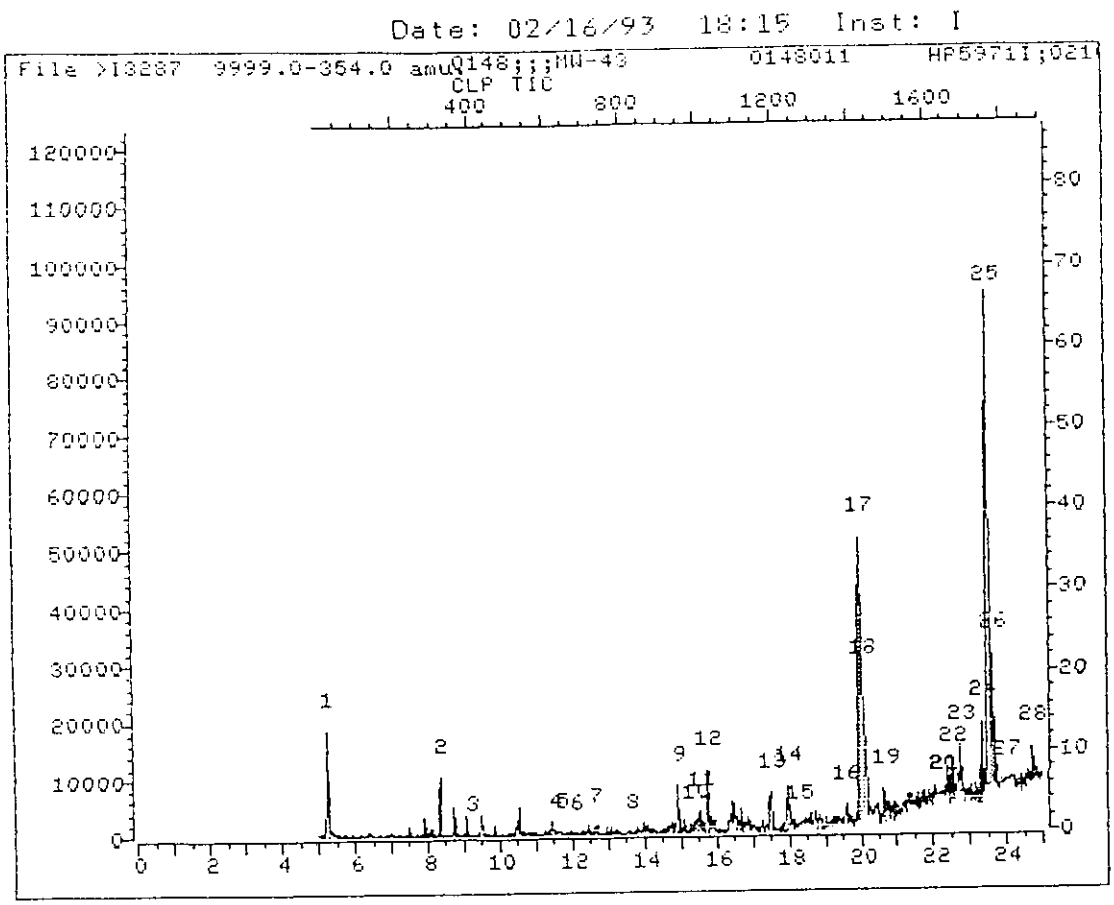
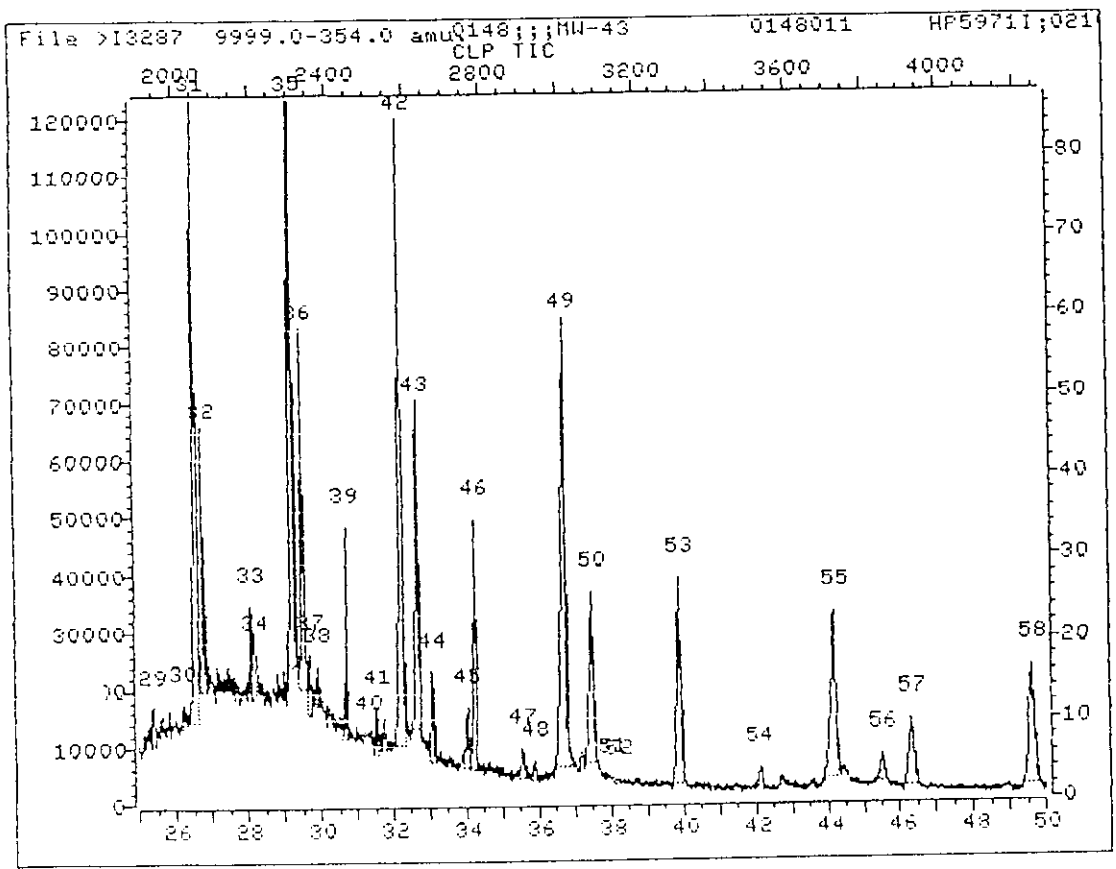

Date: 02/16/93 18:15 Inst: I
File >I3287 9999.0-354.0 amu Q148;;;MW-43 0148011 HP5971I;021
CLP TIC

0400


File >I3287 9999.0-354.0 amu Q148;;;MW-43 0148011 HP5971I;021
CLP TIC

MW-43
HP5971I

Date: 02/16/93 18:15 Inst: I

0401

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
49.	36.74	712521.	59.	6.	.51
42.	32.24	790211.	58.	5.	.51
31.	26.56	551583.	46.	4.	.51
35.	29.25	582923.	43.	5.	.51
25.	23.51	330072.	27.	4.	.51
55.	44.18	320544.	27.	6.	.51
53.	39.89	237293.	20.	6.	.51
43.	32.66	276415.	20.	5.	.51
58.	49.61	234161.	20.	6.	.51
50.	37.47	213064.	18.	6.	.51
36.	29.49	230608.	17.	5.	.51
46.	34.21	186082.	14.	5.	.51
17.	19.94	140078.	13.	3.	.51
51.	37.98	129673.	11.	6.	.51
32.	26.74	128939.	11.	4.	.51
57.	46.32	105441.	9.	6.	.51
39.	30.66	117283.	9.	5.	.51
1.	5.21	41495.	6.	1.	.51
44.	33.06	63069.	5.	5.	.51
2.	8.30	22975.	4.	1.	.51
24.	23.29	47552.	4.	4.	.51
9.	14.92	32574.	4.	2.	.51
.	23.63	49123.	4.	4.	.51
15.	17.46	26158.	3.	2.	.51
33.	28.06	39607.	3.	5.	.51
14.	17.93	30832.	3.	3.	.51
45.	34.02	44786.	3.	5.	.51
12.	15.73	24953.	3.	2.	.51
23.	22.73	34012.	3.	4.	.51
47.	35.54	28204.	2.	6.	.51
41.	31.52	31402.	2.	5.	.51
37.	29.70	31748.	2.	5.	.51
11.	15.53	17367.	2.	2.	.51

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.12	131205.	0.00	13.75	5.6
NAPHTHALENE-D8	15.38	170518.	13.75	17.71	2.0
ACENAPHTHENE-D10	20.05	216492.	17.71	22.00	4.4
PHENANTHRENE-D10	23.95	250076.	22.00	27.61	2.7
CHRYSENE-D12	31.28	278511.	27.61	34.73	3.4
PERYLENE-D12	38.17	244466.	34.73	49.61	2.9

ISTD peaks found: 6
Surrogate peaks found: 8
ıant target peaks expected: 5
Target peaks matched: 0
Total TIC identified: 33

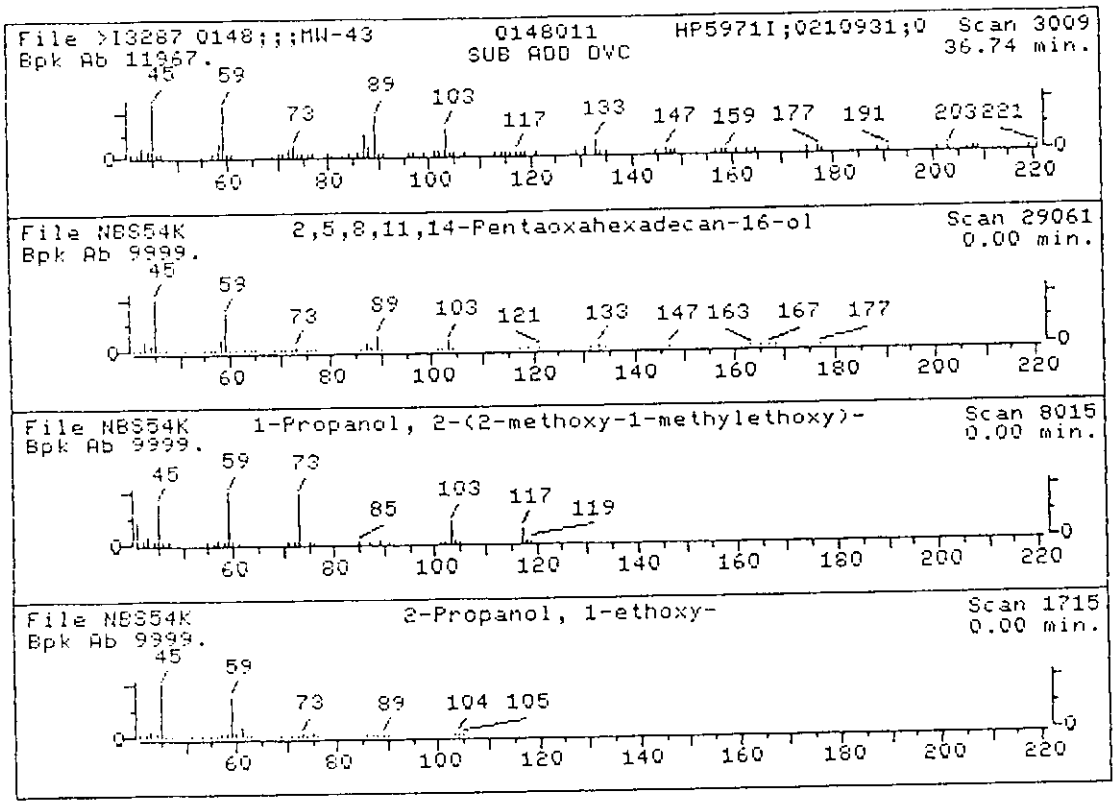
2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H2406
. 1-Propanol, 2-(2-methoxy-1-methylethoxy)-	148	C7H1603
3. 2-Propanol, 1-ethoxy-	104	C5H1202
4. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H1604
5. Silane, ethyldimethyl-	88	C4H12

0402

Sample file: >I3287 Spectrum #: 3009
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29	23778521	8670	NBS54K	43	86	0	0	100	38	10	15
2.	25	55956213	1970	NBS54K	55	48	2	0	95	46	7	12
3.	20*	1569024	1853	NBS54K	34	60	1	0	90	55	5	18
4.	20	112356	8547	NBS54K	33	66	0	0	82	52	5	15
5.	11*	758214	1807	NBS54K	43	55	2	0	65	61	2	18

Peak#: 49 Area: 712521. Est Conc: 59. Date: 02/16/93 18:15 Inst: I

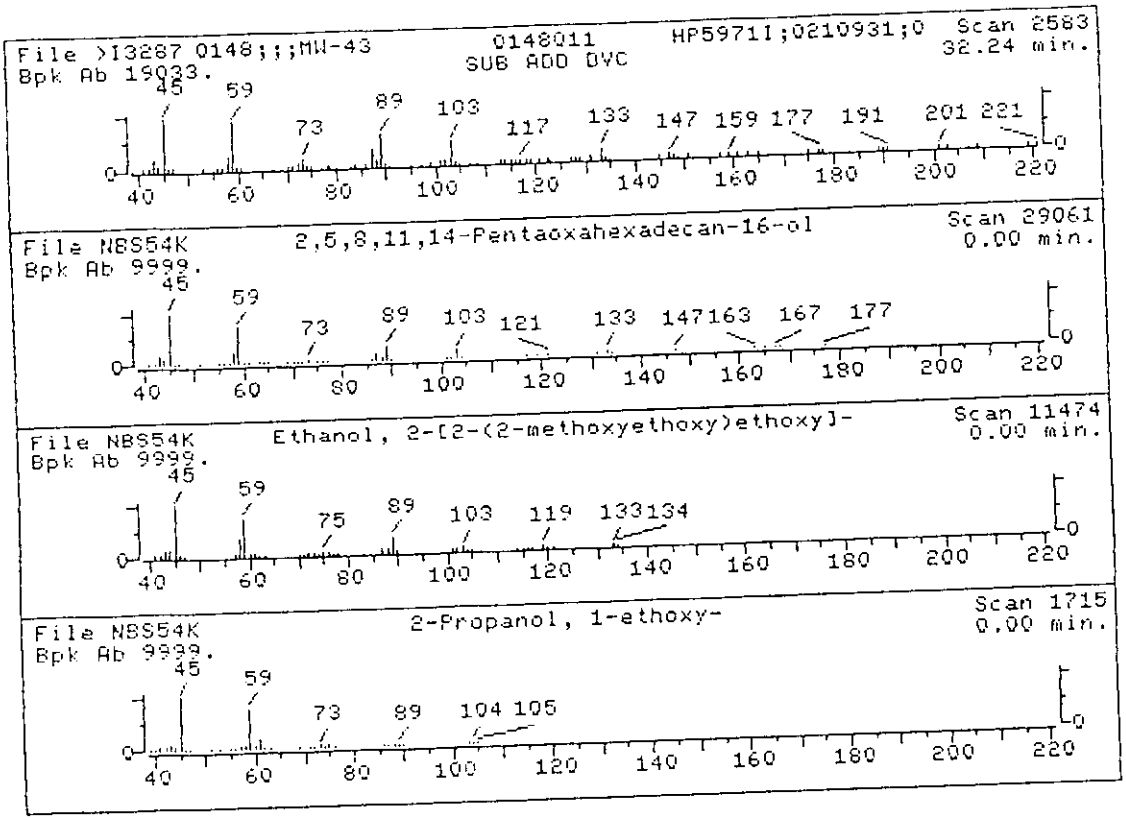


2,5,8,11,14-Pentaoxahexadecan-16-ol — 252 C11H24O6
4. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]- — 164 C7H16O4
3. 2-Propanol, 1-ethoxy- — 104 C5H12O2
4. 2-Butanol, 3,3'-oxybis- — 162 C8H18O3
5. Silane, ethyldimethyl- — 88 C4H12Si

Sample file: >I3287 Spectrum #: 2583 No. of ion ranges searched: 44
Search speed: 1 Tilting option: N

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	38	23778521	8670	NBS54K	43	86	0	0	97	28	14	15
2.	28	112356	8547	NBS54K	39	60	0	0	80	43	8	16
3.	25*	1569024	1853	NBS54K	34	60	1	0	83	48	7	18
4.	20	54305612	2000	NBS54K	37	48	1	0	90	55	5	14
5.	20*	758214	1807	NBS54K	37	61	2	0	61	55	5	15

Peak#: 42 Area: 790211. Est Conc: 58. Date: 02/16/93 18:15 Inst: 1

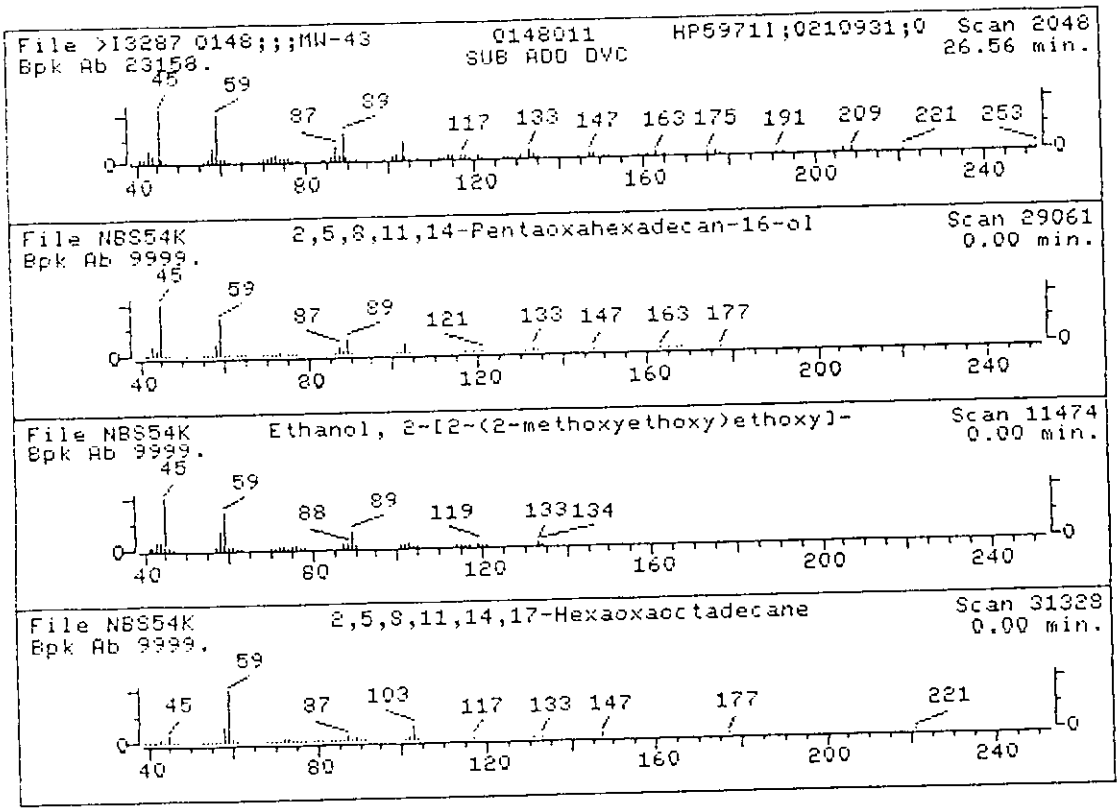


2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H2406
. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H1604.
3. 2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H2606
4. 2-Propanol, 1-ethoxy-	104	C5H1202
5. Silane, ethyldimethyl-	88	C4H12Si

Sample file: >I3287 Spectrum #: 2048
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	23778521	8670	NBS54K	75	54	0	0	100	17	32	55
2.	43	112356	8547	NBS54K	49	50	1	0	85	22	17	14
3.	30	1191873	2071	NBS54K	51	69	0	0	86	49	10	22
4.	26*	1569024	1853	NBS54K	28	66	2	0	100	41	8	14
5.	25*	758214	1807	NBS54K	25	73	3	0	87	50	7	13

Peak#: 31 Area: 551583. Est Conc: 45. Date: 02/16/93 18:15 Inst: I



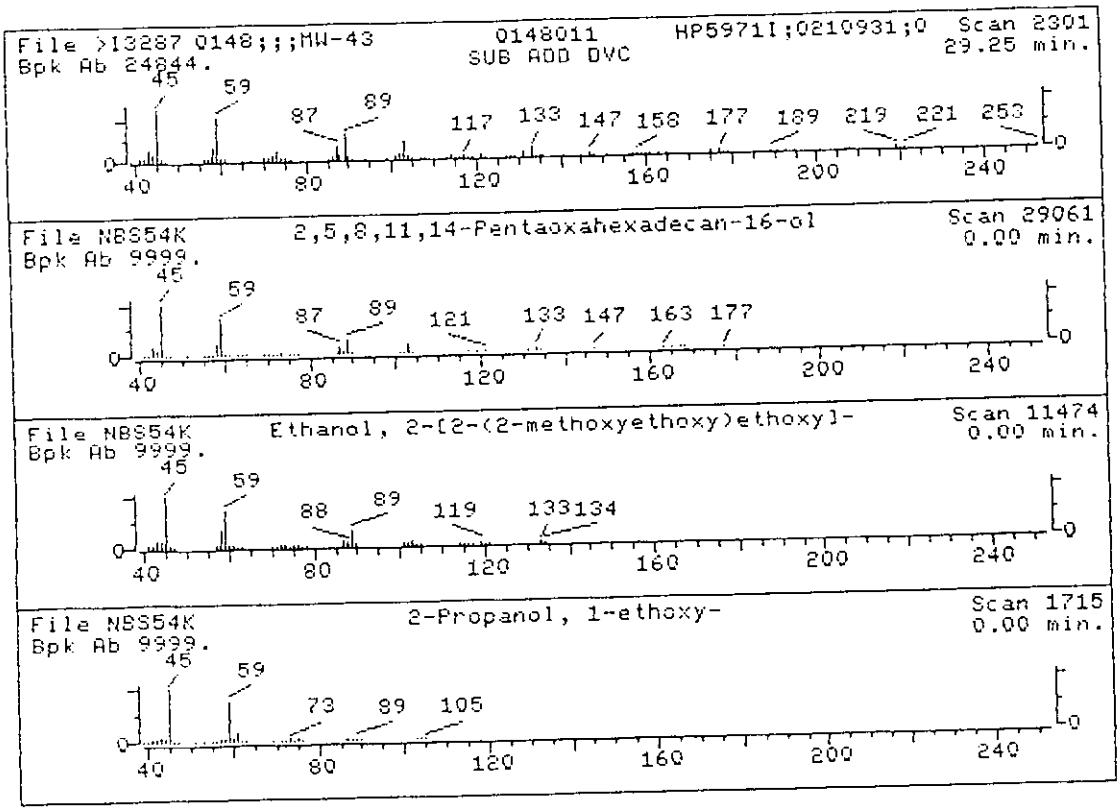
2,5,8,11,14-Pentaoxahexadecan-16-ol
_. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-
3. 2-Propanol, 1-ethoxy-
4. 2,5,8,11,14,17-Hexaoxaoctadecane
5. 2-Butanol, 3,3'-oxybis-

252 C11H24O6
164 C7H16O4
104 C5H12O2
266 C12H26O6
162 C8H18O3

Sample file: >I3287 Spectrum #: 2301
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	66	23778521	8670	NBS54K	70	59	0	0	100	16	31	46
2.	30	112356	8547	NBS54K	39	60	0	0	74	38	10	16
3.	28*	1569024	1853	NBS54K	24	70	2	0	100	40	10	14
4.	25	1191873	2071	NBS54K	37	79	0	0	71	49	7	15
5.	15	54305612	2000	NBS54K	33	52	0	0	61	56	3	17

Peak#: 35 Area: 582923. Est Conc: 43. Date: 02/16/93 18:15 Inst: I



. 2,5,8,11,14-Pentaoxahexadecan-16-ol
. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-
3. Propane, 1,2,3-trimethoxy-
4. 2-Propanol, 1-ethoxy-
5. 2,5,8,11,14,17-Hexaoxaoctadecane

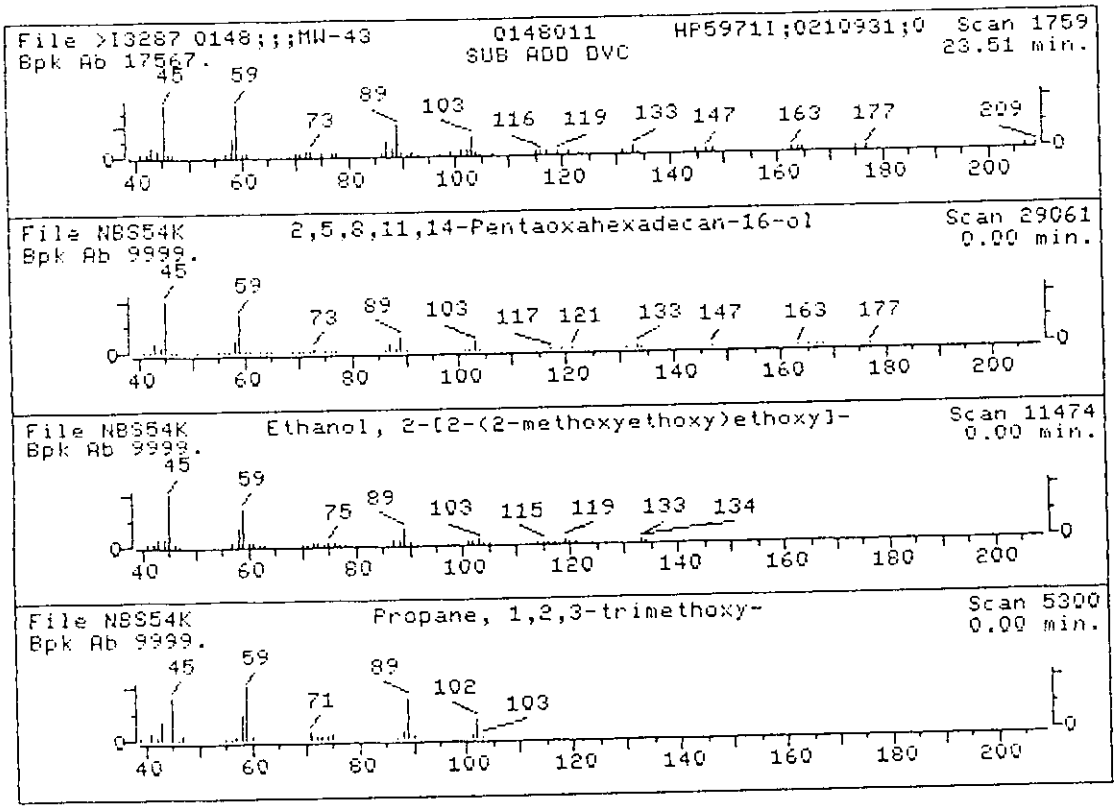
252 C11H24O6
164 C7H16O4
134 C6H14O3
104 C5H12O2
266 C12H26O6

0406

Sample file: >I3287 Spectrum #: 1759
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71	23778521	8670	NBS54K	63	66	0	0	100	15	38	31
2.	64	112356	8547	NBS54K	66	33	0	0	100	22	28	43
3.	29	20637494	8497	NBS54K	61	51	2	0	71	32	12	12
4.	26*	1569024	1853	NBS54K	28	66	2	0	100	41	8	14
5.	25	1191873	2071	NBS54K	57	59	1	0	98	49	7	15

Peak#: 25 Area: 330072. Est Conc: 27. Date: 02/16/93 18:15 Inst: I

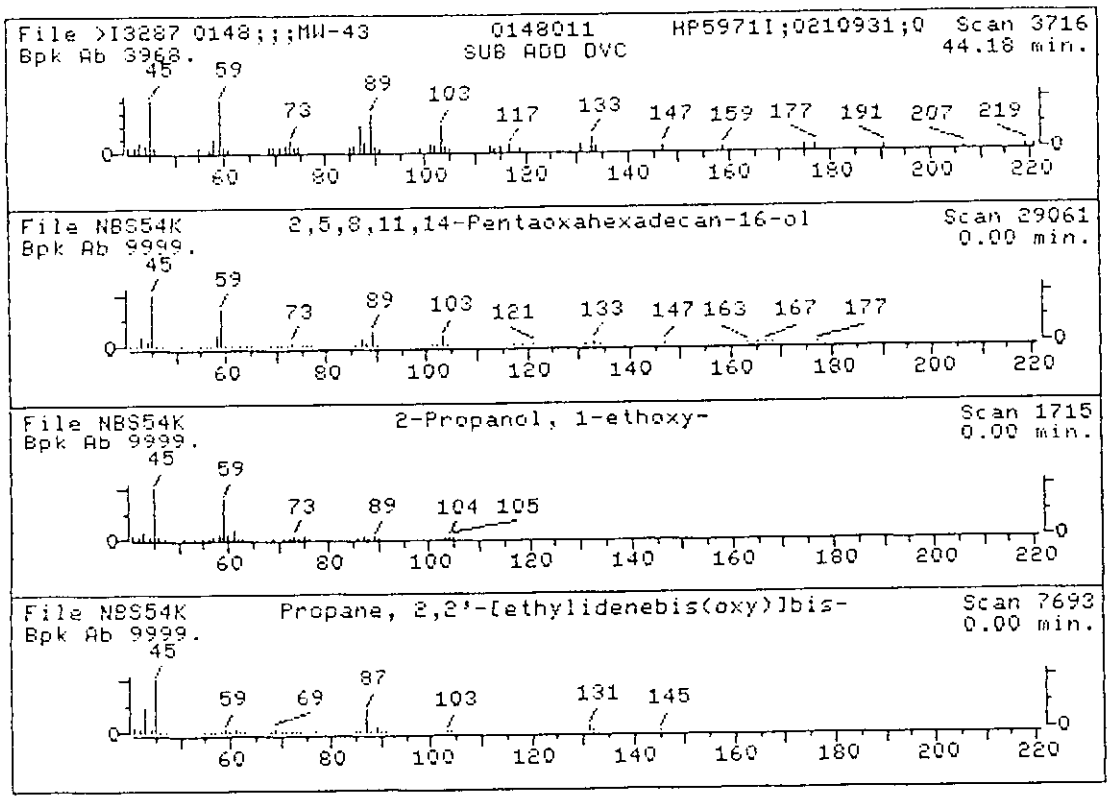


	2,5,8,11,14-Pentaoxahexadecan-16-ol	252 C11H24O6
..	2-Propanol, 1-ethoxy-	104 C5H12O2
3.	Propane, 2,2'-[ethylidenebis(oxy)]bis-	146 C8H18O2
4.	1-Propanol, 2-(2-hydroxypropoxy)-	134 C6H14O3
5.	Hydrazine, (1-methylpropyl)-	88 C4H12N2

Sample file: >I3287 Spectrum #: 3716
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	32	23778521	8670	NBS54K	32	97	0	0	100	35	12	15
2.	25*	1569024	1853	NBS54K	28	66	1	0	100	50	7	15
3.	15	4285590	7723	NBS54K	34	56	1	0	93	57	3	12
4.	11	106627	1939	NBS54K	28	58	0	0	99	62	2	14
5.	11*	30924142	8034	NBS54K	23	79	2	0	88	64	2	13

Peak#: 55 Area: 320544. Est Conc: 27. Date: 02/16/93 18:15 Inst: I

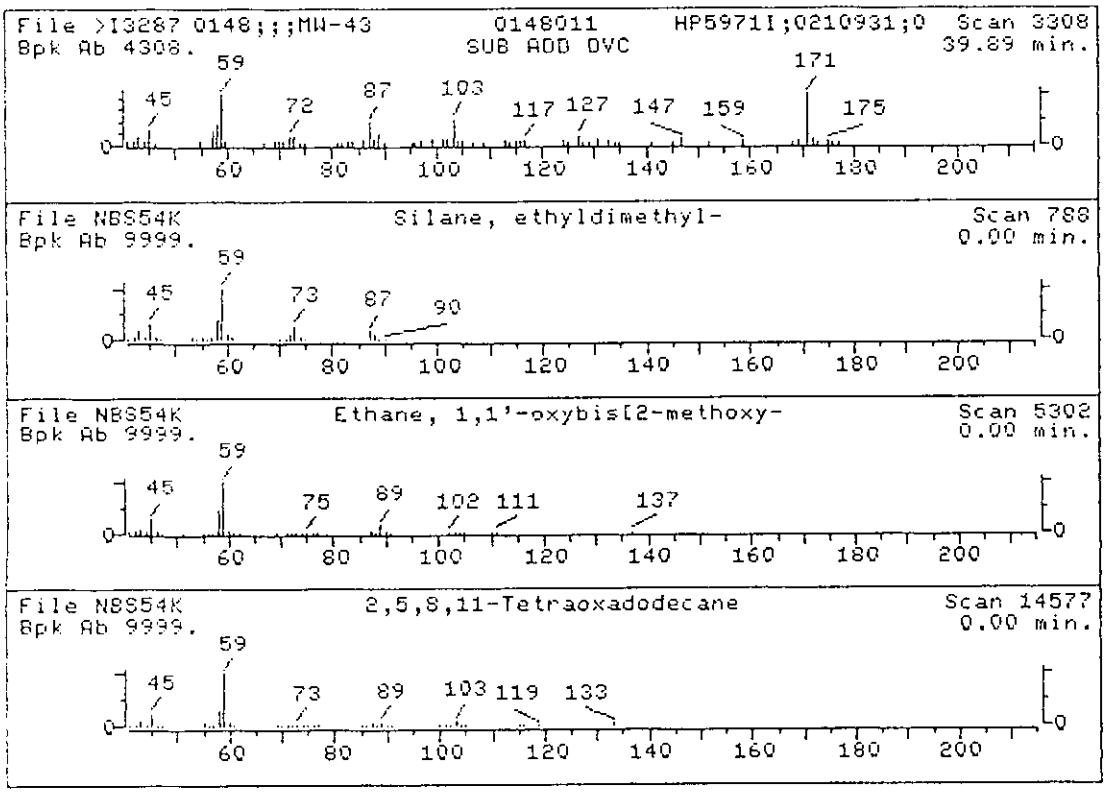


1.	Silane, ethyldimethyl-	88	C4H12Si
2.	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3
3.	2,5,8,11-Tetraoxadodecane	178	C8H18O4
4.	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5
5.	4-Hydroxy-3-hexanone	116	C6H12O2

Sample file: >I3287 Spectrum #: 3308
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	18*	758214	1807	NBS54K	48	50	1	0	77	56	4	29
2.	18	111966	1938	NBS54K	43	47	0	0	95	56	4	24
3.	15	112492	2024	NBS54K	35	63	0	0	100	59	3	15
4.	15	143248	2057	NBS54K	26	84	0	0	100	56	3	13
5.	11*	4984854	1869	NBS54K	32	56	1	0	100	62	2	17

Peak#: 53 Area: 237293. Est Conc: 20. Date: 02/16/93 18:15 Inst: I

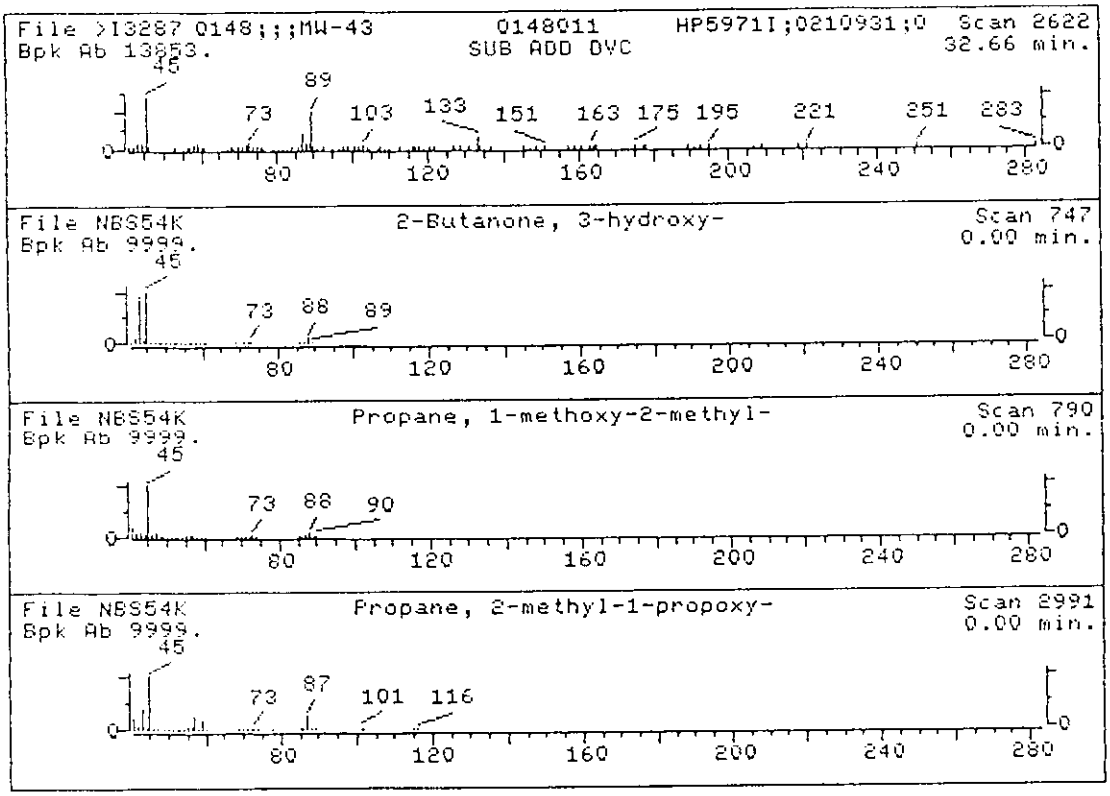


. 2-Butanone, 3-hydroxy-	88	C4H8O2
. Propane, 1-methoxy-2-methyl-	88	C5H12O
3. Propane, 2-methyl-1-propoxy-	116	C7H16O
4. 1,3-Butanediol	90	C4H10O2
5. 2,3-Butanediol	90	C4H10O2

Sample file: >I3287 Spectrum #: 2622
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	513860	346	NBS54K	29	56	2	0	100	50	7	14
2.	25*	625445	348	NBS54K	27	55	2	0	100	50	7	14
3.	24*	15268492	7618	NBS54K	22	64	3	0	100	43	8	12
4.	15*	107880	351	NBS54K	30	45	2	0	100	56	3	15
5.	15*	513859	350	NBS54K	21	60	2	0	100	56	3	13

Peak#: 43 Area: 276415. Est Conc: 20. Date: 02/16/93 18:15 Inst: I

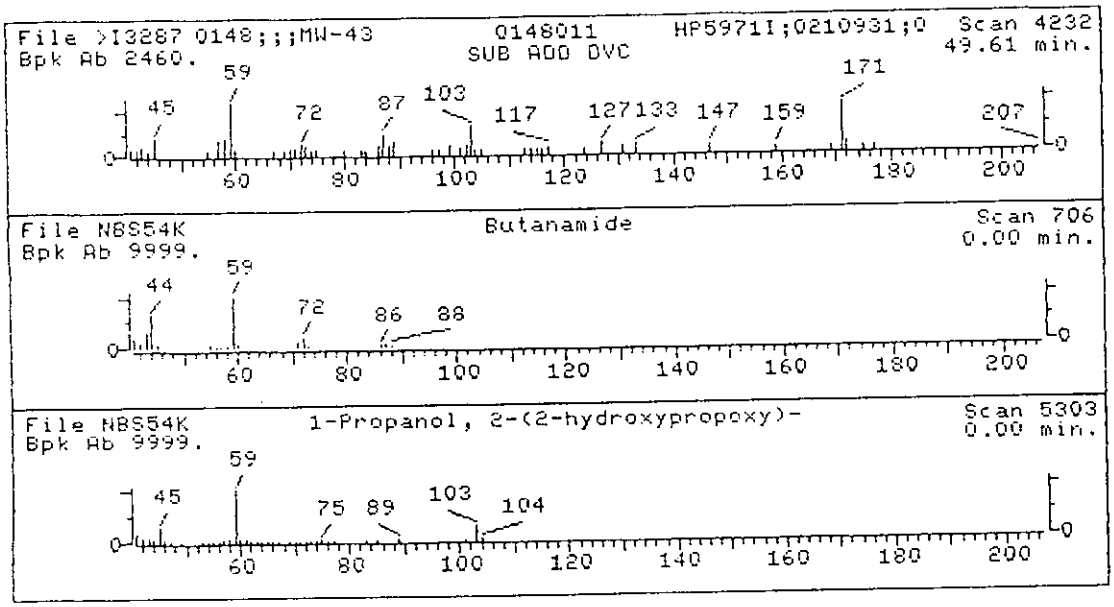


1. Butanamide — 87 C4H9NO
2. 1-Propanol, 2-(2-hydroxypropoxy)- — 134 C6H14O3

Sample file: >I3287 Spectrum #: 4232
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11*	541355	1804	NBS54K	32	55	2	0	100	64	2	16
2.	11	106627	1939	NBS54K	25	61	0	0	100	65	2	12

Peak#: 58 Area: 234161. Est Conc: 20. Date: 02/16/93 18:15 Inst: I

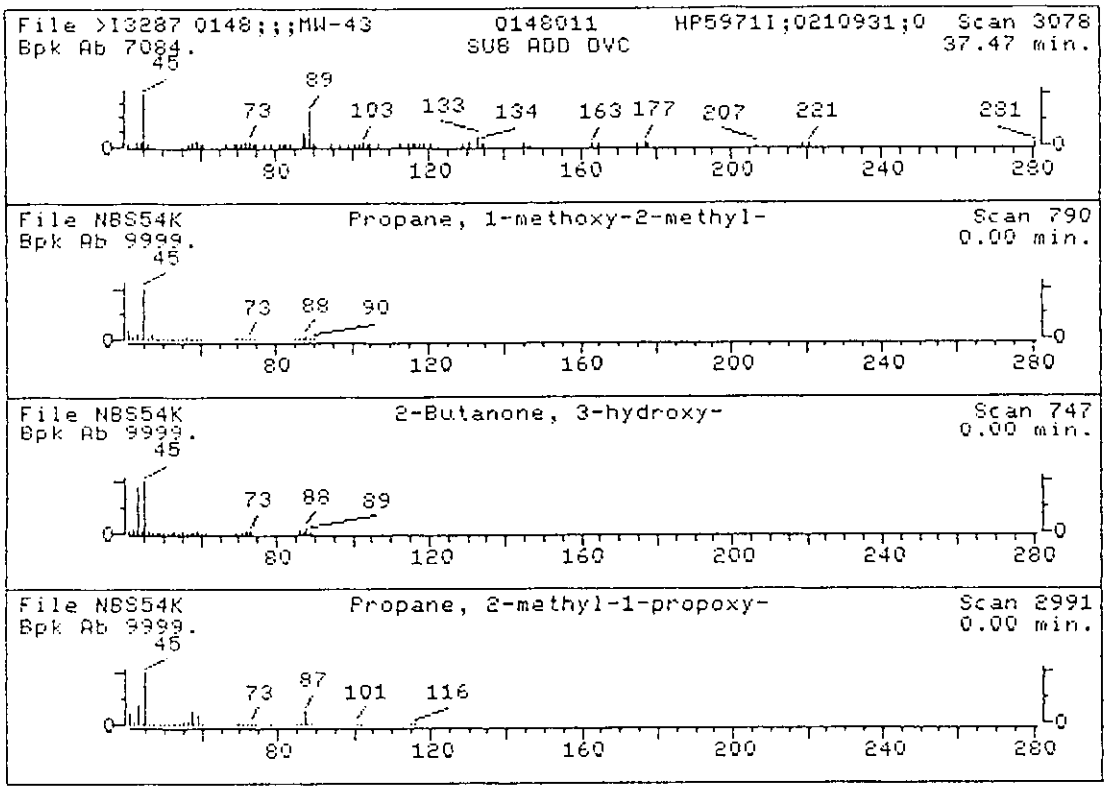


	Propane, 1-methoxy-2-methyl-	88 C5H12O
.	2-Butanone, 3-hydroxy-	88 C4H8O2
3.	Propane, 2-methyl-1-propoxy-	116 C7H16O
4.	Acetaldehyde, methoxy-	74 C3H6O2
5.	1,3-Butanediol	90 C4H10O2

Sample file: >I3287 Spectrum #: 3078
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	625445	348	NBS54K	27	55	2	0	100	44	8	14
2.	26*	513860	346	NBS54K	24	61	2	0	100	44	8	14
3.	26*	15268492	7618	NBS54K	22	64	3	0	100	37	10	12
4.	25*	10312831	339	NBS54K	24	28	2	0	100	50	7	14
5.	25*	107880	351	NBS54K	22	53	2	0	100	50	7	13

Peak#: 50 Area: 213064. Est Conc: 18. Date: 02/16/93 18:15 Inst: I

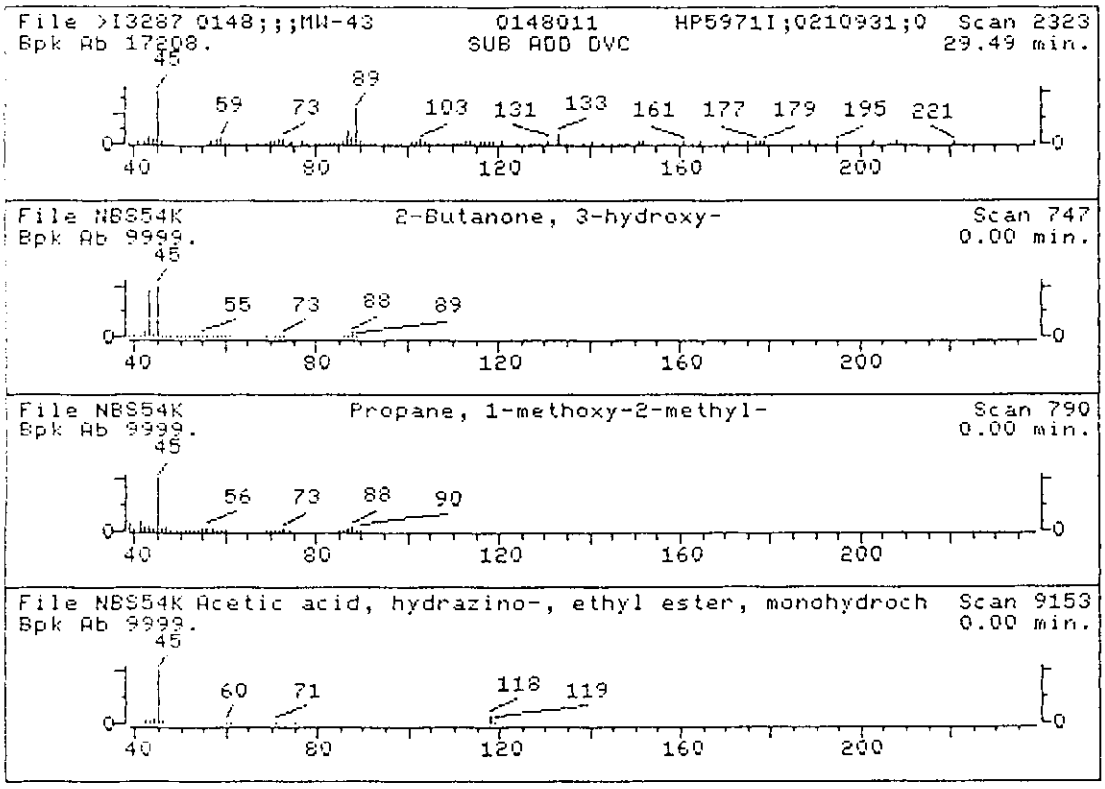


2.	Propane, 1-methoxy-2-methyl-	88	C5H12O
3.	Acetic acid, hydrazino-, ethyl ester, monohydrochlor ide	154	C4H11ClN2O2
4.	1,3-Butanediol	90	C4H10O2
5.	Propanoic acid, 2-hydroxy-, methyl ester, (.+-.)- (9 CI)	104	C4H8O3

Sample file: >I3287 Spectrum #: 2323
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	513860	346	NBS54K	29	56	2	0	100	47	7	14
2.	25*	625445	348	NBS54K	21	61	2	0	100	47	7	13
3.	20	6945922	371	NBS54K	33	56	1	0	68	53	5	12
4.	20*	107880	351	NBS54K	24	51	2	0	100	53	5	14
5.	20*	2155308	153	NBS54K	21	57	1	0	74	52	5	14

Peak#: 36 Area: 230608. Est Conc: 17. Date: 02/16/93 18:15 Inst: I

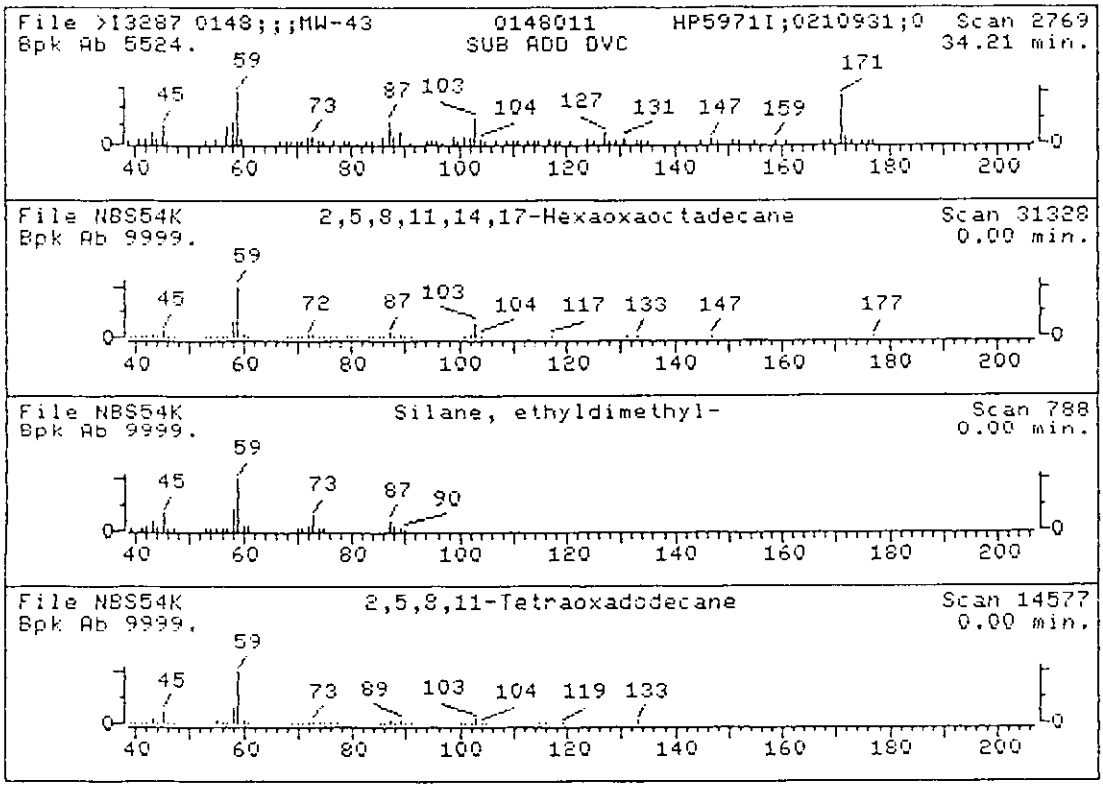


	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6
2.	Silane, ethyldimethyl-	88	C4H12Si
3.	2,5,8,11-Tetraoxadodecane	178	C8H18O4
4.	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5
5.	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3

Sample file: >I3287 Spectrum #: 2769
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20	1191873	2071	NBS54K	36	80	0	0	100	53	5	15
2.	15*	758214	1807	NBS54K	48	50	3	0	100	56	3	15
3.	15	112492	2024	NBS54K	40	58	0	0	100	59	3	17
4.	15	143248	2057	NBS54K	26	84	0	0	100	57	3	13
5.	11	111966	1938	NBS54K	43	47	1	0	96	61	2	15

Peak#: 46 Area: 186082. Est Conc: 14. Date: 02/16/93 18:15 Inst: I

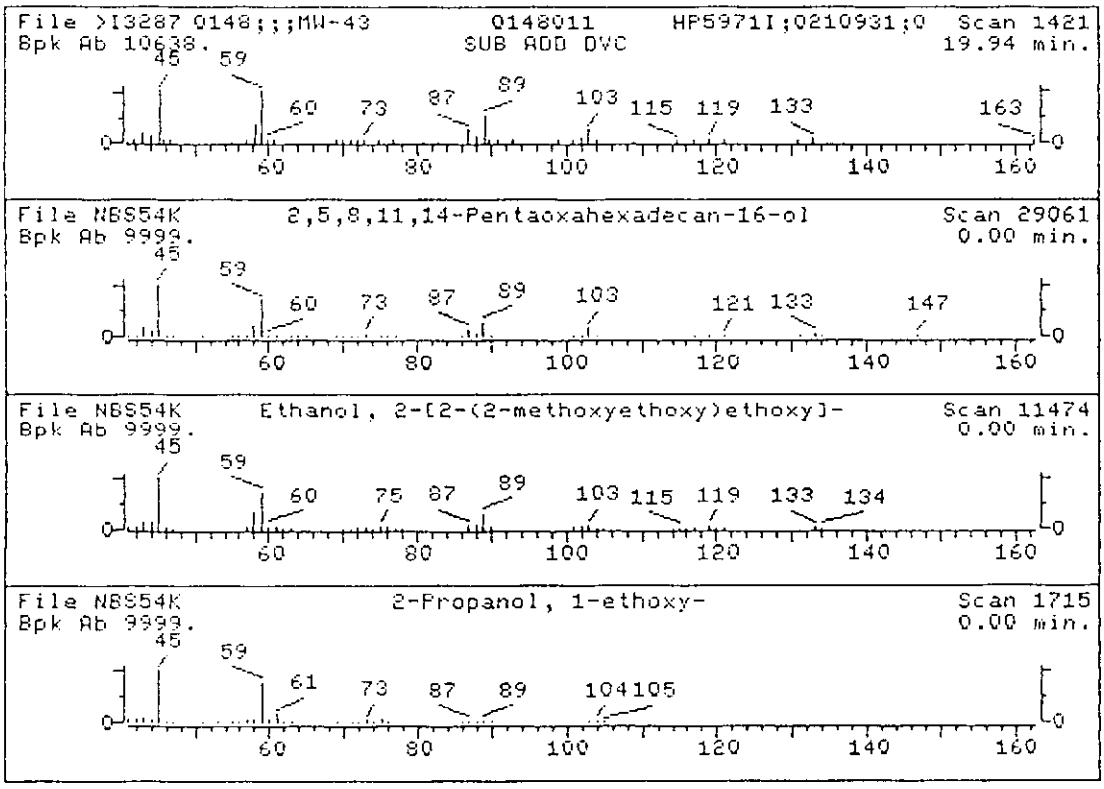


	2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6
.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
3.	2-Propanol, 1-ethoxy-	104	C5H12O2
4.	Silane, ethyldimethyl-	88	C4H12Si
5.	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3

Sample file: >I3287 Spectrum #: 1421
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	23778521	8670	NBS54K	65	64	2	0	100	12	30	14
2.	51	112356	8547	NBS54K	62	37	1	0	100	21	22	23
3.	31*	1569024	1853	NBS54K	39	55	1	0	100	41	12	22
4.	25*	758214	1807	NBS54K	45	53	2	0	88	50	7	19
5.	20	111966	1938	NBS54K	27	63	0	0	79	51	5	14

Peak#: 17 Area: 140078. Est Conc: 13. Date: 02/16/93 18:15 Inst: I

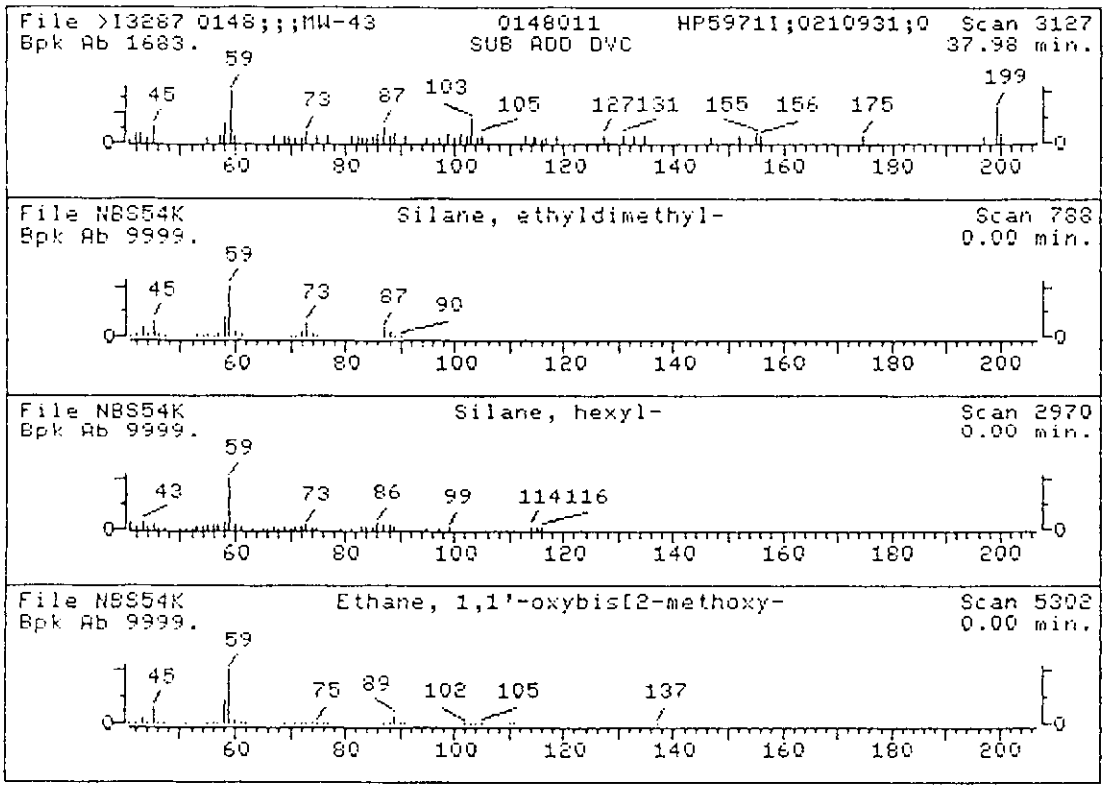


	Silane, ethyldimethyl-	88	C4H12Si
2.	Silane, hexyl-	116	C6H16Si
3.	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3
4.	4-Hydroxy-3-hexanone	116	C6H12O2
5.	Hydrazine, 1-butyl-1-methyl-	102	C5H14N2

Sample file: >I3287 Spectrum #: 3127
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	18*	758214	1807	NBS54K	51	47	2	0	67	58	4	26
2.	15*	1072146	1878	NBS54K	25	66	1	0	100	58	3	14
3.	11	111966	1938	NBS54K	37	53	1	0	83	65	2	13
4.	11*	4984854	1869	NBS54K	31	57	2	0	100	64	2	15
5.	11*	20240624	1839	NBS54K	29	62	2	0	73	65	2	14

Peak#: 51 Area: 129673. Est Conc: 11. Date: 02/16/93 18:15 Inst: I

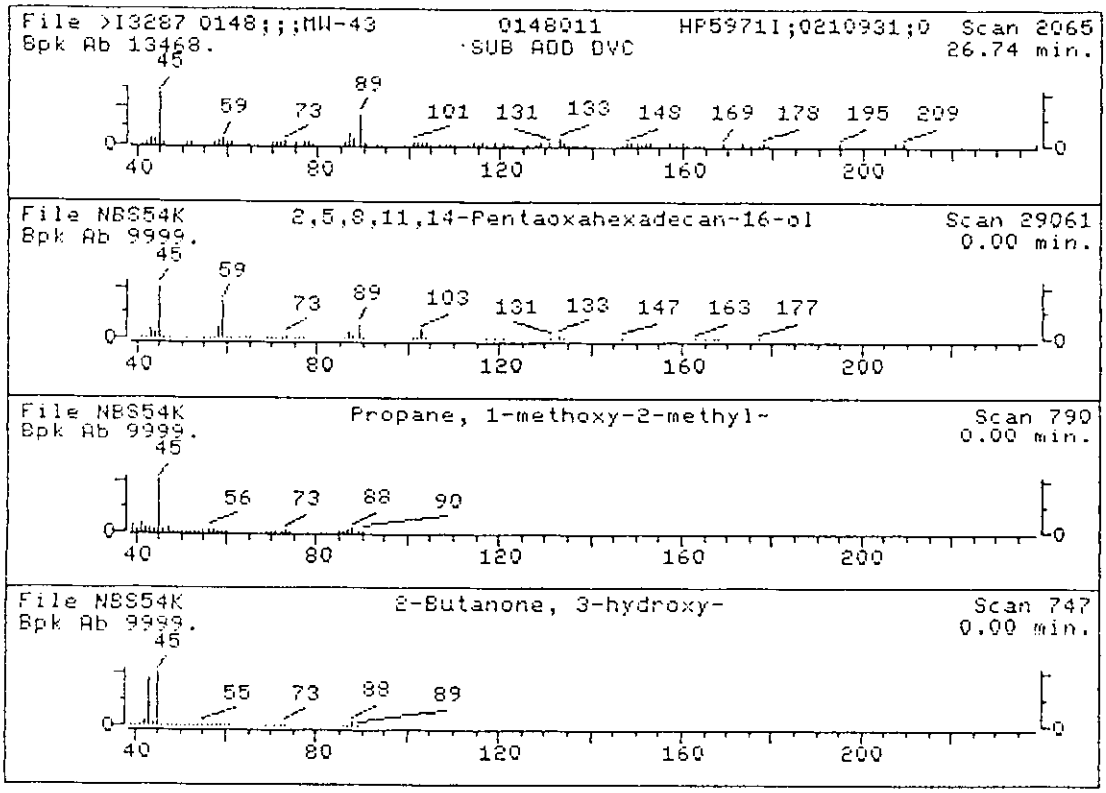


2.	Propane, 1-methoxy-2-methyl-	88	C5H12O
.	2-Butanone, 3-hydroxy-	88	C4H8O2
.	Acetic acid, hydrazino-, ethyl ester, monohydrochlor ide	154	C4H11ClN2O2
5.	Propanoic acid, 2-hydroxy-, methyl ester, (.+-.)- (9 CI)	104	C4H8O3

Sample file: >I3287 Spectrum #: 2065
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	43	23778521	8670	NBS54K	64	65	2	0	100	21	17	14
2.	25*	625445	348	NBS54K	23	59	2	0	100	47	7	13
3.	25*	513860	346	NBS54K	24	61	2	0	100	47	7	14
4.	20	6945922	371	NBS54K	38	51	1	0	72	53	5	14
5.	20*	2155308	153	NBS54K	27	51	2	0	100	52	5	14

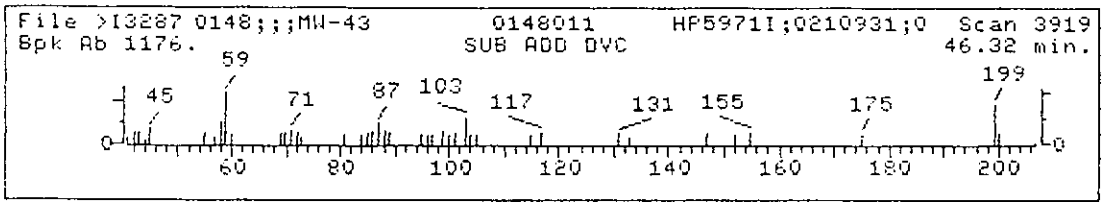
Peak#: 32 Area: 128939. Est Conc: 11. Date: 02/16/93 18:15 Inst: I



Sample file: >I3287 Spectrum #: 3919

No data base entries were retrieved.

