Sample Spike

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. GW. Test Contractor CompuChem Laboratories Contract No. 68-01-6881/68-01-6866/701?

Low ✓, Medium

[-----Volatile-----][-----Semi-Volatile-----][Pesticide]

	SMO Traffic No.	Toluene (D8 (50-160)	BFB (50-160)	1,2 Dichloro Ethane-D4 (90-160)	Nitro Benzene-D5 (20-140)	2-Fluoro Biphenyl (20-140)	Terphenyl D14- (20-150)		D10-Pyrene (Lab Optional)	Phenol-D5 (20-140)	2-Fluoro-Phenol (20-140)	2,4,6,Tribromo Phenol (10-140)	Dibutyl Chlorendate (20-150)
MS	50705H	106	97	107	NR	NR	NR		NR	NR	NR	NR	NR
MSD	50705H	109	95	111	NR	NR	NR		NR	NR	NR	NR	NR
MS	50705K	NR	NR	NR	** 82	84	124		131	82	81	84	NR
MSD	50705K	NR	NR	NR	** 73	71	98		97	68	79	67	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 6; outside of QC limits
Semi-Volatiles: 0 out of 12 outside of QC limits
Pesticides: 0 out of 2; outside of QC limits

Comments:

FORM II

Form II. Surrogate Percent Recovery Summary (Soil).

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. GFM.TE Contractor CompuChem Laboratories Contract No. 68-01-6881/68-01-6866

Low ✓ Medium

	[Volatile]				[Semi-Volatile]							[Pesticide]
SMO Traffic No.	Toluene-D8 (50-160)	BFB (50-160)	1,2 Dichloro Ethane-D4 (50-160)	Nitro Benzene-D5 (20-140)	2-Fluoro Biphenyl (20-140)	Terphenyl D14 (20-150)		D10-Pyrene (Lab Optional)	Phenol-D5 (20-140)	2-Fluoro-Phenol (20-140)	2,4,6,Tribromo Phenol (10-140)	Dibutyl Chlorendate (20-150) **
507052	106	91 J	93	92	96	104		95	90	86	93	NR
507054	111	117	116 J	111	112	107		106	100	102	107 J	NR
507056	103 J	95 J	102 J	68	78	85		83	76	70	71 J	NR
507057	120	105 J	114 J	74	81 J	84		79	73	81	69 J	NR
507058	127 J	121 J	125 J	76 J	90	112 J		100	83 J	82	96 J	NR
507059	106	94 J	104	95	100	110		100	94 J	90 J	104 J	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 18; outside of QC limits
Semi-Volatiles: 0 out of 36 outside of QC limits
Pesticides: 0 out of 0; outside of QC limits

Comments:

FORM II

Form II. Surrogate Percent Recovery Summary (soil).

Case No. Gen Test Contractor CompuChem Laboratories Contract No. 68-01-6831/68-01-6866

Low ✓ Medium ____

	[Volatile]			[Semi-Volatile]								[Pesticide]
SMO Traffic No.	Toluene (D8) (50-160)	BFB (50-160)	1,2 Dichloro Ethane-D4 (50-160)	Nitro Benzene-D5 (20-140)	2-Fluoro Biphenyl (20-140)	Terphenyl D14 (20-150)		D10-Pyrene (Lab Optional)	Phenol-D5 (20-140)	2-Fluoro-Phenol (20-140)	2,4,6,Tribromo Phenol (10-140)	Dibutyl Chlorendate (20-150)**
CB50508 MB	103	102	102	NR	NR	NR		NR	NR	NR	NR	NR
CB050507 MB	94	92	82	NR	NR	NR		NR	NR	NR	NR	NR
CB050507 MB	100	104	103	NR	NR	NR		NR	NR	NR	NR	NR
CHQ49912 MB	128	105	102	NR	NR	NR		NR	NR	NR	NR	NR
CHQ49912 MB	98	102	93	NR	NR	NR		NR	NR	NR	NR	NR
49919	NR	NR	NR	90	90	107		106	106	105	89	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 15 outside of QC limits
Semi-Volatiles: 0 out of 6 outside of QC limits
Pesticides: 0 out of 0 outside of QC limits

Comments: ____

FORM II

Form II. Surrogate Percent Reco. / Summary (soil).

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. Gen Test Contractor Compuchem Contract No. _____

Low Level XX Medium Level _____

FRACTION	COMPOUND	CONC SPIKE ADDED (ug)	SAMPLE RESULT	CONC MS	% REC	CONC MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA SMO SAMPLE NO. 50705H	1,1-Dichloroethene	50	9.0 u	42	84	40	80	5	22	59 172
	Trichloroethene	50	9.0 u	39	78	37	74	5	24	62 137
	Chlorobenzene	50	9.0 u	41	82	39	78	5	21	60 133
	Toluene	50	9.0 u	43	86	41	82	5	21	59 139
	Benzene	50	9.0 u	45	90	43	86	5	21	66 142
B/N SMO SAMPLE NO. 50705K	1,2,4-Trichlorobenzene	50	470 u	35	70	33	66	6	23	38 107
	Acenaphthene	50	470 u	38	76	32	64	17	19	31 137
	2,4 Dinitrotoluene	50	470 u	25	50	22	44	13	47	28 89
	D-n Butylphthalate	50	470 u	53	106	40	80	28	47	29 135
	Pyrene	50	470 u	64	128	49	98	27	36	35 142
	N-Nitroso-di-n-Propylamine	50	470 u	38	76	37	74	3	38	41 126
	1,4 Dichlorobenzene	50	470 u	27	54	29	58	7	27	28 104
ACID SMO SAMPLE NO. 50705K	Pentachlorophenol	100	2400 u	70	70	49 J	49	35	47	17 109
	Phenol	100	470 u	74	74	61	61	19	35	26 90
	2-Chlorophenol	100	470 u	80	80	75	75	19	50	25 102
	4-Chloro-3-Methylphenol	100	470 u	78	78	65	65	18	33	26 103
	4-Nitrophenol	100	2400 u	1600 u	— *	1700 u	— *	—	50	11 114
PEST SMO SAMPLE NO. _____	Lindane	6.7							50	46 127
	Heptachlor	6.7							31	35 130
	Aldrin	6.7							43	34 132
	Dieldrin	16.7							38	31 134
	Endrin	16.7							45	42 139
	4,4'-DDT	16.7							50	23 134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs ___ out of 5 outside QC limits
B/N 0 out of 7 outside QC limits
ACID 0 out of 5 outside QC limits
PEST ___ out of 6 outside QC limits

RECOVERY: VOAs ___ out of 10 outside QC limits
B/N 0 out of 14 outside QC limits
ACID 1 out of 10 outside QC limits
PEST ___ out of 12 outside QC limits

Comments: _____

REAGENT BLANK SUMMARY

INSTRUMENT BLANK

Case No. Glen Dent Contractor COMPUCHEM Contract No. 68-01-6866

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (SPECIFIC TIC OR UNKNOWN)	CONC.	UNITS	Q
GC8505080/2	5-8	VOA	S	L	12	75-09-2	methylene Chloride	4.6	ug/kg	—
" "	"	"	"	"	"	67-64-1	Acetone	6.0	ug/kg	—
GB8505072A/2	5-7	"	"	"	"	75-09-2	methylene Chloride	7.1	ug/kg	—
CB8505072C/1	"	"	L	"	11	"	"	4.1	ug/kg	—
	"	"	"	"	"	67-64-1	Acetone	7.2	ug/kg	—

Comments:

REAGENT BLANK SUMMARY

Case No. 6SN. T85 Contractor Compuchem Contract No. 68-01-6784

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (NBS, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
GH049119A15	5-18-85	Silver	Solid	Low	A15	625-86-5	Unknown	370 J	ug/kg	
"						108-88-3	Toluene	1900 J	"	
"						638-04-0	Cycloalkane	750 J	"	
"						15870-10-7	Alkene	600 J	"	
"						6876-23-9	cycloalkane	370 J	"	
"						111-65-9	Alkane	2900 J	"	
"						1678-91-7	Cycloalkane	1800 J	"	
"						123-42-2	Ketone	5100 J	"	
"						1839-63-0	Cycloalkane	480 J	"	
"						3074-71-3	alkane	910 J	"	
"						2216-34-4	"	1900 J	"	
"						2216-33-3	"	2200 J	"	
"						53941-19-8	Cycloalkane	400 J	"	
"						111-84-2	alkane	600 J	"	
"						629-74-3	lab Artifact	2800 J	"	
GH049912	5-7-85	V	S	L	B12	75-09-2	methylene chloride	6.7	"	—
GN049720	5-7-85	V	L	L	A11	75-09-2	methylene chloride	5.2	ug/L	-
"		"		"		67-64-1	acetone	7.6	"	-

Comments:

Page 1

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
68-01-6782

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 15 Date 5/19/85 Time 7:14

Lab ID COMPUCHEM Data Release Authorized By: R. Mairs

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	45.56	
68	less than 2.0% of mass 69	ϕ	( )[1]
69	mass 69 relative abundance	56.20	
70	less than 2.0% of mass 69	.44	(.82)[1]
127	40.0 - 60.0% of mass 198	52.62	
197	less than 1.0% of mass 198	ϕ	
198	base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	7.24	
275	10.0 - 30.0% of mass 198	17.55	
365	greater than 1.00% of mass 198	1.65	
441	present, but less than mass 443	5.62	
442	greater than 40.0% of mass 198	42.72	
443	17.0 - 23.0% of mass 442	8.40	(19.7)[2]

[1]Value in parenthesis is % mass 69.
[2]Value in parenthesis is % mass 443.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	DA850519A15	5/19/85	7:14	875	3017	
	HG850519A15		7:44			
Column	Maint Liner	bestA newInj	Port (cleaned)			
	HA850519A15		7:37			
	SC850519A15		10:35			
55277/307	C504982IA15		11:08			
55277/307	C7049822A15		12:00			
50705K	CA049827A15		12:46			
50705L	CA049818A15		13:34			
50705H	CA049828A15		14:05			

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID Date Time

Lab ID COMPUCHEM Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	
68	less than 2.0% of mass 69	( )[1]
69	mass 69 relative abundance	
70	less than 2.0% of mass 69	( )[1]
127	40.0 - 60.0% of mass 198	
197	less than 1.0% of mass 198	
198	base peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 30.0% of mass 198	
365	greater than 1.00% of mass 198	
441	present, but less than mass 443	
442	greater than 40.0% of mass 198	
443	17.0 - 23.0% of mass 442	( )[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
50705 J	GH049830A15	5-19-85	16:33	S 75	5017	
50705-M	GH049831A15	↓	17:34	↓	↓	
50705-O	GH049959A15	↓	18:32	↓	↓	
50705-N	GH049860A15	↓	19:12	↓	↓	

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
88-01-6762

Case No. Gen. Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 22 Date 5-21-85 Time 17:02

Lab ID COMPUCHEM Data Release Authorized By: BOL

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.82
68	less than 2.0% of mass 69	— (0.00)[1]
69	mass 69 relative abundance	40.21
70	less than 2.0% of mass 69	0.07 (0.17)[1]
127	40.0 - 80.0% of mass 198	41.60
197	less than 1.0% of mass 198	—
198	base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.05
275	10.0 - 30.0% of mass 198	22.16
365	greater than 1.00% of mass 198	2.09
441	present, but less than mass 443	12.00
442	greater than 40.0% of mass 198	91.54
443	17.0 - 23.0% of mass 442	12.17 (16.70)[2]

[1]Value in parenthesis is % mass 69.
[2]Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	DFTPP22B22	5/21/85	17:02	756	217	
	DFTPP22B22	5/21/85	17:41	756	217	
	CALCHK22B22	5/21/85	19:16	756	217	
HSS	GR049774B22	5/21/85	19:51	756	217	
DB506	GR049741B22	5/21/85	21:07	756	217	
DB804	GR049784B22	5/21/85	22:03	756	217	
Blnk #1	GHB51046B22	5/22/85	23:27	756	221	
BB385	GR049470C22	5/22/85	0:04	755	221	
"	GJR49470C22	5/22/85	1:30	755	221	
BLK 1	GH051044C22	5/22/85	2:21	755	221	
	GH051144C22	5/22/85	3:44	755	221	

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 22 Date 5/21/85 Time 11:02

Lab ID COMPUCHEM Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	
68	less than 2.0% of mass 69	( )[1]
69	mass 69 relative abundance	
70	less than 2.0% of mass 69	( )[1]
127	40.0 - 60.0% of mass 198	
197	less than 1.0% of mass 198	
198	base peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 30.0% of mass 198	
365	greater than 1.00% of mass 198	
441	present, but less than mass 443	
442	greater than 40.0% of mass 198	
443	17.0 - 23.0% of mass 442	( )[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
SS	GR04982IC22	5/22/85	4:21	255	J21	
11	GR04982 2C22	5/22/85	5:01	255	J21	

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
68-01-6762

Case No. _____ Contractor COMPUCHEM LABORATORIES Contract No. _____

Instrument ID _____ Date 5-18-85 Time 7:39

Lab ID COMPUCHEM Data Release Authorized By: _____

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.16
68	less than 2.0% of mass 69	0.00 (000)[1]
69	mass 69 relative abundance	69.75
70	less than 2.0% of mass 69	0.00 (.200)[1]
12T	40.0 - 60.0% of mass 198	54.49
197	less than 1.0% of mass 198	.72
198	base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.95
275	10.0 - 30.0% of mass 198	16.65
365	greater than 1.00% of mass 198	1.39
441	present, but less than mass 443	5.24
442	greater than 40.0% of mass 198	41.74
443	17.0 - 23.0% of mass 442	7.85 (18.8)[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
SS						
BL						
EA595						
EB691						
EB595						
EB595						
BL						

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-6764
-6866
-8881

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No. 68-01-6762

Instrument ID 12 Date 5/8/85 Time 5:16 - 17:16

Lab ID COMPUCHEM Data Release Authorized By: [signature] 5/8/85

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	15.7	
75	30.0 - 60.0% of the base peak	44.9	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of the base peak	8.20	
173	less than 1.0% of the base peak	—	
174	Greater than 50.0% of the base peak	91.3	
175	5.0 - 9.0% of mass 174	7.18	(7.86)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	87.4	(95.7)[1]
177	5.0 - 9.0% of mass 176	7.41	(8.48)[2]

[1] Value in parenthesis is % mass 175 / 174
[2] Value in parenthesis is % mass 177 / 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BF850508C12	5/8/85	—	812	128	
	BF850508C12		0225			
	BF850508C12		0253			
	"		0314			
	"		0406			
	"		0445			
	"		0505			
	GB850508C12		0527			
	GB850508C12		0608			
	GC850508C12		0650			
50705 K	GH049827C12		0745			
50705 H	GH049828A12		0834	577		
55	GH049834A12		0947			
50	GH049835A12		1034			

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-6784
-6866
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 12 Date 5/8/85 Time

Lab ID COMPUCHEM Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	
75	30.0 - 60.0% of the base peak	
95	Base peak, 100% relative abundance	
96	5.0 - 9.0% of the base peak	
173	less than 1.0% of the base peak	
174	Greater than 50.0% of the base peak	
175	5.0 - 9.0% of mass 174	( )[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	( )[1]
177	5.0 - 9.0% of mass 176	( )[2]

[1] Value in parenthesis is % mass 69; 174
[2] Value in parenthesis is % mass 440, 1%

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
50705I	GA049829A12	5/8/85	1130	577	128	
50705J	GA049830A12	"	1224	"	"	
50705M	GA049831A12	"	1324	"	"	
50705O	GA049859A12	"	1439	"	"	
none given	GA049860A12	"	1532	"	"	

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-8784
-8866
-8881

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No. 68-01-6762

Instrument ID 12 Date 5/7/85 Time 9:02

Lab ID COMPUCHEM Date Release Authorized By: JS

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	16.35
75	30.0 - 60.0% of the base peak	47.63
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	7.55
173	less than 1.0% of the base peak	—
174	Greater than 50.0% of the base peak	83.44
175	5.0 - 9.0% of mass 174	4.50 (5.39)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	79.37 (95.1)[1]
177	5.0 - 9.0% of mass 176	6.69 (8.4)[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE IO	LAB IO	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BFB50507C12	5/7/85	0832	817	128	
	BFB50507C12		0962	633		
	GBB50507A12		0940	577		
	GS GBB50507A12		1041			
B1	GH049838A12		1150			
DB827	GH049796A12		1251			
DB828	GH049799A12		1344			
DB829	GH049800A12		1433	683		
SS	GH049790A12		1537	577		
SS	GH049791B12		1624	719		
B1	GH049911B12		1716			
50705L	GH049818B12		1832			
	GC850507B12		1932			
B2	GH049912B12		2025			

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-6764
-6860
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 11 Date 5/7/85 Time 04:33 - 16:33

Lab ID COMPUCHEM Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	18.2
75	30.0 - 60.0% of the base peak	48.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of the base peak	8.32
173	less than 1.0% of the base peak	—
174	Greater than 50.0% of the base peak	74.6
175	5.0 - 9.0% of mass 174	6.02 (8.07)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	71.3 (95.6)[1]
177	5.0 - 9.0% of mass 176	6.24 (8.75)[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAE ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BFB50507C11	5/7/85	0424	817	111	
	CB850507C11		0439			
	CS850507C11		0549			
	CT850507C11		0633			
SS	CN049779C4		0731			
SS	CN049780A11		0820	577		
HB1	CN049801A4		0906			
D2241	CN049706A11		0959			
DB459	CN049892A11		1100			
SS	GH049702A4		1154			
SS	CN049703A11		1237			
HB1	CN049720A11		1328			
DB811 HB2	CN049732A11 CN049721A11		1413 1459			
DB813	CN049733A4		1545			

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-6784
-6886
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 11 Date 5/2/85 Time 04:35 - 16:35

Lab ID COMPUCHEM Data Release Authorized By: Ack

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	18.2
75	30.0 - 60.0% of the base peak	48.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of the base peak	8.32
173	less than 1.0% of the base peak	—
174	Greater than 50.0% of the base peak	74.6
175	5.0 - 9.0% of mass 174	6.02 (8.07)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	71.3 (95.6)[1]
177	5.0 - 9.0% of mass 176	6.24 (8.75)[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 443.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BFB50507C11	5/7/85	0424	817	111	
	CBB50507C11		0439			
	CSB50507C11		0549			
	CTB50507C11		0633			
SS	CN049779C4		0731			
SS	CN049780A11		0820	577		
HB1	CN049801A4		0906			
D2241	CN049706A11		0959			
DB459	CN049692A4		1100			
SS	GH049702A4		454			
SS	CN049703A11		1237			
HB1	CN049720A11		1328			
DB511 HB2	CN049732A11 CN049721A11		1425 1459			
DB513 DB514	CN049733A4 CN049734A11		1545 1625	719		

Sample Spike

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. Eng. Test Contractor CompuChem Laboratories Contract No. 68-01-6881/68-01-6866

Low ✓ Medium

[------Volatile------][----------Semi-Volatile----------][Pesticide]

	SMO Traffic No.	Toluene D8 (50-160)	BFB (50-160)	1,2 Dichloro Ethane-D4 (50-160)	Nitro Benzene-D5 (20-140)	2-Fluoro Biphenyl (20-140)	Terphenyl D14 (20-150)		D10-Pyrene (Lab Optional)	Phenol-D5 (20-140)	2-Fluoro-Phenol (20-140)	2,4,6,Tribromo Phenol (10-140)	Dibutyl Chlorendate (20-150) **
S	50705H	106	97	111	NR	NR	NR		NR	NR	NR	NR	NR
D	50705H	109	95	94	NR	NR	NR		NR	NR	NR	NR	NR
S	50705K	NR	NR	NR	82	84	124		131	82	81	84	NR
D	50705K	NR	NR	NR	73	71	98		97	68	79	67	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 6; outside of QC limits
Semi-Volatiles: 0 out of 12; outside of QC limits
Pesticides: 0 out of 0; outside of QC limits

Comments:

FORM II

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. GWTE Contractor CompuChem Laboratories Contract No. 68-01-6831/68-01-6866

Low ✓ Medium

	[Volatile							Semi-Volatile					Pesticide]
SMO Traffic No.	Toluene (D8) (50-160)	BFB (50-160)	1,2 Dichloro Ethane-D4 (50-160)	Nitro Benzene-D5 (20-140)	2-Fluoro Biphenyl (20-140)	Terphenyl D14 (20-150)		OTO-Pyrene (Lab Optional)	Phenol-D5 (20-140)	2-Fluoro-Phenol (20-140)	2,4,6,Tribromo Phenol (10-140)	Dibutyl Chlorendate (20-150) **
50705-C	108	95	102	94	98	138		126	91	89	33	NL
50705-N	110	98	105	88	95	99		90	94	94	78	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 6 outside of QC limits
Semi-Volatiles: 0 out of 12 outside of QC limits
Pesticides: 0 out of 0 outside of QC limits

Comments:

FORM 11

Form II. Surrogate Percent Recovery Summary (soil).

Case No. Ben Test Contractor CompuChem Laboratories Contract No. 68-01-6031/68-01-6006 (7017

Low ✓ Medium

	[Volatile]			[Semi-Volatile]								[Pesticide]
90 Traffic No.	Toluene-D8 (50-160)	BFB (50-160)	1,2 Dichloro Ethane-D4 (50-160)	Nitro Benzene-D5 (20-140)	2-Fluoro Biphenyl (20-140)	Terphenyl D14 (20-150)		D10 Pyrene (Lab Optional)	Phenol-D5 (20-140)	2-Fluoro-Phenol (20-140)	2,4,6 Tribromo Phenol (10-140)	Dibutyl Chlorendate** (20-150)
CB85029 A11	89	94	90	NR	NR	NR		NR	NR	NR	NR	NR
CB85050 C12	103	102	102	NR	NR	NR		NR	NR	NR	NR	NR
CB85050 A12	94	92	82	NR	NR	NR		NR	NR	NR	NR	NR
CWC1994S A11	93	90	88	NR	NR	NR		NR	NR	NR	NR	NR
CH05991 B12	128	105	102	NR	NR	NR		NR	NR	NR	NA	NR
CH05109S B22	NR	NR	NR	99	98	124		114	101	91	109	NR
4999	NR	NR	NR	90	90	107		106	106	105	89	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 15 outside of QC limits
Semi-Volatiles: 0 out of 12 outside of QC limits
Pesticides: 0 out of 0 outside of QC limits

Comments:

FORM II

Form II - Surrogate Percent Recovery Summary (soil).

Case No. Case Test Contractor Compuchem Contract No.

Low Level XX Medium Level

FRACTION	COMPOUND	CONC SPIKE ADDED (ug)	SAMPLE RESULT	CONC MS	% REC	CONC MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA SMO SAMPLE NO. 507051H	1,1-Dichloroethene	50	9.0 U	42	84	40	80	5	22	59 172
	Trichloroethene	50	9.0 U	39	78	37	74	5	24	62 137
	Chlorobenzene	50	9.0 U	41	82	39	78	5	21	60 133
	Toluene	50	9.0 U	43	86	41	82	5	21	59 139
	Benzene	50	9.0 U	45	90	43	86	5	21	66 142
B/N SMO SAMPLE NO. 507051K	1,2,4-Trichlorobenzene	50	470 U	35	70	33	66	6	23	38 107
	Acenaphthene	50	470 U	38	76	32	64	17	19	31 137
	2,4-Dinitrotoluene	50	470 U	25	50	22	44	13	47	28 89
	Di-n-Butylphthalate	50	470 U	53	106	40	80	28	47	29 136
	Pyrene	50	470 U	64	128	49	98	27	36	35 142
	N-Nitrosodi-n-Propylamine	50	470 U	38	76	37	74	3	38	41 126
	1,4-Dichlorobenzene	50	470 U	27	54	29	58	7	27	28 104
ACID SMO SAMPLE NO. 507051K	Pentachlorophenol	100	2400 U	70	70	49 J	49	35	47	17 109
	Phenol	100	470 U	74	74	61	61	19	35	26 90
	2-Chlorophenol	100	470 U	80	80	75	75	9	50	25 102
	4-Chloro-3-Methylphenol	100	470 U	78	78	65	65	18	33	26 103
	4-Nitrophenol	100	2400 U	1000 U	— *	1700 U	— *	—	50	11 114
PEST SMO SAMPLE NO.	Lindane	6.7							50	46 127
	Heptachlor	6.7							31	35 130
	Aldrin	6.7							43	34 132
	Dieldrin	16.7							38	31 134
	Endrin	16.7							45	42 139
	4,4'-DDT	16.7							50	23 134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 0 out of 5 outside QC limits
B/N 5 out of 7 outside QC limits
ACID 0 out of 5 outside QC limits
PEST ___ out of 6 outside QC limits

RECOVERY: VOAs 0 out of 10 outside QC limits
B/N 0 out of 14 outside QC limits
ACID 2 out of 10 outside QC limits
PEST ___ out of 12 outside QC limits

Comments: 4-nitrophenol is currently being spiked at a concentration less than the reportable detection limit according to protocol

Per 6/19/85

4/E

FORM II.

REAGENT BLANK SUMMARY

INSTRUMENT BLANK

Case No. _____ Contractor COMPUCHEM Contract No. 68-01-6866

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	SOIL ID	CAS NUMBER	COMPOUND (SOIL/SC OR WATER)	CONC.	UNITS	Q
CB8505 29 A11	5-29	VBA	L	L	11	75-09-2	Methylene Chloride	3.8	ug/kg	—
CB8505 08 C12	5/8	"	S	L	12	"	" "	4.6	"	—
"	"	"	"	"	"	67-64-1	Acetone	6.0	"	—
CB8505 07 A12	5/2	"	S	L	12	75-09-2	Methylene Chloride	7.2	"	—

Comments:

REAGENT BLANK SUMMARY

Case No. Gen Test Contractor CompuChem Contract No. Platinum

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (NBS, TIC OR LIBRARY)	CONC.	UNITS	Q
GH051045	5-24-85	SV	S	L	B22	17257-79-3	unknown	830	ug/kg	—
"			"			108-88-3	toluene	3500	"	—
"			"			589-43-5	alkane	490	"	—
"			"			624-29-3	cycloalkane	790	"	—
"			"			15870-10-7	alkane	980	"	—
"			"			111-65-9	alkane	4200	"	—
"			"			624-29-3	cycloalkane	690	"	—
"			"			142-92-7	unknown	360	"	—
"			"			921-47-1	alkane	200	"	—
"			"			1072-05-5	alkane	690	"	—
"			"			123-42-2	ketone	8200	"	—
"			"			3074-71-3	alkane	1700	"	—
"			"			921-47-1	alkane	2500	"	—
"			"			2216-33-3	alkane	5800	"	—
"			"			6236-88-0	cycloalkane	520	"	—
"			"			111-84-2	alkane	790	"	—
"			"			111-46-6	unknown	750	"	—
"			"			62016-37-9	hydrocarbon	520	"	—
"			"			609-74-3	lab artifact	4200	"	—

Comments: See QA Notice in Narrative section.

REAGENT BLANK SUMMARY

Case No. GSN. T85-L Contractor [illegible] Contract No. _____

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	SAMP. ID	CAS NUMBER	COMPOUND (NON-TIC OR UNKNOWN)	CONC.	UNITS	C/Q
GH049119HIS	5-18-85	Volw	Solid	Low	H-IS	625-86-5	UNKnown	310 J	ug/kg	—
						108-88-3	Toluene	1900 J	"	—
						638-04-0	Cycloalkane	750 J	"	—
						15870-10-7	Alkene	600 J	"	—
						6876-15-9	cycloalkane	310 J	"	—
						111-65-9	Alkane	2900 J	"	—
						1678-91-7	Cycloalkane	1800 J	"	—
						126-42-2	Ketone	5100 J	"	—
						1839-63-0	Cycloalkane	480 J	"	—
						3074-11-3	alkane	910 J	"	—
						2216-34-4	"	1900 J	"	—
						2216-33-3	"	2200 J	"	—
						53941-19-8	Cycloalkane	400 J	"	—
						111-84-2	alkane	600 J	"	—
"	"	"	"	"	"	627-74-3	Lab Artifact	2800 J		—
GH049912	5/7/85	VOA	SOLID	L	B12	75-09-2	Methylene Chloride	6.7	ug/kg	—
GN049945	5/29/85	"	LIQ.	L	A11	67-64-1	Acetone	98.1	ug/L	—
"	"	"	"	"	"	75-09-2	Methylene Chloride	5.6	"	—

Comments: See QA Notice(s) in Narrative section.

FORM IV

Page 1

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
68-01-6762

Case No. Gen Test   Contractor COMPUCHEM LABORATORIES   Contract No.

Instrument ID 15   Date 5/19/85   Time 7:14

Lab ID COMPUCHEM   Data Release Authorized By: R. Maingi

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.56
68	less than 2.0% of mass 69	ϕ ( )[1]
69	mass 69 relative abundance	56.20
70	less than 2.0% of mass 69	.44 (.82)[1]
127	40.0 - 60.0% of mass 198	52.62
197	less than 1.0% of mass 198	ϕ
198	base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	7.24
275	10.0 - 30.0% of mass 198	17.55
365	greater than 1.00% of mass 198	1.65
441	present, but less than mass 443	5.62
442	greater than 40.0% of mass 198	42.72
443	17.0 - 23.0% of mass 442	8.40 (19.7)[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

out!

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	DA850519A15	5/19/85	7:14	875	3017	
	HG850519A15		7:44			
Column	Maint	Liner, ~~septum~~ new, Inj. Port (CLEANED)				
	HH850519A15		7:37			
	SC850519A15		10:35			
55277/307	G504982/A15		11:08			
55277/307	G704982 2A15		12:00			
50705K	GH049827A15		12:46			
50705L	GH049818A15		13:34			
50705H	GH049828A15		14:05			
50705I	GH049829A15	↓	15:37	↓	↓	

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID Date Time

Lab ID COMPUCHEM Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	
68	less than 2.0% of mass 69	( )[1]
69	mass 69 relative abundance	
70	less than 2.0% of mass 69	( )[1]
127	40.0 - 60.0% of mass 198	
197	less than 1.0% of mass 198	
198	base peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 30.0% of mass 198	
365	greater than 1.00% of mass 198	
441	present, but less than mass 443	
442	greater than 40.0% of mass 198	
443	17.0 - 23.0% of mass 442	( )[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
50705 J	GA049830A15	5-19-85	16:53	BTS	3077	
50705-M	GA049831A15	↓	17:34	↓	↓	
50705-O	GA049959A15	↓	8:32	↓	↓	
50705-N	GA049860A15	↓	19:12	↓	↓	

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
88-01-6762

Case No. _____ Contractor COMPUCHEM LABORATORIES Contract No. _____

Instrument ID _____ Date 5-18-85 Time 7:39

Lab ID COMPUCHEM Data Release Authorized By: _____

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.16
68	less than 2.0% of mass 69	6.00 (10.00)[1]
69	mass 69 relative abundance	69.75
70	less than 2.0% of mass 69	0.00 (0.00)[1]
127	40.0 - 60.0% of mass 198	54.49
197	less than 1.0% of mass 198	.72
198	base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.95
275	10.0 - 30.0% of mass 198	16.65
365	greater than 1.00% of mass 198	1.39
441	present, but less than mass 443	5.24
442	greater than 40.0% of mass 198	41.74
443	17.0 - 23.0% of mass 442	7.85 (18.8)[2]

[1]Value in parenthesis is % mass 69.
[2]Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	GHBC0518A15	5-18-85	7:39	876	3017	
	GHBC0518A17		7:51			
	GHBC0518A15		9:20			
	GCBC0518A15		10:50			
SS	GHC049750A15		11:41			
B1	GBC0494 16A15		12:30			
E8595	GHC049288A15					
E8596	GHC049289A15					
E8595	GHC049291A15		16:37	875		
E8599	GHC049292A15		16:23			
B1S	GHC049294A15		17:10			
	GHC049822A15		17:24			

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 22 Date 5/24/85 Time 10:19

Lab ID COMPUCHEM Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.75
68	less than 2.0% of mass 69	— ( )[1]
69	mass 69 relative abundance	58.31
70	less than 2.0% of mass 69	— ( )[1]
127	40.0 - 60.0% of mass 198	44.64
197	less than 1.0% of mass 198	—
198	base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.01
275	10.0 - 30.0% of mass 198	22.08
365	greater than 1.00% of mass 198	1.85
441	present, but less than mass 443	10.51
442	greater than 40.0% of mass 198	82.83
443	17.0 - 23.0% of mass 442	14.47 17.46

[1]Value in parenthesis is % mass 69.
[2]Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	DH850524A22	5/24/85			2875	
	DH850524A22	5/24/85			2875	
	DH850524A22	5/24/85			2875	
	HG000160A22	5/24/85		683	2875	
	HG000020A22	5/24/85	11:40	683	2875	
	HG000126A22	5/24/85	12:30	683	2875	
	HG000050A22	5/24/85		683	2875	
	HG000080A22	5/24/85	14:24	683	2875	
	HG850524A22	5/24/85	18:25	802	2875	
	SEMICHEK822	5/24/85		802	2875	
BLANK	GH850524B22	5/24/85	21:10	802	2875	

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6866
-6881
68-01-6782

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 22 Date 5/24/85 Time 10:19

Lab ID COMPUCHEM Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	
68	less than 2.0% of mass 69	( )[1]
69	mass 69 relative abundance	
70	less than 2.0% of mass 69	( )[1]
127	40.0 - 60.0% of mass 198	
197	less than 1.0% of mass 198	
198	base peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 30.0% of mass 198	
365	greater than 1.00% of mass 198	
441	present, but less than mass 443	
442	greater than 40.0% of mass 198	
443	17.0 - 23.0% of mass 442	( )[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
BLANK	GH050821B22	5/24/85	21:45	802	2875	
BB596	GH050463B22	5/24/85		802	2875	

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

-6784
-6886
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 22 Date 5-21-85 Time 17:02

Lab ID COMPUCHEM Data Release Authorized By: BOL

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.82
68	less than 2.0% of mass 69	— (0.00)[1]
69	mass 69 relative abundance	40.21
70	less than 2.0% of mass 69	0.07 (0.17)[1]
127	40.0 - 60.0% of mass 198	41.60
197	less than 1.0% of mass 198	—
198	base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.05
275	10.0 - 30.0% of mass 198	22.16
365	greater than 1.00% of mass 198	2.09
441	present, but less than mass 443	12.00
442	greater than 40.0% of mass 198	91.54
443	17.0 - 23.0% of mass 442	17.17 (18.76)[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

Both

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	DFTPP2 B22	5/21/85	17:02	756	217	
	VBBLK05052 B22	5/21/85	17:41	756	217	
	CALCHK B22	5/21/85	19:16	756	217	
HSS	GR049774B22	5/21/85	19:51	756	217	
DB5.06	GR049741B22	5/21/85	21:07	756	217	
DB624	GR049784B22	5/21/85	22:03	756	217	
BNA L#1	GH05104B22	5/21/85	23:27	756	221	
BB 385	GR049470C22	5/22/85	0:24	755	221	
"	GJR49470C22	5/22/85	1:30	755	221	
BLK 1	GH05104C22	5/22/85	2:21	755	221	
BNA #2	GH05105C22	5/22/85	3:00	755	221	

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Page 2 of 2

-6784
-6866
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID J2 Date 5/21/85 Time 11:02

Lab ID COMPUCHEM Date Release Authorized By: BDL/IW

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	
68	less than 2.0% of mass 69	( )[1]
69	mass 69 relative abundance	
70	less than 2.0% of mass 69	( )[1]
127	40.0 - 60.0% of mass 198	
197	less than 1.0% of mass 198	
198	base peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 30.0% of mass 198	
365	greater than 1.00% of mass 198	
441	present, but less than mass 443	
442	greater than 40.0% of mass 198	
443	17.0 - 23.0% of mass 442	( )[2]

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
SS	GR04982IC22	5/22/85	1121	255	J21	
11	GR04982 2C22	5/22/85	501	255	J21	

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-6784
-6866
-6881

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No. 68-01-6762

Instrument ID 11 Date 5/29/85 Time 7:29 - 19:29

Lab ID COMPUCHEM Data Release Authorized By: [signature] 5/29/85

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	22.6	
75	30.0 - 60.0% of the base peak	55.2	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of the base peak	6.15	
173	less than 1.0% of the base peak	—	
174	Greater than 50.0% of the base peak	66.7	
175	5.0 - 9.0% of mass 174	3.60	(5.40)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	65.9	(98.8)[1]
177	5.0 - 9.0% of mass 176	3.66	(5.5)[2]

[1] Value in parenthesis is % mass 174
[2] Value in parenthesis is % mass 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BF850529C11	5/29/85	0659	812	115	
	BF850529C11		0718			
	CB850529C11		0747			
	CB850529A11		0847	577		
	CS850529A11		0948			
ITB1	CVD49944A11		1056			
BD074	CN051338A11		1149			
ITB2	CN049945A11		1233			
BD077	CN051349A11		1315			
BD078	CN051350A11		1359			
BD079	CN051351A11		1445			
SS	CN051347A11		1545			
SS ITB1	CN051348B11 CN051370B11		1629 1730	719		
AB300 AB300	CN051470B11 CN051470BD11		1825 1915			

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-6784
-6866
-6881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 12 Date 5/8/85 Time 5:16 - 17:16

Lab ID COMPUCHEM Data Release Authorized By: 5/8/85

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	15.7
75	30.0 - 60.0% of the base peak	44.9
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	8.20
173	less than 1.0% of the base peak	—
174	Greater than 50.0% of the base peak	91.3
176	5.0 - 9.0% of mass 174	7.18 (7.86)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	87.4 (95.7)[1]
177	5.0 - 9.0% of mass 176	7.41 (8.48)[2]

[1] Value in parenthesis is % mass 95 / 174
[2] Value in parenthesis is % mass 177 / 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BFB50508C12	5/8/85	—	812	128	
	BFB50508C12		0225			
	BFB50508C12		0253			
	"		0314			
	"		0406			
	"		0445			
	"		0505			
	GBB50508C12		0527			
	GBB50508C12		0608			
	GCB50508C12		0650			
50705 K	GH04 9827C12		0745			
50705 H	GH049828A12		0836	577		
55	GH049824A12		0947			
55	GH049825A12		1034			

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-8784
-8866
-8881
68-01-6762

Case No. Gen Test Contractor COMPUCHEM LABORATORIES Contract No.

Instrument ID 12 Date 5/8/85 Time

Lab ID COMPUCHEM Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	
75	30.0 - 60.0% of the base peak	
95	Base peak, 100% relative abundance	
96	5.0 - 9.0% of the base peak	
173	less than 1.0% of the base peak	
174	Greater than 50.0% of the base peak	
175	5.0 - 9.0% of mass 174	( )[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	( )[1]
177	5.0 - 9.0% of mass 176	( )[2]

[1] Value in parenthesis is % mass 95. 174
[2] Value in parenthesis is % mass 442. 174

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
50705I	GH049829A12	5/8/85	1130	577	128	
50705J	GH049830A12	"	1224	"	"	
50705M	GH049831A12	"	1324	"	"	
50705D	GH049859A12	"	1439	"	"	
none given	GH049860A12	"	1532	"	"	

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

-6784
-6866
-6981

Case No. _____ Contractor COMPUCHEM LABORATORIES Contract No. 68-01-6702

Instrument ID 12 Date 6 5/7/85 Time 9:02

Lab ID COMPUCHEM Data Release Authorized By: _____

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	16.39
75	30.0 - 60.0% of the base peak	47.63
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	7.55
173	less than 1.0% of the base peak	—
174	Greater than 50.0% of the base peak	83.54
175	5.0 - 9.0% of mass 174	4.50 (5.39)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	79.37 (95.1)[1]
177	5.0 - 9.0% of mass 176	6.69 (8.42)[2]

[1] Value in parentheses is % mass 69.
[2] Value in parentheses is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BFB50507C12	5/7/85	0832	817	128	
	BFB50507C12		0902	633		
	GBB50507A12		0940	577		
	QS GBB50507A12		1041			
B1	GH049836A12		1150			
DB627	GH049796A12		1251			
DB628	GH049799A12		1344			
DB629	GH049800A12		1433	633		
SS	GH049790A12		1537	577		
SS	GH049791B12		1624	719		
B1	GH049911B12		1716			
50705L	GH049818B12		1832			
	GC850507B12		1932			
B2	GH049912B12		2025			

VOLATILE COMPOUNDS DETECTION LIMIT STUDY - AMENDED JANUARY 15, 1985

NAME	MEAN	STD. DEV.	3 x STD. DEV (Converted to ug/L) Inst. DET. Limit
Bromochloromethane (IS)	-----	--------	ug/L
Chloromethane	105874	19930	28
Bromomethane	149468	16890	17
Vinyl Chloride	124730	14679	18
Chloroethane	64814	5398	12
Methylene Chloride	121772	14054	17
Acetone (2-Propanone)	22417	1979	13
Carbon Disulfide	355229	51739	22
1,1-Dichloroethylene	116890	14657	19
1,1-Dichloroethane	216032	26269	18
Trans -1,2 -Dichloroethylene	111789	15069	20
Chloroform	261539	29277	17
1,2-Dichloroethane	181477	16957	14
1,4 Difluorobenzene (Internal Std)	------	-----	--
2-Butanone	12072	1374	17
1,1,1-Trichloroethane	195419	23281	18
Carbon Tetrachloride	201317	17824	13
Vinyl Acetate	199598	23864	18
Bromodichloromethane	230138	26399	17
1,2-Dichloropropane	158286	16219	15
Trans-1,3-Dichloropropene	196807	24068	18
Trichloroethylene	173661	15429	13
Chlorodibromomethane	195098	15979	12
1,1,2-Trichloroethane	137818	11975	13
Benzene	381933	26886	10
CIS-1,3-Dichloropropene	164184	14236	13
2-Chloroethyl Vinyl Ether	87902	12117	21
Bromoform	130767	8839	10
D5 Chlorobenzene (Internal Std.)	------	-------	--
2-Hexanone	114919	13303	17
4-Methyl-2-Pentanone	82333	9210	17
Tetrachloroethene	158468	14255	13
1,1.2,2-Tetrachloroethane	186826	15490	12
Toluene	247542	27182	16
Chlorobenzene	338123	25840	11
Ethylbenzene	173342	13736	12
Styrene	366700	34503	14
M-Xylene	230196	21856	14
O- & P-Xylene	451397	42601	28
D4-1,2-Dichloroethane	------	-------	--
Bromofluorobenzene	------	-------	--
D8-Toluene	------	-------	--

COMPOUND NAME	HJ341108A07	HG841109A07	HG841109A07	AVERAGE	SD	DET. LIMIT
N-NITROSODIMETHYLAMINE	48.17	56.96	61.22	55.45	6.65	19.96
PHENOL	57.05	63.22	67.03	62.43	5.04	15.11
ANILINE	160.25	29.07	199.26	129.53	89.16	267.47
BIS (2-CHLOROETHYL) ETHER	54.16	62.50	64.62	60.43	5.53	16.59
2-CHLOROPHENOL	50.61	53.49	53.81	52.64	1.76	5.29
1,3-DICHLOROBENZENE	52.27	52.12	50.44	51.61	1.02	3.05
1,4-DICHLOROBENZENE	47.99	47.89	49.19	48.36	.72	2.17
BENZYL ALCOHOL	56.67	61.49	66.09	61.42	4.71	14.13
1,2-DICHLOROBENZENE	50.81	50.09	49.83	50.24	.51	1.52
2-METHYL PHENOL	55.01	59.12	62.16	58.76	3.59	10.76
BIS (2-CHLOROISOPROPYL) ETHER	57.35	68.43	82.33	69.37	12.52	37.55
4-METHYL PHENOL	57.47	61.03	64.78	61.09	3.66	10.97
N-NITROSO-DI-N-PROPYLAMINE	60.88	70.62	78.11	69.87	8.64	25.92
HEXACHLOROETHANE	50.74	54.79	58.26	54.60	3.76	11.29
NITROBENZENE	58.22	66.53	76.43	67.06	9.12	27.35
ISOPHORONE	55.91	61.23	68.33	61.82	6.23	18.69
2-NITROPHENOL	56.10	55.20	54.34	55.21	.88	2.64
2,4-DIMETHYLPHENOL	49.05	49.10	50.38	49.51	.75	2.26
BENZOIC ACID	59.06	65.41	56.17	60.21	4.73	14.18
BIS (2-CHLOROETHOXY)METHANE	56.65	61.61	66.32	61.53	4.84	14.51
2,4-DICHLOROPHENOL	49.45	43.97	44.34	45.92	3.06	9.19
1,2,4-TRICHLOROBENZENE	48.88	45.11	41.13	45.04	3.88	11.63
NAPTHALENE	48.65	49.08	51.57	49.77	1.58	4.73
4-CHLORO-ANILINE	147.80	366.94	295.16	269.97	111.72	335.16
HEXACHLOROBUTADIENE	48.02	45.04	41.21	44.76	3.41	10.24
P-CHLORO-M-CRESOL	54.10	58.37	66.57	59.68	6.34	19.01
2-METHYLNAPTHALENE	47.89	48.45	49.74	48.69	.95	2.85
HEXACHLOROCYCLOPENTADIENE	50.81	48.44	45.21	48.15	2.81	8.43
2,4,6-TRICHLOROPHENOL	46.76	89.77	87.31	74.61	24.15	72.46
2,4,5-TRICHLOROPHENOL	51.22	49.32	75.61	58.72	14.66	43.98
2-CHLORONAPTHALENE	49.41	51.48	50.02	50.30	1.06	3.19
2-NITROANILINE	58.06	77.80	94.21	76.69	18.10	54.30
DIMETHYL PHTHALATE	49.40	50.53	52.38	50.77	1.50	4.51
ACENAPTHYLENE	48.20	48.60	50.98	49.26	1.50	4.51
3-NITROANILINE	59.97	100.34	109.27	89.86	26.27	78.80
ACENAPTHENE	49.26	49.81	52.45	50.51	1.71	5.12
2,4-DINITROPHENOL	58.03	73.55	55.02	62.20	9.94	29.83
4-NITROPHENOL	55.17	58.34	59.21	57.57	2.13	6.38
DIBENZOFURAN	49.86	48.17	50.09	49.37	1.05	3.15
2,4-DINITROTOLUENE	53.73	70.50	81.28	68.50	13.88	41.65
2,6-DINITROTOLUENE	51.99	54.01	55.81	53.94	1.91	5.73
DIETHYL PHTHLATE	50.41	53.95	56.95	53.77	3.27	9.82
4-CHLOROPHENYL-PHENYL ETHER	47.25	45.80	44.13	45.73	1.56	4.68
FLUORENE	48.32	48.44	47.21	47.99	.68	2.03
4-NITROANILINE	48.98	50.50	64.43	54.64	8.52	25.55
4,6-DINITRO-2-METHYLPHENOL	55.00	74.41	55.86	61.76	10.97	32.90
N-NITROSODIPHENYLAMINE	45.87	57.67	53.89	52.48	6.03	18.08
4-BROMOPHENLY PHENYL ETHER	48.81	47.92	45.04	47.26	1.97	5.91
HEXACHLOROBENZENE	48.02	48.65	45.42	47.36	1.71	5.14
PENTACHLOROPHENOL	44.01	59.36	44.90	49.42	8.62	25.85

(cont'd)

PHENANTHRENE	49.10	47.27	48.55	48.31	.94	2.82
ANTHRACENE	48.55	49.12	49.36	49.01	.42	1.25
DI-N-BUTYL PHTHALATE	50.07	65.50	62.49	59.35	8.18	24.54
FLUORANTHENE	45.76	44.84	48.03	46.21	1.64	4.93
BENZIDINE	52.78	63.55	53.49	56.61	6.02	18.07
PYRENE	48.32	54.08	48.62	50.34	3.24	9.73
BUTYLBENZYL PHTHALATE	54.75	72.04	68.35	65.05	9.11	27.32
3,3 DICHLOROBENZIDINE	72.36	46.11	48.61	55.69	14.49	43.46
BENZO(A)ANTHRACENE	50.39	50.78	42.53	47.90	4.65	13.96
BIS-(2-ETHYLHEXYL) PHTHALATE	50.83	68.65	60.28	59.92	8.92	26.75
CHRYSENE	48.76	60.20	50.41	53.12	6.18	18.55
DI-N-OCTYL PHTHALATE	52.96	82.13	52.78	62.62	16.89	50.68
BENZO(B)FLUORANTHENE	48.83	53.17	52.15	51.38	2.27	6.81
BENZO(K)FLUORNTHENE	44.42	53.17	46.66	48.08	4.55	13.64
BENZO(A)PYRENE	50.36	49.26	48.90	49.51	.76	2.28

MINIMUM INSTUMENT DETECTION LEVEL BY THREE STANDARD INJECTIONS

The following data was obtained by making three injections of pesticide PCB standards over the course of 24 hours. The areas of single peak pesticides was calculated by the HP LAS data system. The area for the multi peak pesticides and PCBs was calculated by summing the areas of the peaks.
The instrument detection level was calculated as follows:

Det level = ((3 * SD)/ Mean) * conc of std
EXAMPLE Gamma BHC Det level = ((3 * 18.5)/ 956) * 0.03ug/ml = 0.00098ug/ml
The column tested was a 1.5% SP2250/ 1.95% SP2401 2m x 4mm column run isothermally in a Varian 3700 GC with EC detector.

Two data points are missing because there was a bad injection for the first run of the standard containing Arochlor 1016 and 1260. These Archlors were calculated on the basis of two injections.

COMPOUND	CONC STD	AREA 1	AREA 2	AREA 3	MEAN AREA	SD	INST. DET. LEVEL
STD 4360							
GAMMA BHC	.01	968	966	935	956	18.5	0.00058
HEPTACHLOR	.01	925	957	891	924	33.0	0.00107
ALDRIN	.01	998	1004	969	990	18.7	0.00059
GAMMA CHLOR	.01	885	874	903	887	14.6	0.00049
ENDOSULFAN I	.02	1660	1650	1620	1643	20.8	0.00076
DIELORIN	.02	1894	1915	1855	1888	30.4	0.00097
ENDOSULFAN II	.04	2362	2241	2332	2312	63.0	0.00327
PP'ODT	.06	2518	2558	2505	2527	27.6	0.00197
METHOXYCHLOR	.05	942	957	940	946	9.29	0.00147
STO 4364							
ALPHA BHC	.01	1135	1132	1079	1115	31.5	0.00085
BETA BHC	.02	741	737	713	730	15.1	0.00124
OELTA BHC	.01	772	857	691	773	83.0	0.00322
HEPT. EPOXIDE	.01	860	857	942	886	48.2	0.00163
ALPHA CHLOR	.02	1652	1643	1584	1826	36.9	0.00136
PP'DOE	.02	1615	1612	1566	1598	27.3	0.00103
ENDRIN	.04	1304	1287	1256	1282	24.3	0.00228
PP'OOD	.04	2310	2277	2232	2273	39.1	0.00206
ENDRIN ALDEHYOE	.04	3419	3371	3173	3321	130	0.00589
ENDO. SULFATE	.04	733	691	516	647	115	0.02669
ENORIN KEYTONE	.10	6276	6613	5780	6223	419	0.02020
MULTI PEAKS PESTS							
TOXAPHENE	1.0	7093	9856	6715	6888	191	0.0832
TECH. CHLOROANE	.20	3357	3157	3280	3265	101	0.0186
AROCHLORS							
1221	1.0	2383	2320	2323	2342	25.5	0.0455
1232	.70	3313	3218	3261	3264	47.6	0.0306
1016	.30	NA	2495	2472	2483	16.3	0.0059
1242	.40	3358	3297	3295	3317	35.8	0.0129
1248	.40	5266	5044	5097	5136	116	0.0291
1254	.30	6449	6277	6217	6314	120	0.0192
1260	.30	NA	9515	10170	9842	463	0.0423

PESTICIDE GC/MS INSTRUMENT DETECTION LIMIT STUDY

COMPOUND	RUN 1	RUN2	RUN3	AVERAGE	STANDARD DEVIATION	DET LIMIT (NG)
PCB 1248	214592	361856	268928	281792	108319	115
PCB 1221	864544	602048	714496	727029	261315	109
PCB 1242	359840	487744	471424	439669	167105	114
PCB 1260	45760	82464	63968	64064	26061	122
PCB 1232	229120	155520	213504	199381	77894	117
BETA BHC	438752	531616	788032	586133	301361	154
ENDRIN	104128	126464	191232	140608	73674	157
DDD	13111350	1660510	2606070	5792643	5261689	273
ENDOSULFAN SULF	182144	213312	347104	247520	136041	165
GAMMA CHLORDANE	438848	482336	892896	604693	361151	179
PCB 1254	128416	137696	138324	134912	46437	103
TOXAPHENE	1102230	619744	54848	592274	428423	217
GAMMA BHC	507232	455904	513184	492107	172983	105
DELTA BHC	347904	301984	325024	324971	109951	102
HEPTACHLOR EPOX	162432	139776	160224	154144	54373	106
ENDOSULFAN I	100992	80544	99040	93525	34275	110
ENDOSULFAN II	9984	8738	10848	9856	3718	113
DDE	606368	515200	582208	567925	197864	105
ALDRIN	957152	700064	1049370	902195	379735	126
ENDRIN ALDEHYDE	449280	419648	596160	488363	213181	131
ENDRIN KEYTONE	66624	65856	91104	74528	32553	131
METHOXYCHLOR	960608	955744	1286200	1067517	455771	128

Initial Calibration Data
Volatile HSL Compounds

Case No: Gen. Test
Contractor: CompuChem Laboratories
Contract No.

Instrument ID : GCA 011
Calibration Date : 05/01/85

Minimum Avg RF for SPCC is 0.300

Maximum %RSD for CCC is 30%

Laboratory ID	CV050501B11	CV050501B11	CV050501B11	CV050501B11	CV050501B11			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	Avg RF	%RSD	CCC * SPCC **
METHYL CHLORIDE	2.933	2.172	1.930	2.012	1.696	2.149	21.925	* *
METHYL BROMIDE	3.713	2.704	2.357	2.929	2.351	2.731	20.794	
VINYL CHLORIDE	2.974	2.218	1.882	2.049	1.934	2.212	20.142	*
CHLOROETHANE	1.595	1.168	.999	1.069	.998	1.166	21.402	
METHYLENE CHLORIDE	2.760	2.171	1.756	1.677	1.623	1.997	23.918	
ACETONE (2-PROPANONE)	.554	.381	.302	.307	.302	0.369	29.450	
CARBON DISULFIDE	6.117	3.701	4.034	4.329	4.321	4.499	20.837	
1,1-DICHLOROETHYLENE	1.518	1.430	1.226	1.286	1.279	1.349	8.984	*
1,1-DICHLOROETHANE	2.848	2.646	2.162	2.112	2.198	2.393	13.874	* *
1,2-TRANS-DICHLOROETHYLENE	1.670	1.586	1.327	1.270	1.334	1.437	12.405	
CHLOROFORM	4.172	3.799	3.186	3.092	3.118	3.473	14.017	*
1,2-DICHLOROETHANE	2.963	2.738	2.240	2.154	2.132	2.445	15.551	
2-BUTANONE	.027	.020	.015	.016	.016	0.019	25.924	
1,1,1-TRICHLOROETHANE	.569	.542	.431	.412	.423	0.476	15.557	
CARBON TETRACHLORIDE	.608	.598	.490	.464	.478	0.526	13.523	
VINYL ACETATE	.482	.452	.376	.410	.459	0.436	9.710	
BROMODICHLOROMETHANE	.655	.642	.520	.516	.522	0.570	12.637	
1,2-DICHLOROPROPANE	.342	.326	.269	.263	.279	0.296	12.119	*
TRANS-1,3-DICHLOROPROPYLENE	.227	.219	.192	.174	.193	0.201	10.913	
TRICHLOROETHYLENE	.592	.549	.454	.428	.426	0.490	15.513	
CHLORODIBROMOMETHANE	.660	.658	.561	.542	.543	0.593	10.249	
1,1,2-TRICHLOROETHANE	.388	.385	.329	.319	.321	0.348	10.058	
BENZENE	1.041	1.036	.859	.834	.850	0.924	11.349	
CIS-1,3-DICHLOROPROPYLENE	.819	.845	.712	.706	.737	0.764	8.375	
2-CHLOROETHYLVINYL ETHER	.152	.146	.136	.137	.139	0.142	4.805	
BROMOFORM	.436	.427	.389	.390	.400	0.409	5.326	* *
2-HEXANONE	.253	.215	.176	.189	.205	0.207	14.196	
4-METHYL-2-PENTANONE	.171	.139	.114	.127	.137	0.137	15.280	
TETRACHLOROETHYLENE	.656	.580	.501	.468	.464	0.534	15.626	
1,1,2,2-TETRACHLOROETHANE	.505	.469	.411	.412	.416	0.443	9.591	* *
TOLUENE	.877	.792	.656	.621	.622	0.713	16.136	*
CHLOROBENZENE	1.395	1.225	1.006	.947	.932	1.101	18.351	* *
ETHYLBENZENE	.734	.648	.523	.494	.487	0.577	18.901	*
STYRENE	1.805	1.516	1.188	1.196	1.107	1.378	20.102	
TOTAL XYLENES	1.233	1.034	.787	.796	.788	0.928	21.653	

RF - Response Factor (subscript is the amount of ug/L)
RF - Average Response Factor
%RSD - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Volatile HSL Compounds

Case No: Gen. Test
Contractor: CompuChem Laboratories
Contract No.

Instrument ID : GWA 812
Calibration Date : 05/09/85

Minimum Avg RF for SPCC is 0.300

Maximum %RSD for CCC is 30%

Laboratory ID	CW850509A12	CT850509A12	CV850509A12	CM850509A12	CX850509A12			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	Avg RF	%RSD	CCC * SPCC **
METHYL CHLORIDE	.841	.714	.809	.625	.705	0.739	11.763	* *
METHYL BROMIDE	1.409	1.126	1.273	1.192	1.221	1.244	8.541	
VINYL CHLORIDE	1.089	.890	1.024	.906	.972	0.976	8.480	*
CHLOROETHANE	.569	.499	.538	.477	.522	0.519	7.181	
METHYLENE CHLORIDE	1.046	.817	1.007	1.021	.890	0.956	10.276	
ACETONE (2-PROPANONE)	.331	.194	.206	.176	.140	0.209	34.603	
CARBON DISULFIDE	2.995	2.636	2.931	2.506	2.752	2.764	7.326	
1,1-DICHLOROETHYLENE	.841	.779	1.037	1.029	.889	0.914	12.395	*
1,1-DICHLOROETHANE	1.570	1.365	1.872	1.886	1.607	1.660	13.270	* *
1,2-TRANS-DICHLOROETHYLENE	.894	.805	1.068	1.055	.907	0.946	11.942	
CHLOROFORM	2.083	1.802	2.440	2.483	2.084	2.178	13.007	*
1,2-DICHLOROETHANE	1.378	1.208	1.640	1.649	1.321	1.439	13.718	
2-BUTANONE	.030	.023	.023	.021	.015	0.023	24.666	
1,1,1-TRICHLOROETHANE	.418	.384	.495	.497	.416	0.442	11.554	
CARBON TETRACHLORIDE	.445	.409	.524	.517	.429	0.465	11.339	
YL ACETATE	.450	.375	.395	.344	.307	0.374	14.383	
LOROBROMOMETHANE	.481	.434	.565	.585	.475	0.508	12.685	
1,2-DICHLOROPROPANE	.284	.250	.320	.324	.267	0.289	11.297	*
TRANS-1,3-DICHLOROPROPYLENE	.189	.171	.226	.235	.190	0.202	13.398	
TRICHLOROETHYLENE	.426	.372	.451	.426	.348	0.405	10.578	
CHLORODIBROMOMETHANE	.455	.401	.491	.489	.384	0.444	11.136	
1,1,2-TRICHLOROETHANE	.287	.242	.282	.276	.207	0.259	13.051	
BENZENE	.614	.518	.633	.623	.512	0.580	10.283	
CIS-1,3-DICHLOROPROPYLENE	.559	.467	.609	.620	.479	0.551	12.034	
2-CHLOROETHYLVINYL ETHER	.154	.145	.195	.207	.146	0.169	17.257	
BROMOFORM	.365	.348	.499	.511	.355	0.416	19.219	* *
2-HEXANONE	.283	.243	.285	.272	.210	0.258	12.415	
4-METHYL-2-PENTANONE	.195	.159	.191	.176	.129	0.170	15.815	
TETRACHLOROETHYLENE	.446	.396	.528	.497	.414	0.456	12.165	
1,1,2,2-TETRACHLOROETHANE	.432	.379	.492	.488	.328	0.424	16.695	* *
TOLUENE	.502	.444	.587	.588	.487	0.522	12.219	*
CHLOROBENZENE	.900	.703	.919	.920	.761	0.821	11.767	* *
ETHYLBENZENE	.428	.380	.493	.491	.407	0.440	11.453	*
STYRENE	1.293	1.073	1.165	1.040	1.026	1.113	10.506	
TOTAL XYLENES	.749	.609	.666	.571	.508	0.637	11.405	

RF - Response Factor (subscript is the amount of ug/L)
RF - Average Response Factor
%SD - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Semivolatile GC/MS Compounds
(Page 1)

Case No: Gen-Test
Contractor: CompuChem Laboratories
Contract No.

Instrument ID : DFA #16
Calibration Date : 05/17/95

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MC000020A16	MB050517A16	MB050517D16	MC050517B16	MC000160A16			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
N-NITROSODIMETHYLAMINE	1.173	1.348	1.209	1.173	1.293	1.239	6.316	
PHENOL	2.356	2.504	2.385	2.268	2.265	2.372	5.45-	*
ANILINE	2.506	2.290	2.485	2.045	2.121	2.289	9.097	
BIS (2-CHLOROETHYL) ETHER	2.050	2.114	1.894	1.901	1.962	1.984	4.832	
2-CHLOROPHENOL	1.542	1.588	1.495	1.479	1.489	1.519	3.023	
1,3-DICHLOROBENZENE	1.658	1.595	1.561	1.527	1.404	1.549	6.091	
1,4-DICHLOROBENZENE	1.869	1.691	1.705	1.696	1.516	1.696	7.377	*
BENZYL ALCOHOL	1.025	1.056	1.013	.968	1.108	1.034	5.048	
1,2-DICHLOROBENZENE	1.601	1.529	1.485	1.543	1.352	1.518	7.763	
O-CRESOL	1.507	1.479	1.359	1.336	1.421	1.420	5.200	
BIS (2-CHLOROISOPROPYL) ETHER	2.831	3.067	2.683	2.735	3.142	2.892	7.025	
P-CRESOL	1.581	1.611	1.501	1.491	1.506	1.538	3.535	
N-NITROSODI-N-PROPYLAMINE	1.268	1.442	1.233	1.244	1.380	1.313	7.072	* *
HEXACHLOROETHANE	.830	.782	.744	.772	.725	0.771	5.226	
NITROBENZENE	1.636	1.638	1.643	1.618	1.737	1.658	2.785	
ISOPHORONE	.806	.907	.842	.822	.852	0.846	4.552	
2-NITROPHENOL	.186	.205	.192	.194	.197	0.195	3.530	*
2,4-DIMETHYLPHENOL	.330	.352	.333	.317	.367	0.340	5.847	
BIS (2-CHLOROETHOXY) METHANE	.463	.533	.505	.477	.508	0.497	5.600	
BENZOIC ACID	.047	.167	.145	.144	.107	0.138	39.003	
2,4-DICHLOROPHENOL	.228	.255	.242	.238	.237	0.240	4.126	
1,2,4-TRICHLOROBENZENE	.260	.270	.266	.265	.232	0.260	6.013	
NAPHTHALENE	1.175	1.184	1.124	1.073	.845	1.064	12.024	
4-CHLOROANILINE	.388	.471	.451	.416	.429	0.431	7.382	
HEXACHLOROBUTADIENE	.133	.126	.135	.130	.111	0.127	7.417	*
P-CHLORO-M-CRESOL	.283	.329	.311	.297	.318	0.307	5.865	*
2-METHYLNAPHTHALENE	.648	.683	.586	.555	.508	0.580	9.041	
HEXACHLOROCYCLOPENTADIENE	.282	.305	.305	.342	.293	0.305	7.332	* *
2,4,6-TRICHLOROPHENOL	.316	.345	.342	.318	.296	0.324	6.281	*
2,4,5-TRICHLOROPHENOL	.316	.345	.342	.318	.296	0.324	6.281	
2-CHLORONAPHTHALENE	1.385	1.298	1.282	1.226	1.183	1.275	6.012	
2-NITROANILINE	.321	.434	.382	.339	.457	0.386	15.169	
DIMETHYL PHTHALATE	1.385	1.318	1.283	1.241	1.141	1.274	7.154	
ACENAPHTHYLENE	2.197	2.065	2.031	1.894	1.674	1.972	10.061	
3-NITROANILINE	.282	.382	.328	.304	.365	0.332	12.446	
ACENAPHTHENE	1.491	1.397	1.382	1.265	1.203	1.330	8.448	*
2,4-DINITROPHENOL	.037	.087	.075	.074	.123	0.079	39.268	* *
4-NITROPHENOL	.144	.257	.200	.200	.249	0.210	21.716	* *
DIBENZOFURAN	1.768	1.661	1.584	1.506	1.426	1.587	8.206	

RF - Response Factor (subscript is the amount of nanograms)
AvRF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
ND - not detectable at 20ng

Initial Calibration Data
Semivolatile MSL Compounds
(Page 2)

Lab No: Gen. Test
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : GMA 016
Calibration Date : 05/17/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MG000020A16	MI650517A16	MM650517B16	MG650517B16	MG000160A16			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
2,4-DINITROTOLUENE	.311	.349	.304	.277	.304	0.329	12.679	
2,6-DINITROTOLUENE	.267	.293	.267	.252	.296	0.275	6.868	
DIETHYL PHTHALATE	1.648	1.559	1.408	1.257	1.617	1.498	10.852	
4-CHLOROPHENYL PHENYL ETHER	.467	.445	.437	.418	.506	0.455	7.387	
FLUORENE	1.313	1.204	1.129	1.051	1.302	1.200	9.345	
4-NITROANILINE	.094	.361	.260	.240	.372	0.267	41.988	
4,6-DINITRO-O-CRESOL	.065	.101	.091	.088	.100	0.089	16.205	
N-NITROSODIPHENYLAMINE (1)	.586	.616	.551	.553	.440	0.549	12.081	*
4-BROMOPHENYL PHENYL ETHER	.169	.176	.180	.184	.154	0.173	6.846	
HEXACHLOROBENZENE	.233	.208	.217	.218	.186	0.212	8.068	
PENTACHLOROPHENOL	.049	.096	.086	.094	.098	0.085	23.953	*
PHENANTHRENE	1.230	1.102	1.126	1.102	.883	1.089	11.602	
ANTHRACENE	1.144	1.076	1.046	1.023	.823	1.022	11.757	
DI-N-BUTYL PHTHALATE	1.696	1.971	1.604	1.498	1.057	1.565	21.316	
FLUORANTHENE	.934	.983	.854	.844	.624	0.848	16.249	*
BENZIDINE	.253	.069	.252	.094	.111	0.156	57.486	**
PYRENE	2.214	2.008	1.717	1.696	1.626	1.852	13.460	
BUTYL BENZYL PHTHALATE	1.146	1.142	1.060	1.000	1.142	1.098	5.990	
3,3'-DICHLOROBENZIDINE	.316	.283	.304	.272	.337	0.302	8.513	
BENZO (A) ANTHRACENE	1.387	1.229	1.217	1.179	1.125	1.228	7.996	
BIS (2-ETHYLHEXYL) PHTHALATE	1.834	1.791	1.691	1.629	1.619	1.705	5.258	
CHRYSENE	1.269	1.225	1.206	1.167	1.121	1.198	4.710	
DI-N-OCTYL PHTHALATE	2.806	3.134	2.891	2.952	3.352	3.027	7.203	*
3,4-BENZOFLUORANTHENE	.592	.569	.602	.663	.635	0.612	6.051	
BENZO (K) FLUORANTHENE	.592	.569	.602	.663	.635	0.612	6.051	
BENZO (A) PYRENE	1.062	1.037	1.040	1.058	1.051	1.050	1.023	*
INDENO (1,2,3-CD) PYRENE	1.094	1.181	1.226	1.283	1.103	1.177	6.842	
DIBENZO (A,H) ANTHRACENE	.867	.941	1.003	1.009	.887	0.941	6.851	
BENZO (GHI) PERYLENE	.928	.977	.995	1.074	.866	0.968	7.979	

RF_{20} - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
0 - not detectable at 20ng
(1) - Cannot be separated from diphenylamine

Initial Calibration Data
Semivolatile HSL Compounds
(Page 1)

Case No: Gen. Test
Factor: CompuChem Laboratories
Contract No.

Instrument ID : DWA M07
Calibration Date : 05/17/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	NI850517A07	NG850517A07	NK850517A07	NJ850517A07	NH850517A07

Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	SPCC **
N-NITROSODIMETHYLAMINE	3.016	2.620	3.396	3.892	3.633	3.311	15.26	
PHENOL	2.014	2.142	2.508	2.233	1.877	2.155	11.0	*
ANILINE	2.369	1.868	1.665	2.239	2.057	2.038	13.8	
BIS (2-CHLOROETHYL) ETHER	1.694	1.730	2.073	1.938	1.818	1.851	8.42	
2-CHLOROPHENOL	1.312	1.346	1.562	1.501	1.462	1.437	7.36	
1,3-DICHLOROBENZENE	1.519	1.531	1.732	1.651	1.604	1.607	5.493	
1,4-DICHLOROBENZENE	1.650	1.631	1.748	1.594	1.526	1.630	4.984	*
BENZYL ALCOHOL	.803	.880	.982	1.089	1.024	0.963	11.1	
1,2-DICHLOROBENZENE	1.402	1.529	1.585	1.588	1.558	1.532	5.00	
O-CRESOL	1.197	1.169	1.419	1.364	1.332	1.296	8.35	
BIS (2-CHLOROISOPROPYL) ETHER	4.331	4.045	4.976	4.807	4.633	4.558	8.19	
P-CRESOL	1.293	1.358	1.519	1.419	1.420	1.402	5.98	
N-NITROSODI-N-PROPYLAMINE	1.633	1.663	1.867	1.998	1.956	1.803	8.084	* *
HEXACHLOROETHANE	.672	.762	.905	.895	.867	0.820	12.27	
NITROBENZENE	2.131	2.140	2.468	2.533	2.514	2.357	8.653	
ISOPHORONE	1.169	1.052	.920	1.174	1.040	1.071	9.830	
O-NITROPHENOL	.159	.200	.202	.187	.180	0.186	9.571	*
2,4-DIMETHYLPHENOL	.326	.367	.341	.321	.311	0.337	8.824	
BIS (2-CHLOROETHOXY) METHANE	.497	.448	.481	.493	.458	0.473	4.159	
BENZOIC ACID	.048	.061	.122	.146	.157	0.106	46.63	
2,4-DICHLOROPHENOL	.274	.267	.280	.284	.267	0.275	2.742	
1,2,4-TRICHLOROBENZENE	.352	.348	.355	.340	.316	0.342	4.571	
NAPHTHALENE	1.134	1.065	1.060	.943	.842	1.009	11.46	
4-CHLOROANILINE	.394	.338	.298	.360	.366	0.351	10.20	
HEXACHLOROBUTADIENE	.213	.209	.215	.199	.167	0.201	8.77	*
P-CHLORO-M-CRESOL	.398	.381	.401	.425	.389	0.399	4.186	*
2-METHYLNAPHTHALENE	.721	.710	.698	.670	.633	0.686	5.176	
HEXACHLOROCYCLOPENTADIENE	.242	.265	.268	.351	.322	0.294	14.729	* *
2,4,6-TRICHLOROPHENOL	.263	.318	.326	.342	.320	0.314	9.582	*
2,4,5-TRICHLOROPHENOL	.263	.318	.326	.342	.320	0.314	9.582	
2-CHLORONAPHTHALENE	1.091	1.125	1.074	1.061	.994	1.069	4.552	
2-NITROANILINE	.623	.672	.707	.809	.727	0.708	9.192	
DIMETHYL PHTHALATE	1.322	1.364	1.240	1.291	1.217	1.287	4.628	
ACENAPHTHYLENE	1.710	1.711	1.649	1.520	1.432	1.606	7.630	
3-NITROANILINE	.324	.361	.347	.393	.371	0.360	7.380	
ACENAPHTENE	1.113	1.109	1.053	1.097	.963	1.083	7.683	*
2,4-DINITROPHENOL	0	.840	.871	.881	.188	0.673	34.344	* *
4-NITROPHENOL	.612	.653	.774	.813	.720	0.794	6.234	* *
DIBENZOFURAN	1.475	1.554	1.381	1.389	1.259	1.412	7.860	

$\overline{RF}$ - Response Factor (subscript is the amount of nanograms)
; RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
0 - not detectable at 20ng

Initial Calibration Data
Semivolatile BNA Compounds
(Page 2)

Case No: Gen. Test
Contractor: CompuChem Laboratories
Contract No.

Instrument ID : GMA 907
Calibration Date : 05/17/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID		MI850517A07	MG850517A07	MK850517A07	MJ850517A07	MH850517A07		
Compound		RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC or SPCC
2,4-DINITROTOLUENE		.422	.492	.563	.567	.544	0.516	12.133	
2,6-DINITROTOLUENE		.202	.234	.257	.286	.272	0.250	13.261	
DIETHYL PHTHALATE		1.539	1.475	1.509	1.450	1.406	1.477	3.411	
4-CHLOROPHENYL PHENYL ETHER		.526	.534	.534	.543	.503	0.527	2.984	
FLUORENE		1.252	1.252	1.191	1.162	1.015	1.166	8.511	
4-NITROANILINE		.145	.162	.183	.164	.163	0.163	8.151	
4,6-DINITRO-O-CRESOL		.036	.065	.077	.086	.090	0.071	31.095	
N-NITROSODIPHENYLAMINE	(1)	.434	.468	.448	.378	.390	0.424	9.672	*
4-BROMOPHENYL PHENYL ETHER		.169	.180	.194	.179	.171	0.178	5.502	
HEXACHLOROBENZENE		.242	.232	.240	.220	.198	0.228	7.674	
PENTACHLOROPHENOL		.044	.083	.092	.096	.098	0.082	27.270	*
PHENANTHRENE		.980	.990	.957	.848	.805	0.916	9.154	
ANTHRACENE		.980	.990	.957	.848	.805	0.916	9.159	
DI-N-BUTYL PHTHALATE		1.424	1.492	1.457	1.306	1.102	1.346	11.069	
FLUORANTHENE		1.026	1.133	1.131	.999	.997	1.057	6.563	*
BENZIDINE		6	6	6	6	.050	0.050*	0.000	* *
PYRENE		1.716	1.782	1.589	1.578	1.455	1.624	7.877	
BUTYL BENZYL PHTHALATE		.692	.853	.811	.888	.881	0.825	9.735	
3,3'-DICHLOROBENZIDINE		.199	.185	.220	.151	.189	0.189	13.142	
BENZO (A) ANTHRACENE		1.285	1.309	1.298	1.281	1.244	1.283	1.916	
BIS (2-ETHYLHEXYL) PHTHALATE		1.046	1.265	1.214	1.278	1.277	1.216	8.087	
CHRYSENE		1.131	1.199	1.208	1.167	1.164	1.174	2.607	
DI-N-OCTYL PHTHALATE		1.708	1.982	1.851	2.103	2.173	1.964	9.602	*
3,4-BENZOFLUORANTHENE		1.148	1.246	1.276	1.247	1.238	1.231	3.946	
BENZO (K) FLUORANTHENE		1.008	1.045	1.220	1.217	1.100	1.118	8.706	
BENZO (A) PYRENE		.931	1.043	1.124	1.137	1.114	1.070	7.998	*
INDENO (1,2,3-CD) PYRENE		.991	1.219	1.310	1.217	1.279	1.203	10.387	
DIBENZO (A,H) ANTHRACENE		.778	1.053	1.071	.946	.989	0.957	11.480	
BENZO (GHI) PERYLENE		.827	1.041	1.130	1.020	1.048	1.013	11.087	

- Response Factor (subscript is the amount of nanograms)
, RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
6 - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Volatile HSL Compounds

Case No: GEN. TEST
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : GWA #11

Calibration Date: 05/07/85
Time: 06:33
Laboratory ID : CT050507C11
Initial Calabration Date: 05/01/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
METHYL CHLORIDE	2.149	2.324	-8.154		**
METHYL BROMIDE	2.731	2.599	4.837		
VINYL CHLORIDE	2.212	2.165	2.125	*	
CHLOROETHANE	1.166	1.123	3.722		
METHYLENE CHLORIDE	1.997	1.894	5.152		
ACETONE (2-PROPANONE)	0.369	0.383	-3.711		
CARBON DISULFIDE	4.499	4.380	2.653		
1,1-DICHLOROETHYLENE	1.349	1.845	7.674	*	
1,1-DICHLOROETHANE	2.393	2.221	7.203		**
1,2-TRANS-DICHLOROETHYLENE	1.437	1.350	6.052		
CHLOROFORM	3.473	3.051	12.158	*	
1,2-DICHLOROETHANE	2.445	2.151	12.024		
2-BUTANONE	0.019	0.022	-19.251		
1,1,1-TRICHLOROETHANE	0.476	0.438	7.821		
CARBON TETRACHLORIDE	0.526	0.460	12.854		
VINYL ACETATE	0.436	0.395	9.274		
BICHLORODBROMOMETHANE	0.570	0.521	6.897		
1,2-DICHLOROPROPANE	0.296	0.300	-1.352	*	
TRANS-1,3-DICHLOROPROPYLENE	0.291	0.311	-4.977		
TRICHLOROETHYLENE	0.490	0.488	0.347		
CHLORODIBROMOMETHANE	0.593	0.561	5.345		
1,1,2-TRICHLOROETHANE	0.348	0.353	-1.734		
BENZENE	0.924	0.943	-2.024		
CIS-1,3-DICHLOROPROPYLENE	0.764	0.717	6.128		
2-CHLOROETHYLVINYL ETHER	0.142	0.135	4.513		
BROMOFORM	0.409	0.347	14.957		**
2-HEXANONE	0.207	0.208	-0.241		
4-METHYL-2-PENTANONE	0.137	0.131	4.565		
TETRACHLOROETHYLENE	0.534	0.476	10.913		
1,1,2,2-TETRACHLOROETHANE	0.443	0.455	-2.711		**
TOLUENE	0.713	0.721	-1.051	*	
CHLOROBENZENE	1.101	1.119	-1.282		**
ETHYLBENZENE	0.577	0.580	-0.398	*	
STYRENE	1.378	1.337	2.974		
TOTAL XYLENES	0.928	0.897	3.266		

RF(50) - Response Factor from daily standard file 50 ug/l
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Case No: Gen. Test

Contractor: CompuChem Laboratories

Contract No:

Instrument ID : OHA 011

Calibration Date: 05/09/85
Time: 10:50
Laboratory ID : CT850509A11
Initial Calabration Date: 05/01/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RT	RF(50)	%D	CCC	SPCC
METHYL CHLORIDE	2.149	1.788	16.779		**
METHYL BROMIDE	2.731	2.014	26.232		
VINYL CHLORIDE	2.212	1.752	20.791	*	
CHLOROETHANE	1.166	0.970	16.142		
METHYLENE CHLORIDE	1.997	1.680	15.902		
ACETONE (2-PROPANONE)	0.369	0.277	24.979		
CARBON DISULFIDE	4.499	2.546	43.416		
1,1-DICHLOROETHYLENE	1.349	1.075	20.317	*	
1,1-DICHLOROETHANE	2.393	1.983	17.135		**
1,2-TRANS-DICHLOROETHYLENE	1.437	1.153	19.799		
CHLOROFORM	3.473	2.753	20.731	*	
1,2-DICHLOROETHANE	2.445	1.915	21.700		
2-BUTANONE	0.019	0.019	0.534		
1,1,1-TRICHLOROETHANE	0.476	0.416	12.489		
CARBON TETRACHLORIDE	0.526	0.421	19.897		
VINYL ACETATE	0.436	0.302	30.693		
DICHLOROBROMOMETHANE	0.570	0.484	15.007		
1,2-DICHLOROPROPANE	0.296	0.280	5.341	*	
TS-1,3-DICHLOROPROPYLENE	0.201	0.181	10.054		
TRICHLOROETHYLENE	0.490	0.432	11.744		
CHLORODIBROMOMETHANE	0.593	0.478	19.426		
1,1,2-TRICHLOROETHANE	0.348	0.296	15.015		
BENZENE	0.924	0.827	10.435		
CIS-1,3-DICHLOROPROPYLENE	0.764	0.622	18.502		
2-CHLOROETHYLVINYL ETHER	0.142	0.122	13.681		
BROMOFORM	0.409	0.305	25.336		**
2-HEXANONE	0.207	0.174	16.200		
4-METHYL-2-PENTANONE	0.137	0.107	21.906		
TETRACHLOROETHYLENE	0.534	0.437	18.251		
1,1,2,2-TETRACHLOROETHANE	0.443	0.403	8.858		**
TOLUENE	0.713	0.635	10.963	*	
CHLOROBENZENE	1.101	0.972	11.716		**
ETHYLBENZENE	0.577	0.530	8.226	*	
STYRENE	1.378	1.075	22.032		
TOTAL XYLENES	0.928	0.729	21.431		

RF(50) - Response Factor from daily standard file 50 ug/l
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Volatile HSL Compounds

Lab File No: Gen. Test
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : OWA #12

Calibration Date: 05/09/85
Time: 16:50
Laboratory ID : CS850509B12
Initial Calabration Date: 05/09/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
METHYL CHLORIDE	0.739	0.880	-19.128		**
METHYL BROMIDE	1.244	1.474	-18.495		
VINYL CHLORIDE	0.976	1.198	-22.751	*	
CHLOROETHANE	0.519	0.626	-20.674		
METHYLENE CHLORIDE	0.956	1.121	-17.189		
ACETONE (2-PROPANONE)	0.209	0.216	-3.349		
CARBON DISULFIDE	2.764	3.134	-13.364		
1,1-DICHLOROETHYLENE	0.914	1.062	-16.185	*	
1,1-DICHLOROETHANE	1.660	1.852	-11.579		**
1,2-TRANS-DICHLOROETHYLENE	0.946	1.077	-13.882		
CHLOROFORM	2.178	2.421	-11.127	*	
1,2-DICHLOROETHANE	1.439	1.550	-7.720		
2-BUTANONE	0.023	0.025	-9.333		
1,1,1-TRICHLOROETHANE	0.442	0.515	-16.610		
CARBON TETRACHLORIDE	0.465	0.546	-17.419		
VINYL ACETATE	0.374	0.417	-11.437		
DICHLOROBROMOMETHANE	0.508	0.596	-17.349		
1,2-DICHLOROPROPANE	0.289	0.335	-15.882	*	
cis-1,3-DICHLOROPROPYLENE	0.202	0.234	-15.578		
TRICHLOROETHYLENE	0.405	0.490	-21.077		
CHLORODIBROMOMETHANE	0.444	0.541	-21.801		
1,1,2-TRICHLOROETHANE	0.259	0.303	-17.040		
BENZENE	0.580	0.676	-16.603		
CIS-1,3-DICHLOROPROPYLENE	0.551	0.638	-15.816		
2-CHLOROETHYLVINYL ETHER	0.169	0.190	-12.396		
BROMOFORM	0.416	0.467	-12.436		**
2-HEXANONE	0.258	0.289	-11.919		
4-METHYL-2-PENTANONE	0.170	0.188	-10.954		
TETRACHLOROETHYLENE	0.456	0.538	-17.956		
1,1,2,2-TETRACHLOROETHANE	0.424	0.486	-14.558		**
TOLUENE	0.522	0.985	-12.152	*	
CHLOROBENZENE	0.821	0.952	-15.965		**
ETHYLBENZENE	0.440	0.507	-15.286	*	
STYRENE	1.113	1.226	-10.114		
TOTAL XYLENES	0.637	0.685	-7.523		

RF(50) - Response Factor from daily standard file 50 ug/l
RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile MSL Compounds
(Page 1)

Case No: GEN. TEST
Factor: CompuChem Laboratories
Contract No:
Instrument ID : GWA #16

Calibration Date: 05/17/85
Time: 19:26
Laboratory ID : MI850517D1C
Initial Calabration Date: 05/17/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-NITROSODIMETHYLAMINE	1.239	1.359	-9.681		
PHENOL	2.372	2.447	-3.140	*	
ANILINE	2.289	2.065	9.810		
BIS (2-CHLOROETHYL) ETHER	1.984	2.184	-10.048		
2-CHLOROPHENOL	1.516	1.543	-1.593		
1,3-DICHLOROBENZENE	1.549	1.532	1.142		
1,4-DICHLOROBENZENE	1.696	1.748	-3.078	*	
BENZYL ALCOHOL	1.034	1.050	-1.479		
1,2-DICHLOROBENZENE	1.519	1.597	-5.169		
O-CRESOL	1.420	1.499	-5.547		
BIS (2-CHLOROISOPROPYL) ETHER	2.892	3.779	-30.678		
P-CRESOL	1.539	1.743	-13.295		
N-NITROSODI-N-PROPYLAMINE	1.313	1.537	-17.033		**
HEXACHLOROETHANE	0.771	0.830	-7.761		
NITROBENZENE	1.658	2.030	-22.402		
ISOPHORONE	0.846	1.015	-20.056		
2-NITROPHENOL	0.195	0.190	2.668	*	
2,4-DIMETHYLPHENOL	0.340	0.337	0.912		
(2-CHLOROETHOXY) METHANE	0.497	0.531	-6.697		
BENZOIC ACID	0.138	0.103	25.434		
2,4-DICHLOROPHENOL	0.240	0.231	3.873		
1,2,4-TRICHLOROBENZENE	0.260	0.253	2.690		
NAPHTHALENE	1.064	1.157	-8.757		
4-CHLOROANILINE	0.431	0.412	4.362		
HEXACHLOROBUTADIENE	0.127	0.126	0.629	*	
P-CHLORO-M-CRESOL	0.307	0.338	-9.954	*	
2-METHYLNAPHTHALENE	0.580	0.607	-4.550		
HEXACHLOROCYCLOPENTADIENE	0.305	0.293	3.962		**
2,4,6-TRICHLOROPHENOL	0.324	0.319	1.452	*	
2,4,5-TRICHLOROPHENOL	0.324	0.319	1.452		
2-CHLORONAPHTHALENE	1.275	1.302	-2.110		
2-NITROANILINE	0.386	0.481	-24.430		
DIMETHYL PHTHALATE	1.274	1.343	-5.441		
ACENAPHTHYLENE	1.972	2.159	-9.445		
3-NITROANILINE	0.332	0.321	3.402		
ACENAPHTHENE	1.330	1.398	-5.152	*	
2,4-DINITROPHENOL	0.079	0.054	32.449		**
4-NITROPHENOL	0.210	0.195	7.238		**
DIBENZOFURAN	1.567	1.632	-2.822		

RF(50) - Response Factor from daily standard file at concentration indicated
RF - Average Response Factor from initial calibration Form 6I

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

Case No: GEN. TEST
Factor: CompuChem Laboratories
Contract No:
Instrument ID : OWA #16

Calibration Date: 05/17/85
Time: 19:26
Laboratory ID : HI850517D16
Initial Calabration Date: 05/17/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-DINITROTOLUENE		0.324	0.424	-30.997		
2,6-DINITROTOLUENE		0.275	0.259	5.963		
DIETHYL PHTHALATE		1.498	1.637	-9.299		
4-CHLOROPHENYL PHENYL ETHER		0.455	0.472	-3.894		
FLUORENE		1.200	1.173	2.242		
4-NITROANILINE		0.267	0.238	10.790		
4,6-DINITRO-O-CRESOL		0.089	0.075	15.990		
N-NITROSODIPHENYLAMINE	(1)	0.549	0.615	-12.001	*	
4-BROMOPHENYL PHENYL ETHER		0.173	0.197	-14.128		
HEXACHLOROBENZENE		0.212	0.256	-20.676		
PENTACHLOROPHENOL		0.085	0.094	-10.836	*	
PHENANTHRENE		1.089	1.151	-5.713		
ANTHRACENE		1.022	1.085	-6.152		
DI-N-BUTYL PHTHALATE		1.565	1.817	-16.086		
FLUORANTHENE		0.848	0.890	-5.000	*	
BENZIDINE		0.156	0.040**	74.261		**
PYRENE		1.852	1.888	-1.932		
BUTYL BENZYL PHTHALATE		1.090	1.167	-6.257		
3,3'-DICHLOROBENZIDINE		0.302	0.285	5.654		
BENZO (A) ANTHRACENE		1.228	1.210	1.441		
BIS (2-ETHYLHEXYL) PHTHALATE		1.705	1.810	-6.147		
CHRYSENE		1.198	1.238	-3.339		
DI-N-OCTYL PHTHALATE		3.027	3.095	-2.239	*	
3,4-BENZOFLUORANTHENE		0.612	1.128	-84.188		
BENZO (K) FLUORANTHENE		0.612	1.128	-84.188		
BENZO (A) PYRENE		1.050	0.981	6.582	*	
INDENO (1,2,3-CD) PYRENE		1.177	1.230	-4.441		
DIBENZO (A,H) ANTHRACENE		0.941	0.983	-4.461		
BENZO (GHI) PERYLENE		0.968	1.039	-7.355		

RF(50) - Response Factor from daily standard file at concentration indicated
RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile BSL Compounds
(Page 1)

F[illegible] No: Gen. Test
Factor: CompuChem Laboratories
Contract No: _____
Instrument ID : GNA M16

Calibration Date: 05/22/05
Time: 13:58
Laboratory ID : NM050522A16
Initial Calabration Date: 05/17/05

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-NITROSODIMETHYLAMINE	1.239	2.229	-79.887		
PHENOL	2.372	2.908	-22.567	*	
ANILINE	2.289	3.108	-35.740		
BIS (2-CHLOROETHYL) ETHER	1.984	2.837	-42.985		
2-CHLOROPHENOL	1.519	1.674	-10.226		
1,3-DICHLOROBENZENE	1.549	1.590	-2.652		
1,4-DICHLOROBENZENE	1.696	1.861	-9.772	*	
BENZYL ALCOHOL	1.034	1.321	-27.712		
1,2-DICHLOROBENZENE	1.518	1.485	2.167		
O-CRESOL	1.420	1.724	-21.402		
BIS (2-CHLOROISOPROPYL) ETHER	2.892	6.307	-118.120		
P-CRESOL	1.536	1.869	-21.533		
N-NITROSODI-N-PROPYLAMINE	1.313	2.362	-79.821		**
HEXACHLOROETHANE	0.771	0.833	-8.163		
NITROBENZENE	1.658	2.598	-56.672		
ISOPHORONE	0.846	1.120	-32.473		
2-NITROPHENOL	0.195	0.196	-0.718	*	
2,4-DIMETHYLPHENOL	0.340	0.358	-5.383		
BIS (2-CHLOROETHOXY) METHANE	0.497	0.656	-31.918		
BENZOIC ACID	0.138	0.151	-9.565		
2,4-DICHLOROPHENOL	0.240	0.247	-2.748		
1,2,4-TRICHLOROBENZENE	0.260	0.266	-2.036		
NAPHTHALENE	1.064	1.025	3.711		
4-CHLOROANILINE	0.431	0.430	0.232		
HEXACHLOROBUTADIENE	0.127	0.112	11.968	*	
P-CHLORO-M-CRESOL	0.307	0.339	-10.214	*	
2-METHYLNAPHTHALENE	0.580	0.598	-3.050		
HEXACHLOROCYCLOPENTADIENE	0.305	0.223	26.948		**
2,4,6-TRICHLOROPHENOL	0.324	0.308	4.851	*	
2,4,5-TRICHLOROPHENOL	0.324	0.308	4.851		
2-CHLORONAPHTHALENE	1.275	1.331	-4.449		
2-NITROANILINE	0.386	0.686	-77.432		
DIMETHYL PHTHALATE	1.274	1.240	2.606		
ACENAPHTHYLENE	1.972	2.011	-1.967		
3-NITROANILINE	0.332	0.290	12.616		
ACENAPHTHENE	1.330	1.438	-8.145	*	
2,4-DINITROPHENOL	0.079	0.060	24.873		**
4-NITROPHENOL	0.210	0.192	8.523		**
DIBENZOFURAN	1.587	1.558	1.829		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile BNA Compounds
(Page 2)

Case No: Gen. Test
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : GWA #16

Calibration Date: 05/22/85
Time: 13:58
Laboratory ID : WH8505226.D
Initial Calibration Date: 05/17/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-DINITROTOLUENE		0.324	0.408	-25.841		
2,6-DINITROTOLUENE		0.275	0.245	11.018		
DIETHYL PHTHALATE		1.498	1.383	7.704		
4-CHLOROPHENYL PHENYL ETHER		0.455	0.445	2.112		
FLUORENE		1.200	1.196	0.316		
4-NITROANILINE		0.267	0.252	5.432		
4,6-DINITRO-O-CRESOL		0.089	0.080	9.572		
N-NITROSODIPHENYLAMINE	(1)	0.549	0.616	-12.092	*	
4-BROMOPHENYL PHENYL ETHER		0.173	0.198	-14.881		
HEXACHLOROBENZENE		0.212	0.227	-6.924		
PENTACHLOROPHENOL		0.085	0.077	9.305	*	
PHENANTHRENE		1.089	1.234	-13.337		
ANTHRACENE		1.022	1.146	-12.100		
DI-N-BUTYL PHTHALATE		1.565	1.476	5.692		
FLUORANTHENE		0.848	0.875	-3.160	*	
BENZIDINE		0.156	0.111	28.690		**
PYRENE		1.852	2.290	-23.642		
BUTYL BENZYL PHTHALATE		1.098	0.954	13.106		
3,3'-DICHLOROBENZIDINE		0.302	0.239	21.130		
BENZO (A) ANTHRACENE		1.228	1.433	-16.756		
BIS (2-ETHYLHEXYL) PHTHALATE		1.705	1.448	15.081		
CHRYSENE		1.198	1.164	2.855		
DI-N-OCTYL PHTHALATE		3.027	2.639	12.834	*	
3,4-BENZOFLUORANTHENE		0.612	0.527	13.998		
BENZO (K) FLUORANTHENE		0.612	0.527	13.998		
BENZO (A) PYRENE		1.050	1.014	3.391	*	
INDENO (1,2,3-CD) PYRENE		1.177	1.071	9.079		
DIBENZO (A,H) ANTHRACENE		0.941	0.863	8.359		
BENZO (GHI) PERYLENE		0.968	0.847	12.469		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 1)

Case No: Gen. Test.
Factor: CompuChem Laboratories
Contract No:
Instrument ID : DWA #07

Calibration Date: 05/25/85
Time: 06:52
Laboratory ID : N6850525C07
Initial Calabration Date: 05/17/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-NITROSODIMETHYLAMINE	3.311	1.764	46.720		
PHENOL	2.155	1.901	11.797	*	
ANILINE	2.038	1.705	16.351		
BIS (2-CHLOROETHYL) ETHER	1.851	1.598	13.655		
2-CHLOROPHENOL	1.437	1.330	7.467		
1,3-DICHLOROBENZENE	1.607	1.575	2.046		
1,4-DICHLOROBENZENE	1.630	1.623	0.380	*	
BENZYL ALCOHOL	0.967	0.768	20.286		
1,2-DICHLOROBENZENE	1.532	1.461	4.640		
O-CRESOL	1.296	1.099	15.221		
BIS (2-CHLOROISOPROPYL) ETHER	4.556	2.878	36.871		
P-CRESOL	1.402	1.225	12.603		
N-NITROSODI-N-PROPYLAMINE	1.803	1.340	25.712		**
HEXACHLOROETHANE	0.820	0.735	10.364		
NITROBENZENE	2.357	1.810	23.217		
ISOPHORONE	1.071	0.981	8.366		
2-NITROPHENOL	0.186	0.194	-4.366	*	
2,4-DIMETHYLPHENOL	0.337	0.358	-6.257		
BIS (2-CHLOROETHOXY) METHANE	0.473	0.485	-2.430		
BENZOIC ACID	0.106	0.165	-55.451		
2,4-DICHLOROPHENOL	0.275	0.327	-19.075		
1,2,4-TRICHLOROBENZENE	0.342	0.386	-12.616		
NAPHTHALENE	1.009	1.114	-10.460		
4-CHLOROANILINE	0.351	0.306	12.792		
HEXACHLOROBUTADIENE	0.204	0.222	-8.663	*	
P-CHLORO-M-CRESOL	0.399	0.400	-0.401	*	
2-METHYLNAPHTHALENE	0.686	0.688	-0.247		
HEXACHLOROCYCLOPENTADIENE	0.294	0.305	-3.985		**
2,4,6-TRICHLOROPHENOL	0.314	0.388	-23.780	*	
2,4,5-TRICHLOROPHENOL	0.314	0.388	-23.780		
2-CHLORONAPHTHALENE	1.069	1.271	-18.896		
2-NITROANILINE	0.708	0.589	16.777		
DIMETHYL PHTHALATE	1.287	1.483	-15.217		
ACENAPHTHYLENE	1.606	1.775	-10.568		
3-NITROANILINE	0.360	0.408	-13.351		
ACENAPHTHENE	1.083	1.253	-15.712	*	
2,4-DINITROPHENOL	0.073	0.070	4.389		**
4-NITROPHENOL	0.794	0.895	-12.640		**
DIBENZOFURAN	1.412	1.665	-17.971		

RT(50) - Response Factor from daily standard file at concentration indicated
RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

Case No: Gen. Test
Factor: CompuChem Laboratories
Contract No:
Instrument ID : GWA #07

Calibration Date: 05/25/85
Time: 06:52
Laboratory ID : MG850525C07
Initial Calabration Date: 05/17/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-DINITROTOLUENE		0.516	0.463	10.106		
2,6-DINITROTOLUENE		0.250	0.293	-17.406		
DIETHYL PHTHALATE		1.477	1.632	-10.460		
4-CHLOROPHENYL PHENYL ETHER		0.327	0.398	-13.456		
FLUORENE		1.164	1.313	-12.808		
4-NITROANILINE		0.163	0.166	-1.285		
4,6-DINITRO-O-CRESOL		0.071	0.084	-10.246		
N-NITROSODIPHENYLAMINE	(1)	0.424	0.476	-12.917	*	
4-BROMOPHENYL PHENYL ETHER		0.179	0.212	-18.900		
HEXACHLOROBENZENE		0.228	0.297	-30.145		
PENTACHLOROPHENOL		0.082	0.066	19.660	*	
PHENANTHRENE		0.916	1.069	-16.704		
ANTHRACENE		0.916	0.999	-9.018		
DI-N-BUTYL PHTHALATE		1.346	1.483	-10.147		
FLUORANTHENE		1.057	1.042	1.437	*	
BENZIDINE		0.050	0.006*	87.775		**
PYRENE		1.624	1.619	0.326		
BUTYL BENZYL PHTHALATE		0.825	0.830	-0.606		
3,3-DICHLOROBENZIDINE		0.189	0.182	3.442		
BENZO (A) ANTHRACENE		1.283	1.183	7.846		
BIS (2-ETHYLHEXYL) PHTHALATE		1.216	1.367	-12.403		
CHRYSENE		1.174	1.085	7.615		
DI-N-OCTYL PHTHALATE		1.964	2.193	-11.640	*	
3,4-BENZOFLUORANTHENE		1.231	1.126	8.531		
BENZO (K) FLUORANTHENE		1.118	1.126	-0.679		
BENZO (A) PYRENE		1.070	1.029	3.832	*	
INDENO (1,2,3-CD) PYRENE		1.203	1.190	1.113		
DIBENZO (A,H) ANTHRACENE		0.957	0.979	-2.224		
BENZO (GHI) PERYLENE		1.013	0.961	5.181		

RF(50) - Response Factor from daily standard file at concentration indicated
RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

EPA CASE# Gen Test COMPUCHEM CASE SUMMARY REFERENCE GUIDE REVIEWER _____

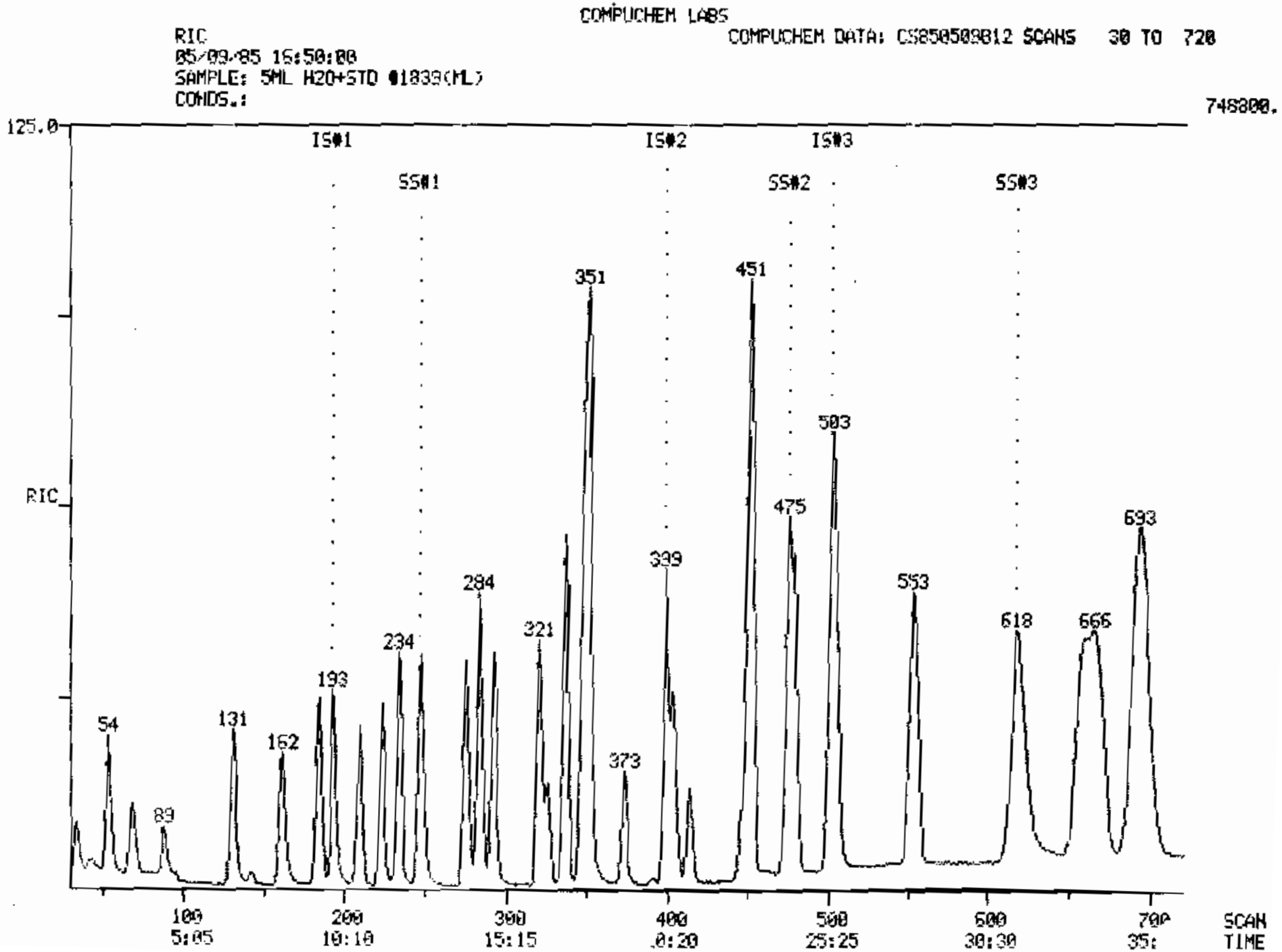
fraction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
	BF850509A1Q	CS85850 9B12	49803	50705A					
			49811	50705F					
			49808	SS					
			49809	SS					
			49812	50705B					
			49861	50705G					
	BF850509C11	CT850509A11	49817	11450					
			49816	11452					
			49815	11448					
			49814	11446					
			49813	50705					

EPA CASE# Gem Test

COMPUCHEM CASE SUMMARY REFERENCE GUIDE

REVIEWER

fraction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
	BF850507C11	CJ850507C11	49720	HB					
			49721	HB					


COMPUCHEM LABS
RIC
05/09/85 15:50:00
SAMPLE: 5ML H2O+STD @1833(ML)
CONDS.:
COMPUCHEM DATA: CS850509B12 SCANS 30 TO 720
748800.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
54
89
131
162
193
234
284
321
351
373
399
451
475
503
553
618
666
693
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/09/85 17:30:32
DATA FILE: CS850509B12
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	26	42	40	1	71	E237S/E23TU

42 COMPOUNDS PROCESSED, 40 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E1	1	-197	193	193	.	1	963	.	128	193	.	1
2	E2	1	-404	399	399	.	1	993	.	114	399	.	1
3	E3	1	-506	501	501	.	1	972	.	117	501	.	1
4	E1	2	-38	34	34	.	1	967	.	50	34	.	1
5	E1	3	-57	53	54	1	1	949	.	94	54	.	1
6	E1	4	-72	68	69	1	1	976	.	62	69	.	1
7	E1	5	-91	87	89	2	1	957	.	64	89	.	1
8	E1	6	-134	130	131	1	1	967	.	84	131	.	1
9	E1	7	-145	141	142	1	1	933	.	43	143	1	1
10	E1	8	-165	161	162	1	1	990	.	76	162	.	1
11	E1	9	-189	185	185	.	1	989	.	96	185	.	1
12	E1	10	-214	210	210	.	1	993	.	63	210	.	1
13	E1	11	-228	224	224	.	1	988	.	96	224	.	1
14	E1	12	-239	235	234	-1	1	980	.	83	234	.	1
15	E1	13	-254	250	249	-1	1	938	.	62	249	.	1
16	E2	2	-252	248	247	-1	1	988	.	72	247	.	1
	E2	3	-281	277	276	-1	1	962	.	97	276	.	1
18	E2	4	-289	285	284	-1	1	990	.	117	284	.	1
19	E2	5	-290	286	285	-1	1	969	.	43	285	.	1
20	E2	6	-298	294	293	-1	1	986	.	83	293	.	1
21	E2	7	-326	321	321	.	1	993	.	63	321	.	1
22	E2	8	-331	326	326	.	1	983	.	75	326	.	1
23	E2	9	-342	337	337	.	1	978	.	130	337	.	1
24	E2	10	-354	349	.	.	.	.	.	129	349	.	1
25	E2	11	-356	351	351	.	1	993	.	97	351	.	1
26	E2	12	-353	348	348	.	1	993	.	78	347	-1	1
27	E2	13	-357	352	351	-1	1	971	.	75	351	.	1
28	E2	14	-378	373	373	.	1	958	.	63	373	.	1
29	E2	15	-409	404	403	-1	1	966	.	173	403	.	1
30	E3	2	-419	414	414	.	1	951	.	43	414	.	1
31	E3	3	-451	446	446	.	1	920	.	43	446	.	1
32	E3	4	-456	451	452	1	1	947	.	164	451	-1	1
33	E3	5	-455	450	.	.	.	.	.	83	450	.	1
34	E3	6	-484	479	479	.	1	991	.	92	479	.	1
35	E3	7	-509	504	504	.	1	982	.	112	504	.	1
36	E3	8	-558	553	553	.	1	989	.	106	553	.	1
37	E3	9	-663	657	659	2	1	989	.	104	658	-1	1
38	E3	10	-672	666	666	.	1	988	.	106	667	1	1
39	E3	11	-699	693	694	1	1	990	.	106	694	.	1
40	E4	2	-252	248	247	-1	1	980	.	65	247	.	1
41	E4	3	-623	617	618	1	1	994	.	95	618	.	1
2	E4	4	-480	475	475	.	1	988	.	98	475	.	1

QUANTITATION REPORT FILE: CS850509B12

DATA: CS850509B12.TI
09/85 16:50:00
IPLE: 5ML H2O+STD #1839(ML)
CONDS. :
SUBMITTED BY: 12 ANALYST: 719

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
REEP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	327 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* 05 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	20T CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	* D4-1,2-DICHLOROETHANE
41	* BROMOFLUOROBENZENE
42	* DB-TOLUENE

M.O 5/9/85

D	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	193	9:49	1	1.000	A BB	135458.	50.000 UG/L	1.87
2	50	34	1:44	1	0.176	A BB	119207.	62.444 UG/L	2.34

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	54	2:45	1	0.280	A BV	199696.	60.389	UG/L	2.26
4	62	69	3:30	1	0.358	A BB	162301.	61.653	UG/L	2.31
5	64	89	4:31	1	0.461	A BV	84838.	59.961	UG/L	2.24
6	84	131	6:40	1	0.679	A BV	151824.	62.950	UG/L	2.35
7	43	143	7:16	1	0.741	A BB	29303.	77.225	UG/L	2.89
8	76	162	8:14	1	0.839	A BB	424454.	56.924	UG/L	2.13
9	96	185	9:24	1	0.959	A BV	143817.	59.750	UG/L	2.23
10	63	210	10:40	1	1.088	A BV	250888.	57.626	UG/L	2.16
11	96	224	11:23	1	1.161	A BV	145905.	59.393	UG/L	2.22
12	83	234	11:54	1	1.212	A BB	327921.	58.088	UG/L	2.17
13	62	249	12:39	1	1.290	A BB	209983.	58.683	UG/L	2.19
14	114	399	20:17	14	1.000	A BV	512685.	50.000	UG/L	1.87
15	72	247	12:33	14	0.619	A BB	12602.	81.844	UG/L	3.06
16	97	276	14:02	14	0.692	A BV	264205.	61.991	UG/L	2.32
17	117	284	14:26	14	0.712	A VV	279946.	63.696	UG/L	2.38
18	43	285	14:29	14	0.714	A BB	213772.	67.869	UG/L	2.54
19	83	293	14:54	14	0.734	A BB	305495.	62.787	UG/L	2.35
20	63	321	16:19	14	0.805	A BV	171702.	62.816	UG/L	2.35
21	75	326	16:34	14	0.817	A BB	119794.	61.457	UG/L	2.30
22	130	337	17:08	14	0.845	A BV	251209.	70.433	UG/L	2.63
23	129	349	17:44	14	0.875	A BB	277267.	70.365	UG/L	2.63
24	97	351	17:51	14	0.880	A VV	155283.	73.069	UG/L	2.73
25	78	347	17:38	14	0.870	A BB	346733.	66.006	UG/L	2.47
26	75	351	17:51	14	0.880	A BB	326993.	66.385	UG/L	2.49
27	63	373	18:58	14	0.935	A BV	97626.	65.384	UG/L	2.45
28	173	403	20:29	14	1.010	A BV	239632.	65.883	UG/L	2.46
29	117	501	25:28	29	1.000	A BB	467399.	50.000	UG/L	1.87
30	43	414	21:03	29	0.826	A BV	135191.	69.982	UG/L	2.58
31	43	446	22:40	29	0.890	A BB	88055.	73.156	UG/L	2.74
32	164	451	22:56	29	0.900	A BV	251475.	64.945	UG/L	2.43
33	83	450	22:52	29	0.898	A BV	226923.	74.070	UG/L	2.77
34	92	479	24:21	29	0.956	A BV	273458.	60.028	UG/L	2.24
35	112	504	25:37	29	1.006	A BV	444742.	62.554	UG/L	2.34
36	106	553	28:07	29	1.104	A BB	236892.	62.203	UG/L	2.33
37	104	658	33:27	29	1.313	A BB	572929.	59.744	UG/L	2.23
38	106	667	33:54	29	1.331	A BB	319987.	58.201	UG/L	2.18
39	106	694	35:17	29	1.385	A BB	615581.	118.921	UG/L	4.45
40	65	247	12:33	1	1.280	A BV	209830.	47.501	UG/L	1.78
41	95	618	31:25	29	1.234	A BB	375403.	49.775	UG/L	1.86
42	98	475	24:09	1	2.461	A BB	482336.	48.702	UG/L	1.82

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:58	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:53	0.92	10.000	0.02	62.44	50.00	0.880	0.705	1.25
3	2:54	0.95	10.000	0.03	60.39	50.00	1.474	1.221	1.21
4	3:40	0.96	10.000	0.04	61.65	50.00	1.198	0.972	1.23
5	4:38	0.98	10.000	0.05	59.96	50.00	0.626	0.522	1.20
6	6:49	0.98	5.000	0.14	62.95	50.00	1.121	0.890	1.26
7	7:22	0.99	10.000	0.07	77.23	50.00	0.216	0.140	1.54
8	8:20	0.99	5.000	0.17	56.92	50.00	3.133	2.752	1.14
9	9:33	0.98	5.000	0.19	59.75	50.00	1.062	0.888	1.19
10	10:50	0.99	5.000	0.22	57.63	50.00	1.852	1.607	1.15
11	11:32	0.99	5.000	0.23	59.39	50.00	1.077	0.907	1.19
12	12:06	0.98	5.000	0.24	58.09	50.00	2.421	2.084	1.16
13	12:52	0.98	5.000	0.26	58.68	50.00	1.550	1.321	1.17
14	20:29	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	0.98	10.000	0.06	81.84	50.00	0.025	0.015	1.64
16	14:14	0.99	5.000	0.14	61.99	50.00	0.515	0.416	1.24
17	14:35	0.99	5.000	0.14	63.70	50.00	0.546	0.429	1.27
18	14:41	0.99	10.000	0.07	67.87	50.00	0.417	0.307	1.36
19	15:03	0.99	5.000	0.15	62.79	50.00	0.596	0.475	1.26
20	16:31	0.99	5.000	0.16	62.82	50.00	0.335	0.267	1.26
21	16:46	0.99	5.000	0.16	61.46	50.00	0.234	0.190	1.23
22	17:20	0.99	5.000	0.17	70.43	50.00	0.490	0.348	1.41
23	17:57	0.99	5.000	0.17	70.36	50.00	0.541	0.384	1.41
24	18:03	0.99	5.000	0.18	73.07	50.00	0.303	0.207	1.46
25	17:51	0.99	5.000	0.17	66.01	50.00	0.676	0.512	1.32
26	18:03	0.99	5.000	0.18	66.58	50.00	0.638	0.479	1.33
27	19:10	0.99	10.000	0.09	65.38	50.00	0.190	0.146	1.31
28	20:41	0.99	5.000	0.20	65.88	50.00	0.467	0.355	1.32
29	25:40	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	0.99	10.000	0.08	68.98	50.00	0.289	0.210	1.38
31	22:49	0.99	10.000	0.09	73.16	50.00	0.188	0.129	1.46
32	23:11	0.99	5.000	0.18	64.95	50.00	0.538	0.414	1.30
33	23:05	0.99	5.000	0.18	74.07	50.00	0.486	0.328	1.48
34	24:33	0.99	5.000	0.19	60.03	50.00	0.585	0.487	1.20
35	25:49	0.99	5.000	0.20	62.55	50.00	0.952	0.761	1.25
36	28:19	0.99	5.000	0.22	62.20	50.00	0.507	0.407	1.24
37	33:39	0.99	5.000	0.26	59.74	50.00	1.226	1.026	1.19
38	34:07	0.99	5.000	0.27	58.20	50.00	0.685	0.588	1.16
39	35:29	0.99	5.000	0.28	118.92	100.00	0.659	0.554	1.19
40	12:46	0.98	10.000	0.13	47.50	50.00	1.549	1.631	0.95
41	31:40	0.99	10.000	0.12	49.78	50.00	0.803	0.807	1.00
2	24:21	0.99	10.000	0.25	48.70	50.00	3.561	3.656	0.97

Internal Standard Area Monitor

Method: E237 Filename: C8850509B12 Date: 05/09/85
Shift Std: CT850509A12 Time: 16:50

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	135457.	123460.	10.	Pass
* 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)	512604.	470415.	8.	Pass
* 05 CHLOROBENZENE(INTERNAL STANDARD)	467377.	443202.	5.	Pass

CompuChem Laboratories, Inc.
GC/MS Analysis Log

9:11

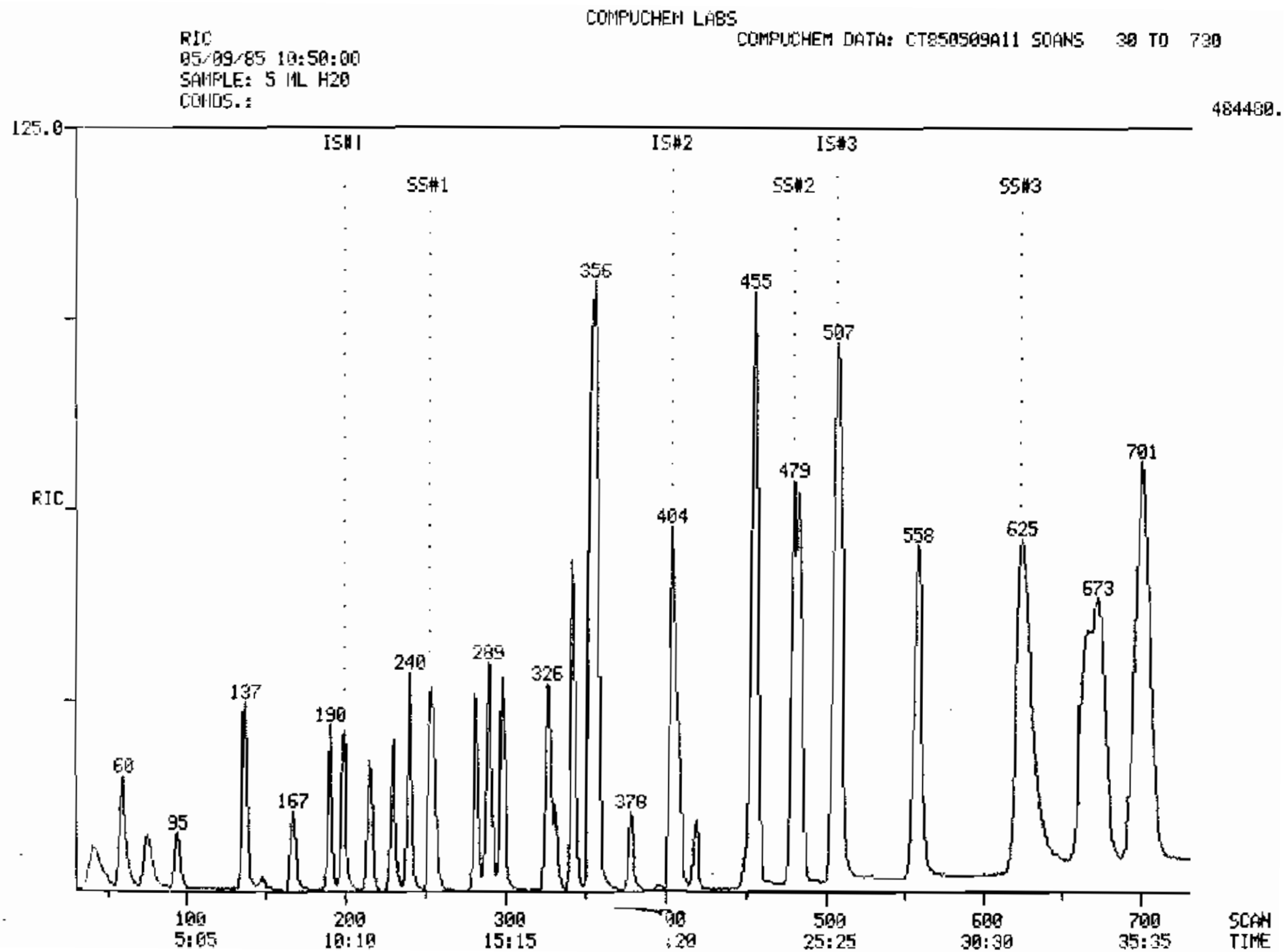
Initial Time of Tune 6:51
Time Tune Expires 18:51
22:11

Shift(s) (A) (B) (C)
Date 5/9/85
Analysis Type 624
237

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #s, Dispos
1	X	BF850509C12		5985	6:40			2ml	812		122	14587
2	X	VB850509C12		/ /	6:59			5ml	812		122	14580, 14582 conc
3		VC850509C12		/ /	:	Bake 30 min		5ml				
4	X	VC850509C12		/ /	7:30			5ml	812		122	14580, 14582
5				/ /	Calibration Soln #s 237's							
6	X	BF850509A12		/ /	:			2ml	577		122	14587
7	X	CB850509A12		/ /	9:32			5ml	577		122	14580 14582
8		BF850509A12 (mc)		/ /	9:11			2ml	577		122	14587
9	N	CS850509A12		/ /	10:26			5ml	577		122	STD 1839
10		CC850509A12		/ /	11:12			5ml	577		122	14580 14582
11		CT850509A12	Spike	/ /	12:20			5ml	mc		122	STD 1839 (mc)
12		CW850509A12		/ /	13:20			5ml	mc		122	STD 1837 (L)
13		CW850509A12		/ /	14:27			5ml	SM		122	STD 1840 (100
14		CW850509A12		/ /	15:15			5ml	577		122	STD 1841 (L
15		CX850509A12		/ /	16:05			5ml	SM		122	STD 1842
16		CSSSD509B12		/ /	16:50			5ml	719		122	Std # B39 (mc)
17		CN04803B12		/ /	17:57	50705A	GEN TEST	5ml	719		122	
18		CN04811B12		/ /	18:39	50705F	GEN TEST	5ml	719		122	
19		CN04808B12		/ /	19:21	SS	GEN TEST	5ml	719		122	
20		CN04809B12		/ /	20:03	SS	GEN TEST	5ml	719		122	
21		CN04812B12		/ /	2:48	50705B	" "	5ml	719		122	
22		CN04861B12		/ /	21:38		" "	5ml	719		122	
23				/ /	:							
24				/ /								
25				/ /	5/9/85							
26				/ /								

MD


COMPUCHEM LABS
RIC
05/09/85 10:50:00
SAMPLE: 5 ML H20
COMDS.:
COMPUCHEM DATA: CT850509A11 SOANS 30 TO 730
484480.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
60
95
137
167
190
240
289
326
356
378
404
455
479
507
558
625
673
701
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
TIME

DATA FILE: CT850509A11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	132	42	39	1	110	E237S/E237U

42 COMPOUNDS PROCESSED, 39 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PREO	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	E1	1	-197	199	199	.	1	987	.	128	198	-1	1
2	E2	1	-405	405	404	-1	1	995	.	114	404	.	1
3	E3	1	-506	505	506	1	1	968	.	117	506	.	1
4	E1	2	-41	43	41	-2	1	979	.	50	41	.	1
5	E1	3	-59	60	60	.	1	957	.	94	60	.	1
6	E1	4	-73	74	76	2	1	984	.	62	76	.	1
7	E1	5	-91	92	95	3	1	985	.	64	95	.	1
8	E1	6	-134	135	137	2	1	982	.	84	137	.	1
9	E1	7	-145	146	148	2	1	931	.	43	148	.	1
10	E1	8	-165	166	167	1	1	996	.	76	167	.	1
11	E1	9	-189	190	190	.	1	990	.	96	190	.	1
12	E1	10	-215	216	215	-1	1	1000	.	63	215	.	1
13	E1	11	-229	230	230	.	1	996	.	96	230	.	1
14	E1	12	-240	241	240	-1	1	981	.	83	240	.	1
15	E1	13	-255	256	255	-1	1	962	.	62	255	.	1
16	E2	2	-253	254	253	-1	1	969	.	72	253	.	1
17	E2	3	-282	282	281	-1	1	977	.	97	281	.	1
18	E2	4	-289	289	289	.	1	994	.	117	289	.	1
19	E2	5	-292	292	291	-1	1	971	.	43	291	.	1
20	E2	6	-298	298	298	.	1	993	.	83	298	.	1
21	E2	7	-327	327	327	.	1	997	.	63	326	-1	1
22	E2	8	-332	332	331	-1	1	987	.	75	331	.	1
23	E2	9	-343	343	342	-1	1	986	.	130	342	.	1
24	E2	10	-354	354	.	.	.	.	.	129	354	.	1
25	E2	11	-357	357	356	-1	1	988	.	97	356	.	1
26	E2	12	-354	354	353	-1	1	994	.	78	353	.	1
27	E2	13	-357	357	357	.	1	982	.	75	357	.	1
28	E2	14	-379	379	378	-1	1	993	.	63	378	.	1
29	E2	15	-408	408	408	.	1	980	.	173	408	.	1
30	E3	2	-419	419	419	.	1	951	.	43	419	.	1
31	E3	3	-450	450	450	.	1	968	.	43	450	.	1
32	E3	4	-456	456	455	-1	1	956	.	164	455	.	1
33	E3	5	-455	455	.	.	.	.	.	83	454	.	1
34	E3	6	-484	483	483	.	1	983	.	92	483	.	1
35	E3	7	-509	508	508	.	1	983	.	112	508	.	1
36	E3	8	-558	557	558	1	1	983	.	106	558	.	1
37	E3	9	-665	664	666	2	1	989	.	104	665	-1	1
38	E3	10	-674	673	673	.	1	988	.	106	674	1	1
39	E3	11	-698	696	.	.	.	.	.	106	.	.	.
40	E4	2	-253	254	253	-1	1	984	.	65	253	.	1
41	E4	3	-624	623	624	1	1	995	.	95	624	.	1
42	E4	4	-480	479	479	.	1	987	.	98	479	.	1

QUANTITATION REPORT FILE: CTB50509A11

DATA: CTB50509A11.TI
05/09/85 10:50:00
SAMPLE: 5 ML H20
)NDS. :
SUBMITTED BY: STD 1839 ANALYST: 11

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUORDBENZENE
42	# DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	198	10:04	1	1.000	A BV	59681.	50.000 UG/L	0.87
2	50	41	2:05	1	0.207	A BB	106709.	58.529 UG/L	1.02

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	60	3:03	1	0.303	A BV	120215.	57.108	UG/L	0.99
4	62	76	3:52	1	0.384	A BB	104545.	58.666	UG/L	1.02
5	64	95	4:50	1	0.480	A BB	58353.	55.845	UG/L	0.97
6	84	137	6:58	1	0.692	A BV	100243.	39.042	UG/L	0.68
7	43	148	7:31	1	0.747	A VV	16526.	45.464	UG/L	0.79
8	76	167	8:29	1	0.843	A BV	151940.	43.365	UG/L	0.75
9	96	190	9:39	1	0.960	A BB	64135.	35.416	UG/L	0.62
10	63	215	10:56	1	1.086	A BB	118359.	35.323	UG/L	0.61
11	96	230	11:41	1	1.162	A BV	68803.	35.657	UG/L	0.62
12	83	240	12:12	1	1.212	A BV	164321.	36.472	UG/L	0.63
13	62	255	12:58	1	1.288	A BB	114257.	37.077	UG/L	0.64
14	114	404	20:32	14	1.000	A BV	309281.	50.000	UG/L	0.87
15	72	253	12:52	14	0.626	A BB	5764.	47.182	UG/L	0.82
16	97	281	14:17	14	0.696	A BV	128736.	36.633	UG/L	0.64
17	117	289	14:41	14	0.715	A VV	130225.	36.166	UG/L	0.63
18	43	291	14:48	14	0.720	A BV	93373.	45.475	UG/L	0.79
19	83	298	15:09	14	0.738	A BB	149678.	36.777	UG/L	0.64
20	63	326	16:34	14	0.807	A BB	86614.	36.971	UG/L	0.64
21	75	331	16:50	14	0.819	A VV	55875.	34.760	UG/L	0.60
22	130	342	17:23	14	0.847	A BV	133633.	37.082	UG/L	0.64
23	129	354	18:00	14	0.876	A BV	147767.	36.350	UG/L	0.63
24	97	356	18:06	14	0.881	A VB	91559.	35.952	UG/L	0.62
25	78	353	17:57	14	0.874	A BB	255899.	36.617	UG/L	0.64
26	75	357	18:09	14	0.884	A BB	192487.	36.165	UG/L	0.63
27	63	378	19:13	14	0.936	A BV	37871.	35.722	UG/L	0.62
28	173	408	20:44	14	1.010	A BV	94340.	35.700	UG/L	0.62
29	117	506	25:43	29	1.000	A BV	322432.	50.000	UG/L	0.87
30	43	419	21:18	29	0.828	A BB	56024.	46.162	UG/L	0.80
1	43	450	22:52	29	0.889	A BB	34583.	44.389	UG/L	0.77
2	164	455	23:08	29	0.899	A BB	140819.	36.597	UG/L	0.64
33	83	454	23:05	29	0.897	A BV	130040.	37.192	UG/L	0.65
34	92	483	24:33	29	0.955	A BV	204787.	36.702	UG/L	0.64
35	112	508	25:49	29	1.004	A BV	313395.	37.372	UG/L	0.65
36	106	558	28:22	29	1.103	A BB	170860.	38.474	UG/L	0.67
37	104	665	33:48	29	1.314	A BB	346503.	47.327	UG/L	0.82
38	106	674	34:16	29	1.332	A BB	234997.	46.967	UG/L	0.82
39	106	701	35:38	29	1.385	A BB	407193.	4016.310	UG/L	69.81
40	65	253	12:52	1	1.278	A BV	122010.	49.725	UG/L	0.86
41	95	624	31:43	29	1.233	A BB	311915.	51.991	UG/L	0.90
42	98	479	24:21	1	2.419	A BV	348154.	48.592	UG/L	0.84

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:01	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:05	1.00	10.000	0.02	58.53	50.00	1.788	1.527	1.17
3	3:00	1.02	10.000	0.03	57.11	50.00	2.014	1.764	1.14
4	3:43	1.04	10.000	0.04	58.67	50.00	1.752	1.493	1.17
5	4:38	1.04	10.000	0.05	55.85	50.00	0.978	0.875	1.12
6	6:49	1.02	5.000	0.14	39.04	50.00	1.680	2.151	0.78
7	7:22	1.02	10.000	0.07	45.46	50.00	0.277	0.305	0.91
8	8:23	1.01	5.000	0.17	43.37	50.00	2.546	2.935	0.87
9	9:36	1.01	5.000	0.19	35.42	50.00	1.075	1.517	0.71
10	10:56	1.00	5.000	0.22	35.32	50.00	1.983	2.807	0.71
11	11:38	1.00	5.000	0.23	35.66	50.00	1.153	1.617	0.71
12	12:12	1.00	5.000	0.24	36.47	50.00	2.753	3.775	0.73
3	12:58	1.00	5.000	0.26	37.08	50.00	1.914	2.582	0.74
4	20:35	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52	1.00	10.000	0.06	47.18	50.00	0.019	0.020	0.94
16	14:20	1.00	5.000	0.14	36.63	50.00	0.416	0.568	0.73
17	14:41	1.00	5.000	0.14	36.17	50.00	0.421	0.582	0.72
18	14:51	1.00	10.000	0.07	45.47	50.00	0.302	0.332	0.91
19	15:09	1.00	5.000	0.15	36.78	50.00	0.484	0.658	0.74
20	16:37	1.00	5.000	0.16	36.97	50.00	0.280	0.379	0.74
21	16:53	1.00	5.000	0.16	34.76	50.00	0.181	0.260	0.70
22	17:26	1.00	5.000	0.17	37.08	50.00	0.432	0.583	0.74
23	18:00	1.00	5.000	0.18	36.35	50.00	0.478	0.657	0.73
24	18:09	1.00	5.000	0.18	35.95	50.00	0.296	0.412	0.72
25	18:00	1.00	5.000	0.17	36.62	50.00	0.827	1.130	0.73
26	18:09	1.00	5.000	0.18	36.17	50.00	0.622	0.860	0.72
27	19:16	1.00	10.000	0.09	35.72	50.00	0.122	0.171	0.71
28	20:44	1.00	5.000	0.20	35.70	50.00	0.305	0.427	0.71
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18	1.00	10.000	0.08	46.16	50.00	0.174	0.188	0.92
31	22:52	1.00	10.000	0.09	44.39	50.00	0.107	0.121	0.89
32	23:11	1.00	5.000	0.18	36.60	50.00	0.437	0.597	0.73
33	23:08	1.00	5.000	0.18	37.19	50.00	0.403	0.542	0.74
34	24:36	1.00	5.000	0.19	36.70	50.00	0.635	0.865	0.73
35	25:52	1.00	5.000	0.20	37.37	50.00	0.972	1.300	0.75
36	28:22	1.00	5.000	0.22	38.47	50.00	0.530	0.689	0.77
37	33:48	1.00	5.000	0.26	47.33	50.00	1.075	1.135	0.95
38	34:16	1.00	5.000	0.27	46.97	50.00	0.729	0.776	0.94
39	35:29	1.00	5.000	0.28	4016.32	100.00	0.631	0.016	40.16
40	12:52	1.00	10.000	0.13	49.72	50.00	2.044	2.056	0.99
41	31:43	1.00	10.000	0.12	51.99	50.00	0.967	0.930	1.04
42	24:24	1.00	10.000	0.24	48.59	50.00	5.834	6.003	0.97

Internal Standard Area Monitor

Method: E237 Filename: CT850509A11 Date: 05/09/85
Shift Std: CS850509A11 Time: 10:50

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	59680.	67540.	-11.	Pass
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	309200.	356253.	-12.	Pass
* D5 CHLOROBENZENE(INTERNAL STANDARD)	322431.	371660.	-12.	Pass

CompuChem Laboratories, Inc.
GC/MS Analysis Log

ENTERED DA 5/14/85

Initial Time of Tune 8:01
Time Tune Expires 20:01

Shift(s) (A) ___ (B) ___ (C) ___
Date 5/9/85
Analysis Type E-237

Run Log

	SELECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #s, Disposition, Etc.)
1		BF850509C11		5/9/85	7:50			2ul	BD		112	14587
2	X	CB850509C11		1 1	8:14			5ul	BD		112	14579, 14581
3	X	CB850509A11		1 1	9:09			2ul	BD		112	STD 1835
4	X	CB850509BM		1 1	10:01			5ul	BD		112	14579 14581
5		CT850509A11 OK		1 1	10:50			2ul	SM		112	STD 1835 (m.c.)
6	X	CC850509AM		1 1	11:49			2ul	SM		112	14575 14581 Make 4:7 Methylene
7	X	CD850509AM		1 1	12:32			5ul	SM		112	" " Make 4 Methylene
8	X	CE850509AM		1 1	14:23			5ul	SM		112	" " Make 9 Methylene
9		CF850509AM (OK)		1 1	15:25			2ul	SM		112	
10		CN049817B11		1 1	16:44	11450	GENTES	5ul	BD		112	
11		CN049816B11		1 1	17:26	11452	GENTES	5ul	BD		112	
12		CN049815B11		1 1	18:29	11448	GENTES	5ul	BD		112	
13		CN049814B11		1 1	19:10	11446	" "	5ul	BD		112	
14		CN049813B11		1 1	19:52	507050	" "	5ul	BD		112	
15				1 1	:							
16				1 1	:							
17				1 1	:							
18				1 1	:							
19				1 1	:							
20				1 1	:							
21				1 1	:							
22				1 1	:							
23				1 1	:							
24				1 1	:							
25				1 1	:							
26				1 1	:							

5/9/85

M-O

received 5/14/85

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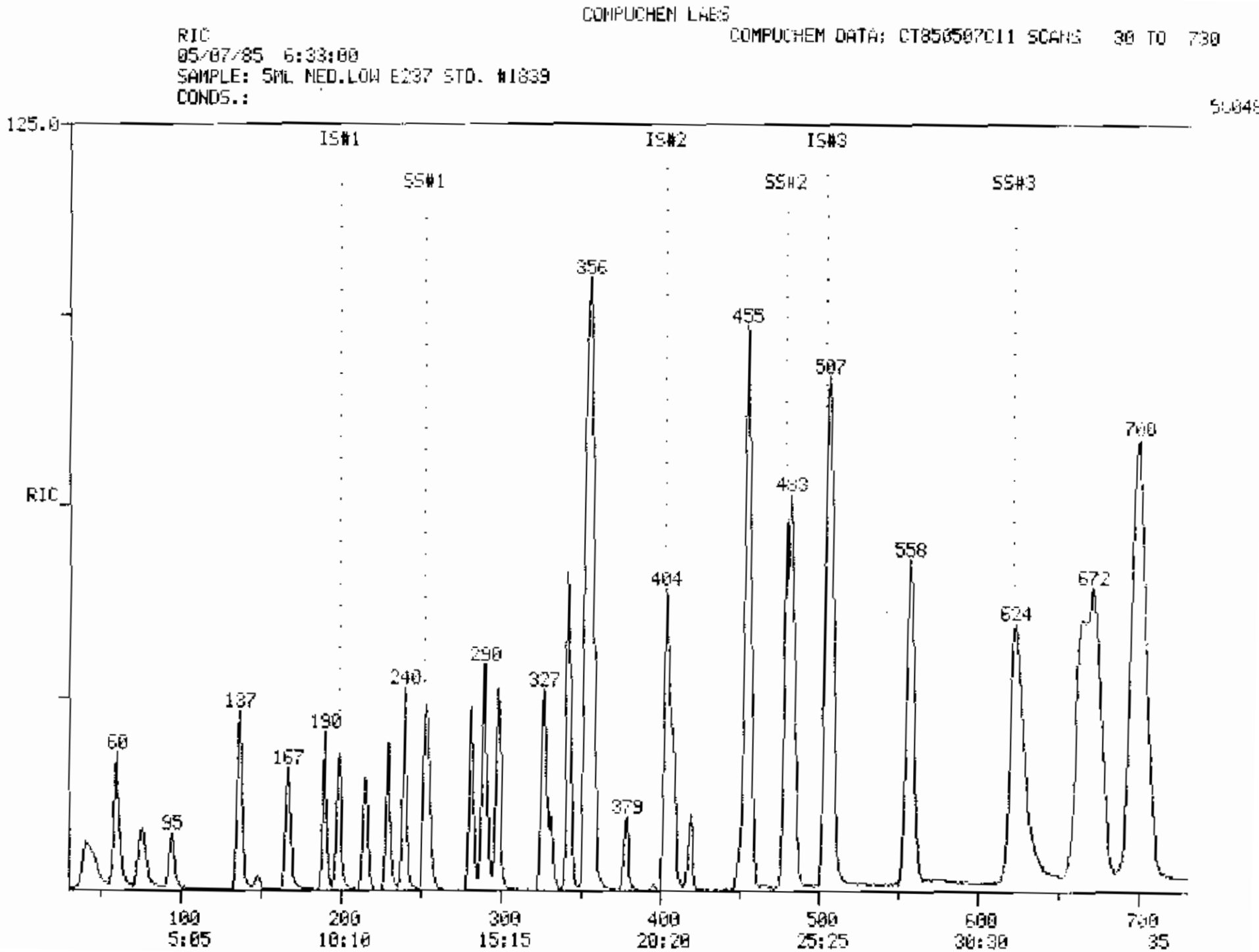
COMPUCHEM LABS
RIC
05/07/85 6:33:00
SAMPLE: 5ML MED.LOW E237 STD. #1839
CONDS.:
COMPUCHEM DATA: CT850507C11 SCANS 30 TO 730
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
60
95
137
167
190
240
290
327
356
379
404
455
483
507
558
624
672
700
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35

PROCEDURE: [illegible] [illegible]

A FILE: CT850507C11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	26	42	40	1	64	E237S/E237U

42 COMPOUNDS PROCESSED, 40 FOUND

COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	E1	1	-198	199	199	.	1	985	.	128	198	-1	1
2	E2	1	-404	404	404	.	1	996	.	114	404	.	1
3	E3	1	-505	505	505	.	1	977	.	117	505	.	1
4	E1	2	-41	42	41	-1	1	975	.	50	41	.	1
5	E1	3	-61	62	60	-2	1	950	.	94	60	.	1
6	E1	4	-76	77	76	-1	1	979	.	62	76	.	1
7	E1	5	-94	95	95	.	1	981	.	64	95	.	1
8	E1	6	-135	136	137	1	1	986	.	84	137	.	1
9	E1	7	-146	147	148	1	1	971	.	43	148	.	1
10	E1	8	-166	167	167	.	1	994	.	76	167	.	1
11	E1	9	-189	190	190	.	1	990	.	96	190	.	1
12	E1	10	-215	216	215	-1	1	997	.	63	216	1	1
[illegible]	E1	11	-229	230	230	.	1	992	.	96	230	.	1
	E1	12	-239	240	240	.	1	986	.	83	240	.	1
15	E1	13	-254	255	255	.	1	963	.	62	255	.	1
16	E2	2	-252	253	253	.	1	983	.	72	253	.	1
17	E2	3	-281	282	282	.	1	994	.	97	282	.	1
18	E2	4	-289	290	289	-1	1	993	.	117	289	.	1
19	E2	5	-291	292	291	-1	1	977	.	43	291	.	1
20	E2	6	-298	299	298	-1	1	993	.	83	298	.	1
21	E2	7	-326	327	327	.	1	992	.	63	327	.	1
22	E2	8	-331	332	331	-1	1	984	.	75	331	.	1
23	E2	9	-342	343	342	-1	1	981	.	130	342	.	1
24	E2	10	-353	354	.	.	.	.	.	129	354	.	1
25	E2	11	-356	357	356	-1	1	991	.	97	356	.	1
26	E2	12	-353	354	354	.	1	994	.	78	354	.	1
27	E2	13	-356	357	357	.	1	976	.	75	357	.	1
28	E2	14	-378	379	379	.	1	990	.	63	379	.	1
29	E2	15	-407	408	408	.	1	978	.	173	408	.	1
30	E3	2	-418	419	419	.	1	944	.	43	419	.	1
31	E3	3	-449	450	450	.	1	965	.	43	450	.	1
32	E3	4	-455	456	456	.	1	967	.	164	456	.	1
33	E3	5	-454	455	.	.	.	.	.	83	454	.	1
34	E3	6	-483	483	483	.	1	981	.	92	483	.	1
35	E3	7	-508	508	508	.	1	981	.	112	508	.	1
36	E3	8	-557	557	558	1	1	985	.	106	558	.	1
37	E3	9	-664	664	664	.	1	986	.	104	664	.	1
38	E3	10	-672	672	672	.	1	989	.	106	672	.	1
	E3	11	-699	699	700	1	1	986	.	106	700	.	1
[illegible]	E4	2	-252	253	253	.	1	990	.	65	253	.	1
41	E4	3	-623	623	623	.	1	994	.	95	623	.	1
42	E4	4	-479	479	479	.	1	982	.	98	479	.	1

QUANTITATION REPORT FILE: CT850507C11

DATA: CT850507C11 TI
05/07/85 6:33:00
SAMPLE: 5ML MED. LOW E237 STD. #1839
CONDS. :
SUBMITTED BY: 11 ANALYST: 817

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* . BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1, 1-DICHLOROETHYLENE
10	214 1, 1-DICHLOROETHANE
11	226 TRANS-1, 2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1, 2-DICHLOROETHANE
14	* 1, 4 DIFLUOROBENZENE (INTERNAL STANDARD)
	253 2-BUTANONE
	227 1. 1, 1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1, 2-DICHLOROPROPANE
21	250 TRANS-1, 3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1, 1, 2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1, 3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLORDETHENE
33	223 1, 1, 2, 2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1, 2-DICHLOROETHANE
	# BROMOFLUOROBENZENE
	# D8-TOLUENE

lcf 5/7/85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	198	10:04	1	1.000	A BV	58488.	50.000 UG/L	2.18
2	50	41	2:05	1	0.207	A BB	135710.	54.866 UG/L	2.39

#	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	60	3:03	1	0.303	A BV	151982.	51.621	UG/L	2.25
4	62	76	3:52	1	0.384	A BB	126595.	52.936	UG/L	2.31
5	64	95	4:50	1	0.480	A BB	65651.	51.050	UG/L	2.23
6	84	137	6:58	1	0.692	A BV	110795.	54.359	UG/L	2.37
7	43	148	7:31	1	0.747	A BV	22391.	60.711	UG/L	2.65
8	76	167	8:29	1	0.843	A BB	256175.	68.894	UG/L	3.01
9	96	190	9:39	1	0.960	A BV	72826.	55.060	UG/L	2.40
10	63	216	10:59	1	1.091	A BB	129896.	56.495	UG/L	2.47
11	96	230	11:41	1	1.162	A BB	78980.	56.438	UG/L	2.46
12	83	240	12:12	1	1.212	A BV	178450.	56.262	UG/L	2.46
13	62	255	12:58	1	1.288	A BB	125813.	55.794	UG/L	2.44
14	114	404	20:32	14	1.000	A BB	323679.	50.000	UG/L	2.18
15	72	253	12:52	14	0.626	A BB	7214.	47.258	UG/L	2.06
16	97	282	14:20	14	0.698	A BB	141907.	53.353	UG/L	2.33
17	117	289	14:41	14	0.715	A VB	148802.	52.554	UG/L	2.29
18	43	291	14:48	14	0.720	A BB	127915.	50.041	UG/L	2.18
19	83	298	15:09	14	0.738	A BV	171932.	52.876	UG/L	2.31
20	63	327	16:37	14	0.809	A BB	97045.	53.950	UG/L	2.35
21	75	331	16:50	14	0.819	A BB	68249.	56.983	UG/L	2.49
22	130	342	17:23	14	0.847	A BV	157910.	53.878	UG/L	2.35
23	129	354	18:00	14	0.876	A BV	181683.	52.097	UG/L	2.27
24	97	356	18:06	14	0.881	A VB	114116.	54.055	UG/L	2.36
25	78	354	18:00	14	0.876	A BV	305076.	53.800	UG/L	2.35
26	75	357	18:09	14	0.884	A BV	232036.	53.400	UG/L	2.33
27	63	379	19:16	14	0.938	A BB	43826.	43.375	UG/L	1.89
28	173	408	20:44	14	1.010	A BB	112442.	53.665	UG/L	2.34
29	117	505	25:40	29	1.000	A BV	341065.	50.000	UG/L	2.18
30	43	419	21:18	29	0.830	A BV	70908.	52.817	UG/L	2.31
31	43	450	22:52	29	0.891	A BV	44720.	54.221	UG/L	2.37
32	164	456	23:11	29	0.903	A BV	162317.	54.403	UG/L	2.37
33	83	454	23:05	29	0.899	A BV	155010.	55.545	UG/L	2.42
34	92	483	24:33	29	0.956	A BV	245840.	54.141	UG/L	2.36
35	112	508	35:49	29	1.006	A BV	380245.	54.236	UG/L	2.37
36	106	558	28:22	29	1.105	A BV	197727.	53.502	UG/L	2.34
37	104	664	33:45	29	1.315	A BB	456126.	49.867	UG/L	2.18
38	106	672	34:10	29	1.331	A BB	306022.	49.987	UG/L	2.18
39	106	700	35:35	29	1.386	A BB	598245.	100.308	UG/L	4.38
40	65	253	12:52	1	1.278	A BV	119002.	53.013	UG/L	2.31
41	95	623	31:40	29	1.234	A BB	319768.	51.412	UG/L	2.24
42	98	479	24:21	1	2.419	A BV	372837.	52.027	UG/L	2.27

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:04	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:05	1.00	10.000	0.02	54.87	50.00	2.324	2.118	1.10
3	3:06	0.98	10.000	0.03	51.62	50.00	2.599	2.517	1.03
4	3:52	1.00	10.000	0.04	52.94	50.00	2.164	2.044	1.06
5	4:47	1.01	10.000	0.05	51.05	50.00	1.122	1.099	1.02
6	6:52	1.01	5.000	0.14	54.36	50.00	1.894	1.742	1.09
7	7:25	1.01	10.000	0.07	60.71	50.00	0.383	0.315	1.21
9	8:26	1.01	5.000	0.17	68.89	50.00	4.380	3.179	1.38
	9:36	1.01	5.000	0.19	55.06	50.00	1.245	1.131	1.10
10	10:56	1.00	5.000	0.22	56.49	50.00	2.221	1.966	1.13
11	11:38	1.00	5.000	0.23	56.44	50.00	1.350	1.196	1.13
12	12:09	1.00	5.000	0.24	56.26	50.00	3.051	2.711	1.13
13	12:55	1.00	5.000	0.26	55.79	50.00	2.151	1.928	1.12
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:49	1.00	10.000	0.26	47.26	50.00	0.022	0.024	0.75
16	14:17	1.00	5.000	0.14	53.35	50.00	0.438	0.411	1.07
17	14:41	1.00	5.000	0.14	52.55	50.00	0.460	0.437	1.05
18	14:48	1.00	10.000	0.07	50.04	50.00	0.395	0.395	1.00
19	15:09	1.00	5.000	0.15	52.88	50.00	0.531	0.502	1.06
20	16:34	1.00	5.000	0.16	53.95	50.00	0.300	0.278	1.08
21	16:50	1.00	5.000	0.16	56.98	50.00	0.211	0.185	1.14
22	17:23	1.00	5.000	0.17	53.88	50.00	0.488	0.453	1.08
23	17:57	1.00	5.000	0.18	52.10	50.00	0.561	0.539	1.04
24	18:06	1.00	5.000	0.18	54.06	50.00	0.353	0.326	1.08
25	17:57	1.00	5.000	0.18	53.80	50.00	0.943	0.876	1.08
26	18:06	1.00	5.000	0.18	53.40	50.00	0.717	0.671	1.07
27	19:13	1.00	10.000	0.09	43.37	50.00	0.135	0.156	0.87
28	20:41	1.00	5.000	0.20	53.66	50.00	0.347	0.324	1.07
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.00	10.000	0.08	52.82	50.00	0.208	0.197	1.06
31	22:49	1.00	10.000	0.09	54.22	50.00	0.131	0.121	1.08
32	23:08	1.00	5.000	0.18	54.40	50.00	0.476	0.437	1.09
33	23:05	1.00	5.000	0.18	55.55	50.00	0.454	0.409	1.11
34	24:33	1.00	5.000	0.19	54.14	50.00	0.721	0.666	1.08
35	25:49	1.00	5.000	0.20	54.24	50.00	1.115	1.028	1.08
36	28:19	1.00	5.000	0.22	53.50	50.00	0.580	0.542	1.07
37	33:45	1.00	5.000	0.26	49.87	50.00	1.337	1.341	1.00
38	34:10	1.00	5.000	0.27	49.99	50.00	0.897	0.897	1.00
[illegible]	35:32	1.00	5.000	0.28	100.31	100.00	0.877	0.874	1.00
	12:49	1.00	10.000	0.13	53.01	50.00	2.035	1.919	1.06
41	31:40	1.00	10.000	0.12	51.41	50.00	0.938	0.912	1.03
42	24:21	1.00	10.000	0.24	52.03	50.00	6.375	6.126	1.04

[illegible] INTERNAL AREA REPORT

METHOD: E237 FILENAME: CT850507C11 DATE: 05/07/25
SHIFT STD: CT850506B11 TIME: 6:33

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
* BROMOCHLOROMETHANE (IS)	58487.	66192.	-11.	PASS
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	323678.	351812.	-7.	PASS
* D5 CHLOROBENZENE(INTERNAL STANDARD)	341064.	383833.	-10.	PASS

- STD compar[illegible]

CompuChem Laboratories, Inc.
GC/MS Analysis Log

4

Initial Time of Tune 04:35
Time Tune Expires 16:35

Shift(s) (A) ___ (B) ___ (C) ___
Date 5/7/85
Analysis Type E-237

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #s, Disposition, Etc.)
1		ME0505070C11		5/7/85	04:24			2ul	817		111	14541 (500r)
2		CR850507C11		/ /	04:39			5ul	817		111	14532, 14534 OK
3	X	CS850507C11		/ /	05:49			5ul	817		111	STD. # 1839 (Four just before [illegible])
4		CT850507C11		/ /	06:33			5ul	817		111	STD. # 1839
5		CN049779C11		/ /	07:31	SS 29/613	4006	5ul	817		111	used [illegible] 49[illegible]
6		CN049780A11		/ /	8:22	SS	4003	5ul	SM		111	SS & 49784
7		CN049801A11		/ /	9:04	HB1	4007	5ul	SM		111	
8	X	CN049704A11		/ /	9:59	D2241	4251	5ul	SM		111	
9		CN049660A11		/ /	11:00	DB459	4251	5ul	SM		111	
10		CN049702A11 *		/ /	11:54	[illegible]	4251	5ul	SM		111	SS & 45652 * rerun as CN0497[illegible]
11		CN049705A11		/ /	12:37	SS	4251	5ul	SM		111	" "
12		CN049720A11		/ /	13:22	AB1	4251	5ul	SM		111	
13		CN049722A11		/ /	14:15	DB811	4007	5ul	SM		111	
14		CN049721A11		/ /	14:59	1182	4251	5ul	SM		111	
15	X	CN049733A11		/ /	15:45	DB815	4007	5ul	SM		111	Saturated with MeCl2
16	X	CN049734B11		/ /	16:25	DB814	4007	5ul	719		111	possible contamination
17				/ /	:							
18				/ /	:							
19				/ /	:							
20				/ /	:							
21				/ /	:							
22				/ /	:							
23				/ /	:							
24				/ /	:							
25				/ /	:							
26				/ /	:							

5/7/85
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[stamp, illegible] [illegible]/7/85

received 5/7/85

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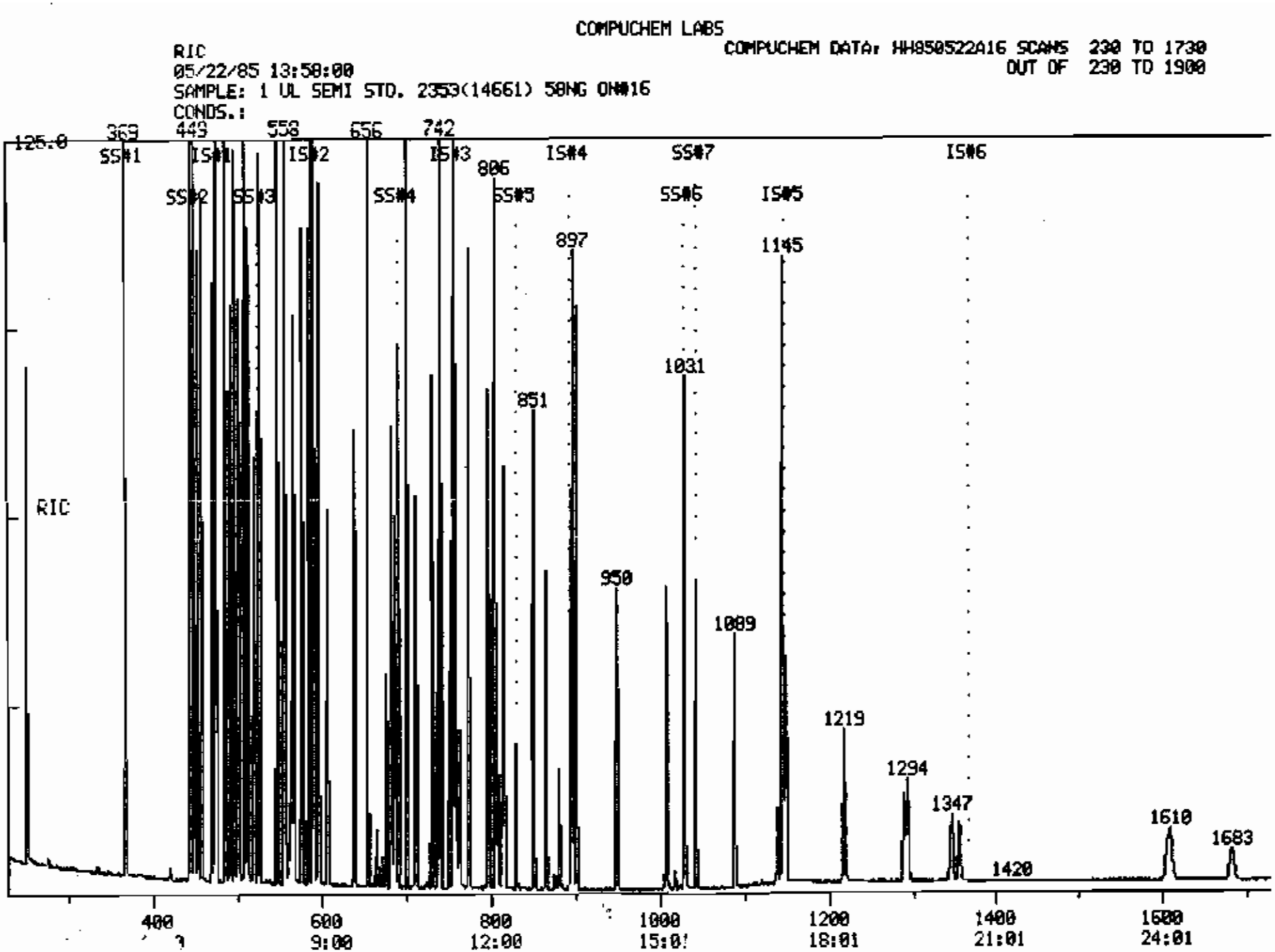
EPA CASE# Gen Test COMPUCHEM CASE SUMMARY REFERENCE GUIDE REVIEWER

fraction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
SV	DI850522A16	Hg850522A16	49805	SS					
	"	"	49806	SS					
	"	"	49803	50705A					
	"	"	49811	50705F					
	"	"	49812	50705B					
	"	"	49813	50705C					
	"	"	49814	11446					
	DH850525C07	Hg850525C07	49805	SS					
			49806	SS					
			49811	50705F					
			49812	50705B					
			51625	Blk					


COMPUCHEM LABS
RIC
05/22/85 13:58:00
SAMPLE: 1 UL SEMI STD. 2353(14661) 50NG ON#16
CONDS.:
COMPUCHEM DATA: HH850522A16 SCANS 230 TO 1730
OUT OF 230 TO 1900
125.0
369
SS#1
449
IS#1
SS#2
SS#3
558
IS#2
656
SS#4
742
IS#3
806
SS#5
IS#4
897
851
950
SS#6
1031
1089
IS#5
1145
SS#7
1219
1294
1347
1420
IS#6
1610
1683
RIC
400
600
9:00
800
12:00
1000
15:01
1200
18:01
1400
21:01
1600
24:01

COMPUCHEM LABS

RIC

COMPUCHEM DATAr HH850522A16 SCANS 1730 TO 1900

05/22/85 13:58:00

OUT OF 230 TO 1900

SAMPLE: 1 UL SEMI STD. 2353(14661) 50NG ON#16

CONDS.:

20951000.