Peak#: 57 Area: 105441. Est Conc: 9. Date: 02/16/93 18:15 Inst: I

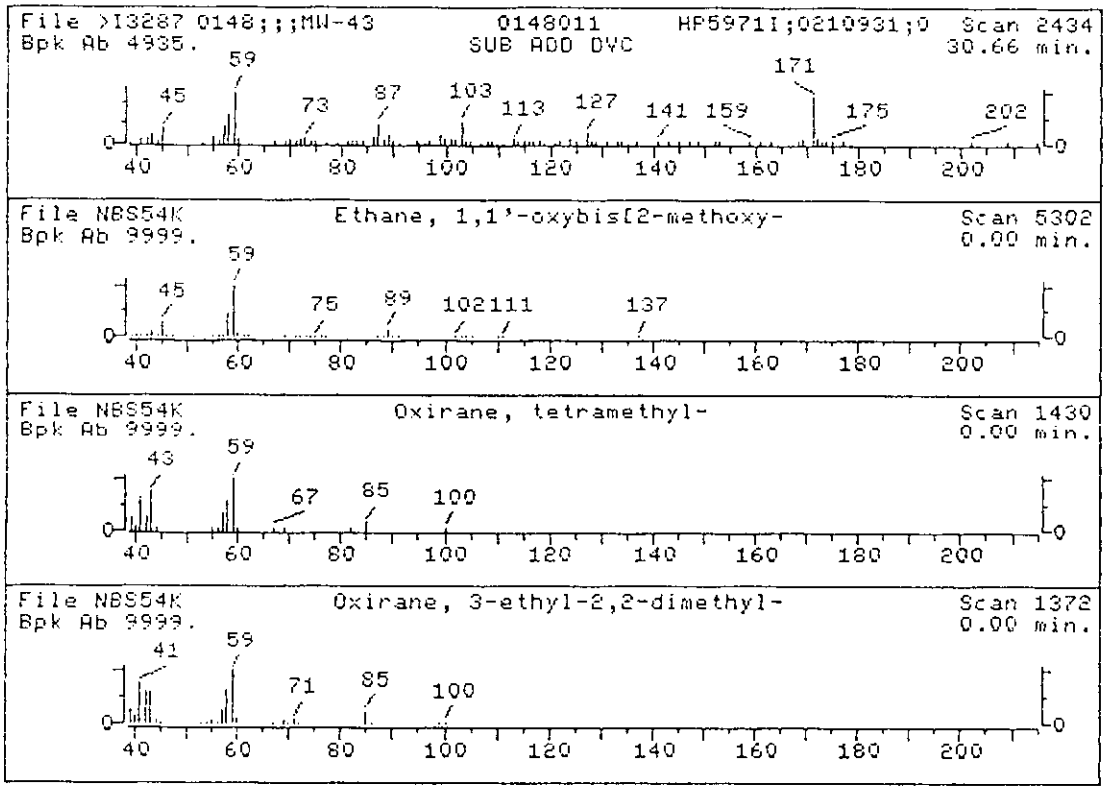


.	Ethane, 1,1'-oxybis[2-methoxy-	134 C6H1403
2.	Oxirane, tetramethyl-	100 C6H120
3.	Oxirane, 3-ethyl-2,2-dimethyl-	100 C6H120
4.	2,5,8,11-Tetraoxadodecane	178 C8H1804

Sample file: >I3287 Spectrum #: 2434
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	15	111966	1938	NBS54K	43	47	1	0	98	59	3	15
2.	15*	5076200	1826	NBS54K	28	63	3	0	92	60	3	13
3.	15*	1192229	1823	NBS54K	29	73	2	0	83	60	3	14
4.	11	112492	2024	NBS54K	27	71	0	0	100	63	2	14

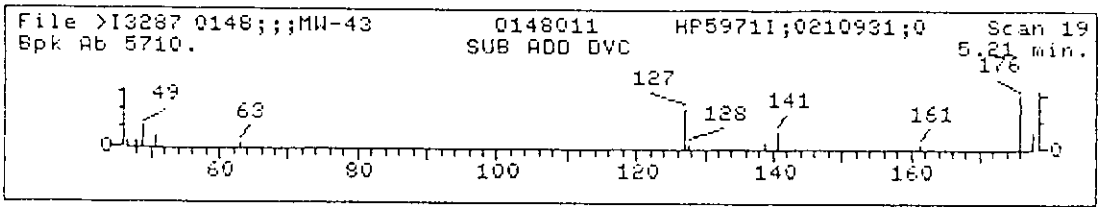
Peak#: 39 Area: 117283. Est Conc: 9. Date: 02/16/93 18:15 Inst: I



Sample file: >I3287 Spectrum #: 19

No data base entries were retrieved.

Peak#: 1 Area: 41495. Est Conc: 6. Date: 02/16/93 18:15 Inst: I

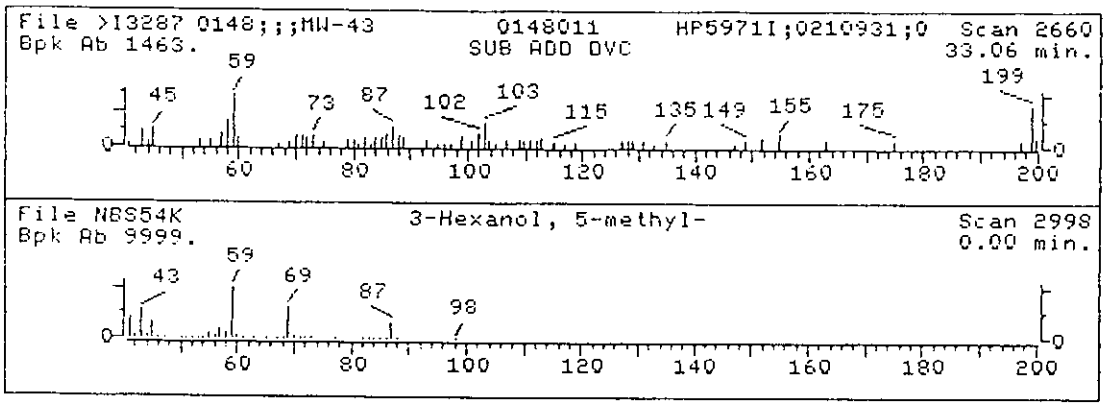


.. 3-Hexanol, 5-methyl- 116 C7H16O

Sample file: >I3287 Spectrum #: 2660
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	11	623552	1885	NBS54K	42	54	1	0	100	63	2	13

Peak#: 44 Area: 63069. Est Conc: 5. Date: 02/16/93 18:15 Inst: I

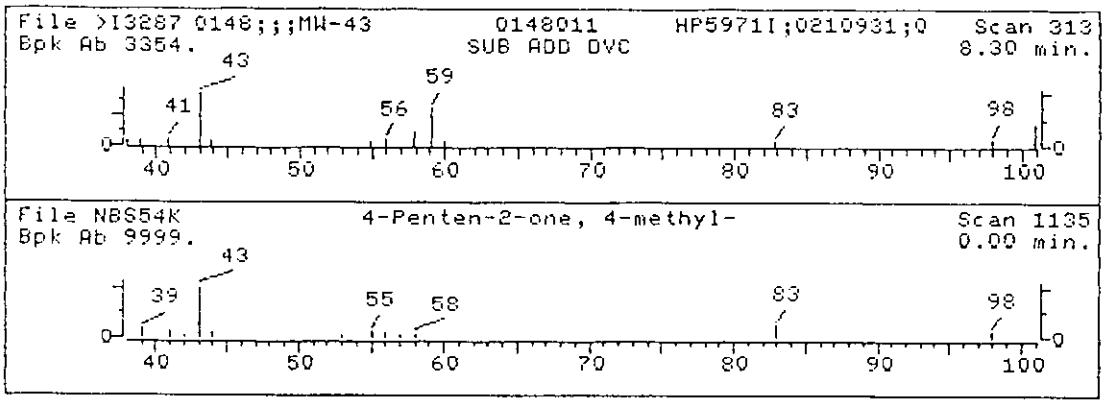


. 4-Penten-2-one, 4-methyl- 98 C6H10O

Sample file: >I3287 Spectrum #: 313
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	27*	3744023	9897	NBS54K	31	48	2	0	78	45	8	15

Peak#: 2 Area: 22975. Est Conc: 4. Date: 02/16/93 18:15 Inst: I

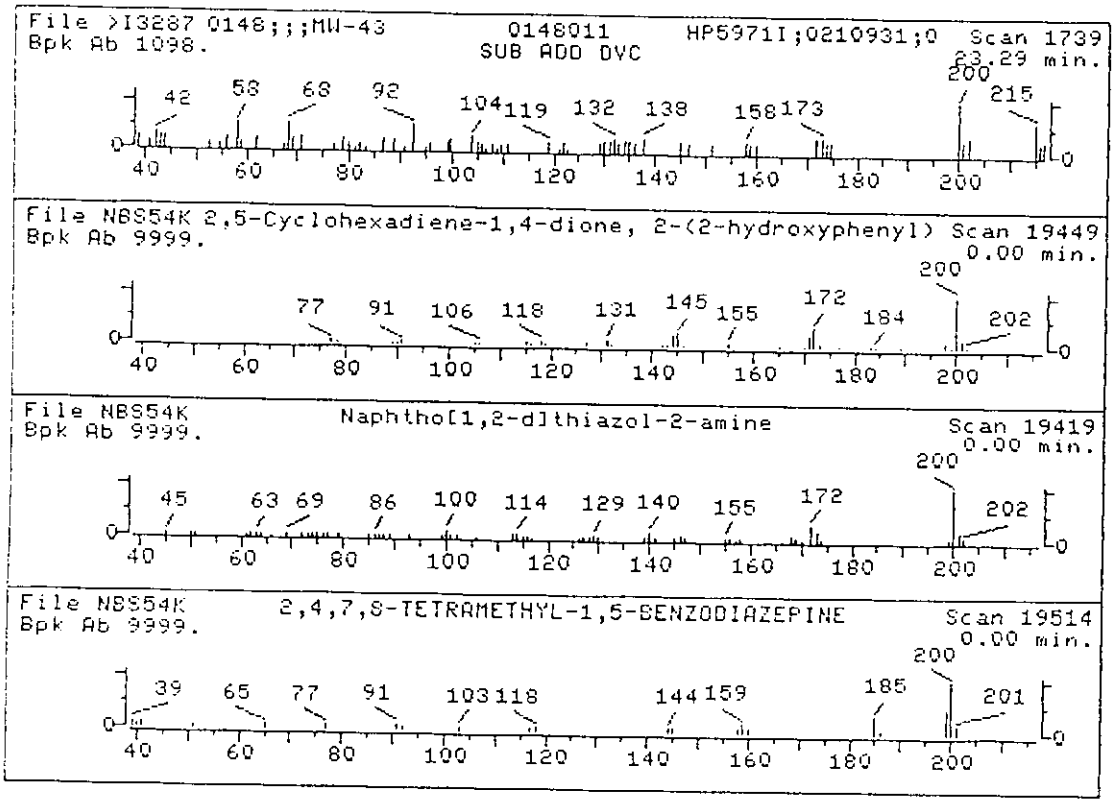


.	2,5-Cyclohexadiene-1,4-dione, 2-(2-hydroxyphenyl)-	200	C12H8O3
.	Naphtho[1,2-d]thiazol-2-amine	200	C11H8N2S
3.	2,4,7,8-TETRAMETHYL-1,5-BENZODIAZEPINE	200	C13H16N2
4.	Thiazole, 2,2'-thiobis-	200	C6H4N2S3
5.	DES-A-17-AZAESTRA-5(10),6,8-TRIENE-11,16-DIONE	215	C13H13NO2

Sample file: >I3287 Spectrum #: 1739
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	15*	25483663	29585	NBS54K	28	97	2	0	73	59	3	14
2.	15*	40172654	29575	NBS54K	26	96	0	0	97	58	3	18
3.	11*	19514	29613	NBS54K	35	89	2	0	100	64	2	14
4.	11*	69390096	29534	NBS54K	23	88	3	0	100	64	2	12
5.	11*	22483	29634	NBS54K	29	96	1	0	84	64	2	16

Peak#: 24 Area: 47552. Est Conc: 4. Date: 02/16/93 18:15 Inst: I



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-44

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

0423

Matrix: (soil/water) WATER Lab Sample ID: 0148012

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3288.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

Case 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10 ~~0.2~~	J ~~U~~
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10 ~~0.4~~	J ~~U~~
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

CMC 2/25/93

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0424 EPA SAMPLE NO.

MW-44

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148012

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3288.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

case 3/15/93

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.6	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	~~10~~ 0.3	J U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.5	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

CMC 2/25/93

0425
EPA SAMPLE NO.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-44

ab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148012

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3288.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 15
amc 2/25/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	32.17	36	J
2.			29.21	34	
3.			26.53	30	
4.			36.61	23	
5.			23.48	17	
6.			44.00	8	
7.			19.94	7	
8.			32.55	6	
9.			29.42	6	
10.		UNKNOWN BENZENEDIOL ISOMER KKM 2/26/93	16.90	6	
11.		ALDOL CONDENSATION PRODUCT	8.31	4	JAB
12.		UNKNOWN	8.71	4	JB
13.			26.70	4	J
14.		UNKNOWN ACID	20.66	3	
15.		UNKNOWN	14.90	2	
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

amc 3/15/93

QUANT REPORT Page 1

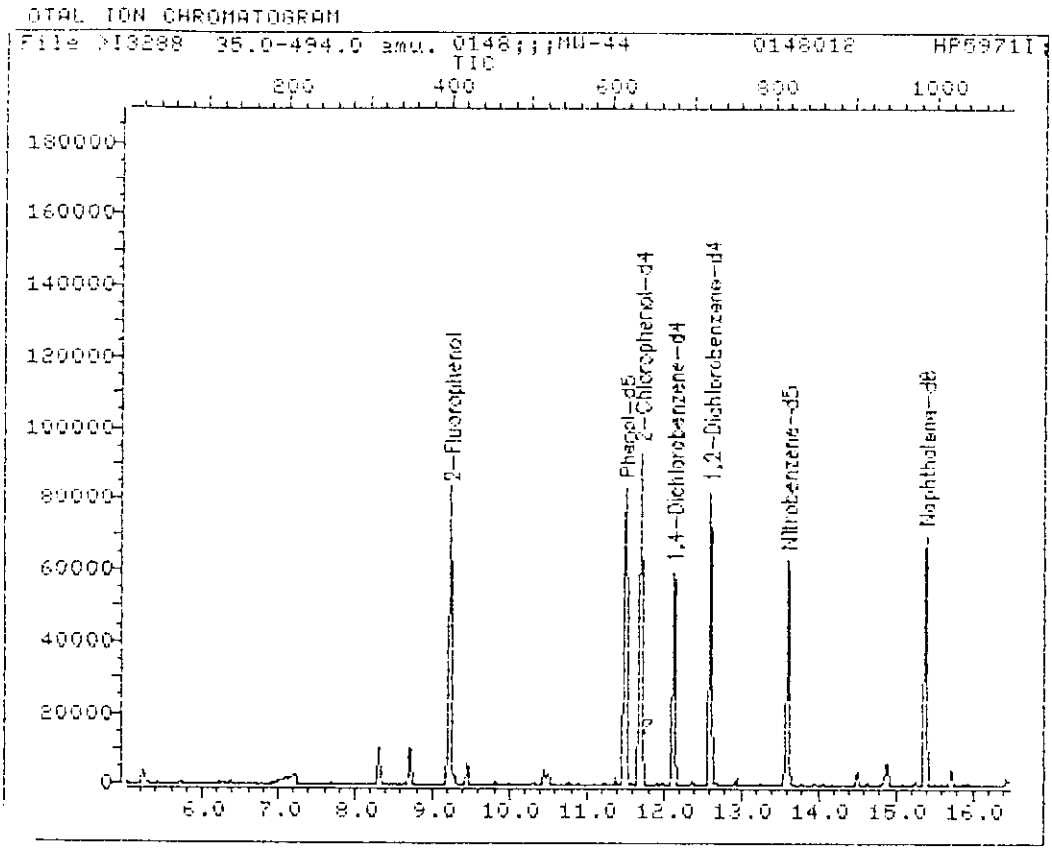
Operator ID: USER1 Quant Rev: 7 Quant Time: 930223 14:40
Output File: ^I3288::A6 Injected at: 930216 19:17
Data File: >I3288::A4 Dilution Factor: .51000
Name: 0148;;;MW-44 Instrument ID: **MSD
Misc: 0148012 HP5971I;0210931;021193;LLW;1;;;I0

IO File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.12	151.8	22562	40.00	ug	96
2)	2-Chlorophenol-d4	11.70	132.0	68085	48.55	ug	82
3)	2-Fluorophenol	9.23	111.8	68996	49.54	ug	72
4)	Phenol-d5	11.50	98.8	96364	49.61	ug	69
~~5)~~	~~Phenol~~	~~11.53~~	~~93.9~~	~~470^~~	~~.251~~	~~ug~~	~~64~~
~~6)~~	~~2-Chlorophenol~~	~~11.73~~	~~127.8~~	~~621^~~	~~.426~~	~~ug~~	~~26~~
10)	1,2-Dichlorobenzene-d4	12.61	152.0	31462	33.42	ug	95
17)	*Naphthalene-d8	15.39	135.9	83299	40.00	ug	98
)	Nitrobenzene-d5	13.60	81.8	52506	33.83	ug	72
)	*Acenaphthene-d10	20.05	163.9	48293	40.00	ug	99
39)	2-Fluorobiphenyl	18.28	171.8	90081	30.66	ug	97
51)	2,4,6-Tribromophenol	22.18	329.6	35185	51.97	ug	93
52)	*Phenanthrene-d10	23.94	187.9	90407	40.00	ug	98
61)	Di-n-butylphthalate	25.58	148.8	3410	.593	ug	78
63)	*Chrysene-d12	31.27	240.0	80035	40.00	ug	97
65)	Terphenyl-d14	28.18	244.0	61264	17.73	ug	98
~~66)~~	~~Butylbenzylphthalate~~	~~29.54~~	~~148.8~~	~~894~~	~~.309~~	~~ug~~	~~80~~
70)	bis(2-Ethylhexyl)phthalate	31.38	148.8	1761	.501	ug	75
71)	*Perylene-d12	38.15	264.0	83140	40.00	ug	95

* Compound is ISTD

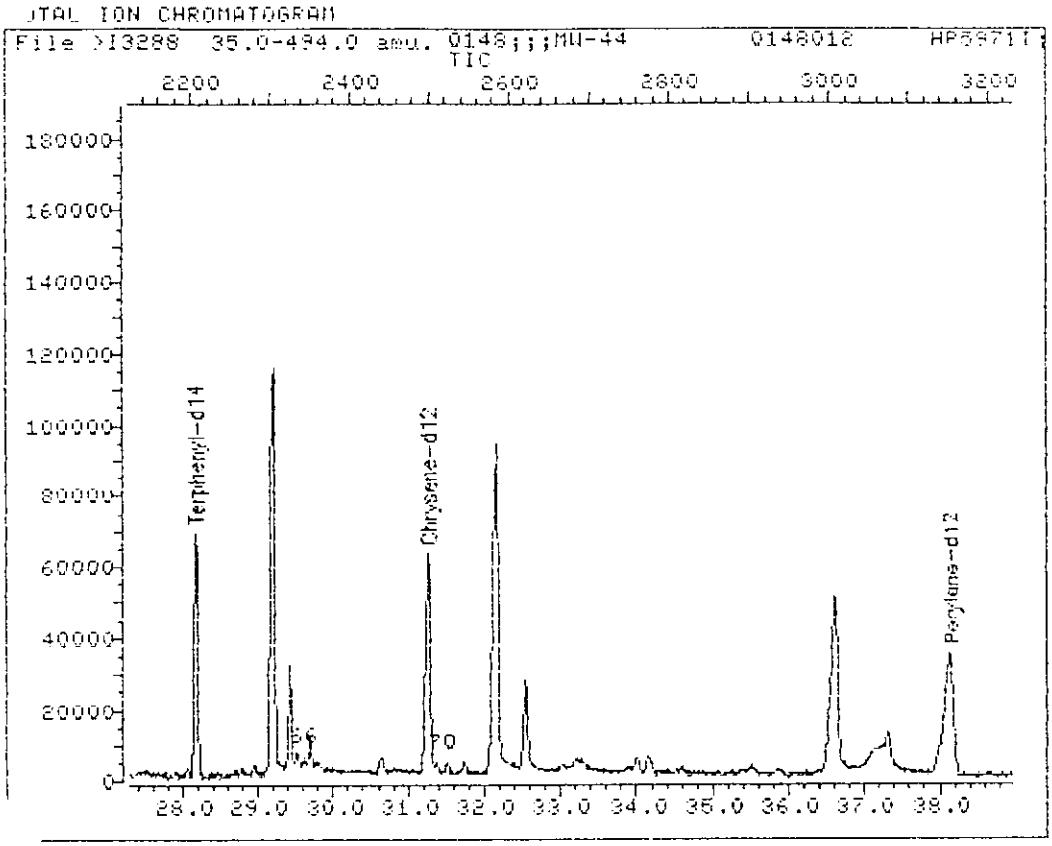
CMC 2/23/93



Data File: >I3288::A4 Quant Output File: ^I3288::A6
Name: 0148;;;MW-44 Instrument ID: **MSD
Misc: 0148012 HP5971I;0210931;021193;LLW;1;;;10

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

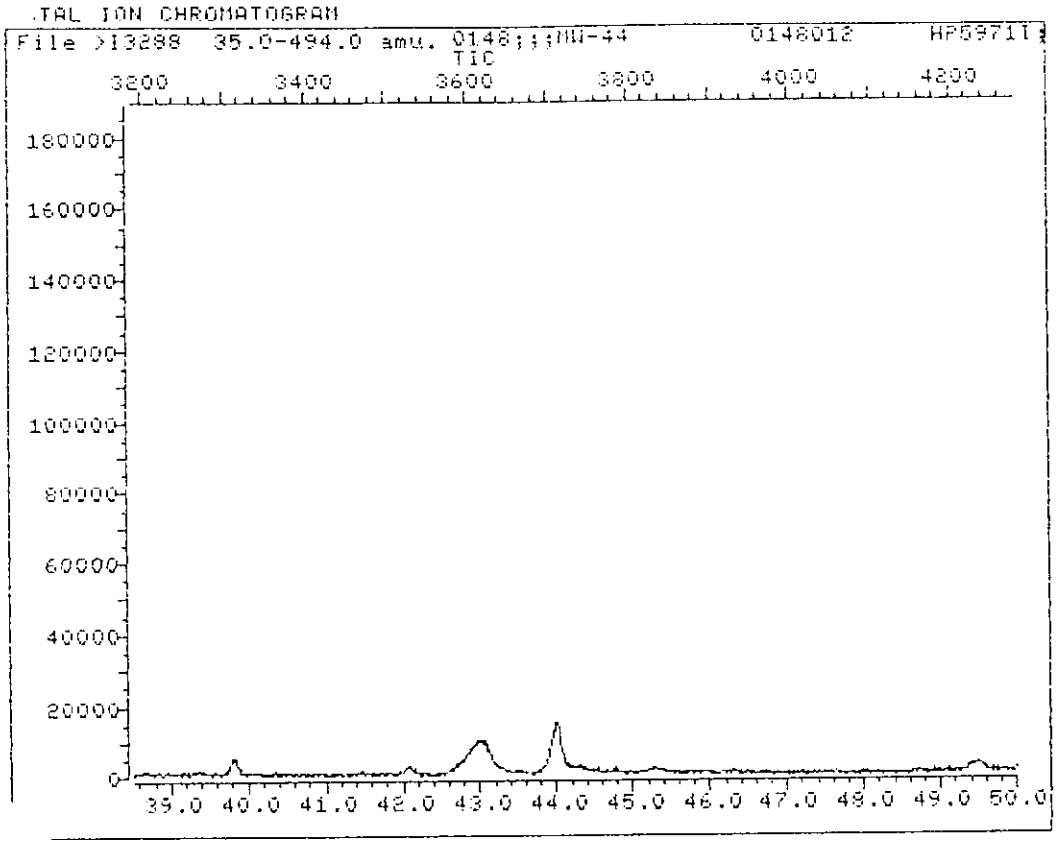
Operator ID: USER1
Quant Time : 930223 14:40
Injected at: 930216 19:17



Data File: >I3288::A4 Quant Output File: ^I3288::A6
Name: 0148;;;MW-44 Instrument ID: **MSD
Misc: 0148012 HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

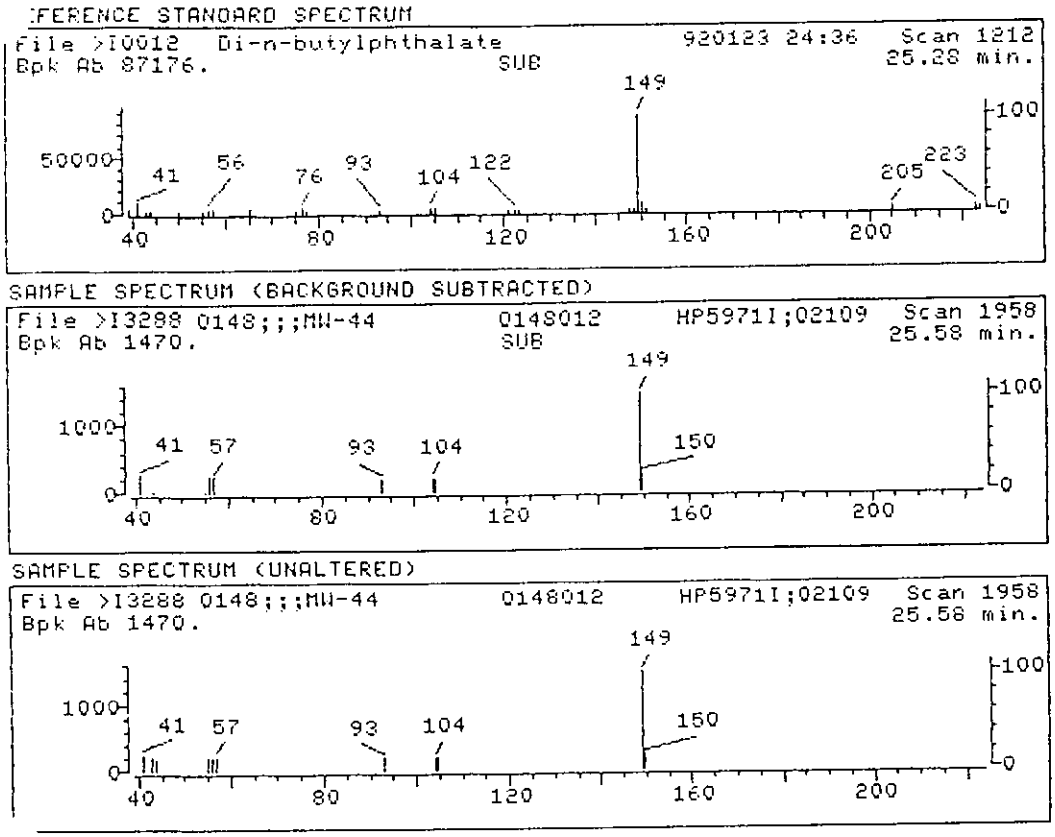
Operator ID: USER1
Quant Time : 930223 14:40
Injected at: 930216 19:17



Data File: >I3288::A4 Quant Output File: ^I3288::A6
Name: 0148;;;MW-44 Instrument ID: **MSD
Misc: 0148012 HP5971I;0210931;021193;LLW;1;;;I0

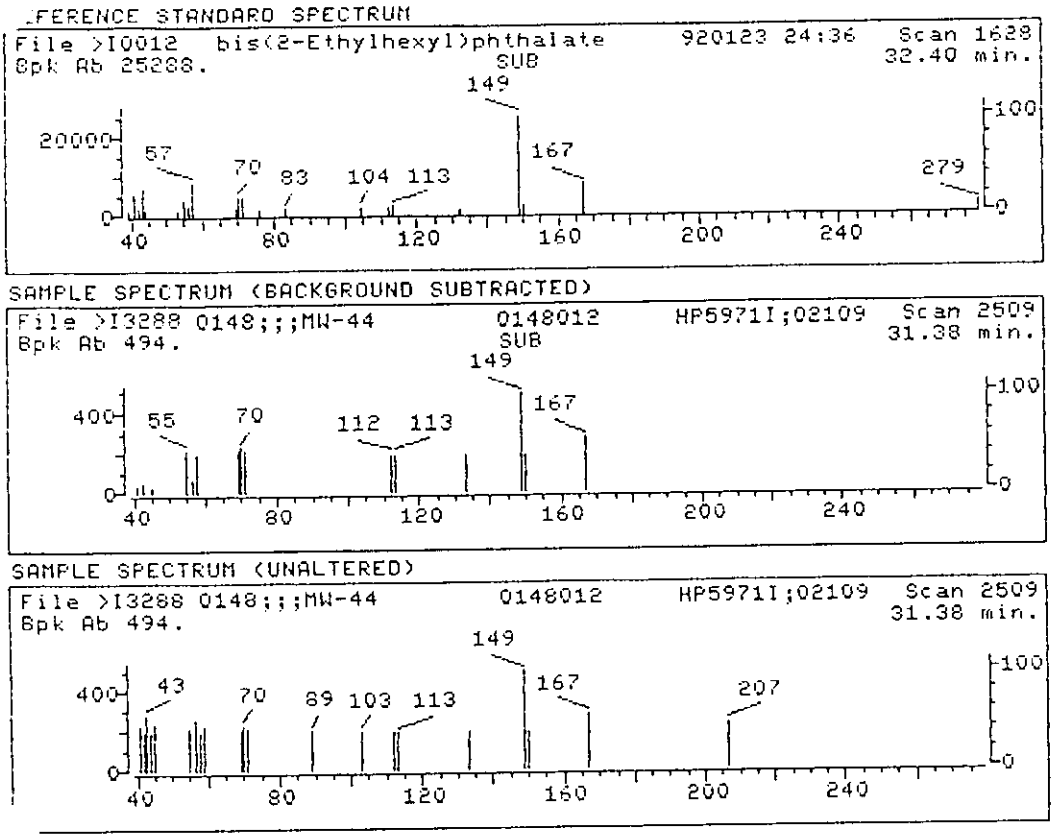
Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:40
Injected at: 930216 19:17



Data File: >I3288::A5 Quant Output File: ^I3288::A6
Name: 0148;;;MW-44 Instrument ID: **MSD
Misc: 0148012 HP5971I;0210931;021193;LLW;1;;;I0
Quant Time: 930216 20:12 Quant ID File: I_IFI::A5
Injected at: 930216 19:17 Last Calibration: 910116 11:52
Last Qcal Time: 930216 08:48

Compound No : 61
Compound Name : Di-n-butylphthalate
Scan Number : 1958
Retention Time: 25.58 min.
Quant Ion : 148.8
Area : 3410
Concentration : .593 ug
q-value : 78



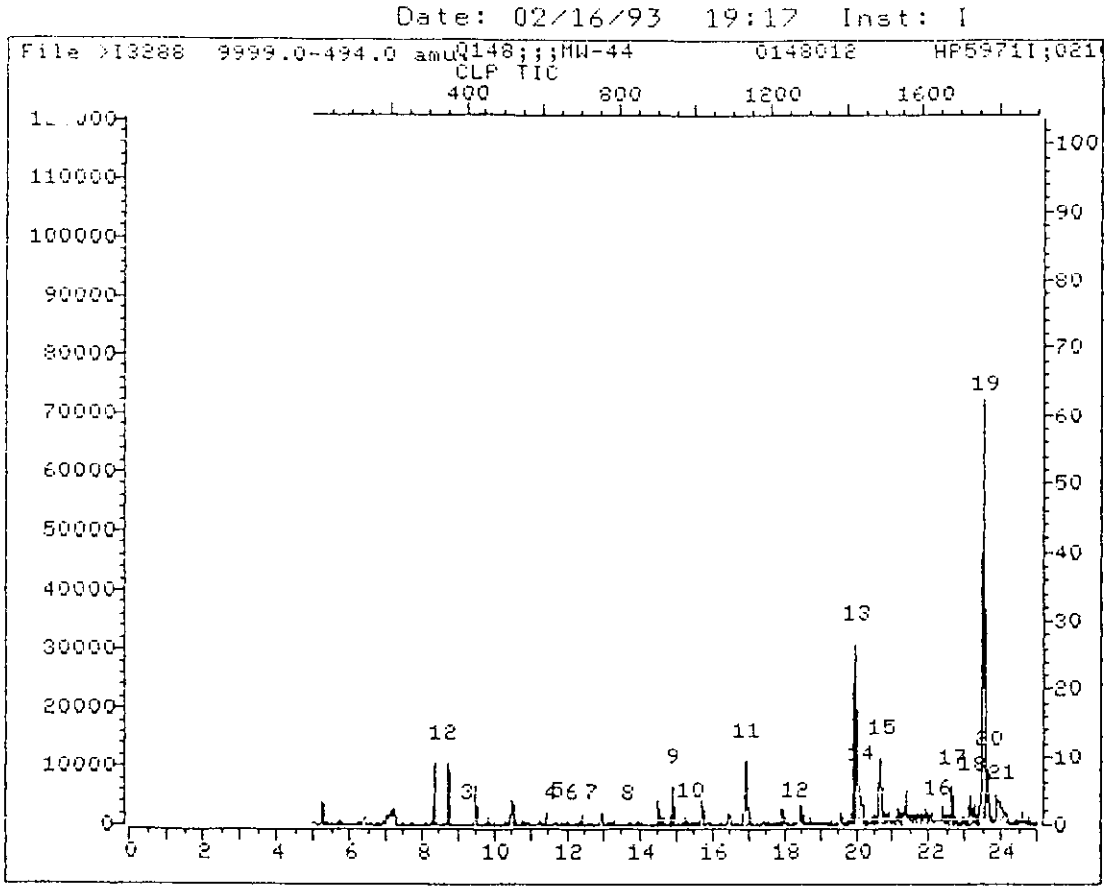
Data File: >I3288::A5 Quant Output File: ^I3288::A6
Name: 0148;;;MW-44 Instrument ID: **MSD
Misc: 0148012 HP5971I;0210931;021193;LLW;1;;;I0
Quant Time: 930216 20:12 Quant ID File: I_IFI::A5
Injected at: 930216 19:17 Last Calibration: 910116 11:52
Last Qcal Time: 930216 08:48

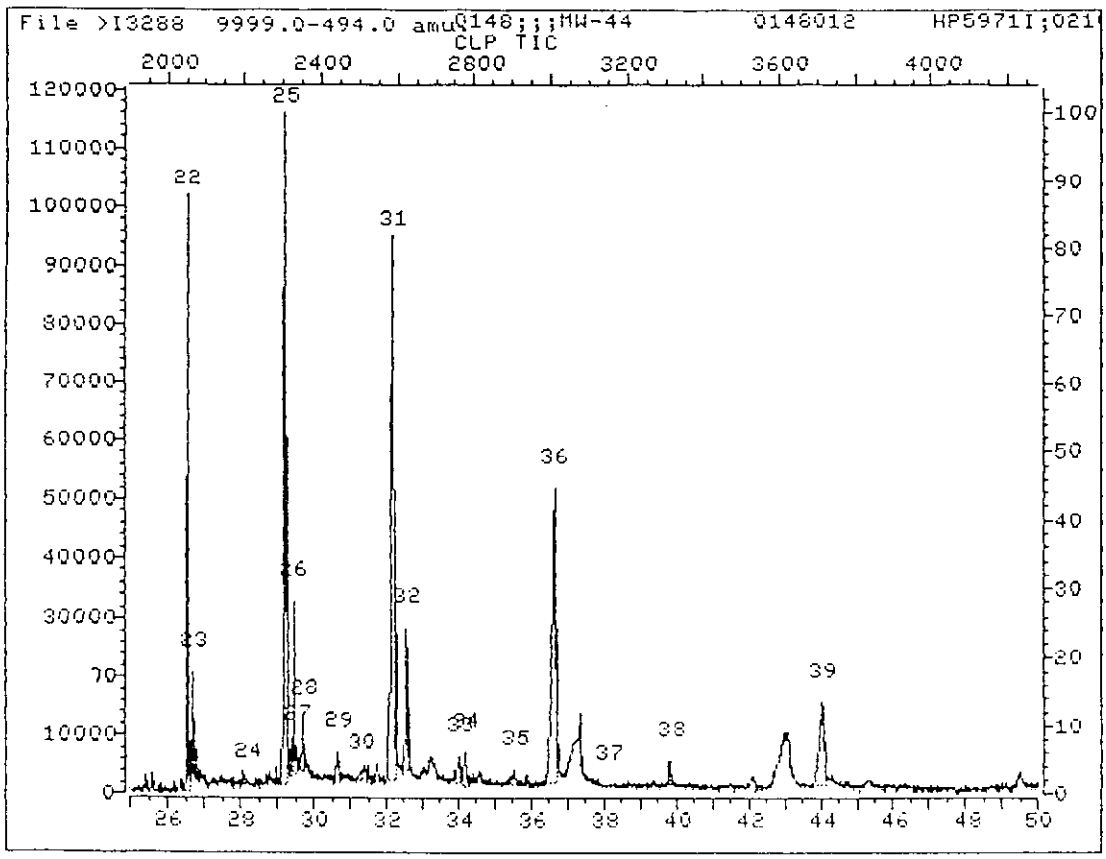
Compound No : 70
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 2509
Retention Time: 31.38 min.
Quant Ion : 148.8
Area : 1761
Concentration : .483 ug
q-value : 75

data file header from : >I3288::A5

Sample: 0148;;;MW-44 Operator: USER1 2/16/93 19:17
Misc : 0148012 HP5971I;0210931;021193;LLW;1;;;I0
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 9 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0


Date: 02/16/93 19:17 Inst: I
File >I3288 9999.0-494.0 amuQ148;;;MW-44 0148012 HP5971I;021
CLP TIC


File >I3288 9999.0-494.0 amuQ148;;;MW-44 0148012 HP5971I;021
CLP TIC

MW-44
HP5971I
0435

Date: 02/16/93 19:17 Inst: I

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
31.	32.17	473984.	36.	5.	.51
25.	29.21	451983.	34.	5.	.51
22.	26.53	346449.	30.	4.	.51
36.	36.61	325424.	23.	6.	.51
19.	23.48	192704.	17.	4.	.51
39.	44.00	122579.	8.	6.	.51
13.	19.94	68997.	7.	3.	.51
32.	32.55	86519.	6.	5.	.51
26.	29.42	79995.	6.	5.	.51
11.	16.90	52062.	6.	2.	.51
1.	8.31	22994.	4.	1.	.51
2.	8.71	23902.	4.	1.	.51
23.	26.70	43447.	4.	4.	.51
15.	20.66	31180.	3.	3.	.51
9.	14.90	19467.	2.	2.	.51

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.12	122858.	0.00	13.76	5.4
NAPHTHALENE-D8	15.39	165539.	13.76	17.72	2.0
ACENAPHTHENE-D10	20.05	209014.	17.72	22.00	4.3
PHENANTHRENE-D10	23.94	234316.	22.00	27.60	2.6
CHRYSENE-D12	31.26	271636.	27.60	34.70	3.4
PERYLENE-D12	38.14	294341.	34.70	44.00	3.5

ISTD peaks found: 6
Surrogate peaks found: 8
Quant target peaks expected: 3
Target peaks matched: 1
Total TIC identified: 15

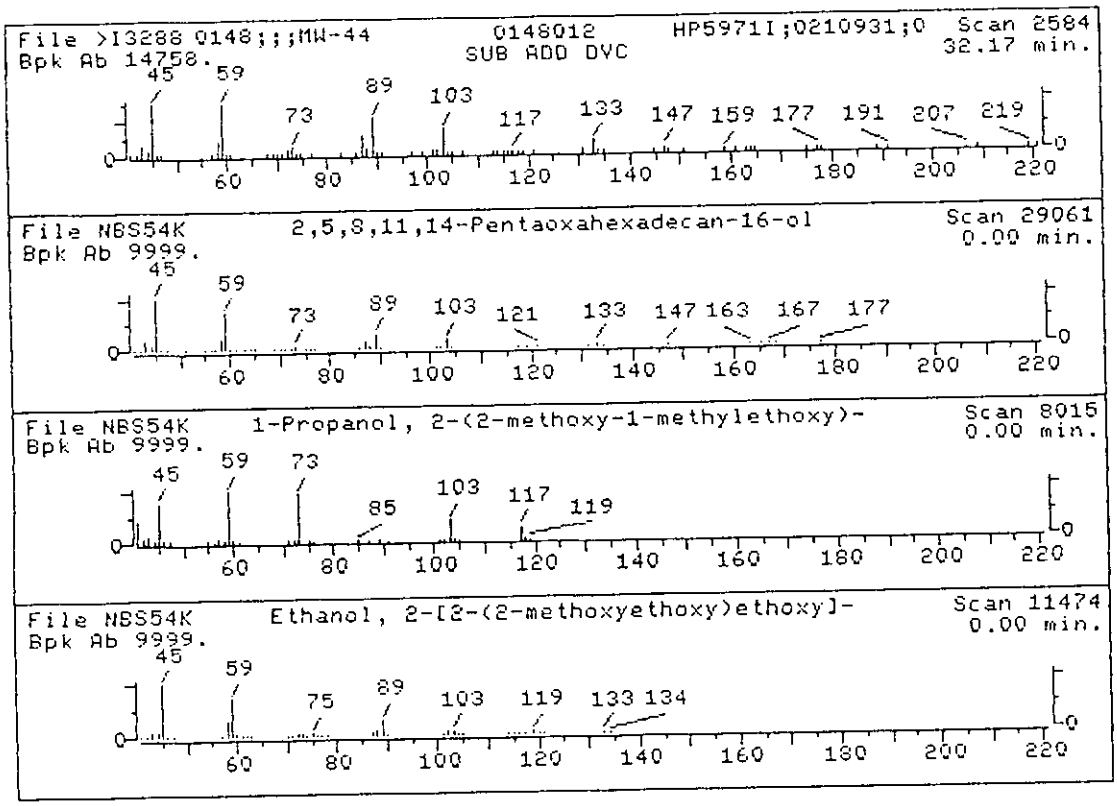
TICS : 1:50 PM MON., 22 FEB., 1993

. 2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6
.. 1-Propanol, 2-(2-methoxy-1-methylethoxy)-	148	C7H16O3
3. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
4. 2-Propanol, 1-ethoxy-	104	C5H12O2
5. Propanoic acid, 3-methoxy-, methyl ester	118	C5H10O3

Sample file: >I3288 Spectrum #: 2584
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36	23778521	8670	NBS54K	49	80	0	0	100	32	12	19
2.	26	55956213	1970	NBS54K	55	48	2	0	99	40	10	12
3.	25	112356	8547	NBS54K	33	66	0	0	86	48	7	15
4.	20*	1569024	1853	NBS54K	28	66	2	0	100	51	5	14
5.	20*	3852093	8054	NBS54K	22	80	3	0	100	52	5	12

Peak#: 31 Area: 473984. Est Conc: 36. Date: 02/16/93 19:17 Inst: I

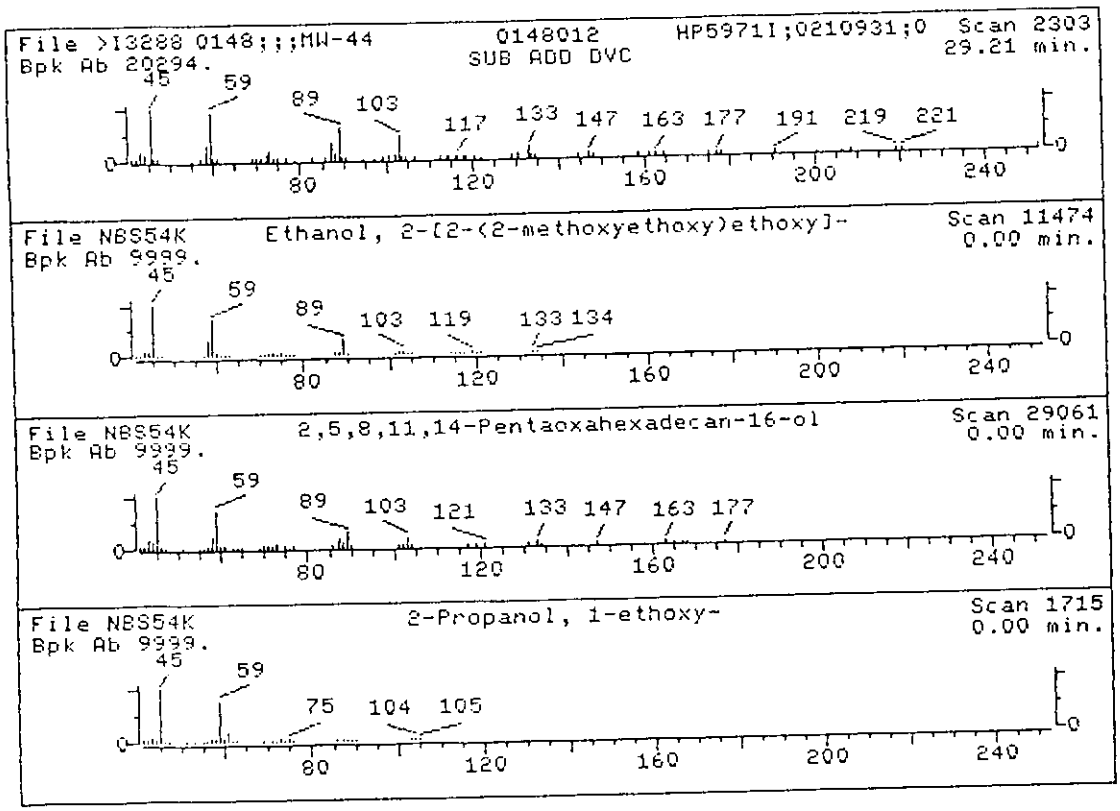


.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H16O4
-.	2,5,8,11,14-Pentaoxahexadecan-16-ol	252 C11H24O6
3.	2-Propanol, 1-ethoxy-	104 C5H12O2
4.	15-Crown-5	220 C10H20O5
5.	2-Butanol, 3,3'-oxybis-	162 C8H18O3

Sample file: >I3288 Spectrum #: 2303
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	50	112356	8547	NBS54K	49	50	0	0	89	27	19	28
2.	42	23778521	8670	NBS54K	49	80	0	0	100	26	14	19
3.	26*	1569024	1853	NBS54K	24	70	2	0	100	45	8	14
4.	25	33100275	8641	NBS54K	64	67	2	0	66	50	7	14
5.	24	54305612	2000	NBS54K	42	43	0	0	92	53	7	23

Peak#: 25 Area: 451983. Est Conc: 34. Date: 02/16/93 19:17 Inst: I

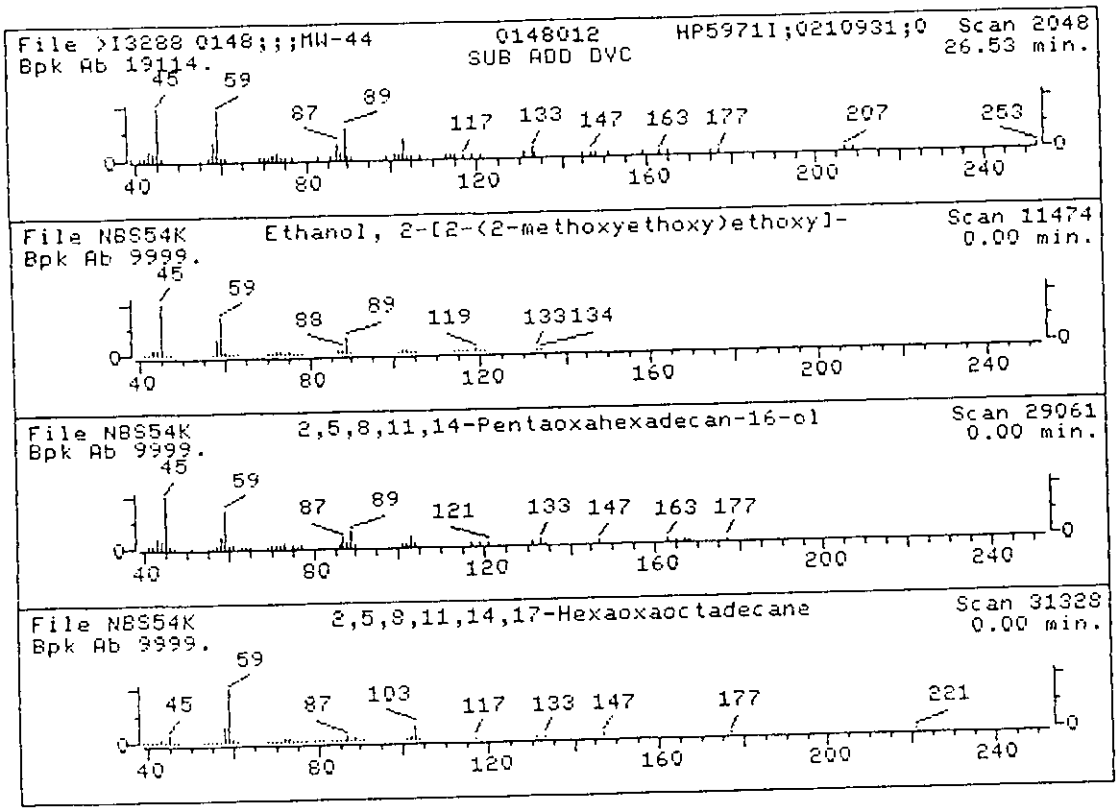


Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-		164 C7H16O4
. 2,5,8,11,14-Pentaoxahexadecan-16-ol		252 C11H24O6
3. 2,5,8,11,14,17-Hexaoxaoctadecane		266 C12H26O6
4. 2-Propanol, 1-ethoxy-		104 C5H12O2
5. Propane, 1,2,3-trimethoxy-		134 C6H14O3

Sample file: >I3288 Spectrum #: 2048
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	50	112356	8547	NBS54K	50	49	0	0	100	27	19	28
2.	48	23778521	8670	NBS54K	49	80	0	0	100	24	17	19
3.	30	1191873	2071	NBS54K	47	69	0	0	95	45	8	18
4.	30*	1569024	1853	NBS54K	34	60	1	0	84	45	8	18
5.	26	20637494	8497	NBS54K	61	51	2	0	66	36	10	12

Peak#: 22 Area: 346449. Est Conc: 30. Date: 02/16/93 19:17 Inst: I

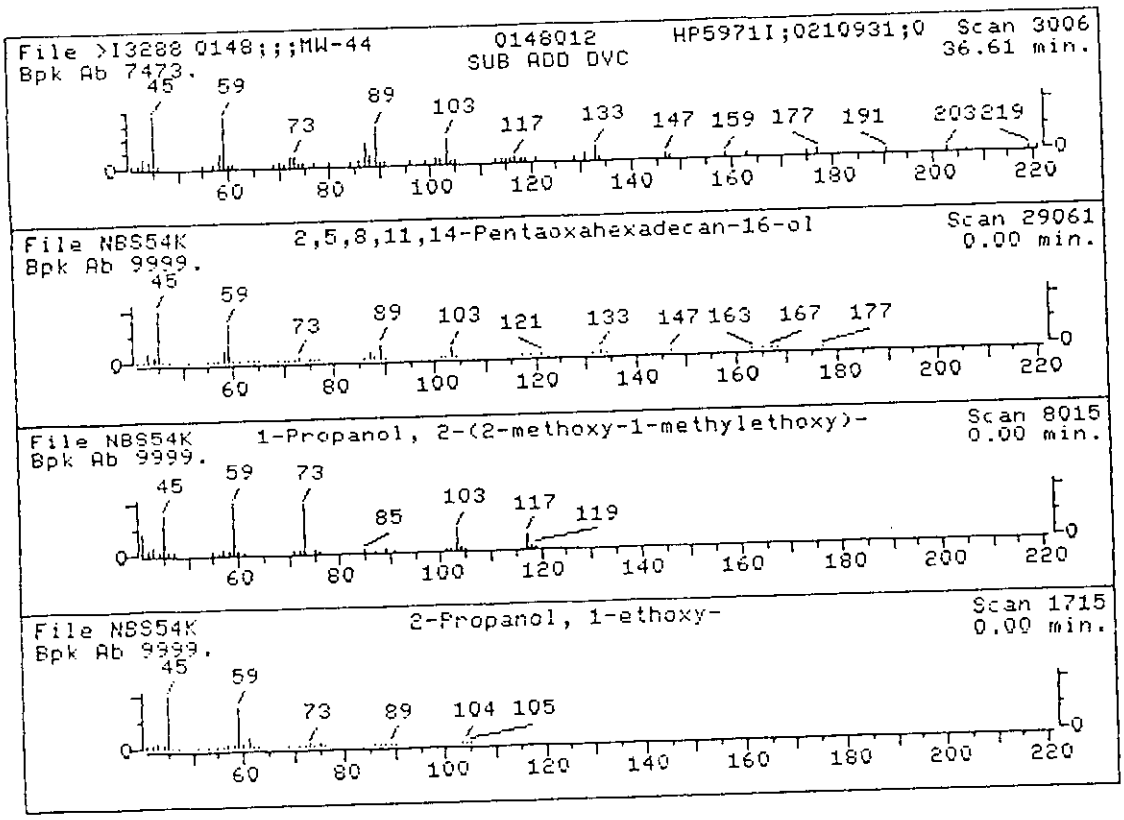


. 2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6
2. 1-Propanol, 2-(2-methoxy-1-methylethoxy)-	148	C7H16O3
3. 2-Propanol, 1-ethoxy-	104	C5H12O2
4. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
5. Propanoic acid, 3-methoxy-, methyl ester	118	C5H10O3

Sample file: >I3288 Spectrum #: 3006
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	32	23778521	8670	NBS54K	38	91	0	0	100	31	12	15
2.	26	55956213	1970	NBS54K	55	48	2	0	95	39	10	12
3.	25*	1569024	1853	NBS54K	34	60	1	0	99	50	7	18
4.	25	112356	8547	NBS54K	33	66	0	0	81	47	7	15
5.	20*	3852093	8054	NBS54K	22	80	3	0	100	51	5	12

Peak#: 36 Area: 325424. Est Conc: 23. Date: 02/16/93 19:17 Inst: I

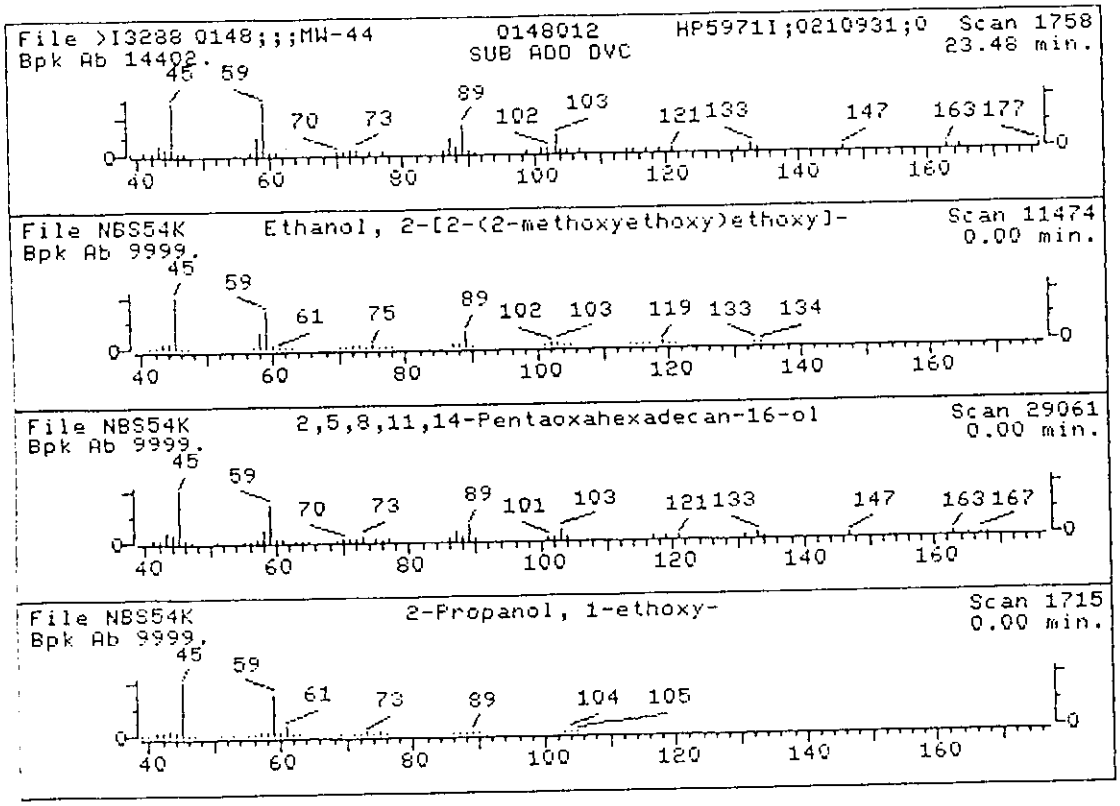


1. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
2. 2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6
3. 2-Propanol, 1-ethoxy-	104	C5H12O2
4. Propane, 1,2,3-trimethoxy-	134	C6H14O3
5. Silane, ethyldimethyl-	88	C4H12Si

Sample file: >I3288 Spectrum #: 1758
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59	112356	8547	NBS54K	62	37	0	0	100	23	27	38
2.	36	23778521	8670	NBS54K	71	58	1	0	111	42	12	27
3.	30*	1569024	1853	NBS54K	34	60	1	0	89	41	8	18
4.	29	20637494	8497	NBS54K	61	51	2	0	70	32	12	12
5.	25*	758214	1807	NBS54K	34	64	2	0	84	50	7	14

Peak#: 19 Area: 192704. Est Conc: 17. Date: 02/16/93 19:17 Inst: I

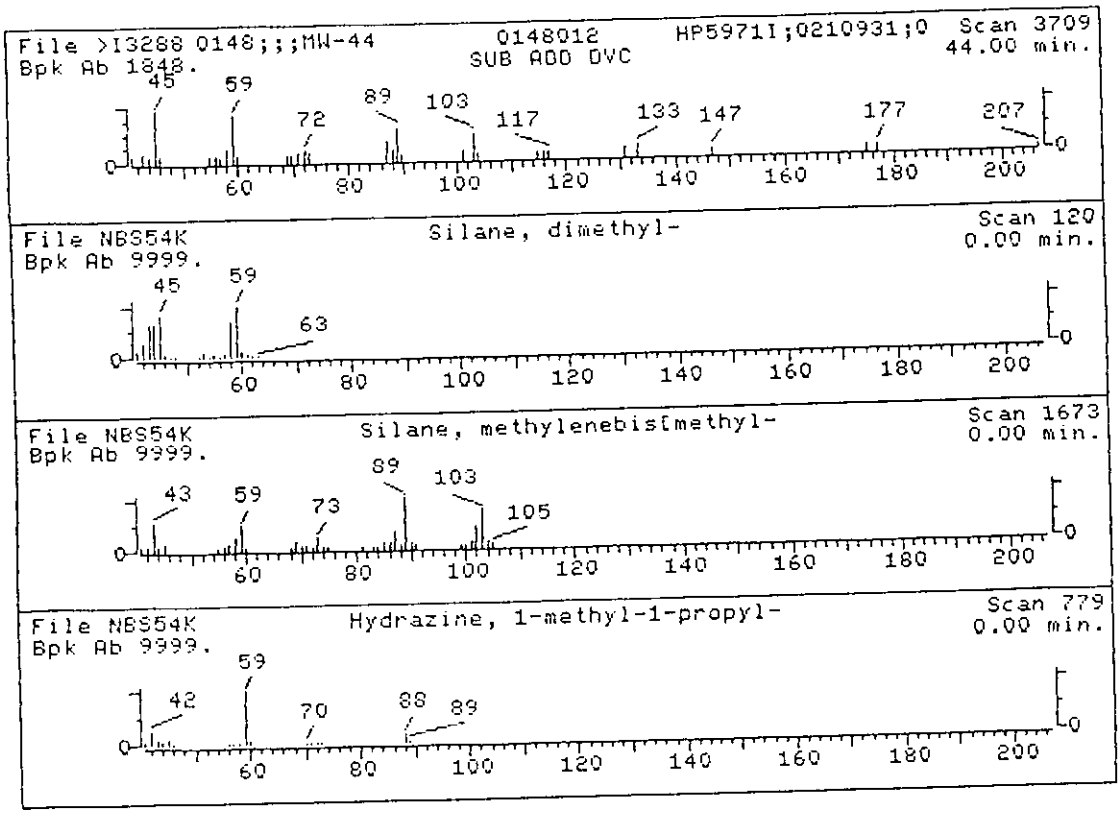


_. Silane, dimethyl-	60	C2H8Si
2. Silane, methylenebis[methyl-	104	C3H12Si2
3. Hydrazine, 1-methyl-1-propyl-	88	C4H12N2
4. Hydrazine, (1-methylpropyl)-	88	C4H12N2

Sample file: >I3288 Spectrum #: 3709
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	1111746	1791	NBS54K	37	72	3	0	91	48	7	13
2.	12*	5654057	8465	NBS54K	57	70	3	0	63	62	2	22
3.	11*	4986496	1806	NBS54K	25	60	1	0	91	65	2	14
4.	11*	30924142	8034	NBS54K	27	75	1	0	91	61	2	15

Peak#: 39 Area: 122579. Est Conc: 8. Date: 02/16/93 19:17 Inst: I

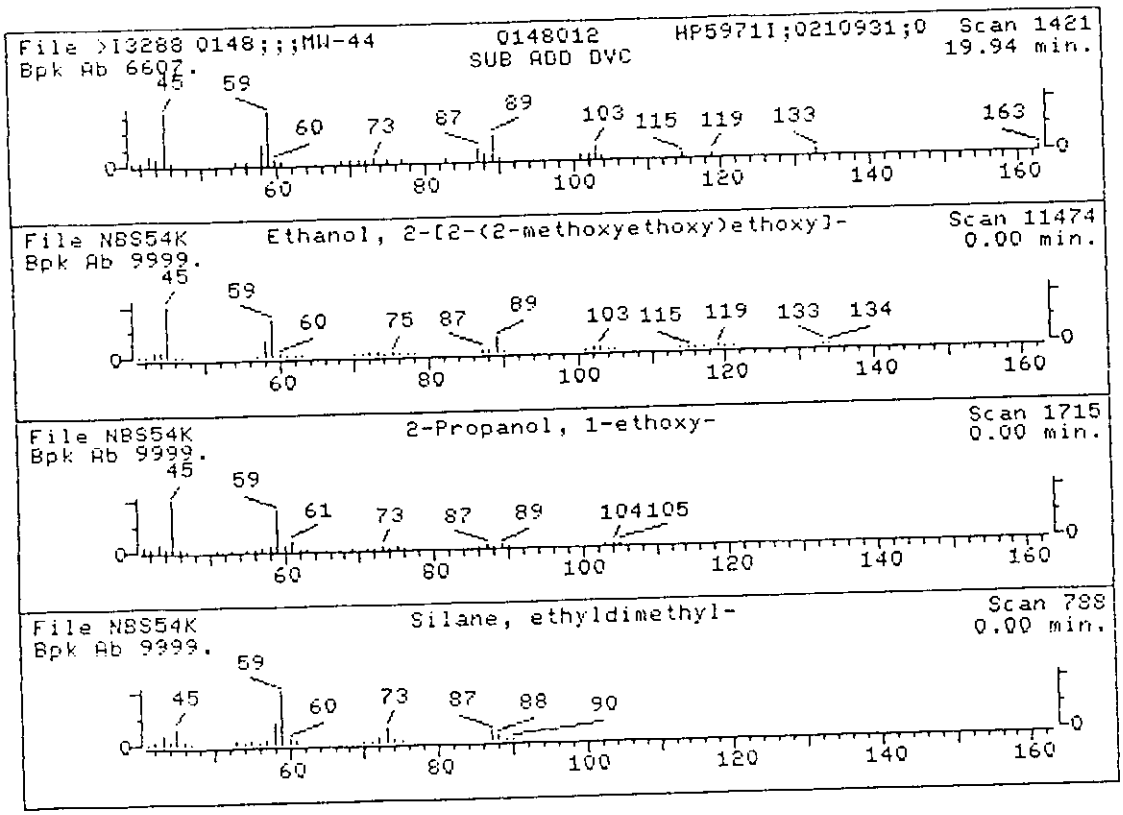


1.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H16O4
2.	2-Propanol, 1-ethoxy-	104 C5H12O2
3.	Silane, ethyldimethyl-	88 C4H12Si
4.	Ethane, 1,1'-oxybis[2-methoxy-	134 C6H14O3
5.	2-Butanol, 1-methoxy-	104 C5H12O2

Sample file: >I3288 Spectrum #: 1421
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58	112356	8547	NBS54K	62	37	1	0	100	18	25	23
2.	31*	1569024	1853	NBS54K	39	55	1	0	100	43	12	22
3.	29*	758214	1807	NBS54K	42	56	2	0	98	41	8	17
4.	25	111966	1938	NBS54K	27	63	0	0	88	48	7	14
5.	20*	53778737	1854	NBS54K	32	64	2	0	98	52	5	14

Peak#: 13 Area: 68997. Est Conc: 7. Date: 02/16/93 19:17 Inst: I

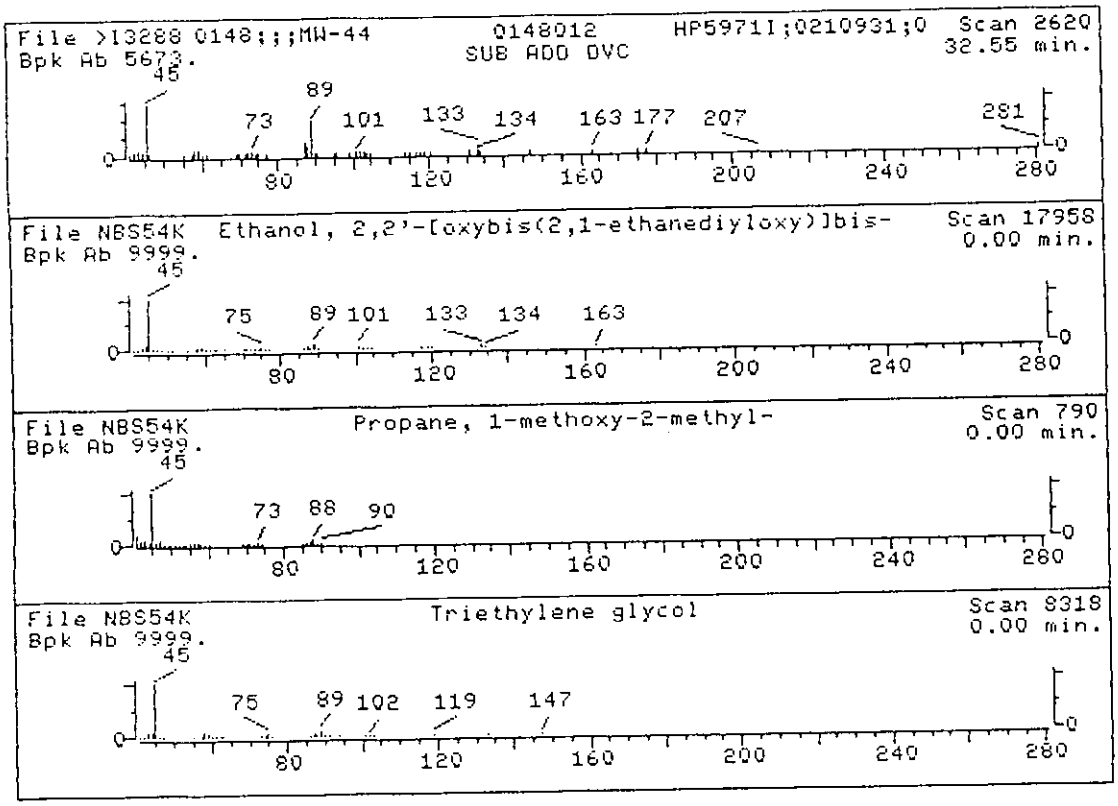


.	Ethanol, 2,2'-[oxybis(2,1-ethanediyloxy)]bis-	194 C8H18O5
..	Propane, 1-methoxy-2-methyl-	88 C5H12O
3.	Triethylene glycol	150 C6H14O4
4.	2-Butanone, 3-hydroxy-	88 C4H8O2
5.	Acetaldehyde, methoxy-	74 C3H6O2

Sample file: >13288 Spectrum #: 2620
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26	112607	8603	NBS54K	27	66	0	0	100	43	8	14
2.	25*	625445	348	NBS54K	30	52	1	0	76	50	7	16
3.	25	112276	8525	NBS54K	29	55	0	0	83	47	7	15
4.	25*	513860	346	NBS54K	28	57	2	0	100	47	7	14
5.	20*	10312831	339	NBS54K	22	30	1	0	100	53	5	14

Peak#: 32 Area: 86519. Est Conc: 6. Date: 02/16/93 19:17 Inst: 1

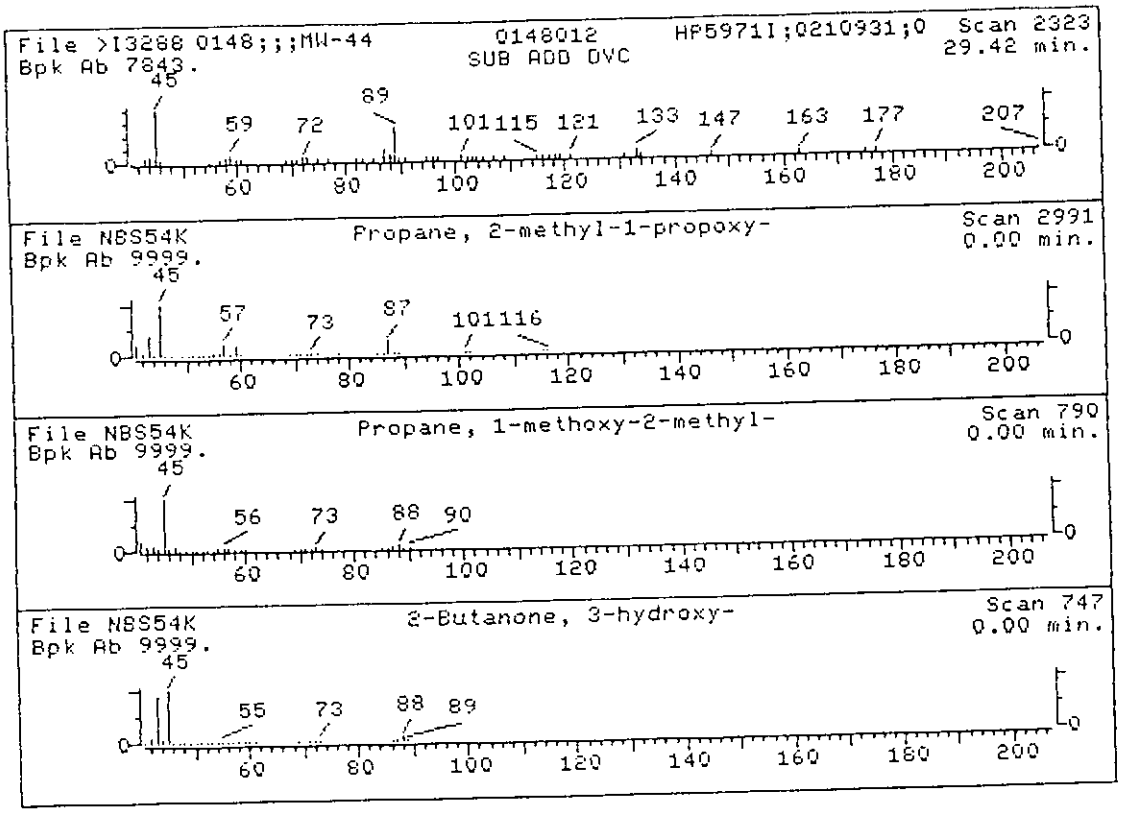


. Propane, 2-methyl-1-propoxy-	116	C7H16O
. Propane, 1-methoxy-2-methyl-	88	C5H12O
3. 2-Butanone, 3-hydroxy-	88	C4H8O2
4. 2-Hexanol	102	C6H14O
5. 1,3-Butanediol	90	C4H10O2

Sample file: >I3288 Spectrum #: 2323
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	15268492	7618	NBS54K	24	62	2	0	72	41	8	14
2.	25*	625445	348	NBS54K	27	55	2	0	100	48	7	14
3.	25*	513860	346	NBS54K	24	61	3	0	100	47	7	12
4.	25*	626937	353	NBS54K	24	64	2	0	100	50	7	14
5.	20*	107880	351	NBS54K	26	49	2	0	100	51	5	14

Peak#: 26 Area: 79995. Est Conc: 6. Date: 02/16/93 19:17 Inst: I

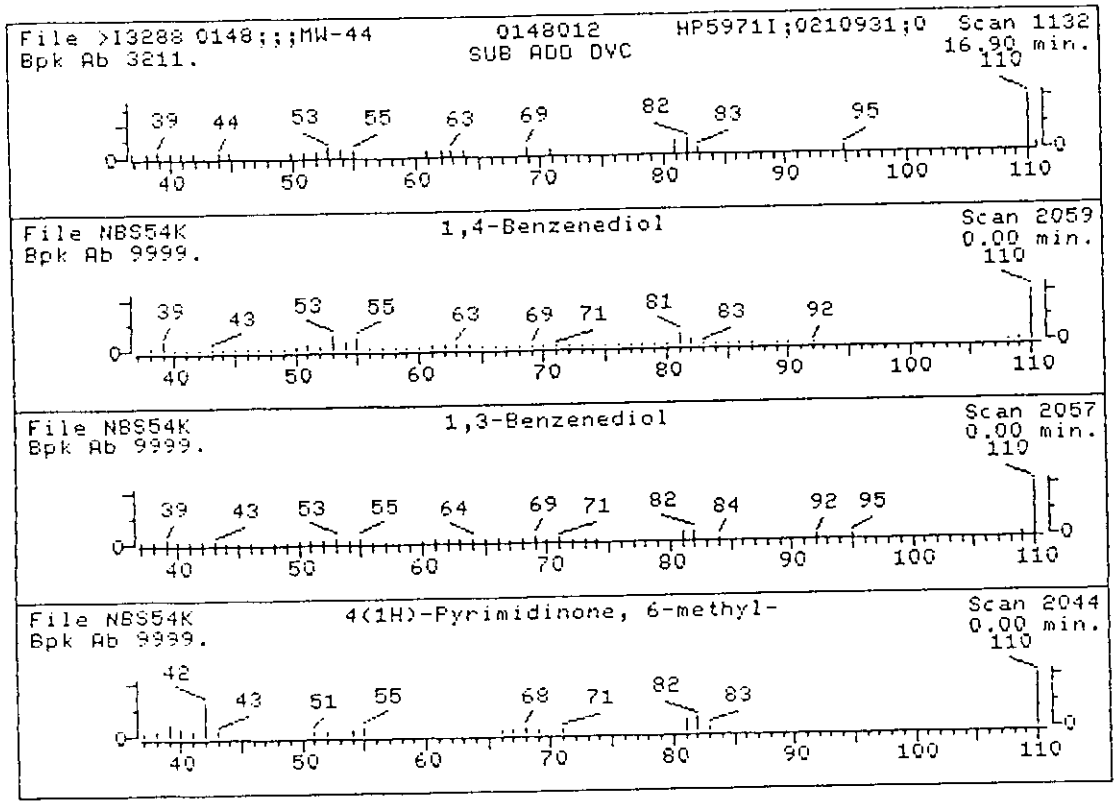


.	1,4-Benzenediol	110 C6H6O2
2.	1,3-Benzenediol	110 C6H6O2
3.	4(1H)-Pyrimidinone, 6-methyl-	110 C5H6N2O
4.	1H-Imidazole-2-carboxaldehyde, 1-methyl-	110 C5H6N2O

Sample file: >I3288 Spectrum #: 1132
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	123319	12287	NBS54K	41	52	3	0	100	13	30	14
2.	52*	108463	12286	NBS54K	35	49	2	0	100	20	20	17
3.	52*	3524876	12279	NBS54K	35	60	3	0	100	16	20	13
4.	52*	13750817	12281	NBS54K	28	63	3	0	100	20	20	13

Peak#: 11 Area: 52062. Est Conc: 6. Date: 02/16/93 19:17 Inst: I

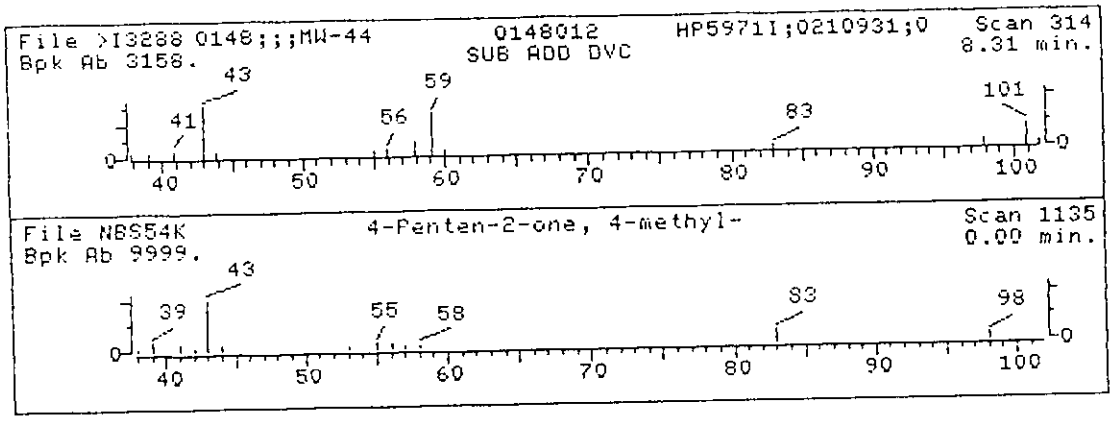


. 4-Penten-2-one, 4-methyl- 98 C6H10O

Sample file: >I3288 Spectrum #: 314
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	20*	3744023	9892	NBS54K	31	48	2	0	79	55	5	15

Peak#: 1 Area: 22994. Est Conc: 4. Date: 02/16/93 19:17 Inst: I

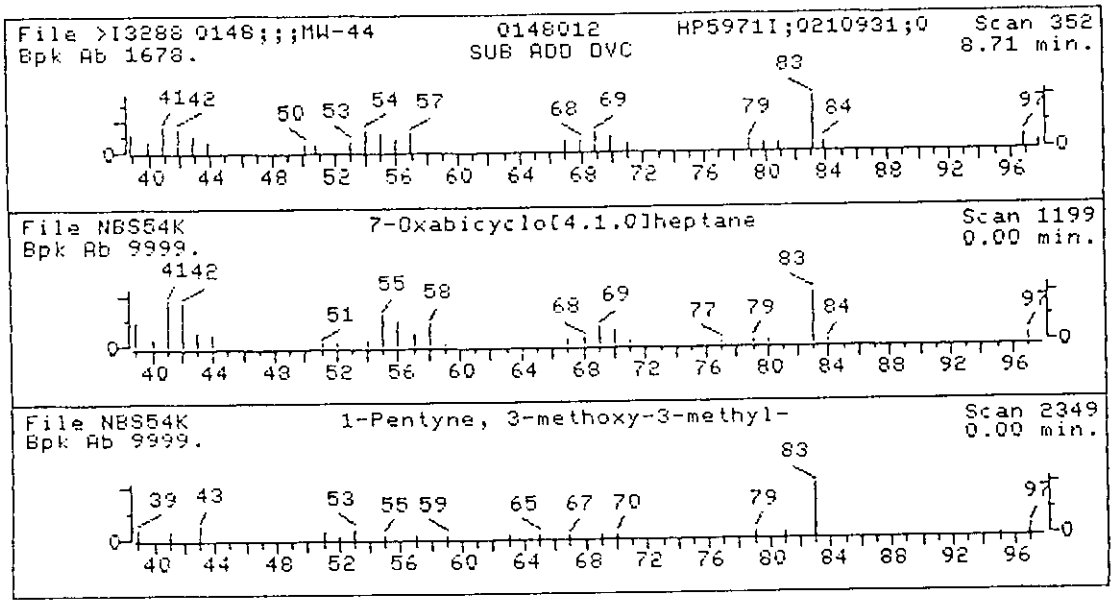


.. 7-Oxabicyclo[4.1.0]heptane 98 C6H10O
2. 1-Pentyne, 3-methoxy-3-methyl- 112 C7H12O

Sample file: >I3288 Spectrum #: 352
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	286204	6469	NBS54K	27	73	1	0	42	52	5	15
2.	20	22802353	6484	NBS54K	46	36	2	0	98	51	5	15

Peak#: 2 Area: 23902. Est Conc: 4. Date: 02/16/93 19:17 Inst: I

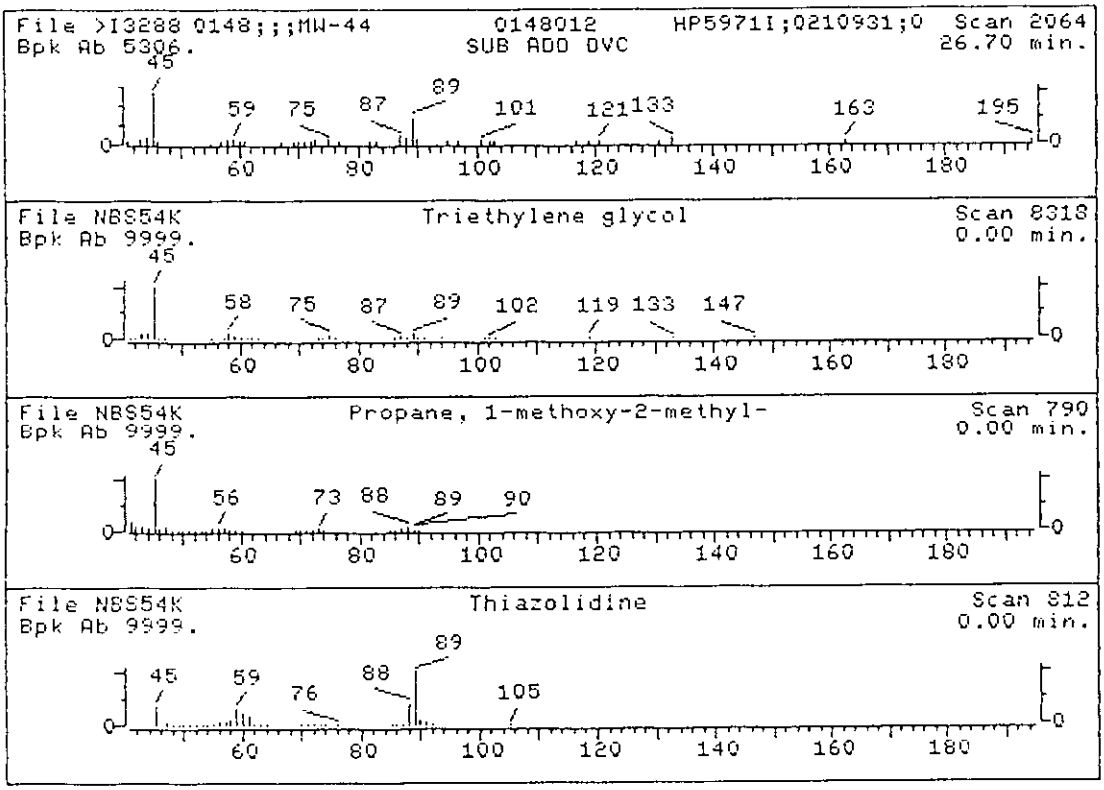


.	Triethylene glycol	150 C6H1404
2.	Propane, 1-methoxy-2-methyl-	88 C5H120
3.	Thiazolidine	89 C3H7NS

Sample file: >I3288 Spectrum #: 2064
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	27	112276	8525	NBS54K	29	55	0	0	79	44	8	15
2.	25*	625445	348	NBS54K	23	59	2	0	100	45	8	13
3.	11*	504789	8463	NBS54K	27	78	3	0	51	65	2	13

Peak#: 23 Area: 43447. Est Conc: 4. Date: 02/16/93 19:17 Inst: I

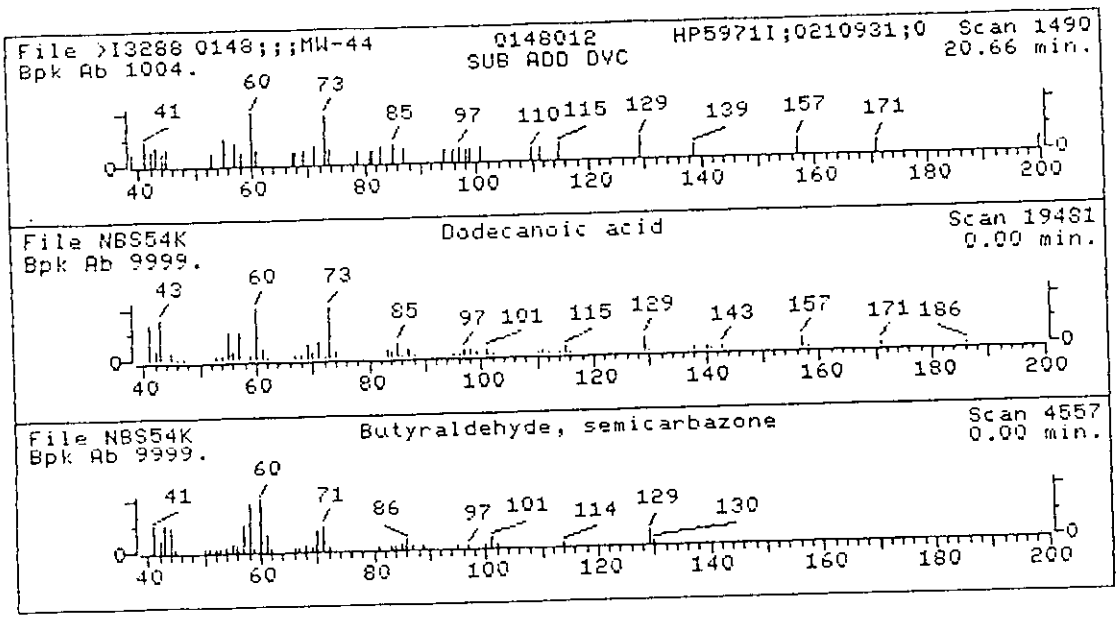


_. Dodecanoic acid 200 C12H24O2
2. Butyraldehyde, semicarbazone 129 C5H11N3O

Sample file: >I3288 Spectrum #: 1490
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	49*	143077	2233	NBS54K	60	78	3	0	94	30	19	27
2.	20*	13183216	2141	NBS54K	24	91	3	0	81	52	5	12

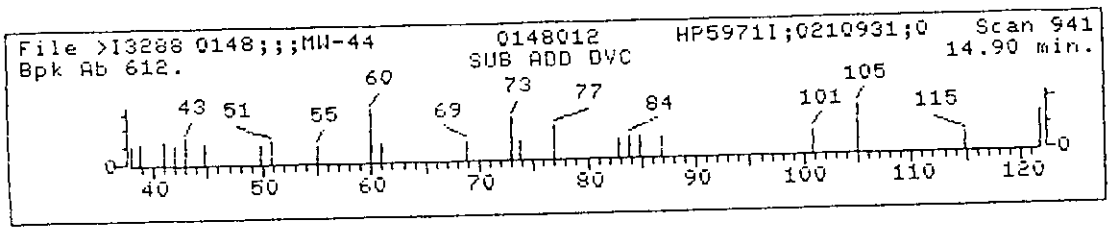
Peak#: 15 Area: 31180. Est Conc: 3. Date: 02/16/93 19:17 Inst: I



Sample file: >I3288 Spectrum #: 941

No data base entries were retrieved.

Peak#: 9 Area: 19467. Est Conc: 2. Date: 02/16/93 19:17 Inst: I



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-46

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0451

Matrix: (soil/water) WATER Lab Sample ID: 0148013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3289.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	25	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene		

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-46 0452

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3289.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.5	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-46 0453

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3289.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: ~~0~~ 10 CMC 2/25/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.71	7	JB
2.		↓ KKH 2/26/93	17.68	7	J
3.		UNKNOWN CYCLOHEXEN-1-OL ~~ISOMER~~	9.45	4	↓
4.		UNKNOWN	10.45	3	
5.		↓	14.42	3	
6.	403196	2-FLUORO-4-NITROPHENOL	14.74	3	JN
7.		UNKNOWN	15.85	3	J
8.		ALDOL CONDENSATION PRODUCT	8.30	3	JAB
9.		UNKNOWN	23.47	3	J
10.	115968	ETHANOL,2-CHLORO-,PHOSPHATE	23.36	2	JN
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

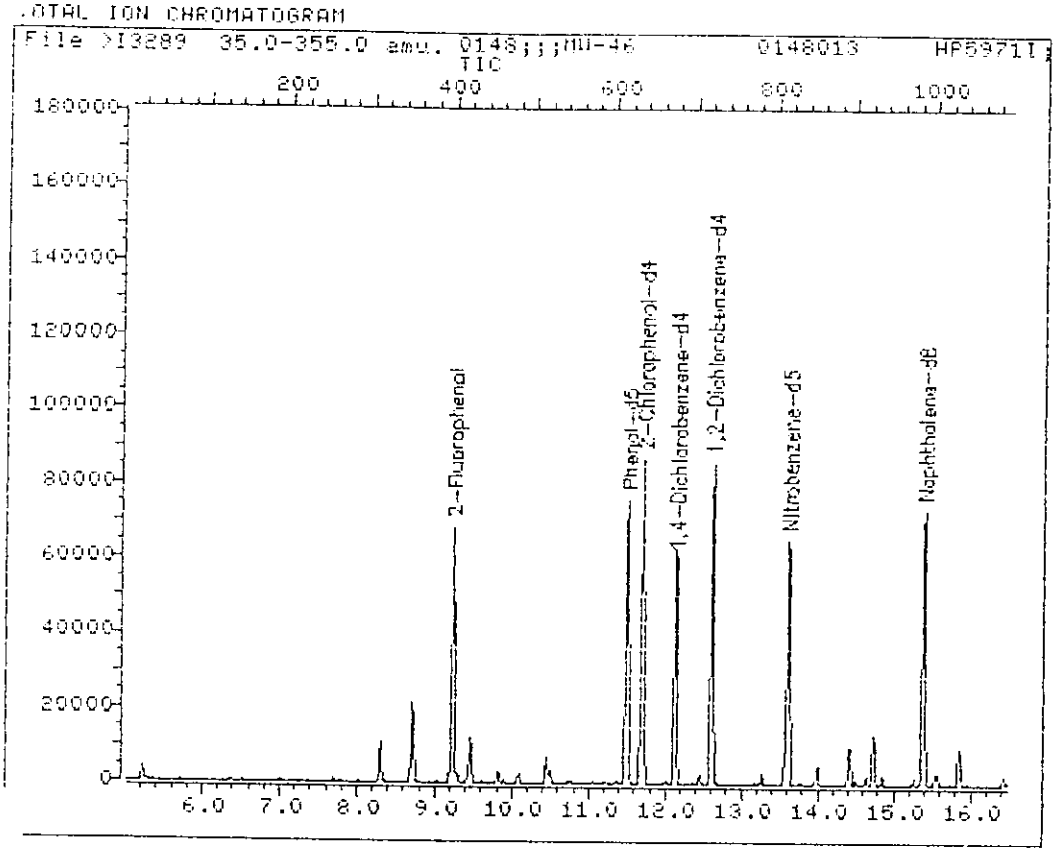
Operator ID: USER1 Quant Rev: 7 Quant Time: 930223 14:43
Output File: ^I3289::A6 Injected at: 930216 20:19
Data File: >I3289::A4 Dilution Factor: .50000
Name: 0148;;;MW-46 Instrument ID: **MSD
Misc: 0148013 HP5971I;0210931;021193;LLW;1;;;I0

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.13	151.8	24449	40.00	ug	94
2)	2-Chlorophenol-d4	11.70	132.0	61534	39.70	ug	80
3)	2-Fluorophenol	9.22	111.8	55949	36.35	ug	73
4)	Phenol-d5	11.50	98.8	81239	37.84	ug	62
10)	1,2-Dichlorobenzene-d4	12.61	152.0	33468	32.16	ug	96
17)	*Naphthalene-d8	15.39	135.9	91127	40.00	ug	97
18)	Nitrobenzene-d5	13.60	81.8	56329	32.53	ug	72
31)	*Acenaphthene-d10	20.05	163.9	52965	40.00	ug	92
)	2-Fluorobiphenyl	18.28	171.8	95927	29.18	ug	96
51)	2,4,6-Tribromophenol	22.17	329.6	24716	32.63	ug	93
52)	*Phenanthrene-d10	23.94	187.9	95101	40.00	ug	98
61)	Di-n-butylphthalate	25.58	148.8	3178	.515	ug	62
63)	*Chrysene-d12	31.29	240.0	79440	40.00	ug	96
65)	Terphenyl-d14	28.18	244.0	50610	14.47	ug	97
~~66)~~	~~Butylbenzylphthalate~~	~~29.55~~	~~149.0~~	~~522~~	~~.178~~	~~ug~~	~~74~~
~~70)~~	~~bis(2-Ethylhexyl)phthalate~~	~~31.40~~	~~149.0~~	~~2079~~	~~.584~~	~~ug~~	~~74~~
71)	*Perylene-d12	38.18	264.0	84056	40.00	ug	95
~~72)~~	~~Di-n-octylphthalate~~	~~34.03~~	~~149.0~~	~~2180~~	~~.283~~	~~ug~~	~~16~~

* Compound is ISTD

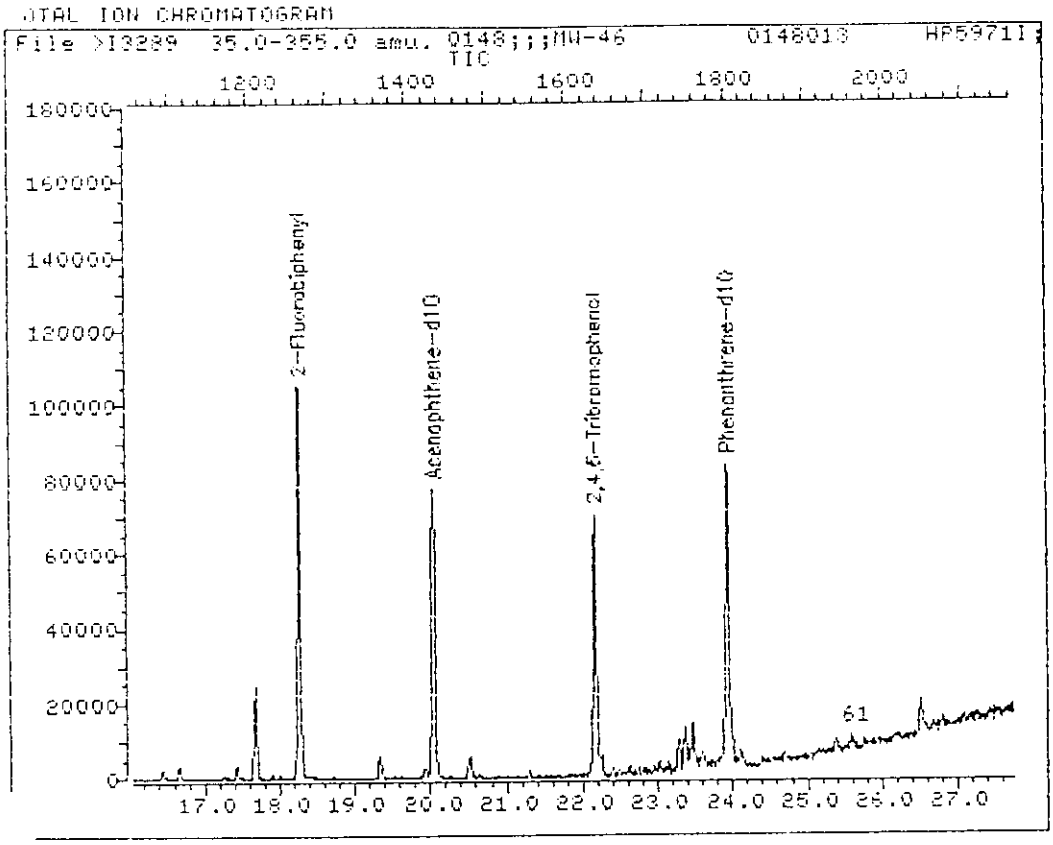
Conc 2/23/93



Data File: >I3289::A4 Quant Output File: ^I3289::A6
Name: 0148;;;MW-46 Instrument ID: **MSD
Misc: 0148013 HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

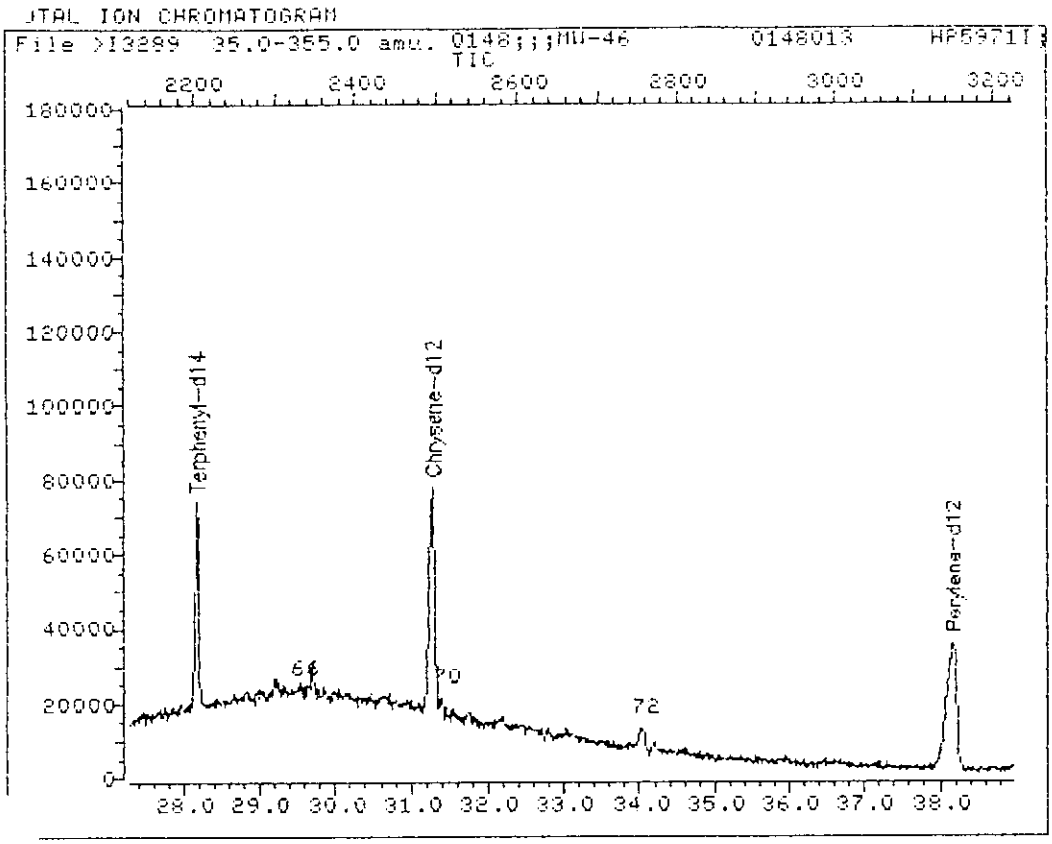
Operator ID: USER1
Quant Time : 930223 14:43
Injected at: 930216 20:19



Data File: >I3289::A4 Quant Output File: ^I3289::A6
Name: 0148;;;MW-46 Instrument ID: **MSD
Misc: 0148013 HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

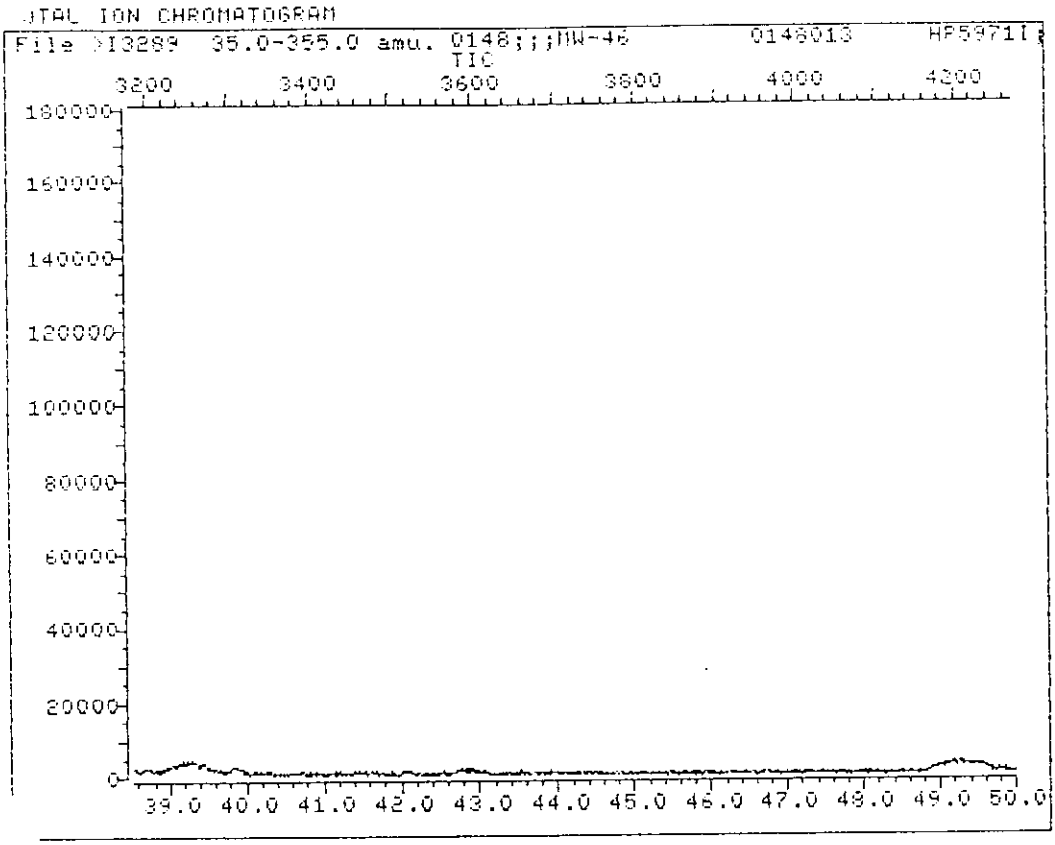
Operator ID: USER1
Quant Time : 930223 14:43
Injected at: 930216 20:19



Data File: >I3289::A4 Quant Output File: ^I3289::A6
Name: 0148;;;MW-46 Instrument ID: **MSD
Misc: 0148013 HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

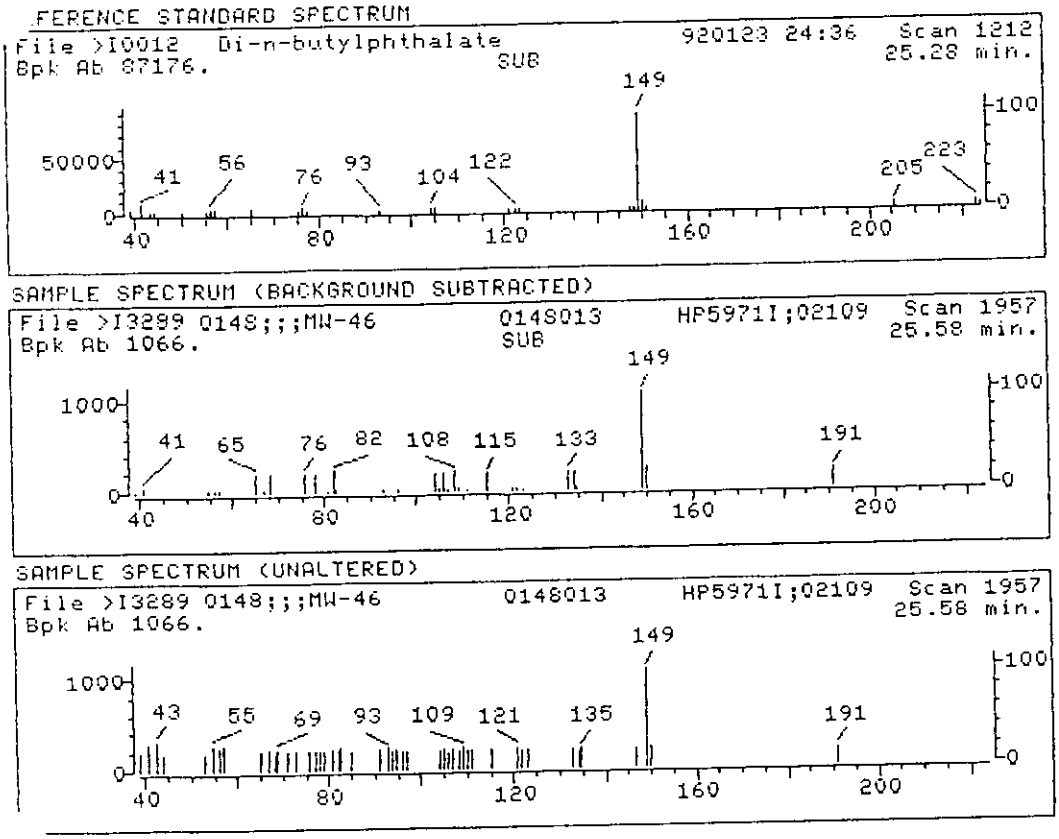
Operator ID: USER1
Quant Time : 930223 14:43
Injected at: 930216 20:19



Data File: >I3289::A4 Quant Output File: ^I3289::A6
Name: 0148;;;MW-46 Instrument ID: **MSD
Misc: 0148013 HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:43
Injected at: 930216 20:19



Data File: >I3289::A5
Name: 0148;;;MW-46
Misc: 0148013 HP5971I;0210931;021193;LLW;1;;;I0
Quant Time: 930216 21:16
Injected at: 930216 20:19
Last Qcal Time: 930216 08:48

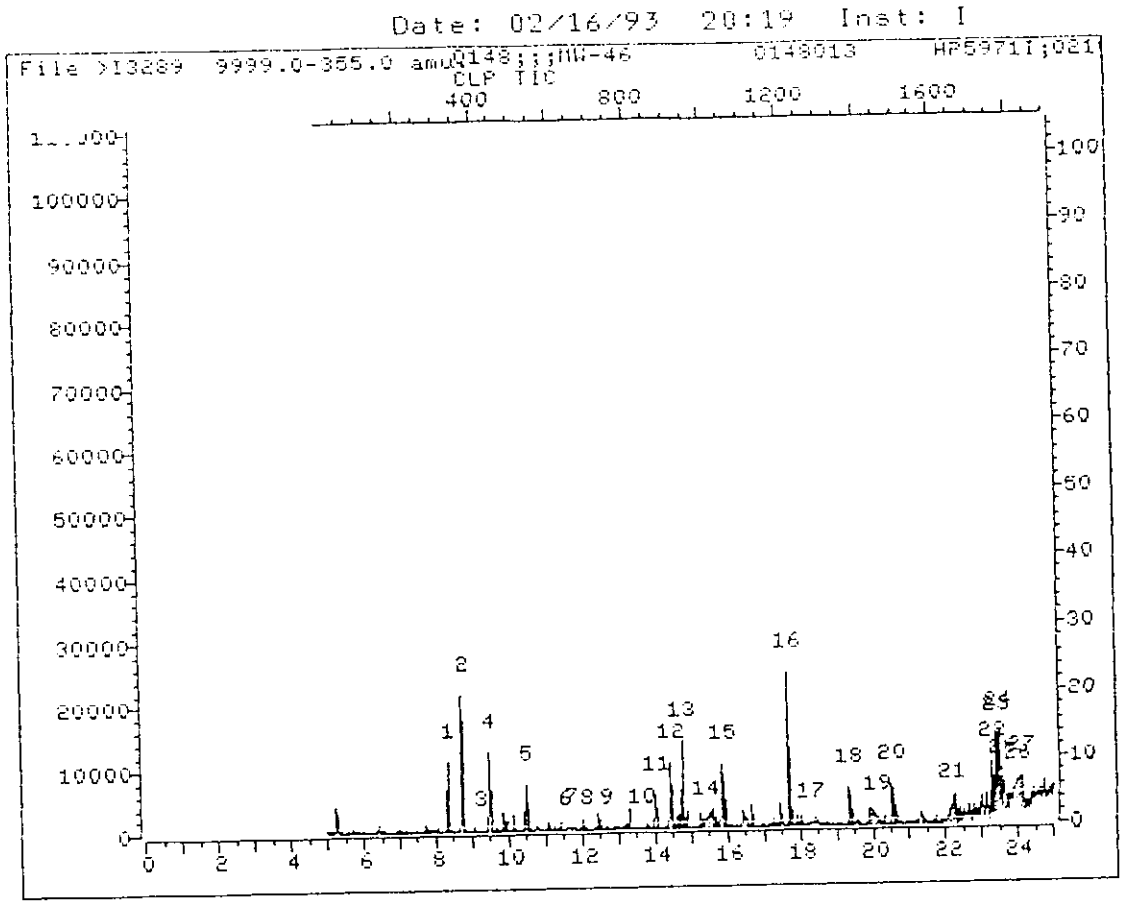
Quant Output File: ^I3289::A6
Instrument ID: **MSD
Quant ID File: I_IFI::A5
Last Calibration: 910116 11:52

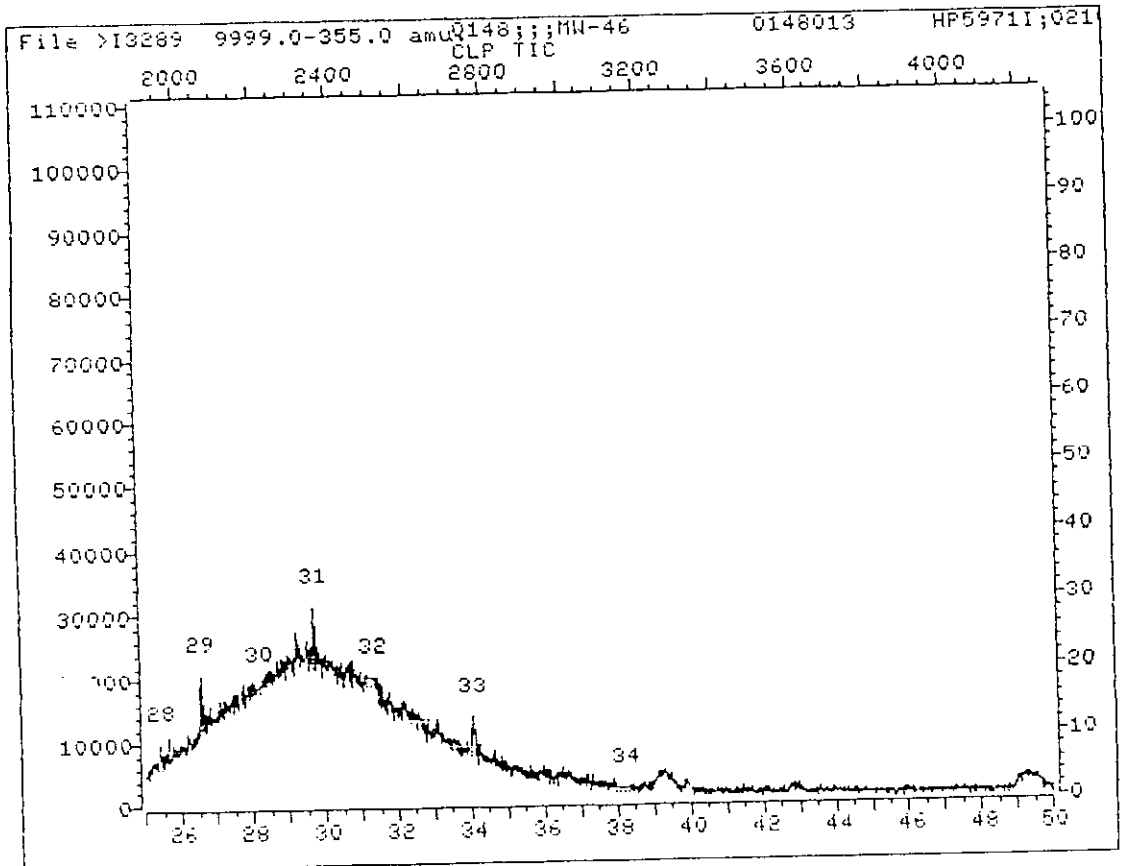
Compound No : 61
Compound Name : Di-n-butylphthalate
Scan Number : 1957
Retention Time: 25.58 min.
Quant Ion : 148.8
Area : 3178
Concentration : .515 ug
q-value : 62

MF data file header from : >I3289::A5

Sample: 0148;;;MW-46 Operator: USER1 2/16/93 20:19
Misc : 0148013 HP5971I;0210931;021193;LLW;1;;;I0
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 10 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0


Date: 02/16/93 20:19 Inst: I
File >I3289 9999.0-355.0 amu Q148;;;MW-46 0148013 HP5971I;021
CLP TIC


File >I3289 9999.0-355.0 amu Q148;;;MW-46 0148013 HP5971I;021
CLP TIC

MW-46
HP5971I

0462

Date: 02/16/93 20:19 Inst: I

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
2.	8.71	49370.	7.	1.	.50
16.	17.68	61215.	7.	2.	.50
4.	9.45	26526.	4.	1.	.50
5.	10.45	17748.	3.	1.	.50
12.	14.42	24045.	3.	2.	.50
13.	14.74	30106.	3.	2.	.50
15.	15.85	24553.	3.	2.	.50
1.	8.30	23578.	3.	1.	.50
24.	23.47	36250.	3.	4.	.50
23.	23.36	30937.	2.	4.	.50

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.12	135129.	0.00	13.76	5.5
NAPHTHALENE-D8	15.39	177276.	13.76	17.72	1.9
ACENAPHTHENE-D10	20.05	227513.	17.72	22.00	4.3
PHENANTHRENE-D10	23.94	269094.	22.00	27.62	2.8
CHRYSENE-D12	31.29	289072.	27.62	34.74	3.6
PERYLENE-D12	38.18	307455.	34.74	38.18	3.7

ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	4
Target peaks matched:	0
Total TIC identified:	10

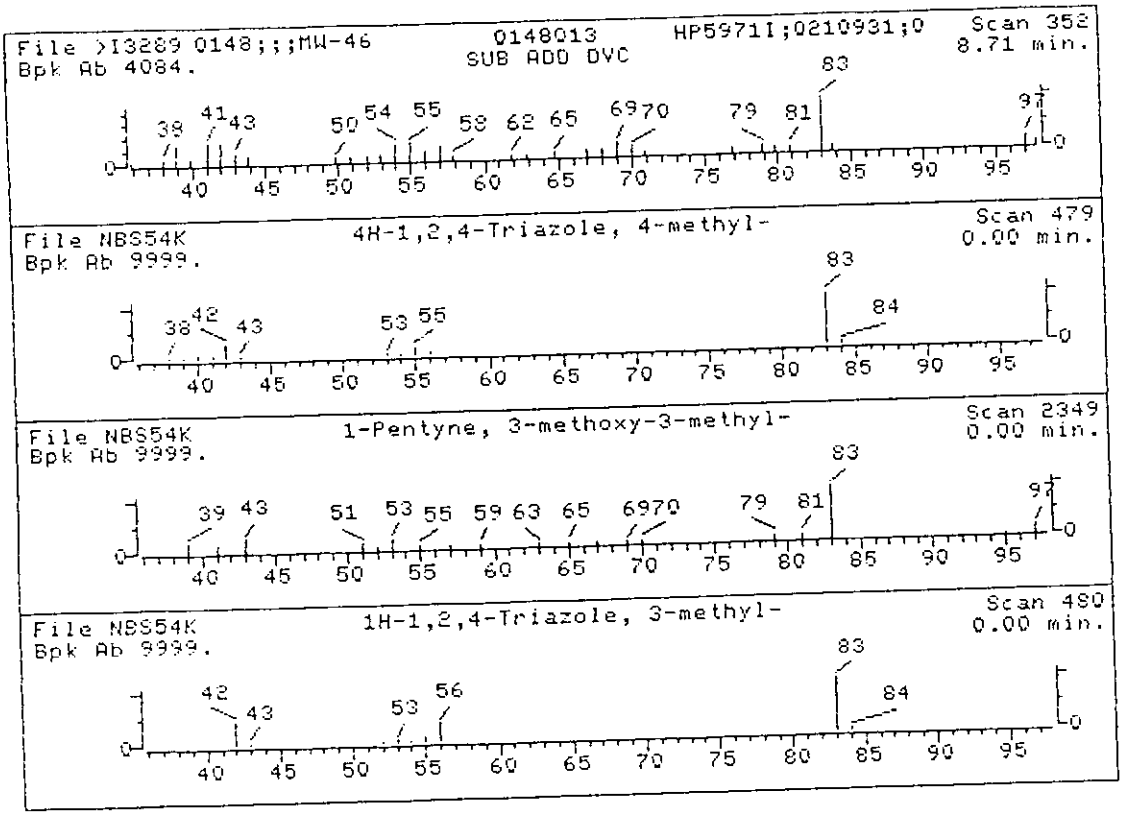
TICS : 2:17 PM MON., 22 FEB., 1993

.	4H-1,2,4-Triazole, 4-methyl-	83 C3H5N3
2.	1-Pentyne, 3-methoxy-3-methyl-	112 C7H12O
3.	1H-1,2,4-Triazole, 3-methyl-	83 C3H5N3

Sample file: >I3289 Spectrum #: 352
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	10570408	6458	NBS54K	29	46	0	0	100	42	12	21
2.	26	22802353	6484	NBS54K	41	41	2	0	73	42	8	14
3.	25*	7170016	6459	NBS54K	22	33	1	0	84	48	7	14

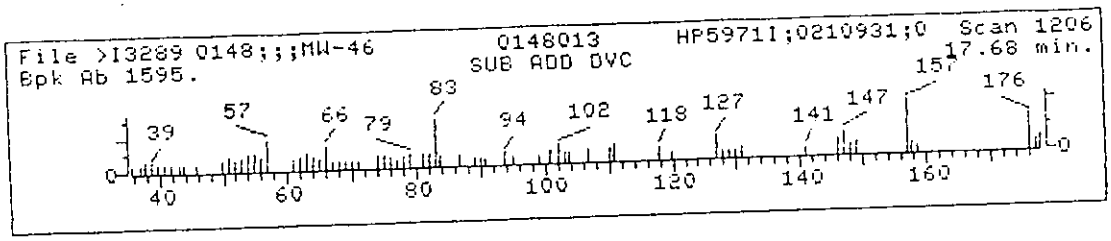
Peak#: 2 Area: 49370. Est Conc: 7. Date: 02/16/93 20:19 Inst: I



Sample file: >I3289 Spectrum #: 1206

No data base entries were retrieved.