PROCEDURE: RK DIAGNOSTIC REPORT 5/22/85 14:28:47
DATA FILE: HH850522A16
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
4	4	1	38	53	38	24	75	SEMI1S1/SEMI1U1
4	3	3	90	29	26	64	253	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 62 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	G1	1	-485	475	475	.	1	950	.	152	475	.	1
2	G2	1	-602	590	590	.	1	986	-1	136	590	.	1
3	G3	1	-771	756	756	.	1	969	.	164	756	.	1
4	G7	2	-378	369	369	.	1	912	.	112	369	.	1
5	G1	2	-260	253	.	.	.	.	.	42	253	.	1
6	G1	3	-456	446	.	.	.	.	.	94	445	.	2
7	G1	4	-459	449	.	.	.	.	-1	93	449	.	1
8	G1	5	-464	454	454	.	1	984	.	93	454	.	1
9	G1	6	-469	459	.	.	.	.	.	128	459	.	1
10	G1	7	-482	472	472	.	2	1000	.	146	471	-1	1
11	G1	8	-487	477	476	-1	2	1000	.	146	476	.	1
12	G1	9	-498	487	487	.	1	1000	.	108	487	.	1
13	G1	10	-503	492	493	1	1	934	.	146	492	-1	1
14	G1	11	-508	497	497	.	3	1000	.	108	497	.	1
15	G1	12	-512	501	.	.	.	.	-1	45	502	.	1
16	G1	13	-520	509	510	1	1	910	.	108	510	.	1
17	G1	14	-524	513	.	.	.	.	.	70	513	.	2
18	G1	15	-532	521	520	-1	1	938	.	117	520	.	1
19	G1	16	-538	527	527	.	1	912	.	77	527	.	1
20	G2	2	-559	548	.	.	.	.	-1	82	548	.	1
21	G2	3	-568	556	.	.	.	.	.	139	556	.	1
22	G2	4	-569	557	558	1	1	923	.	122	558	.	1
23	G2	5	-576	564	565	1	1	944	.	122	565	.	1
24	G2	6	-579	567	567	.	1	994	.	93	567	.	1
25	G2	7	-589	577	577	.	1	923	.	162	577	.	1
26	G2	8	-598	586	586	.	1	957	.	180	586	.	1
27	G2	9	-604	592	592	.	1	1000	-1	128	592	.	1
28	G2	10	-609	597	.	.	.	.	.	127	597	.	1
29	G2	11	-621	609	608	-1	1	946	.	225	608	.	1
30	G2	12	-653	640	640	.	1	905	.	107	640	.	1
31	G2	13	-669	656	656	.	2	1000	.	142	656	.	1
32	G3	2	-691	677	677	.	1	946	.	237	677	.	1
33	G3	3	-697	683	684	1	1	953	.	196	687	3	2
34	G3	4	-701	687	684	-3	1	928	.	196	687	3	2
35	G3	5	-716	702	702	.	1	978	.	162	702	.	1
36	G3	6	-727	713	.	.	.	.	.	65	713	.	1
37	G3	7	-746	732	732	.	1	987	.	163	732	.	1
38	G3	8	-756	742	742	.	1	965	.	152	742	.	1
39	G3	9	-766	751	.	.	.	.	.	138	751	.	1
40	G3	10	-774	759	759	.	1	1000	.	153	759	.	1
41	G3	11	-775	760	.	.	.	.	.	184	761	.	1
42	G3	12	-778	763	.	.	.	.	.	139	764	.	1
43	G3	13	-789	774	774	.	1	964	.	168	774	.	1
4	G3	14	-790	775	775	.	1	922	.	89	775	.	1
45	G3	15	-753	739	739	.	1	935	.	165	739	.	1
46	G3	16	-813	798	.	.	.	.	.	149	798	.	1
47	G3	17	-820	805	805	.	1	921	.	204	805	.	2
48	G3	18	-822	806	806	.	1	957	.	166	806	.	1
49	G3	19	-824	808	.	.	.	.	.	138	809	.	1

52	Q7	5	-705	691	692	1	1	919	.	172	691	-1
53	Q7	6	-846	830	831	1	1	886	.	141	831	.
54	Q4	1	-911	894	.	.	.	.	.	188	895	.
55	Q5	1	-1169	1148	1147	-1	1	931	.	240	1147	.
56	Q6	1	-1394	1369	1369	.	3	1000	.	264	.	.
57	Q4	2	-829	816	814	-2	1	904	.	198	814	.
58	Q4	3	-831	818	816	-2	1	893	.	169	816	.
59	Q4	4	-866	852	851	-1	1	924	.	248	851	.
60	Q4	5	-882	867	866	-1	1	944	.	284	866	.
61	Q4	6	-897	882	882	.	1	944	.	266	881	-1
62	Q4	7	-913	897	897	.	2	972	.	178	897	.
63	Q4	8	-918	902	901	-1	2	977	.	178	901	.
64	Q4	9	-966	949	950	1	1	958	.	149	949	-1
65	Q4	10	-1027	1008	1009	1	1	984	.	202	1009	.
66	Q5	2	-1037	1018	1019	1	1	962	.	184	1019	.
67	Q5	3	-1049	1029	1031	2	1	964	.	202	1031	.
68	Q5	4	-1108	1086	1089	3	1	968	.	149	1089	.
69	Q5	5	-1162	1139	1140	1	1	964	.	252	1140	.
70	Q5	6	-1167	1144	1145	1	2	947	.	228	1145	.
71	Q5	7	-1167	1144	1145	1	1	953	.	149	1145	.
72	Q5	8	-1172	1148	1150	2	2	965	.	228	1150	.
73	Q6	2	-1246	1220	1219	-1	1	988	.	149	1219	.
74	Q6	3	-1326	1298	1294	-4	2	977	.	252	1294	.
75	Q6	4	-1326	1298	1294	-4	2	977	.	252	1294	.
76	Q6	5	-1384	1354	1347	-7	1	965	.	252	1347	.
77	Q6	6	-1662	1623	.	.	.	.	.	276	1620	.
78	Q6	7	-1666	1627	.	.	.	.	.	278	.	.
79	Q6	8	-1743	1702	.	.	.	.	.	276	1699	.
80	Q7	7	-1061	1041	1043	2	1	987	.	244	1043	.
81	Q8	2	-1048	1028	1030	2	1	945	.	212	1029	-1

```
QUANTITATION REPORT    FILE: HH850522A16

DATA: HH850522A16.TI
05/22/85 13:58:00
  MPLE: 1 UL SEMI STD. 2353(14661) 50NG ON#16
  NDS.:
SUBMITTED BY: 16            ANALYST: 740

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  *494 D4-1,4-DICHLORLBENZENE (IS#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  610 PHENOL (G1#3) <108-95-2>
  4  473 ANILINE (G1#4) <62-53-3>
  5  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
  6  601 2-CHLOROPHENOL (G1#6) <95-57-8>
  7  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
  8  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
  9  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 10  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 11  620 2-METHYLPHENOL (G1#11) <95-48-7>
 12  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 13  622 4-METHYLPHENOL (G1#13) <106-44-5>
 14  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 15  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 16  440 NITROBENZENE (G1#16) <98-95-3>
 17  *460 D8-NAPHTHALENE (IS#2)
 18  438 ISOPHORONE (G2#2) <78-59-1>
  ?  606 2-NITROPHENOL (G2#3) <88-75-5>
 .0  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 21  625 BENZOIC ACID (G2#5) <65-85-0>
 22  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 23  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 24  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 25  439 NAPHTHALENE (G2#9) <91-20-3>
 26  475 4-CHLOROANILINE (G2#10) <106-47-8>
 27  434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
 28  608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
 29  477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
 30  *495 D10-ACENAPHTHENE (IS#3)
 31  435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
 32  611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
 33  626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
 34  416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
 35  478 2-NITROANILINE (G3#6) <88-74-4>
 36  425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
 37  402 ACENAPHTHYLENE (G3#8) <208-96-8>
 38  479 3-NITROANILINE (G3#9) <99-09-2>
 39  401 ACENAPHTHENE (G3#10) <83-32-9>
 40  605 2,4-DINITROPHENOL (G3#11) <51-28-5>
 41  607 4-NITROPHENOL (G3#12) <100-02-7>
 42  476 DIBENZOFURAN (G3#13) <132-64-9>
 43  427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
 44  428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
  )  424 DIETHYL PHTHALATE (G3#16) <84-66-2>
 46  417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
```

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
?	#467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	#459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	#497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
?	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENEZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	475	7:08	1	1.000	A VB	2259450.	40.000 NG	0.98
2	42	253	3:48	1	0.533	A VV	6294870.	50.000 NG	1.22
3	94	445	6:41	1	0.937	A BB	8212540.	50.000 NG	1.22
4	93	449	6:44	1	0.945	A VV	8776440.	50.000 NG	1.22
5	93	454	6:49	1	0.956	A VV	8013690.	50.000 NG	1.22
6	128	459	6:53	1	0.966	A BB	4727510.	50.000 NG	1.22
7	146	471	7:04	1	0.992	A BV	4491710.	50.000 NG	1.22
8	146	476	7:09	1	1.002	A VB	5256730.	50.000 NG	1.22
9	108	487	7:19	1	1.025	A BV	3730330.	30.000 NG	1.22
10	146	492	7:23	1	1.036	A BB	4194870	50.000 NG	1.22
11	108	497	7:28	1	1.046	A VV	4870230.	50.000 NG	1.22
12	45	502	7:32	1	1.057	A VV	17814000.	50.000 NG	1.22
13	108	510	7:39	1	1.074	A BV	9279550.	50.000 NG	1.22
14	70	513	7:42	1	1.080	A+VV	6669840.	50.000 NG	1.22
15	117	520	7:48	1	1.095	A BB	2353880.	50.000 NG	1.22
16	77	527	7:55	1	1.109	A BB	7337710.	50.000 NG	1.22
7	136	590	8:51	17	1.000	A BV	8288830.	40.000 NG	0.98
8	82	548	8:14	17	0.929	A VV	11606700.	50.000 NG	1.22
19	139	556	8:21	17	0.942	A BV	2034360.	50.000 NG	1.22

5-22-85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	558	8:23	17	0.946	A BV	3711160.	50.000	NG	1.22
21	122	565	8:29	17	0.958	A VV	1566650.	50.000	NG	1.22
2	93	567	8:31	17	0.961	A BV	6795610.	50.000	NG	1.22
3	162	577	8:40	17	0.978	A BB	2555770.	50.000	NG	1.22
24	180	586	8:48	17	0.993	A BB	2750360.	50.000	NG	1.22
25	128	592	8:53	17	1.003	A BV	10616700.	50.000	NG	1.22
26	127	597	8:58	17	1.012	A VV	4453720.	50.000	NG	1.22
27	225	608	9:08	17	1.031	A BB	1157950.	50.000	NG	1.22
28	107	640	9:36	17	1.085	A BV	3510780.	50.000	NG	1.22
29	142	656	9:51	17	1.112	A BB	6195070.	50.000	NG	1.22
30	164	756	11:21	30	1.000	A BB	3170550.	40.000	NG	0.98
31	237	677	10:10	30	0.896	A BB	884096.	50.000	NG	1.22
32	196	687	10:19	30	0.909	A*BB	2440540. 1220279	100.000	NG	2.44
33	196	687	10:19	30	0.909	A*BB	2440540. 1220279	100.000	NG	2.44
34	162	702	10:32	30	0.929	A BB	5276670.	50.000	NG	1.22
35	65	713	10:42	30	0.943	A BV	2717210.	50.000	NG	1.22
36	163	732	10:59	30	0.968	A BV	4915870.	50.000	NG	1.22
37	152	742	11:08	30	0.981	A VV	7970550.	50.000	NG	1.22
38	138	751	11:16	30	0.993	A BV	1149980.	50.000	NG	1.22
39	153	759	11:24	30	1.004	A BB	5698270.	50.000	NG	1.22
40	184	761	11:25	30	1.007	A BB	235904.	50.000	NG	1.22
41	139	764	11:28	30	1.011	A VV	761248.	50.000	NG	1.22
42	168	774	11:37	30	1.024	A BB	6176090.	50.000	NG	1.22
43	89	775	11:38	30	1.025	A BB	1615450.	50.000	NG	1.22
44	165	739	11:06	30	0.978	A BB	969824.	50.000	NG	1.22
45	149	798	11:59	30	1.056	A BV	5479070.	50.000	NG	1.22
46	204	805	12:05	30	1.065	A*BB	1763070.	50.000	NG	1.22
47	166	806	12:06	30	1.066	A BB	4739390.	50.000	NG	1.22
8	138	809	12:09	30	1.070	A BV	1000380.	50.000	NG	1.22
49	188	895	13:26	49	1.000	A BB	3680950.	40.000	NG	0.98
50	198	814	12:13	49	0.909	A BV	369568.	50.000	NG	1.22
51	169	816	12:15	49	0.912	A BV	2832120.	50.000	NG	1.22
52	248	851	12:46	49	0.951	A BB	913088.	50.000	NG	1.22
53	284	866	13:00	49	0.968	A BB	1044280.	50.000	NG	1.22
54	266	881	13:13	49	0.984	A BB	354208.	50.001	NG	1.22
55	178	897	13:28	49	1.002	A BV	5677400.	50.000	NG	1.22
56	178	901	13:31	49	1.007	A VV	5273180.	50.000	NG	1.22
57	149	949	14:15	49	1.060	A VV	6792310.	50.000	NG	1.22
58	202	1009	15:09	49	1.127	A VV	4024670.	50.000	NG	1.22
59	240	1147	17:13	59	1.000	A BV	1553050.	40.000	NG	0.98
60	184	1019	15:18	59	0.888	A BB	215680.	50.000	NG	1.22
61	202	1031	15:29	59	0.899	A VV	4445880.	50.000	NG	1.22
62	149	1089	16:21	59	0.949	A VV	1851930.	50.000	NG	1.22
63	252	1140	17:07	59	0.994	A BV	462944.	50.000	NG	1.22
64	228	1145	17:11	59	0.998	A BV	2782550.	50.000	NG	1.22
65	149	1145	17:11	59	0.998	A VV	2810250.	50.000	NG	1.22
66	228	1150	17:16	59	1.003	A VV	2258650.	50.000	NG	1.22
67	264	1357	20:22	67	1.000	A BB	1156030.	40.000	NG	0.98
68	149	1219	18:18	67	0.898	A VV	3812790.	50.000	NG	1.22
69	252	1294	19:25	67	0.954	A VB	1821530. 760765	50.000	NG	1.22
70	252	1294	19:25	67	0.954	A VB	1821530. 760765	50.000	NG	1.22
71	252	1347	20:13	67	0.993	A BB	1465590.	50.000	NG	1.22
72	276	1607	24:07	67	1.184	A BB	1546870.	50.000	NG	1.22
73	278	1611	24:11	67	1.187	A BB	1246680.	50.000	NG	1.22
4	276	1683	25:16	67	1.240	A BB	1224400.	50.000	NG	1.22
75	112	369	5:32	1	0.777	A VV	5859580.	50.001	NG	1.22

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	444	6:40	1	0.935	A BV	7911190.	50.001	NG	1.22
77	82	525	7:53	17	0.890	A VV	6536760.	50.001	NG	1.22
8	172	691	10:22	30	0.914	A BB	5373300.	50.001	NG	1.22
79	141	831	12:28	30	1.099	A*BV	267328.	50.001	NG	1.22
80	244	1043	15:39	59	0.909	A VV	2696120.	50.001	NG	1.22
81	212	1029	15:27	59	0.897	A VV	3529690.	50.000	NG	1.22

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:48	1.00	10.000	0.05	50.00	50.00	2.229	2.229	1.00
3	6:41	1.00	10.000	0.09	50.00	50.00	2.908	2.908	1.00
4	6:44	1.00	10.000	0.09	50.00	50.00	3.107	3.107	1.00
5	6:49	1.00	10.000	0.10	50.00	50.00	2.837	2.837	1.00
6	6:53	1.00	10.000	0.10	50.00	50.00	1.674	1.674	1.00
7	7:04	1.00	10.000	0.10	50.00	50.00	1.590	1.590	1.00
8	7:09	1.00	10.000	0.10	50.00	50.00	1.861	1.861	1.00
9	7:19	1.00	10.000	0.10	50.00	50.00	1.321	1.321	1.00
10	7:23	1.00	10.000	0.10	50.00	50.00	1.485	1.485	1.00
11	7:28	1.00	10.000	0.10	50.00	50.00	1.724	1.724	1.00
12	7:32	1.00	10.000	0.11	50.00	50.00	6.307	6.307	1.00
13	7:39	1.00	10.000	0.11	50.00	50.00	1.869	1.869	1.00
14	7:42	1.00	10.000	0.11	50.00	50.00	2.362	2.362	1.00
15	7:48	1.00	10.000	0.11	50.00	50.00	0.833	0.833	1.00
16	7:55	1.00	10.000	0.11	50.00	50.00	2.598	2.598	1.00
17	8:51	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:14	1.00	10.000	0.09	50.00	50.00	1.120	1.120	1.00
19	8:21	1.00	10.000	0.09	50.00	50.00	0.196	0.196	1.00
20	8:23	1.00	10.000	0.09	50.00	50.00	0.358	0.358	1.00
1	8:29	1.00	50.000	0.02	50.00	50.00	0.151	0.151	1.00
22	8:31	1.00	10.000	0.10	50.00	50.00	0.656	0.656	1.00
23	8:40	1.00	10.000	0.10	50.00	50.00	0.247	0.247	1.00
24	8:48	1.00	10.000	0.10	50.00	50.00	0.265	0.265	1.00
25	8:53	1.00	10.000	0.10	50.00	50.00	1.025	1.025	1.00
26	8:58	1.00	10.000	0.10	50.00	50.00	0.430	0.430	1.00
27	9:08	1.00	10.000	0.10	50.00	50.00	0.112	0.112	1.00
28	9:36	1.00	10.000	0.11	50.00	50.00	0.339	0.339	1.00
29	9:51	1.00	10.000	0.11	50.00	50.00	0.598	0.598	1.00
30	11:21	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:10	1.00	10.000	0.09	50.00	50.00	0.223	0.223	1.00
32	10:19	1.00	10.000	0.09	100.00	100.00	0.308	0.308	1.00
33	10:19	1.00	100.000	0.01	100.00	100.00	0.308	0.308	1.00
34	10:32	1.00	10.000	0.09	50.00	50.00	1.331	1.331	1.00
35	10:42	1.00	50.000	0.02	50.00	50.00	0.686	0.686	1.00
36	10:59	1.00	10.000	0.10	50.00	50.00	1.240	1.240	1.00
37	11:08	1.00	10.000	0.10	50.00	50.00	2.011	2.011	1.00
38	11:16	1.00	50.000	0.02	50.00	50.00	0.290	0.290	1.00
39	11:24	1.00	10.000	0.10	50.00	50.00	1.438	1.438	1.00
40	11:25	1.00	50.000	0.02	50.00	50.00	0.060	0.060	1.00
41	11:28	1.00	50.000	0.02	50.00	50.00	0.192	0.192	1.00
42	11:37	1.00	10.000	0.10	50.00	50.00	1.558	1.558	1.00
43	11:38	1.00	10.000	0.10	50.00	50.00	0.408	0.408	1.00
44	11:06	1.00	10.000	0.10	50.00	50.00	0.245	0.245	1.00
45	11:59	1.00	10.000	0.11	50.00	50.00	1.382	1.382	1.00
46	12:05	1.00	10.000	0.11	50.00	50.00	0.445	0.445	1.00
47	12:06	1.00	10.000	0.11	50.00	50.00	1.196	1.196	1.00
48	12:09	1.00	50.000	0.02	50.00	50.00	0.252	0.252	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
49	13:26	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:13	1.00	50.000	0.02	50.00	50.00	0.080	0.080	1.00
51	12:15	1.00	10.000	0.09	50.00	50.00	0.616	0.616	1.00
52	12:46	1.00	10.000	0.10	50.00	50.00	0.198	0.198	1.00
53	13:00	1.00	10.000	0.10	50.00	50.00	0.227	0.227	1.00
54	13:13	1.00	50.000	0.02	50.00	50.00	0.077	0.077	1.00
55	13:28	1.00	10.000	0.10	50.00	50.00	1.234	1.234	1.00
56	13:31	1.00	10.000	0.10	50.00	50.00	1.146	1.146	1.00
57	14:15	1.00	10.000	0.11	50.00	50.00	1.476	1.476	1.00
58	15:09	1.00	10.000	0.11	50.00	50.00	0.875	0.875	1.00
59	17:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:18	1.00	50.000	0.02	50.00	50.00	0.111	0.111	1.00
61	15:29	1.00	10.000	0.09	50.00	50.00	2.290	2.290	1.00
62	16:21	1.00	10.000	0.09	50.00	50.00	0.954	0.954	1.00
63	17:07	1.00	20.000	0.05	50.00	50.00	0.238	0.238	1.00
64	17:11	1.00	10.000	0.10	50.00	50.00	1.433	1.433	1.00
65	17:11	1.00	10.000	0.10	50.00	50.00	1.448	1.448	1.00
66	17:16	1.00	10.000	0.10	50.00	50.00	1.163	1.163	1.00
67	20:22	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:18	1.00	10.000	0.09	50.00	50.00	2.639	2.639.	1.00
69	19:25	1.00	10.000	0.10	50.00	50.00	1.053	1.053	1.00
70	19:25	1.00	10.000	0.10	50.00	50.00	1.053	1.053	1.00
71	20:13	1.00	10.000	0.10	50.00	50.00	1.014	1.014	1.00
72	24:07	1.00	10.000	0.12	50.00	50.00	1.070	1.070	1.00
73	24:11	1.00	10.000	0.12	50.00	50.00	0.863	0.863	1.00
74	25:16	1.00	10.000	0.12	50.00	50.00	0.847	0.847	1.00
75	5:32	1.00	0.742	1.05	50.00	50.00	2.075	2.075	1.00
76	6:40	1.00	0.948	0.99	50.00	50.00	2.801	2.801	1.00
77	7:53	1.00	0.875	1.02	50.00	50.00	0.631	0.631	1.00
78	10:22	1.00	0.906	1.01	50.00	50.00	1.356	1.356	1.00
79	12:28	1.00	1.118	0.98	50.00	50.00	0.067	0.067	1.00
80	15:39	1.00	0.907	1.00	50.00	50.00	1.389	1.389	1.00
81	15:27	1.00	0.906	0.99	50.00	50.00	1.818	1.818	1.00

SC850522A/6

ENIVOR.	% RECOVERY
2 FLUOROPHENOL	$\frac{41.8}{50} \times 100 = 84$
DS PHENOL	$\frac{39.7}{50} \times 100 = 79$
TRIBROMOPHNOL	$\frac{30.6}{50} \times 100 = 61$

$$\% \text{ RECOVERY} = \frac{\text{QUANT REPORT VALUE}}{50} \times 100$$

% RECOVERY MUST BE GREATER THAN 75 %

COMMENTS OR CORRECTIVE ACTION TAKEN

PROCEDURE: RK DIAGNOSTIC REPORT 5/22/85 15:29:00
DATA FILE: SC850522A16
REFERENCE: SEMISUR
METHOD: SEMISUR INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMISURS

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	51	6	6	1	36	SEMISURS/SEMISURU

6 COMPOUNDS PROCESSED, 6 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEL	DELTA	PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	G1	1	-475	483	483	.	1	959	.	152	483	.	1
2	G2	1	-590	598	599	1	1	961	.	136	599	.	2
3	G3	1	-756	764	764	.	1	957	.	164	764	.	1
4	G7	2	-369	377	377	.	1	902	.	112	377	.	1
5	G7	3	-444	452	453	1	1	915	.	99	453	.	1
6	G7	6	-831	839	839	.	1	903	.	141	839	.	1

QUANTITATION REPORT FILE: SCB50522A16

DATA: SCB50522A16.TI
05/22/85 15:11:00
*PLE: 1 UL SEMI CHROMAT. CHECK 392(14624) ON#16
..NDS.:
SUBMITTED BY: 16 ANALYST: 740

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLORLBENZENE (IS#1)
2	*460 D8-NAPHTHALENE (IS#2)
3	*495 D10-ACENAPHTHENE (IS#3)
4	#619 2-FLUOROPHENOL (SS#1)
5	#612 D5-PHENOL (SS#2)
6	#628 2,4,6-TRIBROMOPHENOL (SS#5)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	483	7:15	1	1.000	A BB	1541020.	40.000	NG	17.24
2	136	599	8:59	2	1.000	A*BB	5577720.	40.000	NG	17.24
3	164	764	11:28	3	1.000	A BB	1911420.	40.000	NG	17.24
4	112	377	5:40	1	0.781	A VV	3343360.	41.530	NG	18.02
5	99	453	6:48	1	0.938	A BV	4281880.	39.680	NG	17.10
6	141	839	12:36	3	1.098	A BB	98528.	30.569	NG	13.17

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	8:51	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
3	11:21	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
4	5:32	1.02	0.742	1.05	41.83	50.00	1.736	2.075	0.84
5	6:40	1.02	0.946	0.99	39.68	50.00	2.223	2.801	0.79
6	12:28	1.01	1.116	0.98	30.57	50.00	0.041	0.067	0.61

GEN Test

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Copy 2

Initial Time of Tune 11:58
Time Tune Expires 23:58
Shift(s) (A) ✓ (B) ✓ (C)
Date 5/22/85
Analysis Type Base

Run Log

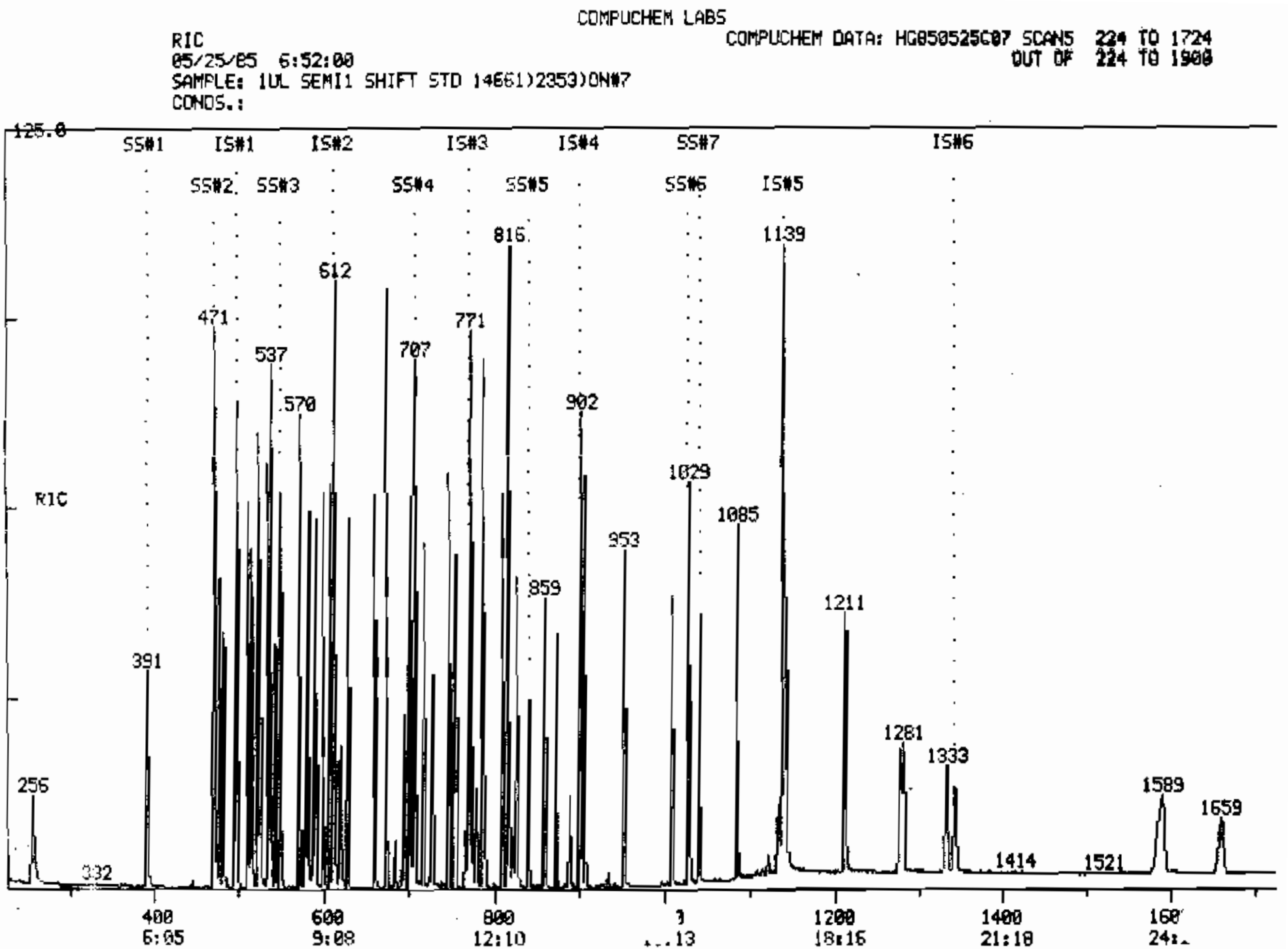
	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #s, Disposition, Etc
1	✓	DH850522A16		5/22/85	:			1ul	740		2778	
2		DI850522A16		/ /	:							
3		HG850522A16		141	:			1ul	740		2778	
4		HH850522A16		141	:			1ul	740		2778	
5		SC850522A16		141	:			1ul	740		2778	
6	RP	GH049806A16		1 "	15:38	55	Gen Test	"	"		4	
7	UP	GJ049805B16		5/22/85	16:26	55	Gctest	1L	803		2778	
8		GH049803B16		5/22/85	17:17	50705A	Gctest	1L	803		2778	
9	RP	GH049811B16		5/22/85	17:57	50705F	Gctest	1L	803		2778	
10	RP	GH049812B16		5/22/85	18:35	50705B	Gctest	1L	803		2778	
11		GH049813B16		5/22/85	20:16	50705C	Gctest	1L	803		2778	
12	RP	GH049814B16		5/22/85	:	T/Blk 11446	Gctest	1L	803	deleted	2778	IF Power fail
13		GJ049814B16		5/22/85	22:29	T/Blk 11446	Gctest	1L	803		2778	
14		GH050088B16		5/22/85	23:04	Bal	4239	1L	803		2778	
15				/ /	:							
16				/ /	:							
17				/ /	:							
18				/ /	:							
19				/ /	:							
20				/ /	:							
21				/ /	:							
22				/ /								
23				/ /	:							
24				/ /	:							
25				/ /	:							
26				/ /	:							

5/23/85

5/24/85

(MOD)

Press Hard, Multiple Copies


COMPUCHEM LABS
RIC
05/25/85 6:52:00
SAMPLE: 1UL SEMI1 SHIFT STD 14661)2353)ON#7
CONDS.:
COMPUCHEM DATA: HG850525C07 SCANS 224 TO 1724
OUT OF 224 TO 1900
125.0
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
816
1139
612
471
771
537
707
570
902
1029
1085
953
859
1211
391
1281
1333
256
1589
1659
332
1414
1521
RIC
400
6:05
600
9:08
800
12:10
1200
18:15
1400
21:18

COMPUCHEM LABS

RIC

COMPUCHEM DATA: HG850525C07 SCANS 1724 TO 1900

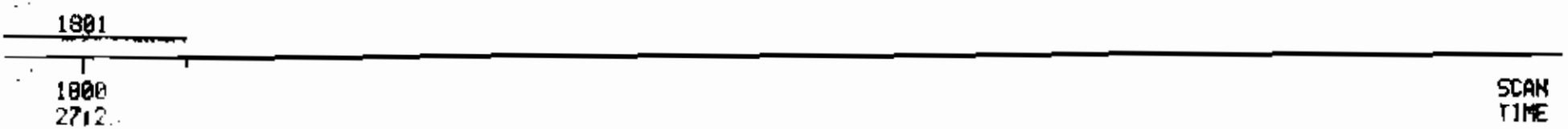
05/25/85 6:52:00

OUT OF 224 TO 1900

SAMPLE: 1UL SEMI1 SHIFT STD 14661)2353)DN#7

CONDS.:

17715100.



PROCEDURE: RK
DATA FILE: HGB50525C07
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES - STANDARD/UNKNOWN
4	4	1	0	53	39	4	86	SEMI1S1/SEMI1U1
3	3	6	138	28	26	16	105	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 65 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	G1	1	-499	498	498	.	1	969	.	152	498	.	1
2	G3	1	-769	768	768	.	1	996	.	164	768	.	1
3	G2	1	-611	610	610	.	1	992	.	136	610	.	1
4	G7	2	-392	391	391	.	1	910	.	112	391	.	1
5	G1	2	-254	254	256	2	1	915	.	42	256	.	1
6	G1	3	-472	471	.	.	.	.	.	94	471	.	1
7	G1	4	-474	473	.	.	.	.	.	93	473	.	1
8	G1	5	-479	478	478	.	1	992	.	93	478	.	1
9	G1	6	-483	482	.	.	.	.	.	128	482	.	1
10	G1	7	-496	495	495	.	2	943	.	146	495	.	1
11	G1	8	-500	499	499	.	2	943	.	146	499	.	1
12	G1	9	-512	511	511	.	1	940	.	108	511	.	1
13	G1	10	-516	515	515	.	1	940	.	146	515	.	1
14	G1	11	-523	522	522	.	1	1000	.	108	522	.	1
15	G1	12	-526	525	525	.	1	920	.	45	525	.	1
16	G1	13	-535	534	534	.	1	910	.	108	534	.	1
	G1	14	-538	537	.	.	.	.	.	70	537	.	1
18	G1	15	-544	543	542	-1	1	933	.	117	543	1	1
19	G1	16	-550	549	550	1	1	918	.	77	550	.	1
20	G2	2	-571	570	.	.	.	.	.	82	570	.	1
21	G2	3	-579	578	.	.	.	.	.	139	578	.	1
22	G2	4	-581	580	581	1	1	921	.	122	581	.	2
23	G2	5	-588	587	.	.	.	.	.	122	589	.	1
24	G2	6	-590	589	589	.	1	971	.	93	589	.	2
25	G2	7	-599	598	598	.	1	936	.	162	598	.	1
26	G2	8	-607	606	606	.	1	953	.	180	606	.	1
27	G2	9	-613	612	612	.	1	972	.	128	612	.	1
28	G2	10	-618	617	.	.	.	.	.	127	617	.	1
29	G2	11	-629	628	628	.	1	952	.	225	628	.	1
30	G2	12	-660	659	659	.	1	917	.	107	659	.	1
31	G2	13	-674	673	673	.	1	953	.	142	673	.	1
32	G3	2	-694	693	693	.	1	921	.	237	693	.	1
33	G3	3	-704	703	700	-3	1	964	.	196	700	.	2
34	G3	4	-704	703	700	-3	1	940	.	196	700	.	2
35	G3	5	-717	716	716	.	1	986	.	162	716	.	1
36	G3	6	-728	727	.	.	.	.	.	65	727	.	1
37	G3	7	-747	746	746	.	1	990	.	163	746	.	1
38	G3	8	-755	754	755	1	1	994	.	152	754	-1	1
39	G3	9	-728	727	.	.	.	.	.	138	727	.	1
40	G3	10	-772	771	771	.	1	979	.	153	771	.	1
41	G3	11	-774	773	.	.	.	.	.	184	773	.	1
42	G3	12	-786	785	.	.	.	.	.	139	785	.	1
43	G3	13	-786	785	785	.	1	989	.	168	785	.	1
44	G3	14	-788	787	787	.	1	917	.	89	787	.	2
45	G3	15	-753	752	752	.	1	933	.	165	752	.	1
46	G3	16	-810	809	.	.	.	.	.	149	809	.	1
47	G3	17	-816	815	815	.	1	918	.	204	815	.	1
48	G3	18	-817	816	816	.	1	987	.	144	816	.	1

50	Q7	3	-471	470	470		1	962	.	82	548	.	1
51	Q7	4	-549	548	548	.	1	961	.	82	548	.	1
52	Q7	5	-708	707	707	.	1	970	.	172	707	.	1
53	Q7	6	-840	838	839	1	1	947	.	141	839	.	1
54	Q4	1	-901	901	900	-1	1	984	.	188	900	.	1
55	Q5	1	-1142	1139	1140	1	1	938	.	240	1139	-1	1
	Q6	1	-1348	1343	1342	-1	6	999	.	264	1342	.	1
	Q4	2	-824	824	.	.	.	.	.	198	823	.	1
58	Q4	3	-827	827	826	-1	1	900	.	169	826	.	1
59	Q4	4	-860	860	859	-1	1	929	.	248	858	-1	1
60	Q4	5	-874	874	872	-2	1	902	.	284	872	.	1
61	Q4	6	-889	888	888	.	1	954	.	266	887	-1	1
62	Q4	7	-907	906	906	.	2	991	.	178	906	.	1
63	Q4	8	-907	906	906	.	2	990	.	178	906	.	1
64	Q4	9	-954	953	953	.	1	960	.	149	952	-1	1
65	Q4	10	-1010	1008	1009	1	1	989	.	202	1008	-1	1
66	Q5	2	-1020	1018	.	.	.	.	.	184	1018	.	1
67	Q5	3	-1031	1029	1029	.	1	995	.	202	1029	.	1
68	Q5	4	-1087	1084	1085	1	1	971	.	149	1085	.	1
69	Q5	5	-1136	1133	1134	1	1	987	.	252	1133	-1	1
70	Q5	6	-1140	1137	1138	1	2	980	.	228	1138	.	1
71	Q5	7	-1142	1139	1139	.	1	992	.	149	1139	.	1
72	Q5	8	-1145	1142	1142	.	2	988	.	228	1142	.	1
73	Q6	2	-1215	1211	1211	.	1	992	.	149	1211	.	1
74	Q6	3	-1282	1277	1281	4	1	972	.	252	1281	.	2
75	Q6	4	-1286	1281	1281	.	1	968	.	252	1281	.	2
76	Q6	5	-1338	1333	1333	.	1	986	.	252	1333	.	1
77	Q6	6	-1594	1586	1585	-1	1	985	.	276	1585	.	1
78	Q6	7	-1598	1590	1589	-1	1	953	.	278	1590	1	1
79	Q6	8	-1668	1660	1659	-1	1	978	.	276	1659	.	1
80	Q7	7	-1043	1041	1041	.	1	986	.	244	1040	-1	1
81	Q8	2	-1029	1027	1027	.	1	936	.	212	1027	.	1

Internal Standard Area Monitor

QUANTITATION REPORT FILE: HG850525C07

A: HG850525C07.T1
05/25/85 6:52:00
SAMPLE: 1UL SEMI1 SHIFT STD 14661)2353)ON#7
CONDS.:
SUBMITTED BY: 7 ANALYST: 755

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*** D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	610 PHENOL (G1#3) <108-95-2>
4	473 ANILINE (01#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
6	601 2-CHLOROPHENOL (G1#6) <95-57-8>
7	421 1,3-DICHLORODENZENE (G1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
9	474 BENZYL ALCOHOL (G1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
11	620 2-METHYLPHENOL (G1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
13	622 4-METHYLPHENOL (G1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
15	436 HEXACHLOROETHANE (G1#15) <67-72-1>
16	440 NITROBENZENE (G1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (G2#2) <78-59-1>
19	606 2-NITROPHENOL (G2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
21	625 BENZOIC ACID (G2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
25	439 NAPHTHALENE (G2#9) <91-20-3>
26	475 4-CHLOROANILINE (G2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
30	*** D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
35	478 2-NITROANILINE (G3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
37	402 ACENAPHTHYLENE (G3#8) <208-96-8>
38	479 3-NITROANILINE (G3#9) <99-09-2>
39	401 ACENAPHTHENE (G3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (G3#11) <51-28-5>
41	607 4-NITROPHENOL (G3#12) <100-02-7>
42	476 DIBENZOFURAN (03#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (03#15) <606-20-2>
45	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	*** 2-FLUOROPHENOL (SS#1)
	*** D5-PHENOL (SS#2)
	*** D5-NITROBENZENE (SS#3)
78	*** 2-FLUOROBIPHENYL (SS#4)
79	*** 2,4,6-TRIBROMOPHENOL (SS#5)
80	*** D14-TERPHENYL (SS#6)
81	*** D10 PYRENE

DMM 5/25/85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	498	7:35	1	1.000	A BB	1563640.	40.000	NG	0.95
2	42	256	3:54	1	0.514	A VV	3448160.	50.000	NG	1.19
3	94	471	7:10	1	0.946	A BV	3714650.	50.000	NG	1.19
4	93	473	7:12	1	0.950	A BV	3332790.	50.000	NG	1.19
5	93	478	7:16	1	0.960	A VV	3122970.	50.000	NG	1.19
6	128	482	7:20	1	0.968	A BV	2598550.	50.000	NG	1.19
7	146	495	7:32	1	0.994	A BV	3077430.	50.000	NG	1.19
8	146	499	7:36	1	1.002	A VV	3173020.	50.000	NG	1.19
9	108	511	7:47	1	1.026	A BV	1500790.	50.000	NG	1.19
10	146	515	7:50	1	1.034	A BB	2855990.	50.000	NG	1.19
11	108	522	7:57	1	1.048	A VB	2147900.	50.000	NG	1.19
12	45	525	7:59	1	1.054	A BV	5624410.	50.000	NG	1.19
13	108	534	8:08	1	1.072	A BV	2394940.	50.000	NG	1.19
14	70	537	8:10	1	1.078	A VV	2618490.	50.000	NG	1.19
15	117	543	8:16	1	1.090	A BB	1436760.	50.000	NG	1.19
16	77	550	8:22	1	1.104	A VV	3537690.	50.000	NG	1.19
17	136	610	9:17	17	1.000	A BV	4905690.	40.000	NG	0.95
18	82	570	8:40	17	0.934	A BV	6017180.	50.000	NG	1.19
	139	578	8:48	17	0.948	A BB	1187320.	50.000	NG	1.19

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	581	8:50	17	0.952	A*BV	2197110.	50.000	NG	1.19
21	122	589	8:58	17	0.966	A VV	1014240.	50.000	NG	1.19
22	93	589	8:58	17	0.966	A*VV	2972030.	50.000	NG	1.19
23	162	598	9:06	17	0.980	A BV	2005910.	50.000	NG	1.19
	180	606	9:13	17	0.993	A BB	2364700.	50.000	NG	1.19
25	128	612	9:19	17	1.003	A VV	6831870.	50.000	NG	1.19
26	127	617	9:23	17	1.011	A VV	1877270.	50.000	NG	1.19
27	225	628	9:33	17	1.030	A BB	1361400.	50.000	NG	1.19
28	107	659	10:02	17	1.080	A BV	2454460.	50.000	NG	1.19
29	142	673	10:14	17	1.103	A BV	4219450.	50.000	NG	1.19
30	164	768	11:41	30	1.000	A BB	2473720.	40.000	NG	0.95
31	237	693	10:33	30	0.902	A BB	944096.	50.000	NG	1.19
32	196	700	10:39	30	0.911	A*BV	2401180. 1200590	100.000	NG	2.39
33	196	700	10:39	30	0.911	A*BV	2401180. 1200590	100.000	NG	2.39
34	162	716	10:54	30	0.932	A BB	3930230.	50.000	NG	1.19
35	65	727	11:04	30	0.947	A VV	1820670.	50.000	NG	1.19
36	163	746	11:21	30	0.971	A BV	4583990.	50.000	NG	1.19
37	152	754	11:28	30	0.982	A BV	5489690.	50.000	NG	1.19
38	138	727	11:04	30	0.947	A BV	1260190.	50.000	NG	1.19
39	153	771	11:44	30	1.004	A BB	3873530.	50.000	NG	1.19
40	184	773	11:46	30	1.007	A BV	215648.	50.000	NG	1.19
41	139	785	11:57	30	1.022	A VV	2766620.	50.000	NG	1.19
42	168	785	11:57	30	1.022	A BB	5149690.	50.000	NG	1.19
43	89	787	11:59	30	1.025	A*BB	1433050.	50.000	NG	1.19
44	165	752	11:27	30	0.979	A BB	907232.	50.000	NG	1.19
45	149	809	12:19	30	1.053	A VV	5044700.	50.000	NG	1.19
46	204	815	12:24	30	1.061	A BB	1848440.	50.000	NG	1.19
47	166	816	12:25	30	1.062	A BB	4060470.	50.000	NG	1.19
48	138	820	12:29	30	1.068	A*BV	511808.	50.000	NG	1.19
	188	900	13:42	49	1.000	A BV	4007800.	40.000	NG	0.95
	198	823	12:31	49	0.914	A BV	418912.	50.000	NG	1.19
51	169	826	12:34	49	0.918	A BV	2385660.	50.000	NG	1.19
52	248	858	13:03	49	0.953	A BB	1061980.	50.000	NG	1.19
53	284	872	13:16	49	0.969	A BB	1486140.	50.000	NG	1.19
54	266	887	13:30	49	0.986	A BB	331584.	50.000	NG	1.19
55	178	902	13:44	49	1.002	A BV	5355160.	50.000	NG	1.19
56	178	906	13:47	49	1.007	A VV	5002360.	50.000	NG	1.19
57	149	952	14:29	49	1.058	A VV	7428440.	50.000	NG	1.19
58	202	1008	15:20	49	1.120	A BV	5220830.	50.000	NG	1.19
59	240	1139	17:20	59	1.000	A BV	2657500.	40.000	NG	0.95
60	184	1018	15:29	59	0.894	A BB	20160.	50.000	NG	1.19
61	202	1029	15:40	59	0.903	A VV	5377240.	50.000	NG	1.19
62	149	1085	16:31	59	0.953	A BV	2756880.	50.000	NG	1.19
63	252	1133	17:14	59	0.995	A BV	605600.	50.000	NG	1.19
64	228	1138	17:19	59	0.999	A VV	3928880.	50.000	NG	1.19
65	149	1139	17:20	59	1.000	A VV	4539560.	50.001	NG	1.19
66	228	1142	17:23	59	1.003	A VV	3602510.	50.000	NG	1.19
67	264	1342	20:25	67	1.000	A BV	2356030.	40.000	NG	0.95
68	149	1211	18:26	67	0.902	A BV	6457090.	50.000	NG	1.19
69	252	1281	19:30	67	0.955	A*BV	6630700. 3315350	100.000	NG	2.39
70	252	1281	19:30	67	0.955	A*BV	6630700. 3315350	100.000	NG	2.39
71	252	1333	20:17	67	0.993	A VV	3029850.	50.000	NG	1.19
72	276	1585	24:07	67	1.181	A BV	3503660.	50.000	NG	1.19
73	278	1590	24:12	67	1.185	A BV	2882170.	50.000	NG	1.19
74	276	1659	25:15	67	1.236	A BV	2829570.	50.000	NG	1.19
	112	391	5:57	1	0.785	A BV	2700790.	50.000	NG	1.19

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	470	7:09	1	0.944	A BV	3404120.	50.000	NG	1.19
77	82	548	8:20	17	0.898	A VB	3434270.	50.000	NG	1.19
78	172	707	10:46	30	0.921	A VB	4453550.	50.000	NG	1.19
79	141	839	12:46	30	1.092	A BV	342496.	50.000	NG	1.19
80	244	1040	15:50	59	0.913	A BV	3647960.	50.000	NG	1.19
81	212	1027	15:38	59	0.902	A BV	4651710.	50.000	NG	1.19

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:54	1.00	10.000	0.05	50.00	50.00	1.764	1.764	1.00
3	7:10	1.00	10.000	0.09	50.00	50.00	1.901	1.901	1.00
4	7:12	1.00	10.000	0.09	50.00	50.00	1.705	1.705	1.00
5	7:16	1.00	10.000	0.10	50.00	50.00	1.598	1.598	1.00
6	7:20	1.00	10.000	0.10	50.00	50.00	1.329	1.329	1.00
7	7:32	1.00	10.000	0.10	50.00	50.00	1.574	1.574	1.00
8	7:36	1.00	10.000	0.10	50.00	50.00	1.623	1.623	1.00
9	7:47	1.00	10.000	0.10	50.00	50.00	0.768	0.768	1.00
10	7:50	1.00	10.000	0.10	50.00	50.00	1.461	1.461	1.00
11	7:57	1.00	10.000	0.10	50.00	50.00	1.099	1.099	1.00
12	7:59	1.00	10.000	0.11	50.00	50.00	2.878	2.878	1.00
13	8:08	1.00	10.000	0.11	50.00	50.00	1.225	1.225	1.00
14	8:10	1.00	10.000	0.11	50.00	50.00	1.340	1.340	1.00
15	8:16	1.00	10.000	0.11	50.00	50.00	0.735	0.735	1.00
16	8:22	1.00	10.000	0.11	50.00	50.00	1.810	1.810	1.00
17	9:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:40	1.00	10.000	0.09	50.00	50.00	0.981	0.981	1.00
19	8:48	1.00	10.000	0.09	50.00	50.00	0.194	0.194	1.00
20	8:50	1.00	10.000	0.10	50.00	50.00	0.358	0.358	1.00
21	8:58	1.00	50.000	0.02	50.00	50.00	0.165	0.165	1.00
	8:58	1.00	10.000	0.10	50.00	50.00	0.485	0.485	1.00
23	9:06	1.00	10.000	0.10	50.00	50.00	0.327	0.327	1.00
24	9:13	1.00	10.000	0.10	50.00	50.00	0.386	0.386	1.00
25	9:19	1.00	10.000	0.10	50.00	50.00	1.114	1.114	1.00
26	9:23	1.00	10.000	0.10	50.00	50.00	0.306	0.306	1.00
27	9:33	1.00	10.000	0.10	50.00	50.00	0.222	0.222	1.00
28	10:02	1.00	10.000	0.11	50.00	50.00	0.400	0.400	1.00
29	10:14	1.00	10.000	0.11	50.00	50.00	0.688	0.688	1.00
30	11:41	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:33	1.00	10.000	0.09	50.00	50.00	0.305	0.305	1.00
32	10:39	1.00	10.000	0.09	100.00	100.00	0.388	0.388	1.00
33	10:39	1.00	50.000	0.02	100.00	100.00	0.388	0.388	1.00
34	10:54	1.00	10.000	0.09	50.00	50.00	1.271	1.271	1.00
35	11:04	1.00	50.000	0.02	50.00	50.00	0.589	0.589	1.00
36	11:21	1.00	10.000	0.10	50.00	50.00	1.482	1.482	1.00
37	11:28	1.00	10.000	0.10	50.00	50.00	1.775	1.775	1.00
38	11:04	1.00	50.000	0.02	50.00	50.00	0.408	0.408	1.00
39	11:44	1.00	10.000	0.10	50.00	50.00	1.253	1.253	1.00
40	11:46	1.00	50.000	0.02	50.00	50.00	0.070	0.070	1.00
41	11:57	1.00	50.000	0.02	50.00	50.00	0.895	0.895	1.00
42	11:57	1.00	10.000	0.10	50.00	50.00	1.665	1.665	1.00
43	11:59	1.00	10.000	0.10	50.00	50.00	0.463	0.463	1.00
44	11:27	1.00	10.000	0.10	50.00	50.00	0.293	0.293	1.00
45	12:19	1.00	10.000	0.11	50.00	50.00	1.631	1.631	1.00
46	12:24	1.00	10.000	0.11	50.00	50.00	0.598	0.598	1.00
47	12:25	1.00	10.000	0.11	50.00	50.00	1.313	1.313	1.00
	12:29	1.00	50.000	0.02	50.00	50.00	0.166	0.166	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:42	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:31	1.00	50.000	0.02	50.00	50.00	0.084	0.084	1.00
51	12:34	1.00	10.000	0.09	50.00	50.00	0.476	0.476	1.00
52	13:03	1.00	10.000	0.10	50.00	50.00	0.212	0.212	1.00
53	13:16	1.00	10.000	0.10	50.00	50.00	0.297	0.297	1.00
54	13:30	1.00	50.000	0.02	50.00	50.00	0.066	0.066	1.00
55	13:44	1.00	10.000	0.10	50.00	50.00	1.069	1.069	1.00
56	13:47	1.00	10.000	0.10	50.00	50.00	0.999	0.999	1.00
57	14:29	1.00	10.000	0.11	50.00	50.00	1.483	1.483	1.00
58	15:20	1.00	10.000	0.11	50.00	50.00	1.042	1.042	1.00
59	17:20	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:29	1.00	50.000	0.02	50.00	50.00	0.006	0.006	1.00
61	15:40	1.00	10.000	0.09	50.00	50.00	1.619	1.619	1.00
62	16:31	1.00	10.000	0.10	50.00	50.00	0.830	0.830	1.00
63	17:14	1.00	20.000	0.05	50.00	50.00	0.182	0.182	1.00
64	17:19	1.00	10.000	0.10	50.00	50.00	1.183	1.183	1.00
65	17:20	1.00	10.000	0.10	50.00	50.00	1.367	1.367	1.00
66	17:23	1.00	10.000	0.10	50.00	50.00	1.084	1.084	1.00
67	20:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:26	1.00	10.000	0.09	50.00	50.00	2.193	2.193	1.00
69	19:30	1.00	10.000	0.10	100.00	100.00	1.126	1.126	1.00
70	19:30	1.00	10.000	0.10	100.00	100.00	1.126	1.126	1.00
71	20:17	1.00	10.000	0.10	50.00	50.00	1.029	1.029	1.00
72	24:07	1.00	10.000	0.12	50.00	50.00	1.190	1.190	1.00
73	24:12	1.00	10.000	0.12	50.00	50.00	0.979	0.979	1.00
74	23:15	1.00	10.000	0.12	50.00	50.00	0.961	0.961	1.00
75	5:57	1.00	0.742	1.06	50.00	50.00	1.382	1.382	1.00
76	7:09	1.00	0.948	1.00	50.00	50.00	1.742	1.742	1.00
77	8:20	1.00	0.875	1.03	50.00	50.00	0.560	0.560	1.00
78	10:46	1.00	0.906	1.02	50.00	50.00	1.442	1.442	1.00
79	12:46	1.00	1.118	0.98	50.00	50.00	0.111	0.111	1.00
80	15:50	1.00	0.907	1.01	50.00	50.00	1.098	1.098	1.00
81	15:38	1.00	0.906	0.99	50.00	50.00	1.400	1.400	1.00

QUANTITATION REPORT FILE: SURRCHKA07

DATA: SURRCHKA07.TI
05/25/85 7:59:00
SAMPLE: 1UL CC#14624 (#392) DN#07
C)S.:
S. .ITTED BY: 07 ANALYST: 644

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*** D4-1,4-DICHLOROBENZENE (IS#1)
2	*** D8-NAPHTHALENE (IS#2)
3	*** D10-ACENAPHTHENE (IS#3)
4	*** 2-FLUOROPHENOL (SS#1)
5	*** D5-PHENOL (SS#2)
6	*** 2,4,6-TRIBROMOPHENOL (SS#5)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	498	7:35	1	1.000	A BB	1508250.	40.000	NG	16.36
2	136	609	9:16	2	1.000	A BV	4847350.	40.000	NG	16.36
3	164	767	11:40	3	1.000	A BB	2641400.	40.000	NG	16.36
4	112	391	5:57	1	0.785	A BV	2310870.	44.353	NG	18.14
5	99	470	7:09	1	0.944	A BV	2832380.	43.130	NG	17.64
6	141	838	12:45	3	1.093	A BV	270432.	36.973	NG	15.12

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	9:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
3	11:41	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
	5:57	1.00	0.742	1.06	44.35	50.00	1.226	1.382	0.89
	7:09	1.00	0.948	1.00	43.13	50.00	1.502	1.742	0.86
6	12:46	1.00	1.118	0.98	36.97	50.00	0.082	0.111	0.74

Copy

Mead CompuChem
GC/MS Analysis Log

Initial Time of Tune 6:18 — Shift(s) (A) (B) (C)
Time Tune Expires 18:18 — Date 5/25/85
Analysis Type SEMI

Run Log — Press Hard, Multiple Copies

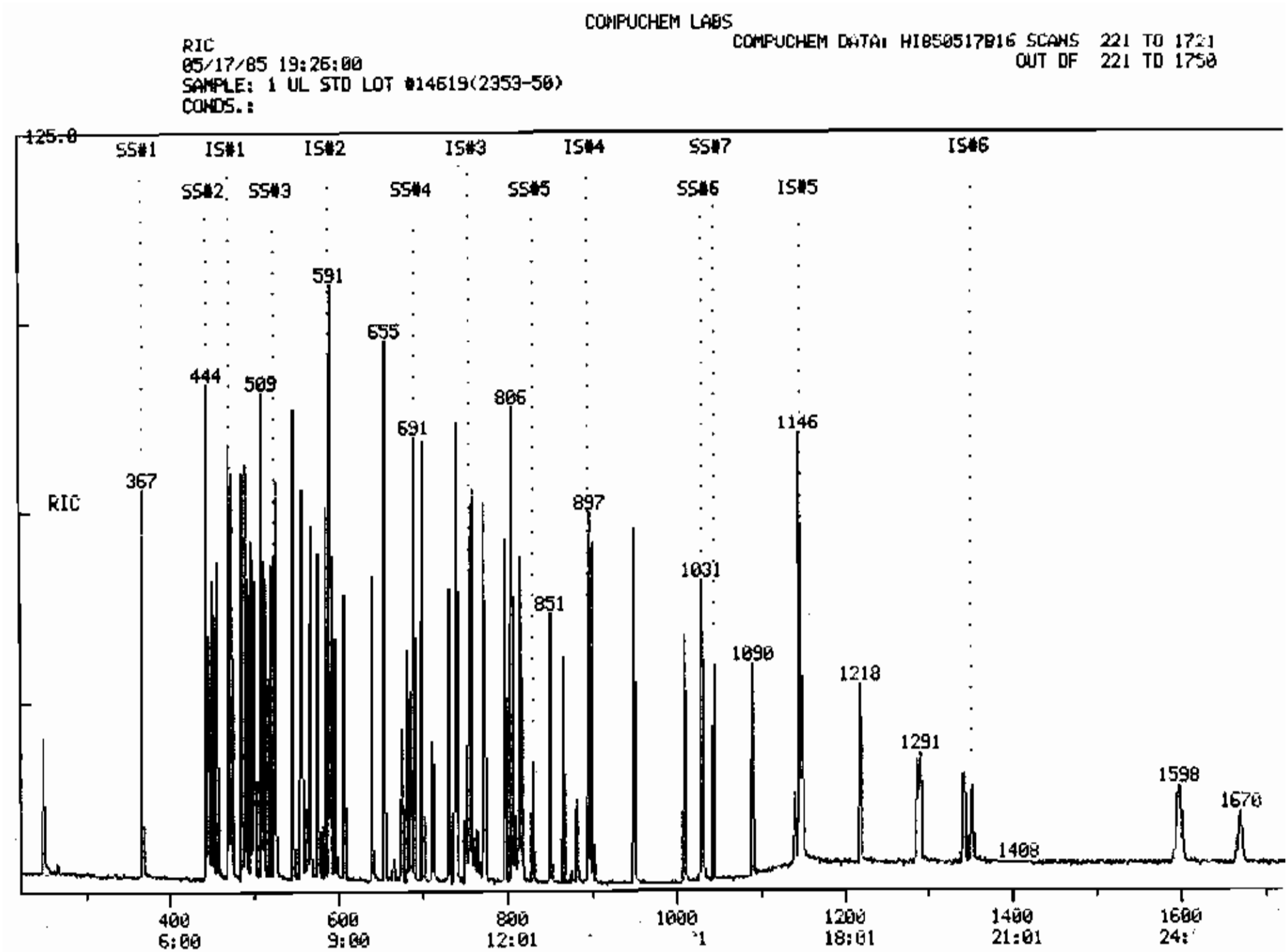
	REJ	File Name	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1		DH850525C07	5/25/85	6:18	DFTPP		1ul	755		78	(4658(7050)
2		HG850525C07	"	6:52	Std		"	"		"	14661(2353)
3		SURRCHK A07	"	7:59	std. check		1.0ml	644		"	#392
4		GH051625A07	"	8:42	Blank		1.0ml	644		"	51625
5		GR049805A07	"	9:28	55		1.0ml	644		"	49805R
6		GR049811A07	"	10:13	BW850705F		1.0ml	644		"	49811R
7		GR049812A07	"	11:17			1.0ml	644		"	49812R
8		GR050168A07	"	:			1.0	644		75	50168R New Disc.
9		changed disc?	"	:							
10		GRJ050168A07	"	13:51			1.0ml	644		67	50168RJ New Disc.
11		GR049806A07	"	:			1.0ml	644		67	
12		GR050173A07	5/25/85	15:40	BB246	4236	1ul	683		67	
13		GR050180A07	5/25/85	16:38	BB249	4236	1ul	683		67	
14		GHd 50639A07	"	17:23	BL#1	4351-1	"	675		"	
15		GHd 50451A07	"	17:59	BD005	"	"	"		"	Reinject; still unknown
16			/ /	:							
17			/ /	:							
18			/ /	:							
19			/ /	:							
20			/ /	:							
21			/ /	:							
22			/ /	:							
23			/ /	:							
24			/ /	:							
25			/ /	:							
26			/ /	:							

RM 5/25/85

A

QC Copy

5/28/85


COMPUCHEM LABS
RIC
05/17/85 19:26:00
SAMPLE: 1 UL STD LOT #14619(2353-50)
CONDS.:
COMPUCHEM DATA: HI850517B16 SCANS 221 TO 1721
OUT OF 221 TO 1750
125.0
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
591
655
444
509
806
691
1146
367
RIC
897
1031
851
1090
1218
1291
1598
1670
1408
400
6:00
600
9:00
800
12:01
1000
1200
18:01
1400
21:01
1600
24:

COMPUCHEM LABS

RIC
05/17/85 19:26:00
SAMPLE: 1 UL STD LOT #14619(2353-50)
CONDS.:

COMPUCHEM DATA: HI850517B16 SCANS 1721 TO 1750
OUT OF 221 TO 1750

5580790.

SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/17/85 19:54:59
DATA FILE: H1850517B16
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
4	4	1	0	53	40	96	84	SEMI1S1/SEMI1U1
4	4	2	67	29	27	64	42	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 66 FOUND

COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SAT SEL	SAT DELTA	SAT PEAKS	CHRO FIT	CHRO PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	G1	1	-473	473	473	.	1	944	.	152	473	.	1
2	G2	1	-589	589	589	.	1	989	.	136	589	.	1
3	G3	1	-756	756	756	.	1	974	.	164	755	-1	1
4	G7	2	-367	367	367	.	1	908	.	112	367	.	1
5	G1	2	-250	250	.	.	.	.	.	42	249	.	1
6	G1	3	-445	445	.	.	.	.	.	94	444	.	2
7	G1	4	-448	448	.	.	.	.	.	93	448	.	1
8	G1	5	-453	453	452	-1	1	988	.	93	452	.	1
9	G1	6	-457	457	.	.	.	.	.	128	457	.	1
10	G1	7	-470	470	470	.	2	936	.	146	470	.	1
11	G1	8	-475	475	475	.	2	937	.	146	475	.	1
12	G1	9	-486	486	486	.	1	933	.	108	486	.	1
13	G1	10	-491	491	491	.	1	937	.	146	491	.	1
14	G1	11	-497	497	497	.	3	991	.	108	497	.	1
15	G1	12	-501	501	500	-1	1	912	.	45	500	.	1
16	G1	13	-509	509	509	.	1	905	.	105	509	.	1
17	G1	14	-513	513	.	.	.	.	.	70	512	.	2
18	G1	15	-519	519	519	.	1	947	.	117	519	.	1
19	G1	16	-526	526	526	.	1	913	.	77	526	.	1
20	G2	2	-547	547	.	.	.	.	.	82	547	.	1
21	G2	3	-555	555	.	.	.	.	.	139	555	.	1
22	G2	4	-557	557	557	.	1	914	.	122	557	.	1
23	G2	5	-566	566	564	-2	1	943	.	122	564	.	1
24	G2	6	-567	567	567	.	1	992	.	93	567	.	1
25	G2	7	-576	576	576	.	1	932	.	162	576	.	1
26	G2	8	-585	585	585	.	1	959	.	180	585	.	1
27	G2	9	-591	591	591	.	1	973	.	128	591	.	1
28	G2	10	-597	597	.	.	.	.	.	127	596	.	1
29	G2	11	-607	607	607	.	1	944	.	225	607	.	1
30	G2	12	-640	640	640	.	1	912	.	107	640	.	1
31	G2	13	-655	655	655	.	2	966	.	142	655	.	1
32	G3	2	-677	677	676	-1	1	930	.	237	676	.	1
33	G3	3	-687	687	687	.	2	947	.	196	686	-1	1
34	G3	4	-687	687	687	.	2	957	.	196	686	-1	1
35	G3	5	-701	701	701	.	1	991	.	162	701	.	1
36	G3	6	-713	713	.	.	.	.	.	65	712	.	1
37	G3	7	-732	732	732	.	1	984	.	163	732	.	1
38	G3	8	-741	741	741	.	1	992	.	152	741	.	1
39	G3	9	-752	752	.	.	.	.	.	138	751	.	1
40	G3	10	-759	759	759	.	1	963	.	153	758	-1	1
41	G3	11	-761	761	765	4	1	791	.	184	765	.	1
42	G3	12	-765	765	.	.	.	.	.	139	764	.	1
43	G3	13	-774	774	773	-1	1	984	.	168	773	.	1
44	G3	14	-776	776	775	-1	1	914	.	89	775	.	1
45	G3	15	-739	739	739	.	1	932	.	165	738	-1	1
46	G3	16	-799	799	.	.	.	.	.	149	798	.	1
47	G3	17	-805	805	805	.	1	912	.	204	805	.	1
48	G3	18	-807	807	806	-1	1	983	.	166	806	.	1

50	G7	3	-444	444	444	.	1	876	.	99	443	-1
51	G7	4	-525	525	524	-1	1	953	.	82	524	.
52	G7	5	-691	691	691	.	1	966	.	172	691	.
53	G7	6	-831	831	830	-1	1	920	.	141	830	.
54	G4	1	-895	894	895	1	1	956	.	188	894	-1
55	G5	1	-1148	1148	1147	-1	1	919	.	240	1147	.
56	G6	1	-1352	1352	1352	.	2	998	.	264	1352	.
57	G4	2	-814	814	.	.	.	.	.	198	813	.
58	G4	3	-817	817	816	-1	1	910	.	169	816	.
59	G4	4	-851	851	851	.	1	935	.	248	851	.
60	G4	5	-866	866	866	.	1	940	.	284	866	.
61	G4	6	-882	882	882	.	1	938	.	266	881	-1
62	G4	7	-897	897	897	.	2	990	.	178	897	.
63	G4	8	-901	901	901	.	2	987	.	178	901	.
64	G4	9	-950	950	950	.	1	953	.	149	950	.
65	G4	10	-1010	1010	1010	.	1	974	.	202	1010	.
66	G5	2	-1021	1021	.	.	.	.	.	184	1021	.
67	G5	3	-1032	1032	1031	-1	1	982	.	202	1031	.
68	G5	4	-1091	1091	1090	-1	1	950	.	149	1090	.
69	G5	5	-1141	1141	1141	.	1	977	.	252	1140	-1
70	G5	6	-1146	1146	1145	-1	2	945	.	228	1145	.
71	G5	7	-1146	1146	1146	.	1	962	.	149	1146	.
72	G5	8	-1150	1150	1150	.	2	953	.	228	1150	.
73	G6	2	-1218	1218	1218	.	1	958	.	149	1218	.
74	G6	3	-1287	1287	1287	.	2	955	.	252	1290	3
75	G6	4	-1287	1287	1287	.	2	949	.	252	1290	3
76	G6	5	-1343	1343	1343	.	1	951	.	252	1342	-1
77	G6	6	-1596	1596	1596	.	1	942	.	276	1596	.
78	G6	7	-1599	1599	1599	.	1	927	.	278	1599	.
79	G6	8	-1670	1670	1670	.	1	965	.	276	1670	.
80	G7	7	-1044	1044	1044	.	1	971	.	244	1044	.
81	G8	2	-1030	1030	1030	.	1	971	.	212	1030	.

DATA: HI850517B16.TI
05/17/85 19:26:00
SAMPLE: 1 UL STD LOT #14619(2353-50)
 ONOS.:
SUBMITTED BY: 16 ANALYST: 803

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLORLBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	610 PHENOL (G1#3) <108-95-2>
4	473 ANILINE (G1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
6	601 2-CHLOROPHENOL (G1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
9	474 BENZYL ALCOHOL (G1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
11	620 2-METHYLPHENOL (G1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
13	622 4-METHYLPHENOL (G1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
15	436 HEXACHLOROETHANE (G1#15) <67-72-1>
16	440 NITROBENZENE (G1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (G2#2) <78-59-1>
19	606 2-NITROPHENOL (G2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
21	625 BENZOIC ACID (G2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
25	439 NAPHTHALENE (G2#9) <91-20-3>
26	475 4-CHLOROANILINE (G2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
35	478 2-NITROANILINE (G3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
37	402 ACENAPHTHYLENE (G3#8) <208-96-8>
38	479 3-NITROANILINE (G3#9) <99-09-2>
39	401 ACENAPHTHENE (G3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (G3#11) <51-28-5>
41	607 4-NITROPHENOL (G3#12) <100-02-7>
42	476 DIBENZOFURAN (G3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENEZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	152	473	7:06	1	1.000	A BV	495328.	40.000 NG	0.95
2	42	249	3:44	1	0.526	A VV	838352.	50.000 NG	1.19
3	94	444	6:40	1	0.939	A*BV	1515000.	50.000 NG	1.19
4	93	448	6:43	1	0.947	A VV	1278390.	50.000 NG	1.19
5	93	452	6:47	1	0.956	A VV	1352150.	50.000 NG	1.19
6	128	457	6:52	1	0.966	A BV	955232.	50.000 NG	1.19
7	146	470	7:03	1	0.994	A BV	948288.	50.000 NG	1.19
8	146	475	7:08	1	1.004	A VB	1082110.	50.000 NG	1.19
9	108	486	7:18	1	1.027	A BV	649824.	50.000 NG	1.19
10	146	491	7:22	1	1.038	A BV	988544.	50.000 NG	1.19
11	108	497	7:28	1	1.051	A VV	928256.	50.000 NG	1.19
12	45	500	7:30	1	1.057	A BV	2339640.	50.000 NG	1.19
13	108	509	7:38	1	1.076	A VV	1078970.	50.000 NG	1.19
14	70	512	7:41	1	1.082	A*VV	951648.	50.000 NG	1.19
15	117	519	7:47	1	1.097	A BB	514080.	50.000 NG	1.19
16	77	526	7:54	1	1.112	A VV	1256760.	50.000 NG	1.19
17	136	589	8:50	17	1.000	A VV	1898650.	40.000 NG	0.95
18	82	547	8:13	17	0.929	A BV	2409340.	50.000 NG	1.19
19	139	555	8:20	17	0.942	A BV	450208.	50.000 NG	1.19

NO	H/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	557	8:22	17	0.946	A BV	799232.	50.000	NG	1.19
21	122	564	8:28	17	0.958	A VV	244288.	50.000	NG	1.19
22	93	567	8:31	17	0.963	A VV	1258940.	50.000	NG	1.19
23	162	576	8:39	17	0.978	A BV	547744.	50.000	NG	1.19
24	180	585	8:47	17	0.993	A BB	600960.	50.000	NG	1.19
25	128	591	8:52	17	1.003	A BV	2746870.	50.000	NG	1.19
26	127	596	8:57	17	1.012	A VV	978080.	50.000	NG	1.19
27	225	607	9:07	17	1.031	A BB	299552.	50.000	NG	1.19
28	107	640	9:36	17	1.087	A BV	802240.	50.000	NG	1.19
29	142	655	9:50	17	1.112	A VV	1439670.	50.000	NG	1.19
30	164	755	11:20	30	1.000	A BB	728608.	40.000	NG	0.95
31	237	676	10:09	30	0.895	A BB	267136.	50.000	NG	1.19
32	196	683	10:15	30	0.905	A BB	5008642964321	100.000	NG	2.39
33	196	683	10:15	30	0.905	A BB	5008642964321	100.000	NG	2.39
34	162	701	10:31	30	0.928	A BV	1185560.	50.000	NG	1.19
35	65	712	10:41	30	0.943	A BV	437856.	50.000	NG	1.19
36	163	732	10:59	30	0.970	A BB	1223030.	50.000	NG	1.19
37	152	741	11:07	30	0.981	A BV	1965980.	50.000	NG	1.19
38	138	751	11:16	30	0.995	A BV	292160.	50.000	NG	1.19
39	153	758	11:23	30	1.004	A BV	1273270.	50.000	NG	1.19
40	184	761	11:25	30	1.008	A BB	48768.	50.000	NG	1.19
41	139	764	11:28	30	1.012	A BV	177408.	50.000	NG	1.19
42	168	773	11:36	30	1.024	A BV	1486430.	50.000	NG	1.19
43	89	775	11:38	30	1.026	A BB	386464.	50.000	NG	1.19
44	165	738	11:05	30	0.977	A BB	235520.	50.000	NG	1.19
45	149	798	11:59	30	1.057	A BV	1491130.	50.000	NG	1.19
46	204	805	12:05	30	1.066	A BB	430080.	50.000	NG	1.19
47	166	806	12:06	30	1.068	A BV	1068120.	50.000	NG	1.19
48	138	809	12:09	30	1.072	A VV	216832.	50.000	NG	1.19
49	188	894	13:25	49	1.000	A BV	977696.	40.000	NG	0.95
50	198	813	12:12	49	0.909	A BV	91168.	50.000	NG	1.19
51	169	816	12:15	49	0.913	A BV	751616.	50.000	NG	1.19
52	248	851	12:46	49	0.952	A*BB	240896.	50.000	NG	1.19
53	284	866	13:00	49	0.969	A BB	313152.	50.000	NG	1.19
54	266	881	13:13	49	0.985	A BB	114976.	50.001	NG	1.19
55	178	897	13:28	49	1.003	A BV	1406490.	50.000	NG	1.19
56	178	901	13:31	49	1.008	A VV	1326230.	50.000	NG	1.19
57	149	950	14:16	49	1.063	A VV	2220730.	50.000	NG	1.19
58	202	1010	15:10	49	1.130	A BV	1088090.	50.000	NG	1.19
59	240	1147	17:13	59	1.000	A BB	482784.	40.000	NG	0.95
60	184	1021	15:20	59	0.890	A BV	24192.	50.000	NG	1.19
61	202	1031	15:29	59	0.899	A VV	1139390.	50.000	NG	1.19
62	149	1090	16:22	59	0.950	A VV	704034.	50.000	NG	1.19
63	232	1140	17:07	59	0.994	A BV	172192.	50.000	NG	1.19
64	228	1145	17:11	59	0.998	A BV	730176.	50.000	NG	1.19
65	149	1146	17:12	59	0.999	A VV	1091970.	50.000	NG	1.19
66	228	1150	17:16	59	1.003	A VV	746912.	50.000	NG	1.19
67	264	1352	20:18	67	1.000	A BV	467168.	40.000	NG	0.95
68	149	1218	18:17	67	0.901	A VV	1807240.	50.000	NG	1.19
69	252	1290	19:22	67	0.954	A*BV	13169206564641	100.000	NG	2.39
70	252	1290	19:22	67	0.954	A*BV	13169206564641	100.000	NG	2.39
71	252	1342	20:09	67	0.993	A VB	572672.	50.000	NG	1.19
72	276	1596	23:57	67	1.180	A BV	718080.	50.000	NG	1.19
73	278	1599	24:00	67	1.183	A VV	574240.	50.000	NG	1.19
74	276	1670	25:04	67	1.235	A BV	606880.	50.000	NG	1.19
75	112	367	5:31	1	0.776	A VV	985456.	50.001	NG	1.19

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	443	6:39	1	0.937	A BV	1342520.	50.001	NG	1.19
77	82	524	7:52	17	0.890	A BV	1240250.	50.001	NG	1.19
78	172	691	10:22	30	0.915	A BV	1265310.	50.001	NG	1.19
79	141	830	12:28	30	1.099	A BB	89536.	50.001	NG	1.19
80	244	1044	15:40	59	0.910	A BV	660480.	50.001	NG	1.19
81	212	1030	15:28	59	0.898	A BV	950528.	50.000	NG	1.19

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:06	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:44	1.00	10.000	0.05	50.00	50.00	1.354	1.354	1.00
3	6:40	1.00	10.000	0.09	50.00	50.00	2.447	2.447	1.00
4	6:43	1.00	10.000	0.09	50.00	50.00	2.065	2.065	1.00
5	6:47	1.00	10.000	0.10	50.00	50.00	2.184	2.184	1.00
6	6:52	1.00	10.000	0.10	50.00	50.00	1.543	1.543	1.00
7	7:03	1.00	10.000	0.10	50.00	50.00	1.532	1.532	1.00
8	7:08	1.00	10.000	0.10	50.00	50.00	1.748	1.748	1.00
9	7:18	1.00	10.000	0.10	50.00	50.00	1.050	1.050	1.00
10	7:22	1.00	10.000	0.10	50.00	50.00	1.597	1.597	1.00
11	7:28	1.00	10.000	0.11	50.00	50.00	1.499	1.499	1.00
12	7:30	1.00	10.000	0.11	50.00	50.00	3.779	3.779	1.00
13	7:38	1.00	10.000	0.11	50.00	50.00	1.743	1.743	1.00
14	7:41	1.00	10.000	0.11	50.00	50.00	1.537	1.537	1.00
15	7:47	1.00	10.000	0.11	50.00	50.00	0.830	0.830	1.00
16	7:54	1.00	10.000	0.11	50.00	50.00	2.030	2.030	1.00
17	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:13	1.00	10.000	0.09	50.00	50.00	1.015	1.015	1.00
19	8:20	1.00	10.000	0.09	50.00	50.00	0.190	0.190	1.00
20	8:22	1.00	10.000	0.09	50.00	50.00	0.337	0.337	1.00
21	8:28	1.00	50.000	0.02	50.00	50.00	0.103	0.103	1.00
22	8:31	1.00	10.000	0.10	50.00	50.00	0.530	0.530	1.00
23	8:39	1.00	10.000	0.10	50.00	50.00	0.231	0.231	1.00
24	8:47	1.00	10.000	0.10	50.00	50.00	0.253	0.253	1.00
25	8:52	1.00	10.000	0.10	50.00	50.00	1.157	1.157	1.00
26	8:57	1.00	10.000	0.10	50.00	50.00	0.412	0.412	1.00
27	9:07	1.00	10.000	0.10	50.00	50.00	0.126	0.126	1.00
28	9:36	1.00	10.000	0.11	50.00	50.00	0.338	0.338	1.00
29	9:50	1.00	10.000	0.11	50.00	50.00	0.607	0.607	1.00
30	11:20	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:09	1.00	10.000	0.09	50.00	50.00	0.293	0.293	1.00
32	10:15	1.00	10.000	0.09	100.00	100.00	0.319	0.319	1.00
33	10:15	1.00	100.000	0.01	100.00	100.00	0.319	0.319	1.00
34	10:31	1.00	10.000	0.09	50.00	50.00	1.302	1.302	1.00
35	10:41	1.00	50.000	0.02	50.00	50.00	0.481	0.481	1.00
36	10:59	1.00	10.000	0.10	50.00	50.00	1.343	1.343	1.00
37	11:07	1.00	10.000	0.10	50.00	50.00	2.159	2.159	1.00
38	11:16	1.00	50.000	0.02	50.00	50.00	0.321	0.321	1.00
39	11:23	1.00	10.000	0.10	50.00	50.00	1.398	1.398	1.00
40	11:25	1.00	50.000	0.02	50.00	50.00	0.054	0.054	1.00
41	11:28	1.00	50.000	0.02	50.00	50.00	0.195	0.195	1.00
42	11:36	1.00	10.000	0.10	50.00	50.00	1.632	1.632	1.00
43	11:38	1.00	10.000	0.10	50.00	50.00	0.424	0.424	1.00
44	11:05	1.00	10.000	0.10	50.00	50.00	0.259	0.259	1.00
45	11:59	1.00	10.000	0.11	50.00	50.00	1.637	1.637	1.00
46	12:05	1.00	10.000	0.11	50.00	50.00	0.472	0.472	1.00
47	12:06	1.00	10.000	0.11	50.00	50.00	1.173	1.173	1.00
48	12:09	1.00	50.000	0.02	50.00	50.00	0.238	0.238	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
49	13:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:12	1.00	50.000	0.02	50.00	50.00	0.075	0.075	1.00
51	12:15	1.00	10.000	0.09	50.00	50.00	0.615	0.615	1.00
52	12:46	1.00	10.000	0.10	50.00	50.00	0.197	0.197	1.00
53	13:00	1.00	10.000	0.10	50.00	50.00	0.256	0.256	1.00
54	13:13	1.00	50.000	0.02	50.00	50.00	0.094	0.094	1.00
55	13:28	1.00	10.000	0.10	50.00	50.00	1.151	1.151	1.00
56	13:31	1.00	10.000	0.10	50.00	50.00	1.085	1.085	1.00
57	14:16	1.00	10.000	0.11	50.00	50.00	1.817	1.817	1.00
58	15:10	1.00	10.000	0.11	50.00	50.00	0.890	0.890	1.00
59	17:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:20	1.00	50.000	0.02	50.00	50.00	0.040	0.040	1.00
61	15:29	1.00	10.000	0.09	50.00	50.00	1.888	1.888	1.00
62	16:22	1.00	10.000	0.10	50.00	50.00	1.167	1.167	1.00
63	17:07	1.00	20.000	0.05	50.00	50.00	0.285	0.285	1.00
64	17:11	1.00	10.000	0.10	50.00	50.00	1.210	1.210	1.00
65	17:12	1.00	10.000	0.10	50.00	50.00	1.809	1.809	1.00
66	17:16	1.00	10.000	0.10	50.00	50.00	1.238	1.238	1.00
67	20:18	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:17	1.00	10.000	0.09	50.00	50.00	3.095	3.095	1.00
69	19:22	1.00	10.000	0.10	100.00	100.00	1.128	1.128	1.00
70	19:22	1.00	10.000	0.10	100.00	100.00	1.128	1.128	1.00
71	20:09	1.00	10.000	0.10	50.00	50.00	0.981	0.981	1.00
72	23:57	1.00	10.000	0.12	50.00	50.00	1.230	1.230	1.00
73	24:00	1.00	10.000	0.12	50.00	50.00	0.983	0.983	1.00
74	25:04	1.00	10.000	0.12	50.00	50.00	1.039	1.039	1.00
75	5:31	1.00	0.742	1.05	50.00	50.00	1.592	1.592	1.00
76	6:39	1.00	0.948	0.99	50.00	50.00	2.168	2.168	1.00
77	7:52	1.00	0.875	1.02	50.00	50.00	0.523	0.523	1.00
78	10:22	1.00	0.906	1.01	50.00	50.00	1.389	1.389	1.00
79	12:28	1.00	1.118	0.98	50.00	50.00	0.098	0.098	1.00
80	15:40	1.00	0.907	1.00	50.00	50.00	1.094	1.094	1.00
81	15:28	1.00	0.906	0.99	50.00	50.00	1.575	1.575	1.00

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 1911
Time Tune Expires 0711
Shift(s) (A) ___ (B) ✓ (C) ___
Date 5/17/85
Analysis Type SEMI

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1	✓	DH850517B16		5/17/85	:	DFTPP		1µ	803		2917	7050 retune
2		DF850517B16		5/17/85	19:11	DFTPP		1µ	803		2917	2050
3		HI850517B16		5/17/85	19:26	std		1µ	803		2917	2353-5
4		SC850517B16		5/17/85	20:37	✓		1µ	803		2917	342
5		GJ049484.B16		5/17/85	21:03	BB390	4229	1µ	803		2917	
6		GH049999.B16		5/17/85	21:45	BB1	Catat	1µ	803		2917	
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JP 5/17/85

ENTERED 5/20/85

Press Hard, ...iple Copies

VOLATILE COMPOUNDS DETECTION LIMIT STUDY - AMENDED JANUARY 15, 1985

NAME	MEAN	STD. DEV.	3 x STD. DEV (Converted to ug/L) Inst. DET. Limit
Bromochloromethane (IS)	-----	--------	ug/L
Chloromethane	105874	19930	28
Bromomethane	149468	16890	17
Vinyl Chloride	124730	14679	18
Chloroethane	64814	5398	12
Methylene Chloride	121772	14054	17
Acetone (2-Propanone)	22417	1979	13
Carbon Disulfide	355229	51739	22
1,1-Dichloroethylene	116890	14657	19
1,1-Dichloroethane	216032	26269	18
Trans -1,2 -Dichloroethylene	111789	15069	20
Chloroform	261539	29277	17
1,2-Dichloroethane	181477	16957	14
1,4 Difluorobenzene (Internal Std)	------	-----	--
2-Butanone	12072	1374	17
1,1,1-Trichloroethane	195419	23281	18
Carbon Tetrachloride	201317	17824	13
Vinyl Acetate	199598	23864	18
Bromodichloromethane	230138	26399	17
1,2-Dichloropropane	158286	16219	15
Trans-1,3-Dichloropropene	196807	24068	18
Trichloroethylene	173661	15429	13
Chlorodibromomethane	195098	15979	12
1,1,2-Trichloroethane	137818	11975	13
Benzene	381933	26886	10
CIS-1,3-Dichloropropene	164184	14236	13
2-Chloroethyl Vinyl Ether	87902	12117	21
Bromoform	130767	8839	10
D5 Chlorobenzene (Internal Std.)	------	-------	--
2-Hexanone	114919	13303	17
4-Methyl-2-Pentanone	82333	9210	17
Tetrachloroethene	158468	14255	13
1,1.2,2-Tetrachloroethane	186826	15490	12
Toluene	247542	27182	16
Chlorobenzene	338123	25840	11
Ethylbenzene	173342	13736	12
Styrene	366700	34503	14
M-Xylene	230196	21856	14
O- & P-Xylene	451397	42601	28
D4-1,2-Dichloroethane	------	-------	--
Bromofluorobenzene	------	-------	--
D8-Toluene	------	-------	--

PHENANTHRENE	49.10	47.27	48.55	48.31	.94	2.82
ANTHRACENE	48.55	49.12	49.36	49.01	.42	1.25
DI-N-BUTYL PHTHALATE	50.07	65.50	62.49	59.35	8.18	24.54
FLUORANTHENE	45.76	44.84	48.03	46.21	1.64	4.93
BENZIDINE	52.78	63.55	53.49	56.61	6.02	18.07
PYRENE	48.32	54.08	48.62	50.34	3.24	9.73
BUTYLBENZYL PHTHALATE	54.75	72.04	68.35	65.05	9.11	27.32
3,3 DICHLOROBENZIDINE	72.36	46.11	48.61	55.69	14.49	43.46
BENZO(A)ANTHRACENE	50.39	50.78	42.53	47.90	4.65	13.96
BIS-(2-ETHYLHEXYL) PHTHALATE	50.83	68.65	60.28	59.92	8.92	26.75
CHRYSENE	48.76	60.20	50.41	53.12	6.18	18.55
DI-N-OCTYL PHTHALATE	52.96	82.13	52.78	62.62	16.89	50.68
BENZO(B)FLUORANTHENE	48.83	53.17	52.15	51.38	2.27	6.81
BENZO(K)FLUORNTHENE	44.42	53.17	46.66	48.08	4.55	13.64
BENZO(A)PYRENE	50.36	49.26	48.90	49.51	.76	2.28

MINIMUM INSTUMENT DETECTION LEVEL BY THREE STANDARD INJECTIONS

The following data was obtained by making three injections of pesticide PCB standards over the course of 24 hours. The areas of single peak pesticides was calculated by the HP LAS data system. The area for the multi peak pesticides and PCBs was calculated by summing the areas of the peaks.
The instrument detection level was calculated as follows:

Det level = ((3 * SD)/ Mean) * conc of std
EXAMPLE Gamma BHC Det level = ((3 * 18.5)/ 956) * 0.03ug/ml = 0.00098ug/ml
The column tested was a 1.5% SP2250/ 1.95% SP2401 2m x 4mm column run isothermally in a Varian 3700 GC with EC detector.

Two data points are missing because there was a bad injection for the first run of the standard containing Arochlor 1016 and 1260. These Archlors were calculated on the basis of two injections.

COMPOUND	CONC STD	AREA 1	AREA 2	AREA 3	MEAN AREA	SD	INST. DET. LEVEL
STD 4360							
GAMMA BHC	.01	968	966	935	956	18.5	0.00058
HEPTACHLOR	.01	925	957	891	924	33.0	0.00107
ALDRIN	.01	998	1004	969	990	18.7	0.00059
GAMMA CHLOR	.01	885	874	903	887	14.6	0.00049
ENDOSULFAN I	.02	1660	1650	1620	1643	20.8	0.00076
DIELDRIN	.02	1894	1915	1855	1888	30.4	0.00097
ENDOSULFAN II	.04	2362	2241	2332	2312	63.0	0.00327
PP'DDT	.06	2518	2558	2505	2527	27.6	0.00197
METHOXYCHLOR	.05	942	957	940	946	9.29	0.00147
STD 4364							
ALPHA BHC	.01	1135	1132	1079	1115	31.5	0.00085
BETA BHC	.02	741	737	713	730	15.1	0.00124
DELTA BHC	.01	772	857	691	773	83.0	0.00322
HEPT. EPOXIDE	.01	860	857	942	886	48.2	0.00163
ALPHA CHLOR	.02	1652	1643	1584	1826	36.9	0.00136
PP'ODE	.02	1615	1612	1566	1598	27.3	0.00103
ENDRIN	.04	1304	1287	1256	1282	24.3	0.00228
PP'DDD	.04	2310	2277	2232	2273	39.1	0.00206
ENDRIN ALDEHYDE	.04	3419	3371	3173	3321	130	0.00589
ENDO. SULFATE	.04	733	691	516	647	115	0.02669
ENDRIN KEYTONE	.10	6276	6613	5780	6223	419	0.02020
MULTI PEAKS PESTS							
TOXAPHENE	1.0	7093	9856	6715	6888	191	0.0832
TECH. CHLORDANE	.20	3357	3157	3280	3265	101	0.0186
AROCHLORS							
1221	1.0	2383	2320	2323	2342	25.5	0.0455
1232	.70	3313	3218	3261	3264	47.6	0.0306
1016	.30	NA	2495	2472	2483	16.3	0.0059
1242	.40	3358	3297	3295	3317	35.8	0.0129
1248	.40	5266	5044	5097	5136	116	0.0291
1254	.30	6449	6277	6217	6314	120	0.0192
1260	.30	NA	9515	10170	9842	463	0.0423

PESTICIDE GC/MS INSTRUMENT DETECTION LIMIT STUDY

COMPOUND	RUN 1	RUN2	RUN3	AVERAGE	STANDARD DEVIATION	DET LIMIT (NG)
PCB 1248	214592	361856	268928	281792	108319	115
PCB 1221	864544	602048	714496	727029	261315	109
PCB 1242	359840	487744	471424	439669	167105	114
PCB 1260	45760	82464	63968	64064	26061	122
PCB 1232	229120	155520	213504	199381	77894	117
BETA BHC	438752	531616	788032	586133	301361	154
ENDRIN	104128	126464	191232	140608	73674	157
DDD	13111350	1660510	2606070	5792643	5261689	273
ENDOSULFAN SULF	182144	213312	347104	247520	136041	165
GAMMA CHLORDANE	438848	482336	892896	604693	361151	179
PCB 1254	128416	137696	138324	134912	46437	103
TOXAPHENE	1102230	619744	54848	592274	428423	217
GAMMA BHC	507232	455904	513184	492107	172983	105
DELTA BHC	347904	301984	325024	324971	109951	102
HEPTACHLOR EPOX	162432	139776	160224	154144	54373	106
ENDOSULFAN 1	100992	80544	99040	93525	34275	110
ENDOSULFAN II	9984	8738	10848	9856	3718	113
DDE	606368	515200	582208	567925	197864	105
ALDRIN	957152	700064	1049370	902195	379735	126
ENDRIN ALDEHYDE	449280	419648	596160	488363	213181	131
ENDRIN KEYTONE	66624	65856	91104	74528	32553	131
METHOXYCHLOR	960608	955744	1286200	1067517	455771	128

Initial Calibration Data
Volatile RSL Compounds

Case No: General Testing
Factor: CompuChem Laboratories
Contract No.

Instrument ID : GCA 011
Calibration Date : 05/23/05

Minimum Avg RF for SPCC is 0.300

Maximum %RSD for CCC is 30%

Laboratory ID	CA050523B11	C7050523A11	CV050523A11	CZ050523B11	CW050523B11			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	Avg RF	%RSD	CCC * SPCC **
METHYL CHLORIDE	1.235	1.220	1.724	.979	1.094	1.250	22.765	**
METHYL BROMIDE	1.681	1.675	2.436	1.438	1.528	1.752	22.615	
VINYL CHLORIDE	1.285	1.255	1.772	1.033	1.189	1.311	20.786	*
CHLOROETHANE	.671	.642	.918	.593	.594	0.683	19.778	
METHYLENE CHLORIDE	1.657	1.489	2.030	1.297	1.327	1.560	19.200	
ACETONE (2-PROPANONE)	.388	.179	.279	.209	.193	0.249	34.997	
CARBON DISULFIDE	3.095	3.908	5.877	3.709	4.093	4.216	22.609	
1,1-DICHLOROETHYLENE	1.312	1.281	1.838	1.101	1.230	1.353	20.916	*
1,1-DICHLOROETHANE	2.352	2.281	3.310	1.925	2.221	2.418	21.705	**
1,2-TRANS-DICHLOROETHYLENE	1.428	1.369	1.971	1.174	1.296	1.448	21.241	
CHLOROFORM	3.343	3.304	4.869	2.859	3.235	3.562	21.639	*
1,2-DICHLOROETHANE	2.223	2.041	3.008	1.765	1.981	2.204	21.722	
2-BUTANONE	.030	.019	.031	.020	.020	0.024	23.124	
1,1,1-TRICHLOROETHANE	.673	.602	.902	.589	.622	0.678	19.099	
CARBON TETRACHLORIDE	.669	.604	.929	.624	.654	0.696	19.058	
VINYL ACETATE	.430	.352	.640	.432	.446	0.460	23.350	
BROMODICHLOROMETHANE	.791	.742	1.142	.703	.760	0.827	21.600	
1,2-DICHLOROPROPANE	.352	.346	.501	.287	.333	0.364	22.215	*
TRANS-1,3-DICHLOROPROPYLENE	.238	.216	.356	.216	.240	0.253	23.112	
TRICHLOROETHYLENE	.487	.444	.640	.401	.428	0.480	19.786	
CHLORODIBROMOMETHANE	.667	.637	1.029	.646	.686	0.733	22.712	
1,1,2-TRICHLOROETHANE	.393	.361	.539	.322	.344	0.390	21.224	
BENZENE	.982	.959	1.355	.803	.894	0.999	21.148	
CIS-1,3-DICHLOROPROPYLENE	.753	.689	1.092	.670	.740	0.789	21.896	
2-CHLOROETHYLVINYL ETHER	.180	.171	.261	.136	.170	0.187	22.331	
BROMOFORM	.405	.403	.685	.418	.439	0.470	25.722	**
2-HEXANONE	.278	.200	.346	.229	.238	0.258	21.892	
4-METHYL-2-PENTANONE	.201	.126	.219	.147	.152	0.169	23.052	
TETRACHLOROETHYLENE	.552	.499	.704	.444	.476	0.535	19.143	
1,1,2,2-TETRACHLOROETHANE	.575	.503	.769	.458	.495	0.560	22.184	**
TOLUENE	.825	.760	1.088	.662	.733	0.814	20.151	*
CHLOROBENZENE	1.158	1.021	1.485	.912	1.008	1.117	20.043	**
ETHYLBENZENE	.585	.473	.676	.420	.467	0.518	19.418	*
STYRENE	1.205	.914	1.481	1.016	1.080	1.139	19.141	
TOTAL XYLENES	.711	.546	.868	.592	.633	0.670	18.852	

' - Response Factor (subscript is the amount of ug/L)
RF - Average Response Factor
%RSD - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Volatile HSL Compounds

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : GMA 012
Calibration Date : 04/23/85

Minimum Avg RF for SPCC is 0.300

Maximum %RSD for CCC is 30%

Laboratory ID	GS850423C12	GT850423C12	GU850423A12	GV850423A12	GW850423A12			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	Avg RF	%RSD	CCC * SPCC **
METHYL CHLORIDE	.894	.890	.789	.764	.736	0.815	8.994	* *
METHYL BROMIDE	2.484	2.272	2.081	2.011	1.971	2.164	9.833	
VINYL CHLORIDE	1.831	.924	1.440	1.397	1.403	1.399	23.002	*
CHLOROETHANE	1.072	1.054	.913	.909	.907	0.971	8.667	
METHYLENE CHLORIDE	2.580	2.309	1.732	1.670	1.691	1.996	21.075	
ACETONE (2-PROPANONE)	1.455	1.373	.750	.570	.738	0.977	41.557	
CARBON DISULFIDE	4.119	4.648	4.141	4.146	4.798	4.370	7.464	
1,1-DICHLOROETHYLENE	1.626	1.465	1.909	1.411	1.428	1.468	6.196	*
1,1-DICHLOROETHANE	3.179	2.795	2.603	2.679	2.746	2.800	7.995	* *
1,2-TRANS-DICHLOROETHYLENE	1.699	1.541	1.460	1.442	1.458	1.520	7.057	
CHLOROFORM	4.061	3.403	3.164	3.063	3.146	3.367	12.107	*
1,2-DICHLOROETHANE	2.843	2.387	2.073	2.063	2.091	2.291	14.698	
2-BUTANONE	.007	.083	.058	.053	.070	0.070	21.014	
1,1,1-TRICHLOROETHANE	.671	.571	.497	.499	.534	0.554	12.987	
CARBON TETRACHLORIDE	.660	.567	.499	.494	.523	0.548	12.541	
VINYL ACETATE	.725	.760	.578	.576	.724	0.673	13.158	
BROMODICHLOROMETHANE	.810	.685	.590	.596	.644	0.665	13.485	
1,2-DICHLOROPROPANE	.509	.422	.365	.367	.397	0.412	14.364	*
TRANS-1,3-DICHLOROPROPYLENE	.275	.229	.219	.226	.251	0.242	9.188	
TRICHLOROETHYLENE	.580	.488	.410	.406	.431	0.463	19.819	
CHLORODIBROMOMETHANE	.641	.554	.469	.459	.488	0.522	14.504	
1,1,2-TRICHLOROETHANE	.487	.401	.326	.316	.337	0.373	19.193	
BENZENE	1.160	.970	.829	.819	.871	0.930	15.240	
CIS-1,3-DICHLOROPROPYLENE	.890	.771	.657	.662	.720	0.740	12.943	
2-CHLOROETHYLVINYL ETHER	.360	.312	.257	.259	.291	0.296	14.331	
BROMOFORM	.478	.435	.365	.346	.364	0.398	18.220	* *
2-HEXANONE	.743	.766	.578	.587	.721	0.679	13.234	
4-METHYL-2-PENTANONE	.593	.621	.484	.464	.571	0.547	12.606	
TETRACHLOROETHYLENE	.563	.474	.416	.423	.442	0.463	12.945	
1,1,2,2-TETRACHLOROETHANE	.949	.778	.629	.604	.614	0.715	20.823	* *
TOLUENE	.848	.718	.641	.663	.704	0.715	11.300	*
CHLOROBENZENE	1.249	1.071	.938	.962	1.012	1.046	11.853	* *
ETHYLBENZENE	.660	.556	.482	.488	.509	0.539	13.644	*
STYRENE	1.301	1.156	1.066	1.035	1.170	1.186	11.906	
TOTAL XYLENES	.771	.801	.637	.625	.710	0.709	11.069	

RF - Response Factor (subscript is the amount of ug/L)
*ug RF - Average Response Factor
%D - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Semivolatile HSL Compounds
(Page 1)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : OMA #15
Calibration Date : 05/10/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MR850511A15	MS850510B15	ML850510B15	MK850510B15	MI850510B15			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
N-NITROSODIMETHYLAMINE	.958	.878	.995	.985	.985	0.960	4.991	
PHENOL	2.493	2.350	2.619	2.413	2.267	2.430	5.511	*
ANILINE	2.299	1.764	2.518	2.411	2.013	2.201	14.024	
BIS (2-CHLOROETHYL) ETHER	2.130	2.084	2.014	1.930	2.013	2.034	3.768	
2-CHLOROPHENOL	1.450	1.468	1.492	1.442	1.448	1.459	1.418	
1,3-DICHLOROBENZENE	1.573	1.537	1.544	1.550	1.516	1.544	1.341	
1,4-DICHLOROBENZENE	1.749	1.615	1.650	1.608	1.581	1.641	3.997	*
BENZYL ALCOHOL	.917	.982	.947	.955	1.000	0.960	3.344	
1,2-DICHLOROBENZENE	1.575	1.544	1.525	1.439	1.464	1.510	3.744	
O-CRESOL	1.250	1.285	1.320	1.294	1.283	1.286	1.955	
BIS (2-CHLOROISOPROPYL) ETHER	3.821	3.894	3.502	3.535	3.619	3.674	4.748	
P-CRESOL	1.407	1.484	1.437	1.421	1.479	1.446	2.377	
N-NITROSODI-N-PROPYLAMINE	1.319	1.398	1.329	1.331	1.391	1.354	2.778	* *
HEXACHLOROETHANE	.727	.759	.777	.786	.810	0.772	4.017	
NITROBENZENE	1.591	1.827	1.764	1.707	1.671	1.752	6.243	
ISOPHORONE	.863	.994	.919	.962	.899	0.927	5.577	
NITROPHENOL	.156	.214	.193	.213	.210	0.197	12.363	*
2,4-DIMETHYLPHENOL	.298	.347	.340	.346	.357	0.338	6.872	
BIS (2-CHLOROETHOXY) METHANE	.474	.567	.571	.561	.557	0.546	7.442	
BENZOIC ACID	.094	.167	.130	.147	.162	0.140	21.116	
2,4-DICHLOROPHENOL	.241	.277	.251	.264	.269	0.261	5.548	
1,2,4-TRICHLOROBENZENE	.314	.344	.324	.340	.337	0.332	3.756	
NAPHTHALENE	1.177	1.155	1.175	1.105	.911	1.106	9.935	
4-CHLOROANILINE	.367	.407	.403	.413	.411	0.400	4.755	
HEXACHLOROBUTADIENE	.141	.162	.150	.154	.168	0.155	6.589	*
P-CHLORO-M-CRESOL	.261	.347	.262	.304	.319	0.299	12.440	*
2-METHYLNAPHTHALENE	.548	.675	.636	.607	.622	0.618	7.519	
HEXACHLOROCYCLOPENTADIENE	$	.051	.140	.141	.168	0.125	40.757	* *
2,4,6-TRICHLOROPHENOL	.366	.348	.314	.353	.360	0.348	5.01[illegible]	*
2,4,5-TRICHLOROPHENOL	.366	.348	.314	.353	.338	0.344	5.652	
2-CHLORONAPHTHALENE	1.367	1.327	1.393	1.397	1.275	1.352	3.781	
2-NITROANILINE	.298	.572	.299	.399	.464	0.406	28.618	
DIMETHYL PHTHALATE	1.415	2.062	1.313	1.433	1.357	1.516	20.369	
ACENAPHTHYLENE	1.884	1.948	1.903	2.169	1.668	1.914	9.305	
3-NITROANILINE	.322	.546	.365	.416	.437	0.417	20.362	
ACENAPHTHENE	1.224	1.249	1.350	1.488	1.266	1.315	8.[illegible]	*
2,4-DINITROPHENOL	$	.054	.046	.059	.090	0.062	31.492	* *
4-NITROPHENOL	.164	.178	.170	.205	.239	0.191	16.211	* *
DIBENZOFURAN	1.596	1.703	1.674	1.765	1.563	1.660	4.907	

RF - Response Factor (subscript is the amount of nanograms)
AF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng

Initial Calibration Data
Semivolatile MSL Compounds
(Page 2)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No.:

Instrument ID : OMA 015
Calibration Date : 05/10/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID		MR850511A15	MG850510B15	ML850510B15	MK850510B15	MJ850510B15			
Compound		RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
2,4-DINITROTOLUENE		.297	.417	.347	.409	.420	0.378	14.404	
2,6-DINITROTOLUENE		.240	.412	.248	.308	.305	0.303	22.740	
DIETHYL PHTHALATE		1.512	1.872	1.334	1.414	1.498	1.526	13.504	
4-CHLOROPHENYL PHENYL ETHER		.507	.523	.512	.568	.543	0.530	4.726	
FLUORENE		1.132	1.279	1.347	1.337	1.291	1.277	6.749	
4-NITROANILINE		.155	.230	.226	.286	.310	0.242	25.016	
4,6-DINITRO-O-CRESOL		.067	.071	.073	.096	.116	0.073	56.099	
N-NITROSODIPHENYLAMINE	(1)	.546	.792	.569	.644	.566	0.623	16.252	*
4-BROMOPHENYL PHENYL ETHER		.176	.229	.192	.208	.194	0.200	9.953	
HEXACHLOROBENZENE		.265	.322	.251	.279	.279	0.279	9.535	
PENTACHLOROPHENOL		$	.064	.052	.071	.088	0.069	21.787	*
PHENANTHRENE		1.198	1.403	1.089	1.235	1.192	1.222	9.456	
ANTHRACENE		1.303	1.137	1.223	1.241	1.072	1.195	7.621	
DI-N-BUTYL PHTHALATE		1.248	1.026	1.204	1.451	1.373	1.260	13.012	
FLUORANTHENE		.868	.716	1.052	1.024	.947	0.921	14.678	*
BENZIDINE		$	.018	.017	.137	.043	0.053	106.181	* *
PYRENE		2.138	1.977	2.059	1.734	1.698	1.921	10.209	
BUTYL BENZYL PHTHALATE		.845	.683	.564	.603	.766	0.692	16.670	
3,3'-DICHLOROBENZIDINE		.165	.239	.204	.222	.303	0.226	22.496	
BENZO (A) ANTHRACENE		1.625	1.258	1.168	1.152	1.232	1.287	15.066	
BIS (2-ETHYLHEXYL) PHTHALATE		1.519	1.419	1.318	1.367	1.429	1.410	5.342	
CHRYSENE		1.730	1.310	1.252	1.176	1.273	1.348	16.233	
DI-N-OCTYL PHTHALATE		2.941	2.361	2.356	2.978	3.483	2.624	16.846	*
3,4-BENZOFLUORANTHENE		2.000	1.353	.718	.731	1.479	1.256	43.221	
BENZO (K) FLUORANTHENE		2.000	1.353	.718	.731	.740	1.108	51.181	
BENZO (A) PYRENE		1.435	1.474	1.301	1.410	.740	1.272	23.951	*
INDENO (1,2,3-CD) PYRENE		1.016	.828	1.046	1.087	1.329	1.061	16.926	
DIBENZO (A,H) ANTHRACENE		.811	.709	.870	.930	1.200	0.904	20.409	
BENZO (GHI) PERYLENE		.984	.746	.891	.851	1.103	0.915	14.796	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be separated from diphenylamine

Initial Calibration Data
Semivolatile HSL Compounds
(Page 1)

Case No: General Testing
tractor: CompuChem Laboratories
:ract No. _____

Instrument ID : DWA M22
Calibration Date : 04/09/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MK850409C22	MG850409C22	MI850409C22	MJ850409C22	MM850409C22			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
N-NITROSODIMETHYLAMINE	.518	.727	.694	.715	.801	0.691	15.179	
PHENOL	1.484	1.806	1.712	1.683	1.748	1.686	7.250	*
ANILINE	1.442	1.420	1.338	1.326	1.352	1.376	3.781	
BIS (2-CHLOROETHYL) ETHER	1.442	1.420	1.338	1.326	1.352	1.376	3.781	
2-CHLOROPHENOL	1.135	1.310	1.335	1.292	1.341	1.283	6.628	
1,3-DICHLOROBENZENE	1.384	1.423	1.369	1.433	1.376	1.397	2.041	
1,4-DICHLOROBENZENE	1.356	1.331	1.331	1.318	1.401	1.347	2.457	*
BENZYL ALCOHOL	.555	.687	.730	.757	.814	0.709	13.767	
1,2-DICHLOROBENZENE	1.356	1.331	1.331	1.318	1.401	1.347	2.457	
O-CRESOL	.865	1.025	.958	1.003	1.039	0.976	7.203	
BIS (2-CHLOROISOPROPYL) ETHER	1.450	1.523	1.467	1.482	1.586	1.502	3.672	
P-CRESOL	.879	1.036	1.145	1.063	1.214	1.068	11.837	
N-NITROSODI-N-PROPYLAMINE	.886	1.043	1.009	1.045	1.104	1.017	7.985	* *
HEXACHLOROETHANE	.664	.751	.736	.743	.798	0.738	6.561	
NITROBENZENE	1.400	1.443	1.458	1.497	1.690	1.498	7.546	
ISOPHORONE	.814	.848	.823	.836	.780	0.820	3.141	
NITROPHENOL	.150	.187	.197	.216	.218	0.194	14.350	*
2,4-DIMETHYLPHENOL	.273	.300	.306	.310	.333	0.304	7.029	
BIS (2-CHLOROETHOXY) METHANE	.370	.396	.422	.425	.443	0.411	6.893	
BENZOIC ACID	.124	.155	.162	.193	.227	0.172	22.794	
2,4-DICHLOROPHENOL	.260	.291	.317	.321	.326	0.303	9.199	
1,2,4-TRICHLOROBENZENE	.370	.369	.363	.375	.368	0.368	1.375	
NAPHTHALENE	1.076	1.070	1.060	1.072	1.049	1.065	1.012	
4-CHLOROANILINE	.136	.136	.134	.136	.140	0.136	1.606	
HEXACHLOROBUTADIENE	.234	.228	.230	.240	.229	0.232	2.147	*
P-CHLORO-M-CRESOL	.260	.348	.367	.385	.408	0.358	13.579	*
2-METHYLNAPHTHALENE	.595	.635	.631	.619	.661	0.628	3.859	
HEXACHLOROCYCLOPENTADIENE	.107	.223	.251	.304	.309	0.239	34.414	* *
2,4,6-TRICHLOROPHENOL	.347	.395	.396	.397	.407	0.388	6.121	*
2,4,5-TRICHLOROPHENOL	.347	.395	.396	.397	.407	0.388	6.121	
2-CHLORONAPHTHALENE	1.200	1.198	1.178	1.159	1.168	1.180	1.529	
2-NITROANILINE	.317	.412	.430	.414	.505	0.416	16.142	
DIMETHYL PHTHALATE	1.334	1.413	1.330	1.256	1.426	1.352	5.123	
ACENAPHTHYLENE	1.699	1.776	1.705	1.717	1.783	1.736	2.334	
3-NITROANILINE	.103	.078	.100	.199	.274	0.151	55.166	
ACENAPHTHENE	1.187	1.177	1.131	1.145	1.140	1.156	2.118	*
2,4-DINITROPHENOL	$	.028	.040	.054	.088	0.053	48.808	* *
4-NITROPHENOL	.936	.914	1.046	.902	.909	0.941	6.327	* *
DIBENZOFURAN	1.584	1.649	1.589	1.529	1.566	1.582	2.653	

** - Response Factor (subscript is the amount of nanograms)
RF - Average Response factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng

Initial Calibration Data
Semivolatile HSL Compounds
(Page 2)

Case No. General Testing
tractor: CompuChem Laboratories
.tract No. _____

Instrument ID : GWA M22
Calibration Date : 04/09/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID		WK850409C22	WG850409C22	WI850409C22	WJ850409C22	WH850409C22			
Compound		RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
2,4-DINITROTOLUENE		.320	.424	.345	.421	.372	0.376	12.157	
2,6-DINITROTOLUENE		.207	.269	.275	.263	.296	0.262	12.733	
DIETHYL PHTHALATE		1.291	1.511	1.426	1.396	1.500	1.425	6.257	
4-CHLOROPHENYL PHENYL ETHER		.580	.604	.579	.554	.610	0.585	3.855	
FLUORENE		1.094	1.200	1.202	1.137	1.204	1.167	4.261	
4-NITROANILINE		.047	.094	.107	.119	.177	0.109	43.150	
4,6-DINITRO-O-CRESOL		.029	.062	.074	.089	.099	0.071	38.912	
N-NITROSODIPHENYLAMINE	(1)	.460	.495	.448	.488	.444	0.457	4.086	*
4-BROMOPHENYL PHENYL ETHER		.212	.220	.214	.237	.219	0.221	4.486	
HEXACHLOROBENZENE		.320	.301	.303	.322	.288	0.307	4.615	
PENTACHLOROPHENOL		.095	.122	.132	.147	.151	0.129	17.364	*
PHENANTHRENE		1.025	.989	.981	1.085	1.012	1.018	4.049	
ANTHRACENE		.907	.897	.913	.900	.828	0.889	3.873	
DI-N-BUTYL PHTHALATE		.995	1.197	1.139	1.200	1.219	1.150	7.973	
FLUORANTHENE		.891	.997	1.014	1.022	1.077	1.000	6.803	*
PYRENE		$	.024	.019	.022	.023	0.022*	10.219	* *
BENZIDINE		1.591	1.714	1.602	1.601	1.680	1.636	3.390	
BUTYL BENZYL PHTHALATE		.431	.650	.574	.635	.744	0.607	19.051	
3,3'-DICHLOROBENZIDINE		.130	.140	.151	.172	.221	0.163	22.067	
BENZO (A) ANTHRACENE		1.195	2.287	1.132	1.295	1.326	1.447	32.885	
BIS (2-ETHYLHEXYL) PHTHALATE		.630	.920	.809	.837	.933	0.825	14.772	
CHRYSENE		1.195	2.287	1.132	1.295	1.326	1.447	32.885	
DI-N-OCTYL PHTHALATE		.937	1.572	1.388	1.452	1.684	1.407	20.335	*
3,4-BENZOFLUORANTHENE		2.228	2.400	2.478	2.510	2.537	2.431	5.119	
BENZO (K) FLUORANTHENE		2.228	2.400	2.478	2.510	2.537	2.431	5.119	
BENZO (A) PYRENE		.932	1.023	1.083	1.135	1.136	1.062	8.146	*
INDENO (1,2,3-CD) PYRENE		.854	.897	1.091	1.087	1.116	1.009	12.224	
DIBENZO (A,H) ANTHRACENE		.639	.710	.856	.842	.892	0.788	13.676	
BENZO (GHI) PERYLENE		.741	.778	.970	.911	.969	0.874	12.261	

RF - Response Factor (subscript is the amount of nanograms)
RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Initial Calibration Data
Semivolatile HSL Compounds
(Page 1)

Case No: General Testing
ntractor: CompuChem Laboratories
ntract No. _____

Instrument ID : OMA #15
Calibration Date : 05/10/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MB850511B15	MG850510B15	ML850510B15	MK850510B15	MI850510B15			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
N-NITROSODIMETHYLAMINE	.959	.878	.995	.985	.985	0.960	4.991	
PHENOL	2.493	2.358	2.619	2.413	2.267	2.430	5.511	*
ANILINE	2.299	1.764	2.518	2.411	2.013	2.201	14.024	
BIS (2-CHLOROETHYL) ETHER	2.130	2.088	2.014	1.930	2.013	2.034	3.768	
2-CHLOROPHENOL	1.850	1.469	1.492	1.442	1.446	1.459	1.418	
1,3-DICHLOROBENZENE	1.573	1.537	1.544	1.550	1.516	1.544	1.341	
1,4-DICHLOROBENZENE	1.749	1.615	1.650	1.608	1.581	1.641	3.997	*
BENZYL ALCOHOL	.917	.982	.947	.955	1.000	0.960	3.344	
1,2-DICHLOROBENZENE	1.575	1.544	1.525	1.439	1.464	1.510	3.748	
O-CRESOL	1.250	1.285	1.320	1.294	1.283	1.286	1.955	
BIS (2-CHLOROISOPROPYL) ETHER	3.821	3.894	3.502	3.535	3.619	3.674	4.748	
P-CRESOL	1.407	1.484	1.437	1.421	1.479	1.446	2.377	
N-NITROSODI-N-PROPYLAMINE	1.319	1.398	1.329	1.331	1.391	1.354	2.778	* *
HEXACHLOROETHANE	.737	.759	.777	.786	.810	0.772	4.017	
NITROBENZENE	1.591	1.827	1.764	1.707	1.871	1.752	6.243	
ISOPHORONE	.881	.994	.919	.962	.899	0.927	5.577	
NITROPHENOL	.159	.214	.193	.213	.210	0.197	12.363	*
2,4-DIMETHYLPHENOL	.298	.347	.340	.348	.357	0.338	6.872	
BIS (2-CHLOROETHOXY) METHANE	.479	.567	.571	.561	.557	0.546	7.442	
BENZOIC ACID	.094	.167	.130	.147	.162	0.140	21.116	
2,4-DICHLOROPHENOL	.241	.277	.251	.264	.269	0.261	5.548	
1,2,4-TRICHLOROBENZENE	.314	.349	.324	.340	.337	0.332	3.756	
NAPHTHALENE	1.177	1.155	1.175	1.105	.916	1.106	9.935	
4-CHLOROANILINE	.367	.407	.403	.413	.411	0.400	4.755	
HEXACHLOROBUTADIENE	.141	162	.150	154	.168	0.155	6.582	*
P-CHLORO-M-CRESOL	.264	.347	.262	.304	.319	0.299	12.448	*
2-METHYLNAPHTHALENE	.548	.675	.636	.607	.622	0.618	7.519	
HEXACHLOROCYCLOPENTADIENE	$	.051	.140	.141	.168	0.125	40.757	* *
2,4,6-TRICHLOROPHENOL	.366	.398	.314	.353	.369	0.348	5.814	*
2,4,5-TRICHLOROPHENOL	.366	.398	.314	.353	.336	0.344	5.652	
2-CHLORONAPHTHALENE	1.367	1.327	1.393	1.397	1.275	1.352	3.761	
2-NITROANILINE	.298	.572	.299	.399	.464	0.406	28.619	
DIMETHYL PHTHALATE	1.415	2.081	1.313	1.433	1.357	1.516	20.369	
ACENAPHTHYLENE	1.854	1.940	1.903	2.168	1.668	1.914	9.305	
3-NITROANILINE	.322	.546	.365	.416	.437	0.417	20.362	
ACENAPHTHENE	1.224	1.249	1.350	1.485	1.266	1.315	8.167	*
2,4-DINITROPHENOL	$	.054	.046	.059	.090	0.062	31.492	* *
4-NITROPHENOL	.164	.170	.170	.209	.239	0.191	16.311	* *
DIBENZOFURAN	1.596	1.702	1.674	1.765	1.563	1.660	4.907	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20 ng

Initial Calibration Data
Semivolatile NSL Compounds
(Page 2)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : CMA #15
Calibration Date : 05/10/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID		MB850511B15	MG850510B15	ML850510B15	MK850510B15	MI850510B15			
Compound		RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
2,4-DINITROTOLUENE		.297	.417	.347	.409	.420	0.378	14.404	
2,6-DINITROTOLUENE		.240	.417	.248	.309	.305	0.303	22.740	
DIETHYL PHTHALATE		1.512	1.872	1.334	1.414	1.498	1.526	13.504	
4-CHLOROPHENYL PHENYL ETHER		.507	.523	.512	.568	.543	0.530	4.726	
FLUORENE		1.132	1.279	1.347	1.337	1.291	1.277	6.749	
4-NITROANILINE		.155	.230	.228	.286	.310	0.242	25.016	
4,6-DINITRO-O-CRESOL		.007	.071	.073	.096	.116	0.073	56.049	
N-NITROSODIPHENYLAMINE	(1)	.546	.792	.569	.644	.566	0.623	16.252	*
4-BROMOPHENYL PHENYL ETHER		.176	.229	.192	.209	.194	0.200	9.953	
HEXACHLOROBENZENE		.265	.322	.251	.279	.279	0.279	9.535	
PENTACHLOROPHENOL		$	.064	.052	.071	.086	0.069	21.787	*
PHENANTHRENE		1.198	1.403	1.084	1.235	1.192	1.222	9.456	
ANTHRACENE		1.303	1.137	1.223	1.241	1.072	1.195	7.621	
DI-N-BUTYL PHTHALATE		1.248	1.026	1.204	1.451	1.373	1.260	13.012	
FLUORANTHENE		.868	.716	1.052	1.024	.947	0.921	14.678	*
BENZIDINE		$	.018	.017	.137	.043	0.053	106.181	* *
PYRENE		2.132	1.977	2.059	1.734	1.696	1.921	10.209	
BUTYL BENZYL PHTHALATE		.845	.683	.564	.603	.766	0.692	16.670	
3,3'-DICHLOROBENZIDINE		.165	.239	.204	.222	.303	0.226	22.496	
BENZO (A) ANTHRACENE		1.625	1.258	1.168	1.152	1.232	1.287	15.066	
BIS (2-ETHYLHEXYL) PHTHALATE		1.519	1.419	1.318	1.367	1.429	1.410	5.342	
CHRYSENE		1.730	1.310	1.252	1.176	1.273	1.348	16.233	
DI-N-OCTYL PHTHALATE		2.941	2.361	2.356	2.978	3.483	2.824	16.846	*
3,4-BENZOFLUORANTHENE		2.000	1.353	.716	.731	1.479	1.256	43.221	
BENZO (K) FLUORANTHENE		2.000	1.353	.718	.731	.740	1.108	51.181	
BENZO (A) PYRENE		1.434	1.474	1.301	1.410	.749	1.272	23.951	*
INDENO (1,2,3-CD) PYRENE		1.016	.828	1.048	1.087	1.329	1.061	16.926	
DIBENZO (A,H) ANTHRACENE		.811	.709	.870	.930	1.200	0.904	20.405	
BENZO (GHI) PERYLENE		.984	.746	.891	.851	1.103	0.915	14.796	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Initial Calibration Data
Semivolatile HSL Compounds
(Page 1)

Case No: Gen Test
Contractor: CompuChem Laboratories
Contract No.

Instrument ID : GWA 02Z
Calibration Date : 05/24/05

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	WG000020W2Z	WG000050W2Z	WG000080W2Z	WG000120W2Z	WG000160W2Z			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
N-NITROSODIMETHYLAMINE	2.888	2.827	3.131	3.170	2.649	2.933	7.425	
PHENOL	2.337	2.371	2.420	2.065	2.198	2.278	6.365	*
ANILINE	1.581	1.789	1.741	1.904	1.754	1.754	6.608	
BIS (2-CHLOROETHYL) ETHER	1.447	1.660	1.680	1.658	1.727	1.634	6.628	
2-CHLOROPHENOL	3.319	3.558	3.507	3.427	3.444	3.450	2.634	
1,3-DICHLOROBENZENE	1.495	1.597	1.575	1.623	1.633	1.585	3.471	
1,4-DICHLOROBENZENE	1.704	1.897	1.598	1.742	1.641	1.657	3.912	*
BENZYL ALCOHOL	.781	.904	.946	.911	.911	0.891	7.110	
1,2-DICHLOROBENZENE	1.457	1.494	1.424	1.568	1.488	1.486	3.596	
O-CRESOL	1.073	1.139	1.081	1.098	1.150	1.112	3.585	
BIS (2-CHLOROISOPROPYL) ETHER	3.855	4.018	3.984	3.916	3.802	3.915	2.267	
P-CRESOL	1.213	1.251	1.359	1.218	1.281	1.264	4.694	
N-NITROSODI-N-PROPYLAMINE	1.418	1.534	1.541	1.447	1.326	1.453	6.126	**
HEXACHLOROETHANE	.691	.818	.813	.843	.823	0.798	7.581	
NITROBENZENE	1.808	2.011	1.965	1.854	1.837	1.899	4.843	
ISOPHORONE	.997	1.103	1.145	1.076	1.020	1.068	5.622	
NITROPHENOL	.173	.218	.220	.223	.217	0.210	10.053	*
,4-DIMETHYLPHENOL	.304	.358	.355	.374	.183	0.315	24.884	
BIS (2-CHLOROETHOXY) METHANE	.487	.526	.534	.558	.573	0.536	6.163	
BENZOIC ACID	.214	.246	.244	.223	.183	0.222	11.634	
2,4-DICHLOROPHENOL	.287	.317	.322	.309	.309	0.309	4.347	
1,2,4-TRICHLOROBENZENE	.349	.369	.363	.390	.376	0.370	4.183	
NAPHTHALENE	1.117	1.127	1.115	1.152	1.143	1.131	1.426	
4-CHLOROANILINE	.378	.440	.461	.456	.451	0.440	9.442	
HEXACHLOROBUTADIENE	.185	.207	.218	.228	.226	0.213	8.315	*
P-CHLORO-M-CRESOL	.386	.433	.459	.469	.435	0.436	7.404	*
2-METHYLNAPHTHALENE	.573	.615	.657	.632	.607	0.617	5.054	
HEXACHLOROCYCLOPENTADIENE	.249	.412	.435	.472	.953	0.424	26.331	**
2,4,6-TRICHLOROPHENOL	.386	.443	.476	.475	.491	0.454	9.210	*
2,4,5-TRICHLOROPHENOL	.386	.443	.476	.475	.491	0.454	9.210	
2-CHLORONAPHTHALENE	1.317	1.331	1.380	1.383	1.562	1.395	7.017	
2-NITROANILINE	.548	.707	.780	.638	.674	0.670	12.803	
DIMETHYL PHTHALATE	1.337	1.424	1.645	1.421	1.597	1.485	8.759	
ACENAPHTHYLENE	1.810	1.929	2.083	1.977	2.101	1.984	5.646	
3-NITROANILINE	.209	.271	.353	.285	.378	0.299	22.359	
ACENAPHTHENE	1.240	1.289	1.419	1.399	1.494	1.368	7.494	*
2,4-DINITROPHENOL	.040	.099	.120	.089	.120	0.094	35.005	**
4-NITROPHENOL	.696	.756	.874	.792	.825	0.788	8.586	**
DIBENZOFURAN	1.563	1.668	1.814	1.721	1.914	1.732	7.569	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%D - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng

Initial Calibration Data
Semivolatile HSL Compounds
(Page 2)

Case No: *Gen Test* Instrument ID : GHA #22
Contractor: CompuChem Laboratories Calibration Date : 05/24/85
Contract No. ______________________

Minimum Avg RF for SPCC is 0.050 Maximum %RSD for CCC is 30%

Laboratory ID		HG000020A22	HG000050A22	HG000080A22	HG000120A22	HG000160A22			
Compound		RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
2,4-DINITROTOLUENE		.350	.463	.552	.483	.479	0.465	15.682	
2,6-DINITROTOLUENE		.256	.363	.391	.344	.391	0.349	16.015	
DIETHYL PHTHALATE		1.249	1.385	1.595	1.406	1.414	1.410	8.752	
4-CHLOROPHENYL PHENYL ETHER		.494	.595	.648	.607	.686	0.606	11.885	
FLUORENE		1.169	1.263	1.499	1.283	1.502	1.343	11.161	
4-NITROANILINE		.100	.236	.295	.262	.296	0.238	34.105	
4,6-DINITRO-O-CRESOL		.057	.100	.113	.112	.117	0.100	24.645	
N-NITROSODIPHENYLAMINE	(1)	.488	.460	.487	.552	.580	0.513	9.760	*
4-BROMOPHENYL PHENYL ETHER		.217	.231	.241	.274	.275	0.248	10.493	
HEXACHLOROBENZENE		.303	.312	.333	.363	.383	0.338	10.005	
PENTACHLOROPHENOL		.092	.149	.160	.151	.173	0.145	21.558	*
PHENANTHRENE		1.019	1.051	1.137	1.161	1.264	1.126	8.598	
ANTHRACENE		.878	.950	1.071	1.059	1.048	1.001	8.418	
DI-N-BUTYL PHTHALATE		1.036	1.163	1.343	1.356	1.435	1.267	12.857	
FLUORANTHENE		.715	.892	1.091	1.012	1.103	0.963	16.820	*
[illegible]ZIDINE		$	.004	.002	.013	.043	0.016*	120.592	**
[illegible]RENE		1.610	1.470	1.580	1.547	1.498	1.541	3.733	
BUTYL BENZYL PHTHALATE		.535	.585	.608	.614	.579	0.584	5.350	
3,3'-DICHLOROBENZIDINE		.886	.299	.341	1.121	1.083	0.746	53.321	
BENZO (A) ANTHRACENE		1.121	1.218	1.293	1.268	1.320	1.244	6.301	
BIS (2-ETHYLHEXYL) PHTHALATE		.908	1.083	1.112	1.136	1.163	1.081	9.321	
CHRYSENE		1.022	1.067	1.106	1.091	1.093	1.076	2.949	
DI-N-OCTYL PHTHALATE		1.324	1.710	1.784	1.964	2.090	1.776	16.256	*
3,4-BENZOFLUORANTHENE		1.174	1.189	1.285	1.294	1.547	1.298	11.533	
BENZO (K) FLUORANTHENE		1.037	1.137	1.180	1.349	1.311	1.203	10.625	
BENZO (A) PYRENE		.992	1.060	1.147	1.243	1.334	1.156	11.886	*
INDENO (1,2,3-CD) PYRENE		1.236	1.296	1.210	1.303	1.309	1.271	3.534	
DIBENZO (A,H) ANTHRACENE		.945	1.097	1.152	1.288	1.366	1.170	14.133	
BENZO (GHI) PERYLENE		1.020	1.100	1.168	1.285	1.339	1.182	11.059	

RF - Response Factor (subscript is the amount of nanograms)
AvRF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20 [illegible]
(1) - Cannot be separated from diphenylamine

Continuing Calibration Check
Volatile HSL Compounds

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : 08A #11

Calibration Date: 05/29/85
Time: 09:47
Laboratory ID : CS850529A11
Initial Calabration Date: 05/23/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
METHYL CHLORIDE	1.250	1.328	-6.198		**
METHYL BROMIDE	1.752	1.773	-1.227		
VINYL CHLORIDE	1.311	1.230	6.171	*	
CHLOROETHANE	0.683	0.672	1.638		
METHYLENE CHLORIDE	1.360	1.374	11.917		
ACETONE (2-PROPANONE)	0.249	0.286	-14.963		
CARBON DISULFIDE	4.216	3.829	9.181		
1,1-DICHLOROETHYLENE	1.353	1.245	7.970	*	
1,1-DICHLOROETHANE	2.418	2.250	6.923		**
1,2-TRANS-DICHLOROETHYLENE	1.448	1.287	11.074		
CHLOROFORM	3.562	3.301	7.332	*	
1,2-DICHLOROETHANE	2.204	2.193	0.467		
2-BUTANONE	0.024	0.027	-10.416		
1,1,1-TRICHLOROETHANE	0.678	0.621	8.440		
CARBON TETRACHLORIDE	0.696	0.619	11.023		
VINYL ACETATE	0.460	0.536	-16.608		
DICHLOROBROMOMETHANE	0.827	0.699	15.484		
1,2-DICHLOROPROPANE	0.364	0.322	11.483	*	
TRANS-1,3-DICHLOROPROPYLENE	0.253	0.215	14.962		
TRICHLOROETHYLENE	0.480	0.419	12.794		
CHLORODIBROMOMETHANE	0.733	0.574	21.680		
1,1,2-TRICHLOROETHANE	0.390	0.352	9.594		
BENZENE	0.999	0.872	12.709		
CIS-1,3-DICHLOROPROPYLENE	0.789	0.677	14.198		
2-CHLOROETHYLVINYL ETHER	0.187	0.165	11.953		
BROMOFORM	0.470	0.308	34.411		**
2-HEXANONE	0.258	0.268	-3.718		
4-METHYL-2-PENTANONE	0.169	0.165	2.547		
TETRACHLOROETHYLENE	0.535	0.440	17.801		
1,1,2,2-TETRACHLOROETHANE	0.560	0.439	21.638		**
TOLUENE	0.814	0.727	10.668	*	
CHLOROBENZENE	1.117	0.997	10.692		**
ETHYLBENZENE	0.518	0.459	11.387	*	
STYRENE	1.139	1.131	0.667		
TOTAL XYLENES	0.670	0.683	-1.984		

RF(50) - Response Factor from daily standard file 50 ug/l
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Volatile HSL Compounds

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : GCA #12

Calibration Date: 05/08/85
Time: 06:08
Laboratory ID : GS850508C12
Initial Calibration Date: 04/23/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
METHYL CHLORIDE	0.815	1.072	-31.602		**
METHYL BROMIDE	2.164	1.438	33.561		
VINYL CHLORIDE	1.399	1.232	11.965	*	
CHLOROETHANE	0.971	0.618	36.398		
METHYLENE CHLORIDE	1.996	1.289	35.400		
ACETONE (2-PROPANONE)	0.977	0.485	50.399		
CARBON DISULFIDE	4.370	3.281	24.915		
1,1-DICHLOROETHYLENE	1.468	1.104	24.797	*	
1,1-DICHLOROETHANE	2.000	1.976	29.431		**
1,2-TRANS-DICHLOROETHYLENE	1.520	1.157	23.878		
CHLOROFORM	3.367	2.611	22.474	*	
1,2-DICHLOROETHANE	2.291	1.771	22.717		
2-BUTANONE	0.070	0.059	15.669		
1,1,1-TRICHLOROETHANE	0.554	0.595	-7.324		
CARBON TETRACHLORIDE	0.548	0.642	-17.122		
VINYL ACETATE	0.673	0.491	26.984		
DICHLOROBROMOMETHANE	0.665	0.643	3.338		
1,2-DICHLOROPROPANE	0.412	0.347	15.756	*	
TRANS-1,3-DICHLOROPROPYLENE	0.242	0.240	0.909		
TRICHLOROETHYLENE	0.463	0.512	-10.535		
CHLORODIBROMOMETHANE	0.522	0.595	-13.998		
1,1,2-TRICHLOROETHANE	0.373	0.330	11.492		
BENZENE	0.920	0.712	23.421		
CIS-1,3-DICHLOROPROPYLENE	0.740	0.684	7.620		
2-CHLOROETHYLVINYL ETHER	0.296	0.232	21.730		
BROMOFORM	0.398	0.696	-75.050		**
2-HEXANONE	0.675	0.569	16.170		
4-METHYL-2-PENTANONE	0.547	0.452	17.236		
TETRACHLOROETHYLENE	0.463	0.619	-33.527		
1,1,2,2-TETRACHLOROETHANE	0.715	0.666	6.828		**
TOLUENE	0.715	0.587	17.921	*	
CHLOROBENZENE	1.046	0.931	11.019		**
ETHYLBENZENE	0.539	0.501	7.012	*	
STYRENE	1.186	1.257	-6.029		
TOTAL XYLENES	0.709	0.717	-1.170		

RF(50) - Response Factor from daily standard file 50 ug/l
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Volatile NSL Compounds

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : CMA #12

Calibration Date: 05/07/85
Time: 10:41
Laboratory ID : GS850507A12
Initial Calibration Date: 04/23/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
METHYL CHLORIDE	0.815	1.462	-79.496		**
METHYL BROMIDE	2.164	2.039	5.758		
VINYL CHLORIDE	1.399	1.512	-8.062	*	
CHLOROETHANE	0.971	0.813	16.278		
METHYLENE CHLORIDE	1.996	1.690	15.340		
ACETONE (2-PROPANONE)	0.977	0.700	28.387		
CARBON DISULFIDE	4.370	3.606	12.903		
1,1-DICHLOROETHYLENE	1.468	1.393	5.088	*	
1,1-DICHLOROETHANE	2.800	2.379	15.062		**
1,2-TRANS-DICHLOROETHYLENE	1.520	1.470	3.289		
CHLOROFORM	3.367	3.687	-9.500	*	
1,2-DICHLOROETHANE	2.291	2.190	4.399		
2-BUTANONE	0.070	0.078	-10.683		
1,1,1-TRICHLOROETHANE	0.554	0.757	-36.604		
CARBON TETRACHLORIDE	0.548	0.835	-52.315		
VINYL ACETATE	0.673	0.731	-8.935		
BICHLOROBROMOMETHANE	0.665	0.813	-22.270		
1,2-DICHLOROPROPANE	0.412	0.398	3.423	*	
TRANS-1,3-DICHLOROPROPYLENE	0.242	0.299	-23.697		
TRICHLOROETHYLENE	0.463	0.678	-46.265		
CHLORODIBROMOMETHANE	0.522	0.788	-50.880		
1,1,2-TRICHLOROETHANE	0.373	0.427	-14.438		
BENZENE	0.930	0.897	3.494		
CIS-1,3-DICHLOROPROPYLENE	0.740	0.857	-15.808		
2-CHLOROETHYLVINYL ETHER	0.296	0.276	6.894		
BROMOFORM	0.398	0.868	-118.335		**
2-HEXANONE	0.679	0.754	-11.045		
4-METHYL-2-PENTANONE	0.547	0.612	-11.967		
TETRACHLOROETHYLENE	0.463	0.763	-64.788		
1,1,2,2-TETRACHLOROETHANE	0.715	0.824	-15.293		**
TOLUENE	0.715	0.747	-4.546	*	
CHLOROBENZENE	1.046	1.276	-21.915		**
ETHYLBENZENE	0.539	0.657	-21.929	*	
STYRENE	1.186	0.518	56.316		
TOTAL XYLENES	0.709	0.856	-20.778		

RF(50) - Response Factor from daily standard file 50 ug/l
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 1)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : OWA #15

Calibration Date: 05/10/85
Time: 09:20
Laboratory ID : MN050518A15
Initial Calabration Date: 05/10/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.960	0.974	-1.489		
PHENOL	2.430	2.241	7.790	*	
ANILINE	2.201	1.927	12.463		
BIS (2-CHLOROETHYL) ETHER	2.034	2.022	0.619		
2-CHLOROPHENOL	1.459	1.488	-1.932		
1,3-DICHLOROBENZENE	1.544	1.590	-2.966		
1,4-DICHLOROBENZENE	1.641	1.620	1.225	*	
BENZYL ALCOHOL	0.960	0.979	-1.978		
1,2-DICHLOROBENZENE	1.510	1.545	-2.364		
O-CRESOL	1.286	1.333	-3.638		
BIS (2-CHLOROISOPROPYL) ETHER	3.674	3.603	1.940		
P-CRESOL	1.446	1.580	-9.303		
N-NITROSODI-N-PROPYLAMINE	1.354	1.750	-29.301		**
HEXACHLOROETHANE	0.772	0.913	-18.230		
NITROBENZENE	1.752	2.345	-33.829		
ISOPHORONE	0.927	1.088	-17.274		
2-NITROPHENOL	0.197	0.220	-11.308	*	
2,4-DIMETHYLPHENOL	0.338	0.342	-1.065		
(2-CHLOROETHOXY) METHANE	0.546	0.575	-5.313		
BENZOIC ACID	0.140	0.120	14.030		
2,4-DICHLOROPHENOL	0.261	0.290	-11.439		
1,2,4-TRICHLOROBENZENE	0.332	0.329	0.814		
NAPHTHALENE	1.106	1.075	2.776		
4-CHLOROANILINE	0.400	0.390	2.522		
HEXACHLOROBUTADIENE	0.155	0.184	-18.721	*	
P-CHLORO-M-CRESOL	0.299	0.343	-14.663	*	
2-METHYLNAPHTHALENE	0.616	0.660	-6.876		
HEXACHLOROCYCLOPENTADIENE	0.125	0.269	-115.360		**
2,4,6-TRICHLOROPHENOL	0.346	0.326	6.377	*	
2,4,5-TRICHLOROPHENOL	0.344	0.350	-1.832		
2-CHLORONAPHTHALENE	1.352	1.143	15.463		
2-NITROANILINE	0.405	0.614	-51.120		
DIMETHYL PHTHALATE	1.516	1.402	7.493		
ACENAPHTHYLENE	1.914	1.709	10.729		
3-NITROANILINE	0.417	0.456	-9.302		
ACENAPHTHENE	1.315	1.134	13.798	*	
2,4-DINITROPHENOL	0.062	0.073	-16.747		**
4-NITROPHENOL	0.191	0.922	-381.956		**
DIBENZOFURAN	1.660	1.559	6.095		

RF(50) - Response Factor from daily standard file at concentration indicated
RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 2)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : QA8 #15

Calibration Date: 05/10/85
Time: 09:20
Laboratory ID : MH850510A15
Initial Calabration Date: 05/10/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-DINITROTOLUENE		0.378	0.410	-8.357		
2,6-DINITROTOLUENE		0.303	0.297	1.884		
DIETHYL PHTHALATE		1.526	1.635	-7.169		
4-CHLOROPHENYL PHENYL ETHER		0.530	0.505	4.846		
FLUORENE		1.277	1.213	5.041		
4-NITROANILINE		0.242	0.165	31.889		
4,6-DINITRO-O-CRESOL		0.073	0.096	-31.774		
N-NITROSODIPHENYLAMINE	(1)	0.623	0.496	20.099	*	
4-BROMOPHENYL PHENYL ETHER		0.200	0.205	-2.653		
HEXACHLOROBENZENE		0.279	0.247	11.389		
PENTACHLOROPHENOL		0.069	0.075	-9.461	*	
PHENANTHRENE		1.222	0.971	20.585		
ANTHRACENE		1.195	0.990	17.200		
DI-N-BUTYL PHTHALATE		1.260	1.601	-27.009		
FLUORANTHENE		0.921	1.086	-17.835	*	
BENZIDINE		0.053	0.022*	58.988		**
PYRENE		1.921	1.736	9.660		
BUTYL BENZYL PHTHALATE		0.692	1.066	-53.899		
3,3'-DICHLOROBENZIDINE		0.226	0.150	33.568		
BENZO (A) ANTHRACENE		1.287	1.360	-5.679		
BIS (2-ETHYLHEXYL) PHTHALATE		1.410	1.506	-6.814		
CHRYSENE		1.348	1.164	13.692		
DI-N-OCTYL PHTHALATE		2.024	2.299	18.599	*	
3,4-BENZOFLUORANTHENE		1.256	1.192	5.119		
BENZO (K) FLUORANTHENE		1.108	1.192	-7.543		
BENZO (A) PYRENE		1.272	1.072	15.761	*	
INDENO (1,2,3-CD) PYRENE		1.061	1.173	-10.584		
DIBENZO (A,H) ANTHRACENE		0.904	0.952	-5.353		
BENZO (GHI) PERYLENE		0.915	0.952	-4.059		

RF(50) - Response Factor from daily standard file at concentration indicated
ḡ RF - Average Response Factor from initial calibration Form VI
D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 1)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : GMA #22

Calibration Date: 05/21/85
Time: 17:41
Laboratory ID : MG850521B22
Initial Calabration Date: 04/09/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.691	0.788	-14.132		
PHENOL	1.686	1.935	-14.760	*	
ANILINE	1.376	1.516	-10.229		
BIS (2-CHLOROETHYL) ETHER	1.376	1.650	-19.920		
2-CHLOROPHENOL	1.283	1.406	-9.605		
1,3-DICHLOROBENZENE	1.397	1.540	-10.176		
1,4-DICHLOROBENZENE	1.347	1.523	-13.032	*	
BENZYL ALCOHOL	0.709	0.916	-29.196		
1,2-DICHLOROBENZENE	1.347	1.437	-6.635		
O-CRESOL	0.978	1.265	-29.320		
BIS (2-CHLORDISOPROPYL) ETHER	1.502	2.383	-58.611		
P-CRESOL	1.068	1.378	-29.067		
N-NITROSODI-N-PROPYLAMINE	1.017	1.404	-37.973		**
HEXACHLOROETHANE	0.738	0.831	-12.555		
NITROBENZENE	1.498	1.814	-21.120		
ISOPHORONE	0.820	1.013	-23.469		
2-NITROPHENOL	0.194	0.196	-1.291	*	
2,4-DIMETHYLPHENOL	0.304	0.343	-12.816		
BIS (2-CHLOROETHOXY) METHANE	0.411	0.471	-14.393		
BENZOIC ACID	0.172	0.243	-41.183		
2,4-DICHLOROPHENOL	0.303	0.309	-1.947		
1,2,4-TRICHLOROBENZENE	0.368	0.345	6.171		
NAPHTHALENE	1.065	1.083	-1.623		
4-CHLOROANILINE	0.136	0.400	-193.548		
HEXACHLOROBUTADIENE	0.232	0.201	13.393	*	
P-CHLORO-M-CRESOL	0.358	0.413	-15.352	*	
2-METHYLNAPHTHALENE	0.628	0.690	-9.869		
HEXACHLOROCYCLOPENTADIENE	0.239	0.241	-0.754		**
2,4,6-TRICHLOROPHENOL	0.388	0.388	-0.025	*	
2,4,5-TRICHLOROPHENOL	0.388	0.388	-0.025		
2-CHLORONAPHTHALENE	1.180	1.203	-1.880		
2-NITROANILINE	0.416	0.535	-28.657		
DIMETHYL PHTHALATE	1.352	1.438	-6.377		
ACENAPHTHYLENE	1.736	1.718	1.037		
3-NITROANILINE	0.151	0.406	-169.409		
ACENAPHTHENE	1.156	1.175	-1.661	*	
2,4-DINITROPHENOL	0.053	0.069	-30.857		**
4-NITROPHENOL	0.941	0.995	-5.694		**
DIBENZOFURAN	1.582	1.596	-0.859		

RF(50) - Response factor from daily standard file at concentration indicated
RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 2)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : GWA #22

Calibration Date: 05/21/85
Time: 17:41
Laboratory ID : NG850521B22
Initial Calabration Date: 04/09/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-DINITROTOLUENE		0.376	0.486	-29.197		
2,6-DINITROTOLUENE		0.262	0.286	-9.160		
DIETHYL PHTHALATE		1.425	1.369	-10.105		
4-CHLOROPHENYL PHENYL ETHER		0 585	0.549	6.201		
FLUORENE		1.167	1.261	-8.043		
4-NITROANILINE		0.109	0.220	-101.561		
4,6-DINITRO-O-CRESOL		0.071	0.093	-32.107		
N-NITROSODIPHENYLAMINE	(1)	0.457	0.377	17.439	*	
4-BROMOPHENYL PHENYL ETHER		0.221	0.205	7.116		
HEXACHLOROBENZENE		0.307	0.288	6.223		
PENTACHLOROPHENOL		0.129	0.139	-7.662	*	
PHENANTHRENE		1.018	1.054	-3.516		
ANTHRACENE		0.889	0.853	4.026		
DI-N-BUTYL PHTHALATE		1.150	1.363	-18.497		
FLUORANTHENE		1.000	1.033	-3.320	*	
BENZIDINE		0.022	0.019*	14.479		**
PYRENE		1.638	1.461	10.772		
BUTYL BENZYL PHTHALATE		0.607	0.719	-18.536		
3,3'-DICHLOROBENZIDINE		0.163	0.297	-82.595		
BENZO (A) ANTHRACENE		1.447	1.301	10.062		
BIS (2-ETHYLHEXYL) PHTHALATE		0.825	0.939	-13.847		
CHRYSENE		1.447	1.194	17.451		
DI-N-OCTYL PHTHALATE		1.407	1.711	-21.628	*	
3,4-BENZOFLUORANTHENE		2.431	0.518	78.697		
BENZO (K) FLUORANTHENE		2.431	0.518	78.697		
BENZO (A) PYRENE		1.062	1.079	-1.572	*	
INDENO (1,2,3-CD) PYRENE		1.009	1.281	-26.924		
DIBENZO (A,H) ANTHRACENE		0.789	0.993	-26 07*		
BENZO (GHI) PERYLENE		0.874	1.012	-15.863		

RF(50) - Response factor from daily standard file at concentration indicated
RF - Average Response factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 1)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : GMA #15

Calibration Date: 05/19/85
Time: 09:34
Laboratory ID : NN850519A15
Initial Calabration Date: 05/10/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.960	0.043	95.479		
PHENOL	2.430	2.380	2.049	*	
ANILINE	2.201	2.162	1.785		
BIS (2-CHLOROETHYL) ETHER	2.039	2.048	-0.683		
2-CHLOROPHENOL	1.459	1.545	-5.838		
1,3-DICHLOROBENZENE	1.549	1.562	-1.178		
1,4-DICHLOROBENZENE	1.641	1.604	2.200	*	
BENZYL ALCOHOL	0.960	1.202	-25.205		
1,2-DICHLOROBENZENE	1.510	1.532	-1.490		
O-CRESOL	1.206	1.485	-15.464		
BIS (2-CHLOROISOPROPYL) ETHER	3.674	3.782	-2.933		
P-CRESOL	1.446	1.653	-14.339		
N-NITROSODI-N-PROPYLAMINE	1.354	1.930	-42.600		**
HEXACHLOROETHANE	0.772	0.779	-0.958		
NITROBENZENE	1.752	2.309	-31.763		
ISOPHORONE	0.927	1.127	-21.522		
2-NITROPHENOL	0.197	0.216	-9.279	*	
2,4-DIMETHYLPHENOL	0.338	0.363	-7.396		
(2-CHLOROETHOXY) METHANE	0.546	0.584	-7.072		
BENZOIC ACID	0.140	0.165	-18.396		
2,4-DICHLOROPHENOL	0.261	0.299	-14.625		
1,2,4-TRICHLOROBENZENE	0.332	0.323	2.443		
NAPHTHALENE	1.106	0.996	9.966		
4-CHLOROANILINE	0.400	0.488	-21.753		
HEXACHLOROBUTADIENE	0.155	0.178	-14.783	*	
P-CHLORO-M-CRESOL	0.299	0.283	5.256	*	
2-METHYLNAPHTHALENE	0.616	0.672	-8.775		
HEXACHLOROCYCLOPENTADIENE	0.125	0.142	-13.440		**
2,4,6-TRICHLOROPHENOL	0.348	0.321	7.842	*	
2,4,5-TRICHLOROPHENOL	0.344	0.382	-11.172		
2-CHLORONAPHTHALENE	1.352	1.121	17.046		
2-NITROANILINE	0.406	0.749	-84.535		
DIMETHYL PHTHALATE	1.516	1.406	7.229		
ACENAPHTHYLENE	1.914	1.734	9.408		
3-NITROANILINE	0.417	0.546	-30.951		
ACENAPHTHENE	1.315	1.155	12.186	*	
2,4-DINITROPHENOL	0.062	0.057	8.856		**
4-NITROPHENOL	0.191	0.947	-395.031		**
DIBENZOFURAN	1.660	1.581	4.776		

RF(50) - Response factor from daily standard file at concentration indicated
RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 2)

Case No: General Testing
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : GNA #15

Calibration Date: 05/19/85
Time: 09:34
Laboratory ID : HW050519A15
Initial Calabration Date: 05/10/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-DINITROTOLUENE		0.378	0.439	-16.159		
2,6-DINITROTOLUENE		0.303	0.307	-1.322		
DIETHYL PHTHALATE		1.526	1.526	-0.006		
4-CHLOROPHENYL PHENYL ETHER		0.530	0.524	1.206		
FLUORENE		1.277	1.224	4.188		
4-NITROANILINE		0.242	0.266	-9.529		
4,6-DINITRO-O-CRESOL		0.073	0.078	-7.290		
N-NITROSODIPHENYLAMINE	(1)	0.623	0.532	14.597	*	
4-BROMOPHENYL PHENYL ETHER		0.200	0.196	2.103		
HEXACHLOROBENZENE		0.279	0.254	9.061		
PENTACHLOROPHENOL		0.069	0.064	6.695	*	
PHENANTHRENE		1.222	0.953	22.034		
ANTHRACENE		1.195	0.977	18.263		
DI-N-BUTYL PHTHALATE		1.260	1.442	-14.441		
FLUORANTHENE		0.921	1.049	-13.840	*	
BENZIDINE		0.053	0.025*	53.745		**
PYRENE		1.921	1.820	5.283		
BUTYL BENZYL PHTHALATE		0.692	1.109	-60.196		
3,3'-DICHLOROBENZIDINE		0.226	0.275	-21.333		
BENZO (A) ANTHRACENE		1.267	1.444	-12.197		
BIS (2-ETHYLHEXYL) PHTHALATE		1.410	1.668	-18.293		
CHRYSENE		1.348	1.190	11.763		
DI-N-OCTYL PHTHALATE		2.824	2.803	0.750	*	
3,4-BENZOFLUORANTHENE		1.256	1.212	3.486		
BENZO (K) FLUORANTHENE		1.108	1.212	-9.393		
BENZO (A) PYRENE		1.272	1.075	15.517	*	
INDENO (1,2,3-CD) PYRENE		1.061	1.001	5.673		
DIBENZO (A,H) ANTHRACENE		0.904	0.802	11.294		
BENZO (GHI) PERYLENE		0.915	0.818	10.644		

RF(50) - Response Factor from daily standard file at concentration indicated
RF - Average Response Factor from initial calibration form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile BSL Compounds
(Page 1)

Case No: Gen. Test
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : GMA M22

Calibration Date: 05/24/85
Time: 10:25
Laboratory ID : MG850524B22
Initial Calabration Date: 05/24/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-NITROSODIMETHYLAMINE	2.933	2.447	16.581		
PHENOL	2.278	1.956	14.143	*	
ANILINE	1.754	3.213	-83.212		
BIS (2-CHLOROETHYL) ETHER	1.634	1.768	-8.149		
2-CHLOROPHENOL	3.450	3.546	-2.791		
1,3-DICHLOROBENZENE	1.585	1.541	2.757		
1,4-DICHLOROBENZENE	1.657	1.583	4.418	*	
BENZYL ALCOHOL	0.891	0.949	-6.576		
1,2-DICHLOROBENZENE	1.486	1.485	0.080		
O-CRESOL	1.112	1.233	-10.826		
BIS (2-CHLOROISOPROPYL) ETHER	3.915	4.339	-10.822		
P-CRESOL	1.264	1.352	-6.912		
N-NITROSODI-N-PROPYLAMINE	1.453	1.609	-10.734		**
HEXACHLOROETHANE	0.798	0.852	-6.821		
NITROBENZENE	1.899	2.137	-12.544		
ISOPHORONE	1.068	1.132	-5.982		
2-NITROPHENOL	0.210	0.255	-21.075	*	
2,4-DIMETHYLPHENOL	0.315	0.364	-15.739		
BIS (2-CHLOROETHOXY) METHANE	0.536	0.546	-1.848		
BENZOIC ACID	0.222	0.266	-19.972		
2,4-DICHLOROPHENOL	0.309	0.314	-1.554		
1,2,4-TRICHLOROBENZENE	0.370	0.365	1.244		
NAPHTHALENE	1.131	1.095	3.201		
4-CHLOROANILINE	0.460	0.130	70.611		
HEXACHLOROBUTADIENE	0.213	0.214	-0.470	*	
P-CHLORO-M-CRESOL	0.436	0.448	-2.796	*	
2-METHYLNAPHTHALENE	0.617	0.646	-4.815		
HEXACHLOROCYCLOPENTADIENE	0.424	0.381	10.136		**
2,4,6-TRICHLOROPHENOL	0.454	0.422	7.090	*	
2,4,5-TRICHLOROPHENOL	0.454	0.422	7.098		
2-CHLORONAPHTHALENE	1.395	1.222	12.348		
2-NITROANILINE	0.670	0.639	4.615		
DIMETHYL PHTHALATE	1.485	1.419	4.425		
ACENAPHTHYLENE	1.984	1.683	15.161		
3-NITROANILINE	0.299	0.041	86.216		
ACENAPHTHENE	1.346	1.211	11.468	*	
2,4-DINITROPHENOL	0.094	0.113	-20.490		**
4-NITROPHENOL	0.768	0.756	3.868		**
DIBENZOFURAN	1.738	1.646	5.322		

RF(50) - Response Factor from daily standard file at concentration indicated
RF - Average Response Factor from Initial Calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

Case No: Gen Test
Contractor: CompuChem Laboratories
Contract No:
Instrument ID : GWA #22

Calibration Date: 05/24/85
Time: 18:25
Laboratory ID : MS850524B22
Initial Calibration Date: 05/24/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

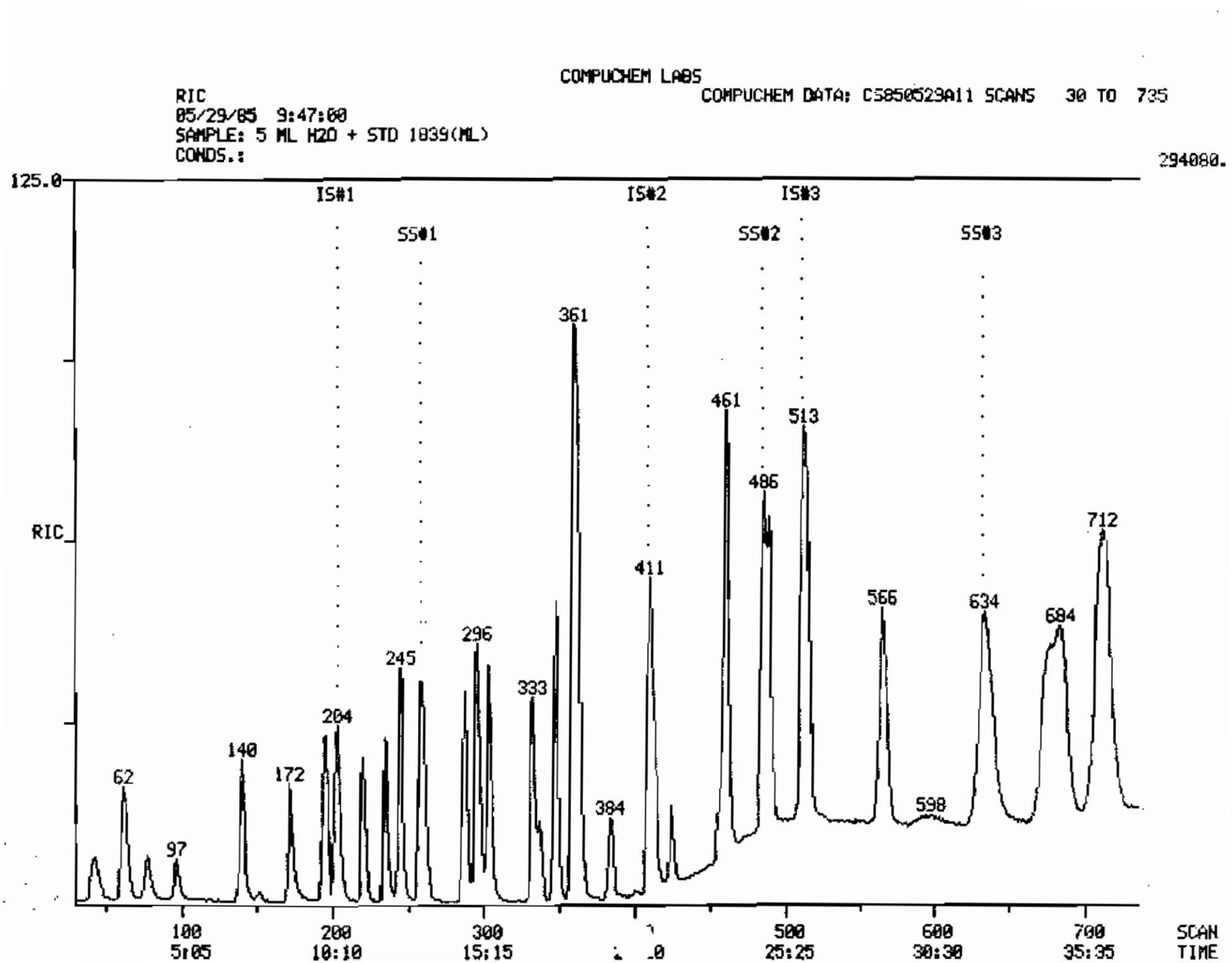
Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-DINITROTOLUENE		0.465	0.513	-10.234		
2,6-DINITROTOLUENE		0.349	0.380	-8.830		
DIETHYL PHTHALATE		1.410	1.445	-2.475		
4-CHLOROPHENYL PHENYL ETHER		0.606	0.608	-0.230		
FLUORENE		1.343	1.262	6.060		
4-NITROANILINE		0.238	0.129	45.962		
4,6-DINITRO-O-CRESOL		0.100	0.110	-9.939		
N-NITROSODIPHENYLAMINE	(1)	0.513	0.390	24.503	*	
4-BROMOPHENYL PHENYL ETHER		0.248	0.232	6.343		
HEXACHLOROBENZENE		0.338	0.304	10.293		
PENTACHLOROPHENOL		0.145	0.149	-2.343	*	
PHENANTHRENE		1.126	1.086	3.569		
ANTHRACENE		1.001	0.915	8.569		
DI-N-BUTYL PHTHALATE		1.267	1.327	-4.800		
FLUORANTHENE		0.963	0.845	12.227	*	
BENZIDINE		0.016	0.000*	100.000		**
PYRENE		1.541	1.733	-12.474		
BUTYL BENZYL PHTHALATE		0.584	0.653	-11.725		
3,3'-DICHLOROBENZIDINE		0.746	0.116	84.504		
BENZO (A) ANTHRACENE		1.244	1.212	2.588		
BIS (2-ETHYLHEXYL) PHTHALATE		1.081	1.129	-4.442		
CHRYSENE		1.078	1.121	-3.959		
DI-N-OCTYL PHTHALATE		1.776	1.747	1.655	*	
3,4-BENZOFLUORANTHENE		1.298	1.255	3.321		
BENZO (K) FLUORANTHENE		1.203	0.966	19.728		
BENZO (A) PYRENE		1.156	1.066	7.788	*	
INDENO (1,2,3-CD) PYRENE		1.271	1.144	9.939		
DIBENZO (A,H) ANTHRACENE		1.170	1.117	4.496		
BENZO (GHI) PERYLENE		1.182	1.133	4.211		

RF(50) - Response Factor from daily standard file at concentration indicated
- RF - Average Response Factor from initial calibration Form VI
- Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be separated from diphenylamine

EPA CASE# Gw test COMPUCHEM CASE SUMMARY REFERENCE GUIDE REVIEWER

fraction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
VOA	BF850529C11	CS850529C11	49944	HB					
			49945	HB					
	BF850507B12	CS850508C12	49859	507050					
	"	"	49860	507USV					
	BF805050608 12	CS850507A12	59912	BelC					


COMPUCHEM LABS
RIC
05/29/85 9:47:00
SAMPLE: 5 ML H2O + STD 1839(ML)
CONDS.:
COMPUCHEM DATA: C5850523A11 SCANS 30 TO 735
294080.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
62
97
140
172
204
245
296
333
361
384
411
461
486
513
566
598
634
684
712
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/29/85 10:32:13
DATA FILE: CS850529A11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDAROS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	80	42	36	1	72	E237S/E237U

42 COMPOUNDS PROCESSED, 36 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E1	1	-200	204	204	.	1	987	.	128	203	-1	1
2	E2	1	-407	411	410	-1	1	989	.	114	410	.	1
3	E3	1	-508	512	512	.	1	978	.	117	512	.	1
4	E1	2	-39	42	43	1	1	974	.	50	43	.	1
5	E1	3	-89	62	62	.	1	941	.	94	62	.	1
6	E1	4	-75	78	78	.	1	981	.	62	77	-1	1
7	E1	5	-95	98	97	-1	1	971	.	64	97	.	1
8	E1	6	-138	141	140	-1	1	986	.	84	140	.	1
9	E1	7	-150	153	.	.	.	.	.	43	152	.	1
10	E1	8	-169	172	172	.	1	988	.	76	172	.	1
11	E1	9	-192	195	196	1	1	992	.	96	195	-1	1
12	E1	10	-219	221	221	.	1	994	.	63	221	.	1
13	E1	11	-232	235	235	.	1	988	.	96	235	.	1
14	E1	12	-242	245	245	.	1	971	.	83	245	.	1
15	E1	13	-257	260	261	1	1	974	.	62	261	.	1
16	E2	2	-256	259	259	.	1	943	.	72	259	.	1
[illegible]	E2	3	-284	287	288	1	1	984	.	97	288	.	1
[illegible]	E2	4	-292	295	295	.	1	992	.	117	295	.	1
19	E2	5	-294	297	298	1	1	959	.	43	298	.	1
20	E2	6	-300	303	304	1	1	986	.	83	304	.	1
21	E2	7	-329	332	333	1	1	990	.	63	333	.	1
22	E2	8	-334	337	337	.	1	990	.	75	337	.	1
23	E2	9	-345	349	348	-1	1	986	.	130	348	.	1
24	E2	10	-356	360	.	.	.	.	.	129	359	.	1
25	E2	11	-358	362	362	.	1	994	.	97	362	.	1
26	E2	12	-356	360	360	.	1	992	.	78	360	.	1
27	E2	13	-359	363	362	-1	1	966	.	75	363	1	1
28	E2	14	-381	385	384	-1	1	991	.	63	384	.	1
29	E2	15	-410	414	413	-1	1	961	.	173	413	.	1
30	E3	2	-422	426	425	-1	1	944	.	43	425	.	1
31	E3	3	-453	457	456	-1	1	925	.	43	456	.	1
32	E3	4	-458	462	461	-1	1	970	.	164	461	.	1
33	E3	5	-456	460	.	.	.	.	.	83	459	.	1
34	E3	6	-486	490	489	-1	1	990	.	92	489	.	1
35	E3	7	-511	515	515	.	1	983	.	112	515	.	1
36	E3	8	-561	565	566	1	1	991	.	106	566	.	1
37	E3	9	-669	673	.	.	.	.	.	104	675	.	1
38	E3	10	-677	681	.	.	.	.	.	106	.	.	.
39	E3	11	-705	709	.	.	.	.	999	106	.	.	.
40	E4	2	-255	258	259	1	1	951	.	65	259	.	1
41	E4	3	-627	631	633	2	1	978	.	95	633	.	1
42	E4	4	-482	486	485	-1	1	987	.	98	485	.	1

QUANTITATION REPORT FILE: CS850529A11

DATA: CS850529A11.TI
05/29/85 9:47:00
SAMPLE: 5 ML H20 + STD 1539(ML)
COMMENTS:
SUBMITTED BY: 11 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLORDMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARSON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
	212 BROMODICHLOROMETHANE
	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENIENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* 05 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# DB-TOLUENE

SAH 5/30/85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
	128	203	10:19	1	1.000	A BB	39827.	50.000 UG/L	2.20
2	50	43	2:11	1	0.212	A BB	52886.	54.445 UG/L	2.40

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	62	3:09	1	0.305	A BB	70622.	52.938	UG/L	2.33
4	62	77	3:55	1	0.379	A BB	48986.	48.992	UG/L	2.16
5	64	97	4:56	1	0.478	A BB	26770.	52.332	UG/L	2.31
6	84	140	7:07	1	0.690	A BV	54723.	46.139	UG/L	2.03
7	43	152	7:44	1	0.749	A BB	11383.	80.049	UG/L	3.53
8	76	172	8:45	1	0.847	A BB	152502.	54.582	UG/L	2.40
9	96	195	9:55	1	0.961	A BB	49571.	48.593	UG/L	2.14
10	63	221	11:14	1	1.089	A BB	89627.	49.328	UG/L	2.17
11	96	235	11:57	1	1.158	A BB	51265.	47.011	UG/L	2.07
12	83	245	12:27	1	1.207	A BV	131465.	49.954	UG/L	2.20
13	62	261	13:16	1	1.286	A BB	87348.	53.739	UG/L	2.37
14	114	410	20:50	14	1.000	A BB	167780.	50.000	UG/L	2.20
15	72	259	13:10	14	0.632	A BB	4452.	68.525	UG/L	3.02
16	97	288	14:38	14	0.702	A BB	104112.	51.538	UG/L	2.27
17	117	295	15:00	14	0.720	A VB	103873.	51.281	UG/L	2.26
18	43	298	15:09	14	0.727	A BB	89994.	76.305	UG/L	3.36
19	83	304	15:27	14	0.741	A BV	117314.	47.150	UG/L	2.08
20	63	333	16:56	14	0.812	A BB	54052.	46.553	UG/L	2.05
21	75	337	17:08	14	0.822	A BB	36138.	49.761	UG/L	2.19
22	130	348	17:41	14	0.849	A BV	70224.	47.149	UG/L	2.08
23	129	359	18:15	14	0.876	A BB	96304.	45.053	UG/L	1.99
24	97	362	18:24	14	0.883	A VB	59121.	48.862	UG/L	2.15
25	78	360	18:18	14	0.878	A BV	146231.	45.439	UG/L	2.00
26	75	363	18:27	14	0.885	A BV	113558.	49.107	UG/L	2.16
27	63	384	19:31	14	0.937	A BB	27679.	48.153	UG/L	2.12
28	173	413	21:00	14	1.007	A BB	51705.	38.218	UG/L	1.68
29	117	512	26:02	29	1.000	A BB	145814.	50.000	UG/L	2.20
30	43	425	21:36	29	0.830	A BB	39044.	67.023	UG/L	2.95
1	43	456	23:11	29	0.891	A BB	23990.	65.102	UG/L	2.87
2	164	461	23:26	29	0.900	A BB	64095.	44.833	UG/L	1.94
33	83	459	23:20	29	0.896	A BB	63993.	43.638	UG/L	1.92
34	92	489	24:51	29	0.955	A BV	105977.	47.803	UG/L	2.11
35	112	515	26:11	29	1.006	A BB	145418.	48.840	UG/L	2.15
36	106	566	28:46	29	1.105	A BB	66941.	48.549	UG/L	2.14
37	104	675	34:19	29	1.318	A BB	164972.	61.884	UG/L	2.73
38	106	685	34:49	29	1.338	A BB	99642.	62.561	UG/L	2.76
39	106	712	36:12	29	1.391	A BB	176135.	116.871	UG/L	5.15
40	65	259	13:10	1	1.276	A BB	89780.	56.857	UG/L	2.51
41	95	633	32:11	29	1.236	A BB	137183.	50.424	UG/L	2.22
42	98	485	24:39	1	2.389	A BB	178098.	54.858	UG/L	2.42

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:10	1.01	10.000	0.10	50.00	50.00	1.000	1.008	1.00
2	1:59	1.10	10.000	0.02	54.44	50.00	1.328	1.219	1.09
3	3:00	1.05	10.000	0.03	52.94	50.00	1.773	1.675	1.06
4	3:49	1.03	10.000	0.04	48.99	50.00	1.230	1.255	0.98
5	4:50	1.02	10.800	0.05	52.33	50.00	0.672	8.642	1.05
6	7:01	1.01	5.000	0.14	46.14	50.00	1.374	1.489	0.92
7	7:37	1.01	10.000	0.07	80.05	50.00	0.286	0.179	1.60
8	8:35	1.02	5.000	0.17	54.58	50.00	3.829	3.508	1.09
9	9:46	1.02	5.000	0.19	48.59	50.00	1.245	1.281	0.97
10	11:05	1.01	5.000	0.22	49.33	50.00	2.250	2.281	0.99
11	11:48	1.01	5.000	0.23	47.01	50.00	1.287	1.369	0.94
12	12:18	1.01	5.000	0.24	49.95	50.00	3.301	3.304	1.00
1	13:04	1.02	5.000	0.26	53.74	50.00	2.193	2.041	1.07
4	20:41	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	13:01	1.01	10.000	0.06	68.53	50.00	0.027	0.019	1.37
16	14:26	1.01	5.000	0.14	51.54	50.00	0.621	0.602	1.03
'	14:51	1.01	5.000	0.14	51.28	50.00	0.619	0.604	1.03
J	14:57	1.01	10.000	0.07	76.30	50.00	0.536	0.351	1.53
19	15:15	1.01	5.000	0.15	47.15	50.00	0.699	0.741	0.94
20	16:43	1.01	5.000	0.16	46.55	50.00	0.322	0.346	0.93
21	16:59	1.01	5.000	0.16	49.76	50.00	0.215	0.216	1.00
22	17:32	1.01	5.000	0.17	47.15	50.00	0.419	0.444	0.94
23	18:06	1.01	5.000	0.18	45.05	50.00	0.574	0.637	0.90
24	10:12	1.01	5.000	0.18	48.86	50.00	0.352	0.361	0.98
25	10:06	1.01	5.000	0.18	45.44	50.00	0.872	0.959	0.91
26	10:15	1.01	5.000	0.19	49.11	50.00	0.677	0.689	0.98
27	19:22	1.01	10.000	0.09	40.15	50.00	0.165	0.171	0.96
28	20:50	1.01	5.000	0.20	30.22	50.00	0.300	0.403	0.76
29	25:49	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:27	1.01	10.000	0.00	67.03	50.00	0.260	0.200	1.34
31	23:02	1.01	10.000	0.09	65.10	50.00	0.165	0.126	1.30
32	23:17	1.01	5.000	0.18	44.03	50.00	0.440	0.499	0.88
33	23:11	1.01	5.000	0.10	43.64	50.00	0.439	0.503	0.87
34	24:42	1.01	5.000	0.19	47.80	50.00	0.727	0.760	0.96
35	25:59	1.01	5.000	0.20	48.84	50.00	0.997	1.021	0.98
36	28:31	1.01	5.000	0.22	48.55	50.00	0.459	0.473	0.97
37	34:00	1.01	5.000	0.26	61.88	50.00	1.131	0.914	1.24
38	34:25	1.01	5.000	0.27	62.56	50.00	0.683	0.546	1.25
39	35:50	1.01	5.000	0.28	116.97	100.00	0.604	0.517	1.17
40	12:58	1.02	10.000	0.13	56.86	50.00	2.254	1.982	1.14
41	31:52	1.01	10.000	0.12	50.42	50.00	0.941	0.933	1.01
42	24:30	1.01	10.000	0.24	54.86	50.00	4.472	4.076	1.10

Gen test

CompuChem Laboratories, Inc.
GC/MS Analysis Log

4

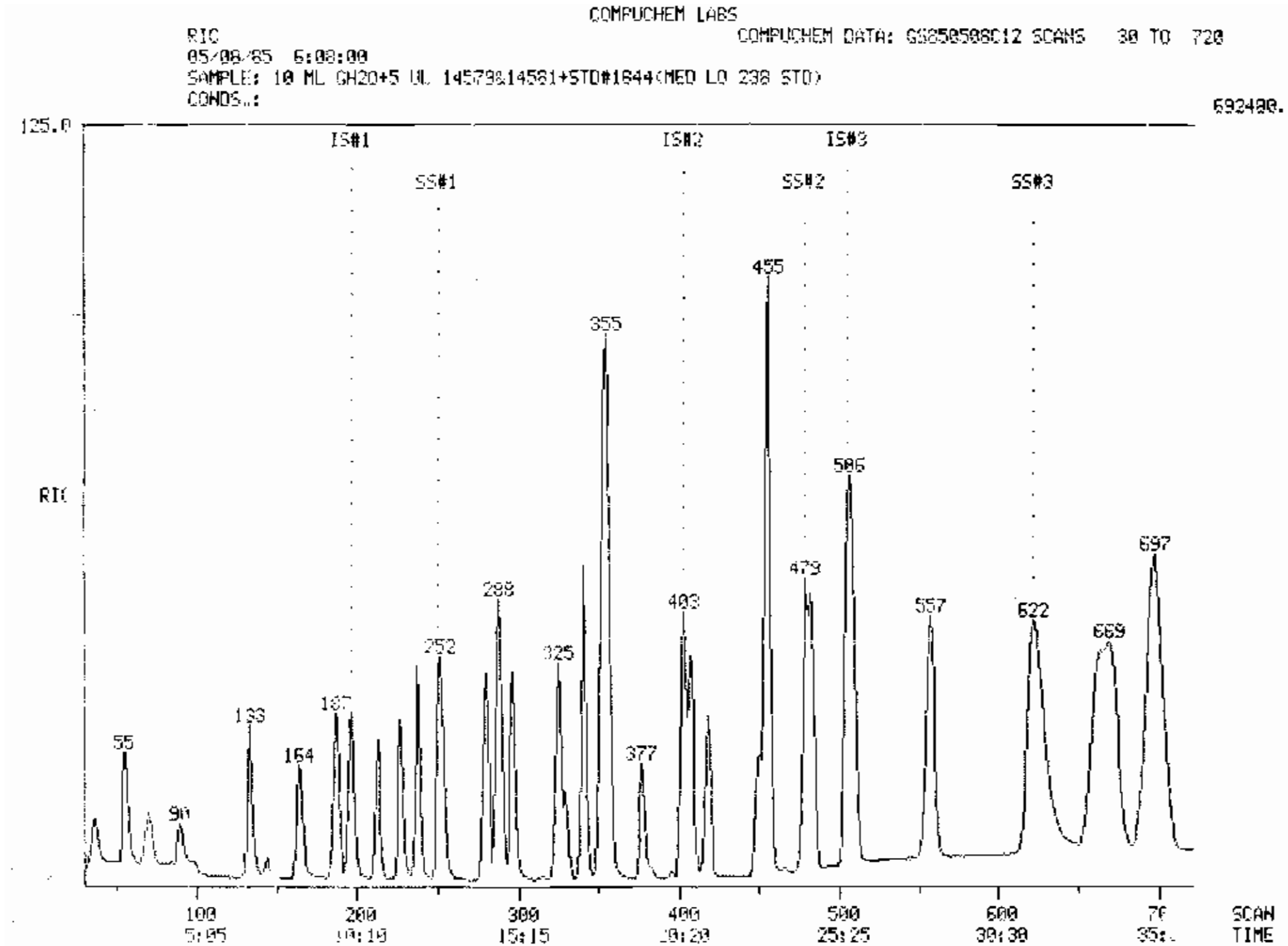
Initial Time of Tune 7:29
Time Tune Expires 19:29