Peak#: 16 Area: 61215. Est Conc: 7. Date: 02/16/93 20:19 Inst: I

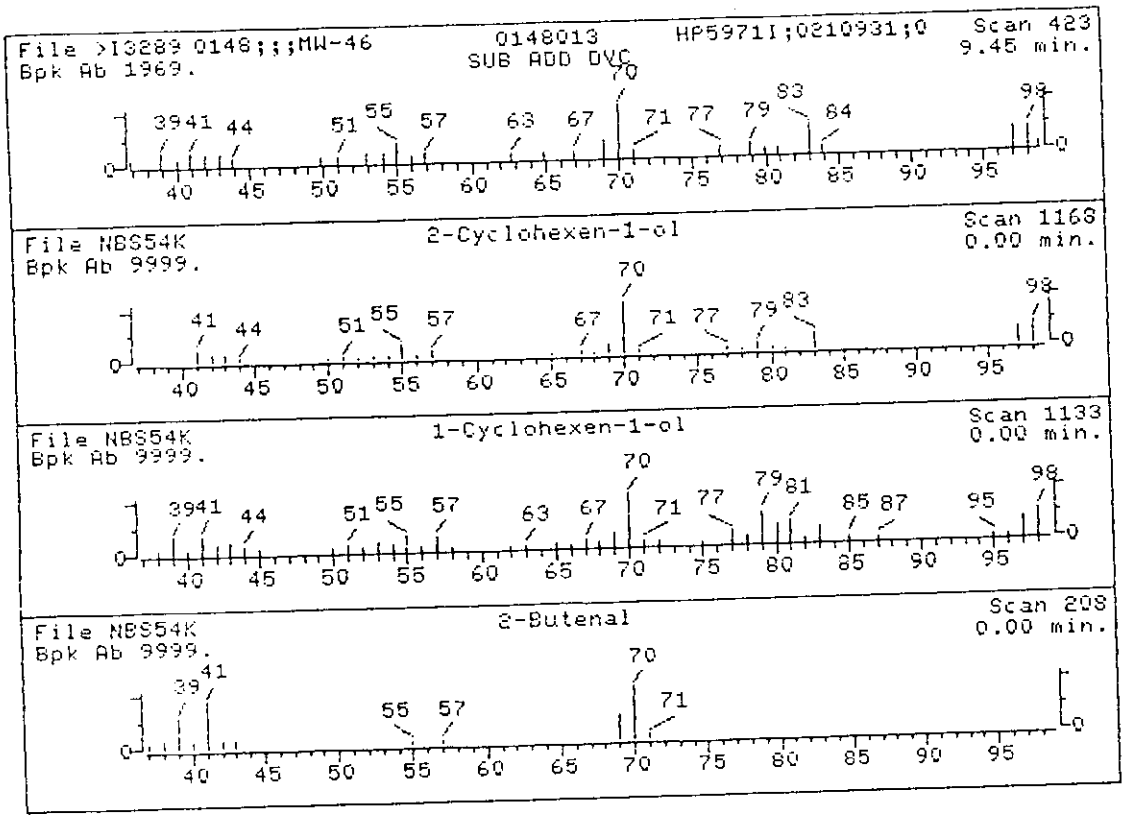


. 2-Cyclohexen-1-ol	98	C6H10O
. 1-Cyclohexen-1-ol	98	C6H10O
3. 2-Butenal	70	C4H6O
4. Butane, 2-isocyanato-	99	C5H9NO
5. 1H-Pyrazole, 3-ethyl-4,5-dihydro-	98	C5H10N2

Sample file: >I3289 Spectrum #: 423
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	822673	4036	NBS54K	56	43	0	0	99	27	29	67
2.	42*	4065810	4033	NBS54K	47	66	3	0	79	25	17	13
3.	11*	4170303	3994	NBS54K	36	50	3	0	100	65	2	14
4.	11*	15585985	4049	NBS54K	33	50	2	0	81	63	2	16
5.	11*	5920296	9888	NBS54K	23	66	2	0	46	61	2	13

Peak#: 4 Area: 26526. Est Conc: 4. Date: 02/16/93 20:19 Inst: I

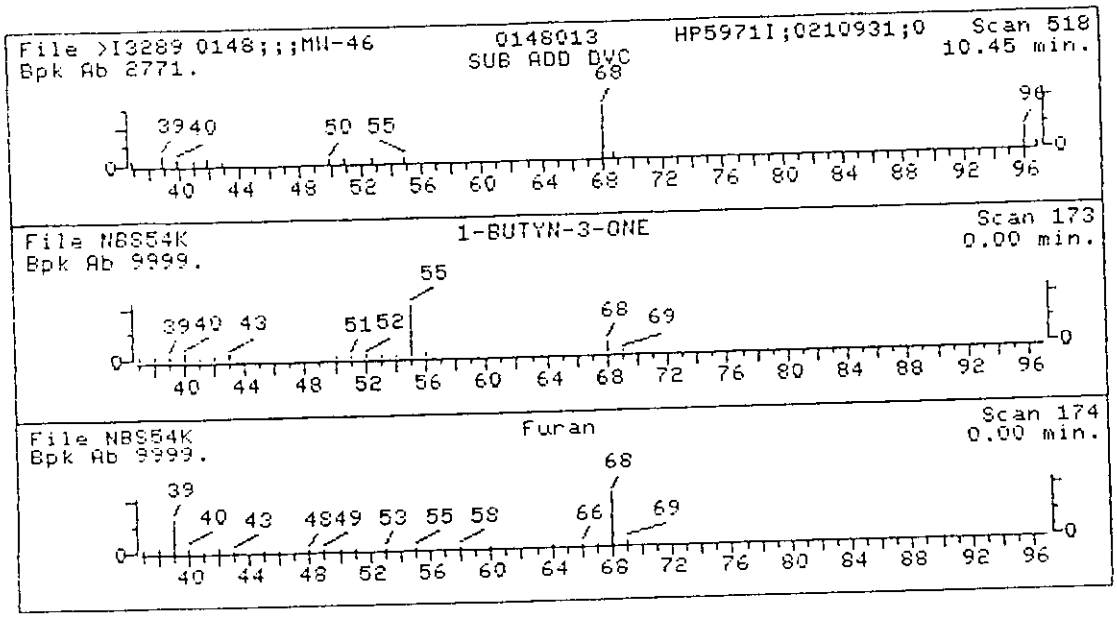


1. 1-BUTYN-3-ONE 68 C4H4O
2. Furan 68 C4H4O

Sample file: >I3289 Spectrum #: 518
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	41*	173	185	NBS54K	22	88	3	0	100	23	17	12
2.	36*	110009	3702	NBS54K	26	46	3	0	100	26	14	13

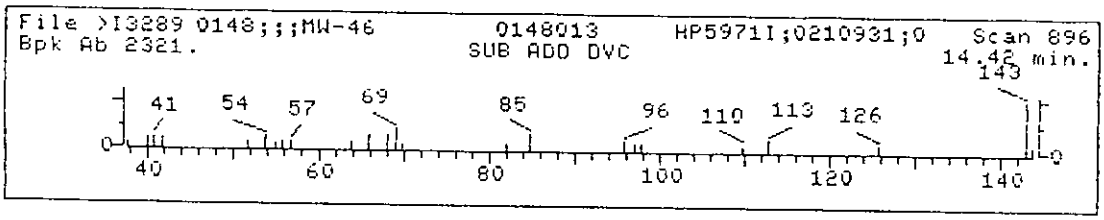
Peak#: 5 Area: 17748. Est Conc: 3. Date: 02/16/93 20:19 Inst: I



Sample File: >I3289 Spectrum #: 896

No data base entries were retrieved.

Peak#: 12 Area: 24045. Est Conc: 3. Date: 02/16/93 20:19 Inst: I



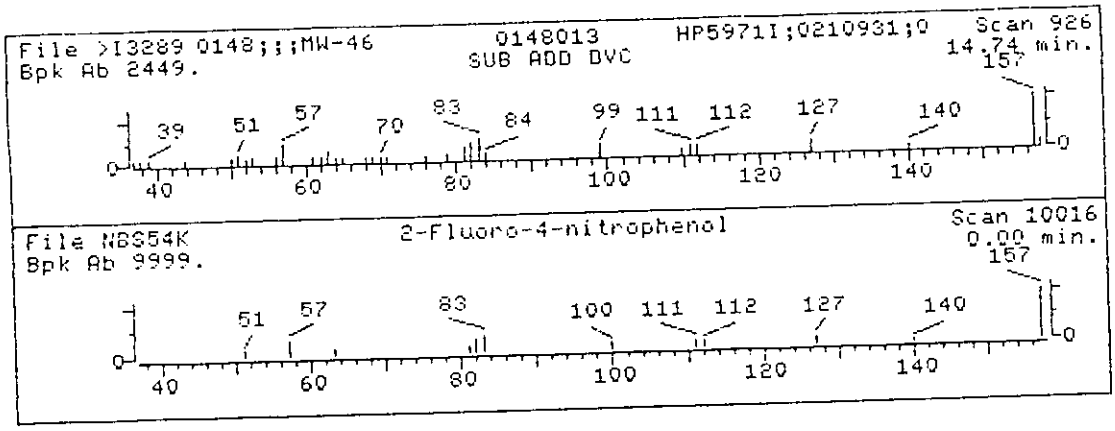
.. 2-Fluoro-4-nitrophenol

157 C6H4FNO3

Sample file: >I3289 Spectrum #: 926
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	403190	21881	NBS54K	74	15	1	0	100	24	47	89

Peak#: 13 Area: 30106. Est Conc: 3. Date: 02/16/93 20:19 Inst: I



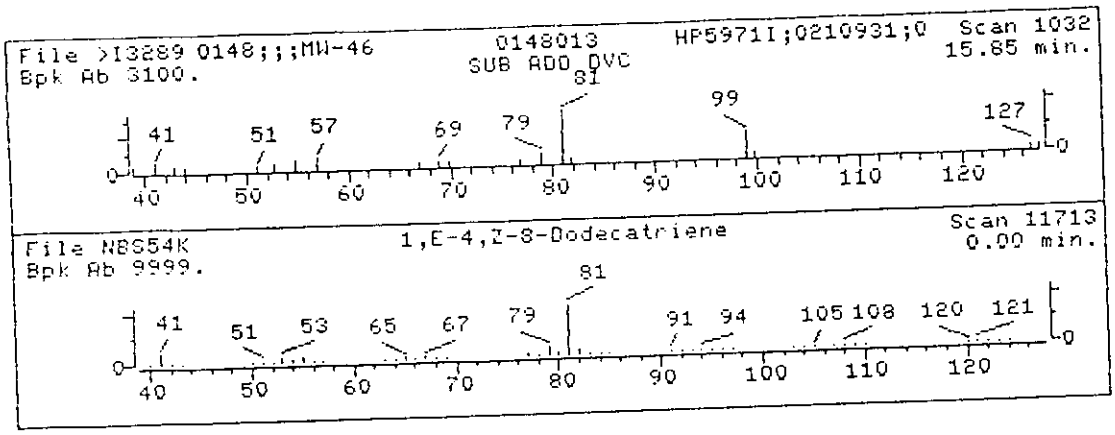
164 C12H20

.. 1,E-4,Z-8-Dodecatriene

Sample file: >I3289 Spectrum #: 1032
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26	83489229	6118	NBS54K	36	45	2	0	100	40	10	12

Peak#: 15 Area: 24553. Est Conc: 3. Date: 02/16/93 20:19 Inst: I

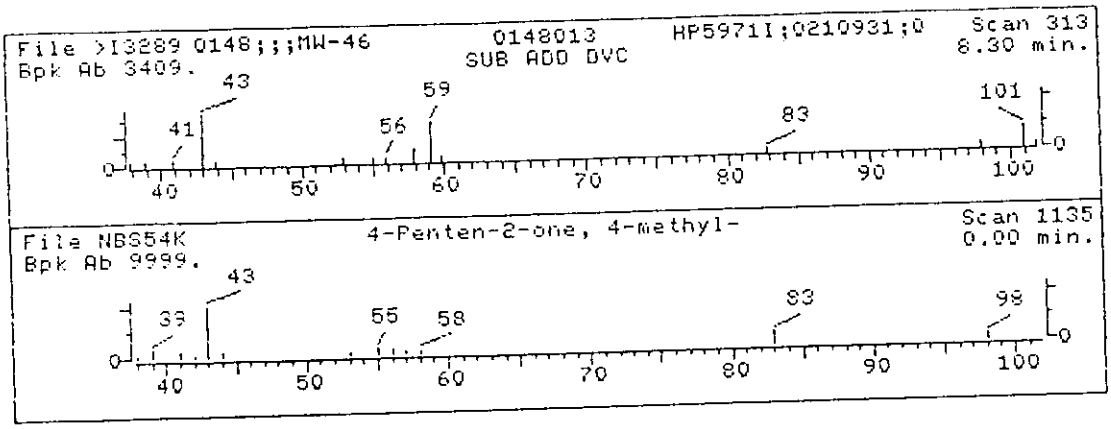


. 4-Penten-2-one, 4-methyl- 98 C6H10O

Sample file: >I3289 Spectrum #: 313
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	3744023	9897	NBS54K	36	43	2	0	77	56	3	18

Peak#: 1 Area: 23578. Est Conc: 3. Date: 02/16/93 20:19 Inst: I

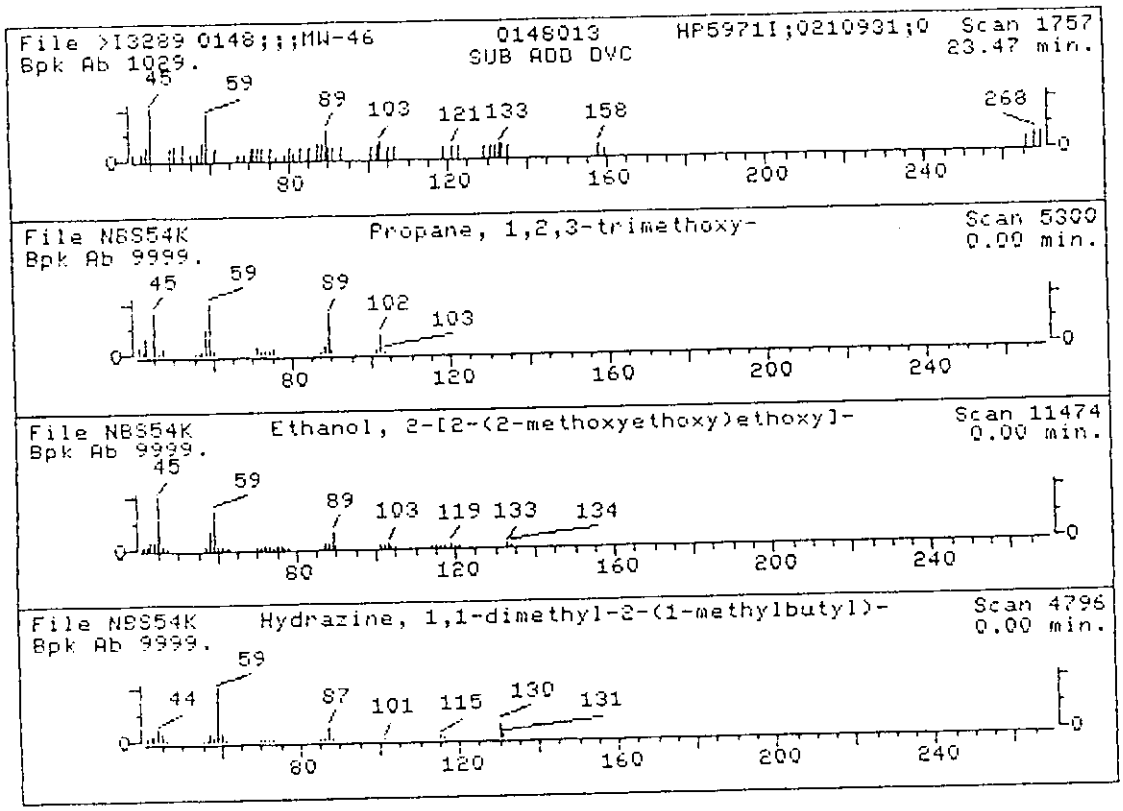


.	Propane, 1,2,3-trimethoxy-	134 C6H14O3
2.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H16O4
3.	Hydrazine, 1,1-dimethyl-2-(1-methylbutyl)-	130 C7H18N2
4.	2,5,8,11,14-Pentaoxahexadecan-16-ol	252 C11H24O6

Sample file: >I3289 Spectrum #: 1757
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25	20637494	8497	NBS54K	39	73	0	0	67	48	7	15
2.	15	112356	8547	NBS54K	25	74	0	0	100	60	3	12
3.	11*	75267979	1916	NBS54K	23	76	0	0	74	63	2	16
4.	11	23778521	8670	NBS54K	25	104	0	0	100	61	2	12

Peak#: 24 Area: 36250. Est Conc: 3. Date: 02/16/93 20:19 Inst: 1

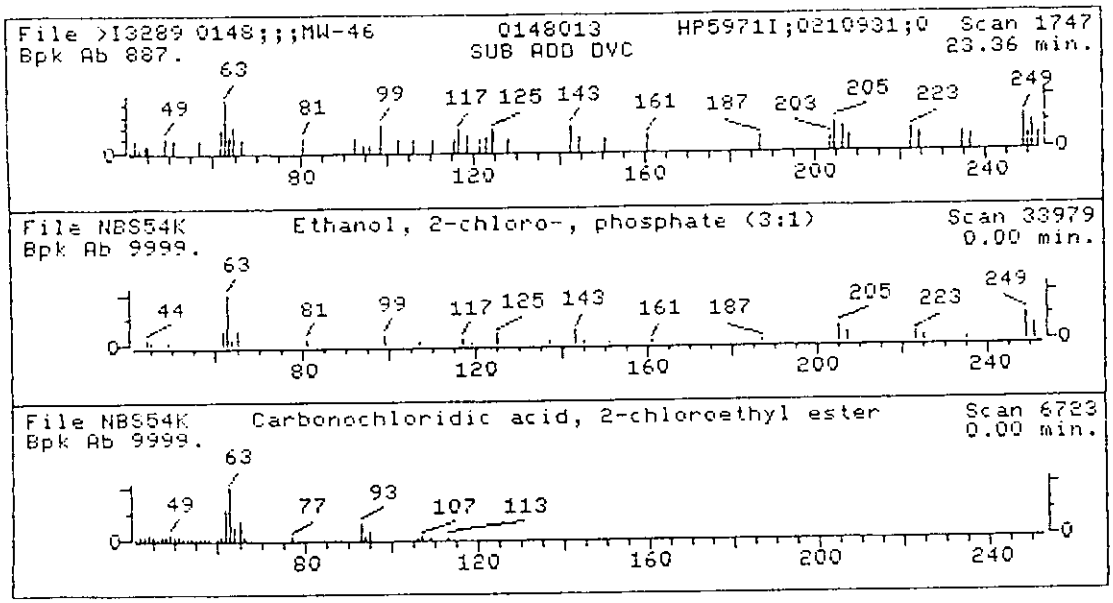


. Ethanol, 2-chloro-, phosphate (3:1) 284 C6H12Cl3O4P
2. Carbonochloridic acid, 2-chloroethyl ester 142 C3H4Cl2O2

Sample file: >I3289 Spectrum #: 1747
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29	115968	2930	NBS54K	31	136	0	0	100	38	10	15
2.	11	627112	2536	NBS54K	36	76	0	0	67	65	2	15

Peak#: 23 Area: 30937. Est Conc: 2. Date: 02/16/93 20:19 Inst: I



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0473

EPA SAMPLE NO.

MW-35

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3303.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	5	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	2	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0474

EPA SAMPLE NO.

MW-35

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3303.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	1	J
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.8	JB
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	0.9	J
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.7	JB
117-84-0	Di-n-octylphthalate	10 0.4	J U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

cmc 2/25/98

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0175
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-35

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3303.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 21

CONC 2/25/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN DIMETHYL-NAPHTHALENE	19.53	6	JB
2.		UNKNOWN	20.94	5	
3.		UNKNOWN	18.86	4	
4.		UNKNOWN MW=162	19.10	4	
5.		UNKNOWN ~~MW=136~~	15.98	4	
6.		UNKNOWN BENZO[b]THIOPHENE-METHYL	17.02	4	
7.		UNKNOWN	19.15	3	
8.			15.88	3	
9.		ALDOL CONDENSATION PRODUCT	8.16	3	JAB
10.		UNKNOWN $C_{10}H_{14}$	12.84	3	
11.		UNKNOWN	13.23	3	
12.		UNKNOWN C_4 ALKYL BENZENE	13.99	3	
13.		UNKNOWN	14.51	3	
14.		UNKNOWN $C_{10}H_{14}$	14.65	3	
15.		UNKNOWN	21.06	3	
16.			33.28	3	
17.			15.85	2	
18.			14.76	2	
19.		UNKNOWN MW=128	16.50	2	
20.			13.81	2	
21.		UNKNOWN	8.57 8.57	2	JB
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

Operator ID: USER1
Output File: ^I3303::A6
Data File: >I3303::A5
Name: 0148;;;MW-35
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02

Quant Rev: 7 Quant Time: 930222 17:29
Injected at: 930219 11:39
Dilution Factor: .50000
Instrument ID: **MSD

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930219 10:28

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *1,4-Dichlorobenzene-d4	12.00	151.8	26640	40.00	ug	94
2) 2-Chlorophenol-d4	11.60	132.0	69661	40.93	ug	79
3) 2-Fluorophenol	9.15	111.8	70491	40.52	ug	72
4) Phenol-d5	11.44	98.8	102646	43.19	ug	61
5) 2-Chlorophenol	11.63	127.8	614	.344	ug	45
10) 1,2-Dichlorobenzene-d4	12.47	152.0	31294	28.12	ug	93
17) *Naphthalene-d8	15.25	135.9	95882	40.00	ug	97
18) Nitrobenzene-d5	13.47	81.8	52273	27.23	ug	71
19) Nitrobenzene	13.81	76.8	1269	.713	ug	79
20) 2,4-Dimethylphenol	14.53	106.8	236	.133	ug	82
26) Naphthalene	15.29	127.9	2117	.401	ug	73
29) 4-Chloro-3-methylphenol	16.79	106.9	511	.289	ug	72
30) 2-Methylnaphthalene	17.39	141.9	15844	4.73	ug	95
31) *Acenaphthene-d10	19.91	163.9	46310	40.00	ug	89
35) 2-Fluorobiphenyl	18.13	171.8	86505	30.34	ug	97
36) 2-Chloronaphthalene	18.66	161.8	2685	1.03	ug	73
40) 2,6-Dinitrotoluene	19.32	164.8	2077	2.54	ug	76
42) Acenaphthene	19.99	152.9	5152	2.20	ug	99
43) 2,4-Dinitrophenol	20.04	183.8	389	.892	ug	46
45) Dibenzofuran	20.41	167.8	4117	1.13	ug	81
46) 2,4-Dinitrotoluene	20.79	164.8	1247	1.02	ug	54
49) Fluorene	21.32	165.9	6515	2.74	ug	94
50) 4-Nitroaniline	21.54	137.9	178	.258	ug	49
51) 2,4,6-Tribromophenol	22.07	329.6	30258	44.78	ug	93
52) *Phenanthrene-d10	23.83	187.9	81306	40.00	ug	99
53) 4,6-Dinitro-2-methylphenol	21.64	197.9	1210	1.81	ug	39
58) Phenanthrene	23.87	177.9	2491	.665	ug	81
59) Carbazole	24.42	166.8	254	.211	ug	63
60) Anthracene	23.99	177.9	4876	1.27	ug	97
61) Di-n-butylphthalate	25.48	148.8	4342	.844	ug	95
62) Fluoranthene	27.04	201.9	5852	1.40	ug	93
63) *Chrysene-d12	31.12	240.0	87707	40.00	ug	98
64) Pyrene	27.64	201.9	4795	.867	ug	98
65) Terphenyl-d14	28.06	244.0	53266	13.78	ug	99
66) Butylbenzylphthalate	29.42	148.8	320	.101	ug	86
67) 3,3'-Dichlorobenzidine	31.00	251.9	624	.609	ug	34
68) Benzo(a)anthracene	31.05	228.0	2932	.597	ug	81
69) Chrysene	31.16	228.0	2000	.698	ug	78
70) bis(2-Ethylhexyl)phthalate	31.21	148.8	2673	.679	ug	85
71) *Perylene-d12	32.83	264.0	87178	40.00	ug	99

QUANT REPORT

Quant Rev: 7 Quant Time: 930222 17:29
Injected at: 930219 11:39
Dilution Factor: .50000
Instrument ID: **MSD

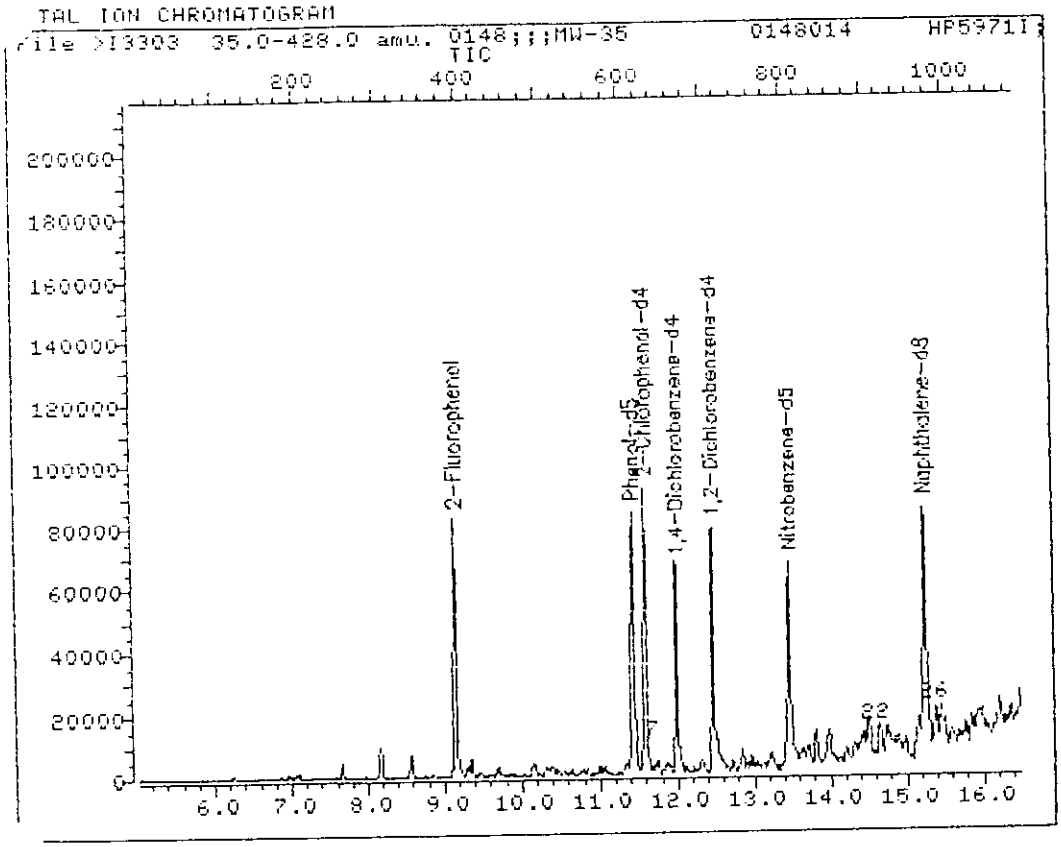
Operator ID: USER1
Output File: ^I3303::A6
Data File: >I3303::A5
Name: 0148;;;MW-35
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Compound	R.T.	Q ion	Area	Conc	Units	q
~~72.) Di-n-octylphthalate~~	~~33.77~~	~~149.0~~	~~3465~~	~~.451~~	~~ug~~	~~56~~

* Compound is ISTD

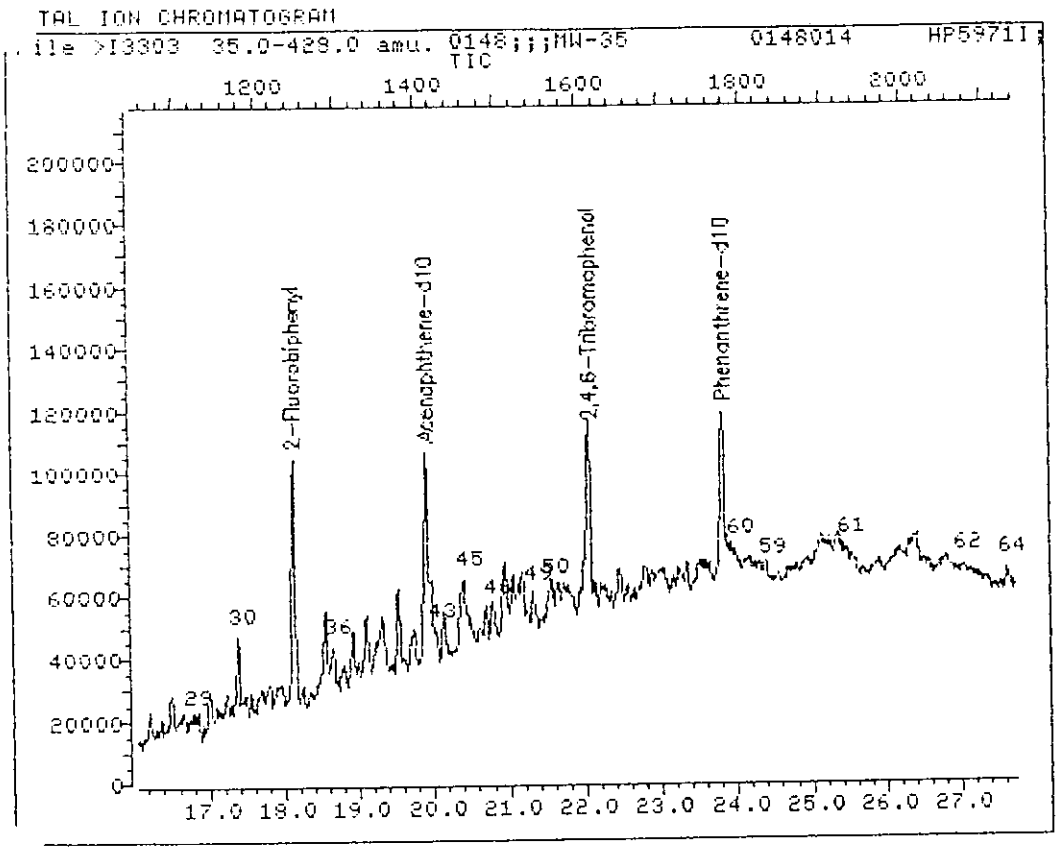
Conc 2/28/93



Data File: >I3303::A5 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

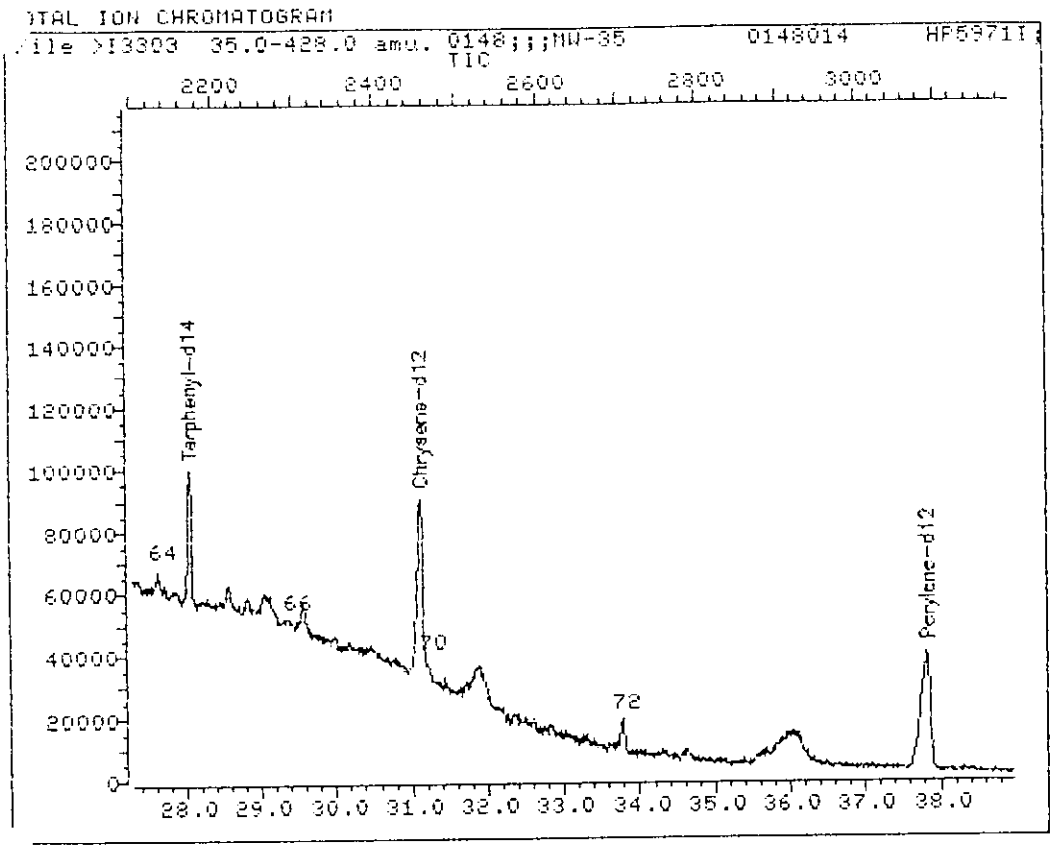
Operator ID: USER1
Quant Time : 930222 17:29
Injected at: 930219 11:39



Data File: >I3303::A5 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

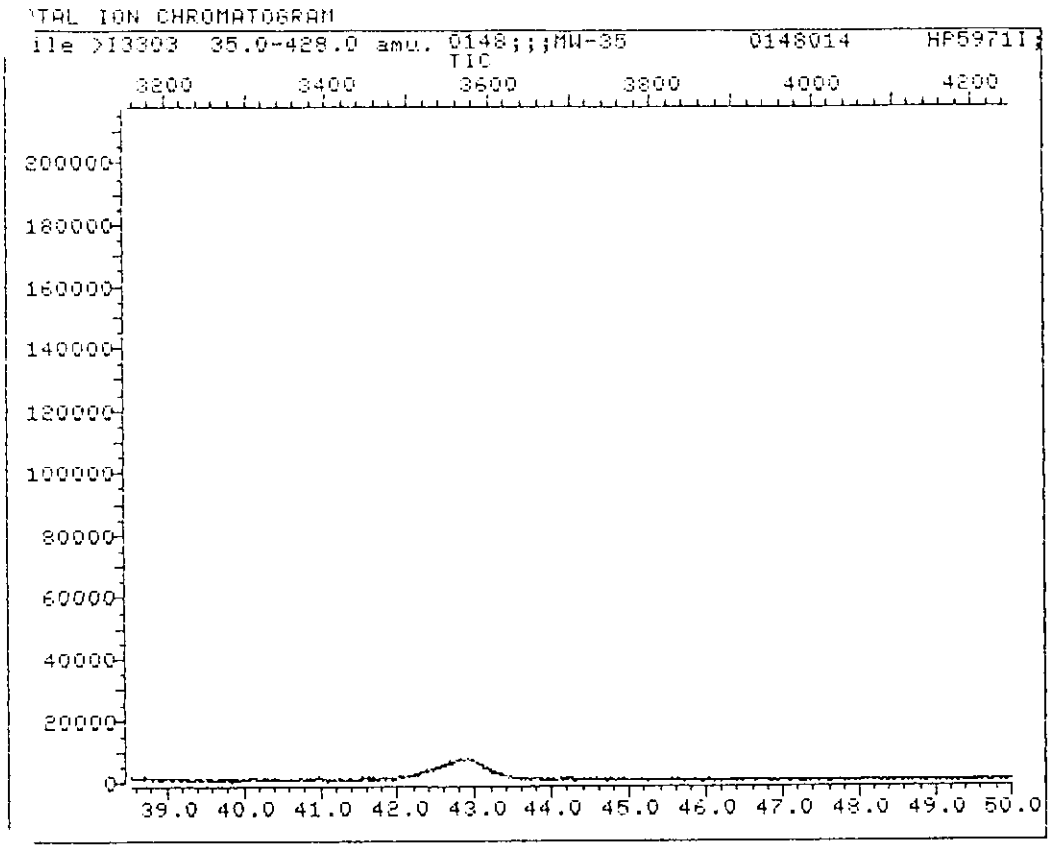
Operator ID: USER1
Quant Time : 930222 17:29
Injected at: 930219 11:39



Data File: >I3303::A5 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:29
Injected at: 930219 11:39

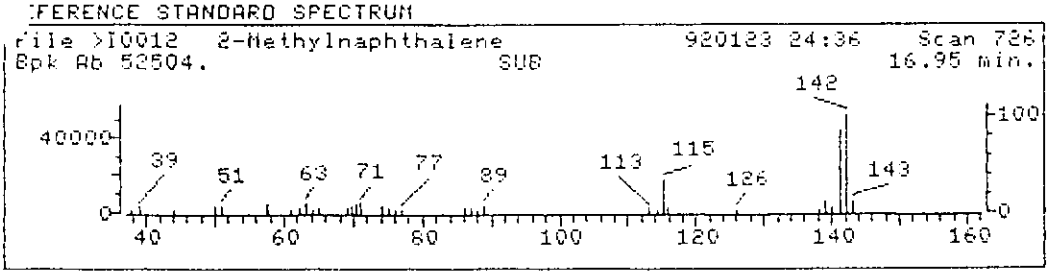


Data File: >I3303::A5 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02

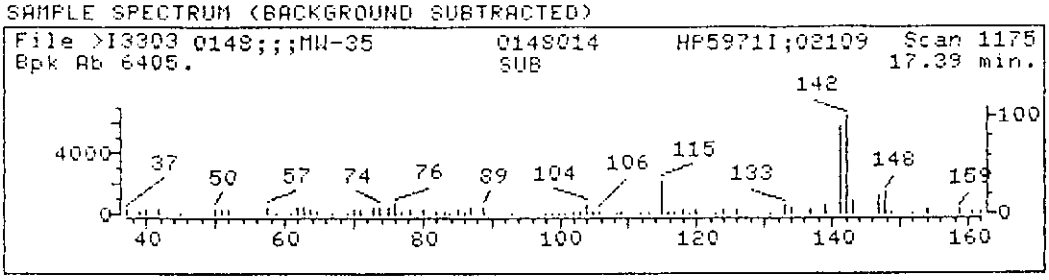
Id File: I_IFI::A5
Title: IF8-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:29
Injected at: 930219 11:39

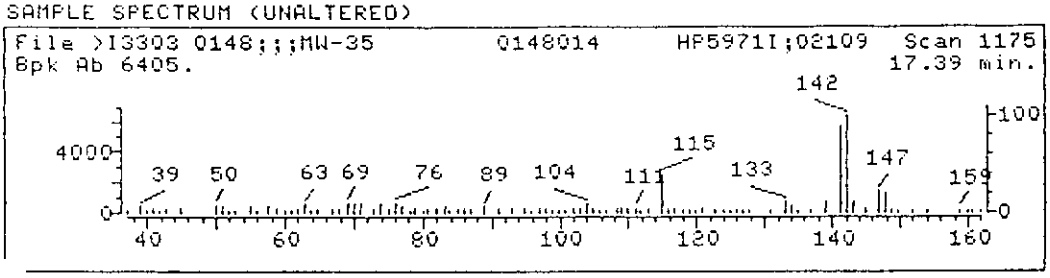
:FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



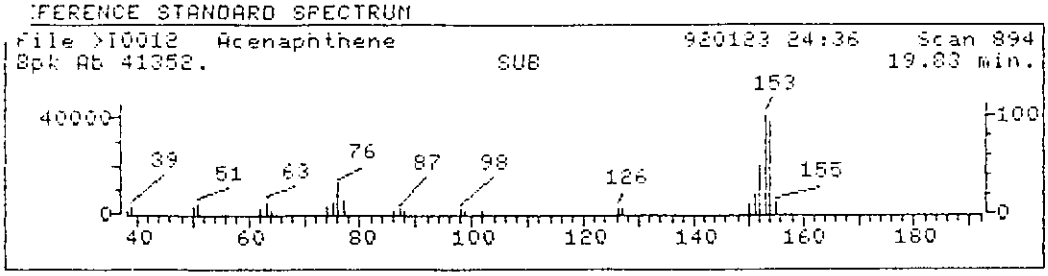
SAMPLE SPECTRUM (UNALTERED)



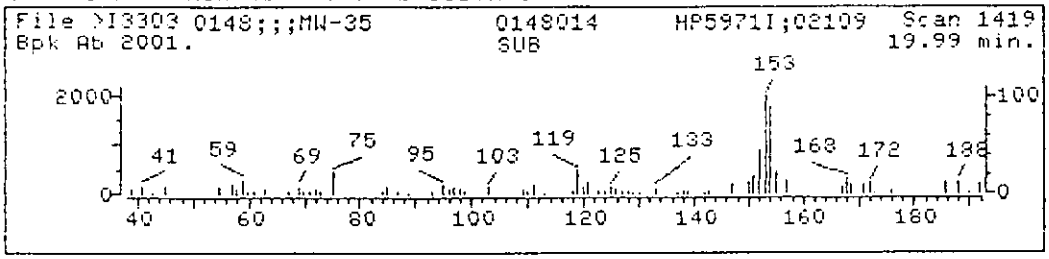
Data File: >I3303::A2 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 12:43 Quant ID File: I_IFI::A5
Injected at: 930219 11:39 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 30
Compound Name : 2-Methylnaphthalene
Scan Number : 1175
Retention Time: 17.39 min.
Quant Ion : 141.9
Area : 15844
Concentration : 4.73 ug
q-value : 95

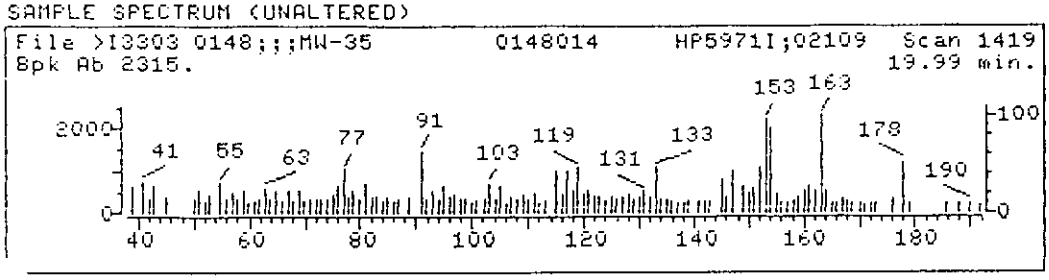
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

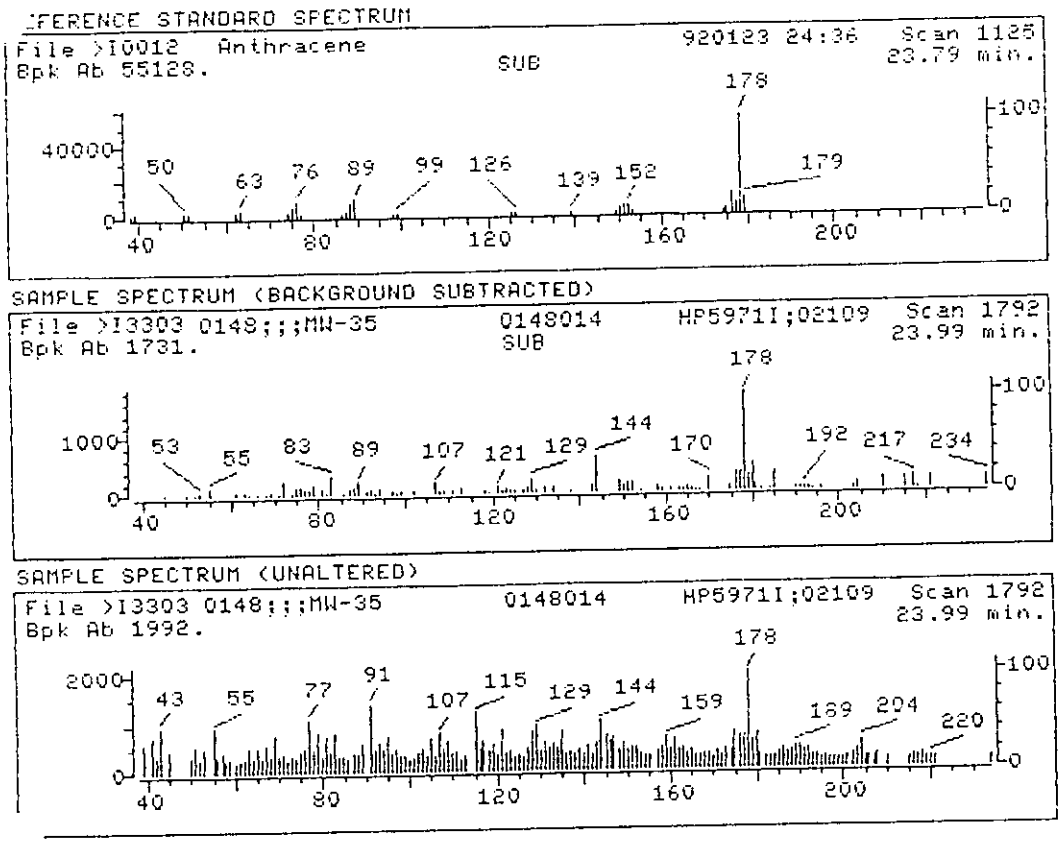


SAMPLE SPECTRUM (UNALTERED)



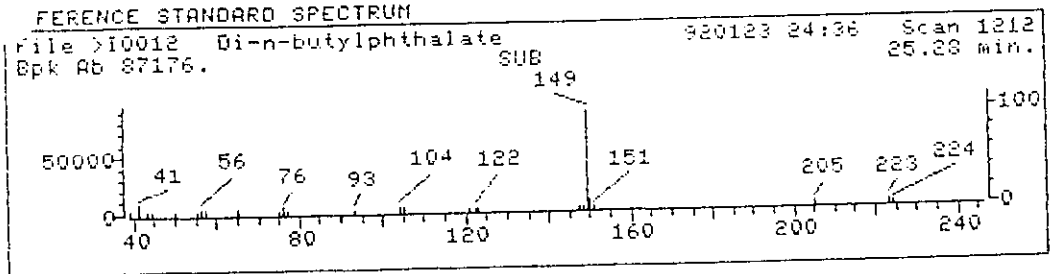
Data File: >I3303::A2 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 12:43 Quant ID File: I_IFI::A5
Injected at: 930219 11:39 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

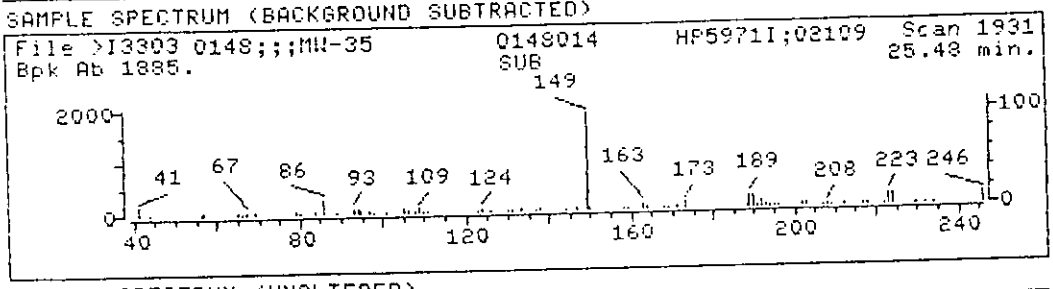
Compound No : 42
Compound Name : Acenaphthene
Scan Number : 1419
Retention Time: 19.99 min.
Quant Ion : 152.9
Area : 5152
Concentration : 2.20 ug
q-value : 95

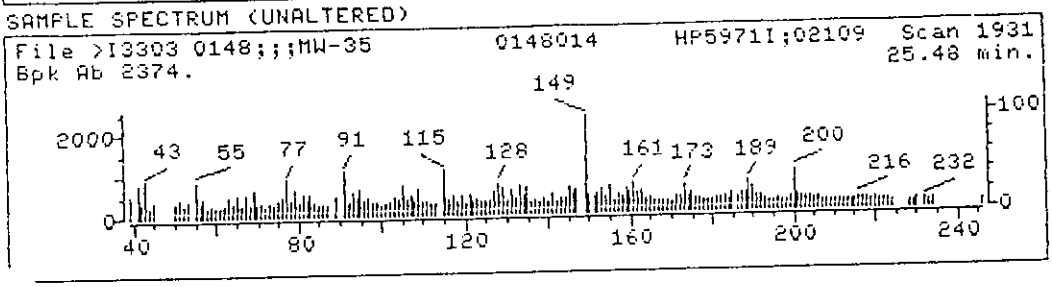


Data File: >I3303::A2 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 12:43 Quant ID File: I_IFI::A5
Injected at: 930219 11:39 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 60
Compound Name : Anthracene
Scan Number : 1792
Retention Time: 23.99 min.
Quant Ion : 177.9
Area : 4876
Concentration : 1.27 ug
q-value : 97

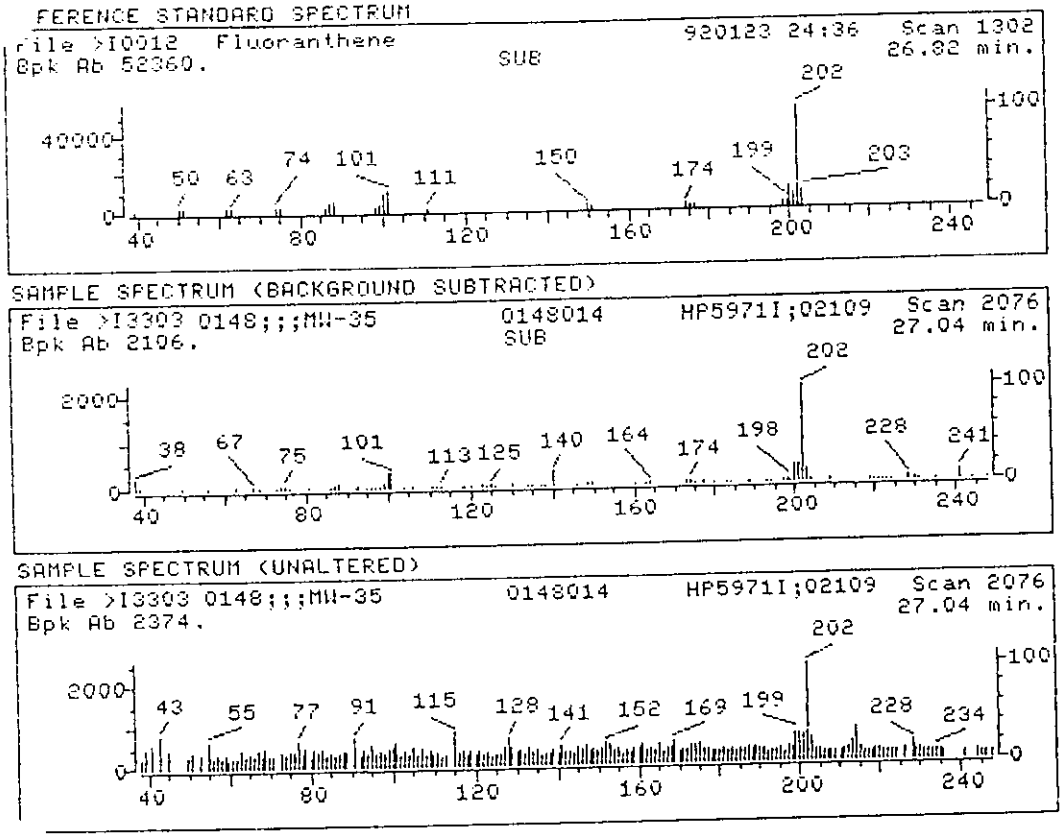






Data File: >I3303::A2 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 12:43 Quant ID File: I_IF1::A5
Injected at: 930219 11:39 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

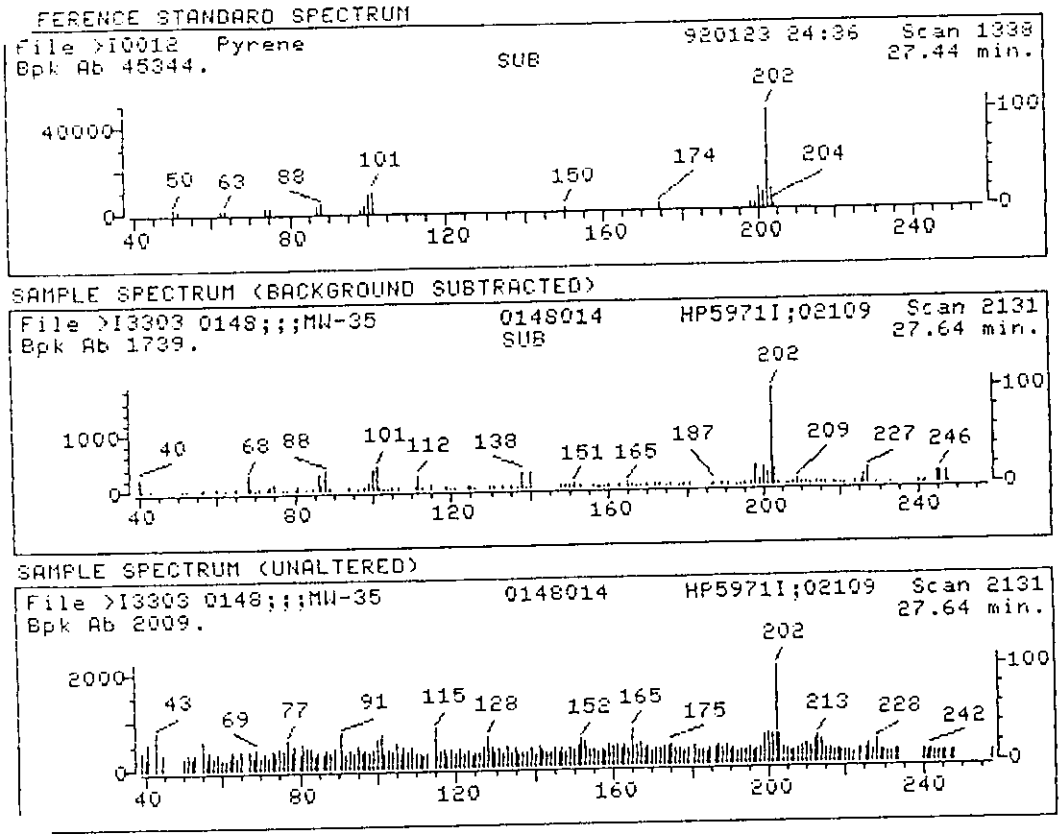
Compound No : 61
Compound Name : Di-n-butylphthalate
Scan Number : 1931
Retention Time: 25.48 min.
Quant Ion : 148.8
Area : 4342
Concentration : .844 ug
q-value : 95



Data File: >I3303::A2
Name: 0148;;;MW-35
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 12:43
Injected at: 930219 11:39
Last Qcal Time: 930219 10:28

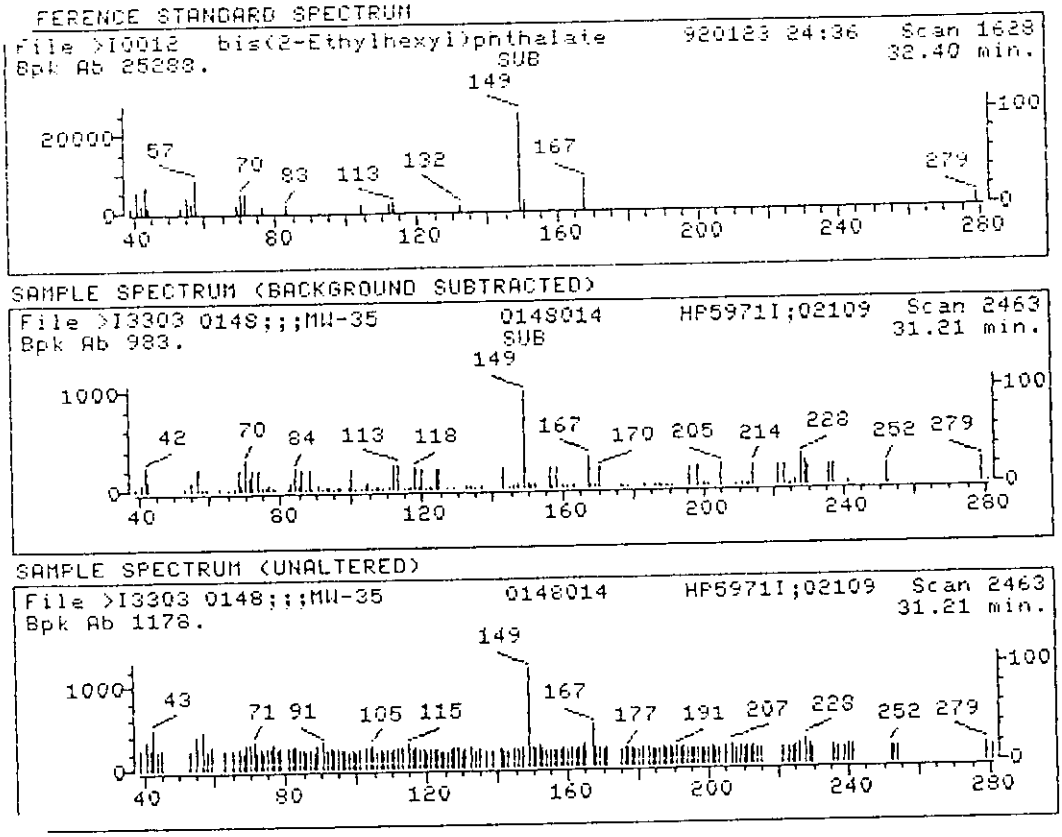
Quant Output File: ^I3303::A6
Instrument ID: **MSD
Quant ID File: I_IFI::A5
Last Calibration: 910116 11:52

Compound No : 62
Compound Name : Fluoranthene
Scan Number : 2076
Retention Time: 27.04 min.
Quant Ion : 201.9
Area : 5852
Concentration : 1.40 ug
q-value : 93



Data File: >I3303::A2 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 12:43 Quant ID File: I_IFI::A5
Injected at: 930219 11:39 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 64
Compound Name : Pyrene
Scan Number : 2131
Retention Time: 27.64 min.
Quant Ion : 201.9
Area : 4795
Concentration : .867 ug
q-value : 98



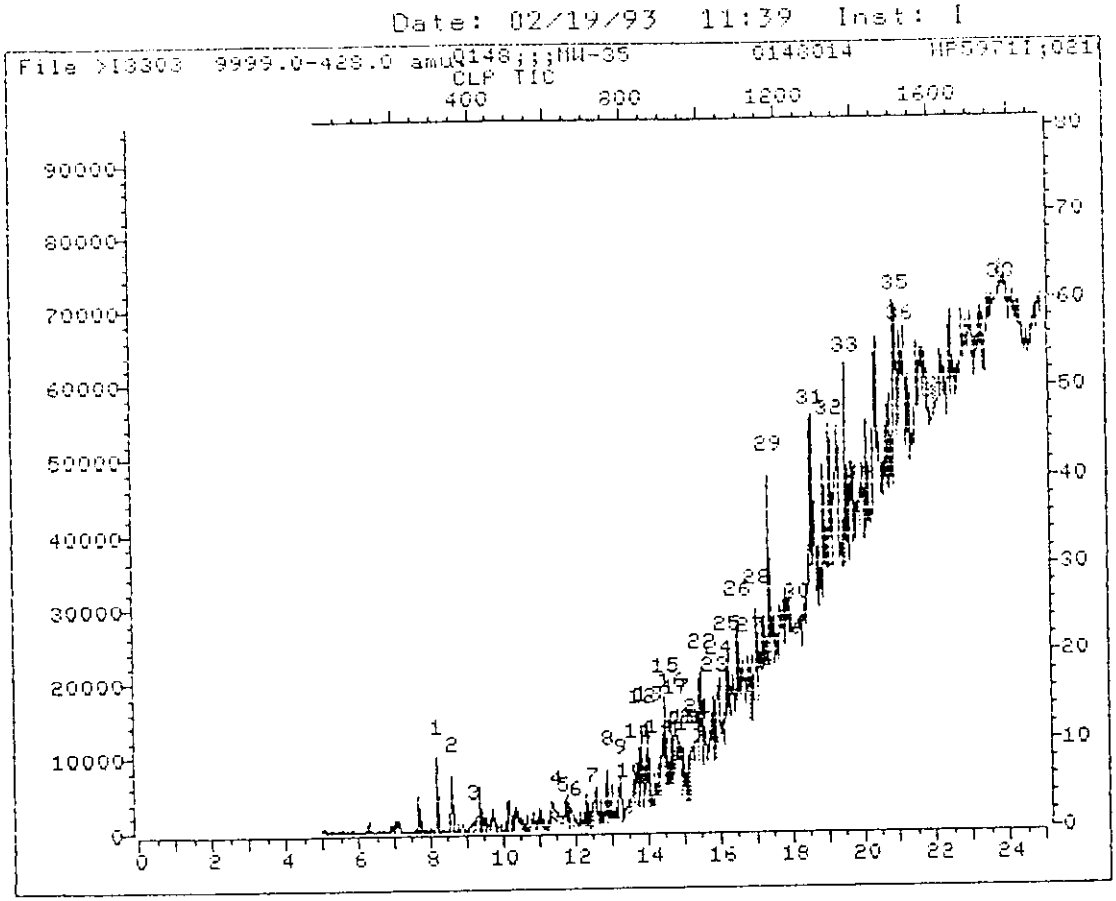
Data File: >I3303::A2 Quant Output File: ^I3303::A6
Name: 0148;;;MW-35 Instrument ID: **MSD
Misc: 0148014 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 12:43 Quant ID File: I_IFI::A5
Injected at: 930219 11:39 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

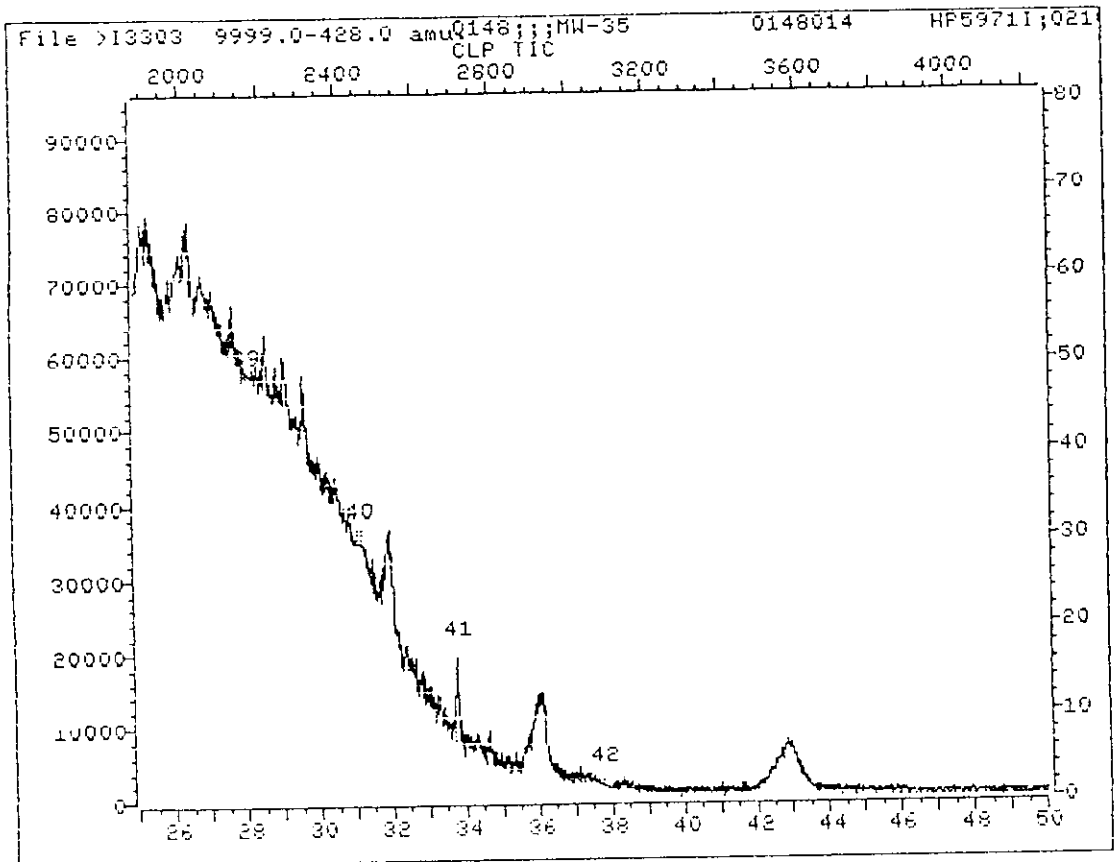
Compound No : 70
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 2463
Retention Time: 31.21 min.
Quant Ion : 148.8
Area : 2673
Concentration : .679 ug
q-value : 85

data file header from : >I3303::A2

Sample: 0148;;;MW-35 Operator: USER1 2/19/93 11:39
Misc : 0148014 HP5971I;021093;021193;LLW;1;;;I02
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0


Date: 02/19/93 11:39 Inst: 1
File >I3303 9999.0-428.0 amuQ148;;;MW-35 0148014 HP5971I;021
CLP TIC


File >I3303 9999.0-428.0 amuQ148;;;MW-35 0148014 HP5971I;021
CLP TIC

MW-35
HP5971I 0491

Date: 02/19/93 11:39 Inst: I

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
33.	19.53	78283.	6.	3.	.50
35.	20.94	70098.	5.	3.	.50
31.	18.56	50771.	4.	3.	.50
32.	19.10	55581.	4.	3.	.50
24.	15.98	42931.	4.	2.	.50
28.	17.02	41057.	4.	2.	.50
19.	15.15	39802.	3.	2.	.50
21.	15.38	35770.	3.	2.	.50
1.	8.16	24607.	3.	1.	.50
8.	12.84	18583.	3.	1.	.50
9.	13.23	19152.	3.	1.	.50
13.	13.99	30094.	3.	2.	.50
15.	14.51	34284.	3.	2.	.50
16.	14.65	30670.	3.	2.	.50
36.	21.06	42074.	3.	3.	.50
41.	33.78	45516.	3.	5.	.50
23.	15.85	25634.	2.	2.	.50
17.	14.76	27891.	2.	2.	.50
26.	16.50	26988.	2.	2.	.50
12.	13.81	23670.	2.	2.	.50
2.	8.57	16888.	2.	1.	.50

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	11.99	145230.	0.00	13.62	5.5
NAPHTHALENE-D8	15.25	230527.	13.62	17.58	2.4
ACENAPHTHENE-D10	19.91	257548.	17.58	21.87	5.6
PHENANTHRENE-D10	23.83	216290.	21.87	27.47	2.7
CHRYSENE-D12	31.12	262292.	27.47	34.45	3.0
PERYLENE-D12	37.78	162463.	34.45	37.78	1.9

ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	22
Target peaks matched:	1
Total TIC identified:	21

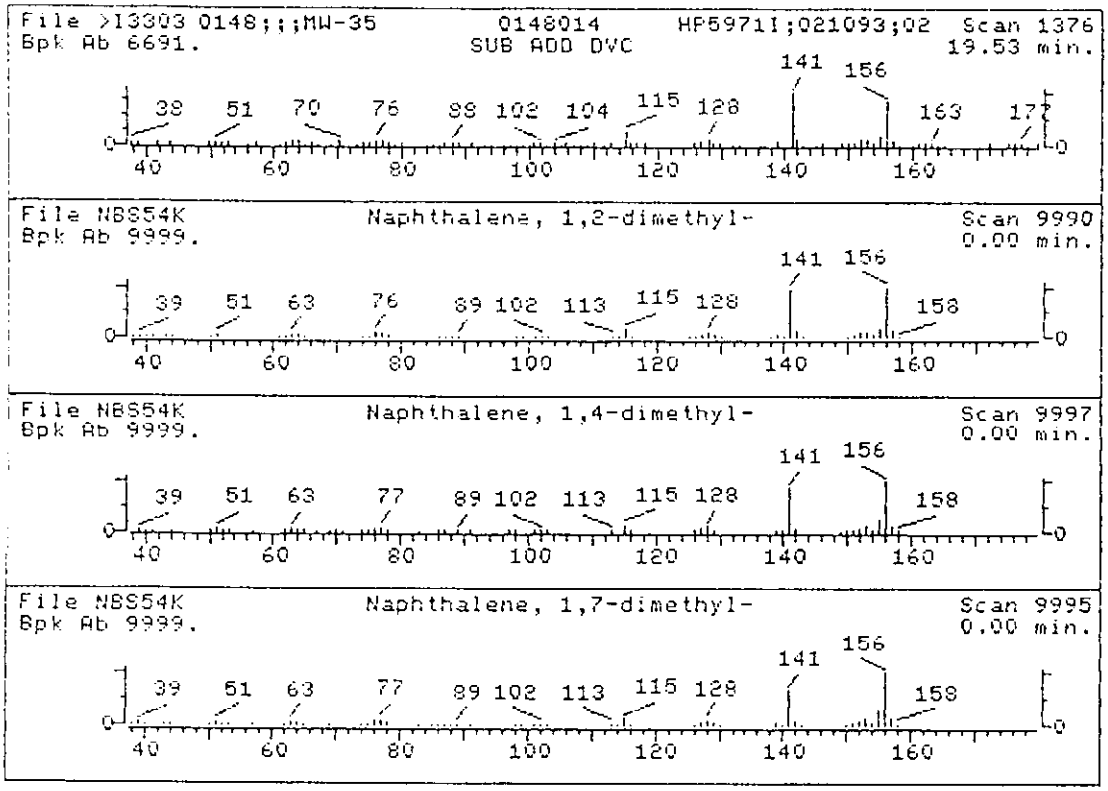
TICS : 2:33 PM MON., 22 FEB., 1993

.	Naphthalene, 1,2-dimethyl-	156	C12H12
.	Naphthalene, 1,4-dimethyl-	156	C12H12
3.	Naphthalene, 1,7-dimethyl-	156	C12H12
4.	Naphthalene, 2,3-dimethyl-	156	C12H12
5.	Naphthalene, 1,8-dimethyl-	156	C12H12

Sample file: >I3303 Spectrum #: 1376
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	92*	573988	21692	NBS54K	83	30	0	0	68	27	57	95
2.	91*	571584	21699	NBS54K	75	33	0	0	62	29	57	93
3.	75*	575371	21697	NBS54K	78	30	1	0	74	31	32	76
4.	75*	581408	21691	NBS54K	63	43	0	0	56	33	32	76
5.	71*	569415	21694	NBS54K	73	37	1	0	67	31	32	72

Peak#: 33 Area: 78283. Est Conc: 6. Date: 02/19/93 11:39 Inst: I

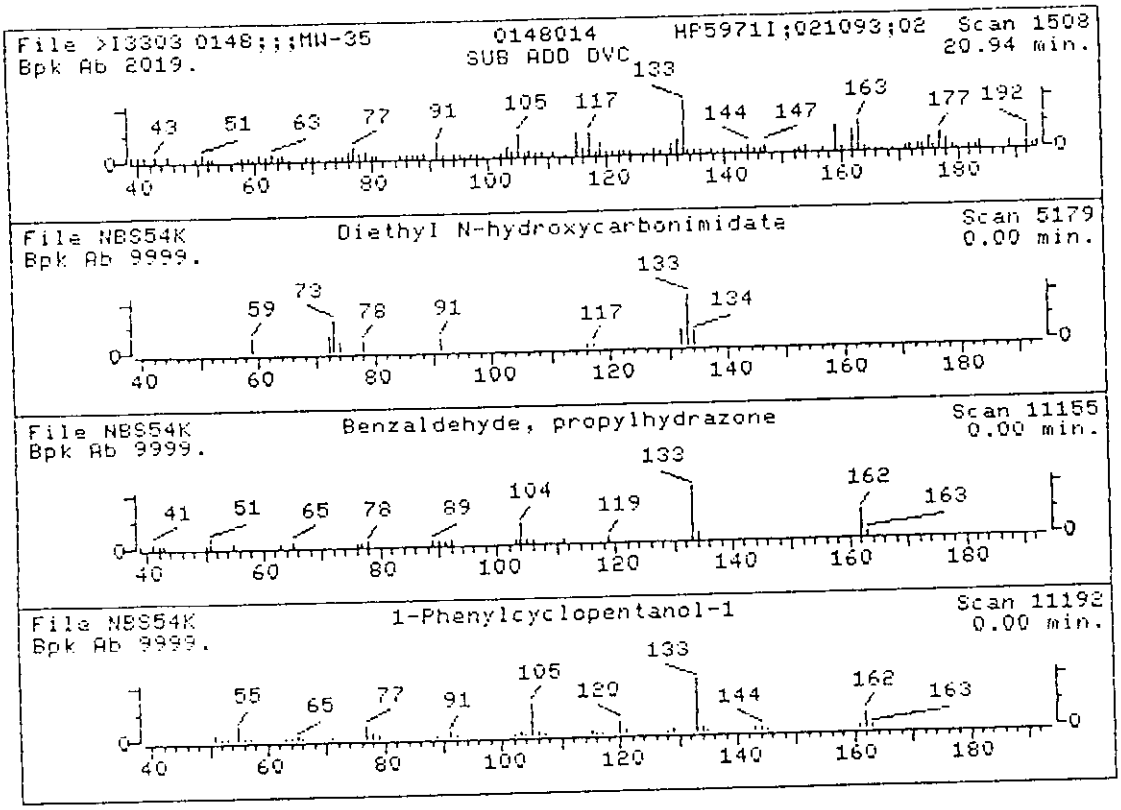


. Diethyl N-hydroxycarbonimidate — 133 C5H11NO3
2. Benzaldehyde, propylhydrazone — 162 C10H14N2
3. 1-Phenylcyclopentanol-1 — 162 C11H14O

Sample file: >13303 Spectrum #: 1508
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11*	24770465	16942	NBS54K	23	61	2	0	81	64	2	13
2.	11*	22162272	22794	NBS54K	31	71	2	0	72	62	2	14
3.	11*	10487964	16983	NBS54K	23	77	2	0	70	63	2	13

Peak#: 35 Area: 70098. Est Conc: 5. Date: 02/19/93 11:39 Inst: I

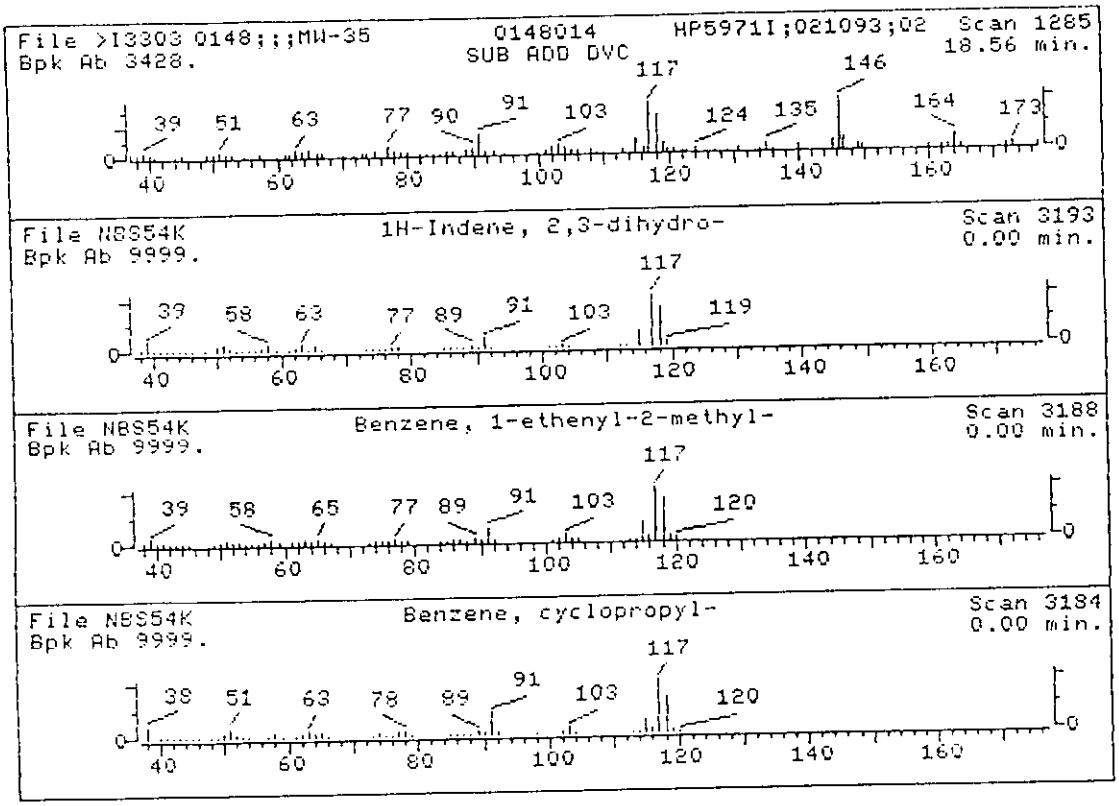


. 1H-Indene, 2,3-dihydro-	118	C9H10
. Benzene, 1-ethenyl-2-methyl-	118	C9H10
3. Benzene, cyclopropyl-	118	C9H10
4. Benzene, 2-propenyl-	118	C9H10
5. Benzene, 1-ethenyl-3-methyl-	118	C9H10

Sample file: >13303 Spectrum #: 1285
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	35*	496117	14051	NBS54K	55	43	2	0	77	50	11	32
2.	35*	611154	14047	NBS54K	47	46	1	0	77	50	11	32
3.	34*	873494	14043	NBS54K	59	51	1	0	64	51	10	53
4.	30*	300572	14045	NBS54K	48	49	2	0	72	50	10	23
5.	30*	100801	14050	NBS54K	38	58	1	0	71	50	10	21

Peak#: 31 Area: 50771. Est Conc: 4. Date: 02/19/93 11:39 Inst: I

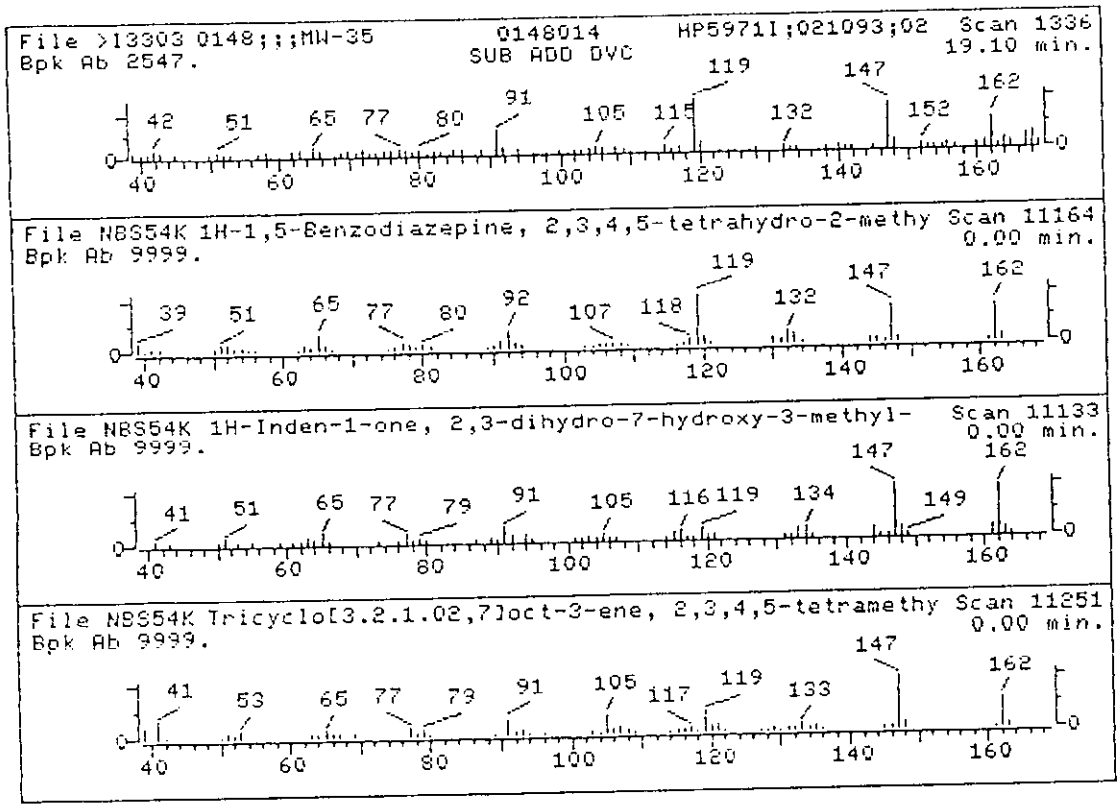


1.	1H-1,5-Benzodiazepine, 2,3,4,5-tetrahydro-2-methyl-	162	C10H14N2
2.	1H-Inden-1-one, 2,3-dihydro-7-hydroxy-3-methyl-	162	C10H10O2
3.	Tricyclo[3.2.1.02,7]oct-3-ene, 2,3,4,5-tetramethyl-	162	C12H18
4.	1,2,3,4-Tetrahydro-2,3-dimethylquinoxaline	162	C10H14N2
5.	Pyrido[3,2-d]pyrimidin-4-ol	147	C7H5N3O

Sample file: >I3303 Spectrum #: 1336
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36*	40358347	22798	NBS54K	37	92	3	0	80	27	14	13
2.	25*	40513506	22777	NBS54K	41	77	3	0	61	48	7	13
3.	25*	62338447	22831	NBS54K	38	75	3	0	88	48	7	13
4.	25*	13311778	22792	NBS54K	31	76	2	0	88	50	7	14
5.	25*	37538673	19930	NBS54K	32	85	3	0	88	41	8	13

Peak#: 32 Area: 55581. Est Conc: 4. Date: 02/19/93 11:39 Inst: I



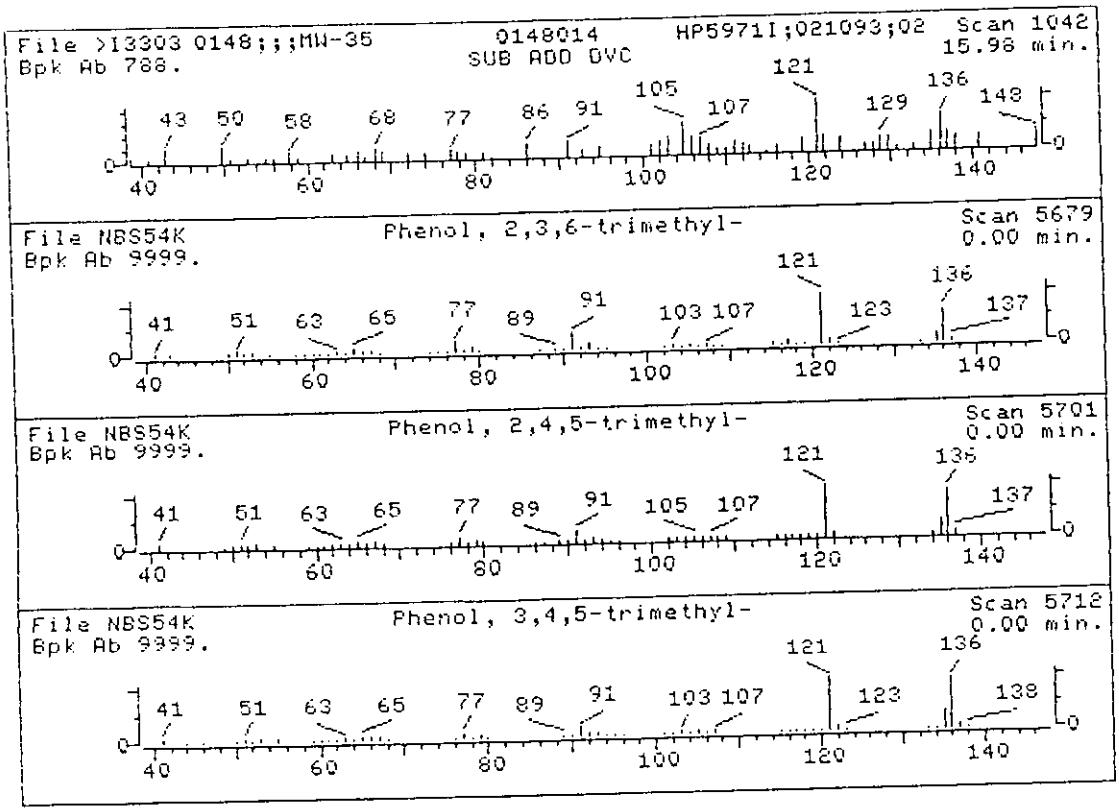
1. Phenol, 2,3,6-trimethyl-	136	C9H12O
Phenol, 2,4,5-trimethyl-	136	C9H12O
. Phenol, 3,4,5-trimethyl-	136	C9H12O
4. Cyclohexene, 1-methyl-3-(1-methylethenyl)-, (.+-.)- (9CI)	136	C10H16
5. Phenol, 2,4,6-trimethyl-	136	C9H12O

0496

Sample file: >13303 Spectrum #: 1042
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	2416946	17576	NBS54K	45	58	2	0	71	55	5	16
2.	20*	496786	17589	NBS54K	34	63	2	0	75	55	5	14
3.	20*	527548	17596	NBS54K	34	64	2	0	68	55	5	14
4.	20*	499036	17621	NBS54K	45	78	3	0	75	55	5	13
5.	20*	527606	17604	NBS54K	32	70	2	0	68	55	5	14

Peak#: 24 Area: 42931. Est Conc: 4. Date: 02/19/93 11:39 Inst: I

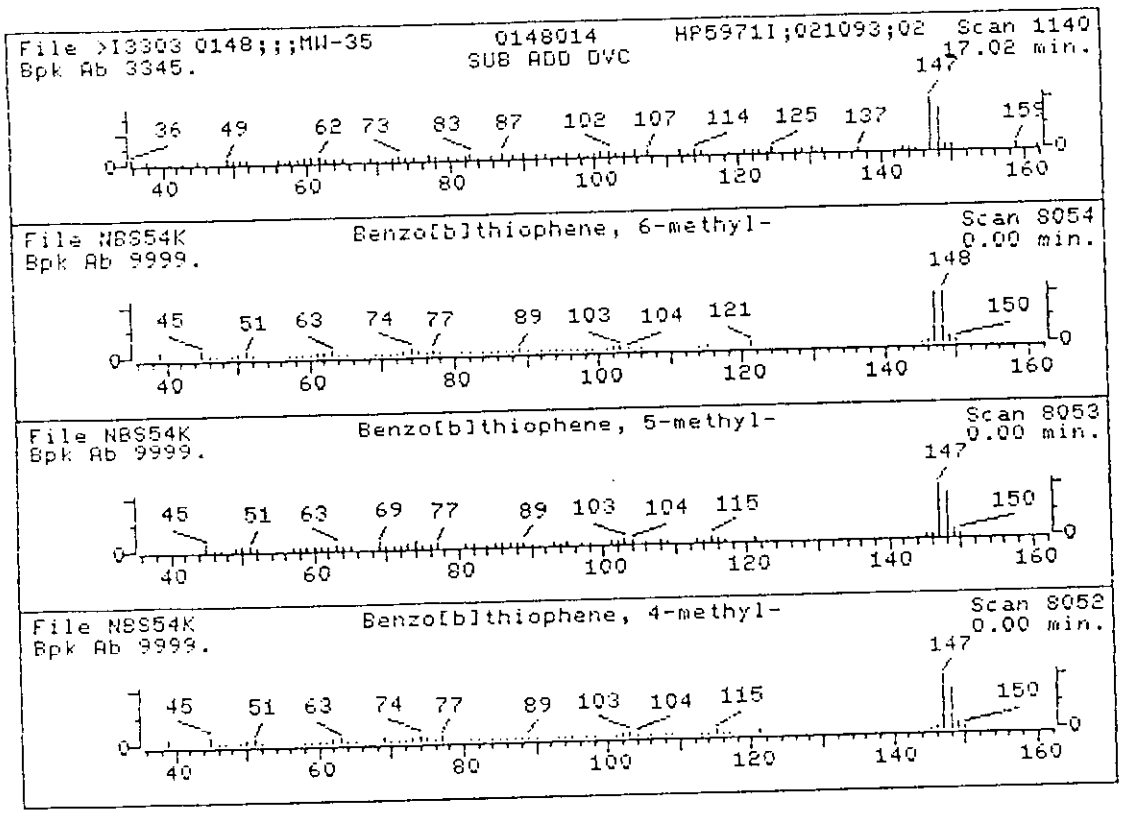


. Benzo[b]thiophene, 6-methyl-	148	C9H8S
. Benzo[b]thiophene, 5-methyl-	148	C9H8S
3. Benzo[b]thiophene, 4-methyl-	148	C9H8S
4. Pyridine, 4-(1-pyrrolidinyl)-	148	C9H12N2
5. Benzaldehyde, 2,4,5-trimethyl-	148	C10H12O

Sample file: >I3303 Spectrum #: 1140
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76*	16587476	20108	NBS54K	51	47	2	0	81	10	45	26
2.	67*	14315141	20107	NBS54K	51	47	2	0	97	12	34	26
3.	60*	14315118	20106	NBS54K	38	60	2	0	100	12	30	15
4.	52*	2456817	20112	NBS54K	30	81	3	0	98	17	20	13
5.	52*	5779726	20117	NBS54K	25	76	3	0	100	17	20	13

Peak#: 28 Area: 41057. Est Conc: 4. Date: 02/19/93 11:39 Inst: I



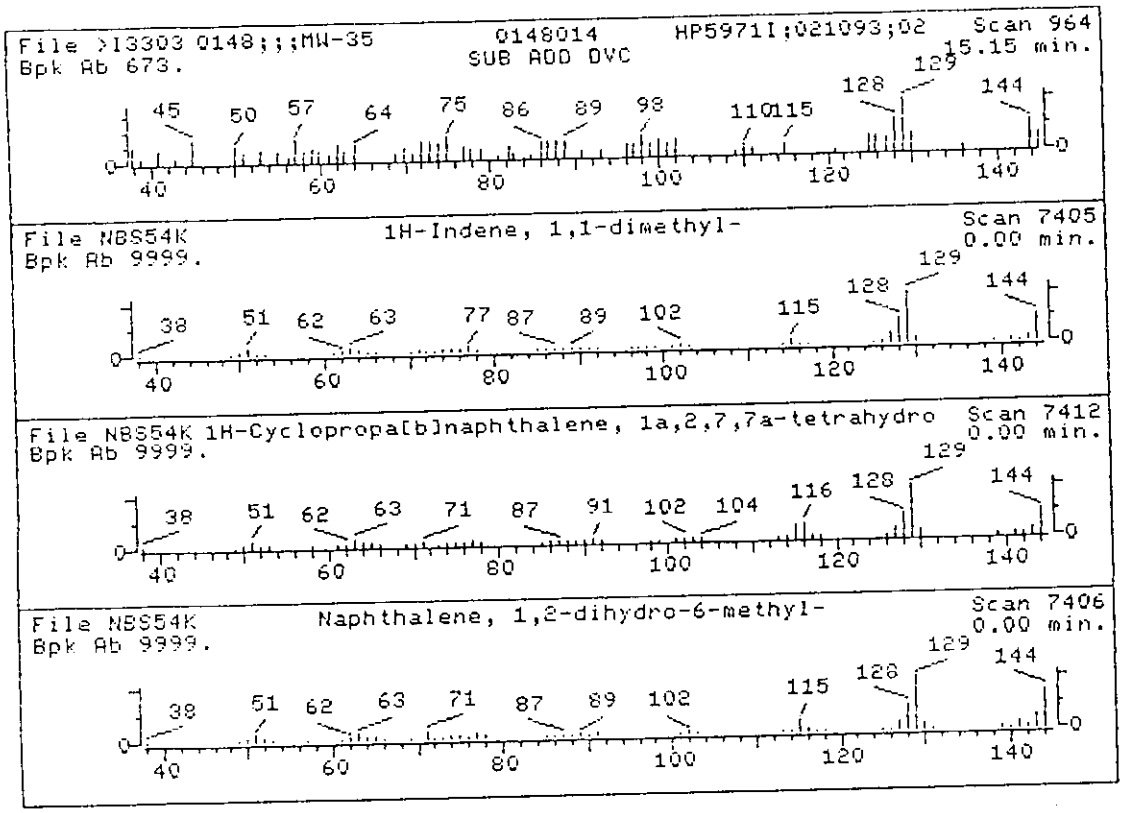
. 1H-Indene, 1,1-dimethyl-	144	C11H12
. 1H-Cyclopropa[b]naphthalene, 1a,2,7,7a-tetrahydro-	144	C11H12
3. Naphthalene, 1,2-dihydro-6-methyl-	144	C11H12
4. [1,2]Azaborino[1,2-a][1,2]azaborine	129	C8H8BN
5. 3-Mercapto-5-ethyl-1,2,4-triazole	129	C4H7N3S

0498

Sample file: >13303 Spectrum #: 964
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	31*	18636550	19487	NBS54K	44	66	2	0	100	33	12	14
2.	27*	6571728	19490	NBS54K	35	77	3	0	100	40	10	13
3.	25*	2717477	19488	NBS54K	33	81	3	0	71	46	7	13
4.	20*	1425587	2513	NBS54K	34	90	3	0	100	51	5	13
5.	15*	7271456	16228	NBS54K	26	74	3	0	100	56	3	13

Peak#: 19 Area: 39802. Est Conc: 3. Date: 02/19/93 11:39 Inst: I

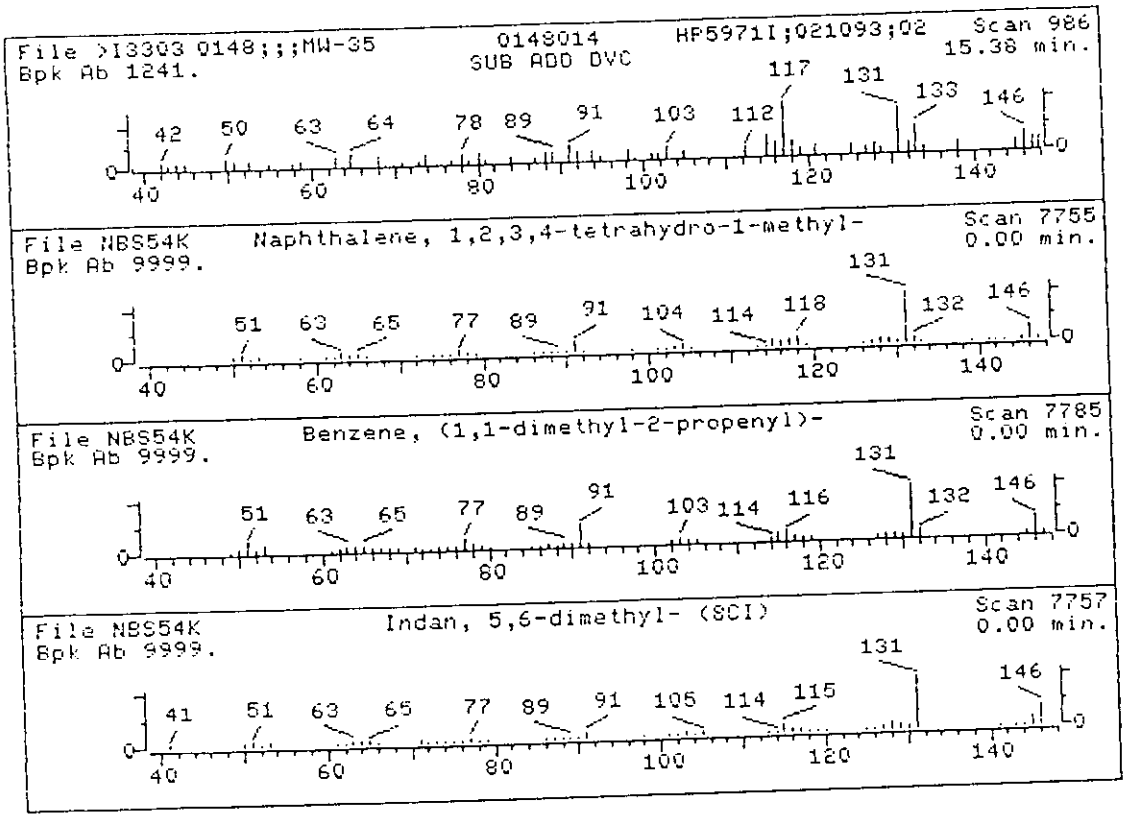


Naphthalene, 1,2,3,4-tetrahydro-1-methyl-	146	C11H14
2. Benzene, (1,1-dimethyl-2-propenyl)-	146	C11H14
3. Indan, 5,6-dimethyl- (8CI)	146	C11H14
4. 1H-Indene, 2,3-dihydro-1,2-dimethyl-	146	C11H14
5. Benzene, 1-pentenyl-	146	C11H14

Sample file: >13303 Spectrum #: 986
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	1559815	16600	NBS54K	36	68	1	0	76	54	5	19
2.	18*	18321363	16607	NBS54K	30	72	0	0	78	59	4	22
3.	15*	1079225	19773	NBS54K	40	63	0	0	63	64	3	41
4.	15*	17057828	16602	NBS54K	30	74	1	0	83	59	3	16
5.	15*	826186	13914	NBS54K	23	78	1	0	100	60	3	14

Peak#: 21 Area: 35770. Est Conc: 3. Date: 02/19/93 11:39 Inst: I



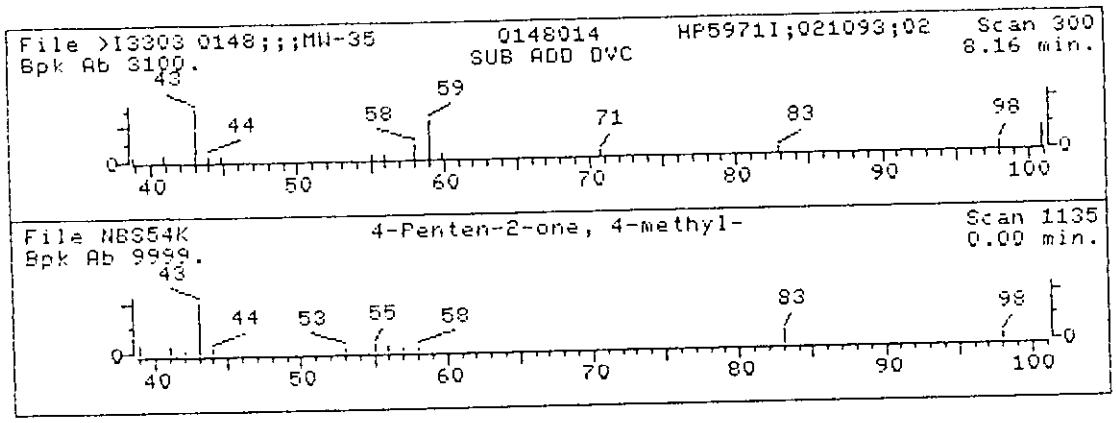
0500

. 4-Penten-2-one, 4-methyl- 98 C6H10O

Sample file: >I3303 Spectrum #: 300
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29*	3744023	9897	NBS54K	26	53	2	0	85	47	7	14

Peak#: 1 Area: 24607. Est Conc: 3. Date: 02/19/93 11:39 Inst: I

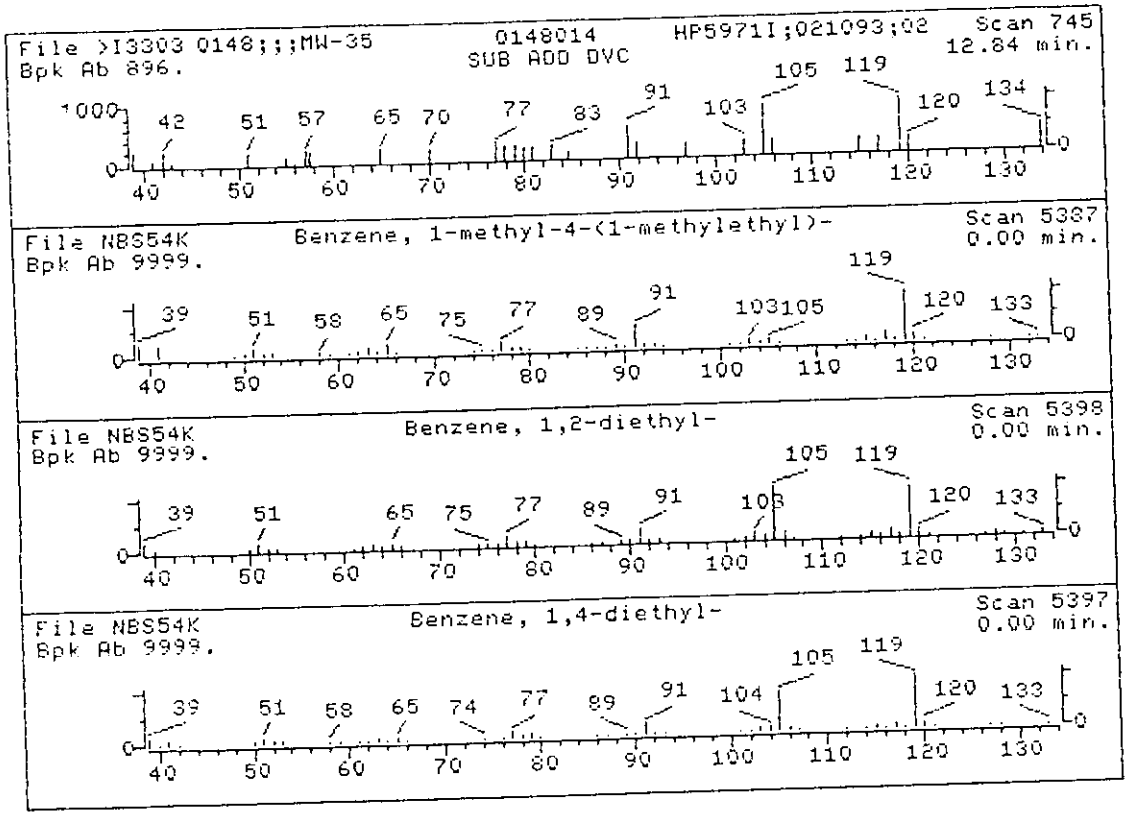


.	Benzene, 1-methyl-4-(1-methylethyl)-	134 C10H14
.	Benzene, 1,2-diethyl-	134 C10H14
3.	Benzene, 1,4-diethyl-	134 C10H14
4.	Benzene, 1,3-diethyl-	134 C10H14
5.	1,4-Cyclohexadiene, 3-ethenyl-1,2-dimethyl-	134 C10H14

Sample file: >I3303 Spectrum #: 745
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	28*	99876	14244	NBS54K	39	66	2	0	100	37	10	14
2.	26*	135013	17140	NBS54K	26	80	2	0	93	44	8	14
3.	25*	105055	17139	NBS54K	26	74	2	0	100	48	7	14
4.	25*	141935	17141	NBS54K	26	76	2	0	100	46	7	14
5.	25*	62338572	14241	NBS54K	25	84	3	0	73	48	7	13

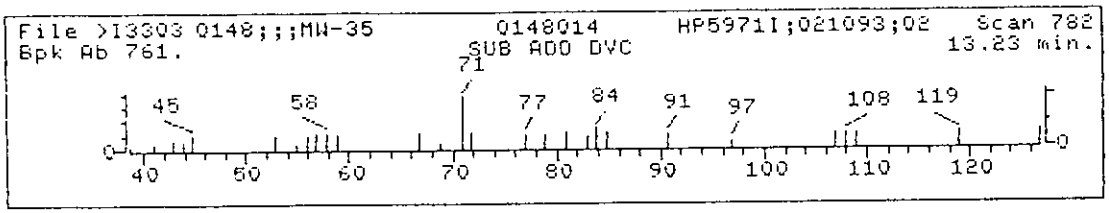
Peak#: 8 Area: 18583. Est Conc: 3. Date: 02/19/93 11:39 Inst: I



Sample file: >13303 Spectrum #: 782

No data base entries were retrieved.

Peak#: 9 Area: 19152. Est Conc: 3. Date: 02/19/93 11:39 Inst: 1

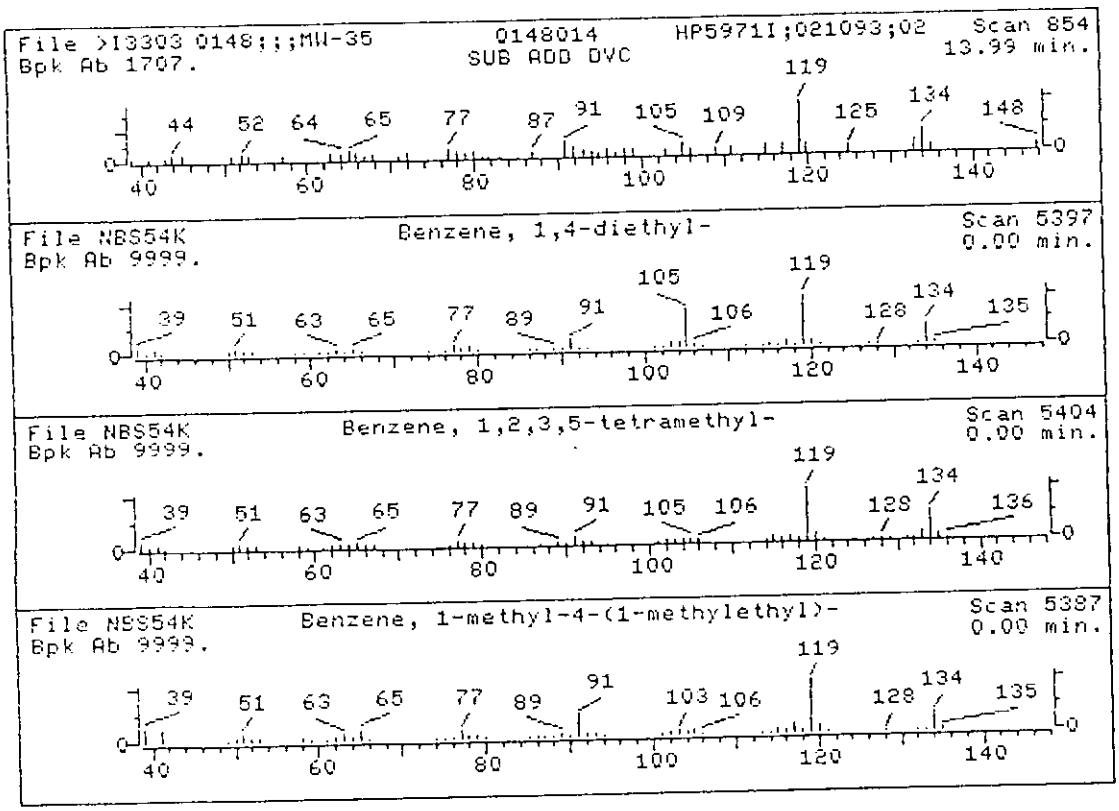


*.	Benzene, 1,4-diethyl-	134 C10H14
.	Benzene, 1,2,3,5-tetramethyl-	134 C10H14
3.	Benzene, 1-methyl-4-(1-methylethyl)-	134 C10H14
4.	Benzene, 1,2,4,5-tetramethyl-	134 C10H14
5.	Benzene, 1,2,3,4-tetramethyl-	134 C10H14

Sample file: >I3303 Spectrum #: 854
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	38*	105055	17139	NBS54K	51	49	2	0	100	36	14	25
2.	35*	527537	17143	NBS54K	25	68	0	0	77	35	12	18
3.	35*	99876	14244	NBS54K	58	47	2	0	67	47	11	35
4.	34*	95932	17144	NBS54K	31	71	1	0	76	32	12	17
5.	31*	488233	17133	NBS54K	25	69	2	0	82	35	12	14

Peak#: 13 Area: 30094. Est Conc: 3. Date: 02/19/93 11:39 Inst: I

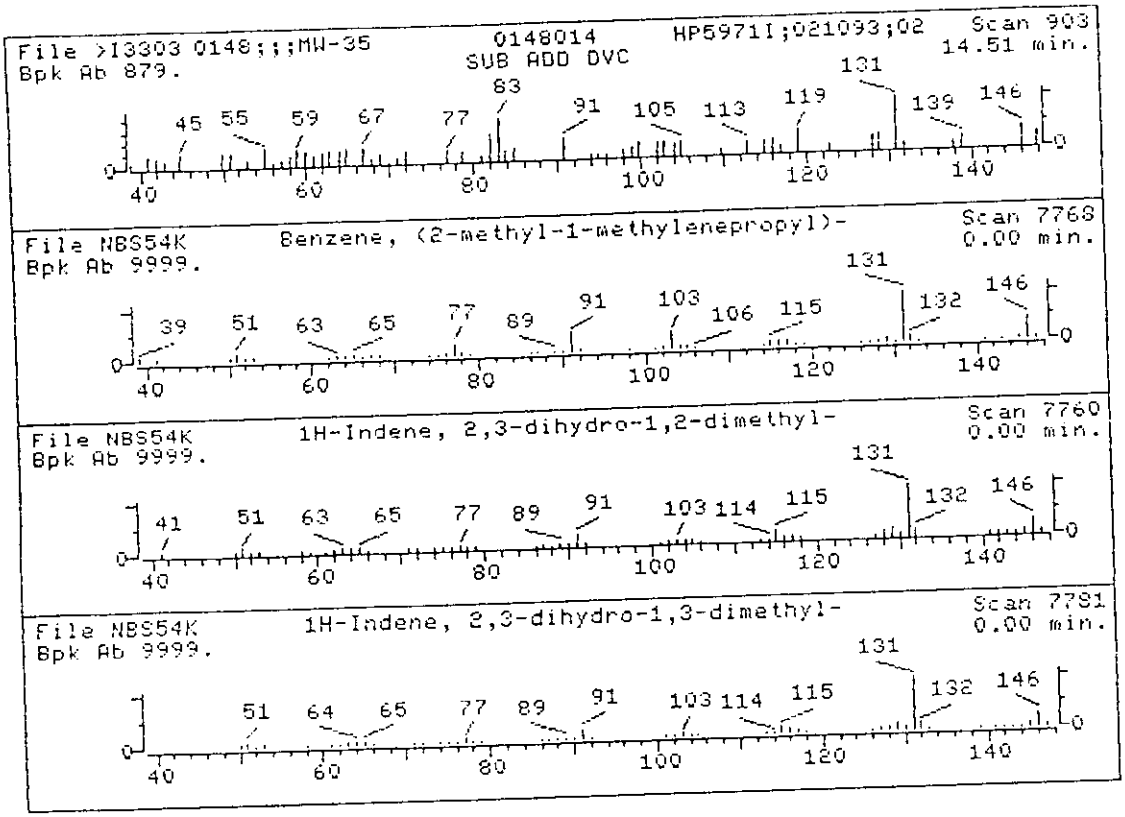


	Benzene, (2-methyl-1-methylenepropyl)-	146 C11H14
2.	1H-Indene, 2,3-dihydro-1,2-dimethyl-	146 C11H14
3.	1H-Indene, 2,3-dihydro-1,3-dimethyl-	146 C11H14
4.	Naphthalene, 1,2,3,4-tetrahydro-1-methyl-	146 C11H14
5.	Benzene, (1,1-dimethyl-2-propenyl)-	146 C11H14

Sample file: >I3303 Spectrum #: 903
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	20*	17498714	19777	NBS54K	42	65	2	0	69	55	5	14
2.	20*	17057828	16602	NBS54K	38	66	2	0	100	53	5	14
3.	20*	4175535	16606	NBS54K	31	70	2	0	100	55	5	14
4.	20*	1559815	16600	NBS54K	32	72	3	0	100	55	5	13
5.	20*	18321363	16607	NBS54K	31	71	2	0	100	51	5	14

Peak#: 15 Area: 34284. Est Conc: 3. Date: 02/19/93 11:39 Inst: I

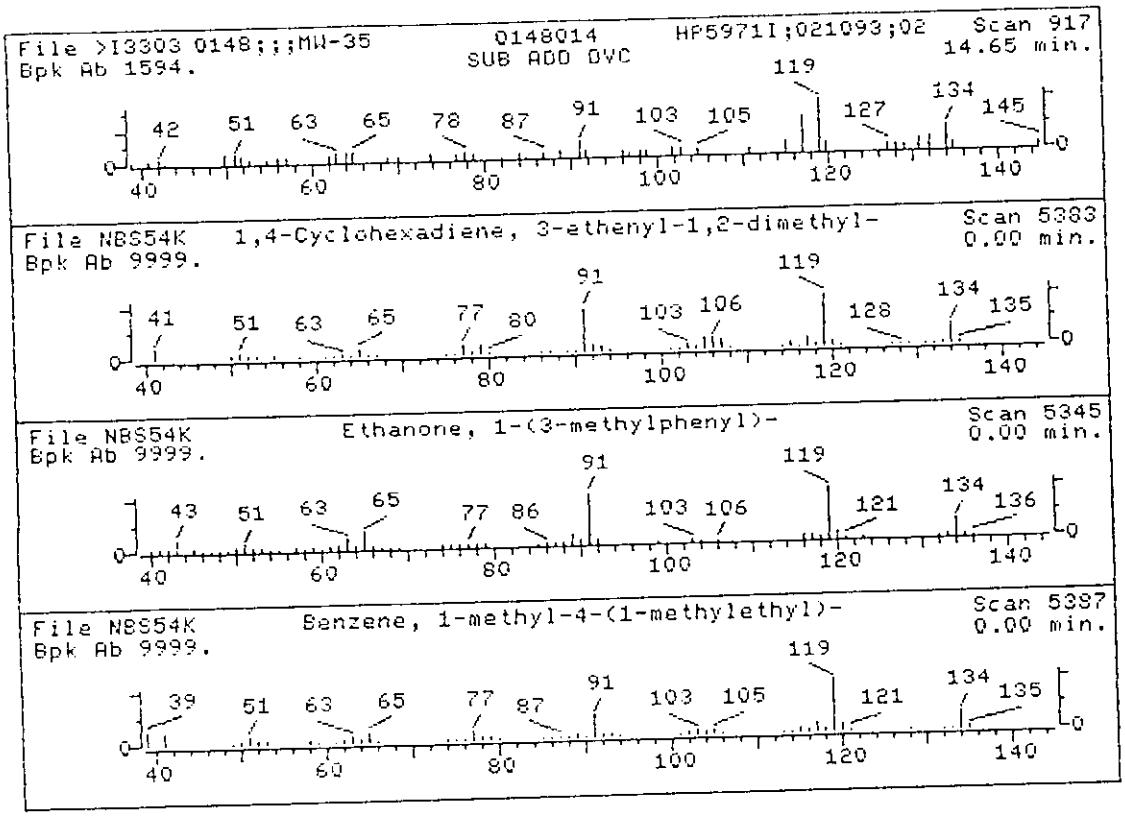


.	1,4-Cyclohexadiene, 3-ethenyl-1,2-dimethyl-	134 C10H14
.	Ethanone, 1-(3-methylphenyl)-	134 C9H10O
3.	Benzene, 1-methyl-4-(1-methylethyl)-	134 C10H14
4.	Benzene, 1,2,3,5-tetramethyl-	134 C10H14
5.	Benzene, 1,2,3,4-tetramethyl-	134 C10H14

Sample file: >I3303 Spectrum #: 917
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	62338572	14241	NBS54K	37	72	3	0	100	50	7	13
2.	25*	585740	14238	NBS54K	36	71	3	0	100	48	7	13
3.	25*	99876	14244	NBS54K	33	72	3	0	100	46	7	13
4.	25*	527537	17143	NBS54K	25	68	3	0	82	49	7	13
5.	25*	488233	17133	NBS54K	25	69	3	0	87	49	7	13

Peak#: 16 Area: 30670. Est Conc: 3. Date: 02/19/93 11:39 Inst: I

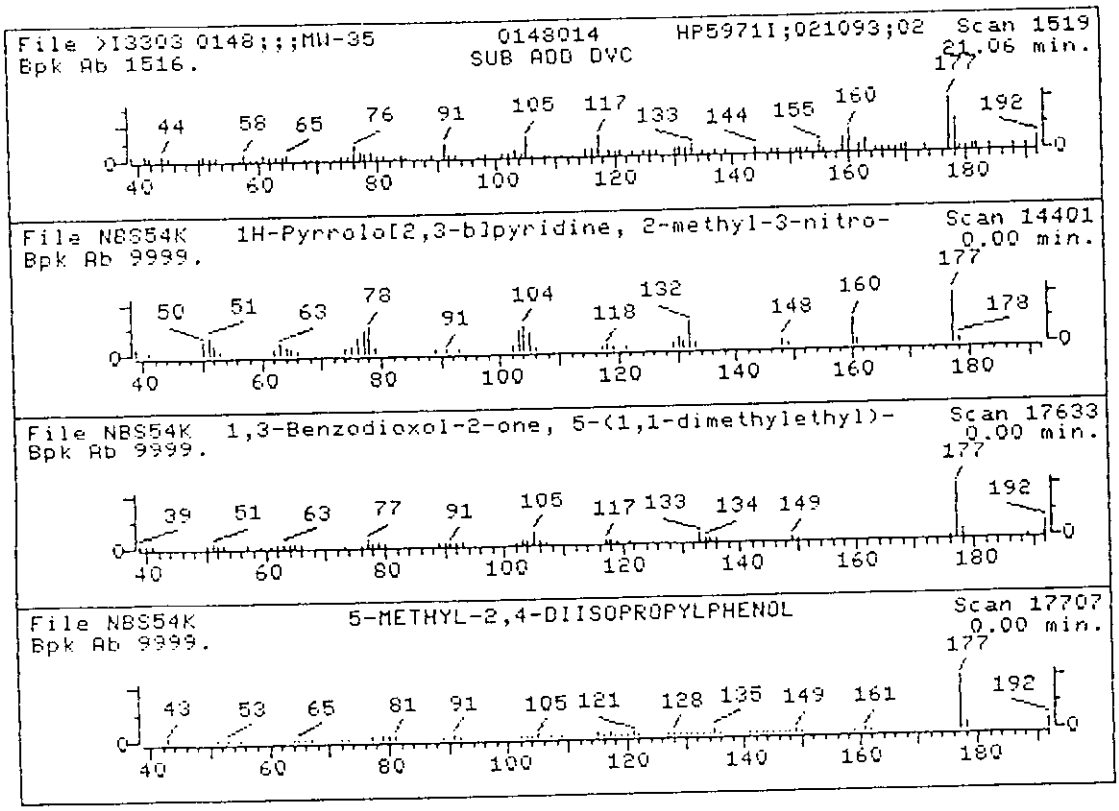


	1H-Pyrrolo[2,3-b]pyridine, 2-methyl-3-nitro-	177	C8H7N3O2
..	1,3-Benzodioxol-2-one, 5-(1,1-dimethylethyl)-	192	C11H12O3
3.	5-METHYL-2,4-DIISOPROPYLPHENOL	192	C13H20O
4.	Edulan ii	192	C13H20O
5.	2-Propanamine, N-[(3-nitrophenyl)methylene]-	192	C10H12N2O2

Sample file: >I3303 Spectrum #: 1519
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	25*	23616504	25510	NBS54K	25	115	3	0	80	45	8	13
2.	15*	54815213	25546	NBS54K	46	58	2	0	86	58	3	17
3.	15*	17707	25550	NBS54K	24	80	2	0	100	58	3	14
4.	15*	41678302	25556	NBS54K	23	107	3	0	100	56	3	12
5.	11*	27895803	25544	NBS54K	35	75	2	0	69	62	2	14

Peak#: 36 Area: 42074. Est Conc: 3. Date: 02/19/93 11:39 Inst: I

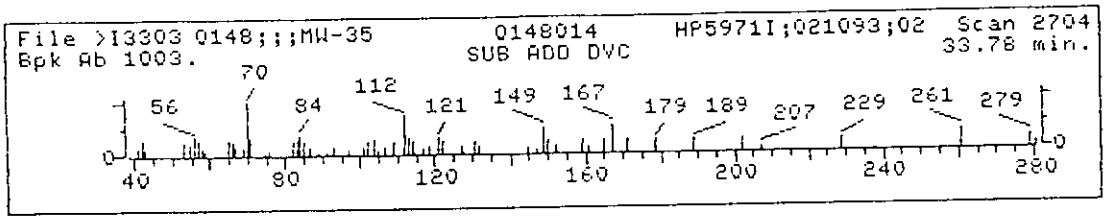


0507

Sample file: >I3303 Spectrum #: 2704

No data base entries were retrieved.