Shift(s) (A) (B) (C)
Date 5/29/85
Analysis Type

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #s, Disposition, Etc.)
1		BF8505294 CH		5/28	6:59			2ul	812		115	14684 174,176
2		BF8505296 CH		1/1	7:18			2ul	812		115	14684
3		CBB505294 CH		1/1	7:47	deleted		5ul	812		115	14732, 14754 Blank
4		CB85052 9 AH OK		1/1	8:47			5ul	571		115	
5		CS850529 AH OK		1/1	9:48			5ul	571		115	STD 1833 (mid)
6		CNO 49944 AH		1/1	10:54	HB1	Gas Std	5ml	571		115	
7		CNO 51338 AH		1/1	11:49	BD076	4420	5ml	571		115	
8		CNO 4C594 5 AH		1/1	12:33	HB2	Gas Std	5ml	571		115	
9		CNO 51349 AH		1/1	13:15	BD077	4420	5ml	571		115	
10		CNO 51350 AH		1/1	13:59	BD077	4420	5ml	571		115	
11		CNO 51351 AH		1/1	14:41	BD079	4420	5ml	571		115	
12		CNO 51352 AH		1/1	15:45	SS	4419	2ml	571		115	SS of 51351
13		CNO 51348 BH		1/1	16:39	SS	4420	5ml	719		115	SS of 51351
14		CNO 51370 BH		1/1	17:39	HB#1	4420	5ml	719		115	
15	X	CNO 51470 BH		1/1	R25	AB300	4396	5ml	719	deleted	115	acquistion stopped, out of disc
16		CNO 51470 BH		1/1	19:15	AB300	4396	5ml	719		115	
17				1/1	:							
18				1/1	:							
19				1/1	:							
20				5/29/85								
21					:							
22				M. O	:							
23					:							
24				1/1	:							
25				1/1	:							
26				1/1	:							

Press H: ...ltiple Copies


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GS850508C12 SCANS 30 TO 720
05/08/85 6:08:00
SAMPLE: 10 ML GH20+5 UL 14579&14581+STD#1844(MED LO 230 STD)
CONDS.:
692480.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
55
90
133
164
187
252
288
325
355
377
403
455
479
506
557
622
669
697
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
SCAN
TIME

QUANTITP

DATA: GS850508C12.TI
05/08/85 6:08:00
IFLE 12 :L CH20-3 DL 14579&14581-STD#1844(MED LO 238 STD:
NDS.
SUBMITTED BY: 12 ANALYST: 812

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

Dalt 5/9/85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	197	10:01	1	1.000	A BB	104754.	50.000 UG/KG	2.24
2	50	36	1:50	1	0.183	A BB	112289.	50.000 UG/KG	2.24

PROCEDURE: RK DIAGNOSTIC REPORT 5/06/85 6:52:00
DATA FILE: GS850508C12
EFERENCE: E238
METHOD: E238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	0	42	41	1	37	E238S/E238U

42 COMPOUNDS PROCESSED, 41 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	FREQ	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E5	1	-198	197	197	.	1	977	.	128	197	.	1
2	E6	1	-404	403	403	.	1	994	.	114	403	.	1
3	E7	1	-506	505	505	.	1	971	.	117	505	.	1
4	E5	2	-37	36	36	.	1	970	.	50	36	.	1
5	E5	3	-56	55	55	.	1	944	.	94	55	.	1
6	E5	4	-71	70	70	.	1	971	.	62	70	.	1
7	E5	5	-91	90	90	.	1	955	.	64	90	.	1
8	E5	6	-134	133	133	.	1	979	.	84	133	.	1
9	E5	7	-146	145	144	-1	1	908	.	43	144	.	1
10	E5	8	-165	164	164	.	1	990	.	76	164	.	1
11	E5	9	-188	187	187	.	1	986	.	96	187	.	1
12	E5	10	-214	213	213	.	1	990	.	63	213	.	1
13	E5	11	-228	227	227	.	1	979	.	96	227	.	1
14	E5	12	-239	238	238	.	1	981	.	83	238	.	1
15	E5	13	-254	253	253	.	1	959	.	62	253	.	1
16	E6	2	-252	251	251	.	1	988	.	72	251	.	1
17	E6	3	-281	280	280	.	1	962	.	97	280	.	1
18	E6	4	-287	288	288	.	1	989	.	117	285	.	1
19	E6	5	-290	289	289	.	1	971	.	43	289	.	1
20	E6	6	-298	297	297	.	1	984	.	83	297	.	1
21	E6	7	-326	325	325	.	1	999	.	63	325	.	1
22	E6	8	-331	330	330	.	1	991	.	75	330	.	1
23	E6	9	-342	341	341	.	1	979	.	130	341	.	1
24	E6	10	-354	353	353	.	1	905	.	129	353	.	1
25	E6	11	-356	355	355	.	1	997	.	97	355	.	1
26	E6	12	-352	351	352	1	1	993	.	78	352	.	1
27	E6	13	-357	356	355	-1	1	971	.	75	356	1	1
28	E6	14	-378	377	377	.	1	992	.	63	377	.	1
29	E6	15	-408	407	407	.	1	956	.	173	407	.	1
30	E7	2	-419	418	418	.	1	955	.	43	418	.	1
31	E7	3	-450	449	449	.	1	972	.	43	450	1	1
32	E7	4	-456	455	455	.	1	938	.	164	455	.	1
33	E7	5	-455	454	.	.	.	.	.	83	454	.	1
34	E7	6	-483	482	483	1	1	986	.	92	483	.	1
35	E7	7	-508	507	508	1	1	988	.	112	508	.	1
36	E7	8	-558	558	557	-1	1	991	.	106	557	.	1
37	E7	9	-662	662	662	.	1	990	.	104	661	-1	1
38	E7	10	-670	670	670	.	1	991	.	106	670	.	1
39	E7	11	-670	670	670	.	1	991	.	106	670	.	1
40	E8	2	-252	251	251	.	1	938	.	65	251	.	1
1	E8	3	-622	622	622	.	1	990	.	95	622	.	1
42	E8	4	-478	478	477	1	1	992	.	92	477	.	1

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	55	2:48	1	0.279	A BV	150592.	50.000	UG/KG	2.24
4	62	70	3:33	1	0.355	A BV	129012.	50.000	UG/KG	2.24
5	64	90	4:34	1	0.457	A BB	64703.	50.000	UG/KG	2.24
6	84	133	6:46	1	0.675	A BV	135065.	50.000	UG/KG	2.24
7	43	144	7:19	1	0.731	A BV	50776.	50.000	UG/KG	2.24
8	76	164	8:20	1	0.832	A BB	343744.	50.000	UG/KG	2.24
9	96	187	9:30	1	0.949	A BV	115633.	50.000	UG/KG	2.24
10	63	213	10:50	1	1.081	A BB	207018.	50.000	UG/KG	2.24
11	96	227	11:32	1	1.152	A BV	121193.	50.000	UG/KG	2.24
12	83	238	12:06	1	1.208	A BV	273465.	50.000	UG/KG	2.24
13	62	253	12:52	1	1.284	A BV	185488.	50.000	UG/KG	2.24
14	114	403	20:29	14	1.000	A BV	387407.	50.000	UG/KG	2.24
15	72	251	12:46	14	0.623	A BB	22927.	50.000	UG/KG	2.24
16	97	280	14:14	14	0.695	A BB	230469.	50.000	UG/KG	2.24
17	117	288	14:38	14	0.715	A VV	248813.	50.000	UG/KG	2.24
18	43	289	14:41	14	0.717	A BV	190262.	50.000	UG/KG	2.24
19	83	297	15:06	14	0.737	A BV	249041.	50.000	UG/KG	2.24
20	63	325	16:31	14	0.806	A BB	134438.	50.000	UG/KG	2.24
21	75	330	16:46	14	0.819	A BV	92809.	50.000	UG/KG	2.24
22	130	341	17:20	14	0.846	A BV	198340.	50.000	UG/KG	2.24
23	129	353	17:57	14	0.876	A BV	230641.	50.000	UG/KG	2.24
24	97	355	18:03	14	0.881	A VV	127980.	50.000	UG/KG	2.24
25	78	352	17:54	14	0.873	A BB	275869.	50.000	UG/KG	2.24
26	75	356	18:06	14	0.883	A BV	264882.	50.000	UG/KG	2.24
27	63	377	19:10	14	0.935	A BB	89708.	50.000	UG/KG	2.24
28	173	407	20:41	14	1.010	A BB	269642.	50.000	UG/KG	2.24
29	117	505	25:40	29	1.000	A BB	360446.	50.000	UG/KG	2.24
30	43	418	21:15	29	0.928	A BB	205149.	50.000	UG/KG	2.24
31	43	450	22:52	29	0.891	A BB	163047.	50.000	UG/KG	2.24
32	164	455	23:08	29	0.901	A BB	222937.	50.000	UG/KG	2.24
33	83	454	23:05	29	0.899	A BB	240012.	50.000	UG/KG	2.24
34	92	483	24:33	29	0.956	A BB	211487.	50.000	UG/KG	2.24
35	112	508	25:49	29	1.006	A BV	333577.	50.000	UG/KG	2.24
36	104	557	28:19	29	1.103	A BB	180672.	50.000	UG/KG	2.24
37	104	661	33:36	29	1.309	A BB	453204.	50.000	UG/KG	2.24
38	105	670	34:03	29	1.327	A BB	258528.	50.000	UG/KG	2.24
39	104	697	35:26	29	1.380	A BB	463091.	179.126	UG/KG	8.04
40	65	251	12:46	1	1.274	A BB	176307.	50.000	UG/KG	2.24
41	95	622	31:37	29	1.232	A BB	289896.	50.000	UG/KG	2.24
42	98	479	24:21	1	2.431	A BV	349877.	50.000	UG/KG	2.24

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50	1.00	10.000	0.02	50.00	50.00	1.072	1.072	1.00
3	2:48	1.00	10.000	0.03	50.00	50.00	1.438	1.438	1.00
4	3:33	1.00	10.000	0.04	50.00	50.00	1.232	1.232	1.00
5	4:34	1.00	10.000	0.05	50.00	50.00	0.618	0.618	1.00
6	6:46	1.00	5.000	0.14	50.00	50.00	1.289	1.289	1.00
7	7:19	1.00	10.000	0.07	50.00	50.00	0.485	0.485	1.00
8	8:20	1.00	5.000	0.17	50.00	50.00	3.281	3.281	1.00
9	9:30	1.00	5.000	0.19	50.00	50.00	1.104	1.104	1.00
10	10:50	1.00	5.000	0.22	50.00	50.00	1.976	1.976	1.00
11	11:32	1.00	5.000	0.23	50.00	50.00	1.157	1.157	1.00
12	12:06	1.00	5.000	0.24	50.00	50.00	2.611	2.611	1.00
13	12:52	1.00	5.000	0.26	50.00	50.00	1.771	1.771	1.00
14	1:37	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	50.00	50.00	0.059	0.059	1.00
16	14:14	1.00	5.000	0.14	50.00	50.00	0.595	0.595	1.00
17	14:38	1.00	5.000	0.14	50.00	50.00	0.642	0.642	1.00
18	14:41	1.00	10.000	0.07	50.00	50.00	0.491	0.491	1.00
19	15:06	1.00	5.000	0.15	50.00	50.00	0.643	0.643	1.00
20	16:31	1.00	5.000	0.16	50.00	50.00	0.347	0.347	1.00
21	16:46	1.00	5.000	0.16	50.00	50.00	0.240	0.240	1.00
22	17:20	1.00	5.000	0.17	50.00	50.00	0.512	0.512	1.00
23	17:57	1.00	5.000	0.18	50.00	50.00	0.595	0.595	1.00
24	18:03	1.00	5.000	0.18	50.00	50.00	0.330	0.330	1.00
25	17:54	1.00	5.000	0.17	50.00	50.00	0.712	0.712	1.00
26	18:06	1.00	5.000	0.18	50.00	50.00	0.684	0.684	1.00
27	19:10	1.00	10.000	0.09	50.00	50.00	0.232	0.232	1.00
28	20:41	1.00	5.000	0.20	50.00	50.00	0.696	0.696	1.00
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.00	10.000	0.08	50.00	50.00	0.569	0.569	1.00
31	22:52	1.00	10.000	0.09	50.00	50.00	0.452	0.452	1.00
32	23:08	1.00	5.000	0.18	50.00	50.00	0.619	0.619	1.00
33	23:05	1.00	5.000	0.18	50.00	50.00	0.666	0.666	1.00
34	24:33	1.00	5.000	0.19	50.00	50.00	0.587	0.587	1.00
35	25:49	1.00	5.000	0.20	50.00	50.00	0.931	0.931	1.00
36	28:19	1.00	5.000	0.22	50.00	50.00	0.501	0.501	1.00
37	33:36	1.00	5.000	0.26	50.00	50.00	1.257	1.257	1.00
38	34:03	1.00	5.000	0.27	50.00	50.00	0.717	0.717	1.00
39	35:26	1.00	5.000	0.28	179.13	100.00	0.642	0.359	1.79
40	12:46	1.00	10.000	0.13	50.00	50.00	1.683	1.683	1.00
41	31:37	1.00	10.000	0.12	50.00	50.00	0.804	0.804	1.00
42	24:21	1.00	10.000	0.24	50.00	50.00	3.340	3.340	1.00

5/16

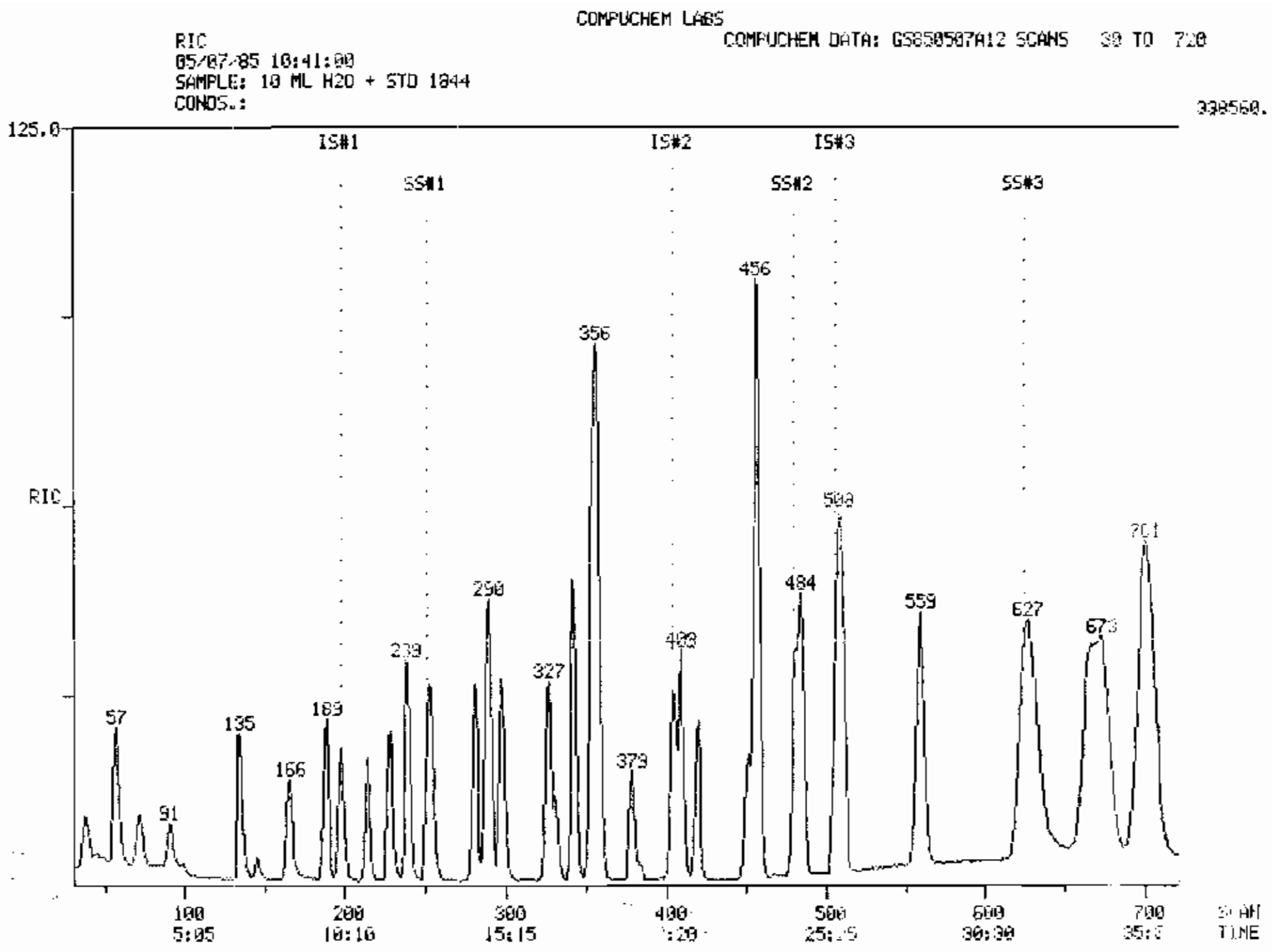
CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 21:51 5/16
Time Tune Expires 9:56 17:76
Shift(s) (A) (B) 1/ (C)
Date 5/7/85
Analysis Type 8238

Run Log

	RECEIVED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1		BFB505087C12		5/7/85	21:03			2 uL	719		128	14587-7008 174 too high.
2		BFB505087B12		1/1	21:45			2uL	719		128	14587-7008
3		GBB505087B12		1/1	22:08			10uL	719		128	036 t394
4		GS8505087B12		1/1	22:57			10uL	719		128	Std # 1844 (mc) 1,2 dichloroethane propanol
5		GT8505087B12		1/1	23:59			10uL	719		128	Std # 1844 (mc)
6		GBB505087C12		5/8/85	0:44			10uL	812		128	14582, 14584
7				1 returned	for 5 pt.							
8		BFB505087C12		5/8/85				2uL	812		128	
9		BFB505087C12		1/1	2:25			2uL	812		128	14587
10		BFB505087C12		1/1	2:53			2uL	812		128	14587
11		BFB505087C12		1/1	3:14			2uL	812		128	14587
12		BFB505087C12		1/1	4:06			2uL	812		128	14587
13		BFB505087C12		1/1	4:45			2uL	812		128	14587
14		BFB505087C12 OK		1/1	5:05			2uL	812		128	14587
15		GBB505087C12		1/1	5:27			10uL	812		128	14579, 14581
16		GSB505087C12 GS8505087C12		1/1	6:08			10uL	812		128	8 1844
17		GCB505087C12 OK		1/1	6:50			10uL	812		128	14579, 14581
18		GHC1498 27C12		1/1	7:45	507051K	GC-ENTEST	10uL	812		128	9
19		GH1498 28A12		1/1	8:36	507051H	Gm Nut	10uL	SM		127	
20		GH1498 24A12		1/1	9:47	SS	"	10uL	SM		127	10.1 spike
21		GH1498 25A12		1/1	10:34	SS		10uL	SM		127	10uL spike
22		GH1498 29A12		1/1	11:31	507051		10uL	SM		127	
23		GH1498 30A12		1/1	12:14	507051		10uL	SM		127	
24		GH1498 31A12		1/1	13:24	507051M		10uL	SM		127	
25		GH1498 59A12		1/1	14:39	507051O		10uL	SM		127	
26		GH1498 60A12		1/1	15:32	none given		10uL	SM		123	

Press h. Multiple Copies 5/8/85 M.M


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GS850507A12 SCANS 30 TO 720
05/07/85 10:41:00
SAMPLE: 10 ML H20 + STD 1044
CONDS.:
338560.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
RIC
57
91
135
166
189
239
290
327
356
379
409
456
484
500
559
627
673
701
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RH DIAGNOSTIC REPORT 5/07/85 11:19:41
DATA FILE: GS850507A12
REFERENCE: E238
METHOD: E238 INITIALIZATION OPTION: 2. PROCESSING OPTION: 3
REPORT: E238S

PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	LIST NAMES — STANDARD/UNKNOWN
3	3	1	67	42	34	1	121	E238S/E238U

42 COMPOUNDS PROCESSED, 34 FOUND

COMPOUND		SEARCH					SAT	GRAD			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E5	1	-193	198	198	.	1	963	.	128	198	.	1
2	E5	1	-398	404	404	.	1	993	.	114	404	.	1
3	E7	1	-499	506	506	.	1	976	.	117	506	.	1
4	E5	2	-37	39	38	-1	1	962	.	50	37	-1	1
5	E5	3	-56	59	57	-2	1	939	.	94	57	.	1
6	E5	4	-72	75	.	.	.	.	.	62	72	.	1
7	E5	5	-90	93	92	-1	1	950	.	64	91	-1	1
8	E5	6	-131	135	134	-1	1	967	.	84	134	.	1
9	E5	7	-142	146	.	.	.	.	.	43	146	.	1
10	E5	8	-160	164	166	2	1	985	.	76	166	.	1
11	E5	9	-183	187	189	2	1	984	.	96	189	.	1
12	E5	10	-209	214	215	1	1	993	.	63	215	.	1
13	E5	11	-223	228	229	1	1	977	.	96	228	-1	1
14	E5	12	-234	239	239	.	1	941	.	83	239	.	1
15	E5	13	-248	253	254	1	1	951	.	62	254	.	1
	E6	2	-246	251	252	1	1	976	.	72	253	1	1
.	E6	3	-275	281	281	.	1	958	.	97	281	.	1
18	E6	4	-283	289	289	.	1	980	.	117	289	.	1
19	E6	5	-284	290	.	.	.	.	.	43	291	.	1
20	E6	6	-292	298	298	.	1	973	.	83	298	.	1
21	E6	7	-320	326	327	1	1	979	.	63	327	.	1
22	E6	8	-325	331	331	.	1	991	.	75	331	.	1
23	E6	9	-336	342	342	.	1	972	.	130	342	.	1
24	E6	10	-348	355	.	.	.	.	.	129	355	.	1
25	E6	11	-350	357	357	.	1	996	.	97	357	.	1
26	E6	12	-346	353	353	.	1	989	.	78	353	.	1
27	E6	13	-351	358	357	-1	1	973	.	75	357	.	1
28	E6	14	-372	379	379	.	1	987	.	63	379	.	1
29	E6	15	-403	410	409	-1	1	957	.	173	409	.	1
30	E7	2	-413	420	420	.	1	904	.	43	420	.	1
31	E7	3	-444	452	451	-1	1	923	.	43	451	.	1
32	E7	4	-450	458	457	-1	1	942	.	164	457	.	1
33	E7	5	-449	457	.	.	.	.	.	83	455	.	1
34	E7	6	-477	485	484	-1	1	984	.	92	484	.	1
35	E7	7	-501	510	509	-1	1	985	.	112	509	.	1
36	E7	8	-549	558	559	1	1	987	.	106	559	.	1
37	E7	9	-649	660	.	.	.	.	.	104	.	.	.
38	E7	10	-657	668	.	.	.	.	.	106	.	.	.
39	E7	11	-682	693	.	.	.	.	.	106	.	.	.
40	E8	2	-246	251	252	1	1	913	.	65	252	.	1
41	E8	3	-611	621	625	4	1	983	.	95	625	.	1
	E8	4	-473	481	480	-1	1	970	.	98	480	.	1

STATION REPORT FILE: GSBS0507A12

DATA: GSBS0507A12.TI
05/07/85 10:41:09
SAMPLE: 10 ML H2O + STD 1844
[illegible]
SUBMITTED BY: 12 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
[illegible]

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	213 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* DB CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENIENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENIENE
42	# DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	198	10:04	1	1.000	A BB	41327.	50.000 UG/KG	2.18
[illegible]	50	37	1:53	1	0.187	A BB	60420.	50.000 UG/KG	2.18

NO	M.E	SIAN	TIME	FFF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	57	2:54	1	0.288	A BB	84274.	50.000	UG/KG	2.18
[illegible]										
5	54	91	4:38	1	0.460	A BB	33601.	50.000	UG/KG	2.18
6	34	134	6:49	1	0.677	A BB	69836.	50.000	UG/KG	2.18
7	43	146	7:25	1	0.737	A BV	28922.	50.000	UG/KG	2.18
8	[illegible]									
9	96	189	9:36	1	0.955	A BB	57576.	50.000	UG/KG	2.18
10	62	215	10:56	1	1.086	A BB	98301.	50.000	UG/KG	2.18
11	96	228	11:35	1	1.152	A BB	60741.	50.000	UG/KG	2.18
12	83	239	12:09	1	1.207	A BB	152380.	50.000	UG/KG	2.18
13	62	254	12:55	1	1.283	A BB	90522.	50.000	UG/KG	2.18
14	114	404	20:32	14	1.000	A BB	149391.	50.000	UG/KG	2.18
15	72	253	12:52	14	0.626	A BB	11613.	50.000	UG/KG	2.18
16	97	281	14:17	14	0.696	A BB	113120.	50.000	UG/KG	2.18
17	117	289	14:41	14	0.715	A VB	124783.	50.000	UG/KG	2.18
18	43	291	14:48	14	0.720	A BB	109457.	50.000	UG/KG	2.18
19	83	298	15:09	14	0.738	A BB	121466.	50.000	UG/KG	2.18
20	62	327	16:37	14	0.809	A BB	59429.	50.000	UG/KG	2.18
21	78	331	16:50	14	0.819	A BB	44682.	50.000	UG/KG	2.18
22	130	342	17:23	14	0.847	A BB	101215.	50.000	UG/KG	2.18
23	129	355	18:03	14	0.879	A BB	117706.	50.000	UG/KG	2.18
24	97	357	18:09	14	0.884	A BB	63825.	50.000	UG/KG	2.18
25	78	353	17:57	14	0.874	A BV	134062.	50.000	UG/KG	2.18
26	75	357	18:09	14	0.884	A BV	128039.	50.000	UG/KG	2.18
27	63	379	19:16	14	0.938	A BB	41154.	50.000	UG/KG	2.18
28	173	409	20:47	14	1.012	A BB	129682.	50.000	UG/KG	2.18
29	117	506	25:43	29	1.000	A BB	145326.	50.000	UG/KG	2.18
30	43	420	21:21	29	0.830	A BB	109570.	50.000	UG/KG	2.18
	43	451	22:56	29	0.891	A BB	88926.	50.000	UG/KG	2.18
32	164	457	23:14	29	0.903	A BB	110925.	50.000	UG/KG	2.18
33	83	455	23:08	29	0.899	A BV	119744.	50.000	UG/KG	2.18
34	92	484	24:36	29	0.957	A BB	108604.	50.000	UG/KG	2.18
35	112	509	25:52	29	1.006	A BB	185375.	50.000	UG/KG	2.18
36	106	559	28:25	29	1.105	A BB	95510.	50.000	UG/KG	2.18
37	104	564	33:45	29	1.312	A BB	75278.	50.000	UG/KG	2.18
38	106	674	34:16	29	1.332	A BB	124433.	196.688	UG/KG	8.56
39	106	701	35:38	29	1.385	A BB	240195.	100.000	UG/KG	4.35
40	65	252	12:49	1	1.273	A BB	70956.	50.000	UG/KG	2.18
41	95	435	31:46	29	1.205	A BB	128434.	50.000	UG/KG	2.18
42	98	480	24:24	1	2.424	A BB	144781.	50.000	UG/KG	2.18

NO	RBT(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.RAC	R.RAC(L)	RATIO
1	10:01	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50	1.03	10.000	0.02	50.00	50.00	1.462	1.462	1.00
3	2:48	1.04	10.000	0.03	50.00	50.00	2.039	2.039	1.00
4	3:33	1.03	10.000	0.04	50.00	50.00	1.512	1.512	1.00
5	4:34	1.01	10.000	0.05	50.00	50.00	0.813	0.813	1.00
6	5:46	1.01	5.000	0.14	50.00	50.00	1.690	1.690	1.00
7	7:19	1.01	10.000	0.07	50.00	50.00	0.700	0.700	1.00
8	8:20	1.01	5.000	0.17	50.00	50.00	3.806	3.806	1.00
9	9:30	1.01	5.000	0.19	50.00	50.00	1.393	1.393	1.00
10	10:50	1.01	5.000	0.22	50.00	50.00	2.379	2.379	1.00
11	11:32	1.00	5.000	0.23	50.00	50.00	1.470	1.470	1.00
12	12:06	1.00	5.000	0.24	50.00	50.00	3.687	3.687	1.00
	12:52	1.00	5.000	0.26	50.00	50.00	2.190	2.190	1.00
14	20:29	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RST(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:46	1.01	10.000	0.06	50.00	50.00	0.078	0.078	1.00
[illegible]									
7	14:38	1.00	5.000	0.14	50.00	50.00	0.835	0.835	1.00
18	14:41	1.01	10.000	0.07	50.00	50.00	0.733	0.733	1.00
19	15:06	1.00	5.000	0.15	50.00	50.00	0.813	0.813	1.00
[illegible]									
21	16:46	1.00	5.000	0.16	50.00	50.00	0.299	0.299	1.00
22	17:20	1.00	5.000	0.17	50.00	50.00	0.678	0.678	1.00
23	17:57	1.01	5.000	0.18	50.00	50.00	0.788	0.788	1.00
24	18:33	1.01	5.000	0.18	50.00	50.00	0.427	0.427	1.00
25	17:54	1.00	5.000	0.17	50.00	50.00	0.897	0.897	1.00
26	18:06	1.00	5.000	0.18	50.00	50.00	0.857	0.857	1.00
27	19:10	1.01	10.000	0.09	50.00	50.00	0.275	0.275	1.00
28	20:41	1.00	5.000	0.20	50.00	50.00	0.868	0.868	1.00
29	23:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.00	10.000	0.08	50.00	50.00	0.754	0.754	1.00
31	22:52	1.00	10.000	0.09	50.00	50.00	0.612	0.612	1.00
32	23:08	1.00	5.000	0.18	50.00	50.00	0.763	0.763	1.00
33	23:05	1.00	5.000	0.18	50.00	50.00	0.824	0.824	1.00
34	24:33	1.00	5.000	0.19	50.00	50.00	0.747	0.747	1.00
35	25:49	1.00	5.000	0.20	50.00	50.00	1.276	1.276	1.00
36	29:19	1.00	5.000	0.22	50.00	50.00	0.657	0.657	1.00
37	33:36	1.00	5.000	0.26	50.00	50.00	0.518	0.518	1.00
38	34:16	1.00	5.000	0.27	196.69	50.00	0.856	0.218	3.93
39	35:26	1.01	5.000	0.28	100.00	100.00	0.826	0.826	1.00
40	12:46	1.00	10.000	0.13	50.00	50.00	1.717	1.717	1.00
41	31:37	1.00	10.000	0.12	50.00	50.00	0.884	0.884	1.00
42	24:21	1.00	10.000	0.24	50.00	50.00	3.503	3.503	1.00

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Run Log

2

ENTERED 5/8/85

Initial Time of Tune 9:03
Time Tune Expires 21:02

Shift(s) (A) ___ (B) X (C) ___
Date 5/6/85
Analysis Type 8258

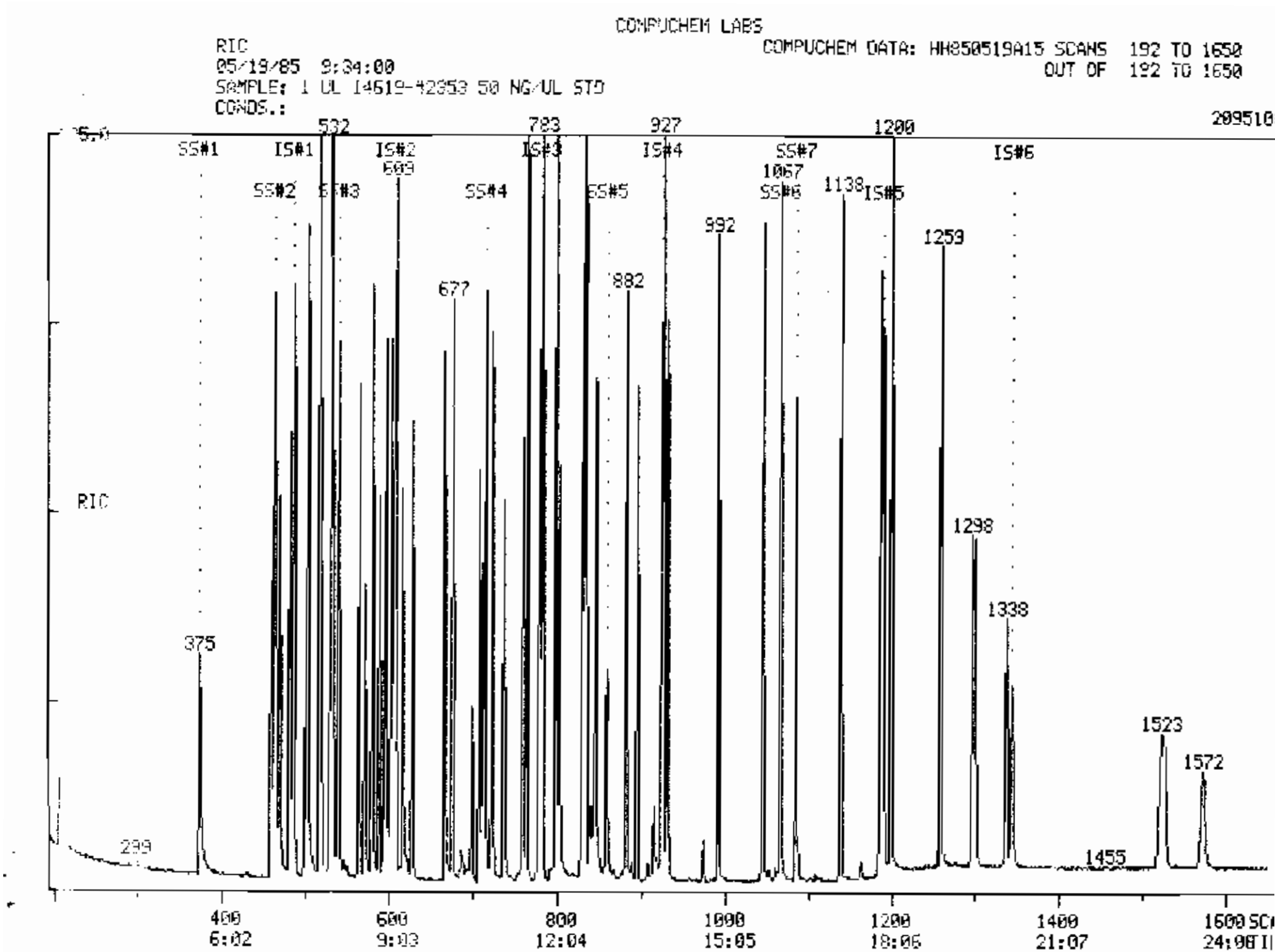
	REJECTED	File Name	ACCEPTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1		BF850506B12		/ /	23:08			2ml	719		128	64541-7008 high endhan
2		BF850506B12		/ /	23:41			2ml	719		128	high std / low
3				/ /	:		MTuned					
4		BF850507C12		/ /	:			2ml	817		128	ran up more on high end
5				/ /	:	Sensitivity	Problem	observed				
6				/ /	:	observed peaks	on scope	increasing	& decreasing			
7				/ /	:	in Sensitivity		without any	adjustments			
8				/ /	:	Primarily	when	extractor	Number is ~~work~~ touched OK			
9		BF850507C12		5/7/85	08:32							
10		BF850507C12		/ /	9:02			2ml	817		128	145541(7008)
11		GB850507A12		/ /	9:40			10ml	633		128	
12		GS250507B12		/ /	10:41			10ml	577		127	STD 17-14
13		GH0458328A12		/ /	11:60	BLK1	4008	10ml	5m		127	
14		GH0497598A12		/ /	12:51	DB 827	4008	10ml	577		128	
15		GH0497598A12		/ /	13:44	DB827	4008	10ml	5m		127	
16		GH049800A12		/ /	14:33	DB829	4008	10ml	633		128	
17	X	GH0497598A12		/ /	15:57	SS	4008	10ml	5m		127	10ml spike added
18	X	GH0499 91B12		/ /	16:04	SS	4008	10ml	719		128	
19		GH0499 11B12		/ /	17:16	BLK#1	GEN.TEST	10ml	719		128	
20		GH0498 18B12		/ /	R32	507 CSL	GEN TEST	10ml	719		128	
21		GC850507B12		/ /	19:32	BLANK		10ml	719		128	
22		GH0499 12B12		/ /	20:25	BLK#1	GEN TEST	10ml	719		128	
23				/ /	:							
24				/ /	:							
25				/ /	:		5/7/85					
26				/ /	:			MS				

Press Ha ultiple Copies

Received 5/9

EPA CASE# Gun Dest COMPUCHEM CASE SUMMARY REFERENCE GUIDE REVIEWER

fraction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
	DH8505I9A1S	HG8505I9A1S	48959	50705D					
	"	"	48960	50705N					
	DH8505I8A1S	HH8505I8A1S	49919	Blk					
			49821	SS					
	DH8505I21B22	HG8505I21B22	49822	SS					
	DH8505I24A22	HG8505I24B22	57045	Blk					


COMPUCHEM LABS
RIC
05/19/85 9:34:00
SAMPLE: 1 UL 14619-42853 50 NG/UL STD
CONDS.:
COMPUCHEM DATA: HH850519A15 SCANS 192 TO 1650
OUT OF 192 TO 1650
209510
SS#1
IS#1
SS#2
IS#2
SS#4
IS#3
SS#5
IS#4
SS#7
SS#8
IS#5
IS#6
532
609
783
927
1200
1067
1138
992
1259
882
677
1298
1338
375
1523
1572
299
1455
RIC
400
6:02
600
9:03
800
12:04
1000
15:05
1200
18:06
1400
21:07
1600 SC
24:08

PROCEDURE: RK
DATA FILE: HH850519A15
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 3 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES - STANDARD/UNKNOWN
4	4	1	101	53	46	16	94	SEMI1S1/SEMI1U1
4	4	1	142	29	27	48	191	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 72 FOUND

COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	BAT FIT	BAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	G1	1	-494	485	486	1	1	964	.	152	486	.	1
2	G2	1	-614	607	607	.	1	990	.	136	607	.	1
3	G3	1	-786	781	780	-1	1	987	.	164	780	.	1
4	G7	2	-386	376	375	-1	1	907	.	112	375	.	1
5	G1	2	-231	222	.	.	.	.	.	42	222	.	2
6	G1	3	-472	464	.	.	.	.	.	94	464	.	1
7	G1	4	-468	460	459	-1	1	874	.	93	459	.	2
8	01	5	-475	467	466	-1	1	963	.	93	466	.	1
9	G1	6	-479	471	.	.	.	.	.	128	471	.	1
10	G1	7	-491	483	482	-1	2	933	.	146	482	.	1
11	G1	8	-496	488	487	-1	2	935	.	146	487	.	1
12	G1	9	-511	503	503	.	1	934	.	108	503	.	1
13	G1	10	-512	504	505	1	1	936	.	146	504	-1	1
14	G1	11	-525	517	518	1	1	997	.	108	518	.	1
15	G1	12	-526	518	519	1	1	881	.	45	519	.	1
\	G1	13	-538	531	532	1	1	909	.	108	532	.	1
/	G1	14	-538	531	531	.	1	893	.	70	531	.	1
18	G1	15	-542	535	534	-1	1	937	.	117	534	.	1
19	G1	16	-549	542	542	.	1	921	.	77	542	.	1
20	G2	2	-572	565	566	1	1	875	-1	82	566	.	1
21	G2	3	-579	572	.	.	.	.	.	139	573	.	2
22	G2	4	-587	580	581	1	1	923	.	122	581	.	1
23	G2	5	-601	594	597	3	1	937	.	122	596	-1	1
24	02	6	-595	588	589	1	1	998	.	93	589	.	1
25	G2	7	-603	596	597	1	1	938	.	162	597	.	1
26	G2	8	-611	604	604	.	1	958	.	180	604	.	1
27	G2	9	-616	609	609	.	1	974	.	128	609	.	1
28	G2	10	-623	616	617	1	1	894	.	127	617	.	1
29	G2	11	-636	629	629	.	1	947	.	225	629	.	1
30	G2	12	-673	666	667	1	1	915	.	107	667	.	1
31	G2	13	-683	676	677	1	1	969	.	142	677	.	1
32	G3	2	-707	701	700	-1	1	931	.	237	700	.	1
33	G3	3	-714	708	708	.	2	966	.	196	708	.	1
34	G3	4	-718	712	712	.	2	968	.	196	712	.	1
35	G3	5	-730	724	723	-1	1	995	.	162	723	.	1
36	G3	6	-743	737	736	-1	1	850	.	65	736	.	1
37	G3	7	-766	760	760	.	1	989	.	163	759	-1	1
38	G3	8	-771	765	764	-1	1	969	.	152	764	.	1
39	G3	9	-743	737	.	.	.	.	.	138	736	.	1
40	G3	10	-789	783	783	.	1	980	.	153	783	.	1
41	G3	11	-796	790	.	.	.	.	.	184	.	.	.
	G3	12	-805	799	.	.	.	.	.	139	799	.	1
43	G3	13	-805	799	799	.	1	992	.	168	799	.	1
44	G3	14	-809	803	803	.	1	919	.	89	803	.	1
45	G3	15	-770	764	764	.	1	913	.	165	764	.	1
46	G3	16	-835	829	830	1	1	887	.	149	830	.	1
47	G3	17	-840	834	834	.	1	923	.	204	834	.	1
48	G3	18	-838	832	832	.	1	938	.	144	832	.	1

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	883	.	138	839	.
50	Q7	3	-471	463	463	.	1	908	.	99	463	.
51	Q7	4	-547	540	540	.	1	972	.	82	540	.
52	Q7	5	-722	716	715	-1	1	974	.	172	715	.
53	Q7	6	-864	859	859	.	1	941	.	141	859	.
54	Q4	1	-931	926	925	-1	1	980	.	188	925	.
55	Q5	1	-1194	1186	1188	2	1	981	.	240	1188	.
56	Q6	1	-1355	1346	1345	-1	1	997	.	264	1345	.
57	Q4	2	-849	845	.	.	.	.	.	198	844	.
58	Q4	3	-852	848	846	-2	1	900	.	169	846	.
59	Q4	4	-887	883	882	-1	1	940	.	248	882	.
60	Q4	5	-901	897	896	-1	1	947	.	284	896	.
61	Q4	6	-920	915	915	.	1	959	.	266	915	.
62	Q4	7	-933	928	927	-1	2	991	.	178	927	.
63	Q4	8	-937	932	931	-1	2	990	.	178	931	.
64	Q4	9	-997	991	992	1	1	956	.	149	992	.
65	Q4	10	-1051	1045	1045	.	1	989	.	202	1045	.
66	Q5	2	-1072	1065	.	.	.	.	.	184	1065	.
67	Q5	3	-1073	1066	1067	1	1	994	.	202	1067	.
68	Q5	4	-1143	1135	1138	3	1	970	.	149	1138	.
69	Q5	5	-1192	1184	1186	2	1	960	.	252	1186	.
70	Q5	6	-1193	1185	1187	2	2	981	.	228	1187	.
71	Q5	7	-1204	1196	1200	4	1	996	.	149	1200	.
72	Q5	8	-1197	1189	1187	-2	2	988	.	228	1187	.
73	Q6	2	-1265	1256	1259	3	1	995	.	149	1259	.
74	Q6	3	-1309	1299	1298	-1	1	978	.	252	1301	3
75	Q6	4	-1309	1299	1298	-1	1	975	.	252	1301	3
76	Q6	5	-1347	1337	1338	1	3	992	.	252	1338	.
77	Q6	6	-1536	1523	1522	-1	1	993	.	276	1522	.
78	Q6	7	-1540	1527	1525	-2	1	955	.	278	1525	.
79	Q6	8	-1589	1576	1572	-4	1	993	.	276	1572	.
80	Q7	7	-1091	1084	1085	1	1	983	.	244	1085	.
81	Q8	2	-1072	1065	1065	.	1	974	.	212	1065	.

INTERNAL STANDARD AREA MONITOR

NTITATION REPORT FILE: HH850519A15

DATA: HH850519A15.TI
05/19/85 9:34:00
SAMPLE: 1 UL 14619-#2353 50 NG/UL STD
CONDS.:
SUBMITTED BY: 15 ANALYST: 875

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	42D 1,2-DICHLOROBENZENE (Q1#1D) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
7	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

DAL 5/17/85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	486	7:20	1	1.000	A VV	2241500.	40.000 NG	0.98
2	42	222	3:21	1	0.457	A*VV	121536.	50.000 NG	1.22
3	94	464	7:00	1	0.955	A VV	6668870.	50.000 NG	1.22
4	93	459	6:55	1	0.944	A*VV	6056250.	50.000 NG	1.22
5	93	466	7:02	1	0.959	A VV	5738490.	50.000 NG	1.22
6	128	471	7:06	1	0.969	A BV	4327610.	50.000 NG	1.22
7	146	482	7:16	1	0.992	A BV	4376830.	50.000 NG	1.22
8	146	487	7:21	1	1.002	A VV	4495390.	50.000 NG	1.22
9	108	503	7:35	1	1.035	A BV	3368070.	50.000 NG	1.22
10	146	504	7:36	1	1.037	A VV	4292670.	50.000 NG	1.22
11	108	518	7:49	1	1.066	A VV	4160990.	50.000 NG	1.22
12	45	519	7:50	1	1.068	A VV	10596600.	50.000 NG	1.22
13	108	532	8:01	1	1.095	A VV	4631530.	50.000 NG	1.22
14	70	531	8:00	1	1.093	A BV	5407930.	50.000 NG	1.22
15	117	534	8:03	1	1.099	A V8	2183350.	50.000 NG	1.22
16	77	542	8:10	1	1.115	A VV	6468020.	50.000 NG	1.22
17	136	607	9:09	17	1.000	A VV	8466330.	40.000 NG	0.98
18	82	566	8:32	17	0.932	A VV	11927400.	50.000 NG	1.22
19	139	573	8:38	17	0.944	A*VV	2280990.	50.000 NG	1.22

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
	122	581	8:46	17	0.957	A VV	3840940.	50.000 NG	1.22
21	122	596	8:59	17	0.982	A VV	1750680.	50.000 NG	1.22
22	93	589	8:53	17	0.970	A VV	6184410.	50.000 NG	1.22
23	162	597	9:00	17	0.984	A BV	3160380.	50.000 NG	1.22
24	180	604	9:06	17	0.995	A BV	3422010.	50.000 NG	1.22
25	128	609	9:11	17	1.003	A VV	10535000.	50.000 NG	1.22
26	127	617	9:18	17	1.016	A VV	5158840.	50.000 NG	1.22
27	225	629	9:29	17	1.036	A BB	1881590.	50.000 NG	1.22
28	107	667	10:03	17	1.099	A BB	2995190.	50.000 NG	1.22
29	142	677	10:13	17	1.115	A VV	7109690.	50.000 NG	1.22
30	164	780	11:46	30	1.000	A BV	4548830.	40.000 NG	0.98
31	237	700	10:33	30	0.897	A BB	806272.	50.000 NG	1.22
32	196	708	10:41	30	0.908	A BV	1824350.	50.000 NG	1.22
33	196	712	10:44	30	0.913	A VV	2172540.	50.000 NG	1.22
34	162	723	10:54	30	0.927	A VV	6375450.	50.000 NG	1.22
35	65	736	11:06	30	0.944	A BV	4261060.	50.000 NG	1.22
36	163	759	11:27	30	0.973	A VV	7996950.	50.000 NG	1.22
37	152	764	11:31	30	0.979	A BV	9860950.	50.000 NG	1.22
38	138	736	11:06	30	0.944	A BV	3105590.	50.000 NG	1.22
39	153	783	11:48	30	1.004	A VV	6568030.	50.000 NG	1.22
40	184	798	12:02	30	1.023	A*BB	321920.	50.000 NG	1.22
41	139	799	12:03	30	1.024	A BV	5381640.	50.000 NG	1.22
42	168	799	12:03	30	1.024	A VV	8989400.	50.000 NG	1.22
43	89	803	12:07	30	1.029	A VV	2497470.	50.000 NG	1.22
44	165	764	11:31	30	0.979	A VB	1742550.	50.000 NG	1.22
45	149	830	12:31	30	1.064	A VV	8676860.	50.000 NG	1.22
	204	834	12:35	30	1.069	A BV	2978840.	50.000 NG	1.22
47	166	833	12:34	30	1.068	A BV	6958620.	50.000 NG	1.22
48	138	839	12:39	30	1.076	A VV	1509470.	50.000 NG	1.22
49	188	925	13:57	49	1.000	A VV	7723260.	40.000 NG	0.98
50	198	844	12:44	49	0.912	A BV	753216.	50.000 NG	1.22
51	169	846	12:45	49	0.915	A BV	5139550.	50.000 NG	1.22
52	248	882	13:18	49	0.954	A BV	1887190.	50.000 NG	1.22
53	284	896	13:31	49	0.969	A BV	2451130.	50.000 NG	1.22
54	266	915	13:48	49	0.989	A BV	618880.	50.001 NG	1.22
55	178	927	13:59	49	1.002	A VV	9199230.	50.000 NG	1.22
56	178	931	14:02	49	1.006	A VV	9431710.	50.000 NG	1.22
57	149	992	14:58	49	1.072	A BV	13924300.	50.000 NG	1.22
58	202	1045	15:45	49	1.130	A VV	10124000.	50.000 NG	1.22
59	240	1188	17:55	59	1.000	A BV	4365210.	40.000 NG	0.98
60	184	1065	16:04	59	0.896	A VV	134688.	50.000 NG	1.22
61	202	1067	16:05	59	0.898	A VV	9929400.	50.000 NG	1.22
62	149	1138	17:10	59	0.958	A VV	6052270.	50.000 NG	1.22
63	252	1186	17:53	59	0.998	A BV	1498650.	50.000 NG	1.22
64	228	1187	17:54	59	0.999	A VV	7879690.	50.000 NG	1.22
65	149	1200	18:06	59	1.010	A VV	9103110.	50.000 NG	1.22
66	228	1191	17:58	59	1.003	A VB	6491290.	50.000 NG	1.22
67	264	1345	20:17	67	1.000	A VV	3969430.	40.000 NG	0.98
68	149	1259	18:59	67	0.936	A VV	13905500.	50.000 NG	1.22
69	252	1301	19:37	67	0.967	A*VV	~~12030100~~ 6015050	100.000 NG	2.44
70	252	1301	19:37	67	0.967	A*VV	~~12030100~~ 6015050	100.000 NG	2.44
	252	1338	20:11	67	0.995	A VV	5332440.	50.000 NG	1.22
	276	1522	22:57	67	1.132	A VV	4965880.	50.000 NG	1.22
73	278	1525	23:00	67	1.134	A VV	3978840.	50.000 NG	1.22
74	276	1572	23:42	67	1.169	A VV	4056670.	50.000 NG	1.22
75	112	375	5:39	1	0.772	A BV	3729100.	50.001 NG	1.22

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
	99	463	6:59	1	0.953	A VV	5598030.	50.001	NG	1.22
77	82	540	8:09	17	0.890	A VV	6223290.	50.001	NG	1.22
78	172	715	10:47	30	0.917	A BV	7080280.	50.001	NG	1.22
79	141	859	12:57	30	1.101	A BV	576032.	50.001	NG	1.22
80	244	1085	16:22	59	0.913	A VV	6785910.	50.001	NG	1.22
81	212	1065	16:04	59	0.896	A BV	9303730.	50.000	NG	1.22

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:20	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:21	1.00	10.000	0.05	50.00	50.00	0.043	0.043	1.00
3	7:00	1.00	10.000	0.10	50.00	50.00	2.380	2.380	1.00
4	6:55	1.00	10.000	0.09	50.80	50.00	2.161	2.161	1.00
5	7:02	1.00	10.000	0.10	50.00	50.00	2.048	2.048	1.00
6	7:06	1.00	10.000	0.10	50.00	50.00	1.545	1.545	1.00
7	7:16	1.00	10.000	0.10	50.00	50.00	1.562	1.562	1.00
8	7:21	1.00	10.000	0.10	50.00	50.00	1.604	1.604	1.00
9	7:35	1.00	10.000	0.10	50.00	50.00	1.202	1.202	1.00
10	7:36	1.00	10.000	0.10	50.00	50.00	1.532	1.532	1.00
11	7:49	1.00	10.000	0.11	50.00	50.00	1.485	1.485	1.00
12	7:50	1.00	10.000	0.11	50.00	50.00	3.782	3.782	1.00
13	8:01	1.00	10.000	0.11	50.00	50.00	1.653	1.653	1.00
14	8:00	1.00	10.000	0.11	50.00	50.00	1.930	1.930	1.00
15	8:03	1.00	10.000	0.11	50.00	50.00	0.779	0.779	1.00
16	8:10	1.00	10.000	0.11	50.00	50.00	2.308	2.308	1.00
17	9:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
19	8:32	1.00	10.000	0.09	50.00	50.00	1.127	1.127	1.00
	8:38	1.00	10.000	0.09	50.00	50.00	0.216	0.216	1.00
20	8:46	1.00	10.000	0.10	50.00	50.00	0.363	0.363	1.00
21	8:59	1.00	50.000	0.02	50.00	50.00	0.165	0.165	1.00
22	8:53	1.00	10.000	0.10	50.00	50.00	0.584	0.584	1.00
23	9:00	1.00	10.000	0.10	50.00	50.00	0.299	0.299	1.00
24	9:06	1.00	10.000	0.10	50.00	50.00	0.323	0.323	1.00
25	9:11	1.00	10.000	0.10	50.00	50.00	0.995	0.995	1.00
26	9:18	1.00	10.000	0.10	50.00	50.00	0.487	0.487	1.00
27	9:29	1.00	10.000	0.10	50.00	50.00	0.178	0.178	1.00
28	10:03	1.00	10.000	0.11	50.00	50.00	0.283	0.283	1.00
29	10:13	1.00	10.000	0.11	50.00	50.00	0.672	0.672	1.00
30	11:46	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:33	1.00	10.000	0.09	50.00	50.00	0.142	0.142	1.00
32	10:41	1.00	10.000	0.09	50.00	50.00	0.321	0.321	1.00
33	10:44	1.00	100.000	0.01	50.00	50.00	0.382	0.382	1.00
34	10:54	1.00	10.000	0.09	50.00	50.00	1.121	1.121	1.00
35	11:06	1.00	50.000	0.02	50.00	50.00	0.749	0.749	1.00
36	11:27	1.00	10.000	0.10	50.00	50.00	1.406	1.406	1.00
37	11:31	1.00	10.000	0.10	50.00	50.00	1.734	1.734	1.00
38	11:06	1.00	50.000	0.02	50.00	50.00	0.546	0.546	1.00
39	11:48	1.00	10.000	0.10	50.00	50.00	1.155	1.155	1.00
40	12:02	1.00	50.000	0.02	50.00	50.00	0.057	0.057	1.00
41	12:03	1.00	50.000	0.02	50.00	50.00	0.946	0.946	1.00
42	12:03	1.00	10.000	0.10	50.00	50.00	1.581	1.581	1.00
43	12:07	1.00	10.000	0.10	50.00	50.00	0.439	0.439	1.00
	11:31	1.00	10.000	0.10	50.00	50.00	0.306	0.306	1.00
	12:31	1.00	10.000	0.11	50.00	50.00	1.526	1.526	1.00
46	12:35	1.00	10.000	0.11	50.00	50.00	0.524	0.524	1.00
47	12:34	1.00	10.000	0.11	50.00	50.00	1.224	1.224	1.00
48	12:39	1.00	50.000	0.02	50.00	50.00	0.265	0.265	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
49	13:57	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:44	1.00	50.000	0.02	50.00	50.00	0.078	0.078	1.00
51	12:45	1.00	10.000	0.09	50.00	50.00	0.532	0.532	1.00
52	13:18	1.00	10.000	0.10	50.00	50.00	0.195	0.195	1.00
53	13:31	1.00	10.000	0.10	50.00	50.00	0.254	0.254	1.00
54	13:48	1.00	50.000	0.02	50.00	50.00	0.064	0.064	1.00
55	13:59	1.00	10.000	0.10	50.00	50.00	0.953	0.953	1.00
56	14:02	1.00	10.000	0.10	50.00	50.00	0.977	0.977	1.00
57	14:58	1.00	10.000	0.11	50.00	50.00	1.442	1.442	1.00
58	15:45	1.00	10.000	0.11	50.00	50.00	1.049	1.049	1.00
59	17:55	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:04	1.00	50.000	0.02	50.00	50.00	0.025	0.025	1.00
61	16:05	1.00	10.000	0.09	50.00	50.00	1.820	1.820	1.00
62	17:10	1.00	10.000	0.10	50.00	50.00	1.109	1.109	1.00
63	17:53	1.00	20.000	0.05	50.00	50.00	0.275	0.275	1.00
64	17:54	1.00	10.000	0.10	50.00	50.00	1.444	1.444	1.00
65	18:06	1.00	10.000	0.10	50.00	50.00	1.668	1.668	1.00
66	17:58	1.00	10.000	0.10	50.00	50.00	1.190	1.190	1.00
67	20:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:59	1.00	10.000	0.09	50.00	50.00	2.803	2.803	1.00
69	19:37	1.00	10.000	0.10	100.00	100.00	1.212	1.212	1.00
70	19:37	1.00	10.000	0.10	100.00	100.00	1.212	1.212	1.00
71	20:11	1.00	10.000	0.10	50.00	50.00	1.075	1.075	1.00
72	22:57	1.00	10.000	0.11	50.00	50.00	1.001	1.001	1.00
73	23:00	1.00	10.000	0.11	50.00	50.00	0.802	0.802	1.00
74	23:42	1.00	10.000	0.12	50.00	50.00	0.818	0.818	1.00
5	5:39	1.00	0.742	1.04	50.00	50.00	1.331	1.331	1.00
76	6:59	1.00	0.948	1.00	50.00	50.00	1.998	1.998	1.00
77	8:09	1.00	0.875	1.02	50.00	50.00	0.588	0.588	1.00
78	10:47	1.00	0.906	1.01	50.00	50.00	1.245	1.245	1.00
79	12:57	1.00	1.118	0.98	50.00	50.00	0.101	0.101	1.00
80	16:22	1.00	0.907	1.01	50.00	50.00	1.244	1.244	1.00
81	16:04	1.00	0.906	0.99	50.00	50.00	1.705	1.705	1.00

2

Mead CompuChem GC/MS Analysis Log

Initial Time of Tune 7:14
Time Tune Expires 14:14

Shift(s) (A) ✓ (B) ____ (C) ____
Date 5/19/15
Analysis Type Sem 12

Run Log

Press Hard, Multiple Copies

	REJECTED	File Name	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #s, Disposition, Etc.)
1		DH88051S AIS	5/19/85	7:14			1.0ul	RTS		3017	14655-7080
2		HG 650519 AIS	"	7:44			"	"		"	14619-2353 (SV)
3		Column maint.; Liner & Septa New; Inj. Port Cleaned; GC Ramped									
4		HH 050519 AIS	"	9:34			"	"		"	14619-2353
5		SCF 80519 AIS	"	10:35			"	"		"	1424-392 Sensecheck
6		GJ 049824 AIS	"	11:08	SS 277/307	Cen Test	"	"		"	SS 271/307
7		G74 49822 AIS	"	12:00	SS 277/307	"	"	"		"	SJ 271/307
8		GH 049827 AIS	"	12:34	50705K	"	"	"		"	
9	(9)	GH 049818 AIS	"	[illegible]	50705L	"	"	"		"	
10	(10)	GH 049828 AIS	"	14:05	50705H	"	"	"		"	
11	(11)	GH 049829 AIS	"	15:57	50705I	"	"	"		"	
12	(12)	GH 049830 AIS	"	16:33	50705J	"	"	"		"	
13	(13)	GH 049831 AIS	"	17:34	50705M	"	"	"		"	
14	(14)	GH 049859 AIS	"	18:32	50705-O	"	"	"		"	
15	(15)	GH 049860 AIS	"	19:12	50705-N	"	"	"		"	
16			/ /	:							
17			/ /	:							
18			/ /	:							
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24			/ /	:							
25			/ /	:							
26			/ /	:							

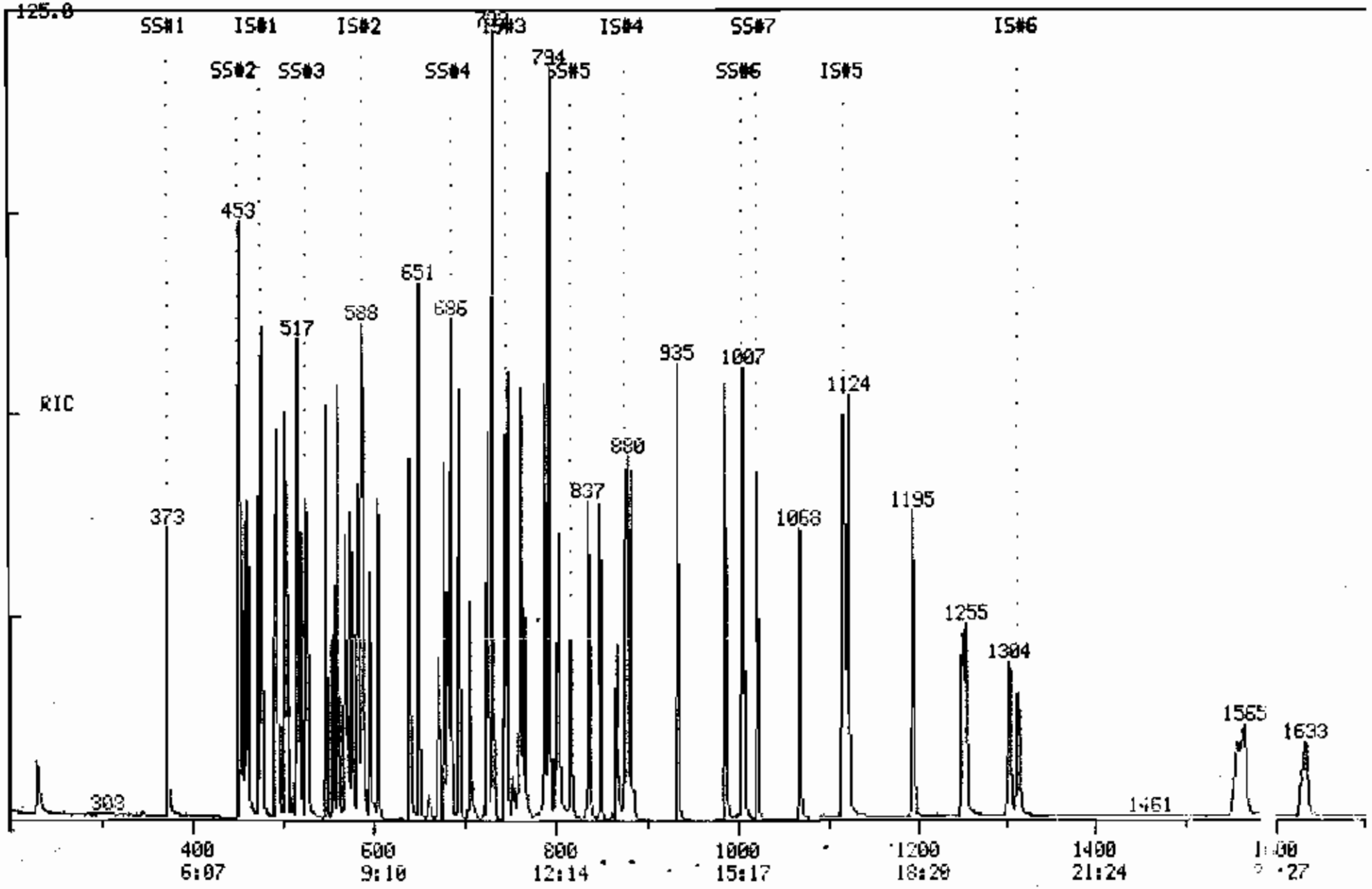
RT 5/19/85

Ou.. Copy

COMPUCHEM LABS

RIC
05/21/85 17:41:00
SAMPLE: 1UL 14619 (2353) 50 NG/UL
CONDS.:

COMPUCHEM DATA: HG850521B22 SCANS 200 TO 1700
OUT OF 200 TO 1900

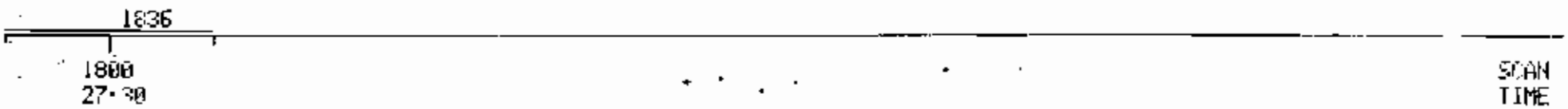


COMPUCHEM LABS

RIC
05/21/85 17:41:00
SAMPLE: 1UL 14619 (2353) 50 NG/UL
CONDS.:

COMPUCHEM DATA: HG850521B22 SCANS 1700 TO 1900
OUT OF 200 TO 1900

20418500.



PROCEDURE: RK DIAGNOSTIC REPORT 5/21/85 18:08:30
DATA FILE: HG850521822
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 3 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	59	53	37	8	69	SEMI1S1/SEMI1U1
3	3	3	227	28	24	64	227	SEMI1B2/SEMI1U2

81 COMPOUNDS PROCESSED, 61 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	Q1	1	-474	476	477	1	1	971	.	152	477	.	1
2	Q3	1	-744	746	746	.	1	997	.	164	746	.	1
3	Q2	1	-586	588	588	.	1	994	.	136	588	.	1
4	Q7	2	-371	373	373	.	1	908	.	112	373	.	1
5	Q1	2	-230	233	231	-2	1	915	.	42	231	.	1
6	Q1	3	-451	453	.	.	.	.	.	94	454	.	1
7	Q1	4	-450	452	.	.	.	.	.	93	453	.	1
8	Q1	5	-456	458	459	1	1	990	.	93	459	.	1
9	Q1	6	-460	462	.	.	.	.	.	128	462	.	1
10	Q1	7	-471	473	474	1	2	936	.	146	473	-1	1
11	Q1	8	-476	478	478	.	2	938	.	146	478	.	1
12	Q1	9	-489	491	492	1	1	935	.	108	492	.	1
13	Q1	10	-492	494	494	.	1	937	.	146	494	.	1
14	Q1	11	-501	503	504	1	1	1000	.	108	504	.	1
15	Q1	12	-503	505	506	1	1	918	.	45	506	.	1
16	Q1	13	-514	516	516	.	1	913	.	108	516	.	1
17	Q1	14	-515	517	.	.	.	.	.	70	517	.	1
18	Q1	15	-518	520	520	.	1	942	.	117	520	.	1
19	Q1	16	-526	528	529	1	1	924	.	77	529	.	1
20	Q2	2	-548	550	.	.	.	.	.	82	549	.	1
21	Q2	3	-555	557	.	.	.	.	.	139	556	.	1
22	Q2	4	-560	562	561	-1	1	922	.	122	561	.	1
23	Q2	5	-570	572	574	2	1	945	.	122	574	.	1
24	Q2	6	-568	570	570	.	1	985	.	93	570	.	1
25	Q2	7	-576	578	577	-1	1	937	.	162	577	.	1
26	Q2	8	-583	585	584	-1	1	951	.	180	584	.	1
27	Q2	9	-588	590	590	.	1	973	.	128	589	-1	1
28	Q2	10	-595	597	.	.	.	.	.	127	597	.	1
29	Q2	11	-605	607	.	.	.	.	.	225	606	.	1
30	Q2	12	-639	641	640	-1	1	915	.	107	640	.	1
31	Q2	13	-649	651	651	.	2	968	.	142	651	.	1
32	Q3	2	-670	672	.	.	.	.	.	237	671	.	1
33	Q3	3	-677	679	679	.	1	965	.	196	679	.	2
34	Q3	4	-677	679	679	.	1	949	.	196	679	.	2
35	Q3	5	-692	694	694	.	1	991	.	162	694	.	1
36	Q3	6	-705	707	.	.	.	.	.	65	707	.	1
37	Q3	7	-724	726	726	.	1	996	.	163	726	.	1
38	Q3	8	-730	732	732	.	1	968	.	152	732	.	1
39	Q3	9	-705	707	.	.	.	.	.	138	707	.	1
40	Q3	10	-747	749	749	.	1	981	.	153	749	.	1
41	Q3	11	-752	754	754	.	1	903	.	184	753	-1	1
42	Q3	12	-761	763	.	.	.	.	.	139	763	.	-
43	Q3	13	-761	763	763	.	1	985	.	168	763	.	1
44	Q3	14	-765	767	766	-1	1	917	.	89	766	.	2
45	Q3	15	-730	732	732	.	1	914	.	165	732	.	1
46	Q3	16	-787	789	.	.	.	.	.	149	789	.	1
47	Q3	17	-792	794	.	.	.	.	.	204	794	.	2

[illegible]	[illegible]	[illegible]	[illegible]	801	.	.	.	.	.	138	800	.	1
50	Q7	3	-450	452	.	.	.	.	.	99	453	.	1
51	Q7	4	-525	527	527	.	1	962	.	82	527	.	1
52	Q7	5	-684	686	686	.	1	974	.	172	686	.	1
53	Q7	6	-815	817	817	.	1	938	.	141	817	.	1
54	Q4	1	-875	876	877	1	1	993	.	188	877	.	1
55	Q5	1	-1116	1120	1118	-2	1	990	.	240	1118	.	1
56	Q6	1	-1307	1313	1314	1	3	997	.	264	1314	.	1
57	Q4	2	-801	800	.	.	.	.	.	198	803	.	1
58	Q4	3	-803	802	.	.	.	.	.	169	805	.	1
59	Q4	4	-835	834	837	3	1	926	.	248	837	.	1
60	Q4	5	-848	848	850	2	1	923	.	284	850	.	1
61	Q4	6	-864	864	867	3	1	958	.	266	867	.	1
62	Q4	7	-877	877	880	3	2	994	.	178	879	-1	1
63	Q4	8	-881	881	880	-1	2	994	.	178	879	-1	1
64	Q4	9	-933	934	935	1	1	966	.	149	935	.	1
65	Q4	10	-985	987	987	.	1	981	.	202	987	.	1
66	Q5	2	-1004	1007	.	.	.	.	.	184	1006	.	1
67	Q5	3	-1005	1008	1007	-1	1	982	.	202	1007	.	1
68	Q5	4	-1067	1071	1068	-3	1	966	.	149	1068	.	1
69	Q5	5	-1113	1118	1115	-3	1	974	.	252	1115	.	1
70	Q5	6	-1114	1119	1117	-2	2	984	.	228	1117	.	1
71	Q5	7	-1121	1126	1124	-2	1	983	.	149	1124	.	1
72	Q5	8	-1118	1123	1121	-2	2	984	.	228	1121	.	1
73	Q6	2	-1191	1197	1195	-2	1	986	.	149	1195	.	1
74	Q6	3	-1249	1256	1255	-1	2	979	.	252	1255	.	1
75	Q6	4	-1249	1256	1255	-1	2	975	.	252	1255	.	1
76	Q6	5	-1297	1305	1304	-1	1	975	.	252	1304	.	1
77	Q6	6	-1541	1554	1558	4	1	983	.	276	1558	.	1
78	Q6	7	-1548	1561	1565	4	1	965	.	278	1565	.	1
79	Q6	8	-1613	1627	.	.	.	.	.	276	.	.	.
80	Q7	7	-1020	1023	1022	-1	1	989	.	244	1022	.	1
81	Q8	2	-1004	1007	1006	-1	1	947	.	212	1006	.	1

QUANTITATION REPORT FILE: HGB50521B22

DATA: HGB50521B22.TI
05/21/B5 17:41:00
SAMPLE: 1UL 14619 (2353) 50 NG/UL
CONDS. :
SUBMITTED BY: 22 ANALYST: 756

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*** D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (O1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (O1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (O2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (O2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLORDANILINE (O2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*** D10-ACENAPHTHENE (IB#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
76	### D5-PHENOL (BB#2)
77	### D5-NITROBENZENE (BB#3)
78	### 2-FLUOROBIPHENYL (BB#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#6)
81	### D10 PYRENE

BNA 5/21/85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	477	7:17	1	1.000	A BV	1617980.	40.000 NG	0.95
2	42	231	3:32	1	0.484	A BV	1594090.	50.000 NG	1.19
3	94	454	6:56	1	0.952	A BV	3913850.	50.000 NG	1.19
4	93	453	6:55	1	0.950	A BV	3066490.	50.000 NG	1.19
5	93	459	7:01	1	0.962	A VV	3336060.	50.000 NG	1.19
6	128	462	7:04	1	0.969	A BV	2843130.	50.000 NG	1.19
7	146	473	7:14	1	0.992	A BV	3113530.	50.000 NG	1.19
8	146	478	7:18	1	1.002	A BB	3080190.	50.000 NG	1.19
9	108	492	7:31	1	1.031	A BV	1851740.	50.000 NG	1.19
10	146	494	7:33	1	1.036	A VV	2905950.	50.000 NG	1.19
11	108	504	7:42	1	1.057	A VV	2557430.	50.000 NG	1.19
12	45	506	7:44	1	1.061	A BV	4818620.	50.000 NG	1.19
13	108	516	7:53	1	1.082	A VV	2786490.	50.000 NG	1.19
14	70	517	7:54	1	1.084	A BV	2838810.	50.000 NG	1.19
15	117	520	7:57	1	1.090	A BB	1680760.	50.000 NG	1.19
16	77	529	8:05	1	1.109	A VV	3668520.	50.000 NG	1.19
17	136	588	8:59	17	1.000	A BV	5625050.	40.000 NG	0.95
18	82	549	8:23	17	0.934	A VV	7120250.	50.000 NG	1.19
19	139	556	8:30	17	0.946	A BV	1377850.	50.000 NG	1.19

NO	M/E	BCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	561	8:34	17	0.954	A VV	2413660.	50.000	NG	1.19
21	122	574	8:46	17	0.976	A VV	1711480.	50.000	NG	1.19
22	93	570	8:43	17	0.969	A VV	3308410.	50.000	NG	1.19
23	162	577	8:49	17	0.981	A BV	2172060.	50.000	NG	1.19
24	180	584	8:55	17	0.993	A BB	2426330.	50.000	NG	1.19
25	128	589	9:00	17	1.002	A BV	7613020.	50.000	NG	1.19
26	127	597	9:07	17	1.015	A VV	2815260.	50.000	NG	1.19
27	225	606	9:16	17	1.031	A BB	1413820.	50.000	NG	1.19
28	107	640	9:47	17	1.088	A BV	2900580.	50.000	NG	1.19
29	142	651	9:57	17	1.107	A VV	4852790.	50.000	NG	1.19
30	164	746	11:24	30	1.000	A BV	2987070.	40.000	NG	0.95
31	237	671	10:15	30	0.899	A BB	898048.	50.000	NG	1.19
32	196	679	10:23	30	0.910	A*BV	2900760.	100.000	NG	2.39
33	196	679	10:23	30	0.910	A*BV	2900760.	100.000	NG	2.39
34	162	694	10:36	30	0.930	A BV	4490430.	50.000	NG	1.19
35	65	707	10:48	30	0.948	A BV	1996330.	50.000	NG	1.19
36	163	726	11:06	30	0.973	A BV	5368670.	50.000	NG	1.19
37	152	732	11:11	30	0.981	A BV	6413660.	50.000	NG	1.19
38	138	707	10:48	30	0.948	A BV	1516090.	50.000	NG	1.19
39	153	749	11:27	30	1.004	A BB	4387320.	50.000	NG	1.19
40	184	753	11:30	30	1.009	A BV	256480.	50.000	NG	1.19
41	139	763	11:40	30	1.023	A VV	3714810.	50.000	NG	1.19
42	168	763	11:40	30	1.023	A BV	5958490.	50.000	NG	1.19
43	89	766	11:42	30	1.027	A*VV	1815710.	50.000	NG	1.19
44	165	732	11:11	30	0.981	A VV	1067960.	50.000	NG	1.19
45	149	789	12:03	30	1.058	A BV	5858270.	50.000	NG	1.19
46	204	794	12:08	30	1.064	A BV	2049950.	50.000	NG	1.19
47	166	793	12:07	30	1.063	A BV	4709530.	50.000	NG	1.19
48	138	800	12:14	30	1.072	A VV	819664.	50.000	NG	1.19
49	188	877	13:24	49	1.000	A BV	5065310.	40.000	NG	0.95
50	198	803	12:16	49	0.916	A BV	591648.	50.000	NG	1.19
51	169	805	12:18	49	0.918	A VV	2388790.	50.000	NG	1.19
52	248	837	12:47	49	0.954	A BV	1297110.	50.000	NG	1.19
53	284	850	12:59	49	0.969	A BB	1922110.	50.000	NG	1.19
54	266	867	13:15	49	0.989	A BV	880544.	50.000	NG	1.19
55	178	879	13:26	49	1.002	A BV	6673470.	50.000	NG	1.19
56	178	884	13:31	49	1.008	A VB	5402110.	50.000	NG	1.19
57	149	935	14:17	49	1.066	A VV	8627710.	50.000	NG	1.19
58	202	987	15:05	49	1.125	A VV	6541660.	50.000	NG	1.19
59	240	1118	17:05	59	1.000	A VV	3587800.	40.000	NG	0.95
60	184	1006	15:22	59	0.900	A BV	84640.	50.000	NG	1.19
61	202	1007	15:23	59	0.901	A VV	6552610.	50.000	NG	1.19
62	149	1068	16:19	59	0.955	A VV	3226430.	50.000	NG	1.19
63	252	1115	17:02	59	0.997	A VV	1331510.	50.000	NG	1.19
64	228	1117	17:04	59	0.999	A VV	5836010.	50.000	NG	1.19
65	149	1124	17:11	59	1.005	A VV	4210920.	50.001	NG	1.19
66	228	1121	17:08	59	1.003	A VV	5356670.	50.000	NG	1.19
67	264	1314	20:05	67	1.000	A BV	3700150.	40.000	NG	0.95
68	149	1195	18:16	67	0.909	A VV	7912110.	50.000	NG	1.19
69	252	1255	19:11	67	0.955	A VV	4789810.	100.000	NG	2.39
70	252	1255	19:11	67	0.955	A VV	4789810.	100.000	NG	2.39
71	252	1304	19:56	67	0.992	A VV	4990110.	50.000	NG	1.19
72	276	1558	23:49	67	1.186	A BV	5923940.	50.000	NG	1.19
73	278	1565	23:55	67	1.191	A BV	4591980.	50.000	NG	1.19
74	276	1633	24:57	67	1.243	A BB	4681890.	50.000	NG	1.19
75	112	373	5:42	1	0.782	A BV	2338620.	50.000	NG	1.19

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
76	99	453	6:55	1	0.950	A BV	3720380.	50.000 NG	1.19
77	82	527	8:03	17	0.896	A BV	3497110.	50.000 NG	1.19
78	172	686	10:29	30	0.920	A BV	4787770.	50.000 NG	1.19
79	141	817	12:29	30	1.095	A VV	424256.	50.000 NG	1.19
80	244	1022	15:37	59	0.914	A VV	4488760.	50.000 NG	1.19
81	212	1006	15:22	59	0.900	A VV	5168510.	50.000 NG	1.19

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:32	1.00	10.000	0.05	50.00	50.00	0.788	0.788	1.00
3	6:56	1.00	10.000	0.10	50.00	50.00	1.935	1.935	1.00
4	6:55	1.00	10.000	0.09	50.00	50.00	1.516	1.516	1.00
5	7:01	1.00	10.000	0.10	50.00	50.00	1.649	1.649	1.00
6	7:04	1.00	10.000	0.10	50.00	50.00	1.406	1.406	1.00
7	7:14	1.00	10.000	0.10	50.00	50.00	1.539	1.539	1.00
8	7:18	1.00	10.000	0.10	50.00	50.00	1.523	1.523	1.00
9	7:31	1.00	10.000	0.10	50.00	50.00	0.916	0.916	1.00
10	7:33	1.00	10.000	0.10	50.00	50.00	1.437	1.437	1.00
11	7:42	1.00	10.000	0.11	50.00	50.00	1.265	1.265	1.00
12	7:44	1.00	10.000	0.11	50.00	50.00	2.383	2.383	1.00
13	7:53	1.00	10.000	0.11	50.00	50.00	1.378	1.378	1.00
14	7:54	1.00	10.000	0.11	50.00	50.00	1.404	1.404	1.00
15	7:57	1.00	10.000	0.11	50.00	50.00	0.831	0.831	1.00
16	8:05	1.00	10.000	0.11	50.00	50.00	1.814	1.814	1.00
17	8:59	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:23	1.00	10.000	0.09	50.00	50.00	1.013	1.013	1.00
19	8:30	1.00	10.000	0.09	50.00	50.00	0.196	0.196	1.00
20	8:34	1.00	10.000	0.10	50.00	50.00	0.343	0.343	1.00
21	8:46	1.00	50.000	0.02	50.00	50.00	0.243	0.243	1.00
22	8:43	1.00	10.000	0.10	50.00	50.00	0.471	0.471	1.00
23	8:49	1.00	10.000	0.10	50.00	50.00	0.309	0.309	1.00
24	8:55	1.00	10.000	0.10	50.00	50.00	0.345	0.345	1.00
25	9:00	1.00	10.000	0.10	50.00	50.00	1.083	1.083	1.00
26	9:07	1.00	10.000	0.10	50.00	50.00	0.400	0.400	1.00
27	9:16	1.00	10.000	0.10	50.00	50.00	0.201	0.201	1.00
28	9:47	1.00	10.000	0.11	50.00	50.00	0.413	0.413	1.00
29	9:57	1.00	10.000	0.11	50.00	50.00	0.690	0.690	1.00
30	11:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:15	1.00	10.000	0.09	50.00	50.00	0.241	0.241	1.00
32	10:23	1.00	10.000	0.09	100.00	100.00	0.388	0.388	1.00
33	10:23	1.00	50.000	0.02	100.00	100.00	0.388	0.388	1.00
34	10:36	1.00	10.000	0.09	50.00	50.00	1.203	1.203	1.00
35	10:48	1.00	50.000	0.02	50.00	50.00	0.535	0.535	1.00
36	11:06	1.00	10.000	0.10	50.00	50.00	1.438	1.438	1.00
37	11:11	1.00	10.000	0.10	50.00	50.00	1.718	1.718	1.00
38	10:48	1.00	50.000	0.02	50.00	50.00	0.406	0.406	1.00
39	11:27	1.00	10.000	0.10	50.00	50.00	1.175	1.175	1.00
40	11:30	1.00	50.000	0.02	50.00	50.00	0.069	0.069	1.00
41	11:40	1.00	50.000	0.02	50.00	50.00	0.995	0.995	1.00
42	11:40	1.00	10.000	0.10	50.00	50.00	1.596	1.596	1.00
43	11:42	1.00	10.000	0.10	50.00	50.00	0.486	0.486	1.00
44	11:11	1.00	10.000	0.10	50.00	50.00	0.286	0.286	1.00
45	12:03	1.00	10.000	0.11	50.00	50.00	1.569	1.569	1.00
46	12:08	1.00	10.000	0.11	50.00	50.00	0.549	0.549	1.00
47	12:07	1.00	10.000	0.11	50.00	50.00	1.261	1.261	1.00
48	12:14	1.00	50.000	0.02	50.00	50.00	0.220	0.220	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:16	1.00	50.000	0.02	50.00	50.00	0.093	0.093	1.00
51	12:18	1.00	10.000	0.09	50.00	50.00	0.377	0.377	1.00
52	12:47	1.00	10.000	0.10	50.00	50.00	0.205	0.205	1.00
53	12:59	1.00	10.000	0.10	50.00	50.00	0.288	0.288	1.00
54	13:15	1.00	50.000	0.02	50.00	50.00	0.139	0.139	1.00
55	13:26	1.00	10.000	0.10	50.00	50.00	1.054	1.054	1.00
56	13:31	1.00	10.000	0.10	50.00	50.00	0.853	0.853	1.00
57	14:17	1.00	10.000	0.11	50.00	50.00	1.363	1.363	1.00
58	15:05	1.00	10.000	0.11	50.00	50.00	1.033	1.033	1.00
59	17:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:22	1.00	50.000	0.02	50.00	50.00	0.019	0.019	1.00
61	15:23	1.00	10.000	0.09	50.00	50.00	1.461	1.461	1.00
62	16:19	1.00	10.000	0.10	50.00	50.00	0.719	0.719	1.00
63	17:02	1.00	20.000	0.05	50.00	50.00	0.297	0.297	1.00
64	17:04	1.00	10.000	0.10	50.00	50.00	1.301	1.301	1.00
65	17:11	1.00	10.000	0.10	50.00	50.00	0.939	0.939	1.00
66	17:08	1.00	10.000	0.10	50.00	50.00	1.194	1.194	1.00
67	20:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:16	1.00	10.000	0.09	50.00	50.00	1.711	1.711	1.00
69	19:11	1.00	10.000	0.10	100.00	100.00	0.518	0.518	1.00
70	19:11	1.00	10.000	0.10	100.00	100.00	0.518	0.518	1.00
71	19:56	1.00	10.000	0.10	50.00	50.00	1.079	1.079	1.00
72	23:49	1.00	10.000	0.12	50.00	50.00	1.281	1.281	1.00
73	23:55	1.00	10.000	0.12	50.00	50.00	0.993	0.993	1.00
74	24:57	1.00	10.000	0.12	50.00	50.00	1.012	1.012	1.00
75	5:42	1.00	0.742	1.05	50.00	50.00	1.156	1.156	1.00
76	6:55	1.00	0.948	1.00	50.00	50.00	1.840	1.840	1.00
77	8:03	1.00	0.875	1.02	50.00	50.00	0.497	0.497	1.00
78	10:29	1.00	0.906	1.01	50.00	50.00	1.282	1.282	1.00
79	12:29	1.00	1.118	0.98	50.00	50.00	0.114	0.114	1.00
80	15:37	1.00	0.907	1.01	50.00	50.00	1.001	1.001	1.00
81	15:22	1.00	0.906	0.99	50.00	50.00	1.375	1.375	1.00

CommuChem Laboratories, Inc.
GC/MS Analysis Log

Copy

Initial Time of Tune 17:02
Time Tune Expires 5:02

Shift(s) (A) ___ (B) ✓ (C) ___
Date 5-21-85
Analysis Type SCAN

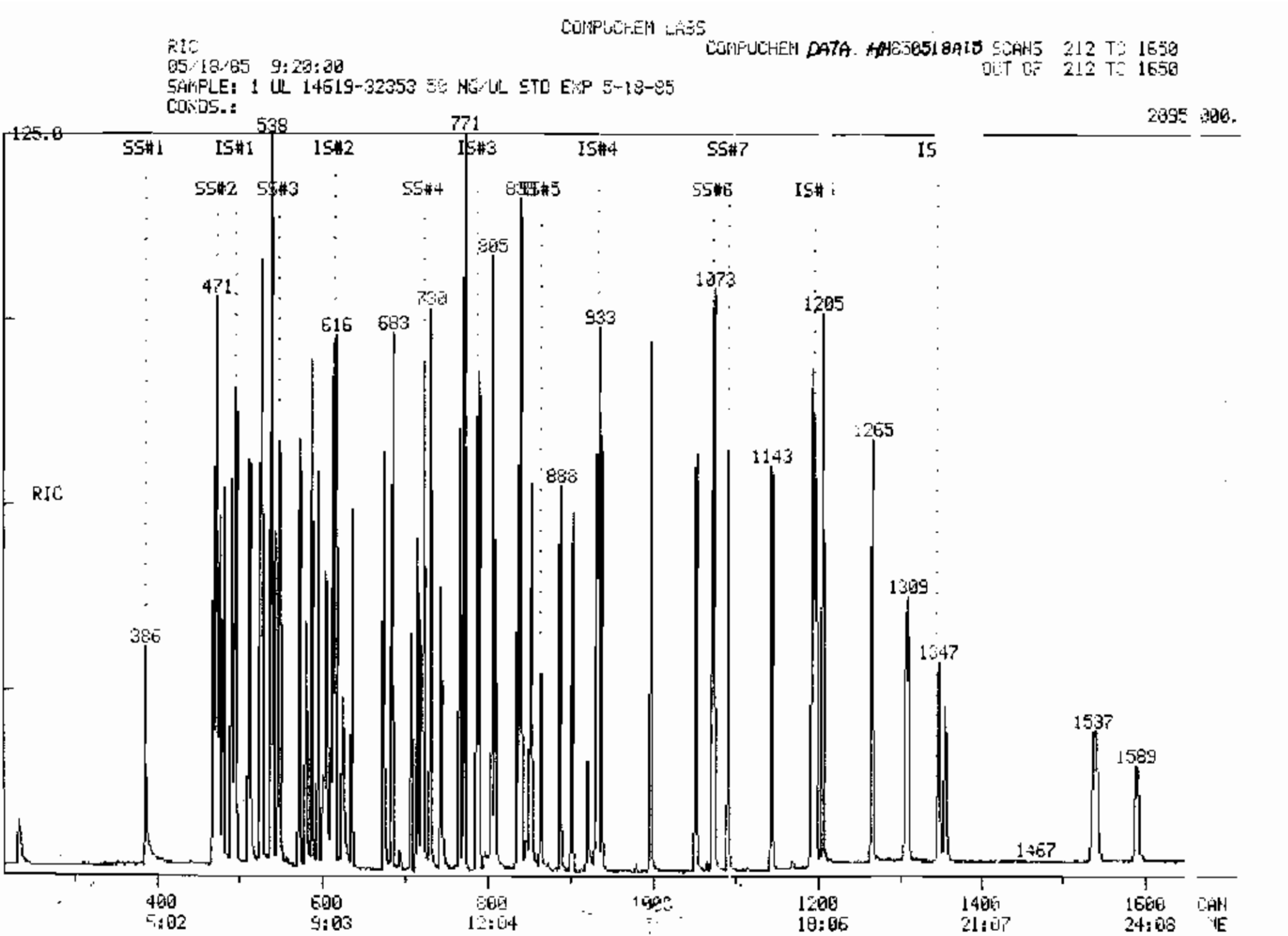
Run Log

	Purged	File Name	Reanalyzed	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition
1		D1185052B22		5/21/85	17:02			1uL	756		217	7050
2		HSE05052B22		5/21/85	17:41			1uL	756		217	50 std (2353)
3		CHBCHK B22		5/21/85	19:15			1uL	756		217	(392)
4		GRR49774B22		5/21/85	19:51	#55	4007	1uL	756		217	49774 R
5		GRR49741B22		5/21/85	21:07	NB506	4007	1uL	756		217	49741 R
6		GRR49784B22		5/21/85	22:03	DB624	4008	1uL	756		217	49784 R
7		GIR51046B22		5/21/85	23:27	B/N/#1	4429	1uL	756	new disc	221	51046
8		GRO49470C22		5/22/85	0:09	BB385	4429	1uL	755		221	+1464 7C035 IL
9		GJR49470C22		〃	1:30	〃	〃	〃	〃		〃	〃
10		GHG51044C22		〃	2:21	Blk1	Genl Std	〃	〃		〃	〃 IL
11		GHG51045C22		〃	3:00	BLK2	〃	〃	〃		〃	〃 IL
12		GRO49721C22		〃	4:21	>5	〃	〃	〃		〃	〃
13		GRO49822C22		〃	5:01	〃	〃	〃	〃		〃	〃
14				/ /	:							
15				/ /	:							
16				/ /	:							
17				/ /	:				RJ			
18				/ /	:							
19				/ /	:					5/22/85		
20				/ /	:							
21				/ /	:							
22				/ /	:							
23				/ /	:							
24				/ /	:							
25				/ /	:							
26				/ /	:							

NDP

5/22/85

Press Hard. Multiple Copies


COMPUCHEM LABS
RIC
05/18/85 9:28:00
SAMPLE: 1 UL 14619-32353 50 NG/UL STD EXP 5-18-85
CONDS.:
COMPUCHEM DATA. HH850518A15 SCANS 212 TO 1650
OUT OF 212 TO 1650
125.0
2895 000.
SS#1
IS#1
SS#2
SS#3
IS#2
SS#4
IS#3
SS#5
SS#6
IS#4
SS#7
IS
538
771
471
616
683
730
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933
1073
1205
1265
1143
888
1309
1347
1537
1589
1467
386
RIC
400
5:02
600
9:03
800
12:04
1000
1200
18:06
1400
21:07
1600
24:08
SCAN

PROCEDURE: RK DIAGNOSTIC REPORT 5/18/85 9:36:39
DATA FILE: HH850518A15
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 3 PROCESSING OPTION: 3

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
4	4	1	16	33	48	16	131	SEMI1S1/SEMI1U1
4	4	1	341	29	24	16	240	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED. 71 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	Q1	1	-501	494	494	.	1	963	.	152	494	.	1
2	Q2	1	-620	614	614	.	1	990	.	136	614	.	1
3	Q3	1	-790	786	786	.	1	992	.	164	786	.	1
4	Q7	2	-394	386	386	.	1	911	.	112	386	.	1
5	Q1	2	-242	233	231	-2	1	912	.	42	231	.	1
6	Q1	3	-478	471	.	.	.	.	.	94	472	.	2
7	Q1	4	-475	468	468	.	1	883	.	93	468	.	1
8	Q1	5	-481	474	475	1	1	991	.	93	475	.	1
9	Q1	6	-486	479	.	.	.	.	.	128	479	.	1
10	Q1	7	-498	491	491	.	2	939	.	146	491	.	1
11	Q1	8	-502	495	496	1	2	939	.	146	496	.	1
12	Q1	9	-517	510	511	1	1	938	.	108	511	.	1
13	Q1	10	-519	512	513	1	1	939	.	146	512	-1	1
14	Q1	11	-531	525	525	.	1	992	.	108	525	.	1
15	Q1	12	-532	526	526	.	1	910	.	45	526	.	1
16	Q1	13	-544	538	538	.	1	910	.	108	538	.	2
17	Q1	14	-544	538	538	.	1	889	.	70	538	.	1
18	Q1	15	-548	542	542	.	1	941	.	117	542	.	1
19	Q1	16	-555	549	549	.	1	922	.	77	549	.	1
20	Q2	2	-579	573	572	-1	1	874	-1	82	572	.	1
21	Q2	3	-586	580	.	.	.	.	.	139	579	.	1
22	Q2	4	-593	587	587	.	1	921	.	122	587	.	1
23	Q2	5	-606	600	602	2	1	948	.	122	601	-1	1
24	Q2	6	-601	595	595	.	1	1000	.	93	595	.	1
25	Q2	7	-609	603	603	.	1	932	.	162	603	.	1
26	Q2	8	-617	611	611	.	1	954	.	180	611	.	1
27	Q2	9	-622	616	616	.	1	972	.	128	616	.	1
28	Q2	10	-629	624	623	-1	1	888	.	127	623	.	2
29	Q2	11	-641	636	636	.	1	950	.	225	636	.	1
30	Q2	12	-678	673	673	.	1	911	.	107	673	.	1
31	Q2	13	-688	683	683	.	1	968	.	142	683	.	1
32	Q3	2	-711	706	707	1	1	944	.	237	707	.	1
33	Q3	3	-719	714	714	.	2	964	.	196	714	.	1
34	Q3	4	-723	718	718	.	2	962	.	196	718	.	1
35	Q3	5	-735	731	730	-1	1	995	.	162	730	.	1
36	Q3	6	-747	743	743	.	1	850	.	65	743	.	1
37	Q3	7	-769	765	766	1	1	992	.	163	766	.	1
38	Q3	8	-775	771	771	.	1	972	.	152	771	.	1
39	Q3	9	-747	743	.	.	.	.	.	138	743	.	1
40	Q3	10	-793	789	789	.	1	981	.	153	789	.	1
41	Q3	11	-807	803	796	-7	1	902	.	184	796	.	1
2	Q3	12	-809	805	.	.	.	.	.	139	805	.	1
43	Q3	13	-809	805	805	.	1	983	.	168	805	.	1
44	Q3	14	-812	808	809	1	1	916	.	89	809	.	1
45	Q3	15	-774	770	771	1	1	903	.	165	770	-1	1
46	Q3	16	-838	835	836	1	1	888	.	149	835	-1	1
47	Q3	17	-843	840	840	.	1	917	.	204	840	.	1
48	Q3	18	-842	839	839	.	1	983	.	166	839	.	1

QUANTITATION REPORT FILE: HH850518A15

DATA: HH850518A15.TI
[illegible]
MPLE: 1 UL 14619-32353 50 NG/UL STD EXP 5-18-85
OUNDS.:
SUBMITTED BY: 15 ANALYST: 875

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	#494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	#460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	#495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
7	*487 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
3	#619 2-FLUOROPHENOL (SS#1)
6	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	494	7:27	1	1.000	A BV	1825850.	40.000 NG	0.98
2	42	231	3:29	1	0.468	A BV	2223840.	50.000 NG	1.22
3	94	472	7:07	1	0.955	A*BV	5113750.	50.000 NG	1.22
4	93	468	7:03	1	0.947	A BV	4396980.	50.000 NG	1.22
5	93	475	7:10	1	0.962	A VV	4613820.	50.000 NG	1.22
6	128	479	7:13	1	0.970	A BV	3394940.	50.000 NG	1.22
7	146	491	7:24	1	0.994	A BV	3628150.	50.000 NG	1.22
8	146	496	7:29	1	1.004	A VV	3698230.	50.000 NG	1.22
9	108	511	7:42	1	1.034	A BV	2234550.	50.000 NG	1.22
10	146	512	7:43	1	1.036	A VV	3526870.	50.000 NG	1.22
11	108	525	7:55	1	1.063	A VV	3042230.	50.000 NG	1.22
12	45	526	7:56	1	1.065	A VV	8223030.	50.000 NG	1.22
13	108	538	8:07	1	1.089	A*VV	3606600.	50.000 NG	1.22
14	70	538	8:07	1	1.089	A BV	3994200.	50.000 NG	1.22
15	117	542	8:10	1	1.097	A BB	2082620.	50.000 NG	1.22
16	77	549	8:17	1	1.111	A VV	5351290.	50.000 NG	1.22
17	136	614	9:16	17	1.000	A BV	7095390.	40.000 NG	0.98
18	82	572	8:38	17	0.932	A VV	9646390.	50.000 NG	1.22
19	139	579	8:44	17	0.943	A BV	1947000.	50.000 NG	1.22

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
20	122	387	8:51	17	0.956	A BB	3029180.	50.000 NG	1.22
21	122	601	9:04	17	0.979	A VV	1065230.	50.000 NG	1.22
[illegible]									
	162	603	9:06	17	0.982	A BV	2574330.	50.000 NG	1.22
e4	180	611	9:13	17	0.995	A BB	2916250.	50.000 NG	1.22
25	128	616	9:17	17	1.003	A VV	9534390.	50.000 NG	1.22
26	127	e23	9:24	17	1.015	A*VV	3462010.	50.000 NG	1.22
27	225	636	9:35	17	1.036	A BB	1630650.	50.000 NG	1.22
28	107	673	10:09	17	1.096	A BB	3037430.	50.000 NG	1.22
29	142	683	10:18	17	1.112	A VV	5851290.	50.000 NG	1.22
30	164	786	11:51	30	1.000	A BB	3745180.	40.000 NG	0.98
31	237	707	10:40	30	0.899	A BB	1260350.	50.000 NG	1.22
32	196	714	10:46	30	0.908	A BV	1525630.	50.000 NG	1.22
33	196	718	10:50	30	0.913	A VV	1638710.	50.000 NG	1.22
34	162	730	11:00	30	0.929	A VV	5348950.	50.000 NG	1.22
35	65	743	11:12	30	0.945	A BV	2873210.	50.000 NG	1.22
36	163	766	11:33	30	0.975	A BV	6565310.	50.000 NG	1.22
37	152	771	11:38	30	0.981	A BV	8000060.	50.000 NG	1.22
38	138	743	11:12	30	0.945	A BV	2134150.	50.000 NG	1.22
39	153	789	11:54	30	1.004	A BB	5308470.	50.000 NG	1.22
40	184	796	12:00	30	1.013	A*BB	339402.	50.000 NG	1.22
41	139	805	12:08	30	1.024	A BV	4314160.	50.000 NG	1.22
42	168	805	12:08	30	1.024	A VV	7298940.	50.000 NG	1.22
43	89	809	12:12	30	1.029	A VV	1918040.	50.000 NG	1.22
44	165	770	11:37	30	0.980	A VV	1389310.	50.000 NG	1.22
45	149	835	12:35	30	1.062	A BV	7655640.	50.000 NG	1.22
46	204	840	12:40	30	1.069	A BV	2362360.	50.000 NG	1.22
47	166	839	12:39	30	1.067	A BV	5678360.	50.000 NG	1.22
[illegible]	138	846	12:45	30	1.076	A VV	773056.	50.000 NG	1.22
	188	931	14:02	49	1.000	A BV	5973910.	40.000 NG	0.98
50	198	849	12:48	49	0.912	A BV	715456.	50.000 NG	1.22
51	169	852	12:51	49	0.915	A VV	3719190.	50.000 NG	1.22
52	248	887	13:23	49	0.953	A BV	1530940.	50.000 NG	1.22
53	284	901	13:35	49	0.968	A BV	1847510.	50.000 NG	1.22
54	266	920	13:52	49	0.988	A BV	561504.	50.001 NG	1.22
55	178	933	14:04	49	1.002	A VV	7247900.	50.000 NG	1.22
56	178	937	14:08	49	1.006	A VV	7390230.	50.000 NG	1.22
57	149	997	15:02	49	1.071	A VV	11952700.	50.000 NG	1.22
58	202	1051	15:51	49	1.129	A VV	8105710.	50.000 NG	1.22
59	240	1194	18:00	59	1.000	A BV	3493340.	40.000 NG	0.98
60	184	1072	16:10	59	0.898	A BB	95648.	50.000 NG	1.22
61	202	1073	16:11	59	0.899	A VV	7578750.	50.000 NG	1.22
62	149	1143	17:14	59	0.957	A VV	4653310.	50.000 NG	1.22
63	252	1192	17:58	59	0.998	A BV	656544.	50.000 NG	1.22
64	228	1193	17:59	59	0.999	A BV	5939730.	50.000 NG	1.22
65	149	1204	18:09	59	1.008	A VV	6578040.	50.000 NG	1.22
66	228	1197	18:03	59	1.003	A VB	5081070.	50.000 NG	1.22
67	264	1355	20:26	67	1.000	A BV	3349760.	40.000 NG	0.98
68	149	1265	19:05	67	0.934	A VV	9624240.	50.000 NG	1.22
69	252	1309	19:44	67	0.966	A*VV	~~9780310~~ 1449055	100.000 NG	2.44
70	252	1309	19:44	67	0.966	A*VV	9980310 1449055	100.000 NG	2.44
71	252	1347	20:19	67	0.994	A BB	4487000.	50.000 NG	1.22
72	276	1536	23:10	67	1.134	A BB	4912910.	50.000 NG	1.22
73	278	1540	23:13	67	1.137	A BB	3987910.	50.000 NG	1.22
	276	1589	23:58	67	1.173	A BB	3986460.	50.000 NG	1.22
	112	386	5:49	1	0.781	A BV	2670680.	50.001 NG	1.22

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	471	7:06	1	0.953	A BV	4132090.	50.001	NG	1.22
77	82	547	8:15	17	0.891	A VV	5038620.	50.001	NG	1.22
7	141	864	13:02	30	1.099	A BV	483648.	50.001	NG	1.22
80	244	1091	16:27	59	0.914	A BV	5448700.	50.001	NG	1.22
81	212	1072	16:10	59	0.898	A BV	7014270.	50.000	NG	1.22

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:27	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:29	1.00	10.000	0.05	50.00	50.00	0.974	0.974	1.00
3	7:07	1.00	10.000	0.10	50.00	50.00	2.241	2.241	1.00
4	7:03	1.00	10.000	0.09	50.00	50.00	1.927	1.927	1.00
5	7:10	1.00	10.000	0.10	50.00	50.00	2.022	2.022	1.00
6	7:13	1.00	10.000	0.10	50.00	50.00	1.487	1.487	1.00
7	7:24	1.00	10.000	0.10	50.00	50.00	1.590	1.590	1.00
8	7:29	1.00	10.000	0.10	50.00	50.00	1.620	1.620	1.00
9	7:42	1.00	10.000	0.10	50.00	50.00	0.979	0.979	1.00
10	7:43	1.00	10.000	0.10	50.00	50.00	1.545	1.545	1.00
11	7:55	1.00	10.000	0.11	50.00	50.00	1.333	1.333	1.00
12	7:56	1.00	10.000	0.11	50.00	50.00	3.603	3.603	1.00
13	8:07	1.00	10.000	0.11	50.00	50.00	1.580	1.580	1.00
14	8:07	1.00	10.000	0.11	50.00	50.00	1.750	1.750	1.00
15	8:10	1.00	10.000	0.11	50.00	50.00	0.913	0.913	1.00
16	8:17	1.00	10.000	0.11	50.00	50.00	2.345	2.345	1.00
17	9:16	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:38	1.00	10.000	0.09	50.00	50.00	1.088	1.088	1.00
19	8:44	1.00	10.000	0.09	50.00	50.00	0.220	0.220	1.00
20	8:51	1.00	10.000	0.10	50.00	50.00	0.342	0.342	1.00
	9:04	1.00	50.000	0.02	50.00	50.00	0.120	0.120	1.00
	8:58	1.00	10.000	0.10	50.00	50.00	0.575	0.575	1.00
23	9:06	1.00	10.000	0.10	50.00	50.00	0.290	0.290	1.00
24	9:13	1.00	10.000	0.10	50.00	50.00	0.329	0.329	1.00
25	9:17	1.00	10.000	0.10	50.00	50.00	1.075	1.075	1.00
26	9:24	1.00	10.000	0.10	50.00	50.00	0.390	0.390	1.00
27	9:35	1.00	10.000	0.10	50.00	50.00	0.184	0.184	1.00
28	10:09	1.00	10.000	0.11	50.00	50.00	0.342	0.342	1.00
29	10:18	1.00	10.000	0.11	50.00	50.00	0.660	0.660	1.00
30	11:51	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:40	1.00	10.000	0.09	50.00	50.00	0.269	0.269	1.00
32	10:46	1.00	10.000	0.09	50.00	50.00	0.326	0.326	1.00
33	10:50	1.00	100.000	0.01	50.00	50.00	0.350	0.350	1.00
34	11:00	1.00	10.000	0.09	50.00	50.00	1.143	1.143	1.00
35	11:12	1.00	50.000	0.02	50.00	50.00	0.614	0.614	1.00
36	11:33	1.00	10.000	0.10	50.00	50.00	1.402	1.402	1.00
37	11:38	1.00	10.000	0.10	50.00	50.00	1.709	1.709	1.00
38	11:12	1.00	50.000	0.02	50.00	50.00	0.456	0.456	1.00
39	11:54	1.00	10.000	0.10	50.00	50.00	1.134	1.134	1.00
40	12:00	1.00	50.000	0.02	50.00	50.00	0.072	0.072	1.00
41	12:08	1.00	50.000	0.02	50.00	50.00	0.922	0.922	1.00
42	12:08	1.00	10.000	0.10	50.00	50.00	1.559	1.559	1.00
43	12:12	1.00	10.000	0.10	50.00	50.00	0.410	0.410	1.00
44	11:37	1.00	10.000	0.10	50.00	50.00	0.297	0.297	1.00
45	12:35	1.00	10.000	0.11	50.00	50.00	1.635	1.635	1.00
46	12:40	1.00	10.000	0.11	50.00	50.00	0.505	0.505	1.00
	12:39	1.00	10.000	0.11	50.00	50.00	1.213	1.213	1.00
48	12:45	1.00	50.000	0.02	50.00	50.00	0.165	0.165	1.00

[illegible]												
51	Q7	4	-934	948	947	-1	1	971	.	82	947	.
52	Q7	5	-726	721	722	1	1	965	.	172	722	.
53	Q7	6	-868	865	864	-1	1	927	.	141	864	.
54	Q4	1	-933	931	931	.	1	975	.	139	931	.
55	Q5	1	-1192	1190	1194	4	1	974	.	240	1194	.
[illegible]												
57	Q4	2	-853	850	.	.	.	.	.	198	849	.
58	Q4	3	-855	852	852	.	1	924	.	169	852	.
59	Q4	4	-890	887	888	1	1	942	.	248	887	-1
60	Q4	5	-904	902	902	.	1	934	.	234	901	-1
61	Q4	6	-923	921	920	-1	1	957	.	266	920	.
62	Q4	7	-935	933	933	.	2	996	.	178	933	.
63	Q4	8	-939	937	937	.	2	993	.	178	937	.
64	Q4	9	-997	996	997	1	1	964	-1	149	997	.
65	Q4	10	-1052	1052	1052	.	1	990	.	202	1051	-1
66	Q5	2	-1072	1072	.	.	.	.	.	184	1072	.
67	Q5	3	-1074	1074	1073	-1	1	998	.	202	1073	.
68	Q5	4	-1142	1144	1143	-1	1	960	.	149	1143	.
69	Q5	5	-1189	1191	1192	1	1	963	.	252	1192	.
70	Q5	6	-1191	1193	1193	.	2	980	.	228	1193	.
71	Q5	7	-1201	1204	1205	1	1	993	.	149	1204	-1
72	Q5	8	-1191	1193	1193	.	2	993	.	228	1193	.
73	Q6	2	-1259	1263	1265	2	1	987	.	149	1265	.
74	Q6	3	-1301	1305	1309	4	1	989	.	252	1309	.
75	Q6	4	-1301	1305	1309	4	1	989	.	252	1309	.
76	Q6	5	-1341	1346	1347	1	1	990	.	252	1347	.
77	Q6	6	-1522	1530	.	.	.	.	.	276	.	.
78	Q6	7	-1525	1533	.	.	.	.	.	278	.	.
79	Q6	8	-1573	1582	.	.	.	.	.	276	1580	.
80	Q7	7	-1091	1092	1091	-1	1	987	.	244	1091	.
81	Q8	2	-1072	1072	1072	.	1	969	.	212	1072	.

Copy

Mead CompuChem
GC/MS Analysis Log

Initial Time of Tune: 7:39
Time Tune Expires: 19:39

Shift(s) (A) ← (B) — (C) —
Date 5-18-85
Analysis Type Semi 1

Run Log — Press Hard, Multiple Copies

	REJECTED	File Name	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s Disposition, Etc.)
1		DH8505 18A15	5/18/85	7 39			1.0ul	BZ		3017	14658 (2010) DFTPP
2		HG8505 18A15	5/18/85	7 54			1.0ul	BZ		3017	14619 (2353) SOM6 189 lows
3		HH8505 18A15	5/18/85	9 20			1.0	BZ		3017	"
4		SC8505 18A15	5/18/85	10 50			1.0	BZ		309	Surrogate check
5		GP4975DA15	5/18/85	11 46	SS 27	4007	1.0	BZ		3017	
6		GJ4941 6A15	5/18/85	12-38	BLK1	4276	1.0	BZ		309	
7		GH4 9288 A15	11 /		E9595	4216	"	"		"	
8		GH4 9289 A15	/ "		E9596	"	"	"		"	
9		GH4 9291 A15	/ "	15:27	E9597	"	"	BZ		4	
10		GH4 9292 A15	/ "	16:23	E9598	"	"	"		"	
11		GH4 9819 A15	/ "	17:10	BLK1	Con Tol	"	"		"	BLK1
12		GH4 9 A15	/ "	17 32	SHELL	"	"	"		"	Needs to be reanalyzed at dilution
13		GH4 9 A15	/ "	18 34	SHELL	"	"	"		"	4 needs reinjection
14			/ /								
15			/ /								
16			/ /								
17			/ /								
18			/ /								
19			/ /								
20			/ /								
21			/ /								
22			/ /								
23			/ /								
24			/ /								
25			/ /								
26			/ /								

QC /

5/21/85

COMPUCHEM LABS

RIC

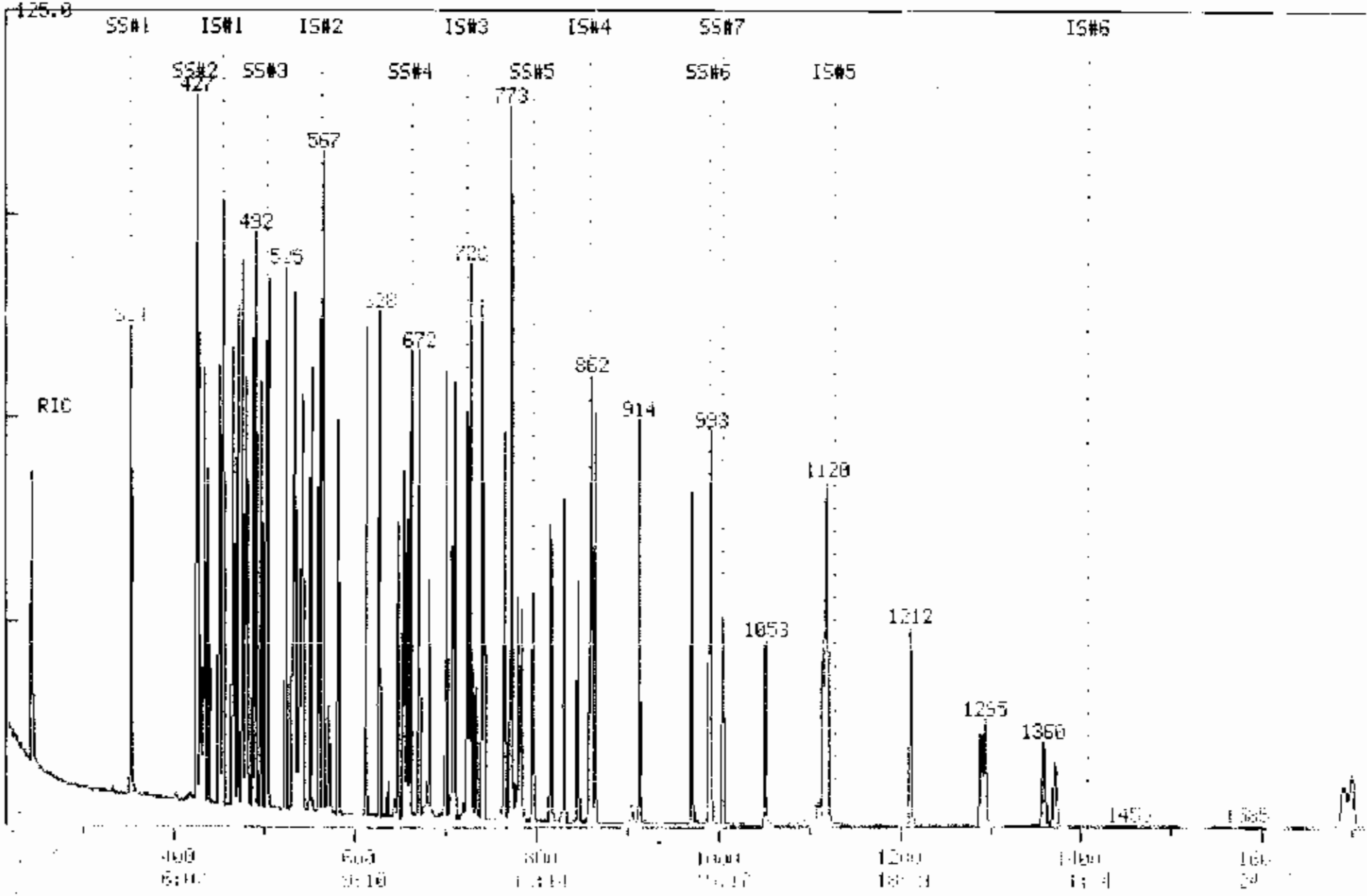
05/24/85 10:25:00

SAMPLE: 1 UL 50 NG STD#14651 (5-25-65)

CONDS.:

COMPUCHEM DATA: HG8508524B.2 SCANS 21 TO 17 5

OUT OF 21 TO 20 0



COMPUCHEM LABS

RIC
05/24/85 18:25:00
SAMPLE: 1 UL 50 NG STD#14661 (5-25-85)
CONDS.:

COMPUCHEM DATA: HGSS0524B22 SCANS 17[illegible] TO 20[illegible]
OUT OF 21[illegible] TO 20[illegible]

1[illegible]759E08.

PROCEDURE: RK DIAGNOSTIC REPORT 5/24/85 18:54:31
DATA FILE: HGB50524B22
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: _ PROCESSING OPTION: 3
REPORT: SEMI1S1

---- STANDARDS -----				>< --- PLUS UNKNOWN ---			>< - LIST NAMES - >	
PEAK	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	84	53	36	96	64	SEMI1S1/SEMI1U1
3	2	2	512	28	18	16	297	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 54 FOUND

COMPOUND ><		---------- SEARCH ----------					>< SAT ><	------ CHRO -------				
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	01	1	-463	455	455	.	4	959	.	152	454	-1	3
2	03	1	-738	724	725	1	3	943	.	164	725	.	4
3	02	1	-576	566	565	-1	3	925	.	136	565	.	1
4	07	2	-359	353	354	1	2	908	.	112	354	.	1
5	01	2	-446	440	.	.		.		42	440	.	.
6	01	3	-434	426	.	.		.	.	94	427	.	1
7	01	4	-442	434	.	.		.	.	93	435	.	1
8	01	5	-554	544	544	.	1	982	.	93	544	.	1
9	01	6	-578	568	.	.		.	.	128	567	.	1
10	01	7	-460	452	452	.	2	981	.	146	452	.	1
11	01	8	-464	456	456	.	2	930	.	146	456	.	1
12	01	9	-475	467	467	.	2	934	.	108	467	.	1
13	01	10	-481	473	472	-1		932	.	146	472	.	1
14	01	11	-485	476	477	1	3	945	.	108	477	.	1
15	01	12	-489	480	481	1	1	902	.	45	481	.	1
16	01	13	-497	488	489	1	1	905	.	108	489	.	1
17	01	14	-501	492	.	.		.	.	70	492	.	1
18	01	15	-508	499	498	-1	1	991	.	117	498	.	1
19	01	16	-514	505	505	.	1	917	.	77	505	.	1
20	02	2	-535	526	.	.		.	.	82	525	.	1
21	02	3	-543	533	.	.		.	.	139	532	.	1
22	02	4	-544	534	535	1	2	917	.	122	535	.	1
23	02	5	-552	542	.	.		.	.	122	542	.	1
24	02	6	-554	544	544	.	3	981	.	93	544	.	1
25	02	7	-563	553	553	.	1	919	.	162	553	.	1
26	02	8	-572	562	561	-1	1	943	.	180	561	.	1
27	02	9	-578	568	567	-1	1	965	.	128	567	.	2
28	02	10	-583	573	.	.		.	.	127	573	.	1
29	02	11	-594	583	583	.	1	945	.	225	583	.	1
30	02	12	-545	535	.	.		.	.	107	535	.	1
31	02	13	-641	630	628	-2	2	966	.	142	628	.	1
32	03	2	-661	649	649	.	1	945	.	237	649	.	1
33	03	3	-671	659	659	.	2	967	.	196	658	-1	1
34	03	4	-671	659	659			914	.	196	658	-1	1
35	03	5	-685	673	672	-1	1	998	.	162	672	.	1
36	03	6	-696	684	.	.		.	.	65	683	.	1
37	03	7	-714	701	702	1	1	992	.	163	702	.	1
38	03	8	-724	711	711			911		179	711		1
39	03	9	-733	720	.	.		.	.	136	721	.	2
40	03	10	-741	728	728	.		994		153	728	.	1
41	03	11	-743	730	730	.	1	916	.	184	730	.	1
42	03	12	-751	738	.	.		.	.	111	738	.	1
43	03	13	-755	742	742	.	1	991	.	168	742	.	1
44	03	14	-757	744	744			994	.	93	744	.	1
45	03	15	-757	744	.	.		.	.	165	744	.	1
46	03	16	-779	765	.	.		.	.	149	766	.	1
47	03	17	-784	772	773	1	1	911		204	773		1

4?	03	17	-790	776	.	.		.	.	138	777	.
50	07	3	-433	425	426	1	:	933	.	99	426	.
51	07	4	-513	504	503	-1	1	906	.	82	503	.
52	07	5	-675	663	663	.	1	963	.	172	663	.
53	07	6	-811	797	797	.	1	938	.	141	797	.
54	04	1	-874	864	860	-4	1	968	.	188	860	.
55	05	1	-1141	1128	.	.		.	.	240	1126	.
56	06	1	-1422	1406	1409	3	2	998	.	264	.	.
57	04	2	-794	780	781	1	1	910	.	198	781	.
58	04	3	-797	783	.	.	.	.	.	169	784	.
59	04	4	-831	817	817	.	1	930	.	248	817	.
5a	04	5	-846	832	832	.	1	957	.	284	831	-1
5b	04	6	-861	846	847	1	1	960	.	266	847	.
5c	04	7	-876	861	862	1	1	995	.	178	862	.
5d	04	8	-880	865	866	1	2	994	.	178	866	.
5e	04	9	-928	913	914	1	1	967	.	149	914	.
5f	04	10	-987	971	972	1	1	959	.	202	972	.
60	05	2	-1141	1124	.	.	.	.	.	184	.	.
61	05	3	-1008	992	993	1	1	993	.	202	993	.
62	05	4	-1069	1052	1052	.	1	968	.	149	1052	.
63	05	5	-1133	1116	1111	-5	1	961	.	252	1111	.
64	05	6	-1138	1121	1121	.	2	976	.	228	1121	.
65	05	7	-1140	1123	1119	-4	2	972	.	149	1119	.
66	05	8	-1145	1128	1121	-7	2	992	.	228	1121	.
67	06	2	-1242	1224	.	.			.	149	1224	.
68	06	3	-1330	1311	.	.		.	.	252	1308	.
69	06	4	-1336	1317	.	.		.	.	252	1318	.
6a	06	5	-1408	1388	.	.		.	.	252	1386	.
6b	06	6	-1779	1756	.	.		.	.	276	.	.
6c	06	7	-1787	1764	.	.		.	.	278	.	.
6d	06	8	-1886	1862	.	.		.	.	276	.	.
80	07	7	-1020	1004	1006	2	1	979	.	244	1005	-1
81	08	2	-1007	991	991	.	1	939	.	212	991	.

QUANTI

DATA HG850524B22.TI
05/24/85 18:25:00
SAMPLE: 1 UL 50 NG STD#14661 (5-25-85)
ICNDS :
SUBMITTED BY: 22   ANALYST: 862

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4,-DICHLORBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	±10 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <1[illegible]-44-4>
6	±01 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	426 1,4-DICHLOROBENZENE (Q1#8) <106-4[illegible]
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-5[illegible]>
11	±20 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#1[illegible] <[illegible]620-32-9>
13	±22 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14[illegible] <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	±03 2,4-DIMETHYLPHENOL (Q2#4) <105-67-[illegible]
21	±25 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	±02 2,4-DICHLOROPHENOL (Q2#7) <120-83-[illegible]
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-[illegible]
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-5[illegible]
30	*** D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	±11 2,4,6-TRICHLOROPHENOL (Q3#3) <88-[illegible]>
33	±26 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-[illegible]
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-[illegible]
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	±05 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	±07 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-[illegible]
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
[illegible]	[illegible]
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#1[illegible] <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
76	### D5-PHENOL (SS#2)
77	### D5-NITROBENZENE (SS#3)
78	### 2-FLUOROBIPHENYL (SS#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#7)
81	### D10 PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	454	6:56	1	1.000	A BB	21140.	40.000 NG	0.96
2	42	245	3:45	1	0.540	A*VV	4959230.	50.000 NG	1.21
3	94	427	6:32	1	0.941	A BV	3964600.	50.000 NG	1.21
4	93	435	6:39	1	0.958	A*VV	6512950.	50.000 NG	1.21
5	93	544	8:19	1	1.198	A BB	2755270	50.000 NG	1.21
6	128	567	8:40	1	1.249	A*BV	7188670.	50.000 NG	1.21
7	146	452	6:55	1	0.996	A BV	3123830.	50.000 NG	1.21
8	146	456	6:58	1	1.004	A VB	3209500.	50.000 NG	1.21
9	108	467	7:08	1	1.029	A BV	1924510.	50.000 NG	1.21
10	146	472	7:13	1	1.040	A BB	3624030.	50.000 NG	1.21
11	108	477	7:17	1	1.051	A VB	2498300.	50.000 NG	1.21
12	45	481	7:21	1	1.059	A VV	5794710.	50.000 NG	1.21
13	108	489	7:28	1	1.077	A VV	2740060.	50.000 NG	1.21
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	53.000 NG	1.37
15	117	498	7:37	1	1.097	A BB	1726870.	50.000 NG	1.21
16	77	505	7:43	1	1.112	A VV	4361470.	50.000 NG	1.21
17	136	565	8:38	17	1.000	A BV	2954270	40.000 NG	0.96
18	82	525	8:02	17	0.929	A BV	1403240.	50.000 NG	1.21
19	139	532	8:08	17	0.942	A BB	1671570.	41.843 NG	1.01

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT		%TOT
30	122	535	8:11	17	0.947	A BV	3370530	50.000	NG	1.21
31	122	542	8:17	17	0.959	A VV	3747250.	50.000	NG	1.21
32	93	544	8:19	17	0.963	A BB	3582970.	50.000	NG	1.21
33	162	553	8:27	17	0.979	A BV	3459090.	50.000	NG	1.21
34	180	561	8:35	17	0.993	A BB	2998230.	50.000	NG	1.21
35	128	567	8:40	17	1.004	A*BV	3198670.	50.000	NG	1.21
36	127	573	8:46	17	1.014	A VB	3054496.	50.000	NG	1.21
37	225	583	8:55	17	1.032	A BB	1403710.	50.000	NG	1.21
38	107	535	8:11	17	0.947	A BV	2944700.	50.000	NG	1.21
39	142	628	9:36	17	1.112	A BB	4245720.	50.000	NG	1.21
40	164	725	11:05	30	1.000	A BB	2537590.	40.000	NG	0.96
41	237	649	9:55	30	0.895	A BB	3209870.	50.000	NG	1.21
42	196	655	10:01	30	0.903	A BB	5076270. 1337235	100.002	NG	2.41
43	196	655	10:01	30	0.903	A BB	5076270. 1337235	100.002	NG	2.41
44	162	672	10:16	30	0.927	A BV	3277210.	50.000	NG	1.21
45	65	683	10:26	30	0.942	A VV	2925490.	50.000	NG	1.21
46	163	702	10:44	30	0.968	A BB	4700290	50.000	NG	1.21
47	152	711	10:52	30	0.981	A BV	3127370.	50.000	NG	1.21
48	138	721	11:01	30	0.994	A*VV	130752.	50.000	NG	1.21
49	153	728	11:08	30	1.004	A BB	3139090	50.000	NG	1.21
50	184	730	11:10	30	1.007	A BB	3583490.	50.000	NG	1.21
51	139	742	11:21	30	1.023	A VV	3402960	50.000	NG	1.21
52	168	742	11:21	30	1.023	A BV	3219390.	50.000	NG	1.21
53	89	744	11:22	30	1.026	A BV	1626390.	50.000	NG	1.21
54	165	744	11:22	30	1.026	A BB	1603790.	50.000	NG	1.21
55	149	766	11:43	30	1.057	A BV	4582450.	50.000	NG	1.21
56	204	773	11:49	30	1.066	A BB	3527900.	50.000	NG	1.21
57	166	774	11:50	30	1.068	A BV	4002270.	50.000	NG	1.21
58	138	777	11:53	30	1.072	A*VV	497048.	50.000	NG	1.21
59	188	860	13:09	49	1.000	A BB	2473530.	40.000	NG	0.96
60	198	781	11:56	49	0.908	A BB	3455568.	50.000	NG	1.21
61	169	784	11:59	49	0.912	A*BB	1930490.	56.368	NG	1.36
62	248	817	12 29	49	0.950	A BB	3114490.	50.000	NG	1.21
63	284	831	12:42	49	0.966	A BB	3113190.	50.000	NG	1.21
64	166	847	12.57	49	0.985	A*VB	3911.0.	50.001	NG	1.21
65	178	862	13:11	49	1.002	A BV	3409980	50.000	NG	1.21
66	178	866	13:14	49	1.007	A VV	4559930.	50.000	NG	1.21
67	149	914	13:58	49	1.063	A*VV	4411710.	50.000	NG	1.21
68	202	972	14:51	49	1.130	A VV	4203710.	50.000	NG	1.21
69	240	1118	17:05	59	1.000	A BB	2062140.	40.000	NG	0.96
70	84	NOT FOUND.								
71	202	993	15:11	59	0.889	A VV	4447790	50.000	NG	1.21
72	149	1052	16:05	59	0.941	A VV	1682430.	50.000	NG	1.21
73	252	1111	16:59	59	0.994	A BV	298048.	50.000	NG	1.21
74	228	1116	17:04	59	0.998	A BV	3123290.	50.000	NG	1.21
75	149	1119	17:06	59	1.001	A VV	4040000.	50.000	NG	1.21
76	228	1121	17:08	59	1.003	A VV	3994170.	50.000	NG	1.21
77	264	1373	20:59	67	1.000	A BB	2106750.	40.000	NG	0.96
78	149	1212	18:32	67	0.883	A VV	4600290.	50.000	NG	1.21
79	252	1290	19:43	67	0.940	A BV	3303690.	50.000	NG	1.21
80	252	1285	19:40	67	0.937	A VB	4152410.	50.000	NG	1.21
81	252	1360	20.47	67	0.991	A BV	4000000.	50.000	NG	1.21
82	276	1698	25:52	67	1.232	A BV	3012710.	50.000	NG	1.21
83	278	1701	26:00	67	1.239	A BB	2941710.	50.000	NG	1.21
84	112	354	5:25	1	0.780	A BV	3203670.	50.001	NG	1.21

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	426	6:31	1	0.938	A BB	[illegible]	50.001	NG	1.21
77	82	503	7:41	17	0.890	A VV	[illegible]	50.001	NG	1.21
78	172	663	10:08	30	0.914	A BV	[illegible]	50.001	NG	1.21
79	241	797	12:11	30	1.099	A BB	[illegible]	50.001	NG	1.21
80	244	1005	15:22	59	0.899	A VV	[illegible]	50.001	NG	1.21
81	212	991	15:09	59	0.886	A VV	[illegible]	160.001	NG	3.86

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:45	1.00	10.000	0.05	50.00	50.00	2.446	2.446	1.00
3	6:32	1.00	10.000	0.09	50.00	50.00	1.956	1.956	1.00
4	6:39	1.00	10.000	0.10	50.00	50.00	3.213	3.213	1.00
5	8:19	1.00	10.000	0.12	50.00	50.00	1.768	1.768	1.00
6	8:40	1.00	10.000	0.12	50.00	50.00	3.546	3.546	1.00
7	6:55	1.00	10.000	0.10	50.00	50.00	1.541	1.541	1.00
8	6:58	1.00	10.000	0.10	50.00	50.00	1.583	1.583	1.00
9	7:08	1.00	10.000	0.10	50.00	50.00	0.949	0.949	1.00
10	7:13	1.00	10.000	0.10	50.00	50.00	1.485	1.485	1.00
11	7:17	1.00	10.000	0.11	50.00	50.00	1.232	1.232	1.00
12	7:21	1.00	10.000	0.11	50.00	50.00	4.339	4.339	1.00
13	7:28	1.00	10.000	0.11	50.00	50.00	1.352	1.352	1.00
14	7:31	1.00	10.000	0.11	50.00	50.00	1.609	1.609	1.00
15	7:37	1.00	10.000	0.11	50.00	50.00	0.852	0.852	1.00
16	7:43	1.00	10.000	0.11	50.00	50.00	2.137	2.137	1.00
17	8:38	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:02	1.00	10.000	0.09	50.00	50.00	1.132	1.132	1.00
19	8:08	1.00	10.000	0.09	41.84	50.00	0.255	0.304	0.84
20	8:11	1.00	10.000	0.09	50.00	50.00	0.364	0.364	1.00
21	8:17	1.00	50.000	0.02	50.00	50.00	0.266	0.266	1.00
22	8:19	1.00	10.000	0.10	50.00	50.00	0.546	0.546	1.00
23	8:27	1.00	10.000	0.10	50.00	50.00	0.314	0.314	1.00
24	8:35	1.00	10.000	0.10	50.00	50.00	0.365	0.365	1.00
25	8:40	1.00	10.000	0.10	50.00	50.00	1.095	1.095	1.00
26	8:46	1.00	10.000	0.10	50.00	50.00	0.130	0.130	1.00
27	8:58	1.00	10.000	0.10	50.00	50.00	0.214	0.214	1.00
28	9:11	1.00	10.000	0.09	50.00	50.00	0.448	0.448	1.00
29	9:36	1.00	10.000	0.11	50.00	50.00	0.646	0.646	1.00
30	10:07	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	9:55	1.00	10.000	0.09	50.00	50.00	0.381	0.381	1.00
32	10:01	1.00	10.000	0.09	100.00	100.00	0.422	0.422	1.00
33	10:01	1.00	100.000	0.01	100.00	100.00	0.422	0.422	1.00
34	10:16	1.00	10.000	0.09	50.00	50.00	1.222	1.222	1.00
35	10:26	1.00	50.000	0.02	50.00	50.00	0.639	0.639	1.00
36	10:44	1.00	10.000	0.10	50.00	50.00	1.419	1.419	1.00
37	10:52	1.00	10.000	0.10	50.00	50.00	1.683	1.683	1.00
38	11:01	1.00	50.000	0.02	50.00	50.00	0.041	0.041	1.00
39	11:08	1.00	10.000	0.10	50.00	50.00	1.211	1.211	1.00
40	11:10	1.00	50.000	0.02	50.00	50.00	0.113	0.113	1.00
41	11:21	1.00	50.000	0.02	50.00	50.00	0.758	0.758	1.00
42	11:21	1.00	10.000	0.10	50.00	50.00	1.645	1.645	1.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
44	11:22	1.00	10.000	0.10	50.00	50.00	0.380	0.380	1.00
45	11:43	1.00	10.000	0.11	50.00	50.00	1.445	1.445	1.00
46	11:49	1.00	10.000	0.11	50.00	50.00	0.608	0.608	1.00
47	11:50	1.00	10.000	0.11	50.00	50.00	1.282	1.282	1.00
48	11:53	1.00	50.000	0.02	50.00	50.00	0.129	0.129	1.00

	FET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
[illegible]	13:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
[illegible]	11:56	1.00	50.000	0.02	50.00	50.00	0.110	0.110	1.00
51	11:59	1.00	10.000	0.09	56.37	50.00	0.388	0.344	1.13
[illegible]	12:29	1.00	10.000	0.09	50.00	50.00	0.232	0.232	1.00
52	12:42	1.00	10.000	0.10	50.00	50.00	0.304	0.304	1.00
5A	12:57	1.00	50.000	0.02	50.00	50.00	0.148	0.148	1.00
5F	13:11	1.00	10.000	0.10	50.00	50.00	1.086	1.086	1.00
5e	13:14	1.00	10.000	0.10	50.00	50.00	0.915	0.915	1.00
5"	13:58	1.00	10.000	0.11	50.00	50.00	1.327	1.327	1.00
58	14:51	1.00	10.000	0.11	50.00	50.00	0.845	0.845	1.00
5?	17:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:13		50.000			50.00		0.043	
61	15:11	1.00	10.000	0.09	50.00	50.00	1.733	1.733	1.00
62	16:05	1.00	10.000	0.09	50.00	50.00	0.653	0.653	1.00
63	16:59	1.00	20.000	0.05	50.00	50.00	0.116	0.116	1.00
64	17:04	1.00	10.000	0.10	50.00	50.00	1.212	1.212	1.00
6F	17:06	1.00	10.000	0.10	50.00	50.00	1.129	1.129	1.00
6[illegible]	17:02	1.00	10.000	0.10	50.00	50.00	1.121	1.121	1.00
67	20:59	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
6[illegible]	18:32	1.00	10.000	0.09	50.00	50.00	1.747	1.747	1.00
6[illegible]	19:43	1.00	10.000	0.09	50.00	50.00	1.255	1.255	1.00
7[illegible]	19:48	1.00	10.000	0.09	50.00	50.00	0.965	0.965	1.00
71	20:47	1.00	10.000	0.10	50.00	50.00	1.066	1.066	1.00
7F	25:52	1.00	10.000	0.12	50.00	50.00	1.144	1.144	1.00
7I	26:00	1.00	10.000	0.12	50.00	50.00	1.117	1.117	1.00
7A	27:22	1.00	10.000	0.12	50.00	50.00	1.133	1.133	1.00
7F	5:25	1.00	0.742	1.05	50.00	50.00	1.580	1.580	1.00
7e	6:31	1.00	0.948	0.99	50.00	50.00	1.896	1.896	1.00
7"	7:41	1.00	0.875	1.02	50.00	50.00	0.622	0.622	1.00
7[illegible]	10:08	1.00	0.966	1.01	50.00	50.00	1.367	1.367	1.00
7F	12:11	1.00	1.118	0.98	50.00	50.00	0.106	0.106	1.00
8[illegible]	15:22	1.00	0.907	0.99	50.00	50.00	1.135	1.135	1.00
8[illegible]	15:09	1.00	10.000	0.04	160.00	160.00	0.469	0.469	1.00

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Copy

Initial Time of Tune 10:19
Time Tune Expires 22:19

Shift(s) (A) 5 (B) (C)
Date 5/24/85
Analysis Type SIGMA 1

Run Log

REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #s, Disposition, Etc.)
	DH8505 24A22		5/24/85	:			1ul			2875	
	DH8505 24A22		5/24/85	:			1ul			2875	
	DH8505 24A22		5/24/85	:			1ul			2875	
	HG900160A22		5/24/85	:			1ul	683		2875	14664 #2356 160ng
	HG900020A22		5/24/85	11:40			1ul	683		2875	14660 #2352 20ng
	HG900120A22		5/24/85	12:30			1ul	683		2875	14663 #2355 120ng
	HG900050A22		5/24/85	:			1ul	683		2875	14661 #2353 50ng
	HG900080A22		5/24/85	14:24			1ul	683		2875	14662 #2354 80ng
	VG8505 24A22		5/24/85	11:25			1ul	802		2875	
	SENTECHK A22		5/24/85	:			1ul	802		2875	
	GH05104 5A22		5/24/85	21:10	Blank	Comp Std	1ul	802		2875	51045 (A)
	GH05082 1A22		5/24/85	21:45	Blank	4358-4	1ul	802		2835	50821 (A)
	GH05046 3A22		5/24/85	:	BB546	4358-1	1ul	802		2875	50463
			/ /	:							
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ENTERED

5/29/85

DM 5/24/85

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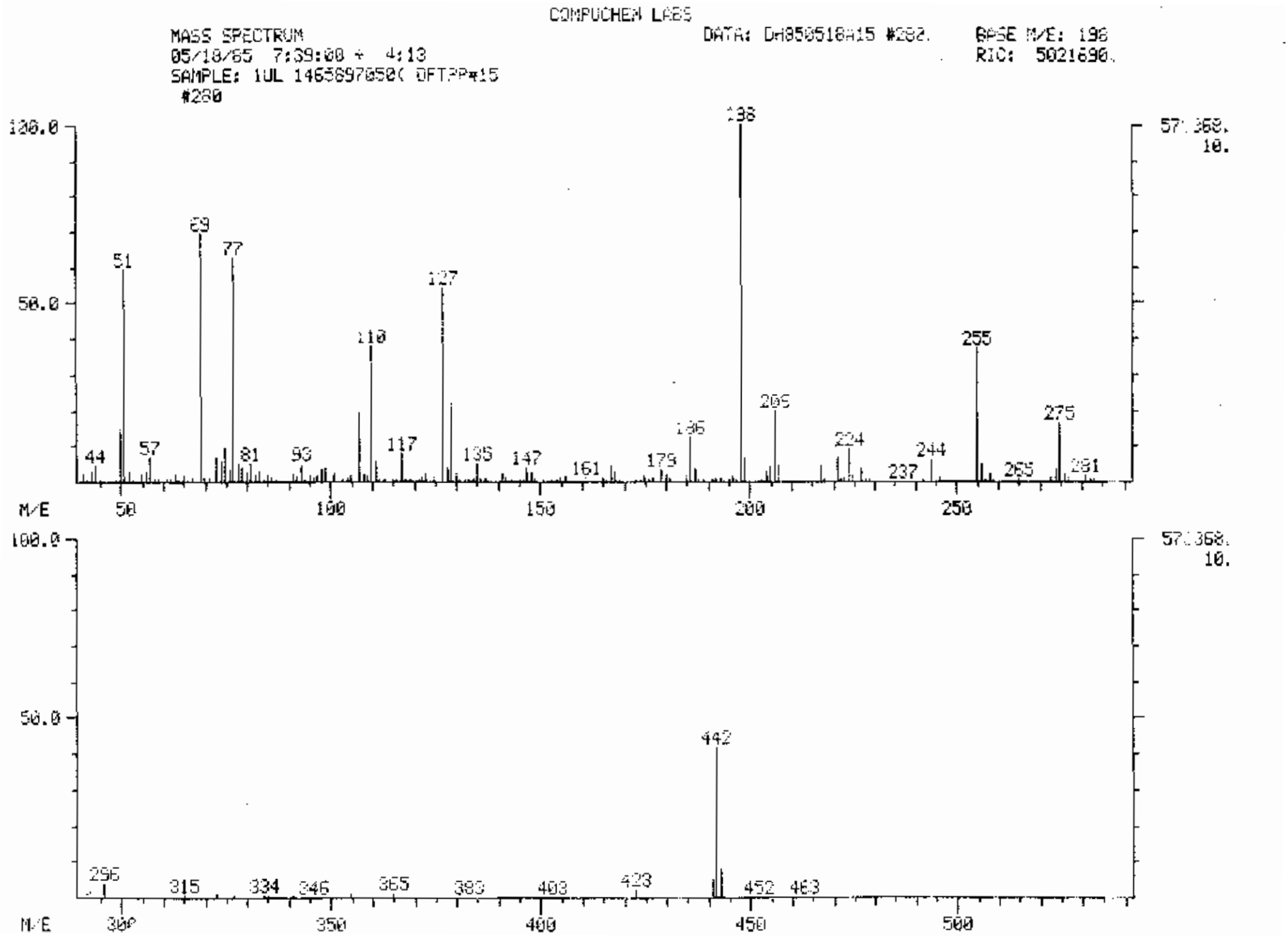
COMPUCHEM LABS
MASS SPECTRUM
05/18/85 7:39:00 + 4:13
SAMPLE: 1UL 1465897050(DFTPP#15
#280
DATA: DH850518#15 #282.
BPSE M/E: 198
RIC: 5021690.
100.0
50.0
57.368.
10.
M/E
50
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463

COMPUCHEM LABS

MASS LIST DATA: DH85051BA15 # 280 BASE M/E: 198
05/18/85 7:39:00 + 4:13 RIC: 5D21690.
SAMPLE. 1UL 1465897050(DFTPP#15
#280

41 0.00 MINIMA MIN INTEN: 1058. MAX INTEN: 570368.
463 # 0 MAXIMA

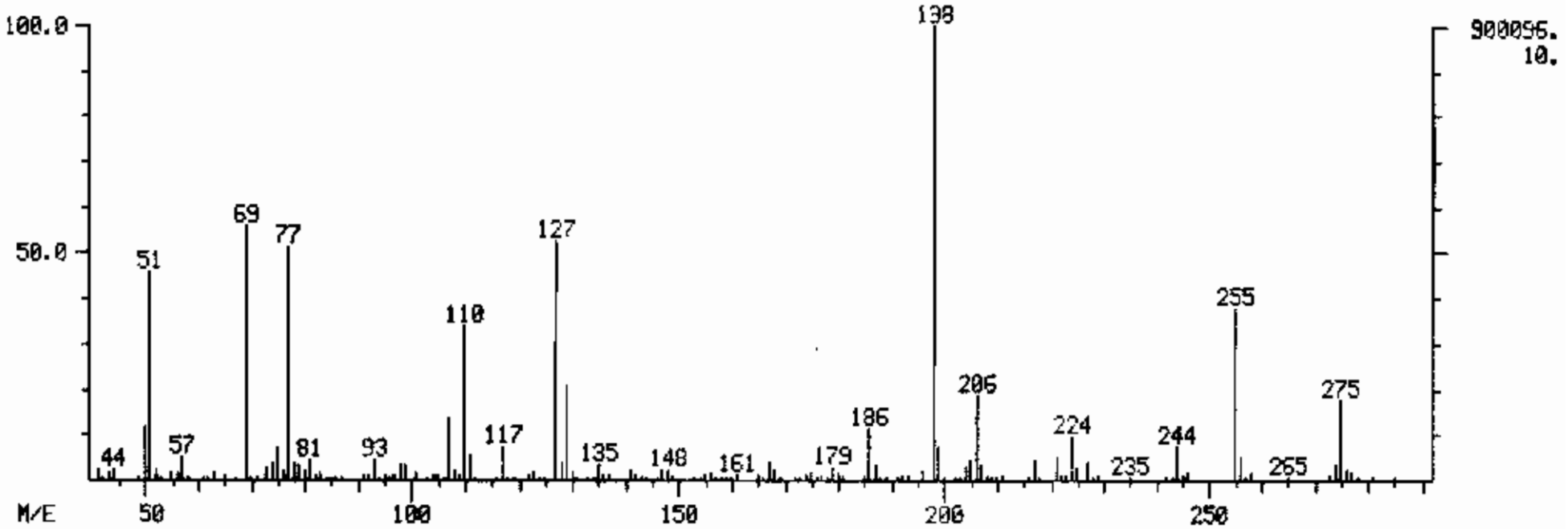
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	2.01	101	2.29	158	0.34	227	3.69
42	0.74	103	0.84	159	0.40	228	0.56
43	2.85	104	1.22	160	0.65	229	0.47
44	4.35	105	1.87	161	1.21	231	0.28
45	0.60	107	19.01	163	0.24	237	0.20
49	0.34	108	2.42	165	0.96	242	0.34
50	14.43	109	1.49	166	0.47	244	6.49
51	59.16	110	37.75	167	4.43	245	0.80
52	3.08	111	5.70	168	2.63	246	1.28
53	0.45	112	0.53	169	0.53	249	0.21
55	2.30	113	0.34	170	0.21	253	0.40
56	2.79	115	0.30	172	0.40	255	37.16
57	6.51	116	0.56	173	0.60	256	4.89
58	0.42	117	7.98	174	0.61	257	0.40
59	0.47	118	0.73	175	1.53	258	1.98
61	0.66	119	0.62	176	0.30	259	0.32
62	0.68	121	0.57	177	0.93	265	0.54
63	2.08	122	0.90	178	0.26	267	0.25
64	0.44	123	2.02	179	3.29	273	1.25
65	1.81	124	0.73	180	2.43	274	3.24
66	0.45	125	1.18	181	0.99	275	16.65
67	1.41	127	54.49	185	1.51	276	2.36
69	69.75	128	3.98	186	12.61	277	1.33
70	0.98	129	21.86	187	4.20	278	0.25
71	1.31	130	2.17	188	0.80	281	1.65
73	6.91	131	0.56	189	0.61	282	0.34
74	5.72	132	0.35	191	0.49	283	0.49
75	9.62	133	0.57	192	0.91	284	0.22
76	3.34	134	0.87	193	1.08	293	0.28
77	62.57	135	5.32	195	0.49	296	3.84
78	5.20	136	0.98	196	1.72	297	0.40
79	3.87	137	1.13	197	0.72	315	0.34
80	2.76	138	0.23	198	100.00	323	1.14
81	5.36	139	0.22	199	6.95	327	0.43
82	1.72	141	2.31	203	0.39	334	0.62
83	2.68	142	0.95	204	2.81	335	0.29
84	0.50	143	0.64	205	4.62	341	0.32
85	1.54	145	0.33	206	19.61	354	0.21
86	1.05	146	0.37	207	4.27	355	1.00
87	0.62	147	3.82	208	0.76	357	0.27
91	2.06	148	2.55	209	0.82	365	1.39
92	1.45	149	1.37	210	0.40	372	0.25
93	4.97	150	0.26	211	0.82	403	0.23
94	0.71	151	0.70	217	4.40	423	2.44
95	1.53	152	0.19	218	0.67	424	0.27
96	1.11	153	0.76	221	6.51	429	0.58
97	1.73	154	0.55	222	0.68	441	5.29 ✓
98	3.60	155	1.01	223	1.30	442	41.76 ✓
99	3.97	156	1.87	224	9.26	443	7.85 ✓
100	0.26	157	0.49	225	2.20	444	0.59

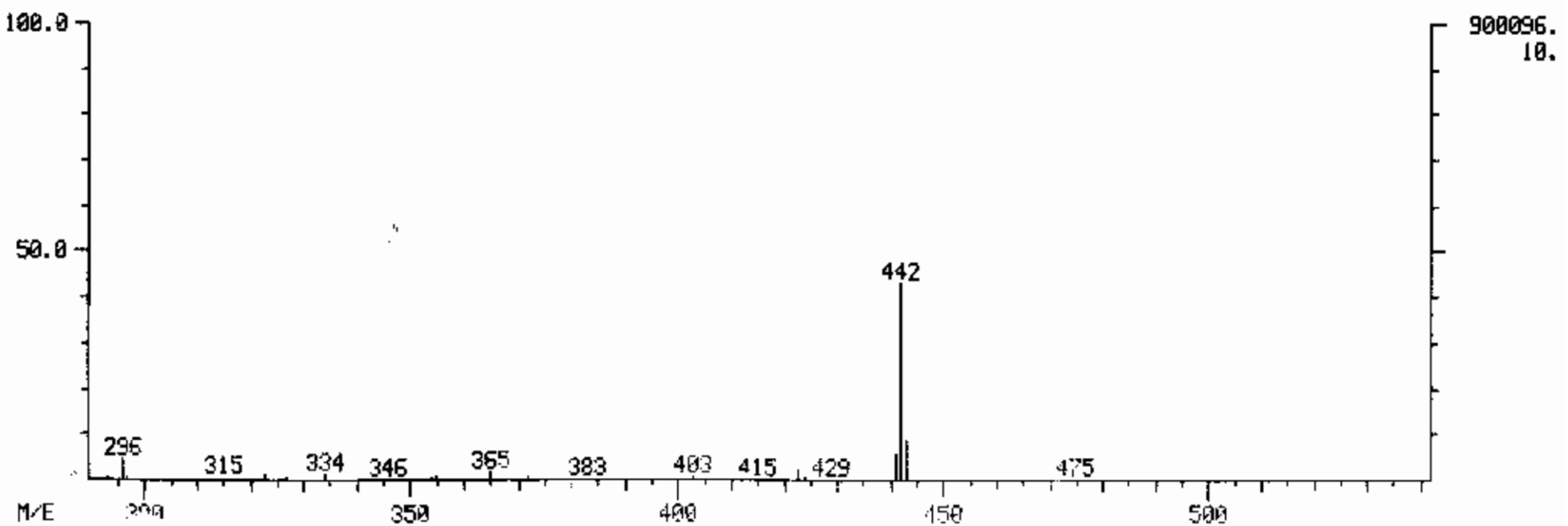
COMPUCHEM LABS

MASS SPECTRUM
05/19/85 7:14:00 + 4:12
SAMPLE: 1 UL 14650-#7050 DFTPP EXP 5-25-85
#270

DATA: DH850519A15 #270

BASE M/E: 190
RIC: 7167990.





COMPUCHEM LABS

MASS LIST DATA: DHS50519A15 # 278 BASE M/E: 198
05/19/85 7:14:00 + 4:12 RIC: 7167990.
SAMPLE: 1 UL 14658-#7050 DFTPP EXP 5-25-85
#278

41 0.00 MINIMA MIN INTEN: 1880. MAX INTEN: 900096.
475 # 0 MAXIMA

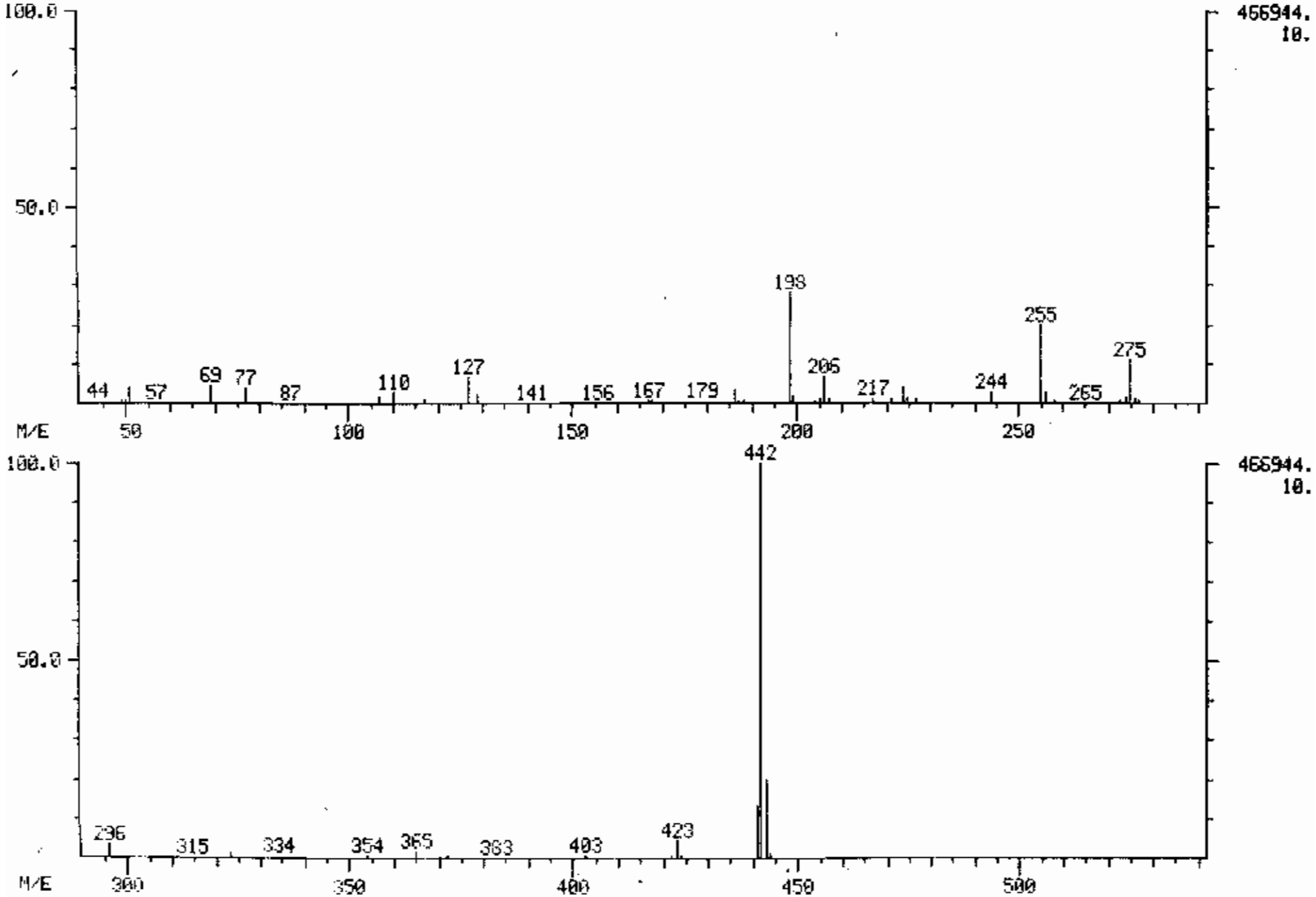
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	2.00	105	1.29	161	0.98	227	4.20
42	0.32	106	0.36	162	0.25	228	0.50
43	1.60	107	13.67	163	0.21	229	0.88
44	2.08	108	2.24	165	0.85	231	0.27
45	0.21	109	0.85	166	0.55	235	0.32
49	0.38	110	33.96	167	4.16	236	0.27
50	11.68	111	5.49	168	2.07	237	0.25
51	45.56	112	0.80	169	0.47	242	0.35
52	2.30	113	0.23	172	0.30	243	0.33
53	0.35	116	0.55	173	0.34	244	7.14
55	1.78	117	7.22	174	0.94	245	0.93
56	1.66	118	0.80	175	1.60	246	1.46
57	5.30	119	0.30	176	0.36	247	0.26
58	0.34	120	0.26	177	0.87	249	0.25
61	0.53	121	0.22	178	0.30	255	37.94
62	0.42	122	0.89	179	2.65	256	5.33
63	1.75	123	1.51	180	1.89	257	0.42
64	0.23	124	0.49	181	1.03	258	1.62
65	1.05	125	0.79	182	0.24	265	0.64
67	0.73	127	52.62	185	1.38	273	1.02
69	56.20	128	4.00	186	11.45	274	3.41
70	0.44	129	20.99	187	3.51	275	17.55
71	0.84	130	1.67	188	0.45	276	2.53
73	3.05	131	0.39	189	0.51	277	1.46
74	3.92	132	0.21	191	0.51	278	0.30
75	7.58	133	0.29	192	1.01	281	0.46
76	2.53	134	0.59	193	1.05	283	0.26
77	51.65	135	3.26	194	0.25	285	0.30
78	4.00	136	0.88	196	2.20	293	0.32
79	3.59	137	1.11	198	100.00	296	4.39
80	2.31	138	0.22	199	7.24	297	0.66
81	4.29	141	2.24	200	0.47	303	0.55
82	1.27	142	0.91	202	0.47	315	0.38
83	1.83	143	0.71	203	0.49	323	1.35
84	0.30	144	0.28	204	2.64	327	0.32
85	0.82	145	0.28	205	4.79	334	0.90
86	0.73	146	0.29	206	18.80	335	0.22
87	0.45	147	2.02	207	3.63	341	0.26
91	1.27	148	2.16	208	0.94	352	0.26
92	1.00	149	0.87	209	0.62	353	0.25
93	4.35	150	0.22	210	0.44	354	0.58
94	0.44	151	0.25	211	1.04	355	0.50
95	1.04	153	0.71	216	0.30	365	1.65
96	0.71	154	0.33	217	4.52	372	0.64
97	0.86	155	1.12	218	0.61	403	0.33
98	3.18	156	1.73	221	4.90	423	2.42
99	3.37	157	0.74	222	0.91	424	0.45
101	1.94	158	0.36	223	1.03	441	5.62
103	0.75	159	0.35	224	9.87	442	42.72
104	0.96	160	0.79	225	2.69	443	8.40

COMPUCHEM LABS

MASS SPECTRUM
05/21/85 17:02:00 + 4:33
SAMPLE: IUL 14658-7050

DATA: DH850521B22 #290

BASE M/E: 442
RIC: 1290230.



COMPUCHEM LABS

MASS LIST DATA: DH850521B22 # 298 BASE M/E: 198

05.21.85 17:02:00 + 4:33 RIC: 6307830.

SAMPLE: 1UL 14658-7050

298 TO #299 SUMMED

41 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 846848.

444 # 0 MAXIMA

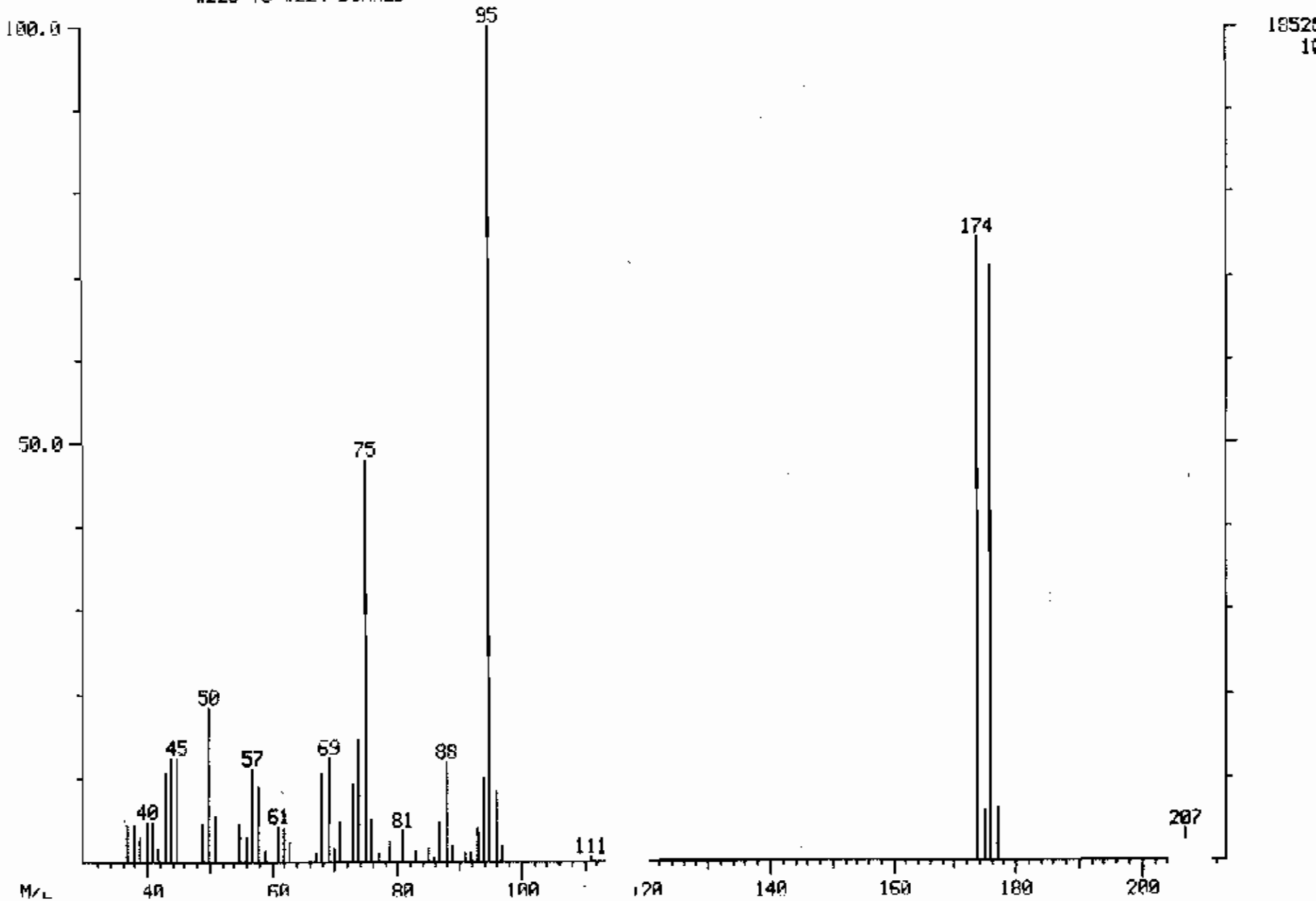
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	0.23	111	3.36	180	1.60	257	0.06
43	0.28	112	0.30	181	0.70	258	2.25
44	0.38	113	0.09	184	0.15	265	0.91
47	0.13	116	0.15	185	1.28	266	0.07
49	0.26	117	8.63	186	13.47	273	1.21
50	10.28	118	0.39	187	3.67	274	4.38
51	36.82	120	0.08	188	0.94	275	22.16
52	1.74	122	0.28	189	0.43	276	2.71
55	0.15	123	1.00	191	0.11	277	1.45
56	0.87	124	0.35	192	0.64	283	0.03
57	2.49	125	0.28	193	0.79	285	0.09
61	0.22	127	41.60	194	0.06	292	0.06
62	0.34	128	2.92	196	1.70	293	0.20
63	1.07	129	17.17	198	100.00	296	5.60
65	0.60	130	1.35	199	6.05	297	0.28
66	0.16	131	0.21	200	0.21	303	0.33
67	0.07	134	0.31	202	0.19	304	0.05
69	40.21	135	1.13	203	0.30	315	0.34
70	0.07	136	0.30	204	2.76	316	0.09
73	0.19	137	0.54	205	5.06	323	2.04
74	2.80	140	0.05	206	21.22	324	0.15
75	5.28	141	1.66	207	3.26	327	0.04
76	1.82	142	0.52	208	0.45	334	1.06
77	35.55	143	0.24	209	0.08	335	0.13
78	2.23	146	0.11	210	0.34	341	0.06
79	1.84	147	0.97	211	0.54	352	0.20
80	1.81	148	1.68	215	0.04	353	0.25
81	2.43	149	0.40	216	0.08	354	0.48
82	0.49	151	0.21	217	4.92	355	0.09
83	0.36	153	0.36	218	0.31	365	2.09
84	0.10	154	0.32	221	4.45	366	0.00
85	0.18	155	0.94	223	0.93	372	0.93
86	0.53	156	1.82	224	11.74	373	0.03
87	0.32	157	0.17	225	2.59	383	0.10
88	0.09	158	0.14	227	4.38	402	0.18
91	0.48	159	0.08	228	0.29	403	0.56
92	0.57	160	0.62	229	0.70	404	0.06
93	3.66	161	0.84	231	0.14	421	0.26
94	0.10	162	0.07	234	0.09	422	0.32
98	2.64	164	0.03	235	0.08	423	4.40
99	2.53	165	0.57	237	0.15	424	0.63
101	1.23	167	4.29	239	0.05	441	12.00
103	0.25	168	1.82	242	0.32	442	91.54
104	0.60	169	0.24	243	0.07	443	17.17
105	0.55	173	0.29	244	7.94	444	1.11
106	0.11	174	0.49	245	8.80		
107	14.25	175	1.45	246	1.35		
108	1.69	176	0.13	247	0.14		
109	0.03	177	0.40	255	48.61		
110	23.25	179	2.46	256	6.93		

COMPUCHEM LABS

MASS SPECTRUM
05/07/85 4:24:00 + 11:20
SAMPLE: 2ULOF BFB#14541(7008)
#223 TO #224 SUMMED

DATA: BF050507C11 #223

BASE M/E: 95
RIC: 101760.