Peak#: 41 Area: 45516. Est Conc: 3. Date: 02/19/93 11:39 Inst: I

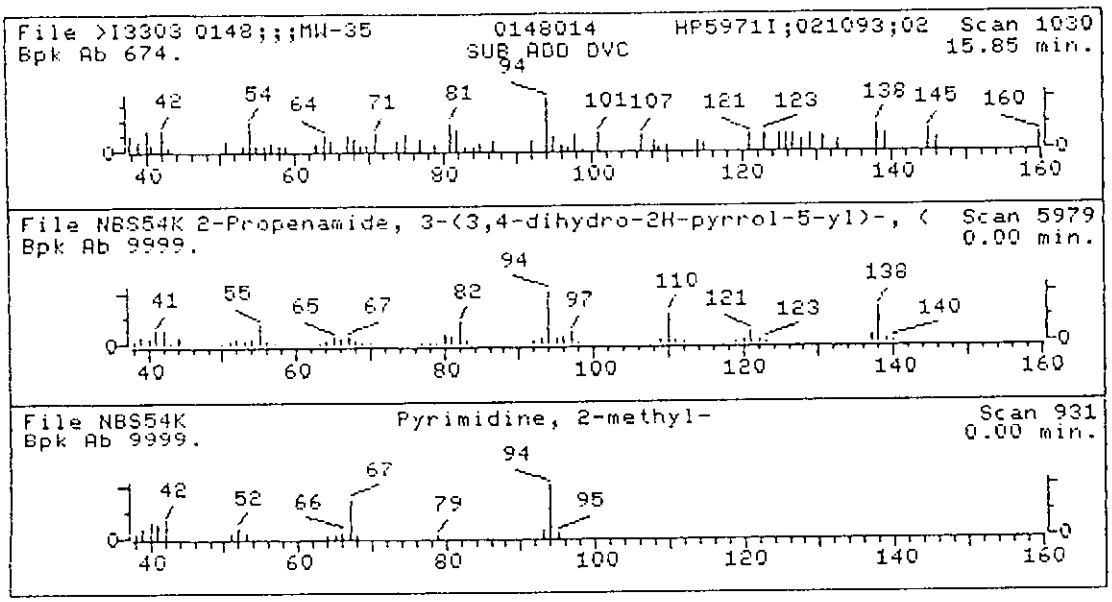


1. 2-Propenamide, 3-(3,4-dihydro-2H-pyrrol-5-yl)-, (E)- 138 C7H10N2O
2. Pyrimidine, 2-methyl- 94 C5H6N2

Sample file: >I3303 Spectrum #: 1030
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	35663855	18137	NBS54K	27	92	3	0	67	55	5	13
2.	11*	5053430	9122	NBS54K	34	66	3	0	100	64	2	13

Peak#: 23 Area: 25634. Est Conc: 2. Date: 02/19/93 11:39 Inst: I

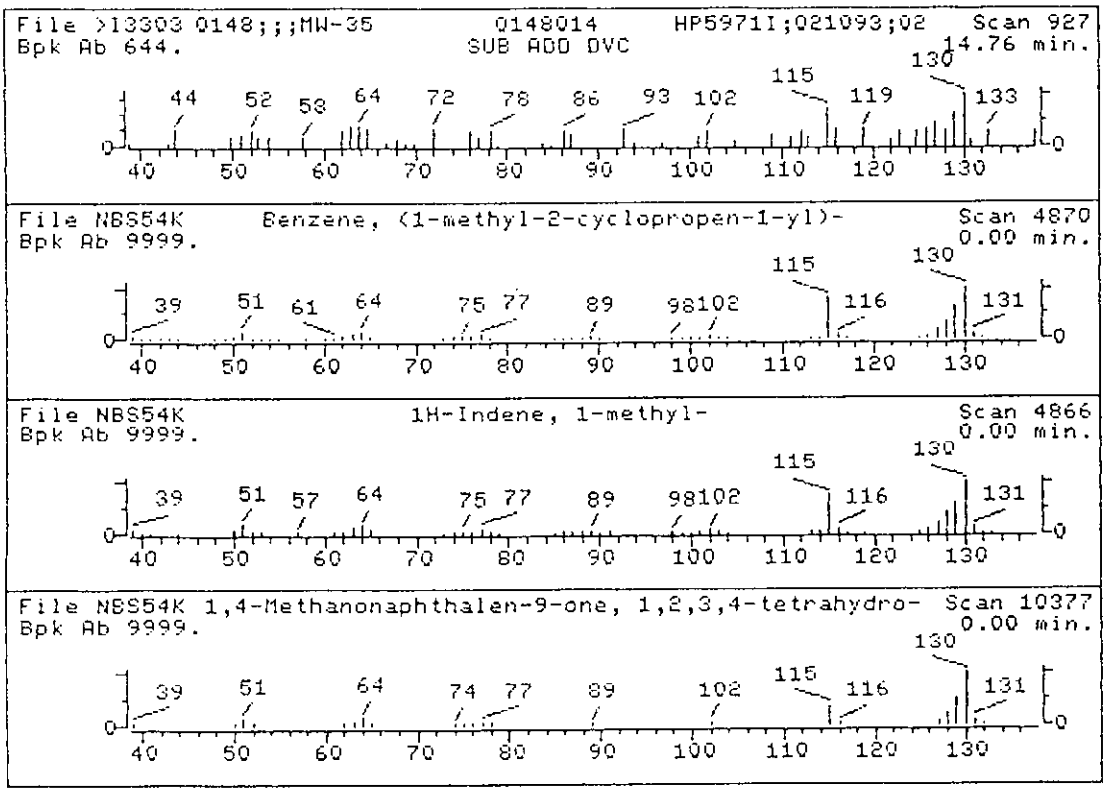


.	Benzene, (1-methyl-2-cyclopropen-1-yl)-	130	C10H10
.	1H-Indene, 1-methyl-	130	C10H10
3.	1,4-Methanonaphthalen-9-one, 1,2,3,4-tetrahydro-	158	C11H10O
4.	1H-Indene, 3-methyl-	130	C10H10
5.	Naphthalene, 1,2-dihydro-	130	C10H10

Sample file: >I3303 Spectrum #: 927
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	40*	65051834	16376	NBS54K	43	67	0	0	90	50	12	48
2.	40*	767599	16372	NBS54K	42	67	0	0	99	50	12	44
3.	25	6165884	16417	NBS54K	42	64	0	0	100	50	7	15
4.	20*	767602	16373	NBS54K	36	70	1	0	74	55	5	19
5.	20*	447530	16369	NBS54K	27	74	0	0	82	53	5	19

Peak#: 17 Area: 27891. Est Conc: 2. Date: 02/19/93 11:39 Inst: I

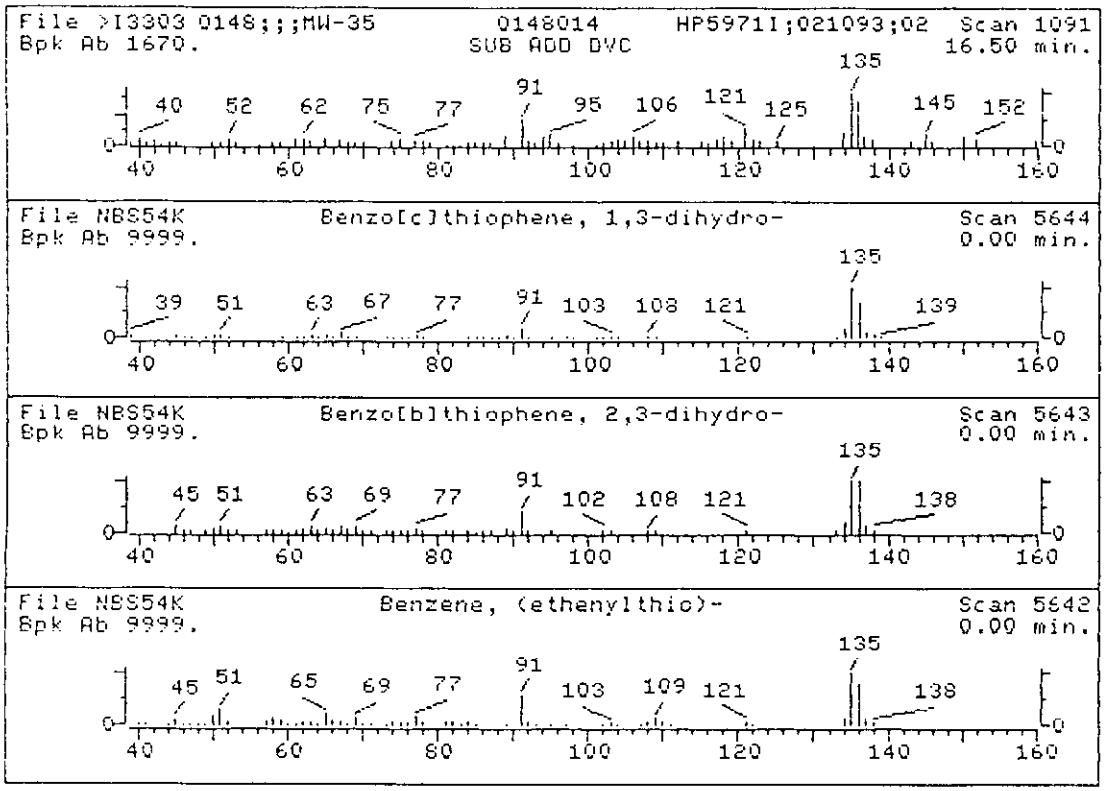


.	Benzo[c]thiophene, 1,3-dihydro-	136	C8H8S
.	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S
3.	Benzene, (ethenylthio)-	136	C8H8S
4.	2-Hydroxy-3-methylbenzaldehyde	136	C8H8O2
5.	2-Hydroxy-4-methylbenzaldehyde	136	C8H8O2

Sample file: >I3303 Spectrum #: 1091
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	2471923	17556	NBS54K	39	55	2	0	100	25	17	18
2.	37*	4565326	17555	NBS54K	34	72	2	0	83	26	14	14
3.	36*	1822737	17554	NBS54K	46	64	3	0	84	29	14	13
4.	34*	824420	17536	NBS54K	54	65	3	0	81	34	12	17
5.	30*	698271	17544	NBS54K	36	62	3	0	97	33	12	13

Peak#: 26 Area: 26988. Est Conc: 2. Date: 02/19/93 11:39 Inst: I

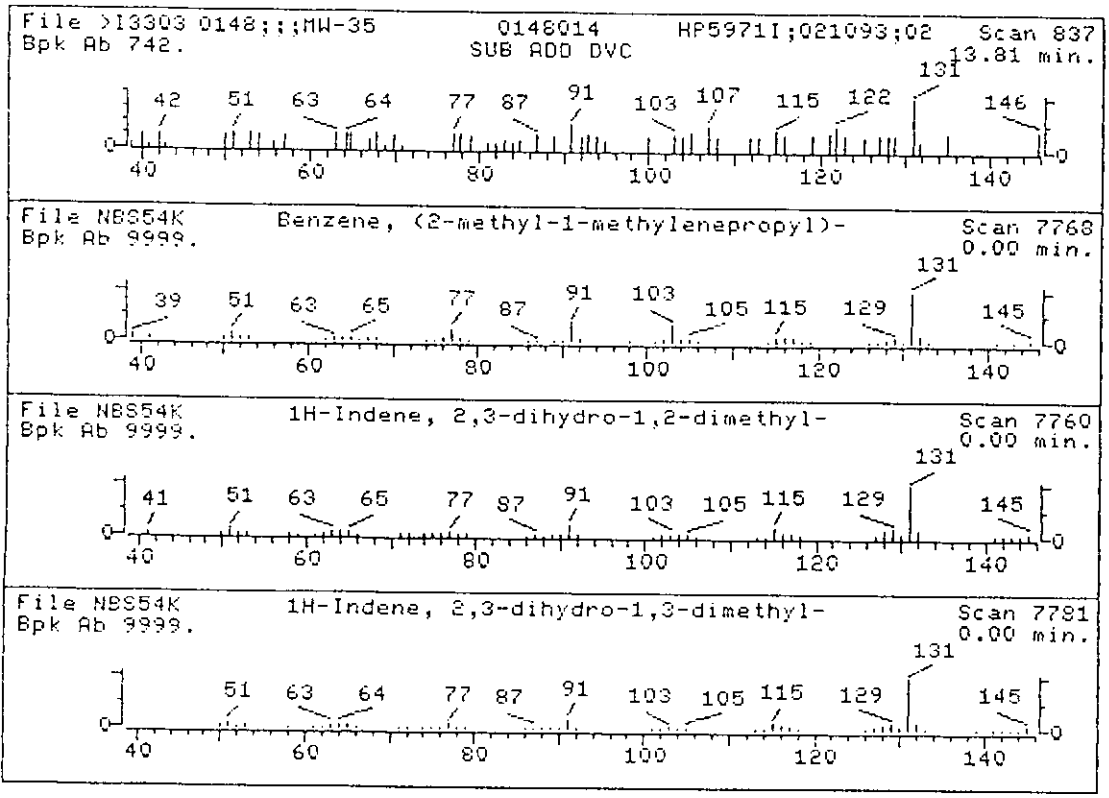


1.	Benzene, (2-methyl-1-methylenepropyl)-	146 C11H14
2.	1H-Indene, 2,3-dihydro-1,2-dimethyl-	146 C11H14
3.	1H-Indene, 2,3-dihydro-1,3-dimethyl-	146 C11H14
4.	Benzene, (3-methyl-2-butenyl)-	146 C11H14
5.	3-Phenyl-4,5-dimethyl-2,1-oxaborolane	202 C13H1980

Sample file: >I3303 Spectrum #: 837
Search speed: 1 Tilting option: N No. of ion ranges searched: 53

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	21*	17498714	19777	NBS54K	35	72	0	0	86	60	5	31
2.	20*	17057828	16602	NBS54K	25	79	0	0	100	55	5	18
3.	15*	4175535	16606	NBS54K	25	76	0	0	100	57	3	18
4.	15*	4489843	19780	NBS54K	25	81	0	0	78	57	3	18
5.	15	19872	16637	NBS54K	25	86	0	0	100	59	3	12

Peak#: 12 Area: 23670. Est Conc: 2. Date: 02/19/93 11:39 Inst: I



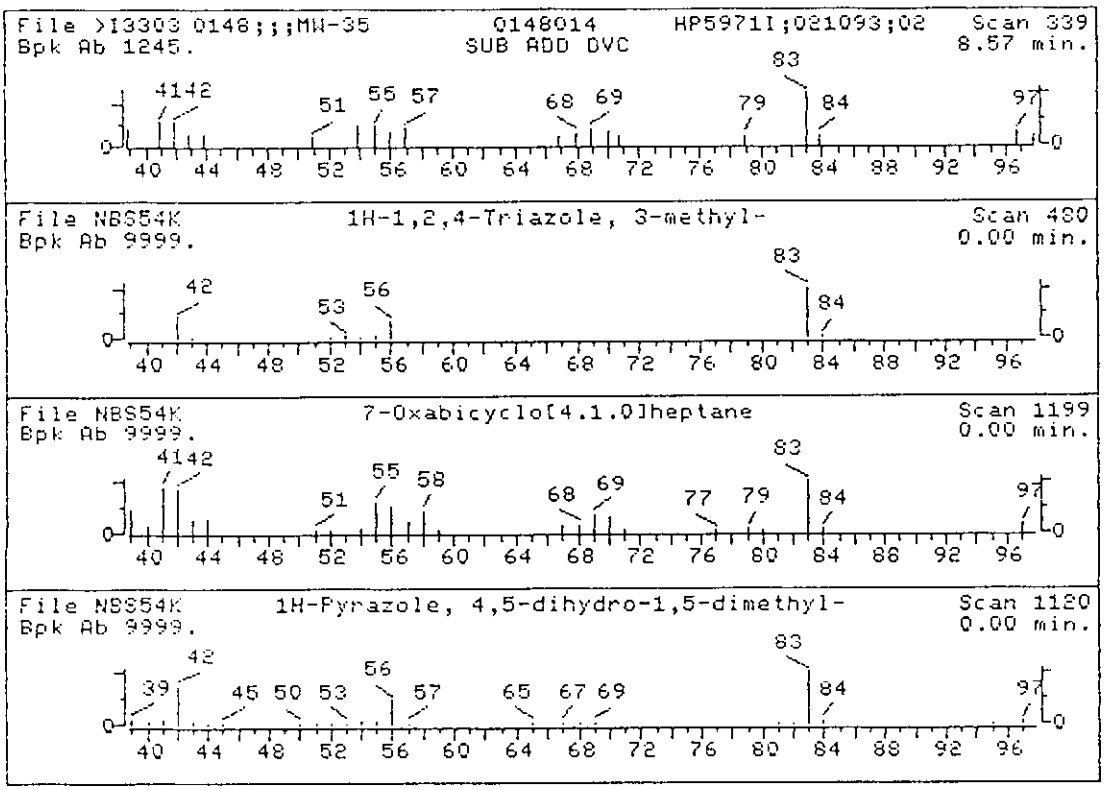
G 0512

.	1H-1,2,4-Triazole, 3-methyl-	83 C3H5N3
2.	7-Oxabicyclo[4.1.0]heptane	98 C6H10O
3.	1H-Pyrazole, 4,5-dihydro-1,5-dimethyl-	98 C5H10N2
4.	1-Butene, 2,3,3-trimethyl-	98 C7H14

Sample file: >I3303 Spectrum #: 339
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	7170016	6459	NBS54K	24	31	2	0	75	42	8	14
2.	26*	286204	6469	NBS54K	31	84	2	0	52	45	8	14
3.	20*	5775962	6462	NBS54K	21	54	2	0	45	53	5	13
4.	15*	594569	6471	NBS54K	22	68	3	0	72	57	3	12

Peak#: 2 Area: 16888. Est Conc: 2. Date: 02/19/93 11:39 Inst: I



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0 0513 | MW-42

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3304.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0514 | MW-42

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3304.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.7	JB
117-84-0	Di-n-octylphthalate	10 ~~0.7~~	~~J~~ U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

amc 2/25/93

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0515

MW-42

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3304.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 21 CMC 2/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	32.04	110	J
2.			36.43	100	
3.			29.11	69	
4.			26.43	70	
5.			43.68	54	
6.			23.37	40	
7.			32.42	33	
8.			39.12	25	
9.			29.32	25	
10.			19.81	20	
11.			26.00	16	
12.			39.43	9	
13.			48.82	9	
14.			33.92	5	
15.			23.49	5	
16.			15.00	4	
17.			38.76	4	
18.		ALDOL CONDENSATION PRODUCT	8.17	4 4	JAB
19.		UNKNOWN	8.57	4	JB
20.			30.48	3	J
21.			14.80	3	
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

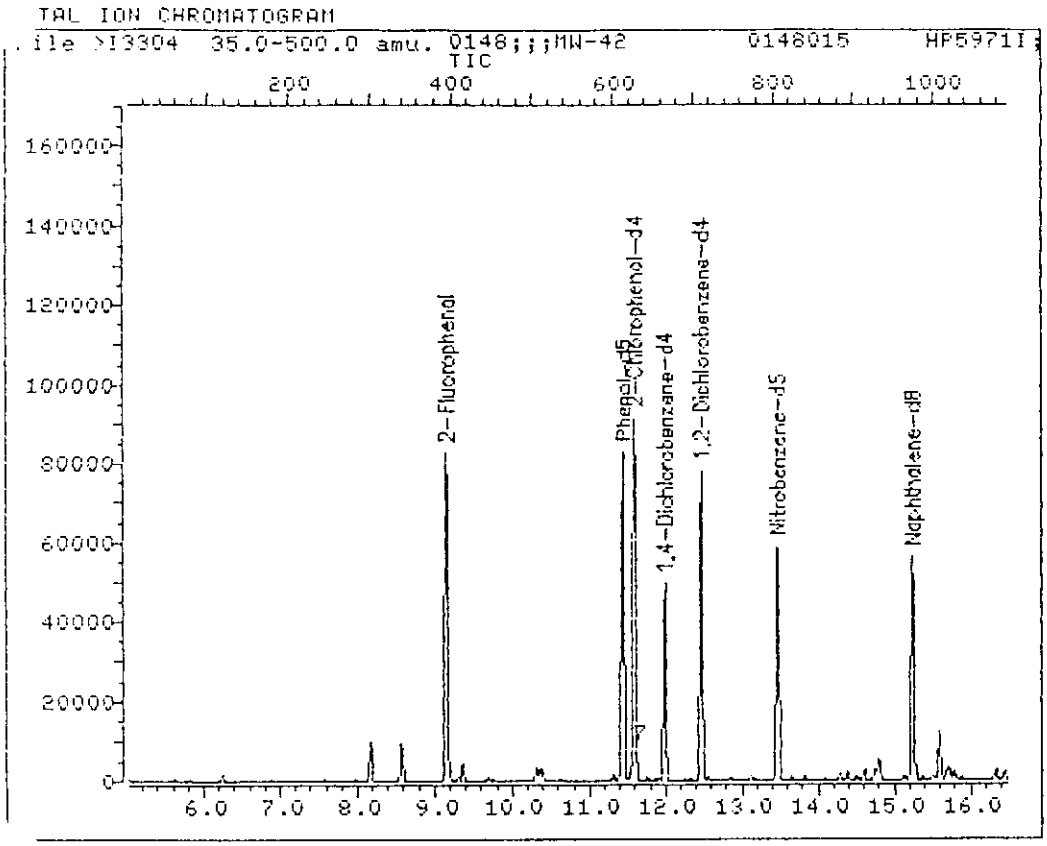
Operator ID: USER1 Quant Rev: 7 Quant Time: 930222 17:46
Output File: ^I3304::A6 Injected at: 930219 12:42
Data File: >I3304::A5 Dilution Factor: .50000
Name: 0148;;;MW-42 Instrument ID: **MSD
Misc: 0148015 HP5971I;021093;021193;LLW;1;;;I02

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.00	151.8	17668	40.00	ug	94
2)	2-Chlorophenol-d4	11.60	132.0	65325	57.87	ug	82
3)	2-Fluorophenol	9.15	111.8	63257	54.83	ug	73
4)	Phenol-d5	11.45	98.8	93137	59.08	ug	61
7)	2-Chlorophenol	11.63	127.8	478^	.404	ug	42
10)	1,2-Dichlorobenzene-d4	12.47	152.0	29783	40.36	ug	96
17)	*Naphthalene-d8	15.24	135.9	64201	40.00	ug	97
18)	Nitrobenzene-d5	13.47	81.8	50462	39.26	ug	72
31)	*Acenaphthene-d10	19.90	163.9	35826	40.00	ug	98
)	2-Fluorobiphenyl	18.13	171.8	87130	39.50	ug	96
,1)	2,4,6-Tribromophenol	22.03	329.6	31912	61.04	ug	94
52)	*Phenanthrene-d10	23.79	187.9	66822	40.00	ug	97
63)	*Chrysene-d12	31.06	240.0	55988	40.00	ug	97
69)	Terphenyl-d14	28.03	244.0	61911	25.08	ug	99
69)	Butylbenzylphthalate	29.39	149.0	1263	.622	ug	44
70)	bis(2-Ethylhexyl)phthalate	31.19	149.0	1849	.736	ug	85
71)	*Perylene-d12	37.74	264.0	55618	40.00	ug	99
72)	Di-n-octylphthalate	33.75	149.0	3325	.678	ug	61

* Compound is ISTD

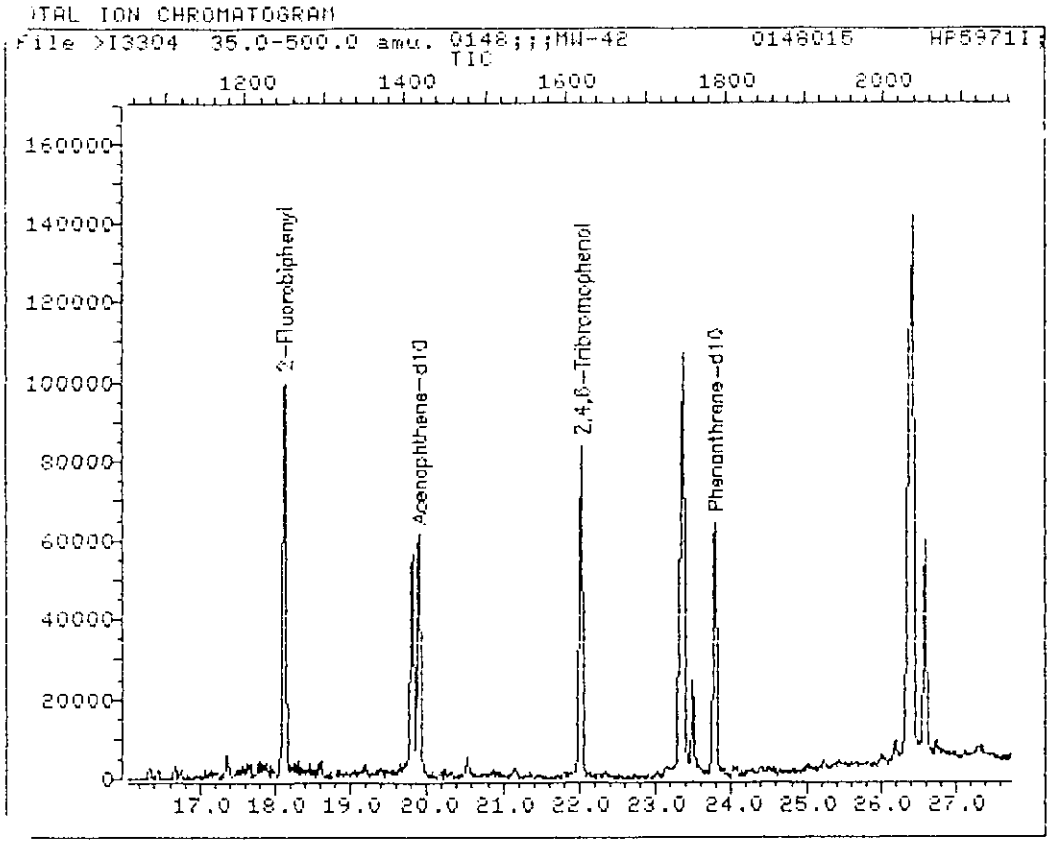
Gne 2/28/93



Data File: >I3304::A5 Quant Output File: ^I3304::A6
Name: 0148;;;MW-42 Instrument ID: **MSD
Misc: 0148015 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:46
Injected at: 930219 12:42

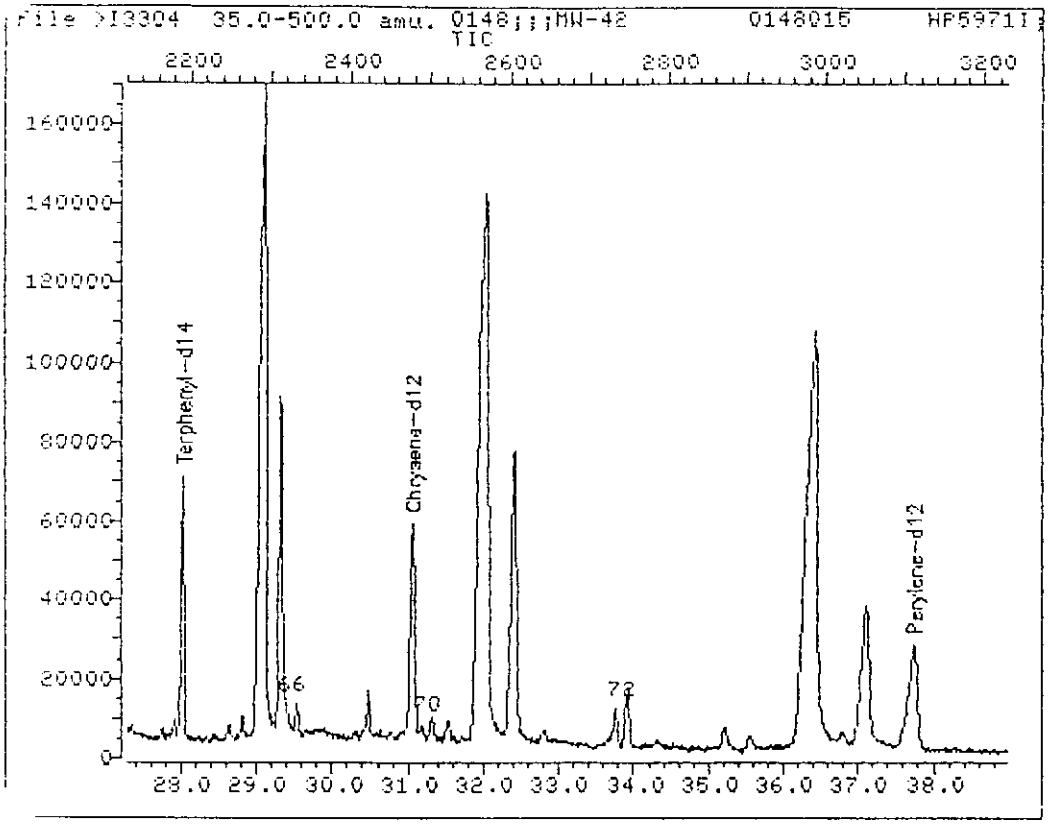


Data File: >I3304::A5 Quant Output File: ^I3304::A6
Name: 0148;;;MW-42 Instrument ID: **MSD
Misc: 0148015 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:46
Injected at: 930219 12:42

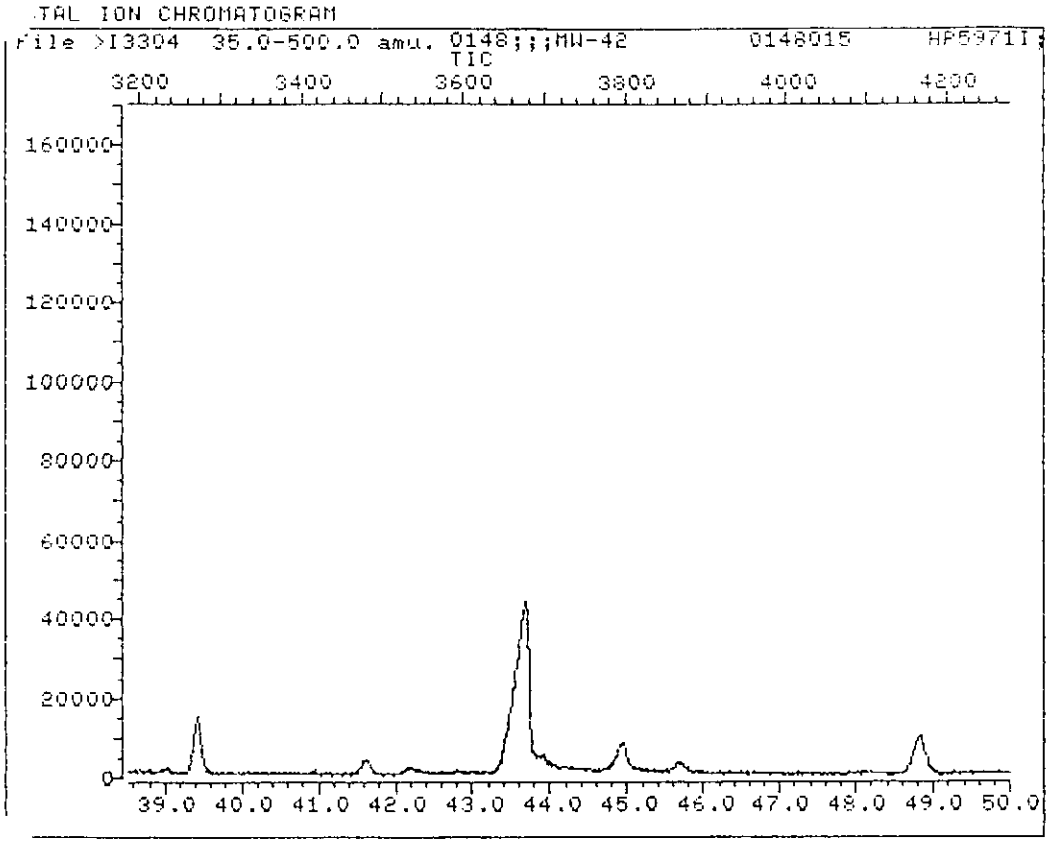
TAL ION CHROMATOGRAM



Data File: >I3304::A5 Quant Output File: ^I3304::A6
Name: 0148;;;MW-42 Instrument ID: **MSD
Misc: 0148015 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:46
Injected at: 930219 12:42

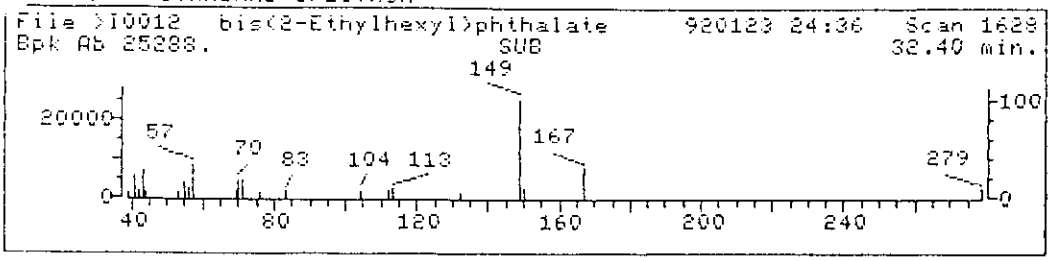


Data File: >I3304::A5 Quant Output File: ^I3304::A6
Name: 0148;;;MW-42 Instrument ID: **MSD
Misc: 0148015 HP5971I;021093;021193;LLW;1;;;I02

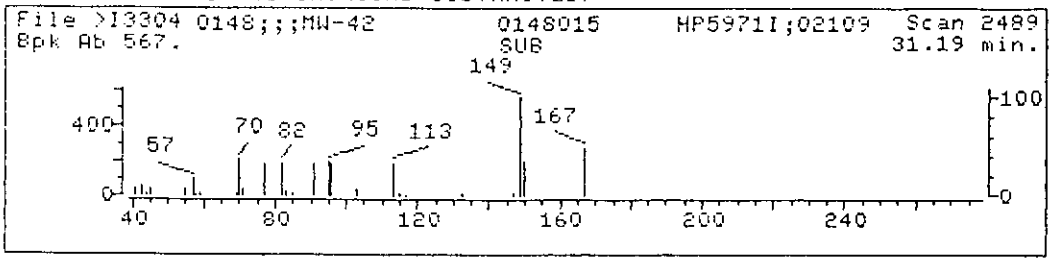
Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:46
Injected at: 930219 12:42

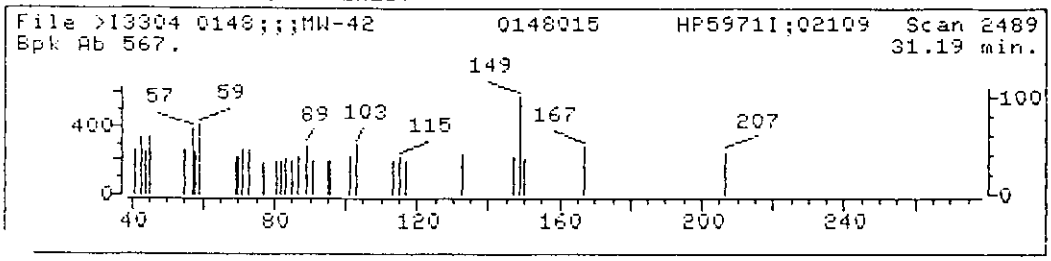
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



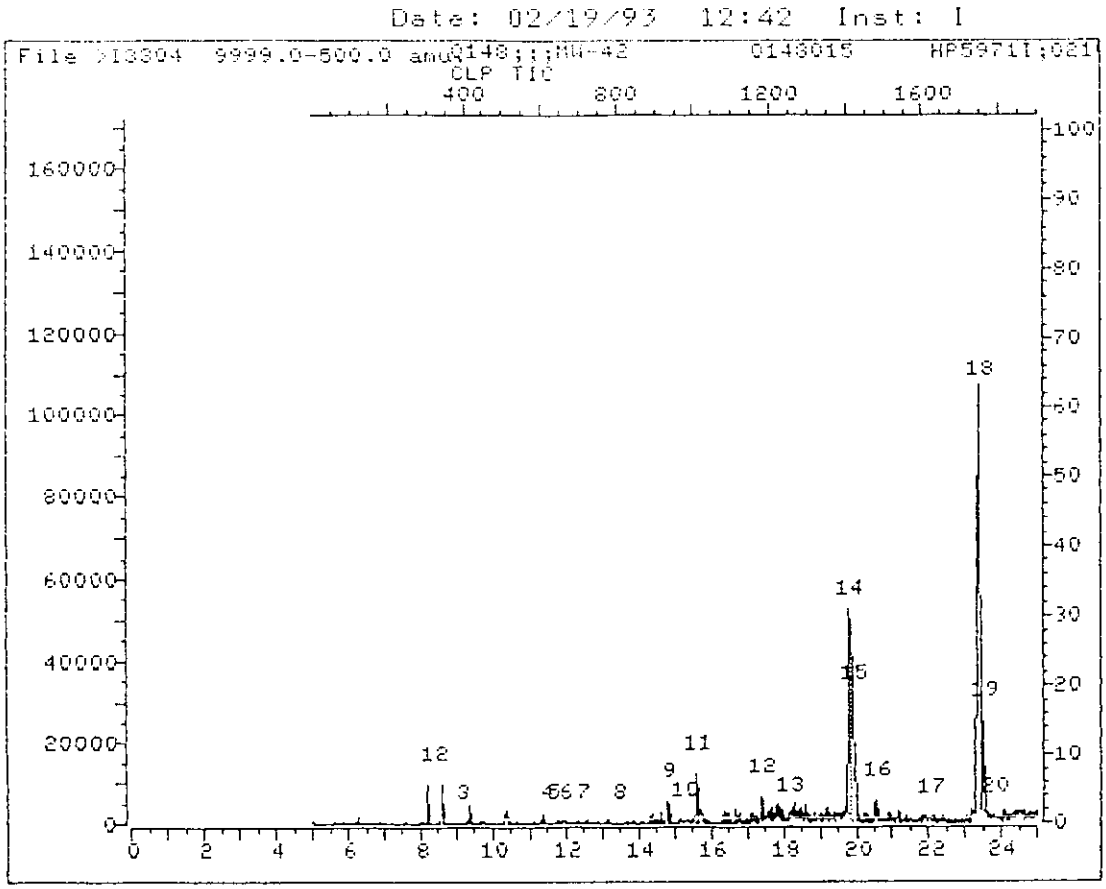
Data File: >I3304::A2 Quant Output File: ^I3304::A6
Name: 0148;;;MW-42 Instrument ID: **MSD
Misc: 0148015 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 13:40 Quant ID File: I_IFI::A5
Injected at: 930219 12:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 70
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 2489
Retention Time: 31.19 min.
Quant Ion : 148.8
Area : 1849
Concentration : .736 ug
q-value : 85

Data file header from : >I3304::A2

Sample: 0148;;;MW-42 Operator: USER1 2/19/93 12:42
Misc : 0148015 HP5971I;021093;021193;LLW;1;;;I02
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 2 Equip ID: **MSD
Method file: CSCUT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0


Date: 02/19/93 12:42 Inst: I
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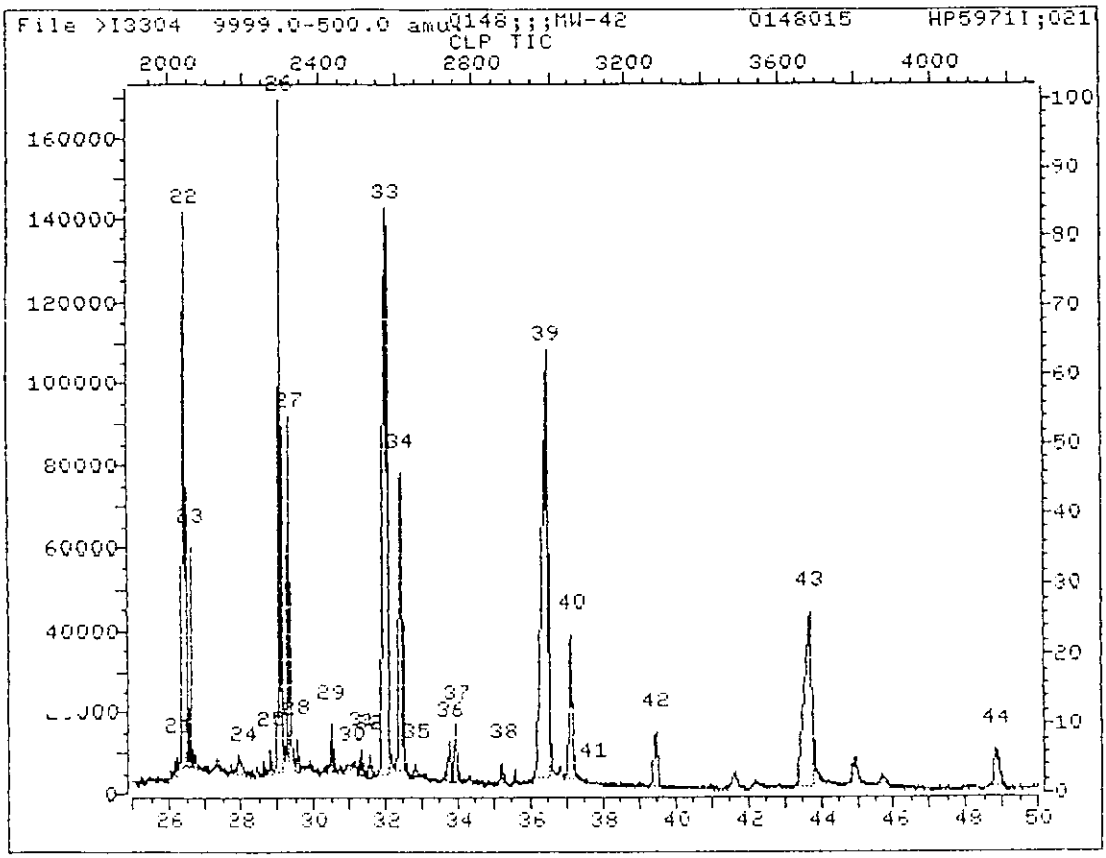
CLP TIC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CLP TIC

MW-42
HP5971I
0524

Date: 02/19/93 12:42 Inst: I

T I C P E A K R E P O R T

PK#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
33.	32.04	1160258.	110.	5.	.50
39.	36.43	1054901.	100.	6.	.50
26.	29.11	946839.	89.	5.	.50
22.	26.43	687126.	76.	4.	.50
43.	43.68	555387.	54.	6.	.50
18.	23.37	416254.	46.	4.	.50
34.	32.42	354835.	33.	5.	.50
40.	37.12	261945.	25.	6.	.50
27.	29.32	261080.	25.	5.	.50
14.	19.81	163599.	20.	3.	.50
23.	26.60	145088.	16.	4.	.50
42.	39.43	91173.	9.	6.	.50
44.	48.82	92296.	9.	6.	.50
37.	33.92	56011.	5.	5.	.50
19.	23.49	45890.	5.	4.	.50
11.	15.60	26023.	4.	2.	.50
36.	33.76	41326.	4.	5.	.50
1.	8.17	20013.	4.	1.	.50
2.	8.57	20253.	4.	1.	.50
29.	30.48	29664.	3.	5.	.50
9.	14.80	20940.	3.	2.	.50
30.	31.54	22670.	2.	5.	.50
.	17.36	15238.	2.	2.	.50

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.00	96569.	0.00	13.62	5.5
NAPHTHALENE-D8	15.24	122966.	13.62	17.57	1.9
ACENAPHTHENE-D10	19.90	162801.	17.57	21.84	4.5
PHENANTHRENE-D10	23.79	180222.	21.84	27.42	2.7
CHRYSENE-D12	31.06	213042.	27.42	34.40	3.8
PERYLENE-D12	37.73	205703.	34.40	48.82	3.7

ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	3
Target peaks matched:	0
Total TIC identified:	23

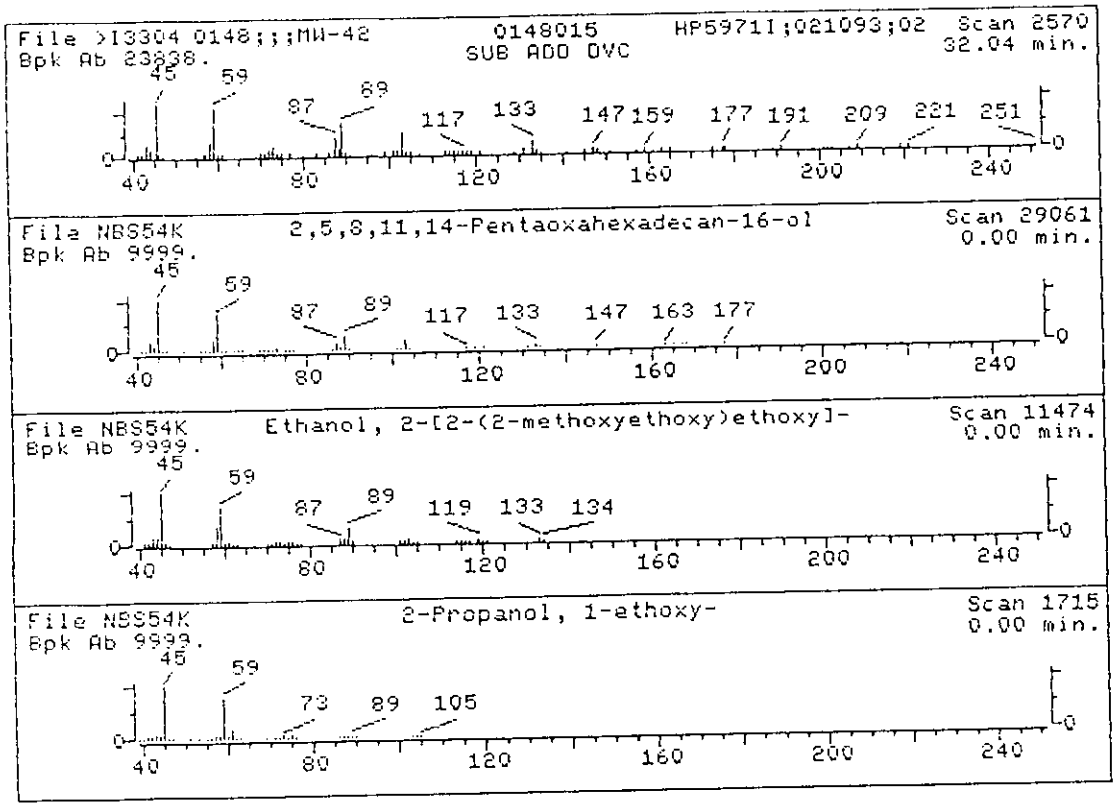
TICS : 3:11 PM MON., 22 FEB., 1993

. 2,5,8,11,14-Pentaoxahexadecan-16-ol — 252 C11H24O6 0525
. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]- — 164 C7H16O4
3. 2-Propanol, 1-ethoxy- — 104 C5H12O2
4. 2-Butanol, 3,3'-oxybis- — 162 C8H18O3
5. Silane, ethyldimethyl- — 88 C4H12Si

Sample file: >I3304 Spectrum #: 2570
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	42	23778521	8670	NBS54K	49	80	0	0	100	27	14	19
2.	28	112356	8547	NBS54K	39	60	0	0	77	43	8	16
3.	25*	1569024	1853	NBS54K	34	60	1	0	80	48	7	18
4.	20	54305612	2000	NBS54K	37	48	1	0	92	55	5	14
5.	20*	758214	1807	NBS54K	37	61	2	0	61	55	5	15

Peak#: 33 Area: 1160258. Est Conc: 110. Date: 02/19/93 12:42 Inst: I

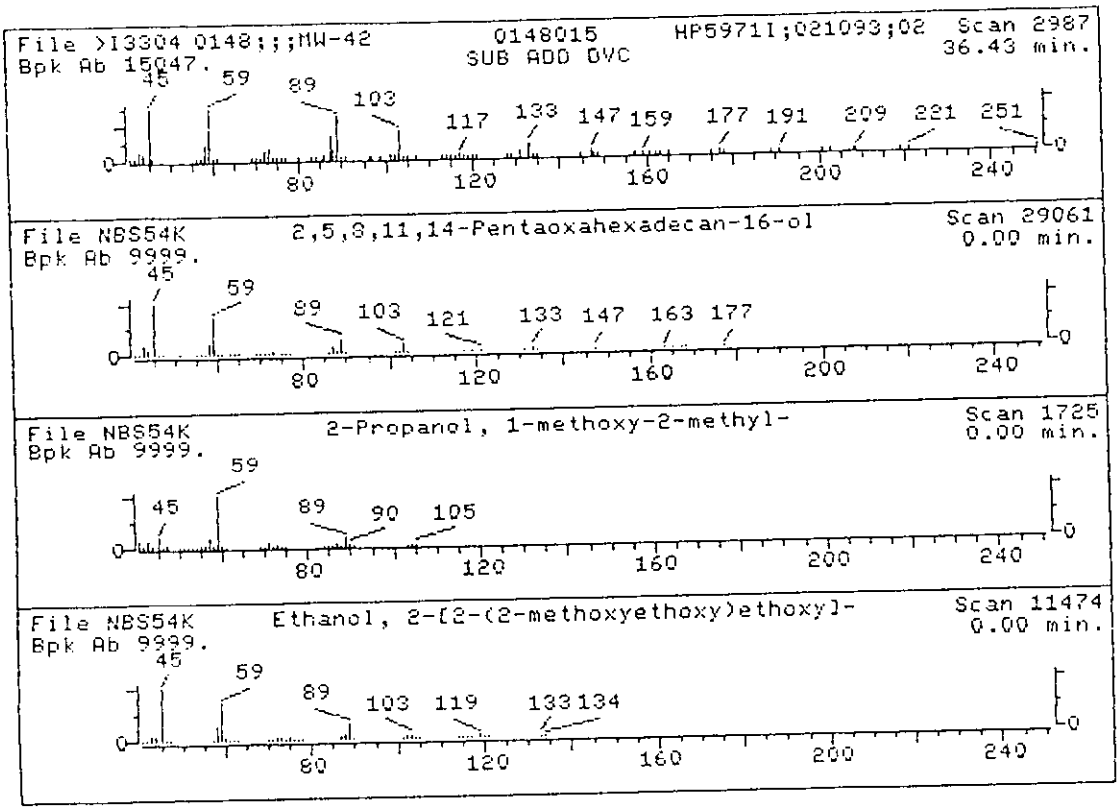


1.	2,5,8,11,14-Pentaoxahexadecan-16-ol	292 C11H2406
2.	2-Propanol, 1-methoxy-2-methyl-	104 C5H1202
3.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H1604
4.	2-Propanol, 1-ethoxy-	104 C5H1202
5.	Silane, (2-methoxyethoxy)trimethyl-	148 C6H1602Si

Sample file: >I3304 Spectrum #: 2987
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29	23778521	8670	NBS54K	43	86	0	0	99	39	10	15
2.	25*	3587642	1855	NBS54K	22	69	3	0	528	50	7	12
3.	20	112356	8547	NBS54K	33	66	0	0	86	53	5	15
4.	15*	1569024	1853	NBS54K	34	60	1	0	85	56	3	18
5.	15*	18173745	8521	NBS54K	30	81	2	0	76	59	3	14

Peak#: 39 Area: 1054901. Est Conc: 100. Date: 02/19/93 12:42 Inst: I

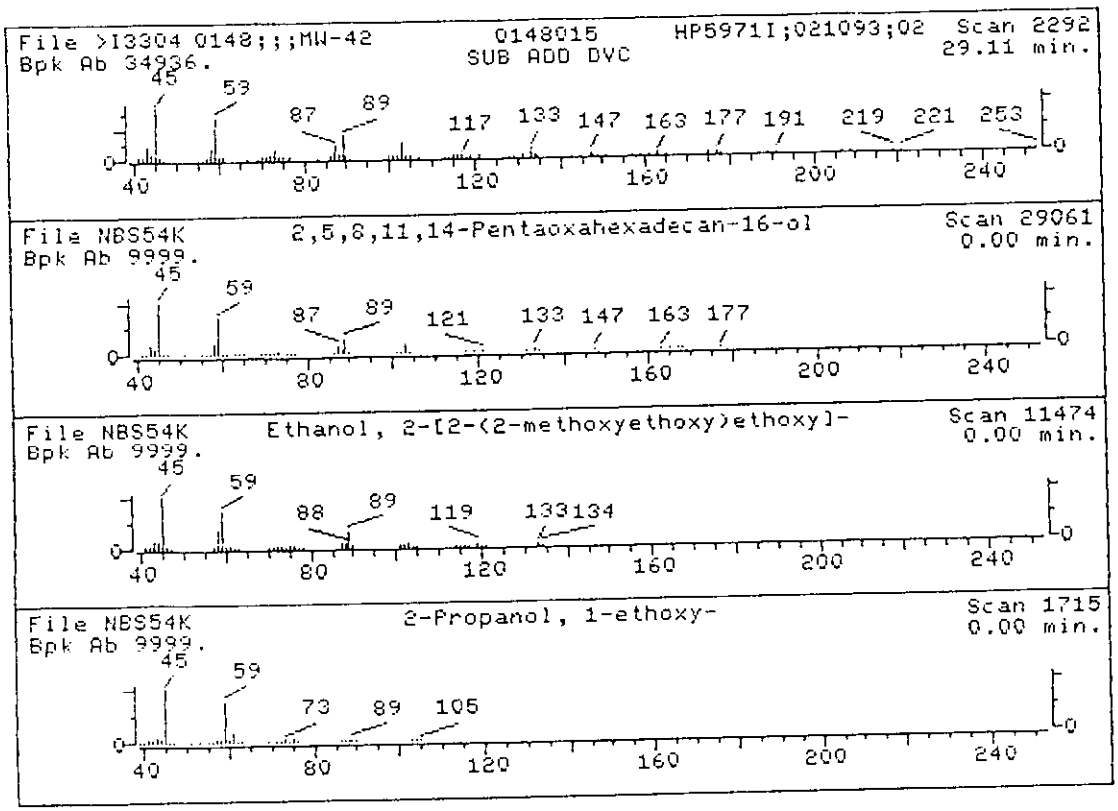


. 2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6
. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
3. 2-Propanol, 1-ethoxy-	104	C5H12O2
4. 2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6
5. Silane, ethyldimethyl-	88	C4H12Si

Sample file: >I3304 Spectrum #: 2292
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	74	23778521	8670	NBS54K	70	59	0	0	100	15	39	46
2.	30	112356	8547	NBS54K	39	60	0	0	70	36	10	16
3.	30*	1569024	1853	NBS54K	34	60	1	0	72	41	8	18
4.	25	1191873	2071	NBS54K	37	79	0	0	74	48	7	15
5.	20*	758214	1807	NBS54K	30	68	3	0	81	51	5	13