COMPUCHEM LABS

M^96 LIST DATA: BF850507C11 # 223 BASE M/E: 95
07/85 4:24:00 + 11:20 RIC: 101760.
SAMPLE: 2ULOF BFB#14541(700B)
#223 TO #224 SUMMED

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 18528.
207 # 0 MAXIMA

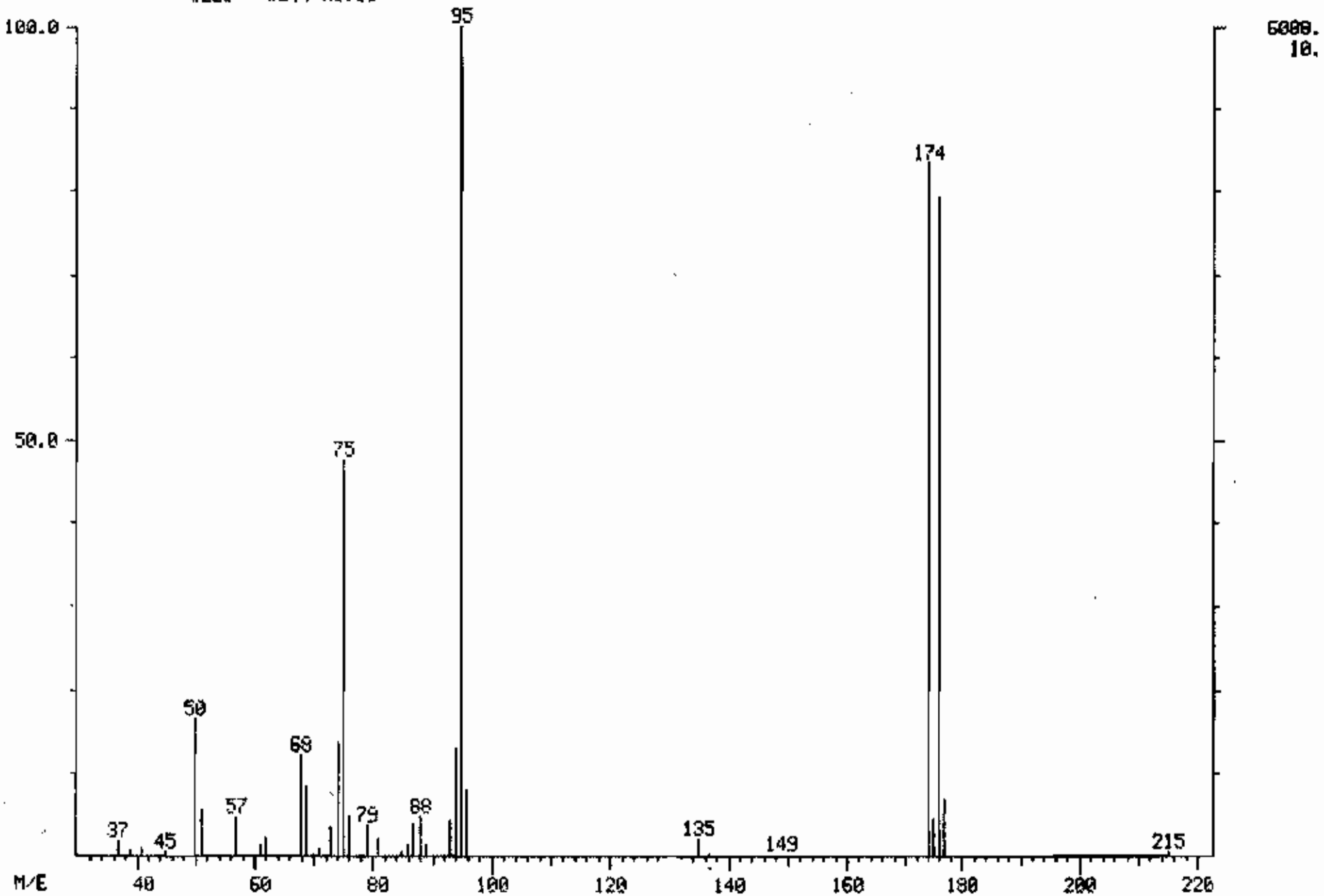
MASS	% RA	MASS	% RA
37	4.35	207	3.59
38	4.38		
39	2.90		
40	4.84		
41	4.64		
42	1.52		
43	10.60		
44	12.22		
45	12.44		
49	4.45		
50	18.20		
51	5.58		
55	4.39		
56	2.96		
57	11.00		
58	8.89		
59	1.36		
61	4.08		
62	3.91		
63	2.26		
67	1.07		
68	10.38		
69	12.26		
70	1.49		
71	4.66		
73	9.13		
74	14.40		
75	48.01		
76	5.04		
77	0.97		
79	2.40		
81	3.73		
83	1.37		
85	1.58		
86	0.44		
87	4.84		
88	11.90		
89	1.88		
91	1.12		
92	0.96		
93	3.81		
94	9.82		
95	100.00		
96	8.32		
97	1.92		
111	0.55		
174	74.61		
175	6.02		
176	71.33		
177	6.24		

COMPUCHEM LABS

MASS SPECTRUM
05/07/85 9:02:00 + 11:26
SAMPLE: 2UL OF BFB#14541(7006)
#225 - #244 X1.00

DATA: BF850507C12 #225

BASE M/E: 95
RIC: 27104.

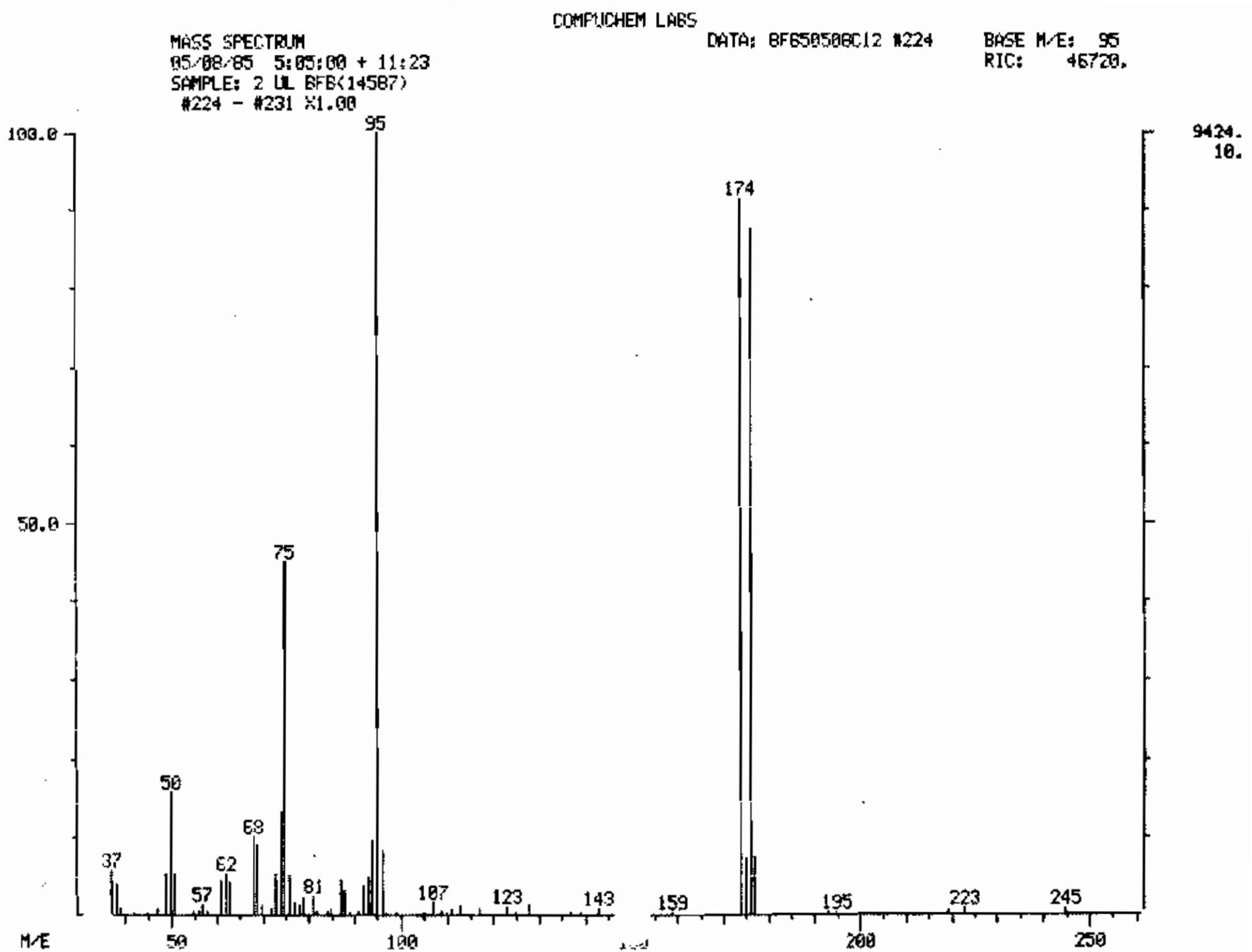


COMPUCHEM LABS

MASS LIST DATA: BF850507C12 # 225 BASE M/E: 95
05/07/85 9:02:00 + 11:26 RIC: 27104.
SAMPLE: 2UL OF BFB#14541(7008)
35 - #244 X1.00

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 6088.
215 # 0 MAXIMA

MASS	% RA
37	1.74
39	0.71
41	1.07
45	0.48
50	16.39
51	5.52
55	0.13
57	4.78
61	1.30
62	1.97
68	12.17
69	8.33
71	0.90
73	3.53
74	13.60
75	47.63
76	4.63
79	3.56
81	2.20
85	0.62
86	1.30
87	3.83
88	4.83
89	1.26
93	4.07
94	12.80
95	100.00
96	7.95
109	0.10
135	2.05
137	0.25
149	0.34
174	83.44
175	4.50
176	79.37
177	6.69
215	0.39


COMPUCHEM LABS
MASS SPECTRUM
05/08/85 5:05:00 + 11:23
SAMPLE: 2 UL BFB(14587)
#224 - #231 X1.00
DATA: BFB50508C12 #224
BASE M/E: 95
RIC: 46720.
100.0
50.0
9424.
10.
95
174
75
50
69
37
62
57
81
107
123
143
159
195
223
245
M/E
50
100
200
250

MASS LIST DATA: BF850508C12 # 224 BASE M/E: 95
05/08/85 5:05:00 + 11:23 RIC: 46720.
SAMPLE: 2 UL 8FB(14587)
224 - #231 X1.00

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 9424.
253 # 0 MAXIMA

MASS	% RA	MASS	% RA
37	5.87	111	0.86
38	4.05	113	0.98
39	0.75	117	0.83
42	0.21	119	0.08
43	0.03	123	1.16
45	0.22	125	0.36
47	0.84	128	1.27
49	5.18	135	0.07
50	15.73	137	0.14
51	5.23	139	0.35
55	0.50	143	0.89
56	0.49	159	0.23
57	1.20	165	0.23
58	0.63	174	91.34
59	0.03	175	7.18
61	4.41	176	87.44
62	5.11	177	7.41
63	4.24	187	0.05
67	0.35	193	0.21
68	9.84	195	0.23
69	9.03	219	0.62
70	1.21	223	0.84
72	0.71	245	0.87
73	5.11	253	0.08
74	13.20		
75	44.91		
76	4.88		
77	1.58		
78	1.20		
79	2.12		
80	0.11		
81	2.32		
82	0.54		
84	0.60		
85	8.89		
87	4.36		
88	3.20		
89	0.31		
91	0.60		
92	3.59		
93	4.70		
94	9.33		
95	100.00		
96	8.20		
97	0.19		
99	0.30		
05	0.20		
107	1.53		
109	0.58		
110	0.34		

ronmental Protection Agency, CLP Sample Management Office
Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CC850508C12
Sample matrix: solid
Data Release
Authorized By: _____

Case:
QC Report No: _____
Contract No: 68-01-7017
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed:
Conc/Dil Factor: 1.00 pH:
Percent moisture: 0%
Percent moisture (decanted):

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.6	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	6.0	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

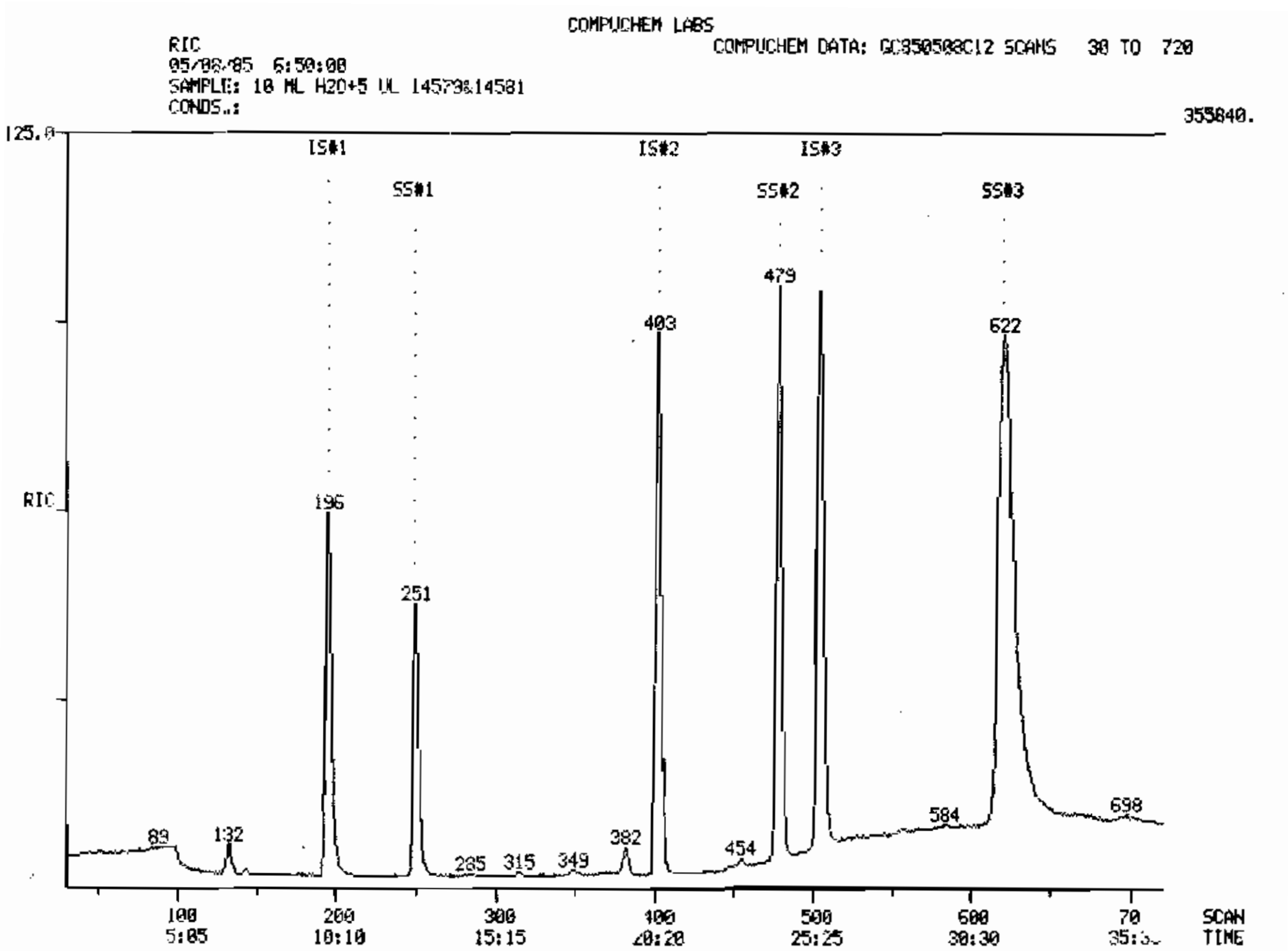
Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				


COMPUCHEM LABS
RIC
05/08/85 6:50:00
SAMPLE: 10 ML H20+5 UL 14573&14581
CONDS.:
COMPUCHEM DATA: QC850508C12 SCANS 30 TO 720
355840.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
403
622
RIC
196
251
89
132
285
315
349
382
454
584
698
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
70
35:
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 9/08/85 7:28:13
DATA FILE: CC850508C12
REFERENCE: E238
METHOD: E238 INITIALIIATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	T	1	38	E238S/EE38U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E5	1	-197	196	196	.	1	936	.	128	196	.	1
2	E6	1	-403	403	403	.	1	994	.	114	403	.	1
3	E7	1	-505	505	505	.	1	976	.	117	505	.	1
4	E5	2	-36	36	.	.	.	.	.	50	.	.	.
5	E5	3	-55	55	.	.	.	.	.	94	.	.	.
6	E5	4	-70	70	.	.	.	.	.	62	.	.	.
7	E5	5	-90	90	.	.	.	.	.	64	.	.	.
8	E5	6	-133	133	133	.	1	950	.	84	132	-1	1
9	E5	7	-144	144	.	.	.	.	.	43	144	.	1
10	E5	8	-164	164	.	.	.	.	.	76	164	.	1
11	E5	9	-187	187	.	.	.	.	.	96	.	.	.
12	E5	10	-213	213	.	.	.	.	.	63	.	.	.
13	E5	11	-227	227	.	.	.	.	.	96	.	.	.
14	E5	12	-238	238	.	.	.	.	.	83	.	.	.
15	E5	13	-253	253	.	.	.	.	.	62	.	.	.
[illegible]	E6	2	-251	251	.	.	.	.	.	72	251	.	1
	E6	3	-280	280	.	.	.	.	.	97	.	.	.
18	E6	4	-288	288	.	.	.	.	.	117	.	.	.
19	E6	5	-289	289	.	.	.	.	.	43	.	.	.
20	E6	6	-297	297	.	.	.	.	.	83	.	.	.
21	E6	7	-325	325	.	.	.	.	.	63	.	.	.
22	E6	8	-330	330	.	.	.	.	.	75	.	.	.
23	E6	9	-341	341	.	.	.	.	.	130	.	.	.
24	E6	10	-353	353	.	.	.	.	.	129	.	.	.
25	E6	11	-355	355	.	.	.	.	.	97	.	.	.
26	E6	12	-352	352	.	.	.	.	.	78	353	.	1
27	E6	13	-356	356	.	.	.	.	.	75	.	.	.
28	E6	14	-377	377	.	.	.	.	.	63	.	.	.
29	E6	15	-407	407	.	.	.	.	.	173	408	.	1
30	E7	2	-418	418	.	.	.	.	.	43	418	.	2
31	E7	3	-450	450	.	.	.	.	.	43	450	.	2
32	E7	4	-455	455	.	.	.	.	.	164	.	.	.
33	E7	5	-454	454	.	.	.	.	.	83	454	.	2
34	E7	6	-483	483	.	.	.	.	.	92	482	.	1
35	E7	7	-508	508	.	.	.	.	.	112	508	.	1
36	E7	8	-557	557	.	.	.	.	.	106	556	.	2
37	E7	9	-661	661	.	.	.	.	.	104	661	.	3
38	E7	10	-670	670	.	.	.	.	.	106	669	.	2
39	E7	11	-670	670	.	.	.	.	.	106	669	.	2
40	E8	2	-251	251	250	-1	1	985	.	65	250	.	1
41	E8	3	-622	622	621	-1	1	988	.	95	621	.	1
	E8	4	-479	479	479	.	1	991	.	98	478	-1	1

QUANTITATION REPORT FILE: GCB50508C12

DATA: GCB50508C12.TI
C '08/85 6:50:00
SAMPLE: 10 ML H20+5 UL 14579&14581
CONOS. :
SUBMITTED BY: 12 ANALYST: 812

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
	25T VINYL ACETATE
	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
2T	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	196	9:58	1	1.000	A BV	116525.	50.000 UG/KG	15.47
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	132	6:43	1	0.673	A BB	140179.	4.683	UG/KG	1.45
7	43	144	7:19	1	0.735	A BV	6869.	6.081	UG/KG	1.88
8	76	164	8:20	1	0.837	A BB	824.	0.108	UG/KG	0.03
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	403	20:29	14	1.000	A BB	423788.	50.000	UG/KG	15.47
15	72	251	12:46	14	0.623	A BB	2628.	5.215	UG/KG	1.61
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	353	17:57	14	0.876	A BV	4196.	0.692	UG/KG	0.21
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	408	20:44	14	1.012	A BB	350.	0.059	UG/KG	0.02
29	117	505	25:40	29	1.000	A BB	403579.	50.000	UG/KG	15.47
30	43	418	21:15	29	0.828	A*VV	3186.	0.693	UG/KG	0.21
	43	450	22:52	29	0.891	A*VV	2012.	0.551	UG/KG	0.17
32	164	NOT FOUND								
33	83	454	23:05	29	0.899	A*BV	1331.	0.248	UG/KG	0.08
34	92	482	24:30	29	0.954	A BB	1055.	0.223	UG/KG	0.07
35	112	508	25:49	29	1.006	A BB	807.	0.107	UG/KG	0.03
36	106	556	28:16	29	1.101	A*BB	360.	0.089	UG/KG	0.03
37	104	661	33:36	29	1.309	A*BV	2184.	0.215	UG/KG	0.07
38	106	669	34:00	29	1.325	A*BB	971.	0.168	UG/KG	0.05
39	106	669	34:00	29	1.325	A*BB	971.	0.335	UG/KG	0.10
40	65	250	12:42	1	1.276	A BV	200269.	51.058	UG/KG	15.80
41	95	621	31:34	29	1.230	A BB	331128.	51.008	UG/KG	15.79
42	98	478	24:18	1	2.439	A BV	401670.	51.603	UG/KG	15.97

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50		10.000			50.00		1.072	
3	2:48		10.000			50.00		1.438	
4	3:33		10.000			50.00		1.232	
5	4:34		10.000			50.00		0.618	
6	6:46	0.99	5.000	0.13	4.69	50.00	0.121	1.289	0.09
7	7:19	1.00	10.000	0.07	6.08	50.00	0.059	0.485	0.12
8	8:20	1.00	5.000	0.17	0.11	50.00	0.007	3.281	0.00
9	9:30		5.000			50.00		1.104	
10	10:50		5.000			50.00		1.976	
11	11:32		5.000			50.00		1.157	
	12:06		5.000			50.00		2.611	
	12:52		5.000			50.00		1.771	
14	20:29	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	5.21	50.00	0.006	0.059	0.10
16	14:14		5.000			50.00		0.595	
	14:38		5.000			50.00		0.642	
18	14:41		10.000			50.00		0.491	
19	15:06		5.000			50.00		0.643	
20	16:31		5.000			50.00		0.347	
21	16:46		5.000			50.00		0.240	
22	17:20		5.000			50.00		0.512	
23	17:57		5.000			50.00		0.595	
24	18:03		5.000			50.00		0.330	
25	17:54	1.00	5.000	0.18	0.69	50.00	0.010	0.712	0.01
26	18:06		5.000			50.00		0.684	
27	19:10		10.000			50.00		0.232	
28	20:41	1.00	5.000	0.20	0.06	50.00	0.001	0.696	0.00
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.00	10.000	0.08	0.69	50.00	0.008	0.569	0.01
31	22:52	1.00	10.000	0.09	0.55	50.00	0.005	0.452	0.01
32	23:08		5.000			50.00		0.619	
33	23:05	1.00	5.000	0.18	0.25	50.00	0.003	0.666	0.00
34	24:33	1.00	5.000	0.19	0.22	50.00	0.003	0.587	0.00
35	25:49	1.00	5.000	0.20	0.11	50.00	0.002	0.931	0.00
36	28:19	1.00	5.000	0.22	0.09	50.00	0.001	0.501	0.00
37	33:36	1.00	5.000	0.26	0.22	50.00	0.005	1.257	0.00
38	34:03	1.00	5.000	0.26	0.17	50.00	0.002	0.717	0.00
39	34:03	1.00	5.000	0.26	0.34	100.00	0.001	0.359	0.00
40	12:46	1.00	10.000	0.13	51.06	50.00	1.719	1.683	1.02
41	31:37	1.00	10.000	0.12	51.01	50.00	0.820	0.804	1.02
42	24:21	1.00	10.000	0.24	51.60	50.00	3.447	3.340	1.03

Internal Standard Area Monitor

Method: 5238 Filename: GC850508C12 Date: 05/08/85
Shift Std: GS850508C12 Time: 6:50

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	116324.	104753.	11.	Pass
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	425787.	387406.	10.	Pass
* D5 CHLOROBENZENE(INTERNAL STANDARD)	403579.	360445.	12.	Pass

Volatile - Low Level Solid

No	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detection Limit (ug/kg)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.6		J	5.0
7	252	___	ACETONE (2-PROPANONE)	6.0		J	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLORDETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE	5.2		BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
	203	___	BENZENE			BDL	5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/241	___	O- & P-XYLENE			BDL	5.0

Volatile - Low Level Solid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	51.0	50.0	102.0	50-160	X	
41		BROMOFLUOROBENZENE	51.0	50.0	102.0	50-160	X	
42		D8-TOLUENE	51.6	50.0	103.0	50-160	X	

* Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	✓	

Correction Factor Calculation:

$$\frac{5.0\ g}{\text{Wet Weight of Sample (g)}} \times \text{GC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ g}{5.0\ (g)} \times \frac{1.0}{1.0} \times \frac{1.0}{1.0} = 1.000$$

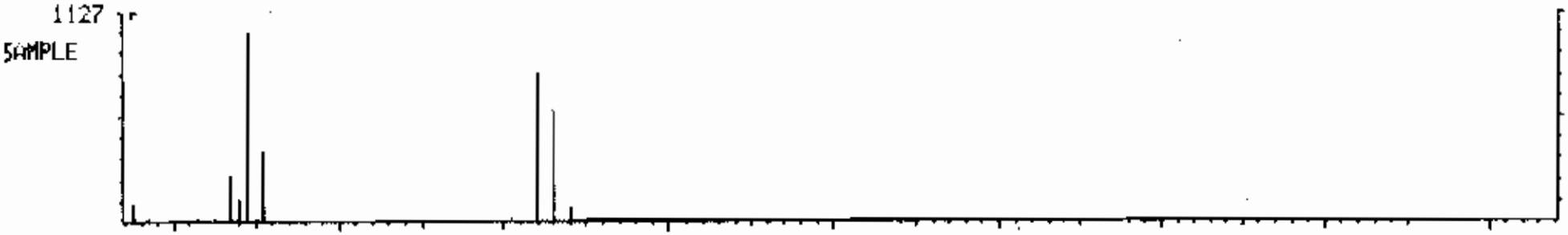
Quant Report aHount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

COMPUCHEM LABS

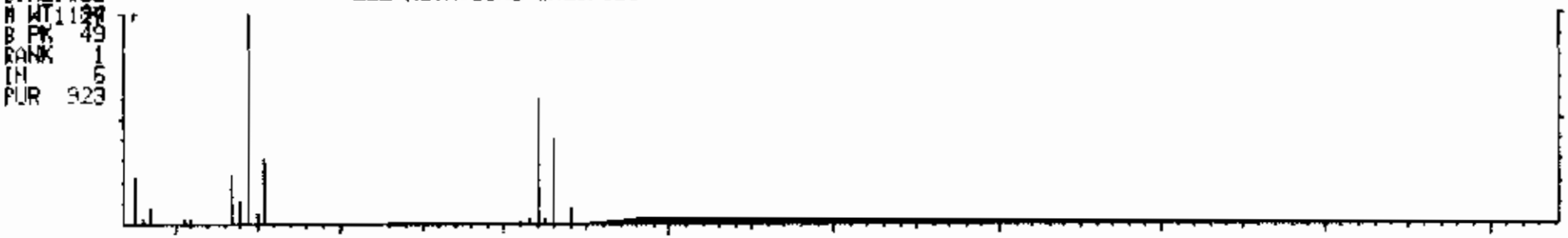
LIBRARY SEARCH
05/06/85 6:50:00 + 5:43
SAMPLE: 10 ML H2O+5 UL 14579&14581
ENHANCED (S 15B 2N 0T)

DATA: GC850508C12 # 132 BASE M/E: 49
RIC: 13455.

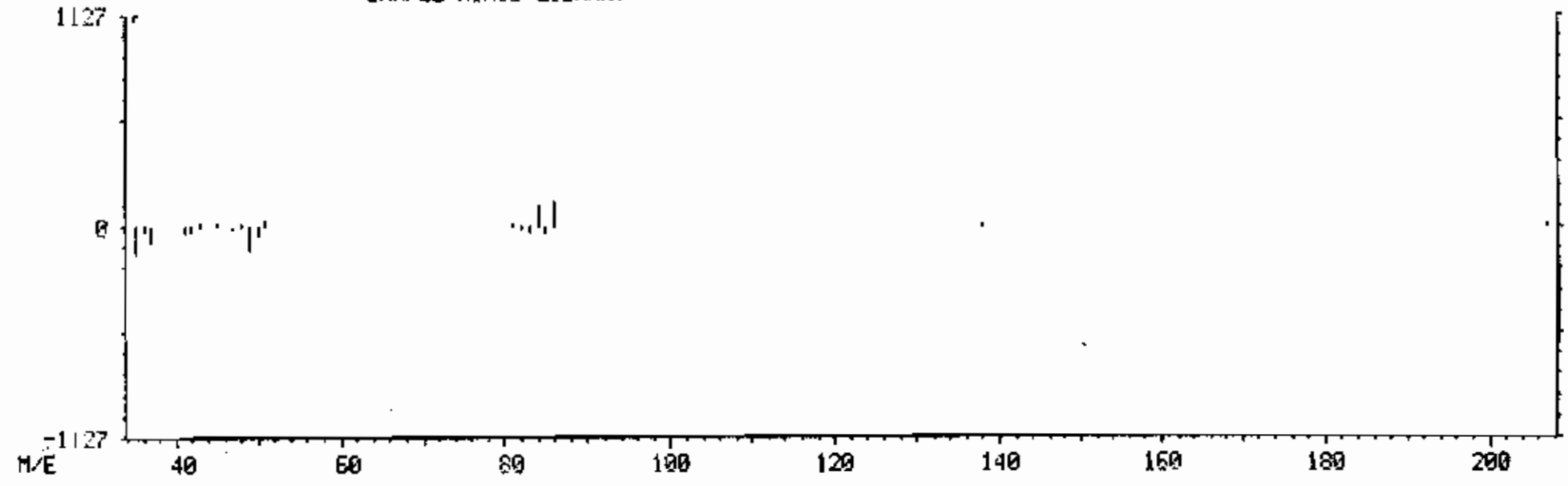


222 METHYLENE CHLORIDE

C.H2.CL2
M WT 112
B PK 49
RANK 1
IN 6
PUR 923



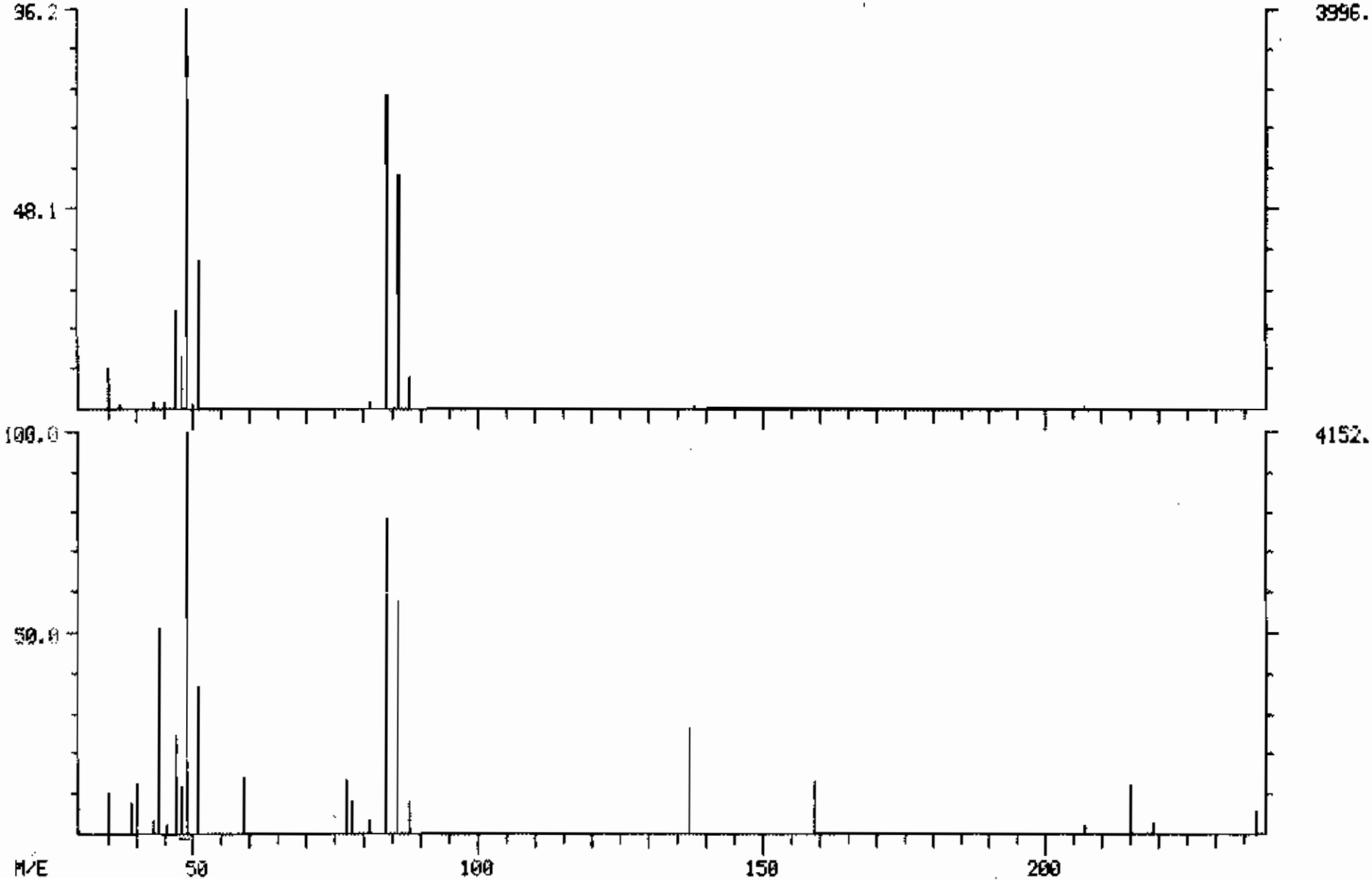
SAMPLE MINUS LIBRARY



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/08/85 6:50:00 + 5:43
SAMPLE: 10 ML H20+5 UL 14579&14581
ENHANCED (S 15B 2H)

DATA: GC850508C12 #132 BASE M/E: 49/ 49
RIC: 13455./ 20635.

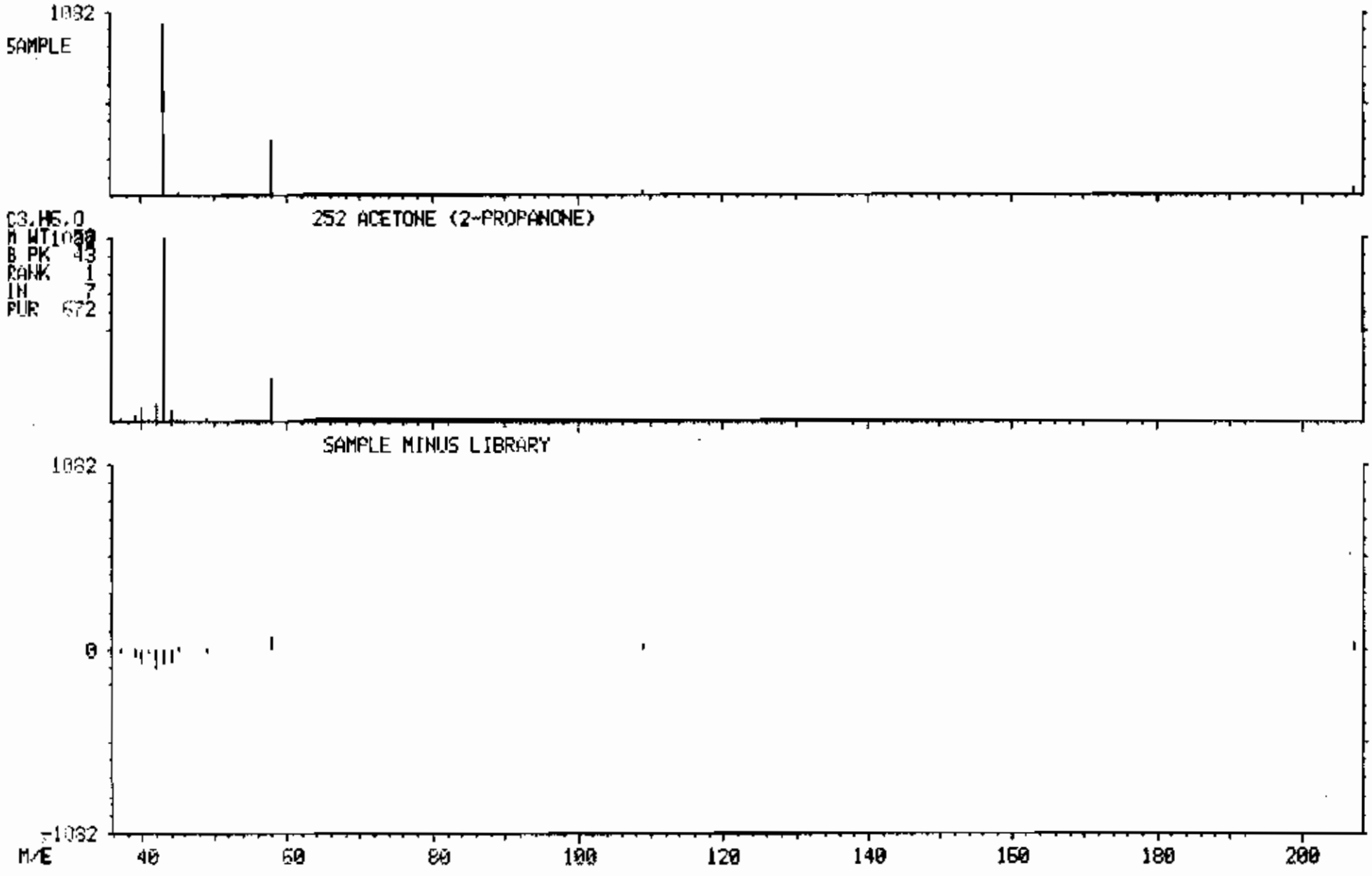


COMPUCHEM LABS

LIBRARY SEARCH
05/08/85 6:50:00 + 7:19
SAMPLE: 10 ML H20+5 UL 14579&14581
ENHANCED (S 15B 2N 0T)

DATA: GC850508C12 # 144

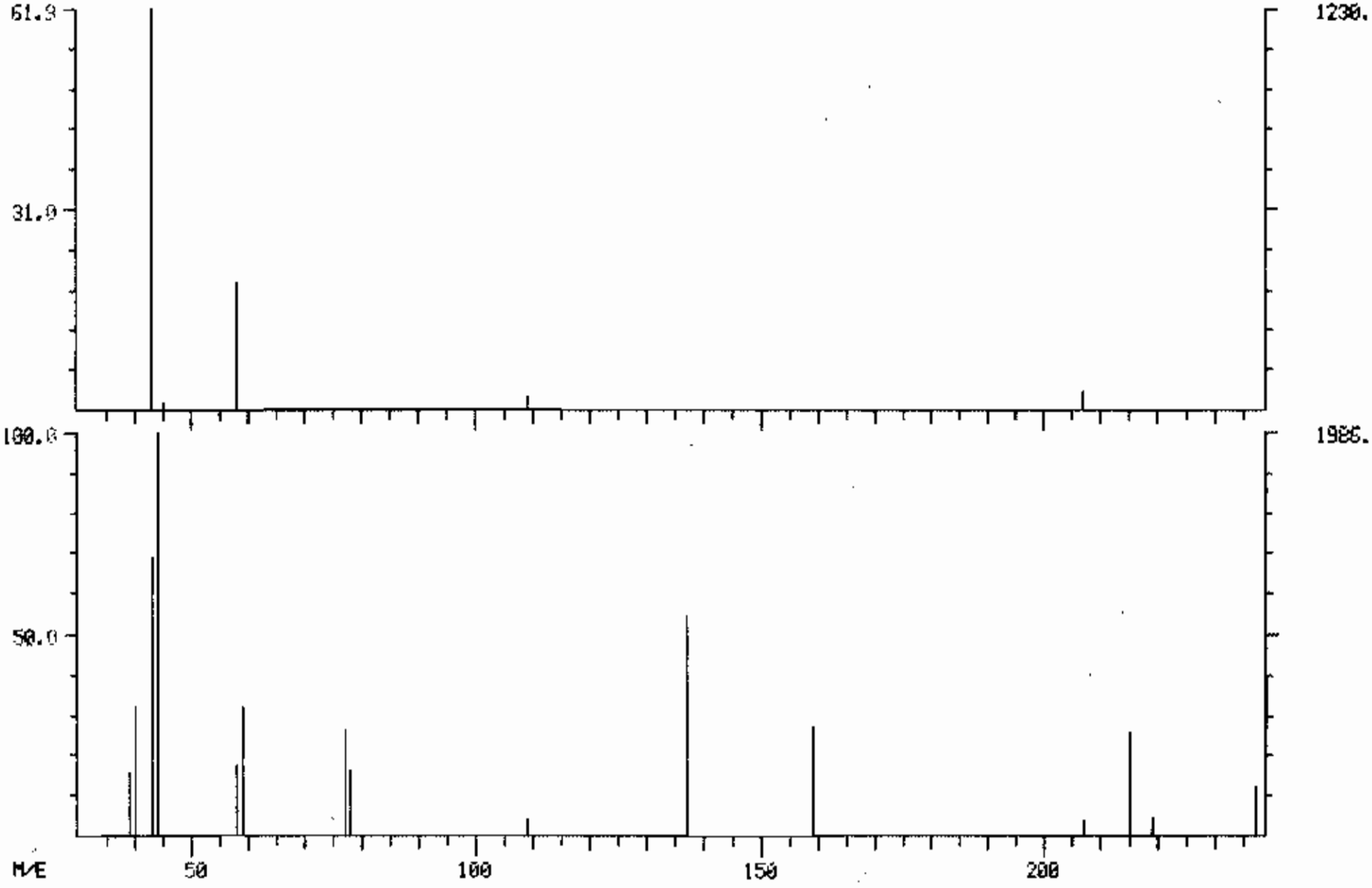
BASE M/E: 43
RIC: 1737.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/08/85 6:50:00 + 7:19
SAMPLE: 10 ML H2O+5 UL 14579&14581
ENHANCED (5 15& 2H)

DATA: GC850508C12 #144 BASE M/E: 43/ 44
RIC: 1737./ 8735.



·onmental Protection Agency, CLP Sample Management Office
Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: 6B850507A12
Sample matrix: solid
Data Release
Authorized By: _____

Case:
QC Report No: _____
Contract No: 68-01-7017
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed:
Conc/Dil Factor: 1.00
Percent moisture: 0%
Percent moisture (decanted):
pH:

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	7.1		79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/ dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides)/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/ probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

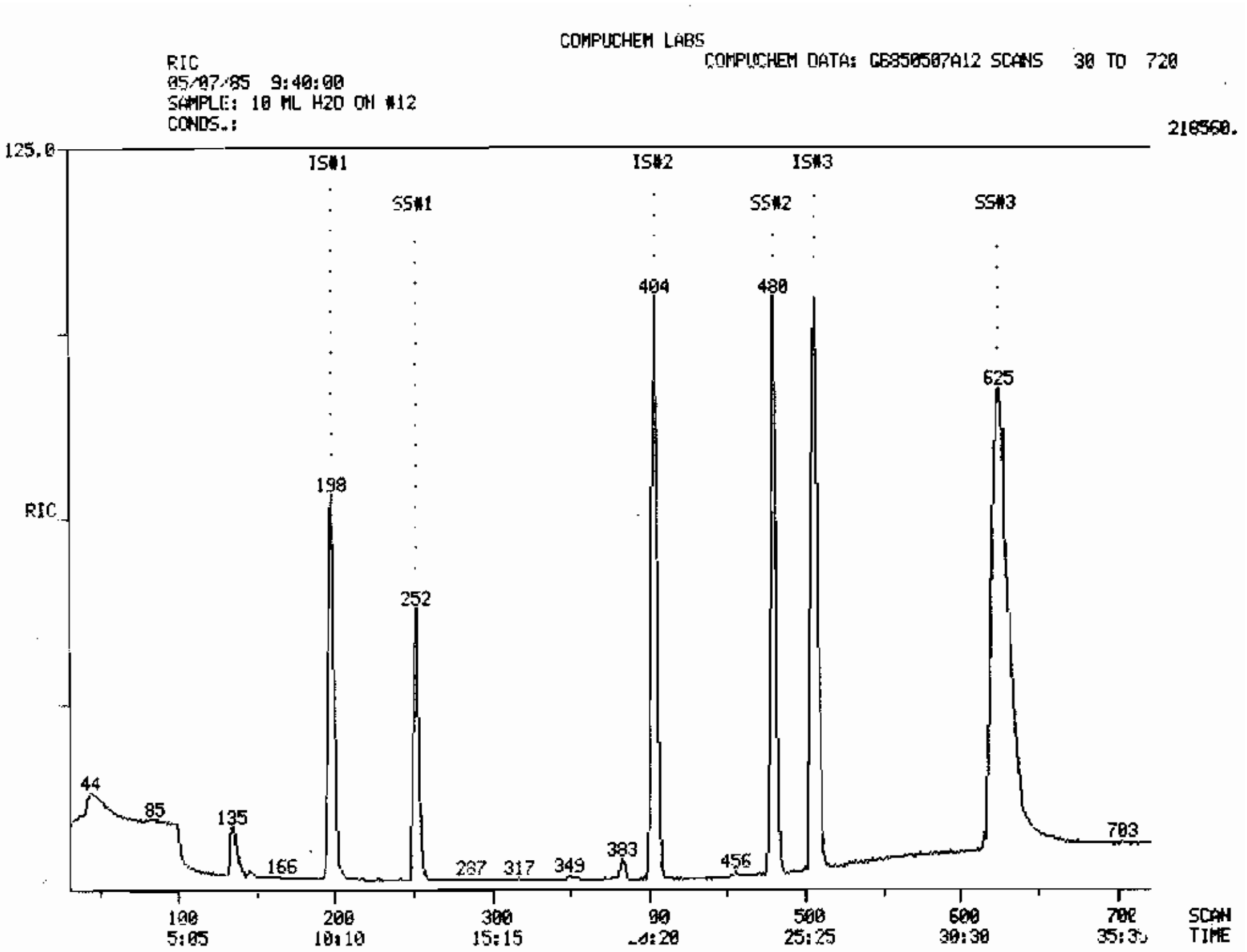
Environmental Protection Agency. CLP Sample Management Office.
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
COMPUCHEM DATA: GC850507A12 SCANS 30 TO 720
RIC
05/07/85 9:40:00
SAMPLE: 10 ML H2O ON #12
CONDS.:
218560.
125.0
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
404
480
198
625
252
RIC
44
85
135
166
287
317
349
383
456
703
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
SCAN
TIME

PROCEDURE: RK DIACNOSTIC REPORT 5/07/85 10:21:30
DATA FILE: G8850507A12
REFERENCE: E238
METHOD: E238 INITIALIIATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDAROS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	6	1	192	E238S/E238U

42 COMPOUNDS PROCESSED, 6 FOUNO

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E5	1	-193	198	198	.	1	941	.	128	198	.	1
2	E6	1	-398	404	404	.	1	990	.	114	404	.	1
3	E7	1	-499	506	506	.	1	982	.	117	506	.	1
4	E5	2	-37	39	.	.	.	.	.	50	.	.	.
5	E5	3	-56	58	.	.	.	.	.	94	.	.	.
6	E5	4	-72	75	.	.	.	.	.	62	.	.	.
7	E5	5	-90	93	.	.	.	.	.	64	.	.	.
8	E5	6	-131	134	.	.	.	.	.	84	135	.	1
9	E5	7	-142	146	.	.	.	.	.	43	146	.	1
10	E5	8	-160	164	.	.	.	.	.	76	166	.	1
11	E5	9	-183	187	.	.	.	.	.	96	.	.	.
12	E5	10	-209	214	.	.	.	.	.	63	.	.	.
13	E5	11	-223	228	.	.	.	.	.	96	.	.	.
14	E5	12	-234	239	.	.	.	.	.	83	.	.	.
15	E5	13	-248	253	.	.	.	.	.	62	.	.	.
4	E6	2	-246	251	.	.	.	.	.	72	252	.	1
.	E6	3	-275	280	.	.	.	.	.	97	.	.	.
18	E6	4	-283	289	.	.	.	.	.	117	.	.	.
19	E6	5	-284	290	.	.	.	.	.	43	.	.	.
20	E6	6	-292	298	.	.	.	.	.	83	.	.	.
21	E6	7	-320	326	.	.	.	.	.	63	.	.	.
22	E6	8	-325	331	.	.	.	.	.	75	.	.	.
23	E6	9	-336	342	.	.	.	.	.	130	.	.	.
24	E6	10	-348	355	.	.	.	.	.	129	.	.	.
25	E6	11	-350	357	.	.	.	.	.	97	.	.	.
26	E6	12	-346	353	.	.	.	.	.	78	354	.	1
27	E6	13	-351	358	.	.	.	.	.	75	.	.	.
28	E6	14	-372	379	.	.	.	.	.	63	.	.	.
29	E6	15	-403	410	.	.	.	.	.	173	.	.	.
30	E7	2	-413	420	.	.	.	.	.	43	.	.	.
31	E7	3	-444	452	.	.	.	.	.	43	.	.	.
32	E7	4	-450	458	.	.	.	.	.	164	.	.	.
33	E7	5	-449	457	.	.	.	.	.	83	.	.	.
34	E7	6	-477	485	.	.	.	.	.	92	484	.	1
35	E7	7	-501	510	.	.	.	.	.	112	.	.	.
36	E7	8	-549	558	.	.	.	.	.	106	.	.	.
37	E7	9	-649	660	.	.	.	.	.	104	.	.	.
38	E7	10	-657	668	.	.	.	.	.	106	.	.	.
39	E7	11	-682	693	.	.	.	.	.	106	.	.	.
40	E8	2	-246	251	252	1	1	974	.	65	252	.	1
41	E8	3	-611	621	624	3	1	991	.	95	623	-1	2
1	E8	4	-473	481	480	-1	1	989	.	98	479	-1	1

QUANTITATION REPORT FILE: GBB50507A12

DATA: GBB50507A12.TI
05/07/85 9:40:00
SAMPLE: 10 ML H2O ON #12
DS.:
SUBMITTED BY: #12 ANALYST: 633

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
[illegible]	212 BROMODICHLOROMETHANE
	217 1,2-DICHLOROPROPANE
21	230 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	200 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	215 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	ECAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
	128	198	10:04	1	1.000	A 66	82777.	50.000 UG/KG	16.79
	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
	84	135	6:52	1	0.682	A BB	20071.	7.174 UG/KG	2.41
7	43	146	7:25	1	0.737	A BB	4783.	4.128 UG/KG	1.39
8	76	166	8:26	1	0.838	A BB	663.	0.105 UG/KG	0.04
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	404	20:32	14	1.000	A BB	298157.	50.000 UG/KG	16.79
15	72	252	12:49	14	0.624	A BB	881.	1.901 UG/KG	0.64
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	63	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	354	18:00	14	0.876	A BB	1853.	0.346 UG/KG	0.12
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	506	25:43	29	1.000	A BB	278637.	50.000 UG/KG	16.79
30	43	NOT FOUND							
31	43	NOT FOUND							
	164	NOT FOUND							
33	83	NOT FOUND							
34	92	484	24:36	29	0.957	A BB	857.	0.206 UG/KG	0.07
35	112	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	252	12:49	1	1.273	A BB	116300.	40.915 UG/KG	13.74
41	95	623	31:40	29	1.231	A*BB	227542.	46.201 UG/KG	15.51
42	98	479	24:21	1	2.419	A BB	271901.	46.881 UG/KG	15.74

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50		10.000			50.00		1.462	
3	2:48		10.000			50.00		2.039	
4	3:33		10.000			50.00		1.512	
5	4:34		10.000			50.00		0.813	
6	6:46	1.02	5.000	0.14	7.17	50.00	0.242	1.690	0.14
7	7:19	1.01	10.000	0.07	4.13	50.00	0.058	0.700	0.08
8	8:20	1.01	5.000	0.17	0.11	50.00	0.008	3.806	0.00
9	9:30		5.000			50.00		1.393	
10	10:50		5.000			50.00		2.379	
11	11:32		5.000			50.00		1.470	
12	12:06		5.000			50.00		3.687	
	12:52		5.000			50.00		2.190	
	20:29	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	1.90	50.00	0.003	0.078	0.04
16	14:14		5.000			50.00		0.757	
17	14:38		5.000			50.00		0.835	
18	14:41		10.000			50.00		0.733	
19	15:06		5.000			50.00		0.813	
20	16:31		5.000			50.00		0.398	
21	16:46		5.000			50.00		0.299	
22	17:20		5.000			50.00		0.678	
23	17:57		5.000			50.00		0.788	
24	18:03		5.000			50.00		0.427	
25	17:54	1.01	5.000	0.18	0.35	50.00	0.006	0.897	0.01
26	18:06		5.000			50.00		0.857	
27	19:10		10.000			50.00		0.275	
28	20:41		5.000			50.00		0.868	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15		10.000			50.00		0.754	
31	22:52		10.000			50.00		0.612	
32	23:08		5.000			50.00		0.763	
33	23:05		5.000			50.00		0.824	
34	24:33	1.00	5.000	0.19	0.21	50.00	0.003	0.747	0.00
35	25:49		5.000			50.00		1.276	
36	28:19		5.000			50.00		0.657	
37	33:36		5.000			50.00		0.518	
38	34:03		5.000			50.00		0.856	
39	35:26		5.000			100.00		0.826	
40	12:46	1.00	10.000	0.13	40.92	50.00	1.405	1.717	0.82
41	31:37	1.00	10.000	0.12	46.20	50.00	0.817	0.884	0.92
42	24:21	1.00	10.000	0.24	46.88	50.00	3.285	3.503	0.94

internal standard monitor

file GB850507A12

	sample	shift std	% Diff	P/F
Bromochloromethane	82777	41327	100	P
Difluorobenzene	298157	147391	100	P
D5 Chlorobenzene	278637	145 326	92	P

Volatile - Low Level Solid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detection Limit (ug/kg)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	7.1		7.2	5.0
7	252	___	ACETONE (2-PROPANONE)			BDL	10.0
8	254	___	CARDON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLORDETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-OICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLORDETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENIENE			BDL	5.0
2	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
2	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANDNE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENIENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

Volatile - Low Level Solid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	40.9	50.0	82.0	50-160	X	
41		BROMOFLUOROBENZENE	46.2	50.0	92.0	50-160	X	
42		DB-TOLUENE	46.9	50.0	94.0	50-160	X	

* Advisory surrogate only

++ % Recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	___	___

Correction Factor Calculation:

$$\frac{5.0\ g}{\text{Wet Weight of Sample (g)}} \times \text{CC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ g}{5.0\ (g)} \times \frac{1.0}{1.0} \times \frac{1.0}{1.0} = 1.000$$

Quant Report amount spiked conversion factor:

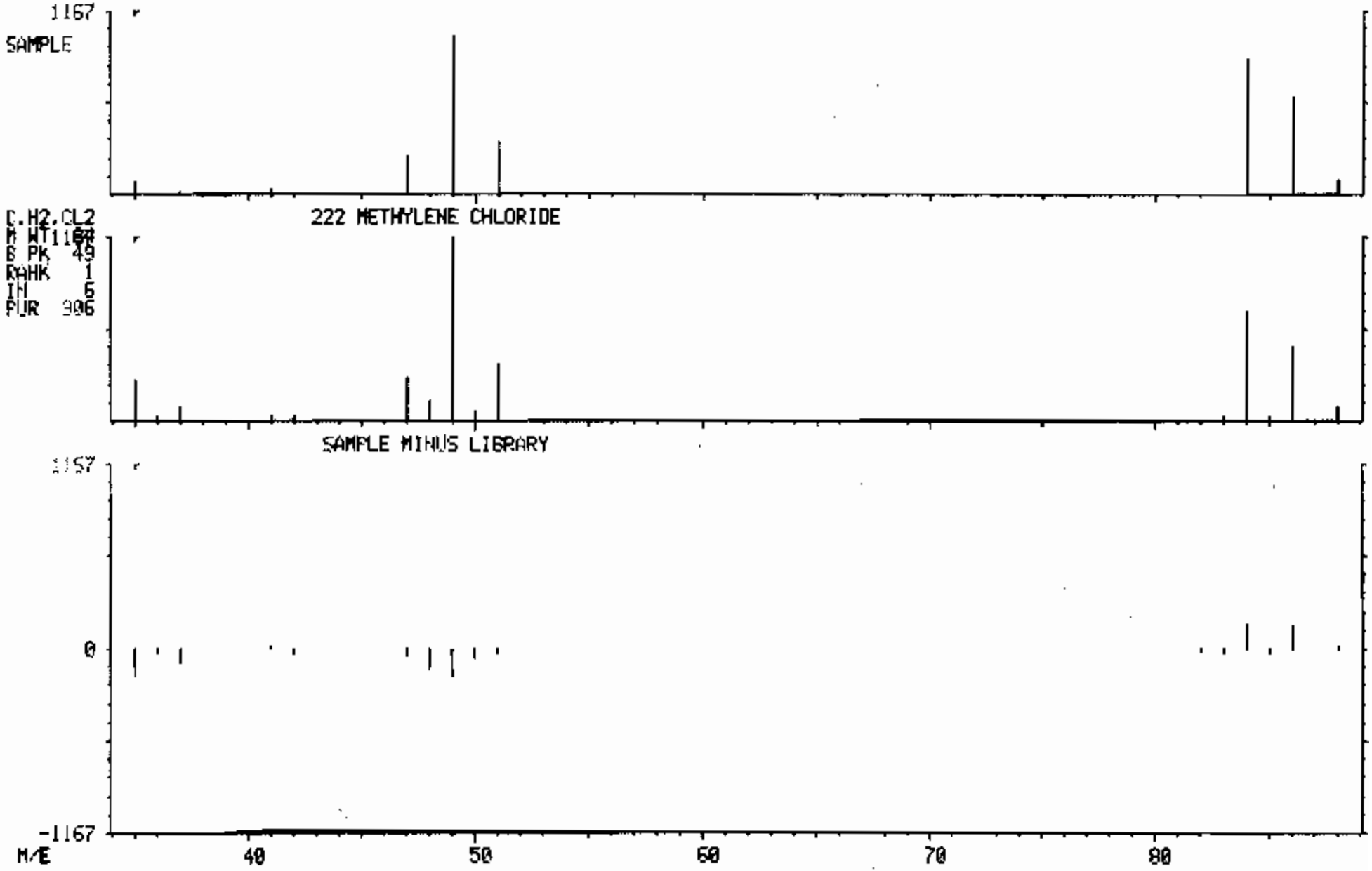
The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

COMPUCHEM LABS

LIBRARY SEARCH
05/07/85 9:40:00 + 6:52
SAMPLE: 10 ML H2O ON #12
ENHANCED (5 15B 2H 0T)

DATA: GB050507A12 # 135

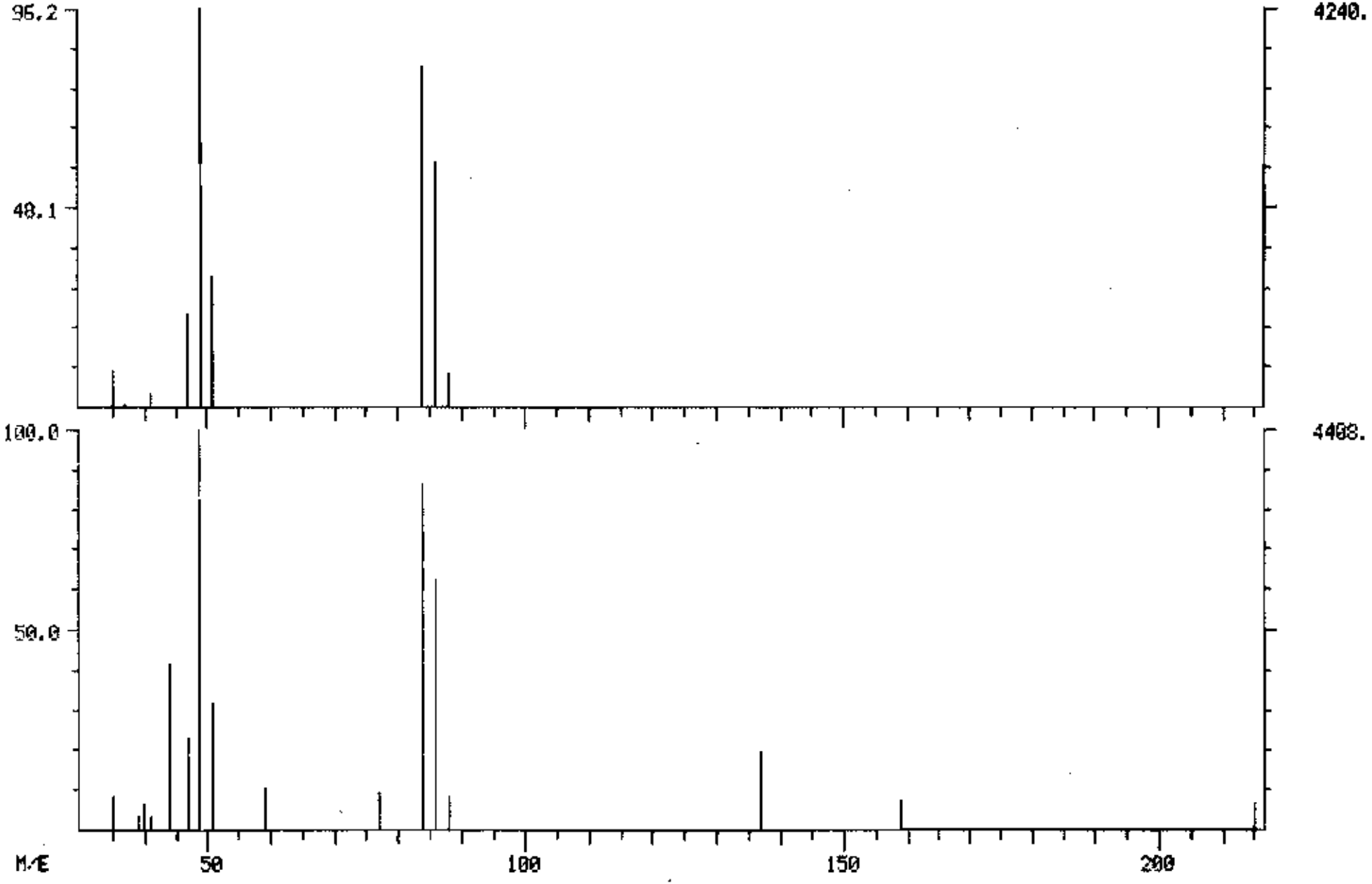
BASE M/E: 49
RIC: 13775.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/07/85 9:40:00 + 6:52
SAMPLE: 10 ML H2O ON #12
ENHANCED (S 15B 2N)

DATA: GB850507A12 #135 BASE M/E: 49/ 49
RIC: 13775./ 18815.



Environmental Protection Agency, CLP Sample Management Office
Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CB850507C11
Sample matrix: liquid
Data Release Authorized By: _____

Case:
QC Report No: _____
Contract No:
Date Sample Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed:
Conc/Dil Factor: 1.00
Percent moisture: N/A
Percent moisture (decanted):
pH:

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.1	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	7.2	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
56-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

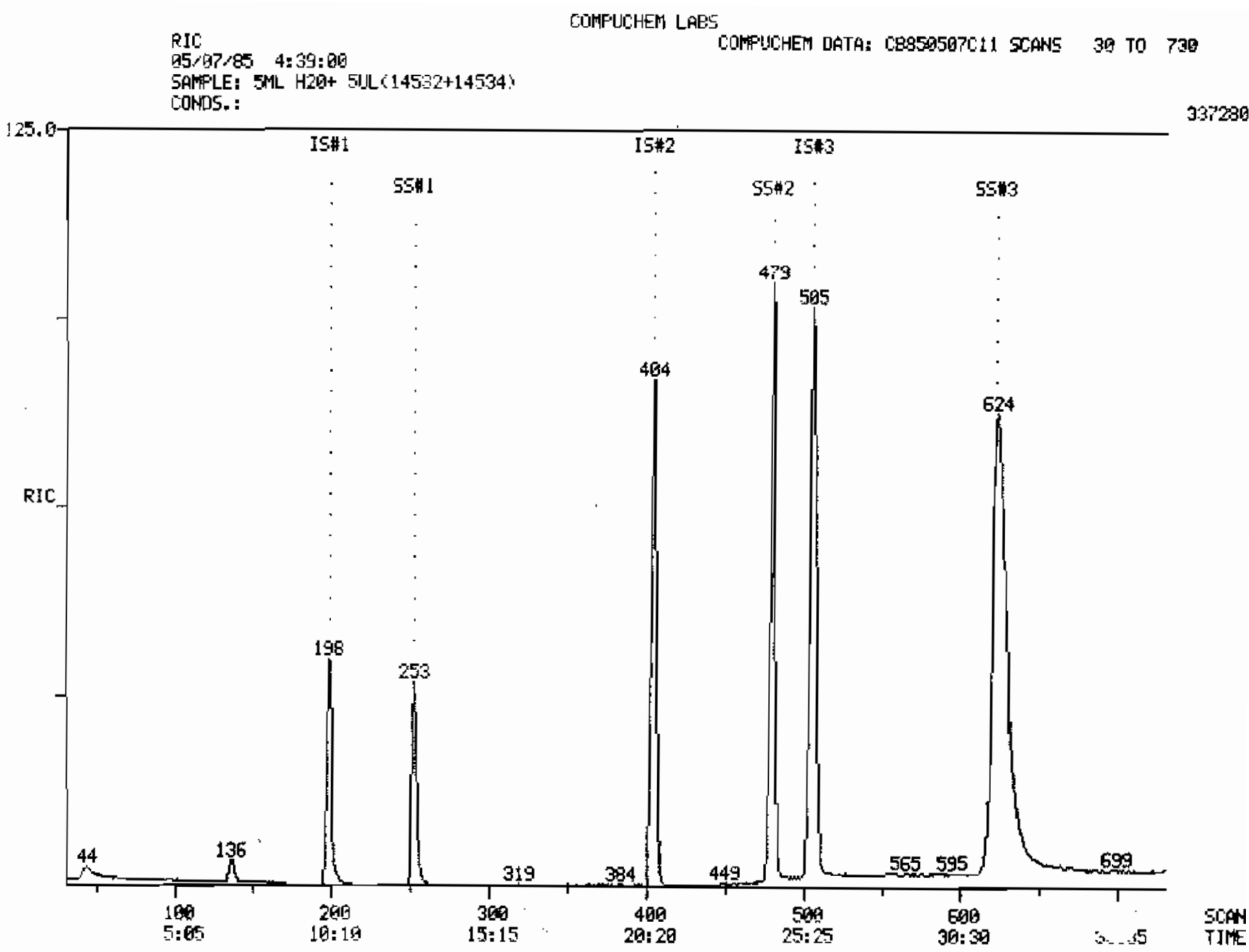
Environmental Protection Agency - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
05/07/85 4:39:00
SAMPLE: 5ML H20+ 5UL(14532+14534)
CONDS.:
COMPUCHEM DATA: CB850507C11 SCANS 30 TO 730
337280
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
505
404
624
198
253
44
136
319
384
449
565
595
699
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/07/85 5:50:25
DATA FILE: C8850507C11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	26	42	7	1	38	E237S/E237U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REP	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	E1	1	-198	199	199	.	1	987	.	128	198	-1	1
2	E2	1	-404	404	404	.	1	993	.	114	404	.	1
3	E3	1	-505	505	505	.	1	987	.	117	505	.	1
4	E1	2	-41	43	.	.	.	.	.	50	.	.	.
5	E1	3	-61	63	.	.	.	.	.	94	.	.	.
6	E1	4	-76	78	.	.	.	.	.	62	.	.	.
7	E1	5	-94	96	.	.	.	.	.	64	.	.	.
8	E1	6	-135	136	137	1	1	962	.	84	136	-1	1
9	E1	7	-146	147	.	.	.	.	.	43	148	.	1
10	E1	8	-166	167	.	.	.	.	.	76	.	.	.
11	E1	9	-189	190	.	.	.	.	.	96	.	.	.
12	E1	10	-215	216	.	.	.	.	.	63	.	.	.
13	E1	11	-229	230	.	.	.	.	.	96	.	.	.
	E1	12	-239	240	.	.	.	.	.	83	.	.	.
	E1	13	-254	255	.	.	.	.	.	62	.	.	.
16	E2	2	-252	253	.	.	.	.	.	72	254	.	1
17	E2	3	-281	282	.	.	.	.	.	97	.	.	.
18	E2	4	-289	290	.	.	.	.	.	117	.	.	.
19	E2	5	-291	292	.	.	.	.	.	43	.	.	.
20	E2	6	-298	299	.	.	.	.	.	83	.	.	.
21	E2	7	-326	327	.	.	.	.	.	63	.	.	.
22	E2	8	-331	332	.	.	.	.	.	75	.	.	.
23	E2	9	-342	343	.	.	.	.	.	130	.	.	.
24	E2	10	-353	354	.	.	.	.	.	129	.	.	.
25	E2	11	-356	357	.	.	.	.	.	97	.	.	.
26	E2	12	-353	354	.	.	.	.	.	78	.	.	.
27	E2	13	-356	357	.	.	.	.	.	75	.	.	.
28	E2	14	-378	379	.	.	.	.	.	63	.	.	.
29	E2	15	-407	407	.	.	.	.	.	173	.	.	.
30	E3	2	-418	418	.	.	.	.	.	43	.	.	.
31	E3	3	-449	449	.	.	.	.	.	43	450	.	1
32	E3	4	-455	455	.	.	.	.	.	164	.	.	.
33	E3	5	-454	454	.	.	.	.	.	83	.	.	.
34	E3	6	-483	483	.	.	.	.	.	92	483	.	1
35	E3	7	-508	508	.	.	.	.	.	112	.	.	.
36	E3	8	-557	557	.	.	.	.	.	106	.	.	.
37	E3	9	-664	663	.	.	.	.	.	104	.	.	.
38	E3	10	-672	671	.	.	.	.	.	106	.	.	.
39	E3	11	-699	698	.	.	.	.	.	106	.	.	.
	E4	2	-252	253	253	.	1	984	.	65	253	.	1
41	E4	3	-623	623	623	.	1	1000	.	95	623	.	1
42	E4	4	-479	479	479	.	1	983	.	98	479	.	1

QUANTITATION REPORT FILE: CB850507C11

DATA: CB850507C11.TI
05/07/85 4:39:00
SAMPLE: 5ML H20+ 5UL(14532+14534)
CONDS. :
SUBMITTED BY: 11 ANALYST: 817

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* . BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
	227 1,1,1-TRICHLOROETHANE
	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLORDBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
	# BROMOFLUOROBENZENE
	# DB-TOLUENE

NO	M/E	BCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	19B	10:04	1	1.000	A BV	59220.	50.000 UG/L	15.60
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	136	6:55	1	0.687	A BB	8657.	4.195	UG/L	1.31
7	43	148	7:31	1	0.747	A BV	2702.	7.236	UG/L	2.26
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	404	20:32	14	1.000	A BV	318590.	50.000	UG/L	15.60
15	72	254	12:55	14	0.629	A BB	574.	3.820	UG/L	1.19
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
29	173	NOT FOUND								
	117	505	25:40	29	1.000	A BV	332304.	50.000	UG/L	15.60
30	43	NOT FOUND								
31	43	450	22:52	29	0.891	A BB	699.	0.870	UG/L	0.27
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	483	24:33	29	0.956	A BB	1032.	0.233	UG/L	0.07
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	253	12:52	1	1.278	A BB	117393.	51.650	UG/L	16.12
41	95	623	31:48	29	1.234	A BB	316913.	52.297	UG/L	16.32
42	98	479	24:21	1	2.419	A BB	363727.	50.128	UG/L	15.64

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	1.00	10.000	0.10	58.00	50.00	1.000	1.000	1.00
2	2:05		10.000			50.00		2.118	
3	3:06		10.000			50.00		2.517	
4	3:52		10.000			50.00		2.044	
5	4:47		10.000			50.00		1.099	
6	6:52	1.01	5.000	0.14	4.19	50.00	0.146	1.742	0.08
7	7:25	1.01	10.000	0.07	7.24	50.00	0.046	0.315	0.14
8	8:26		5.000			50.00		3.179	
9	9:36		5.000			50.00		1.131	
10	10:56		5.000			50.00		1.966	
11	11:38		5.000			50.00		1.196	
12	12:09		5.000			50.00		2.711	
13	12:55		5.000			50.00		1.928	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
	12:49	1.01	10.000	0.06	3.82	50.00	0.002	0.024	0.08
16	14:17		5.000			50.00		0.411	
17	14:41		5.000			50.00		0.437	
18	14:48		10.000			50.00		0.395	
19	15:09		5.000			50.00		0.502	
20	16:34		5.000			50.00		0.278	
21	16:50		5.000			50.00		0.185	
22	17:23		5.000			50.00		0.453	
23	17:57		5.000			50.00		0.539	
24	18:06		5.000			50.00		0.326	
25	17:57		5.000			50.00		0.876	
26	18:06		5.000			50.00		0.671	
27	19:13		10.000			50.00		0.156	
28	20:41		5.000			50.00		0.324	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15		10.000			50.00		0.197	
31	22:49	1.00	10.000	0.09	0.87	50.00	0.002	0.121	0.02
32	23:08		5.000			50.00		0.437	
33	23:05		5.000			50.00		0.409	
34	24:33	1.00	5.000	0.19	0.23	50.00	0.003	0.666	0.00
35	25:49		5.000			50.00		1.028	
36	28:19		5.000			50.00		0.542	
37	33:45		5.000			50.00		1.341	
38	34:10		5.000			50.00		0.897	
39	35:32		5.000			100.00		0.874	
	12:49	1.00	10.000	0.13	51.65	50.00	1.982	1.919	1.03
	31:40	1.00	10.000	0.12	52.30	50.00	0.954	0.912	1.05
42	24:21	1.00	10.000	0.24	50.13	50.00	6.142	6.126	1.00

Internal Standard Area Monitor

HOD: E237 Filename: C0850507C11 Date: 05/07/85
Shift Std: CT850506B11 Time: 4:39

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
# BROMOCHLOROMETHANE (IS)	59219.	66192.	-10.	Pass
# 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	318590.	351812.	-8.	Pass
# D5 CHLOROBENZENE(INTERNAL STANDARD)	332303.	383833.	-12.	Pass

Volatile - Medium or Low Level Liquid

No	CC ID#	Lab Cde	Compound Name	Quant Report Value	X	Result(#) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.1		J	5.0
7	252	___	ACETONE (2-PROPANONE)	7.2		J	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
	208	___	CHLORODIBROMOMETHANE			BDL	5.0
	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/241	___	O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	51.6	50.0	103.0	77-120	X	
41		BROMOFLUOROBENZENE	52.3	50.0	104.0	85-121	X	
42		D8-TOLUENE	50.1	50.0	100.0	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5000 \text{ ul}}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000 \text{ ul}}{5000. \text{ (ul)}} = 1.000$$

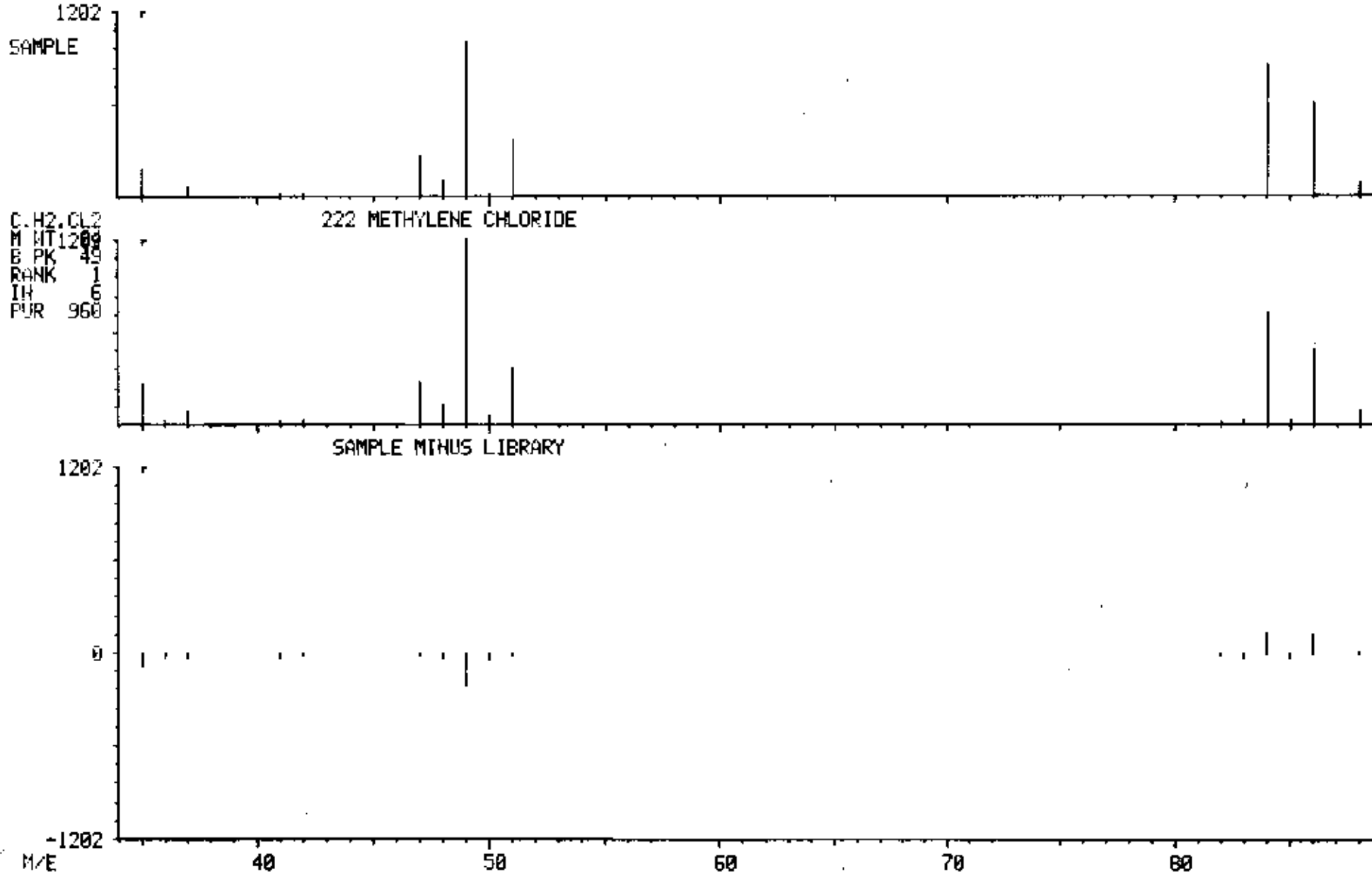
Quant Report Amount Spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

COMPUCHEM LABS

LIBRARY SEARCH
05/07/85 4:39:00 + 6:55
SAMPLE: 5ML H20+ 5UL(14532+14534)
ENHANCED (S 15B 2N 0T)

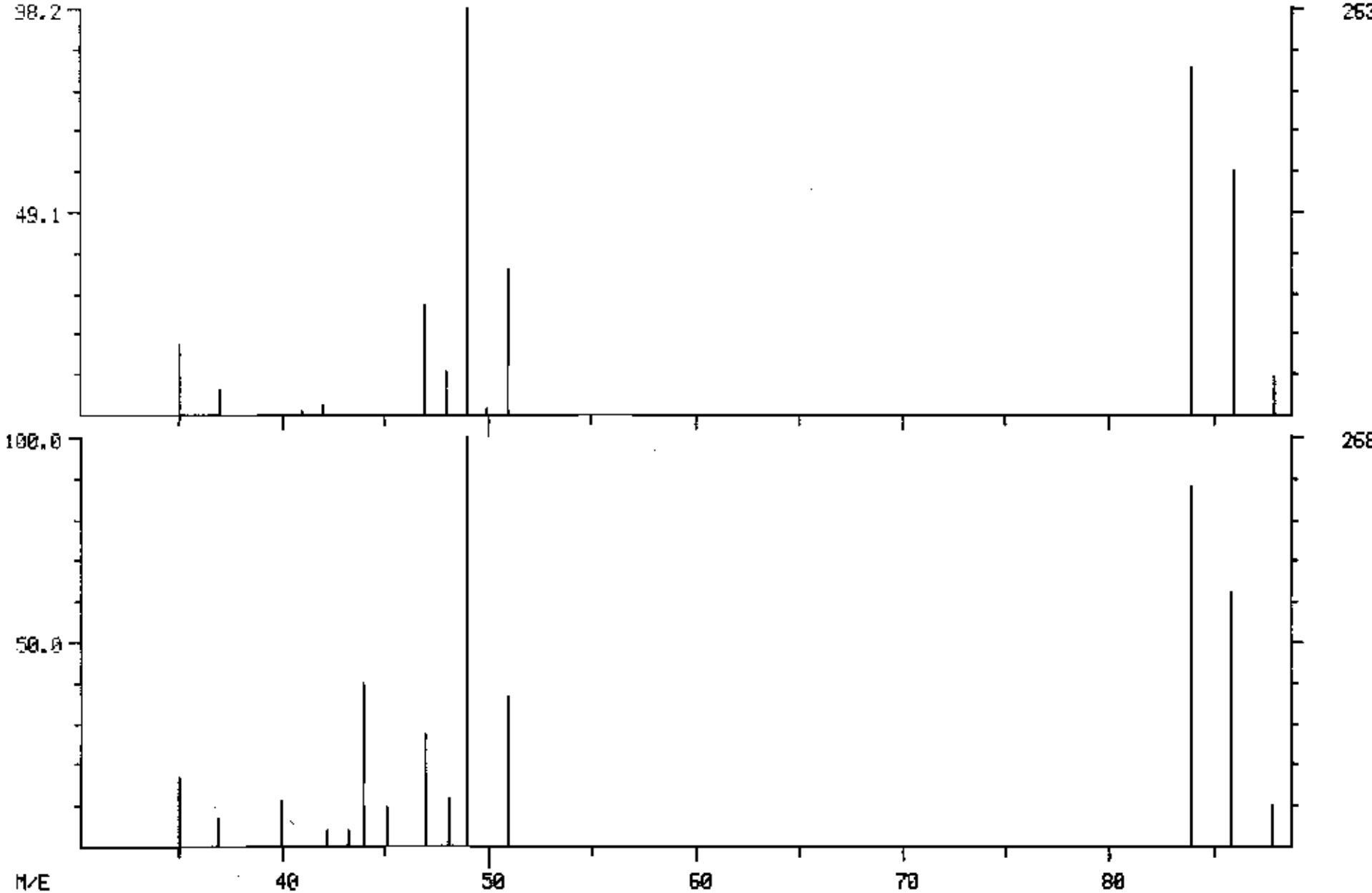
DATA: CB850507C11 # 136 BASE M/E: 49
RIC: 9423.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/07/85 4:39:00 + 6:55
SAMPLE: 5ML H20+ 5UL(14532+14534)
ENHANCED (S 15B 2N)

DATA: CB050507C11 #136 BASE M/E: 49/ 49
RIC: 9423./ 11503.

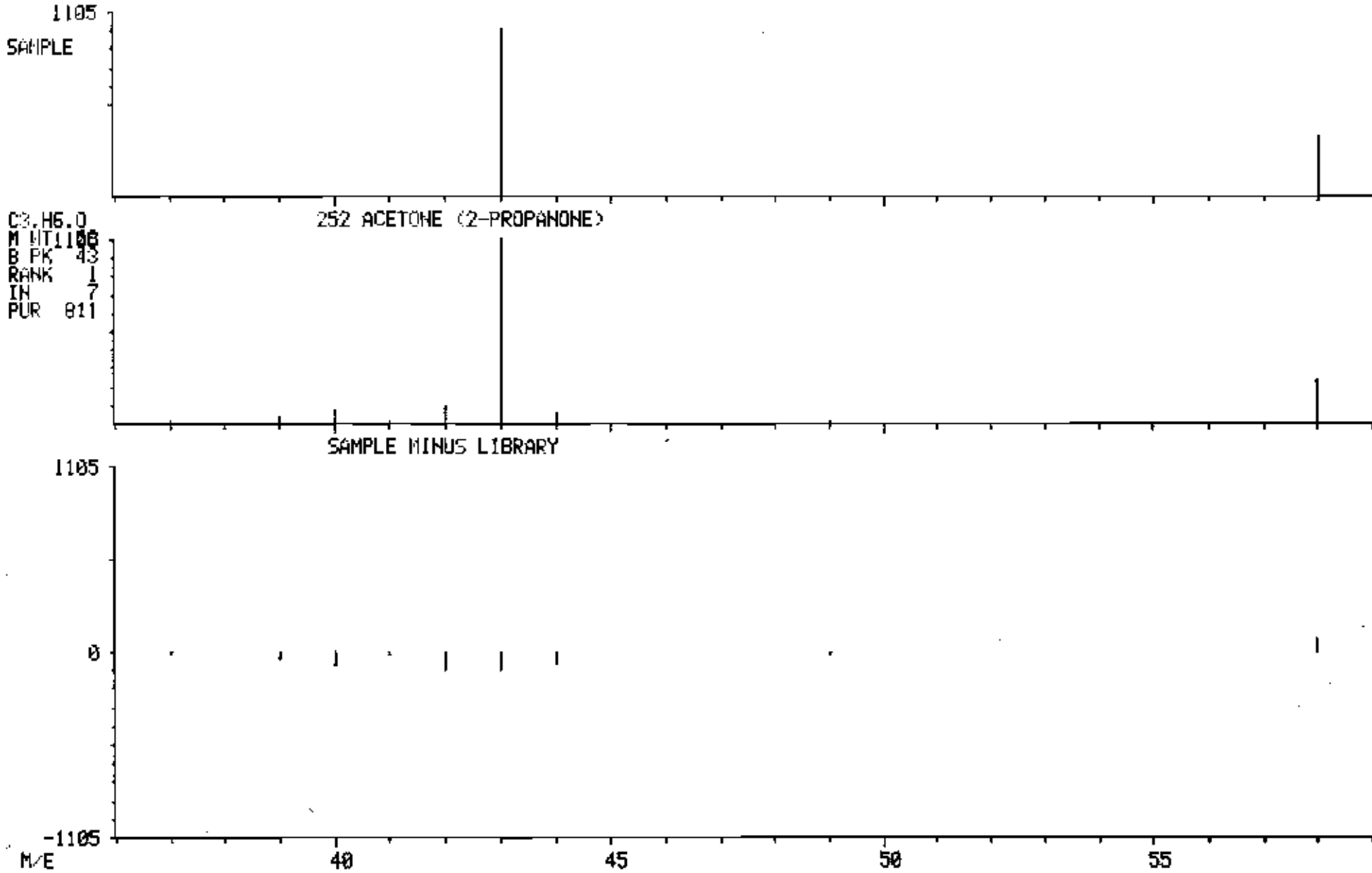


COMPUCHEM LABS

LIBRARY SEARCH
05/07/85 4:39:00 + 7:31
SAMPLE: 5ML H20+ 5UL(14532+14534)
ENHANCED (S 15B 2N 0T)

DATA: CB850507C11 # 148

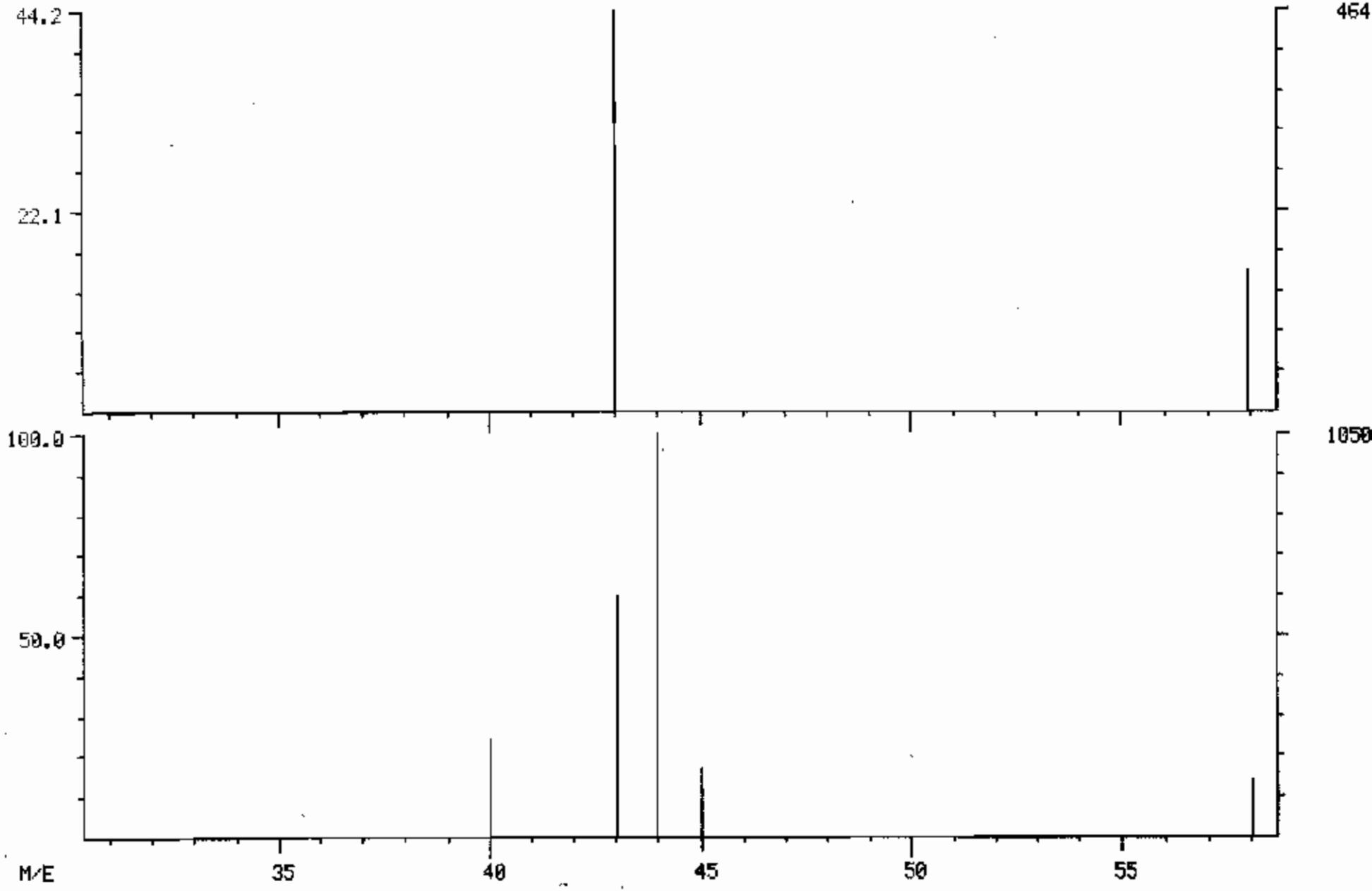
BASE M/E: 43
RIC: 625.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/07/85 4:39:00 + 7:31
SAMPLE: 5ML H20+ 5UL(14532+14534)
ENHANCED (S 150 2N)

DATA: CB850507C11 #148 BASE M/E: 43/ 44
RIC: 625./ 2255.



Holding Blank

Environmental Protection Agency, CLP Sample Management Office
P. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
CN049720A11

Organics Analysis Data Sheet
(Page 1)

Case: Gen. Test
QC Report No: 2901372
Contract No: 68-01-6784
Date Sample
Received:

Laboratory Name: CompuChem
Lab Sample ID No: 49720
Sample matrix: Liquid
Data Release
Authorized By: _____

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-07-85
Date analyzed: 05-07-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	5.2		79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	7.6	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ml in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

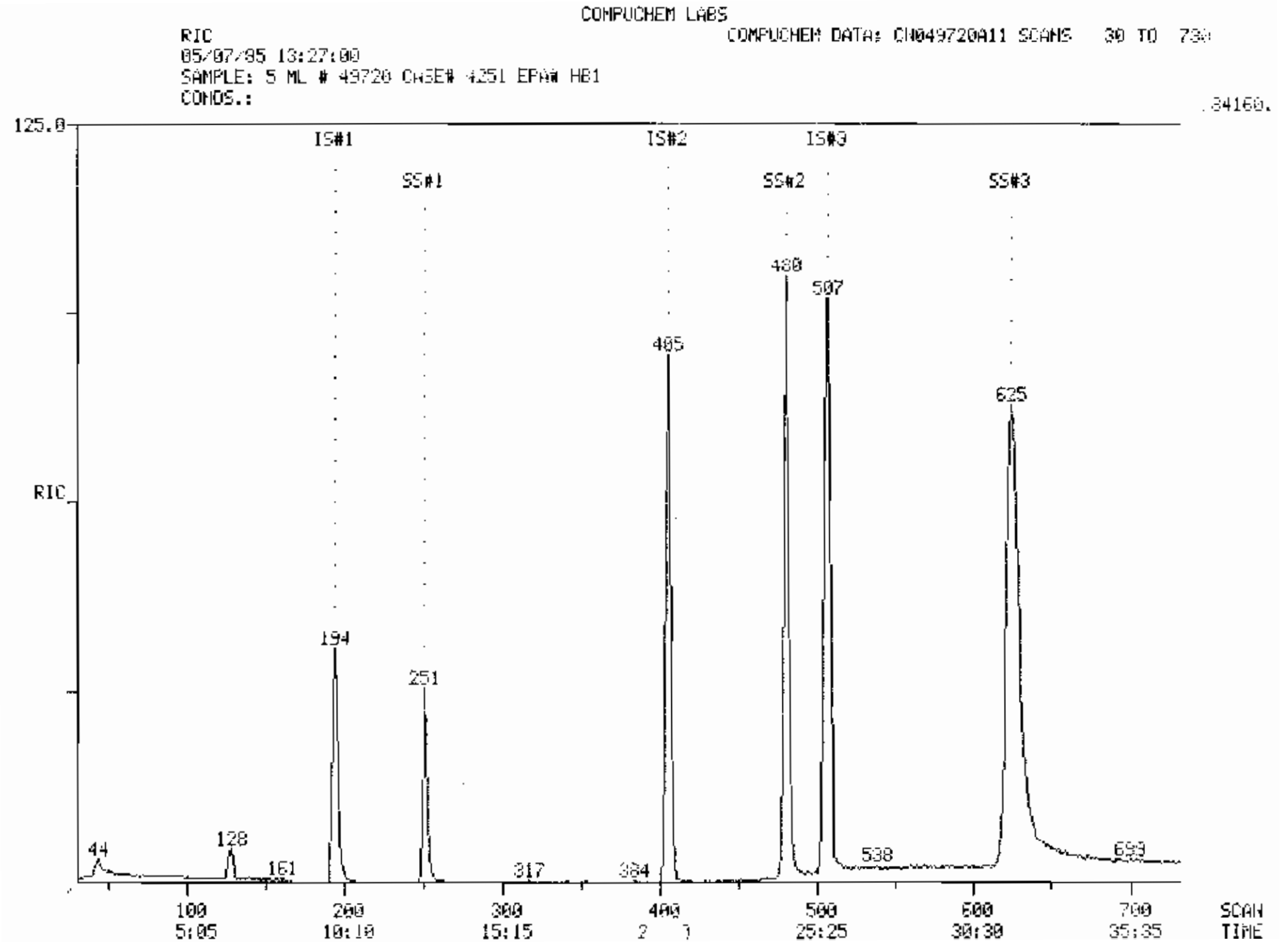
P. O Box 818 Alexandria Virginia 22313 703/557-2490

Sample Number
CN04972OA11

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l ~~or ug/Kg~~)
1.		None	VOA	—	ug/l
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN049720A11 SCANS 30 TO 730
05/07/85 13:27:00
SAMPLE: 5 ML # 49720 CWBE# 4251 EPA# HB1
CONDS.:
34160.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
480
507
405
625
RIC
194
251
44
128
161
317
384
538
693
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/07/85 14:02:33
DATA FILE: CN049720A11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	78	42	6	1	96	E237S/E237U

42 COMPOUNDS PROCESSED, 6 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT PEAKS	M/E	TOP	DELTA	PEAKS
1	E1	1	-198	194	194	.	1	980	128	194	.	1
2	E2	1	-404	404	405	1	1	995	114	405	.	1
3	E3	1	-505	507	507	.	1	984	117	506	-1	1
4	E1	2	-41	36	.	.	.	.	50	.	.	.
5	E1	3	-60	55	.	.	.	.	94	.	.	.
6	E1	4	-76	71	.	.	.	.	62	.	.	.
7	E1	5	-95	90	.	.	.	.	64	.	.	.
8	E1	6	-127	133	.	.	.	.	84	.	.	.
9	E1	7	-146	144	.	.	.	.	43	.	.	.
10	E1	8	-167	164	.	.	.	.	76	.	.	.
11	E1	9	-190	187	.	.	.	.	96	.	.	.
12	E1	10	-216	213	.	.	.	.	63	.	.	.
13	E1	11	-230	227	.	.	.	.	96	.	.	.
14	E1	12	-240	238	.	.	.	.	83	.	.	.
15	E1	13	-255	253	.	.	.	.	62	.	.	.
16	E2	2	-253	251	.	.	.	.	72	251	.	1
17	E2	3	-282	280	.	.	.	.	97	.	.	.
18	E2	4	-289	287	.	.	.	.	117	.	.	.
19	E2	5	-291	289	.	.	.	.	43	.	.	.
20	E2	6	-298	296	.	.	.	.	83	.	.	.
21	E2	7	-327	326	.	.	.	.	63	.	.	.
22	E2	8	-331	330	.	.	.	.	75	.	.	.
23	E2	9	-342	341	.	.	.	.	130	.	.	.
24	E2	10	-354	353	.	.	.	.	129	.	.	.
25	E2	11	-356	355	.	.	.	.	97	.	.	.
26	E2	12	-354	353	.	.	.	.	78	353	.	1
27	E2	13	-357	356	.	.	.	.	75	.	.	.
28	E2	14	-379	379	.	.	.	.	63	.	.	.
29	E2	15	-408	408	.	.	.	.	173	.	.	.
30	E3	2	-419	419	.	.	.	.	43	.	.	.
31	E3	3	-450	451	.	.	.	.	43	453	.	1
32	E3	4	-456	457	.	.	.	.	164	.	.	.
33	E3	5	-454	455	.	.	.	.	83	.	.	.
34	E3	6	-483	484	.	.	.	.	92	484	.	1
35	E3	7	-508	509	.	.	.	.	112	509	.	1
36	E3	8	-558	560	.	.	.	.	106	.	.	.
37	E3	9	-664	668	.	.	.	.	104	.	.	.
38	E3	10	-672	676	.	.	.	.	106	.	.	.
39	E3	11	-700	704	.	.	.	.	106	.	.	.
40	E4	2	-253	251	251	.	1	980	65	251	.	1
41	E4	3	-623	626	625	-1	1	998	95	625	.	1
42	E4	4	-479	480	480	.	1	982	98	480	.	1

Internal Standard Area Monitor

Method: E237 Filename: CN049720A11 Date: 85/07/15
Shift Std: CT850507C11 Time: 13:27

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	49354.	58487.	-15.	Pass
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	270404.	323678.	-15.	Pass
* D5 CHLOROBENZENE(INTERNAL STANDARD)	288157.	341064.	-15.	Pass

DATA: CN049720A11. TI
05/07/85 13:27:00
SAMPLE: 5 ML # 49720 CASE# 4251 EPA# HB1
'NDS. :
,BMITTED BY: 11 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
'O	217 1,2-DICHLOROPROPANE
_1	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	194	9:52	1	1.000	A BV	49355.	50.000 UG/L	15.86
2	[illegible]	[illegible]							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	128	6:30	1	0.660	A BB	9763.	5.221 UG/L	1.66
7	43	139	7:04	1	0.716	A BB	2877.	7.613 UG/L	2.41
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	405	20:35	14	1.000	A BV	270405.	50.000 UG/L	15.86
15	72	251	12:46	14	0.620	A BB	393.	3.261 UG/L	1.03
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	353	17:57	14	0.872	A BB	717.	0.141 UG/L	0.04
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	506	25:43	29	1.000	A BB	288158.	50.000 UG/L	15.86
30	43	NOT FOUND							
31	43	453	23:02	29	0.895	A BV	798.	1.056 UG/L	0.33
2	164	NOT FOUND							
33	83	NOT FOUND							
34	92	484	24:36	29	0.957	A BB	2761.	0.665 UG/L	0.21
35	112	509	25:52	29	1.006	A BB	4367.	0.680 UG/L	0.22
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	251	12:46	1	1.294	A BV	93755.	46.682 UG/L	14.81
41	95	623	31:46	29	1.295	A BB	275905.	51.063 UG/L	16.20
42	98	480	24:24	1	2.474	A BV	307884.	48.930 UG/L	15.52

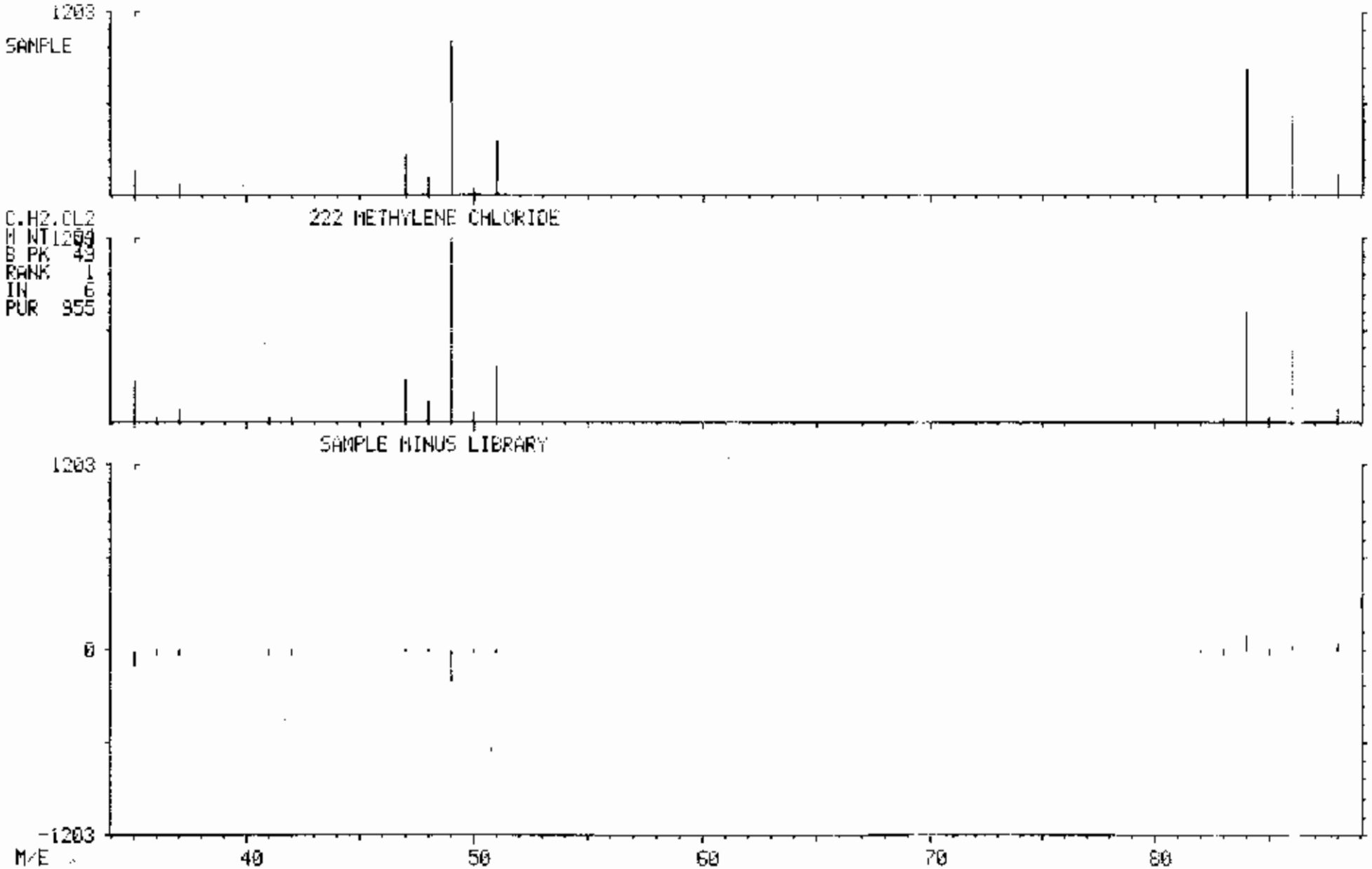
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:05		10.000			50.00		2.324	
3	3:03		10.000			50.00		2.599	
4	3:52		10.000			50.00		2.164	
5	4:50		10.000			50.00		1.122	
6	6:58	0.93	5.000	0.13	5.22	50.00	0.198	1.894	0.10
7	7:31	0.94	10.000	0.07	7.61	50.00	0.058	0.383	0.15
8	8:29		5.000			50.00		4.380	
9	9:39		5.000			50.00		1.245	
10	10:59		5.000			50.00		2.281	
11	11:41		5.000			50.00		1.350	
12	12:12		5.000			50.00		3.051	
13	12:58		5.000			50.00		2.151	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52	0.99	10.000	0.06	3.26	50.00	0.001	0.022	0.07
16	14:20		5.000			50.00		0.438	
17	14:41		5.000			50.00		0.460	
18	14:48		10.000			50.00		0.395	
19	15:09		5.000			50.00		0.531	
20	16:37		5.000			50.00		0.300	
21	16:50		5.000			50.00		0.211	
22	17:23		5.000			50.00		0.488	
23	18:00		5.000			50.00		0.561	
24	18:06		5.000			50.00		0.353	
25	18:00	1.00	5.000	0.17	0.14	50.00	0.003	0.943	0.00
26	18:09		5.000			50.00		0.717	
27	19:16		10.000			50.00		0.135	
28	20:44		5.000			50.00		0.347	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.208	
31	22:52	1.01	10.000	0.09	1.06	50.00	0.003	0.131	0.02
32	23:11		5.000			50.00		0.476	
33	23:05		5.000			50.00		0.454	
34	24:33	1.00	5.000	0.19	0.66	50.00	0.010	0.721	0.01
35	25:49	1.00	5.000	0.20	0.66	50.00	0.015	1.115	0.01
36	28:22		5.000			50.00		0.580	
37	33:45		5.000			50.00		1.337	
38	34:10		5.000			50.00		0.897	
39	35:35		5.000			100.00		0.877	
40	12:52	0.99	10.000	0.13	46.68	50.00	1.900	2.035	0.93
41	31:40	1.00	10.000	0.12	51.06	50.00	0.957	0.938	1.02
42	24:21	1.00	10.000	0.25	48.93	50.00	6.238	6.375	0.98

COMPUCHEM LABS

LIBRARY SEARCH
05/07/85 13:27:00 + 5:30
SAMPLE: 5 ML # 49720 CASE# 4251 EPA# HBI
ENHANCED (S 15B 2N 0T)

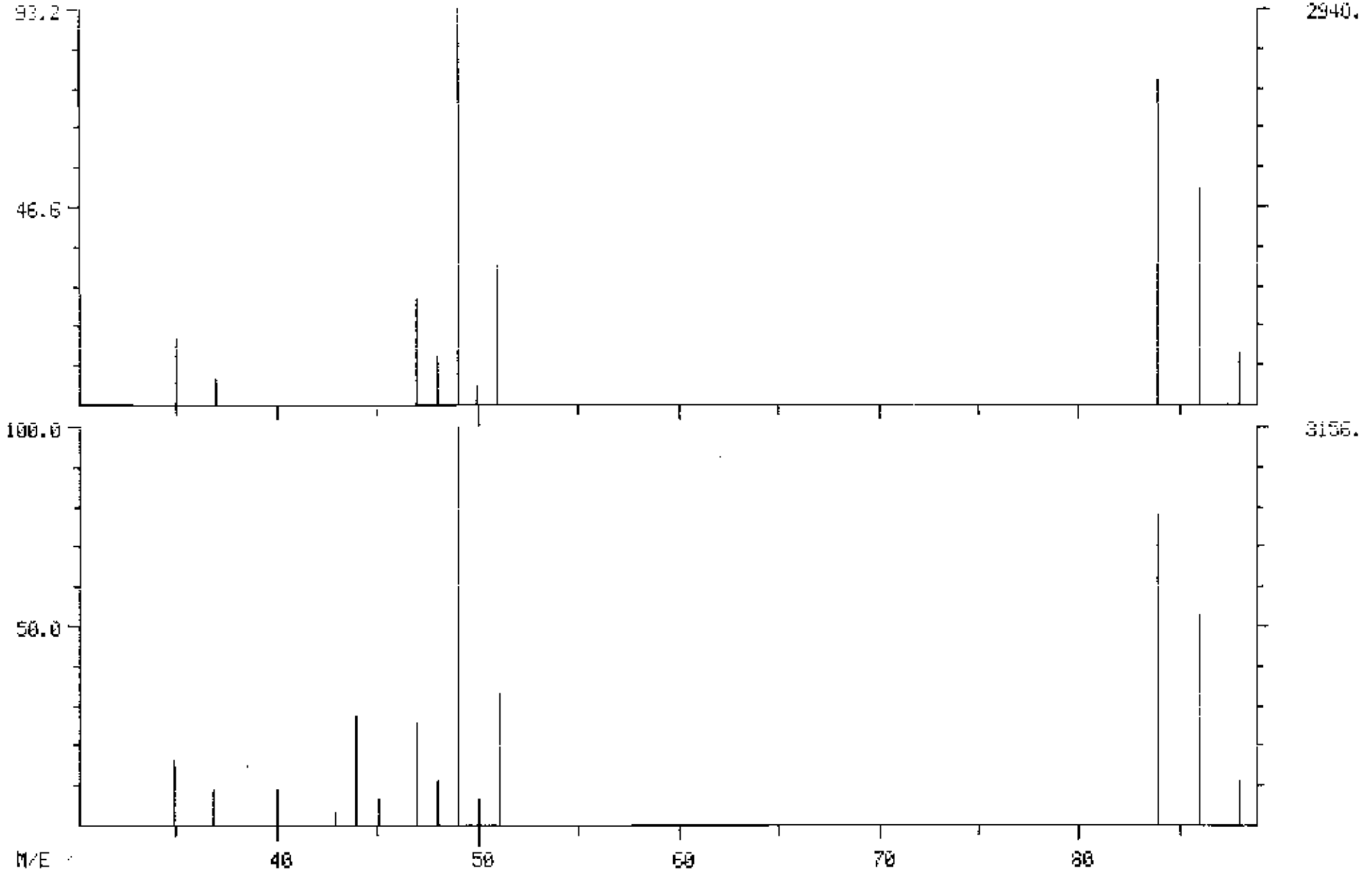
DATA: CN049720A11 # 128 BASE M/E: 49
RIC: 10383.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/07/85 13:27:00 + 6:00
SAMPLE: 5 ML # 49720 CASE# 4251 EPA# HB1
ENHANCED (S 15B 2N)

DATA: CN045720A11 #128 BASE M/E: 49/ 4
RIC: 10383./ 12 51.

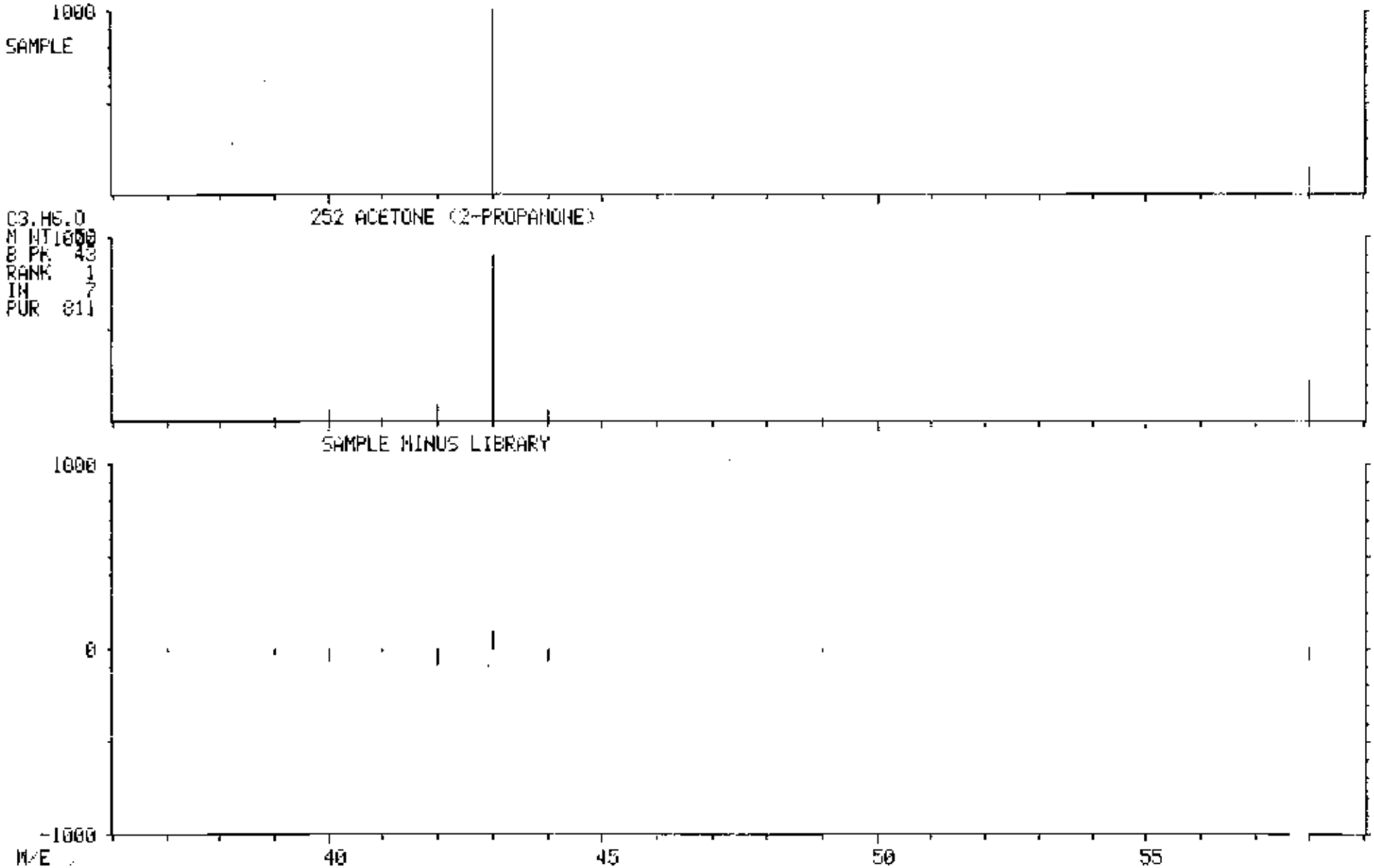


COMPUCHEM LABS

LIBRARY SEARCH
05/07/85 13:27:09 + 7:04
SAMPLE: 5 ML # 49720 CAS#: 4251 EPA# HB1
ENHANCED (S 15B 2N 0T)

DATA: CN049720A11 # 139

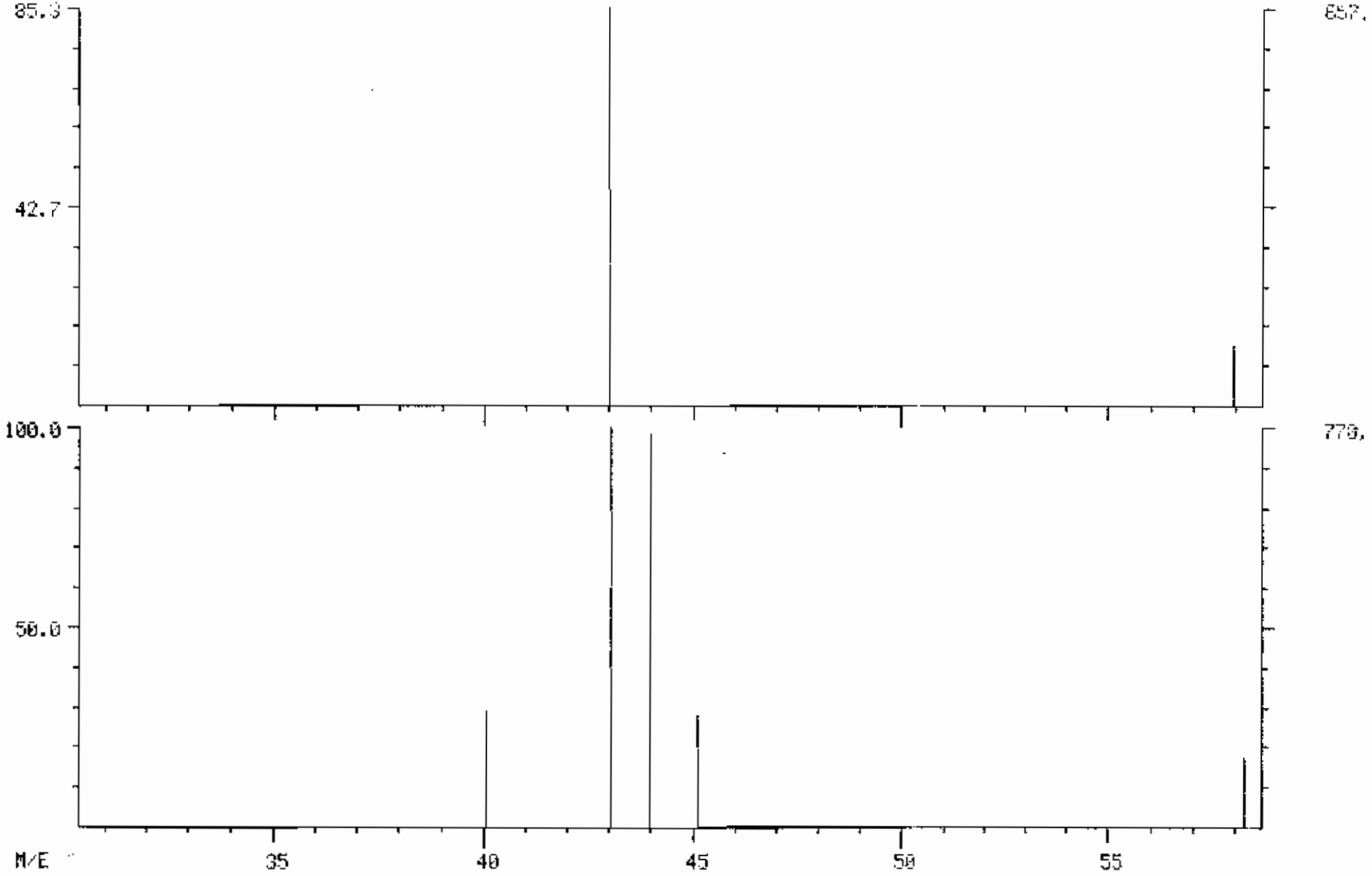
BASE M/E: 43
RIC: 755.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/07/85 13:27:00 + 7:04
SAMPLE: 5 ML # 49720 CASE# 4251 EPA# HB1
ENHANCED (S 15B 2N)

DATA: CN049720A11 #139 BASE M/E: 43/ 4.
RIC: 755./ 2439.



CASE#: 4257 DUE DATE: 5/24/85

VOA
GC/MS WORKSHEET COMPUCHEM#: 49720

J1[ ] J3[ ] D1[ ] (:1)

J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: HOCD106 BLANK BL 290372

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFB50507.11 Disk(111)
Blank Filename CBFB50507.11 Disk (|)
Standard Filename CTB50507.11 Disk (|)
Sample Filename CBL49720A1 Disk (|)

ANALYST(S): Injection SM Work-up SM

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes DX,JS,SN,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,FC,HR IF,LA,DI,CO,RN,DW,SI,SF UP,BE,QT,VO,FO,SM

Disposition: [✓] Complete

[ ] Reinject Neat

[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found 0

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review JLH Date 5/17/85 Auditor_____ Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN04920A4 /_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

EPA-CHEP (11/84

5/17/85

received 5/17/85

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	5.2		5.2	5.0
7	252	___	ACETONE (2-PROPANONE)	7.6		J	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLORDETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
29	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENIENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

)	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	46.7	50.0	93.0	77-120	X	
41		BROMOFLUOROBENZENE	51.1	50.0	102.0	85-121	X	
42		DB-TOLUENE	48.9	50.0	98.0	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ___ ___

Correction Factor Calculation

$$\frac{5000 \text{ UL}}{\text{Volume of Sample Purged (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.000$$

ANT Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

Environmental Protection Agency, CLP Sample Management Office
P. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
GH049912B12

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: GH049912B12
Sample matrix: solid
Data Release
Authorized By: _____

Case: GEN TEST
QC Report No: 278/349
Contract No: 68-01-6784
Date Sample
Received:

Volatile Compounds

Concentration: low
Date extracted/prepared: 5-6-85
Date analyzed: 5-7-85
Conc/Dil Factor: 1.00
Percent moisture: 0%
Percent moisture (decanted):
pH:

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	6.7		79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum acceptable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		None			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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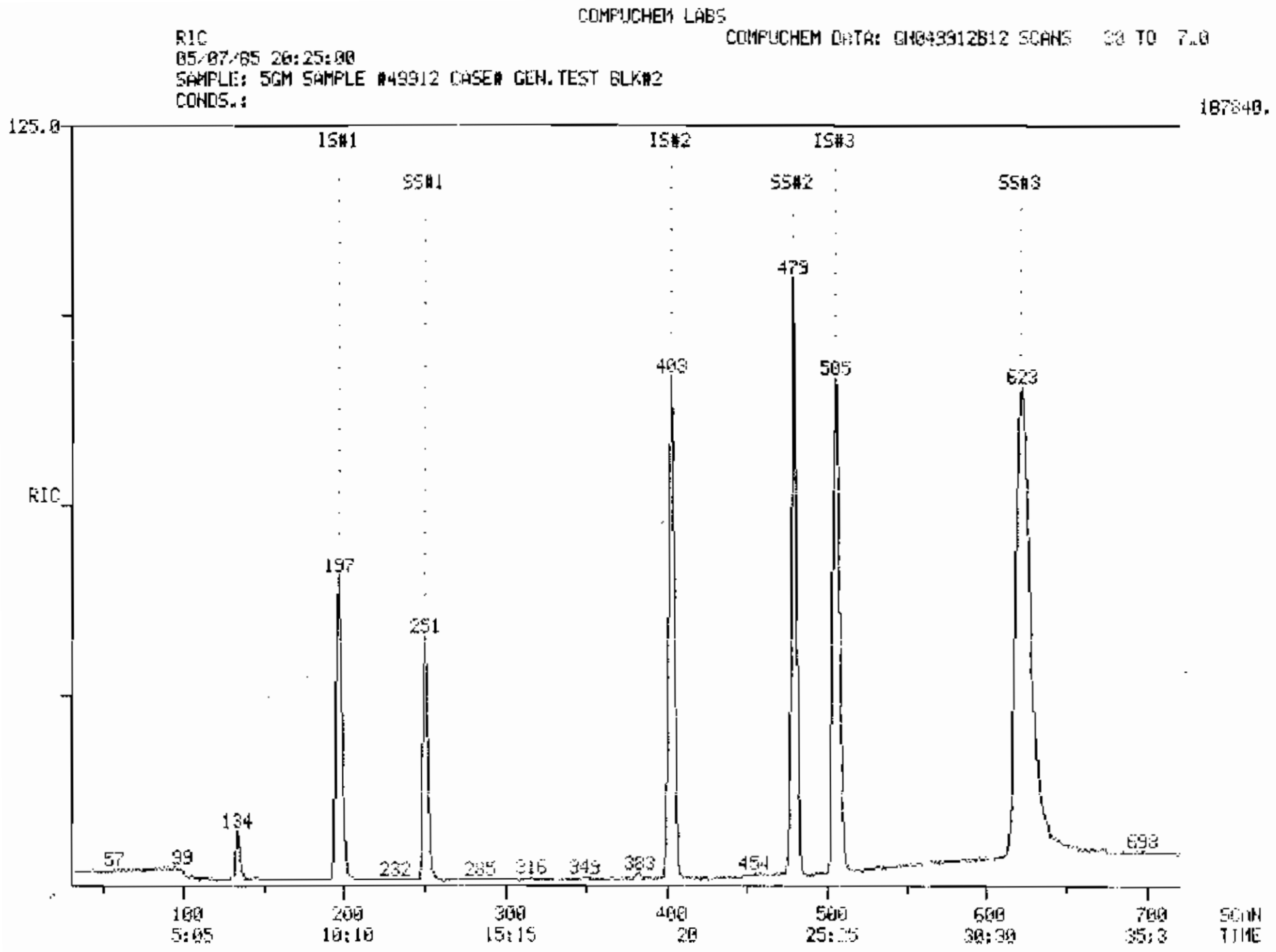
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GN049912B12 SCANS 30 TO 7.0
05/07/85 20:25:00
SAMPLE: 5GM SAMPLE #49912 CASE# GEN.TEST BLK#2
CONDS.:
187840.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
403
505
623
197
251
134
57
99
232
285
315
345
383
454
693
100
5:05
200
10:10
300
15:15
400
20
500
25:25
600
30:30
700
35:3
SCAN
TIME

METHOD: E238 FILENAME: CH049912B12 DATE: 05/07/85
SHIFT STD: CS850507A12 TIME: 20:25

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
* BROMOCHLOROMETHANE (IS)	30950.	41326.	23.	PASS
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	215992.	149390.	45.	PASS
* D5 CHLOROBENZENE(INTERNAL STANDARD)	202795.	145325.	40.	PASS

PROCEDURE: RK
DATA FILE: CH049912B12
REFERENCE: E238
METHOD: E238 INITIALIIATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	0	42	6	1	69	E238S/E238U

42 COMPOUNDS PROCESSED, 6 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	FREQ	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA PEAKS
1	E5	1	-196	197	197	.	1	955	.	128	197	. 1
2	E6	1	-404	403	403	.	1	995	.	114	403	. 1
3	E7	1	-506	505	505	.	1	978	.	117	505	. 1
4	E5	2	-37	37	.	.	.	.	.	50	.	. .
5	E5	3	-57	57	.	.	.	.	.	94	.	. .
6	E5	4	-72	72	.	.	.	.	.	62	.	. .
7	E5	5	-91	91	.	.	.	.	.	64	.	. .
8	E5	6	-134	134	.	.	.	.	.	84	134	. 1
9	E5	7	-146	146	.	.	.	.	.	43	145	. 1
10	E5	8	-166	165	.	.	.	.	.	76	.	. .
11	E5	9	-189	188	.	.	.	.	.	96	.	. .
12	E5	10	-215	214	.	.	.	.	.	63	.	. .
13	E5	11	-226	227	.	.	.	.	.	96	.	. .
14	E5	12	-239	238	.	.	.	.	.	83	.	. .
15	E5	13	-254	253	.	.	.	.	.	62	.	. .
16	E6	2	-253	252	.	.	.	.	.	72	.	. .
17	E6	3	-281	280	.	.	.	.	.	97	.	. .
18	E6	4	-289	288	.	.	.	.	.	117	.	. .
19	E6	5	-291	290	.	.	.	.	.	43	.	. .
20	E6	6	-298	297	.	.	.	.	.	83	.	. .
21	E6	7	-327	326	.	.	.	.	.	63	.	. .
22	E6	8	-331	330	.	.	.	.	.	75	.	. .
23	E6	9	-342	341	.	.	.	.	.	130	.	. .
24	E6	10	-355	354	.	.	.	.	.	129	.	. .
25	E6	11	-357	356	.	.	.	.	.	97	.	. .
26	E6	12	-359	358	.	.	.	.	.	78	.	. .
27	E6	13	-357	356	.	.	.	.	.	75	.	. .
28	E6	14	-379	378	.	.	.	.	.	63	.	. .
29	E6	15	-409	408	.	.	.	.	.	173	.	. .
30	E7	2	-420	419	.	.	.	.	.	43	.	. .
31	E7	3	-451	450	.	.	.	.	.	43	.	. .
32	E7	4	-457	456	.	.	.	.	.	164	.	. .
33	E7	5	-455	454	.	.	.	.	.	83	.	. .
34	E7	6	-484	482	.	.	.	.	.	92	.	. .
35	E7	7	-508	507	.	.	.	.	.	112	.	. .
36	E7	8	-559	557	.	.	.	.	.	106	.	. .
37	E7	9	-664	662	.	.	.	.	.	104	.	. .
38	E7	10	-673	671	.	.	.	.	.	106	.	. .
39	E7	11	-674	672	.	.	.	.	.	106	.	. .
40	E8	2	-252	251	251	.	1	962	.	65	251	. 1
41	E8	3	-625	623	622	-1	1	990	.	95	622	. 1
42	E8	4	-480	478	479	1	1	987	.	98	479	. 1

DATA: CH049912B12.TI
05/07/85 20:25:00
SAMPLE: SCM SAMPLE #49912 CASE# GEN.TEST BLK#2
UNDS:
SUBMITTED BY: 12 ANALYST: 719

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	234 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	213 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	H/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	100	197	10.01	1	1.005	A BB	50951.	50.000 UG/KG	15.38
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	134	6:49	1	0.680	A BB	11549.	6.707 UG/KG	2.05
7	43	145	7:22	1	0.736	A BB	1310.	1.837 UG/KG	0.56
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	403	20:29	14	1.000	A BV	215993.	50.000 UG/KG	15.32
15	72	NOT FOUND							
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BB	202796.	50.000 UG/KG	15.32
30	43	NOT FOUND							
31	43	NOT FOUND							
32	154	NOT FOUND							
33	83	NOT FOUND							
34	92	NOT FOUND							
35	112	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	251	12:46	1	1.274	A BB	89468.	51.136 UG/KG	15.66
41	95	622	31:37	29	1.232	A BB	189028.	52.735 UG/KG	16.15
42	98	479	24:21	1	2.431	A BB	228758.	64.079 UG/KG	19.63

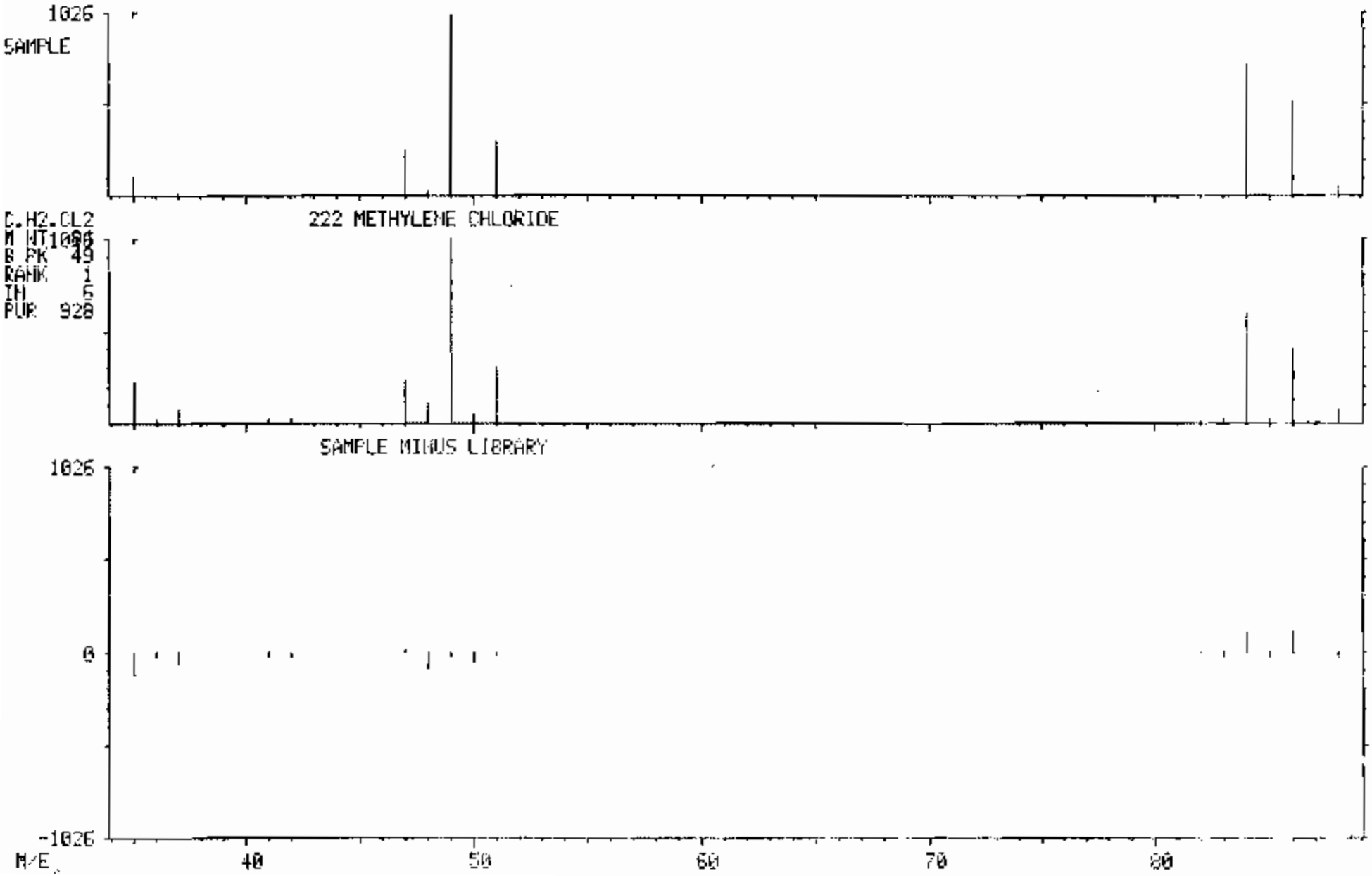
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:53		10.000			50.00		1.462	
3	2:54		10.000			50.00		2.039	
4	3:40		10.000			50.00		1.512	
5	4:38		10.000			50.00		0.813	
6	6:49	1.00	5.000	0.14	6.71	50.00	0.227	1.690	0.13
7	7:25	0.99	10.000	0.07	1.84	50.00	0.026	0.700	0.04
8	8:26		5.000			50.00		3.806	
9	9:35		5.000			50.00		1.393	
10	10:56		5.000			50.00		2.379	
11	11:35		5.000			50.00		1.470	
12	12:09		5.000			50.00		3.687	
13	13:57		5.000			50.00		2.196	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52		10.000			50.00		0.078	
16	14.17		5.000			50.00		0.757	
17	14:41		5.000			50.00		0.835	
18	14:48		10.000			50.00		0.733	
19	15:09		5.000			50.00		0.813	
20	16:37		5.000			50.00		0.398	
21	16:50		5.000			50.00		0.299	
22	17:23		5.000			50.00		0.678	
23	18:03		5.000			50.00		0.788	
24	18:09		5.000			50.00		0.427	
25	17:57		5.000			50.00		0.897	
26	18:09		5.000			50.00		0.857	
27	19:16		10.000			50.00		0.275	
28	20:47		5.000			50.00		0.868	
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:21		10.000			50.00		0.754	
31	22:56		10.000			50.00		0.612	
32	23:14		5.000			50.00		0.763	
33	23:08		5.000			50.00		0.824	
34	24:36		5.000			50.00		0.747	
35	23:52		5.000			50.00		1.276	
36	26:25		5.000			50.00		0.657	
37	33:45		5.000			50.00		0.518	
38	34:13		5.000			50.00		0.218	
39	35:35		5.000			100.00		0.416	
40	12.49	1.00	10.000	0.13	51.14	50.00	1.756	1.717	1.02
41	31:46	1.00	10.000	0.12	52.73	50.00	0.932	0.884	1.05
42	24:24	1.00	10.000	0.24	64.08	50.00	4.490	3.503	1.28

COMPUCHEM LABS

LIBRARY SEARCH
05/07/85 20:25:00 + 6:49
SAMPLE: 5GM SAMPLE #49012 CASE# GEN.TEST BLK#2
ENHANCED (S 15B 2N 0T)

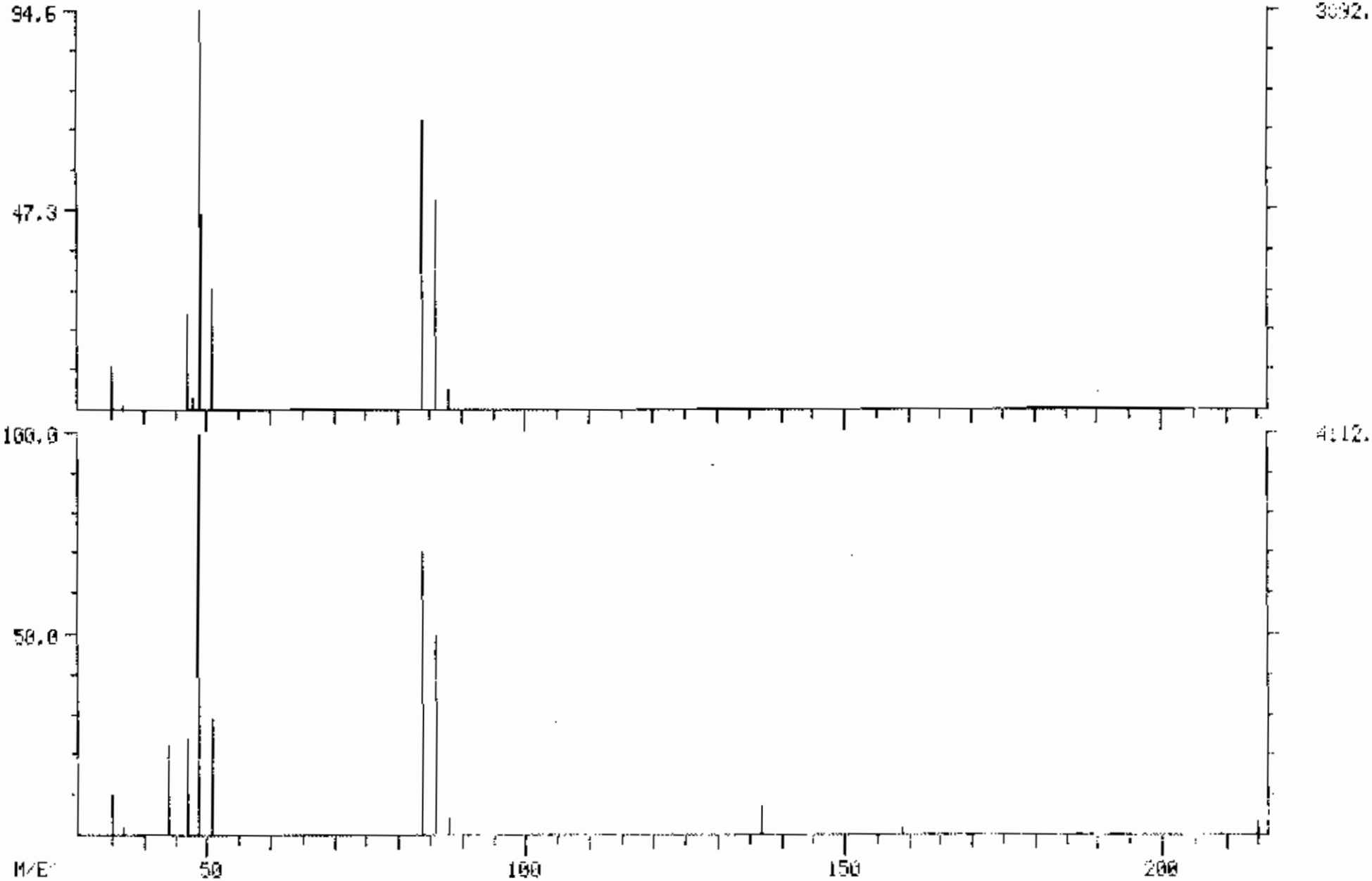
DATA: GH049012B12 # 134
BASE M/E: 49
RIC: 11631.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/07/85 20:25:00 + 6:49
SAMPLE: 5GM SAMPLE #49912 CASE# GEN.TEST BLK#2
ENHANCED (S 15B 2N)

DATA: GH049912B12 #134 BASE M/E: 49/ 49
RIC: 11631./ 10:55.



CASE#: GEN. TEST DUE DATE:

VOA
GC/MS WORKSHEET COMPUCHEM#: 49912

R[ ] R2[ ] D[ ] (:1)
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code---155
Instrument Code---257
Compound List---146
Surrogate Std---394
Internal Std---036

SAS: EPA#: BLANK # 2 Dry Weight Factor H2O

GC/MS ANALYSIS

Amount Purged: [✓] 10mls/Xg soil or [ ]Dilution_____ul/10000ul/Xg soil
Internal Standard Volume Added 5.0 ul
Surrogate Standard Volume Added 5.0 ul
BFB Filename BFB05072.12 Disk(128)
Blank Filename GBSS072A12 Disk ( )
Standard Filename GSS5072A12 Disk ( )
Sample Filename GH04992B12 Disk (129)

ANALYST(S): Injection JS Work-up JS

GC/MS REVIEW

CONDITION CODE: 01

Entry Codes OK,EA,ES,SM,JS,SL,SN,JA,DA

Non-Entry Codes IM,IL,IN,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VC,FO,MS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reprep neat required

[ ] Reprep using_____g

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS:

GC/MS Review JSH Date 5/8/85 Auditor_____Date__/__/__

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): G4049912B12/_____

QA COMMENTS:

Initials_____ Date__/__/__

FINAL REVIEW: Initials_____ Date__/__/__

5/8/85

EPASOLID (11/84)

received 5/9/85

Volatile - Low Level Solid

NO	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detection Limit (ug/kg)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	6.T		6.7	5.0
7	252	___	ACETONE (2-PROPANONE)			BDL	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	22E	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
,	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	20T	___	CHLOROBENZENE			BDL	5.0
36	21?	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

Volatile - Low Level Solid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	51.1	50.0	102.0	50-160	X	
41		BROMOFLUOROBENZENE	52.7	50.0	105.0	50-160	X	
42		DB-TOLUENE	64.1	50.0	128.0	50-160	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P P

Internal Standard (#1) Bromochloromethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5.0\ g}{\text{Wet Weight of Sample (g)}} \times \text{CC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ g}{5.0\ (g)} \times \frac{1.0}{1.0} \times \frac{1.0}{1.0} = 1.000$$

Quant Report Amount Spiked Conversion Factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1

(13)

(19)

VOLATILE PREP WORKSHEET

№ 1192

ASSIGNED TO Ron

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens L10	S	L	M	Comments
~~49296~~	~~-155~~	~~gen Tut~~			~~5.00g.~~	~~5-6-85~~					
49818					5.00g.			/			
49823			BS		Blank						
49824			SS	49828	5.03g.			/			
49825			SS	49828	5.05g.			/			
49827					5.00g.			/			
49828					5.01g.			/			
49829					5.01g.			/			
49830					5.09g.			/			
49831					5.04g.			/			
49859					5.10g.			/			
49860					5.00g.	↓		/			
49911			B		10ml	5-6-85	/				
49912			B		Blank	↓					
			B								

Surrogate No. ____________

Amount ____________

Lot ____________

Extracts Received 5/6/85 BD

Schedule Reference 299/308 ✓

Manual Counter 278/344 ✓

issued 5/7 PM

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
4F919

Organics Analysis Data Sheet
(Page 2)

Laboratory Name: CompuChem

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 5-17-87
Date analyzed: 5-19-87
Dilution Factor: 1.00

CAS Number		ug/kg		CAS Number		ug/kg	
62-75-9	N-Nitrosodimethylamine	340	U	99-09-2	3-Nitroaniline	170	U
108-95-2	Phenol	340	U	83-32-9	Acenaphthene	340	U
62-53-3	Aniline	340	U	51-28-5	2,4-Dinitrophenol	1700	U
111-44-4	bis(2-Chloroethyl) ether	340	U	100-02-7	4-Nitrophenol	1700	U
95-57-8	2-Chlorophenol	340	U	132-64-9	Dibenzofuran	340	U
541-73-1	1,3-Dichlorobenzene	340	U	121-14-2	2,4-Dinitrotoluene	340	U
106-46-7	1,4-Dichlorobenzene	340	U	606-20-2	2,6-Dinitrotoluene	340	U
100-51-6	Benzyl Alcohol	340	U	84-66-2	Diethylphthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U	7005-72-3	4-Chlorophenyl Phenyl ether	340	U
95-48-7	2-Methylphenol	340	U	86-73-7	Fluorene	340	U
39638-32-9	bis(2-Chloroisopropyl) ether	340	U	100-01-6	4-Nitroaniline	1700	U
106-44-5	4-Methylphenol	340	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
621-64-7	N-Nitroso-Dipropylamine	340	U	86-30-6	N-nitrosodiphenylamine (1)	340	U
67-72-1	Hexachloroethane	340	U	101-55-3	4-Bromophenyl Phenyl ether	340	U
98-95-3	Nitrobenzene	340	U	118-74-1	Hexachlorobenzene	340	U
78-59-1	Isophorone	340	U	87-86-5	Pentachlorophenol	1700	U
88-75-5	2-Nitrophenol	340	U	85-01-8	Phenanthrene	340	U
105-67-9	2,4-Dimethylphenol	340	U	120-12-7	Anthracene	340	U
65-85-0	Benzoic Acid	1700	U	84-74-2	Di-n-butylphthalate	340	U
111-91-1	bis(2-Chloroethoxy) Methane	340	U	206-44-0	Fluoranthene	340	U
120-83-2	2,4-Dichlorophenol	340	U	92-87-5	Benzidine	1700	U
120-82-1	1,2,4-Trichlorobenzene	340	U	129-00-0	Pyrene	340	U
91-20-3	Naphthalene	340	U	85-68-7	Butyl Benzyl Phthalate	340	U
106-47-8	4-Chloroaniline	340	U	91-94-1	3,3'-Dichlorobenzidine	680	U
87-68-3	Hexachlorobutadiene	340	U	56-55-3	Benzo(a)anthracene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U	117-81-7	bis(2-ethylhexyl)phthalate	340	U
91-57-6	2-Methylnaphthalene	340	U	218-01-9	Chrysene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U	117-84-0	Di-n-octyl Phthalate	340	U
88-06-2	2,4,6-Trichlorophenol	340	U	205-99-2	Benzo(b)fluoranthene	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U	207-08-9	Benzo(k)fluoranthene	340	U
91-58-7	2-Chloronaphthalene	340	U	50-32-8	Benzo(a)pyrene	340	U
88-74-4	2-Nitroaniline	1700	U	193-39-5	Indeno(1,2,3-cd)pyrene	340	U
131-11-3	Dimethyl Phthalate	340	U	53-70-3	Dibenz(a,h)anthracene	340	U
208-96-8	Acenaphthylene	340	U	191-24-2	Benzo(g,h,i)perylene	340	U

(1) Cannot be separated from Diphenylamine

QUALITY ASSURANCE NOTICE
sample # 4970
fraction 2A

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 1261

QAN10S
850218

SAMPLE NUMBER BL #1

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH049919A15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	625-86-5	FURAN,2,5-DIMETHYL-	SEMI1	183	370.	J
2	108-88-3	BENZENE,METHYL-	SEMI1	264	1900.	J
3	638-04-0	CYCLOHEXANE,1,3-DIMETHYL-,CIS-	SEMI1	279	750.	J
4	15870-10-7	1-HEPTENE,2-METHYL-	SEMI1	293	600.	J
5	6876-23-9	CYCLOHEXANE,1,2-DIMETHYL-,TRANS-	SEMI1	301	370.	J
6	111-65-9	OCTANE	SEMI1	308	2900.	J
7	1678-91-7	CYCLOHEXANE,ETHYL-	SEMI1	341	1800.	J
8	123-42-2	2-PENTANONE,4-HYDROXY-4-METHYL-	SEMI1	348	5100.	J
9	1839-63-0	CYCLOHEXANE,1,3,5-TRIMETHYL-	SEMI1	360	480.	J
10	3074-71-3	HEPTANE,2,3-DIMETHYL-	SEMI1	366	910.	J
11	2216-34-4	OCTANE,4-METHYL-	SEMI1	374	1900.	J
12	2216-33-3	OCTANE,3-METHYL-	SEMI1	381	2200.	J
13	53941-19-8	2-HEXENE,3,4,4-TRIMETHYL-	SEMI1	394	400.	J

33.900 40.00

SPECTROSCOPIST _____

DATE _____

SAMPLE NUMBER BL #1

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH049919A15

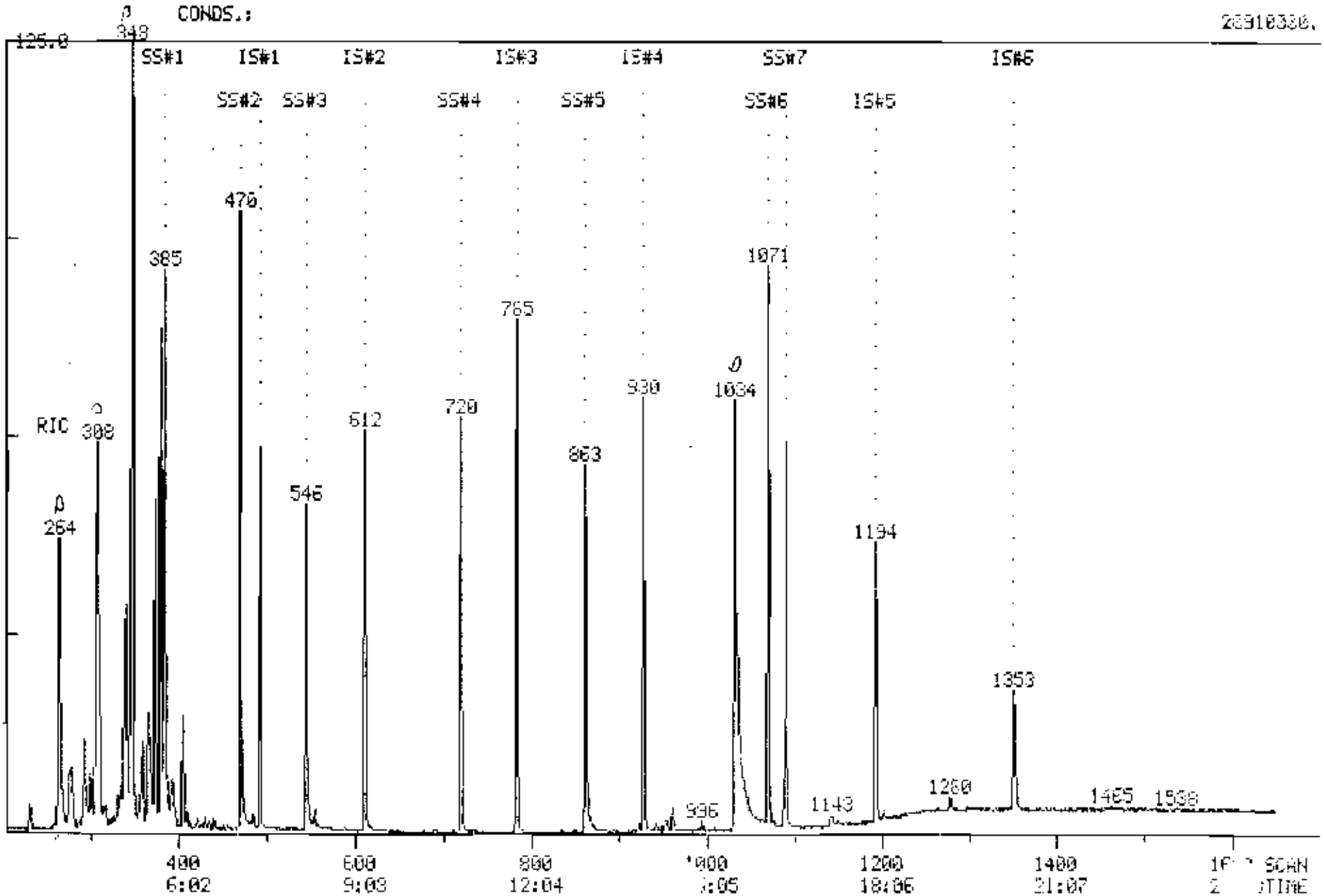
TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
4	111-84-2	NONANE	SEMI1	405	600.	J
5	629-74-3	1-HEXADECYNE Lab Artifact	SEMI1	1034	2800.	J

33.900 40.00

SPECTROSCOPIST _____

DATE _____


COMPUCHEM LABS
RIC
05/18/85 17:10:20
SAMPLE: 1 UL CC#49319(5-7-85) CASE#GEN TEST BL#1
CONDS.:
COMPUCHEM DATA: GH049S19A15 SCANS 201 TO 1653
OUT OF 201 TO 1653
28810336.
125.0
348
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
470
385
1071
765
930
1034
720
612
RIC
308
863
546
264
1194
1353
1260
1485
1508
936
1143
400
6:02
600
9:03
800
12:04
1000
15:05
1200
18:06
1400
21:07
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/18/85 17:33:58
DATA FILE: GH049919A15
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

---- STANDARDS -----				--- PLUS UNKNOWNS ---				- LIST NAMES -
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	60	53	8	1	49	SEMI1S1/SEMI1U1
4	4	2	96	29	7	1	82	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 14 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	Q1	1	-494	493	493	.	1	969	.	152	493	.	1
2	Q2	1	-614	613	612	-1	1	991	.	136	612	.	1
3	Q3	1	-786	785	785	.	1	986	.	164	785	.	1
4	Q7	2	-386	385	385	.	1	910	.	112	385	.	1
5	Q1	2	-231	230	.	.	.	.	.	42	230	.	1
6	Q1	3	-472	471	.	.	.	.	.	94	470	.	1
7	Q1	4	-468	467	.	.	.	.	.	93	.	.	.
8	Q1	5	-475	474	.	.	.	.	.	93	.	.	.
9	Q1	6	-479	478	.	.	.	.	.	128	.	.	.
10	Q1	7	-491	490	.	.	.	.	.	146	.	.	.
11	Q1	8	-496	495	.	.	.	.	.	146	.	.	.
12	Q1	9	-511	510	.	.	.	.	.	108	.	.	.
13	Q1	10	-512	511	.	.	.	.	.	146	.	.	.
14	Q1	11	-525	524	.	.	.	.	.	108	.	.	.
15	Q1	12	-526	525	.	.	.	.	.	45	523	.	2
16	Q1	13	-538	537	.	.	.	.	.	108	.	.	.
17	Q1	14	-538	537	.	.	.	.	.	70	539	.	1
18	Q1	15	-542	541	.	.	.	.	.	117	.	.	.
19	Q1	16	-549	548	.	.	.	.	.	77	546	.	3
20	Q2	2	-572	571	.	.	.	.	.	82	570	.	3
21	Q2	3	-579	578	.	.	.	.	.	139	.	.	.
22	Q2	4	-587	586	.	.	.	.	.	122	.	.	.
23	Q2	5	-601	600	.	.	.	.	.	122	.	.	.
24	Q2	6	-595	594	.	.	.	.	.	93	.	.	.
25	Q2	7	-603	602	.	.	.	.	.	162	.	.	.
26	Q2	8	-611	610	.	.	.	.	.	180	.	.	.
27	Q2	9	-616	615	.	.	.	.	.	128	.	.	.
28	Q2	10	-623	622	.	.	.	.	.	127	.	.	.
29	Q2	11	-636	635	.	.	.	.	.	225	.	.	.
30	Q2	12	-673	672	.	.	.	.	.	107	.	.	.
31	Q2	13	-683	682	.	.	.	.	.	142	.	.	.
32	Q3	2	-707	706	.	.	.	.	.	237	.	.	.
33	Q3	3	-714	713	.	.	.	.	.	196	.	.	.
34	Q3	4	-718	717	.	.	.	.	.	196	.	.	.
35	Q3	5	-730	729	.	.	.	.	.	162	.	.	.
36	Q3	6	-743	742	.	.	.	.	.	65	.	.	.
37	Q3	7	-766	765	.	.	.	.	.	163	764	.	1
38	Q3	8	-771	770	.	.	.	.	.	152	.	.	.
39	Q3	9	-743	742	.	.	.	.	.	138	.	.	.
40	Q3	10	-789	788	.	.	.	.	.	153	.	.	.
41	Q3	11	-796	795	.	.	.	.	.	184	.	.	.
42	Q3	12	-805	804	.	.	.	.	.	139	.	.	.
43	Q3	13	-805	804	.	.	.	.	.	168	.	.	.
44	Q3	14	-809	808	.	.	.	.	.	89	.	.	.
45	Q3	15	-770	769	.	.	.	.	.	165	.	.	.
46	Q3	16	-835	834	.	.	.	.	.	149	834	.	1
47	Q3	17	-840	839	.	.	.	.	.	204	.	.	.
48	Q3	18	-839	838	.	.	.	.	.	166	.	.	.
49	Q3	19	-846	845	.	.	.	.	.	138	.	.	.

51	G7	4	-547	546	546	.	1	972	.	82	546	.	1
52	G7	5	-722	721	720	-1	1	975	.	172	720	.	1
53	G7	6	-864	863	863	.	1	923	.	141	863	.	1
54	G4	1	-931	930	930	.	1	973	.	188	930	.	1
55	G5	1	-1194	1193	1194	1	1	951	.	240	1193	-1	1
56	G6	1	-1355	1354	1353	-1	2	996	.	264	1353	.	1
57	G4	2	-849	848	.	.	.	.	.	198	.	.	.
58	G4	3	-852	851	.	.	.	.	.	169	852	.	1
59	G4	4	-887	886	.	.	.	.	.	248	.	.	.
60	G4	5	-901	900	.	.	.	.	.	284	.	.	.
61	G4	6	-920	919	.	.	.	.	.	266	.	.	.
62	G4	7	-933	932	.	.	.	.	.	178	932	.	1
63	G4	8	-937	936	.	.	.	.	.	178	.	.	.
64	G4	9	-997	996	.	.	.	.	.	149	996	.	1
65	G4	10	-1051	1050	.	.	.	.	.	202	1051	.	1
66	G5	2	-1072	1071	.	.	.	.	.	184	1071	.	1
67	G5	3	-1073	1072	.	.	.	.	.	202	1072	.	1
68	G5	4	-1143	1142	.	.	.	.	.	149	1143	.	1
69	G5	5	-1192	1191	.	.	.	.	.	252	.	.	.
70	O5	6	-1193	1192	.	.	.	.	.	228	1193	.	1
71	O5	7	-1204	1203	1204	1	1	969	.	149	1204	.	1
72	G5	8	-1197	1196	.	.	.	.	.	228	1193	.	1
73	G6	2	-1265	1264	.	.	.	.	.	149	1264	.	1
74	G6	3	-1309	1308	.	.	.	.	.	252	1310	.	1
75	G6	4	-1309	1308	.	.	.	.	.	252	1310	.	1
76	O6	5	-1347	1346	.	.	.	.	.	252	1347	.	1
77	G6	6	-1536	1535	.	.	.	.	.	276	1537	.	2
78	G6	7	-1540	1539	.	.	.	.	.	278	1540	.	1
79	G6	8	-1589	1588	.	.	.	.	.	276	1589	.	1
80	G7	7	-1091	1090	1091	1	1	994	.	244	1090	-1	1
81	G8	2	-1072	1071	1071	.	1	972	.	212	1071	.	1

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI1 FILENAME: GH049919A15 DATE: 05/18/85
SHIFT STD: HHB50518A15 TIME: 17:10

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	1848920.	1825850.	1.	PASS
*460 D8-NAPHTHALENE (IS#2)	7051740.	7095390.	-0.	PASS
*495 D10-ACENAPHTHENE (IS#3)	3725750.	3745180.	-0.	PASS
*467 D10-PHENANTHRENE (IS#4)	6168540.	5973910.	3.	PASS
*459 D12-CHRYSENE (IS#5)	3493050.	3493340.	0.	PASS
*497 D12-PERYLENE (IS#6)	2315320.	3349760.	-30.	PASS

QUANTITATION REPORT FILE: GH049919A15

DATA: GH049919A15.TI
05/18/85 17:10:00
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1
CONDS. :
SUBMITTED BY: 15 ANALYST: 875

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
1	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
5	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	493	7:26	1	1.000	A BV	1848920.	40.000 NG	5.13
2	42	230	3:28	1	0.467	A VV	61729.	1.371 NG	0.18
3	94	470	7:05	1	0.953	A BB	20160.	0.195 NG	0.02
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	NOT FOUND							
7	146	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	523	7:53	1	1.061	A*VV	82040.	0.493 NG	0.06
13	108	NOT FOUND							
14	70	539	8:08	1	1.093	A BB	2656.	0.033 NG	0.00
15	117	NOT FOUND							
16	77	546	8:14	1	1.108	A*BB	18464.	0.170 NG	0.02
17	136	612	9:14	17	1.000	A BV	7051740.	40.000 NG	5.13
18	82	570	8:36	17	0.931	A*VV	29216.	0.152 NG	0.02
19	139	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	NOT FOUND								
21	122	NOT FOUND								
22	93	NOT FOUND								
23	162	NOT FOUND								
4	180	NOT FOUND								
25	128	NOT FOUND								
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	NOT FOUND								
29	142	NOT FOUND								
30	164	785	11:50	30	1.000	A BV	3725750.	40.000	NG	5.13
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	NOT FOUND								
36	163	764	11:31	30	0.973	A BB	5088.	0.039	NG	0.00
37	152	NOT FOUND								
38	138	NOT FOUND								
39	153	NOT FOUND								
40	184	NOT FOUND								
41	139	NOT FOUND								
42	168	NOT FOUND								
43	89	NOT FOUND								
44	165	NOT FOUND								
45	149	834	12:35	30	1.062	A BV	12416.	0.082	NG	0.01
46	204	NOT FOUND								
47	166	NOT FOUND								
48	138	NOT FOUND								
49	188	930	14:01	49	1.000	A BV	6168540.	40.000	NG	5.13
0	198	NOT FOUND								
51	169	852	12:51	49	0.916	A BB	20768.	0.270	NG	0.03
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	NOT FOUND								
55	178	932	14:03	49	1.002	A BB	3680.	0.025	NG	0.00
56	178	NOT FOUND								
57	149	996	15:01	49	1.071	A BB	73216.	0.297	NG	0.04
58	202	1051	15:51	49	1.130	A BB	21696.	0.130	NG	0.02
59	240	1193	17:59	59	1.000	A VV	3493050.	40.000	NG	5.13
60	184	1071	16:09	59	0.898	A BB	88128.	46.073	NG	5.90M
61	202	1072	16:10	59	0.899	A BB	34400.	0.227	NG	0.03
62	149	1143	17:14	59	0.958	A BB	14400.	0.155	NG	0.02
63	252	NOT FOUND								
64	228	1193	17:59	59	1.000	A BB	15360.	0.129	NG	0.02
65	149	1204	18:09	59	1.009	A VV	100032.	0.760	NG	0.10
66	228	1193	17:59	59	1.000	A BB	15360.	0.151	NG	0.02
67	264	1353	20:24	67	1.000	A VV	2315320.	40.000	NG	5.13
68	149	1264	19:04	67	0.934	A VV	34802.	0.262	NG	0.03
69	252	1310	19:45	67	0.968	A BV	16768.	0.243	NG	0.03
70	252	1310	19:45	67	0.968	A BV	16768.	0.243	NG	0.03
71	252	1347	20:19	67	0.996	A BV	7296.	0.118	NG	0.02
72	276	1537	23:11	67	1.136	A*BV	8192.	0.121	NG	0.02
73	278	1540	23:13	67	1.138	A BB	13184	0.239	NG	0.03
74	276	1589	23:58	67	1.174	A BB	11360.	0.206	NG	0.03
5	112	385	5:48	1	0.781	A VV	5600470.	103.545	NG	13.27

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	470	7:05	1	0.953	A BV	8695930.	103.914	NG	13.31
77	82	546	8:14	17	0.892	A BV	4425430.	44.188	NG	5.66
78	172	720	10:51	30	0.917	A BV	4901530.	44.233	NG	5.67
79	141	863	13:01	30	1.099	A BV	839488.	87.242	NG	11.18
80	244	1090	16:26	59	0.914	A BV	5747230.	52.745	NG	6.76
81	212	1071	16:09	59	0.898	A VV	7352440.	52.415	NG	6.72

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:27	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:29	1.00	10.000	0.05	1.37	50.00	0.027	0.974	0.03
3	7:07	1.00	10.000	0.10	0.19	50.00	0.009	2.241	0.00
4	7:03		10.000			50.00		1.927	
5	7:10		10.000			50.00		2.022	
6	7:13		10.000			50.00		1.487	
7	7:24		10.000			50.00		1.590	
8	7:29		10.000			50.00		1.620	
9	7:42		10.000			50.00		0.979	
10	7:43		10.000			50.00		1.545	
11	7:55		10.000			50.00		1.333	
12	7:56	0.99	10.000	0.11	0.49	50.00	0.035	3.603	0.01
13	8:07		10.000			50.00		1.580	
14	8:07	1.00	10.000	0.11	0.03	50.00	0.001	1.750	0.00
15	8:10		10.000			50.00		0.910	
16	8:17	0.99	10.000	0.11	0.17	50.00	0.008	2.345	0.00
17	9.16	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:38	1.00	10.000	0.09	0.15	50.00	0.003	1.088	0.00
19	8:44		10.000			50.00		0.220	
20	8:51		10.000			50.00		0.342	
21	9:04		50.000			50.00		0.120	
22	8:58		10.000			50.00		0.575	
23	9:06		10.000			50.00		0.290	
24	9:13		10.000			50.00		0.029	
25	9:17		10.000			50.00		1.075	
26	9:24		10.000			50.00		0.390	
27	9:35		10.000			50.00		0.184	
28	10:09		10.000			50.00		0.342	
29	10:18		10.000			50.00		0.660	
30	11:51	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:40		10.000			50.00		0.269	
32	10:46		10.000			50.00		0.326	
33	10:50		100.000			50.00		0.350	
34	11:00		10.000			50.00		1.143	
35	11:12		50.000			50.00		0.614	
36	11:33	1.00	10.000	0.10	0.04	50.00	0.001	1.402	0.00
37	11:38		10.000			50.00		1.709	
38	11:12		50.000			50.00		0.456	
39	11:54		10.000			50.00		1.134	
40	12:00		50.000			50.00		0.072	
41	12:08		50.000			50.00		0.922	
42	12:08		10.000			50.00		1.559	
43	12:12		10.000			50.00		0.410	
44	11:37		10.000			50.00		0.297	
45	12:35	1.00	10.000	0.11	0.08	50.00	0.003	1.605	0.00
46	12.40		10.000			50.00		0.505	
47	12:39		10.000			50.00		1.210	
8	12:45		50.000			50.00		0.165	

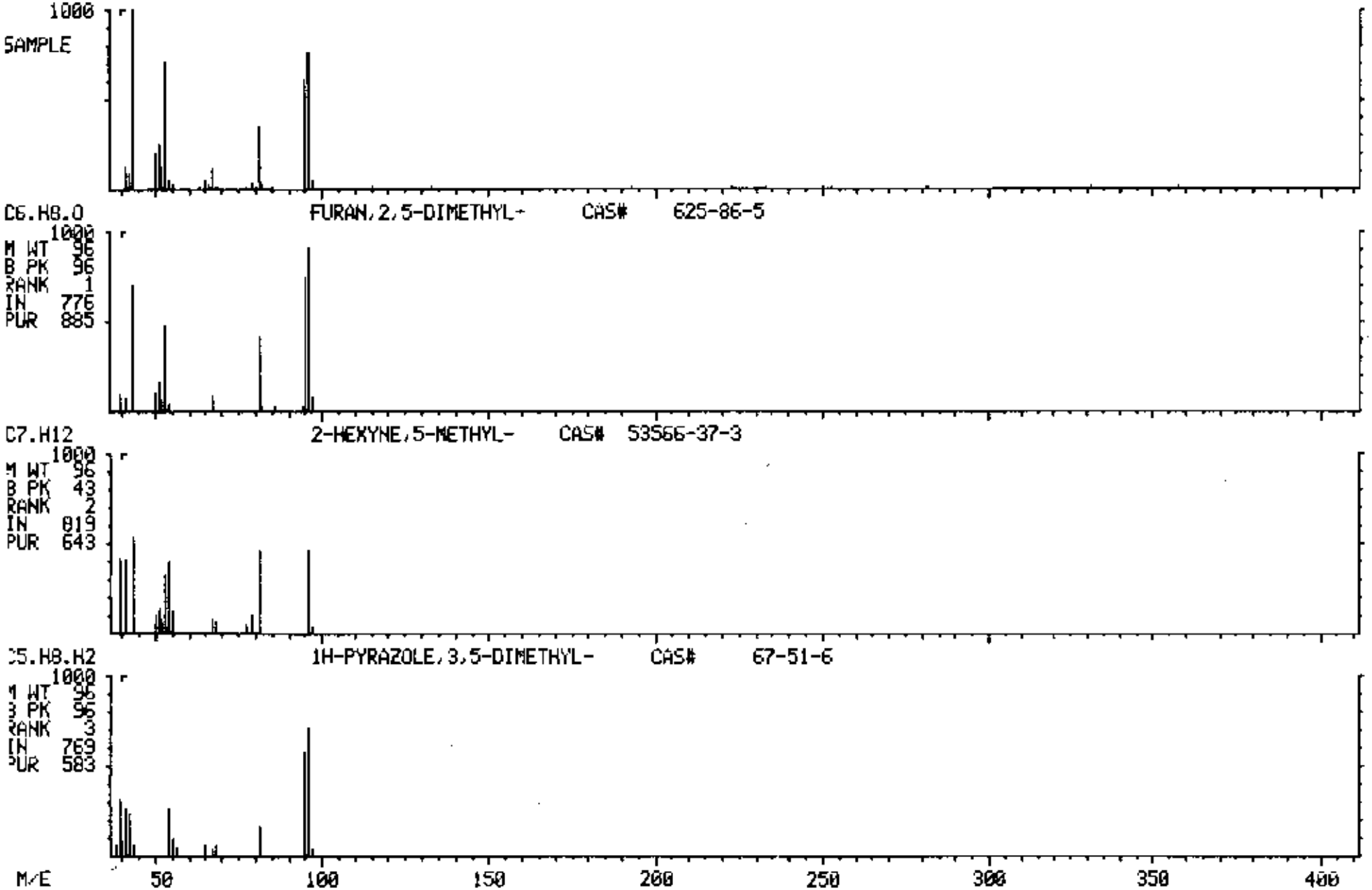
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
49	14:02	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:48		50.000			50.00		0.096	
51	12:51	1.00	10.000	0.09	0.27	50.00	0.003	0.498	0.01
52	13:23		10.000			50.00		0.205	
3	13:35		10.000			50.00		0.247	
54	13:52		50.000			50.00		0.075	
55	14:04	1.00	10.000	0.10	0.02	50.00	0.000	0.971	0.00
56	14:08		10.000			50.00		0.990	
57	15:02	1.00	10.000	0.11	0.30	50.00	0.009	1.601	0.01
58	15:51	1.00	10.000	0.11	0.13	50.00	0.003	1.085	0.00
59	18:00	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:10	1.00	50.000	0.02	46.07	50.00	0.020	0.022	0.92
61	16:11	1.00	10.000	0.09	0.23	50.00	0.008	1.736	0.00
62	17:14	1.00	10.000	0.10	0.15	50.00	0.003	1.066	0.00
63	17:58		20.000			50.00		0.150	
64	17:59	1.00	10.000	0.10	0.13	50.00	0.004	1.360	0.00
65	18:09	1.00	10.000	0.10	0.76	50.00	0.023	1.506	0.02
66	18:03	1.00	10.000	0.10	0.15	50.00	0.004	1.164	0.00
67	20:26	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	19:05	1.00	10.000	0.09	0.26	50.00	0.012	2.298	0.01
69	19:44	1.00	10.000	0.10	0.24	100.00	0.003	1.192	0.00
70	19:44	1.00	10.000	0.10	0.24	100.00	0.003	1.192	0.00
71	20:19	1.00	10.000	0.10	0.12	50.00	0.003	1.072	0.00
72	23:10	1.00	10.000	0.11	0.12	50.00	0.003	1.173	0.00
73	23:13	1.00	10.000	0.11	0.24	50.00	0.005	0.952	0.00
74	23:58	1.00	10.000	0.12	0.21	50.00	0.004	0.952	0.00
75	5:49	1.00	0.742	1.05	103.55	50.00	2.423	1.170	2.07
76	7:06	1.00	0.948	1.01	103.91	50.00	3.762	1.810	2.08
77	8:15	1.00	0.875	1.02	44.19	50.00	0.502	0.568	0.88
79	10:53	1.00	0.906	1.01	44.23	50.00	1.052	1.190	0.88
7	13:02	1.00	1.118	0.98	87.24	50.00	0.100	0.103	1.74
80	16:27	1.00	0.907	1.01	52.75	50.00	1.316	1.248	1.05
81	16:10	1.00	0.906	0.99	52.42	50.00	1.684	1.606	1.05

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 2:46
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 183
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 1312760.