Peak#: 26 Area: 946839. Est Conc: 89. Date: 02/19/93 12:42 Inst: I

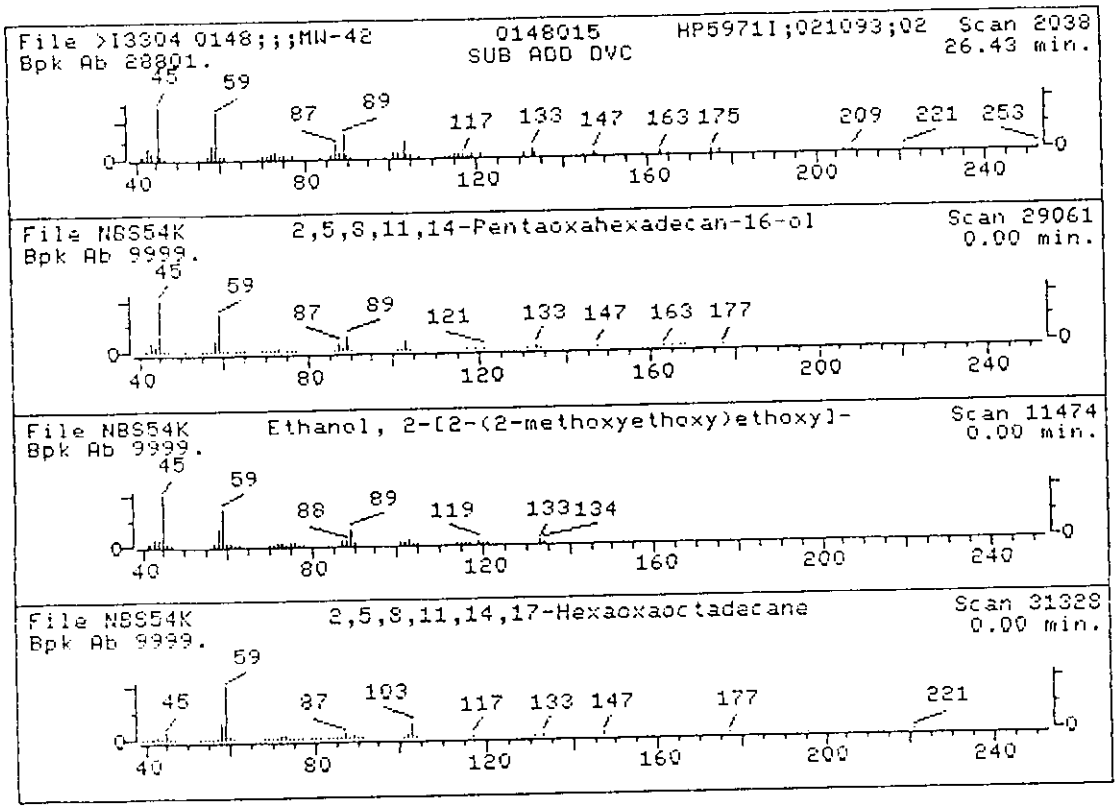


.	2,5,8,11,14-Pentaoxahexadecan-16-ol	292 C11H2406
_.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H1604
3.	2,5,8,11,14,17-Hexaoxaoctadecane	266 C12H2606
4.	2-Propanol, 1-ethoxy-	104 C5H1202
5.	2-Butanol, 3,3'-oxybis-	162 C8H1803

Sample file: >I3304 Spectrum #: 2038
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	66	23778521	8670	NBS54K	70	59	0	0	100	16	31	46
2.	56	112356	8547	NBS54K	49	50	0	0	82	22	22	28
3.	30	1191873	2071	NBS54K	51	65	0	0	86	46	10	22
4.	30*	1569024	1853	NBS54K	34	60	1	0	74	41	8	18
5.	18	54305612	2000	NBS54K	42	43	0	0	68	57	4	23

Peak#: 22 Area: 687126. Est Conc: 76. Date: 02/19/93 12:42 Inst: I

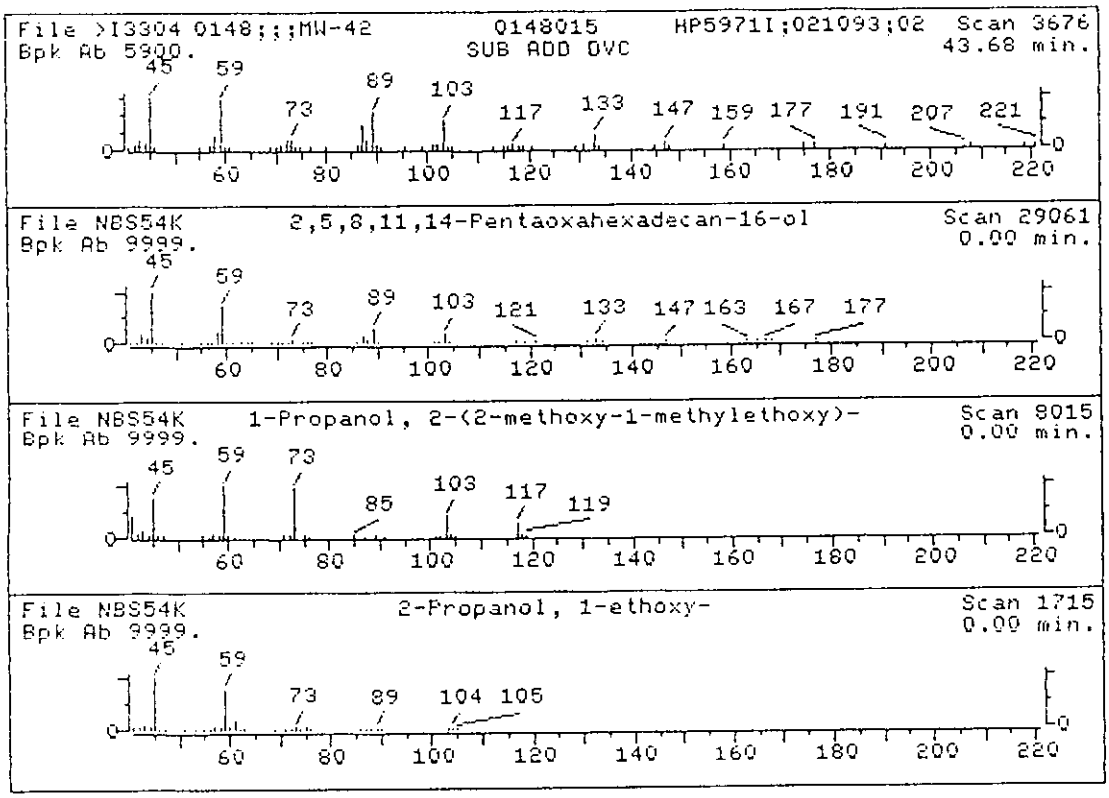


.	2,5,8,11,14-Pentaoxahexadecan-16-ol	292	C11H24O6
_.	1-Propanol, 2-(2-methoxy-1-methylethoxy)-	148	C7H16O3
3.	2-Propanol, 1-ethoxy-	104	C5H12O2
4.	1-Propanol, 3-[3-(1-methylethoxy)propoxy]-	176	C9H20O3
5.	Silane, triethyl-	116	C6H16Si

Sample file: >I3304 Spectrum #: 3676
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	32	23778521	8670	NBS54K	38	91	0	0	100	33	12	15
2.	24	55956213	1970	NBS54K	54	49	2	0	96	41	8	12
3.	20*	1569024	1853	NBS54K	34	60	1	0	100	51	5	18
4.	20	54518035	2023	NBS54K	26	73	0	0	88	55	5	13
5.	12*	617867	7614	NBS54K	39	51	1	0	66	61	2	22

Peak#: 43 Area: 555387. Est Conc: 54. Date: 02/19/93 12:42 Inst: I

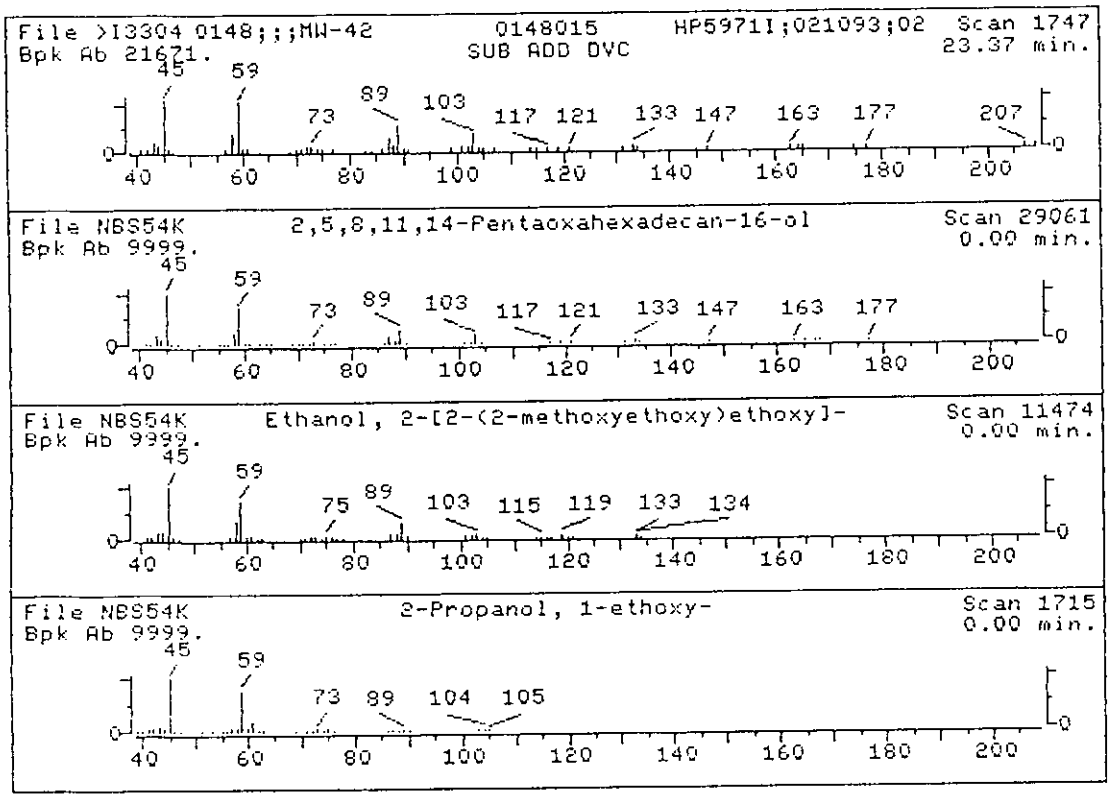


.	2,5,8,11,14-Pentaoxahexadecan-16-ol	252 C11H2406
2.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H1604
3.	2-Propanol, 1-ethoxy-	104 C5H1202
4.	Propane, 1,2,3-trimethoxy-	134 C6H1403
5.	Silane, ethyldimethyl-	88 C4H12Si

Sample file: >I3304 Spectrum #: 1747
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76	23778521	8670	NBS54K	76	53	0	0	100	15	40	56
2.	59	112356	8547	NBS54K	56	43	0	0	100	23	27	31
3.	30*	1569024	1853	NBS54K	34	60	1	0	82	41	8	18
4.	29	20637494	8497	NBS54K	61	51	2	0	67	32	12	12
5.	25*	758214	1807	NBS54K	34	64	2	0	80	50	7	14

Peak#: 18 Area: 416254. Est Conc: 46. Date: 02/19/93 12:42 Inst: I

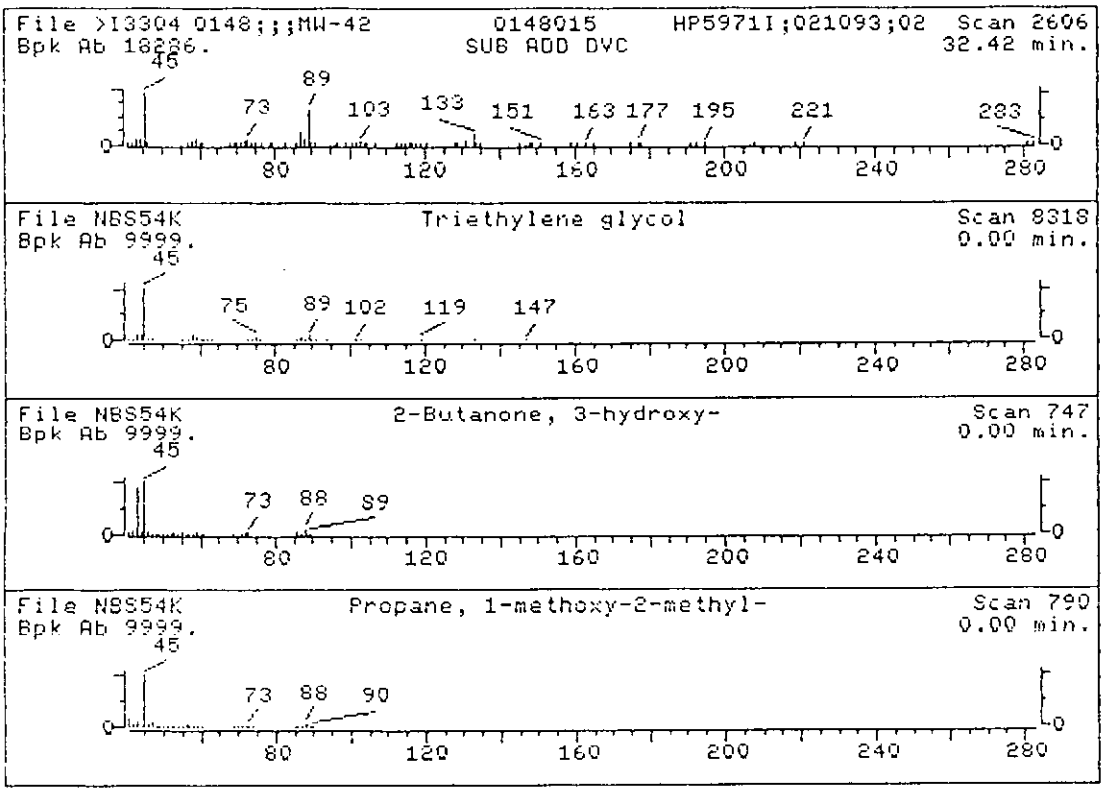


1.	Triethylene glycol	150	C6H1404
.	2-Butanone, 3-hydroxy-	88	C4H802
.	Propane, 1-methoxy-2-methyl-	88	C5H120
4.	Propane, 2-methyl-1-propoxy-	116	C7H160
5.	Propanoic acid, 2-hydroxy-, methyl ester, (.+-.)- (9 CI)	104	C4H803

Sample file: >I3304 Spectrum #: 2606
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25	112276	8525	NBS54K	34	50	1	0	73	50	7	12
2.	25*	513860	346	NBS54K	29	56	2	0	100	50	7	14
3.	25*	625445	348	NBS54K	21	61	2	0	100	50	7	13
4.	24*	15268492	7618	NBS54K	22	64	3	0	100	43	8	12
5.	20*	2155308	153	NBS54K	21	57	2	0	100	54	5	13

Peak#: 34 Area: 354835. Est Conc: 33. Date: 02/19/93 12:42 Inst: I

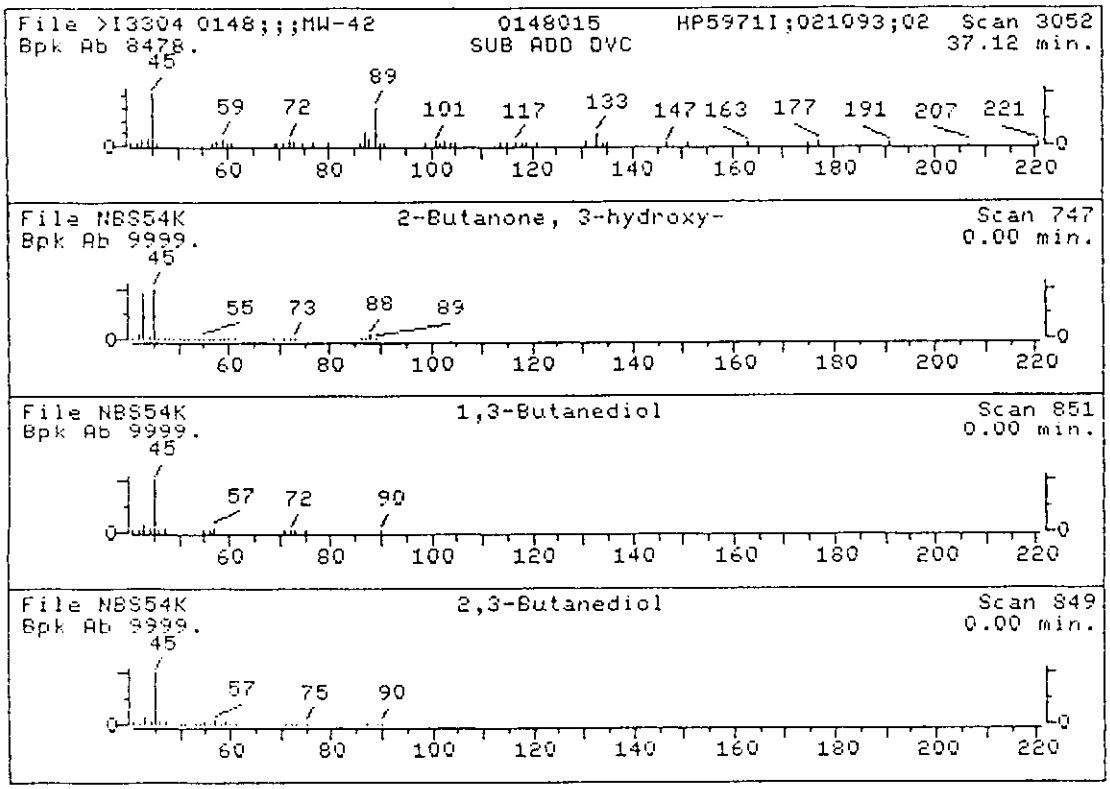


1.	2-Butanone, 3-hydroxy-	88	C4H8O2
.	1,3-Butanediol	90	C4H10O2
3.	2,3-Butanediol	90	C4H10O2
4.	Propane, 1-methoxy-2-methyl-	88	C5H12O
5.	Propanoic acid, 2-hydroxy-, methyl ester, (.+-.)- (9 CI)	104	C4H8O3

Sample file: >I3304 Spectrum #: 3052
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	513860	346	NBS54K	24	61	2	0	100	50	7	14
2.	20*	107880	351	NBS54K	26	49	2	0	100	55	5	14
3.	20*	513859	350	NBS54K	28	53	2	0	100	55	5	14
4.	20*	625445	348	NBS54K	27	55	2	0	100	51	5	14
5.	20*	2155308	153	NBS54K	21	57	2	0	100	55	5	13

Peak#: 40 Area: 261945. Est Conc: 25. Date: 02/19/93 12:42 Inst: I



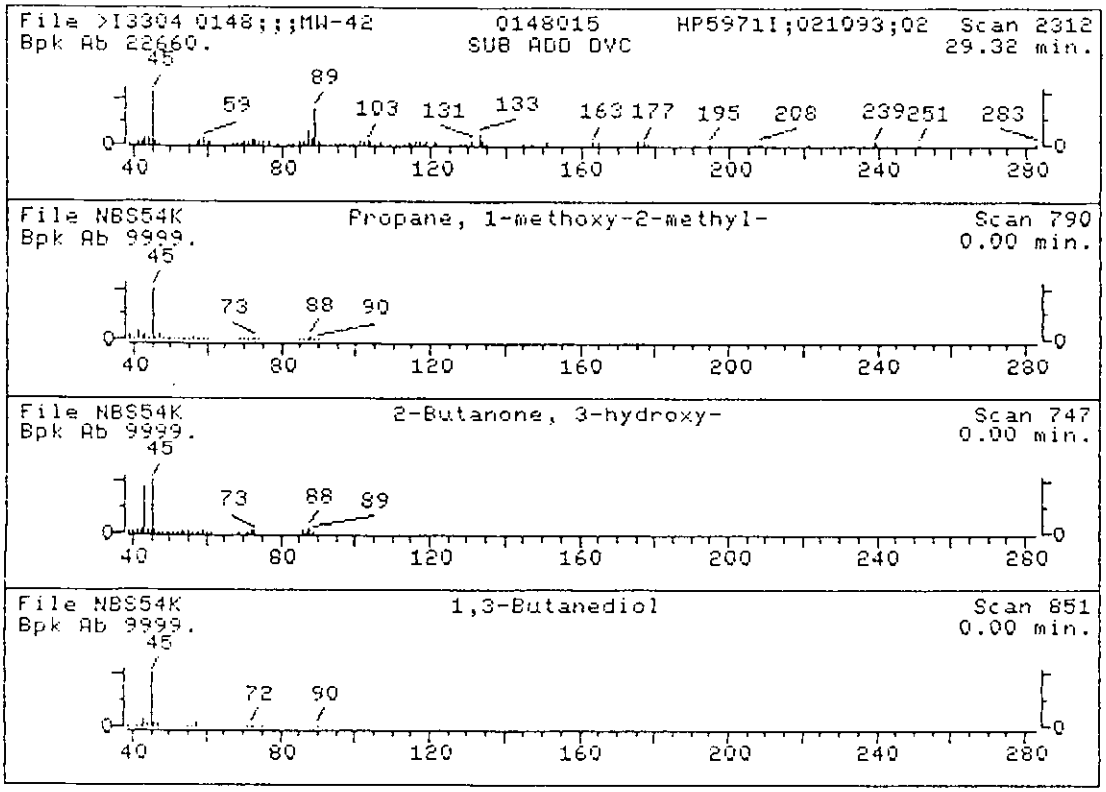
0533

1.	Propane, 1-methoxy-2-methyl-	88	C5H12O
2.	2-Butanone, 3-hydroxy-	88	C4H8O2
3.	1,3-Butanediol	90	C4H10O2
4.	Propanoic acid, 2-hydroxy-, methyl ester, (.+-.)- (9 CI)	104	C4H8O3
5.	2,3-Butanediol	90	C4H10O2

Sample file: >I3304 Spectrum #: 2312
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	625445	348	NBS54K	27	55	2	0	100	49	7	14
2.	25*	513860	346	NBS54K	24	61	2	0	100	49	7	14
3.	20*	107880	351	NBS54K	24	51	2	0	100	53	5	14
4.	20*	2155308	153	NBS54K	23	55	2	0	100	53	5	13
5.	20*	513859	350	NBS54K	21	60	2	0	100	53	5	13

Peak#: 27 Area: 261080. Est Conc: 25. Date: 02/19/93 12:42 Inst: I

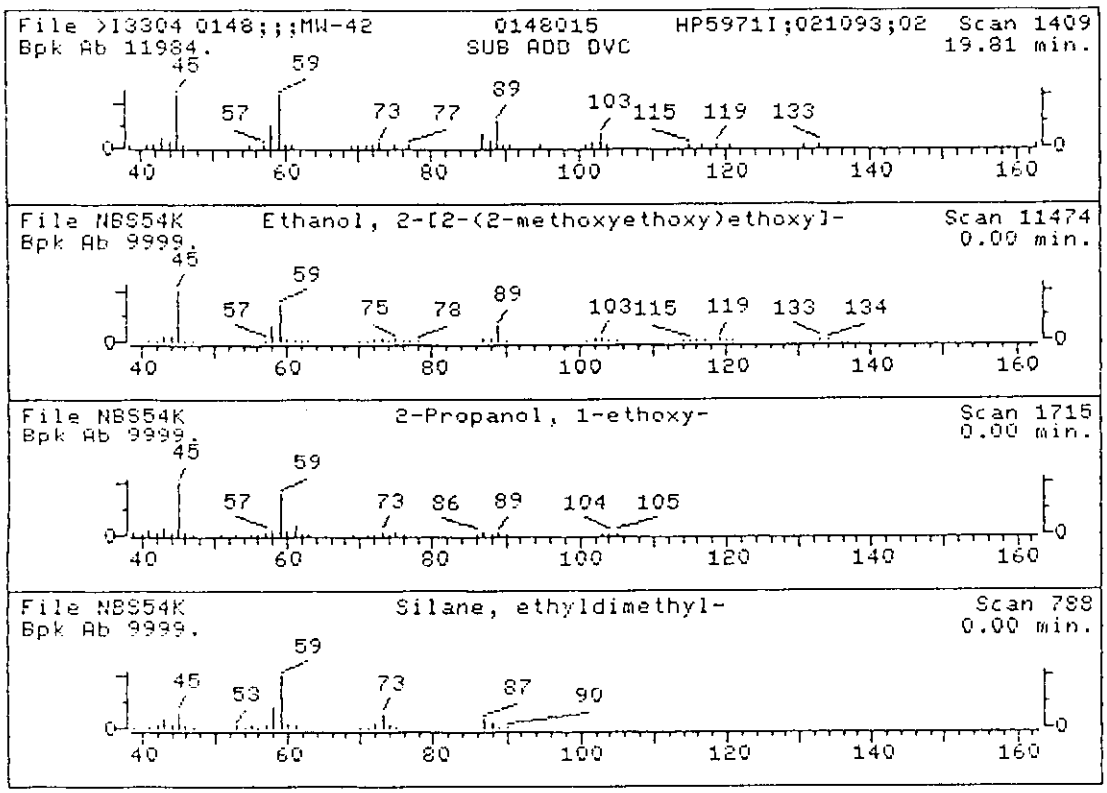


.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
_.	2-Propanol, 1-ethoxy-	104	C5H12O2
3.	Silane, ethyldimethyl-	88	C4H12Si
4.	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3
5.	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5

Sample file: >I3304 Spectrum #: 1409
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58	112356	8547	NBS54K	62	37	1	0	98	18	25	23
2.	31*	1569024	1853	NBS54K	39	55	1	0	97	43	12	22
3.	29*	758214	1807	NBS54K	42	56	2	0	100	41	8	17
4.	25	111966	1938	NBS54K	27	63	0	0	95	48	7	14
5.	25	143248	2057	NBS54K	26	84	0	0	100	48	7	13

Peak#: 14 Area: 163599. Est Conc: 20. Date: 02/19/93 12:42 Inst: I

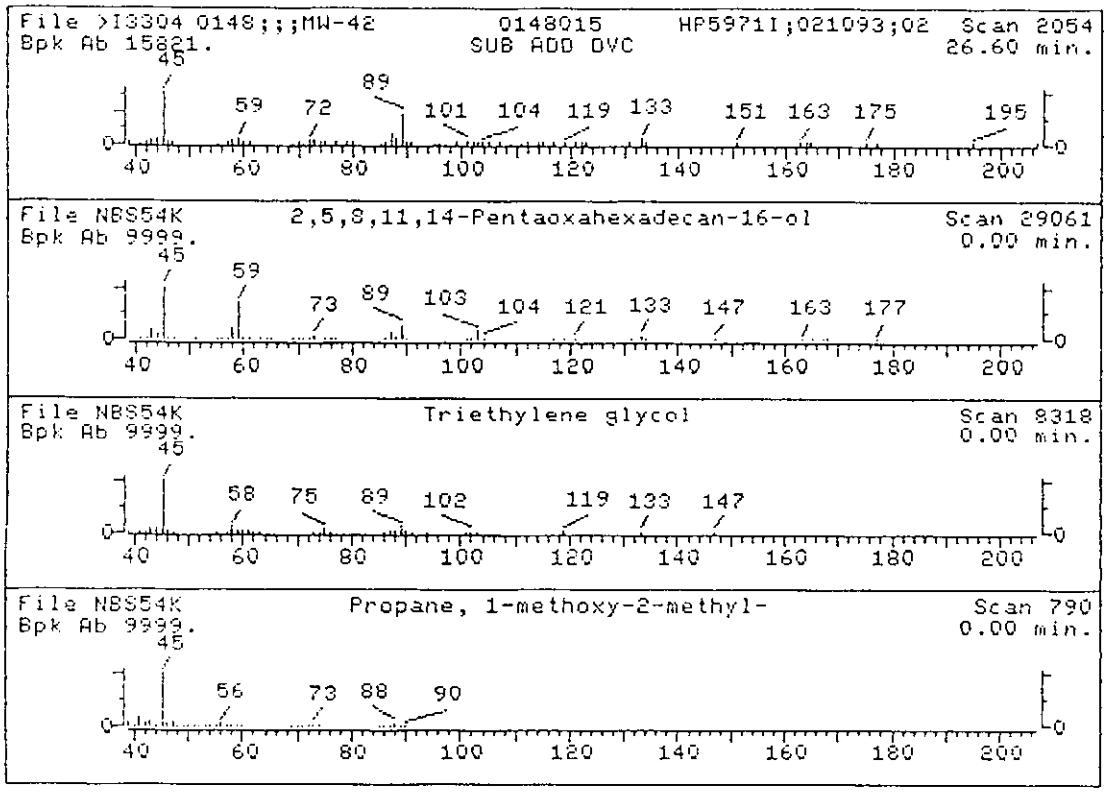


1.	2,5,8,11,14-Pentaoxahexadecan-16-ol	252 C11H2406
2.	Triethylene glycol	150 C6H1404
3.	Propane, 1-methoxy-2-methyl-	88 C5H12O
4.	2-Butanone, 3-hydroxy-	88 C4H8O2
5.	1,3-Butanediol	90 C4H10O2

Sample file: >I3304 Spectrum #: 2054
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	43	23778521	8670	NBS54K	64	65	2	0	100	21	17	14
2.	25	112276	8525	NBS54K	34	50	1	0	78	49	7	12
3.	25*	625445	348	NBS54K	23	59	2	0	100	49	7	13
4.	25*	513860	346	NBS54K	24	61	2	0	100	47	7	14
5.	20*	107880	351	NBS54K	26	49	2	0	100	53	5	14

Peak#: 23 Area: 145088. Est Conc: 16. Date: 02/19/93 12:42 Inst: I

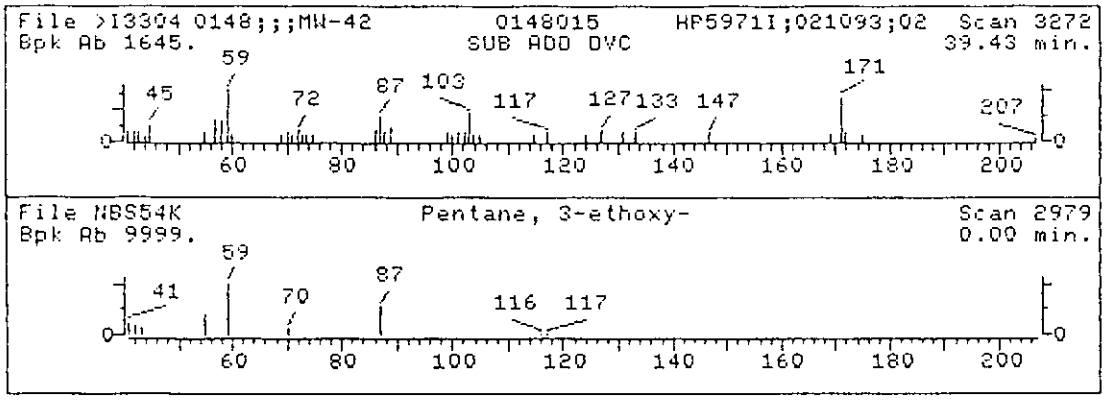


. Pentane, 3-ethoxy- 116 C7H16O

Sample file: >I3304 Spectrum #: 3272
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11	36749130	7615	NBS54K	36	35	2	0	87	63	2	12

Peak#: 42 Area: 91173. Est Conc: 9. Date: 02/19/93 12:42 Inst: I

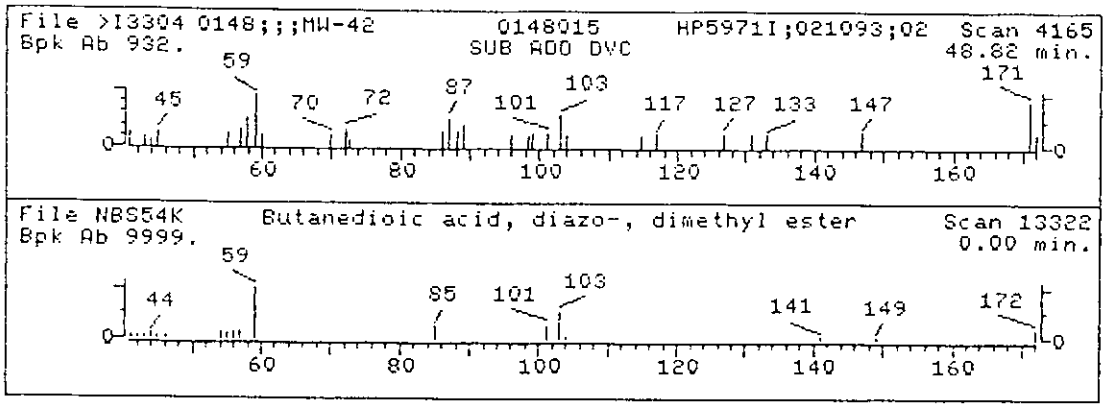


. Butanedioic acid, diazo-, dimethyl ester 172 C6H8N2O4

Sample file: >I3304 Spectrum #: 4165
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	55514368	24514	NBS54K	33	84	3	0	100	57	3	13

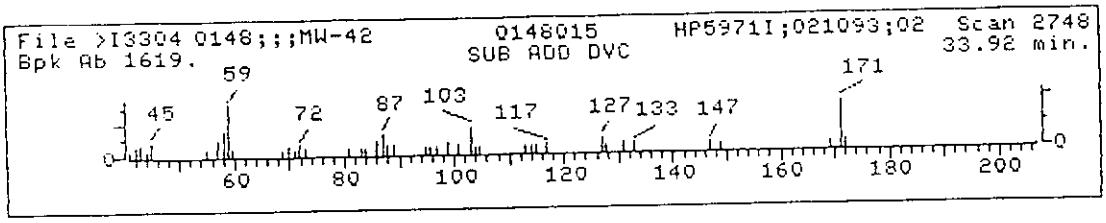
Peak#: 44 Area: 92296. Est Conc: 9. Date: 02/19/93 12:42 Inst: I



Sample file: >I3304 Spectrum #: 2748

No data base entries were retrieved.

Peak#: 37 Area: 56011. Est Conc: 5. Date: 02/19/93 12:42 Inst: I

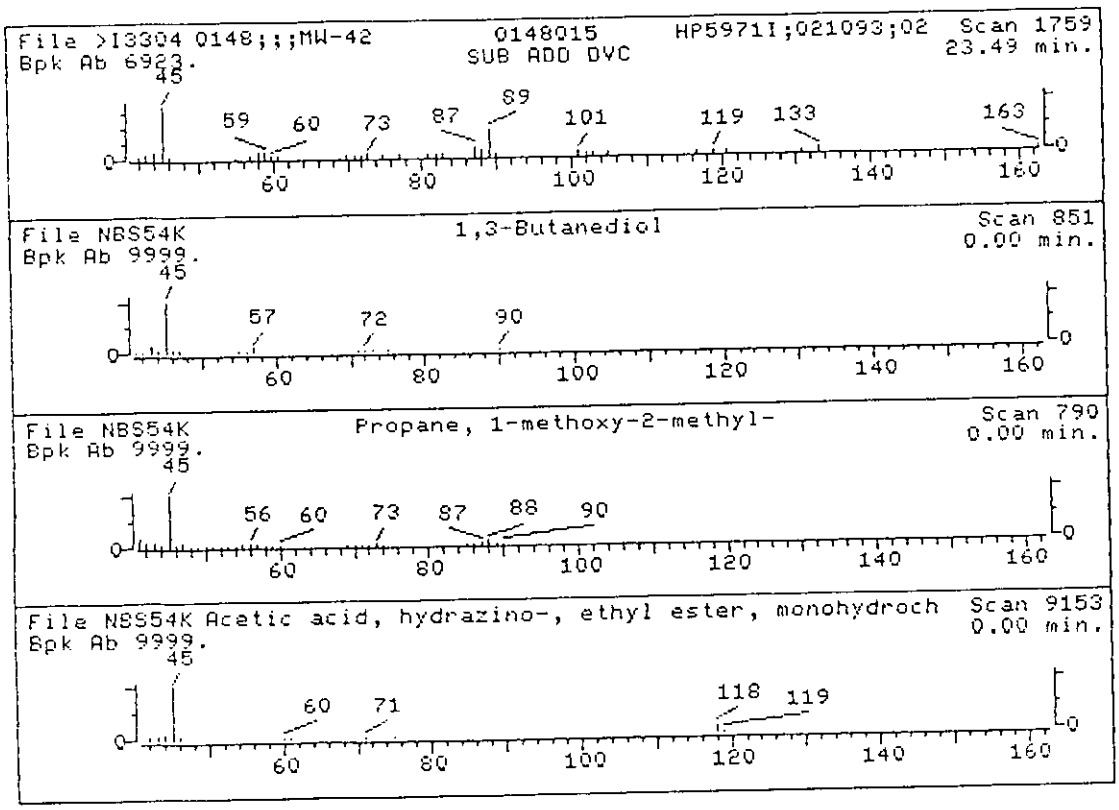


. 1,3-Butanediol	90	C4H10O2
2. Propane, 1-methoxy-2-methyl-	88	C5H12O
3. Acetic acid, hydrazino-, ethyl ester, monohydrochlor ide	154	C4H11ClN2O2

Sample file: >I3304 Spectrum #: 1759
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	107880	351	NBS54K	26	49	2	0	100	48	7	14
2.	25*	625445	348	NBS54K	23	59	2	0	100	45	8	13
3.	20	6945922	371	NBS54K	33	56	1	0	99	51	5	12

Peak#: 19 Area: 45890. Est Conc: 5. Date: 02/19/93 12:42 Inst: I

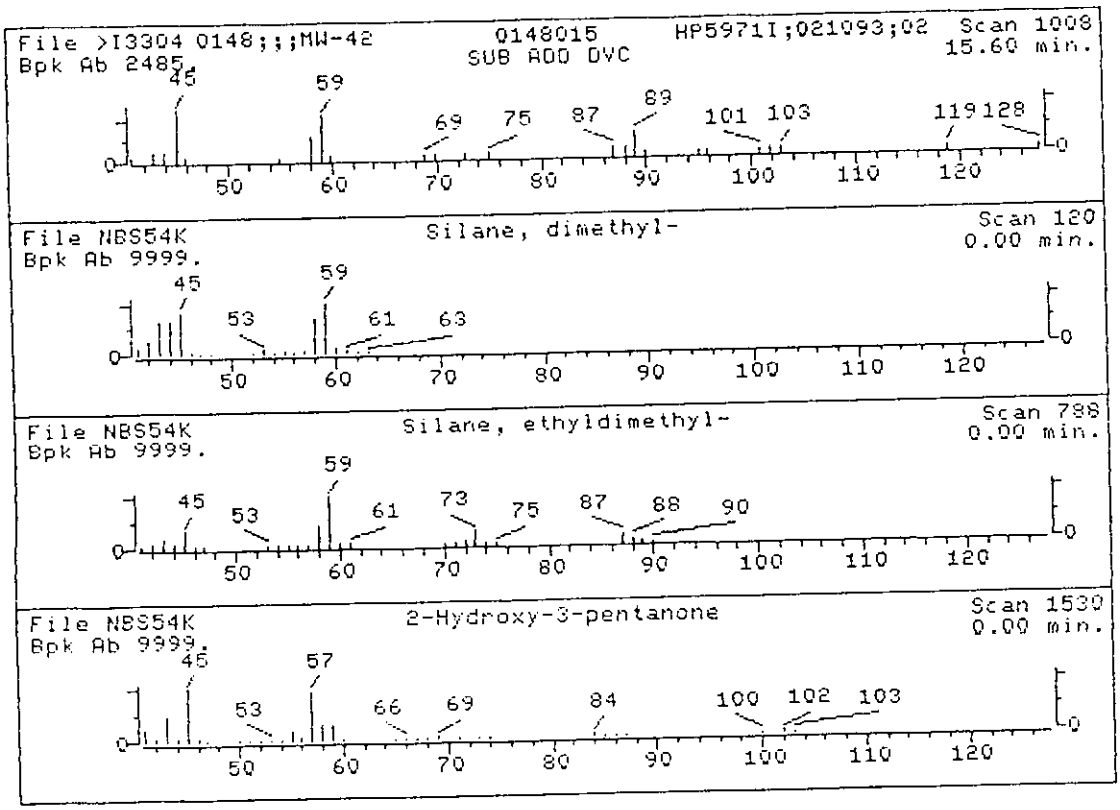


. Silane, dimethyl- 60 C2H8Si
2. Silane, ethyldimethyl- 88 C4H12Si
3. 2-Hydroxy-3-pentanone 102 C5H10O2

Sample file: >I3304 Spectrum #: 1008
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	27*	1111746	1791	NBS54K	31	78	3	0	62	39	10	13
2.	26*	758214	1807	NBS54K	36	62	2	0	87	41	8	14
3.	25*	5704201	1833	NBS54K	22	87	3	0	100	49	7	12

Peak#: 11 Area: 26023. Est Conc: 4. Date: 02/19/93 12:42 Inst: I

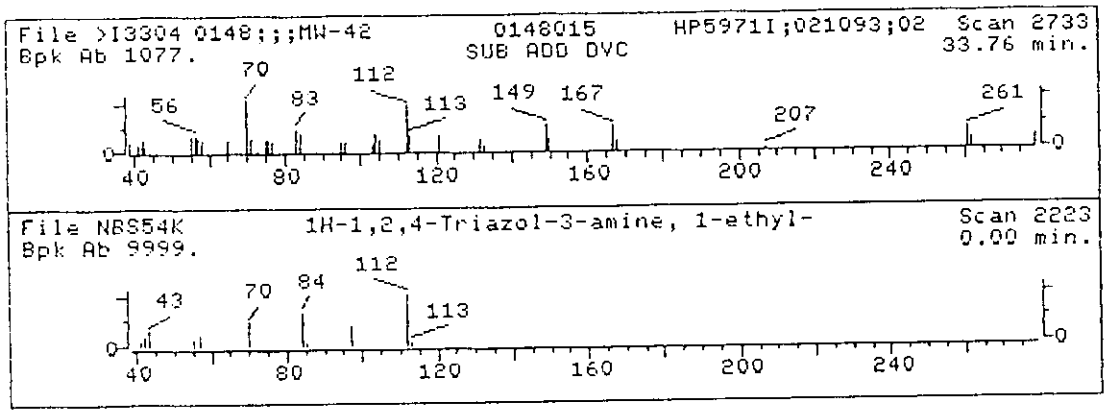


.. 1H-1,2,4-Triazol-3-amine, 1-ethyl- 112 C4H8N4

Sample file: >I3304 Spectrum #: 2733
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11*	42786049	12575	NBS54K	24	68	3	0	87	64	2	12

Peak#: 36 Area: 41326. Est Conc: 4. Date: 02/19/93 12:42 Inst: I

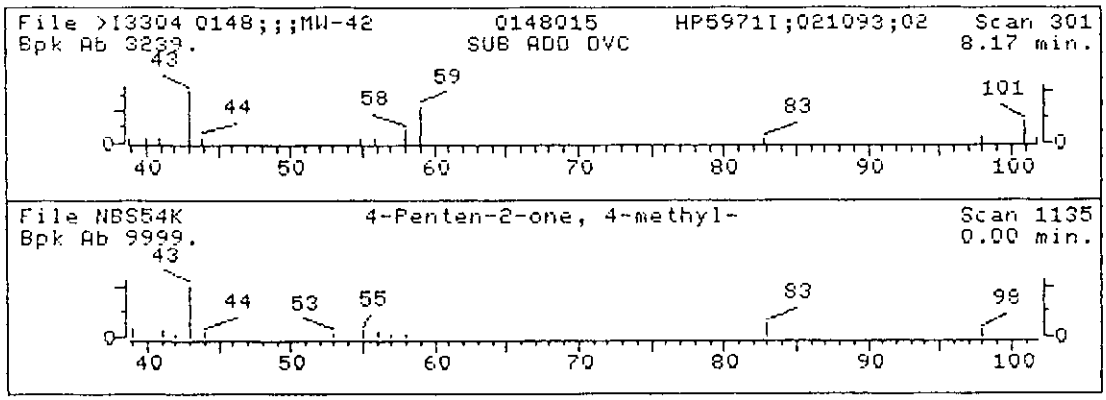


. 4-Penten-2-one, 4-methyl- 98 C6H10O

Sample file: >I3304 Spectrum #: 301
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	3744023	9897	NBS54K	26	53	2	0	71	48	7	14

Peak#: 1 Area: 20013. Est Conc: 4. Date: 02/19/93 12:42 Inst: I

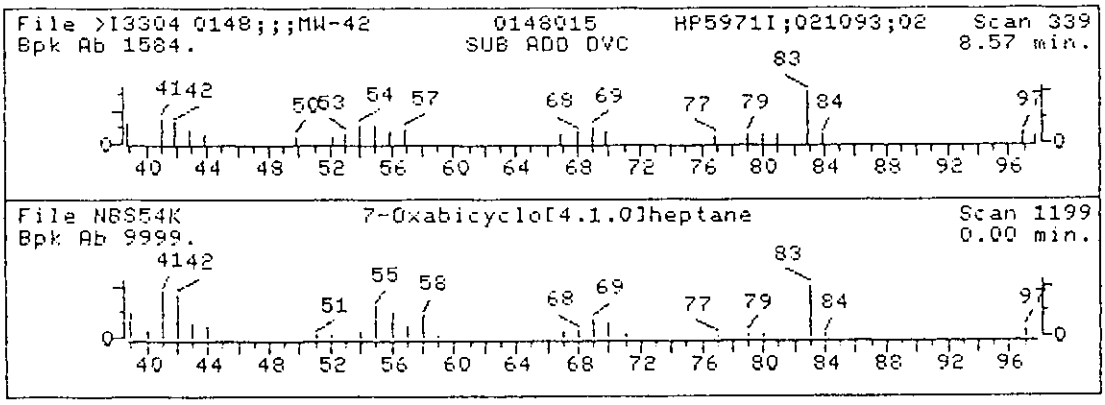


. 7-Oxabicyclo[4.1.0]heptane 98 C6H10O

Sample file: >I3304 Spectrum #: 339
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	286204	6469	NBS54K	27	73	1	0	44	52	5	15

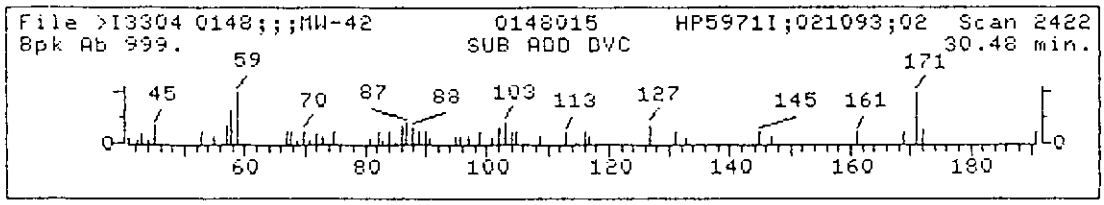
Peak#: 2 Area: 20253. Est Conc: 4. Date: 02/19/93 12:42 Inst: I



Sample file: >I3304 Spectrum #: 2422

No data base entries were retrieved.

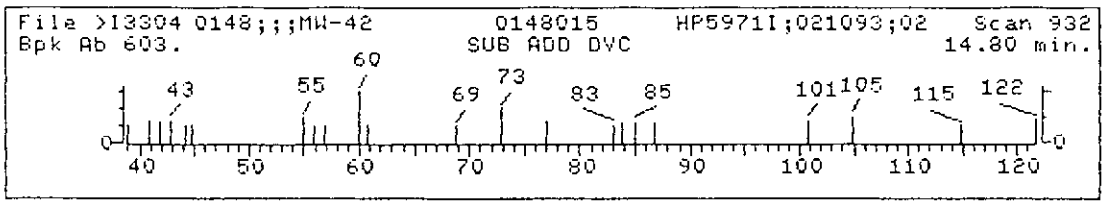
Peak#: 29 Area: 29664. Est Conc: 3. Date: 02/19/93 12:42 Inst: I



Sample file: >I3304 Spectrum #: 932

No data base entries were retrieved.

Peak#: 9 Area: 20940. Est Conc: 3. Date: 02/19/93 12:42 Inst: I



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MHW-2

ab Name: IEA/CT Contract: 0546

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3305.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	1	J
91-20-3	Naphthalene	0.7	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0547 | MHW-2

ab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3305.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	0.9	J
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.8	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	7	J
120-12-7	Anthracene	2	J
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.9	JB
206-44-0	Fluoranthene	16	
129-00-0	Pyrene	10	J
85-68-7	Butylbenzylphthalate	\ ~~10~~	~~U~~ J
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	3	J
218-01-9	Chrysene	7	J
117-81-7	bis(2-Ethylhexyl)phthalate	4	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	4	J
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

gmc 4/5/93

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0548

EPA SAMPLE NO.

MHW-2

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3305.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 21 (max 20 aspp)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

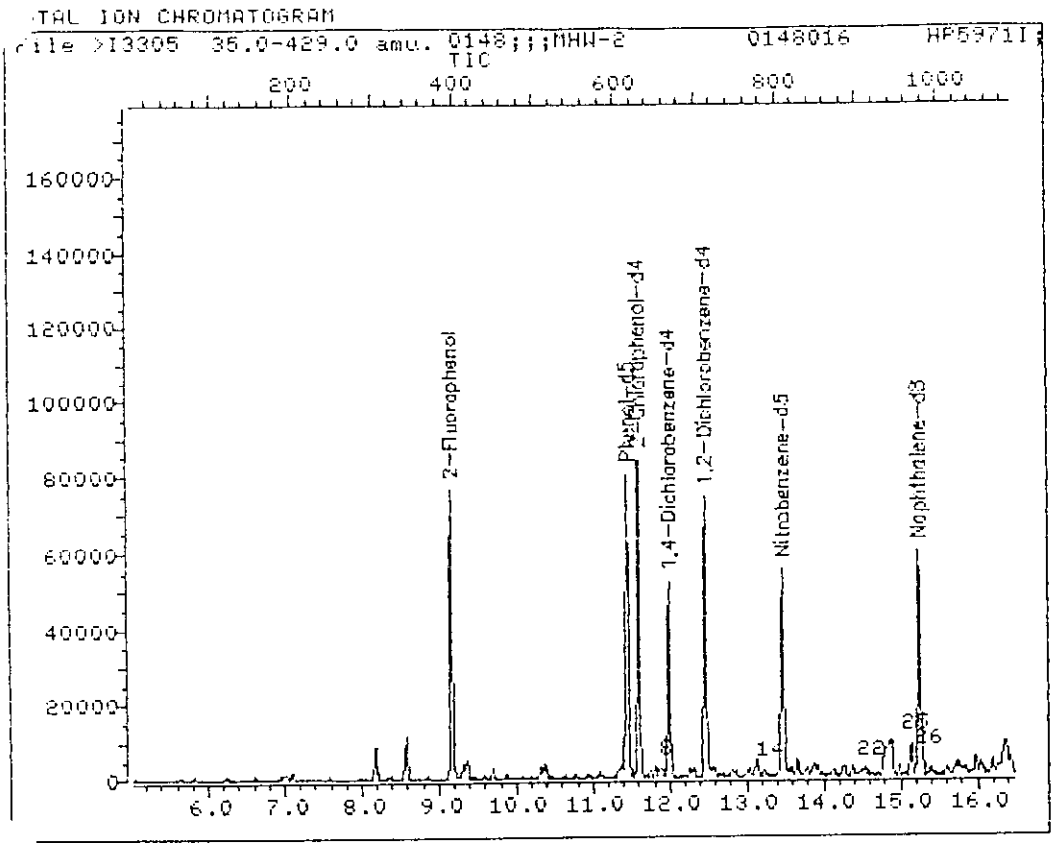
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	19.53	8	J
2.		UNKNOWN ACID	25.27	6	J
3.		UNKNOWN	8.57	6	JB
4.			25.46	5	J
5.			16.38	4	J
6.			17.37	4	J
7.		ALDOL CONDENSATION PRODUCT	8.18	4	JAB
8.		UNKNOWN	13.18	3	J
9.			17.83	3	J
10.			14.80	3	J
11.		UNKNOWN ACID	20.55	3	J
12.		UNKNOWN	23.71	3	J
13.			15.14	3	J
14.			11.38	3	J
15.	84657	9,10-ANTHRACENEDIONE	25.99	3	JN
16.		UNKNOWN	27.31	3	J
17.			16.64	3	J
18.			29.52	3	J
19.			33.76	3	J
20.			22.35	2	J
21.			26.93	2	J
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

Operator ID: USER1 Quant Rev: 7 Quant Time: 930222 17:51
Output File: ^I3305::A6 Injected at: 930219 13:42
Data File: >I3305::A5 Dilution Factor: .51000
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

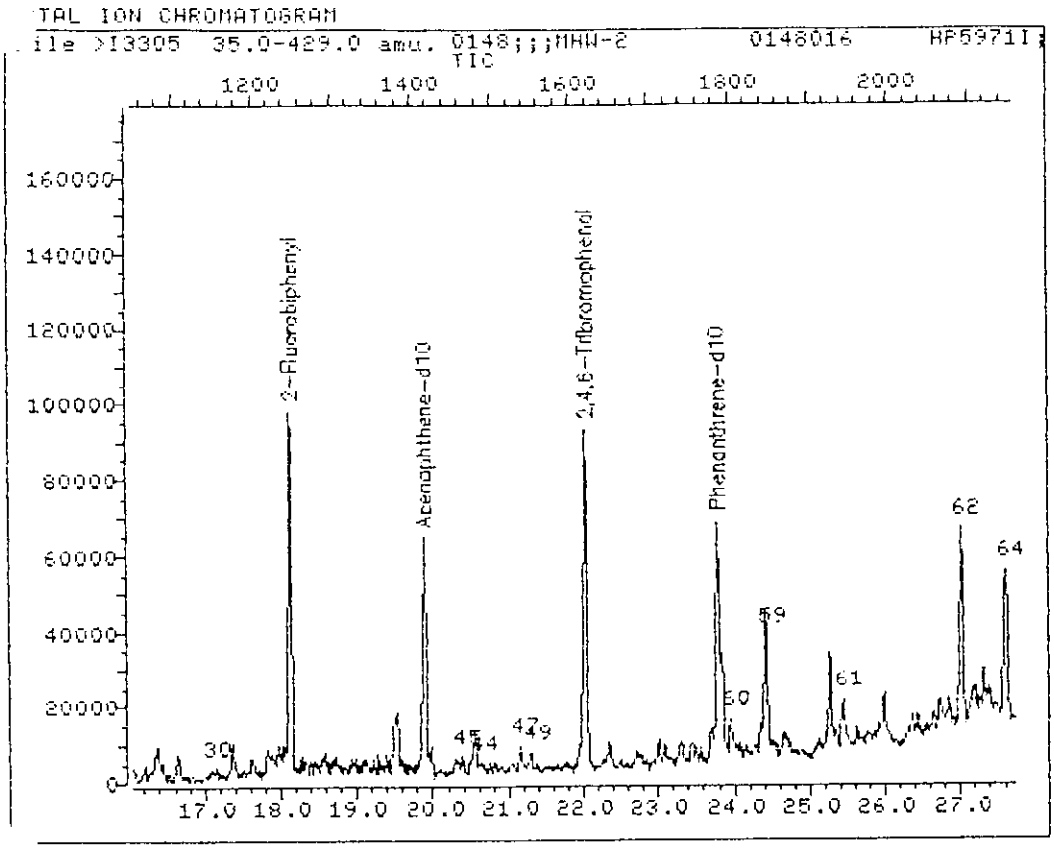
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.00	151.8	17941	40.00	ug	94
2)	2-Chlorophenol-d4	11.60	132.0	61845	55.03	ug	80
3)	2-Fluorophenol	9.16	111.8	60345	52.54	ug	73
4)	Phenol-d5	11.46	98.8	89323	56.92	ug	60
9)	1,3-Dichlorobenzene	11.98	146.8	590	.489	ug	55
10)	1,2-Dichlorobenzene-d4	12.47	152.0	27791	37.83	ug	93
14)	4-Methylphenol	13.23	107.8	1160	.948	ug	88
17)	*Naphthalene-d8	15.25	135.9	66768	40.00	ug	97
18)	Nitrobenzene-d5	13.48	81.8	47056	35.90	ug	70
19)	2,4-Dimethylphenol	14.53	106.8	551	.455	ug	99
29)	1,2,4-Trichlorobenzene	15.14	179.7	1257	1.08	ug	90
26)	Naphthalene	15.30	127.9	2337	.745	ug	89
30)	2-Methylnaphthalene	17.10	141.9	1157	.506	ug	83
31)	*Acenaphthene-d10	19.90	163.9	38722	40.00	ug	96
35)	2-Fluorobiphenyl	18.13	171.8	82288	35.21	ug	97
42)	Acenaphthene	19.97	152.9	1597	.033	ug	89
44)	4-Nitrophenol	20.61	108.8	120	.377	ug	35
45)	Dibenzofuran	20.39	167.8	2565	.856	ug	83
47)	Diethylphthalate	21.16	148.8	2019	.757	ug	70
49)	Fluorene	21.31	165.9	2575	1.32	ug	88
51)	2,4,6-Tribromophenol	22.04	329.6	35290	63.71	ug	93
52)	*Phenanthrene-d10	23.79	187.9	72759	40.00	ug	98
58)	Phenanthrene	23.85	177.9	22365	6.80	ug	97
59)	Carbazole	24.43	166.8	5298	5.50	ug	89
60)	Anthracene	23.96	177.9	5274	1.56	ug	67
61)	Di-n-butylphthalate	25.45	148.8	3893	.862	ug	76
62)	Fluoranthene	27.03	201.9	57799	15.81	ug	98
63)	*Chrysene-d12	31.07	240.0	59093	40.00	ug	97
64)	Pyrene	27.61	201.9	37648	10.30	ug	99
65)	Terphenyl-d14	28.05	244.0	80057	31.35	ug	99
66)	Butylbenzylphthalate	29.38	148.8	3021	1.44	ug	78
68)	Benzo(a)anthracene	31.01	228.0	10295	3.17	ug	93
69)	Chrysene	31.15	228.0	19409	7.04	ug	97
70)	bis(2-Ethylhexyl)phthalate	31.19	148.8	9262	3.56	ug	97
)	*Perylene-d12	37.74	264.0	60212	40.00	ug	99
77)	Benzo(b)fluoranthene	35.55	252.0	12409	3.65	ug	42
78)	Benzo(k)fluoranthene	35.55	252.0	12409	4.10	ug	67
79)	Indeno(1,2,3-cd)pyrene	45.80	276.0	2301	.731	ug	90
80)	Benzo(g,h,i)perylene	48.26	276.0	2379	.774	ug	12



Data File: >I3305::A5 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

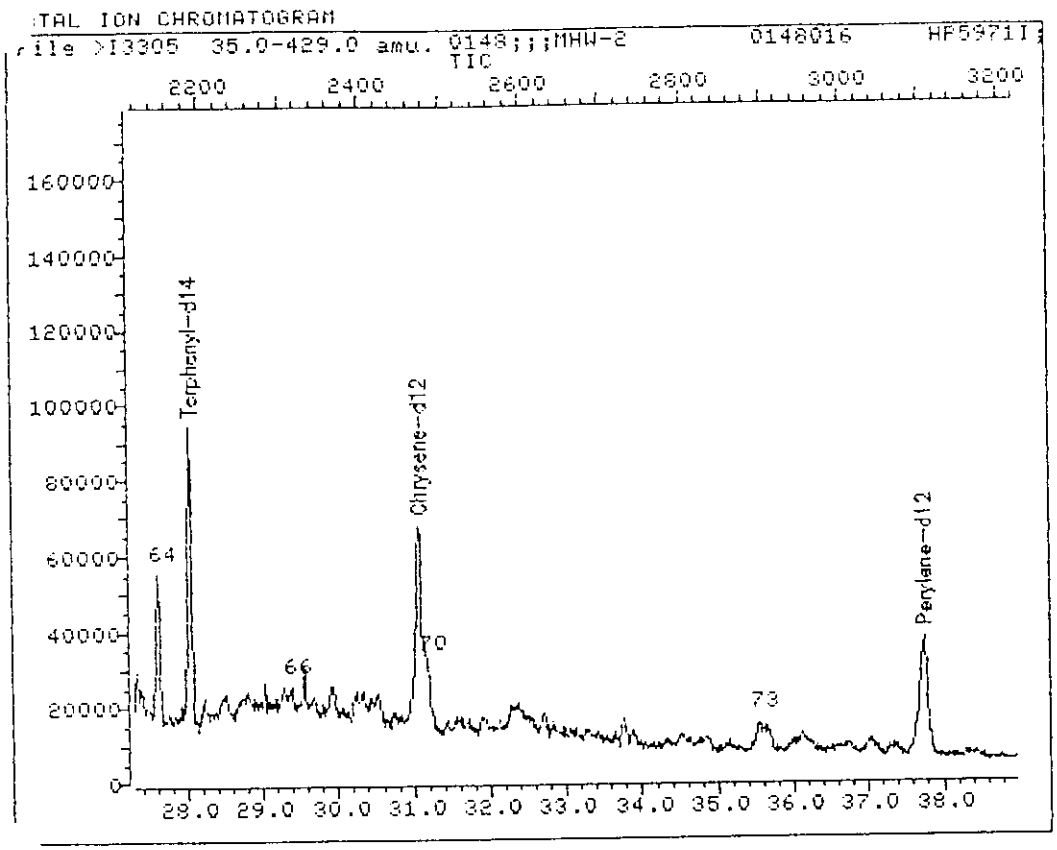
Operator ID: USER1
Quant Time : 930222 17:51
Injected at: 930219 13:42