C6.H8.O FURAN,2,5-DIMETHYL- CAS# 625-86-5

M WT 96
B PK 96
RANK 1
IN 776
PUR 885

C7.H12 2-HEXYNE,5-METHYL- CAS# 53566-37-3

M WT 96
B PK 43
RANK 2
IN 819
PUR 643

C5.H8.N2 1H-PYRAZOLE,3,5-DIMETHYL- CAS# 67-51-6

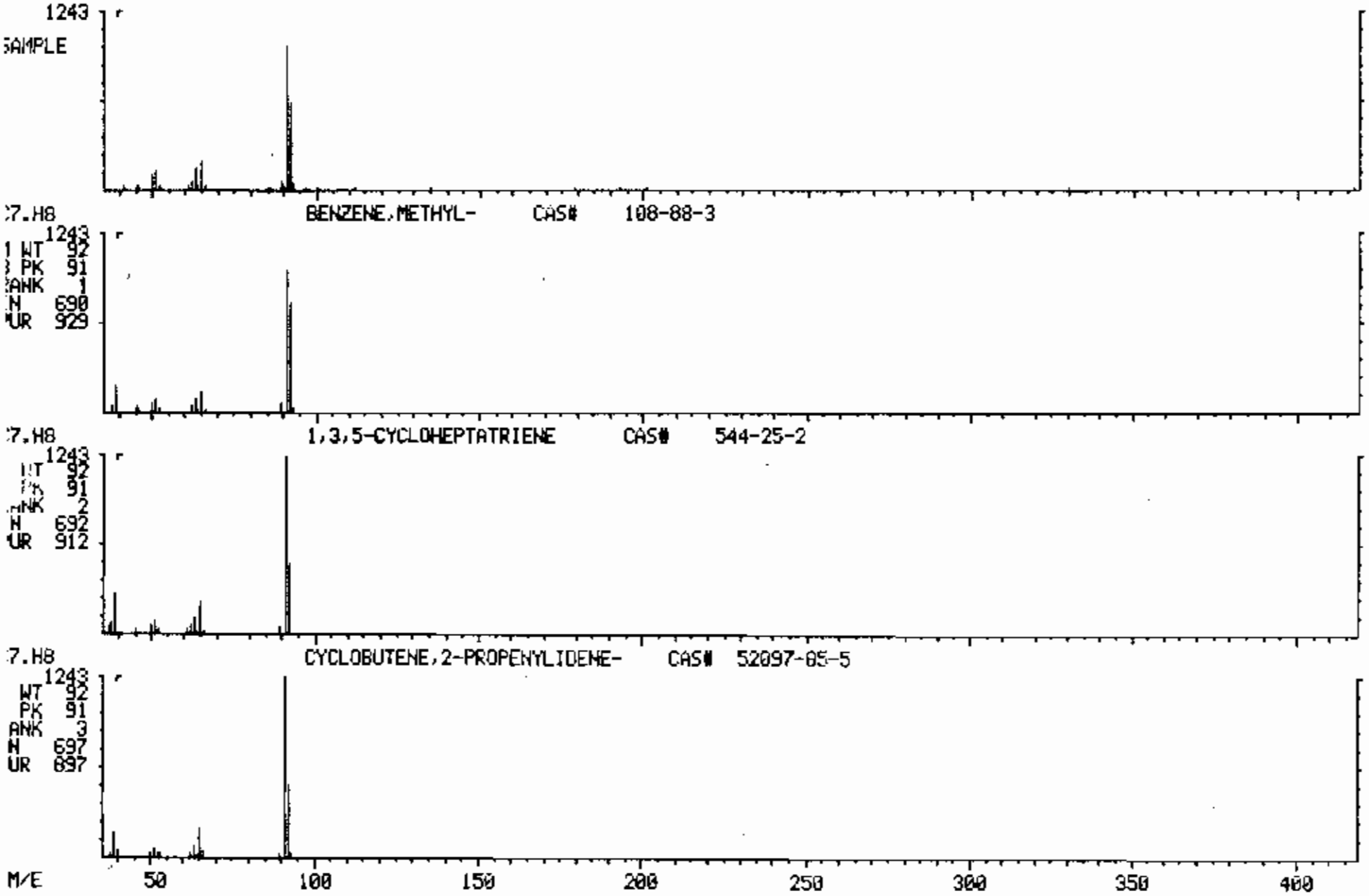
M WT 96
B PK 96
RANK 3
IN 769
PUR 583

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 3:59
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 264
ENHANCED (10B 2N 0T)

BASE M/E: 91
RIC: 5693430.



7.H8 BENZENE,METHYL- CAS# 108-88-3

1243
1 WT 92
PK 91
ANK 1
N 690
UR 929

7.H8 1,3,5-CYCLOHEPTATRIENE CAS# 544-25-2

1243
WT 92
PK 91
ANK 2
N 692
UR 912

7.H8 CYCLOBUTENE,2-PROPENYLIDENE- CAS# 52097-85-5

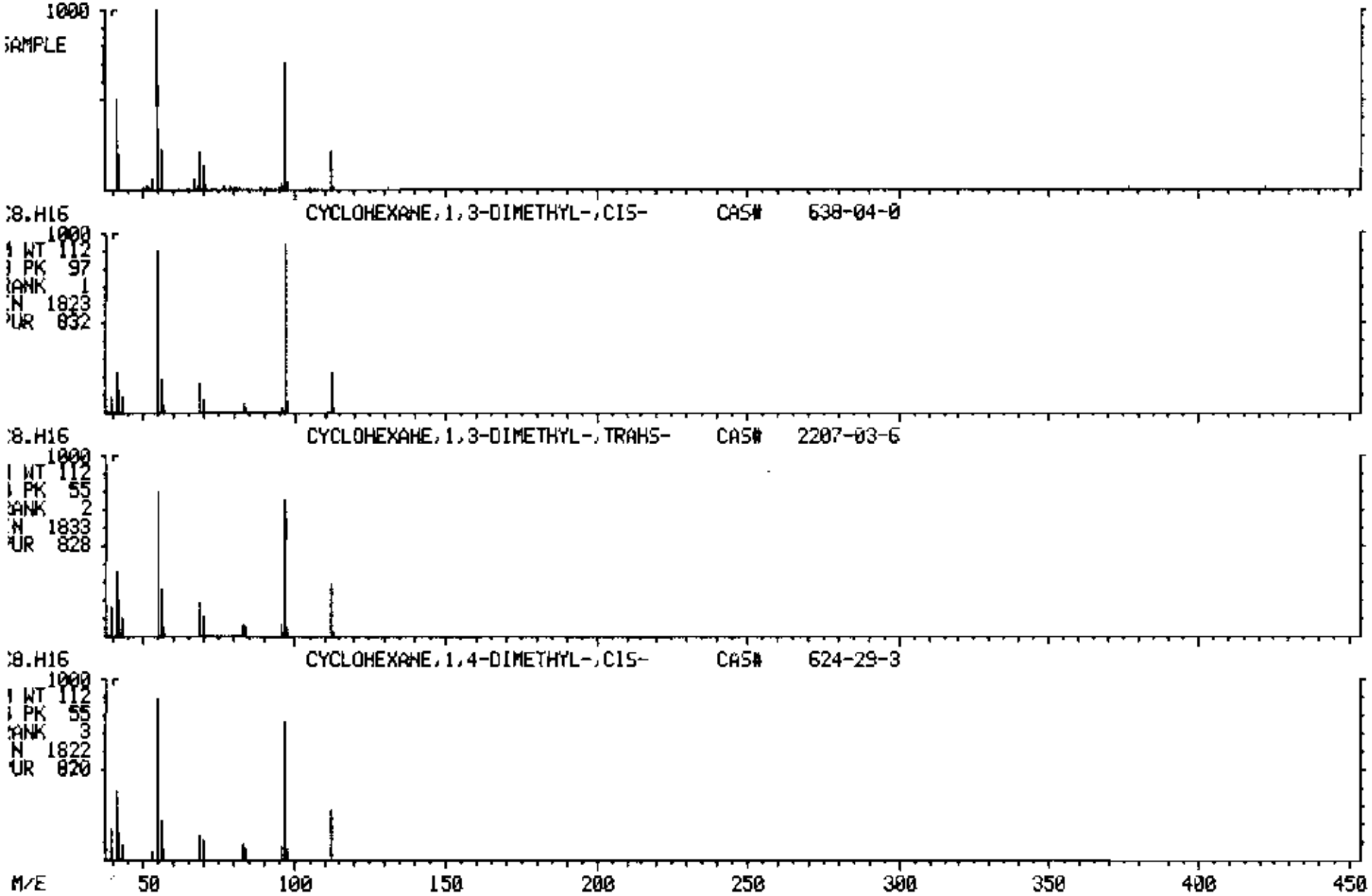
1243
WT 92
PK 91
ANK 3
N 697
UR 897

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 4:12
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 279
ENHANCED (10B 2N 0T)

BASE M/E: 55
RIC: 1089530.



COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:18:00 + 4:25
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 293
ENHANCED (10B 2N 0T)

BASE M/E: 56
RIC: 1638390.

1128

SAMPLE

C8.H16 1-HEPTENE,2-METHYL- CAS# 15870-10-7

1128

1 WT 112
3 PK 56
RANK 1
IN 1856
UR 881

C8.H16 1-HEXENE,2,5-DIMETHYL- CAS# 6975-92-4

1128

WT 112
PK 56
NK 2
N 1851
R 857

C6.H12 CYCLOBUTANE,ETHYL- CAS# 4806-61-5

1128

WT 84
PK 56
ANK 3
N 436
R 812

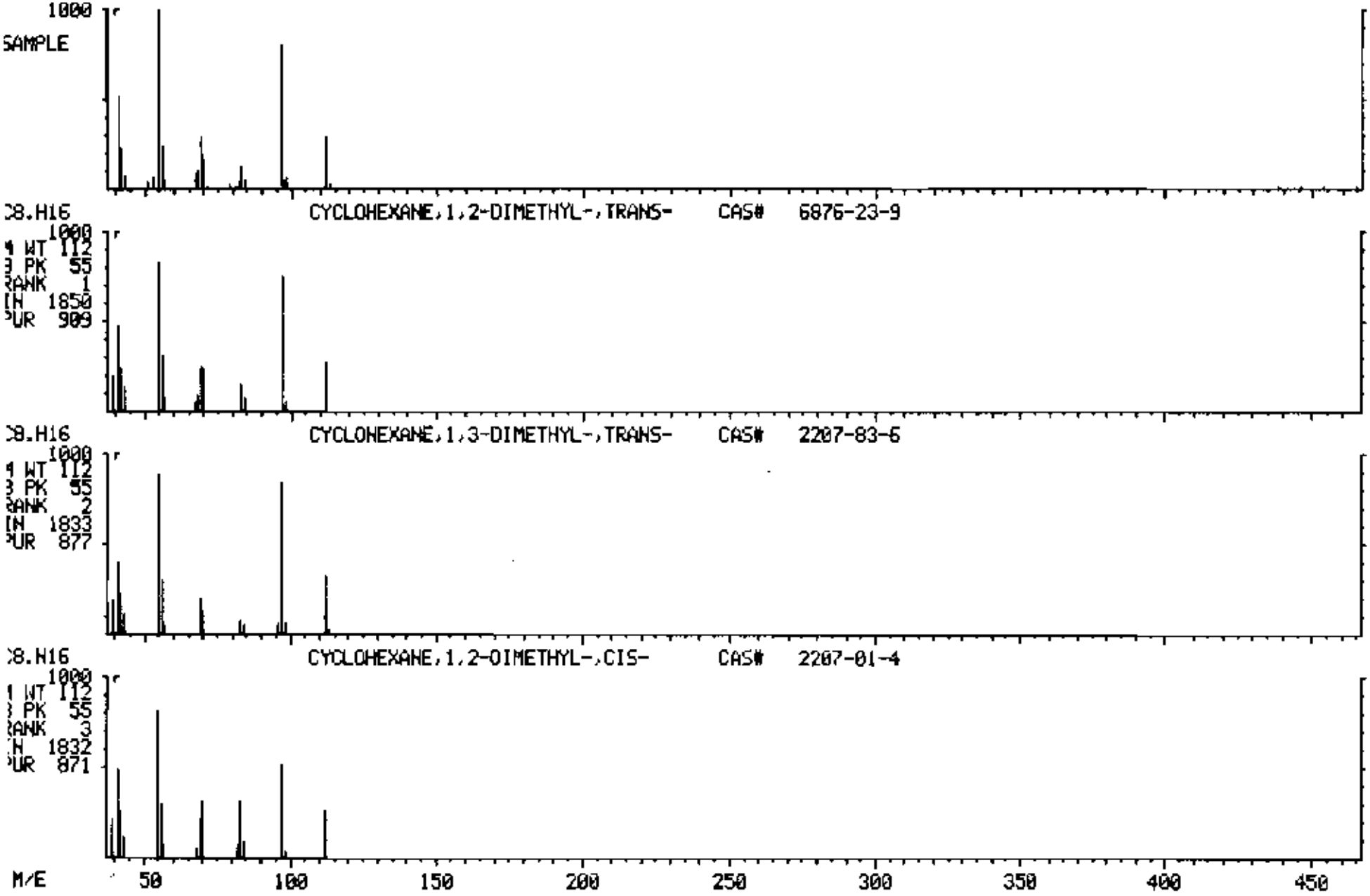
M/E 50 100 150 200 250 300 350 400 450

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 4:32
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST 8L#1

DATA: GH049919A15 # 301
ENHANCED (10B 2N 0T)

BASE M/E: 55
RIC: 873471.



C8.H16 CYCLOHEXANE,1,2-DIMETHYL-,TRANS- CAS# 6876-23-9

1000
WT 112
PK 55
RANK 1
FIT 1850
PUR 909

C8.H16 CYCLOHEXANE,1,3-DIMETHYL-,TRANS- CAS# 2207-83-6

1000
WT 112
PK 55
RANK 2
FIT 1833
PUR 877

C8.H16 CYCLOHEXANE,1,2-DIMETHYL-,CIS- CAS# 2207-01-4

1000
WT 112
PK 55
RANK 3
FIT 1832
PUR 871

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 4:39
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 308
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 7258110.

1230
SAMPLE

C8.H18 OCTANE CAS# 111-65-9

1230
M WT 114
B PK 43
RANK 1
IN 2073
PUR 957

C8.H18 HEXANE,2,4-DIMETHYL- CAS# 589-43-5

1230
M WT 114
B PK 43
RANK 2
IN 2081
PUR 915

C9.H20 HEPTANE,2,4-DIMETHYL- CAS# 2213-23-2

1230
M WT 128
B PK 43
RANK 3
IN 3332
PUR 903

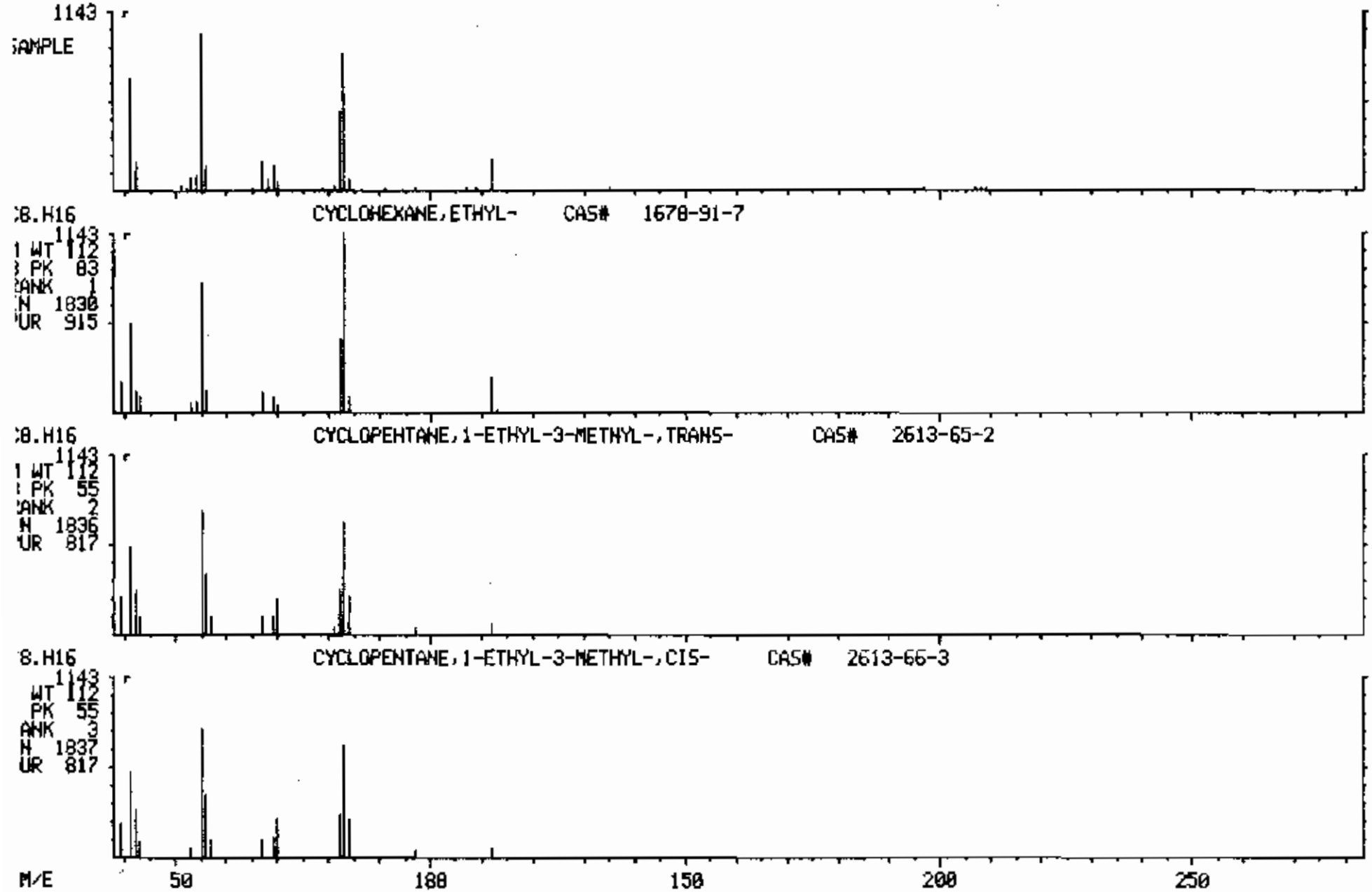
M/E 50 100 150 200 250 300 350 400 450

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:18:00 + 5:09
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 341
ENHANCED (10B 2N 8T)

BASE M/E: 55
RIC: 3878910.

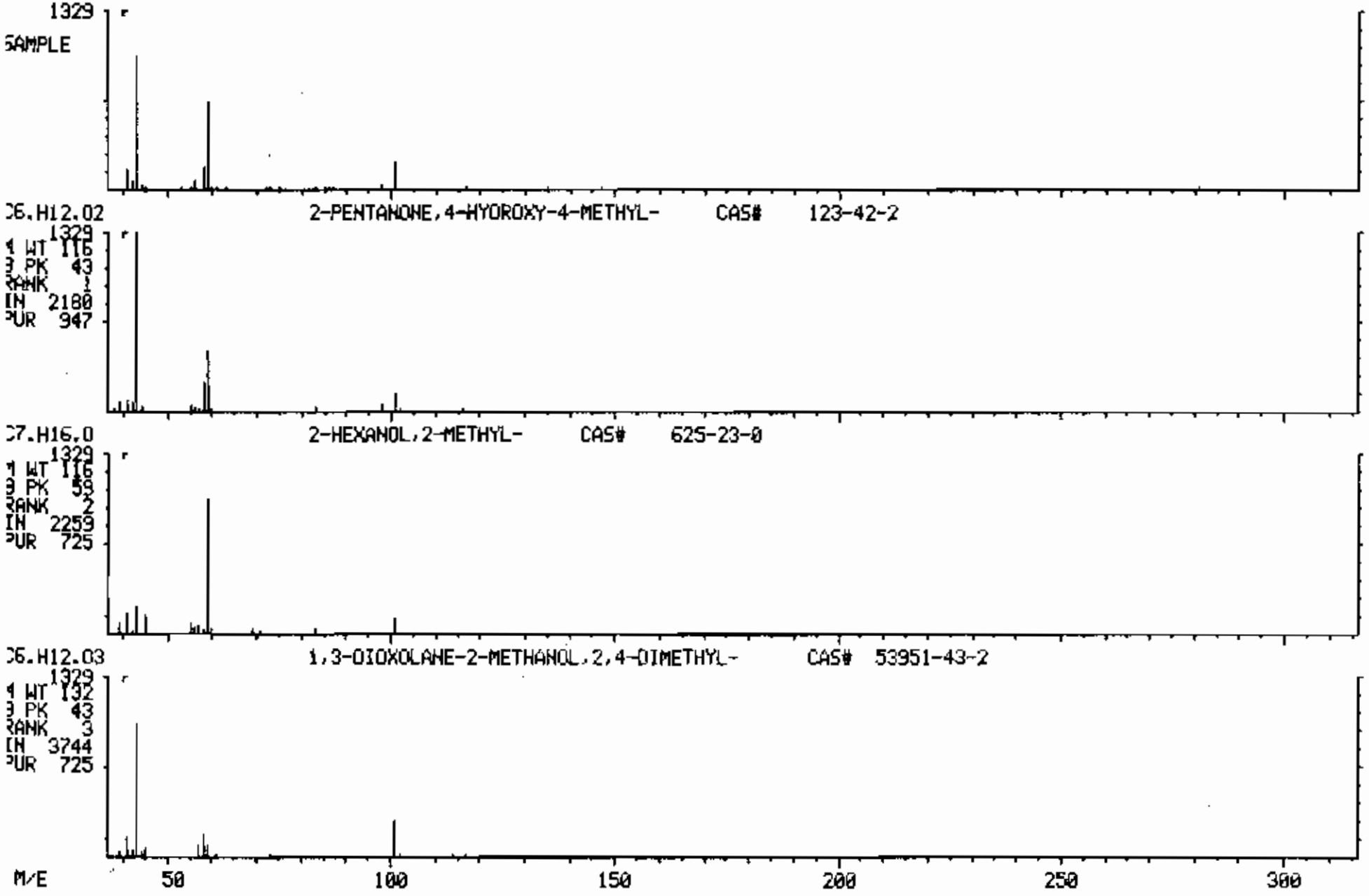


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:15
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 348
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 16285600.

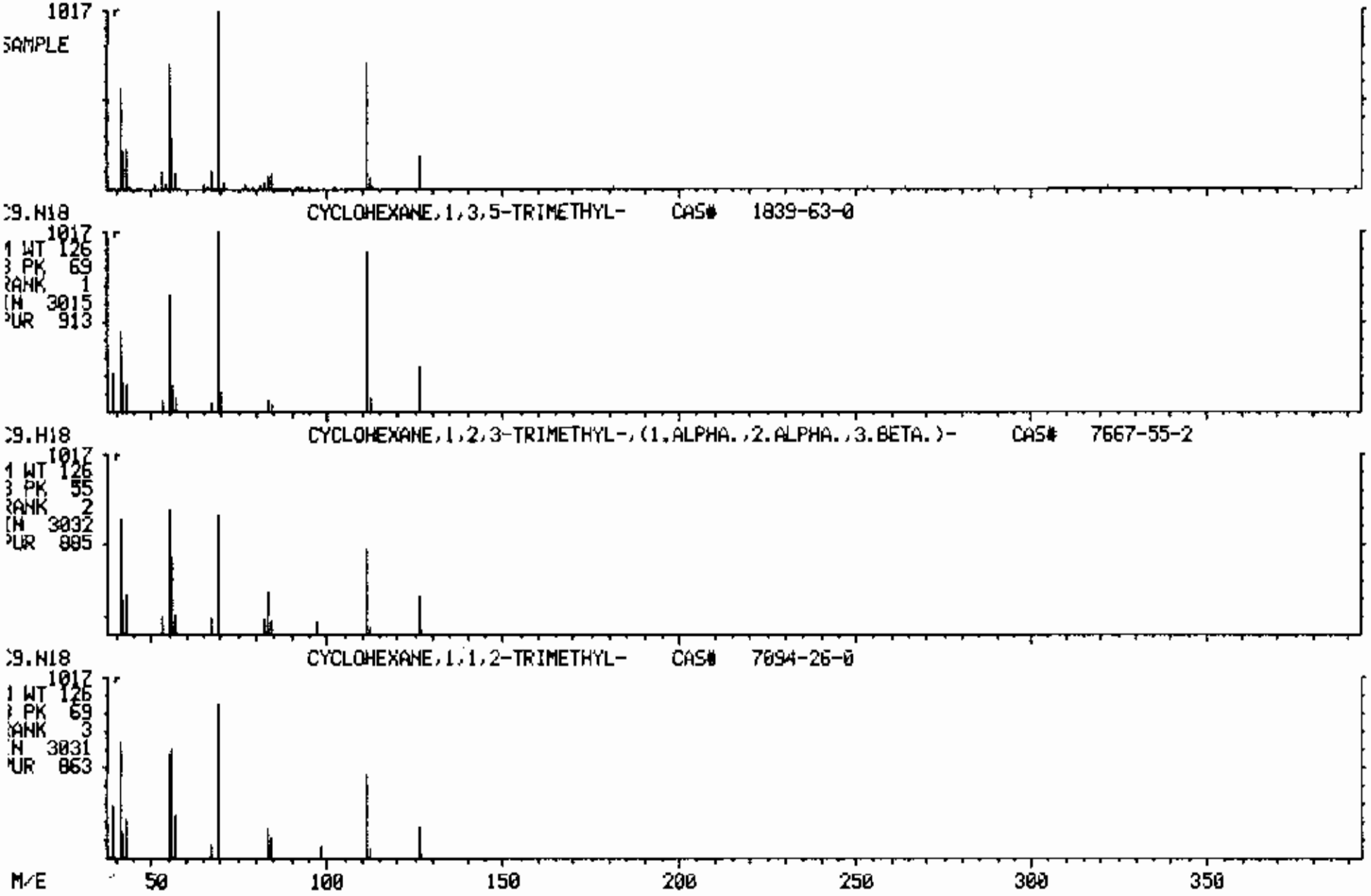


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:26
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 360
ENHANCED (10B 2N 0T)

BASE M/E: 69
RIC: 1593340.



C9.H18 CYCLOHEXANE,1,3,5-TRIMETHYL- CAS# 1839-63-0

1017
1 WT 126
3 PK 69
RANK 1
FIT 3015
PUR 913

C9.H18 CYCLOHEXANE,1,2,3-TRIMETHYL-,(1.ALPHA.,2.ALPHA.,3.BETA.)- CAS# 7667-55-2

1017
1 WT 126
3 PK 55
RANK 2
FIT 3032
PUR 885

C9.H18 CYCLOHEXANE,1,1,2-TRIMETHYL- CAS# 7094-26-0

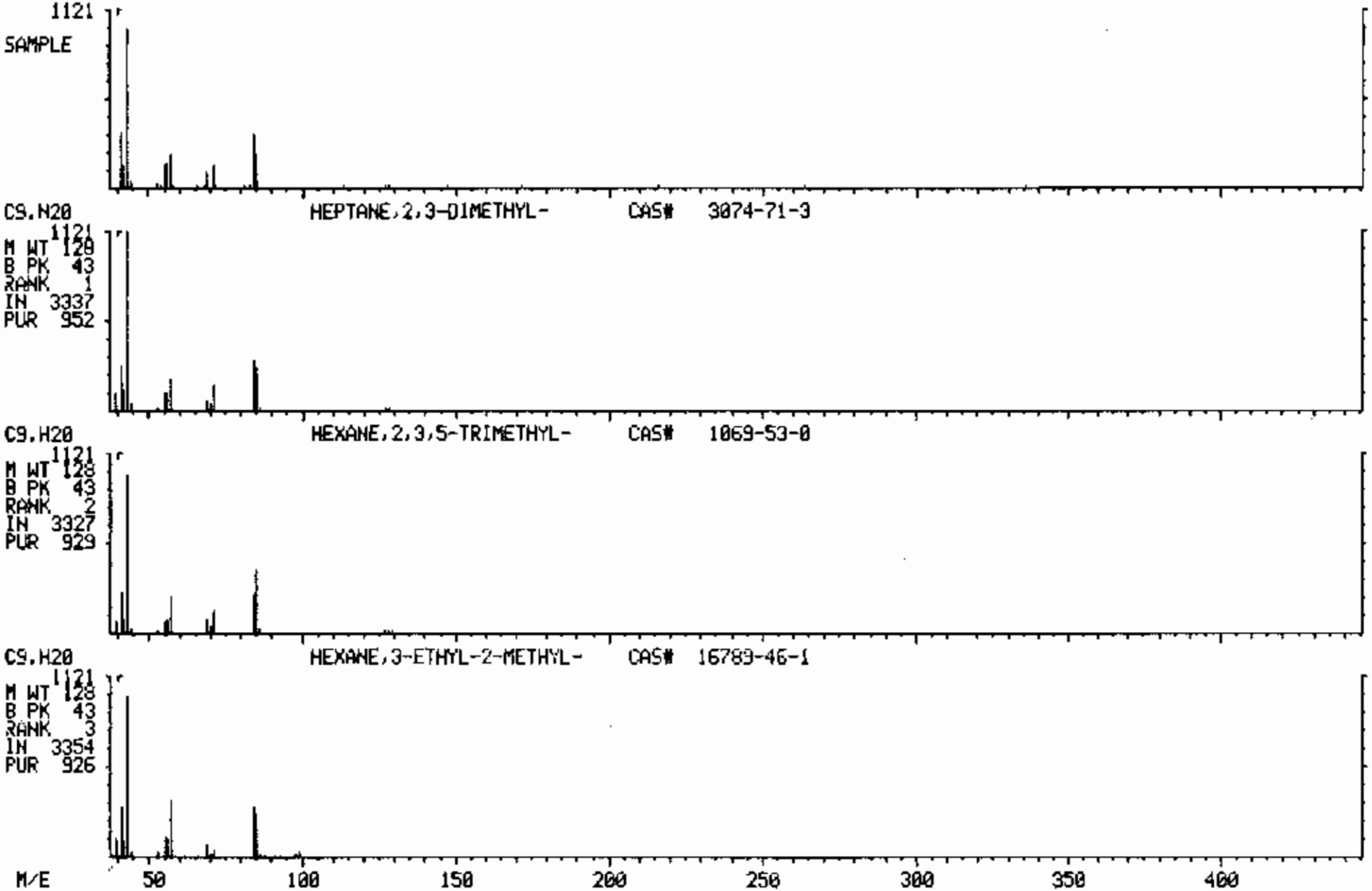
1017
1 WT 126
PK 69
RANK 3
FIT 3031
PUR 863

COMPUCHEM LA0S

LIBRARY SEARCH
05/18/85 17:10:00 + 5:31
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 366
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 2019320.

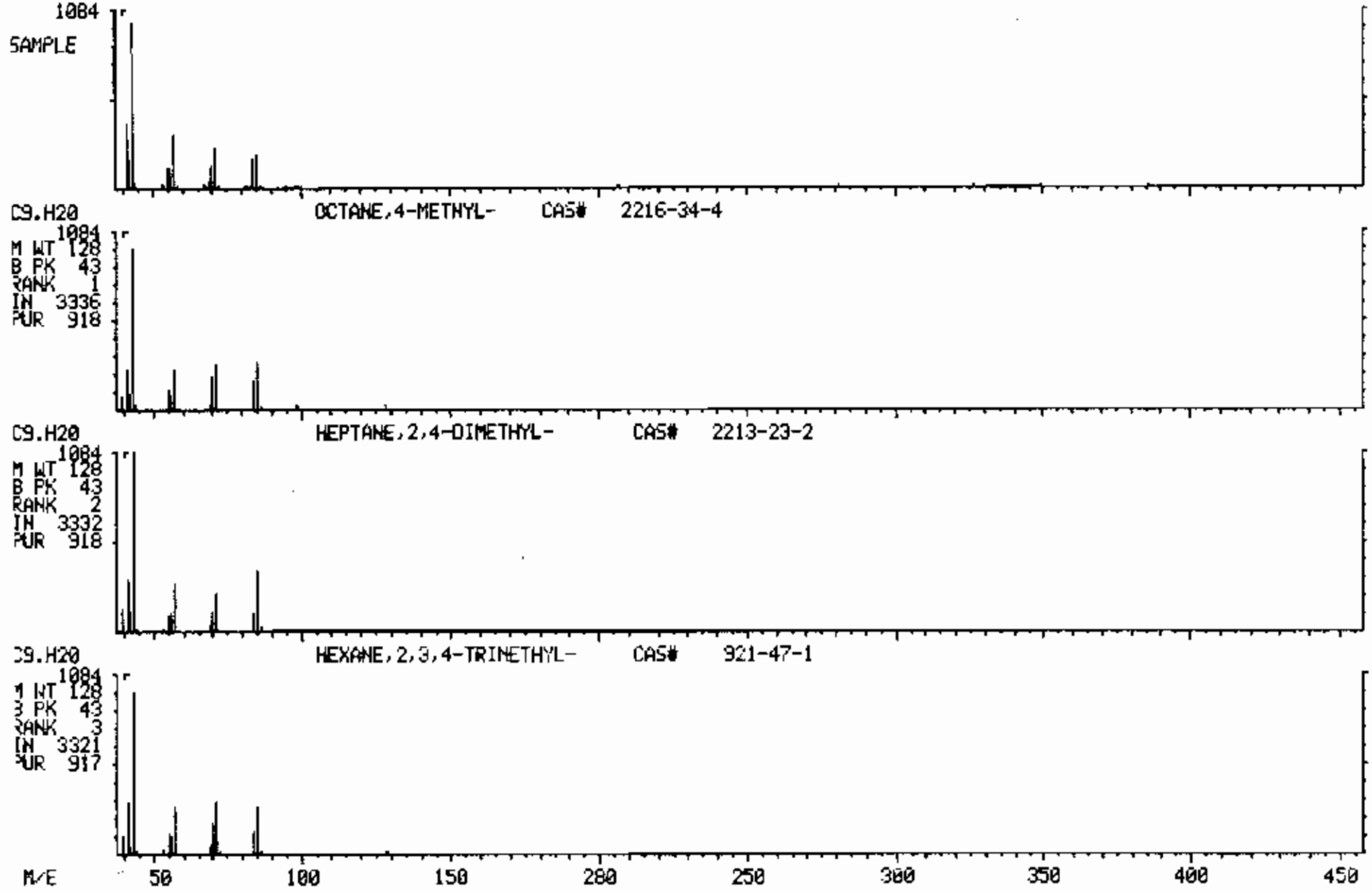


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:38
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 374
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 6701050.

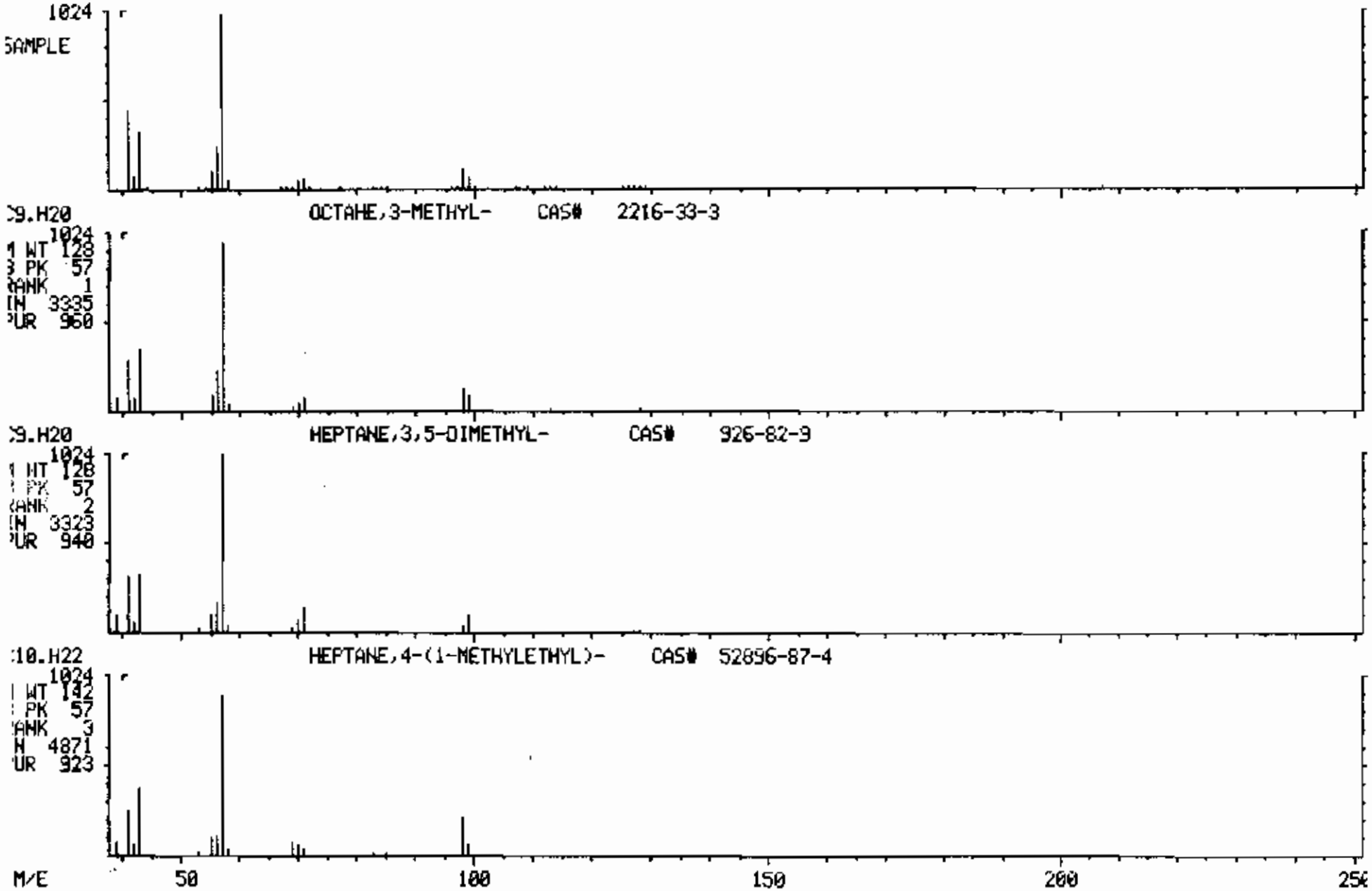


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:45
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST 8L#1

DATA: GH049919A15 # 381
ENHANCED (10B 2N 0T)

BASE M/E: 57
RIC: 9895930.



C9.H20 OCTANE,3-METHYL- CAS# 2216-33-3

1024
1 WT 128
3 PK 57
RANK 1
FIT 3335
PUR 960

C9.H20 HEPTANE,3,5-DIMETHYL- CAS# 926-82-9

1024
1 WT 128
3 PK 57
RANK 2
FIT 3323
PUR 940

C10.H22 HEPTANE,4-(1-METHYLETHYL)- CAS# 52896-87-4

1024
1 WT 142
3 PK 57
RANK 3
FIT 4871
PUR 923

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:56
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEH TEST BL#1

DATA: GH049919A15 # 394
ENHANCED (10B 2H 0T)

BASE M/E: 55
RIC: 814079.

1261

SAMPLE

C9.H18 2-HEXENE,3,4,4-TRIMETHYL- CAS# 53941-19-8

1261

4 WT 126
3 PK 97
RANK 1
CM 3043
PUR 815

C9.H18 3-HEPTENE,4-ETHYL- CAS# 33933-74-3

1261

4 WT 126
3 PK 55
RANK 2
CM 3037
PUR 720

C9.H18 CYCLOHEXANE,1,2,3-TRIMETHYL- CAS# 1678-97-3

1261

4 WT 126
3 PK 55
RANK 3
CM 3012
PUR 716

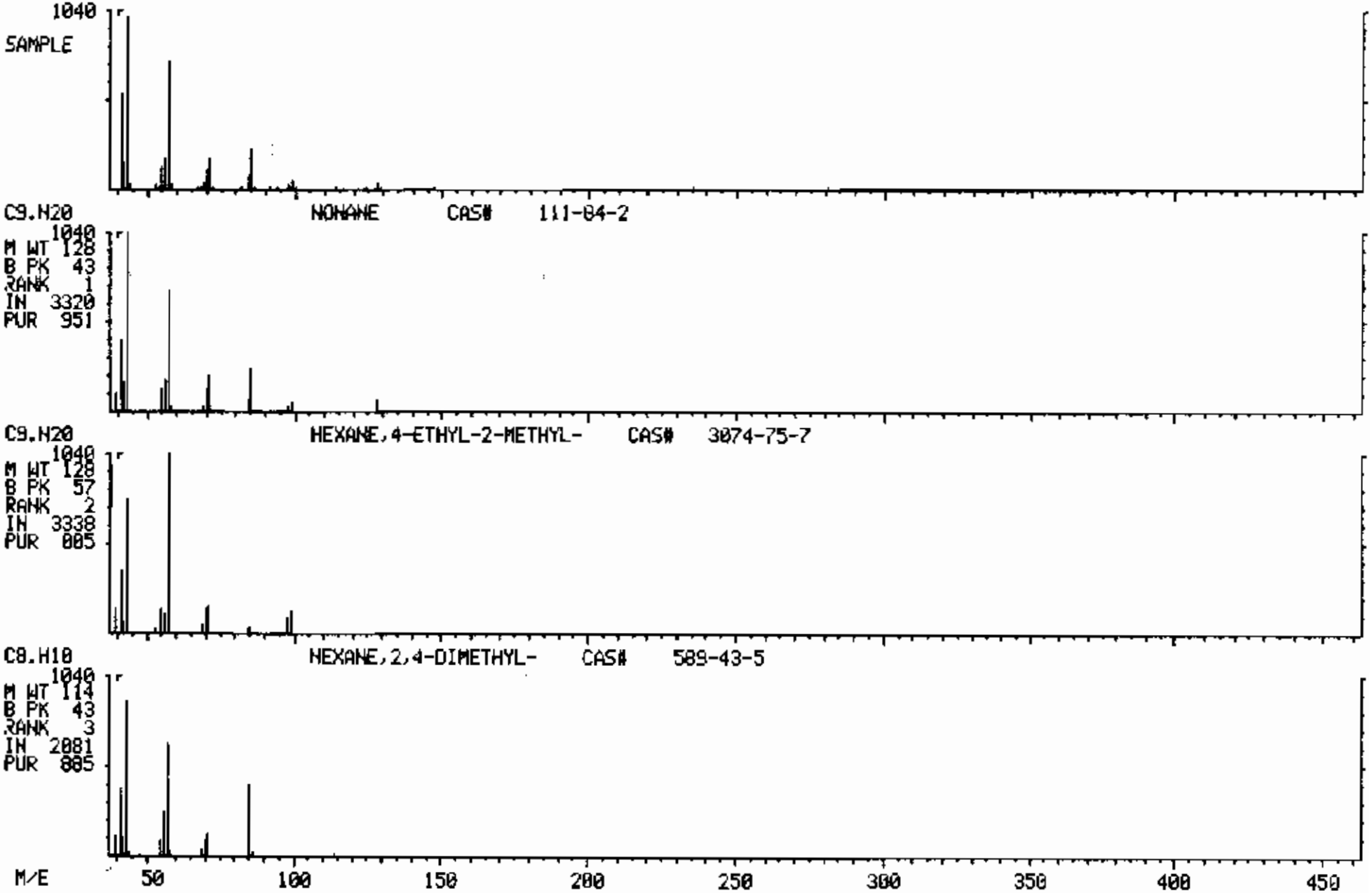
M/E 50 100 150 200 250 300 350 400

COMPUCHEM LABS

LIBRARY SEARCH
05/10/85 17:10:00 + 6:07
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 406
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 2209660.

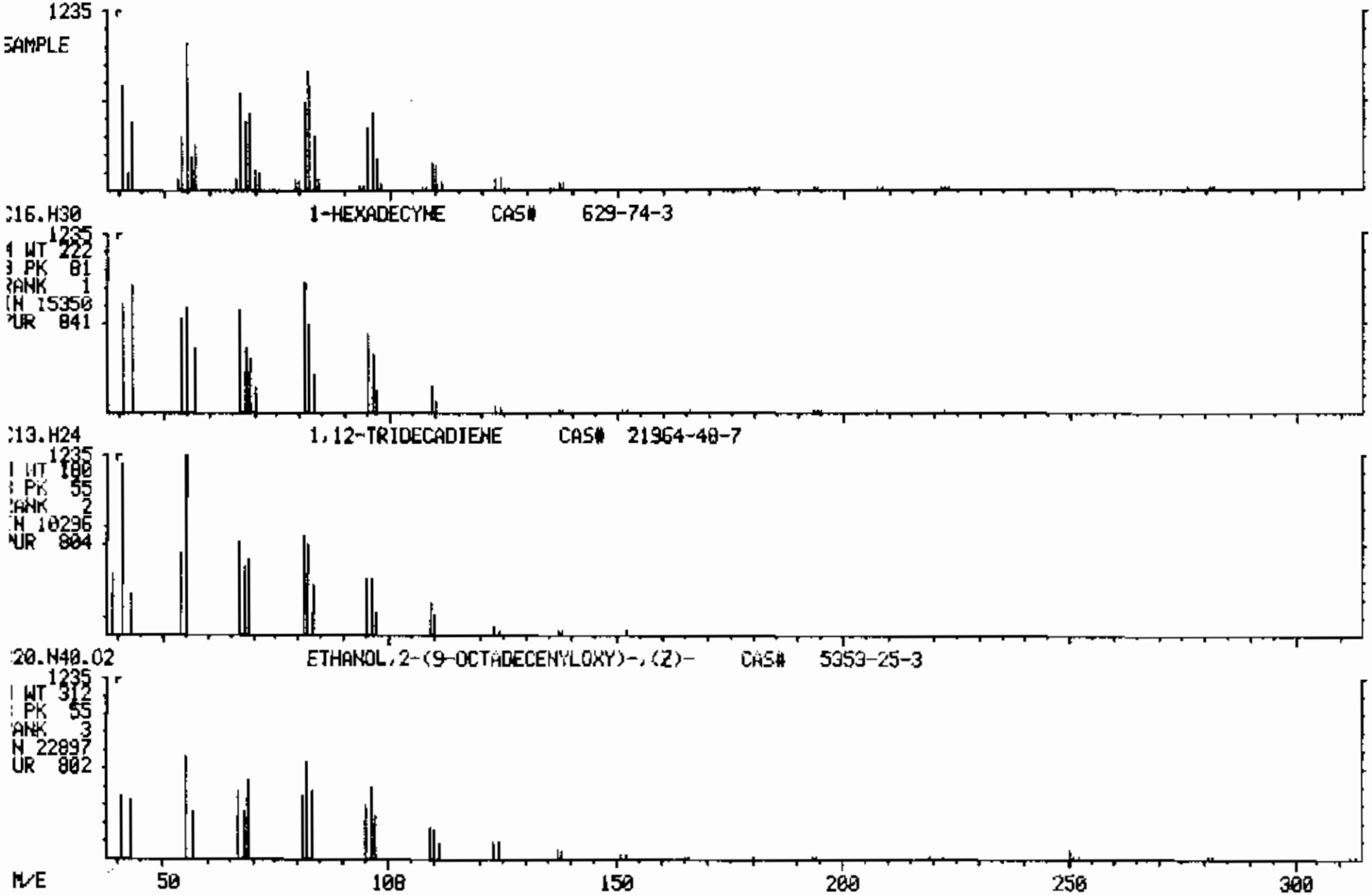


COMPUCHEM LABS

LIBRARY SEARCH
85/18/85 17:10:00 + 15:36
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 #1034
ENHANCED (100 2M 0T)

BASE M/E: 55
RIC: 7790590.



GEN. TEST

CASE#: ~~CONTAM~~ DUE DATE: 5/24

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 49919

J1] R1] D1] (:1)

J2:] R2:] D2:] (:1)

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code--- -717
Instrument Code---255
Compound List---144
Surrogate Std---393
Internal Std---035 (added by GC/MS)

SAS: EPA#: BLANK1 Dry Weight Factor H2O

GC/MS ANALYSIS 200 ul conc

Volumes mixed: BN_____ul Acid_____ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/7/85
DFTPP Filename QH60S18A1C Disk (30)
Standard Filename H1600S18A1C Disk ( )
Sample Filename G1H4391SAK Disk ( )

ANALYST(S): Injection 875 Work-up 875

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes DK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CB,PC,DT,DA
ED,IF,LA,DI,CO,RN,DW,NS

Disposition: [X] Complete

Extraneous Peak Search Results:
# of Peaks Found: 15

[ ] Reinjection required

[ ] Reextraction required

Quality Assurance Notice(s):
Notices Required 1

[ ] Dilute (:1)

COMMENTS:

[ ] Reinject Neat

[ ] Send to QA

GC/MS Review SL Date 5/10/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s):_____/_____

QA COMMENTS:

ENTERED 5/21/85

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date 5/21/85

ERASOLID (1

SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	493	1850000.	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	340.
610	94		PHENOL (Q1#3) <108-95-2>				BDL	340.
473	93		ANILINE (Q1#4) <62-53-3>				BDL	340.
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	340.
601	128		2-CHLOROPHENOL (Q1#6) <95-5				BDL	340.
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	340.
422	146		1,4-DICHLOROBENZENE (Q1#8)				BDL	340.
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	340.
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	340
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	340.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	340.
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	340.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	340
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	340.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	340.
460	136	I	D8-NAPHTHALENE (IS#2)	612	7050000.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	340.
606	139		2-NITROPHENOL (Q2#3) <88-75				BDL	340.
603	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	340.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	1700.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	340.
602	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	340.
446	180		1,2,4-TRICHLOROBENZENE (Q2#				BDL	340.
99	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	340.
75	127		4-CHLOROANILINE (Q2#10) <10				BDL	340.
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	340.
608	107		P-CHLORO-M-CRESOL (Q2#12) <				BDL	340.
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	340.
495	164	I	D10-ACENAPHTHENE (IS#3)	785	3720000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	340.
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	340.
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	3400.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	340.
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	1700.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	340.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	340.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	1700.
401	153		ACENAPHTHENE (Q3#10) <83-32				BDL	340.
605	184		2,4-DINITROPHENOL (Q3#11) <				BDL	1700.
607	139		4-NITROPHENOL (Q3#12) <100-				BDL	1700.
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	340.
427	89		2,4-DINITROTOLUENE (Q3#14)				BDL	340.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	340.
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	340.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	340.
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	340.
480	138		4-NITROANILINE (Q3#19) <100				BDL	1700.
467	188	I	D10-PHENANTHRENE (IS#4)	930	6170000.	40.0		
404	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1700.
3	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	340.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	340.
433	284		HEXACHLOROBENZENE (Q4#5) <1				BDL	340.
609	266		PENTACHLOROPHENOL (Q4#6) <8				BDL	1700.

SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
444	178		PHENANTHRENE (Q4#7) <S5-01-				BDL	340.
403	178		ANTHRACENE (Q4#8) <120-12-7				BDL	340.
426	149		D1-N-BUTYL PHTHALATE (Q4#9)				BDL	340.
431	202		FLUORANTHENE (Q4#10) <206-4				BDL	340.
459	240	I	D12-CHRYSENE (IS#5)	1193	3490000.	40.0		
404	184		BENZIDINE (Q5#2) <92-87-5>			~~46.1~~	~~BDL~~	1700.
445	202		PYRENE (Q5#3) <129-00-0>				BDL	340.
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	340.
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	680.
405	228		BENZO(A)ANTHRACENE (Q5#6) <				BDL	340.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	340.
418	228		CHRYSENE (Q5#8) <218-01-9>				BDL	340.
497	264	I	D12-PERYLENE (IS#6)	1353	2320000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	340.
407	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	340.
409	252		BENZO(K)FLUORANTHENE (Q6#4)				BDL	340.
406	252		BENZO(A)PYRENE (Q6#5) <50-3				BDL	340.
437	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL	340
419	278		DIBENZO(A,H)ANTHRACENE (Q6#				BDL	340.
408	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	340.
619	112	S	2-FLUOROPHENOL (SS#1)			104.0	105.0%	
612	99	S	D5-PHENOL (SS#2)			104.0	106.0%	
447	82	S	D5-NITROBENZENE (SS#3)			44.2	90.0%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			44.2	90.0%	
8	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			87.2	89.0%	
6	244	S	D14-TERPHENYL (SS#7)			52.7	107.0%	
471	212	S	D10-PYRENE (SS#6)			52.4	106.0%	
CHECKSUMS:								
6593.	2206			5366	24600000.	774.8	693.0	

SEMI-VOLATILE - LOW LEVEL SOLID

J	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
75	619	2-FLUOROPHENOL (SS#1)	104.0	98.4	105.0	20-140	X	
76	612	D5-PHENOL (SS#2)	104.0	98.4	106.0	20-140	X	
77	447	D5-NITROBENZENE (SS#3)	44.2	49.2	90.0	20-140	X	
78	448	2-FLUOROBIPHENYL (SS#4)	44.2	49.2	90.0	20-140	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	87.2	98.4	89.0	10-140	X	
80	496	D14-TERPHENYL (SS#7)	52.7	49.2	107.0	20-150	X	
81	471	D10-PYRENE (SS#6)	52.4	49.2	106.0	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{0.6\text{ML}}{0.590} \times \frac{30.0\text{G}}{30.0\text{G}} \times \frac{1.0}{1.0} \times 33.3 = 33.900$$

* SPLIT FACTOR = (295/300)(6/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\text{ UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.6\text{ML}}{0.590\text{ML}} \times 1.0 = 2.030$$

52 (1)

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Sharyn + Audrey

DATE ASSIGNED 5-7-85

PAGE ____ OF ____

General Testing

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	FINAL EXTRACT VOL. (MLS) SV B/N	FINAL EXTRACT VOL. (MLS) ACID	FINAL EXTRACT VOL. (MLS) PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49859	-717	Comm.				30.05g	1.0	0.5		4.0			5/15	
49860						30.05g	1.0	0.5		4.0			5/15	
49919				BI		30.0C	1.0	0.5		4.0			5/15	
49920	↓	↓		B2		30.0C	1.0	0.5		4.0			5/15	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			345		
	AMT.	0.5ml			0.5ml		
	LOT	1458K			1448		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/326

FINAL VOLUME VERIFIED

SUPERVISOR REVIEWED M.D.

EXTRACTS RECEIVED BY 5/7/85

Issued Store 5/7

№ 6076

23

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705 MS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: GK049824A12
Sample matrix: salid
Data Release
Authorized By: _____

Case: GEN TEST
QC Report No: 279/30%
Contract No:
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 5-6-85
Date analyzed: 5-8-85
Conc/Dil Factor: 1.79
Percent moisture: 44%
Percent moisture (decanted):
pH:

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	18.	U	78-87-5	1,2-Dichloropropane	8.9	U
74-83-9	Bromomethane	18.	U	10061-02-6	trans-1,3-Dichloropropene	8.9	U
75-01-4	Vinyl Chloride	18.	U	79-01-6	Trichloroethene	8.9	U
75-00-3	Chloroethane	18.	U	124-48-1	Dibromochloromethane	8.9	U
75-09-2	Methylene Chloride	20.	B	79-00-5	1,1,2-Trichloroethane	8.9	U
67-64-1	Acetone	27.	B	71-43-2	Benzene	8.9	U
75-15-0	Carbon Disulfide	8.9	U	10061-01-5	cis-1,3-Dichloropropene	8.9	U
75-35-4	1,1-Dichloroethene	8.9	U	110-75-8	2-Chloroethyl Vinyl Ether	18.	U
75-34-3	1,1-Dichloroethane	8.9	U	75-25-2	Bromoform	8.9	U
156-60-5	trans-1,2-Dichloroethene	8.9	U	591-78-6	2-Hexanone	18.	U
67-66-3	Chloroform	8.9	U	108-10-1	4-Methyl-2-pentanone	18.	U
107-06-2	1,2-Dichloroethane	8.9	U	127-18-4	Tetrachloroethene	8.9	U
78-93-3	2-Butanone	18.	U	108-88-3	Toluene	8.9	U
71-55-6	1,1,1-Trichloroethane	8.9	U	108-90-7	Chlorobenzene	8.9	U
56-23-5	Carbon Tetrachloride	8.9	U	100-41-4	Ethyl Benzene	8.9	U
108-05-4	Vinyl Acetate	18.	U	100-42-5	Styrene	8.9	U
75-27-4	Bromodichloromethane	8.9	U		Total Xylenes	8.9	U
79-34-5	1,1,2,2-Tetrachloroethane	8.9	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

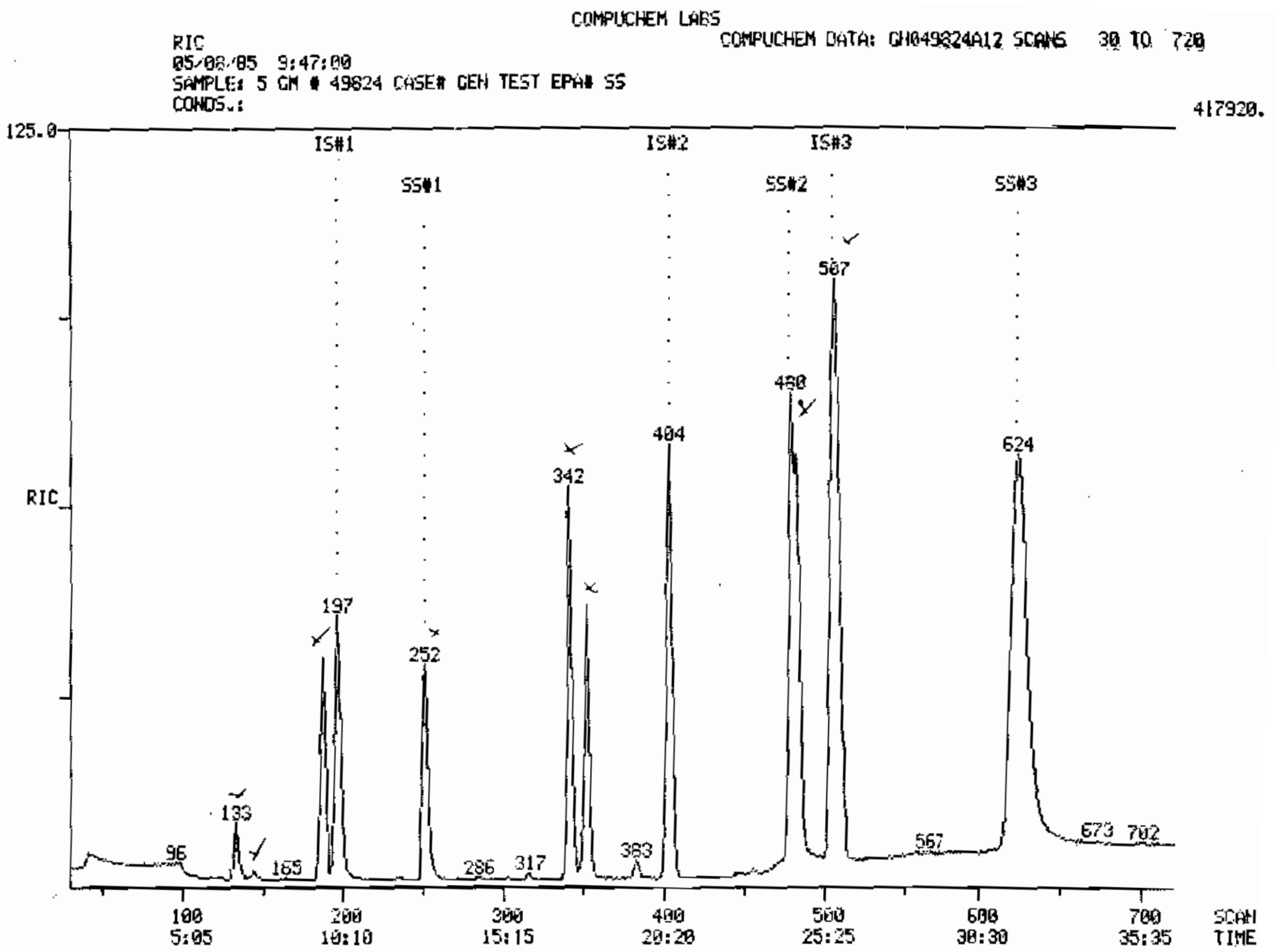
P.O. Box 818 Alexandria Virginia 22313 703/557-2490

Sample Number
50705H MS

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		None			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH049824A12 SCANS 30 TO 720
05/08/85 9:47:00
SAMPLE: 5 GM # 49824 CASE# GEN TEST EPA# SS
CONDS.:
417920.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
RIC
197
252
342
404
480
567
624
133
96
165
286
317
383
567
673
702
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
TIME

Internal Standard Area Monitor

Method: E238 Filename: CH049824A12 Date: 05/08/85
Shift Std: GS050508C12 Time: 9:47

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	93720.	104733.	-8.	Pass
* 1,4 DIFLUORDBENZENE (INTERNAL STANDARD)	381788.	387406.	-8.	Pass
* D5 CHLOROBENZENE(INTERNAL STANDARD)	354475.	360443.	-1.	Pass

PROCEDURE: RK DIAGNOSTIC REPORT 5/08/85 10:25:15
DATA FILE: CH049824A12
REFERENCE: E238
METHOD: E238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	27	42	13	1	33	E238S/E238U

42 COMPOUNDS PROCESSED, 13 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEL	DELTA	PEAKS	BAT FIT	PEAKS	M/E	CHRD TOP	DELTA	PEAKS
1	E5	1	-197	197	197	.	1	980	.	128	197	.	1
2	E6	1	-403	404	404	.	1	993	.	114	404	.	1
3	E7	1	-505	506	506	.	1	975	.	117	505	-1	1
4	E5	2	-36	37	.	.	.	.	.	50	.	.	.
5	E5	3	-55	56	.	.	.	.	.	94	.	.	.
6	E5	4	-70	71	.	.	.	.	.	62	.	.	.
7	E5	5	-90	91	.	.	.	.	.	64	.	.	.
8	E5	6	-133	134	133	-1	1	970	.	84	133	.	1
9	E5	7	-144	145	.	.	.	.	.	43	144	.	1
10	E5	8	-164	165	.	.	.	.	.	76	165	.	1
11	E5	9	-187	188	188	.	1	982	.	96	188	.	1
12	E5	10	-213	214	.	.	.	.	.	63	.	.	.
13	E5	11	-227	228	.	.	.	.	.	96	.	.	.
14	E5	12	-238	239	.	.	.	.	.	83	239	.	1
15	E5	13	-253	254	.	.	.	.	.	62	254	.	1
16	E6	2	-251	252	252	.	1	944	.	72	252	.	1
17	E6	3	-280	281	.	.	.	.	.	97	.	.	.
18	E6	4	-288	289	.	.	.	.	.	117	.	.	.
19	E6	5	-289	290	.	.	.	.	.	43	.	.	.
20	E6	6	-297	298	.	.	.	.	.	83	.	.	.
21	E6	7	-325	326	.	.	.	.	.	63	.	.	.
22	E6	8	-330	331	.	.	.	.	.	75	.	.	.
23	E6	9	-341	342	342	.	1	985	.	130	342	.	1
24	E6	10	-353	354	.	.	.	.	.	129	.	.	.
25	E6	11	-355	356	.	.	.	.	.	97	.	.	.
26	E6	12	-352	353	353	.	1	992	.	78	352	-1	1
27	E6	13	-356	357	.	.	.	.	.	75	.	.	.
28	E6	14	-377	378	.	.	.	.	.	63	.	.	.
29	E6	15	-407	408	.	.	.	.	.	173	.	.	.
30	E7	2	-418	419	.	.	.	.	.	43	421	.	2
31	E7	3	-450	451	.	.	.	.	.	43	.	.	.
32	E7	4	-455	456	.	.	.	.	.	164	.	.	.
33	E7	5	-454	455	.	.	.	.	.	83	.	.	.
34	E7	6	-483	484	483	-1	1	983	.	92	483	.	1
35	E7	7	-508	509	508	-1	1	992	.	112	508	.	1
36	E7	8	-557	558	.	.	.	.	.	106	.	.	.
37	E7	9	-661	662	.	.	.	.	.	104	.	.	.
38	E7	10	-670	671	.	.	.	.	.	106	.	.	.
39	E7	11	-670	671	.	.	.	.	.	106	.	.	.
40	E8	2	-251	252	252	.	1	991	.	65	252	.	1
41	E8	3	-622	623	623	.	1	991	.	95	623	.	1
42	E8	4	-479	480	479	-1	1	993	.	98	479	.	1

QUANTITATION REPORT FILE: GH049824A12

DATA: GH049824A12.TI
05/08/85 9:47:00
AMPLE: 5 GM # 49824 CASE# GEN TEST EPA# SS
ONDS. :
SUBMITTED BY: 12 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLDROETHANE
14	* 1,4 DIFLUORDBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENIENE
37	251 BTYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# OB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	197	10:01	1	1.000	A BV	95721.	50.000 UG/KG	8.99
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	133	6:46	1	0.675	A BB	28354.	11.487 UG/KG	2.06
7	43	144	7:19	1	0.731	A BB	13922.	15.003 UG/KG	2.70
8	76	165	8:23	1	0.838	A BB	1585.	0.252 UG/KG	0.05
9	96	188	9:33	1	0.954	A BV	89498.	42.351 UG/KG	7.61
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	239	12:09	1	1.213	A BB	1264.	0.253 UG/KG	0.05
13	62	254	12:55	1	1.289	A BB	932.	0.275 UG/KG	0.05
14	114	404	20:32	14	1.000	A BV	381789.	50.000 UG/KG	8.99
15	72	252	12:49	14	0.624	A BB	6310.	13.964 UG/KG	2.51
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	342	17:23	14	0.847	A BB	150986.	36.622 UG/KG	6.58
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	352	17:54	14	0.871	A BB	241813.	44.472 UG/KG	7.99
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BV	354475.	50.000 UG/KG	8.99
30	43	421	21:24	29	0.834	A*BB	1033.	0.256 UG/KG	0.05
31	43	NOT FOUND							
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	483	24:33	29	0.956	A BB	179245.	43.089 UG/KG	7.75
35	112	508	25:49	29	1.006	A BV	270438.	40.971 UG/KG	7.36
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	252	12:49	1	1.279	A BB	172521.	53.543 UG/KG	9.62
41	95	623	31:40	29	1.234	A BB	277424.	48.652 UG/KG	8.75
42	98	479	24:21	1	2.431	A BB	339800.	53.142 UG/KG	9.55

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50		10.000			50.00		1.072	
3	2:48		10.000			50.00		1.438	
4	3:33		10.000			50.00		1.232	
5	4:34		10.000			50.00		0.618	
6	6:46	1.00	5.000	0.14	11.49	50.00	0.296	1.289	0.23
7	7:19	1.00	10.000	0.07	15.00	50.00	0.145	0.485	0.30
8	8:20	1.01	5.000	0.17	0.25	50.00	0.017	3.281	0.01
9	9:30	1.01	5.000	0.19	42.35	50.00	0.935	1.104	0.85
10	10:50		5.000			50.00		1.976	
11	11:32		5.000			50.00		1.157	
12	12:06	1.00	5.000	0.24	0.25	50.00	0.013	2.611	0.01
13	12:52	1.00	5.000	0.26	0.27	50.00	0.010	1.771	0.01
14	20:29	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	13.96	50.00	0.017	0.059	0.28
16	14:14		5.000			50.00		0.595	
17	14:38		5.000			50.00		0.642	
18	14:41		10.000			50.00		0.491	
19	15:06		5.000			50.00		0.643	
20	16:31		5.000			50.00		0.347	
21	16:46		5.000			50.00		0.240	
22	17:20	1.00	5.000	0.17	38.62	50.00	0.395	0.512	0.77
23	17:57		5.000			50.00		0.595	
24	18:03		5.000			50.00		0.330	
25	17:54	1.00	5.000	0.17	44.47	50.00	0.633	0.712	0.89
26	18:06		5.000			50.00		0.684	
27	19:10		10.000			50.00		0.232	
28	20:41		5.000			50.00		0.696	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.01	10.000	0.08	0.26	50.00	0.003	0.569	0.01
31	22:52		10.000			50.00		0.452	
32	23:08		5.000			50.00		0.619	
33	23:05		5.000			50.00		0.666	
34	24:33	1.00	5.000	0.19	43.09	50.00	0.506	0.587	0.86
35	25:49	1.00	5.000	0.20	40.97	50.00	0.763	0.931	0.82
36	28:19		5.000			50.00		0.501	
37	33:36		5.000			50.00		1.257	
38	34:03		5.000			50.00		0.717	
39	34:03		5.000			100.00		0.359	
40	12:46	1.00	10.000	0.13	53.54	50.00	1.802	1.683	1.07
41	31:37	1.00	10.000	0.12	48.65	50.00	0.783	0.804	0.97
42	24:21	1.00	10.000	0.24	53.14	50.00	3.550	3.340	1.06

VOA
GC/MS WORKSHEET   COMPUCHEM#. 49824

R1[ ] R2[ ] D1[ ] (:1)
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID
Cell Analyte Code 059

Sample Prep Code--155
Instrument Code--257
Compound List---146
Surrogate Std---?4
Internal Std---5 ?

TRS: EPCA 5.5 2.79/3.8 g Dry Weight Factor 1.80

GC/MS ANALYSIS
Amount Purged: [✓] g/s/Kg soil or [ ] Dilution ___ ul/1000ul/Kg soil
Internal Standard Volume Added ___5___ ul
Surrogate Standard Volume Added ___5___ ul   10ul spike added
D/S Filename BF? 50502?12 ______ Disk (127)
Blank Filename GC?505?9?12 ______ Disk (127)
Standard Filename GS?5050?12 ______ Disk (|)
Sample Filename GHO 49824 A12 ___ Disk (|)

ANALYST(S): Injection ___ fm ___   Work-up ___ fm ___

GC/MS REVIEW

CONDITION CODE [OK]   Entry Codes OK,BA,ES,SM,US,SN,SR,UA,DA

Non-Entry Codes IM,IN,IR,SM,CT,CS,PC,NR
IR,?,DI,CO,RN,DW,ST,SF
UP,SS,QT,VC,HC,NS

Disposition: [✓] Complete

Tentatively Identified Compound Results:
# of Peaks Found: ___0___

[ ] Reprep heat required

[ ] Reprep using ______ g

Quantitation Summary Report(s):
Multiple Regions ___

[ ] Dilute (:1)

COMMENTS:

GC/MS Reviewer SAH Date 5 / 10 /85   Auditor ______ Date __/__/__

REPORT INFORMATION   Total # of Injections: __1__
Final Reportable Filename(s): GH049824A12

QA COMMENTS:

Initials ______ Date __/__/__

FINAL REVIEW: Initials ______ Date __/__/__

ENTERED 5/12/85

Volatile - Low Level Solid

No	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detection Limit (ug/kg)
2	221	___	CHLOROMETHANE			BDL	18.0
3	220	___	BROMOMETHANE			BDL	18.0
4	231	___	VINYL CHLORIDE			BDL	18.0
5	209	___	CHLOROETHANE			BDL	18.0
6	222	___	METHYLENE CHLORIDE	11.5		20.0 B	8.9
7	252	___	ACETONE (2-PROPANONE)	15.0		27.0	18.0
8	254	___	CARBON DISULFIDE			BDL	8.9
9	216	___	1,1-DICHLOROETHYLENE	42.4		76.0	8.9
10	214	___	1,1-DICHLORDETHANE			BDL	8.9
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	8.9
12	211	___	CHLOROFORM			BDL	8.9
13	215	___	1,2-DICHLOROETHANE			BDL	8.9
15	253	___	2-BUTANONE	~~14.0~~		~~25.0~~ BDL	18.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	8.9
17	206	___	CARBON TETRACHLORIDE			BDL	8.9
18	257	___	VINYL ACETATE			BDL	18.0
19	212	___	BROMODICHLOROMETHANE			BDL	8.9
20	217	___	1,2-DICHLOROPROPANE			BDL	8.9
21	250	___	TRANS-1,3-OICHLOROPROPENE			BDL	8.9
22	229	___	TRICHLORDETHYLENE	38.6		69.0	8.9
23	208	___	CHLOROOIBROMOMETHANE			BDL	8.9
24	228	___	1,1,2-TRICHLOROETHANE			BDL	8.9
25	203	___	BENZENE	44.5		80.0	8.9
5	218	___	CIB-1,3-DICHLOROPROPENE			BDL	8.9
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL	18.0
28	205	___	BROMOFORM			BDL	8.9
30	255	___	2-HEXANONE			BDL	18.0
31	256	___	4-METHYL-2-PENTANONE			BDL	18.0
32	224	___	TETRACHLOROETHENE			BDL	8.9
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	8.9
34	225	___	TOLUENE	43.1		77.0	8.9
35	207	___	CHLOROBENZENE	41.0		73.0	8.9
36	219	___	ETHYLBENZENE			BDL	8.9
37	251	___	STYRENE			BDL	8.9
38	239	___	M-XYLENE			BDL	8.9
39	240/___		241 O- & P-XYLENE			BDL	8.9

Volatile - Low Level Solid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	53.5	50.0	107.0	50-160	X	
41		BROMOFLUOROBENZENE	48.6	50.0	97.0	50-160	X	
42		DB-TOLUENE	53.1	50.0	106.0	50-160	X	

\# Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked x 100 %

P F

Internal Standard (#1) Bromochloroethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5.0\ g}{\text{Wet Weight of Sample (g)}} \times \text{GC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ g}{5.0\ (g)} \times \frac{1.0}{} \times \frac{1.8}{} = 1.790$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

(13)

VOLATILE PREP WORKSHEET

№ 1192

ASSIGNED TO (19) Ron

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Samp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
~~49796~~	~~15~~	gen Lot			~~5.00g~~	~~5-6-85~~					
49818					5.00g			/			
49823			BS		Blank						
49824			SS	49826	5.03g			/			
49825			SS	49826	5.05g			/			
49827					5.00g			/			
49828					5.01g			/			
49829					5.01g			/			
49830					5.09g			/			
49831					5.04g			/			
49859					5.10g			/			
49860					5.00g	↓		/			
49911			B		10ml	5-6-85	/				
49912			B		Blank	↓					
			B								

Surrogate No. _____
Amount _____
Lot _____

Extracts Received 5/6/85 BD

Schedule Reference 299/308 /
Manual Counter 278/344 /

Issued 5/7 AM

nvironmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705E MS

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 05-21-85
Date analyzed: 05-22-85
Conc/Dil Factor: 33.20

CAS Number		ug/kg		CAS Number		ug/kg	
62-75-9	N-Nitrosodimethylamine	330	U	99-09-2	3-Nitroaniline	1700	U
108-95-2	Phenol	330	U	83-32-9	Acenaphthene	330	U
62-53-3	Aniline	330	U	51-28-5	2,4-Dinitrophenol	1700	U
111-44-4	bis(2-Chloroethyl) ether	330	U	100-02-7	4-Nitrophenol	1700	U
95-57-8	2-Chlorophenol	330	U	132-64-9	Dibenzofuran	330	U
541-73-1	1,3-Dichlorobenzene	330	U	121-14-2	2,4-Dinitrotoluene	330	U
106-46-7	1,4-Dichlorobenzene	330	U	606-20-2	2,6-Dinitrotoluene	330	U
100-51-6	Benzyl Alcohol	330	U	84-66-2	Diethylphthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U	7005-72-3	4-Chlorophenyl Phenyl ether	330	U
95-48-7	2-Methylphenol	330	U	86-73-7	Fluorene	330	U
39638-32-9	bis(2-Chloroisopropyl) ether	330	U	100-01-6	4-Nitroaniline	1700	U
106-44-5	4-Methylphenol	330	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
621-64-7	N-Nitroso-Dipropylamine	330	U	86-30-6	N-nitrosodiphenylamine (1)	330	U
67-72-1	Hexachloroethane	330	U	101-55-3	4-Bromophenyl Phenyl ether	330	U
98-95-3	Nitrobenzene	330	U	118-74-1	Hexachlorobenzene	330	U
78-59-1	Isophorone	330	U	87-86-5	Pentachlorophenol	1700	U
88-75-5	2-Nitrophenol	330	U	85-01-8	Phenanthrene	330	U
105-67-9	2,4-Dimethylphenol	330	U	120-12-7	Anthracene	330	U
65-85-0	Benzoic Acid	1700	U	84-74-2	Di-n-butylphthalate	330	U
111-91-1	bis(2-Chloroethoxyl methane	330	U	206-44-0	Fluoranthene	330	U
120-83-2	2,4-Dichlorophenol	330	U	92-87-5	Benzidine	1700	U
120-82-1	1,2,4-Trichlorobenzene	330	U	129-00-0	Pyrene	330	U
91-20-3	Naphthalene	330	U	85-68-7	Butyl Benzyl Phthalate	330	U
106-47-8	4-Chloroaniline	330	U	91-94-1	3,3'-Dichlorobenzidine	660	U
87-68-3	Hexachlorobutadiene	330	U	56-55-3	Benzo(a)anthracene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U	117-81-7	bis(2-ethylhexyl)phthalate	330	U
91-57-6	2-Methylnaphthalene	330	U	218-01-9	Chrysene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U	117-84-0	Di-n-octyl Phthalate	330	U
88-06-2	2,4,6-Trichlorophenol	330	U	205-99-2	Benzo(b)fluoranthene	210	J (2)
95-95-4	2,4,5-Trichlorophenol	1700	U	207-08-9	Benzo(k)fluoranthene	210	J (2)
91-58-7	2-Chloronapthalene	330	U	50-32-8	Benzo(a)pyrene	330	U
88-74-4	2-Nitroaniline	1700	U	193-39-5	Indeno(1,2,3-cd)pyrene	330	U
131-11-3	Dimethyl Phthalate	330	U	53-70-3	Dibenz(a,h)anthracene	330	U
208-96-8	Acenaphthylene	330	U	191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from diphenylamine
(2) Indistinguishable isomers

SAMPLE NUMBER

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-10-1	2-PENTANONE,4-METHYL- ALKANE	SEMI1	233	360.	J
2	108-88-3	BENZENE,METHYL- TOLUENE	SEMI1	263	2000.	J
3	589-43-5	HEXANE,2,4-DIMETHYL- ALKANE	SEMI1	272	540.	J
4	15870-10-7	1-HEPTENE,2-METHYL- ALKENE OR CYCLOALKANE	SEMI1	287	340.	J
5	111-65-9	OCTANE ALKANE	SEMI1	301	1800.	J
6	1678-91-7	CYCLOHEXANE,ETHYL- CYCLOALKANE	SEMI1	333	1400.	J
7	123-42-2	2-PENTANONE,4-HYDROXY-4-METHYL- ✓	SEMI1	344	5400.	J
8	1839-63-0	CYCLONEXANE,1,3,5-TRIMETHYL- ISOMER	SEMI1	351	260.	J
9	3074-71-3	HEPTANE,2,3-DIMETHYL- ISOMER	SEMI1	355	380.	J
10	2213-23-2	HEPTANE,2,4-DIMETHYL- ISOMER	SEMI1	362	1400.	J
11	2216-33-3	OCTANE,3-METHYL- ALKANE	SEMI1	369	1800.	J
12	111-84-2	NONANE ISOMER	SEMI1	392	370.	J
13	629-78-7	HEPTADECANE ALKANE	SEMI1	789	590.	J
14	629-74-3	1-HEXADECYNE ALIPHATIC, UNSATURATED	SEMI1	974	1300.	J

IR 5-24-85

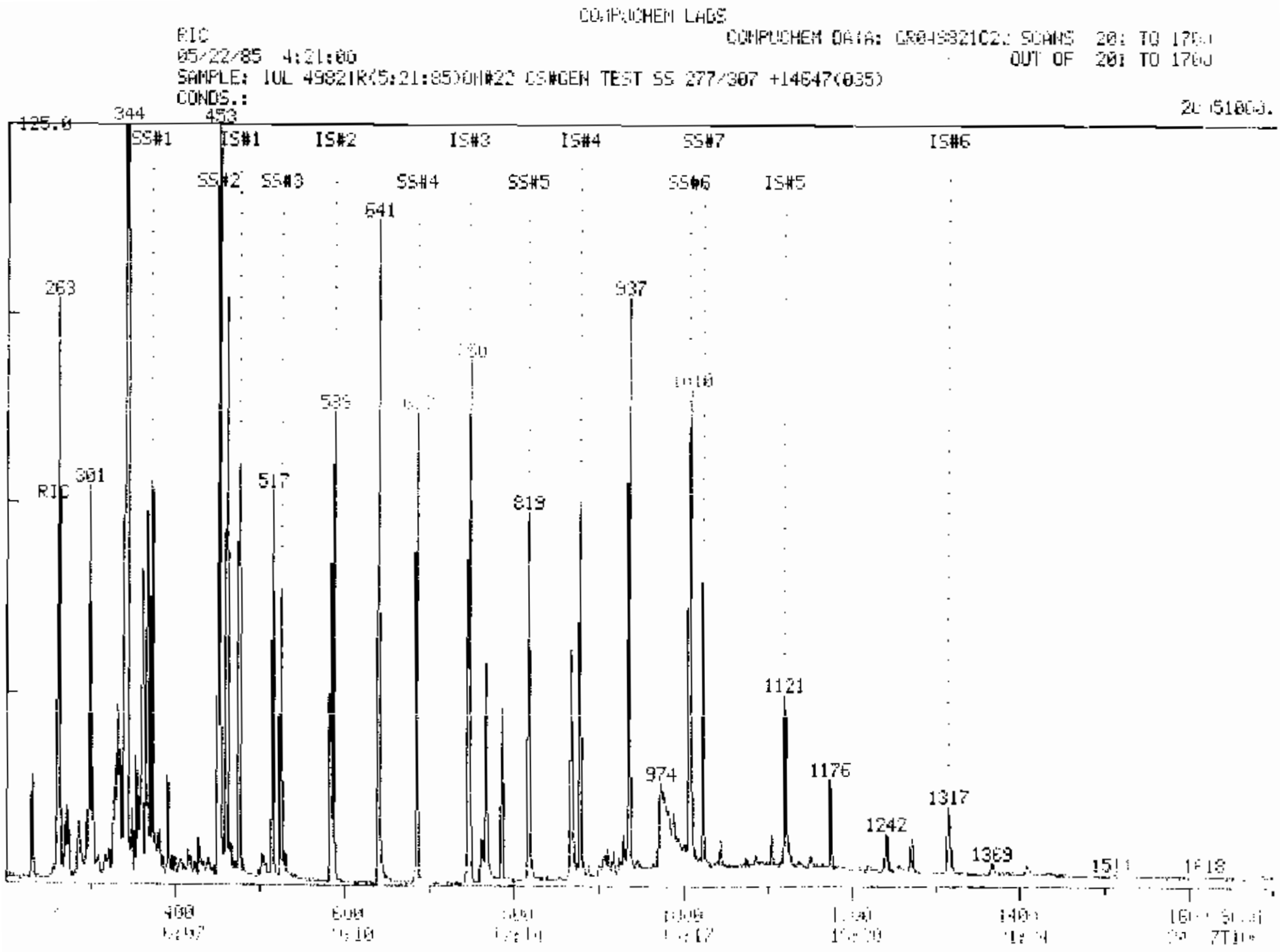
SAMPLE NUMBER

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
15	629-94-7	HENEICOSANE ALKANE	SEMI1	1045	210.	J
16	629-78-7	HEPTADECANE ALKANE	SEMI1	1106	190.	J
17	629-94-7	HENEICOSANE ALKANE	SEMI1	1176	720.	J
18	638-66-4	OCTADECANAL OXYGENATED	SEMI1	1242	660.	J
19	629-94-7	HENEICOSANE ALKANE	SEMI1	1273	640.	J

MR
5-24-85


COMPUCHEM LABS
RIC
05/22/85 4:21:00
SAMPLE: 10L 49821R(5:21:85)ON#22 CS#GEN TEST SS 277/307 +14647(035)
CONDS.:
COMPUCHEM DATA: GR049821C2.: SCANS 20: TO 1750
OUT OF 20: TO 1760
125.0
344
453
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
641
263
937
301
517
819
1121
974
1176
1317
1242
1369

Internal Standard Area Monitor

Method: SEMI1 Filename: GR049821022 Date: 05/22/8?
Shift Std: HG850521822 Time: 4 21

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*** D4-1,4-DICHLOROBENZENE (IS#1)	2149950.	1617980.	33.	Pas=
*** D8-NAPHTHALENE (IS#2)	6976860.	5625050.	24.	Pas=
*** D10-ACENAPHTHENE (IS#3)	4050070.	2987070.	36.	Pas=
*** D10-PHENANTHRENE (IS#4)	6168060.	5065310.	22.	Pas=
*** D12-CHRYSENE (IS#5)	3102520.	3587800.	-13	Pas=
*** D12-PERYLENE (IS#6)	2312630.	3700150.	-36.	Pas=

PROCEDURE: RK DIAGNOSTIC REPORT 5/22/85 4:42:5
DATA FILE: GR049821C22
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS				PLUS UNKNOWNS				LIST NAMES	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
4	4	1	34	53	14	1	134	SEMI1S1/SEMI1U1	
3	3	5	37	28	14	2	112	SEMI1S2/SEMI1U2	

81 COMPOUNDS PROCESSED. 28 FOUND

COMPOUND		SEARCH					SAT	CHRO		
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	G1	1	-477	477	477	.	1	996	.	152	477	.	1
2	G3	1	-746	747	747	.	1	998	.	164	747	.	1
3	G2	1	-588	589	589	.	1	989	.	136	589	.	1
4	G7	2	-373	373	373	.	1	910	.	112	373	.	1
5	G1	2	-231	231	.	.	.	.	.	42	233	.	2
6	G1	3	-454	455	.	.	.	.	.	94	454	.	1
7	G1	4	-453	454	.	.	.	.	.	93	454	.	1
8	G1	5	-459	460	.	.	.	.	.	93	463	.	2
9	G1	6	-462	463	.	.	.	.	.	128	463	.	1
10	G1	7	-473	474	478	4	1	972	.	146	478	.	1
11	G1	8	-478	479	478	-1	1	928	.	146	478	.	1
12	G1	9	-492	493	.	.	.	.	.	108	.		
13	G1	10	-494	495	.	.	.	.	.	146	496	.	2
14	G1	11	-564	565	.	.	.	.	.	102	.		
15	G1	12	-506	507	.	.	.	.	.	45	505	.	2
16	G1	13	-516	517	.	.	.	.	.	108	519	.	2
17	G1	14	-517	518	.	.	.	.	.	70	517	.	1
18	G1	15	-520	521	.	.	.	.	.	117	.	.	
19	G1	16	-529	530	.	.	.	.	.	77	527	.	2
20	G2	2	-549	550	.	.	.	.	.	82	550	.	2
21	G2	3	-556	557	.	.	.	.	.	139	.	.	
22	G2	4	-561	562	.	.	.	.	.	122	.	.	
23	G2	5	-574	575	.	.	.	.	.	122	.	.	
24	G2	6	-570	571	.	.	.	.	.	93	.	.	
25	G2	7	-577	578	.	.	.	.	.	162	.	.	
26	G2	8	-584	585	585	.	1	959	.	180	585	.	
27	G2	9	-589	590	.	.	.	.	.	128	590	.	1
28	G2	10	-597	598	.	.	.	.	.	127	.	.	.
29	G2	11	-606	607	.	.	.	.	.	225	.	.	
30	G2	12	-640	641	641	.	1	920	.	107	641	.	1
31	G2	13	-651	652	.	.	.	.	.	142	651	.	2
32	G3	2	-671	672	.	.	.	.	.	237	.	.	
33	G3	3	-679	680	.	.	.	.	.	196	.	.	
34	G3	4	-679	680	.	.	.	.	.	196	.	.	
35	G3	5	-694	695	.	.	.	.	.	162	.	.	.
36	G3	6	-707	708	.	.	.	.	.	65			
37	G3	7	-726	727	.	.	.	.	.	163	728	.	2
38	G3	8	-732	733	.	.	.	.	.	152	734	.	1
39	G3	9	-707	708	.	.	.	.	.	138	.	.	.
40	G3	10	-749	750	750	.	1	952	.	153	750	.	1
41	G3	11	-753	754	.	.	.	.	.	184	.	.	
42	G3	12	-763	764	.	.	.	.	.	169	763	.	-1
43	G3	13	-763	764	.	.	.	.	.	168	.	.	.
44	G3	14	-766	767	768	1	1	935	.	89	768	.	1
45	G3	15	-732	733	.	.	.	.	.	165	.	.	.
46	G3	16	-789	791	.	.	.	.	.	149	791	.	1
47	G3	17	-794	796						204			

49	03	17	-800	802	.	.		.	138	.	.
50	07	3	-453	454	453	-1	1	995	.	99	453	.
51	07	4	-527	528	527	-1	1	959	.	82	527	.
52	07	5	-686	687	687	.	1	972	.	172	687	.
53	07	6	-817	819	819	.	1	954	.	141	819	.
54	04	1	-877	879	879	.	1	962	.	188	879	.
55	05	1	-1118	1121	1121	.	1	993	.	240	1121	.
56	06	1	-1314	1317	1317	.	5	997	.	264	1317	.
57	04	2	-803	805	.	.		.	.	198	.	.
58	04	3	-805	807	.	.	.	.	.	169	807	.
59	04	4	-837	839	.	.		.	.	248	.	.
60	04	5	-850	852	.	.	.	.	.	284	.	.
61	04	6	-867	869	868	-1	1	936	.	266	868	.
62	04	7	-879	881	881	.	1	969	.	178	881	.
63	04	8	-879	881	881	.	1	947	.	178	881	.
64	04	9	-935	937	937	.	1	955	.	149	937	.
65	04	10	-987	989	990	1	1	959	.	202	990	.
66	05	2	-1006	1008	.	.		.	.	194	1008	.
67	05	3	-1007	1009	1010	1	1	954	.	202	1010	.
68	05	4	-1068	1070	.	.		.	.	149	1072	.
69	05	5	-1115	1117	.	.	.	.	.	252	.	.
70	05	6	-1117	1119	1120	1	2	930	.	228	1120	.
71	05	7	-1124	1126	1127	1	1	916	.	149	1127	.
72	05	8	-1121	1123	1120	-3	1	910	.	228	1120	.
73	06	2	-1195	1197	.	.		.	.	149	1200	.
74	06	3	-1255	1258	.	.			.	252	1256	.
75	06	4	-1255	1258	.	.			.	252	1256	.
76	06	5	-1304	1307	.	.		.	.	252	1308	.
77	06	6	-1558	1561	.	.	.		.	276	1558	.
78	06	7	-1565	1568	.	.		.	.	278	1566	.
79	06	8	.	.	.	.		.	.	276	.	.
80	07	7	-1022	1024	1024	.	1	971	.	244	1024	
81	08	2	-1006	1008	1008	.	1	914	.	212	1008	.

QUANTITATION REPORT FILE: CR049821C22

DATA: CR049821C22.TI
05/22/85 4:21:00
SAMPLE: 1UL 49821R(5:21:85)ON#22 CS#GEN TEST SS 277/307 +14647(035)
CONDS. :
SUBMITTED BY: 22 ANALYST: 755

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*** 04-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39-638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*** D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q2#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	429 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
76	### D5-PHENOL (SS#2)
77	### D5-NITROBENZENE (SS#3)
78	### 2-FLUOROBIPHENYL (SS#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#6)
81	### D10 PYRENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HCHT)	AMOUNT		%TOT
1	152	477	7:17	1	1.000	A BV	2149950.	40.000	NG	2.87
2	42	233	3:34	1	0.488	A*BV	293990.	6.940	NG	0.50#
3	94	454	6:56	1	0.952	A BV	7704990.	74.077	NG	5.32
4	93	454	6:56	1	0.952	A*BV	132864.	1.630	NG	0.12
5	93	462	7:05	1	0.971	A*VB	164004.	1.854	NG	0.13
6	128	463	7:05	1	0.971	A BV	6061340.	80.221	NG	5.76
7	146	478	7:18	1	1.002	A BV	2181310.	26.362	NG	1.89#
8	146	478	7:18	1	1.002	A BV	2181310.	26.647	NG	1.91
9	108	NOT FOUND								
10	146	496	7:35	1	1.040	A*BD	7558.	0.098	NG	0.01
11	108	NOT FOUND								
12	45	505	7:43	1	1.059	A*VV	140947.	1.881	NG	0.14
13	108	519	7:56	1	1.088	A BV	2624.	0.035	NG	0.00
14	70	517	7:54	1	1.084	A VV	2877160	37.877	NG	2.70
15	117	NOT FOUND								
16	77	527	8:03	1	1.105	A*VB	24032.	0.255	NG	0.02
17	136	589	9:00	17	1.000	A BV	4978960	40.000	NG	2.87
18	82	580	8:54	17	0.994	A*V	11146.	0.133	NG	0.01
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT	
20	122	NOT FOUND									
21	122	NOT FOUND									
23	93	NOT FOUND									
23	162	NOT FOUND									
24	180	585	8:56	17	0.993	A BV	2133340.	35.444	NG	2.54	Y
25	128	590	9:01	17	1.002	A BB	6464.	0.034	NG	0.00	
26	127	NOT FOUND									
27	225	NOT FOUND									
28	107	641	9:48	17	1.088	A BV	5633490.	78.294	NG	5.62	Y
29	142	651	9:57	17	1.105	A*VV	74464.	0.619	NG	0.04	
30	164	747	11:25	30	1.000	A BV	4050870.	40.000	NG	2.87	
31	237	NOT FOUND									
32	196	NOT FOUND									
33	196	NOT FOUND									
34	162	NOT FOUND									
35	65	NOT FOUND									
36	163	728	11:08	30	0.975	A*BB	1824.	0.013	NG	0.00	
37	152	734	11:13	30	0.983	A BB	10090.	0.058	NG	0.00	
38	138	NOT FOUND									
39	153	750	11:28	30	1.004	A BV	4429760	37.570	NG	2.70	Y
40	184	NOT FOUND									
41	139	763	11:40	30	1.021	A BV	429600.	4.860	NG	0.35	
42	168	NOT FOUND									
43	89	768	11:44	30	1.028	A BV	1950480	25.397	NG	1.82	Y
44	165	NOT FOUND									
45	149	791	12:05	30	1.059	A BB	26108.	0.165	NG	0.01	
46	204	NOT FOUND									
47	166	796	12:10	30	1.066	A*BB	6416.	0.066	NG	0.00	
48	138	NOT FOUND									
49	188	879	13:26	49	1.000	A BV	1[illegible]0.	40.000	NG	2.87	
50	198	NOT FOUND									
51	169	807	12:20	49	0.918	A*BV	19360	0.333	NG	0.02	
52	248	NOT FOUND									
53	284	NOT FOUND									
54	266	868	13:16	49	0.987	A BV	1[illegible]0	69.486	NG	4.99	Y
55	178	881	13:28	49	1.002	A BV	154[illegible]4.	0.953	NG	0.07	
56	178	881	13:28	49	1.002	A BV	154944.	1.178	NG	0.08	
57	149	937	14:19	49	1.066	A VV	1[illegible]0	52.804	NG	3.79	Y
58	202	990	15:08	49	1.126	A BV	545676	3.450	NG	0.25	
59	240	1121	17:08	59	1.000	A BV	3102520.	40.000	NG	2.87	
60	184	1008	15:24	59	0.899	A BB	70848.	48.399	NG	3.48	N
61	202	1010	15:26	59	0.901	A VV	[illegible]8570.	63.700	NG	4.57	Y
62	149	1072	16:23	59	0.956	A*VV	36696.	0.658	NG	0.05	
63	252	NOT FOUND									
64	228	1120	17:07	59	0.999	A BV	138912.	1.376	NG	0.10	
65	149	1127	17:13	59	1.005	A VV	243312.	3.341	NG	0.24	
66	228	1120	17:07	59	0.999	A BV	138912.	1.499	NG	0.11	
67	264	1317	20:08	67	1.000	A VV	2312630.	40.000	NG	2.87	
68	149	1200	18:20	67	0.911	A*VV	[illegible]210.	0.578	NG	0.04	
69	252	1256	19:12	67	0.954	A*BB	190496.	6.364	NG	0.46	Y
70	252	1256	19:12	67	0.954	A*BB	190496	6.364	NG	0.46	Y
71	252	1308	19:59	67	0.993	A BV	105728.	1.695	NG	0.12	
72	276	1558	23:49	67	1.183	A BV	82354.	0.707	NG	0.05	
73	278	1566	23:56	67	1.189	A*BV	35872.	0.625	NG	0.04	
74	276	NOT FOUND									
75	112	373	5:42	1	0.782	A VV	4938810.	79.465	NG	5.71	

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	453	6:55	1	0.950	A BV	7929470.	80.200	NG	5.76
77	82	527	8:03	17	0.895	A BV	3498270.	40.325	NG	2.90
78	172	687	10:30	30	0.920	A BV	5341750	41.144	NG	2.95
79	141	819	12:31	30	1.096	A BV	9453248.	82.162	NG	5.90
80	244	1024	15:39	59	0.913	A VV	4732600.	60.962	NG	4.38
81	212	1008	15:24	59	0.899	A VV	6874070.	64.435	NG	4.63

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:32	1.01	10.000	0.05	6.94	50.00	0.109	0.788	0.14
3	6:56	1.00	10.000	0.10	74.08	50.00	2.867	1.935	1.48
4	6:55	1.00	10.000	0.10	1.63	50.00	0.049	1.516	0.03
5	7:01	1.01	10.000	0.10	1.85	50.00	0.061	1.649	0.04
6	7:04	1.00	10.000	0.10	80.22	50.00	2.255	1.406	1.60
7	7:14	1.01	10.000	0.10	26.36	50.00	0.812	1.539	0.53
8	7:18	1.00	10.000	0.10	26.65	50.00	0.812	1.523	0.53
9	7:31		10.000			50.00		0.916	
10	7:33	1.00	10.000	0.10	0.10	50.00	0.003	1.437	0.00
11	7:42		10.000			50.00		1.265	
12	7:44	1.00	10.000	0.11	1.88	50.00	0.090	2.383	0.04
13	7:53	1.01	10.000	0.11	0.04	50.00	0.001	1.378	0.00
14	7:54	1.00	10.000	0.11	37.88	50.00	1.063	1.404	0.76
15	7:57		10.000			50.00		0.831	
16	8:05	1.00	10.000	0.11	0.25	50.00	0.009	1.814	0.01
17	9:01	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:23	1.00	10.000	0.09	0.18	50.00	0.004	1.013	0.00
19	8:30		10.000			50.00		0.196	
20	8:34		10.000			50.00		0.343	
21	8:46		50.000			50.00		0.243	
22	8:43		10.000			50.00		0.471	
23	8:49		10.000			50.00		0.309	
24	8:55	1.00	10.000	0.10	35.44	50.00	0.245	0.345	0.71
25	9:00	1.00	10.000	0.10	0.03	50.00	0.001	1.083	0.00
26	9:07		10.000			50.00		0.400	
27	9:16		10.000			50.00		0.201	
28	9:47	1.00	10.000	0.11	78.29	50.00	0.646	0.413	1.57
29	9:57	1.00	10.000	0.11	0.62	50.00	0.009	0.690	0.01
30	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:15		10.000			50.00		0.241	
32	10:23		10.000			100.00		0.388	
33	10:23		50.000			100.00		0.388	
34	10:36		10.000			83.00		1.203	
35	10:48		50.000			50.00		0.535	
36	11:06	1.00	10.000	0.10	0.01	50.00	0.000	1.438	0.00
37	11:11	1.00	10.000	0.10	0.06	50.00	0.002	1.718	0.00
38	10:48		50.000			50.00		0.406	
39	11:27	1.00	10.000	0.10	37.57	50.00	0.883	1.175	0.75
40	11:30		50.000			50.00		0.069	
41	11:40	1.00	50.000	0.02	4.86	50.00	0.097	0.995	0.10
42	11:40		10.000			50.00		1.596	
43	11:42	1.00	10.000	0.10	25.49	51.00	0.247	0.486	0.51
44	11:11		10.000			50.00		0.286	
45	12:03	1.00	10.000	0.11	0.16	50.00	0.005	1.569	0.00
46	12:08		10.000			50.00		0.549	
47	12:07	1.00	10.000	0.11	0.07	50.00	0.002	1.261	0.00
48	12:14		50.000			50.00		0.220	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:16		50.000			50.00		0.093	
51	12:18	1.00	10.000	0.09	0.33	50.00	0.003	0.377	0.01
53	12:47		10.000			50.00		0.205	
53	12:59		10.000			50.00		0.288	
54	13:15	1.00	50.000	0.02	69.49	50.00	0.193	0.139	1.39
55	13:26	1.00	10.000	0.10	0.95	50.00	0.020	1.054	0.02
56	13:31	1.00	10.000	0.10	1.18	50.00	0.020	0.853	0.02
57	14:17	1.00	10.000	0.11	52.80	50.00	1.439	1.363	1.06
58	15:05	1.00	10.000	0.11	3.45	50.00	0.071	1.033	0.07
59	17:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:22	1.00	50.000	0.02	48.40	50.00	0.018	0.019	0.97
61	15:23	1.00	10.000	0.09	63.70	50.00	1.861	1.461	1.27
62	16:19	1.00	10.000	0.10	0.66	50.00	0.009	0.719	0.01
63	17:02		20.000			50.00		0.297	
64	17:04	1.00	10.000	0.10	1.38	50.00	0.036	1.301	0.03
65	17:11	1.00	10.000	0.10	3.34	50.00	0.063	0.939	0.07
66	17:08	1.00	10.000	0.10	1.50	50.00	0.036	1.194	0.03
67	20:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:16	1.00	10.000	0.09	0.56	50.00	0.020	1.711	0.01
69	19:11	1.00	10.000	0.10	6.36	100.00	0.033	0.518	0.06
70	19:11	1.00	10.000	0.10	6.36	100.00	0.033	0.518	0.06
71	19:56	1.00	10.000	0.10	1.69	50.00	0.037	1.079	0.03
72	23:49	1.00	10.000	0.12	0.71	50.00	0.018	1.281	0.01
73	23:55	1.00	10.000	0.12	0.62	50.00	0.012	0.993	0.01
74	24:57		10.000			50.00		1.012	
75	5:42	1.00	0.742	1.65	79.47	50.00	1.838	1.156	1.59
76	6:55	1.00	0.948	1.00	80.20	50.00	2.951	1.840	1.60
77	8:03	1.00	0.875	1.02	40.33	50.00	0.401	0.497	0.81
78	10:29	1.00	0.906	1.01	41.14	50.00	1.055	1.282	0.82
79	12:29	1.00	1.118	0.98	82.16	50.00	0.187	0.114	1.64
80	15:37	1.00	0.907	1.01	60.96	50.00	1.220	1.001	1.22
81	15:22	1.00	0.906	0.99	64.43	50.00	1.772	1.375	1.29

CASE#: GENTEST DUE DATE: 5/24

SEMI-VOLATILE
GC/MS WORKSHEET

CONTRACT#: 49821R

J1 ( ) R1 (X) D1 ( ) (:1)

J21 ( ) R21 ( ) D21 ( ) (:1)

LOW LEVEL SOLID
Deliverable Code: 069

Sample Prep Code--- -717
Instrument Code---255
Compound List---144
Surrogate Std---393
Internal Std---035 (added by GC/MS)

BAS: EPA#: SS 277/307 Dry Weight Factor 1.00

GC/MS ANALYSIS — 100 —
Volumes mixed: BN_____ul Acid_____ul
Internal Standard Volume Added_____5____ul
Mixed Sample Volume Injected_____ul
Date of Sample Bottle Analyzed 5/21/85
DFTPP Filename DF85052B22 Disk (217)
Standard Filename 49852B22 Disk (217)
Sample Filename GR49852B22 Disk (221)

ANALYST(S): Injection 755 Work-up 755

GC/MS REVIEW

CONDITION CODE: EA

Entry Codes OK,EA,JA, EB,AL,AH,PL,PH,FL,J
FH,HL,HH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CB,PC,DT,D
ED,IF,LA,DI,CD,RN,DW,NS

Extraneous Peak Search Results:
# of Peaks Found: 19

Quality Assurance Notice(s):
Notices Required_____

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

COMMENTS:
9-4-20 3-22-25 Q4

GC/MS Review JR Date 5/24/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 3
Final Reportable Package(s):_____/_____

QA COMMENTS:

ENTERED

Initials_____ Date___/___/__

FINAL REVIEW: Initials_____ Date___/___/__

NO	CC ID#	LAB CODE	COMPOUND NAME	QUANT REPORT VALUE	X	RESULT(*) (UG/KG)	DETECTI LIMIT (UG/K
3	441	___	N-NITROSODIMETHYLAMINE (Q1#2) <62-	~~6.9~~		~~BDL~~	330.0
4	610	___	PHENOL (Q1#3) <108-95-2>	74.1		2500.0	330.0
5	473	___	ANILINE (Q1#4) <62-53-3>			BDL	330.0
6	411	___	BIS(2-CHLOROETHYL)ETHER (Q1#5) <11			BDL	330.0
7	601	___	2-CHLOROPHENOL (Q1#6) <95-57-8>	50.2		2700.0	330.0
8	421	___	1,3-DICHLOROBENZENE (Q1#7) <541-73	~~26.4~~		~~BDL~~	330.0
9	422	___	1,4-DICHLOROBENZENE (Q1#8) <106-46	26.6		880.0	330.0
10	474	___	BENZYL ALCOHOL (Q1#9) <100-51-6>			BDL	330.0
11	420	___	1,2-DICHLOROBENZENE (Q1#10) <95-50			BDL	330.0
12	620	___	2-METHYLPHENOL (Q1#11) <95-48-7>			BDL	330.0
13	412	___	BIS(2-CHLOROISOPROPYL)ETHER (Q1#12			BDL	330.0
14	622	___	4-METHYLPHENOL (Q1#13) <106-44-5>			BDL	330.0
15	442	___	N-NITROSO-DI-N-PROPYLAMINE (Q1#14	37.9		1200.0	330.0
16	436	___	HEXACHLOROETHANE (Q1#15) <67-72-1>			BDL	330.0
17	440	___	NITROBENZENE (Q1#16) <98-95-3>			BDL	330.0
18	438	___	ISOPHORONE (Q2#2) <78-59-1>			BDL	330.0
19	606	___	2-NITROPHENOL (Q2#3) <88-75-5>			BDL	330.0
20	603	___	2,4-DIMETHYLPHENOL (Q2#4) <105-67-			BDL	330.0
21	625	___	BENZOIC ACID (Q2#5) <65-85-0>			BDL	1600.0
22	410	___	BIS(2-CHLOROETHOXY)METHANE (Q2#6			BDL	330.0
23	602	___	2,4-DICHLOROPHENOL (Q2#7) <120-83-			BDL	330.0
24	446	___	1,2,4-TRICHLOROBENZENE (Q2#8) <120	35.4		1200.0	330.0
25	439	___	NAPHTHALENE (Q2#9) <91-20-3>			BDL	330.0
26	475	___	4-CHLOROANILINE (Q2#10) <106-47-8>			BDL	330.0
27	434	___	HEXACHLOROBUTADIENE (Q2#11) <87-68-			BDL	330.0
28	608	___	P-CHLORO-M-CRESOL (Q2#12) <59-50-7	78.3		2600.0	330.0
29	477	___	2-METHYLNAPHTHALENE (Q2#13) <91-57			BDL	330.0
31	435	___	HEXACHLOROCYCLOPENTADIENE (Q3#1			BDL	330.0
32	611	___	2,4,6-TRICHLOROPHENOL (Q3#3) <88-			BDL	330.0
33	626	___	2,4,5-TRICHLOROPHENOL (Q3#4) <95-			BDL	1600.0
34	416	___	2-CHLORONAPHTHALENE (Q3#5) <91-58-			BDL	330.0
35	475	___	2-NITROANILINE (Q3#6) <88-74-4>			BDL	1600.0
36	425	___	DIMETHYL PHTHALATE (Q3#7) <131-11-			BDL	330.0
37	402	___	ACENAPHTHYLENE (Q3#8) <208-96-8>			BDL	330.0
38	479	___	3-NITROANILINE (Q3#9) <99-09-2>			BDL	1600.0
39	401	___	ACENAPHTHENE (Q3#10) <83-32-9>	37.6		1200.0	330.0
40	605	___	2,4-DINITROPHENOL (Q3#11) <51-28-			BDL	1600.0
41	607	___	4-NITROPHENOL (Q3#12) <100-02-7>			BDL	1600.0
42	476	___	DIBENZOFURAN (Q3#13) <132-64-9>			BDL	330.0
43	427	___	2,4-DINITROTOLUENE (Q3#14) <121-14	25.4		840.0	330.0
44	428	___	2,6-DZNITROTOLUENE (Q3#15) <606-20			BDL	330.0
45	424	___	DIETHYL PHTHALATE (Q3#16) <84-66-2			BDL	330.0
46	417	___	4-CHLOROPHENYL PHENYL ETHER (Q3#17			BDL	330.0
47	432	___	FLUORENE (Q3#18) <86-73-7>			BDL	330.0
48	480	___	4-NITROANILINE (Q3#19) <100-01-6>			BDL	1600.0
49	604	___	4,6-DINITRO-2-METHYLPHENOL (Q4#2			BDL	1600.0
51	443	___	N-NITROSODIPHENYLAMINE (Q4#3) <86-			BDL	330.0
52	414	___	4-BROMOPHENYL PHENYL ETHER (Q4#4			BDL	330.0
53	433	___	HEXACHLOROBENZENE (Q4#5) <118-74-			BDL	330.0
54	609	___	PENTACHLOROPHENOL (Q4#6) <87-86-	69.5		2300.0	1600.0
55	444	___	PHENANTHRENE (Q4#7) <85-01-8>			BDL	330.0
56	412	___	ANTHRACENE (Q4#8) <120-12-7>			BDL	330.0
57	426	___	DI-N-BUTYL PHTHALATE (Q4#9) <84-74	52.8		1800.0	330.0
58	431	___	FLUORANTHENE (Q4#10) <206-44-0			BDL	330.0

No	CC ID#	Lab Cde	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detection Limit (ug/kg)
60	404	___	BENZIDINE (Q5#2) <92-87-5>	~~46.4~~		~~1600.0~~ BDL	1600.0
61	445	___	PYRENE (Q5#3) <129-00-0>	63.7		2100.0	330.0
62	415	___	BUTYLBENZYL PHTHALATE (Q5#4) <85-6			BDL	330.0
63	423	___	3,3'-DICHLOROBENZIDINE (Q5#5) <91-			BDL	660.0
64	405	___	BENZO(A)ANTHRACENE (Q5#6) <56-55-3			BDL	330.0
65	413	___	BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7)			BDL	330.0
66	418	___	CHRYSENE (Q5#8) <218-01-9>			BDL	330.0
67	429	___	DI-N-OCTYL PHTHALATE (Q6#2) <117-8			BDL	330.0
68	407	___	BENZO(B)FLUORANTHENE (Q6#3) <205-9	6.3		J	330.0
70	409	___	BENZO(K)FLUORANTHENE (Q6#4) <207-0	6.3		J	330.0
71	406	___	BENZO(A)PYRENE (Q6#5) <50-32-8.			BDL	330.0
72	427	___	INDENO(1,2,3-C,D)PYRENE (Q6#6) <19			BDL	330.0
73	419	___	DIBENZO(A,H)ANTHRACENE (Q6#7) <5-			BDL	330.0
74	408	___	BENZO(G,H,I)PERYLENE (Q6#8) <191-2			BDL	330.0

1R

No	GC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P
75	##	2-FLUOROPHENOL (SS#1)	79.5	98.4	81.0	20-140	X
76	##	D5-PHENOL (SS#2)	80.2	98.4	82.0	20-140	X
77	##	D5-NITROBENZENE (SS#3)	40.3	49.2	82.0	20-140	X
78	##	2-FLUOROBIPHENYL (SS#4)	41.1	49.2	84.0	20-140	X
79	##	2,4,6-TRIBROMOPHENOL (SS#5)	83.2	98.4	84.0	10-140	X
80	##	D14-TERPHENYL (SS#6)	61.0	49.2	124.0	20-150	X
81	##	D10 PYRENE	64.4	49.2	131.0	33-128*	

* Advisory surrogate only
++ % Recovery = Quant Report Value / Quant Report Amount Spiked X 100 %

F F

Internal Standard (#52) D10-Phenanthrene > 40000 Cnts ___ ___

Correction Factor Calculation:

$$\frac{\text{Final Extract Volume (ml)}}{\text{Split Factor (*)}} \times \frac{30.0\text{g}}{\text{Amount Extr. (g/ml)}} \times \frac{\text{Dry Weight}}{\text{Factor}} \times \frac{\text{GC/MS Dilution}}{\text{Factor}} = 33.3$$

$$\frac{3.6\text{ml}}{0.590} \times \frac{30.0\text{g}}{30.6\text{g}} \times \frac{1.0}{1.0} \times 33.3 = 33.200$$

* Split Factor = (295/300)(6/10) if PEST/TCDD Volumes are indicated on LOG
= 1 if PEST/TCDD Volumes are NOT indicated on Extraction LOG

Quant Report Amount Spiked Conversion Factor

$$\frac{1000\text{ ul}}{\text{Amount Surrogate Added (ul)}} \times \frac{\text{Final Extract Vol (ml)}}{\text{Split Factor}} \times \text{GCMS Dilution Factor} =$$

$$\frac{1000\text{ ul}}{500\text{ ul}} \times \frac{0.6\text{ml}}{0.590\text{ml}} \times \frac{1.0}{} = 2.030$$

Verified

EXTRACTION WORKSHEET

Semi-Volatiles / Miscellaneous

ASSIGNED TO: Deltwerk L.H.T

DATE ASSIGNED 5-21-85

PAGE ______ OF ______

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49821R	277	GenTest	NA	SS	49827	30.63		0.6ml		4ml			5/21	Re 49827 277/307
49822R		↓	NA	SS	49827	30.5g		0.6ml		4.0ml			5/21	Pest. Back up
S1044						30.0ml		0.6	0.6ml	4.0ml			5/21	
S1045	↓			S?		30.0ml		0.6	0.6ml	4.0ml			5/21	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	293					
	AMT.	0.5ml					
	LOT	14693					
SPIKE	NO.		[illegible]	[illegible]			
	AMT.		[illegible]	[illegible]			
	LOT		14655	14657			

MANUAL COUNTER 296/310

FINAL VOLUME VERIFIED L.H.P.

SUPERVISOR REVIEWED [illegible]

EXTRACTS RECEIVED BY BD 5/21/85

№ 6187

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
507054 MSD

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: GM049825A12
Sample matrix: soil
Data Release
Authorized By: _____

Case: GEN TEST
QC Report No: 2234/3028
Contract No:
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 5-6-85
Date analyzed: 5-8-85
Conc/Dil Factor: 1.78
Percent moisture: 44%
Percent moisture (decanted):
pH:

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	16.	U	78-87-5	1,2-Dichloropropane	8.9	U
74-83-9	Bromomethane	18.	U	10061-02-6	trans-1,3-Dichloropropene	8.9	U
75-01-4	Vinyl Chloride	18.	U	79-01-6	Trichloroethene	8.9	U
75-00-3	Chloroethane	18.	U	124-48-1	Dibromochloromethane	8.9	U
75-09-2	Methylene Chloride	46.	B	79-00-5	1,1,2-Trichloroethane	8.9	U
67-64-1	Acetone	87.	B	71-43-2	Benzene	8.9	U
75-15-0	Carbon Disulfide	8.9	U	10061-01-5	cis-1,3-Dichloropropene	8.9	U
75-35-4	1,1-Dichloroethene	8.9	U	110-75-8	2-Chloroethyl Vinyl Ether	18.	U
75-34-3	1,1-Dichloroethane	8.9	U	75-25-2	Bromoform	8.9	U
156-60-5	trans-1,2-Dichloroethene	8.9	U	591-78-6	2-Hexanone	18.	U
67-66-3	Chloroform	8.9	U	108-10-1	4-Methyl-2-pentanone	18.	U
107-06-2	1,2-Dichloroethane	8.9	U	127-18-4	Tetrachloroethene	8.9	U
78-93-3	2-Butanone	18.	U	108-88-3	Toluene	8.9	U
71-55-6	1,1,1-Trichloroethane	8.9	U	108-90-7	Chlorobenzene	8.9	U
56-23-5	Carbon Tetrachloride	8.9	U	100-41-4	Ethyl Benzene	8.9	U
108-05-4	Vinyl Acetate	18.	U	100-42-5	Styrene	8.9	U
75-27-4	Bromodichloromethane	8.9	U		Total Xylenes	8.9	U
79-34-5	1,1,2,2-Tetrachloroethane	8.9	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Environmental Protection Agency. CLP Sample Management Office.
P O Box 818 Alexandria Virginia 22313 703/557-2490

Sample Number
50705H msD

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	None	V		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

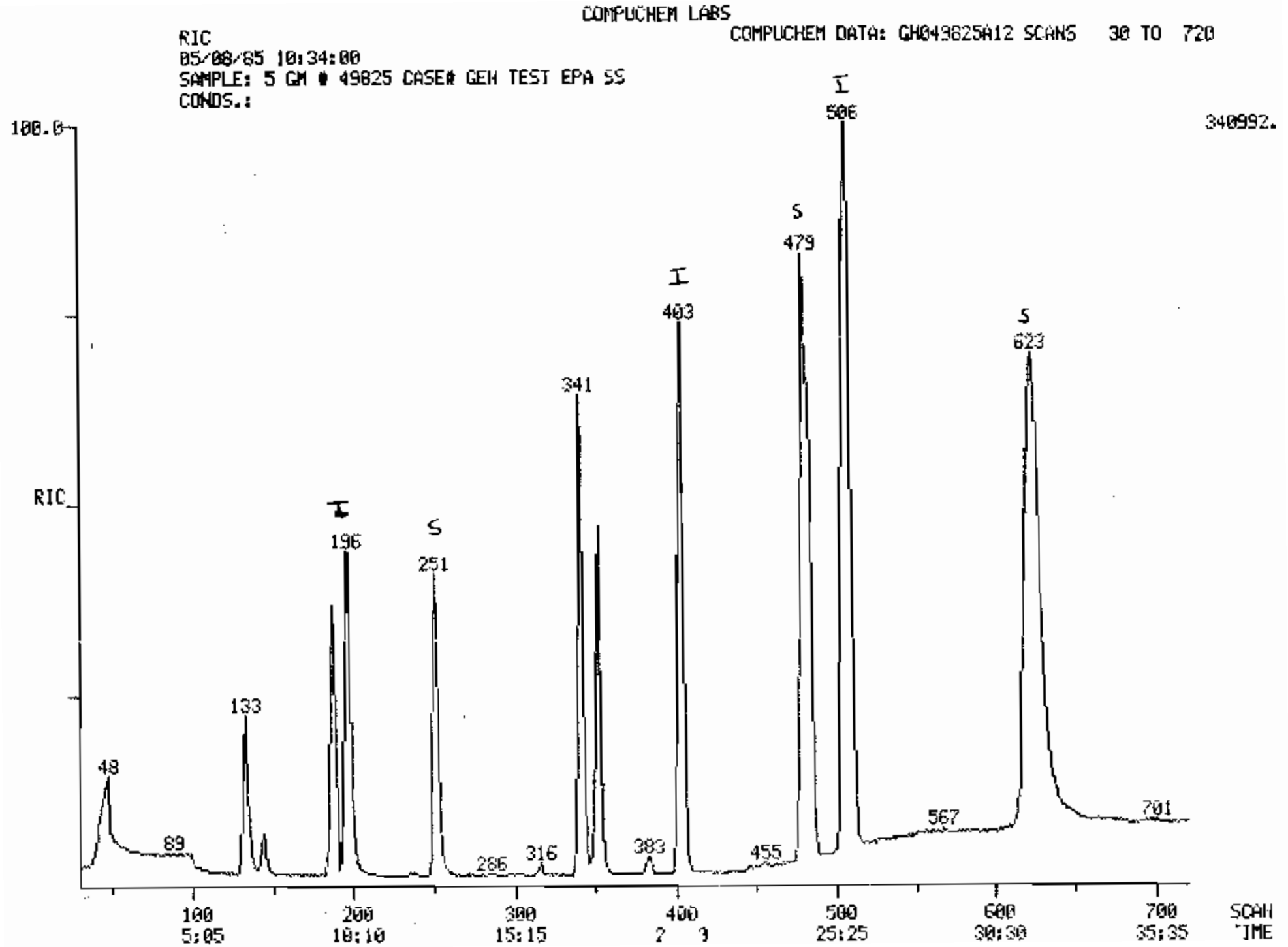
QUALITY ASSURANCE NOTICE
sample # 49825
fraction VOA

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 46 _____ _____ _____ _____ _____

QAN10S
850218

5/01/85


COMPUCHEM LABS
COMPUCHEM DATA: GH043025A12 SCANS 30 TO 720
RIC
05/08/85 10:34:00
SAMPLE: 5 GM # 49825 CASE# GEH TEST EPA SS
CONDS.:
100.0
340992.
RIC
I
506
S
479
I
403
S
623
341
I
196
S
251
133
48
89
286
316
383
455
567
701
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
TIME

Internal Standard Area Monitor

Method: E238 Filename: CH049825A12 Date: 05/08/85
Shift Std: GS850508C12 Time: 10:34

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	99661.	104733.	-4.	PASS
* 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)	375167.	367406.	2.	PASS
* D5 CHLOROBENIENE(INTERNAL STANDARD)	364750.	360445.	1.	PASS

QUANTITATION REPORT FILE: GH049B25A12

DATA: GH049B25A12.TI
05/08/85 10:34:00
SAMPLE: 5 GM # 49825 CASE# GEN TEST EPA 55
MDS. :
SUBMITTED BY: 12 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLORDETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENIENE
36	219 ETHYLBENIENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# 04-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENIENE
42	# DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	196	9:58	1	1.000	A BV	99662.	50.000 UG/KG	8.34
2	50	NOT FOUND							

PROCEDURE: RK DIAGNOSTIC REPORT 5/08/85 11:03:25
DATA FILE: GH049825A12
REFERENCE: E238
METHOD: E238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	FOSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	13	1	28	E238S/E238U

42 COMPOUNDS PROCESSED, 13 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E5	1	-197	196	196	.	1	978	.	128	196	.	1
2	E6	1	-403	403	403	.	1	995	.	114	403	.	1
3	E7	1	-505	505	505	.	1	975	.	117	505	.	1
4	E5	2	-36	36	.	.	.	.	.	50	.	.	.
5	E5	3	-55	55	.	.	.	.	.	94	.	.	.
6	E5	4	-70	70	.	.	.	.	.	62	.	.	.
7	E5	5	-90	90	.	.	.	.	.	64	.	.	.
8	E5	6	-133	133	133	.	1	982	.	84	133	.	1
9	E5	7	-144	144	144	.	1	971	.	43	144	.	1
10	E5	8	-164	164	.	.	.	.	.	76	165	.	1
11	E5	9	-187	187	187	.	1	984	.	96	187	.	1
12	E5	10	-213	213	.	.	.	.	.	63	.	.	.
13	E5	11	-227	227	.	.	.	.	.	96	.	.	.
14	E5	12	-238	238	.	.	.	.	.	83	238	.	1
15	E5	13	-253	253	.	.	.	.	.	62	253	.	1
16	E6	2	-251	251	251	.	1	958	.	72	251	.	1
17	E6	3	-280	280	.	.	.	.	.	97	.	.	.
18	E6	4	-288	288	.	.	.	.	.	117	.	.	.
19	E6	5	-289	289	.	.	.	.	.	43	.	.	.
20	E6	6	-297	297	.	.	.	.	.	83	.	.	.
21	E6	7	-325	325	.	.	.	.	.	63	.	.	.
22	E6	8	-330	330	.	.	.	.	.	75	.	.	.
23	E6	9	-341	341	341	.	1	980	.	130	341	.	1
24	E6	10	-353	353	.	.	.	.	.	129	.	.	.
25	E6	11	-355	355	.	.	.	.	.	97	.	.	.
26	E6	12	-352	352	352	.	1	994	.	78	352	.	1
27	E6	13	-356	356	.	.	.	.	.	75	.	.	.
28	E6	14	-377	377	.	.	.	.	.	63	.	.	.
29	E6	15	-407	407	.	.	.	.	.	173	.	.	.
30	E7	2	-418	418	.	.	.	.	.	43	419	.	2
31	E7	3	-450	450	.	.	.	.	.	43	449	.	1
32	E7	4	-455	455	.	.	.	.	.	164	.	.	.
33	E7	5	-454	454	.	.	.	.	.	83	.	.	.
34	E7	6	-483	483	483	.	1	986	.	92	483	.	1
35	E7	7	-508	508	508	.	1	993	.	112	508	.	1
36	E7	8	-557	557	.	.	.	.	.	106	.	.	.
37	E7	9	-661	661	.	.	.	.	999	104	.	.	.
38	E7	10	-670	670	.	.	.	.	999	106	.	.	.
39	E7	11	-670	670	.	.	.	.	999	106	.	.	.
40	E8	2	-251	251	251	.	1	992	.	65	251	.	1
41	E8	3	-622	622	.	.	.	.	999	95	.	.	.
42	E8	4	-479	479	479	.	1	991	.	98	479	.	1

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	133	6:46	1	0.679	A BV	66084.	25.714 UG/KG	4.29
7	43	144	7:19	1	0.735	A BB	47086.	48.735 UG/KG	8.13
8	76	165	8:23	1	0.842	A BB	952.	0.146 UG/KG	0.02
9	96	187	9:30	1	0.954	A BV	87749.	39.882 UG/KG	6.65
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	238	12:06	1	1.214	A BB	2334.	0.449 UG/KG	0.07
13	62	253	12:52	1	1.291	A BB	1103.	0.313 UG/KG	0.05
14	114	403	20:29	14	1.000	A BV	395168.	50.000 UG/KG	8.34
15	72	251	12:46	14	0.623	A BB	7675.	16.409 UG/KG	8.74
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	341	17:20	14	0.846	A BB	147864.	36.543 UG/KG	6.10
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	352	17:54	14	0.873	A BB	239084.	42.482 UG/KG	7.09
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BB	364751.	50.000 UG/KG	8.34
30	43	419	21:18	29	0.830	A*VB	1757.	0.423 UG/KG	0.07
31	43	449	22:49	29	0.889	A VV	766.	0.232 UG/KG	0.04
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	483	24:33	29	0.956	A BB	176777.	41.301 UG/KG	6.89
35	112	508	25:49	29	1.006	A BB	266417.	39.227 UG/KG	6.54
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	251	12:46	1	1.281	A BV	186369.	55.554 UG/KG	9.27
41	95	623	31:40	29	1.234	A BB	280076.	47.736 UG/KG	7.96
42	98	479	24:21	1	2.444	A BV	361861.	54.355 UG/KG	9.07

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50		10.000			50.00		1.072	
3	2:48		10.000			50.00		1.438	
4	3:33		10.000			50.00		1.232	
5	4:34		10.000			50.00		0.618	
6	6:46	1.00	5.000	0.14	25.71	50.00	0.663	1.289	0.51
7	7:19	1.00	10.000	0.07	48.74	50.00	0.472	0.485	0.97
8	8:20	1.01	5.000	0.17	0.15	50.00	0.010	3.281	0.00
9	9:30	1.00	5.000	0.19	39.88	50.00	0.880	1.104	0.80
10	10:50		5.000			50.00		1.976	
11	11:32		5.000			50.00		1.157	
12	12:06	1.00	5.000	0.24	0.45	50.00	0.023	2.611	0.01
13	12:52	1.00	5.000	0.26	0.31	50.00	0.011	1.771	0.01
14	20:25	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	16.41	50.00	0.019	0.059	0.33
16	14:14		5.000			50.00		0.595	
17	14:38		5.000			50.00		0.642	
18	14:41		10.000			50.00		0.491	
19	15:06		5.000			50.00		0.643	
20	16:31		5.000			50.00		0.347	
21	16:46		5.000			50.00		0.240	
22	17:20	1.00	5.000	0.17	36.54	50.00	0.374	0.512	0.73
23	17:57		5.000			50.00		0.595	
24	18:03		5.000			50.00		0.330	
25	17:54	1.00	5.000	0.17	42.48	50.00	0.605	0.712	0.85
26	18:06		5.000			50.00		0.684	
27	19:10		10.000			50.00		0.232	
28	20:41		5.000			50.00		0.696	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.00	10.000	0.08	0.42	50.00	0.005	0.569	0.01
31	22:52	1.00	10.000	0.09	0.23	50.00	0.002	0.452	0.00
32	23:08		5.000			50.00		0.619	
33	23:05		5.000			50.00		0.666	
34	24:33	1.00	5.000	0.19	41.30	50.00	0.485	0.587	0.83
35	25:49	1.00	5.000	0.20	39.23	50.00	0.730	0.931	0.78
36	28:19		5.000			50.00		0.501	
37	33:36		5.000			50.00		1.257	
38	34:03		5.000			50.00		0.717	
39	34:03		5.000			100.00		0.359	
40	12:46	1.00	10.000	0.13	55.55	50.00	1.870	1.683	1.11
41	31:37	1.00	10.000	0.12	47.74	50.00	0.768	0.804	0.95
42	24:21	1.00	10.000	0.24	54.35	50.00	3.631	3.340	1.09

CASE#:GEN.T (T DUE DATE: 5/24/85

VOA

GC/MS WORKSHEET SAMPLE/REF#: 49825

R[ ] R2[ ] D[ ] (:1)

R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code---155
Instrument Code---257
Compound List---146
Surrogate Std---394
Internal Std---036

SAS: LAB#: SS 279/1148 Dry Weight Factor 1.80

GC/MS ANALYSIS

Amount Purged: [✓] 10mls/Mg soil or [ ] Dilution ______ul/10000ul/Kg soil

Internal Standard Volume Added ______5___ul

Surrogate Standard Volume Added ______5___ul

10ul Spike added

BFB File Name BFB1105 ______ Disk (128)

Blank Filename G116505 ______ Disk ( )

Standard Filename G1650 ______ Disk ( )

Sample Filename GH049F25812 ______ Disk ( )

ANALYST(S): Injection 597 Work-up 597

SCAN REVIEW

CONDITION CODE: OK

Entry Codes OK,RA,ES,SA,MS,SL,SH,JA,DA

Non Entry Codes IM,TL,IH,SR,CT,SS,RC,NR
1F,LA,DI,CC,SI,SW,SI,SF
UP,BF,NT,MC,RC,NS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: ______

[ ] Reprep not required

[ ] Reprep using ______g

Quality Reviewed Nitrile(s):
Nitrile Reported 1

[ ] Dilute (:1)

COMMENTS: ...ed 48

GC/MS Analyst: [initials] Date 5/10/85 Auditor ______ Date / /

REPORT INFORMATION
Final Reportable Package(s): GH049825412

Total # of Injections: 1

COMMENTS:

Initials ______ Date __/__/__

REVIEWED: Initials ______ Date __/__/__

FP [illegible] (11/84)

[stamp] 5/12/85

Volatile - Low Level Solid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/kg)		Detection Limit (ug/kg)
2	221	___	CHLOROMETHANE			BDL		18.0
3	220	___	BROMOMETHANE			BDL		18.0
4	231	___	VINYL CHLORIDE			BDL		18.0
5	209	___	CHLOROETHANE			BDL		18.0
6	222	___	METHYLENE CHLORIDE	25.T		46.0	[illegible]	8.9
7	252	___	ACETONE (2-PROPANONE)	48.7		87.0		18.0
8	254	___	CARBON DISULFIDE			BDL		8.9
9	216	___	1,1-DICHLOROETHYLENE	39.9		71.0		8.9
10	214	___	1,1-DICHLOROETHANE			BDL		8.9
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL		8.9
12	211	___	CHLOROFORM			BDL		8.9
13	215	___	1,2-DICHLOROETHANE			BDL		8.9
15	253	___	2-BUTANONE	~~16.4~~		BDL 0		18.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL		8.9
17	206	___	CARBON TETRACHLORIDE			BDL		8.9
18	25T	___	VINYL ACETATE			BDL		18.0
19	212	___	BROMODICHLOROMETHANE			BDL		8.9
20	217	___	1,2-DICHLOROPROPANE			BDL		8.9
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL		8.9
22	229	___	TRICHLOROETHYLENE	36.5		65.0		8.9
23	208	___	CHLORODIBROMOMETHANE			BDL		8.9
24	228	___	1,1,2-TRICHLOROETHANE			BDL		8.9
25	203	___	BENIENE	42.5		76.0		8.9
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL		8.9
27	210	___	2-CHLORDETHYL VINYL ETHER			BDL		18.0
28	205	___	BROMOFORM			BDL		8.9
30	255	___	2-HEXANONE			BDL		18.0
31	256	___	4-METHYL-2-PENTANONE			BDL		18.0
32	224	___	TETRACHLOROETHENE			BDL		5.9
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL		8.9
34	225	___	TOLUENE	41.3		74.0		8.9
35	207	___	CHLOROBENIENE	39.2		70.0		8.9
36	219	___	ETHYLBENZENE			BDL		8.9
37	251	___	STYRENE			BDL		8.9
38	239	___	M-XYLENE			BDL		8.9
39	240/	___	241 O- & P-XYLENE			BDL		8.9

	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	55.6	50.0	111.0	50-160	X	
41		BROMOFLUOROBENIENE	47.7	50.0	95.0	50-160	X	
42		DB-TOLUENE	54.4	50.0	109.0	50-160	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	✓	

Correction Factor Calculation:

$$\frac{5.0\ \text{g}}{\text{Wet Weight of Sample (g)}} \times \text{GC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ \text{g}}{5.0\ \text{(g)}} \times \frac{1.0}{} \times \frac{1.8}{} = 1.780$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

(13)

VOLATILE PREP WORKSHEET

(19)

ASSIGNED TO Ron

№ 1192

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
49816	~~15~~	gen Lot			5.00g.	5-6-85					
49818					5.00g.			/			
49823			BS		Blank						
49824			SS	49826	5.03g.			/			
49825			SS	49826	5.05g.			/			
49827					5.00g.			/			
49828					5.01g.			/			
49829					5.01g.			/			
49830					5.09g.			/			
49831					5.04g.			/			
49859					5.10g.			/			
49860					5.00g.	↓		/			
49911			B		10ml	5-6-85	/				
49912			B		Blank	↓					
			B								

Surrogate No. _____

Amount _____

Lot _____

Extracts Received 5/6/85 BD

Schedule Reference 299/328 /

Manual Counter 258/344 /

Issued 5/9 PM

vironmental Protection Agency, CLP Sample Management Office
.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705[illegible] MSD

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem
Concentration: low
Date extracted/prepared: 05-21-85
Date analyzed: 05-22-85
Conc/Dil Factor: 33.30

CAS Number		ug/kg		CAS Number		ug/kg	
62-75-9	N-Nitrosodimethylamine	330	U	99-09-2	3-Nitroaniline	1700	U
108-95-2	Phenol	330	U	83-32-9	Acenaphthene	330	U
62-53-3	Aniline	330	U	51-28-5	2,4-Dinitrophenol	1700	U
111-44-4	bis(2-Chloroethyl) ether	330	U	100-02-7	4-Nitrophenol	1700	U
95-57-8	2-Chlorophenol	330	U	132-64-9	Dibenzofuran	330	U
541-73-1	1,3-Dichlorobenzene	330	U	121-14-2	2,4-Dinitrotoluene	330	U
106-46-7	1,4-Dichlorobenzene	330	U	606-20-2	2,6-Dinitrotoluene	330	U
100-51-6	Benzyl Alcohol	330	U	84-66-2	Diethylphthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U	7005-72-3	4-Chlorophenyl Phenyl ether	330	U
95-48-7	2-Methylphenol	330	U	86-73-7	Fluorene	330	U
39638-32-9	bis(2-Chloroisopropyl) ether	330	U	100-01-6	4-Nitroaniline	1700	U
106-44-5	4-Methylphenol	330	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
621-64-7	N-Nitroso-Dipropylamine	330	U	86-30-6	N-nitrosodiphenylamine (1)	330	U
67-72-1	Hexachloroethane	330	U	101-55-3	4-Bromophenyl Phenyl ether	330	U
98-95-3	Nitrobenzene	330	U	118-74-1	Hexachlorobenzene	330	U
78-59-1	Isophorone	330	U	87-86-5	Pentachlorophenol	1700	U
88-75-5	2-Nitrophenol	330	U	85-01-8	Phenanthrene	330	U
105-67-9	2,4-Dimethylphenol	330	U	120-12-7	Anthracene	330	U
65-85-0	Benzoic Acid	1700	U	84-74-2	Di-n-butylphthalate	330	U
111-91-1	bis(2-Chloroethoxy) methane	330	U	206-44-0	Fluoranthene	330	U
120-83-2	2,4-Dichlorophenol	330	U	92-87-5	Benzidine	1700	U
120-82-1	1,2,4-Trichlorobenzene	330	U	129-00-0	Pyrene	330	U
91-20-3	Naphthalene	330	U	85-68-7	Butyl Benzyl Phthalate	330	U
106-47-8	4-Chloroaniline	330	U	91-94-1	3,3'-Dichlorobenzidine	660	U
87-68-3	Hexachlorobutadiene	330	U	56-55-3	Benzo(a)anthracene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U	117-81-7	bis(2-ethylhexyl)phthalate	330	U
91-57-6	2-Methylnaphthalene	330	U	218-01-9	Chrysene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U	117-84-0	Di-n-octyl Phthalate	330	U
88-06-2	2,4,6-Trichlorophenol	330	U	205-99-2	Benzo(b)fluoranthene	330	U
95-95-4	2,4,5-Trichlorophenol	1700	U	207-08-9	Benzo(k)fluoranthene	330	U
91-58-7	2-Chloronaphthalene	330	U	50-32-8	Benzo(a)pyrene	330	U
88-74-4	2-Nitroaniline	1700	U	193-39-5	Indeno(1,2,3-cd)pyrene	330	U
131-11-3	Dimethyl Phthalate	330	U	53-70-3	Dibenz(a,h)anthracene	330	U
208-96-8	Acenaphthylene	330	U	191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)
1	108-10-1	2-PENTANONE,4-METHYL- ALKANONE	SEMI1	228	190.
2	108-88-3	BENZENE,METHYL- TOLUENE	SEMI1	259	890.
3	15870-10-7	1-HEPTENE,2-METHYL- ALKENE OR CYCLOALKANE	SEMI1	284	150.
4	111-65-9	OCTANE ISOMER	SEMI1	297	810.
5	1678-91-7	CYCLOHEXANE,ETHYL- CYCLOALKANE	SEMI1	331	580.
6	17574-86-6	1-HEPTEN-1-OL,ACETATE,(Z)- UNKNOWN	SEMI1	339	2700.
7	1839-63-0	CYCLOHEXANE,1,3,5-TRIMETHYL- ISOMER	SEMI1	348	96.
8	3074-71-3	HEPTANE,2,3-DIMETHYL- ISOMER	SEMI1	353	190.
9	2213-23-2	HEPTANE,2,4-DIMETHYL- ISOMER	SEMI1	361	570.
10	2216-33-3	OCTANE,3-METHYL- ALKANE	SEMI1	367	850.
11	111-84-2	NONANE ISOMER	SEMI1	391	160.
12	629-78-7	HEPTADECANE ALKANE	SEMI1	788	230.
13	57-10-3	HEXADECANOICACID ALIPHATIC ACID	SEMI1	931	340.
14	646-30-0	NONADECANOICACID ALIPHATIC ACID	SEMI1	1002	360.

IR
5-24-85

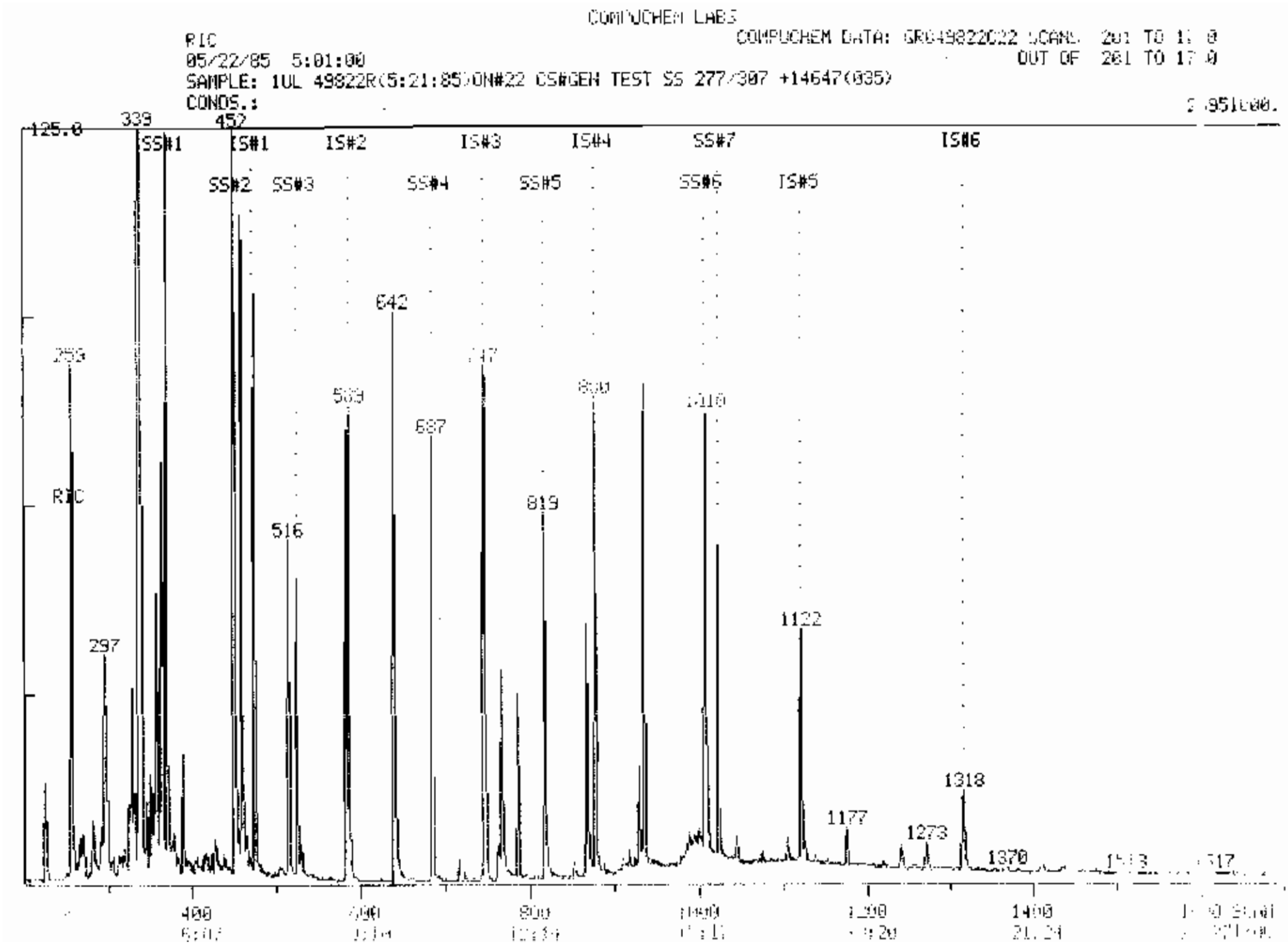
SAMPLE NUMBER

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
15	629-94-7	HEHEICOSANE ALKANE	SEMI1	1046	200.	J
16	629-94-7	HENEICOSANE ALKANE	SEMI1	1107	170.	J
17	629-94-7	HENEICOSANE ALKANE	SEMI1	1177	260.	J
18	638-66-4	OCTADECANAL OXY ALIPHATIC	SEMI1	1243	350.	J
19	629-99-2	PENTACOSANE ALKANE	SEMI1	1273	450.	J

1R
5-24-85


COMPUCHEM LABS
RIC
05/22/85 5:01:00
COMPUCHEM DATA: GR049822022 SCANS 201 TO 1: 0
OUT OF 201 TO 17 0
SAMPLE: 1UL 49822R(5:21:85)ON#22 CS#GEN TEST SS 277/307 +14647(035)
CONDS.:
125.0
339
452
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
642
256
503
687
747
800
1010
RIC
819
516
297
1122
1318
1177
1273
1370
400
800
1200
1400

Internal Standard Area Monitor

Method: SEMI1 Filename: GR0[illegible] Date: 05/22/8[illegible]
Shift Std: HG850521B22 Time: 5:01

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*** D4-1,4-DICHLOROBENZENE (IS#1)	2494110.	1617980.	54	Pass
*** D8-NAPHTHALENE (IS#2)	8591200.	5625050.	53.	Pass
*** D10-ACENAPHTHENE (IS#3)	4715580.	2987070.	58.	Pass
*** D10-PHENANTHRENE (IS#4)	7435230.	5065310.	47.	Pass
*** D12-CHRYSENE (IS#5)	3631190.	3587800.	1	Pass
*** D12-PERYLENE (IS#6)	2644250.	3700150.	-28	Pass

```
PROCEDURE: RK                DIAGNOSTIC REPORT                    5/22/85  5:33:1
DATA FILE: GR049822C22
REFERENCE: SEMI1
   METHOD: SEMI1   INITIALIZATION OPTION: 2   PROCESSING OPTION: 3
   REPORT: SEMI1S1

< ---- STANDARDS ----- >< --- PLUS UNKNOWNS --- >< - LIST NAMES - >
 PROC  USED  POSS   RMS   PROC  USED  POSS   RMS  STANDARD/UNKNOWN
    4     4     1    68     59    14     1   153  SEMI1S1/SEMI1U1
    3     3     4    37     28    11     1    45  SEMI1S2/SEMI1U2

   91 COMPOUNDS PROCESSED, 25 FOUND

   COMPOUND >< ---------- SEARCH ---------- >< SAT >< ------ CHRO ------
 NO LIB ENTRY   REF  PRED  SEL DELTA PEAKS  FIT PEAKS   M/E  TOP DELTA PEAKS
  1  01     1  -477   477  476    -1     1  944      .  152  476     .     1
  2  03     1  -746   747  747     .     1  997      .  164  747     .     1
  3  02     1  -588   588  589     1     1  943      .  136  588    -1     1
  4  07     2  -373   372  372     .     1  915      .  112  372     .     1
  5  01     2  -231   230    .     .     .     .      .   42  228     .     .
  6  01     3  -454   454    .     .     .     .      .   94  453     .     1
  7  01     4  -453   453    .     .     .     .      .   93  453     .
  8  01     5  -459   459    .     .     .     .      .   93  461     .     1
  9  01     6  -462   462    .     .     .     .      .  128  461     .     1
 10  01     7  -473   473  478     5     1  925      .  146  478     .     1
 11  01     8  -478   478  478     .     1  936      .  146  478     .     1
 12  01     9  -492   492    .     .     .     .      .  108    .     .     .
 13  01    10  -494   494    .     .     .     .      .  146  491     .     2
 14  01    11  -504   505    .     .     .     .      .  108    .     .     .
 15  01    12  -506   507    .     .     .     .      .   45  506     .     1
 16  01    13  -516   517    .     .     .     .      .  108    .     .     .
 17  01    14  -517   516    .     .     .     .      .   70  516     .     1
 18  01    15  -520   521    .     .     .     .      .  117    .     .     .
 19  01    16  -529   530    .     .     .     .      .   77  527     .     3
 20  02     2  -549   550    .     .     .     .      .   82  547     .     1
 21  02     3  -556   557    .     .     .     .      .  139    .     .     .
 22  02     4  -561   562    .     .     .     .      .  122    .     .
 23  02     5  -574   575    .     .     .     .      .  122    .     .
 24  02     6  -570   571    .     .     .     .      .   93    .     .     .
 25  02     7  -577   578    .     .     .     .      .  162    .
 26  02     8  -584   585  585     .     1  959      .  180  585     .     1
 27  02     9  -589   590    .     .     .     .      .  126  590     .     2
 28  02    10  -597   598    .     .     .     .      .  127    .     .
 29  02    11  -606   607    .     .     .     .      .  225    .     .
 30  02    12  -640   641  642     1     1  914      .  107  642     .     1
 31  02    13  -651   652    .     .     .     .      .  142  653     .     1
 32  03     2  -671   672    .     .     .     .      .  237    .     .
 33  03     3  -679   680    .     .     .     .      .  196    .     .
 34  03     4  -679   680    .     .     .     .      .  196    .     .
 35  03     5  -694   695    .     .     .     .      .  162  693     .     1
 36  03     6  -707   708    .     .     .     .      .   65  710     .     .
 37  03     7  -726   727    .     .     .     .      .  163    .     .     .
 38  03     8  -732   734    .     .     .     .      .  152  734     .     1
 39  03     9  -707   708    .     .     .     .      .  138    .     .     .
 40  03    10  -749   751  750    -1     1  981      .  153  750     .     1
 41  03    11  -753   755    .     .     .     .      .  184    .
 42  03    12  -763   766    .     .     .     .      .  121  764     .     .
 43  03    13  -763   765    .     .     .     .      .  168    .     .     .
 44  03    14  -766   76E  768     .     1  919      .   99  768     .     1
 45  03    15  -732   734    .     .     .     .      .  165    .     .     .
 46  03    16  -789   791    .     .     .     .      .  149  791     .     1
 47  03    17  -794   796    .     .     .     .      .  204    .     .     .
```

49	03	19	-800	802	.	.	.	.	.	138	.	.	
50	07	3	-453	453	452	-1	2	913	.	99	452	.	
51	07	4	-527	528	527	-1	1	957	.	82	527	.	1
52	07	5	-686	687	687	.	1	975	.	172	687	.	1
53	07	6	-817	819	819	.	2	942	.	141	819	.	2
54	04	1	-877	880	880	.	1	991	.	188	880	.	1
55	05	1	-1118	1122	1122	.	3	999	.	240	1122	.	3
56	06	1	-1314	1318	1318	.	4	1000	.	264	1318	.	4
57	04	2	-803	805	.	.		.	.	198	.	.	
58	04	3	-805	807	.	.	.	.	.	169	809	.	2
59	04	4	-837	839	.	.		.	.	248	.	.	
60	04	5	-850	852	.	.		.	.	284	.	.	
61	04	6	-867	869	869	.	3	963	.	266	869	.	3
62	04	7	-879	882	882	.	1	947	.	178	882	.	1
63	04	8	-879	882	.	.		.	.	178	882	.	1
64	04	9	-935	938	937	-1	1	955	.	149	937	.	1
65	04	10	-987	990	990	.	1	901	.	202	990	.	1
66	05	2	-1006	1009	.	.		.	.	184	1009	.	2
67	05	3	-1007	1010	1010	.	3	986	.	202	1010	.	3
68	05	4	-1068	1071	.	.		.	.	149	1072	.	4
69	05	5	-1115	1119	.	.		.	.	252	.	.	
70	05	6	-1117	1121	.	.		.	.	228	1124	.	3
71	05	7	-1124	1128	1128	.	1	967	.	149	1127	-1	.
72	05	8	-1121	1125	.	.	.	.	.	228	1124	.	3
73	06	2	-1195	1199	.	.		.	.	149	1200	.	2
74	06	3	-1255	1259	.	.		.	.	252	1259	.	3
75	06	4	-1255	1259	.	.	.	.	.	252	1259	.	3
76	06	5	-1304	1308	.	.			.	252	1308		.
77	06	6	-1558	1563	.	.		.	.	276	1560	.	4
78	06	7	-1565	1570	.	.		.	.	278	1570	.	5
79	06	8	.	.	.	.		.	.	276	.	.	
80	07	7	-1022	1025	1025	.	3	986	.	244	1025	.	3
81	08	2	-1006	1009	1009	.	1	923	.	212	1009	.	1

QUANTITATION REPORT FILE: GR049822C22

DATA: GR049822C22.TI
05/22/85 5:01:00
SAMPLE: JUL 49822R(5:21:85)ON#22 CS#GEN TEST SS 277/307 +14647(035)
CONDS.:
SUBMITTED BY: 22 ANALYST: 755

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*** D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,2-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*** D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
76	### D5-PHENOL (SS#2)
77	### D5-NITROBENZENE (SS#3)
78	### 2-FLUOROBIPHENYL (SS#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#6)
81	### D10 PYRENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	476	7:16	1	1.000	A EV	548110.	40.000	NG	3.31
2	42	228	3:29	1	0.479	A VB	152960.	3.112	NG	0.26
3	94	453	6:55	1	0.952	A BV	7337020.	60.806	NG	5.03 Y
4	93	453	6:55	1	0.952	A BB	158304.	1.674	NG	0.14
5	93	461	7:03	1	0.968	A BV	185048.	1.809	NG	0.15
6	128	461	7:03	1	0.968	A BV	6529080.	74.497	NG	6.16Y
7	146	478	7:18	1	1.004	A BV	2791420.	29.080	NG	2.40Y
8	146	478	7:18	1	1.004	A EV	2791420.	29.395	NG	2.43Y
9	108	NOT FOUND								
10	146	491	7:30	1	1.032	A*VB	11104.	0.124	NG	0.01
11	108	NOT FOUND								
12	45	506	7:44	1	1.063	A VV	89945.	0.605	NG	0.05
13	108	NOT FOUND								
14	70	516	7:53	1	1.084	A VV	3[illegible]0.	36.711	NG	3.04Y
15	117	NOT FOUND								
16	77	527	8:03	1	1.107	A*VV	26096.	0.248	NG	0.02
17	136	588	8:59	17	1.000	A BV	[illegible]	40.000	NG	3.31
18	82	547	8:22	17	0.930	A*VV	47224.	0.226	NG	0.02
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	NOT FOUND								
21	122	NOT FOUND								
22	93	NOT FOUND								
23	162	NOT FOUND								
24	180	585	8:56	17	0.995	A BV	2418680.	32.634	NG	2.70 Y
25	128	590	9:01	17	1.003	A*VB	9504.	0.041	NG	0.00
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	642	9:49	17	1.092	A BV	5735260.	64.731	NG	5.35 Y
29	142	653	9:59	17	1.111	A VV	44608.	0.301	NG	0.02
30	164	747	11:25	30	1.000	A BV	4715580.	40.000	NG	3.31
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	693	10:35	30	0.928	A BB	2592.	0.018	NG	0.00
35	65	710	10:51	30	0.950	A*BB	3776.	0.060	NG	0.00
36	163	NOT FOUND								
37	152	734	11:13	30	0.983	A BB	7590.	0.037	NG	0.00
38	138	NOT FOUND								
39	153	750	11:28	30	1.004	A BV	3455350	32.163	NG	2.66 Y
40	184	NOT FOUND								
41	139	764	11:41	30	1.023	A BV	574792.	4.901	NG	0.41
42	168	NOT FOUND								
43	89	768	11:44	30	1.028	A BV	3277860	22.291	NG	1.84Y
44	165	NOT FOUND								
45	149	791	12:05	30	1.059	A BB	22504.	0.121	NG	0.01
46	204	NOT FOUND								
47	166	796	12:10	30	1.066	A*BB	7232.	0.049	NG	0.00
48	138	NOT FOUND								
49	188	880	13:27	49	1.000	A VV	7430230.	40.000	NG	3.31
50	198	NOT FOUND								
51	169	809	12:22	49	0.919	A BV	3168.	0.045	NG	0.00
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	869	13:17	49	0.987	A BV	1265240.	48.945	NG	4.05 Y
55	178	882	13:29	49	1.002	A BV	113408.	0.579	NG	0.05
56	178	882	13:29	49	1.002	A BV	113408.	0.715	NG	0.06
57	149	937	14:19	49	1.065	A VV	10195570.	40.134	NG	3.32Y
58	202	996	15:08	49	1.125	A*BV	234816.	1.223	NG	0.10
59	240	1122	17:09	59	1.000	A VV	3631150.	40.000	NG	3.31
60	184	1009	15:25	59	0.899	A BB	77632.	45.312	NG	3.75M
61	202	1010	15:26	59	0.900	A VV	6568370.	49.077	NG	4.06Y
62	149	1072	16:23	59	0.955	A*VV	25782.	0.395	NG	0.03
63	252	NOT FOUND								
64	228	1124	17:11	59	1.002	A*BV	134032.	1.050	NG	0.09
65	149	1127	17:13	59	1.004	A VV	245860.	2.884	NG	0.24
66	228	1124	17:11	59	1.002	A VV	75456.	0.696	NG	0.06
67	264	1318	20:08	67	1.000	A BV	2644250.	40.000	NG	3.31
68	149	1200	18:20	67	0.910	A*VV	21291.	0.188	NG	0.02
69	252	1259	19:14	67	0.955	A*BV	67136.	1.961	NG	0.16 *
70	252	1259	19:14	67	0.955	A*BV	67136.	1.961	NG	0.16 *
71	252	1308	19:59	67	0.993	A*BV	29440.	0.413	NG	0.03
72	276	1560	23:50	67	1.184	A*VB	11872.	0.131	NG	0.01
73	278	1570	24:00	67	1.191	A VB	4364.	0.067	NG	0.01
74	276	NOT FOUND								
75	112	372	5:41	1	0.782	A VV	5609540.	77.803	NG	6.43

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
76	99	452	6:54	1	0.950	A BV	7661240.	66.794 NG	5.52
77	82	527	8:03	17	0.896	A BV	3860760.	36.141 NG	2.99
7E	172	687	10:30	30	0.920	A BV	5299100.	35.055 NG	2.90
79	141	819	12:31	30	1.096	A BV	8887?4.	66.348 NG	5.49
80	244	1025	15:40	59	0.914	A VV	4383230.	48.241 NG	3.99
81	212	1009	15:25	59	0.899	A VV	5936600.	47.546 NG	3.93

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:32	0.99	10.000	0.05	3.11	50.00	0.049	0.788	0.06
3	6:56	1.00	10.000	0.10	60.81	50.00	2.353	1.935	1.22
4	6:55	1.00	10.000	0.10	1.67	50.00	0.051	1.516	0.03
5	7:01	1.00	10.000	0.10	1.81	50.00	0.060	1.649	0.04
6	7:04	1.00	10.000	0.10	74.50	50.00	2.094	1.406	1.49
7	7:14	1.01	10.000	0.10	29.08	50.00	0.895	1.539	0.58
8	7:18	1.00	10.000	0.10	29.40	50.00	0.895	1.523	0.59
9	7:31		10.000			50.00		0.916	
10	7:33	0.99	10.000	0.10	0.12	50.00	0.004	1.437	0.00
11	7:42		10.000			50.00		1.265	
12	7:44	1.00	10.000	0.11	0.61	50.00	0.029	2.383	0.01
13	7:53		10.000			50.00		1.378	
14	7:54	1.00	10.000	0.11	36.71	50.00	1.031	1.404	0.73
15	7:57		10.000			50.00		0.831	
16	8:05	1.00	10.000	0.11	0.25	50.00	0.009	1.814	0.00
17	9:01	1.00	10.000	0.10	40.00	40.00	1.000	1.060	1.00
18	8:23	1.00	10.000	0.09	0.23	50.00	0.005	1.013	0.00
19	8:30		10.000			50.00		0.196	
20	8:34		10.000			50.00		0.343	
21	8:46		50.000			50.00		0.243	
22	8:43		10.000			50.00		0.471	
23	8:49		10.000			50.00		0.309	
24	8:55	1.00	10.000	0.10	32.63	50.00	0.225	0.345	0.65
25	9:00	1.00	10.000	0.10	0.04	50.00	0.001	1.083	0.00
26	9:07		10.000			50.00		0.400	
27	9:16		10.000			50.00		0.201	
28	9:47	1.00	10.000	0.11	64.73	50.00	0.534	0.413	1.29
29	9:57	1.00	10.000	0.11	0.30	50.00	0.004	0.690	0.01
30	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:15		10.000			50.00		0.241	
32	10:23		10.000			100.00		0.388	
33	10:23		50.000			100.00		0.388	
34	10:36	1.00	10.000	0.09	0.02	50.00	0.000	1.203	0.00
35	10:48	1.00	50.000	0.02	0.06	50.00	0.001	0.535	0.00
36	11:06		10.000			50.00		1.438	
37	11:11	1.00	10.000	0.10	0.04	50.00	0.001	1.718	0.00
38	10:48		50.000			50.00		0.406	
39	11:27	1.00	10.000	0.10	32.16	50.00	0.756	1.175	0.64
40	11:30		50.000			50.00		0.069	
41	11:40	1.00	50.000	0.02	4.90	50.00	0.098	0.995	0.10
42	11:40		10.000			50.00		1.596	
43	11:42	1.00	10.000	0.10	22.39	50.00	0.217	0.486	0.45
44	11:11		10.000			50.00		0.286	
45	12:03	1.00	10.000	0.11	0.12	50.00	0.004	1.569	0.00
46	12:08		10.000			50.00		0.549	
47	12:07	1.00	10.000	0.11	0.01	50.00	0.001	1.361	0.00
48	12:14		50.000			50.00		0.220	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:16		50.000			50.00		0.093	
51	12:18	1.00	10.000	0.09	0.05	50.00	0.000	0.377	0.00
52	12:47		10.000			50.00		0.205	
53	12:59		10.000			50.00		0.288	
54	13:15	1.00	50.000	0.02	48.94	50.00	0.136	0.139	0.98
55	13:26	1.00	10.000	0.10	0.58	50.00	0.012	1.054	0.01
56	13:31	1.00	10.000	0.10	0.72	50.00	0.012	0.853	0.01
57	14:17	1.00	10.000	0.11	40.13	50.00	1.094	1.363	0.80
58	15:05	1.00	10.000	0.11	1.22	50.00	0.025	1.033	0.02
59	17:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:22	1.00	50.000	0.02	45.31	50.00	0.017	0.019	0.91
61	15:23	1.00	10.000	0.09	49.08	50.00	1.434	1.461	0.98
62	16:19	1.00	10.000	0.10	0.39	50.00	0.006	0.719	0.01
63	17:02		20.000			50.00		0.297	
64	17:04	1.01	10.000	0.10	1.05	50.00	0.027	1.301	0.02
65	17:11	1.00	10.000	0.10	2.88	50.00	0.054	0.939	0.06
66	17:08	1.00	10.000	0.10	0.70	50.00	0.017	1.194	0.01
67	20:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:16	1.00	10.000	0.09	0.19	50.00	0.006	1.711	0.00
69	19:11	1.00	10.000	0.10	1.96	100.00	0.010	0.518	0.02
70	19:11	1.00	10.000	0.10	1.96	100.00	0.010	0.518	0.02
71	19:56	1.00	10.000	0.10	0.41	50.00	0.009	1.079	0.01
72	20:49	1.00	10.000	0.12	0.13	50.00	0.003	1.281	0.00
73	20:55	1.00	10.000	0.12	0.07	50.00	0.001	0.993	0.00
74	24:57		10.000			30.00		1.012	
75	5:42	1.00	0.742	1.05	77.80	50.00	1.799	1.156	1.56
76	6:55	1.00	0.948	1.00	66.79	50.00	2.457	1.840	1.34
77	8:03	1.00	0.875	1.02	36.14	50.00	0.360	0.497	0.72
78	10:29	1.00	0.906	1.01	35.05	50.00	0.899	1.282	0.70
79	12:29	1.00	1.118	0.98	66.35	50.00	0.151	0.114	1.33
80	15:37	1.00	0.907	1.01	48.24	50.00	0.966	1.001	0.96
81	15:22	1.00	0.906	0.99	47.55	50.00	1.308	1.375	0.95

CASE#: GEN TEST DATE: 5/24

SEMI-VOLATILE
GC/MS WORKSHEET

COMPUCHEM#: 498222

J1 ( ) N1(X) D1 ( ) C (:1)

J2( ) R2( ) D2( ) C (:1)

QC

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code--- -717
Instrument Code---255
Compound List---144
Surrogate Std---393
Internal Std---035 (added by GC/MS)

SAS: EPA#: SS 307 Dry Weight Factor 1.00

GC/MS ANALYSIS

Volumes mixed: BN 200 ul Acid ul

Internal Standard Volume Added 5 ul

Mixed Sample Volume Injected ul

Date of Sample Bottle Analyzed 5/21/85

DFTPP Filename RH85052122 Disk (2:7)

Standard Filename RH85052122 Disk (2:7)

Sample Filename GRU498222C22 Disk (2:7)

ANALYST(S): Injection 255 Work-up 255

GC/MS REVIEW

CONDITION CODE: EA

Entry Codes OK,EA,JA, ES,AL,AH,PL,PM,FL,JE
FH,NL,NH,YL,SL,SH,SH,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,D/
ED,1F,LA,DI,CO,RN,DW,MS

Disposition: (✓) Complete

( ) Reinjection required

( ) Reextraction required

( ) Dilute (:1)

( ) Reinject Neat

( ) Send to QA

Extraneous Peak Search Results:
# of Peaks Found: 22

Quality Assurance Notice(s):
Notices Required

COMMENTS: PK 20 S-22-23 LP

GC/MS Review JR Date 5/24/85 Auditor Date / /

REPORT INTEGRATION Total # of Injections: 3

Final Reportable Package(s): FRB-C22

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (UG/KG)	Detection Limit (UG/K
2	441	___	N-NITROSODIMETHYLAMINE (Q1#2) <62-			BDL	330.0
3	610	___	PHENOL (Q1#3) <108-95-2>	60.8		2000.0	330.0
4	473	___	ANILINE (Q1#4) <62-53-3>			BDL	330.0
5	411	___	BIS(2-CHLOROETHYL)ETHER (Q1#5) <11			BDL	330.0
6	601	___	2-CHLOROPHENOL (Q1#6) <95-57-8>	74.5		2500.0	330.0
7	421	___	1,3-DICHLOROBENZENE (Q1#7) <54,-73	~~29.1~~		~~970.0~~ BDL	330.0
8	422	___	1,4-DICHLOROBENZENE (Q1#8) <10e-46	29.4		980.0	330.0
9	474	___	BENZYL ALCOHOL (Q1#9) <100-51-6>			BDL	330.0
10	420	___	1,2-DICHLOROBENZENE (Q1#10) <9?-50			BDL	330.0
11	620	___	2-METHYLPHENOL (Q1#11) <95-48-7>			BDL	330.0
12	412	___	BIS(2-CHLOROISOPROPYL)ETHER (Q1#12			BDL	330.0
13	622	___	4-METHYLPHENOL (Q1#13) <106-44-5>			BDL	330.0
14	442	___	N-NITROSO-DI-N-PROPYLAMINE (Q1	36.7		1200.0	330.0
15	426	___	HEXACHLOROETHANE (Q1#15) <67-72-1>			BDL	330.0
16	440	___	NITROBENZENE (Q1#16) <98-95-3>			BDL	330.0
17	438	___	ISOPHORONE (Q2#2) <78-59-1>			BDL	330.0
18	606	___	2-NITROPHENOL (Q2#3) <88-75-5>			BDL	330.0
19	623	___	2,4-DIMETHYLPHENOL (Q2#4) <105-			BDL	330.0
20	625	___	BENZOIC ACID (Q2#5) <65-85-0>			BDL	1700.0
21	410	___	BIS(2-CHLOROETHOXY)METHANE (Q2#			BDL	330.0
22	602	___	2,4-DICHLOROPHENOL (Q2#7) <120-83-			BDL	330.0
23	426	___	1,2,4-TRICHLOROBENZENE (Q2#8)	32.6		1100.0	330.0
24	439	___	NAPHTHALENE (Q2#9) <91-20-3>			BDL	330.0
25	475	___	4-CHLOROANILINE (Q2#10) <106-47-8>			BDL	330.0
26	424	___	HEXACHLOROBUTADIENE (Q2#11) <87-			BDL	330.0
27	608	___	P-CHLORO-M-CRESOL (Q2#12) <59-50-	64.7		2200.0	330.0
28	427	___	2-METHYLNAPHTHALENE (Q2#13) <91-57			BDL	330.0
29	435	___	HEXACHLOROCYCLOPENTADIENE (Q3#2)			BDL	330.0
30	611	___	2,4,6-TRICHLOROPHENOL (Q3#3) <88-0			BDL	330.0
31	626	___	2,4,5-TRICHLOROPHENOL (Q3#4) <95-			BDL	1700.0
32	416	___	2-CHLORONAPHTHALENE (Q3#5) <91-58-			BDL	330.0
33	478	___	2-NITROANILINE (Q3#6) <88-74-4>			BDL	1700.0
34	425	___	DIMETHYL PHTHALATE (Q3#7) <131-			BDL	330.0
35	402	___	ACENAPHTHYLENE (Q3#8) <208-96-8>			BDL	330.0
36	479	___	3-NITROANILINE (Q3#9) <99-09-2			BDL	1700.0
37	401	___	ACENAPHTHENE (Q3#10) <83-32-9>	32.2		1100.0	330.0
38	605	___	2,4-DINITROPHENOL (Q3#11) <51-			BDL	1700.0
39	607	___	4-NITROPHENOL (Q3#12) <100-02-7>			BDL	1700.0
40	476	___	DIBENZOFURAN (Q3#13) <132-64-9>			BDL	330.0
41	427	___	2,4-DINITROTOLUENE (Q3#14) <121-14	22.3		740.0	330.0
42	428	___	2,6-DINITROTOLUENE (Q3#15) <606-20			BDL	330.0
43	424	___	DIETHYL PHTHALATE (Q3#16) <84-66-2			BDL	330.0
44	417	___	4-CHLOROPHENYL PHENYL ETHER (Q3#17			BDL	330.0
45	432	___	FLUORENE (Q3#18) <86-73-7>			BDL	330.0
46	480	___	4-NITROANILINE (Q3#19) <100-01-6>			BDL	1700.0
	614	___	4,6-DINITRO-2-METHYLPHENOL (Q4			BDL	1700.0
48	443	___	N-NITROSODIPHENYLAMINE (Q4#3) <86-			BDL	330.0
49	414	___	4-BROMOPHENYL PHENYL ETHER (Q4#4)			BDL	330.0
50	433	___	HEXACHLOROBENZENE (Q4#5) <118-74-1			BDL	330.0
51	609	___	PENTACHLOROPHENOL (Q4#6) <87-86-5>	48.7		J	1700.0
52	444	___	PHENANTHRENE (Q4#7) <85-01-8>			BDL	330.0
53	413	___	ANTHRACENE (Q4#8) <120-12-7>			BDL	330.0
54	426	___	DI-N-BUTYL PHTHALATE (Q4#9) <84-74	40.1		1300.0	330.0
55	431	___	FLUORANTHENE (Q4#10) <206-44-0>			BDL	330.0

CompuChem # 049822 File: GR049822C22 Compound List 144 Page
Semi-Volatile - Low Level Solid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detecti Limit (ug/k
60	404	___	BENZIDINE (Q5#2) <92-87-5>	~~45.3~~		~~BDL~~	1700. 0
61	445	___	PYRENE (Q5#3) <129-00-0>	49. 1		1600. 0	330 0
62	415	___	BUTYLBENZYL PHTHALATE (Q5#4) <85-6			BDL	330. 0
63	423	___	3,3'-DICHLOROBENZIDINE (Q5#5) <91-			BDL	670. 0
64	405	___	BENZO(A)ANTHRACENE (Q5#6) <56-55-3			BDL	330. 0
65	413	___	BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7)			BDL	330 0
66	418	___	CHRYSENE (Q5#8) <218-01-9>			BDL	330 0
68	429	___	DI-N-OCTYL PHTHALATE (Q6#2) <117-8			BDL	330. 0
69	407	___	BENZO(B)FLUORANTHENE (Q6#3) <205-9			BDL	330 0
70	409	___	BENZO(K)FLUORANTHENE (Q6#4) <207-0			BDL	330. 0
71	406	___	BENZO(A)PYRENE (Q6#5) <50-32-8			BDL	330. 0
72	437	___	INDENO(1,2,3-C,D)PYRENE (Q6#6) <19			BDL	330. 0
73	419	___	DIBENZO(A,H)ANTHRACENE (Q6#7) <53-			BDL	330 0
74	408	___	BENZO(G,H,I)PERYLENE (Q6#8) <191-2			BDL	330. 0

1R

Semi-Volatile - Low Level Solid

No	GC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P
75	##	2-FLUOROPHENOL (SS#1)	77.6	98.4	79.0	20-140	X
76	##	D5-PHENOL (SS#2)	66.8	98.4	68.0	20-140	X
77	##	D5-NITROBENZENE (SS#3)	36.1	49.2	73.0	20-140	X
78	##	2-FLUOROBIPHENYL (SS#4)	35.0	49.2	71.0	20-140	X
79	##	2,4,6-TRIBROMOPHENOL (SS#5)	64.3	98.4	67.0	10-140	X
80	##	D14-TERPHENYL (SS#6)	48.2	49.2	98.0	20-150	X
81	##	D10 PYRENE	47.5	49.2	97.0	33-128*	X

IR

* Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#52) D10-Phenanthrene > 40000 Cnts ___ ___

Correction Factor Calculation:

$$\frac{\text{Final Extract Volume (ml)}}{\text{Split Factor (*)}} \times \frac{30.0}{\text{Amount Extracted (g)}} \times \text{Dry Weight Factor} \times \text{GC/MS Dilution Factor} \times 33.3 =$$

$$\frac{0.6\text{ml}}{0.590} \times \frac{30.0\text{g}}{30.5\text{g}} \times \frac{1.0}{1} \times \frac{1}{1} \times 33.3 = 33.300$$

* Split Factor = (295/300)(6/10) if PEST/TCDD Volumes are indicated on log
= 1 if PEST/TCDD Volumes are NOT indicated on Extraction log

Quant Report amount spiked conversion factor:

$$\frac{1000\text{ ul}}{\text{Amount Surrogate Added (ul)}} \times \frac{\text{Final Extract Vol (ml)}}{\text{Split Factor}} \times \text{GCMS Dilution Factor} =$$

$$\frac{1000\text{ ul}}{500\text{ ul}} \times \frac{0.6\text{ml}}{0.590\text{ml}} \times \frac{1.0}{1} = 2.030$$

(4)

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: [illegible]

DATE ASSIGNED: 5-21-85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	FINAL EXTRACT VOL (MLS) ACID	FINAL EXTRACT VOL (MLS) PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMP	COMMENTS
11921A	717	Gen Test	NA	SS	49820	30.63		0.6		4			5/21	Rec 49:27 (F) 277/307
11922 A		↓	NA	SS	49827	30.5		0.6		4.0			5/21	Test. Back up OK
S1044				SS		30.0		0.6	0.6	4.0			5/21	
S1045	↓			SS		30.0		0.6	0.6	4.0			5/21	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	333					
	AMT.	0.5ml					
	LOT	14693					
SPIKE	NO.						
	AMT.		0.5ml	0.5ml			
	LOT		14655	14687			

MANUAL COUNTER: 276/310

FINAL VOLUME VERIFIED: L.R.P.

SUPERVISOR REVIEWED: [illegible]

EXTRACTS RECEIVED BY: BD 5/21/85

Nº 6187

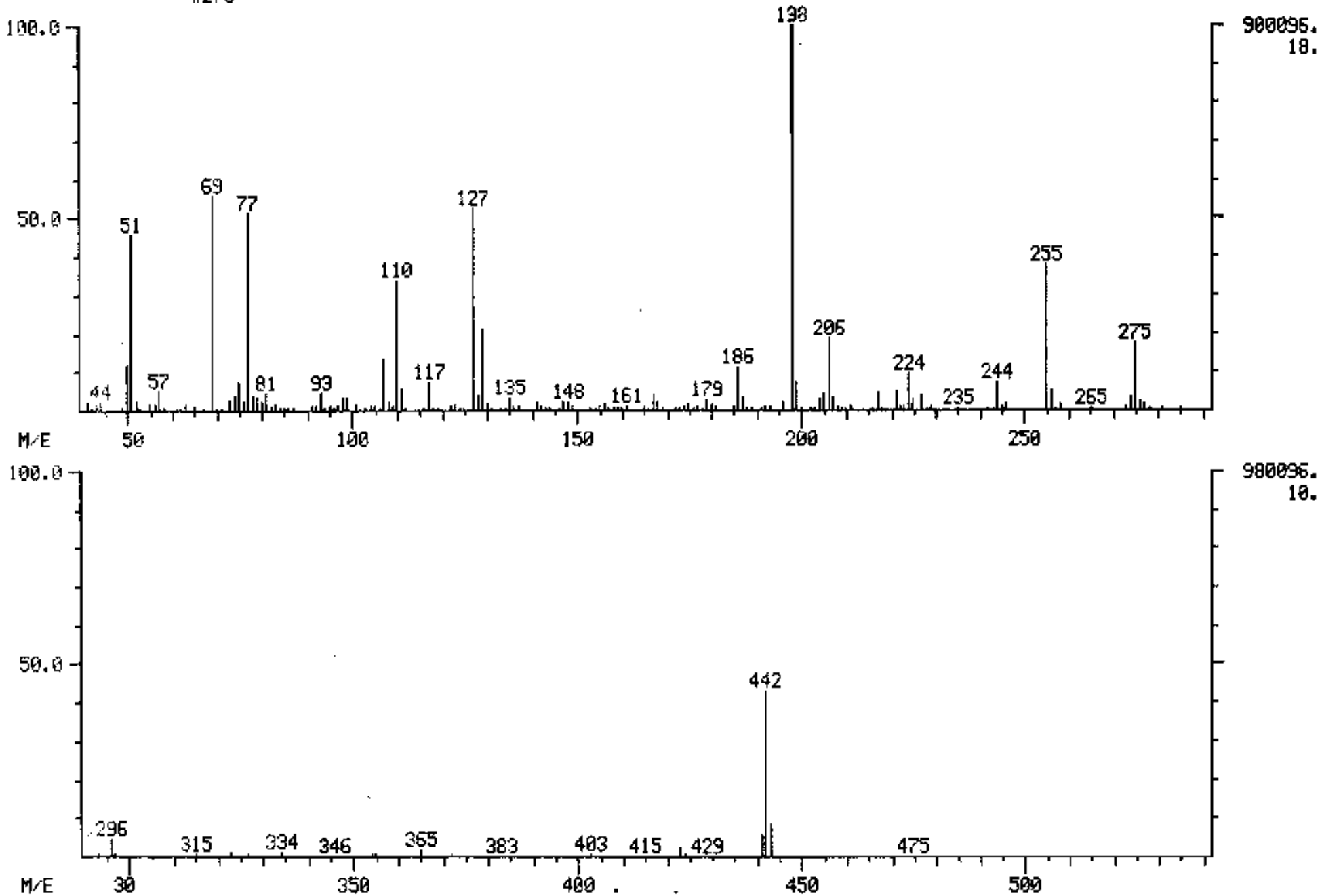
Surrogate Spikes 5/21

COMPUCHEM LABS

MASS SPECTRUM
05/19/85 7:14:00 + 4:12
SAMPLE: 1 UL 14658-#7050 DFTPP EXP 5-25-85
#278

DATA: DH850519A15 #278

BASE M/E: 198
RIC: 7167990.



COMPUCHEM LABS

MASS LIST DATA: DH850519A15 # 278 BASE M/E: 198
05/19/85 7:14:00 - 4:12 RIC: 7167990.
SAMPLE: 1 UL 14658-#7050 DFTPP EXP 5-25-85
#278

41 0.00 MINIMA MIN INTEN: 1880. MAX INTEN: 900096.
475 # 0 MAXIMA

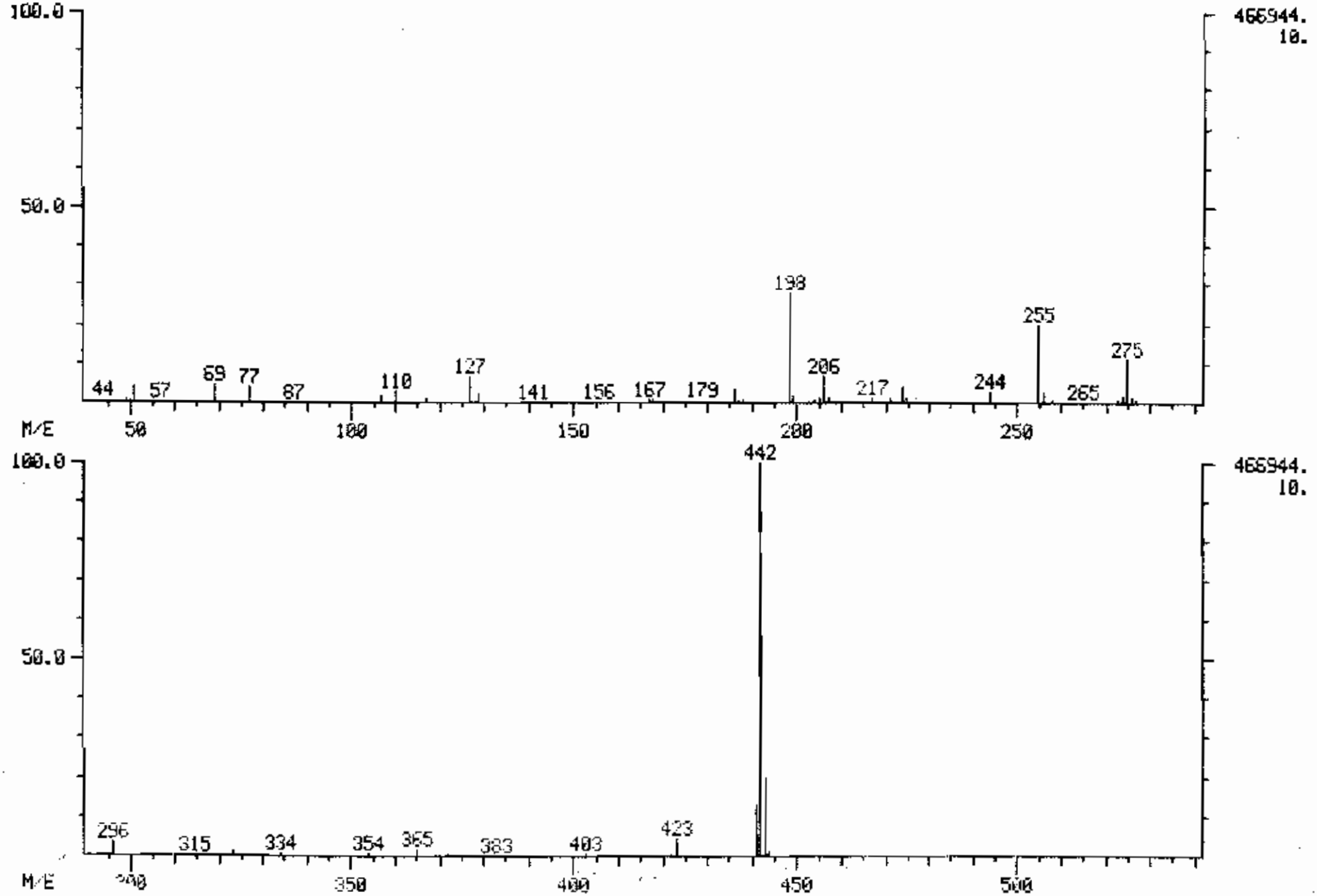
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	2.00	105	1.29	161	0.98	227	4.20
42	0.32	106	0.36	162	0.25	228	0.50
43	1.60	107	13.67	163	0.21	229	0.88
44	2.08	108	2.24	165	0.85	231	0.27
45	0.21	109	0.85	166	0.55	235	0.32
49	0.38	110	33.96	167	4.16	236	0.27
50	11.68	111	5.49	168	2.07	237	0.25
51	45.56	112	0.80	169	0.47	242	0.35
52	2.30	113	0.23	172	0.30	243	0.33
53	0.35	116	0.55	173	0.34	244	7.14
55	1.78	117	7.22	174	0.94	245	0.93
56	1.66	118	0.80	175	1.60	246	1.46
57	5.30	119	0.30	176	0.36	247	0.26
58	0.34	120	0.26	177	0.87	249	0.25
61	0.53	121	0.22	178	0.30	255	37.94
62	0.42	122	0.89	179	2.65	256	5.33
63	1.75	123	1.51	180	1.89	257	0.42
64	0.23	124	0.49	181	1.03	258	1.62
65	1.05	125	0.79	182	0.24	265	0.64
67	0.73	127	52.62	185	1.38	273	1.02
69	56.20	128	4.00	186	11.45	274	3.41
70	0.44	129	20.99	187	3.51	275	17.55
71	0.84	130	1.67	188	0.45	276	2.53
73	3.05	131	0.39	189	0.51	277	1.46
74	3.92	132	0.21	191	0.51	278	0.30
75	7.58	133	0.29	192	1.01	281	0.46
76	2.53	134	0.59	193	1.05	283	0.26
77	51.65	135	3.26	194	0.25	285	0.30
78	4.00	136	0.88	196	2.20	293	0.32
79	3.59	137	1.11	198	100.00	296	4.39
80	2.31	138	0.22	199	7.24	297	0.66
81	4.29	141	2.24	200	0.47	303	0.33
82	1.27	142	0.91	202	0.47	315	0.38
83	1.83	143	0.71	203	0.49	323	1.35
84	0.30	144	0.28	204	2.64	327	0.32
85	0.82	145	0.28	205	4.79	334	0.90
86	0.73	146	0.29	206	18.80	335	0.22
87	0.45	147	2.02	207	3.63	341	0.26
91	1.27	148	2.16	208	0.94	352	0.26
92	1.00	149	0.87	209	0.62	353	0.25
93	4.35	150	0.22	210	0.44	354	0.58
94	0.44	151	0.25	211	1.04	355	0.90
95	1.04	153	0.71	216	0.30	365	1.65
96	0.71	154	0.33	217	4.52	372	0.64
97	0.86	155	1.12	218	0.61	403	0.33
98	3.18	156	1.73	221	4.90	423	2.42
99	3.37	157	0.74	222	0.91	424	0.45
101	1.94	158	0.36	223	1.03	441	5.62
103	0.75	159	0.35	224	9.87	442	42.72
104	0.96	160	0.79	225	2.69	443	8.40

COMPUCHEM LABS

MASS SPECTRUM
05/21/85 17:02:00 + 4:33
SAMPLE: LUL 14650-7050

DATA: DH850521B22 #298

BASE M/E: 442
RIC: 1290230.



COMPUCHEM LABS

MASS LIST DATA: DH850521B22 # 298 BABE M/E: 198
05/21/85 17:02:00 + 4:33 RIC: 6307830.
SAMPLE: IUL 14658-7050
#298 TO #299 SUMMED

41 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 846848.
444 # 0 MAXIMA

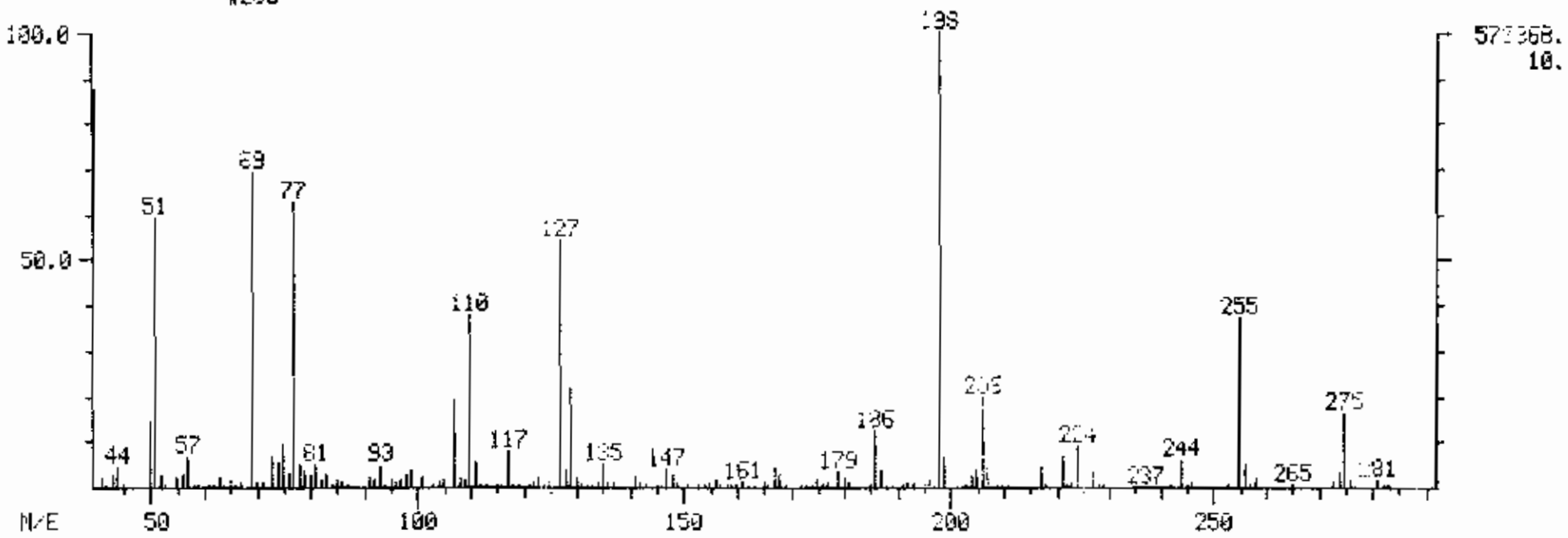
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	0.23	111	3.36	180	1.60	257	0.06
43	0.28	112	0.30	181	0.70	258	2.25
44	0.38	113	0.09	184	0.15	265	0.91
47	0.13	116	0.15	185	1.28	266	0.07
49	0.26	117	0.63	186	13.47	273	1.21
50	10.28	118	0.39	187	3.67	274	4.38
51	36.82	120	0.08	188	0.94	275	22.16
52	1.74	122	0.28	189	0.43	276	2.71
55	0.15	123	1.00	191	0.11	277	1.45
56	0.87	124	0.35	192	0.64	283	0.03
57	2.49	125	0.28	193	0.79	285	0.09
61	0.22	137	41.60	194	0.06	292	0.06
62	0.34	128	2.92	196	1.70	293	0.20
63	1.07	129	17.17	198	100.00	296	5.60
65	0.60	130	1.35	199	6.05	297	0.28
66	0.16	131	0.21	200	0.21	303	0.33
67	0.07	134	0.31	202	0.19	304	0.05
69	40.21	135	1.13	203	0.30	315	0.34
70	0.07	136	0.30	204	2.76	316	0.09
73	0.19	137	0.54	205	5.06	323	2.04
74	2.80	140	0.05	206	21.22	324	0.15
75	5.28	141	1.66	207	3.26	327	0.04
76	1.82	142	0.52	208	0.45	334	1.06
77	35.55	143	0.24	209	0.08	335	0.13
78	2.23	146	0.11	210	0.34	341	0.06
79	1.84	147	0.97	211	0.54	352	0.20
80	1.81	148	1.68	215	0.04	353	0.25
81	2.43	149	0.40	216	0.08	354	0.48
82	0.49	151	0.21	217	4.92	355	0.09
83	0.36	153	0.36	218	0.31	365	2.09
84	0.10	154	0.32	221	4.45	366	0.08
85	0.18	155	0.94	223	0.93	372	0.93
86	0.53	156	1.02	224	11.74	373	0.03
87	0.32	157	0.17	225	2.59	383	0.10
88	0.09	158	0.14	227	4.38	402	0.18
91	0.48	159	0.00	228	0.29	403	0.56
92	0.57	160	0.62	229	0.70	404	0.06
93	3.66	161	0.84	231	0.14	421	0.26
94	0.10	162	0.07	234	0.09	422	0.32
98	2.64	164	0.03	235	0.08	423	4.40
99	2.53	165	0.57	237	0.15	424	0.63
101	1.23	167	4.29	239	0.05	441	12.00
103	0.25	168	1.82	242	0.32	442	91.54
104	0.60	169	0.24	243	0.07	443	17.17
105	0.55	173	0.29	244	7.94	444	1.11
106	0.11	174	0.49	245	0.80		
107	14.25	175	1.45	246	1.35		
108	1.69	176	0.13	247	0.14		
109	0.03	177	0.40	255	48.61		
110	23.25	179	2.46	256	6.93		

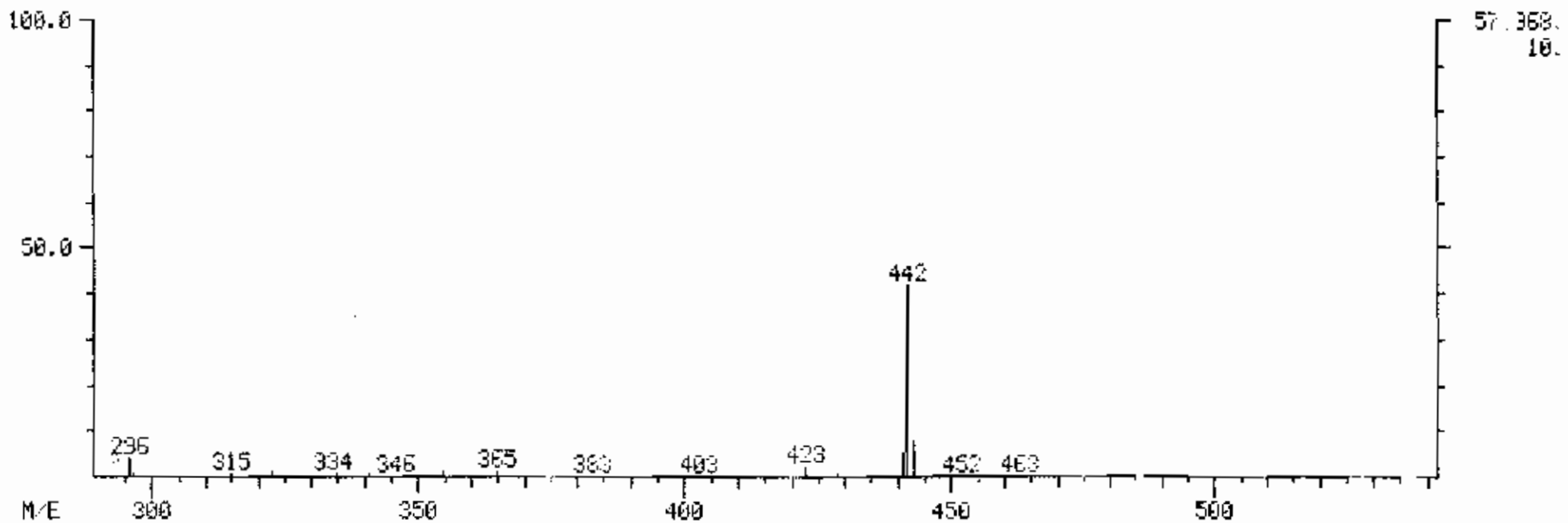
COMPUCHEM LABS

MASS SPECTRUM
05/18/85 7:39:00 + 4:13
SAMPLE: 1UL 1465897050(DFTPP#15
#280

DATA: DM850518A15 #280

BASE M/E: 198
RIC: 5021690.





COMPUCHEM LABS

MASS LIST DATA: DH85051BA15 # 280 BASE M/E: 198
05/18/85 7:39:00 + 4:13 RIC: 5021690.
SAMPLE: 1UL 1465897050(DFTPP#15
#280

41 0.00 MINIMA MIN INTEN: 1058. MAX INTEN: 570368.
463 # 0 MAXIMA

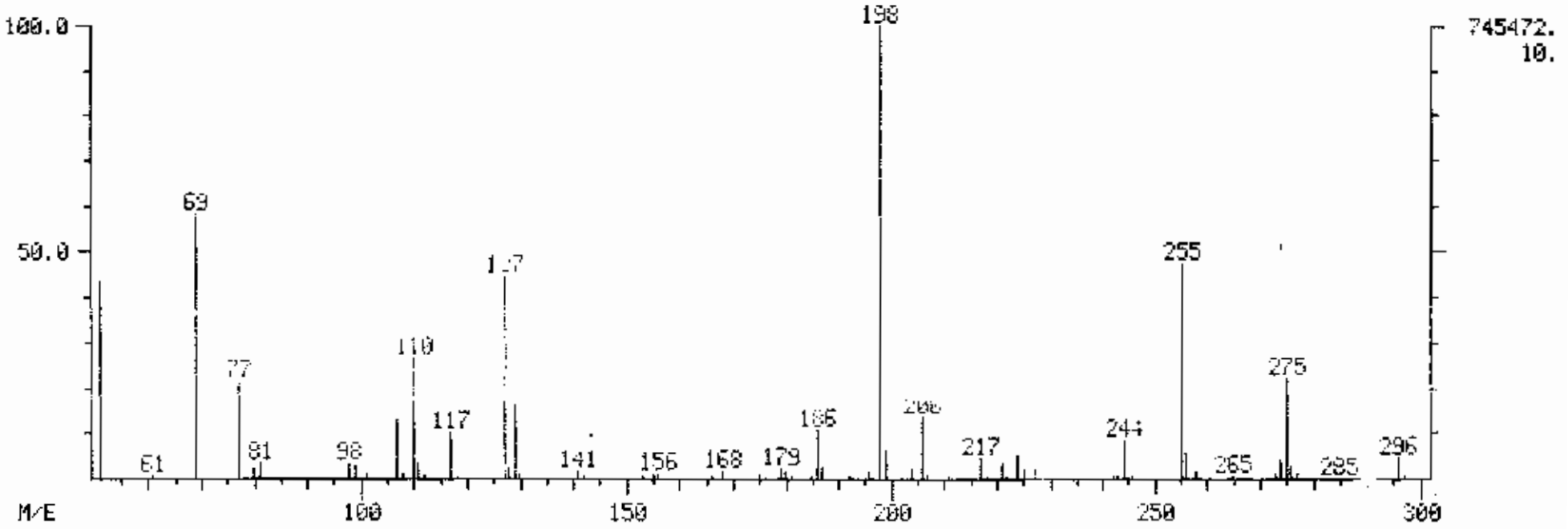
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	2.01	101	2.29	158	0.34	227	3.69
42	0.74	103	0.84	159	0.40	228	0.56
43	2.85	104	1.22	160	0.65	229	0.47
44	4.35	105	1.87	161	1.21	231	0.28
45	0.68	107	19.01	163	0.24	237	0.20
49	0.34	108	2.42	165	0.96	242	0.34
50	14.43	109	1.49	166	0.47	244	6.49
51	59.16	110	37.75	167	4.43	245	0.80
52	3.08	111	5.70	168	2.63	246	1.28
53	0.45	112	0.53	169	0.53	249	0.21
55	2.30	113	0.34	170	0.21	253	0.40
56	2.79	115	0.30	172	0.40	255	37.16
57	6.51	116	0.56	173	0.60	256	4.89
58	0.42	117	7.98	174	0.64	257	0.40
59	0.47	118	0.73	175	1.58	258	1.98
61	0.66	119	0.62	176	0.30	259	0.32
62	0.68	121	0.57	177	0.93	265	0.54
63	2.08	122	0.90	178	0.26	267	0.25
64	0.44	123	2.02	179	3.29	273	1.25
65	1.81	124	0.73	180	2.43	274	3.24
66	0.45	125	1.18	181	0.99	275	16.65
67	1.41	127	54.49	185	1.51	276	2.36
69	69.75	128	3.98	186	12.61	277	1.33
70	0.98	129	21.86	187	4.20	278	0.25
71	1.31	130	2.17	188	0.80	281	1.65
73	6.91	131	0.56	189	0.61	282	0.34
74	5.72	132	0.35	191	0.49	283	0.49
75	9.62	133	0.57	192	0.91	284	0.22
76	3.34	134	0.87	193	1.06	293	0.28
77	62.57	135	5.32	195	0.49	296	3.84
78	5.20	136	0.98	196	1.72	297	0.40
79	2.81	137	1.12	197	0.72	315	0.24
80	2.76	138	0.23	198	100.00	323	1.14
81	5.36	139	0.22	199	6.95	327	0.43
82	1.72	141	2.31	203	0.39	334	0.62
83	2.68	142	0.95	204	2.81	335	0.29
84	0.50	143	0.64	205	4.62	341	0.32
85	1.54	145	0.33	206	19.61	354	0.21
86	1.05	146	0.37	207	4.27	355	1.00
87	0.62	147	3.82	208	0.76	357	0.27
91	2.06	148	2.55	209	0.82	365	1.39
92	1.45	149	1.37	210	0.40	372	0.25
93	4.97	150	0.26	211	0.82	403	0.23
94	0.71	151	0.70	217	4.40	423	2.44
95	1.55	152	0.15	218	0.65	424	0.27
96	1.11	153	0.76	221	6.51	429	0.58
97	1.73	154	0.55	222	0.68	441	5.29 ✓
98	3.60	155	1.01	223	1.30	442	41.74 ✓
99	6.97	156	1.67	224	9.26	443	7.85
100	0.26	157	0.49	225	2.20	444	0.59

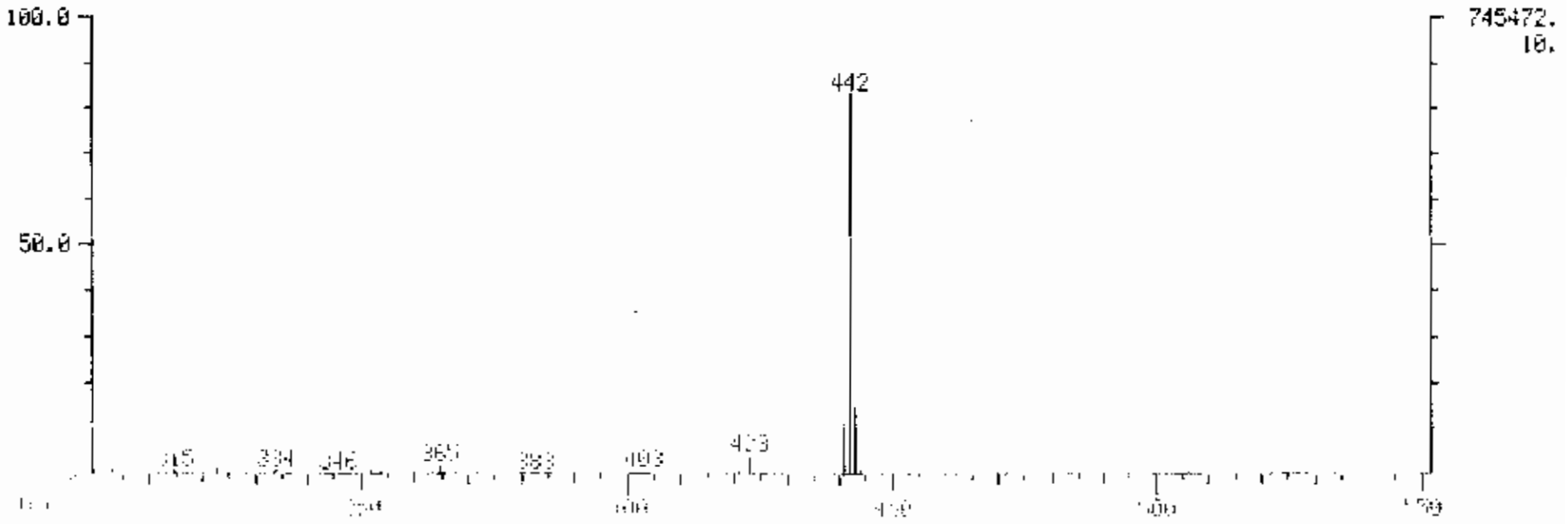
COMPUCHEM LABS

MASS SPECTRUM
05/24/85 10:19:00 + 5:16
SAMPLE: 1 UL DFTPP ON DWA#22 ID#7050
#344 TO #345 SUMMED - #362 TO #363 %1.00

DATA: DH050...4A22 #344

BASE M/E: 198
RIC: 4898810.



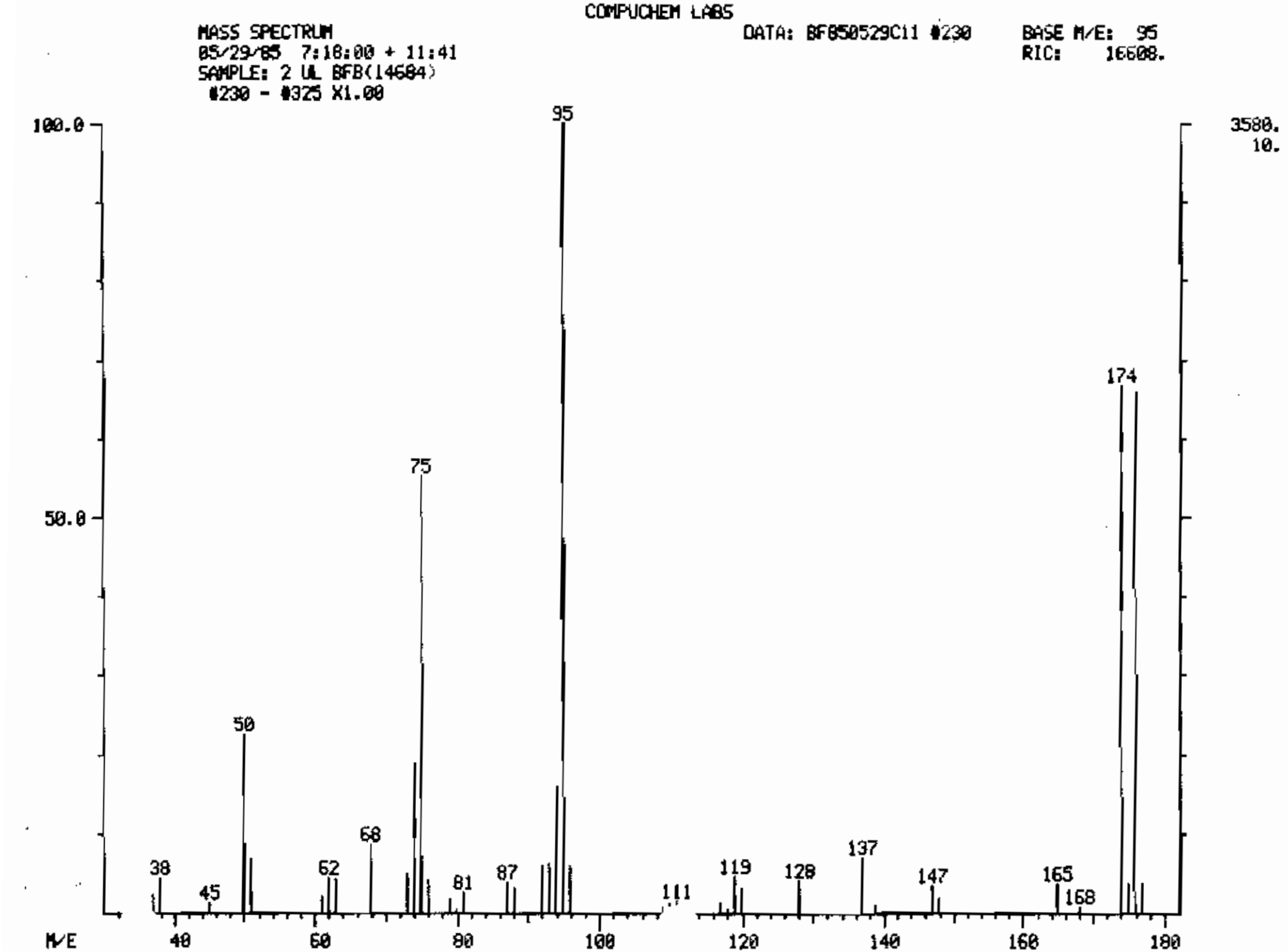


COMPUCHEM LABS

MASS LIST DATA: DH850524A22 # 344 BASE M/E: 198
05/24/85 10:19:00 + 5:16 RIC: 4898810.
SAMPLE: 1 UL DFTPP ON OWA#22 IO#7050
#344 TO #345 SUMMED - #362 TO #363 X1.00

51 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 745472.
444 # 0 MAXIMA

MASS	% RA	MASS	% RA	MASS	% RA
51	43.75	185	1.12	296	4.41
61	0.33	186	10.54	297	0.44
69	58.31	187	3.13	303	0.42
77	21.50	188	0.12	304	0.05
78	0.23	189	0.24	314	0.04
80	2.09	192	0.52	315	0.41
81	3.58	193	0.03	316	0.10
82	0.65	196	1.47	320	0.04
87	0.44	198	100.00	323	1.66
95	0.43	199	6.01	324	0.16
96	0.70	200	0.10	328	0.09
97	0.19	201	0.17	334	0.08
98	0.09	203	0.09	335	0.14
99	3.64	204	2.04	346	0.11
99	2.56	206	13.60	352	0.42
100	0.20	207	1.33	353	0.11
101	1.18	208	0.29	354	0.44
107	13.17	211	0.72	355	0.04
108	1.89	215	0.09	365	1.85
109	0.05	217	4.30	366	0.10
110	26.34	218	0.30	372	0.75
111	3.63	221	3.31	373	0.11
112	0.38	222	0.64	383	0.08
117	9.98	224	5.17	402	0.17
118	0.30	225	2.03	403	0.33
125	0.36	227	3.41	404	0.05
127	44.64	228	0.24	421	0.39
128	3.11	229	0.56	422	0.20
129	16.35	231	0.15	423	4.17
132	1.12	234	0.07	424	0.52
137	0.24	235	0.09	441	10.51
140	0.13	241	0.05	442	82.63
141	1.53	242	0.39	443	14.47
142	0.46	243	0.34	444	1.29
143	0.22	244	8.34		
146	0.13	245	0.78		
150	0.38	246	1.07		
154	0.05	247	0.09		
155	0.88	255	47.32		
156	1.27	256	5.76		
158	0.10	257	0.11		
164	0.04	258	1.81		
166	0.30	265	0.51		
168	1.50	273	1.00		
173	0.10	274	3.70		
174	0.38	275	22.08		
175	1.01	276	2.58		
176	2.40	277	1.26		
180	1.44	285	0.05		
181	0.61	293	0.27		


COMPUCHEM LABS
MASS SPECTRUM
05/29/85 7:18:00 + 11:41
SAMPLE: 2 UL BFB(14684)
#230 - #325 X1.00
DATA: BF850529C11 #230
BASE M/E: 95
RIC: 16608.
100.0
50.0
3580.
10.
M/E
40
60
80
100
120
140
160
180
95
174
75
50
68
38
45
62
81
87
111
119
128
137
147
165
168

COMPUCHEM LABS

MASS LIST DATA: BF850529C11 # 230 BASE M/E: 95
05/29/85 7:18:00 + 11:41 RIC: 16608.
SAMPLE: 2 UL 8FB(14684)
#230 - #325 X1.00

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 3580.
177 # 0 MAXIMA

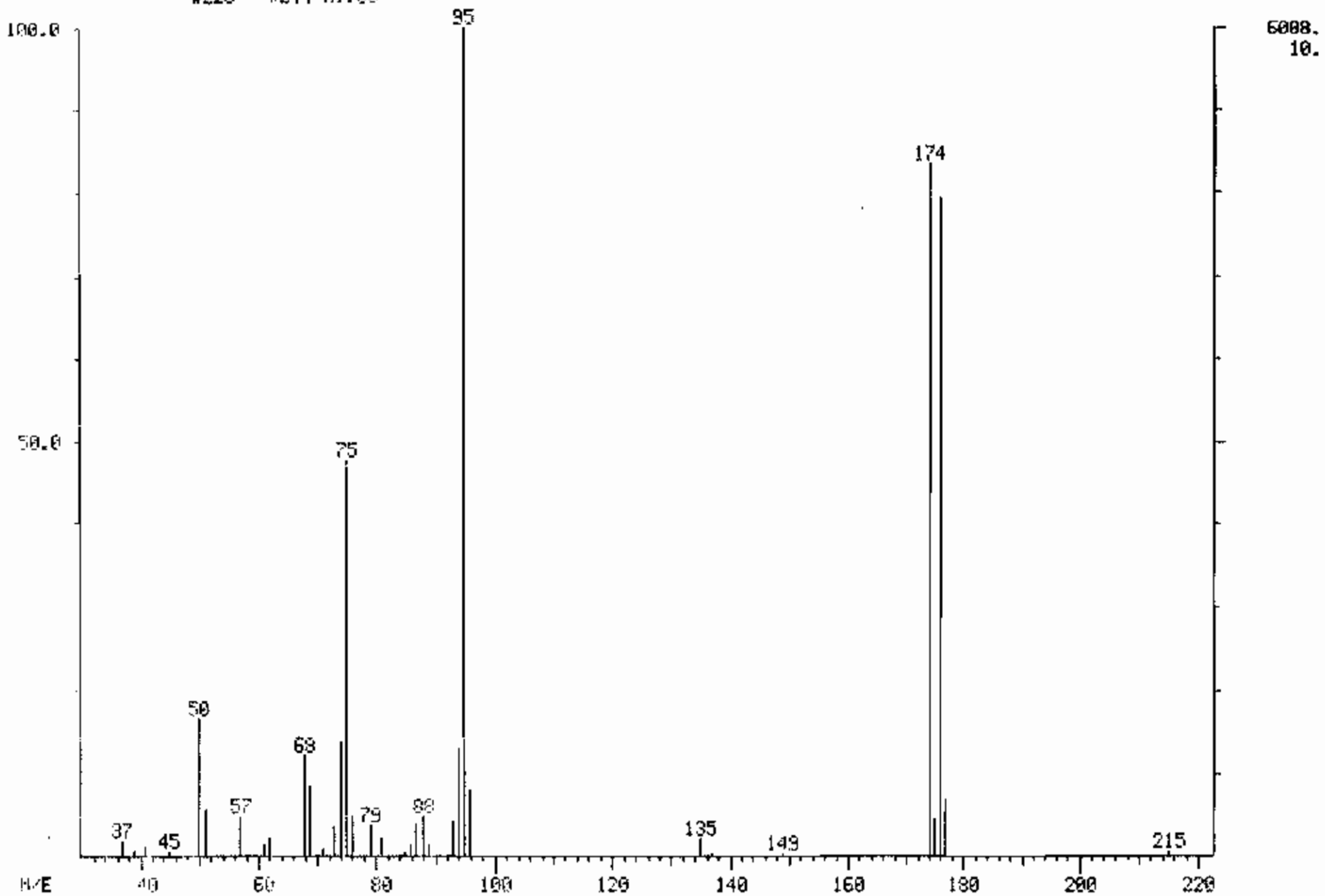
MASS	% RA
37	2.49
38	4.55
45	1.31
50	22.60
51	6.68
61	2.18
62	4.44
63	4.13
67	0.14
68	8.63
73	4.86
74	18.85
75	55.20
76	4.16
78	0.20
79	1.87
80	8.53
81	2.60
87	3.88
88	3.10
91	0.08
92	6.09
93	6.40
94	15.89
95	100.00
96	6.15
109	0.84
110	1.20
111	1.68
117	1.23
118	0.42
119	4.72
120	3.21
128	4.19
131	0.25
137	7.12
139	1.15
147	3.35
148	1.70
165	3.74
168	0.89
174	66.70
175	3.60
176	65.92
177	3.66

COMPUCHEM LABS

MASS SPECTRUM
05/07/85 9:02:00 + 11:26
SAMPLE: 3UL OF BFB#14541(7008)
#225 - 0244 X1.00

DATA: BF850507012 #225

BASE M/E: 95
RIC: 27104.



COMPUCHEM LABS

MASS LIST DATA: BF850507C12 # 225 BASE M/E: 95

SAMPLE: 2UL OF BFB#14541(7008)
325 - #244 X1.00

37 0.00 MINIMA MIN INTEN. 0. MAX INTEN. 0.00
215 # 0 MAXIMA
MASS % RA

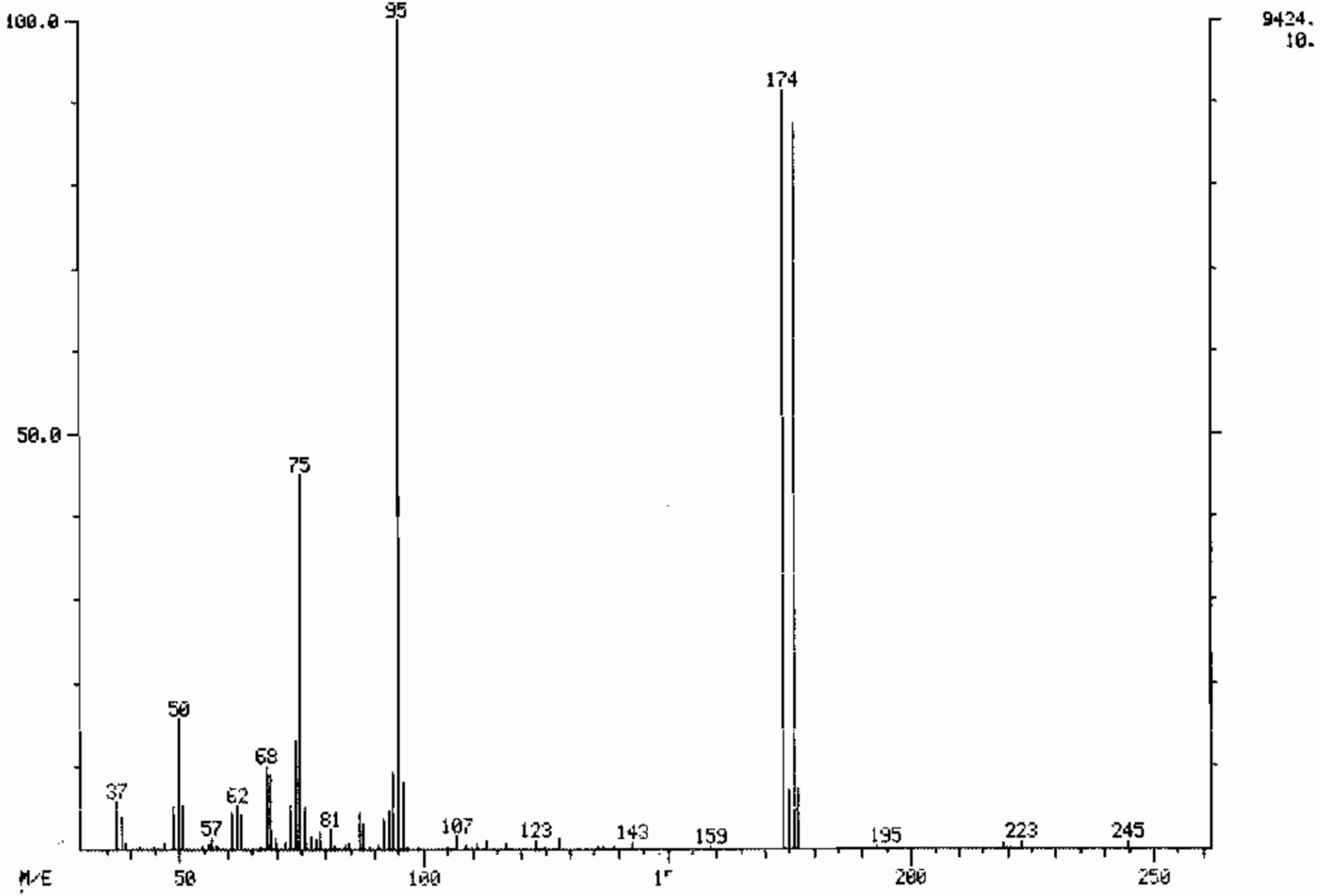
MASS	% RA
37	1.74
39	0.71
41	1.07
45	0.48
50	16.39
51	5.52
55	0.13
57	4.78
61	1.30
62	1.97
68	12.17
69	8.33
71	0.90
73	3.53
74	13.60
75	47.63
76	4.63
79	3.36
81	2.30
85	0.62
86	1.30
87	3.83
88	4.83
89	1.26
93	4.07
94	12.80
95	100.00
96	7.95
109	0.10
135	2.05
137	0.25
149	0.34
174	83.44
175	4.50
176	79.37
177	6.69
215	0.39

COMPUCHEM LABS

MASS SPECTRUM
05/08/85 5:05:00 + 11:23
SAMPLE: 2 UL BFB(14587)
#224 - #231 X1.00

DATA: BF850508C12 #224

BASE M/E: 95
RIC: 46720.



MASS LIST DATA: BF85050SC12 # 224 BASE M/E: 95
05/08/85 5:05:00 + 11:23 RIC: 46720.
SAMPLE: 2 UL BFB(14587)
#224 - #231 X1.00

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 9424.
253 # 0 MAXIMA

MASS	% RA	MASS	% RA
37	5.87	111	0.86
38	4.05	113	0.98
39	0.75	117	0.83
42	0.21	119	0.08
43	0.09	123	1.16
45	0.22	125	0.36
47	0.84	128	1.27
49	5.18	135	0.07
50	15.73	137	0.14
51	5.23	139	0.35
55	0.50	143	0.89
56	0.49	159	0.23
57	1.20	165	0.23
58	0.63	174	91.34
59	0.03	175	7.18
61	4.41	176	87.44
62	5.11	177	7.41
63	4.24	187	0.05
67	0.35	193	0.21
68	9.84	195	0.23
69	9.03	219	0.62
70	1.21	223	0.84
72	0.71	245	0.87
73	5.11	253	0.08
74	13.20		
75	44.91		
76	4.82		
77	1.58		
78	1.20		
79	2.12		
80	0.11		
81	2.32		
82	0.54		
84	0.60		
85	0.89		
87	4.36		
88	3.20		
89	0.31		
91	0.60		
92	3.59		
93	4.70		
94	9.33		
95	100.00		
96	8.20		
97	0.19		
99	0.30		
105	0.20		
107	1.53		
109	0.58		
110	0.34		

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CB850529A1
Sample matrix: Liquid
Data Release Authorized By: _____

Case:
QC Report No: _____
Contract No: 68-01-7017
Date Sample Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed:
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	3.8	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Environmental Protection Agency. CLP Sample Management Office.
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
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20.				
21.				
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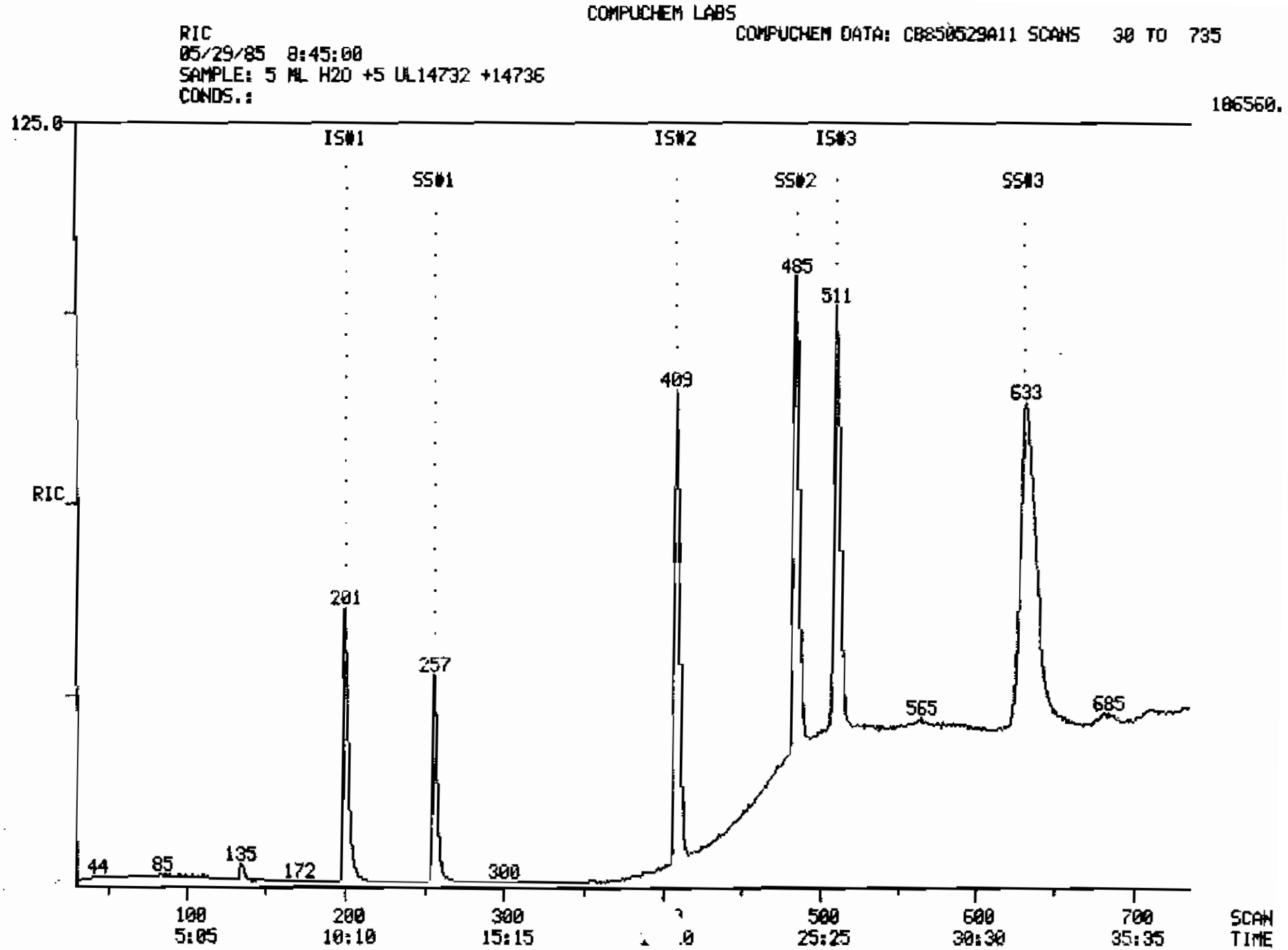
24.				
25.				
26.				
27.				
28.				
29.				
30.				


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CB850529A11 SCANS 30 TO 735
05/29/85 8:45:00
SAMPLE: 5 ML H2O +5 UL14732 +14736
CONDS.:
125.0
106560.
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
485
511
409
633
201
257
565
685
44
85
135
172
300
RIC
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

DATA FILE: CB850529A11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	28	42	6	1	58	E237S/E237U

42 COMPOUNDS PROCESSED, 6 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	E1	1	-200	201	201	.	1	992	.	128	200	-1	1
2	E2	1	-407	409	409	.	1	990	.	114	409	.	1
3	E3	1	-508	511	511	.	1	985	.	117	511	.	1
4	E1	2	-39	39	.	.	.	.	.	50	.	.	.
5	E1	3	-59	59	.	.	.	.	.	94	.	.	.
6	E1	4	-75	75	.	.	.	.	.	62	.	.	.
7	E1	5	-95	95	.	.	.	.	.	64	.	.	.
8	E1	6	-138	139	.	.	.	.	.	84	.	.	.
9	E1	7	-150	151	.	.	.	.	.	43	.	.	.
10	E1	8	-169	170	.	.	.	.	.	76	.	.	.
11	E1	9	-192	193	.	.	.	.	.	96	.	.	.
12	E1	10	-218	219	.	.	.	.	.	63	.	.	.
13	E1	11	-232	233	.	.	.	.	.	96	.	.	.
14	E1	12	-242	243	.	.	.	.	.	83	.	.	.
15	E1	13	-257	258	.	.	.	.	.	62	.	.	.
16	E2	2	-256	257	.	.	.	.	.	72	.	.	.
17	E2	3	-284	286	.	.	.	.	.	97	.	.	.
18	E2	4	-292	294	.	.	.	.	.	117	.	.	.
19	E2	5	-294	296	.	.	.	.	.	43	.	.	.
20	E2	6	-300	302	.	.	.	.	.	83	.	.	.
21	E2	7	-329	331	.	.	.	.	.	63	.	.	.
22	E2	8	-334	336	.	.	.	.	.	75	.	.	.
23	E2	9	-345	347	.	.	.	.	.	130	.	.	.
24	E2	10	-356	358	.	.	.	.	.	129	.	.	.
25	E2	11	-358	360	.	.	.	.	.	97	.	.	.
26	E2	12	-356	358	.	.	.	.	.	78	.	.	.
27	E2	13	-359	361	.	.	.	.	.	75	.	.	.
28	E2	14	-381	383	.	.	.	.	.	63	.	.	.
29	E2	15	-410	413	.	.	.	.	.	173	.	.	.
30	E3	2	-422	425	.	.	.	.	.	43	.	.	.
31	E3	3	-453	456	.	.	.	.	.	43	.	.	.
32	E3	4	-458	461	.	.	.	.	.	164	.	.	.
33	E3	5	-456	459	.	.	.	.	.	83	.	.	.
34	E3	6	-486	489	.	.	.	.	.	92	489	.	1
35	E3	7	-511	514	.	.	.	.	.	112	515	.	1
36	E3	8	-561	565	.	.	.	.	.	106	565	.	2
37	E3	9	-669	674	.	.	.	.	.	104	671	.	2
38	E3	10	-677	682	.	.	.	.	.	106	684	.	2
39	E3	11	-705	710	.	.	.	.	.	106	711	.	3
40	E4	2	-255	256	257	1	1	966	.	65	257	.	1
41	E4	3	-627	631	632	1	1	976	.	95	632	.	1
42	E4	4	-482	485	485	.	1	988	.	98	485	.	1

QUANTITATION REPORT FILE: CB850529A11

DATA: CB850529A11.TI
05/29/85 8:45:00
SAMPLE: 5 ML H20 +5 UL14732 +14736
COMMENTS:
SUBMITTED BY: 11 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	218 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENIENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	200	10:10	1	1.000	A BV	38736.	50.000 UG/L	16.77
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	135	6:52	1	0.675	A BB	4099.	3.851	UG/L	1.29
7	43	NOT FOUND								
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	409	20:47	14	1.000	A BB	166053.	50.000	UG/L	16.77
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	511	25:59	29	1.000	A BB	136330.	50.000	UG/L	16.77
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	489	24:51	29	0.957	A BB	2357.	1.189	UG/L	0.40
35	112	515	26:11	29	1.008	A VB	1446.	0.532	UG/L	0.18
36	106	565	28:43	29	1.106	A BB	1238.	0.989	UG/L	0.33
37	104	671	34:07	29	1.313	A*BV	2289.	0.742	UG/L	0.25
38	106	684	34:46	29	1.339	A*BB	4333.	2.326	UG/L	0.78 BDL
39	106	711	36:09	29	1.391	A*BV	3398.	2.063	UG/L	0.69
40	65	257	13:04	1	1.285	A BB	78693.	45.060	UG/L	15.11
41	95	632	32:08	29	1.237	A BB	119990.	46.776	UG/L	15.69
42	98	485	24:39	1	2.425	A BB	154919.	44.718	UG/L	15.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:10	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:59		10.000			50.00		1.328	
3	3:00		10.000			50.00		1.773	
4	3:49		10.000			50.00		1.230	
5	4:50		10.000			50.00		0.672	
6	7:01	0.98	5.000	0.13	3.85	50.00	0.106	1.374	0.08
7	7:37		10.000			50.00		0.286	
8	8:35		5.000			50.00		3.829	
9	9:46		5.000			50.00		1.245	
10	11:05		5.000			50.00		2.250	
11	11:48		5.000			50.00		1.287	
12	12:18		5.000			50.00		3.301	
13	13:04		5.000			50.00		2.193	
14	20:41	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	13:01		10.000			50.00		0.027	
16	14:26		5.000			50.00		0.621	
17	14:51		5.000			50.00		0.619	
18	14:57		10.000			50.00		0.536	
19	15:15		5.000			50.00		0.699	
20	16:43		5.000			50.00		0.322	
21	16:59		5.000			50.00		0.215	
22	17:32		5.000			50.00		0.419	
23	18:06		5.000			50.00		0.574	
24	18:12		5.000			50.00		0.352	
25	18:06		5.000			50.00		0.872	
26	18:15		5.000			50.00		0.677	
27	19:22		10.000			50.00		0.165	
28	20:50		5.000			50.00		0.308	
29	25:49	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:27		10.000			50.00		0.268	
31	23:02		10.000			50.00		0.165	
32	23:17		5.000			50.00		0.440	
33	23:11		5.000			50.00		0.439	
34	24:42	1.01	5.000	0.19	1.19	50.00	0.017	0.727	0.02
35	25:59	1.01	5.000	0.20	0.53	50.00	0.011	0.997	0.01
36	28:31	1.01	5.000	0.22	0.99	50.00	0.009	0.459	0.02
37	34:00	1.00	5.000	0.26	0.74	50.00	0.017	1.131	0.01
38	34:25	1.01	5.000	0.27	2.33	50.00	0.032	0.683	0.05
39	35:50	1.01	5.000	0.28	2.06	100.00	0.012	0.604	0.02
40	12:58	1.01	10.000	0.13	45.06	50.00	2.032	2.254	0.90
41	31:52	1.01	10.000	0.12	46.78	50.00	0.880	0.941	0.94
42	24:30	1.01	10.000	0.24	44.72	50.00	3.999	4.472	0.89

METHOD: E237 FILENAME: CB850529A11 DATE: 05/29/85
SHIFT STD: CT850523A11 TIME: 8:45

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
* BROMOCHLOROMETHANE (IS)	38735.	61084.	-36.	PASS
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	166052.	250241.	-33.	PASS
* D5 CHLOROBENZENE(INTERNAL STANDARD)	136330.	207162.	-33.	PASS

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	3.8		J	5.0
7	252	___	ACETONE (2-PROPANONE)			BDL	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	25T	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	20B	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE	2.9		BDL	5.0
39	240/241	___	O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

ND	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	F	F
40		D4-1,2-DICHLOROETHANE	45.0	50.0	90.0	77-120	X	
41		BROMOFLUORDBENZENE	46.8	50.0	94.0	85-121	X	
42		DB-TOLUENE	44.7	50.0	89.0	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts /__ ___

Correction Factor Calculation:

$$\frac{5000 \text{ ul}}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000 \text{ ul}}{5000. \text{ (ul)}} = 1.000$$

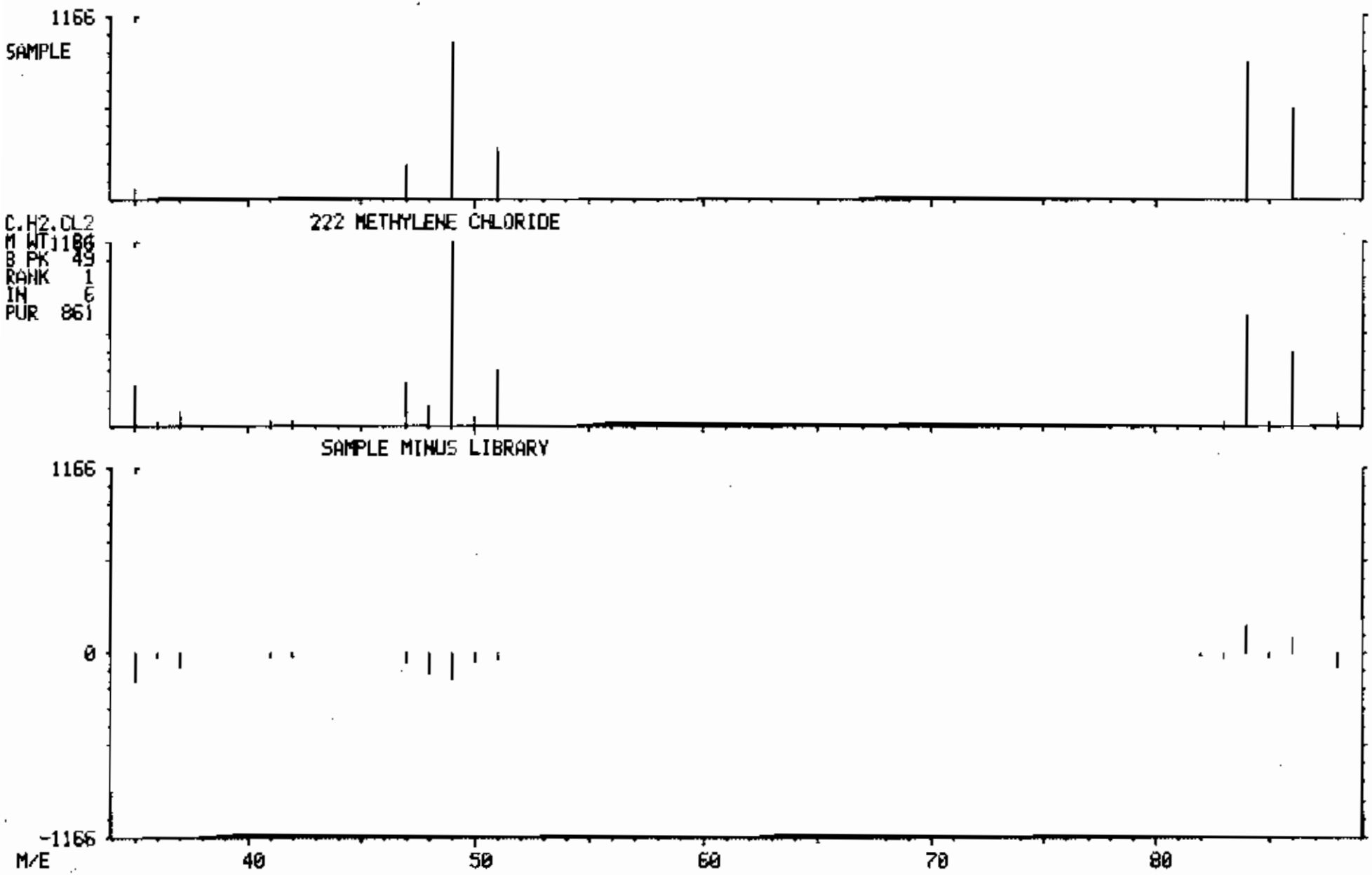
Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

COMPUCHEM LABS

LIBRARY SEARCH
05/29/85 8:45:00 + 6:52
SAMPLE: 5 ML H2O +5 UL14732 +14736
ENHANCED (S 15B 2N 0T)

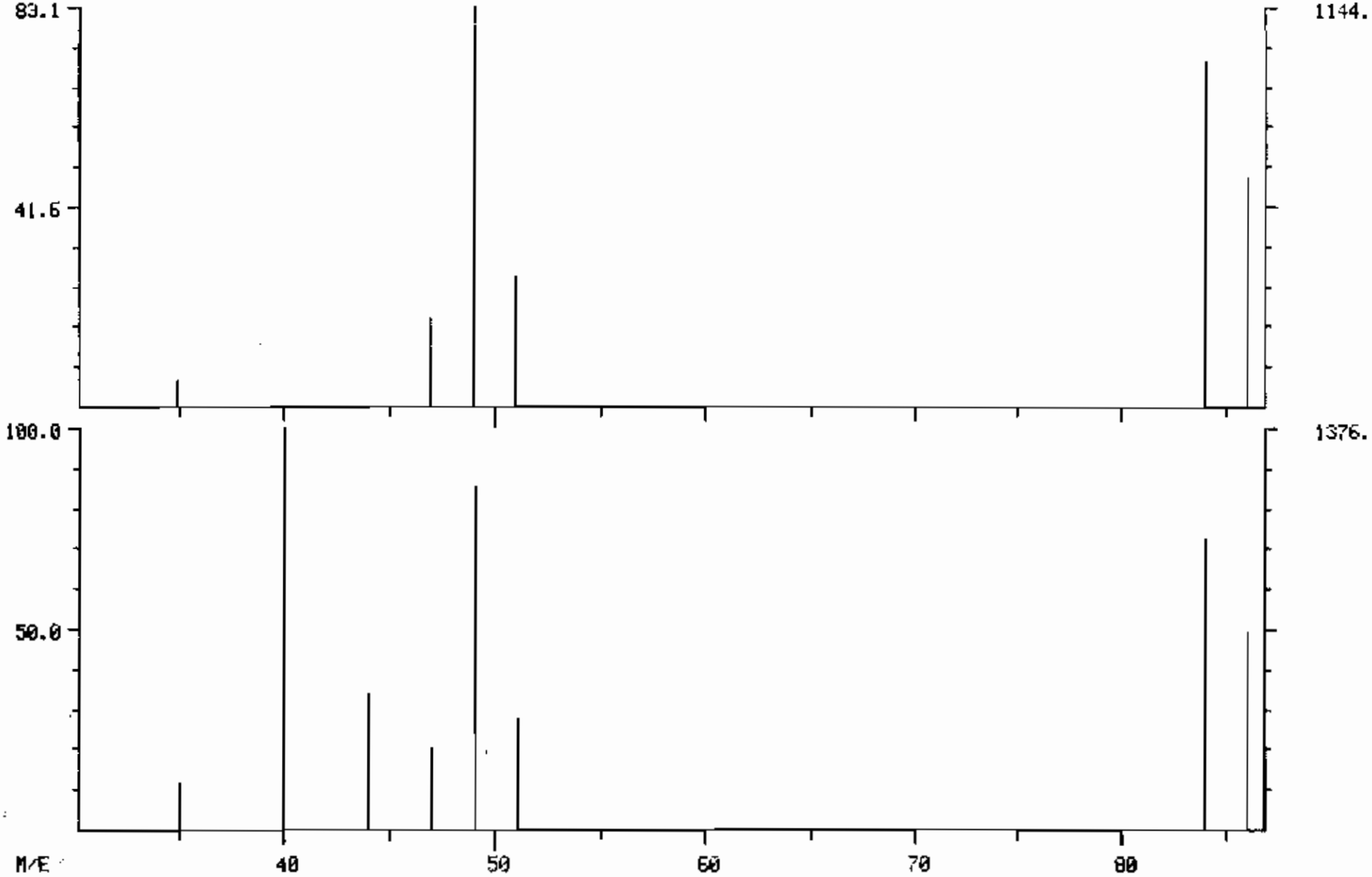
DATA: CB850529A11 # 135
BASE M/E: 49
RIC: 3487.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/29/85 8:45:00 + 6:52
SAMPLE: 5 ML H2O +5 UL14732 +14736
ENHANCED (S 15B 2N)

DATA: CB850529A11 #135 BASE M/E: 49/ 40
RIC: 3487./ 5527.



Environmental Protection Agency, CLP Sample Management Office
P. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: 6CB50508C12
Sample matrix: solid
Data Release
Authorized By: _____

Case:
QC Report No: _____
Contract No: 68-01-7017
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed: 5-8-85
Conc/Dil Factor: 1.00
Percent moisture: 0%
Percent moisture (decanted):
pH:

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.6	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	6.0	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Environmental Protection Agency - CLP Sample Management Office
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.				
4.				
5.				
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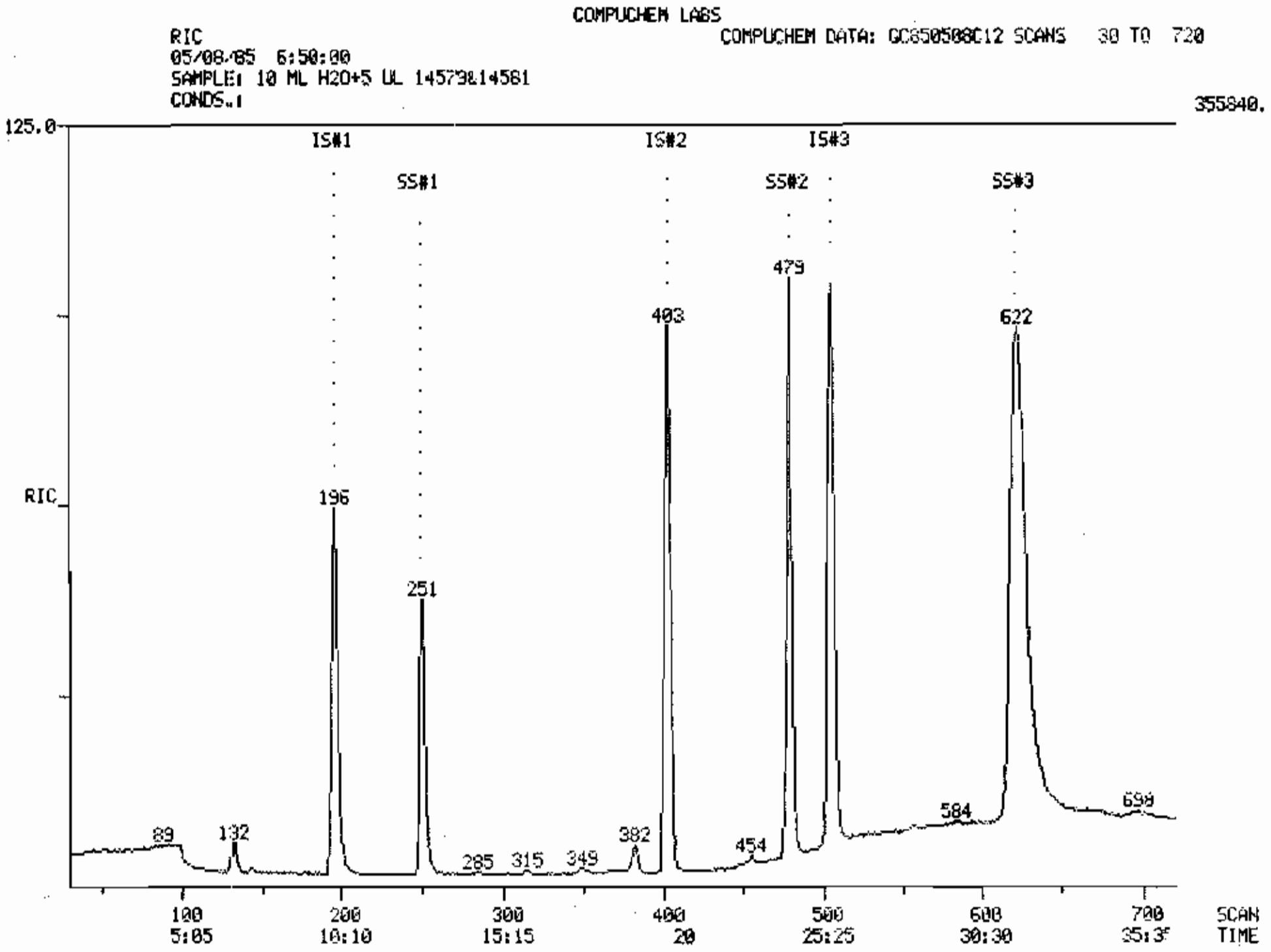
28.				
29.				
30.				


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GC850508C12 SCANS 30 TO 720
05/08/85 6:50:00
SAMPLE: 10 ML H2O+5 UL 14573&14581
CONDS.:
355840.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
403
622
RIC
196
251
89
132
285
315
349
382
454
584
699
100
5:05
200
10:10
300
15:15
400
20
500
25:25
600
30:30
700
35:3
SCAN
TIME

PROCEDURE: RK
DATA FILE: GC850508C12
REFERENCE: E238
METHOD: E238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	7	1	58	E238S/E238U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND			SEARCH					FIT		RAT	CHRO		
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	R/E	TOP	DELTA	PEAKS
1	E5	1	-197	196	196	.	1	956	.	125	196	.	1
2	E6	1	-403	403	403	.	1	994	.	114	403	.	1
3	E7	1	-505	505	505	.	1	976	.	117	505	.	1
4	E5	2	-36	36	.	.	.	.	.	50	.	.	.
5	E5	3	-55	55	.	.	.	.	.	94	.	.	.
6	E5	4	-70	70	.	.	.	.	.	62	.	.	.
7	E5	5	-90	90	.	.	.	.	.	64	.	.	.
8	E5	6	-133	133	133	.	1	950	.	84	132	-1	1
9	E5	7	-144	144	.	.	.	.	.	43	144	.	1
10	E5	8	-164	164	.	.	.	.	.	76	164	.	1
11	E5	9	-187	187	.	.	.	.	.	96	.	.	.
12	E5	10	-213	213	.	.	.	.	.	63	.	.	.
13	E5	11	-227	227	.	.	.	.	.	96	.	.	.
14	E5	12	-238	238	.	.	.	.	.	83	.	.	.
15	E5	13	-253	253	.	.	.	.	.	62	.	.	.
16	E6	2	-251	251	.	.	.	.	.	72	251	.	1
17	E6	3	-280	280	.	.	.	.	.	97	.	.	.
18	E6	4	-288	288	.	.	.	.	.	117	.	.	.
19	E6	5	-289	289	.	.	.	.	.	43	.	.	.
20	E6	6	-297	297	.	.	.	.	.	83	.	.	.
21	E6	7	-325	325	.	.	.	.	.	63	.	.	.
22	E6	8	-330	330	.	.	.	.	.	75	.	.	.
23	E6	9	-341	341	.	.	.	.	.	130	.	.	.
24	E6	10	-353	353	.	.	.	.	.	129	.	.	.
25	E6	11	-355	355	.	.	.	.	.	97	.	.	.
26	E6	12	-352	352	.	.	.	.	.	78	353	.	1
27	E6	13	-356	356	.	.	.	.	.	75	.	.	.
28	E6	14	-377	377	.	.	.	.	.	63	.	.	.
29	E6	15	-407	407	.	.	.	.	.	173	408	.	1
30	E7	2	-418	418	.	.	.	.	.	43	418	.	2
31	E7	3	-450	450	.	.	.	.	.	43	450	.	2
32	E7	4	-455	455	.	.	.	.	.	164	.	.	.
33	E7	5	-454	454	.	.	.	.	.	83	454	.	2
34	E7	6	-483	483	.	.	.	.	.	92	482	.	1
35	E7	7	-508	508	.	.	.	.	.	112	508	.	1
36	E7	8	-557	557	.	.	.	.	.	106	556	.	2
37	E7	9	-661	661	.	.	.	.	.	104	661	.	3
38	E7	10	-670	670	.	.	.	.	.	106	669	.	2
39	E7	11	-670	670	.	.	.	.	.	106	669	.	2
40	E8	2	-251	251	250	-1	1	985	.	65	250	.	1
41	E8	3	-622	622	621	-1	1	988	.	95	621	.	1
42	E8	4	-479	479	479	.	1	991	.	98	478	-1	1

DATA: GC850508C12.TI
05/08/85 6:50:00
SAMPLE: 10 ML H20+5 UL 14579&14581
CONDS. :
SUBMITTED BY: 12 ANALYST: 812

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENIENE
42	# DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	196	9:58	1	1.000	A BV	116525.	50.000 UG/KG	15.47
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	132	6:43	1	0.6T3	A BB	140T9.	4.685	UG/KG	1.43
7	43	144	T:19	1	0.T35	A BV	6869.	6.081	UG/KG	1.88
8	T6	164	8:20	1	0.83T	A BB	824.	0.108	UG/KG	0.03
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	403	20:29	14	1.000	A BB	425T88.	50.000	UG/KG	15.47
15	72	251	12:46	14	0.623	A BB	2628.	5.215	UG/KG	1.61
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	353	17:57	14	0.876	A BV	4196.	0.692	UG/KG	0.21
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	408	20:44	14	1.012	A BB	350.	0.059	UG/KG	0.02
29	117	505	25:40	29	1.000	A BB	403579.	50.000	UG/KG	15.47
30	43	418	21:15	29	0.828	A*VV	3186.	0.693	UG/KG	0.21
31	43	450	22:52	29	0.891	A*VV	2012.	0.551	UG/KG	0.17
2	164	NOT FOUND								
33	83	454	23:05	29	0.899	A*BV	1331.	0.248	UG/KG	0.08
34	92	482	24:30	29	0.954	A BB	1055.	0.223	UG/KG	0.07
35	112	508	25:49	29	1.006	A BB	807.	0.107	UG/KG	0.03
36	106	556	28:16	29	1.101	A*BB	360.	0.089	UG/KG	0.03
37	104	661	33:36	29	1.309	A*BV	2184.	0.215	UG/KG	0.07
38	106	669	34:00	29	1.325	A*BB	971.	0.168	UG/KG	0.05
39	106	669	34:00	29	1.325	A*BB	971.	0.335	UG/KG	0.10
40	65	250	12:42	1	1.276	A BV	200269.	51.058	UG/KG	15.80
41	95	621	31:34	29	1.230	A BB	331128.	51.008	UG/KG	15.79
42	98	478	24:18	1	2.439	A BV	401670.	51.603	UG/KG	15.97

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50		10.000			50.00		1.072	
3	2:48		10.000			50.00		1.438	
4	3:33		10.000			50.00		1.232	
5	4:34		10.000			50.00		0.618	
6	6:46	0.99	5.000	0.13	4.69	50.00	0.121	1.289	0.09
7	7:19	1.00	10.000	0.07	6.08	50.00	0.059	0.485	0.12
8	8:20	1.00	5.000	0.17	0.11	50.00	0.007	3.281	0.00
9	9:30		5.000			50.00		1.104	
10	10:50		5.000			50.00		1.976	
11	11:32		5.000			50.00		1.157	
12	12:06		5.000			50.00		2.611	
3	12:52		5.000			50.00		1.771	
4	20:29	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	5.21	50.00	0.006	0.059	0.10
16	14:14		5.000			50.00		0.595	
17	14:38		5.000			50.00		0.642	
18	14:41		10.000			50.00		0.491	
19	15:06		5.000			50.00		0.643	
20	16:31		5.000			50.00		0.347	
21	16:46		5.000			50.00		0.240	
22	17:20		5.000			50.00		0.512	
23	17:57		5.000			50.00		0.595	
24	18:03		5.000			50.00		0.330	
25	17:54	1.00	5.000	0.18	0.69	50.00	0.010	0.712	0.01
26	18:06		5.000			50.00		0.684	
27	19:10		10.000			50.00		0.232	
28	20:41	1.00	5.000	0.20	0.06	50.00	0.001	0.696	0.00
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.00	10.000	0.08	0.69	50.00	0.008	0.569	0.01
31	22:52	1.00	10.000	0.09	0.55	50.00	0.005	0.452	0.01
32	23:08		5.000			50.00		0.619	
33	23:05	1.00	5.000	0.18	0.25	50.00	0.003	0.666	0.00
34	24:33	1.00	5.000	0.19	0.22	50.00	0.003	0.587	0.00
35	25:49	1.00	5.000	0.20	0.11	50.00	0.002	0.931	0.00
36	28:19	1.00	5.000	0.22	0.09	50.00	0.001	0.501	0.00
37	33:36	1.00	5.000	0.26	0.22	50.00	0.005	1.257	0.00
38	34:03	1.00	5.000	0.26	0.17	50.00	0.002	0.717	0.00
39	34:03	1.00	5.000	0.26	0.34	100.00	0.001	0.359	0.00
40	12:46	1.00	10.000	0.13	51.06	50.00	1.719	1.683	1.02
41	31:37	1.00	10.000	0.12	51.01	50.00	0.820	0.804	1.02
42	24:21	1.00	10.000	0.24	51.60	50.00	3.447	3.340	1.03

METHOD: E238 FILENAME: GC850508C12 DATE: 05/08/85
SHIFT STD: CS850508C12 TIME: 6:50

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
* BROMOCHLOROMETHANE (IS)	116524.	104753.	11.	PASS
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	423787.	387406.	10.	PASS
* D5 CHLOROBENZENE(INTERNAL STANDARD)	403379.	360445.	12.	PASS

Volatile - Low Level Solid

J	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(#) (ug/kg)	Detection Limit (ug/kg)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.6		J	5.0
7	232	___	ACETONE (2-PROPANONE)	6.0		J	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLORDETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE	~~5.2~~		BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENIENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/241	___	O- & P-XYLENE			BDL	5.0

Volatile - Low Level Solid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		04-1,2-DICHLOROETHANE	51.0	50.0	102.0	50-160	X	
41		BROMOFLUOROBENZENE	51.0	50.0	102.0	50-160	X	
42		OB-TOLUENE	51.6	50.0	103.0	50-160	X	

* Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	✓	

Correction Factor Calculation:

$$\frac{5.0\ \text{g}}{\text{Wet Weight of Sample (g)}} \times \text{GC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ \text{g}}{5.0\ \text{(g)}} \times \frac{1.0}{1.0} \times \frac{1.0}{1.0} = 1.000$$

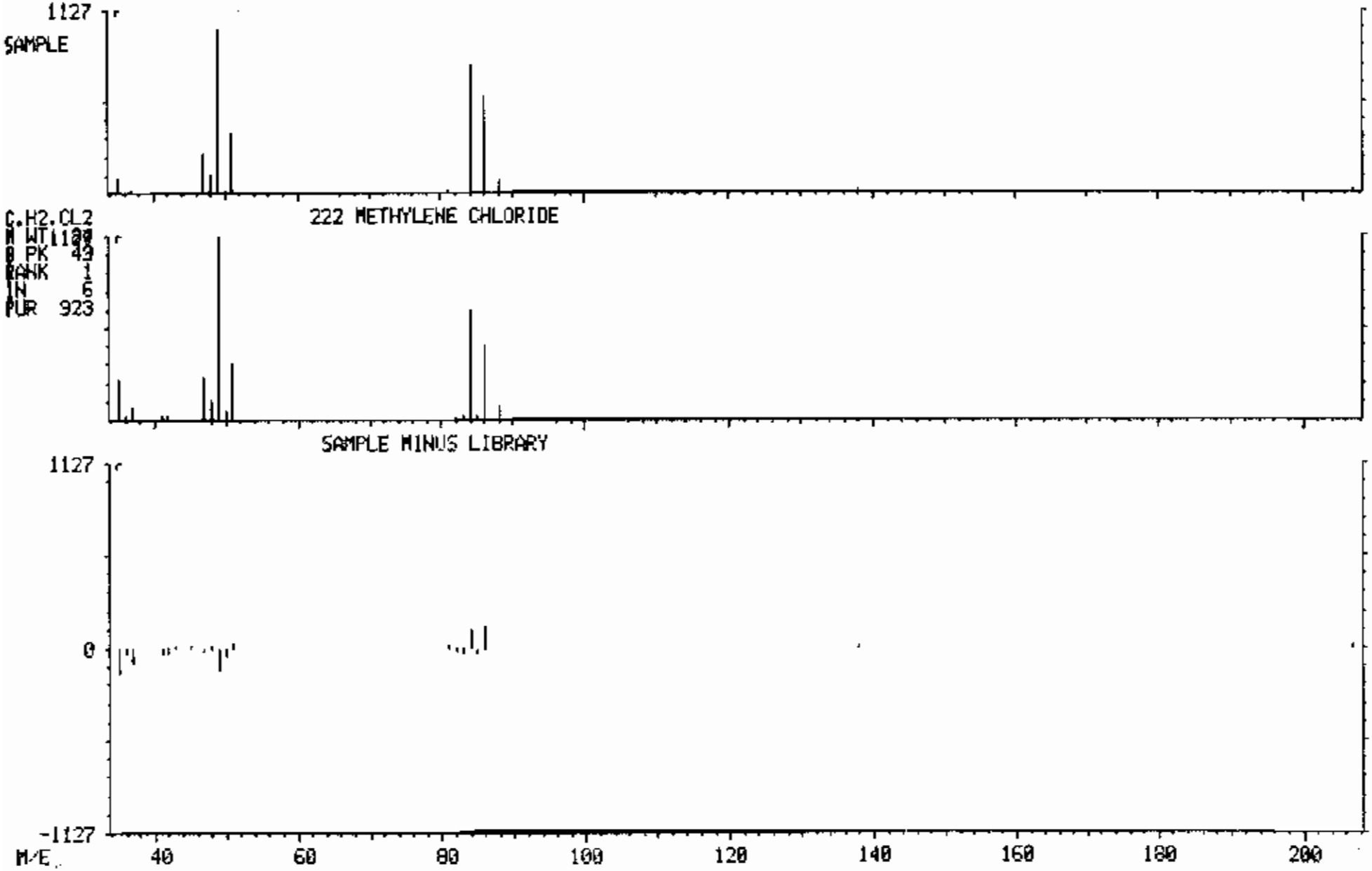
Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

COMPUCHEM LABS

LIBRARY SEARCH
05/08/85 6:50:00 + 5:43
SAMPLE: 10 ML H2O+5 UL 14579&14581
ENHANCED (S 15B 2N 0T)

DATA: GC050508C12 # 132
BASE M/E: 49
RIC: 13455.

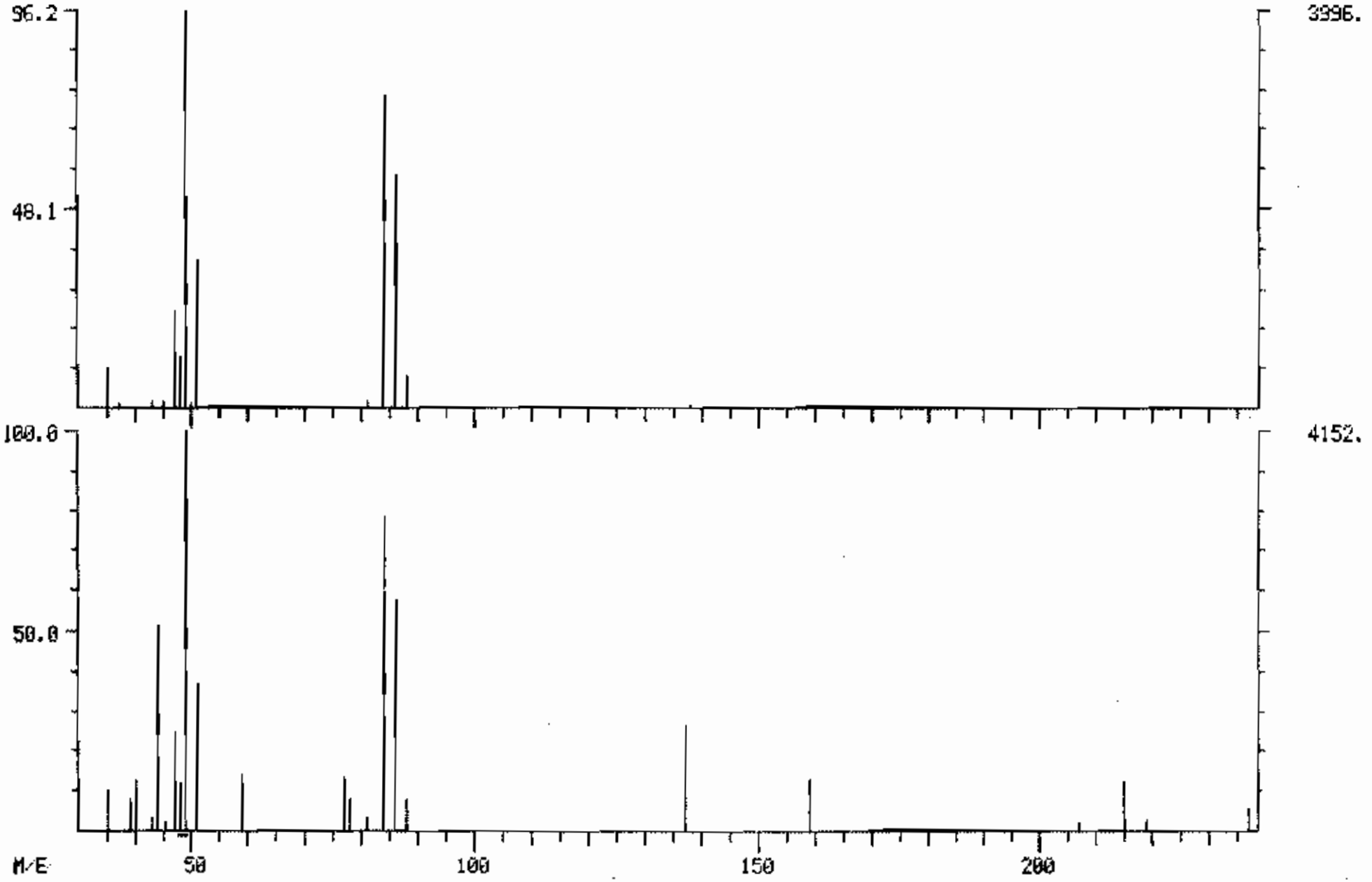


2nr

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/08/85 6:50:00 + 5:43
SAMPLE: 10 ML H2O+5 UL 14579&14581
ENHANCED (S 150 2N)

DATA: GC850508C12 #132 BASE M/E: 49 49
RIC: 13455. 20895.

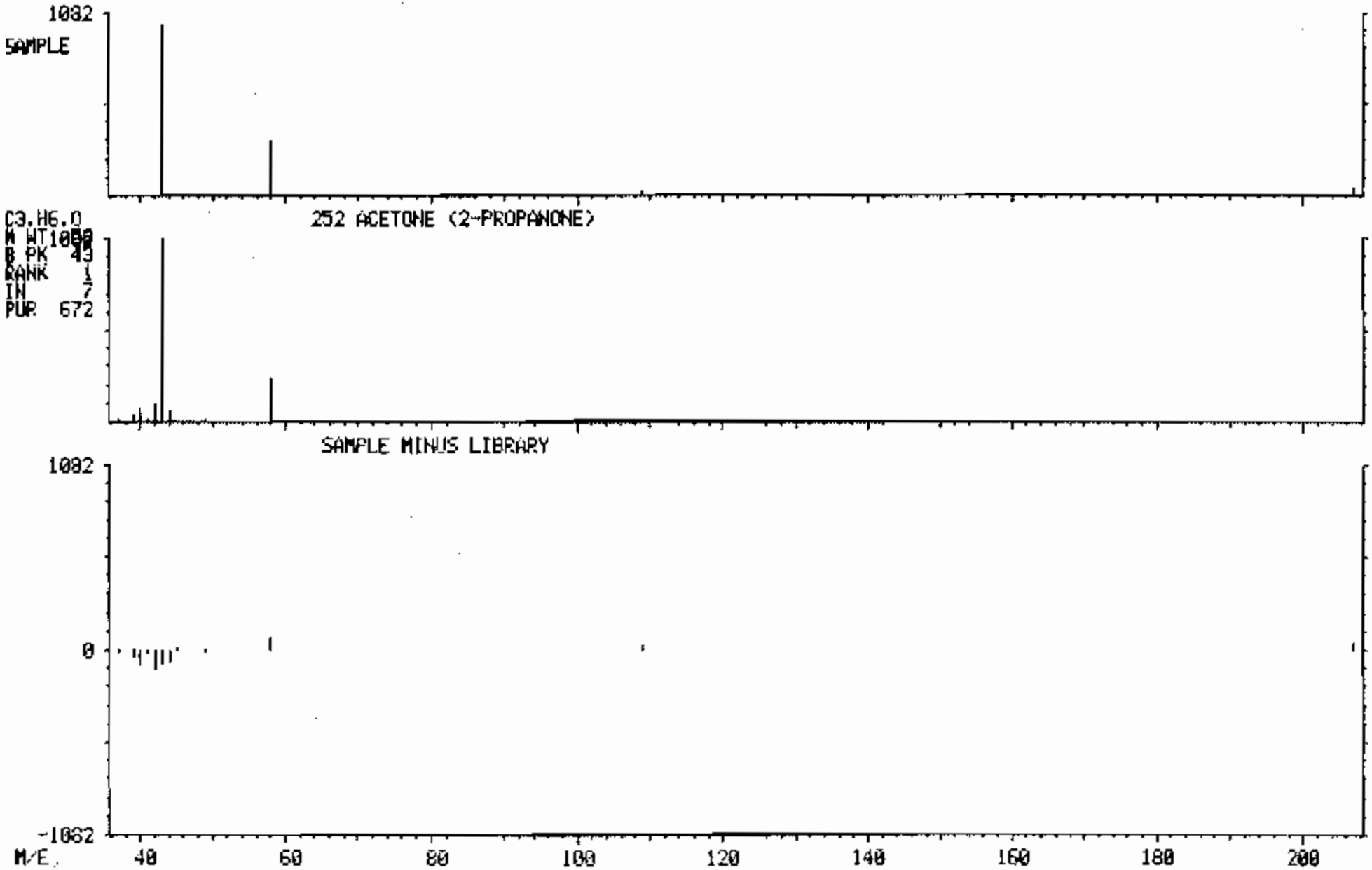


COMPUCHEM LABS

LIBRARY SEARCH
05/08/85 6:50:00 + 7:13
SAMPLE: 10 ML H2O+5 UL 14573&14581
ENHANCED (S 150 2N 0T)

DATA: GC850508C12 # 144

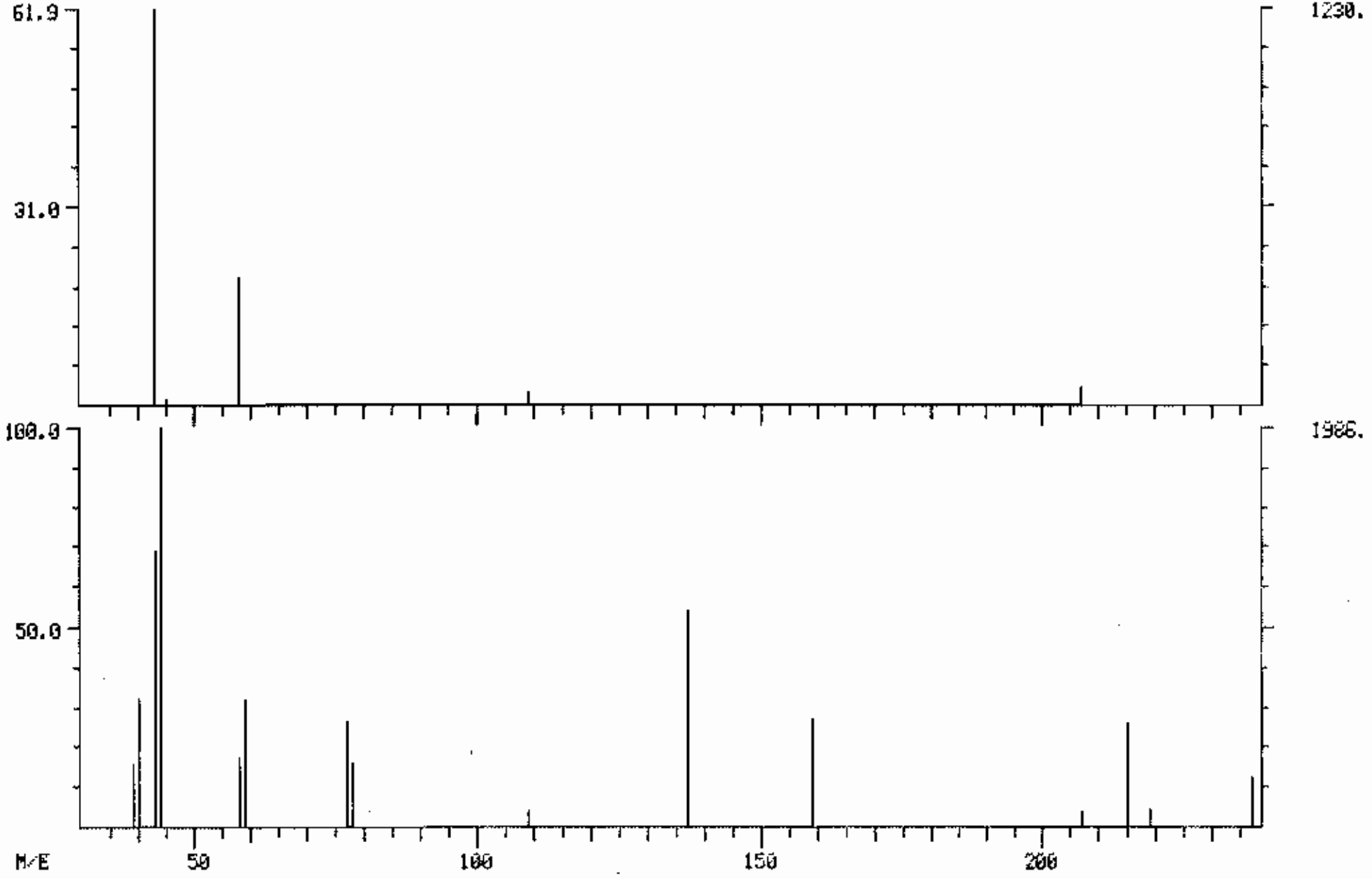
BASE M/E: 43
RIC: 1737.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/03/85 6:50:00 + 7:19
SAMPLE: 10 ML H2O+5 UL 14579&14581
ENHANCED (S 15B 2N)

DATA: GC850508C12 #144 BASE M/E: 43/ 44
RIC: 1737./ 8735.



Environmental Protection Agency, CLP Sample Management Office
Box 818, Alexandria, VA 22313 703-557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: GBBS0507A12
Sample Matrix: solid
Date Release
Authorized By:

Case:
QC Report No:
Contract No: 68-01-7017
Date Sample
Received:

Volatile Compounds

Concentration: low
Date extracted/prepared:
Date analyzed:
Conc/Dil Factor: 1.00 pH:
Percent moisture: 0%
Percent moisture (decanted):

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	7.1		79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

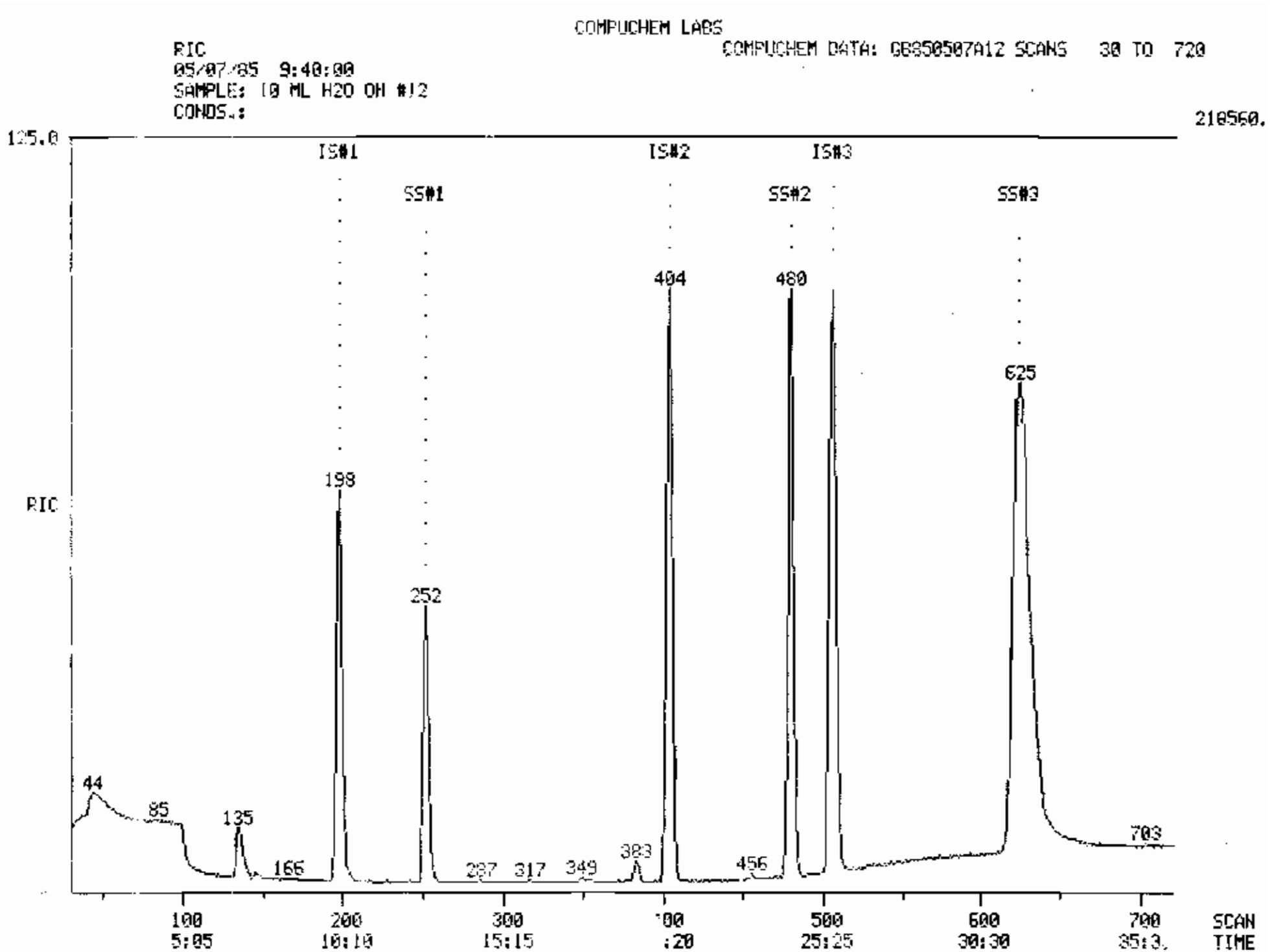
Environmental Protection Agency · CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE	VOA		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
05/07/85 9:40:00
SAMPLE: 10 ML H2O OH #12
CONDS.:
COMPUCHEM DATA: CB850507A12 SCANS 30 TO 720
210560.
125.0
RIC
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
198
252
404
480
625
44
85
135
166
287
317
349
383
456
703
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:3.
SCAN
TIME

PROCEDURE: FR DIAGNOSTIC REPORT 5/07/85 10:21:50
DATA FILE: GB850507A12
REFERENCE: ----

METHOD: E238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

< ---- STANDARDS ----- >< --- FLOD UNKNOWNS --- >< - LIST NAMES - >

PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	6	1	192	E238S/E238U

42 COMPOUNDS PROCESSED, 6 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><						------ CHRO ------- >			
NO	LIB	ENTRY	REF	FRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E5	1	-193	198	198	.	1	941	.	128	198	.	1
2	E6	1	-398	404	404	.	1	990	.	114	404	.	1
3	E7	1	-499	506	506	.	1	982	.	117	506	.	1
4	E5	2	-37	39	.	.	.	.	.	50	.	.	.
5	E5	3	-56	58	.	.	.	.	.	94	.	.	
6	E5	4	-72	75	.	.	.	.	.	62	.	.	.
7	E5	5	-90	93	.	.	.	.	.	64	.	.	.
8	E5	6	-131	134	.	.	.	.	.	84	135	.	1
9	E5	7	-142	146	.	.	.	.	.	43	146	.	1
10	E5	8	-160	164	.	.	.	.	.	76	166	.	1
11	E5	9	-183	187	.	.	.	.	.	96	.	.	.
12	E5	10	-209	214	.	.	.	.	.	63	.	.	.
13	E5	11	-223	228	.	.	.	.	.	96	.	.	
14	E5	12	-234	239	.	.	.	.	.	83	.	.	
15	E5	13	-248	253	.	.	.	.	.	62	.	.	.
[illegible]	E6	2	-246	251	.	.	.	.	.	72	252	.	1
	E6	3	-275	280	.	.	.	.	.	97	.	.	.
18	E6	4	-283	289	.	.	.	.	.	117	.	.	.
19	E6	5	-284	290	.	.	.	.	.	43	.	.	.
20	E6	6	-292	298	.	.	.	.	.	83	.	.	.
21	E6	7	-320	326	.	.	.	.	.	63	.	.	.
22	E6	8	-325	331	.	.	.	.	.	75	.	.	.
23	E6	9	-336	342	.	.	.	.	.	130	.	.	.
24	E6	10	-348	355	.	.	.	.	.	129	.	.	.
25	E6	11	-350	357	.	.	.	.	.	97	.	.	.
26	E6	12	-346	353	.	.	.	.	.	78	354	.	1
27	E6	13	-351	358	.	.	.	.	.	75	.	.	.
28	E6	14	-372	379	.	.	.	.	.	63	.	.	.
29	E6	15	-403	410	.	.	.	.	.	173	.	.	
30	E7	2	-413	420	.	.	.	.	.	43	.	.	.
31	E7	3	-444	452	.	.	.	.	.	43	.	.	.
32	E7	4	-450	458	.	.	.	.	.	164	.	.	.
33	E7	5	-449	457	.	.	.	.	.	83	.	.	.
34	E7	6	-477	485	.	.	.	.	.	92	484	.	1
35	E7	7	-501	510	.	.	.	.	.	112	.	.	.
36	E7	8	-549	558	.	.	.	.	.	106	.	.	.
37	E7	9	-649	660	.	.	.	.	.	104	.	.	.
38	E7	10	-657	668	.	.	.	.	.	106	.	.	.
39	E7	11	-682	693	.	.	.	.	.	106	.	.	.
40	E8	2	-246	251	252	1	1	974	.	65	252	.	1
41	E8	3	-611	621	624	3	1	991	.	95	623	-1	2
	E8	4	-473	481	480	-1	1	989	.	98	479	-1	1

QUANTITATION REPORT FILE: G8E50507A12

DATA: G8B50507A12.TI
05/07/85 9:40:00
SAMPLE: 10 ML H2O ON #12
   'DS.
SUBMITTED BY: #12 ANALYST: 633

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	213 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* 25 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROHOFLUOROBENZENE
42	# DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
	128	198	10:04	1	1.000	A BB	82777.	50.000 UG/KG	16.79
	50	NOT FOUND							

NO	% C	LAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
[illegible]									
5	64	NOT FOUND							
[illegible]	84	135	6:52	1	0.532	A BB	20071.	7.174 UG/KG	2.41
7	43	146	7:25	1	0.787	A BB	4783.	4.122 UG/KG	1.38
[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	A BB	[illegible]	[illegible] UG/KG	[illegible]
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	404	20:32	14	1.000	A BB	298157.	50.000 UG/KG	16.79
15	72	252	12:49	14	0.624	A BB	881.	1.901 UG/KG	0.64
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	43	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	354	18:00	14	0.876	A BB	1853.	0.346 UG/KG	0.12
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	506	25:43	29	1.000	A BB	278637.	50.000 UG/KG	16.79
30	43	NOT FOUND							
[illegible]	43	NOT FOUND							
[illegible]	164	NOT FOUND							
33	83	NOT FOUND							
34	92	484	24:36	29	0.957	A BB	857.	0.206 UG/KG	0.07
35	112	NOT FOUND							
36	126	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	252	12:49	1	1.273	A BB	116300.	40.915 UG/KG	13.74
41	95	423	31:40	29	1.231	A*BB	227542.	46.201 UG/KG	15.51
42	98	479	24:21	1	2.415	A BB	271901.	46.881 UG/KG	15.74

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50		10.000			50.00		1.462	
3	2:48		10.000			50.00		2.039	
4	3:33		10.000			50.00		1.512	
5	4:34		10.000			50.00		0.813	
6	6:46	1.02	5.000	0.14	7.17	50.00	0.242	1.690	0.14
7	7:19	1.01	10.000	0.07	4.13	50.00	0.058	0.700	0.08
8	8:20	1.01	5.000	0.17	0.11	50.00	0.008	3.606	0.00
9	9:30		5.000			50.00		1.393	
10	10:50		5.000			50.00		2.379	
11	11:32		5.000			50.00		1.470	
12	12:06		5.000			50.00		3.687	
	12:52		5.000			50.00		2.190	
[illegible]	20:29	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RTN(L	RATIO	PRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	1.90	50.00	0.003	0.078	0.04
16	[illegible]		[illegible]			[illegible]		0.757	
17	14:38		5.000			50.00		0.835	
	14:41		10.000			50.00		0.733	
20	15:06		5.000			50.00		0.813	
[illegible]	[illegible]		[illegible]			[illegible]		[illegible]	
21	16:46		5.000			50.00		0.299	
22	17:20		5.000			50.00		0.678	
23	17:57		5.000			50.00		0.788	
24	18:03		5.000			50.00		0.427	
25	17:54	1.01	5.000	0.18	0.35	50.00	0.006	0.897	0.01
26	18:06		5.000			50.00		0.657	
27	19:10		10.000			50.00		0.275	
28	20:41		5.000			50.00		0.868	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15		10.000			50.00		0.754	
31	22:52		10.000			50.00		0.612	
32	23:09		5.000			50.00		0.763	
33	23:05		5.000			50.00		0.824	
34	24:33	1.00	5.000	0.19	0.21	50.00	0.003	0.747	0.00
35	25:49		5.000			50.00		1.276	
36	28:19		5.000			50.00		0.657	
37	33:36		5.000			50.00		0.518	
38	34:03		5.000			50.00		0.856	
39	35:26		5.000			100.00		0.626	
40	12:46	1.00	10.000	0.13	40.92	50.00	1.405	1.717	0.82
41	31:37	1.00	10.000	0.12	46.20	50.00	0.817	0.884	0.92
42	24:21	1.00	10.000	0.24	46.88	50.00	3.285	3.503	0.94

internal standard monitor

file GB850507A12

	sample	shift std	% Diff	P/F
Bromochloromethane	82777	41327	100	P
difluorobenzene	298157	147391	100	P
D5 chlorobenzene	278637	145 324	92	P

VOLATILE - LOW LEVEL SOLID

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (UG/KG)	Limit (UG/KG)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	7.1		7.2	5.0
7	253	___	ACETONE (2-PROPANONE)			BDL	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLORDETHANE			BDL	5.0
15	203	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	209	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

Volatile - Low Level Solid

GC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	D4-1,2-DICHLOROETHANE	40.9	50.0	82.0	50-160	X	
41	BROMOFLUOROBENIENE	46.2	50.0	92.0	50-160	X	
42	D8-TOLUENE	46.9	50.0	94.0	50-160	X	

\# Advisory surrogate only
++ % Recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5.0\ g}{\text{Wet Weight of Sample (g)}} \times \text{GC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ g}{5.0\ (g)} \times \frac{1.0}{} \times \frac{1.0}{} = 1.000$$

NT Report Amount Spiked Conversion Factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

COMPUCHEM LABS

LIBRARY SEARCH
05/07/85 9:40:00 + 6:52
SAMPLE: 10 ML N2O ON #12
ENHANCED (S 15B 2H 0T)

DATA: GB050507A12 # 135
BASE M/E: 49
RIC: 13775.

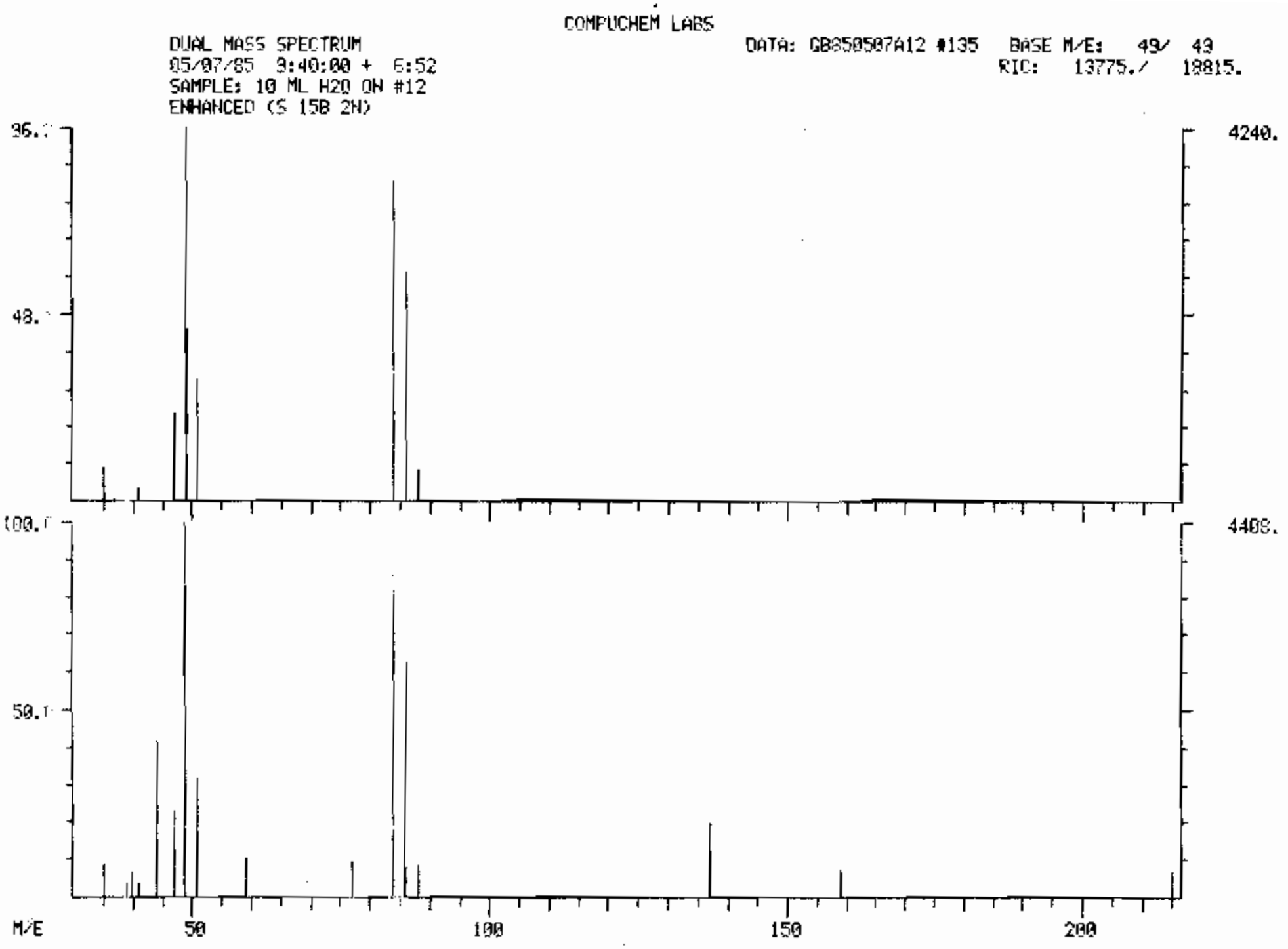
167
SAMP

D.H2 CL2
M WT 84
B PK 49
RANK 1
IN 5
PUR 006

222 METHYLENE CHLORIDE

SAMPLE MINUS LIBRARY

57
0
167
M/E
40
50
60
70
80


COMPUCHEM LABS
DUAL MASS SPECTRUM
05/07/85 9:40:00 + 6:52
SAMPLE: 10 ML H2O ON #12
ENHANCED (S 15B 2N)
DATA: GB850507A12 #135
BASE M/E: 49/ 49
RIC: 13775./ 18815.
4240.
4408.
M/E
50
100
150
200

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 (703-557-2490)

Sample Number
[illegible]
HOLDING BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ConcuChem
Lab Sample ID No: [illegible]
Sample matrix: liquid
Data Release
Authorized By: [signature]

Case: BEN TEST
SAS Report No: 290/335
Contract No: 68-01-6784
Date Sample
Received:

Volatile Compounds

Concentration: low
Date extracted/prepared: 5-29-85
Date analyzed: 5-29-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	5.6		79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	48.		71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

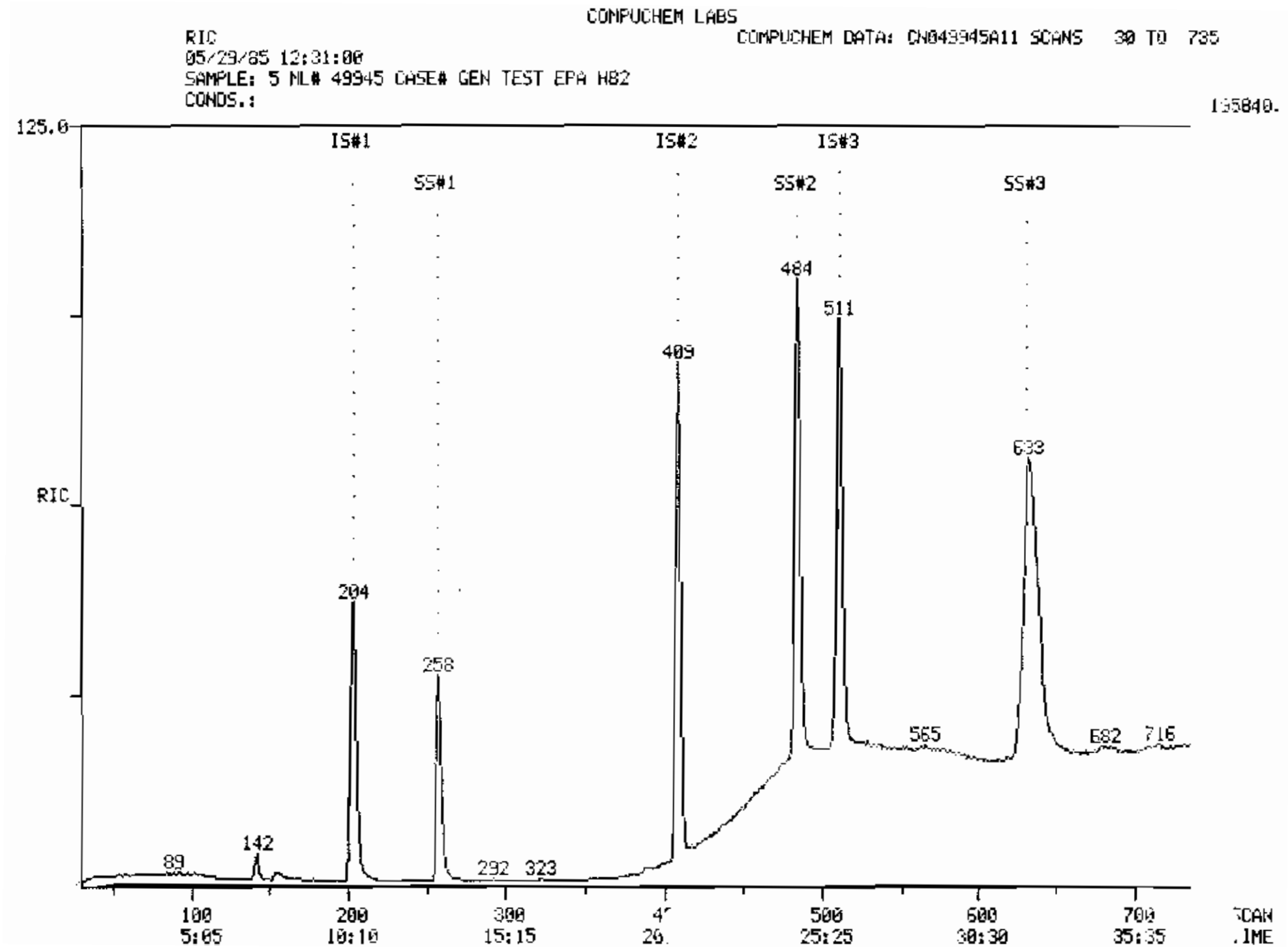
Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

CNG49945A11

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN043945A11 SCANS 30 TO 735
05/29/85 12:31:00
SAMPLE: 5 NL# 49945 CASE# GEN TEST EPA H82
CONDS.:
135840.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
484
511
409
633
RIC
204
258
565
682
716
89
142
292
323
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

Internal Standard Area Monitor

Method: E237 Filename: CN049945A11 Date: 05/29/85
Shift Std: CS850529A11 Time: 12:31

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	39591.	39826.	-0.	Pass
* 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)	172515.	167779.	3.	Pass
* D5 CHLOROBENIENE(INTERNAL STANDARD)	148730.	145814.	2.	Pass

PROCEDURE: RK DIAGNOSTIC REPORT 5/29/85 13:06:19
DATA FILE: CN049945A11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	53	42	7	1	86	E237S/E237U

42 COMPOUNDS PROCESSED. 7 FOUND

COMPOUND			SEARCH					SAT	CHRO		
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E1	1	-203	204	204	.	1	991	.	128	203	-1	1
2	E2	1	-410	409	409	.	1	991	.	114	409	.	1
3	E3	1	-512	511	511	.	1	972	.	117	511	.	1
4	E1	2	-43	45	.	.	.	.	.	50	.	.	.
5	E1	3	-62	63	.	.	.	.	.	94	.	.	.
6	E1	4	-77	78	.	.	.	.	.	62	.	.	.
7	E1	5	-97	98	.	.	.	.	.	64	.	.	.
8	E1	6	-140	141	142	1	1	911	.	84	142	.	1
9	E1	7	-152	153	.	.	.	.	.	43	155	.	1
10	E1	8	-172	173	.	.	.	.	.	76	.	.	.
11	E1	9	-195	196	.	.	.	.	.	96	.	.	.
12	E1	10	-221	222	.	.	.	.	.	63	.	.	.
13	E1	11	-235	235	.	.	.	.	.	96	.	.	.
14	E1	12	-245	245	.	.	.	.	.	83	.	.	.
15	E1	13	-261	261	.	.	.	.	.	62	.	.	.
16	E2	2	-259	259	.	.	.	.	.	72	.	.	.
17	E2	3	-288	288	.	.	.	.	.	97	.	.	.
18	E2	4	-295	295	.	.	.	.	.	117	.	.	.
	E2	5	-298	298	.	.	.	.	.	43	.	.	.
20	E2	6	-304	304	.	.	.	.	.	83	.	.	.
21	E2	7	-333	333	.	.	.	.	.	63	.	.	.
22	E2	8	-337	337	.	.	.	.	.	75	.	.	.
23	E2	9	-348	348	.	.	.	.	.	130	.	.	.
24	E2	10	-359	359	.	.	.	.	.	129	.	.	.
25	E2	11	-362	362	.	.	.	.	.	97	.	.	.
26	E2	12	-360	360	.	.	.	.	.	78	359	.	1
27	E2	13	-363	363	.	.	.	.	.	75	.	.	.
28	E2	14	-384	384	.	.	.	.	.	63	.	.	.
29	E2	15	-413	413	.	.	.	.	.	173	.	.	.
30	E3	2	-425	424	.	.	.	.	.	43	.	.	.
31	E3	3	-456	455	.	.	.	.	.	43	.	.	.
32	E3	4	-461	460	.	.	.	.	.	164	.	.	.
33	E3	5	-459	458	.	.	.	.	.	83	.	.	.
34	E3	6	-489	488	.	.	.	.	.	92	488	.	1
35	E3	7	-515	514	.	.	.	.	.	112	516	.	2
36	E3	8	-566	565	.	.	.	.	.	106	564	.	2
37	E3	9	-675	673	.	.	.	.	.	104	.	.	.
38	E3	10	-685	683	.	.	.	.	.	106	683	.	1
39	E3	11	-712	710	.	.	.	.	999	106	.	.	.
40	E4	2	-259	259	258	-1	1	966	.	65	258	.	1
41	E4	3	-633	631	632	1	1	976	.	95	632	.	1
42	E4	4	-485	484	484	.	1	989	.	98	484	.	1

QUANTITATION REPORT FILE: CN049945A11

DATA: CN049945A11.TI
05/29/85 12:31:00
SAMPLE: 5 ML# 49945 CASE# CEN TEST EPA HB2
DS. :
SUBMITTED BY: 11 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
	128	203	10:19	1	1.000	A BB	39592	50.000 UG/L	14.55
	50	NOT FOUND							

NO	M/E	SCAN	TI							
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	142	7:13	1	0.700	A BB	6183.	5.683	UG/L	1.65
7	43	155	7:53	1	0.764	A BV	10894.	48.136	UG/L	14.01
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUNO								
13	62	NOT FOUND								
14	114	409	20:47	14	1.000	A BB	172516.	50.000	UG/L	14.55
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NDT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	359	18:15	14	0.878	A BB	434.	0.144	UG/L	0.04
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	511	25:59	29	1.000	A BB	148730.	50.000	UG/L	14.55
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	488	24:48	29	0.955	A BB	2207.	1.021	UG/L	0.30
35	112	516	26:14	29	1.010	A*BV	1811.	0.611	UG/L	0.18
36	106	564	28:40	29	1.104	A*BV	1456.	1.066	UG/L	0.31
37	104	NOT FOUND								
38	106	683	34:43	29	1.337	A VV	2633.	1.295	UG/L	0.38
39	106	NOT FOUND								
40	65	258	13:07	1	1.271	A BB	78954.	44.232	UG/L	12.87
41	95	632	32:08	29	1.237	A BB	125612.	44.865	UG/L	13.06
42	98	484	24:36	1	2.384	A BB	164935.	46.579	UG/L	13.56

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:19	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:11		10.000			50.00		1.328	
3	3:09		10.000			50.00		1.773	
4	3:55		10.000			50.00		1.230	
5	4:56		10.000			50.00		0.672	
6	7:07	1.01	5.000	0.14	5.68	50.00	0.156	1.374	0.11
7	7:44	1.02	10.000	0.08	48.14	50.00	0.275	0.286	0.96
8	8:45		5.000			50.00		3.829	
9	9:55		5.000			50.00		1.245	
10	11:14		5.000			50.00		2.250	
11	11:57		5.000			50.00		1.287	
12	12:27		5.000			50.00		3.301	
13	13:16		5.000			50.00		2.193	
	20:50	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

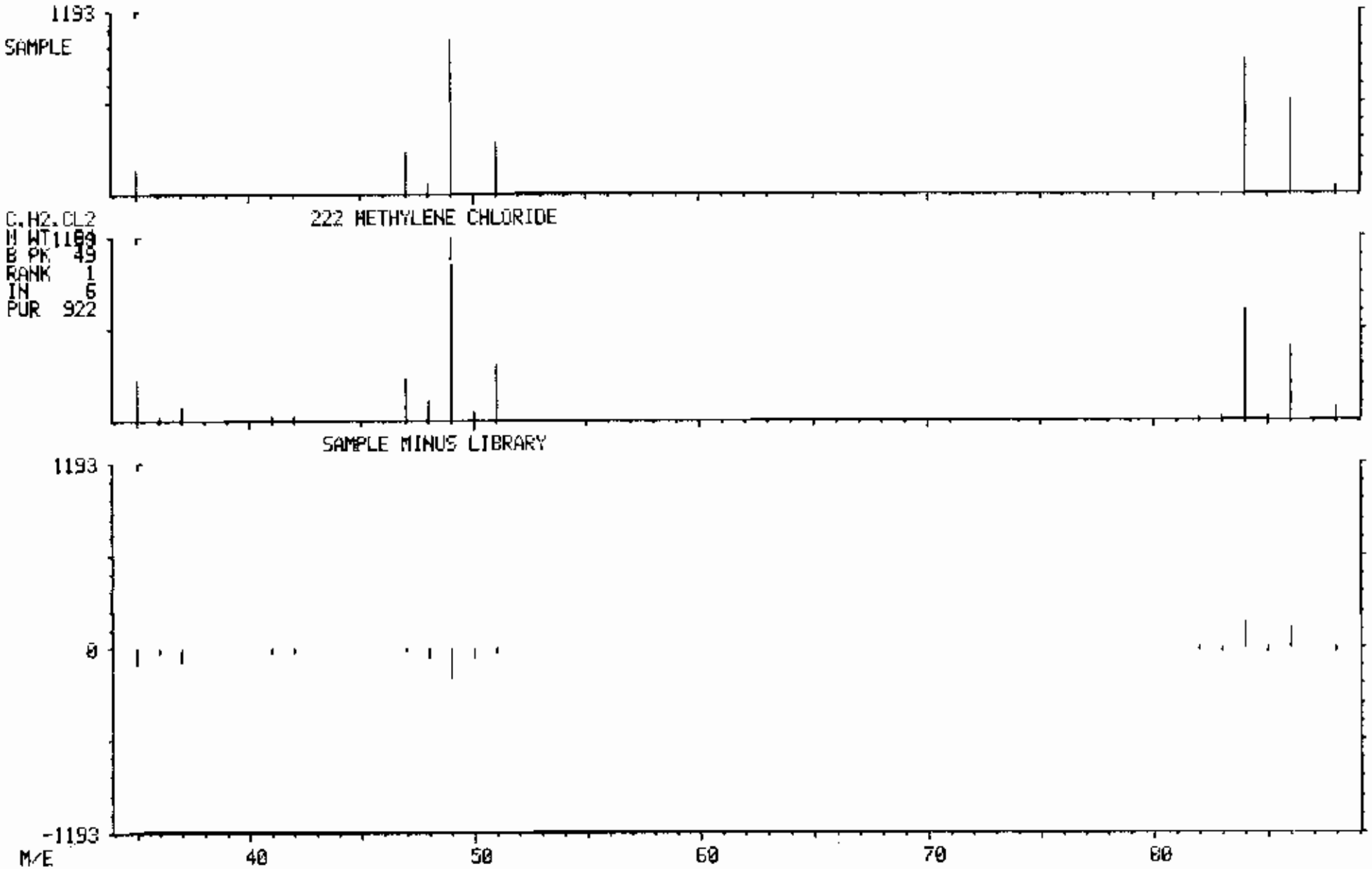
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	13:10		10.000			50.00		0.027	
16	14:38		5.000			50.00		0.621	
17	15:00		5.000			50.00		0.619	
'9	15:09		10.000			50.00		0.536	
)	15:27		5.000			50.00		0.699	
20	16:56		5.000			50.00		0.322	
21	17:08		5.000			50.00		0.215	
22	17:41		5.000			50.00		0.419	
23	18:15		5.000			50.00		0.574	
24	18:24		5.000			50.00		0.352	
25	18:18	1.00	5.000	0.18	0.14	50.00	0.003	0.872	0.00
26	18:27		5.000			50.00		0.677	
27	19:31		10.000			50.00		0.165	
28	21:00		5.000			50.00		0.308	
29	26:02	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:36		10.000			50.00		0.268	
31	23:11		10.000			50.00		0.165	
32	23:26		5.000			50.00		0.440	
33	23:20		5.000			50.00		0.439	
34	24:51	1.00	5.000	0.19	1.02	50.00	0.015	0.727	0.02
35	26:11	1.00	5.000	0.20	0.61	50.00	0.012	0.997	0.01
36	28:46	1.00	5.000	0.22	1.07	50.00	0.010	0.459	0.02
37	34:19		5.000			50.00		1.131	
38	34:49	1.00	5.000	0.27	1.30	50.00	0.018	0.683	0.03
39	36:12		5.000			100.00		0.604	
40	13:10	1.00	10.000	0.13	44.23	50.00	1.994	2.254	0.88
41	32:11	1.00	10.000	0.12	44.89	50.00	0.845	0.941	0.90
42	24:39	1.00	10.000	0.24	46.58	50.00	4.166	4.472	0.93

COMPUCHEM LABS

LIBRARY SEARCH
05/29/85 12:31:00 + 7:13
SAMPLE: 5 ML# 49945 CASE# GEN TEST EPA HB2
ENHANCED (S 15B 2H 0T)

DATA: CN049945A11 # 142

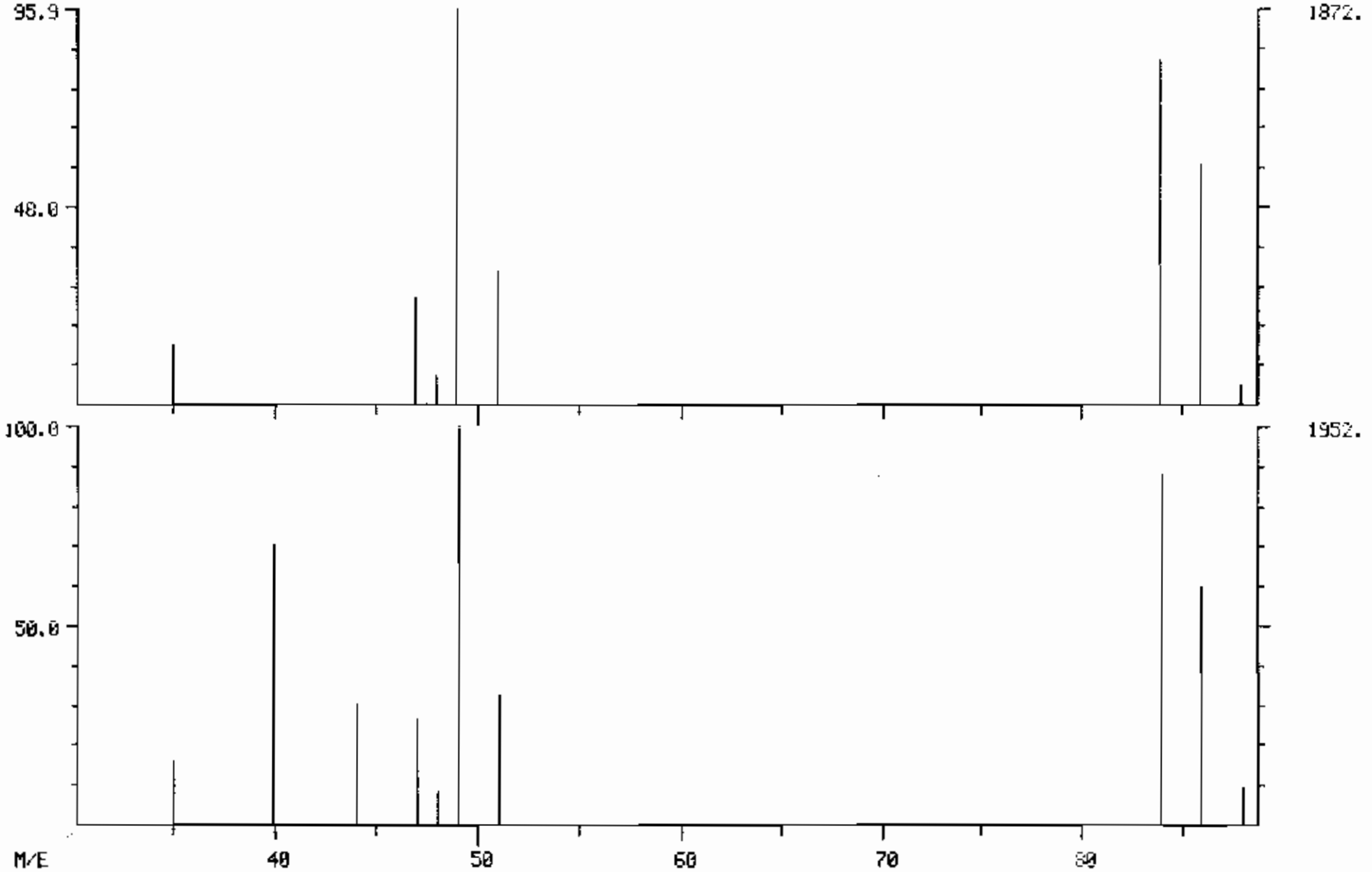
BASE M/E: 49
RIC: 5287.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/29/85 12:31:00 + 7:13
SAMPLE: 5 ML# 49945 CASE# GEN TEST EPA NB2
ENHANCED (5 15B 2N)

DATA: CN049945A11 #142 BASE M/E: 49/ 49
RIC: 6287./ 8623.

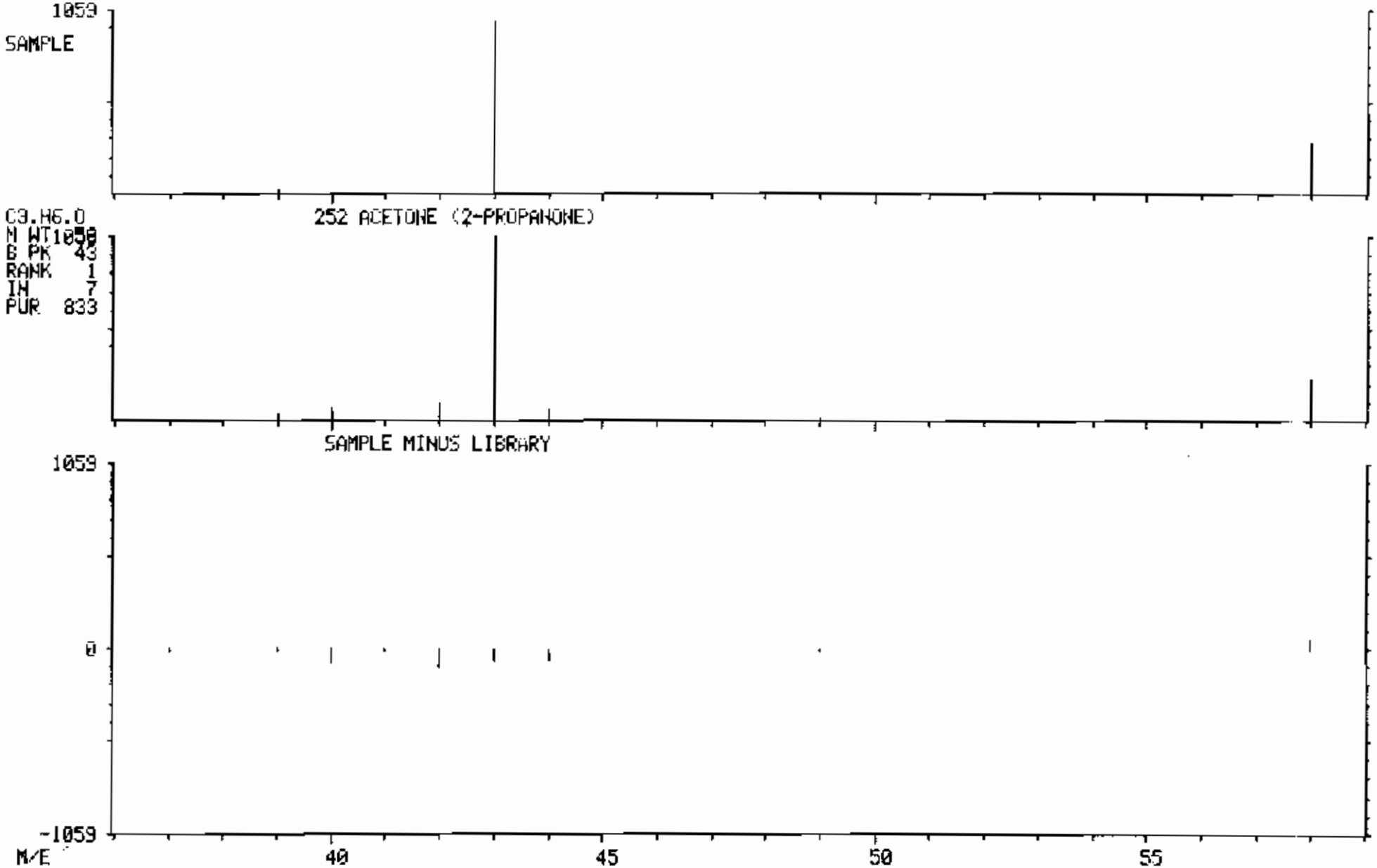


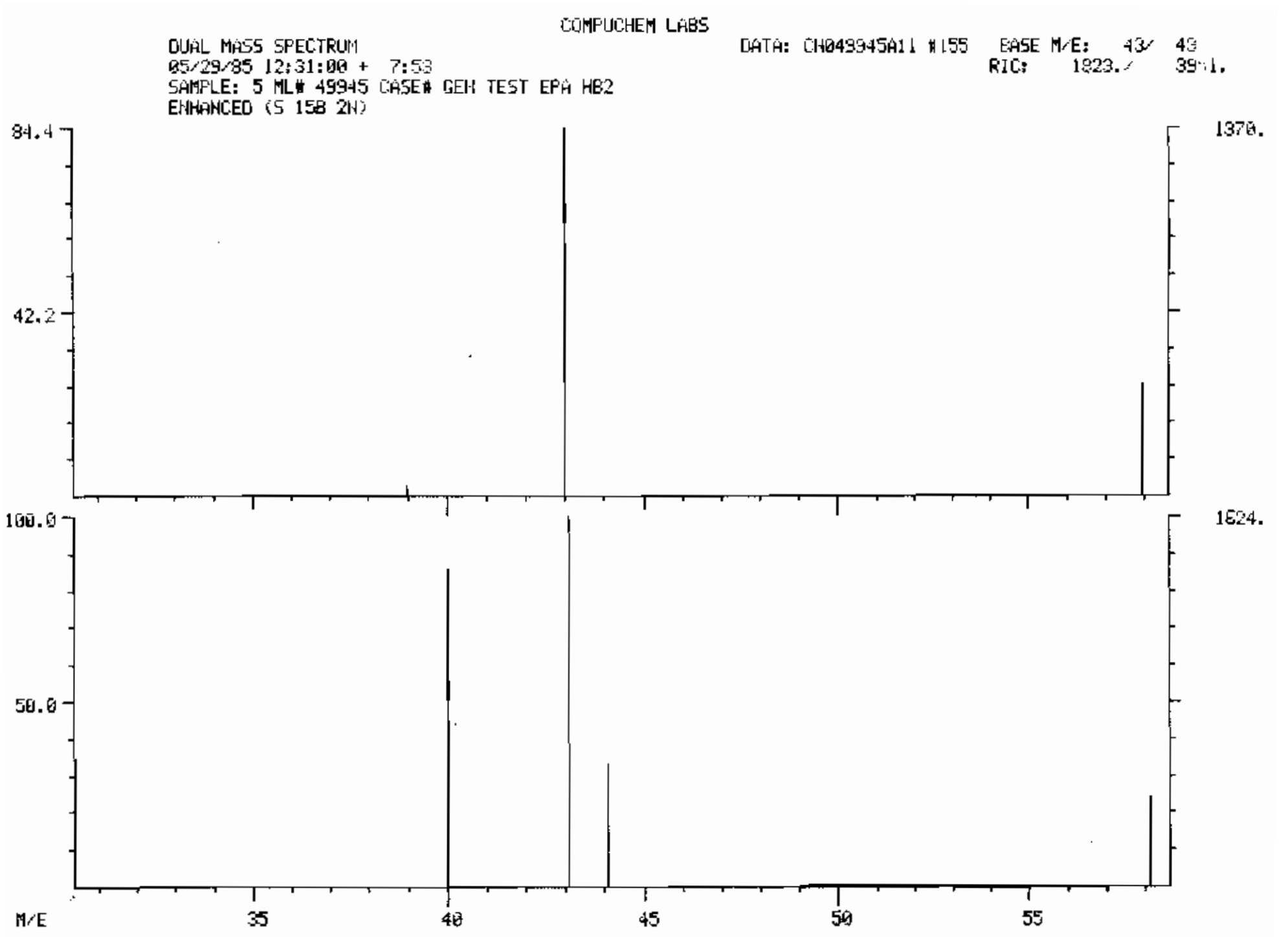
COMPUCHEM LABS

LIBRARY SEARCH
05/29/85 12:31:00 + 7:53
SAMPLE: 5 ML# 49945 CASE# GEN TEST EPA HB2
ENHANCED (S 15B 2N 0T)

DATA: CN049945A11 # 155

BASE M/E: 43
RIC: 1823.




COMPUCHEM LABS
DUAL MASS SPECTRUM
05/29/85 12:31:00 + 7:53
SAMPLE: 5 ML# 49945 CASE# GEN TEST EPA HB2
ENHANCED (S 158 2N)
DATA: CH049945A11 #155 BASE M/E: 43/ 40
RIC: 1823./ 39%1.
84.4
42.2
1370.
100.0
50.0
1824.
M/E
35
40
45
50
55

CASE#: GEN. TEST DUE DATE: 5/26/85

VOA
GC/MS WORKSHEET COMPLCHEM#: 49945

J1 [ ] J3I [ ] DI [ ] (,13
J2I [ ] J4I [ ] DZI [ ] (;;)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---060
Instrument Code---256
Compound List----143
Surrogate Std----394
Internal Std-----C36

SAS: EPA#: HOLDING BLANKS 290/375

GC/MS ANALYSIS

Amount Purged: [✓] Sample [ ] Dilution_____ml/5000ml Purged
Internal Standard Volume Added___5___ul
Surrogate Standard Volume Added___5___ul
BFB Filename___BF05A9CU___Disk(115)
Blank Filename___CBF05A21BU___Disk ( )
Standard Filename___CIC105A29BU___Disk ( )
Sample Filename___CN049945AU___Disk ( )

ANALYST(S): Injection___SM___ Work-up___SM___

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JG,SM,SL,BH,JA,PA

Non-Entry Codes IN,I ,IH,SW,CT,DD,PD,MT
IF,LA,PA,CO,RN,I-W,ST,CF
UP,PB,QT,VC,FC,SM

Disposition: [✓] Complete

Extraneous Peak Search Results
# of Peaks Found:___0___

[ ] Reinject Neat

[ ] Dilute (:13

Quality Assurance Notification
Notices Required_____

COMMENTS

GC/MS Review JAB Date 5/30/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN049945AU/_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

5/30/85 5/30/85

Volatile - Medium or Low Level Liquid

No	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	5.6		5.7 B	5.0
7	252	___	ACETONE (2-PROPANONE)	48.1		48.0	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	D4-1,2-DICHLOROETHANE	44.2	50.0	88.0	77-120	X	
41	BROMOFLUOROBENZENE	44.9	50.0	90.0	85-121	X	
42	D8-TOLUENE	46.6	50.0	93.0	86-119	X	

\# Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

P / F

Internal Standard (#1) Bromochloromethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5000 \text{ UL}}{\text{Volume of Sample Purged (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.000$$

ant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
SH049912B12

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ComuChem
Lab Sample ID No: SH049912B12
Sample matrix: solid
Data Release
Authorized By: _____

Case: BEN TEST
QC Report No: 239/344
Contract No: 68-01-6784
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 5-6-85
Date analyzed: 5-7-85
Conc/Dil Factor: 1.00
Percent moisture: 0%
Percent moisture (decanted):

pH:

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	6.7		79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified [illegible] or when a value is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E This flag identifies compounds whose concentrations exceed the [illegible] spectral data indicates the presence of a compound that meets the identification criteria but the result is

[illegible] Specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		None			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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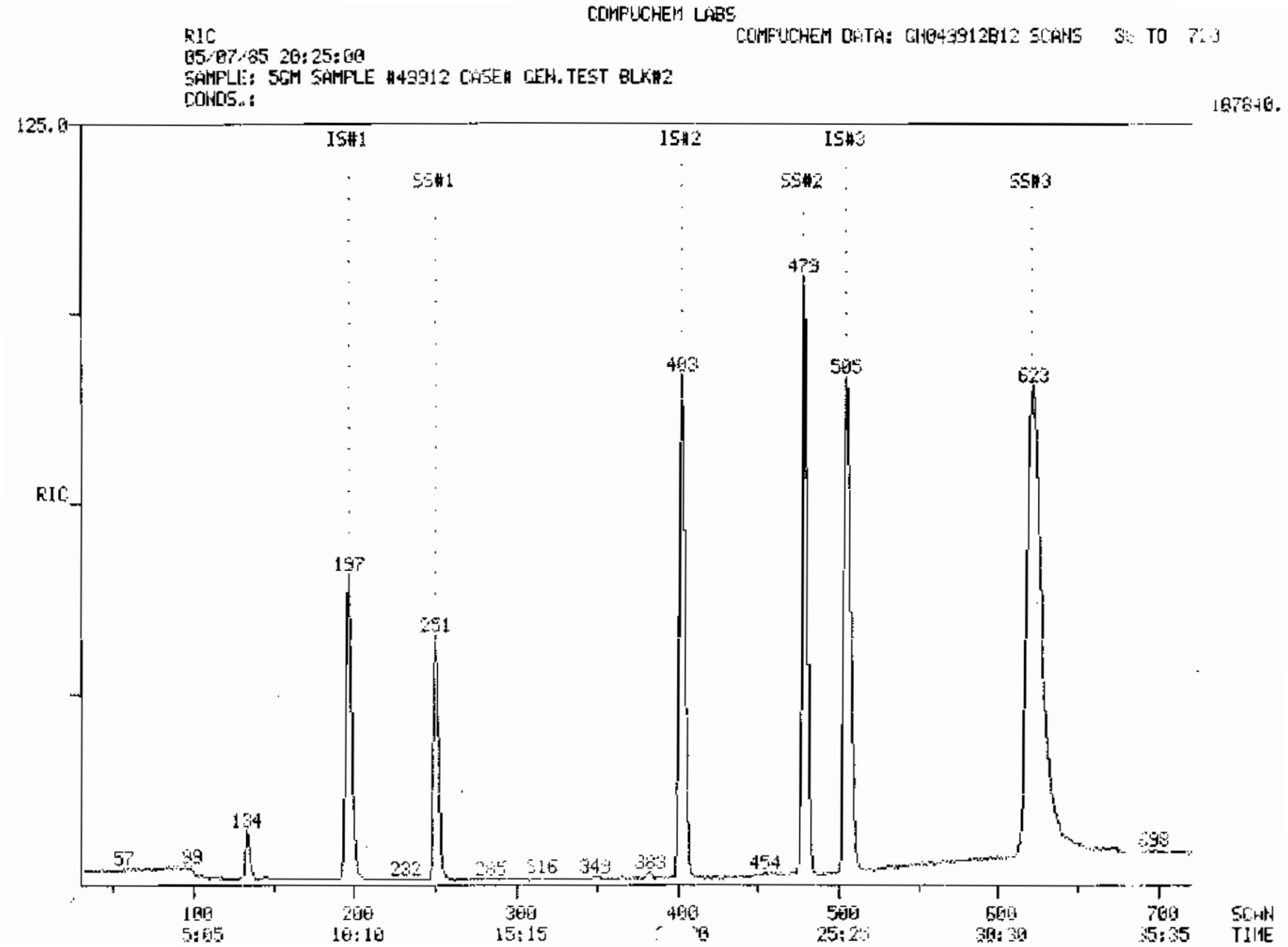
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GN043912B12 SCANS 3% TO 71%
05/07/85 20:25:00
SAMPLE: SGM SAMPLE #43912 CASE# GEN.TEST BLK#2
CONDS.:
187840.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
403
505
623
197
251
134
57
89
232
285
316
349
383
454
598
RIC
100
5:05
200
10:10
300
15:15
400
500
25:25
600
30:30
700
35:35
SCAN
TIME

METHOD: E238 FILENAME: GH049912B12 DATE: 05/07/85
SHIFT STD: GS850507A12 TIME: 20:25

	COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*	BROMOCHLOROMETHANE (IS)	50950.	41326.	23.	PASS
*	1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	215992.	149390.	45.	PASS
*	05 CHLOROBENZENE(INTERNAL STANDARD)	202795.	145325.	40.	PASS

PROCEDURE: RM DIAGNOSTIC REPORT 5/07/85 21:06:09
DATA FILE: GH049912B12
REFERENCE: E238
METHOD: E238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	0	42	6	1	69	E238S/E238U

42 COMPOUNDS PROCESSED, 6 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOF	DELTA	PEAKS
1	E5	1	-198	197	197	.	1	955	.	125	197	.	1
2	E6	1	-404	403	403	.	1	995	.	114	403	.	1
3	E7	1	-506	505	505	.	1	978	.	117	505	.	1
4	E5	2	-37	37	.	.	.	.	.	50	.	.	.
5	E5	3	-57	57	.	.	.	.	.	94	.	.	.
6	E5	4	-72	72	.	.	.	.	.	62	.	.	.
7	E5	5	-91	91	.	.	.	.	.	64	.	.	.
8	E5	6	-134	134	.	.	.	.	.	84	134	.	1
9	E5	7	-146	146	.	.	.	.	.	43	145	.	1
10	E5	8	-166	165	.	.	.	.	.	76	.	.	.
11	E5	9	-189	188	.	.	.	.	.	96	.	.	.
12	E5	10	-215	214	.	.	.	.	.	63	.	.	.
13	E5	11	-226	227	.	.	.	.	.	96	.	.	.
14	E5	12	-239	238	.	.	.	.	.	83	.	.	.
15	E5	13	-254	253	.	.	.	.	.	62	.	.	.
16	E6	2	-253	252	.	.	.	.	.	72	.	.	.
17	E6	3	-281	280	.	.	.	.	.	97	.	.	.
18	E6	4	-289	288	.	.	.	.	.	117	.	.	.
19	E6	5	-291	290	.	.	.	.	.	43	.	.	.
20	E6	6	-298	297	.	.	.	.	.	83	.	.	.
21	E6	7	-327	326	.	.	.	.	.	63	.	.	.
22	E6	8	-331	330	.	.	.	.	.	75	.	.	.
23	E6	9	-342	341	.	.	.	.	.	130	.	.	.
24	E6	10	-355	354	.	.	.	.	.	129	.	.	.
25	E6	11	-357	356	.	.	.	.	.	97	.	.	.
26	E6	12	-359	358	.	.	.	.	.	78	.	.	.
27	E6	13	-357	356	.	.	.	.	.	75	.	.	.
28	E6	14	-379	378	.	.	.	.	.	63	.	.	.
29	E6	15	-409	408	.	.	.	.	.	173	.	.	.
30	E7	2	-420	419	.	.	.	.	.	43	.	.	.
31	E7	3	-451	450	.	.	.	.	.	43	.	.	.
32	E7	4	-457	456	.	.	.	.	.	164	.	.	.
33	E7	5	-455	454	.	.	.	.	.	83	.	.	.
34	E7	6	-484	482	.	.	.	.	.	92	.	.	.
35	E7	7	-509	507	.	.	.	.	.	112	.	.	.
36	E7	8	-559	557	.	.	.	.	.	106	.	.	.
37	E7	9	-664	662	.	.	.	.	.	104	.	.	.
38	E7	10	-673	671	.	.	.	.	.	106	.	.	.
39	E7	11	-674	672	.	.	.	.	.	104	.	.	.
40	E8	2	-252	251	251	.	1	962	.	65	251	.	1
41	E8	3	-625	623	622	-1	1	990	.	95	622	.	1
42	E8	4	-480	478	479	1	1	987	.	98	479	.	1

QUANTITATION REPORT FILE: GH049912B12

DATA: GH049912B12.TI
05/07/85 20:25:00
SAMPLE: SCM SAMPLE #49912 CASE# GEN.TEST BLK#2
CONDS. :
SUBMITTED BY: 12 ANALYST: 719

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	219 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* 05 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# BR-TOLUENE

NO	M/E	SCAN	TIME	REF	RPT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	197	10:01	1	1.000	A BB	50951.	50.000 UG/KG	15.32
2	[illegible]								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	134	6:49	1	0.680	A BB	11549.	6.707 UG/KG	2.05
7	43	145	7:22	1	0.736	A BB	1310.	1.837 UG/KG	0.56
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	403	20:29	14	1.000	A BV	215993.	50.000 UG/KG	15.32
15	72	NOT FOUND							
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BB	202796.	50.000 UG/KG	15.32
30	43	NOT FOUND							
31	43	NOT FOUND							
2	164	NOT FOUND							
33	63	NOT FOUND							
34	92	NOT FOUND							
35	112	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	251	12:46	1	1.274	A BB	89468.	51.136 UG/KG	15.66
41	93	422	31:37	29	1.232	A BB	189020.	54.735 UG/KG	16.15
42	98	479	24:21	1	2.431	A BB	228758.	64.079 UG/KG	19.63

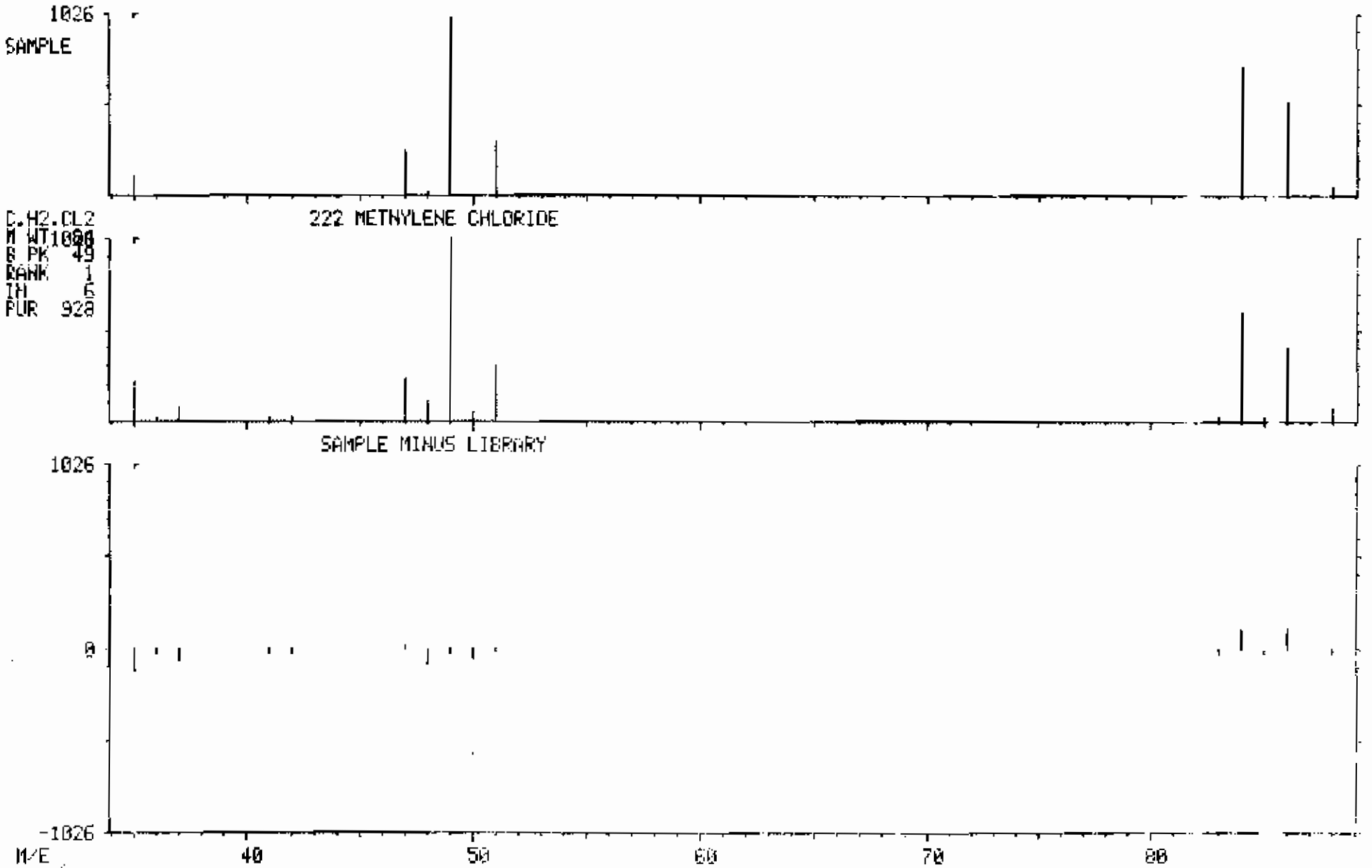
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:53		10.000			50.00		1.462	
3	2:54		10.000			50.00		2.039	
4	3:40		10.000			50.00		1.512	
5	4:38		10.000			50.00		0.813	
6	6:49	1.00	5.000	0.14	6.71	50.00	0.227	1.690	0.13
7	7:25	0.99	10.000	0.07	1.84	50.00	0.026	0.700	0.04
8	8:26		5.000			50.00		3.806	
9	9:36		5.000			50.00		1.393	
10	10:58		5.000			50.00		2.379	
11	11:35		5.000			50.00		1.470	
12	12:09		5.000			50.00		3.687	
[illegible]	[illegible]		[illegible]			[illegible]		[illegible]	
44	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52		10.000			50.00		0.078	
16	14:17		5.000			50.00		0.757	
17	14:41		5.000			50.00		0.835	
18	14:48		10.000			50.00		0.733	
19	15:09		5.000			50.00		0.813	
20	16:37		5.000			50.00		0.398	
21	16:50		5.000			50.00		0.299	
22	17:23		5.000			50.00		0.678	
23	18:03		5.000			50.00		0.788	
24	18:09		5.000			50.00		0.427	
25	17:57		5.000			50.00		0.897	
26	18:09		5.000			50.00		0.857	
27	19:16		10.000			50.00		0.275	
28	20:47		5.000			50.00		0.868	
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:21		10.000			50.00		0.754	
31	22:56		10.000			50.00		0.612	
32	23:14		5.000			50.00		0.763	
33	23:08		5.000			50.00		0.824	
34	24:36		5.000			50.00		0.747	
35	25:52		5.000			50.00		1.276	
36	26:25		5.000			50.00		0.657	
37	33:45		5.000			50.00		0.518	
38	34:13		5.000			50.00		0.218	
39	35:35		5.000			100.00		0.416	
40	12:49	1.00	10.000	0.13	51.14	50.00	1.756	1.717	1.02
41	31:46	1.00	10.000	0.12	52.73	50.00	0.932	0.884	1.05
42	24:24	1.00	10.000	0.24	64.08	50.00	4.490	3.503	1.28

COMPUCHEM LABS

LIBRARY SEARCH
05/07/85 20:25:00 + 6:49
SAMPLE: 5GM SAMPLE #49912 CASE# GEN.TEST BLK#2
ENHANCED (S 15B 2N 0T)

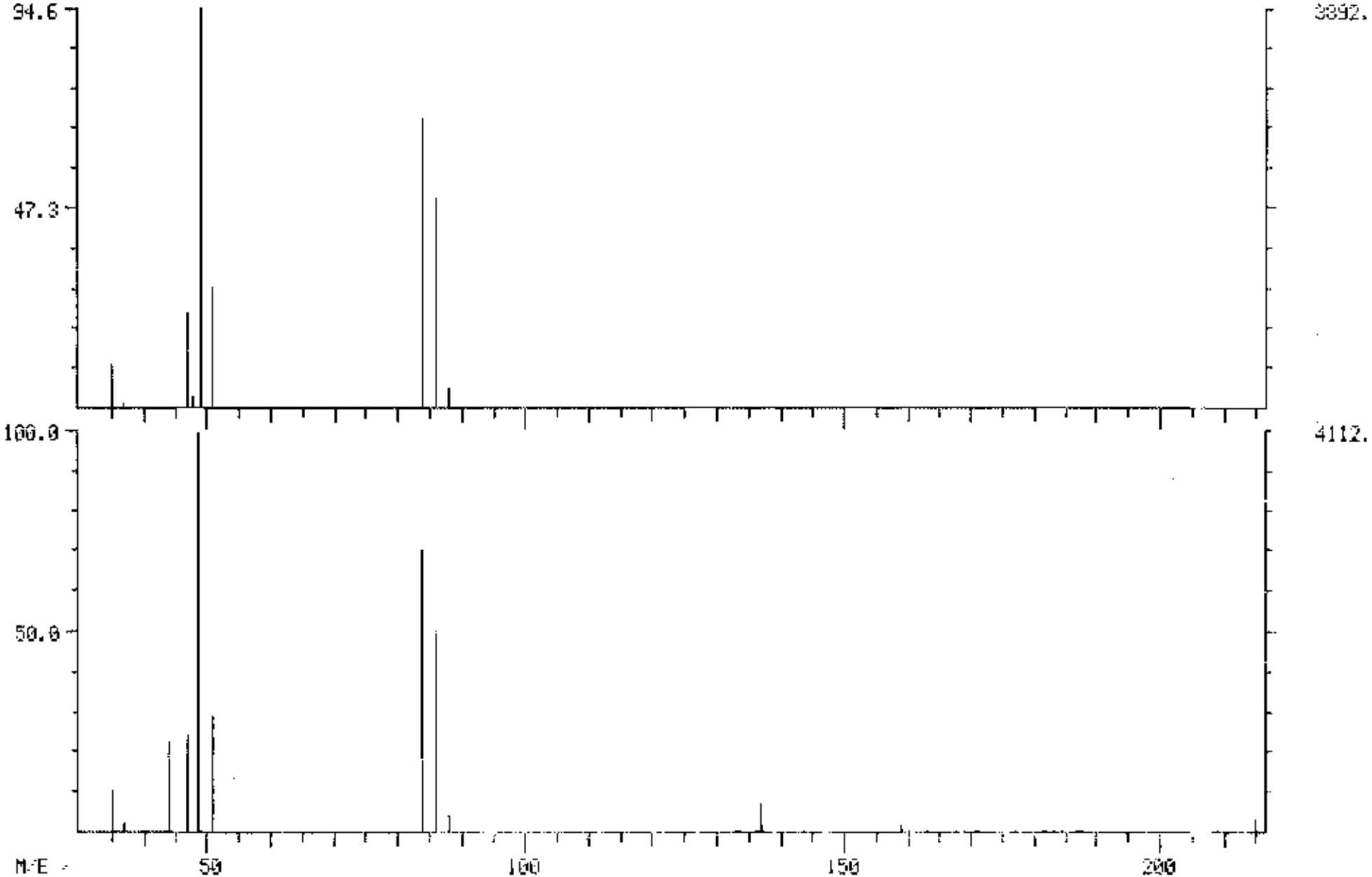
DATA: GH049912B12 # 134
BASE M/E: 49
RIC: 11631.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/07/85 20:25:00 + 6:43
SAMPLE: 5GM SAMPLE #49912 CASE# GEN.TEST BLK#2
ENHANCED (S 156 2N)

DATA: GH049912B12 #134 BASE M/E: 49/ 43
RIC: 11631./ 1 455.



CASE#: GEN. TEST DUE DATE:

VOA
GC/MS WORKSHEET COMPUCHEM#: 49912

R1[ ] R2[ ] D1[ ] (:1)
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code---155
Instrument Code---257
Compound List---146
Surrogate Std---394
Internal Std---036

SAS: EPA#: BLANK # 2 Dry Weight Factor H2O

GC/MS ANALYSIS

Amount Purged: [✓] 10mls/Xg soil or [ ]Dilution:_____ul/10000ul/Xg soil
Internal Standard Volume Added 50 ul
Surrogate Standard Volume Added 50 ul
BFB Filename B1850507C12 Disk(108)
Blank Filename GBSS1507A12 Disk ( )
Standard Filename GSS6507A12 Disk ( )
Sample Filename G4n4992R12 Disk (109)

ANALYST(S): Injection JIS Work-up JIS

GC/MS REVIEW

CONDITION CODE: 01

Entry Codes OK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,IN,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VC,FO,NS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reprep neat required

[ ] Reprep using_____g

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS:

GC/MS Review [signature] Date 5/8/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): G4049912R12 /_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

[signature] 5/8/85

EPASOLID 11/84

received 5/9/85

Volatile - Low Level Solid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detection Limit (ug/kg)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	6.7		6.7	5.0
7	252	___	ACETONE (2-PROPANONE)			BDL	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	206	___	CHLORODIBROMOMETHANE			BDL	5.0
24	225	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

Volatile - Low Level Solid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	51.1	50.0	102.0	50-160	X	
41		BROMOFLUOROBENZENE	52.7	50.0	105.0	50-160	X	
42		DB-TOLUENE	64.1	50.0	128.0	50-160	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5.0\ g}{\text{Wet Weight of Sample (g)}} \times \text{CC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ g}{5.0\ (g)} \times \frac{1.0}{1.0} \times \frac{1\ 0}{} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

VOLATILE PREP WORKSHEET

№ 1192

ASSIGNED TO 19 Ron

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
~~49796~~	~~-BS~~	~~gen Lot~~			~~5.00g~~	~~5-6-85~~					
49818					5.00g			/			
49823			BS		Blank						
49824			SS	49826	5.03g			/			
49825			SS	49826	5.05g			/			
49827					5.00g			/			
49828					5.01g			/			
49829					5.01g			/			
49830					5.09g			/			
49831					5.04g			/			
49859					5.10g			/			
49860					5.00g	↓		/			
49911			B		10ml	5-6-85	/				
49912			B		Blank	↓					
			B								

Surrogate No. _____

Amount _____

Lot _____

Extracts Received 5/6/85 BD

Schedule Reference 299/308 ✓

Manual Counter 278/344 ✓

Issued 5/7 PM

Organics Analysis Data Sheet

Laboratory Name: Compuchem

Page 1

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 5-21-91
Date analyzed: 5-24-91
Dilution Factor: 33.90

CAS Number		ug/kg		CAS Number		ug/kg	
62-75-9	N-Nitrosodimethylamine	340	U	99-09-2	3-Nitroaniline	1700	U
108-95-2	Phenol	340	U	83-32-9	Acenaphthene	340	U
62-53-3	Aniline	340	U	51-28-5	2,4-Dinitrophenol	1700	U
111-44-4	bis(2-Chloroethyl) ether	340	U	100-02-7	4-Nitrophenol	1700	U
95-57-8	2-Chlorophenol	340	U	132-64-9	Dibenzofuran	340	U
541-73-1	1,3-Dichlorobenzene	340	U	121-14-2	2,4-Dinitrotoluene	340	U
106-46-7	1,4-Dichlorobenzene	340	U	606-20-2	2,6-Dinitrotoluene	340	U
100-51-6	Benzyl Alcohol	340	U	84-66-2	Diethylphthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U	7005-72-3	4-Chlorophenyl Phenyl ether	340	U
95-48-7	2-Methylphenol	340	U	86-73-7	Fluorene	340	U
39638-32-9	bis(2-Chloroisopropyl) ether	340	U	100-01-6	4-Nitroaniline	1700	U
106-44-5	4-Methylphenol	340	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
621-64-7	N-Nitroso-Dipropylamine	340	U	86-30-6	N-nitrosodiphenylamine (1)	340	U
67-72-1	Hexachloroethane	340	U	101-55-3	4-Bromophenyl Phenyl ether	340	U
98-95-3	Nitrobenzene	340	U	118-74-1	Hexachlorobenzene	340	U
78-59-1	Isophorone	340	U	87-86-5	Pentachlorophenol	1700	U
88-75-5	2-Nitrophenol	340	U	85-01-8	Phenanthrene	340	U
105-67-9	2,4-Dimethylphenol	340	U	120-12-7	Anthracene	340	U
65-85-0	Benzoic Acid	1700	U	84-74-2	Di-n-butylphthalate	340	U
111-91-1	bis(2-Chloroethoxy) methane	340	U	206-44-0	Fluoranthene	340	U
120-83-2	2,4-Dichlorophenol	340	U	92-87-5	Benzidine	1700	U
120-82-1	1,2,4-Trichlorobenzene	340	U	129-00-0	Pyrene	340	U
91-20-3	Naphthalene	340	U	85-68-7	Butyl Benzyl Phthalate	340	U
106-47-8	4-Chloroaniline	340	U	91-94-1	3,3'-Dichlorobenzidine	680	U
87-68-3	Hexachlorobutadiene	340	U	56-55-3	Benzo(a)anthracene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U	117-81-7	bis(2-ethylhexyl)phthalate	340	U
91-57-6	2-Methylnaphthalene	340	U	218-01-9	Chrysene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U	117-84-0	Di-n-octyl Phthalate	340	U
88-06-2	2,4,6-Trichlorophenol	340	U	205-99-2	Benzo(b)fluoranthene	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U	207-08-9	Benzo(k)fluoranthene	340	U
91-58-7	2-Chloronaphthalene	340	U	50-32-8	Benzo(a)pyrene	340	U
88-74-4	2-Nitroaniline	1700	U	193-39-5	Indeno(1,2,3-cd)pyrene	340	U
131-11-3	Dimethyl Phthalate	340	U	53-70-3	Dibenz(a,h)anthracene	340	U
208-96-8	Acenaphthylene	340	U	191-24-2	Benzo(g,h,i)perylene	340	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER BLANK

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH051045B22

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	17257-79-3	ETHANONE,1-(3-METHYLOXIRANYL)-	GH051045	244	8[illegible].	J
2	108-88-3	BENZENE,METHYL-	GH051045	268	350.	J
3	589-43-5	HEXANE,2,4-DIMETHYL-	GH051045	273	4[illegible].	J
4	624-29-3	CYCLOHEXANE,1,4-DIMETHYL-,CIS-	GH051045	278	7[illegible].	J
5	15870-10-7	1-HEPTENE,2-METHYL-	GH051045	285	9[illegible].	J
6	111-65-9	OCTANE	GH051045	295	420.	J
7	624-29-3	CYCLOHEXANE,1,4-DIMETHYL-,CIS-	GH051045	301	6[illegible].	J
8	142-92-7	ACETICACID,HEXYLESTER	GH051045	309	3[illegible].	J
9	921-47-1	HEXANE,2,3,4-TRIMETHYL-	GH051045	313	2[illegible].	J
10	1072-05-5	HEPTANE,2,6-DIMETHYL-	GH051045	319	6[illegible].	J
11	123-42-2	2-PENTANONE,4-HYDROXY-4-METHYL-	GH051045	328	820.	J
12	3074-71-3	HEPTANE,2,3-DIMETHYL-	GH051045	341	17[illegible].	J
13	921-47-1	HEXANE,2,3,4-TRIMETHYL-	GH051045	346	25[illegible].	J

33.900 40.00

SPECTROSCOPIST _____

DATE _____

FORM1, PA)

SAMPLE NUMBER BLANK

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH051045B22

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
14	2216-33-3	OCTANE,3-METHYL-	GH051045	352	580.	J
15	6236-88-0	CYCLOHEXANE,1-ETHYL-4-METHYL-,TRANS-	GH051045	366	52.	J
16	111-84-2	NONANE	GH051045	373	75.	J
17	111-46-6	ETHANOL,2,2'-OXYBIS-	GH051045	416	75.	J
18	62016-37-9	OCTANE,2,4,6-TRIMETHYL-	GH051045	762	52.	J
19	629-74-3	1-HEXADECYNE	GH051045	945	420.	J

33.900 40.00

SPECTROSCOPIST _____

DATE _____

FORM1. PA.

QA NOTICE FOR CONTAMINANTS IN ACETONE USED FOR GENERATING LOW LEVEL SOIL S-V/PESTICIDE EXTRACTS

Recent contract modifications employ a 1:1 acetone/methylene chloride solvent system to generate semi-volatile/pesticide extracts from processing soils characterized as low level in concentration. Pesticide grade acetone is recommended in the procedure. While GC/ECD detectable constituents are absent in the solvent system, several contaminants at significant levels are apparent when injected into a GC/MS system following the required concentration procedure. Testing was initiated to eliminate the problem and involved the following:

1) Acetone from a number of vendors (Burdick and Jackson, Fisher, J. T. Baker, and EM-Omnisolv), both pesticide grade and distilled in glass were evaluated.

2) Acetone from all of the vendors was distilled by our laboratory.

To date, the testing program has failed to generate an acceptable quality of acetone, free from contaminants.

Further studies are in process. Several of the solvent producers are aware of the problem and have indicated that independent studies will be conducted.

This notice serves as a data qualifier for the artifacts inherent in the concentrated acetone.

initials _____

date 6/14/85

COMPUCHEM LABS

RIC

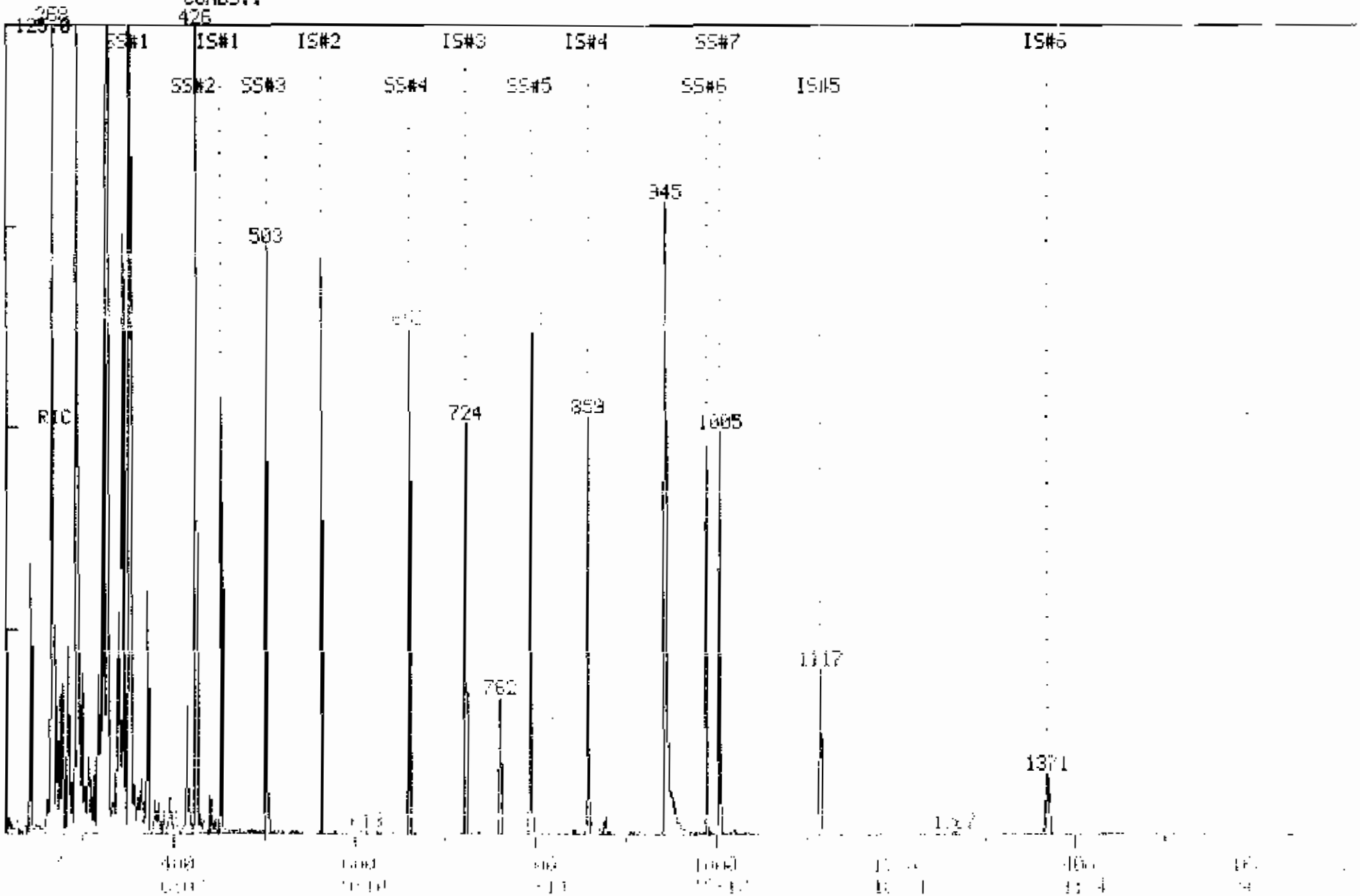
05/24/85 21:10:00

COMPUCHEM DATA: GHUS1045B.2 SCANS 21 TO 1[illegible] 5

OUT OF 21[illegible] TO 1[illegible] 0

SAMPLE: 1 UL CC#S1045 (5-2-85) CASE# GEN TEST EPA BLANK

CONDS.:



COMPUCHEM LABS

RIC COMPUCHEM DATA: GH051045B22 SCANS 1715 TO 18 0

05/24/85 21:10:00 OUT OF 2 5 TO 18 0

SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

CONDS.: 1 951000.

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI1 FILENAME: GH05_045E_2 DATE: 05/24/8[illegible]
SHIFT STD: HG850524B22 TIME: 21:10

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
**** D4-1,4,-DICHLORBENZENE (IS#1)	1870780.	1621660.	15.	PASS
*** D8-NAPHTHALENE (IS#2)	6111670.	5254270.	16.	PASS
*** D10-ACENAPHTHENE (IS#3)	3013790.	2537590.	19.	PASS
*** D10-PHENANTHRENE (IS#4)	4913880.	3984920.	23.	PASS
*** D12-CHRYSENE (IS#5)	2385370.	2062140.	16.	PASS
*** D12-PERYLENE (IS#6)	1994070.	2106750.	-4.	PASS

PROCEDURE: RK
DATA FILE: GH051045B22
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	33	53	8	1	48	SEMI1S1/SEMI1U1
3	3	1	41	28	5	1	70	SEMI1S2/SSMI1U2

81 COMPOUNDS PROCESSED, 13 FOUND

COMPOUND		SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DLTA	PEAKS
1	01	1	-454	454	454	.	.	999	.	152	454	.	1
2	03	1	-725	724	724	.	1	994	.	164	724	.	1
3	02	1	-565	565	565	.	1	982	.	136	565	.	1
4	07	2	-354	354	354	.	.	911	.	112	354	.	.
5	01	2	-245	245	.	.			.	42	.	.	
6	01	3	-427	427	.	.			.	94	.	.	
7	01	4	-435	435	.				.	93	.	.	.
8	01	5	-544	544	.				.	93	.		
9	01	6	-567	567	.	.			.	128	.		
10	01	7	-452	452	.	.			.	146	.	.	
11	01	8	-456	456	.	.			.	146	.	.	
12	01	9	-467	467	.				.	108	.	.	
13	01	10	-472	472	.	.			.	146	.	.	
14	01	11	-477	477	.	.			.	108	.	.	
15	01	12	-481	481	.	.			.	45	481	.	1
16	01	13	-489	489	.	.			.	108	.	.	
17	01	14	-492	492	.	.			.	70	.	.	
18	01	15	-498	498	.	.			.	117	.	.	.
19	01	16	-505	505	.	.			.	77	.		
20	02	2	-525	525	.	.			.	82	.	.	.
21	02	3	-532	532	.	.			.	139	.	.	
22	02	4	-535	535	.	.			.	122	.	.	.
23	02	5	-542	542	.	.			.	122	.	.	.
24	02	6	-544	544	.	.			.	93	.	.	.
25	02	7	-552	552	.	.			.	162	.		
26	02	8	-561	561	.	.			.	180	.	.	.
27	02	9	-567	567	.	.			.	128	.	.	
28	02	10	-573	573	.	.			.	127	.	.	.
29	02	11	-582	582	.	.			.	225	.	.	
30	02	12	-535	535	.	.			.	107	.	.	
31	02	13	-628	628	.	.			.	142	.	.	.
32	03	2	-649	649	.	.			.	237	.		
33	03	3	-655	655	.	.			.	196	.	.	
34	03	4	-655	655	.	.			.	196	.	.	
35	03	5	-672	672	.	.			.	162	.	.	.
36	03	6	-683	682	.	.			.	65	.	.	
37	03	7	-702	702	.	.			.	163	.	.	
38	[illegible]												
39	03	9	-721	720	.	.			.	138	.	.	.
40	03	10	-726	727	.	.			.	153	.	.	.
41	03	11	-730	729	.	.			.	194	.	.	
42	[illegible]												
43	03	13	-742	741	.	.			.	168	.	.	.
44	03	14	-744	743	.	.			.	64	.	.	
45	03	15	-744	743	.	.			.	165	.	.	.
46	03	16	-766	765	.	.			.	149	765	.	1
47	[illegible]												
48	[illegible]												

50	07	3	-426	426	426	.	1	1000	.	99	426	.
51	07	4	-503	503	503	.	1	997	.	62	503	.
52	07	5	-663	663	662	-1	1	974	.	172	662	.
53	07	6	-797	796	797	1	1	997	.	141	797	.
54	04	1	-860	859	859	.	1	996	.	188	859	.
55	05	1	-1118	1117	1117	.	1	990	.	240	1117	.
56	06	1	-1373	1371	1371	.	1	995	.	264	1371	.
57	04	2	-781	781	.	.	.	.	.	198	.	.
58	04	3	-784	784	.	.	.	.	.	169	.	.
59	04	4	-817	817	.	.	.	.	.	248	.	.
60	04	5	-831	831	.	.	.	.	.	284	.	.
61	04	6	-847	847	.	.	.	.	.	266	.	.
62	04	7	-862	862	.	.	.	.	.	178	861	.
63	04	8	-866	866	.	.	.	.	.	178	.	.
64	04	9	-914	914	.	.	.	.	.	149	914	.
65	04	10	-972	971	.	.	.	.	.	202	971	.
66	05	2	.	.	.	.	.	.	.	184	.	.
67	05	3	-993	992	.	.	.	.	.	202	991	.
68	05	4	-1052	1051	.	.	.	.	.	149	.	.
69	05	5	-1111	1110	.	.	.	.	.	252	.	.
70	05	6	-1116	1115	.	.	.	.	.	228	1117	.
71	05	7	-1119	1118	.	.	.	.	.	149	1118	.
72	05	8	-1121	1120	.	.	.	.	.	228	1119	.
73	06	2	-1212	1211	.	.	.	.	.	149	.	.
74	06	3	-1290	1289	.	.	.	.	.	252	1292	.
75	06	4	-1295	1294	.	.	.	.	.	252	1292	.
76	06	5	-1360	1358	.	.	.	.	.	252	1356	.
77	06	6	-1692	1689	.	.	.	.	.	276	.	.
78	06	7	-1701	1698	.	.	.	.	.	278	.	.
79	06	8	-1790	1787	.	.	.	.	.	276	.	.
80	07	7	-1005	1004	1005	1	1	998	.	244	1005	.
81	08	2	-991	990	991	1	1	999	.	212	991	.

QUANTITATION REPORT FILE: GH051045B22

DATA: GH051045B22.TI
05/04/85 21:10:00
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK
[illegible]
SUBMITTED BY: 22 ANALYST: B02

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4,-DICHLORBENZENE (IS#1)
3	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
6	610 PHENOL (Q1#3) <108-95-2>
7	473 ANILINE (Q1#4) <62-53-3>
8	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
9	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
10	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
11	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
12	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
13	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
14	620 2-METHYLPHENOL (Q1#11) <95-48-7>
15	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
16	622 4-METHYLPHENOL (Q1#13) <106-44-5>
17	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
18	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
19	440 NITROBENZENE (Q1#16) <98-95-3>
20	*** D8-NAPHTHALENE (IS#2)
21	438 ISOPHORONE (Q2#2) <78-59-1>
22	606 2-NITROPHENOL (Q2#3) <88-75-5>
23	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
24	625 BENZOIC ACID (Q2#5) <65-85-0>
25	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
26	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
27	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
28	439 NAPHTHALENE (Q2#9) <91-20-3>
29	475 4-CHLOROANILINE (Q2#10) <106-47-8>
30	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
31	609 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
32	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
33	*** D10-ACENAPHTHENE (IS#3)
34	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
35	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
36	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
37	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
38	478 2-NITROANILINE (Q3#6) <88-74-4>
39	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
40	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
41	479 3-NITROANILINE (Q3#9) <99-09-2>
42	401 ACENAPHTHENE (Q3#10) <83-32-9>
43	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
44	[illegible]
45	476 DIBENZOFURAN (Q3#13) <132-64-9>
46	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
47	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
48	[illegible]
49	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
4F	*** D10-PHENANTHRENE (IS#4)
5[illegible]	404 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <[illegible]-52-1>
51	443 N-NITROSODIPHENYLAHINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <[illegible]-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	409 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
[illegible]	404 BENZIDINE (Q5#2) <92-87-5>
5[illegible]	445 PYRENE (Q5#3) <129-00-0>
5[illegible]	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-[illegible]-7>
5[illegible]	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-[illegible]-1>
[illegible]	-05 BENZO(A)ANTHRACENE (Q5#6) <56-55-[illegible]>
5[illegible]	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
[illegible]	-16 CHRYSENE (Q5#8) <[illegible]16-01-9>
[illegible]	*** D12-PERYLENE (IS#6)
6[illegible]	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-[illegible]->
6[illegible]	407 BENZO(B)FLUORANTHENE (Q6#3) <205-[illegible]-[illegible]>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-[illegible]-9>
7[illegible]	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <1[illegible]-39-5>
73	-19 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-[illegible]-[illegible]>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
[illegible]	### 2-FLUOROPHENOL (SS#1)
[illegible]	### D5-PHENOL (SS#2)
7[illegible]	### D5-NITROBENZENE (SS#3)
[illegible]	### 2-FLUOROBIPHENYL (SS#4)
[illegible]	### 2,4,6-TRIBROHOPHENOL (SS#5)
[illegible]	### D14-TERPHENYL (SS#7)
[illegible]	### D10 PYRENE (SS#8)

NO	R/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
	152	454	6:54	1	1.000	A BB	[illegible]	40.000 NG	4.54
[illegible]	42	NOT FOUND							
[illegible]	94	NOT FOUND							
[illegible]	93	NOT FOUND							
[illegible]	93	NOT FOUND							
[illegible]	128	NOT FOUND							
7	146	NOT FOUND							
[illegible]	146	NOT FOUND							
[illegible]	108	NOT FOUND							
[illegible]	146	NOT FOUND							
11	108	NOT FOUND							
[illegible]	45	401	7:31	1	1.059	A*VB	[illegible]	0.037 NG	0.00
13	108	NOT FOUND							
[illegible]	[illegible]	NOT FOUND							
15	117	NOT FOUND							
16	77	NOT FOUND							
[illegible]	134	565	8:38	17	1.000	A BB	[illegible]	40.000 NG	4.56
[illegible]	82	NOT FOUND							
19	139	NOT FOUND							

NO	M/E	SCAN	TIME							
[illegible]	122	NOT FOUND								
[illegible]	122	NOT FOUND								
[illegible]	93	NOT FOUND								
[illegible]	162	NOT FOUND								
[illegible]	180	NOT FOUND								
[illegible]	128	NOT FOUND								
[illegible]	127	NOT FOUND								
[illegible]	225	NOT FOUND								
[illegible]	107	NOT FOUND								
[illegible]	142	NOT FOUND								
[illegible]	164	724	11:04	30	1.000	A BB	[illegible]13790.	40.000	NG	4.56
[illegible]	237	NOT FOUND.								
[illegible]	196	NOT FOUND								
[illegible]	196	NOT FOUND								
[illegible]	162	NOT FOUND								
[illegible]	65	NOT FOUND								
[illegible]	163	NOT FOUND								
[illegible]	152	NOT FOUND								
[illegible]	138	NOT FOUND								
[illegible]	153	NOT FOUND								
[illegible]	184	NOT FOUND								
[illegible]	139	NOT FOUND								
[illegible]	168	NOT FOUND								
[illegible]	89	NOT FOUND								
[illegible]	165	NOT FOUND								
[illegible]	149	765	11:42	30	1.057	A BB	[illegible]152.	0.259	NG	0.03
[illegible]	204	NOT FOUND								
[illegible]	166	NOT FOUND								
[illegible]	138	NOT FOUND								
[illegible]	188	859	13:06	49	1.000	A BV	[illegible]13590.	40.000	NG	4.56
[illegible]	198	NOT FOUND								
[illegible]	169	NOT FOUND								
[illegible]	248	NOT FOUND								
[illegible]	284	NOT FOUND								
[illegible]	166	NOT FOUND								
[illegible]	178	861	13:10	49	1.002	A*BB	1728.	0.013	NG	0.00
[illegible]	178	NOT FOUND								
[illegible]	149	914	13:58	49	1.064	A BB	[illegible]2726.	0.260	NG	0.03
[illegible]	202	971	14:51	49	1.130	A BB	[illegible]384.	0.033	NG	0.00
[illegible]	240	1117	17:04	59	1.000	A BV	2385370.	40.000	NG	4.56
[illegible]	184	NOT FOUND								
[illegible]	202	991	15:09	59	0.887	A BB	7178	0.069	NG	0.01
[illegible]	149	NOT FOUND								
[illegible]	252	NOT FOUND								
[illegible]	228	1117	17:04	59	1.000	A*BV	7906	0.110	NG	0.01
[illegible]	149	1118	17:05	59	1.001	A BB	70848.	1.053	NG	0.12
[illegible]	228	1119	17:06	59	1.002	A*VB	7744.	0.116	NG	0.01
[illegible]	264	1371	20:57	67	1.000	A BV	1994070.	40.000	NG	4.56
[illegible]	149	NOT FOUND								
[illegible]	252	1292	19:45	67	0.942	A BB	2720.	0.043	NG	0.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	252	1356	20:44	67	0.989	A BB	[illegible]24:6.	0.047	NG	0.01
[illegible]	276	NOT FOUND								
[illegible]	278	NOT FOUND								
[illegible]	[illegible]	[illegible]								
[illegible]	112	354	5:25	1	0.780	A BV	6598230.	89.312	NG	10.19

PK	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	99	426	6:31	1	0.938	A BV	[illegible]	99.675	NG	11.37
2	82	503	7:41	17	0.890	A BV	[illegible]	48.858	NG	5.57
3	172	662	10:07	30	0.914	A BB	[illegible]	48.263	NG	5.51
4	241	797	12:11	30	1.101	A BB	[illegible]	107.218	NG	12.23
5	244	1005	15:22	59	0.900	A VV	[illegible]	61.079	NG	6.97
6	212	991	15:09	59	0.887	A VV	[illegible]	180.134	NG	20.55

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:45		10.000			50.00		2.446	
3	6:32		10.000			50.00		1.956	
4	6:39		10.000			50.00		3.213	
5	8:19		10.000			50.00		1.768	
6	8:40		10.000			50.00		3.546	
7	6:55		10.000			50.00		1.541	
8	6:58		10.000			50.00		1.583	
9	7:08		10.000			50.00		0.949	
10	7:13		10.000			50.00		1.485	
11	7:17		10.000			50.00		1.232	
12	7:21	1.00	10.000	0.11	0.04	[illegible]	2.003	4.339	0.00
13	7:28		10.000			50.00		1.352	
14	7:31		10.000			50.00		1.609	
15	7:37		10.000			50.00		0.852	
16	7:43		10.000			50.00		2.137	
17	8:38	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:02		10.000			50.00		1.132	
19	8:03		10.000			50.00		0.255	
20	8:11		10.000			50.00		0.364	
21	8:17		50.000			50.00		0.266	
22	8:19		10.000			50.00		0.546	
23	8:27		10.000			50.00		0.314	
24	8:35		10.000			50.00		0.365	
25	8:40		10.000			50.00		1.095	
26	8:46		10.000			50.00		0.130	
27	8:55		10.000			50.00		0.214	
28	8:11		10.000			50.00		0.448	
29	9:36		10.000			50.00		0.646	
30	9:03	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	9:55		10.000			50.00		0.381	
32	10:01		10.000			100.00		0.422	
33	10:01		100.000			100.00		0.422	
34	10:14		10.000			50.00		1.222	
35	10:26		50.000			50.00		0.639	
36	10:44		10.000			50.00		1.419	
37	10:52		10.000			50.00		1.683	
38	11:01		50.000			50.00		0.041	
39	11:08		10.000			50.00		1.211	
40	11:10		50.000			50.00		0.113	
41	11:21		50.000			50.00		0.759	
42	11:21		10.000			50.00		1.645	
[illegible]									
44	11:22		10.000			50.00		0.380	
45	11:43	1.00	10.000	0.11	0.26	50.00	0.007	1.445	0.01
46	11:49		10.000			50.00		0.608	
47	11:56		10.000			50.00		1.262	
48	11:53		50.000			50.00		0.129	

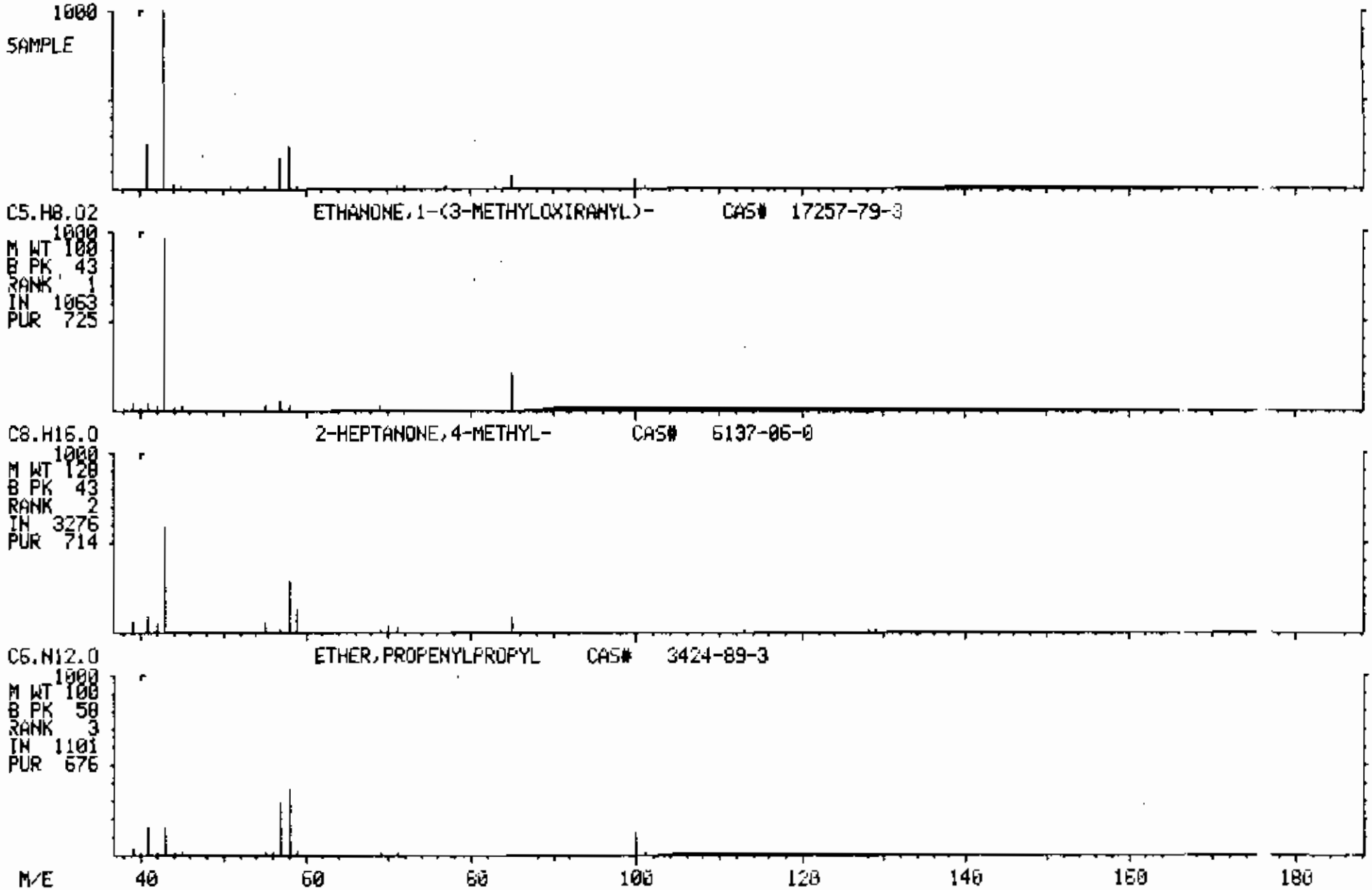
	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
[illegible]	13:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
[illegible]	11:56		50.000			[illegible]		0.110	
[illegible]	11:59		10.000			50.00		0.388	
[illegible]	12:29		10.000			[illegible]		0.232	
[illegible]	12:42		10.000			[illegible]		0.304	
[illegible]	12:57		50.000			[illegible]		0.148	
[illegible]	13:11	1.00	10.000	0.10	0.01	[illegible]	0.000	1.086	0.00
[illegible]	13:14		10.000			50.00		0.915	
[illegible]	13:58	1.00	10.000	0.11	0.26	[illegible]	0.007	1.327	0.01
[illegible]	14:51	1.00	10.000	0.11	0.03	50.00	0.001	0.845	0.00
[illegible]	17:05	1.00	10.000	0.10	40.00	[illegible]	1.000	1.000	1.00
[illegible]	15:13		50.000			50.00		0.043	
[illegible]	15:11	1.00	10.000	0.09	0.07	50.00	0.002	1.733	0.00
[illegible]	16:05		10.000			[illegible]		0.653	
[illegible]	16:59		20.000			50.00		0.116	
[illegible]	17:04	1.00	10.000	0.10	0.11	[illegible]	0.003	1.212	0.00
[illegible]	17:06	1.00	10.000	0.10	1.05	[illegible]	0.024	1.129	0.02
[illegible]	17:02	1.00	10.000	0.10	0.12	[illegible]	0.003	1.121	0.00
[illegible]	20:59	1.00	10.000	0.10	40.00	[illegible]	1.000	1.000	1.00
[illegible]	18:32		10.000			[illegible]		1.747	
[illegible]	19:43	1.00	10.000	0.09	0.04	[illegible]	0.001	1.255	0.00
[illegible]	19:48	1.00	10.000	0.09	0.06	[illegible]	0.001	0.965	0.00
[illegible]	20:47	1.00	10.000	0.10	0.05	[illegible]	0.001	1.066	0.00
[illegible]	15:52		10.000			50.00		1.144	
[illegible]	16:00		10.000			[illegible]		1.117	
[illegible]	17:22		10.000			[illegible]		1.133	
[illegible]	5:25	1.00	0.742	1.05	89.31	[illegible]	2.822	1.580	1.79
[illegible]	6:31	1.00	0.948	0.99	99.67	[illegible]	3.780	1.896	1.99
[illegible]	7:41	1.00	0.875	1.02	48.86	[illegible]	0.607	0.622	0.98
[illegible]	10:08	1.00	0.906	1.01	48.26	[illegible]	1.319	1.367	0.97
[illegible]	12:11	1.00	1.118	0.98	107.22	50.00	0.228	0.106	2.14
[illegible]	15:22	1.00	0.907	0.99	61.08	50.00	1.387	1.135	1.22
[illegible]	15:09	1.00	10.000	0.09	180.13	160.00	0.528	0.469	1.13

COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:18:00 + 3:44
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GN051045B22 # 244
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 54[illegible]440.

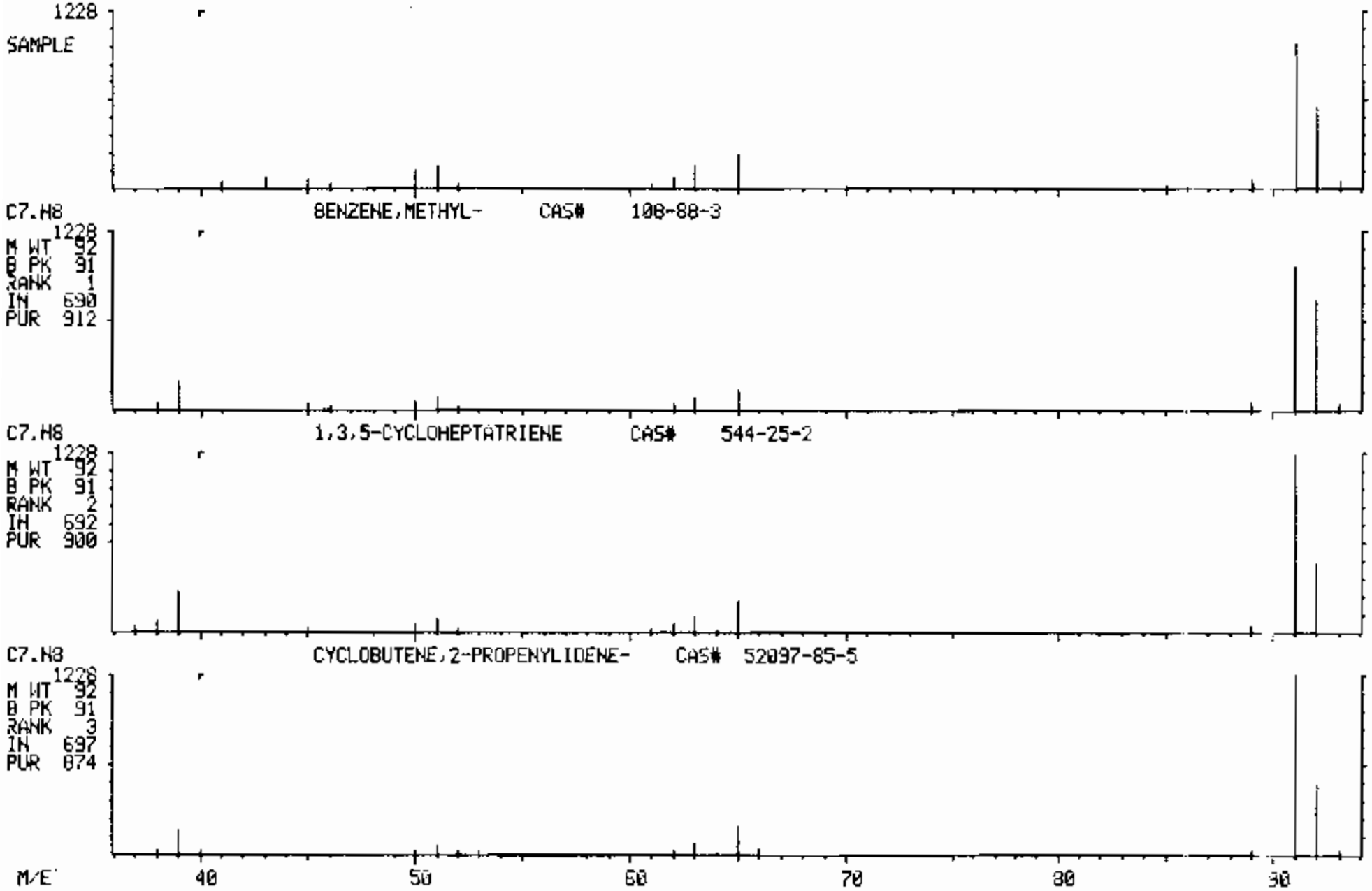


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:06
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045822 # 268
ENHANCED (10B 2H 0T)

BASE M/E: 91
RIC: 1676800.

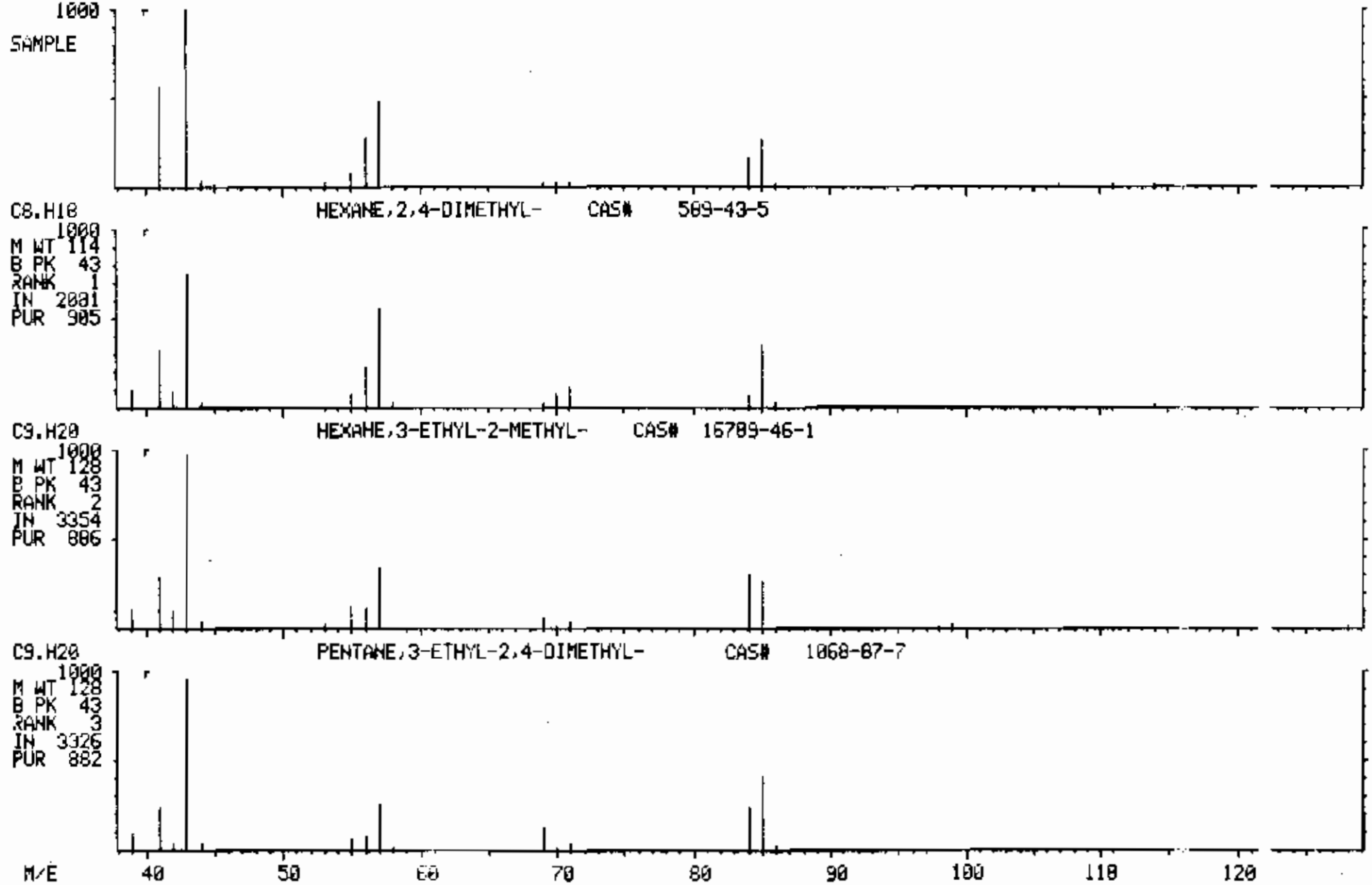


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:10
SAMPLE: 1 UL CC#51845 (5-2-85) CASE# GEH TEST EPA BLANK

DATA: GH051045B22 # 273
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 2273270.

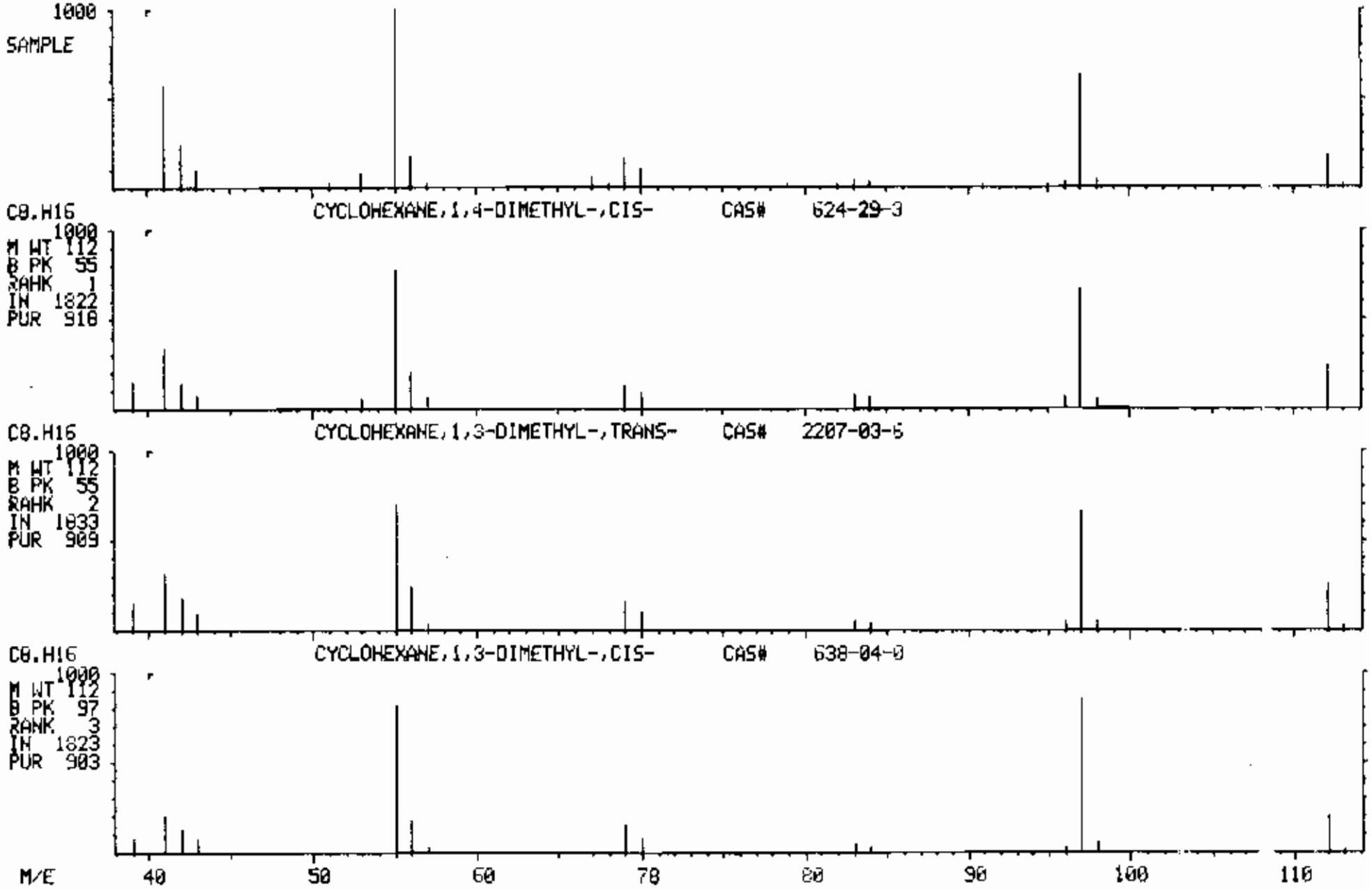


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:15
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 278
ENHANCED (10B 2N 0T)

BASE M/E: 55
RIC: 2945020.

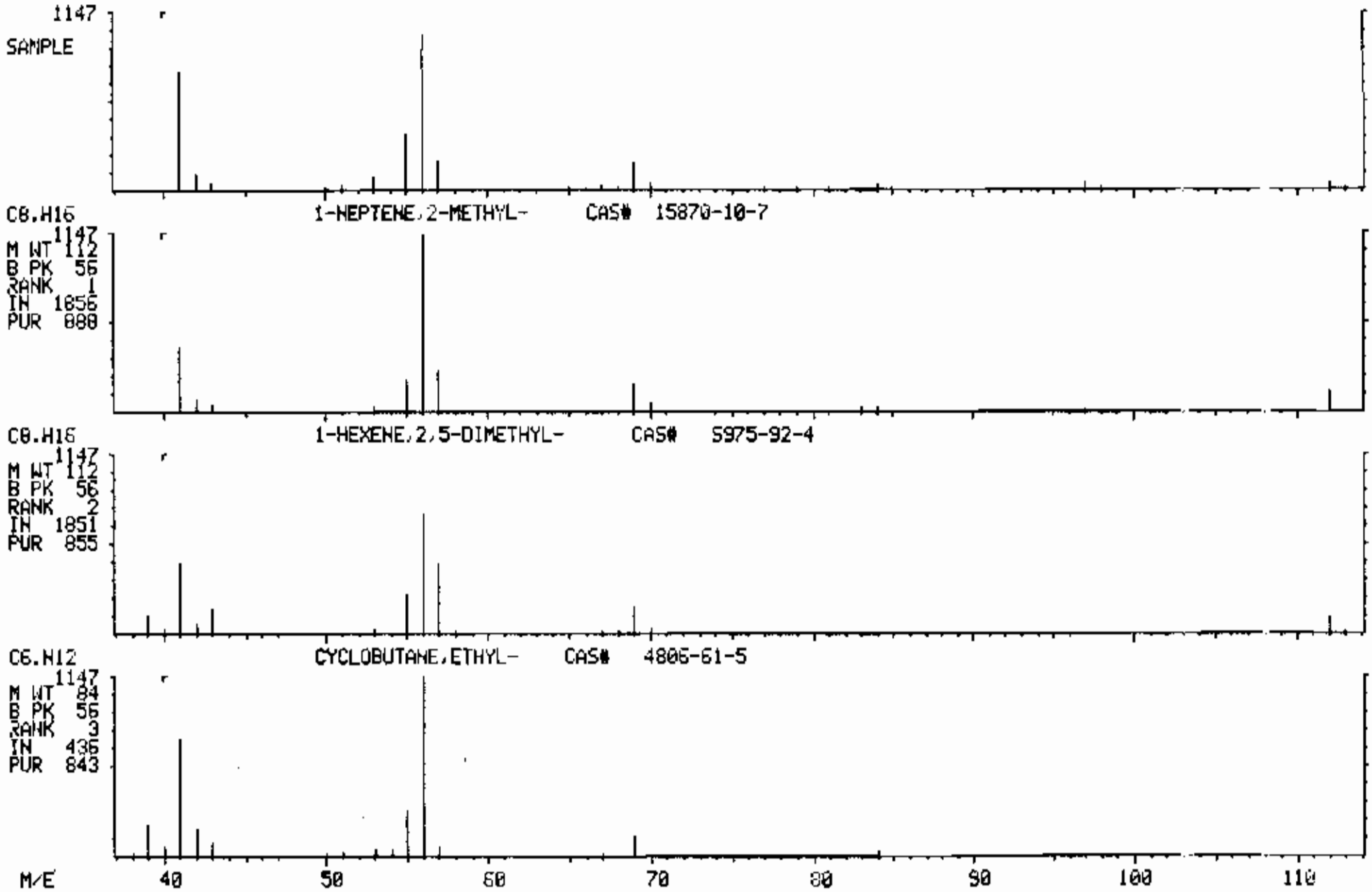


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:21
SAMPLE: 1 UL CC#51845 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 285
ENHANCED (100 2N 0T)

BASE M/E: 56
RIC: 3280890.

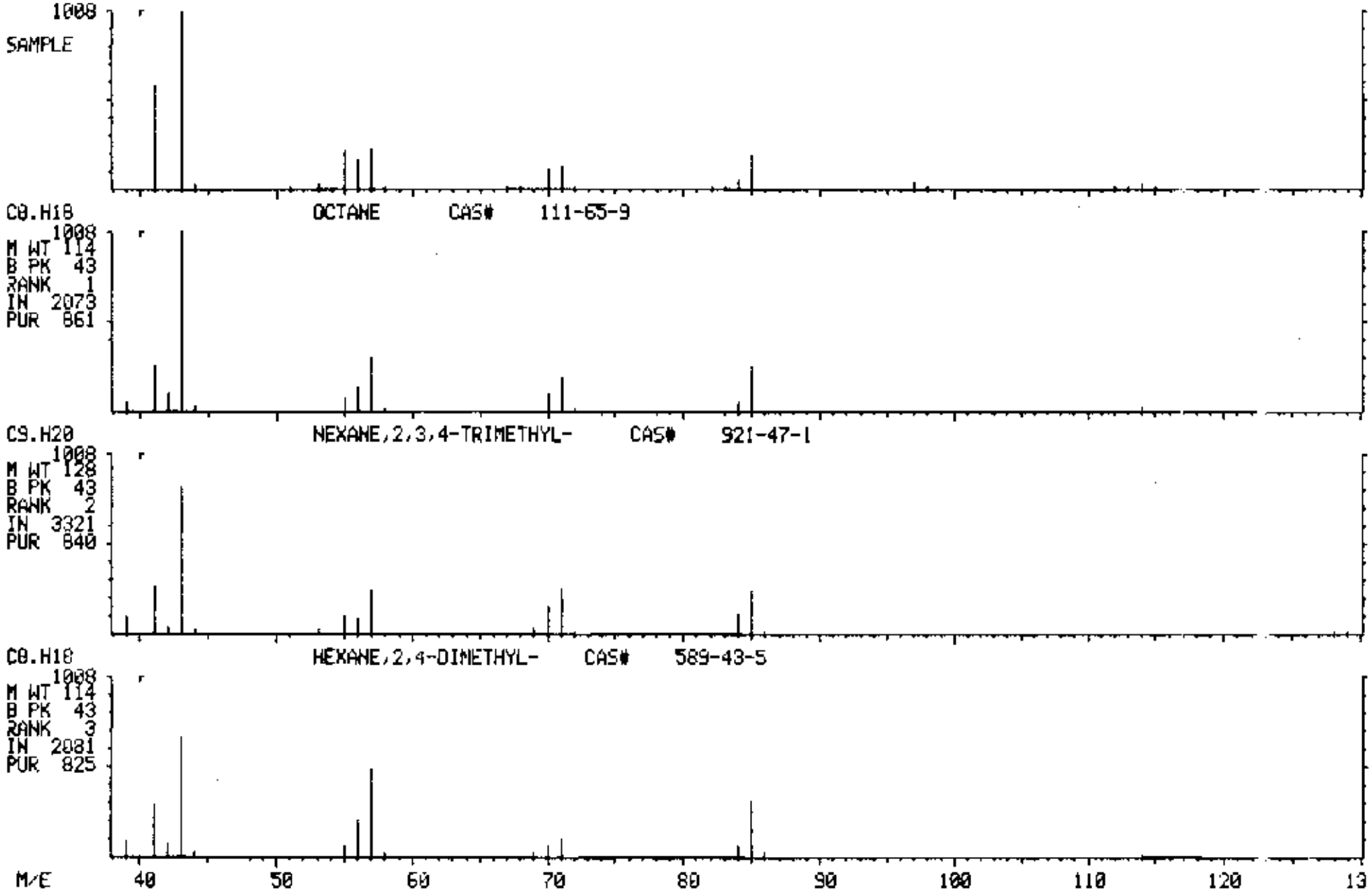


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:31
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045822 # 295
ENHANCED (10Ø 2H ØT)

BASE M/E: 43
RIC: 1678Ø800.

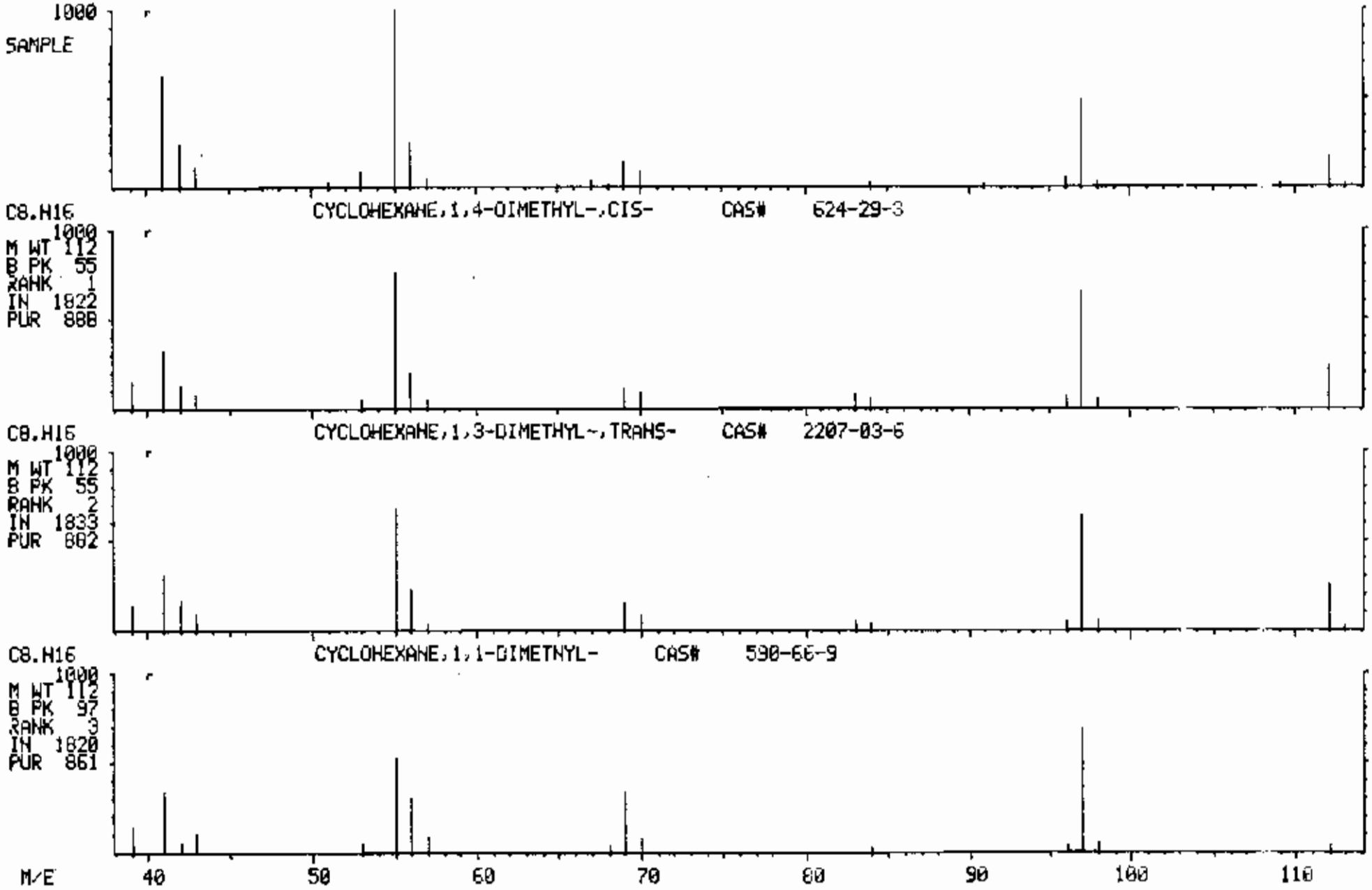


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:36
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045822 # 301
ENHANCED (100 2N 0T)

BASE M/E: 55
RIC: 298590.

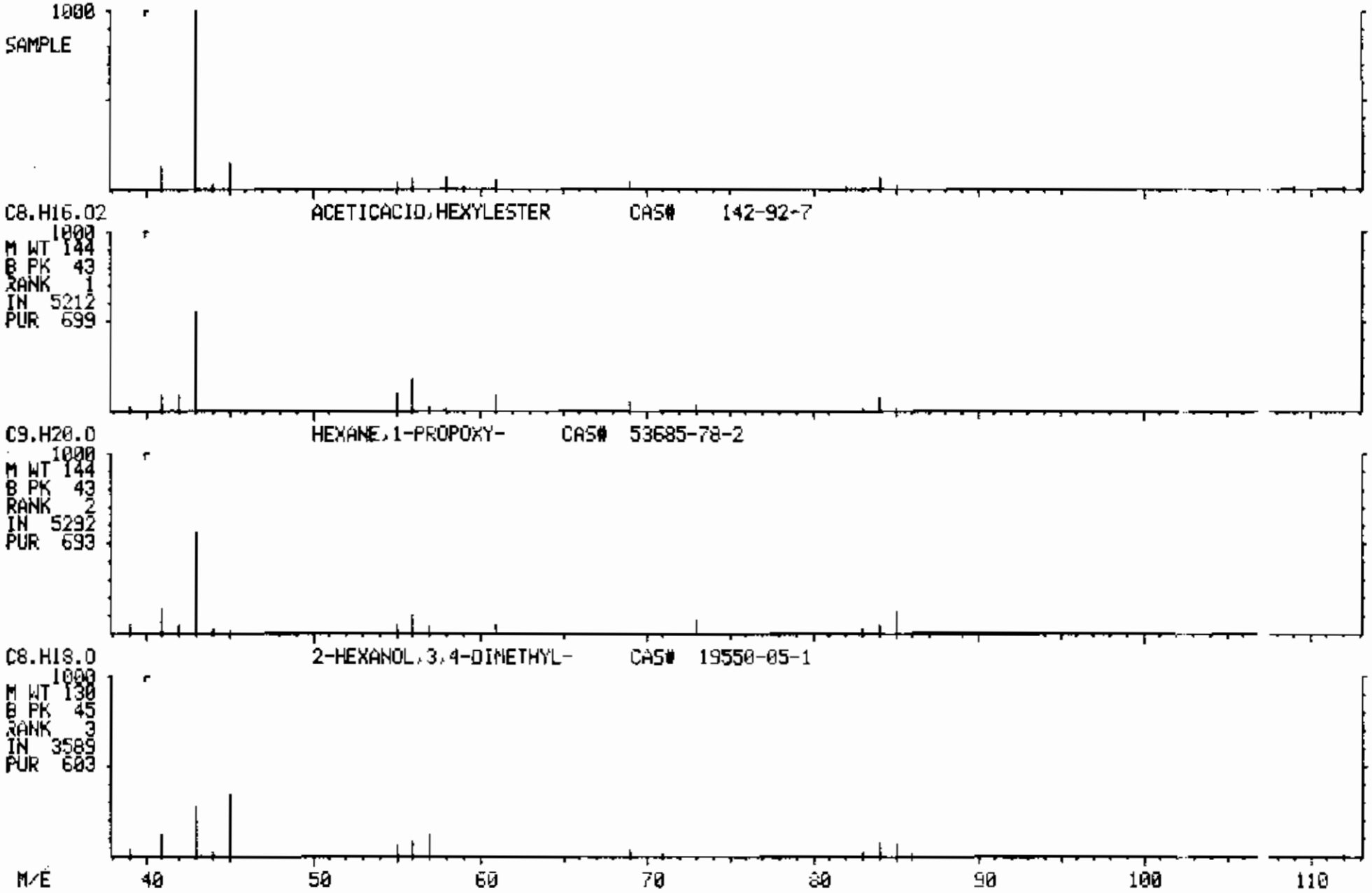


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:42
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 308
ENHANCED (100 2N 0T)

BASE M/E: 43
RIC: 1352630.



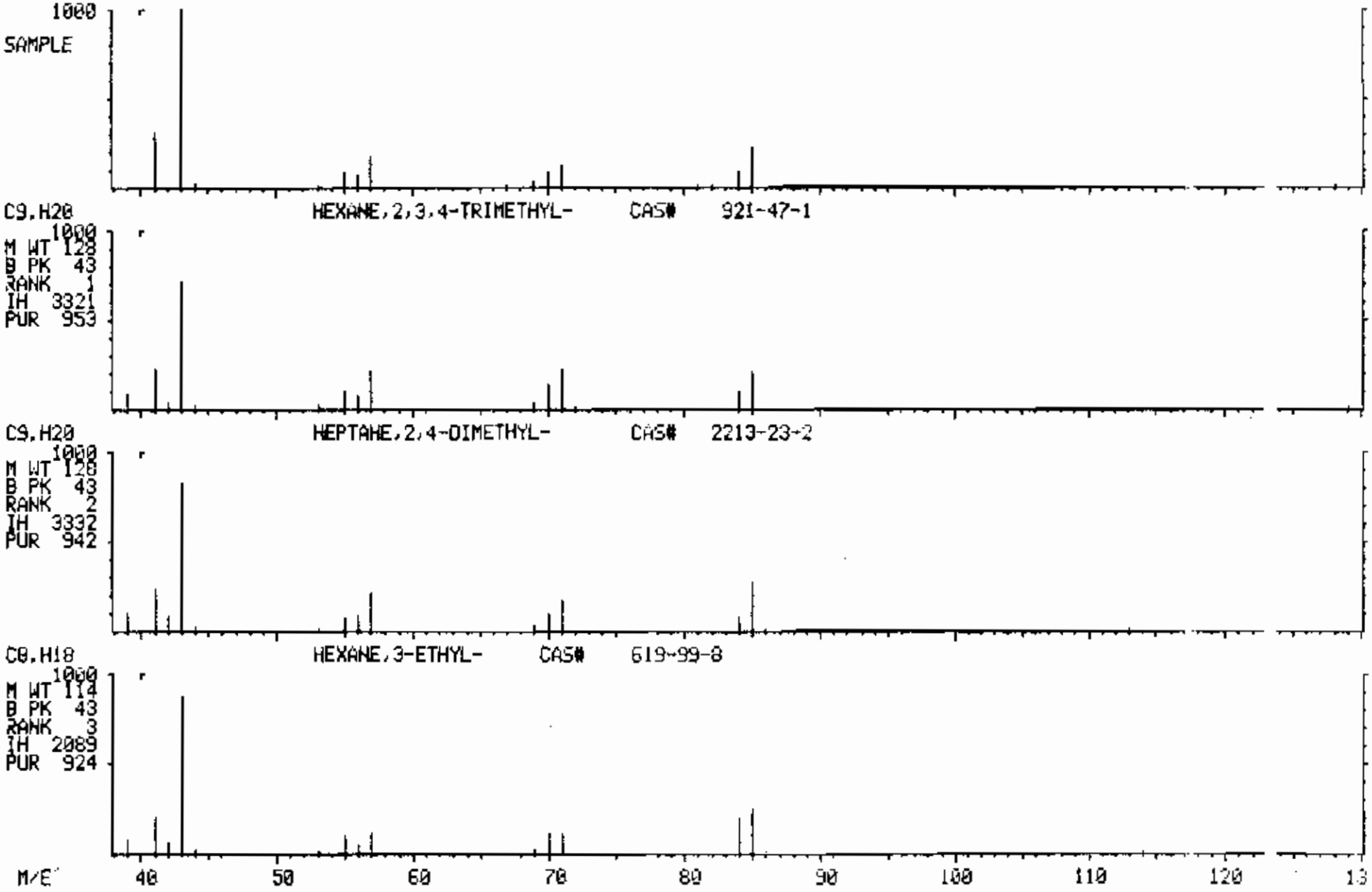
COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:47

DATA: GH051045B22 # 313
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 101:300.

SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

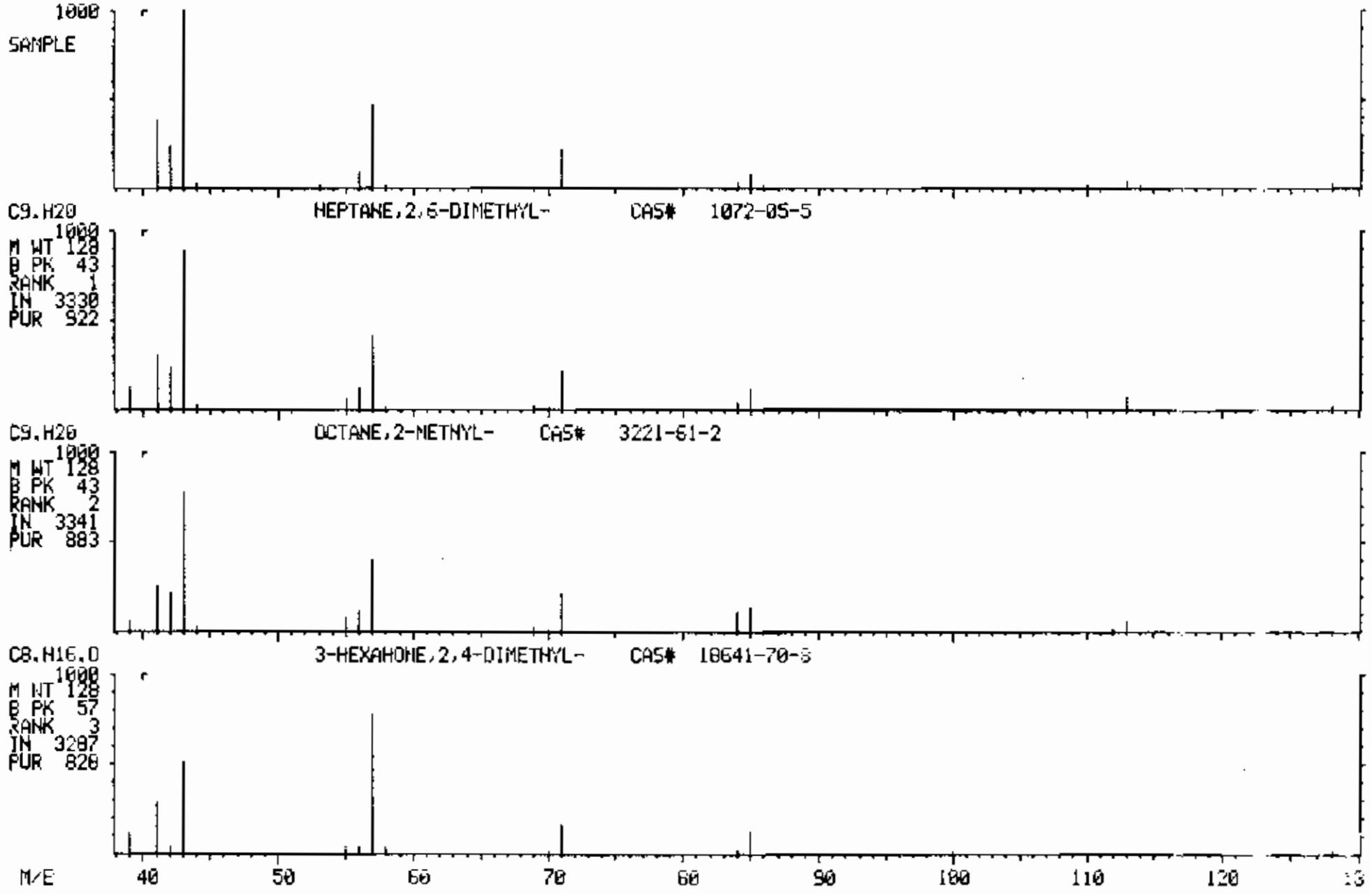


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 4:59
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 319
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 247070.

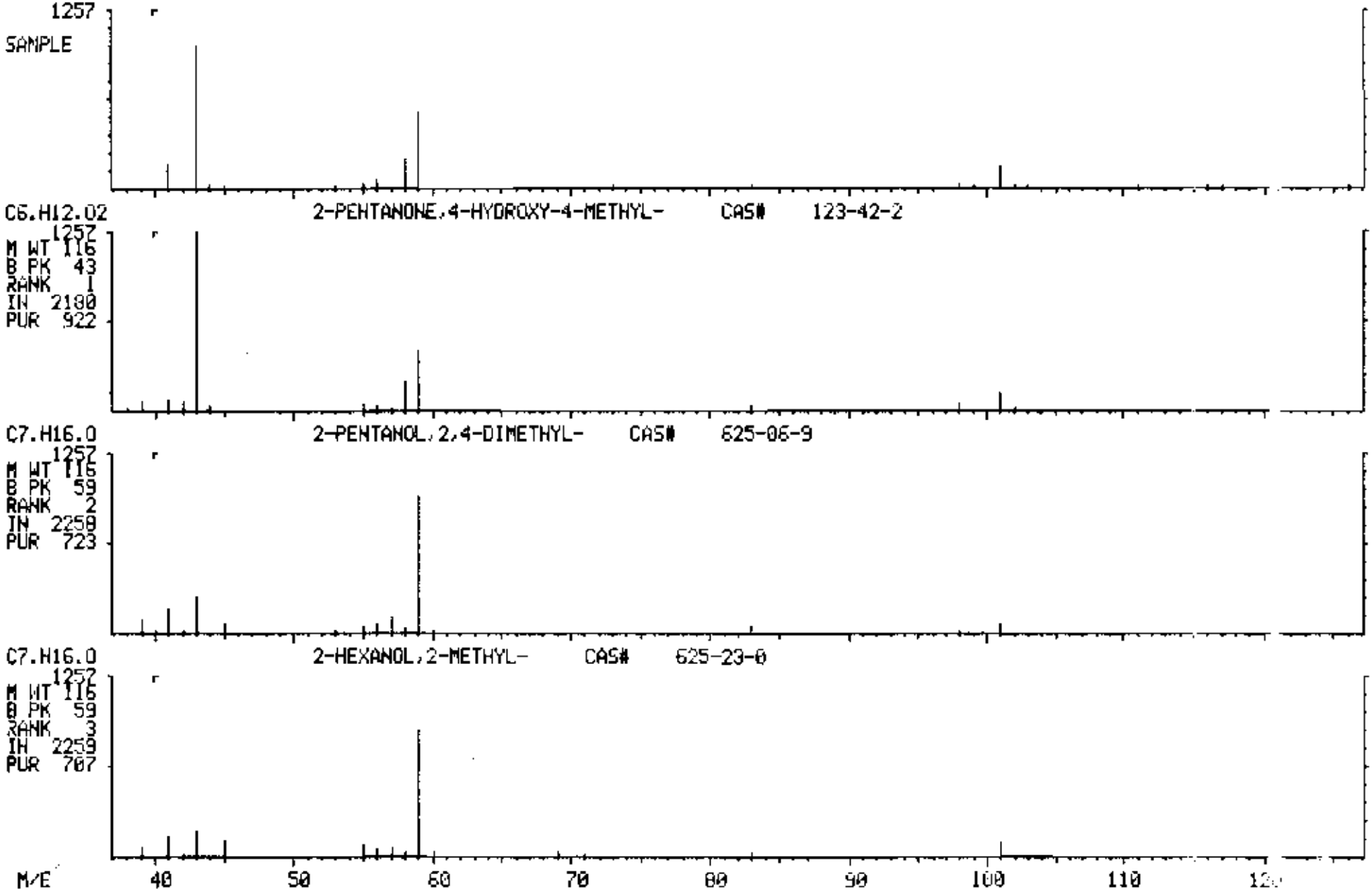


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 5:01
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEH TEST EPA BLANK

DATA: GH051045B22 # 328
ENHANCED (10B 2H 0T)

BASE M/E: 43
RIC: 16760300.

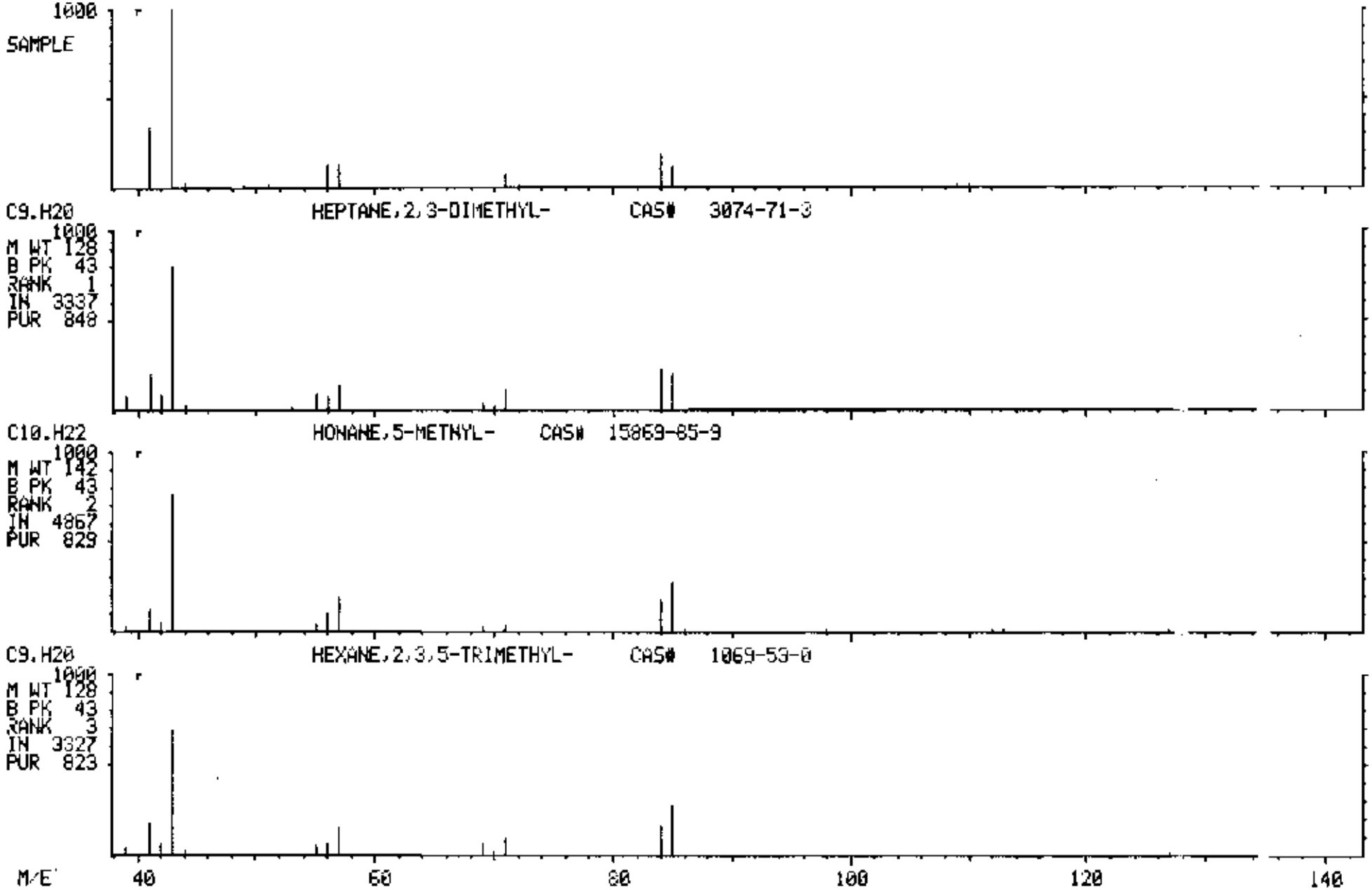


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 5:13
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 341
ENHANCED (100 2N 0T)

BASE M/E: 43
RIC: 32+3120.



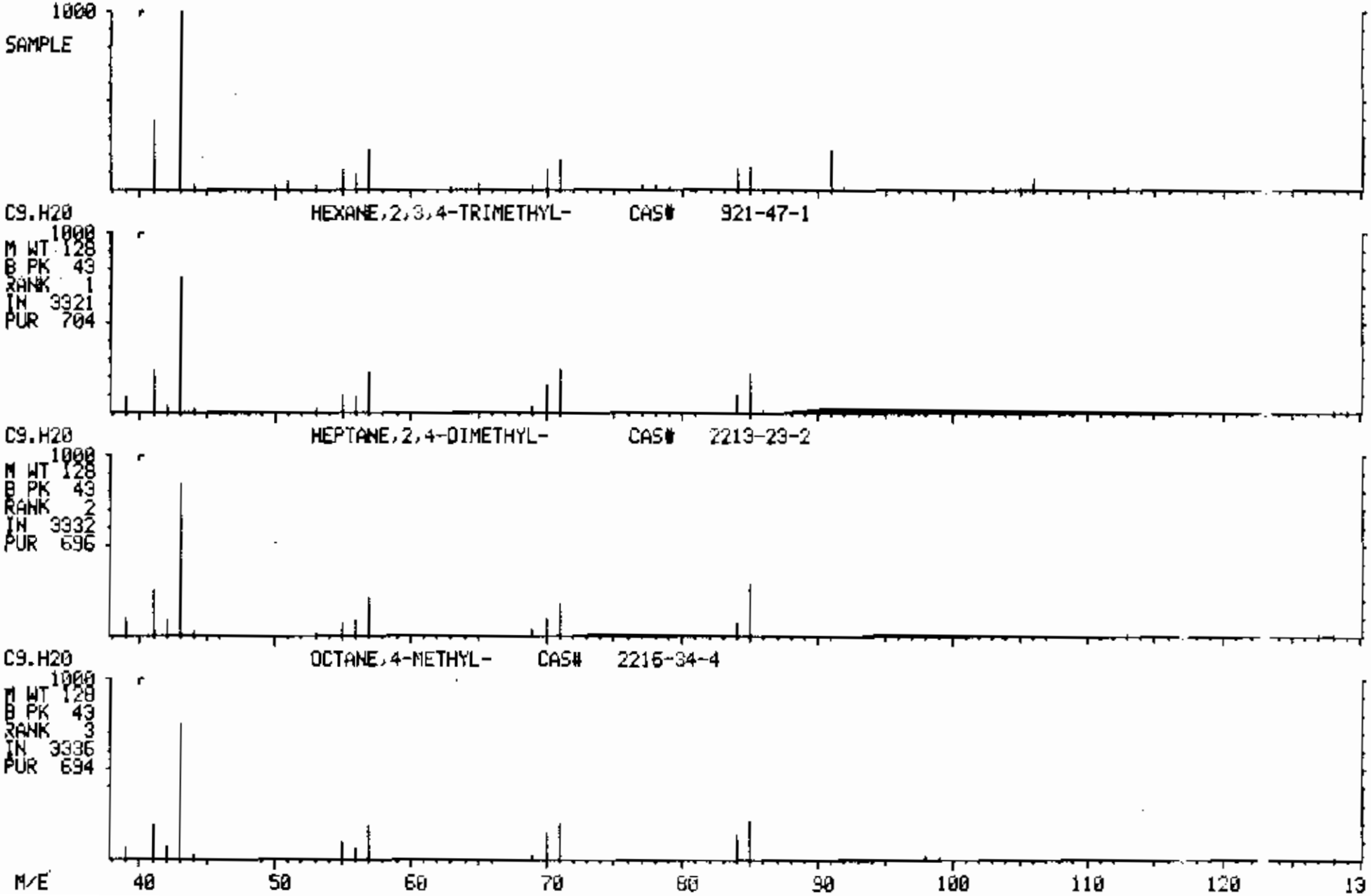
COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 5:17

DATA: GH051045B22 # 346
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 1194.3900.

SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEH TEST EPA BLANK

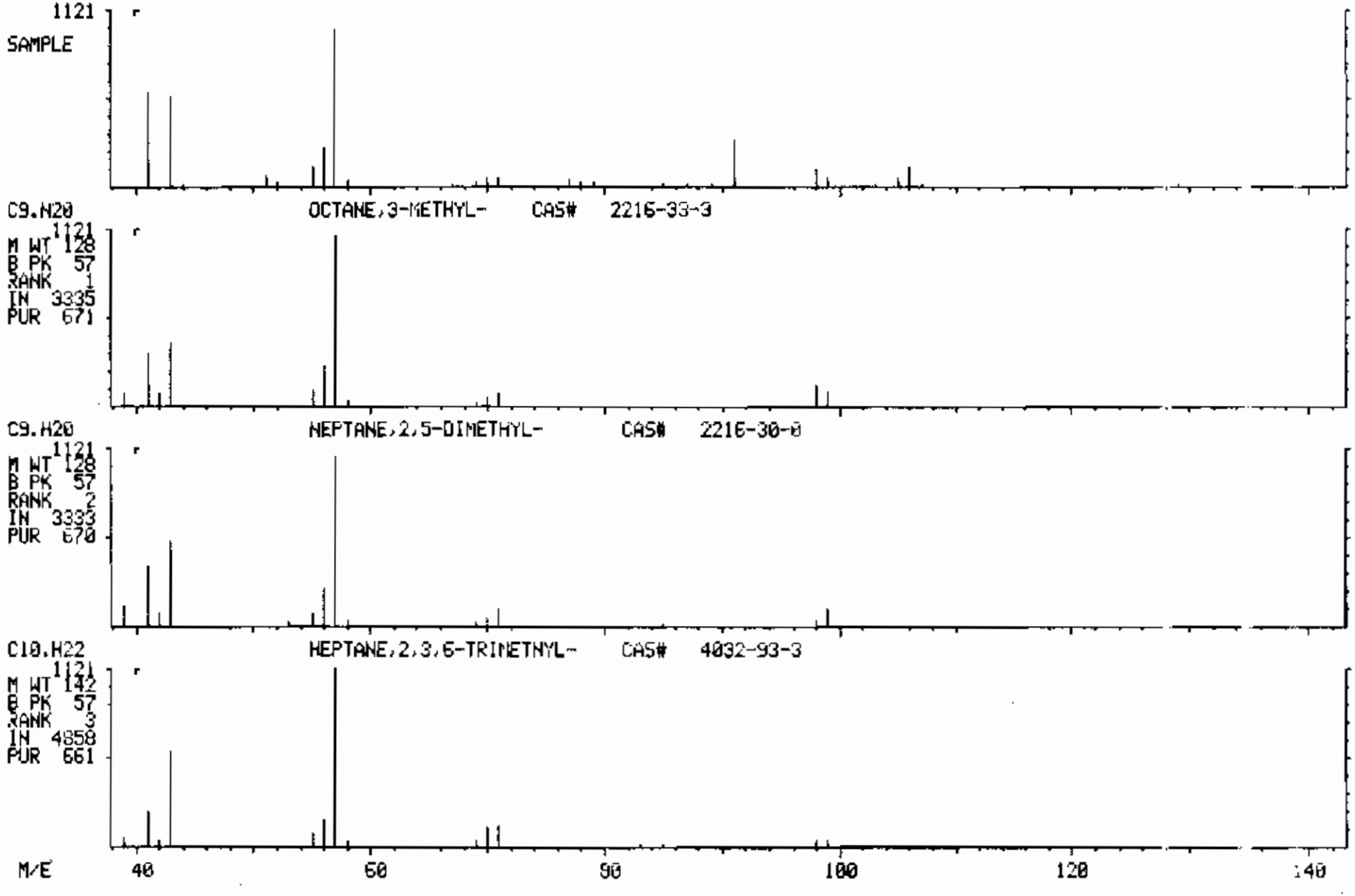


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 5:23
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 352
ENHANCED (10B 2N 0T)

BASE M/E: 57
RIC: 16760800.



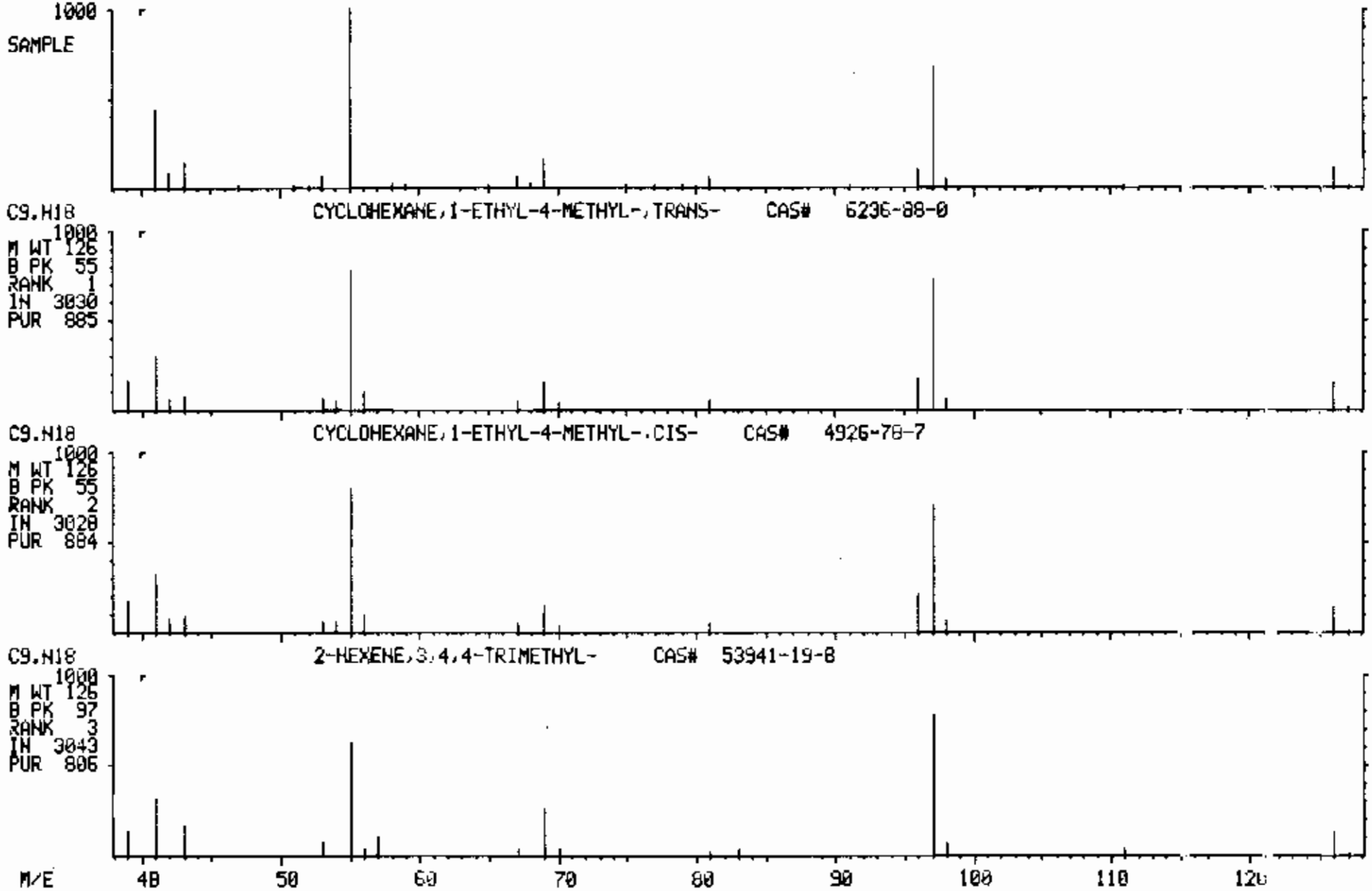
COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 5:36

DATA: GH051045B22 # 366
ENHANCED (10B 2N 0T)

BASE M/E: 55
RIC: 94079.

SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

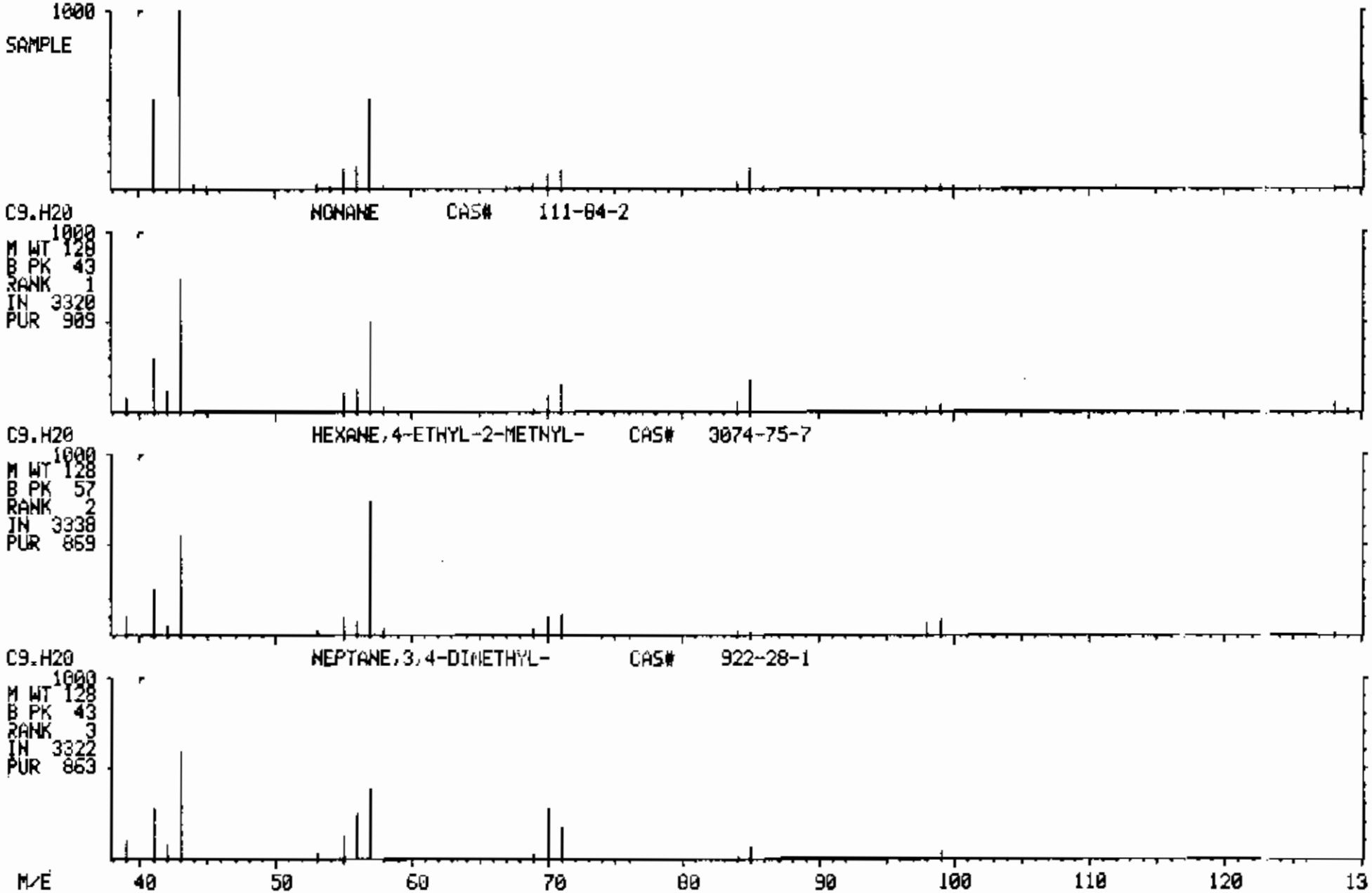


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 5:42
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 373
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 4981500.

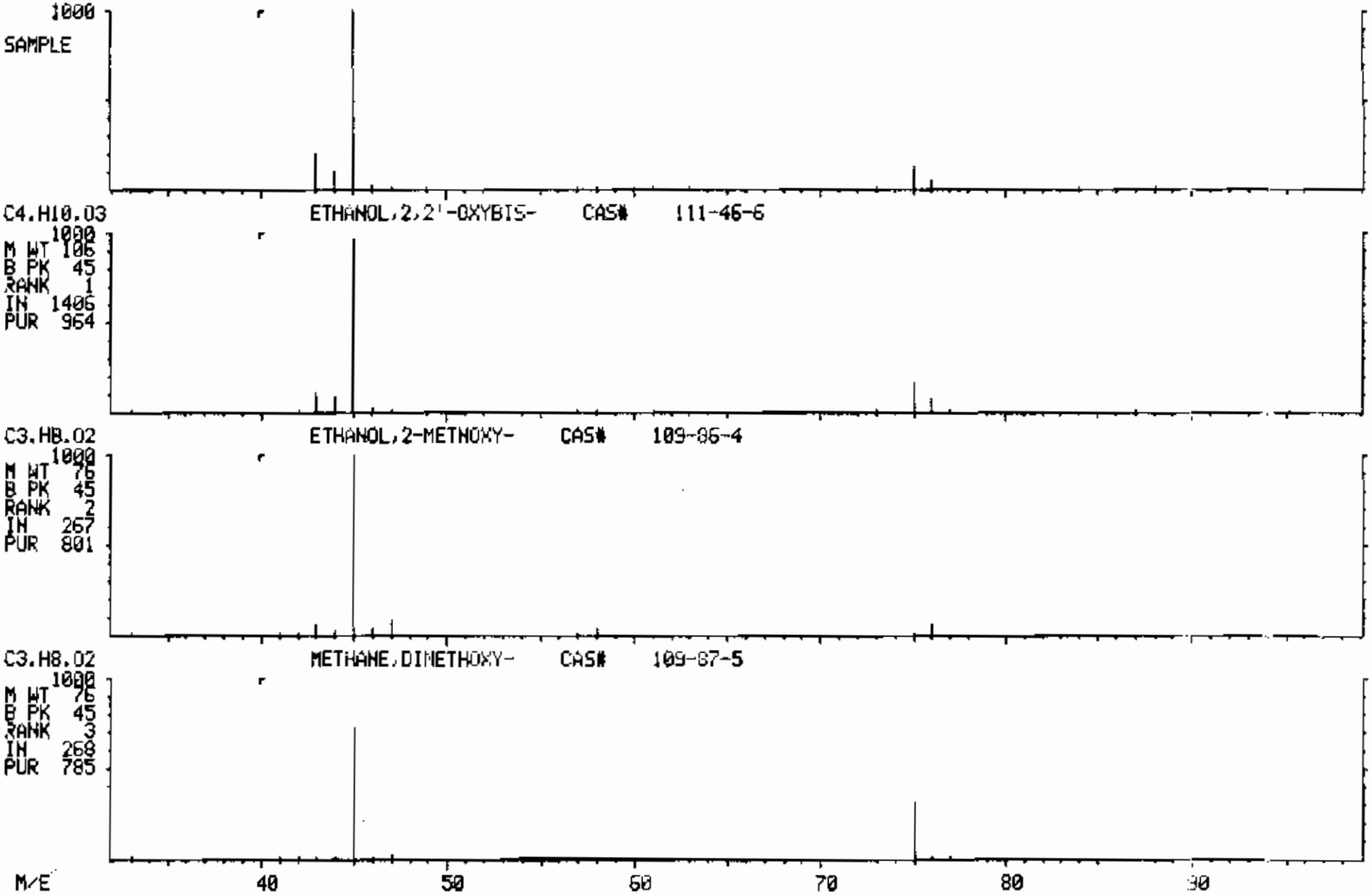


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 6:22
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH851045822 # 416
ENHANCED (10B 2N 0T)

BASE M/E: 45
RIC: 247.980.

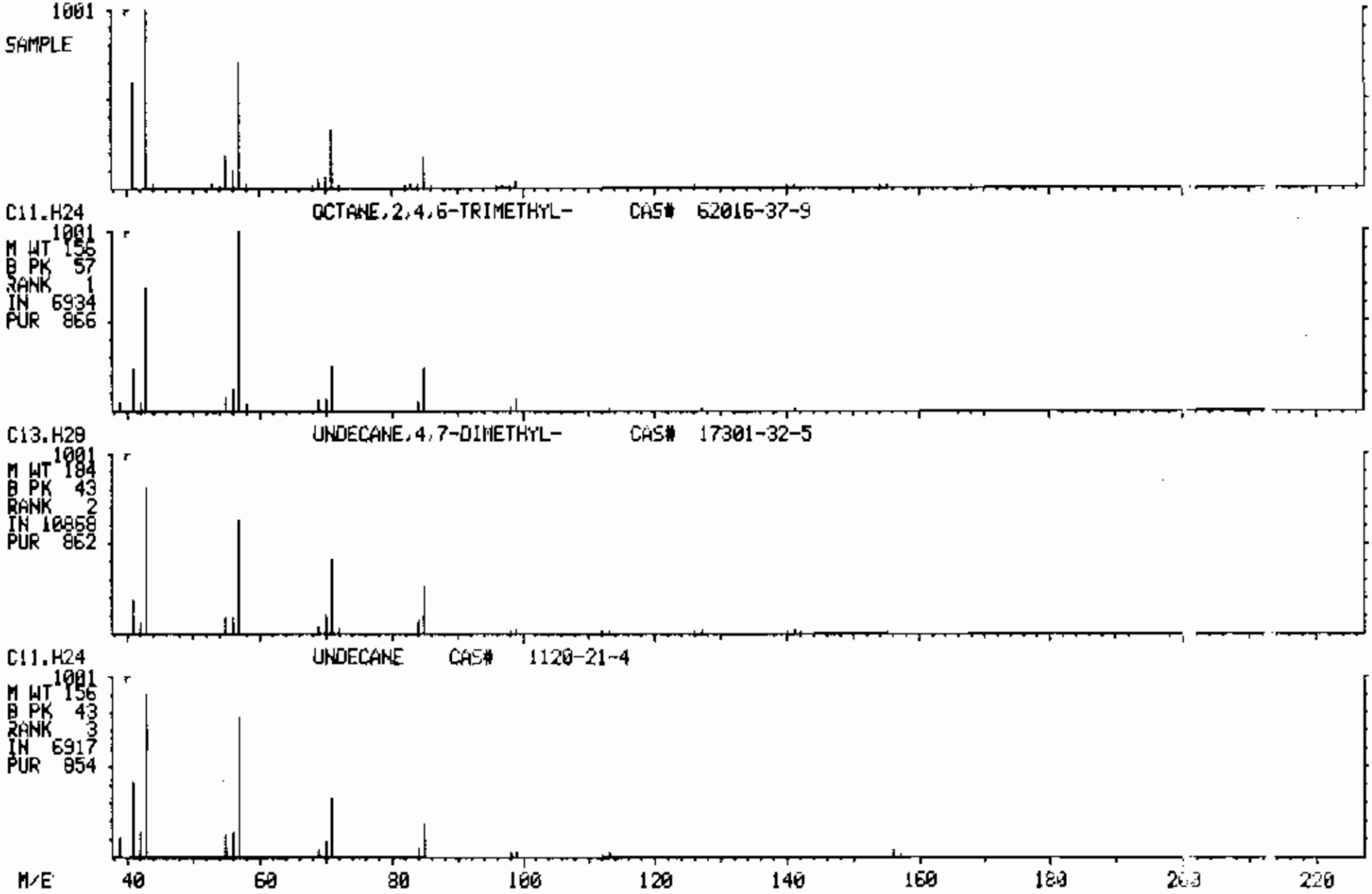


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 11:39
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 762
ENHANCED (100 2N 0T)

BASE M/E: 43
RIC: 2830520.

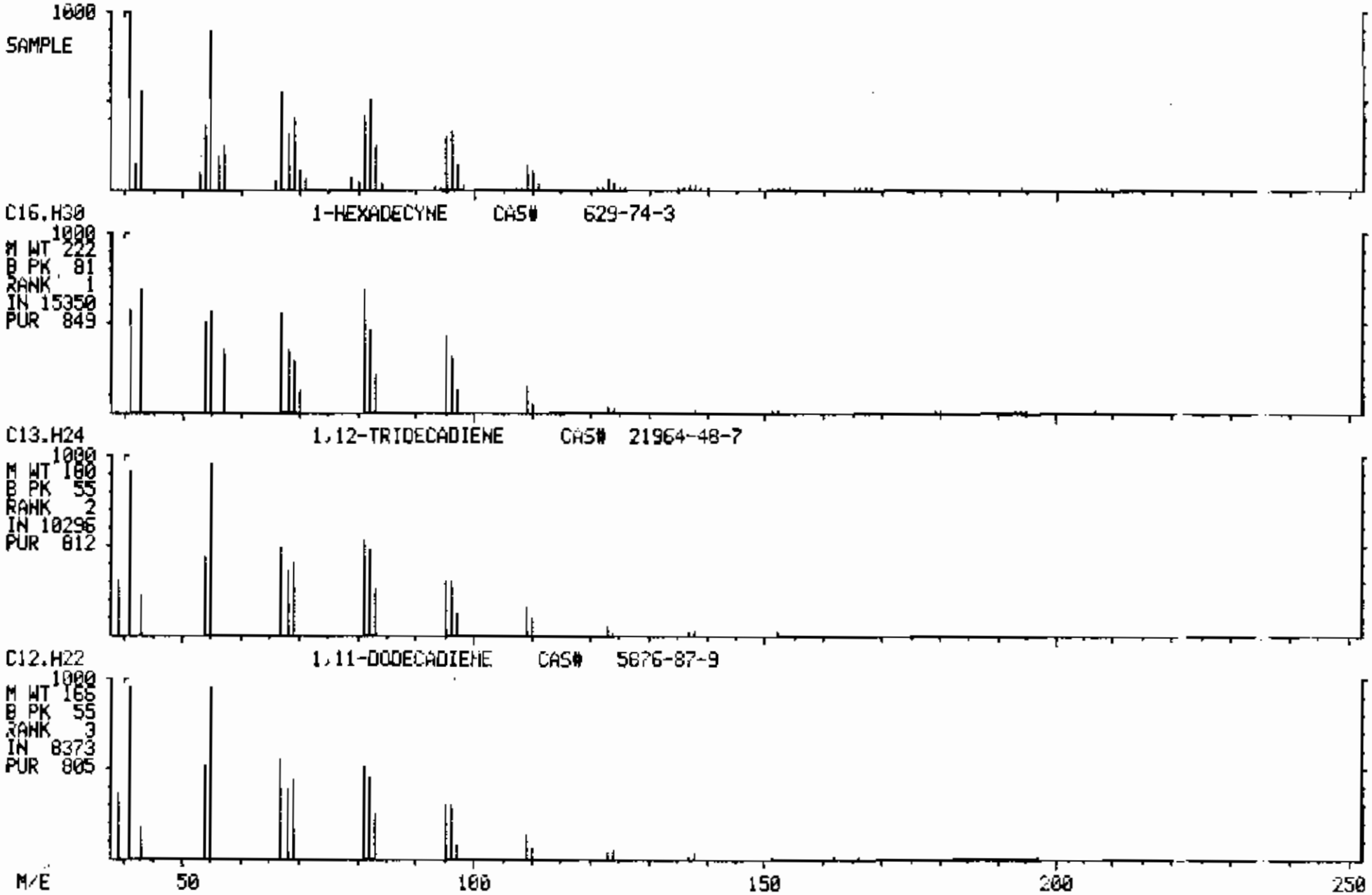


COMPUCHEM LABS

LIBRARY SEARCH
05/24/85 21:10:00 + 14:27
SAMPLE: 1 UL CC#51045 (5-2-85) CASE# GEN TEST EPA BLANK

DATA: GH051045B22 # 945
EHHANCED (10B 2N 0T)

BASE M/E: 41
RIC: 1205600.



CASE#: Gen Test DUE DATE:

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 51045

J[ ] R[ ] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL SOLID
Deliverable Code 069 -

Sample Prep Code--- -717
Instrument Code---255
Compound List---144
Surrogate Std---393
Internal Std---035 (added by GC/MS)

GAS: EPA#: Blank#2 Dry Weight Factor H2O

GC/MS ANALYSIS
Volumes mixed: BN 2.00 ul Acid 2.00 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/21/85
DFTPP Filename DM5052AB22 Disk (2)
Standard Filename HG5052AB22 Disk (1)
Sample Filename GH09245B22 Disk (1)

ANALYST(S): Injection SDZ Work-up SDZ

GC/MS REVIEW

CONDITION CODE [ ]

Entry Codes DK,EA,JA, ES,AL,AH,PL,PH,FL,JC
FH,NL,HH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,DT,DA
ED,IF,LA,DI,CO,RN,DW,NS

Extraneous Peak Search Results:
# of Peaks Found:

Quality Assurance Notice(s):
Notices Required:

COMMENTS: pk 20 s.25 Brmkd

Dispositions:
[X] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

GC/MS Review JS Date 5/28/85 Auditor [redacted] Date ___/___/___

REPORT INTEGRATION Total # of Injections: 2
Final Reportable Package(s): GK (5124) /

QA COMMENTS:

Initials ___ Date ___/___/___

FINAL REVIEW: Initials ___ Date ___/___/___

EPASOLID (1

COMPUCHEM # 051045 FILE: GH051045B22 COMPOUND LIST 144 PAGE
SEMI-VOLATILE - LOW LEVEL SOLID

CMF	M	E	F	COMPOUND NAME	SC4	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT LIMIT (UG/K
[illegible]	152	I		D4-1,4,-DICHLORBENZENE (IS#	45-	1370000.	40.0		
[illegible]	42			N-NITROSODIMETHYLAMINE (Q1#				BDL	340
[illegible]	94			PHENOL (Q1#3) <108-95-2>				BDL	340
[illegible]	93			ANILINE (Q1#4) <62-53-3>				BDL	34(
[illegible]	93			BIS(2-CHLOROETHYL)ETHER (Q1				BDL	340
[illegible]	128			2-CHLOROPHENOL (Q1#6) <95-5				BDL	340
[illegible]	146			1,3-DICHLOROBENZENE (Q1#7)				BDL	340
[illegible]	146			1,4-DICHLOROBENZENE (Q1#8)				BDL	340
[illegible]	108			BENZYL ALCOHOL (Q1#9) <100-				BDL	34(
[illegible]	146			1,2-DICHLORDBENZENE (Q1#10)				BDL	340
[illegible]	108			2-METHYLPHENOL (Q1#11) <95-				BDL	340
[illegible]	45			BIS(2-CHLOROISOPROPYL)ETHER				BDL	340
[illegible]	108			4-METHYLPHENOL (Q1#13) <106				BDL	34(
[illegible]	70			N-NITROSO-DI-N-PRDPYLAMINE				BDL	340
[illegible]	117			HEXACHLORDETHANE (Q1#15) <6				BDL	34(
[illegible]	77			NITROBENZENE (Q1#16) <98-95				BDL	34(
[illegible]	136	I		D8-NAPHTHALENE (IS#2)	56-	1.10000.	40.0		
[illegible]	82			ISOPHORONE (Q2#2) <78-59-1>				BDL	340
[illegible]	139			2-NITROPHENOL (Q2#3) <88-75				BDL	340
[illegible]	122			2,4-DIMETHYLPHENOL (Q2#4) <				BDL	340
[illegible]	122			BENZOIC ACID (Q2#5) <65-85-				BDL	1700
[illegible]	93			BIS(2-CHLOROETHOXY)METHANE				BDL	340
[illegible]	162			2,4-DICHLOROPHENOL (Q2#7) <				BDL	340
[illegible]	180			1,2,4-TRICHLOROBENZENE (Q2#				BDL	340
[illegible]	128			NAPHTHALENE (Q2#9) <91-20-3				BDL	34(
[illegible]	127			4-CHLDROANILINE (Q2#10) <10				BDL	340
[illegible]	225			HEXACHLOROBUTADIENE (Q2#11)				BDL	340
[illegible]	107			P-CHLORO-M-CRESOL (Q2#12) <				BDL	340
[illegible]	142			2-METHYLNAPHTHALENE (Q2#13)				BDL	34(
[illegible]	164	I		D10-ACENAPHTHENE (IS#3)	72-	3.10000.	40.0		
[illegible]	237			HEXACHLOROCYCLOPENTADIENE (				BDL	34(
[illegible]	196			2,4,6-TRICHLOROPHENOL (Q3#3				BDL	340
[illegible]	196			2,4,5-TRICHLOROPHENOL (Q3#4				BDL	340
[illegible]	162			2-CHLORONAPHTHALENE (Q3#5)				BDL	34(
[illegible]	65			2-NITROANILINE (Q3#6) <88-7				BDL	1700
[illegible]	163			DIMETHYL PHTHALATE (Q3#7) <				BDL	340
[illegible]	152			ACENAPHTHYLENE (Q3#8) <208-				BDL	34(
[illegible]	138			3-NITROANILINE (Q3#9) <99-0				BDL	1700
[illegible]	153			ACENAPHTHENE (Q3#10) <83-32				BDL	340
[illegible]	184			2,4-DINITROPHENOL (Q3#11) <				BDL	1700
[illegible]	139			4-NITROPHENOL (Q3#12) <100-				BDL	1700
[illegible]	168			DIBENZOFURAN (Q3#13) <132-6				BDL	34(
[illegible]	89			2,4-DINITROTOLUENE (Q3#14)				BDL	340
[illegible]	165			2,6-DINITROTOLUENE (Q3#15)				BDL	34(
[illegible]	149			DIETHYL PHTHALATE (Q3#16) <				BDL	340
[illegible]				[illegible]				[illegible]	[illegible]
[illegible]	166			FLUORENE (Q3#18) <86-73-7>				BDL	340
[illegible]	138			4-NITROANILINE (Q3#19) <100				BDL	1700
[illegible]	178	I		D10-PHENANTHRENE (IS#4)	85-	4910000.	40.0		
[illegible]	[illegible]			[illegible]				[illegible]	[illegible]
[illegible]	169			N-NITROSODIPHENYLAMINE (Q4#				BDL	340
[illegible]	[illegible]			[illegible]				[illegible]	[illegible]
[illegible]	284			HEXACHLOROBENZENE (Q4#5) <1				BDL	340
[illegible]	266			PENTACHLOROPHENOL (Q4#6) <8				BDL	1700

[illegible]	M/E	R	COMPOUND NAME	SCA	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT LIMIT (UG/K
[illegible]	178		PHENANTHRENE (Q4#7) <85-01-				BDL	340
[illegible]	178		ANTHRACENE (Q4#8) <120-12-7				BDL	340
[illegible]	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL	34(
[illegible]	202		FLUORANTHENE (Q4#10) <206-4				BDL	34(
[illegible]	240	I	D12-CHRYSENE (IS#5)	1117	2380000.	40.0		
[illegible]	184		BENZIDINE (Q5#2) <92-87-5>				BDL	170
[illegible]	202		PYRENE (Q5#3) <129-00-0>				BDL	340
[illegible]	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	34(
[illegible]	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	68(
[illegible]	228		BENZO(A)ANTHRACENE (Q5#6) <				BDL	34
[illegible]	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	34
[illegible]	228		CHRYSENE (Q5#8) <218-01-9>				BDL	34(
[illegible]	264	I	D12-PERYLENE (IS#6)	107.	[illegible]90000	40.0		
[illegible]	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	34(
[illegible]	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	34(
[illegible]	252		BENZO(K)FLUORANTHENE (Q6#4)				BDL	34(
[illegible]	252		BENZO(A)PYRENE (Q6#5) <50-3				BDL	34(
[illegible]	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL	34(
[illegible]	278		DIBENZO(A,H)ANTHRACENE (Q6#				BDL	34(
[illegible]	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	34(
[illegible]	112	S	2-FLUOROPHENOL (SE#1)			89.3	91.0%	
[illegible]	99	S	D5-PHENOL (SS#2)			99.7	101.0%	
[illegible]	82	S	D5-NITROBENZENE (SS#3)			48.8	99.0%	
[illegible]	172	S	2-FLUOROBIPHENYL (SS#4)			48.3	98.0%	
[illegible]	331	S	2,4,6-TRIBROMOPHENOL (SS#5)			107.0	109.0%	
[illegible]	244	S	D14-TERPHENYL (SS#7)			41.1	124.0%	
[illegible]	312	S	D10-PYRENE (SS#6)			56.3 ~~180.0~~	~~266.0%~~ 114 %	
[illegible] SUMS:								
[illegible]	2206			509.	26270000.	874.2	988.0	

COMPUCHEM # 051045 FILE: GH051045B22 COMPOUND LIST 144 PAGE
SEMI-VOLATILE - LOW LEVEL SOLID

	ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
5	419	2-FLUOROPHENOL (SS#1)	89.5	98.4	91.0	20-140	X
6	412	D5-PHENOL (SS#2)	99.7	98.4	101.0	20-140	X
7	447	D5-NITROBENZENE (SS#3)	48.8	49.2	99.0	20-140	X
8	448	2-FLUOROBIPHENYL (SS#4)	48.3	49.2	98.0	20-140	X
9	428	2,4,6-TRIBROMOPHENOL (SS#5)	107.0	98.4	109.0	10-140	X
10	456	D14-TERPHENYL (SS#7)	61.1	49.2	124.0	20-150	X
11	471	D10-PYRENE (SS#6)	163.7	49.2	333.0	33-128*	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE 40000 CNTS ___ ___

EXTRACTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0}{\text{AMOUNT EXTRACTED (G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{6ML}{590} \times \frac{30.0G}{30.0G} \times \frac{1.0}{1.0} \times 33.3 = 33.900$$

* SPLIT FACTOR = (295/300)(6/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

++ REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\ UL}{300\ UL} \times \frac{0.6ML}{0.590ML} \times 1.0 = 0.339$$

MISCELLANEOUS CALCULATIONS

Sample 5/04F

Calculated by

Calculation Employed:

COMPOUND	RESPONSE FACTOR	CALCULATION
87		$RF = .469 \times \frac{150}{50}$ ∴ $AMT = 150 \times \frac{50}{160} = 56.3$

(4)

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Detwiler L.A.Y.

DATE ASSIGNED: 5-21-85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
119521 R	717	GenTest	NA	SS	49820	30.63		0.6ml		4ml			5/21	Rec 49.27 27-1/307
119522 R		↓	NA	SS	49827	30.51		0.6ml		4.0ml			5/21	Rest. Back up
S1044				S		30.0ml		0.6	0.6ml	4.0ml			5/21	
S1045	↓			SS		30.0ml		0.6	0.6ml	4.0ml			5/21	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	353					
	AMT.	0.5ml					
	LOT	14693					
SPIKE	NO		353	353			
	AMT.		0.5ml	0.5ml			
	LOT		14655	14687			

MANUAL COUNTER: 216/310

FINAL VOLUME VERIFIED: L.R.P.

SUPERVISOR REVIEWED: CK

EXTRACTS RECEIVED BY: BD 5/21/85

Samples stored 5/21

№ 2187

Environmental Protection Agency, CLP Sample Management Office
Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
49919

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 05-17-85
Date analyzed: 05-18-85
Conc/Dil Factor: 33.90

CAS Number		ug/kg		CAS Number		ug/kg	
62-75-9	N-Nitrosodimethylamine	340	U	99-09-2	3-Nitroaniline	1700	U
108-95-2	Phenol	340	U	83-32-9	Acenaphthene	340	U
62-53-3	Aniline	340	U	51-28-5	2,4-Dinitrophenol	1700	U
111-44-4	bis(2-Chloroethyl) ether	340	U	100-02-7	4-Nitrophenol	1700	U
95-57-8	2-Chlorophenol	340	U	132-64-9	Dibenzofuran	340	U
541-73-1	1,3-Dichlorobenzene	340	U	121-14-2	2,4-Dinitrotoluene	340	U
106-46-7	1,4-Dichlorobenzene	340	U	606-20-2	2,6-Dinitrotoluene	340	U
100-51-6	Benzyl Alcohol	340	U	84-66-2	Diethylphthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U	7005-72-3	4-Chlorophenyl Phenyl ether	340	U
95-48-7	2-Methylphenol	340	U	86-73-7	Fluorene	340	U
39638-32-9	bis(2-Chloroisopropyl) ether	340	U	100-01-6	4-Nitroaniline	1700	U
106-44-5	4-Methylphenol	340	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
621-64-7	N-Nitroso-Dipropylamine	340	U	86-30-6	N-nitrosodiphenylamine (1)	340	U
67-72-1	Hexachloroethane	340	U	101-55-3	4-Bromophenyl Phenyl ether	340	U
98-95-3	Nitrobenzene	340	U	118-74-1	Hexachlorobenzene	340	U
78-59-1	Isophorone	340	U	87-86-5	Pentachlorophenol	1700	U
88-75-5	2-Nitrophenol	340	U	85-01-8	Phenanthrene	340	U
105-67-9	2,4-Dimethylphenol	340	U	120-12-7	Anthracene	340	U
65-85-0	Benzoic Acid	1700	U	84-74-2	Di-n-butylphthalate	340	U
111-91-1	bis(2-Chloroethoxy) methane	340	U	206-44-0	Fluoranthene	340	U
120-83-2	2,4-Dichlorphenol	340	U	92-87-5	Benzidine	1700	U
120-82-1	1,2,4-Trichlorobenzene	340	U	129-00-0	Pyrene	340	U
91-20-3	Naphthalene	340	U	85-68-7	Butyl Benzyl Phthalate	340	U
106-47-8	4-Chloroaniline	340	U	91-94-1	3,3'-Dichlorobenzidine	680	U
87-68-3	Hexachlorobutadiene	340	U	56-55-3	Benzo(a)anthracene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U	117-81-7	bis(2-ethylhexyl)phthalate	340	U
91-57-6	2-Methylnaphthalene	340	U	218-01-9	Chrysene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U	117-84-0	Di-n-octyl Phthalate	340	U
88-06-2	2,4,6-Trichlorophenol	340	U	205-99-2	Benzo(b)fluoranthene	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U	207-08-9	Benzo(k)fluoranthene	340	U
91-58-7	2-Chloronapthalene	340	U	50-32-8	Benzo(a)pyrene	340	U
88-74-4	2-Nitroaniline	1700	U	193-39-5	Indeno(1,2,3-cd)pyrene	340	U
131-11-3	Dimethyl Phthalate	340	U	53-70-3	Dibenz(a,h)anthracene	340	U
208-96-8	Acenaphthylene	340	U	191-24-2	Benzo(g,h,i)perylene	340	U

(1) Cannot be separated from diphenylamine

QA NOTICE FOR CONTAMINANTS IN ACETONE USED FOR GENERATING LOW LEVEL SOIL S-V/PESTICIDE EXTRACTS

Recent contract modifications employ a 1:1 acetone/methylene chloride solvent system to generate semi-volatile/pesticide extracts from processing soils characterized as low level in concentration. Pesticide grade acetone is recommended in the procedure. While GC/ECD detectable constituents are absent in the solvent system, several contaminants at significant levels are apparent when injected into a GC/MS system following the required concentration procedure. Testing was initiated to eliminate the problem and involved the following:

1) Acetone from a number of vendors (Burdick and Jackson, Fisher, J. T. Baker, and EM-Omnisolv), both pesticide grade and distilled in glass were evaluated.

2) Acetone from all of the vendors was distilled by our laboratory.

To date, the testing program has failed to generate an acceptable quality of acetone, free from contaminants.

Further studies are in process. Several of the solvent producers are aware of the problem and have indicated that independent studies will be conducted.

This notice serves as a data qualifier for the artifacts inherent in the concentrated acetone.

initials _____

date 6/17/85

SAMPLE NUMBER BL #1

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH049919A15

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
625-86-5	FURAN,2,5-DIMETHYL-	SEMI1	183	370.	J
108-88-3	BENZENE,METHYL-	SEMI1	264	1900.	J
638-04-0	CYCLOHEXANE,1,3-DIMETHYL-,CIS-	SEMI1	279	750.	J
15870-10-7	1-HEPTENE,2-METHYL-	SEMI1	293	600.	J
6876-23-9	CYCLOHEXANE,1,2-DIMETHYL-,TRANS-	SEMI1	301	370.	J
111-65-9	OCTANE	SEMI1	308	2900.	J
1678-91-7	CYCLOHEXANE,ETHYL-	SEMI1	341	1800.	J
123-42-2	2-PENTANONE,4-HYDROXY-4-METHYL-	SEMI1	348	5100.	J
1839-63-0	CYCLOHEXANE,1,3,5-TRIMETHYL-	SEMI1	360	480.	J
3074-71-3	HEPTANE,2,3-DIMETHYL-	SEMI1	366	910.	J
2216-34-4	OCTANE,4-METHYL-	SEMI1	374	1900.	J
2216-33-3	OCTANE,3-METHYL-	SEMI1	381	2200.	J
53941-19-8	2-HEXENE,3,4,4-TRIMETHYL-	SEMI1	394	480.	J

33.900 40.00

SPECTROSCOPIST _____

DATE _____

FORM I, PART B

SAMPLE NUMBER BL #1

COMPUCHEM FILE GH049919A15

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

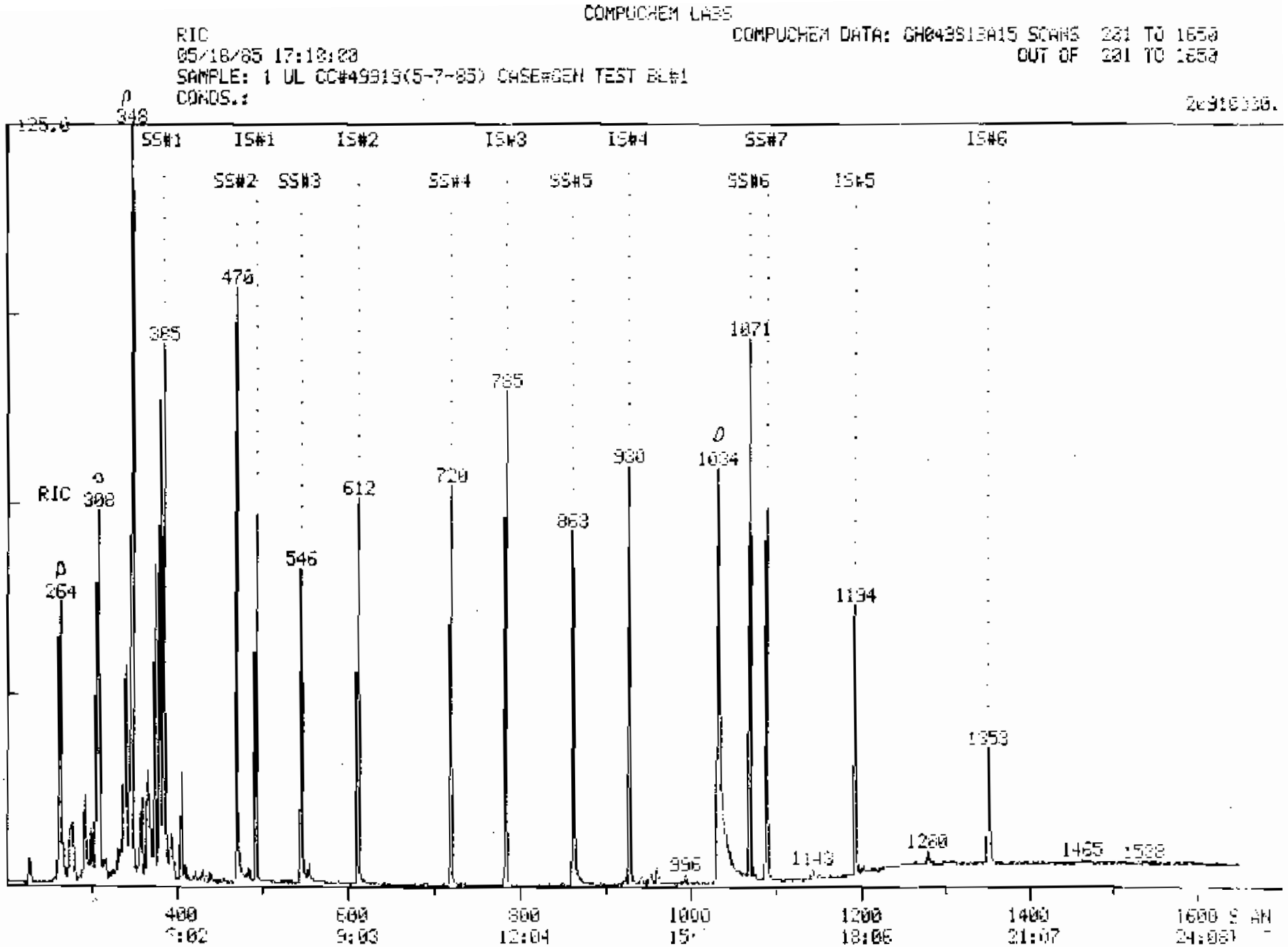
TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
111-84-2	NONANE Alkane	SEMI1	406	600.	J
629-74-3	1-HEXADECYNE lab artifact	SEMI1	1034	2800.	J

33.900 40.00

SPECTROSCOPIST _____

DATE _____


COMPUCHEM LABS
RIC
05/18/85 17:10:00
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1
CONDS.:
COMPUCHEM DATA: GH049919A15 SCANS 201 TO 1650
OUT OF 201 TO 1650
125.0
348
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
470
385
1071
785
RIC
308
1034
720
612
930
546
863
264
1194
1353
996
1143
1260
1465
1588
400
600
800
1000
1200
1400
1600
9:03
12:04
18:08
21:07
24:08
AN

PROCEDURE: RK DIAGNOSTIC REPORT 5/18/85 17:33:58
DATA FILE: GH049919A15
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1B1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES - STANDARD/UNKNOWN
4	4	1	60	53	8	1	49	SEMI1S1/SEMI1U1
4	4	2	96	29	7	1	82	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 14 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	Q1	1	-494	493	493	.	1	969	.	152	493	.	1
2	Q2	1	-614	613	612	-1	1	991	.	136	612	.	1
3	Q3	1	-786	785	785	.	1	986	.	164	785	.	1
4	Q7	2	-386	385	385	.	1	910	.	112	385	.	1
5	Q1	2	-231	230	.	.	.	.	.	42	230	.	1
6	Q1	3	-472	471	.	.	.	.	.	94	470	.	1
7	Q1	4	-468	467	.	.	.	.	.	93	.	.	.
8	Q1	5	-475	474	.	.	.	.	.	93	.	.	.
9	Q1	6	-479	478	.	.	.	.	.	128	.	.	.
10	Q1	7	-491	490	.	.	.	.	.	146	.	.	.
11	Q1	8	-496	495	.	.	.	.	.	146	.	.	.
12	Q1	9	-511	510	.	.	.	.	.	108	.	.	.
13	Q1	10	-512	511	.	.	.	.	.	146	.	.	.
14	Q1	11	-525	524	.	.	.	.	.	108	.	.	.
15	Q1	12	-526	525	.	.	.	.	.	45	523	.	2
16	Q1	13	-536	537	.	.	.	.	.	108	.	.	.
17	Q1	14	-538	537	.	.	.	.	.	70	539	.	1
18	Q1	15	-542	541	.	.	.	.	.	117	.	.	.
19	Q1	16	-549	548	.	.	.	.	.	77	546	.	2
20	Q2	2	-572	571	.	.	.	.	.	82	570	.	3
21	Q2	3	-579	578	.	.	.	.	.	139	.	.	.
22	Q2	4	-587	586	.	.	.	.	.	122	.	.	.
23	Q2	5	-601	600	.	.	.	.	.	122	.	.	.
24	Q2	6	-595	594	.	.	.	.	.	93	.	.	.
25	Q2	7	-603	602	.	.	.	.	.	162	.	.	.
26	Q2	8	-611	610	.	.	.	.	.	180	.	.	.
27	Q2	9	-616	615	.	.	.	.	.	128	.	.	.
28	Q2	10	-623	622	.	.	.	.	.	127	.	.	.
29	Q2	11	-636	635	.	.	.	.	.	225	.	.	.
30	Q2	12	-673	672	.	.	.	.	.	107	.	.	.
31	Q2	13	-683	682	.	.	.	.	.	142	.	.	.
32	Q3	2	-707	706	.	.	.	.	.	237	.	.	.
33	Q3	3	-714	713	.	.	.	.	.	196	.	.	.
34	Q3	4	-718	717	.	.	.	.	.	196	.	.	.
35	Q3	5	-730	729	.	.	.	.	.	162	.	.	.
36	Q3	6	-743	742	.	.	.	.	.	65	.	.	.
37	Q3	7	-766	765	.	.	.	.	.	163	764	.	1
38	Q3	8	-771	770	.	.	.	.	.	152	.	.	.
39	Q3	9	-743	742	.	.	.	.	.	138	.	.	.
40	Q3	10	-789	788	.	.	.	.	.	150	.	.	.
41	Q3	11	-796	795	.	.	.	.	.	184	.	.	.
42	Q3	12	-805	804	.	.	.	.	.	139	.	.	.
43	Q3	13	-805	804	.	.	.	.	.	168	.	.	.
44	Q3	14	-809	808	.	.	.	.	.	84	.	.	.
45	Q3	15	-770	769	.	.	.	.	.	165	.	.	.
46	Q3	16	-835	834	.	.	.	.	.	145	834	.	1
47	Q3	17	-840	839	.	.	.	.	.	204	.	.	.
48	Q3	18	-839	838	.	.	.	.	.	166	.	.	.
49	Q3	19	-844	843	.	.	.	.	.	170	.	.	.

53	Q7	6	-864	863	863	.	1	923	.	141	863	.
54	Q4	1	-931	930	930	.	1	973	.	188	930	.
55	Q5	1	-1194	1193	1194	1	1	951	.	240	1193	-1
56	Q6	1	-1355	1354	1353	-1	2	996	.	264	1353	.
57	Q4	2	-849	848	.	.	.	.	.	198	.	.
58	Q4	3	-852	851	.	.	.	.	.	169	852	.
59	Q4	4	-887	886	.	.	.	.	.	248	.	.
60	Q4	5	-901	900	.	.	.	.	.	204	.	.
61	Q4	6	-920	919	.	.	.	.	.	266	.	.
62	Q4	7	-933	932	.	.	.	.	.	178	932	.
63	Q4	8	-937	936	.	.	.	.	.	178	.	.
64	Q4	9	-997	996	.	.	.	.	.	149	996	.
65	Q4	10	-1051	1050	.	.	.	.	.	202	1051	.
66	Q5	2	-1072	1071	.	.	.	.	.	184	1071	.
67	Q5	3	-1073	1072	.	.	.	.	.	202	1072	.
68	Q5	4	-1143	1142	.	.	.	.	.	149	1143	.
69	Q5	5	-1192	1191	.	.	.	.	.	252	.	.
70	Q5	6	-1193	1192	.	.	.	.	.	228	1193	.
71	Q5	7	-1204	1203	1204	1	1	969	.	149	1204	.
72	Q5	8	-1197	1196	.	.	.	.	.	228	1193	.
73	Q6	2	-1265	1264	.	.	.	.	.	149	1264	.
74	Q6	3	-1309	1308	.	.	.	.	.	252	1310	.
75	Q6	4	-1309	1308	.	.	.	.	.	252	1310	.
76	Q6	5	-1347	1346	.	.	.	.	.	252	1347	.
77	Q6	6	-1536	1535	.	.	.	.	.	276	1537	.
78	Q6	7	-1540	1539	.	.	.	.	.	278	1540	.
79	Q6	8	-1589	1588	.	.	.	.	.	276	1589	.
80	Q7	7	-1091	1090	1091	1	1	994	.	244	1090	-1
81	Q8	2	-1072	1071	1071	.	1	972	.	212	1071	.

METHOD: SEMI1 FILENAME: GH049919A15 DATE: 05/18/85
SHIFT STD: HH850518A15 TIME: 17:10

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	1848920.	1825850.	1.	PASS
*460 D8-NAPHTHALENE (IS#2)	7051740.	7095390.	-0.	PASS
*495 D10-ACENAPHTHENE (IS#3)	3725750.	3745180.	-0.	PASS
*467 D10-PHENANTHRENE (IS#4)	6168540.	5973910.	3.	PASS
*459 D12-CHRYSENE (IS#5)	3493050.	3493340.	0.	PASS
*497 D12-PERYLENE (IS#6)	2315320.	3349760.	-30.	PASS

IR

QUANTITATION REPORT FILE: GH049919A15

DATA: GH049919A15.TI
05/18/85 17:10:00
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1
CONDS. :
 /BMITTED BY: 15 ANALYST: 875

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (O1#9) <100-51-6>
10	420 1.2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (O2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2.4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (O2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2.4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIFHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	493	7:26	1	1.000	A BV	1548920	40.000	NG	5.13
2	42	230	3:28	1	0.467	A VV	61729.	1.371	NG	0.18
3	94	470	7:05	1	0.953	A BB	20160.	0.195	NG	0.02
4	93	NOT FOUND								
5	93	NOT FOUND								
6	128	NOT FOUND								
7	146	NOT FOUND								
8	146	NOT FOUND								
9	108	NOT FOUND								
10	146	NOT FOUND								
11	108	NOT FOUND								
12	45	523	7:53	1	1.061	A*VV	82040.	0.493	NG	0.06
13	108	NOT FOUND								
14	70	539	8:08	1	1.093	A BB	2656	0.033	NG	0.00
15	117	NOT FOUND								
16	77	546	8:14	1	1.108	A*BB	18464.	0.170	NG	0.02
17	136	612	9:14	17	1.000	P BV	7051740.	40.000	NG	5.13
18	82	570	8:36	17	0.931	A*VV	29216.	0.152	NG	0.02
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
20	122	NOT FOUND							
21	122	NOT FOUND							
22	93	NOT FOUND							
23	162	NOT FOUND							
24	180	NOT FOUND							
25	128	NOT FOUND							
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	NOT FOUND							
29	142	NOT FOUND							
30	164	785	11:50	30	1.000	A BV	3725750.	40.000 NG	5.13
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	NOT FOUND							
35	65	NOT FOUND							
36	163	764	11:31	30	0.973	A BB	5088.	0.039 NG	0.00
37	152	NOT FOUND							
38	138	NOT FOUND							
39	153	NOT FOUND							
40	184	NOT FOUND							
41	139	NOT FOUND							
42	168	NOT FOUND							
43	89	NOT FOUND							
44	165	NOT FOUND							
45	149	834	12:35	30	1.062	A BV	12416.	0.082 NG	0.01
46	204	NOT FOUND							
47	166	NOT FOUND							
48	138	NOT FOUND							
49	188	930	14:01	49	1.000	A BV	6168540.	40.000 NG	5.13
50	198	NOT FOUND							
51	169	852	12:51	49	0.916	A BB	20768.	0.270 NG	0.03
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	NOT FOUND							
55	178	932	14 03	49	1.002	A BB	3680.	0.025 NG	0.00
56	178	NOT FOUND							
57	149	996	15:01	49	1.071	A BB	73216.	0.297 NG	0.04
58	202	1051	15:51	49	1.130	A BB	21696.	0.130 NG	0.02
59	240	1193	17:59	59	1.000	A VV	3493050.	40.000 NG	5.13
60	184	1071	16:09	59	0.898	A BB	68128.	46.073 NG	5.90#
61	202	1072	16:10	59	0.899	A BB	34400.	0.227 NG	0.03
62	149	1143	17:14	59	0.958	A BB	14400.	0.155 NG	0.02
63	252	NOT FOUND							
64	228	1193	17:59	59	1.000	A BB	15360.	0.129 NG	0.02
65	149	1204	18:09	59	1.009	A VV	100032.	0.760 NG	0.10
66	228	1193	17:59	59	1.000	A BB	15360.	0.151 NG	0.02
67	264	1353	20:24	67	1.000	A VV	2315320.	40.000 NG	5.13
68	149	1264	19:04	67	0.934	A VV	34802.	0.262 NG	0.03
69	252	1310	19:45	67	0.968	A BV	16768.	0.243 NG	0.03
70	252	1310	19:45	67	0.968	A BV	16768.	0.243 NG	0.03
71	252	1347	20:19	67	0.996	A BV	7296.	0.118 NG	0.02
72	276	1537	23:11	67	1.136	A*BV	8192.	0.121 NG	0.02
73	278	1540	23:13	67	1.138	A BB	13184	0.239 NG	0.03
74	276	1589	23:58	67	1.174	A BB	11360.	0.206 NG	0.03
75	112	385	5:48	1	0.781	A VV	5600470.	103.545 NG	13.27

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	470	7:05	1	0.953	A BV	8695930.	103.914	NG	13.31
77	82	546	8:14	17	0.892	A BV	4425430.	44.188	NG	5.66
78	172	720	10:51	30	0.917	A BV	4901530.	44.233	NG	5.67
79	141	863	13:01	30	1.099	A BV	839488.	87.242	NG	11.18
80	244	1090	16:26	59	0.914	A BV	5747230.	52.745	NG	6.76
81	212	1071	16:09	59	0.898	A VV	7352440.	52.415	NG	6.72

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:27	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:29	1.00	10.000	0.05	1.37	50.00	0.027	0.974	0.03
3	7:07	1.00	10.000	0.10	0.19	50.00	0.009	2.241	0.00
4	7:03		10.000			50.00		1.927	
5	7:10		10.000			50.00		2.022	
6	7:13		10.000			50.00		1.487	
7	7:24		10.000			50.00		1.590	
8	7:29		10.000			50.00		1.620	
9	7:42		10.000			50.00		0.979	
10	7:43		10.000			50.00		1.545	
11	7:55		10.000			50.00		1.330	
12	7:56	0.99	10.000	0.11	0.49	50.00	0.035	3.603	0.01
13	8.07		10.000			50.00		1.580	
14	8:07	1.00	10.000	0.11	0.03	50.00	0.001	1.750	0.00
15	8:10		10.000			50.00		0.913	
16	8:17	0.99	10.000	0.11	0.17	50.00	0.008	2.345	0.00
17	9:16	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:38	1.00	10.000	0.09	0.15	50.00	0.003	1.088	0.00
19	8:44		10.000			50.00		0.220	
20	8:51		10.000			50.00		0.342	
21	9:04		50.000			50.00		0.120	
22	8:58		10.000			50.00		0.575	
23	9:06		10.000			50.00		0.290	
24	9:13		10.000			50.00		0.329	
25	9:17		10.000			50.00		1.075	
26	9:24		10.000			50.00		0.390	
27	9:35		10.000			50.00		0.184	
28	10:09		10.000			50.00		0.342	
29	10.18		10.000			50.00		0.660	
30	11:51	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:40		10.000			50.00		0.269	
32	10:46		10.000			50.00		0.326	
33	10:50		100.000			50.00		0.350	
34	11:00		10.000			50.00		1.143	
35	11:12		50.000			50.00		0.614	
36	11:33	1.00	10.000	0.10	0.04	50.00	0.001	1.402	0.00
37	11:38		10.000			50.00		1.709	
38	11:12		50.000			50.00		0.456	
39	11:54		10.000			50.00		1.134	
40	12:00		50.000			50.00		0.072	
41	12:08		50.000			50.00		0.922	
42	12:08		10.000			50.00		1.559	
43	12:12		10.000			50.00		0.410	
44	11:37		10.000			50.00		0.297	
45	12:35	1.00	10.000	0.11	0.08	50.00	0.003	1.635	0.00
46	12:40		10.000			50.00		0.505	
47	12.39		10.000			50.00		1.213	
48	12.45		50.000			50.00		0.165	

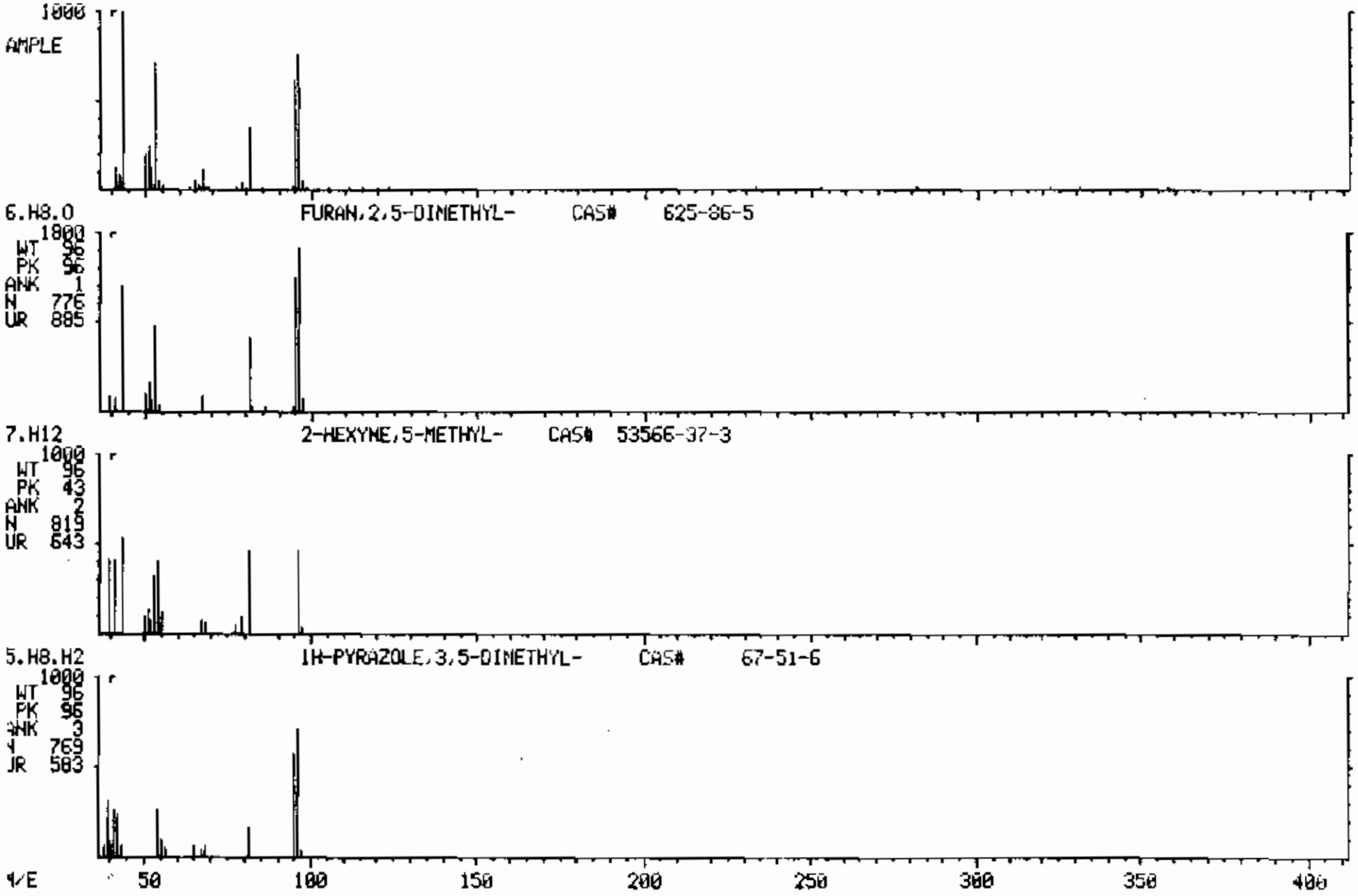
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
49	14:02	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:48		50.000			50.00		0.096	
51	12:51	1.00	10.000	0.09	0.27	50.00	0.003	0.498	0.01
52	13:23		10.000			50.00		0.205	
53	13:35		10.000			50.00		0.247	
54	13:52		50.000			50.00		0.075	
55	14:04	1.00	10.000	0.10	0.02	50.00	0.000	0.971	0.00
56	14:08		10.000			50.00		0.990	
57	15:02	1.00	10.000	0.11	0.30	50.00	0.009	1.601	0.01
58	15:51	1.00	10.000	0.11	0.13	50.00	0.003	1.085	0.00
59	18:00	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:10	1.00	50.000	0.02	46.07	50.00	0.020	0.022	0.92
61	16:11	1.00	10.000	0.09	0.23	50.00	0.008	1.736	0.00
62	17:14	1.00	10.000	0.10	0.15	50.00	0.003	1.066	0.00
63	17:58		20.000			50.00		0.150	
64	17:59	1.00	10.000	0.10	0.13	50.00	0.004	1.360	0.00
65	18:09	1.00	10.000	0.10	0.76	50.00	0.023	1.506	0.02
66	18:03	1.00	10.000	0.10	0.15	50.00	0.004	1.164	0.00
67	20:26	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	19:05	1.00	10.000	0.09	0.26	50.00	0.012	2.298	0.01
69	19:44	1.00	10.000	0.10	0.24	100.00	0.003	1.192	0.00
70	19:44	1.00	10.000	0.10	0.24	100.00	0.003	1.192	0.00
71	20:19	1.00	10.000	0.10	0.12	50.00	0.003	1.072	0.00
72	23:10	1.00	10.000	0.11	0.12	50.00	0.003	1.173	0.00
73	23:13	1.00	10.000	0.11	0.24	50.00	0.005	0.952	0.00
74	23:58	1.00	10.000	0.12	0.21	50.00	0.004	0.952	0.00
75	5:49	1.00	0.742	1.05	103.55	50.00	2.423	1.170	2.07
76	7:06	1.00	0.948	1.01	103.91	50.00	3.762	1.810	2.08
77	8:15	1.00	0.875	1.02	44.19	50.00	0.502	0.568	0.88
78	10:53	1.00	0.906	1.01	44.23	50.00	1.052	1.190	0.88
79	13:02	1.00	1.118	0.98	87.24	50.00	0.180	0.103	1.74
80	16:27	1.00	0.907	1.01	52.75	50.00	1.316	1.246	1.05
81	16:10	1.00	0.906	0.99	52.42	50.00	1.684	1.606	1.05

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:18:80 + 2:46
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 183
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 1312760.

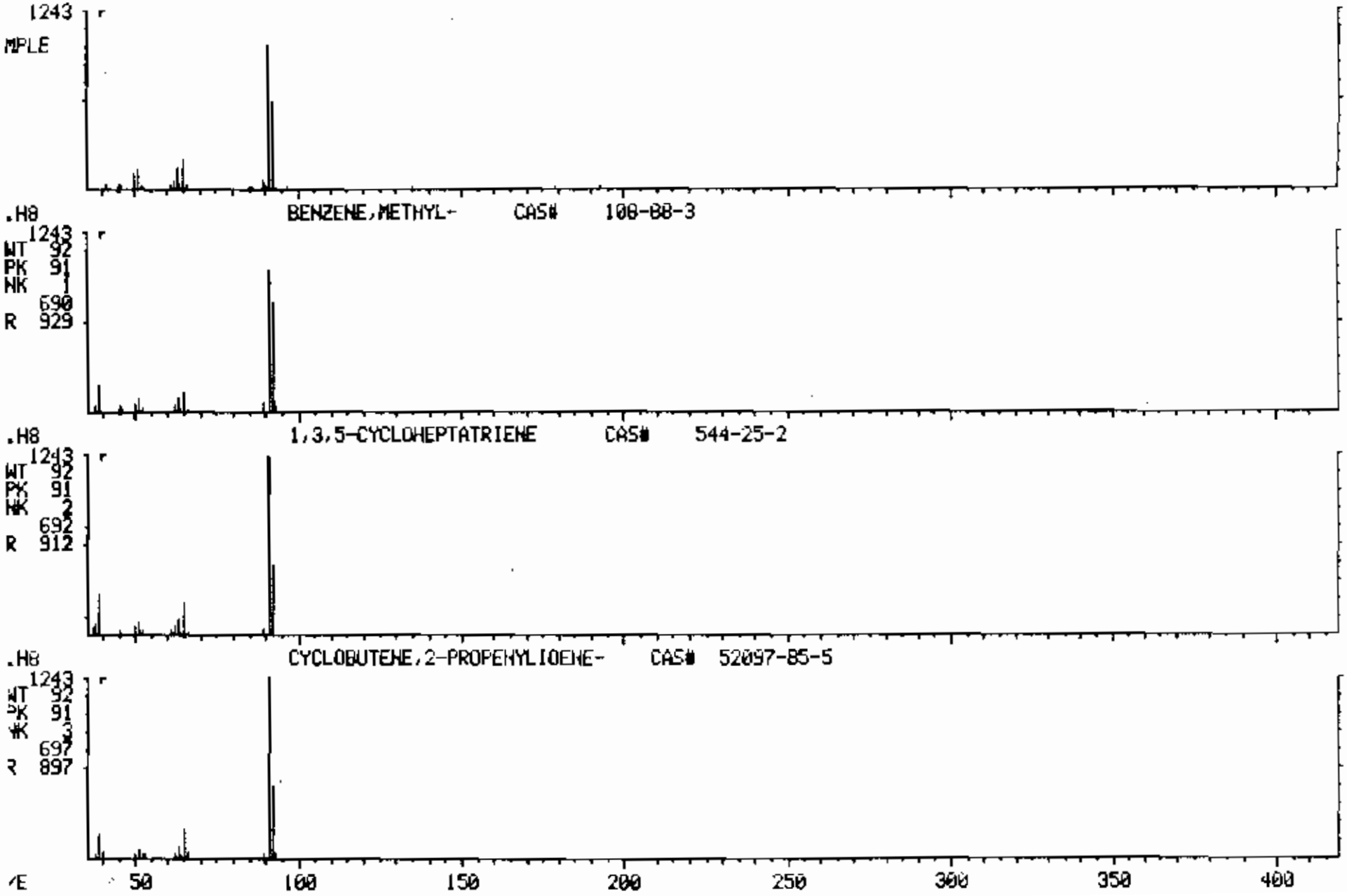


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 3:59
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 264
ENHANCED (10B 2N 0T)

BASE M/E: 91
RIC: 5693430.

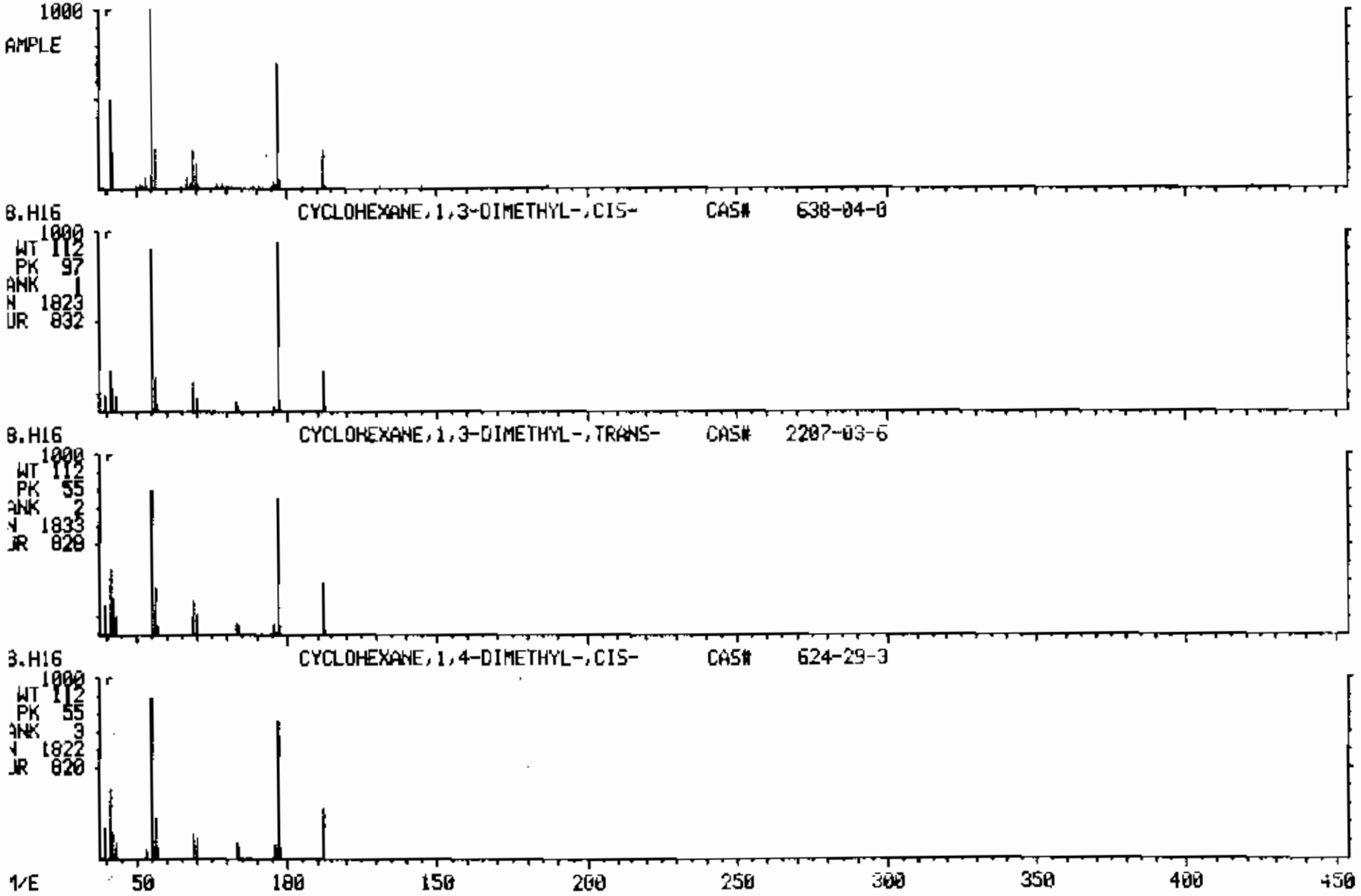


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 4:12
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST 8L#1

DATA: GH049919A15 # 279
ENHANCED (100 2N 0T)

BASE M/E: 55
RIC: 1089530.

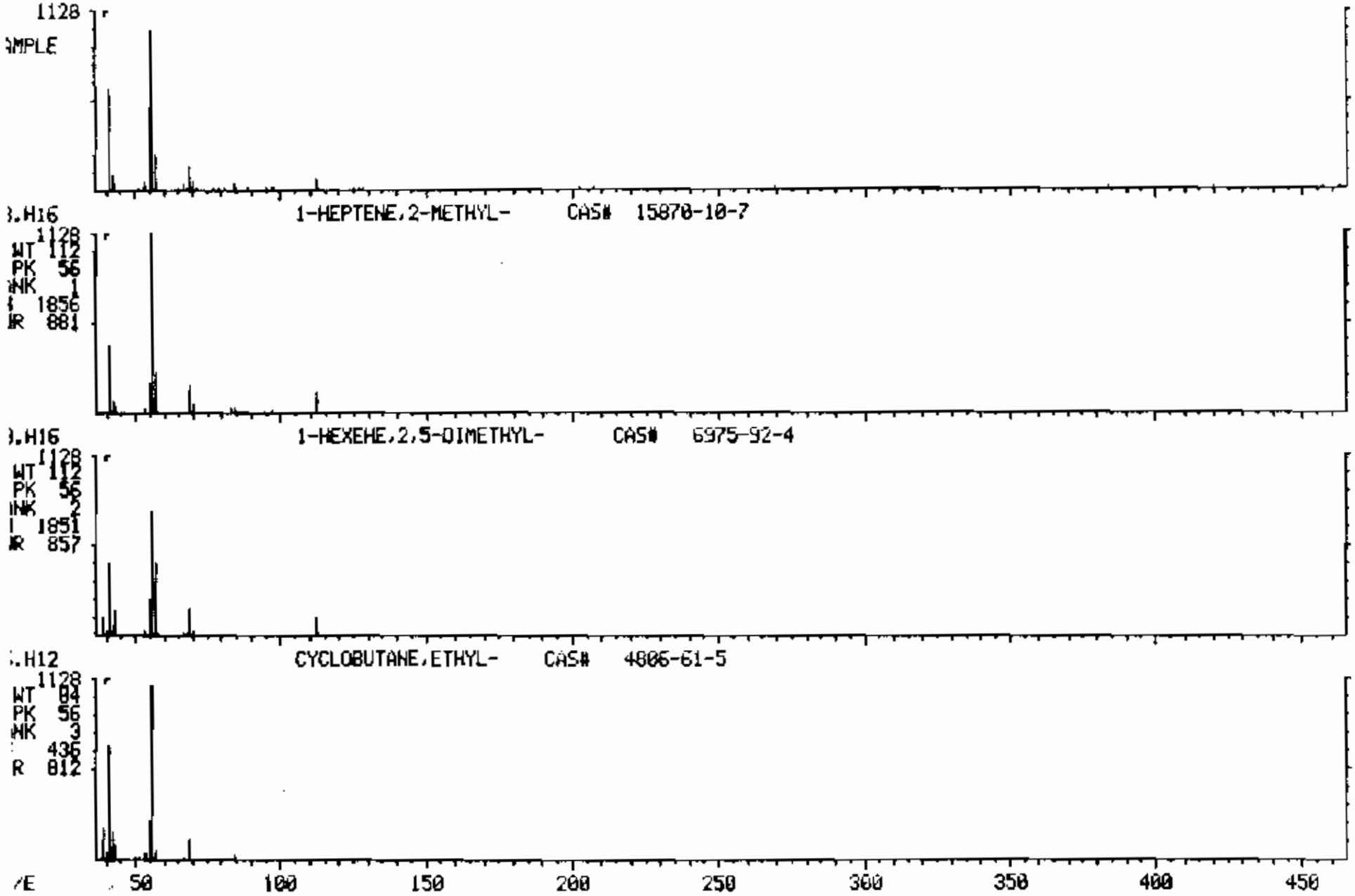


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 4:25
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 293
ENHANCED (18B 2N 0T)

BASE M/E: 56
RIC: 1638390.

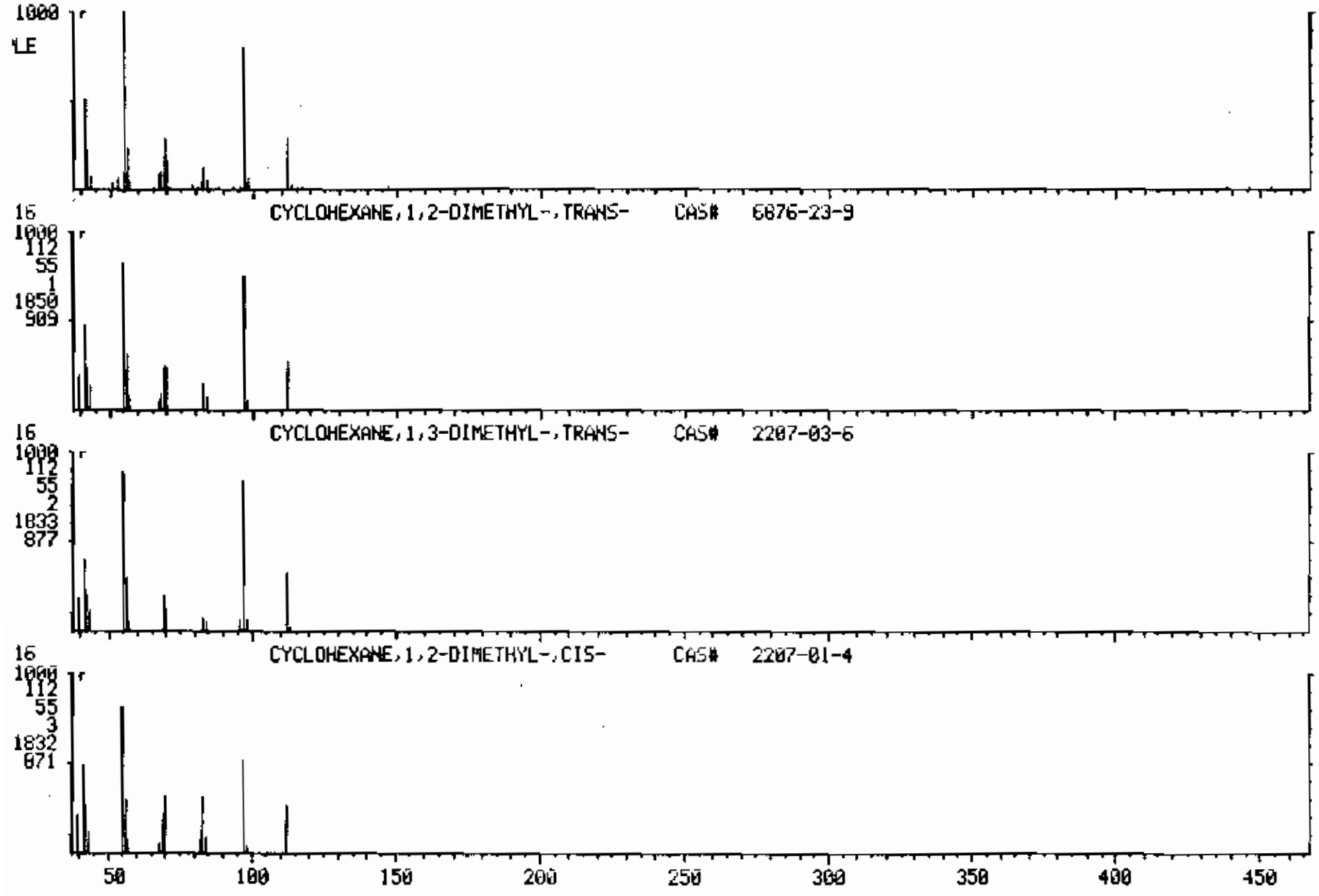


COMPUCHEM LABS

LIBRARY SEARCH
05/18/05 17:10:00 + 4:32
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEH TEST 0L#1

DATA: GH049919A15 # 301
ENHANCED (10B 2N 0T)

BASE M/E: 55
RIC: 073471.



COMPUCHEM LABS

LIBRARY SEARCH
05/10/05 17:10:00 + 4:39
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 308
ENHANCED (10B 2H 0T)

BASE M/E: 43
RIC: 7258110.

1230
SAMPLE

8.H10 OCTANE CAS# 111-65-9

1230
1 WT 114
PK 43
RANK 1
N 2073
UR 957

8.H18 HEXANE,2,4-DIMETHYL- CAS# 589-43-5

1230
1 WT 114
PK 43
RANK 2
N 2001
UR 915

9.H20 HEPTANE,2,4-DIMETHYL- CAS# 2213-23-2

1230
WT 128
PK 43
RANK 3
N 3332
UR 903

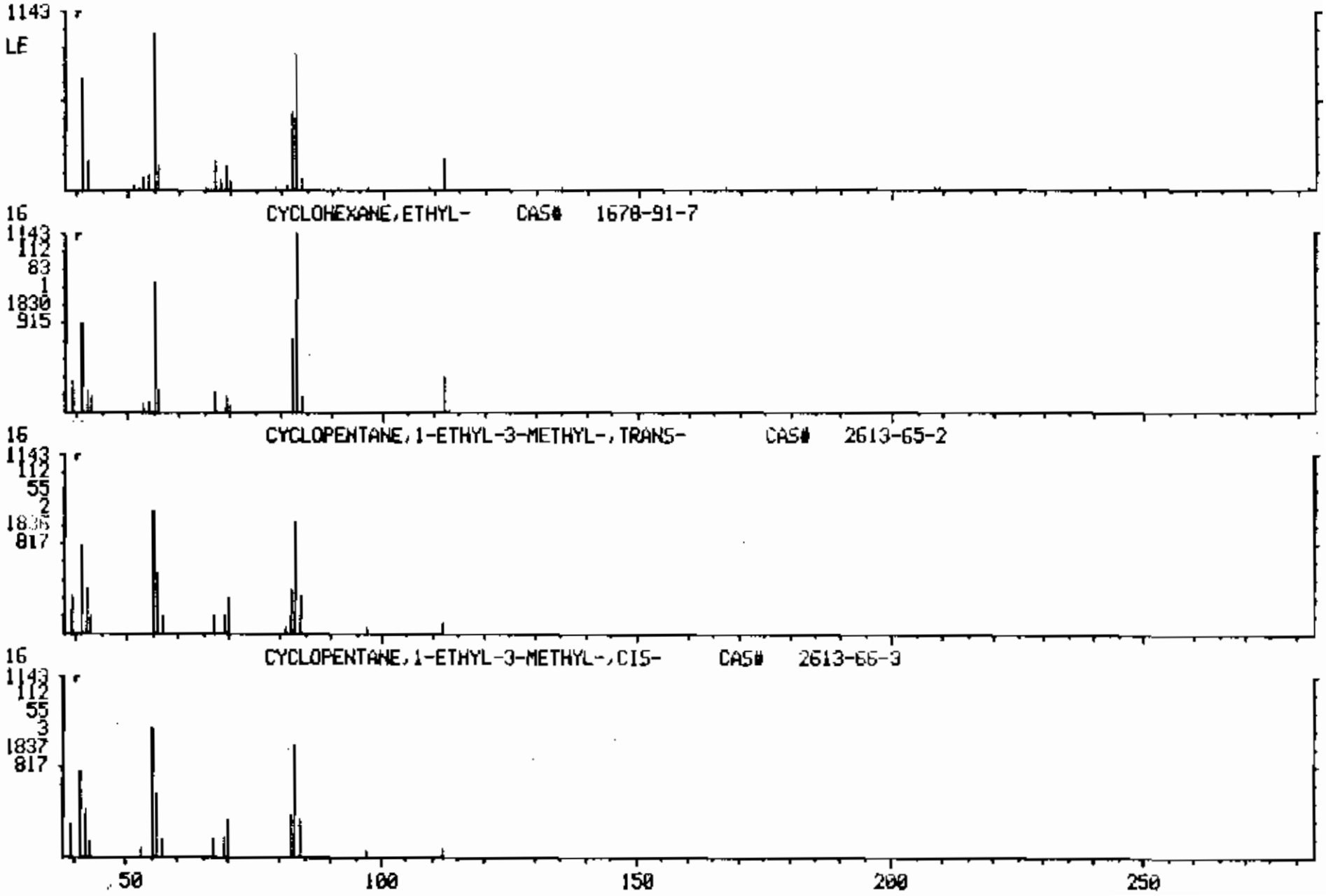
M/E 50 100 150 200 250 300 350 400 450

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:09
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEH TEST BL#1

DATA: GH049919A15 # 341
ENHANCED (10B 2H 0T)

BASE M/E: 55
RIC: 3878910.



COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:15
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: CH049919A15 # 348
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 16285600.

1329
MPLE

.H12.02 2-PENTANONE,4-HYDROXY-4-METNYL- CAS# 123-42-2

1329
WT 116
PK 43
NK
2100
R 947

'.H16.0 2-HEXANOL,2-METHYL- CAS# 625-23-0

1329
116
59
225
R 725

.H12.03 1,3-DIOXOLANE-2-METHANOL,2,4-DIMETHYL- CAS# 53951-43-2

1329
WT 132
PK 45
NK 3
3744
R 725

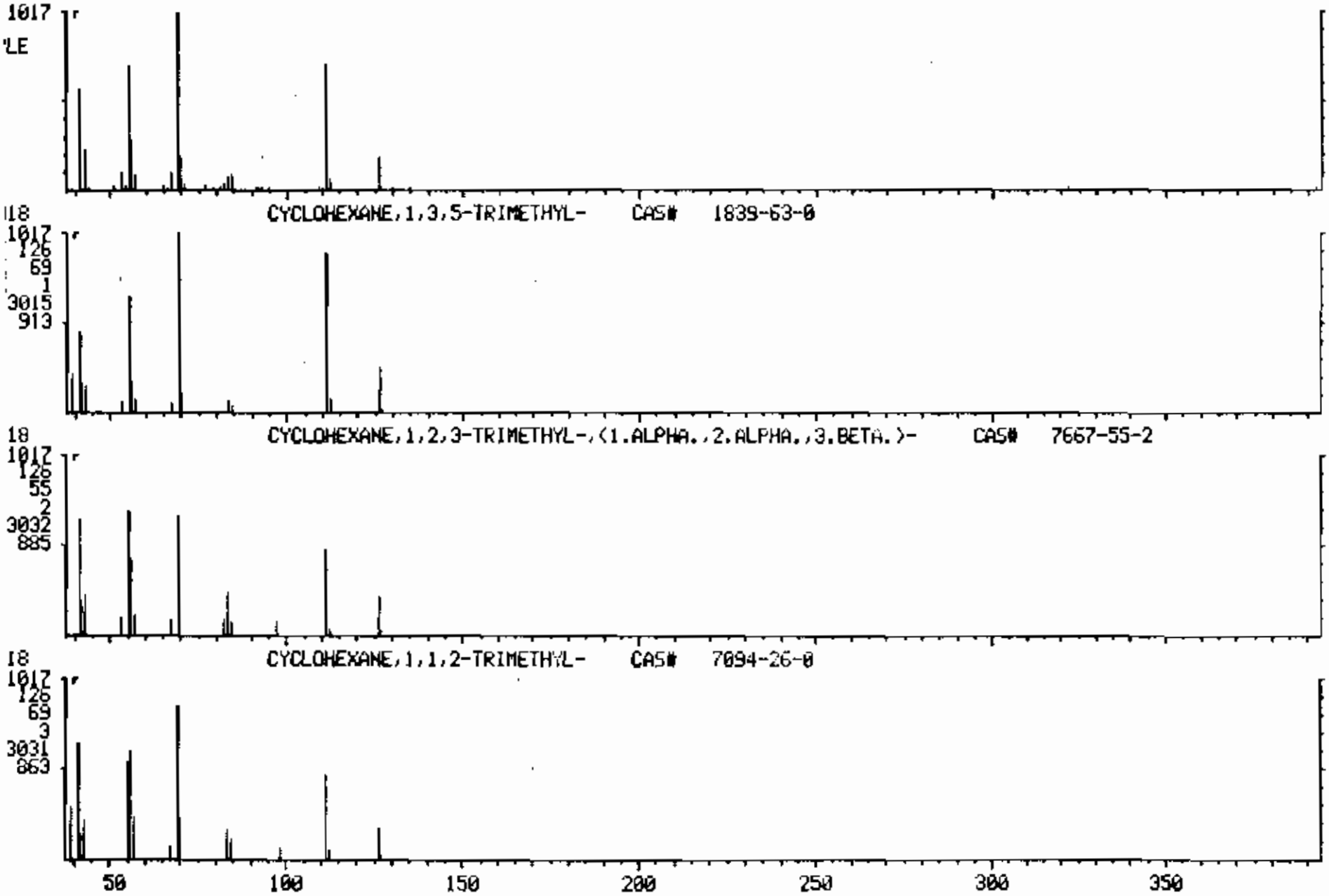
/E 50 100 150 200 250 300

COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:26
SAMPLE: 1 UL CC#49919(5-7-05) CASE#GEN TEST BL#1

DATA: GH049919A15 # 360
ENHANCED (10B 2N 0T)

BASE M/E: 69
RIC: 1593340.

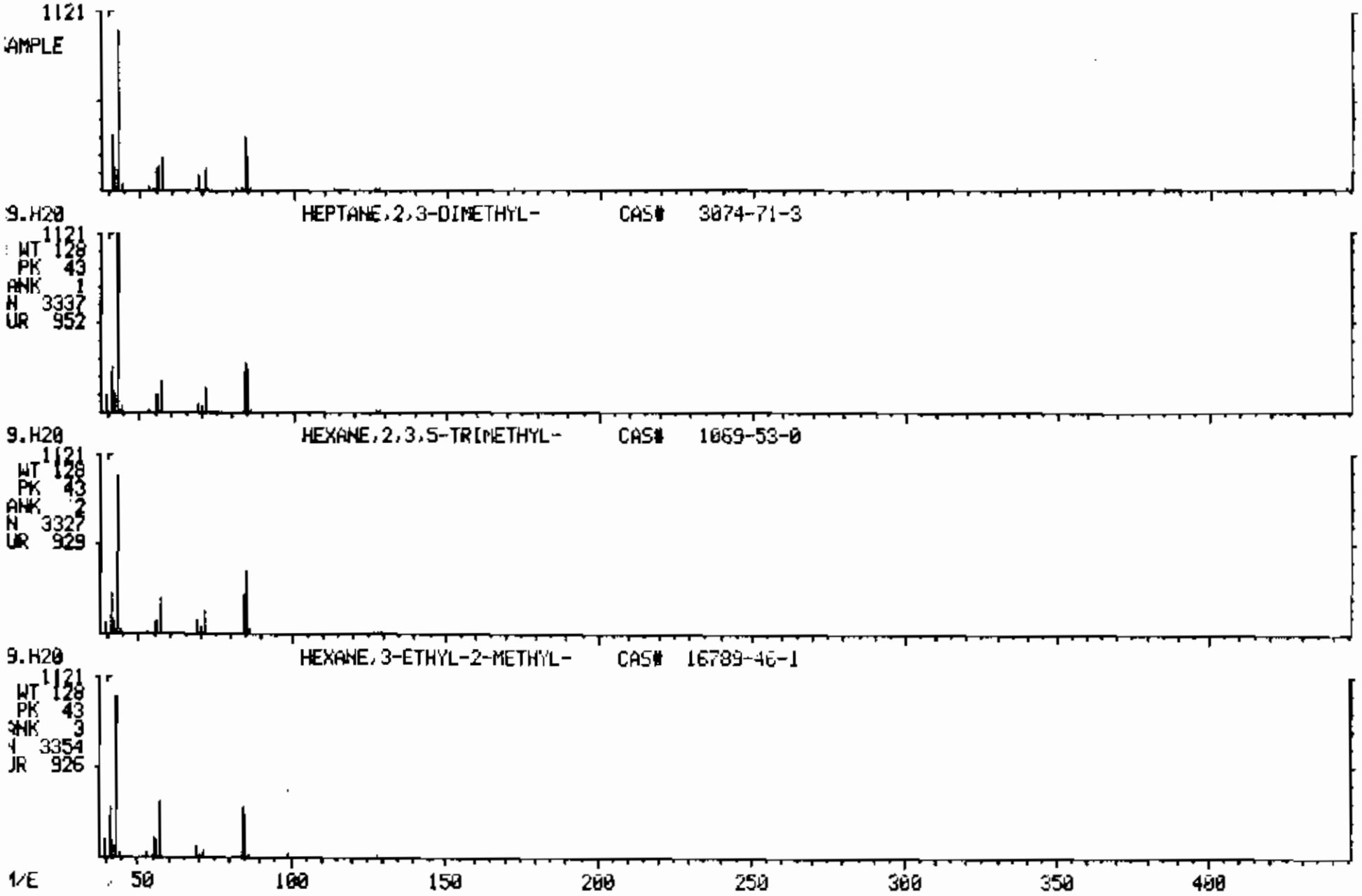


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 5:31
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 366
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 2019320.

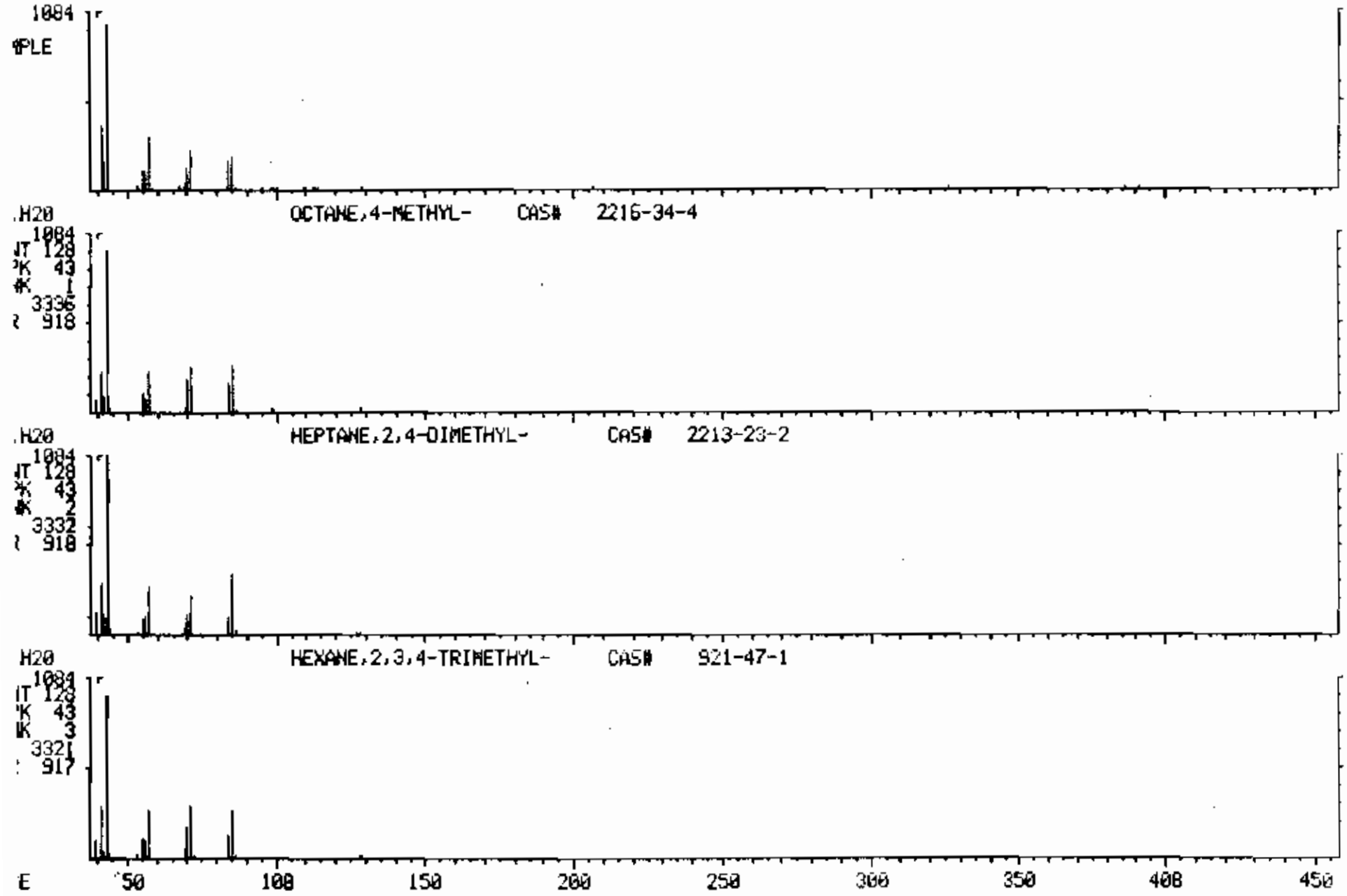


COMPUCHEM LABS

LIBRARY SEARCH
05/10/85 17:10:00 + 5:38
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 374
ENHANCED (10B 2N 0T)

BASE M/E: 43
RIC: 6701050.

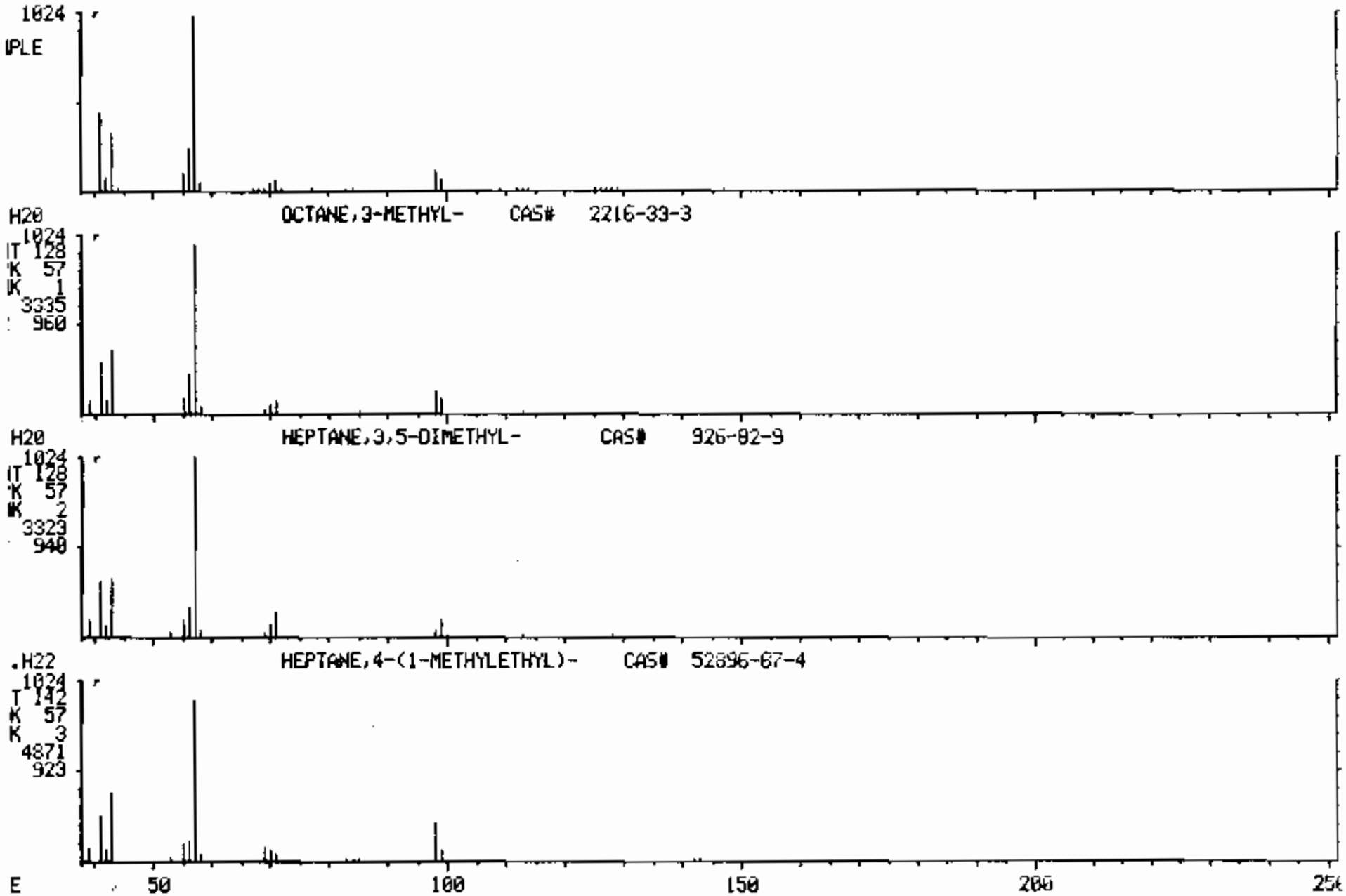


COMPUCHEM LABS

LIBRARY SEARCH
05/10/85 17:10:00 + 5:45
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEH TEST BL#1

DATA: GH049919A15 # 381
ENHANCED (10B 2N 0T)

BASE M/E: 57
RIC: 9895930.

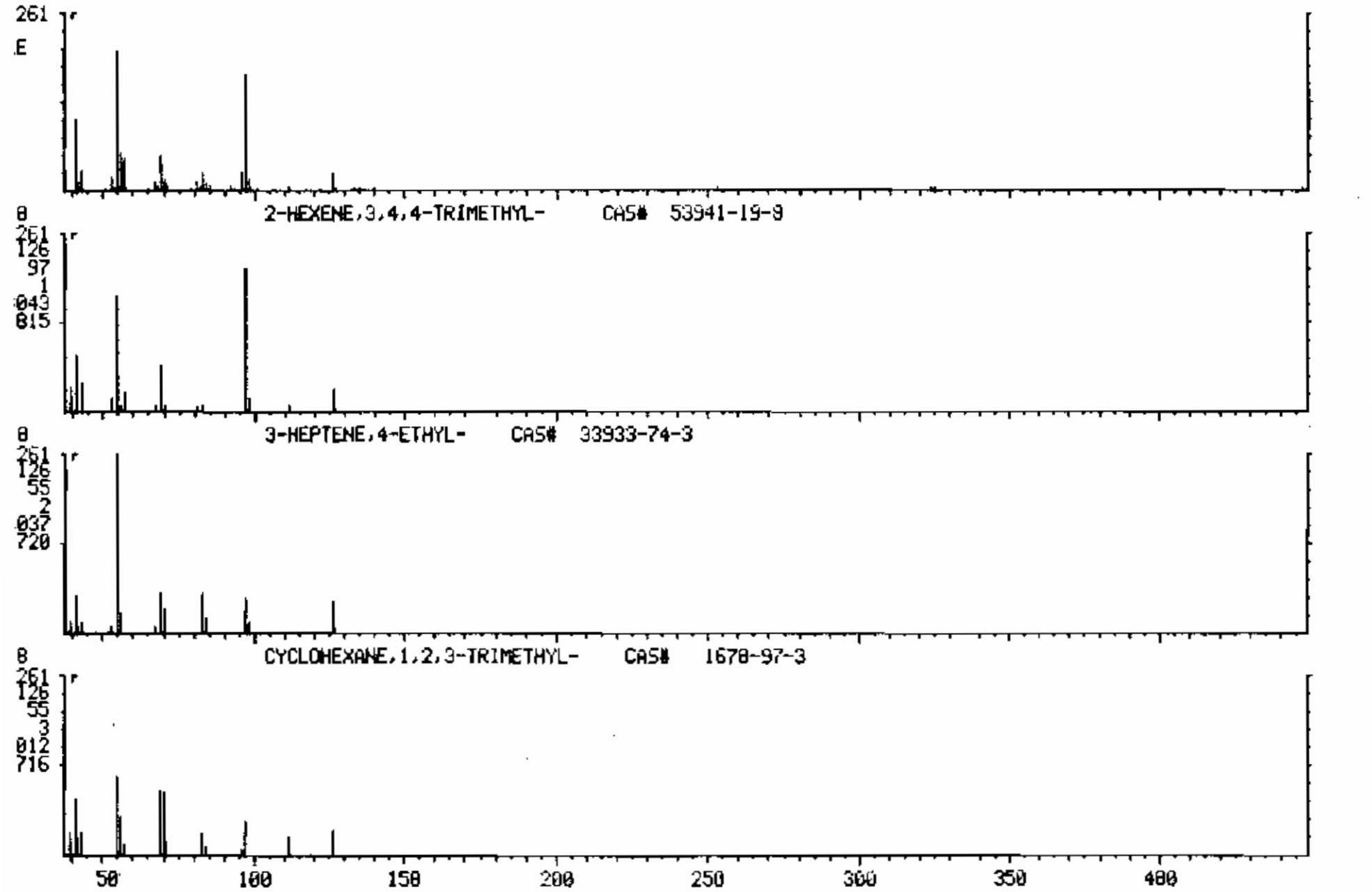


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:08 + 5:56
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 394
ENHANCED (18B 2N 0T)

BASE M/E: 55
RIC: 814079.

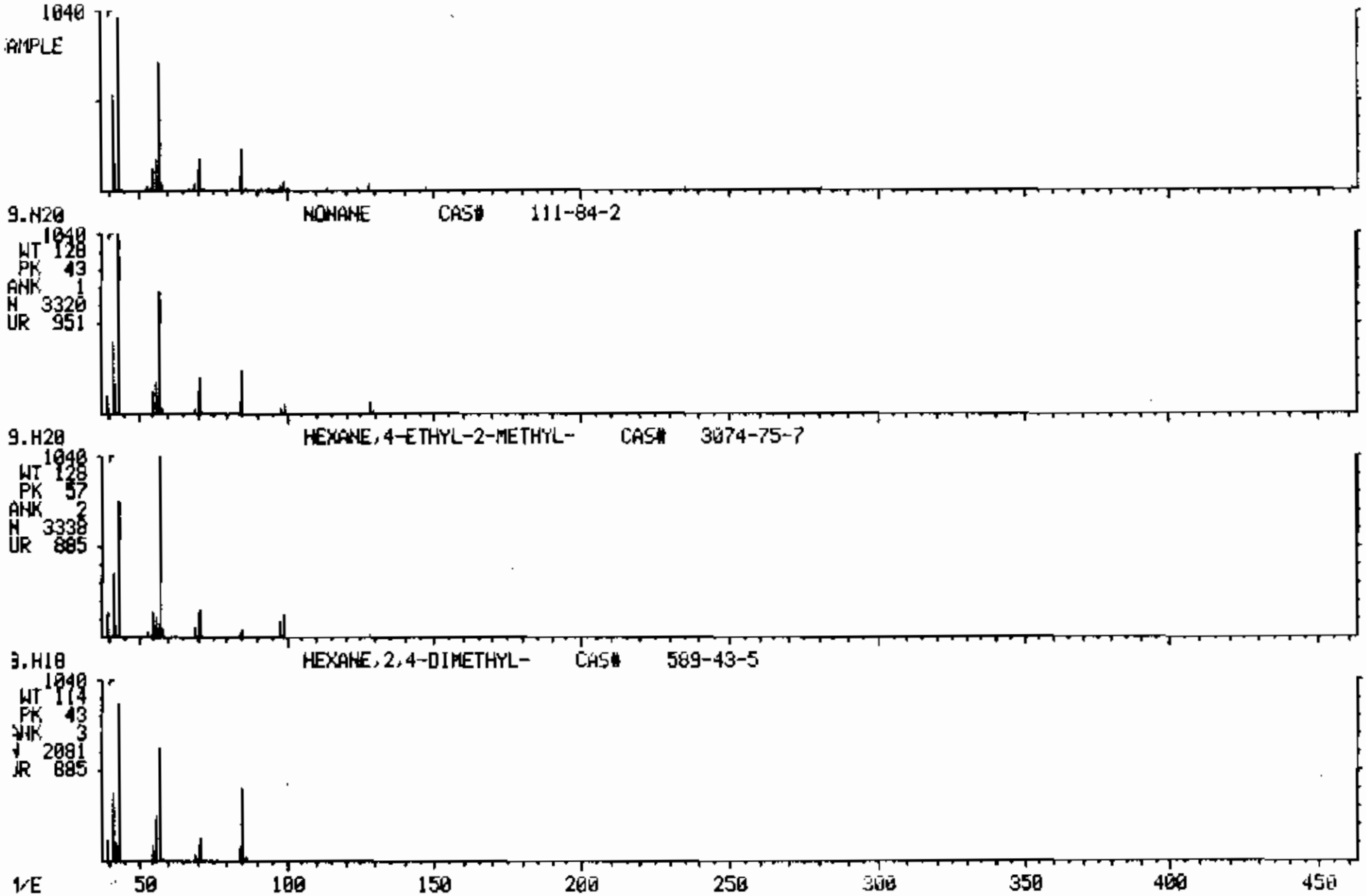


COMPUCHEM LABS

LIBRARY SEARCH
05/10/85 17:10:00 + 6:07
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 # 406
ENHANCED (100 2N 0T)

BASE M/E: 43
RIC: 2289660.

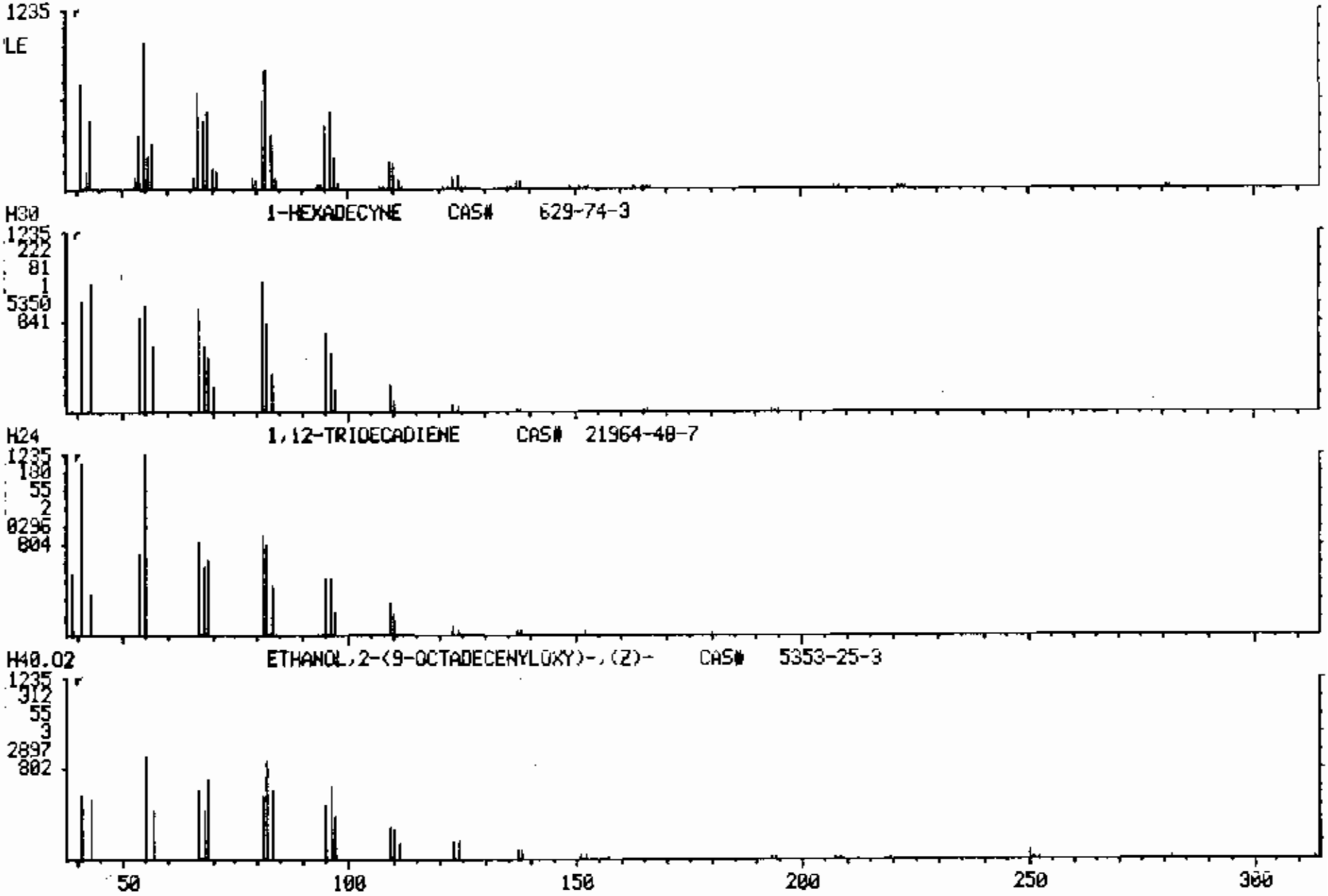


COMPUCHEM LABS

LIBRARY SEARCH
05/18/85 17:10:00 + 15:36
SAMPLE: 1 UL CC#49919(5-7-85) CASE#GEN TEST BL#1

DATA: GH049919A15 #1034
ENHANCED (10B 2N 0T)

BASE M/E: 55
RIC: 7790590.



GEN. TEST

CASE#: ~~6000~~ DUE DATE: 5/24

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 49919

JI) RI) DI) (:1)

J2I) R2I) D2I) (:1)

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code--- -717
Instrument Code---255
Compound List---144
Surrogate Std---393
Internal Std---035 (added by GC/MS)

SAS: EPA#: BLANK1 Dry Weight Factor H26

GC/MS ANALYSIS 200 µl conc

Volumes mixed: BN_____ul Acid_____ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/2/85
DFTPP Filename OH60518A15 Disk (307)
Standard Filename H[illegible] Disk (//)
Sample Filename [illegible] Disk ( )

ANALYST(S): Injection 875 Work-up 875

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,J
FH,NL,NH,TL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,DT,D
ED,IF,LA,DI,CO,RN,DW,NS

Extraneous Peak Search Results:
# of Peaks Found: 15

Quality Assurance Notice(s):
Notices Required 1

COMMENTS:

Disposition: [X] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

GC/MS Review SC Date 5/10/85 Auditor_____Date____/____/____

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): _____/_____

QA COMMENTS:

Initials_____ Date____/____/____

FINAL REVIEW: Initials_____ Date____/____/____

ERASOLID /

SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG
94	152	I	D4-1,4-DICHLOROBENZENE (IS#	493	1850000.	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	340.
610	94		PHENOL (G1#3) <108-95-2>				BDL	340
473	93		ANILINE (G1#4) <62-53-3>				BDL	340.
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	340.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	340.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	340.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	340.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	340.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	340.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	340
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	340.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	340.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	340
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	340.
440	77		NITROBENZENE (G1#16) <98-95				BDL	340.
460	136	I	D8-NAPHTHALENE (IS#2)	612	7050000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	340.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	340.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	340.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	1700.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	340.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	340.
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	340.
439	128		NAPHTHALENE (G2#9) <91-20-3				BDL	340.
75	127		4-CHLOROANILINE (G2#10) <10				BDL	340.
94	225		HEXACHLOROBUTADIENE (G2#11)				BDL	340.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	340.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	340.
495	164	I	D10-ACENAPHTHENE (IS#3)	785	3720000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	340.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	340.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	3400.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	340.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	1700
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	340.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	340.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	1700.
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	340
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	1700.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	1700
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	340.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	340.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	340
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	340.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	340.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	340.
483	138		4-NITROANILINE (G3#19) <100				BDL	1700.
467	188	I	D10-PHENANTHRENE (IS#4)	930	6170000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1700.
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	340.
4	248		4-BROMOPHENYL PHENYL ETHER				BDL	340
33	284		HEXACHLOROBENZENE (G4#5) <1				BDL	340.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	1700.

SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT LIMIT (UG/K
444	178		PHENANTHRENE (G4#7) <85-D1-				BDL	340
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	340
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	340
431	202		FLUORANTHENE (G4#10) <206-4				BDL	340
459	240	I	D12-CHRYSENE (IS#5)	1193	3490000.	40.0		
404	184		BENZIDINE (G5#2) <92-87-5>			~~46.1~~	~~BDL~~	1700
445	202		PYRENE (G5#3) <129-00-0>				BDL	340
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	340
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	680
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	340
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	340
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	340
497	264	I	D12-PERYLENE (IS#6)	1353	2320000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	340
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	340
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	340
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	340
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	340
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	340
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	340
619	112	S	2-FLUOROPHENOL (SS#1)			104.0	105.0%	
612	99	S	D5-PHENOL (SS#2)			104.0	106.0%	
447	82	S	D5-NITROBENZENE (SS#3)			44.2	90.0%	
448	172	S	2-FLUORDBIPHENYL (SS#4)			44.2	90.0%	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			87.2	89.0%	
496	244	S	D14-TERPHENYL (SS#7)			52.7	107.0%	
471	212	S	D10-PYRENE (SS#8)			52.4	106.0%	
CHECKSUMS:								
6593.		2206		5366	24600000.	774.8	693.0	

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
75	619	2-FLUOROPHENOL (SS#1)	104.0	98.4	105.0	20-140	X	
76	612	D5-PHENOL (SS#2)	104.0	98.4	106.0	20-140	X	
77	447	D5-NITROBENZENE (SS#3)	44.2	49.2	90.0	20-140	X	
78	448	2-FLUOROBIPHENYL (SS#4)	44.2	49.2	90.0	20-140	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	87.2	98.4	89.0	10-140	X	
80	496	D14-TERPHENYL (SS#7)	52.7	49.2	107.0	20-150	X	
81	471	D10-PYRENE (SS#6)	52.4	49.2	106.0	33-128*	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{0.6\text{ML}}{0.590} \times \frac{30.0\text{G}}{30.0\text{G}} \times \frac{1.0}{1.0} \times 33.3 = 33.900$$

* SPLIT FACTOR = (295/300)(6/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

GUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\text{ UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.6\text{ML}}{0.590\text{ML}} \times 1.0 = 2.030$$

EXTRACTION WORKSHEET

Semi-Volatiles / Miscellaneous

ASSIGNED TO: Sharyn + Audrey

DATE ASSIGNED 5-7-85

PAGE ____ OF ____

General Testing

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49859	-717	Comm.				30.05g	1.0	0.1		4.0			5/15	
49860	↓	↓				30.05g	1.0	0.1		4.0			5/15	
49919				BI		30.0g	1.0	0.1		4.0			5/15	
49920	↓	↓		B2		30.0g	1.0	0.1		4.0			5/15	

		S-Vol	Acid	B/N	PesL	TCDD	Other
SURROGATE	NO.	393			345		
	AMT.	0.5ml			0.5ml		
	LOT	11588			14448		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/326

FINAL VOLUME VERIFIED

SUPERVISOR REVIEWED M.D

EXTRACTS RECEIVED BY 5/15

Nº 6076

33

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705 MS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ComputChem
Lab Sample ID No: GH049824A12
Sample matrix: solid
Data Release Authorized By:

Case: GEN TEST
QC Report No: 279/30%
Contract No:
Date Sample Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 5-6-85
Date analyzed: 5-8-85
Conc/Dil Factor: 1.79
Percent moisture: 44%
Percent moisture (decanted):
pH:

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	18.	U	78-87-5	1,2-Dichloropropane	8.9	U
74-83-9	Bromomethane	18.	U	10061-02-6	trans-1,3-Dichloropropene	8.9	U
75-01-4	Vinyl Chloride	18.	U	79-01-6	Trichloroethene	8.9	U
75-00-3	Chloroethane	18.	U	124-48-1	Dibromochloromethane	8.9	U
75-09-2	Methylene Chloride	20.		79-00-5	1,1,2-Trichloroethane	8.9	U
67-64-1	Acetone	27.		71-43-2	Benzene	8.9	U
75-15-0	Carbon Disulfide	8.9	U	10061-01-5	cis-1,3-Dichloropropene	8.9	U
75-35-4	1,1-Dichloroethene	8.9	U	110-75-8	2-Chloroethyl Vinyl Ether	18.	U
75-34-3	1,1-Dichloroethane	8.9	U	75-25-2	Bromoform	8.9	U
156-60-5	trans-1,2-Dichloroethene	8.9	U	591-78-6	2-Hexanone	18.	U
67-66-3	Chloroform	8.9	U	108-10-1	4-Methyl-2-pentanone	18.	U
107-06-2	1,2-Dichloroethane	8.9	U	127-18-4	Tetrachloroethene	8.9	U
78-93-3	2-Butanone	18.	U	108-88-3	Toluene	8.9	U
71-55-6	1,1,1-Trichloroethane	8.9	U	108-90-7	Chlorobenzene	8.9	U
56-23-5	Carbon Tetrachloride	8.9	U	100-41-4	Ethyl Benzene	8.9	U
108-05-4	Vinyl Acetate	18.	U	100-42-5	Styrene	8.9	U
75-27-4	Bromodichloromethane	8.9	U		Total Xylenes	8.9	U
79-34-5	1,1,2,2-Tetrachloroethane	8.9	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that [illegible] the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

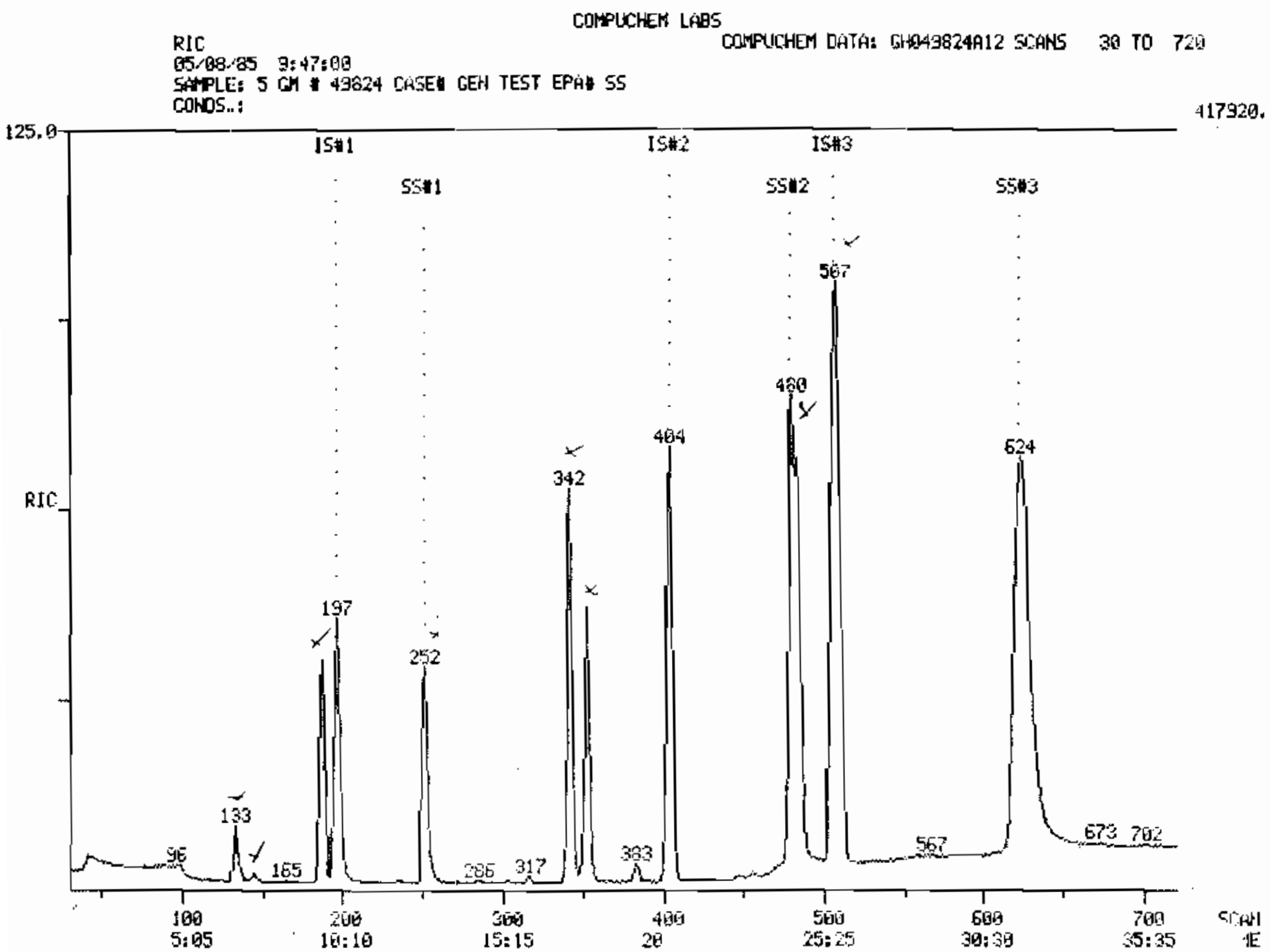
Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

50705H MS

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		None			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH043824A12 SCANS 30 TO 720
05/08/85 9:47:00
SAMPLE: 5 GM # 43824 CASE# GEN TEST EPA# SS
CONDS.:
417920.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
197
252
342
404
480
567
624
133
96
165
285
317
383
567
673
702
100
5:05
200
10:10
300
15:15
400
20
500
25:25
600
30:30
700
35:35
SCAN

Internal Standard Area Monitor

Method: E238 Filename: CH049824A12 Date: 05/08/85
Shift Std: CS850508C12 Time: 9:47

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	95720.	104753.	-8.	PASS
* 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)	381758.	387466.	-0.	PASS
* D5 CHLOROBENIENE(INTERNAL STANDARD)	354475.	360445.	-1.	PASS

PROCEDURE: RH DIAGNOSTIC REPORT 5/08/85 10:25:15
DATA FILE: GH049824A12
REFERENCE: E238
METHOD: E238 INITIALIIATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	13	1	53	E238S/E238U

42 COMPOUNDS PROCESSED, 13 FOUND

COMPOUND			SEARCH				BAT		CHRO			
NO	LIB	ENTRY	REF	PREO	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E5	1	-197	197	197	.	1	980	.	128	197	.	1
2	E6	1	-403	404	404	.	1	993	.	114	404	.	1
3	E7	1	-505	506	506	.	1	975	.	117	505	-1	1
4	E5	2	-36	37	.	.	.	.	.	50	.	.	.
5	E5	3	-55	56	.	.	.	.	.	94	.	.	.
6	E5	4	-70	71	.	.	.	.	.	62	.	.	.
7	E5	5	-90	91	.	.	.	.	.	64	.	.	.
8	E5	6	-133	134	133	-1	1	970	.	84	133	.	1
9	E5	7	-144	145	.	.	.	.	.	43	144	.	1
10	E5	8	-164	165	.	.	.	.	.	76	165	.	1
11	E5	9	-187	188	188	.	1	982	.	96	188	.	1
12	E5	10	-213	214	.	.	.	.	.	63	.	.	.
13	E5	11	-227	228	.	.	.	.	.	96	.	.	.
14	E5	12	-238	239	.	.	.	.	.	83	239	.	1
15	E5	13	-253	254	.	.	.	.	.	62	254	.	1
16	E6	2	-251	252	252	.	1	944	.	72	252	.	1
17	E6	3	-280	281	.	.	.	.	.	97	.	.	.
18	E6	4	-288	289	.	.	.	.	.	117	.	.	.
19	E6	5	-289	290	.	.	.	.	.	43	.	.	.
20	E6	6	-297	298	.	.	.	.	.	83	.	.	.
21	E6	7	-325	326	.	.	.	.	.	63	.	.	.
22	E6	8	-330	331	.	.	.	.	.	75	.	.	.
23	E6	9	-341	342	342	.	1	985	.	130	342	.	1
24	E6	10	-353	354	.	.	.	.	.	129	.	.	.
25	E6	11	-355	356	.	.	.	.	.	97	.	.	.
26	E6	12	-352	353	353	.	1	992	.	78	352	-1	1
27	E6	13	-356	357	.	.	.	.	.	75	.	.	.
28	E6	14	-377	378	.	.	.	.	.	63	.	.	.
29	E6	15	-407	408	.	.	.	.	.	173	.	.	.
30	E7	2	-418	419	.	.	.	.	.	43	421	.	2
31	E7	3	-450	451	.	.	.	.	.	43	.	.	.
32	E7	4	-455	456	.	.	.	.	.	164	.	.	.
33	E7	5	-454	455	.	.	.	.	.	83	.	.	.
34	E7	6	-483	484	483	-1	1	983	.	92	483	.	1
35	E7	7	-508	509	508	-1	1	992	.	112	508	.	1
36	E7	8	-557	558	.	.	.	.	.	186	.	.	.
37	E7	9	-661	662	.	.	.	.	.	104	.	.	.
38	E7	10	-670	671	.	.	.	.	.	106	.	.	.
39	E7	11	-670	671	.	.	.	.	.	106	.	.	.
40	E8	2	-251	252	252	.	1	991	.	65	252	.	1
41	E8	3	-622	623	623	.	1	991	.	95	623	.	1
42	E8	4	-479	480	479	-1	1	993	.	98	479	.	1

QUANTITATION REPORT FILE: GH049B24A12

DATA: GH049B24A12.TI
05/08/85 9:47:00
SAMPLE: 5 GM # 49824 CASE# GEN TEST EPA# SS
ONDS. :
UBMITTED BY: 12 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUORDBENZENE
42	# DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	197	10:01	1	1.000	A BV	95721.	50.000 UG/KG	8.99
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	133	6:46	1	0.675	A BB	28354.	11.487 UG/KG	2.06
7	43	144	7:19	1	0.731	A BB	13922.	15.003 UG/KG	2.70
8	76	165	8:23	1	0.838	A BB	1585.	0.252 UG/KG	0.05
9	96	188	9:33	1	0.954	A BV	89498.	42.351 UG/KG	7.61
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	239	12:09	1	1.213	A BB	1264.	0.253 UG/KG	0.05
13	62	254	12:55	1	1.289	A BB	932.	0.275 UG/KG	0.05
14	114	404	20:32	14	1.000	A BV	381789.	50.000 UG/KG	8.99
15	72	252	12:49	14	0.624	A BB	6310.	13.964 UG/KG	2.51
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	342	17:23	14	0.847	A BB	150986.	38.622 UG/KG	6.94
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	352	17:54	14	0.871	A BB	241813.	44.472 UG/KG	7.99
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BV	354495.	50.000 UG/KG	8.99
30	43	421	21:24	29	0.834	A*BB	1033.	0.256 UG/KG	0.05
31	43	NOT FOUND							
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	483	24:33	29	0.956	A BB	179245.	43.089 UG/KG	7.75
35	112	508	25:49	29	1.006	A BV	270438.	40.971 UG/KG	7.36
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	252	12:49	1	1.279	A BB	172521.	53.543 UG/KG	9.62
41	95	623	31:40	29	1.234	A BB	277424.	48.652 UG/KG	8.75
42	98	479	24:21	1	2.431	A BB	339800.	53.142 UG/KG	9.55

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50		10.000			50.00		1.072	
3	2:48		10.000			50.00		1.438	
4	3:33		10.000			50.00		1.232	
5	4:34		10.000			50.00		0.618	
6	6:46	1.00	5.000	0.14	11.49	50.00	0.296	1.289	0.23
7	7:19	1.00	10.000	0.07	15.00	50.00	0.145	0.485	0.30
8	8:20	1.01	5.000	0.17	0.25	50.00	0.017	3.281	0.01
9	9:30	1.01	5.000	0.19	42.35	50.00	0.935	1.104	0.85
10	10:50		5.000			50.00		1.976	
11	11:32		5.000			50.00		1.157	
12	12:06	1.00	5.000	0.24	0.25	50.00	0.013	2.611	0.01
13	12:52	1.00	5.000	0.26	0.27	50.00	0.010	1.771	0.01
14	20:29	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	13.96	50.00	0.017	0.059	0.28
16	14:14		5.000			50.00		0.595	
17	14:38		5.000			50.00		0.642	
18	14:41		10.000			50.00		0.491	
19	15:06		5.000			50.00		0.643	
20	16:31		5.000			50.00		0.347	
21	16:46		5.000			50.00		0.240	
22	17:20	1.00	5.000	0.17	38.62	50.00	0.395	0.512	0.77
23	17:57		5.000			50.00		0.595	
24	18:03		5.000			50.00		0.330	
25	17:54	1.00	5.000	0.17	44.47	50.00	0.633	0.712	0.89
26	18:06		5.000			50.00		0.684	
27	19:10		10.000			50.00		0.232	
28	20:41		5.000			50.00		0.696	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.01	10.000	0.08	0.26	50.00	0.003	0.569	0.01
31	22:52		10.000			50.00		0.452	
32	23:08		5.000			50.00		0.619	
33	23:05		5.000			50.00		0.666	
34	24:33	1.00	5.000	0.19	43.09	50.00	0.506	0.587	0.86
35	25:49	1.00	5.000	0.20	40.97	50.00	0.763	0.931	0.82
36	28:19		5.000			50.00		0.501	
37	33:36		5.000			50.00		1.257	
38	34:03		5.000			50.00		0.717	
39	34:03		5.000			100.00		0.359	
40	12:46	1.00	10.000	0.13	53.54	50.00	1.802	1.683	1.07
41	31:37	1.00	10.000	0.12	48.65	50.00	0.783	0.804	0.97
42	24:21	1.00	10.000	0.24	53.14	50.00	3.550	3.340	1.06

VOA
GC/MS WORKSHEET COMPOUND-EPA#: 49924

RE [ ] R2[ ] DI [ ] (:1)
R3[ ] RA[ ] D2[ ] (:1)

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code---155
Instrument Code---157
Compound List---146
Surrogate Std--- 174
Internal Std--- 5

SAS: EPA#: 55 279/308 Dry Weight Factor 1.80

GC/MS ANALYSIS
Amount Purged: [✓] 10gms/Kg soil or [ ]Dilution ____ul/10000ul/Kg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul 10ul spike added
BFB Filename BF7.5050Bu12 Disk( )
Blank Filename GC8.5050B4u12 Disk (127)
Standard Filename G.825052u12 Disk (|)
Sample Filename GA049924A12 Disk (|)

ANALYST(S): Injection 5m Workup 5m

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,RA,ES,SM,DS,SL,SH,LA,DA

Non-Entry Codes IM,IR,IP,SN,CT,CS,PC,NR,BP,NA,DT,CC,PN,DW,SI,SF,AP,ES,CT,RI,NO,NS

Extractable Peak Library Results:
# of Peaks Found: 0

Disposition: [✓] Complete
[ ] Reprep neat required
[ ] Reprep using ____g
[ ] Dilute (:1)

Volatile Unknown Library Results:
Volatile Reported ___

COMMENTS:

REVIEWED BY: BRH Date 5 / 10 /85 Auditor Date / /

REPORT DISPOSITION Total # of Injections: 1
Final Reportable Package(s): GH049824A12

QA COMMENTS:

Initials Date / /
Initials Date / /

Volatile - Low Level Solid

No	CC ID#	Lab Cde	Compound Name	Quant Report Value	X	Result(#) (ug/kg)		Detection Limit (ug/kg)
2	221	___	CHLOROMETHANE			BDL		18.0
3	220	___	BROMOMETHANE			BDL		18.0
4	231	___	VINYL CHLORIDE			BDL		18.0
5	209	___	CHLOROETHANE			BDL		18.0
6	222	___	METHYLENE CHLORIDE	11.5		20.0	B	8.9
7	252	___	ACETONE (2-PROPANONE)	15.0		27.0		18.0
8	254	___	CARBON DISULFIDE			BDL		8.9
9	216	___	1,1-DICHLOROETHYLENE	42.4		76.0		8.9
10	214	___	1,1-DICHLOROETHANE			BDL		8.9
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL		8.9
12	211	___	CHLOROFORM			BDL		8.9
13	215	___	1,2-DICHLOROETHANE			BDL		8.9
15	253	___	2-BUTANONE	~~14.0~~		~~25.0~~ BDL		18.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL		5.9
17	206	___	CARBON TETRACHLORIDE			BDL		8.9
18	257	___	VINYL ACETATE			BDL		18.0
19	212	___	BROMODICHLOROMETHANE			BDL		8.9
20	217	___	1,2-DICHLOROPROPANE			BDL		8.9
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL		8.9
22	229	___	TRICHLOROETHYLENE	38.6		69.0		8.9
23	208	___	CHLORODIBROMOMETHANE			BDL		8.9
24	228	___	1,1,2-TRICHLOROETHANE			BDL		8.9
25	203	___	BENZENE	44.5		80.0		8.9
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL		8.9
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL		18.0
3	205	___	BROMOFORM			BDL		8.9
30	255	___	2-HEXANONE			BDL		18.0
31	256	___	4-METHYL-2-PENTANONE			BDL		18.0
32	224	___	TETRACHLOROETHENE			BDL		8.9
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL		8.9
34	225	___	TOLUENE	43.1		77.0		8.9
35	207	___	CHLOROBENZENE	41.0		73.0		8.9
36	219	___	ETHYLBENZENE			BDL		8.9
37	251	___	STYRENE			BDL		8.9
38	239	___	M-XYLENE			BDL		8.9
39	240/	___	241 O- & P-XYLENE			BDL		8.9

Volatile - Low Level Solid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	53.5	50.0	107.0	50-160	X	
41		BROMOFLUOROBENZENE	48.6	50.0	97.0	50-160	X	
42		DB-TOLUENE	53.1	50.0	106.0	50-160	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) BromoChloromethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5.0\ g}{\text{Wet Weight of Sample (g)}} \times \text{GC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ g}{5.0\ (g)} \times \frac{1.0}{} \times \frac{1.8}{} = 1.790$$

Quant Report Amount Spiked Conversion Factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

(19)

ASSIGNED TO Ron

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
~~49796~~	~~55~~	gen Lit			~~5.00g~~	~~5-6-85~~					
49818			1		5.00g			/			
49823			BS		Blank						
49824			SS	49826	5.03g			/			
49825			SS	49826	5.05g			/			
49827					5.00g			/			
49828					5.01g			/			
49829					5.01g			/			
49830					5.09g			/			
49831					5.04g			/			
49859					5.10g			/			
49860					5.00g	↓		/			
49911			B		10ml	5-6-85					
49912			B		Blank	↓					
			B								

Surrogate No. _____
Amount _____
Lot _____

Extracts Received 5/6/85 BD

Schedule Reference 299/308 ✓
Manual Counter 278/344 ✓

Issued 5/7 PM

Environmental Protection Agency, CLP Sample Management Office
P. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705* MS

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 05-21-85
Date analyzed: 05-22-85
Conc/Dil Factor: 33.20

CAS Number		ug/kg		CAS Number		ug/kg	
62-75-9	N-Nitrosodimethylamine	330	U	99-09-2	3-Nitroaniline	1700	U
108-95-2	Phenol	330	U	83-32-9	Acenaphthene	330	U
62-53-3	Aniline	330	U	51-28-5	2,4-Dinitrophenol	1700	U
111-44-4	bis(2-Chloroethyl) ether	330	U	100-02-7	4-Nitrophenol	1700	U
95-57-8	2-Chlorophenol	330	U	132-64-9	Dibenzofuran	330	U
541-73-1	1,3-Dichlorobenzene	330	U	121-14-2	2,4-Dinitrotoluene	330	U
106-46-7	1,4-Dichlorobenzene	330	U	606-20-2	2,6-Dinitrotoluene	330	U
100-51-6	Benzyl Alcohol	330	U	84-66-2	Diethylphthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U	7005-72-3	4-Chlorophenyl Phenyl ether	330	U
95-48-7	2-Methylphenol	330	U	86-73-7	Fluorene	330	U
39638-32-9	bis(2-Chloroisopropyl) ether	330	U	100-01-6	4-Nitroaniline	1700	U
106-44-5	4-Methylphenol	330	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
621-64-7	N-Nitroso-Dipropylamine	330	U	86-30-6	N-nitrosodiphenylamine (1)	330	U
67-72-1	Hexachloroethane	330	U	101-55-3	4-Bromophenyl Phenyl ether	330	U
98-95-3	Nitrobenzene	330	U	118-74-1	Hexachlorobenzene	330	U
78-59-1	Isophorone	330	U	87-86-5	Pentachlorophenol	1700	U
88-75-5	2-Nitrophenol	330	U	85-01-8	Phenanthrene	330	U
105-67-9	2,4-Dimethylphenol	330	U	120-12-7	Anthracene	330	U
65-85-0	Benzoic Acid	1700	U	84-74-2	Di-n-butylphthalate	330	U
111-91-1	bis(2-Chloroethoxy) methane	330	U	206-44-0	Fluoranthene	330	U
120-83-2	2,4-Dichlorophenol	330	U	92-87-5	Benzidine	1700	U
120-82-1	1,2,4-Trichlorobenzene	330	U	129-00-0	Pyrene	330	U
91-20-3	Naphthalene	330	U	85-68-7	Butyl Benzyl Phthalate	330	U
106-47-8	4-Chloroaniline	330	U	91-94-1	3,3'-Dichlorobenzidine	660	U
87-68-3	Hexachlorobutadiene	330	U	56-55-3	Benzo(a)anthracene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U	117-81-7	bis(2-ethylhexyl)phthalate	330	U
91-57-6	2-Methylnaphthalene	330	U	218-01-9	Chrysene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U	117-84-0	Di-n-octyl Phthalate	330	U
88-06-2	2,4,6-Trichlorophenol	330	U	205-99-2	Benzo(b)fluoranthene	210	J
95-95-4	2,4,5-Trichlorophenol	1700	U	207-08-9	Benzo(k)fluoranthene	210	J
91-58-7	2-Chloronapthalene	330	U	50-32-8	Benzo(a)pyrene	330	U
88-74-4	2-Nitroaniline	1700	U	193-39-5	Indeno(1,2,3-cd)pyrene	330	U
131-11-3	Dimethyl Phthalate	330	U	53-70-3	Dibenz(a,h)anthracene	330	U
208-96-8	Acenaphthylene	330	U	191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-10-1	2-PENTANONE,4-METHYL- ALKANONE (acetone contamination)	SEMI1	233	360.	JB
2	108-88-3	BENZENE,METHYL- TOLUENE	SEMI1	263	2000.	JB
3	589-43-5	HEXANE,2,4-DIMETHYL- ALKANE	SEMI1	272	540.	JB
4	15870-10-7	1-HEPTENE,2-METHYL- ALKENE OR CYCLOALKANE	SEMI1	287	340.	JB
5	111-65-9	OCTANE ALKANE	SEMI1	301	1000.	JB
6	1678-91-7	CYCLOHEXANE,ETHYL- CYCLOALKANE	SEMI1	333	1400.	JB
7	123-42-2	2-PENTANONE,4-HYDROXY-4-METHYL-	SEMI1	344	5400.	JB
8	1839-63-0	CYCLOHEXANE,1,3,5-TRIMETHYL- ISOMER	SEMI1	351	260.	JB
9	3074-71-3	HEPTANE,2,3-DIMETHYL- ISOMER	SEMI1	355	380.	JB
10	2213-23-2	HEPTANE,2,4-DIMETHYL- ISOMER	SEMI1	362	1400.	JB
11	2216-33-3	OCTANE,3-METHYL- ALKANE	SEMI1	369	1800.	JB
12	111-84-2	NONANE ISOMER	SEMI1	392	370.	JB
13	629-78-7	HEPTADECANE ALKANE	SEMI1	788	590.	J
14	629-74-3	1-HEXADECYNE ALIPHATIC, UNSATURATED	SEMI1	974	1300.	J

MR
5-24-85

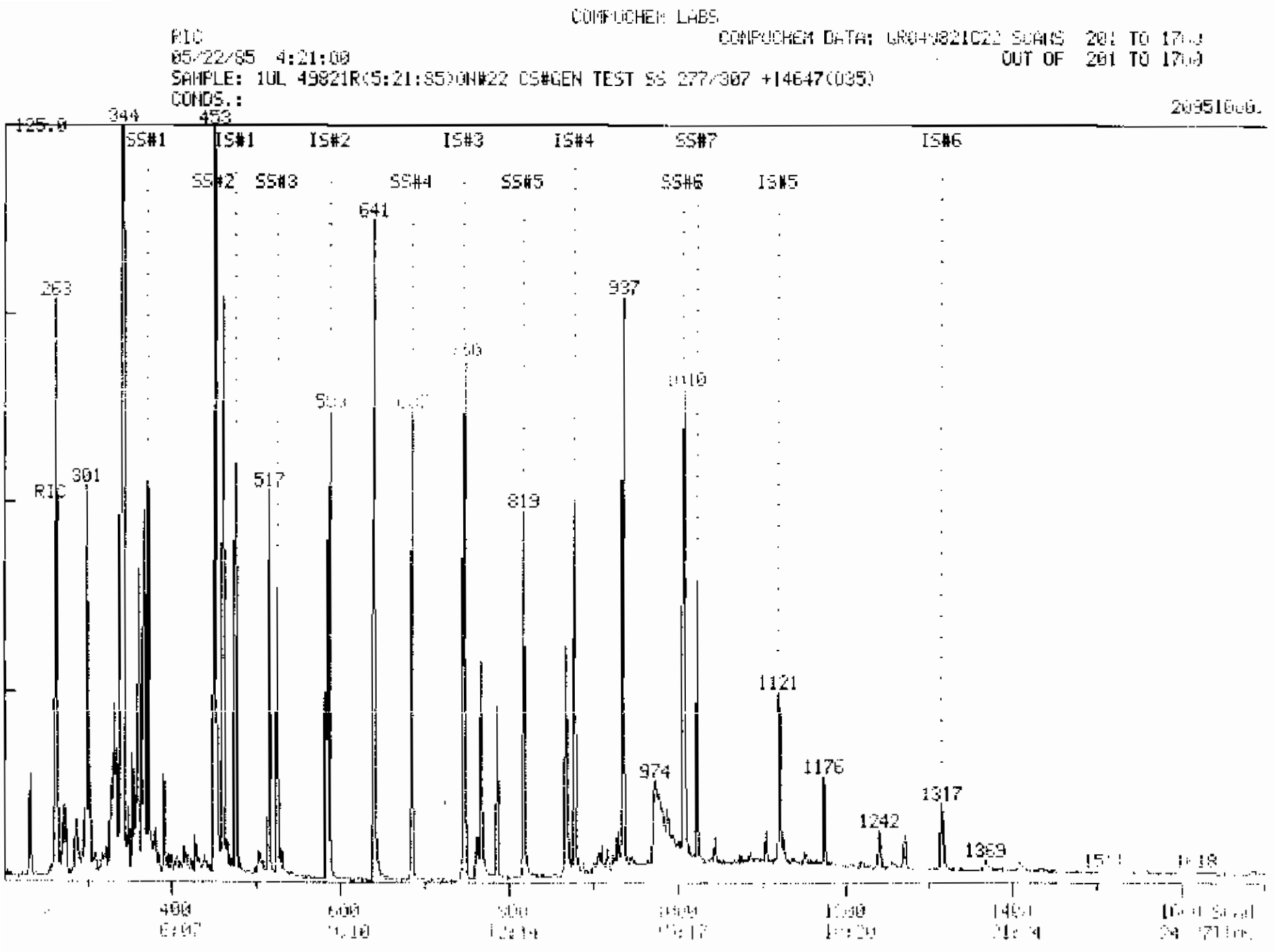
SAMPLE NUMBER

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
15	629-94-7	HENEICOSANE ALKANE	SEMI1	1045	210.	J
16	629-78-7	HEPTADECANE ALKANE	SEMI1	1106	190.	J
17	629-94-7	HENEICOSANE ALKANE	SEMI1	1176	720.	J
18	638-66-4	OCTADECANAL OXYGENATED	SEMI1	1242	660.	J
19	629-94-7	HENEICOSANE ALKANE	SEMI1	1273	640.	J

MR
5-24-85


COMPUCHEM LABS
RIC
05/22/85 4:21:00
SAMPLE: 1UL 49821R(5:21:85)ON#22 CS#GEN TEST SS 277/307 +14647(035)
CONDS.:
COMPUCHEM DATA: GR04821C22 SCANS 201 TO 17[illegible]
OUT OF 201 TO 17[illegible]
125.0
344
453
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
641
263
937
301
RIC
517
819
1121
974
1176
1317
1242
1359
400
600
800
1000
1200
1400

Internal Standard Area Monitor

Method: SEMI1 Filename: GR04?021022 Date: 05/22/9?
5-Eft Std: HG850521022 Time: 4:21

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*** D4-1,4-DICHLOROBENZENE (IS#1)	2149950.	1617980.	33.	Pass
*** D8-NAPHTHALENE (IS#2)	6976860.	5625050.	24.	Pass
*** D10-ACENAPHTHENE (IS#3)	4050070.	2987070.	36.	Pass
*** D10-PHENANTHRENE (IS#4)	6168060.	5065310.	22.	Pass
*** D12-CHRYSENE (IS#5)	3102520.	3587800.	-13.	Pass
*** D12-PERYLENE (IS#6)	2312630.	3700150.	-36.	Pass

1R

PROCEDURE: RK DIAGNOSTIC REPORT 5/22/85 4:42:5?
DATA FILE: GR049821C22
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	34	53	14	1	134	SEMI1S1/SEMI1U1
3	3	5	37	28	14	2	112	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED. 28 FOUND

COMPOUND		SEARCH						SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	01	1	-477	477	477	.	1	996	.	152	477	.	1
2	03	1	-746	747	747	.	1	998	.	164	747	.	1
3	02	1	-588	589	589	.	1	989	.	136	589	.	1
4	07	2	-373	373	373	.	1	910	.	112	373	.	1
5	01	2	-231	231	.	.	.	.	.	42	233	.	1
6	01	3	-454	455	.	.	.	.	.	94	454	.	1
7	01	4	-453	454	.	.	.	.	.	93	454	.	1
8	01	5	-459	460	.	.	.	.	.	93	463	.	2
9	01	6	-462	463	.	.	.	.	.	128	463	.	1
10	01	7	-473	474	478	4	3	902	.	146	478	.	1
11	01	8	-478	479	478	-1	1	926	.	146	478	.	1
12	01	9	-492	493	.	.	.	.	.	108	.	.	.
13	01	10	-494	495	.	.	.	.	.	146	496	.	3
14	01	11	-504	503	.	.	.	.	.	108	.	.	.
15	01	12	-506	507	.	.	.	.	.	45	505	.	3
16	01	13	-516	517	.	.	.	.	.	108	519	.	1
17	01	14	-517	518	.	.	.	.	.	70	517	.	1
18	01	15	-520	521	.	.	.	.	.	117	.	.	.
19	01	16	-529	530	.	.	.	.	.	77	527	.	3
20	02	2	-549	550	.	.	.	.	.	82	550	.	2
21	02	3	-556	557	.	.	.	.	.	139	.	.	.
22	02	4	-561	562	.	.	.	.	.	122	.	.	.
23	02	5	-574	575	.	.	.	.	.	122	.	.	.
24	02	6	-570	571	.	.	.	.	.	93	.	.	.
25	02	7	-577	578	.	.	.	.	.	162	.	.	.
26	02	8	-584	585	585	.	1	959	.	180	585	.	1
27	02	9	-589	590	.	.	.	.	.	128	590	.	1
28	02	10	-597	598	.	.	.	.	.	127	.	.	.
29	02	11	-606	607	.	.	.	.	.	225	.	.	.
30	02	12	-640	641	641	.	1	920	.	107	641	.	1
31	02	13	-651	652	.	.	.	.	.	142	651	.	2
32	03	2	-671	672	.	.	.	.	.	237	.	.	.
33	03	3	-679	680	.	.	.	.	.	196	.	.	.
34	03	4	-679	680	.	.	.	.	.	196	.	.	.
35	03	5	-694	695	.	.	.	.	.	162	.	.	.
36	03	6	-707	708	.	.	.	.	.	65	.	.	.
37	03	7	-726	727	.	.	.	.	.	163	728	.	2
38	03	8	-732	733	.	.	.	.	.	152	734	.	.
39	03	9	-707	708	.	.	.	.	.	138	.	.	.
40	03	10	-749	750	750	.	1	982	.	153	750	.	1
41	03	11	-759	754						184			
42	03	12	-763	764	.	.	.	.	.	134	763	.	1
43	03	13	-763	764	.	.	.	.	.	168	.	.	.
44	03	14	-766	767	766	1	1	915	.	89	768	.	1
45	03	15	-732	733	.	.	.	.	.	165	.	.	.
46	03	16	-789	791	.	.	.	.	.	149	791	.	1
47	03	17	-794	795						204			

56	07	3	-453	454	453	-1	1	955	.	99	453	.
57	07	4	-527	528	527	-1	1	959	.	82	527	.
58	07	5	-686	687	687	.	1	972	.	172	687	.
59	07	6	-817	819	819	.	1	954	.	141	819	.
60	04	1	-877	879	879	.	1	992	.	188	879	.
61	05	1	-1118	1121	1121	.	1	993	.	240	1121	.
62	06	1	-1314	1317	1317	.	5	997	.	264	1317	.
63	04	2	-803	805	.	.	.	.	.	198	.	.
64	04	3	-805	807	.	.	.	.	.	169	807	.
65	04	4	-837	839	.	.	.	.	.	248	.	.
66	04	5	-850	852	.	.	.	.	.	284	.	.
67	04	6	-867	869	868	-1	1	936	.	266	868	.
68	04	7	-879	881	881	.	1	969	.	178	881	.
69	04	8	-879	881	881	.	1	947	.	178	881	.
70	04	9	-935	937	937	.	1	955	.	149	937	.
71	04	10	-987	989	990	1	1	959	.	202	990	.
72	05	2	-1006	1006	.	.	.	.	.	184	1008	.
73	05	3	-1007	1009	1010	1	1	954	.	202	1010	.
74	05	4	-1068	1070	.	.	.	.	.	149	1072	.
75	05	5	-1115	1117	.	.	.	.	.	252	.	.
76	05	6	-1117	1119	1120	1	2	930	.	228	1120	.
77	05	7	-1124	1126	1127	1	.	976	.	149	1127	.
78	05	8	-1121	1123	1120	-3	1	930	.	228	1120	.
79	06	2	-1195	1197	.	.	.	.	.	149	1200	.
80	06	3	-1255	1258	.	.	.	.	.	252	1256	.
81	06	4	-1255	1258	.	.	.	.	.	252	1256	.
82	06	5	-1304	1307	.	.	.	.	.	252	1308	.
83	06	6	-1558	1561	.	.	.	.	.	276	1558	.
84	06	7	-1565	1566	.	.	.	.	.	278	1566	.
85	06	8	.	.	.	.	.	.	.	276	.	.
86	07	7	-1022	1024	1024	.	1	971	.	244	1024	.
87	06	2	-1006	1008	1008	.	1	914	.	212	1008	.

QUANTITATION REPORT FILE: GR049821C22

DATA: GR049821C22.TI
05/22/85 4:21:00
SAMPLE: 1UL 49821R(5:21:85)ON#22 CS#CEN TEST 65 277/307 +14647(035)
IONS: :
SUBMITTED BY: 22 ANALYST: 755

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*** D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLORDBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*** D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
-	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
76	### D5-PHENOL (SS#2)
77	### D5-NITROBENZENE (SS#3)
78	### 2-FLUOROBIPHENYL (SS#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#6)
81	### D10 PYRENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	477	7:17	1	1.000	A BV	2149950.	40.000	NG	2.87
2	42	233	3:34	1	0.488	A*BV	293990.	6.940	NG	0.50#
3	94	454	6:56	1	0.952	A BV	7704990.	74.077	NG	5.32 Y
4	93	454	6:56	1	0.952	A*BV	132864.	1.630	NG	0.12
5	93	463	7:05	1	0.971	A*VB	164384.	1.854	NG	0.13
6	128	463	7:05	1	0.971	A BV	6061340.	80.221	NG	5.76 Y
7	146	478	7:18	1	1.002	A BV	2181310.	26.362	NG	1.89#
8	146	478	7:18	1	1.002	A BV	2181310.	26.647	NG	1.91 Y
9	108	NOT FOUND								
10	146	496	7.35	1	1.040	A*BB	7552	0.098	NG	0.01
11	108	NOT FOUND								
12	45	505	7:43	1	1.059	A*VV	240867.	1.881	NG	0.14
13	108	519	7:56	1	1.088	A BV	2634.	0.035	NG	0.00
14	70	517	7:54	1	1.084	A VV	1377360.	37.877	NG	2.72 Y
15	117	NOT FOUND								
16	77	527	8:03	1	1.105	A*VB	34832	0.255	NG	0.02
17	136	589	9:00	17	1.000	A BV	6976860.	40.000	NG	2.87
18	82	556	8:24	17	0.934	A*VV	1123.	0.1E3	NG	0.01
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
20	122	NOT FOUND							
21	122	NOT FOUND							
22	93	NOT FOUND							
23	162	NOT FOUND							
24	180	585	8:56	17	0.993	A BV	2133340.	35.444 NG	2.54
25	128	590	9:01	17	1.002	A BB	6464.	0.034 NG	0.00
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	641	9:48	17	1.088	A BV	5633490.	78.294 NG	5.62
29	142	651	9:57	17	1.105	A*VV	74464.	0.619 NG	0.04
30	164	747	11:25	30	1.000	A BV	4050070.	40.000 NG	2.87
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	NOT FOUND							
35	65	NOT FOUND							
36	163	728	11:08	30	0.975	A*BB	1824.	0.013 NG	0.00
37	152	734	11:13	30	0.983	A BB	10090.	0.058 NG	0.00
38	138	NOT FOUND							
39	153	750	11:28	30	1.004	A BV	4469700.	37.570 NG	2.70
40	184	NOT FOUND							
41	139	763	11:40	30	1.021	A BV	489600.	4.860 NG	0.35
42	168	NOT FOUND							
43	89	768	11:44	30	1.028	A BV	1250460	25.397 NG	1.82
44	165	NOT FOUND							
45	149	791	12:05	30	1.059	A BB	36208.	0.165 NG	0.01
46	204	NOT FOUND							
47	166	796	12:10	30	1.066	A*BB	8416.	0.066 NG	0.00
48	138	NOT FOUND							
49	188	879	13:26	49	1.000	A BV	5163060.	40.000 NG	2.87
50	198	NOT FOUND							
51	169	807	12:20	49	0.918	A*BV	17360.	0 333 NG	0.02
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	868	13:16	49	0.987	A BV	1490110.	69.486 NG	4.99
55	178	881	13:28	49	1.002	A BV	154944.	0.953 NG	0.07
56	178	881	13:28	49	1.002	A BV	154944.	1.178 NG	0.08
57	149	937	14:19	49	1.066	A VV	1107510.	52.804 NG	3.79
58	202	990	15:08	49	1.126	A BV	549676.	3.450 NG	0.25
59	240	1121	17:08	59	1.000	A BV	3102520.	40.000 NG	2.87
60	184	1008	15:24	59	0.899	A BB	70848.	48.399 NG	3.48
61	202	1010	15:26	59	0.901	A VV	1310270.	63.700 NG	4.57
62	149	1072	16:23	59	0.956	A*VV	36696.	0.658 NG	0.05
63	252	NOT FOUND							
64	228	1120	17:07	59	0.999	A BV	138912.	1.376 NG	0.10
65	149	1127	17:13	59	1.005	A VV	243312.	3.341 NG	0.24
66	228	1120	17:07	59	0.999	A BV	138912.	1.499 NG	0.11
67	264	1317	20:08	67	1.000	A VV	2312630.	40.000 NG	2.87
68	149	1200	18:20	67	0.911	A*VV	57210.	0.578 NG	0.04
69	252	1256	19:12	67	0.954	A*BB	190496.	6.364 NG	0.46
70	252	1254	19:10	67	0.954	A*BB	190496	6 364 NG	0 46
71	252	1308	19:59	67	0.993	A BV	1057?8.	1.695 NG	0.12
72	276	1558	23:49	67	1.183	A BV	52364.	0.707 NG	0.05
73	278	1566	23:56	67	1.189	A*BV	25972	0 625 NG	0.04
74	278	NOT FOUND							
75	112	373	5:42	1	0.782	A VV	4938810.	79.465 NG	5.71

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
76	99	453	6:55	1	0.950	A BV	7929470.	80.200 NG	5.76
77	82	527	8:03	17	0.895	A BV	3499270.	40.325 NG	2.90
78	172	687	10:30	30	0.920	A BV	5341750.	41.144 NG	2.95
79	141	819	12:31	30	1.096	A BV	945248.	82.162 NG	5.90
80	244	1024	15:39	59	0.913	A VV	4732600.	60.962 NG	4.38
81	212	1008	15:24	59	0.899	A VV	6374070.	64.435 NG	4.63

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:32	1.01	10.000	0.05	6.94	50.00	0.109	0.788	0.14
3	6:56	1.00	10.000	0.10	74.08	50.00	2.867	1.935	1.48
4	6:55	1.00	10.000	0.10	1.63	50.00	0.049	1.516	0.03
5	7:01	1.01	10.000	0.10	1.85	50.00	0.061	1.649	0.04
6	7:04	1.00	10.000	0.10	80.22	50.00	2.255	1.406	1.60
7	7:14	1.01	10.000	0.10	26.36	50.00	0.812	1.539	0.53
8	7:18	1.00	10.000	0.10	26.65	50.00	0.812	1.523	0.53
9	7:31		10.000			50.00		0.916	
10	7:33	1.00	10.000	0.10	0.10	50.00	0.003	1.437	0.00
11	7:42		10.000			50.00		1.265	
11	7:44	1.00	10.000	0.11	1.86	20.00	0.090	2.383	0.04
12	7:53	1.01	10.000	0.11	0.04	50.00	0.001	1.378	0.00
14	7:54	1.00	10.000	0.11	37.88	50.00	1.063	1.404	0.76
15	7:57		10.000			50.00		0.831	
16	8:05	1.00	10.000	0.11	0.25	50.00	0.009	1.814	0.01
17	9:01	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
19	8:23	1.00	10.000	0.09	0.18	50.00	0.004	1.013	0.00
17	8:30		10.000			50.00		0.196	
20	8:34		10.000			50.00		0.343	
21	8:46		50.000			50.00		0.243	
22	8:43		10.000			50.00		0.471	
23	8:49		10.000			50.00		0.309	
24	8:55	1.00	10.000	0.10	35.44	50.00	0.245	0.345	0.71
25	9:00	1.00	10.000	0.10	0.03	50.00	0.001	1.083	0.00
26	9:07		10.000			50.00		0.400	
27	9:16		10.000			50.00		0.201	
28	9:47	1.00	10.000	0.11	78.29	50.00	0.646	0.413	1.57
29	9:57	1.00	10.000	0.11	0.62	50.00	0.009	0.690	0.01
30	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:15		10.000			50.00		0.241	
32	10:23		10.000			100.00		0.388	
33	10:23		50.000			100.00		0.388	
34	10:36		10.000			50.00		1.203	
35	10:48		50.000			50.00		0.535	
36	11:06	1.00	10.000	0.10	0.01	50.00	0.000	1.438	0.00
37	11:11	1.00	10.000	0.10	0.06	50.00	0.002	1.718	0.00
38	10:48		50.000			50.00		0.406	
39	11:27	1.00	10.000	0.10	37.57	50.00	0.883	1.175	0.75
40	11:30		50.000			50.00		0.069	
41	11:40	1.00	50.000	0.02	4.86	50.00	0.097	0.995	0.10
43	11:40		10.000			50.00		1.596	
43	11:42	1.00	10.000	0.10	25.40	50.00	0.247	0.486	0.51
44	11:11		10.000			50.00		0.286	
45	12:03	1.00	10.000	0.11	0.16	50.00	0.005	1.569	0.00
46	12:08		10.000			50.00		0.549	
47	12:07	1.00	10.000	0.11	0.07	50.00	0.002	1.261	0.00
48	12:14		50.000			50.00		0.220	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:16		50.000			50.00		0.093	
51	12:18	1.00	10.000	0.09	0.33	50.00	0.003	0.377	0.01
52	12:47		10.000			50.00		0.205	
53	12:59		10.000			50.00		0.288	
54	13:15	1.00	50.000	0.02	69.49	50.00	0.193	0.139	1.39
55	13:26	1.00	10.000	0.10	0.95	50.00	0.020	1.054	0.02
56	13:31	1.00	10.000	0.10	1.18	50.00	0.020	0.853	0.02
57	14:17	1.00	10.000	0.11	52.80	50.00	1.439	1.363	1.06
58	15:05	1.00	10.000	0.11	3.45	50.00	0.071	1.033	0.07
59	17:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:22	1.00	50.000	0.02	48.40	50.00	0.018	0.019	0.97
61	15:23	1.00	10.000	0.09	63.70	50.00	1.861	1.461	1.27
62	16:19	1.00	10.000	0.10	0.66	50.00	0.009	0.719	0.01
63	17:02		20.000			50.00		0.297	
64	17:04	1.00	10.000	0.10	1.38	50.00	0.036	1.301	0.03
65	17:11	1.00	10.000	0.10	3.34	50.00	0.063	0.939	0.07
66	17:08	1.00	10.000	0.10	1.50	50.00	0.036	1.194	0.03
67	20:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:16	1.00	10.000	0.09	0.58	30.00	0.020	1.711	0.01
69	19:11	1.00	10.000	0.10	6.36	100.00	0.033	0.518	0.06
70	19:11	1.00	10.000	0.10	6.36	100.00	0.033	0.518	0.06
71	19:56	1.00	10.000	0.10	1.69	50.00	0.037	1.079	0.03
72	23:49	1.00	10.000	0.12	0.71	50.00	0.018	1.281	0.01
73	23:55	1.00	10.000	0.12	0.62	50.00	0.012	0.993	0.01
74	24:57		10.000			50.00		1.012	
75	5:42	1.00	0.742	1.05	79.47	50.00	1.838	1.156	1.59
76	6:55	1.00	0.948	1.00	80.20	50.00	2.951	1.840	1.60
77	8:03	1.00	0.875	1.02	40.33	50.00	0.401	0.497	0.81
78	10:29	1.00	0.906	1.01	41.14	50.00	1.055	1.282	0.82
79	12:29	1.00	1.118	0.98	82.16	50.00	0.187	0.114	1.64
80	15:37	1.00	0.907	1.01	60.96	50.00	1.220	1.001	1.22
81	15:22	1.00	0.906	0.99	64.43	50.00	1.772	1.375	1.29

CASE#: GENTEST DUE DATE: 5/24

SEMI-VOLATILE
GC/MS WORKSHEET

COMPOUND#: 49821R

J1 [ ] R1 [X] D1 [ ] C [:1]

J2I [ ] R2I [ ] D2I [ ] C [:1]

LOW LEVEL SOLID
Deliverable Code: 069

Sample Prep Code--- -717
Instrument Code---255
Compound List---144
Surrogate Std---393
Internal Std---035 (added by GC/MS)

SAS: EPA#: 55 277/307 Dry Weight Factor 1.00

GC/MS ANALYSIS

Volumes mixed: BN 1.00 ul Acid _____ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/21/85
DFTPP Filename OA85052102 Disk (2)
Standard Filename A85052102 Disk (2)
Sample Filename SR49521022 Disk (2)

ANALYST(S): Injection 755 Work-up 755

GC/MS REVIEW

CONDITION CODE: EA

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,J
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CY,CS,PC,OT,D
ED,IF,LA,DI,CO,RN,DW,NS

Extraneous Peak Search Results:
# of Peaks Found: 19

Quality Assurance Notice(s):
Notices Required _____

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Next
[ ] Send to QA

COMMENTS:
94 20 3-22-85 RF

GC/MS Review JR Date 5/24/85 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: 3
Final Reportable Package(s): _____/_____

QA COMMENTS:

DATA REVIEWED 5/24/85

Initials _____ Date ___/___/__

FINAL REVIEW: Initials _____ Date ___/___/__

COMPUCHEM # 049821 FILE: GR049821C22 COMPOUND LIST 144 PAGE

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	LAB CODE	COMPOUND NAME	QUANT REPORT VALUE	X	RESULT(*) (UG/KG)	DETECTION LIMIT (UG/KG)
6	441	___	N-NITROSODIMETHYLAMINE (Q1#2) <62-	~~6.9~~		~~BDL~~	330. 0
7	610	___	PHENOL (Q1#3) <108-95-2>	74. 1		2500. 0	330. 0
8	473	___	ANILINE (Q1#4) <62-53-3>			BDL	330. 0
9	411	___	BIS(2-CHLOROETHYL)ETHER (Q1#5) <11			BDL	330. 0
10	601	___	2-CHLOROPHENOL (Q1#6) <95-57-8>	80. 2		2700. 0	330 0
11	421	___	1, 3-DICHLOROBENZENE (Q1#7) <541-73	~~25. 4~~		~~880.~~ BDL	330 0
12	422	___	1, 4-DICHLOROBENZENE (Q1#8) <106-46	26. 6		880. 0	330 0
13	474	___	BENZYL ALCOHOL (Q1#9) <100-51-6>			BDL	330. 0
14	420	___	1, 2-DICHLOROBENZENE (Q1#10) <95-50			BDL	330 0
15	620	___	2-METHYLPHENOL (Q1#11) <95-48-7>			BDL	330 0
16	412	___	BIS(2-CHLOROISOPROPYL)ETHER (Q1#12			BDL	330 0
17	622	___	4-METHYLPHENOL (Q1#13) <106-44-5>			BDL	330 0
18	442	___	N-NITROSO-DI-N-PROPYLAMINE (Q1#14	37. 9		1200. 0	330 0
19	436	___	HEXACHLOROETHANE (Q1#15) <67-72-1>			BDL	330 0
20	440	___	NITROBENZENE (Q1#16) <98-95-3>			BDL	330. 0
21	438	___	ISOPHORONE (Q2#2) <78-59-1>			BDL	330 0
22	606	___	2-NITROPHENOL (Q2#3) <88-75-5>			BDL	330. 0
23	603	___	2, 4-DIMETHYLPHENOL (Q2#4) <105-67-			BDL	330. 0
24	625	___	BENZOIC ACID (Q2#5) <65-85-0>			BDL	1600. 0
25	410	___	BIS(2-CHLOROETHOXY)METHANE (Q2#6)			BDL	330. 0
26	602	___	2, 4-DICHLOROPHENOL (Q2#7) <120-83-			BDL	330 0
27	446	___	1, 2, 4-TRICHLOROBENZENE (Q2#8) <120	35. 4		1200. 0	330. 0
28	439	___	NAPHTHALENE (Q2#9) <91-20-3>			BDL	330. 0
29	475	___	4-CHLOROANILINE (Q2#10) <106-47-8>			BDL	330 0
30	454	___	HEXACHLOROBUTADIENE (Q2#11) <87-68-			BDL	330 0
31	608	___	P-CHLORO-M-CRESOL (Q2#12) <59-50-7	78. 3		2600. 0	330. 0
32	477	___	2-METHYLNAPHTHALENE (Q2#13) <91-57-			BDL	330 0
33	435	___	HEXACHLOROCYCLOPENTADIENE (Q3#2) <			BDL	330. 0
34	611	___	2, 4, 6-TRICHLOROPHENOL (Q3#3) <88-0			BDL	330. 0
35	626	___	2, 4, 5-TRICHLOROPHENOL (Q3#4) <95-9			BDL	1600. 0
36	416	___	2-CHLORONAPHTHALENE (Q3#5) <91-58-			BDL	330. 0
37	478	___	2-NITROANILINE (Q3#6) <88-74-4>			BDL	1600. 0
38	425	___	DIMETHYL PHTHALATE (Q3#7) <131-11-			BDL	330. 0
39	402	___	ACENAPHTHYLENE (Q3#8) <208-96-8>			BDL	330. 0
40	479	___	3-NITROANILINE (Q3#9) <99-09-2>			BDL	1600 0
41	401	___	ACENAPHTHENE (Q3#10) <83-32-9>	37. 6		1200. 0	330. 0
42	605	___	2, 4-DINITROPHENOL (Q3#11) <51-28-5			BDL	1600. 0
43	607	___	4-NITROPHENOL (Q3#12) <100-02-7>			BDL	1600. 0
44	476	___	DIBENZOFURAN (Q3#13) <132-64-9>			BDL	330. 0
45	437	___	2, 4-DINITROTOLUENE (Q3#14) <121-14	25. 4		840. 0	330 0
46	428	___	2, 6-DINITROTOLUENE (Q3#15) <606-20			BDL	330. 0
47	424	___	DIETHYL PHTHALATE (Q3#16) <84-66-2			BDL	330. 0
48	417	___	4-CHLOROPHENYL PHENYL ETHER (Q3#17			BDL	330. 0
49	432	___	FLUORENE (Q3#18) <86-73-7>			BDL	330 0
50	480	___	4-NITROANILINE (Q3#19) <100-01-6>			BDL	1600. 0
51	604	___	4, 6-DINITRO-2-METHYLPHENOL (Q4#1			BDL	1600. 0
52	443	___	N-NITROSODIPHENYLAMINE (Q4#3) <86-			BDL	330. 0
53	414	___	4-BROMOPHENYL PHENYL ETHER (Q4#4)			BDL	330. 0
54	433	___	HEXACHLOROBENZENE (Q4#5) <118-74-1			BDL	330. 0
55	609	___	PENTACHLOROPHENOL (Q4#6) <87-86-5>	69. 5		2300. 0	1600. 0
56	444	___	PHENANTHRENE (Q4#7) <85-01-8>			BDL	330. 0
57	413	___	ANTHRACENE (Q4#8) <120-12-7>			BDL	330. 0
58	426	___	DI-N-BUTYL PHTHALATE (Q4#9) <84-74	52 8		1800. 0	330. 0
59	431	___	FLUORANTHENE (Q4#10) <206-44-0>			BDL	330. 0

No	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detection Limit (ug/kg)
60	404	___	BENZIDINE (Q5#2) <92-87-5>	~~48.4~~		~~1600.0~~ BDL	1600.0
61	445	___	PYRENE (Q5#3) <129-00-0>	63.7		2100.0	330.0
62	415	___	BUTYLBENZYL PHTHALATE (Q5#4) <85-6			BDL	330.0
63	423	___	3,3'-DICHLOROBENZIDINE (Q5#5) [91-			BDL	660.0
64	405	___	BENZO(A)ANTHRACENE (Q5#6) <56-55-3			BDL	330.0
65	413	___	BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7)			BDL	330.0
66	418	___	CHRYSENE (Q5#8) <218-01-9>			BDL	330.0
68	429	___	DI-N-OCTYL PHTHALATE (Q6#2) <117-8			BDL	330.0
69	407	___	BENZO(B)FLUORANTHENE (Q6#3) <205-9	6.3		J	330.0
70	409	___	BENZO(K)FLUORANTHENE (Q6#4) <207-0	6.3		J	330.0
71	406	___	BENZO(A)PYRENE (Q6#5) <50-32-8>			BDL	330.0
72	437	___	INDENO(1,2,3-C,D)PYRENE (Q6#6) <19			BDL	330.0
73	419	___	DIBENZO(A,H)ANTHRACENE (Q6#7) [53-			BDL	330.0
74	40D	___	BENZO(G,H,I)PERYLENE (Q6#8) <191-2			BDL	330.0

1R

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
75	##	2-FLUOROPHENOL (SS#1)	72.5	98.4	81.0	20-140	X	
76	##	D5-PHENOL (SS#2)	80.2	98.4	82.0	20-140	X	
77	##	D5-NITROBENZENE (SS#3)	40.3	49.2	82.0	20-140	X	
78	##	2-FLUOROBIPHENYL (SS#4)	41.1	49.2	84.0	20-140	X	
79	##	2,4,6-TRIBROMOPHENOL (SS#5)	82.2	98.4	84.0	10-140	X	
80	##	D14-TERPHENYL (SS#6)	61.0	49.2	124.0	20-150	X	
81	##	D10 PYRENE	64.4	49.2	131.0	33-128*		

* Advisory surrogate only
++ % Recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#52) D10-Phenanthrene > 40000 Cnts ___ ___

Correction Factor Calculation:

$$\frac{\text{Final Extract Volume (ml)}}{\text{Split Factor (*)}} \times \frac{30.0\text{g}}{\text{Amount Extracted (g)}} \times \text{Dry Weight Factor} \times \text{GC/MS Dilution Factor} \times 33.3 =$$

$$\frac{0.6\text{ml}}{0.590} \times \frac{30.0\text{g}}{30.6\text{g}} \times \frac{1.0}{1.0} \times 33.3 = 33.200$$

* Split Factor = (295/300)(6/10) if PEST/TCDD Volumes are indicated on log
= 1 if PEST/TCDD Volumes are not indicated on Extraction log

Quant Report amount spiked conversion factor:

$$\frac{1000\text{ ul}}{\text{Amount Surrogate Added (ul)}} \times \frac{\text{Final Extract Vol (ml)}}{\text{Split Factor}} \times \text{GCMS Dilution Factor} =$$

$$\frac{1000\text{ ul}}{500\text{ ul}} \times \frac{0.6\text{ml}}{0.590\text{ml}} \times 1.0 = 2.030$$

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Deborah

DATE ASSIGNED: 5-21-85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49827 R	717	Client Test	N/A	SS	49827	30.63		0.6ml		4 ml			5/21	Rpt 49827 R 279/307
49827 R			N/A	SS	49827	30.5 g		0.6ml		4.0ml			5/21	Rest. Back up OK
51044						30.0ml		0.6	0.6ml	4.0ml			5/21	
51045						30.0ml		0.6	0.6ml	4.0ml			5/21	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO	939					
	AMT.	0.5ml					
	LOT	14693					
SPIKE	NO						
	AMT						
	LOT		14655	14687			

MANUAL COUNTER: 276/310

FINAL VOLUME VERIFIED: L.R.P.

SUPERVISOR REVIEWED: [illegible]

EXTRACTS RECEIVED BY: BD 5/21/85

Nº 6187

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
SG7054 MSD

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: GH049825A12
Sample matrix: solid
Data Release Authorized By: _____

Case: GEN TEST
QC Report No: 2239/3928
Contract No:
Date Sample Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 5-6-85
Date analyzed: 5-8-85
Conc/Dil Factor: 1.78
Percent moisture: 44%
Percent moisture (decanted):
pH:

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	18.	U	78-87-5	1,2-Dichloropropane	8.9	U
74-83-9	Bromomethane	18.	U	10061-02-6	trans-1,3-Dichloropropene	8.9	U
75-01-4	Vinyl Chloride	18.	U	79-01-6	Trichloroethene	8.9	U
75-00-3	Chloroethane	18.	U	124-48-1	Dibromochloromethane	8.9	U
75-09-2	Methylene Chloride	46.		79-00-5	1,1,2-Trichloroethane	8.9	U
67-64-1	Acetone	67.		71-43-2	Benzene	8.9	U
75-15-0	Carbon Disulfide	8.9	U	10061-01-5	cis-1,3-Dichloropropene	8.9	U
75-35-4	1,1-Dichloroethene	8.9	U	110-75-8	2-Chloroethyl Vinyl Ether	18.	U
75-34-3	1,1-Dichloroethane	8.9	U	75-25-2	Bromoform	8.9	U
156-60-5	trans-1,2-Dichloroethene	8.9	U	591-78-6	2-Hexanone	18.	U
67-66-3	Chloroform	8.9	U	108-10-1	4-Methyl-2-pentanone	18.	U
107-06-2	1,2-Dichloroethane	8.9	U	127-18-4	Tetrachloroethene	8.9	U
78-93-3	2-Butanone	18.	U	108-88-3	Toluene	8.9	U
71-55-6	1,1,1-Trichloroethane	8.9	U	108-90-7	Chlorobenzene	8.9	U
56-23-5	Carbon Tetrachloride	8.9	U	100-41-4	Ethyl Benzene	8.9	U
108-05-4	Vinyl Acetate	18.	U	100-42-5	Styrene	8.9	U
75-27-4	Bromodichloromethane	8.9	U		Total Xylenes	8.9	U
79-34-5	1,1,2,2-Tetrachloroethane	8.9	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ml in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

P O Box 818 Alexandria Virginia 22313 703/557-2490

Sample number
50705H msD

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		None	V		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

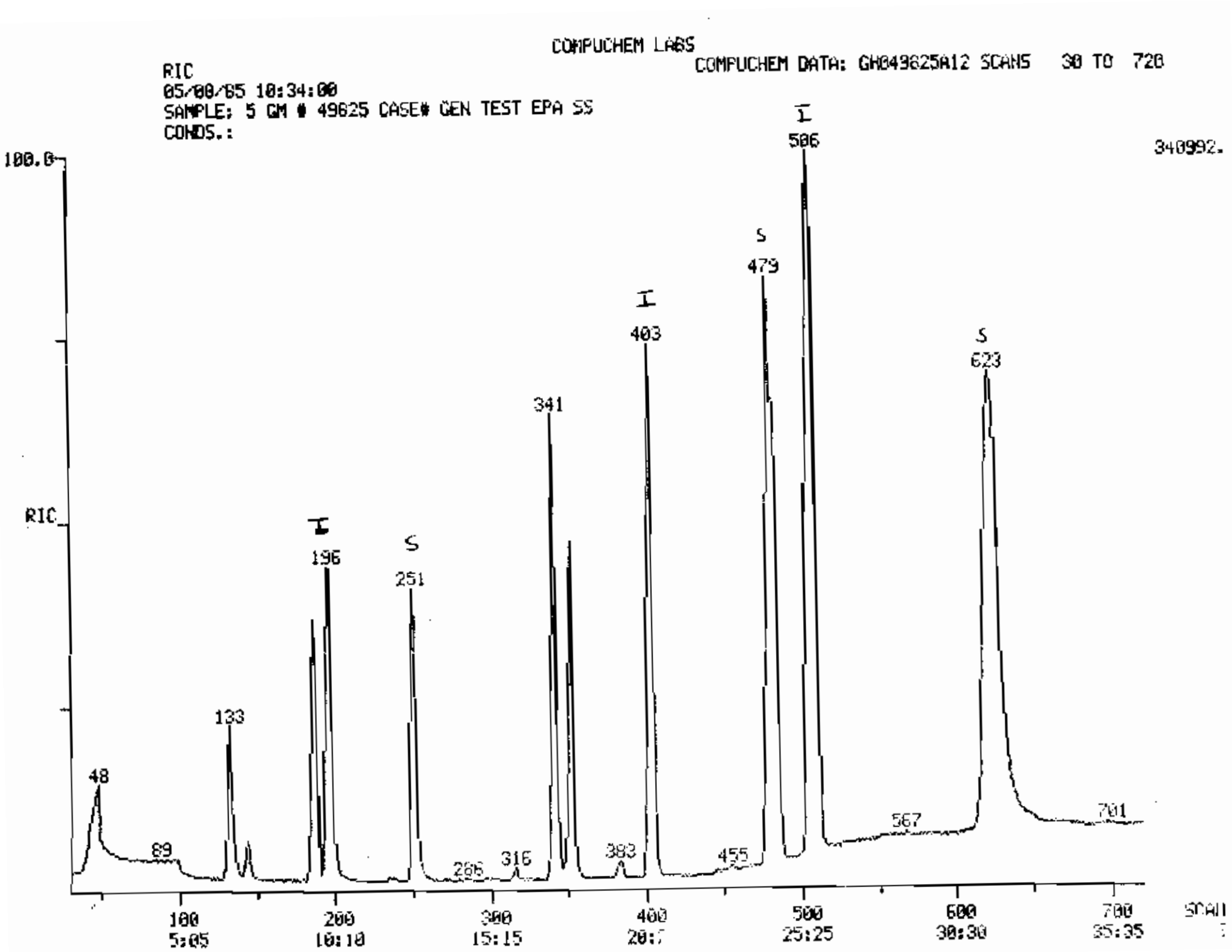
QUALITY ASSURANCE NOTICE
sample # 49825
fraction VOA

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 46 _____ _____ _____ _____ _____

QAN1OS
850218

5/10/85


COMPUCHEM LABS
COMPUCHEM DATA: GH043025A12 SCANS 30 TO 720
RIC
05/00/85 10:34:00
SAMPLE: 5 GM # 49625 CASE# GEN TEST EPA SS
CONDS.:
340992.
100.0
RIC
I
506
S
479
I
403
S
623
I
196
S
251
341
133
48
89
266
316
383
455
567
701
100
5:05
200
10:10
300
15:15
400
20:?
500
25:25
600
30:30
700
35:35
SCAN

METHOD: E238 FILENAME: GH049B25A12 DATE: 05/08/85
SHIFT STD: GS850506C12 TIME: 10:34

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
* BROMOCHLOROMETHANE (IS)	99661.	104733.	-4.	PASS
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	395167.	387406.	2.	PASS
* D5 CHLOROBENZENE(INTERNAL STANDARD)	364750.	360445.	1.	PASS

QUANTITATION REPORT FILE: GH049825A12

DATA: GH049825A12.TI
05/06/85 10:34:00
SAMPLE: 5 GM # 49825 CASE# GEN TEST EPA 88
CONDS. :
SUBMITTED BY: 12 ANALYST: 577

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUORDBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	196	9:58	1	1.000	A BV	99662.	50.000 UG/KG	8.34
2	56	NOT FOUND							

PROCEDURE: RK
DATA FILE: GH049(
REFERENCE: E238
METHOD: E238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E238S

| ---- STANDARDS ----- >< --- PLUS UNKNOWNS --- >< - LIST NAMES - >

PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	13	1	28	E238S/E238U

42 COMPOUNDS PROCESSED, 13 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------ >										
NO	LIB	ENTRY	REF	PREO	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E5	1	-197	196	196	.	1	978	.	128	196	.	1
2	E6	1	-403	403	403	.	1	995	.	114	403	.	1
3	E7	1	-505	505	505	.	1	975	.	117	505	.	1
4	E5	2	-36	36	.	.	.	.	.	50	.	.	.
5	E5	3	-55	55	.	.	.	.	.	94	.	.	.
6	E5	4	-70	70	.	.	.	.	.	62	.	.	.
7	E5	5	-90	90	.	.	.	.	.	64	.	.	.
8	E5	6	-133	133	133	.	1	982	.	84	133	.	1
9	E5	7	-144	144	144	.	1	971	.	43	144	.	1
10	E5	8	-164	164	.	.	.	.	.	76	165	.	1
11	E5	9	-187	187	187	.	1	984	.	96	187	.	1
12	E5	10	-213	213	.	.	.	.	.	63	.	.	.
13	E5	11	-227	227	.	.	.	.	.	96	.	.	.
14	E5	12	-238	238	.	.	.	.	.	83	238	.	1
15	E5	13	-253	253	.	.	.	.	.	62	253	.	1
16	E6	2	-251	251	251	.	1	958	.	72	251	.	1
17	E6	3	-280	280	.	.	.	.	.	97	.	.	.
18	E6	4	-288	288	.	.	.	.	.	117	.	.	.
19	E6	5	-289	289	.	.	.	.	.	43	.	.	.
20	E6	6	-297	297	.	.	.	.	.	83	.	.	.
21	E6	7	-325	325	.	.	.	.	.	63	.	.	.
22	E6	8	-330	330	.	.	.	.	.	75	.	.	.
23	E6	9	-341	341	341	.	1	980	.	130	341	.	1
24	E6	10	-353	353	.	.	.	.	.	129	.	.	.
25	E6	11	-355	355	.	.	.	.	.	97	.	.	.
26	E6	12	-352	352	352	.	1	994	.	78	352	.	1
27	E6	13	-356	356	.	.	.	.	.	75	.	.	.
28	E6	14	-377	377	.	.	.	.	.	63	.	.	.
29	E6	15	-407	407	.	.	.	.	.	173	.	.	.
30	E7	2	-418	418	.	.	.	.	.	43	419	.	2
31	E7	3	-450	450	.	.	.	.	.	43	449	.	1
32	E7	4	-455	455	.	.	.	.	.	164	.	.	.
33	E7	5	-454	454	.	.	.	.	.	83	.	.	.
34	E7	6	-483	483	483	.	1	986	.	92	483	.	1
35	E7	7	-508	508	508	.	1	993	.	112	508	.	1
36	E7	8	-557	557	.	.	.	.	.	106	.	.	.
37	E7	9	-661	661	.	.	.	.	999	104	.	.	.
38	E7	10	-670	670	.	.	.	.	999	106	.	.	.
39	E7	11	-670	670	.	.	.	.	999	106	.	.	.
40	E8	2	-251	251	251	.	1	992	.	65	251	.	1
41	E8	3	-622	622	.	.	.	.	999	95	.	.	.
42	E8	4	-479	479	479	.	1	991	.	98	479	.	1

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	133	6:46	1	0.679	A BV	66084.	25.714 UG/KG	4.29
7	43	144	7:19	1	0.735	A BB	47086.	48.735 UG/KG	8.13
8	76	165	8:23	1	0.842	A BB	952.	0.146 UG/KG	0.02
9	96	187	9:30	1	0.954	A BV	87749.	39.882 UG/KG	6.65
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	238	12:06	1	1.214	A BB	2334.	0.449 UG/KG	0.07
13	62	253	12:52	1	1.291	A BB	1103.	0.313 UG/KG	0.05
14	114	403	20:29	14	1.000	A BV	395168.	50.000 UG/KG	8.34
15	72	251	12:46	14	0.623	A BB	7675.	16.409 UG/KG	2.74
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	341	17:20	14	0.846	A BB	147864.	36.543 UG/KG	6.10
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	352	17:54	14	0.873	A BB	239084.	42.482 UG/KG	7.09
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BB	364751.	50.000 UG/KG	8.34
30	43	419	21:18	29	0.830	A*VB	1757.	0.423 UG/KG	0.07
31	43	449	22:49	29	0.889	A VV	766.	0.232 UG/KG	0.04
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	483	24:33	29	0.956	A BB	176TT7.	41.301 UG/KG	6.89
35	112	508	25:49	29	1.006	A BB	266417.	39.227 UG/KG	6.54
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	251	12:46	1	1.281	A BV	186369.	55.554 UG/KG	9.27
41	95	623	31:40	29	1.234	A BB	280076.	47.736 UG/KG	T.96
42	98	479	24:21	1	2.444	A BV	361861.	54.355 UG/KG	9.07

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:01	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:50		10.000			50.00		1.072	
3	2:48		10.000			50.00		1.438	
4	3:33		10.000			50.00		1.232	
5	4:34		10.000			50.00		0.618	
6	6:46	1.00	5.000	0.14	25.71	50.00	0.663	1.289	0.51
7	7:19	1.00	10.000	0.07	48.74	50.00	0.472	0.485	0.97
8	8:20	1.01	5.000	0.17	0.15	50.00	0.010	3.281	0.00
9	9:30	1.00	5.000	0.19	39.88	50.00	0.880	1.104	0.80
10	10:50		5.000			50.00		1.976	
11	11:32		5.000			50.00		1.157	
12	12:06	1.00	5.000	0.24	0.45	50.00	0.023	2.611	0.01
13	12:52	1.00	5.000	0.26	0.31	50.00	0.011	1.771	0.01
14	20:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	16.41	50.00	0.017	0.059	0.33
16	14:14		5.000			50.00		0.595	
17	14:38		5.000			50.00		0.642	
18	14:41		10.000			50.00		0.491	
19	15:06		5.000			50.00		0.643	
20	16:31		5.000			50.00		0.347	
21	16:46		5.000			50.00		0.240	
22	17:20	1.00	5.000	0.17	36.54	50.00	0.374	0.512	0.73
23	17:57		5.000			50.00		0.595	
24	18:03		5.000			50.00		0.330	
25	17:54	1.00	5.000	0.17	42.48	50.00	0.605	0.712	0.85
26	18:06		5.000			50.00		0.684	
27	19:10		10.000			50.00		0.232	
28	20:41		5.000			50.00		0.696	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.00	10.000	0.08	0.42	50.00	0.005	0.569	0.01
31	22:52	1.00	10.000	0.09	0.23	50.00	0.002	0.452	0.00
32	23:08		5.000			50.00		0.619	
33	23:05		5.000			50.00		0.666	
34	24:33	1.00	5.000	0.19	41.30	50.00	0.485	0.587	0.83
35	25:49	1.00	5.000	0.20	39.23	50.00	0.730	0.931	0.78
36	28:19		5.000			50.00		0.501	
37	33:36		5.000			50.00		1.257	
38	34:03		5.000			50.00		0.717	
39	34:03		5.000			100.00		0.359	
40	12:46	1.00	10.000	0.13	55.55	50.00	1.870	1.683	1.11
41	31:37	1.00	10.000	0.12	47.74	50.00	0.768	0.804	0.95
42	24:21	1.00	10.000	0.24	54.35	50.00	3.631	3.340	1.09

VOA
QC [illegible] WORKSHEET   COMPLIPEM#: 43925

RI [ ] R2I [ ] DI [ ] (:1)
R3I [ ] R4I [ ] D2I [ ] (:1)

LOW LEVEL SOLID
Deliverable Code 569

Sample Prep Code---155
Instrument Code---257
Compound List---146
Surrogate Std---394
Internal Std---036

ERS: EPA#: 55 279/1.69 Dry Weight Factor 1.80

SOME ANALYSIS
Amount Purged: [√] [illegible] or [ ] Dilution ______ ul/10000ul/Kg soil
Internal Standard Volume Added ______ 5 ul
Surrogate Standard Volume Added ______ 5 ul   10ul Spike added
[illegible] File name BF8FC5_0[illegible] Disk (129)
Blank Filename G[illegible]05[illegible] Disk ( )
Standard Filename G1850[illegible] Disk ( )
Sample Filename G1804[illegible]25A12 Disk ( )

ANALYST(S): Injection 597 Work-up 597

[illegible] REVIEW

CONDITION CODE: OK

[ ] Key Codes [illegible],DA
Non-Entry Codes IM,[illegible],NR [illegible]

Disposition: [ ] [illegible]
[illegible]
# of Peaks Found: ____
[ ] [illegible] not required
[ ] [illegible] using ______ g
[illegible]
[illegible] 1
[ ] Dilute (:1)

COMMENTS: until 48

[illegible] Date 5/10/85 Auditor ____ Date / /

[illegible] Total # of Injections: 1
Final Reportable Package(s): G1804925A12

[illegible] COMMENTS:

Initials ____ Date / /
[illegible] Date / /

No	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(#) (ug/kg)		Detectid Limit (ug/kg
2	221	___	CHLOROMETHANE			BDL		10.0
3	220	___	BROMOMETHANE			BDL		10.0
4	231	___	VINYL CHLORIDE			BDL		10.0
5	209	___	CHLOROETHANE			BDL		10.0
6	222	___	METHYLENE CHLORIDE	25.T		46.0	B,V	5.9
7	252	___	ACETONE (2-PROPANONE)	48.7		87.0		10.0
8	254	___	CARBON DISULFIDE			BDL		5.9
9	216	___	1,1-DICHLOROETHYLENE	39.9		71.0		5.9
10	214	___	1,1-DICHLOROETHANE			BDL		5.9
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL		5.9
12	211	___	CHLOROFORM			BDL		5.9
13	215	___	1,2-DICHLOROETHANE			BDL		5.9
15	253	___	2-BUTANONE	~~16.4~~		BDL 0		10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL		5.9
17	206	___	CARBON TETRACHLORIDE			BDL		5.9
18	257	___	VINYL ACETATE			BDL		10.0
19	212	___	BROMODICHLOROMETHANE			BDL		5.9
20	217	___	1,2-DICHLOROPROPANE			BDL		5.9
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL		5.9
22	229	___	TRICHLOROETHYLENE	36.5		65.0		5.9
23	208	___	CHLORODIBROMOMETHANE			BDL		5.9
24	228	___	1,1,2-TRICHLOROETHANE			BDL		5.9
25	203	___	BENZENE	42.5		76.0		5.9
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL		5.9
27	210	___	2-CHLOROETHYL VINYL ETHER			BDL		10.0
28	205	___	BROMOFORM			BDL		5.9
30	255	___	2-HEXANONE			BDL		10.0
31	256	___	4-METHYL-2-PENTANONE			BDL		10.0
32	224	___	TETRACHLOROETHENE			BDL		5.9
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL		5.9
34	225	___	TOLUENE	41.3		74.0		5.9
35	20T	___	CHLOROBENZENE	39.2		70.0		5.9
36	219	___	ETHYLBENZENE			BDL		5.9
37	251	___	STYRENE			BDL		5.9
38	239	___	M-XYLENE			BDL		5.9
39	240/241	___	O- & P-XYLENE			BDL		5.9

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	55.6	50.0	111.0	50-160	X	
41		BROMOFLUOROBENZENE	47.7	50.0	95.0	50-160	X	
42		DB-TOLUENE	54.4	50.0	109.0	50-160	X	

* Advisory surrogate only
++ % Recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ✓ ---

Correction Factor Calculation:

$$\frac{5.0\ g}{\text{Wet Weight of Sample (g)}} \times \text{GC/MS Dilution Factor} \times \text{Dry Weight Factor} =$$

$$\frac{5.0\ g}{5.0\ (g)} \times \frac{1.0}{} \times \frac{1.8}{} = 1.780$$

Quant Report Amount Spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

VOLATILE ORGANIC WORKSHEET

(19)

ASSIGNED TO Ron

№ 1192

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens H	Comments
~~49816~~	~~BS~~	gen Ext			~~5.00g~~	~~5-6-85~~					
49818					5.00g.			/			
49823			BS		Blank						
49824			SS	49826	5.03g.			/			
49825			SS	49826	5.05g.			/			
49827					5.00g.			/			
49828					5.01g.			/			
49829					5.01g.			/			
49830					5.09g.			/			
49831					5.04g.			/			
49859					5.10g.			/			
49860					5.00g.	↓		/			
49911			B		10ml	5-6-85	/				
49912			B		Blank	↓					
			B								

Surrogate No. _____
Amount _____
Lot _____

Extracts Received 5/6/85 BD

Schedule Reference 299/308 ✓
Manual Counter 278/344 ✓

Issued 5/7 PM

Environmental Protection Agency, CLP Sample Management Office
P. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705K MSD

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 05-21-85
Date analyzed: 05-22-85
Conc/Dil Factor: 33.30

CAS Number		ug/kg		CAS Number		ug/kg	
62-75-9	N-Nitrosodimethylamine	330	U	99-09-2	3-Nitroaniline	1700	U
108-95-2	Phenol	330	U	83-32-9	Acenaphthene	330	U
62-53-3	Aniline	330	U	51-28-5	2,4-Dinitrophenol	1700	U
111-44-4	bis(2-Chloroethyl) ether	330	U	100-02-7	4-Nitrophenol	1700	U
95-57-8	2-Chlorophenol	330	U	132-64-9	Dibenzofuran	330	U
541-73-1	1,3-Dichlorobenzene	330	U	121-14-2	2,4-Dinitrotoluene	330	U
106-46-7	1,4-Dichlorobenzene	330	U	606-20-2	2,6-Dinitrotoluene	330	U
100-51-6	Benzyl Alcohol	330	U	84-66-2	Diethylphthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U	7005-72-3	4-Chlorophenyl Phenyl ether	330	U
95-48-7	2-Methylphenol	330	U	86-73-7	Fluorene	330	U
39638-32-9	bis(2-Chloroisopropyl) ether	330	U	100-01-6	4-Nitroaniline	1700	U
106-44-5	4-Methylphenol	330	U	534-52-1	4,6-Dinitro-2-methylphenol	1700	U
621-64-7	N-Nitroso-Dipropylamine	330	U	86-30-6	N-nitrosodiphenylamine (1)	330	U
67-72-1	Hexachloroethane	330	U	101-55-3	4-Bromophenyl Phenyl ether	330	U
98-95-3	Nitrobenzene	330	U	118-74-1	Hexachlorobenzene	330	U
78-59-1	Isophorone	330	U	87-86-5	Pentachlorophenol	1700	U
88-75-5	2-Nitrophenol	330	U	85-01-8	Phenanthrene	330	U
105-67-9	2,4-Dimethylphenol	330	U	120-12-7	Anthracene	330	U
65-85-0	Benzoic Acid	1700	U	84-74-2	Di-n-butylphthalate	330	U
111-91-1	bis(2-Chloroethoxyl methane	330	U	206-44-0	Fluoranthene	330	U
120-83-2	2,4-Dichlorphenol	330	U	92-87-5	Benzidine	1700	U
120-82-1	1,2,4-Trichlorobenzene	330	U	129-00-0	Pyrene	330	U
91-20-3	Naphthalene	330	U	85-68-7	Butyl Benzyl Phthalate	330	U
106-47-8	4-Chloroaniline	330	U	91-94-1	3,3'-Dichlorobenzidine	660	U
87-68-3	Hexachlorobutadiene	330	U	56-55-3	Benzo(a)anthracene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U	117-81-7	bis(2-ethylhexyl)phthalate	330	U
91-57-6	2-Methylnaphthalene	330	U	218-01-9	Chrysene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U	117-84-0	Di-n-octyl Phthalate	330	U
88-06-2	2,4,6-Trichlorophenol	330	U	205-99-2	Benzo(b)fluoranthene	330	U
95-95-4	2,4,5-Trichlorophenol	1700	U	207-08-9	Benzo(k)fluoranthene	330	U
91-58-7	2-Chloronapthalene	330	U	50-32-8	Benzo(a)pyrene	330	U
88-74-4	2-Nitroaniline	1700	U	193-39-5	Indeno(1,2,3-cd)pyrene	330	U
131-11-3	Dimethyl Phthalate	330	U	53-70-3	Dibenz(a,h)anthracene	330	U
208-96-8	Acenaphthylene	330	U	191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-10-1	2-PENTANONE,4-METHYL- ALKANONE	SEMI1	220	190.	J B
2	108-88-3	BENZENE,METHYL- TOLUENE	SEMI1	259	850.	J B
3	15870-10-7	1-HEPTENE,2-METHYL- ALKENE OR CYCLOALKANE	SEMI1	284	150.	J B
4	111-65-9	OCTANE ISOMER	SEMI1	297	810.	J B
5	1678-91-7	CYCLOHEXANE,ETHYL- CYCLOALKANE	SEMI1	331	580.	J B
6	17574-86-6	1-HEPTEN-1-OL,ACETATE,(Z)- UNKNOWN	SEMI1	339	2700.	J B
7	1839-63-0	CYCLOHEXANE,1,3,5-TRIMETHYL- ISOMER	SEMI1	348	96.	J B
8	3074-71-3	HEPTANE,2,3-DIMETHYL- ISOMER	SEMI1	353	190.	J B
9	2213-23-2	HEPTANE,2,4-DIMETHYL- ISOMER	SEMI1	361	570.	J B
10	2216-33-3	OCTANE,3-METHYL- ALKANE	SEMI1	367	850.	J B
11	111-84-2	NONANE ISOMER	SEMI1	391	160.	J B
12	629-78-7	HEPTADECANE ALKANE	SEMI1	788	230.	J
13	57-10-3	HEXADECANOICACID ALIPHATIC ACID	SEMI1	931	340.	J
14	646-30-0	NONADECANOICACID ALIPHATIC ACID	SEMI1	1002	360.	J

33. ✓ 40.00

12
5-29-85

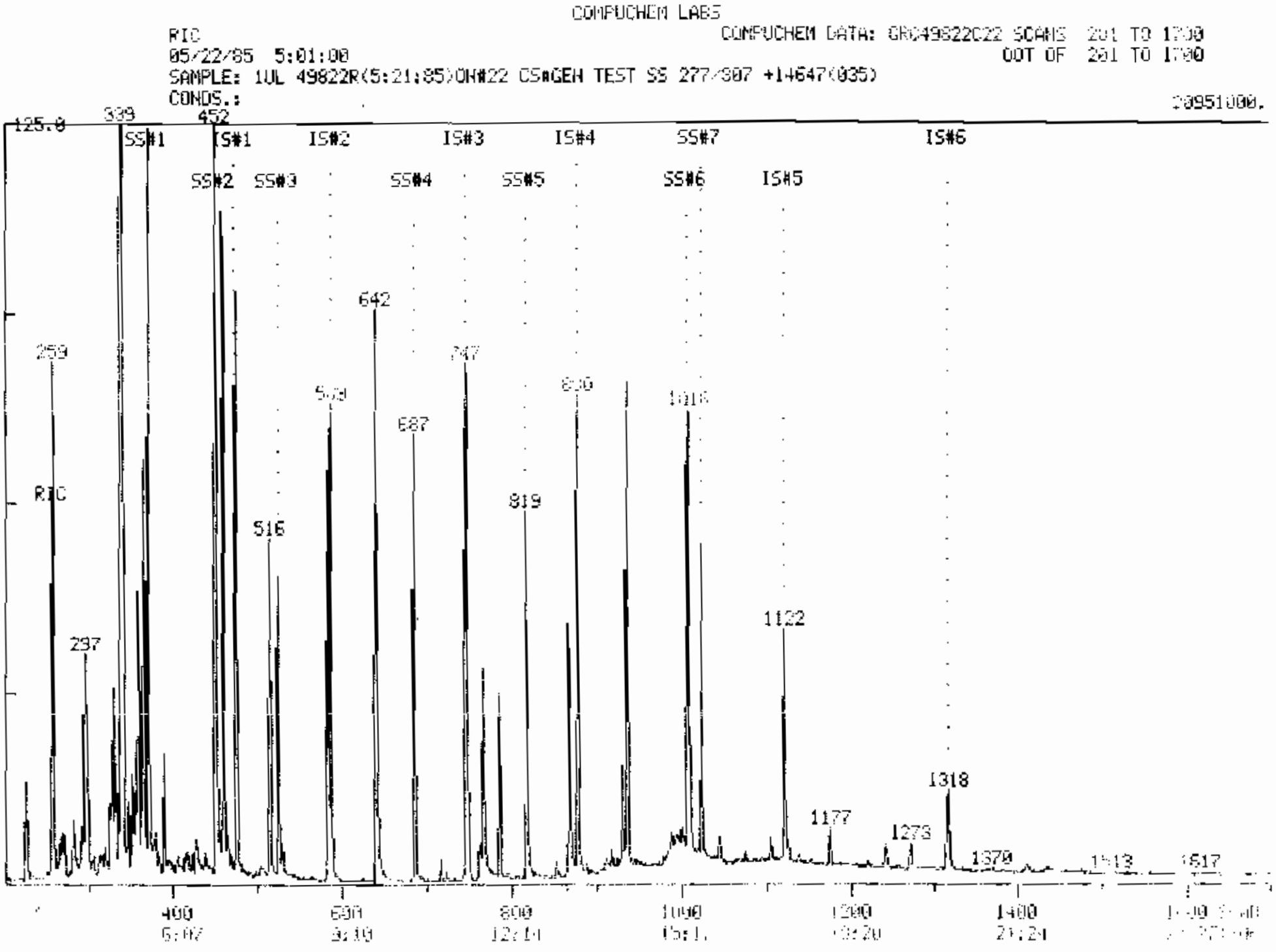
SAMPLE NUMBER

ORGAHICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
15	629-94-7	HENEICOSANE ALKANE	SEMI1	1046	200.	J
16	629-94-7	HENEICOSANE ALKANE	SEMI1	1107	170.	J
17	629-94-7	HENEICOSANE ALKANE	SEMI1	1177	280.	J
18	638-66-4	OCTADECANAL OXYGENATED	SEMI1	1243	380.	J
19	629-99-2	PENTACOSANE ALKANE	SEMI1	1273	450.	J

1R
5-24-85


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GR049822C22 SCANS 201 TO 1700
05/22/85 5:01:00
OOT OF 201 TO 1700
SAMPLE: 1UL 49822R(5:21:85)ON#22 CS#GEN TEST SS 277/307 +14647(035)
CONDS.:
20951000.
125.0
339
452
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
642
259
747
687
819
516
RIC
297
1122
1318
1177
1273
1379
400
600
800
1000
1200
1400

METHOD: SEMI1 FILENAME: GR04[illegible]C02 DATE: 05/22/8[illegible]
SHIFT STD: HG850521B22 TIME: 5:01

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*** D4-1,4-DICHLOROBENZENE (IS#1)	2494110.	1617980.	54.	PASS
*** D8-NAPHTHALENE (IS#2)	8591200.	5625050.	53.	PASS
*** D10-ACENAPHTHENE (IS#3)	4715580.	2987070.	58.	PASS
*** D10-PHENANTHRENE (IS#4)	7435230.	5065310.	47.	PASS
*** D12-CHRYSENE (IS#5)	3631190.	3587500.	1.	PASS
*** D12-PERYLENE (IS#6)	2644250.	3700150.	-28.	PASS

PROCEDURE: RK DIAGNOSTIC REPORT 5/22/85 5:33:11
DATA FILE: GR049822C22
REFERENCE: SSMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	68	53	14	1	153	SEMI1S1/SEMI1U1
3	3	4	37	28	11	1	45	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 25 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	01	1	-477	477	476	-1	1	944	.	152	476	.	3
2	03	1	-746	747	747	.	1	997	.	164	747	.	3
3	02	1	-588	588	589	1	1	993	.	136	588	-1	1
4	07	2	-373	372	372	.	1	915	.	112	372	.	1
5	01	2	-231	230	.	.	.	.	.	42	228	.	1
6	01	3	-454	454	.	.	.	.	.	94	453	.	1
7	01	4	-453	453	.	.	.	.	.	93	453	.	1
8	01	5	-459	459	.	.	.	.	.	93	461	.	1
9	01	6	-462	462	.	.	.	.	.	128	461	.	1
10	01	7	-473	473	478	5	1	925	.	146	478	.	1
11	01	8	-478	478	478	.	1	936	.	146	478	.	1
12	01	9	-492	492	.	.	.	.	.	108	.	.	
13	01	10	-494	494	.	.	.	.	.	146	491	.	2
14	01	11	-504	505	.	.	.	.	.	108	.	.	
15	01	12	-506	507	.	.	.	.	.	45	506	.	1
16	01	13	-516	517	.	.	.	.	.	108	.	.	
17	01	14	-517	518	.	.	.	.	.	70	516	.	1
18	01	15	-520	521	.	.	.	.	.	117	.	.	
19	01	16	-529	530	.	.	.	.	.	77	527	.	3
20	02	2	-549	550	.	.	.	.	.	82	547	.	3
21	02	3	-556	557	.	.	.	.	.	139	.	.	
22	02	4	-561	562	.	.	.	.	.	122	.	.	
23	02	5	-574	575	.	.	.	.	.	122	.	.	
24	02	6	-570	571	.	.	.	.	.	93	.	.	
25	02	7	-577	578	.	.	.	.	.	162	.	.	
26	02	8	-584	585	585	.	1	959	.	180	585	.	1
27	02	9	-589	590	.	.	.	.	.	128	590	.	2
28	02	10	-597	598	.	.	.	.	.	127	.	.	
29	02	11	-606	607	.	.	.	.	.	225	.	.	
30	02	12	-640	641	642	1	1	914	.	107	642	.	3
31	02	13	-651	652	.	.	.	.	.	142	653	.	1
32	03	2	-671	672	.	.	.	.	.	237	.	.	
33	03	3	-679	680	.	.	.	.	.	196	.	.	
34	03	4	-679	680	.	.	.	.	.	196	.	.	
35	03	5	-694	695	.	.	.	.	.	162	693	.	1
36	03	6	-707	708	.	.	.	.	.	65	710	.	2
37	03	7	-726	727	.	.	.	.	.	163	.	.	
38	03	8	-732	734	.	.	.	.	.	152	734	.	2
39	03	9	-707	708	.	.	.	.	.	138	.	.	
40	03	10	-749	751	750	-1	1	981	.	153	750	.	1
41	03	11	-753	755	.	.	.	.	.	184	.	.	
42	03	12	-763	765	.	.	.	.	.	139	764	.	4
43	03	13	-763	765	.	.	.	.	.	168	.	.	
44	03	14	-766	768	768	.	1	969	.	89	768	.	1
45	03	15	-732	734	.	.	.	.	.	165	.	.	
46	03	16	-789	791	.	.	.	.	.	149	791	.	2

50	07	3	-453	453	452	-1	1	913	.	99	452	.
51	07	4	-527	528	527	-1	1	937	.	82	527	.
52	07	5	-686	687	687	.	1	975	.	172	687	.
53	07	6	-817	819	819	.	1	942	.	141	819	.
54	04	1	-877	880	880	.	1	991	.	188	880	.
55	05	1	-1118	1122	1122	.	1	939	.	240	1122	.
56	06	1	-1314	1318	1318	.	4	1000	.	264	1318	.
57	04	2	-802	805	.	.	.	.	.	198	.	.
58	04	3	-805	807	.	.	.	.	.	169	809	.
59	04	4	-837	839	.	.	.	.	.	248	.	.
60	04	5	-850	852	.	.	.	.	.	284	.	.
61	04	6	-867	869	869	.	1	963	.	266	869	.
62	04	7	-879	882	882	.	1	947	.	178	882	.
63	04	8	-879	882	.	.	.	.	.	178	882	.
64	04	9	-935	938	937	-1	1	955	.	149	937	.
65	04	10	-987	990	990	.	1	991	.	202	990	.
66	05	2	-1006	1009	.	.	.	.	.	184	1009	.
67	05	3	-1007	1010	1010	.	1	986	.	202	1010	.
68	05	4	-1068	1071	.	.	.	.	.	149	1072	.
69	05	5	-1115	1119	.	.	.	.	.	252	.	.
70	05	6	-1117	1121	.	.	.	.	.	228	1124	.
71	05	7	-1124	1128	1128	.	1	967	.	149	1127	-1
72	05	8	-1121	1125	.	.	.	.	.	228	1124	.
73	06	2	-1195	1199	.	.	.	.	.	149	1200	.
74	06	3	-1255	1259	.	.	.	.	.	252	1259	.
75	06	4	-1255	1259	.	.	.	.	.	252	1259	.
76	06	5	-1304	1308	.	.	.	.	.	252	1308	.
77	06	6	-1558	1563	.	.	.	.	.	276	1560	.
78	06	7	-1565	1570	.	.	.	.	.	278	1570	.
79	06	8	.	.	.	.	.	.	.	276	.	.
80	07	7	-1022	1025	1025	.	1	986	.	244	1025	.
81	08	2	-1006	1009	1009	.	1	923	.	212	1009	.

DATA: GR049822C22.TI
05/22/85 5:01:00
SAMPLE: IUL 49822R(5:21:85)ON#22 CS#GEN TEST SS 277/307 +14647(035)
LONDS:
SUBMITTED BY: 22 ANALYST: 755

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*** D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*** D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	422 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
76	### D5-PHENOL (SS#2)
77	### D5-NITROBENZENE (SS#3)
78	### 2-FLUOROBIPHENYL (SS#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#6)
81	### D10 PYRENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	476	7:14	1	1.000	A BV	2494110.	40.000	NG	3.31
2	42	226	3:29	1	0.479	A VB	152960.	3.112	NG	0.26
3	94	453	6:55	1	0.952	A BV	7337030.	60.806	NG	5.03 Y
4	93	453	6:55	1	0.952	A BB	158304.	1.674	NG	0.14
5	93	461	7:03	1	0.968	A BV	182040.	1.809	NG	0.15
6	128	461	7:03	1	0.968	A BV	6529880.	74.497	NG	6.16Y
7	146	478	7:18	1	1.004	A BV	2791420.	29.080	NG	2.40Y
8	146	478	7:18	1	1.004	A BV	2791420.	29.395	NG	2.43Y
9	108	NOT FOUND								
10	146	491	7:30	1	1.032	A*VB	11104.	0.124	NG	0.01
11	108	NOT FOUND								
12	45	506	7:44	1	1.063	A VV	89945.	0.605	NG	0.05
13	108	NOT FOUND								
14	70	516	7:53	1	1.084	A VV	[illegible]	36.711	NG	3.04Y
15	117	NOT FOUND								
16	77	527	8:03	1	1.107	A*VV	22676.	0.248	NG	0.02
17	136	588	8:59	17	1.000	A BV	4521190.	40.000	NG	3.31
18	82	547	8:22	17	0.934	A*VV	[illegible]	0.226	NG	0.02
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
20	122	NOT FOUND							
21	122	NOT FOUND							
22	93	NOT FOUND							
23	162	NOT FOUND							
24	180	585	8:56	17	0.995	A BV	2418680.	32.634 NG	2.70 Y
25	128	590	9:01	17	1.003	A*VB	9504.	0.041 NG	0.00
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	642	9:49	17	1.092	A BV	5735260.	64.731 NG	5.35 Y
29	142	653	9:59	17	1.111	A VV	44608.	0.301 NG	0.02
30	164	747	11:25	30	1.000	A BV	4715580.	40.000 NG	3.31
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	693	10:35	30	0.928	A BB	2592.	0.018 NG	0.00
35	65	710	10:51	30	0.950	A*BB	3776.	0.060 NG	0.00
36	163	NOT FOUND							
37	152	734	11:13	30	0.983	A BB	7520.	0.037 NG	0.00
38	138	NOT FOUND							
39	153	750	11:28	30	1.004	A BV	4455360.	32.163 NG	2.66 Y
40	184	NOT FOUND							
41	139	764	11:41	30	1.023	A BV	574792.	4.901 NG	0.41
42	168	NOT FOUND							
43	89	768	11:44	30	1.028	A BV	1377880	22.291 NG	1.84 Y
44	165	NOT FOUND							
45	149	791	12:05	30	1.059	A BB	22304.	0.121 NG	0.01
46	204	NOT FOUND							
47	166	796	12:10	30	1.066	A*BB	7232.	0.049 NG	0.00
48	138	NOT FOUND							
49	188	880	13:27	45	1.000	A VV	4855360.	40.000 NG	3.31
50	198	NOT FOUND							
51	169	809	12:22	49	0.919	A BV	3168.	0.045 NG	0.00
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	869	13:17	49	0.987	A BV	1206240.	48.945 NG	4.05 Y
55	178	882	13:29	49	1.002	A BV	113408.	0.579 NG	0.05
56	178	882	13:29	49	1.002	A BV	113408.	0.715 NG	0.06
57	149	937	14:19	49	1.065	A VV	1216 5500.	40.134 NG	3.32 Y
58	202	990	15:08	49	1.125	A*BV	234616.	1.223 NG	0.10
59	240	1122	17:09	59	1.000	A VV	3631190.	40.000 NG	3.31
60	184	1009	15:25	59	0.899	A BB	77632.	45.312 NG	3.75 #
61	202	1010	15:26	59	0.900	A VV	4905370.	49.077 NG	4.06 Y
62	149	1072	16:23	59	0.955	A*VV	25782.	0.395 NG	0.03
63	252	NOT FOUND							
64	228	1124	17:11	59	1.002	A*BV	124032.	1.050 NG	0.09
65	149	1127	17:13	59	1.004	A VV	245860.	2.884 NG	0.24
66	228	1124	17:11	59	1.002	A VV	75456.	0.696 NG	0.06
67	264	1318	20:08	67	1.000	A BV	2644250.	40.000 NG	3.31
68	149	1200	18:20	67	0.910	A*VV	21291.	0.188 NG	0.02
69	252	1259	19:14	67	0.955	A*BV	67136.	1.961 NG	0.16 *
70	252	1259	19:14	67	0.955	A*BV	67136.	1.961 NG	0.16 *
71	252	1308	19:59	67	0.992	A*BV	29440.	0.413 NG	0.03
72	276	1560	23:50	67	1.184	A*VB	11072.	0.131 NG	0.01
73	278	1570	24:00	67	1.191	A VB	4384	0.067 NG	0.01
74	276	NOT FOUND							
75	112	372	5:41	1	0.782	A VV	5609540.	77.803 NG	6.43

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	452	6:54	1	0.950	A BV	766i240.	66.794	NG	5.52
77	82	527	8:03	17	0.896	A BV	3860760.	36.141	NG	2.99
78	172	687	10:30	30	0.920	A BV	5299100.	35.055	NG	2.90
79	141	819	12:31	30	1.096	A BV	882736.	66.348	NG	5.49
80	244	1025	15:40	59	0.914	A VV	4383230.	48.241	NG	3.99
81	212	1009	15:25	59	0.899	A VV	5936600.	47.546	NG	3.93

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:32	0.99	10.000	0.05	3.11	50.00	0.049	0.788	0.06
3	6:56	1.00	10.000	0.10	60.81	50.00	2.353	1.935	1.22
4	6:55	1.00	10.000	0.10	1.67	50.00	0.051	1.516	0.03
5	7:01	1.00	10.000	0.10	1.81	50.00	0.060	1.649	0.04
6	7:04	1.00	10.000	0.10	74.50	50.00	2.094	1.406	1.49
7	7:14	1.01	10.000	0.10	29.08	50.00	0.895	1.539	0.58
8	7:18	1.00	10.000	0.10	29.40	50.00	0.895	1.523	0.59
9	7:31		10.000			50.00		0.916	
10	7:33	0.99	10.000	0.10	0.12	50.00	0.004	1.437	0.00
11	7:42		10.000			50.00		1.265	
12	7:44	1.00	10.000	0.11	0.61	50.00	0.029	2.383	0.01
13	7:53		10.000			50.00		1.378	
14	7:54	1.00	10.000	0.11	36.71	50.00	1.031	1.404	0.73
15	7:57		10.000			50.00		0.831	
16	8:05	1.00	10.000	0.11	0.25	50.00	0.009	1.814	0.00
17	9:01	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:23	1.00	10.000	0.09	0.23	50.00	0.005	1.012	0.00
19	8:30		10.000			50.00		0.196	
20	8:34		10.000			50.00		0.343	
21	8:46		50.000			50.00		0.243	
22	8:43		10.000			50.00		0.471	
23	8:49		10.000			50.00		0.309	
24	8:55	1.00	10.000	0.10	32.63	50.00	0.225	0.345	0.65
25	9:00	1.00	10.000	0.10	0.04	50.00	0.001	1.083	0.00
26	9:07		10.000			50.00		0.400	
27	9:16		10.000			50.00		0.201	
28	9:47	1.00	10.000	0.11	64.73	50.00	0.534	0.413	1.29
29	9:57	1.00	10.000	0.11	0.30	50.00	0.004	0.690	0.01
30	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:15		10.000			50.00		0.241	
32	10:23		10.000			100.00		0.388	
33	10:23		50.000			100.00		0.388	
34	10.36	1.00	10.000	0.09	0.02	50.00	0.000	1.203	0.00
35	10:48	1.00	50.000	0.02	0.06	50.00	0.001	0.535	0.00
36	11:06		10.000			50.00		1.438	
37	11:11	1.00	10.000	0.10	0.04	50.00	0.001	1.718	0.00
38	10:48		50.000			50.00		0.406	
39	11:27	1.00	10.000	0.10	32.16	50.00	0.756	1.175	0.64
40	11:30		50.000			50.00		0.069	
41	11:40	1.00	50.000	0.02	4.90	50.00	0.098	0.995	0.10
42	11:40		10.000			50.00		1.596	
43	11.42	1.00	10.000	0.10	22.29	50.00	0.217	0.486	0.45
44	11:11		10.000			50.00		0.286	
45	12:03	1.00	10.000	0.11	0.12	50.00	0.004	1.569	0.00
46	12:08		10.000			50.00		0.549	
47	12:07	1.00	10.000	0.11	0.03	50.00	0.001	1.261	0.00
48	12:14		50.000			50.00		0.220	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:16		50.000			50.00		0.093	
51	12:18	1.00	10.000	0.09	0.05	50.00	0.000	0.377	0.00
52	12:47		10.000			50.00		0.205	
53	12:59		10.000			50.00		0.288	
54	13:15	1.00	50.000	0.02	48.94	50.00	0.136	0.139	0.98
55	13:26	1.00	10.000	0.10	0.58	50.00	0.012	1.054	0.01
56	13:31	1.00	10.000	0.10	0.72	50.00	0.012	0.853	0.01
57	14:17	1.00	10.000	0.11	40.13	50.00	1.094	1.363	0.80
58	15:05	1.00	10.000	0.11	1.22	50.00	0.025	1.033	0.02
59	17:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:22	1.00	50.000	0.02	45.31	50.00	0.017	0.019	0.91
61	15:23	1.00	10.000	0.09	49.08	50.00	1.434	1.461	0.98
62	16:19	1.00	10.000	0.10	0.39	50.00	0.006	0.719	0.01
63	17:02		20.000			50.00		0.297	
64	17:04	1.01	10.000	0.10	1.05	50.00	0.027	1.301	0.02
65	17:11	1.00	10.000	0.10	2.88	50.00	0.054	0.939	0.06
66	17:08	1.00	10.000	0.10	0.70	50.00	0.017	1.194	0.01
67	20:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:16	1.00	10.000	0.09	0.19	50.00	0.006	1.711	0.00
69	19:11	1.00	10.000	0.10	1.96	100.00	0.010	0.518	0.02
70	19:11	1.00	10.000	0.10	1.96	100.00	0.010	0.518	0.02
71	19:56	1.00	10.000	0.10	0.41	50.00	0.009	1.079	0.01
72	23:49	1.00	10.000	0.12	0.13	50.00	0.003	1.281	0.00
73	23:55	1.00	10.000	0.12	0.07	50.00	0.001	0.993	0.00
74	24:57		10.000			50.00		1.012	
75	5:42	1.00	0.742	1.05	77.80	50.00	1.799	1.156	1.56
76	6:55	1.00	0.948	1.00	66.79	50.00	2.457	1.840	1.34
77	8:03	1.00	0.875	1.02	36.14	50.00	0.360	0.497	0.72
78	10:29	1.00	0.906	1.01	35.05	50.00	0.899	1.282	0.70
79	12:29	1.00	1.118	0.98	66.35	50.00	0.151	0.114	1.33
80	15:37	1.00	0.907	1.01	48.24	50.00	0.966	1.001	0.96
81	15:22	1.00	0.906	0.99	47.55	50.00	1.308	1.375	0.95

CASE#: GEN TEST DATE: 5/24

SEMI-VOLATILE
GC/MS WORKSHEET

COMPUCHEM: 49822R

J1 ( ) R1(X) D1 ( ) C (:1)

J2( ) R2( ) D2( ) C (:1)

QC

LOW LEVEL SOLID
Deliverable Code 849

Sample Prep Code--- -717
Instrument Code---255
Compound List---144
Surrogate Std---393
Internal Std---035 (added by GC/MS)

SAS: EPA: SS 8/79 307 Dry Weight Factor 100

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid ml
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected ul
Date of Sample Bottle Analyzed 5/21/85
DFTPP Filename RHX505211822 Disk (2:7)
Standard Filename HSTK505211822 Disk (2:7)
Sample Filename G:R49822C22 Disk (7:2)

ANALYST(S): Injection 255 Work-up 755

GC/MS REVIEW

CONDITION CODE: EA

Entry Codes DK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,BH,TH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,DA
ED,IF,LA,DI,CO,RN,DW,NS

Disposition: [✓] Complete

[ ] Reinjection required

[ ] Reextraction required

[ ] Dilute (:1)

[ ] Reinject Neat

[ ] Send to QA

Extraneous Peak Search Results:
# of Peaks Found: 13

Quality Assurance Notice(s):
Notices Required

COMMENTS: RK 20 5-22-85 RR

GC/MS Review RR Date 5/24/85 Auditor Date / /

REPORT INTEGRATION Total # of Injections: 3
Final Reportable Package(s): FRL-C22

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

ERASOLID (1

NO	CC ID#	LAB CDE	COMPOUND NAME	QUANT REPORT VALUE	X	RESULT(*) (UG/KG)	DETECTION LIMIT (UG/KG)
2	441	___	N-NITROSODIMETHYLAMINE (Q1#2) <62-			BDL	330.0
3	610	___	PHENOL (Q1#3) <108-95-2>	60.8		2000.0	330.0
4	473	___	ANILINE (Q1#4) <62-53-3>			BDL	330.0
5	411	___	BIS(2-CHLOROETHYL)ETHER (Q1#5) <11			BDL	330.0
6	601	___	2-CHLOROPHENOL (Q1#6) <95-57-8>	74.5		2500.0	330.0
7	421	___	1,3-DICHLOROBENZENE (Q1#7) <541-73	~~27.1~~		~~970.0~~ BDL	330.0
8	422	___	1,4-DICHLOROBENZENE (Q1#8) <106-46	29.4		980.0	330.0
9	474	___	BENZYL ALCOHOL (Q1#9) <100-51-6>			BDL	330.0
10	420	___	1,2-DICHLOROBENZENE (Q1#10) <95-50			BDL	330.0
11	620	___	2-METHYLPHENOL (Q1#11) <95-48-7>			BDL	330.0
12	412	___	BIS(2-CHLOROISOPROPYL)ETHER (Q1#12			BDL	330.0
13	622	___	4-METHYLPHENOL (Q1#13) <106-44-5>			BDL	330.0
14	442	___	N-NITROSO-DI-N-PROPYLAMINE (Q1-14	36.7		1200.0	330.0
15	436	___	HEXACHLOROETHANE (Q1#15) <67-72-1>			BDL	330.0
16	440	___	NITROBENZENE (Q1#16) <98-95-3>			BDL	330.0
17	438	___	ISOPHORONE (Q2#2) <78-59-1>			BDL	330.0
18	606	___	2-NITROPHENOL (Q2#3) <88-75-5>			BDL	330.0
19	603	___	2,4-DIMETHYLPHENOL (Q2#4) <105-67-			BDL	330.0
20	625	___	BENZOIC ACID (Q2#5) <65-85-0>			BDL	1700.0
21	410	___	BIS(2-CHLOROETHOXY)METHANE (Q2-5			BDL	330.0
22	602	___	2,4-DICHLOROPHENOL (Q2#7) <120-83-			BDL	330.0
23	446	___	1,2,4-TRICHLOROBENZENE (Q2#8) <120	32.6		1100.0	330.0
24	439	___	NAPHTHALENE (Q2#9) <91-20-3>			BDL	330.0
25	475	___	4-CHLOROANILINE (Q2#10) <106-47-8>			BDL	330.0
26	434	___	HEXACHLOROBUTADIENE (Q2#11) <87-68-			BDL	330.0
27	608	___	P-CHLORO-M-CRESOL (Q2#12) <59-50-7	64.7		2200.0	330.0
28	477	___	2-METHYLNAPHTHALENE (Q2#13) <91-57			BDL	330.0
29	435	___	HEXACHLOROCYCLOPENTADIENE (Q3#1) <			BDL	330.0
30	611	___	2,4,6-TRICHLOROPHENOL (Q3#3) <88-0			BDL	330.0
31	626	___	2,4,5-TRICHLOROPHENOL (Q3#4) <95-9			BDL	1700.0
32	416	___	2-CHLORONAPHTHALENE (Q3#5) <91-58-			BDL	330.0
33	478	___	2-NITROANILINE (Q3#6) <88-74-4>			BDL	1700.0
34	425	___	DIMETHYL PHTHALATE (Q3#7) <131-11-			BDL	330.0
35	402	___	ACENAPHTHYLENE (Q3#8) <208-96-8>			BDL	330.0
36	479	___	3-NITROANILINE (Q3#9) <99-09-2>			BDL	1700.0
37	401	___	ACENAPHTHENE (Q3#10) <83-32-9>	32.2		1100.0	330.0
38	605	___	2,4-DINITROPHENOL (Q3#11) <51-28-5			BDL	1700.0
39	607	___	4-NITROPHENOL (Q3#12) <100-02-7>			BDL	1700.0
40	476	___	DIBENZOFURAN (Q3#13) <132-64-9>			BDL	330.0
41	427	___	2,4-DINITROTOLUENE (Q3#14) <121-14	22.3		740.0	330.0
42	428	___	2,6-DINITROTOLUENE (Q3#15) <606-20			BDL	330.0
43	424	___	DIETHYL PHTHALATE (Q3#16) <84-66-2			BDL	330.0
44	417	___	4-CHLOROPHENYL PHENYL ETHER (Q3#17			BDL	330.0
45	432	___	FLUORENE (Q3#18) <86-73-7>			BDL	330.0
46	480	___	4-NITROANILINE (Q3#19) <100-01-6>			BDL	1700.0
47	604	___	4,6-DINITRO-2-METHYLPHENOL (Q4#1			BDL	1700.0
48	443	___	N-NITROSODIPHENYLAMINE (Q4#3) <86-			BDL	330.0
49	414	___	4-BROMOPHENYL PHENYL ETHER (Q4#4)			BDL	330.0
50	433	___	HEXACHLOROBENZENE (Q4#5) <118-74-1			BDL	330.0
51	619	___	PENTACHLOROPHENOL (Q4#6) <87-8	45.5		J	1700.0
52	444	___	PHENANTHRENE (Q4#7) <85-01-8>			BDL	330.0
53	413	___	ANTHRACENE (Q4#8) <120-12-7>			BDL	330.0
54	426	___	DI-N-BUTYL PHTHALATE (Q4#9) <84-74	46.1		1300.0	330.0
55	431	___	FLUORANTHENE (Q4#10) <206-44-0			BDL	330.0

No	CC ID#	Lab Cde	Compound Name	Quant Report Value	X	Result(*) (ug/kg)	Detection Limit (ug/kg)
60	404	___	BENZIDINE (Q5#2) <92-87-5>	~~45.3~~		~~BDL~~	1700.0
61	445	___	PYRENE (Q5#3) <129-00-0>	49.1		1600.0	330.0
62	415	___	BUTYLBENZYL PHTHALATE (Q5#4) <85-6			BDL	330.0
63	423	___	3,3'-DICHLOROBENZIDINE (Q5#5) <91-			BDL	670.0
64	405	___	BENZO(A)ANTHRACENE (Q5#6) <56-55-3			BDL	330.0
65	413	___	BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7)			BDL	330.0
66	418	___	CHRYSENE (Q5#8) <218-01-9>			BDL	330.0
68	429	___	DI-N-OCTYL PHTHALATE (Q6#2) <117-8			BDL	330.0
69	407	___	BBNZO(B)FLUORANTHENE (Q6#3) <205-9			BDL	330.0
70	409	___	BENZO(K)FLUORANTHENE (Q6#4) <207-0			BDL	330.0
71	406	___	BENZO(A)PYRENE (Q6#5) <50-32-8>			BDL	330.0
72	437	___	INDENO(1,2,3-C,D)PYRENE (Q6#6) <19			BDL	330.0
73	419	___	DIBENZO(A,H)ANTHRACENE (Q6#7) <1-			BDL	330.0
74	408	___	BENZO(G,H,I)PERYLENE (Q6#8) <191-2			BDL	330.0

IR

Semi-Volatile - Low Level Solid

No	GC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P
75	##	2-FLUOROPHENOL (SS#1)	77.8	98.4	79.0	20-140	X
76	##	D5-PHENOL (SS#2)	66.8	98.4	68.0	20-140	X
77	##	D5-NITROBENZENE (SS#3)	36.1	49.2	73.0	20-140	X
78	##	2-FLUOROBIPHENYL (SS#4)	35.0	49.2	71.0	20-140	X
79	##	2,4,6-TRIBROMOPHENOL (SS#5)	66.3	98.4	67.0	10-140	X
80	##	D14-TERPHENYL (SS#6)	48.2	49.2	98.0	20-150	X
81	##	D10 PYRENE	47.5	49.2	97.0	33-128*	X

IR

* Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#52) D10-Phenanthrene > 40000 Cnts ___ ___

Correction Factor Calculation:

$$\frac{\text{Final Extract Volume (ml)}}{\text{Split Factor (*)}} \times \frac{30.0\text{g}}{\text{Amount Extracted(g)}} \times \text{Dry Weight Factor} \times \text{GC/MS Dilution Factor} \times 33.3 =$$

$$\frac{0.6\text{ml}}{0.590} \times \frac{30.0\text{g}}{30.5\text{g}} \times \frac{1.0}{1.0} \times 33.3 = 33.300$$

* Split Factor = (295/300)(6/10) if PEST/TCDD Volumes are indicated on log
= 1 if PEST/TCDD Volumes are NOT indicated on Extraction log

Quant Report Amount Spiked Conversion Factor:

$$\frac{1000\text{ ul}}{\text{Amount Surrogate Added (ul)}} \times \frac{\text{Final Extract Vol (ml)}}{\text{Split Factor}} \times \text{GCMS Dilution Factor} =$$

$$\frac{1000\text{ ul}}{500\text{ ul}} \times \frac{0.6\text{ml}}{0.590\text{ml}} \times \frac{1.0}{} = 2.030$$

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO ~~EXT~~ DeLoach L.H.L

DATE ASSIGNED 5/21/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	FINAL EXTRACT VOL. (MLS) SV B/N	FINAL EXTRACT VOL. (MLS) ACID	FINAL EXTRACT VOL. (MLS) PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
11952 R	717	Synthetic	609	SS	49827	30.63		0.6ml		4ml			5/21	Re 49827 84 279/307
11952 R			611	SS	49827	30.51g		0.6ml		4.0ml			5/21	Test. Back up SK
S1044				SS		30.0ml		0.6	0.6ml	4.0ml			5/21	
S1045				SS2		30.0ml		0.6	0.6ml	4.0ml			5/21	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT	14693					
SPIKE	NO.						
	AMT.		0.5ml	0.5ml			
	LOT		14655	14687			

MANUAL COUNTER 216/310

FINAL VOLUME VERIFIED L.H.L.

SUPERVISOR REVILWED [illegible]

EXTRACTS RECEIVED BY BD 5/21/85

Stored in Hood 5/21

№ 6187