Data File: >I3305::A5 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:51
Injected at: 930219 13:42



Data File: >I3305::A5 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
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Operator ID: USER1
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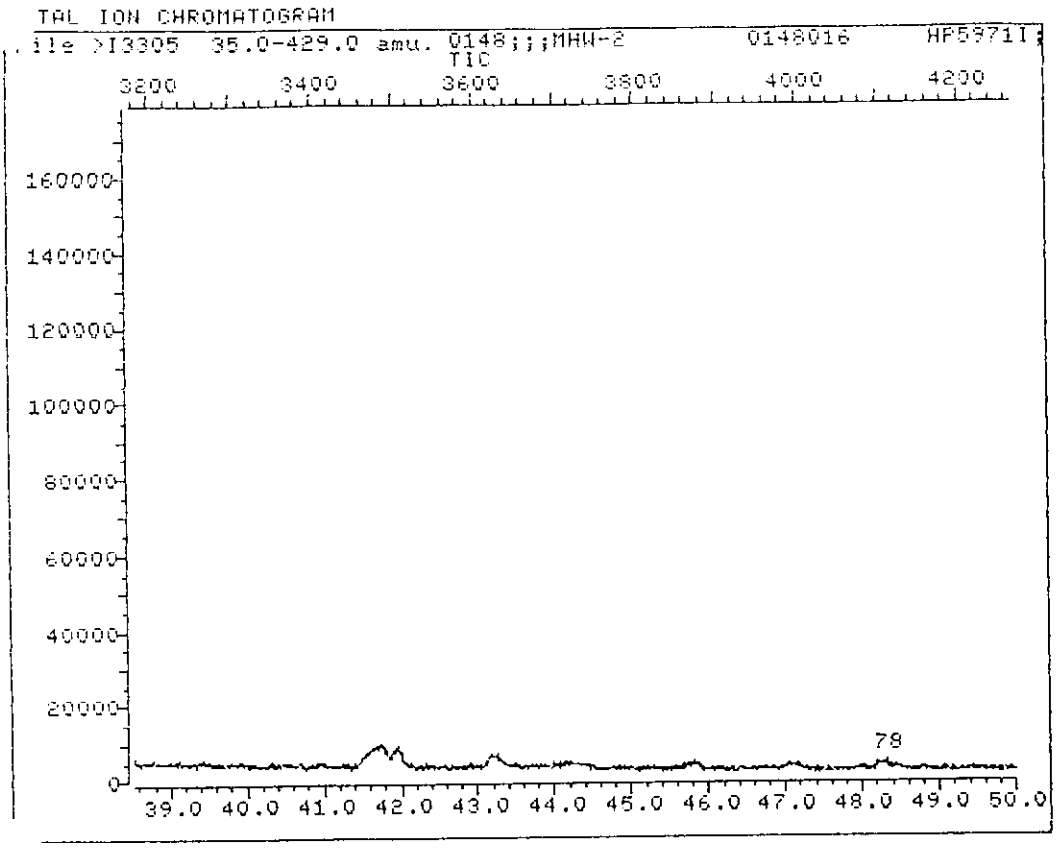
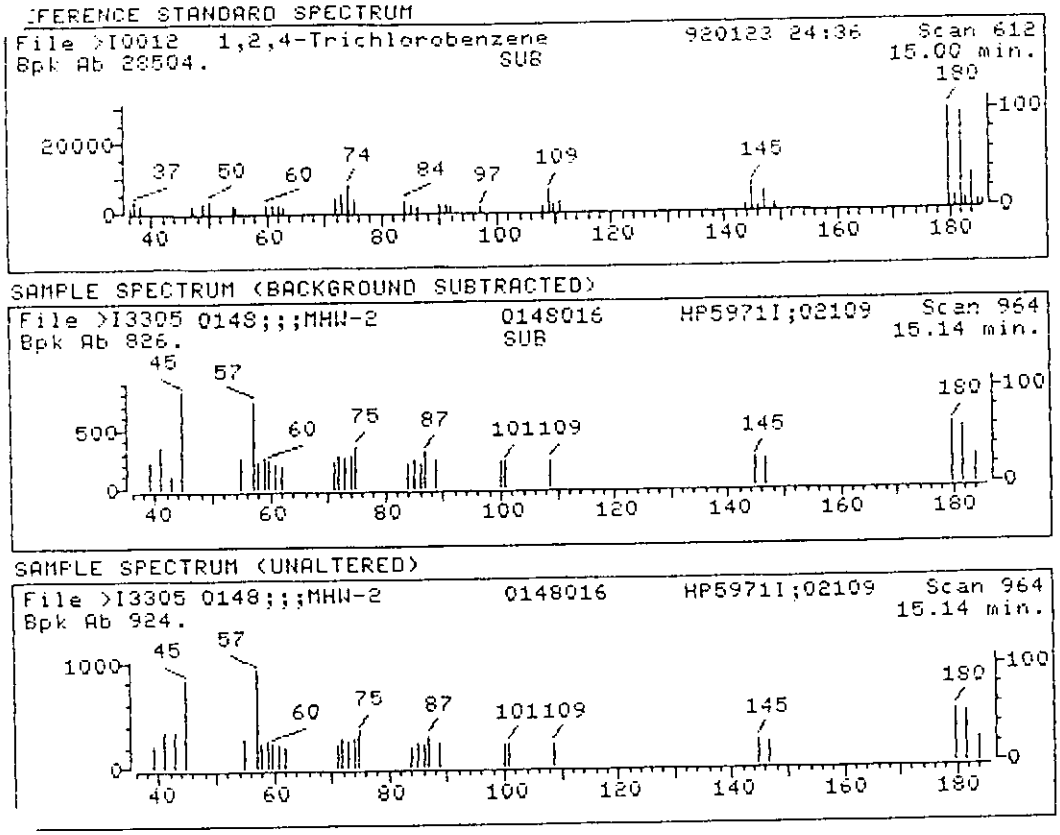


Data File: >I3305::A5 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:51
Injected at: 930219 13:42



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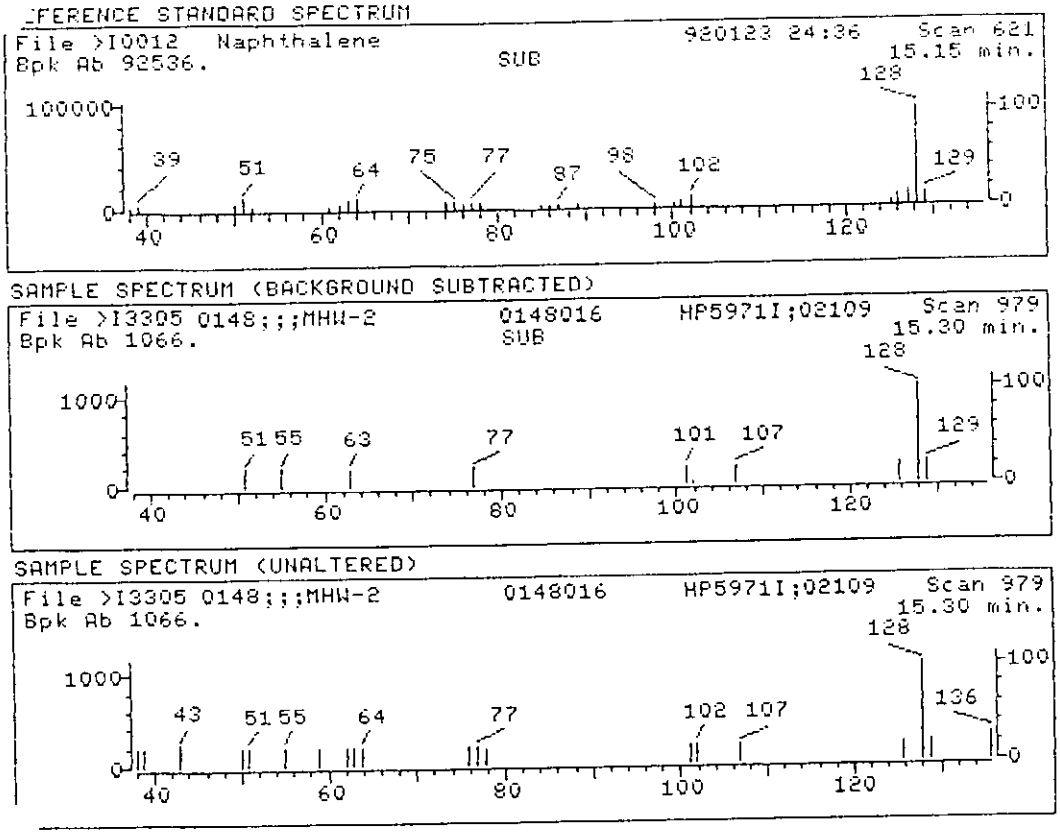
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 25
Compound Name : 1,2,4-Trichlorobenzene
Scan Number : 964
Retention Time: 15.14 min.
Quant Ion : 179.7
Area : 1257
Concentration : 1.08 ug
q-value : 90



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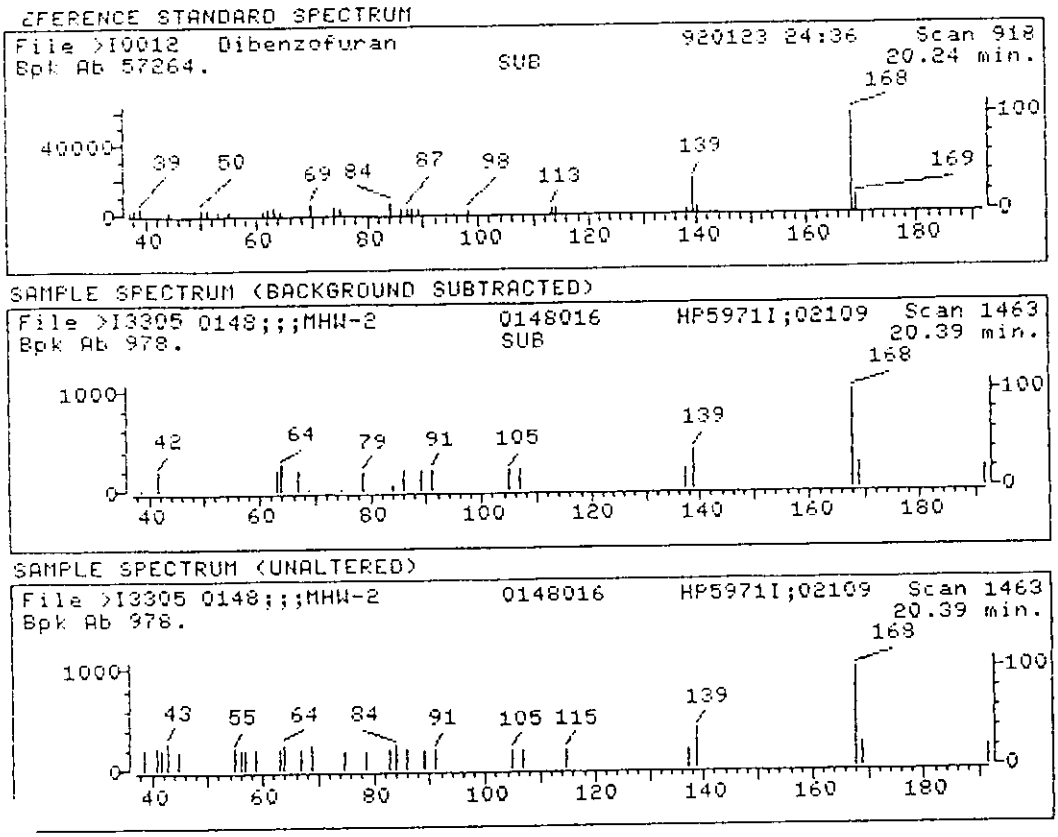
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42
Injected at: 930219 13:42
Last Qcal Time: 930219 10:28

Quant Output File: ^I3305::A6
Instrument ID: **MSD
Quant ID File: I_IFI::A5
Last Calibration: 910116 11:52

Compound No : 26
Compound Name : Naphthalene
Scan Number : 979
Retention Time: 15.30 min.
Quant Ion : 127.9
Area : 2337
Concentration : .745 ug
q-value : 89



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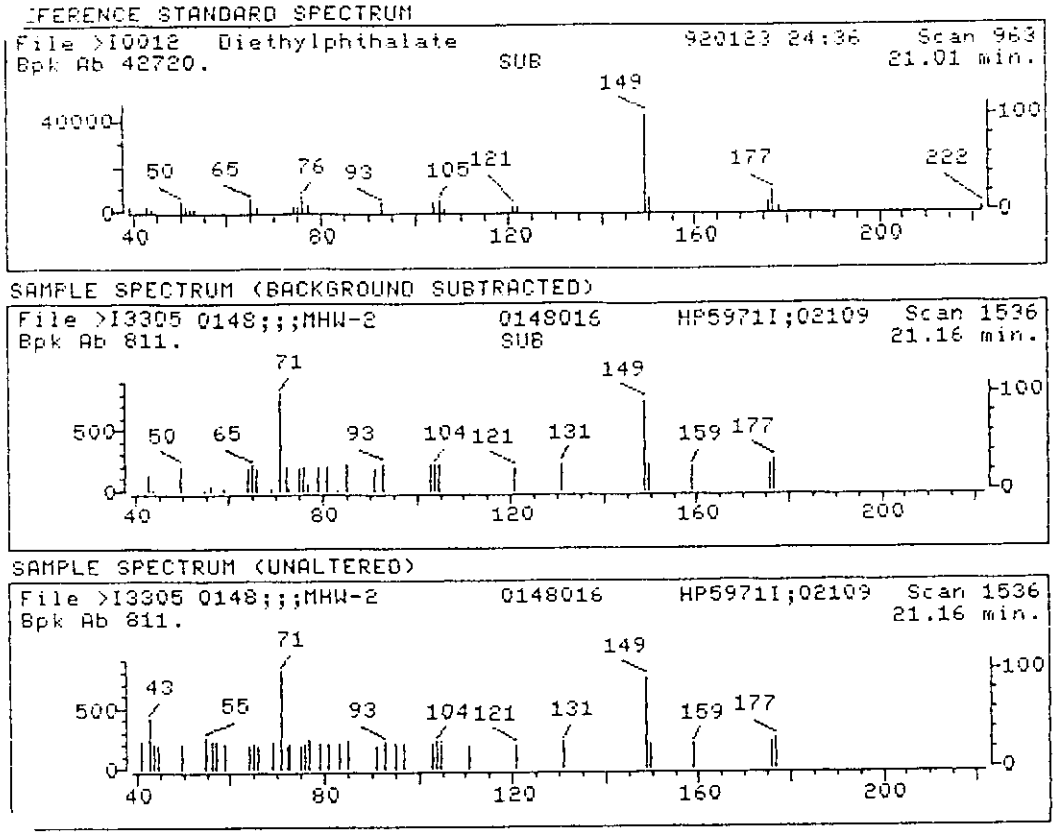
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

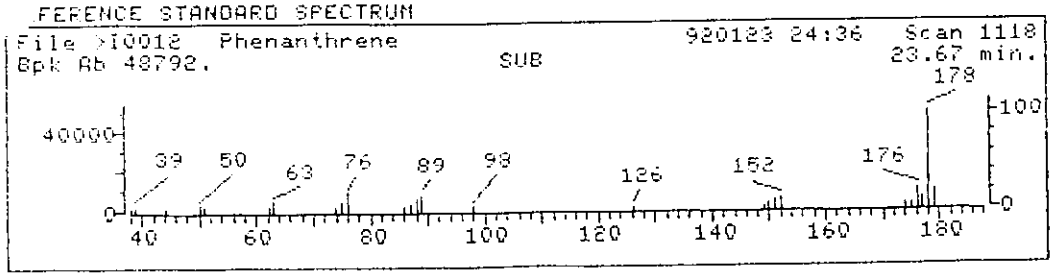
Compound No : 45
Compound Name : Dibenzofuran
Scan Number : 1463
Retention Time: 20.39 min.
Quant Ion : 167.8
Area : 2565
Concentration : .856 ug
q-value : 83



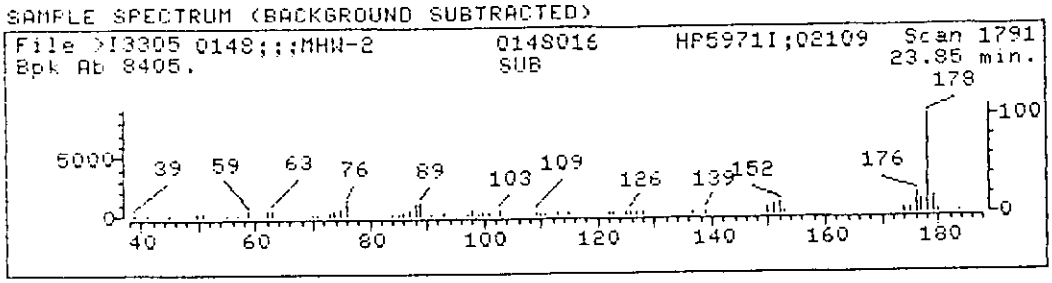
Data File: >I3305::A2 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 47
Compound Name : Diethylphthalate
Scan Number : 1536
Retention Time: 21.16 min.
Quant Ion : 148.8
Area : 2019
Concentration : .757 ug
q-value : 70

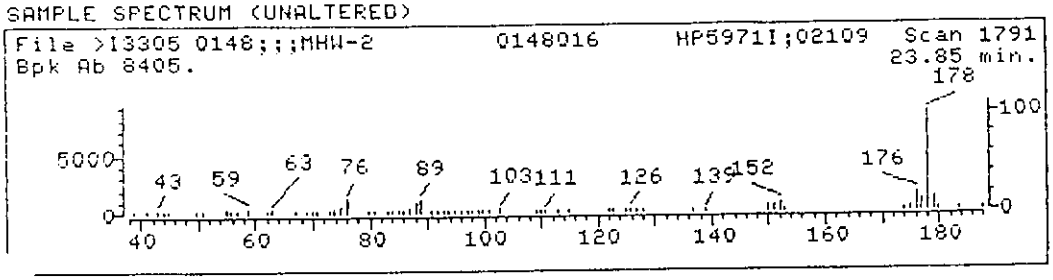
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

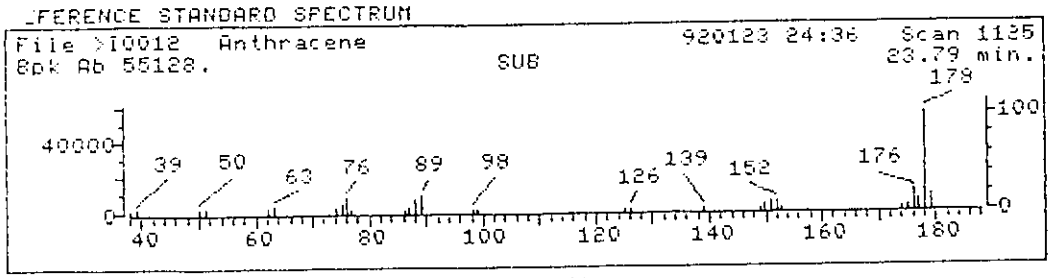


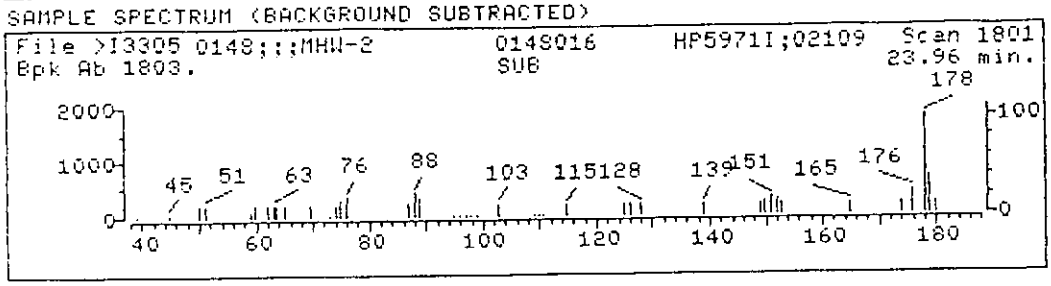
SAMPLE SPECTRUM (UNALTERED)

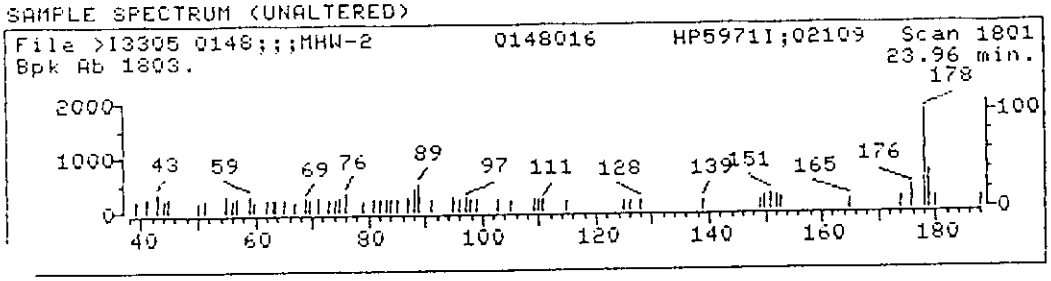


Data File: >I3305::A2 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 58
Compound Name : Phenanthrene
Scan Number : 1791
Retention Time: 23.85 min.
Quant Ion : 177.9
Area : 22365
Concentration : 6.80 ug
q-value : 97



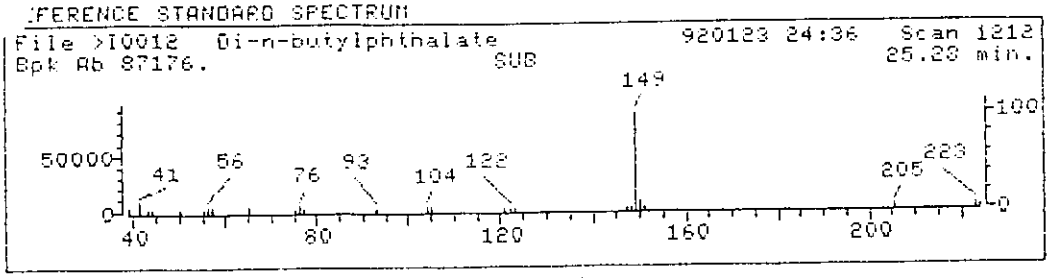




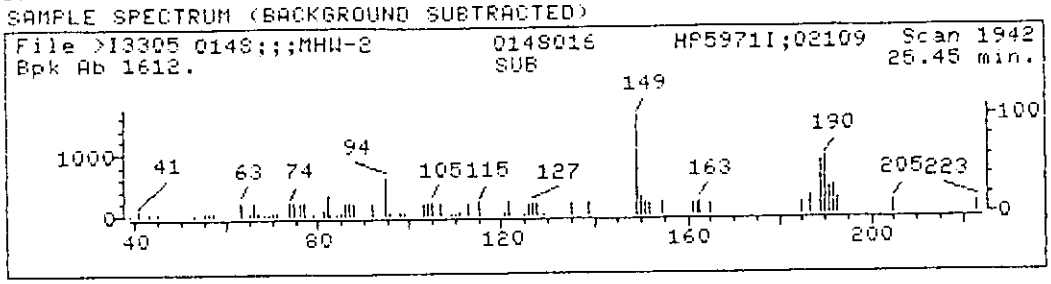
Data File: >I3305::A2 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 60
Compound Name : Anthracene
Scan Number : 1801
Retention Time: 23.96 min.
Quant Ion : 177.9
Area : 5274
Concentration : 1.56 ug
q-value : 67

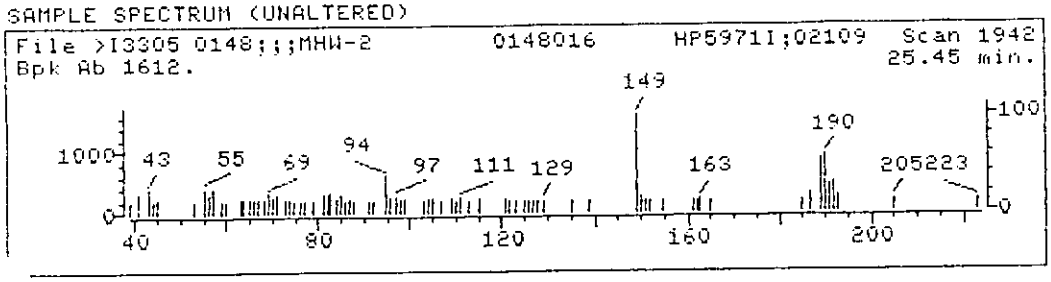
:FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

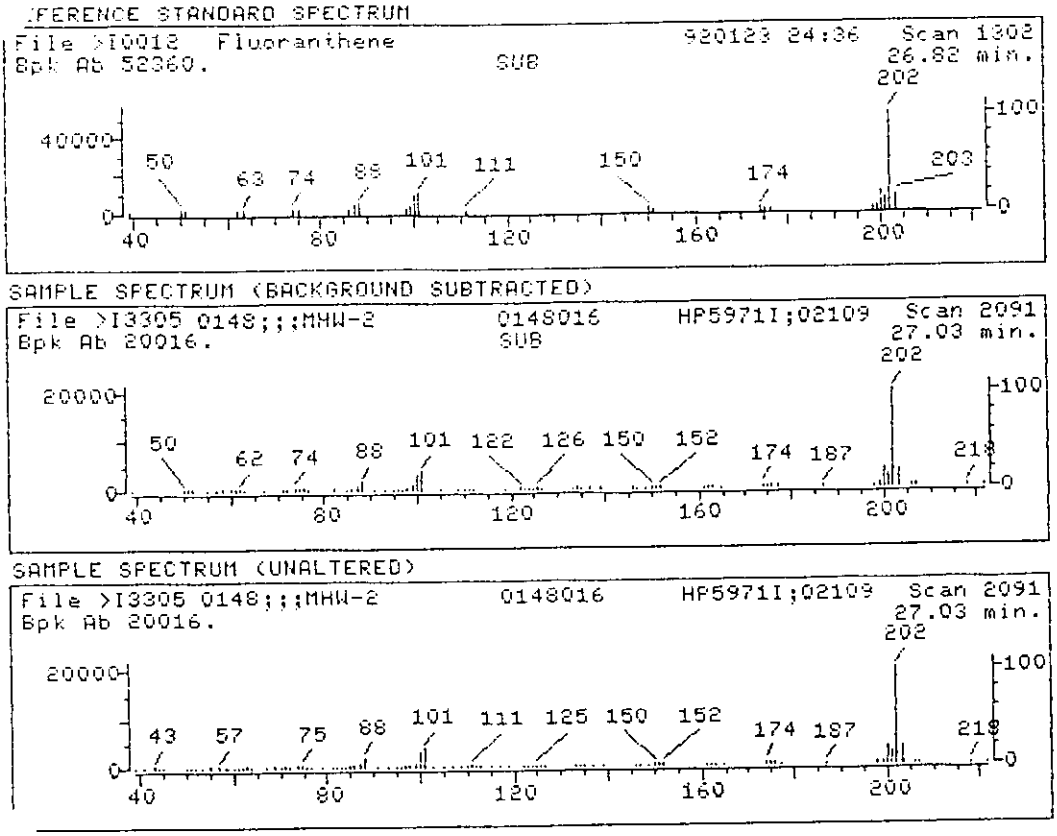


SAMPLE SPECTRUM (UNALTERED)



Data File: >I3305::A2 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

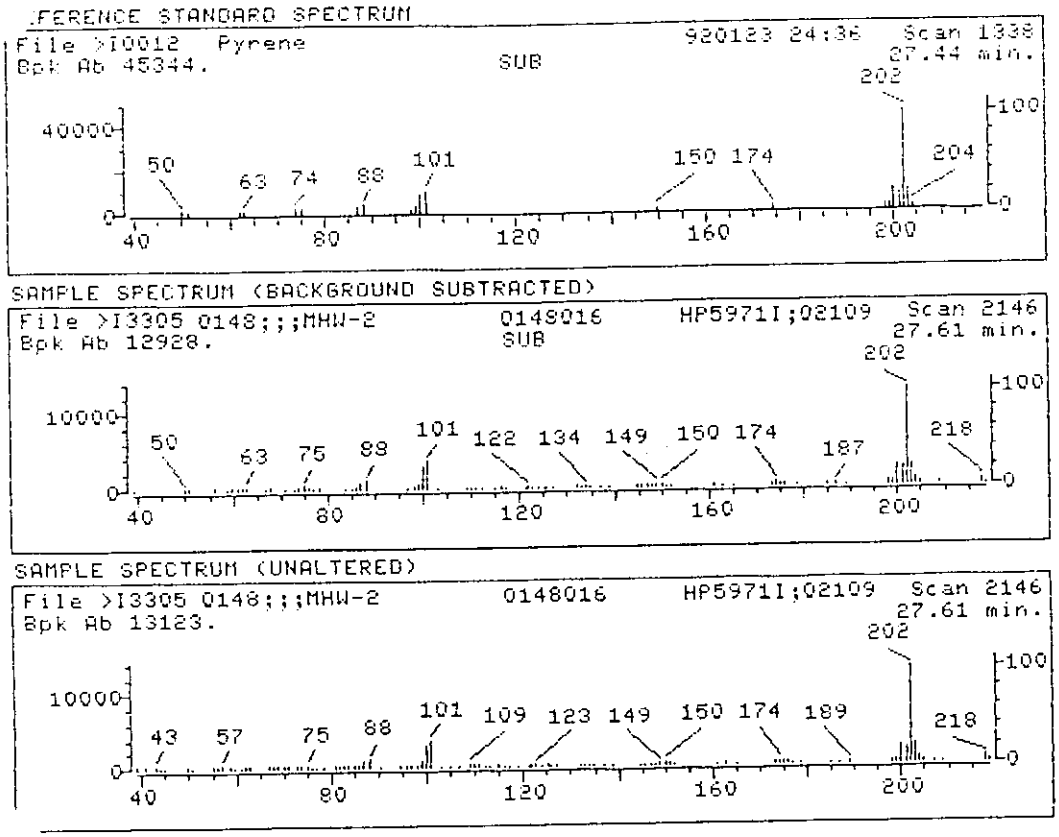
Compound No : 61
Compound Name : Di-n-butylphthalate
Scan Number : 1942
Retention Time: 25.45 min.
Quant Ion : 148.8
Area : 3893
Concentration : .862 ug
q-value : 76



Data File: >I3305::A2
Name: 0148;;;MHW-2
Misc: 0148016 HP59711;021093;021193;LLW;1;;;102
Quant Time: 930219 14:42
Injected at: 930219 13:42
Last Qcal Time: 930219 10:28

Quant Output File: ^I3305::A6
Instrument ID: **MSD
Quant ID File: I_IFI::A5
Last Calibration: 910116 11:52

Compound No : 62
Compound Name : Fluoranthene
Scan Number : 2091
Retention Time: 27.03 min.
Quant Ion : 201.9
Area : 57799
Concentration : 15.81 ug
q-value : 98



Data File: >I3305::A2
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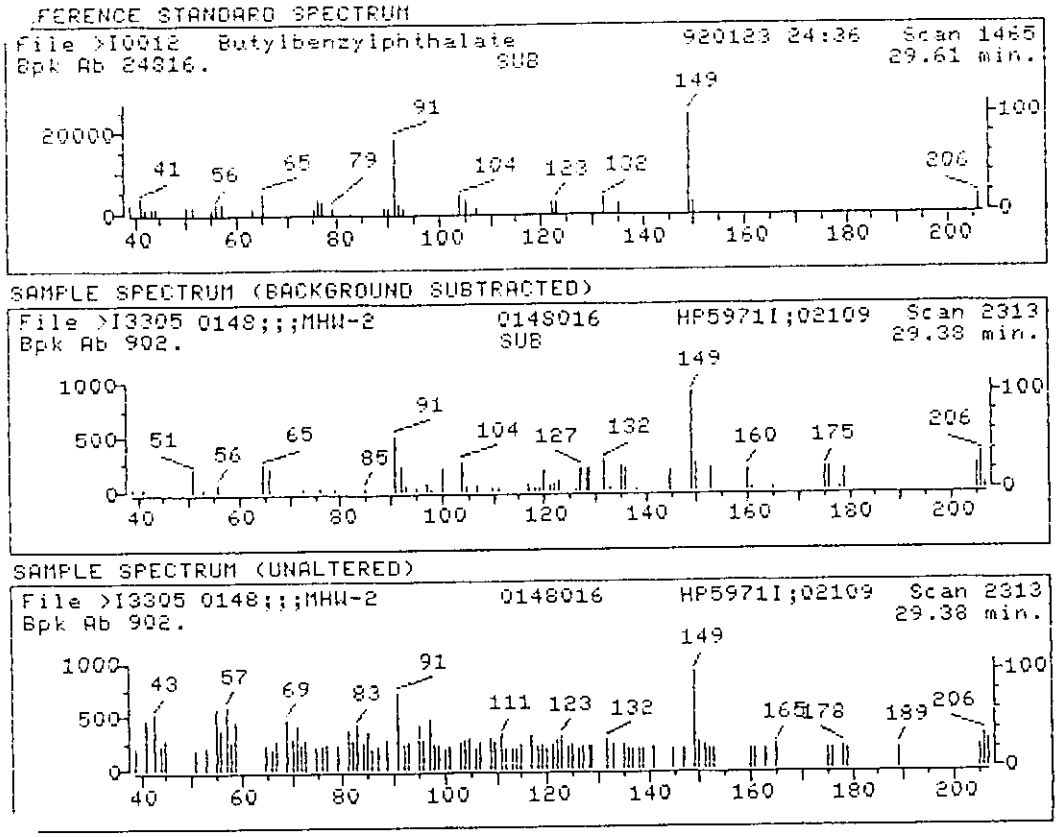
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42
Injected at: 930219 13:42
Last Qcal Time: 930219 10:28

Quant Output File: ^I3305::A6
Instrument ID: **MSD
Quant ID File: I_IFI::A5
Last Calibration: 910116 11:52

Compound No : 64
Compound Name : Pyrene
Scan Number : 2146
Retention Time: 27.61 min.
Quant Ion : 201.9
Area : 37648
Concentration : 10.30 ug
q-value : 99



Data File: >I3305::A2 Quant Output File: ^I3305::A6
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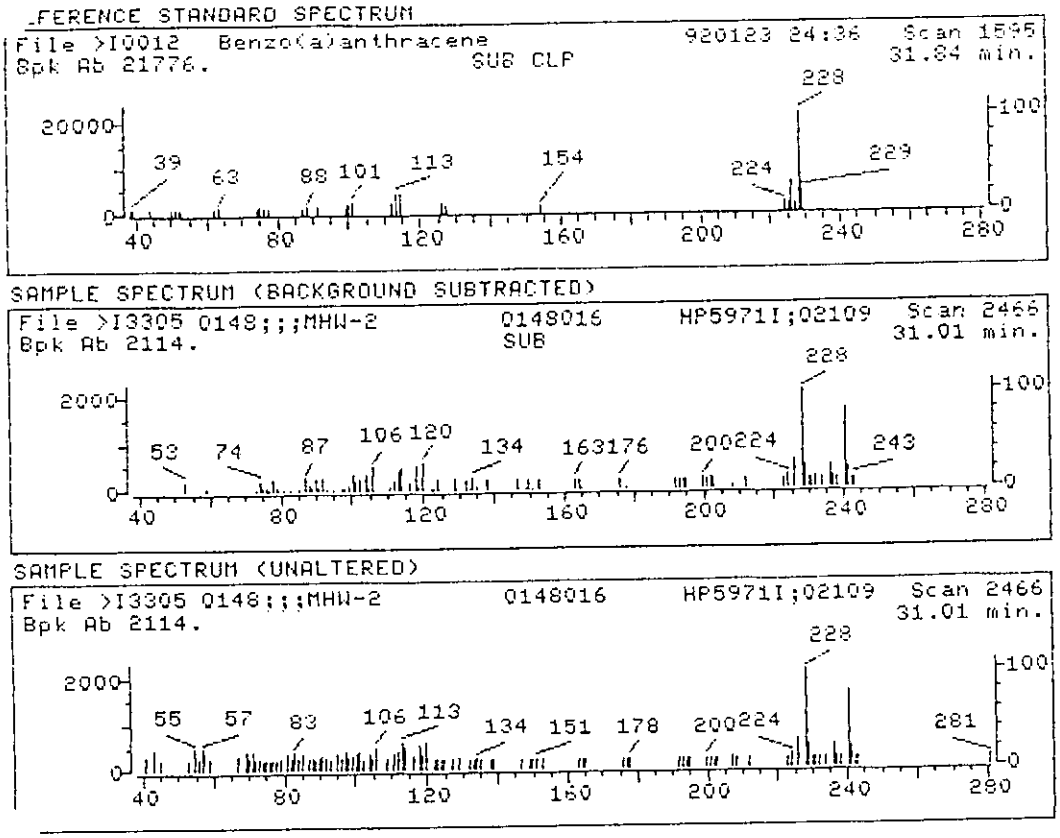
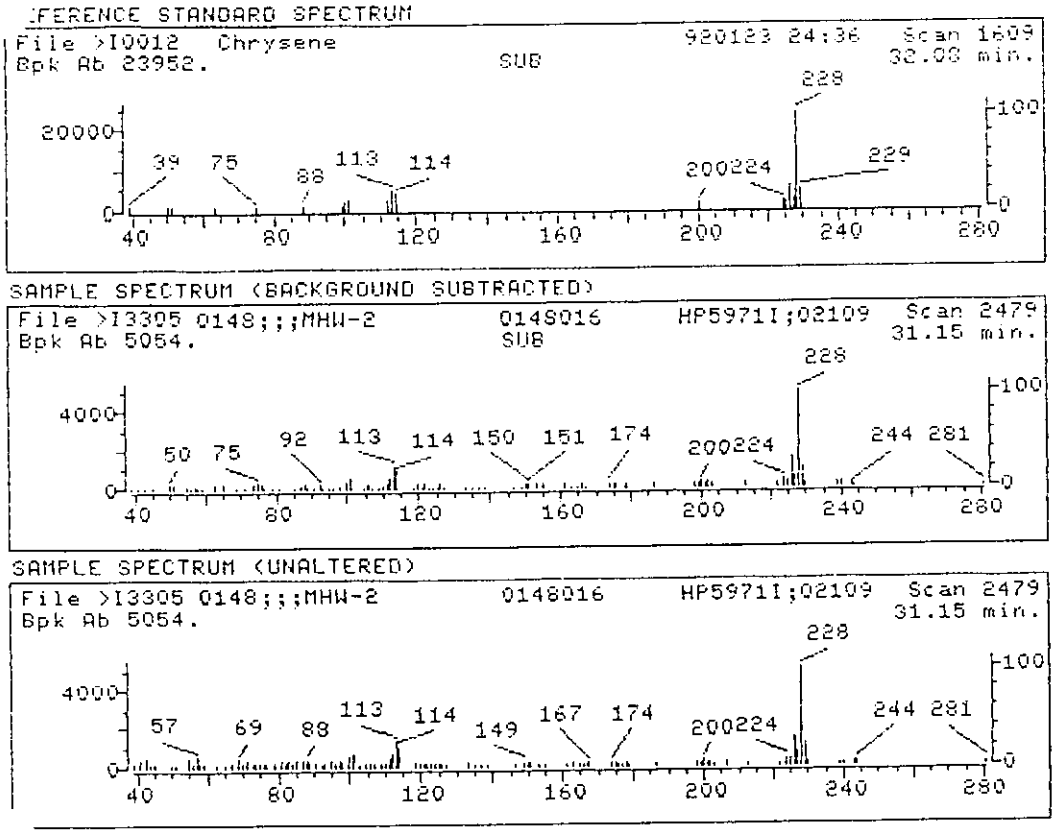
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 66
Compound Name : Butylbenzylphthalate
Scan Number : 2313
Retention Time: 29.38 min.
Quant Ion : 148.8
Area : 3021
Concentration : 1.44 ug
q-value : 78



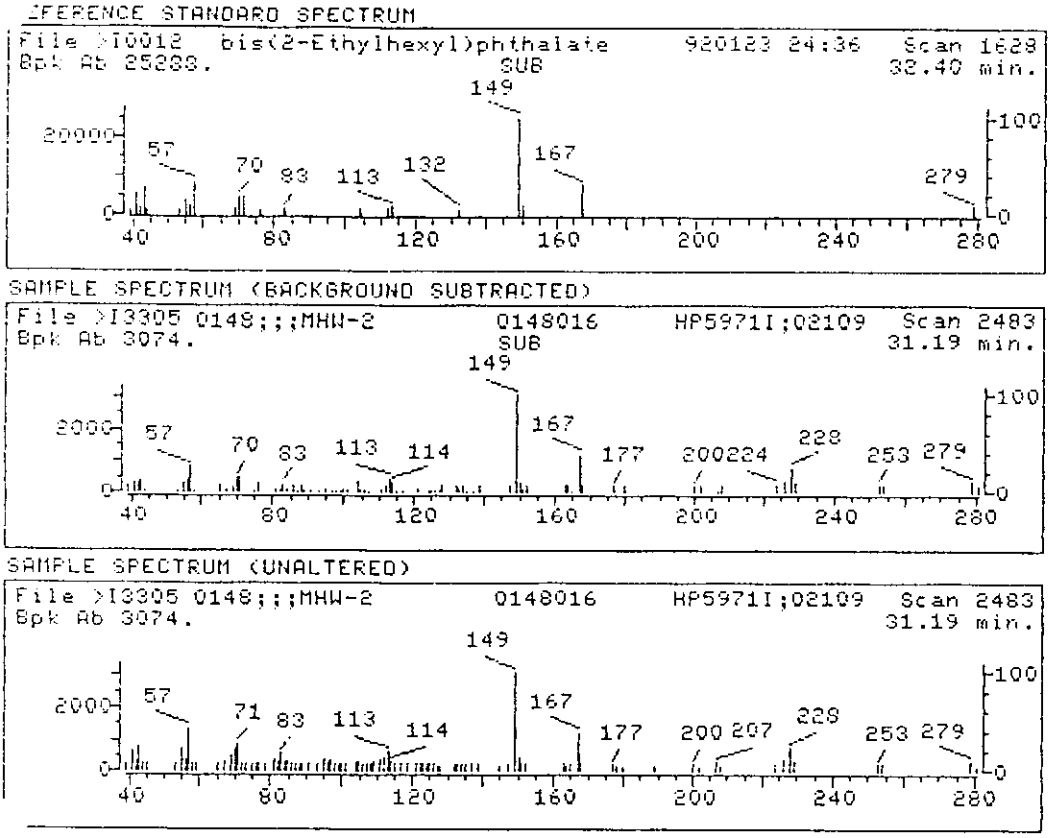
Data File: >I3305::A2 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 68
Compound Name : Benzo(a)anthracene
Scan Number : 2466
Retention Time: 31.01 min.
Quant Ion : 228.0
Area : 10295
Concentration : 3.17 ug
q-value : 93



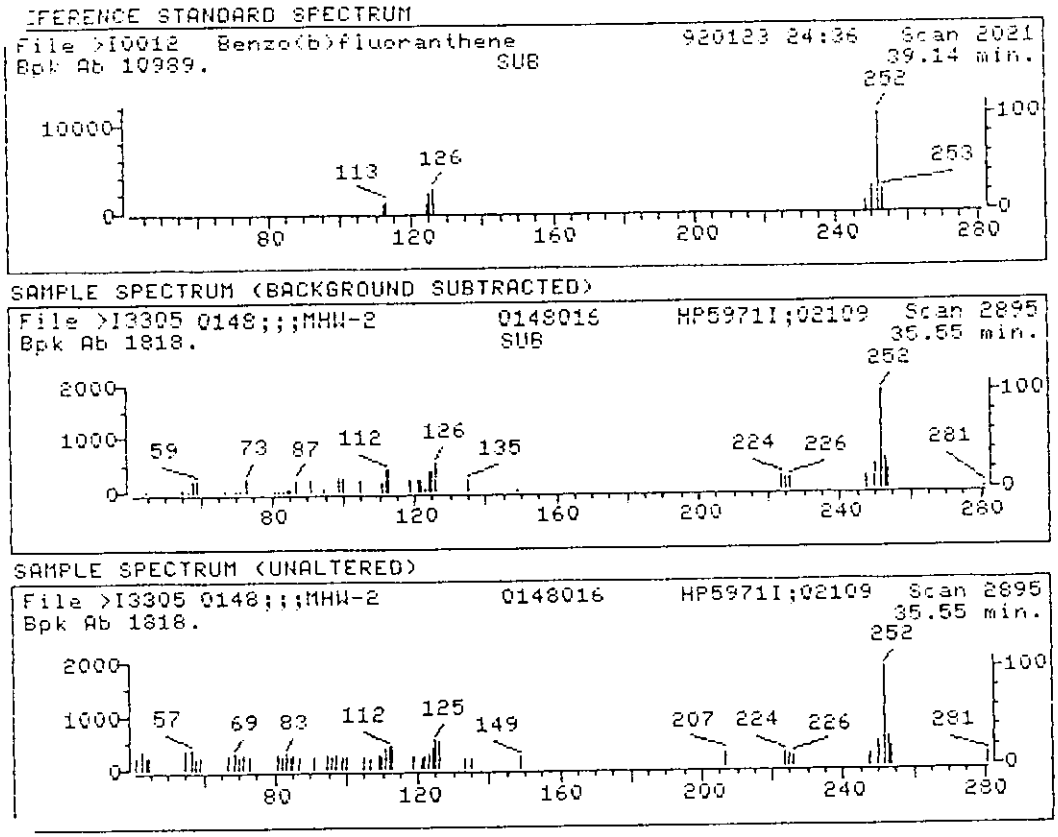
Data File: >I3305::A2 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 69
Compound Name : Chrysene
Scan Number : 2479
Retention Time: 31.15 min.
Quant Ion : 228.0
Area : 19409
Concentration : 7.04 ug
q-value : 97



Data File: >I3305::A2 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 70
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 2483
Retention Time: 31.19 min.
Quant Ion : 148.8
Area : 9262
Concentration : 3.56 ug
q-value : 97



Data File: >I3305::A2 Quant Output File: ^I3305::A6
Name: 0148;;;MHW-2 Instrument ID: **MSD
Misc: 0148016 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 14:42 Quant ID File: I_IFI::A5
Injected at: 930219 13:42 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

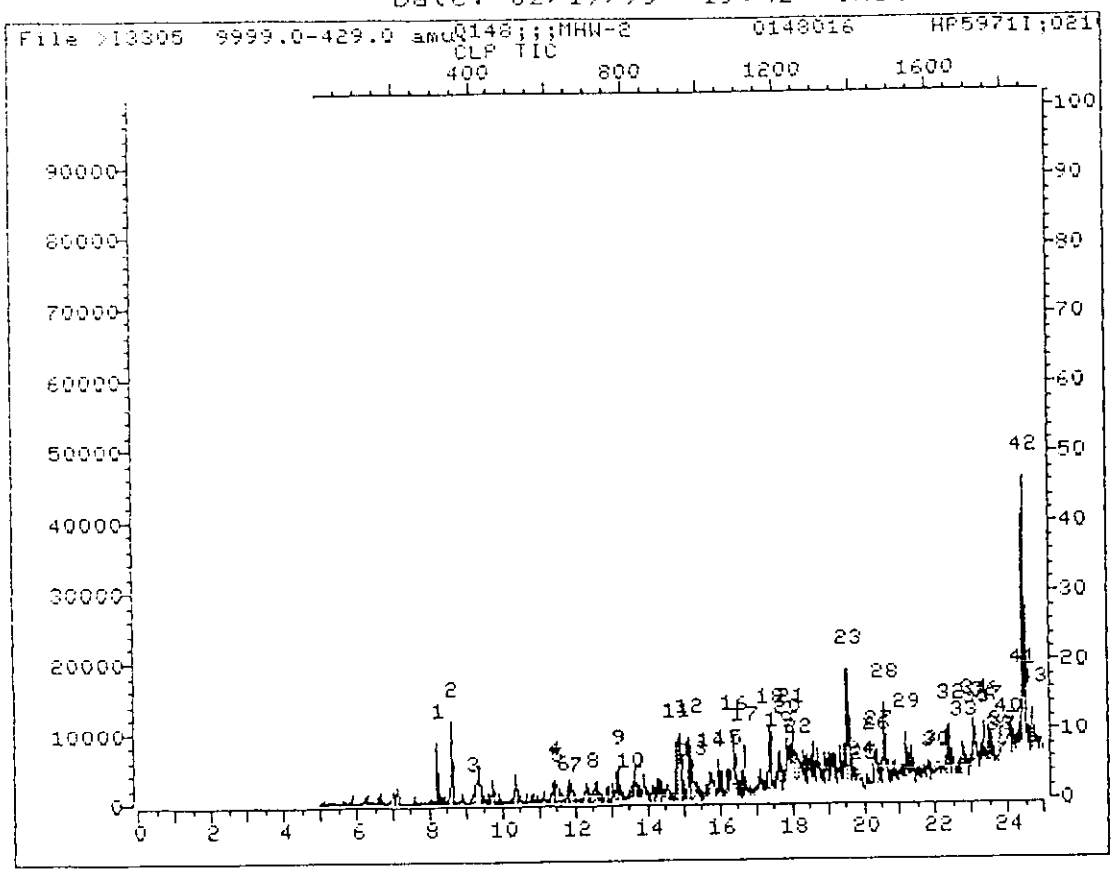
Compound No : 73
Compound Name : Benzo(b)fluoranthene
Scan Number : 2895
Retention Time: 35.55 min.
Quant Ion : 252.0
Area : 12409
Concentration : 3.65 ug
q-value : 42

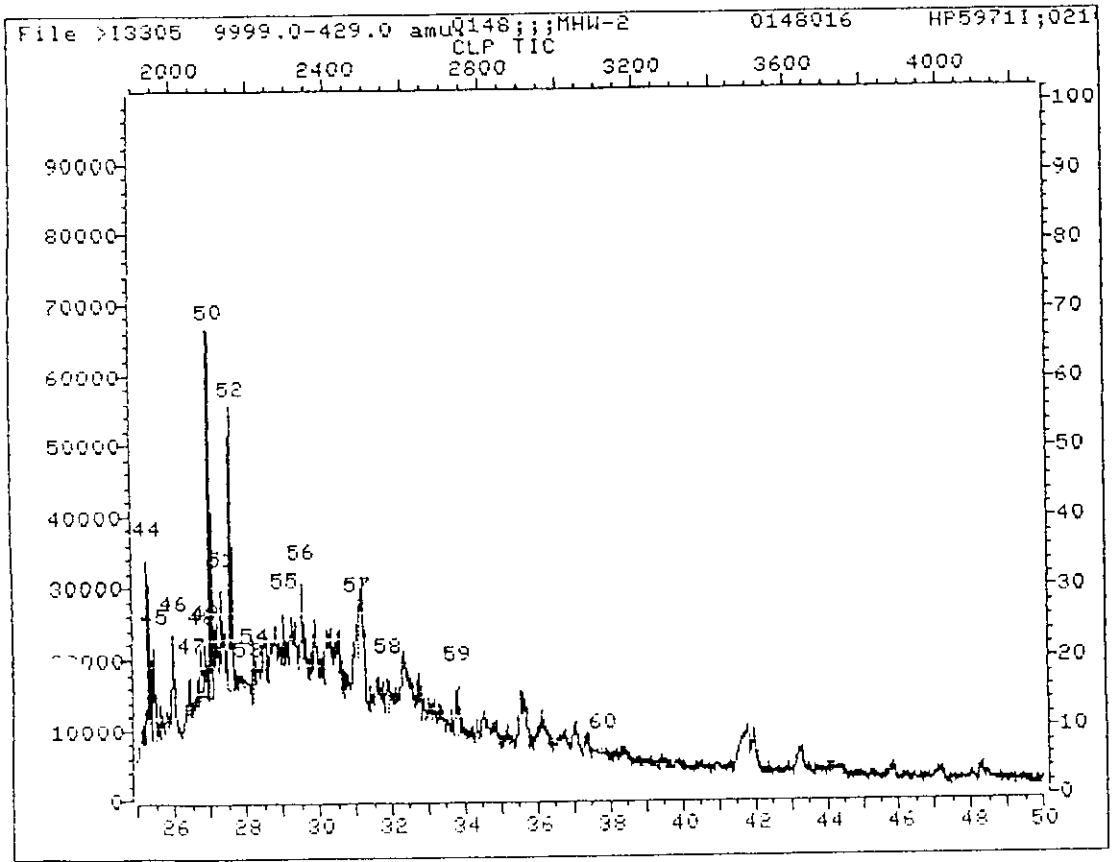
M Data file header from : >I3309::A2

Sample: 0148;;;MHW-2 Operator: USER1 2/19/93 13:42
Misc : 0148016 HP5971I;021093;021193;LLW;1;;;I02
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 3 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

Date: 02/19/93 13:42 Inst: I





MHW-2
HP5971I

0570

Date: 02/19/93 13:42 Inst: I

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
~~52.~~	~~27.61~~	~~143332.~~	~~14.~~	~~5.~~	.51 Target
23.	19.53	74041.	8.	3.	.51
44.	25.27	61015.	6.	4.	.51
2.	8.57	26920.	6.	1.	.51
45.	25.45	47525.	5.	4.	.51
16.	16.38	27018.	4.	2.	.51
18.	17.37	32594.	4.	2.	.51
1.	8.18	21340.	4.	1.	.51
9.	13.13	13781.	3.	1.	.51
20.	17.83	22288.	3.	3.	.51
11.	14.80	21643.	3.	2.	.51
28.	20.55	24363.	3.	3.	.51
38.	23.71	28069.	3.	4.	.51
12.	15.14	22096.	3.	2.	.51
4.	11.38	13425.	3.	1.	.51
46.	25.99	29782.	3.	4.	.51
51.	27.31	26769.	3.	4.	.51
17.	16.64	24567.	3.	2.	.51
56.	29.54	25745.	3.	5.	.51
59.	33.76	32451.	3.	5.	.51
32.	22.35	22260.	2.	4.	.51
49.	26.73	23752.	2.	4.	.51
.	31.90	23379.	2.	5.	.51
40.	23.96	24439.	2.	4.	.51

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.00	99780.	0.00	13.62	5.6
NAPHTHALENE-D8	15.25	153758.	13.62	17.57	2.3
ACENAPHTHENE-D10	19.90	179307.	17.57	21.84	4.6
PHENANTHRENE-D10	23.79	204180.	21.84	27.43	2.8
CHRYSENE-D12	31.07	202939.	27.43	34.41	3.4
PERYLENE-D12	37.74	234964.	34.41	48.26	3.9

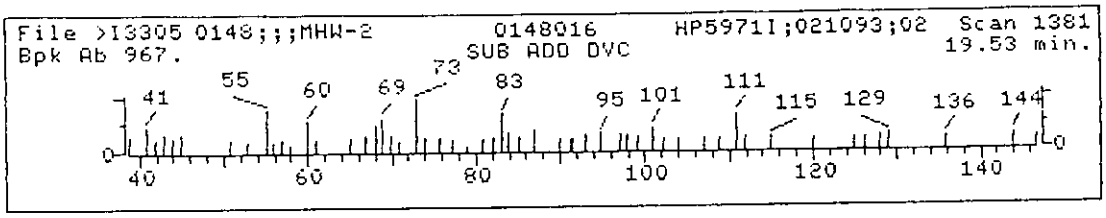
ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	21
Target peaks matched:	2
Total TIC identified:	24

TICS : 3:45 PM MON., 22 FEB., 1993

Sample file: >13305 Spectrum #: 1381

No data base entries were retrieved.

Peak#: 23 Area: 74041. Est Conc: 8. Date: 02/19/93 13:42 Inst: I

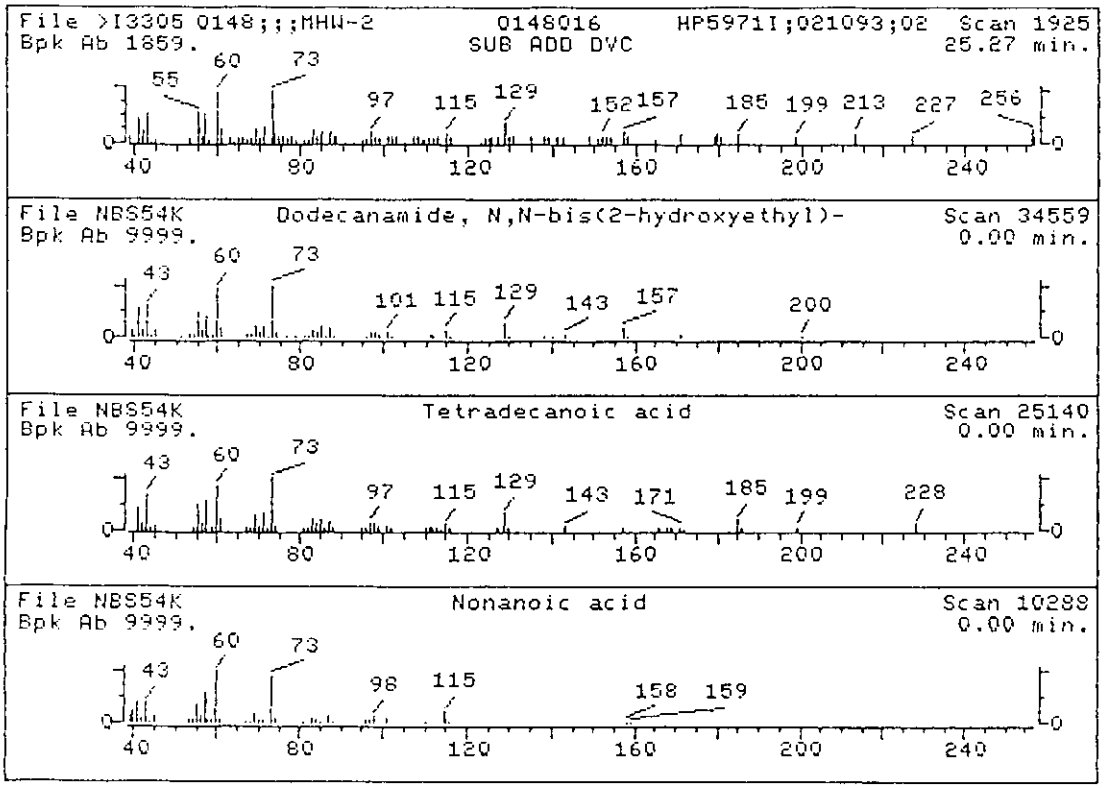


*.	Dodecanamide, N,N-bis(2-hydroxyethyl)-	287	C16H33NO3
.	Tetradecanoic acid	228	C14H28O2
3.	Nonanoic acid	158	C9H18O2
4.	Pentadecanoic acid	242	C15H30O2
5.	Dodecanoic acid	200	C12H24O2

Sample file: >I3305 Spectrum #: 1925
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	63	120401	2265	NBS54K	119	34	1	0	95	47	20	73
2.	30	544638	2250	NBS54K	85	57	2	0	82	47	10	23
3.	28*	112050	2182	NBS54K	59	45	2	0	85	55	8	36
4.	27	1002842	2252	NBS54K	73	79	3	0	106	39	10	13
5.	25	143077	2233	NBS54K	81	57	3	0	97	47	7	14

Peak#: 44 Area: 61015. Est Conc: 6. Date: 02/19/93 13:42 Inst: I

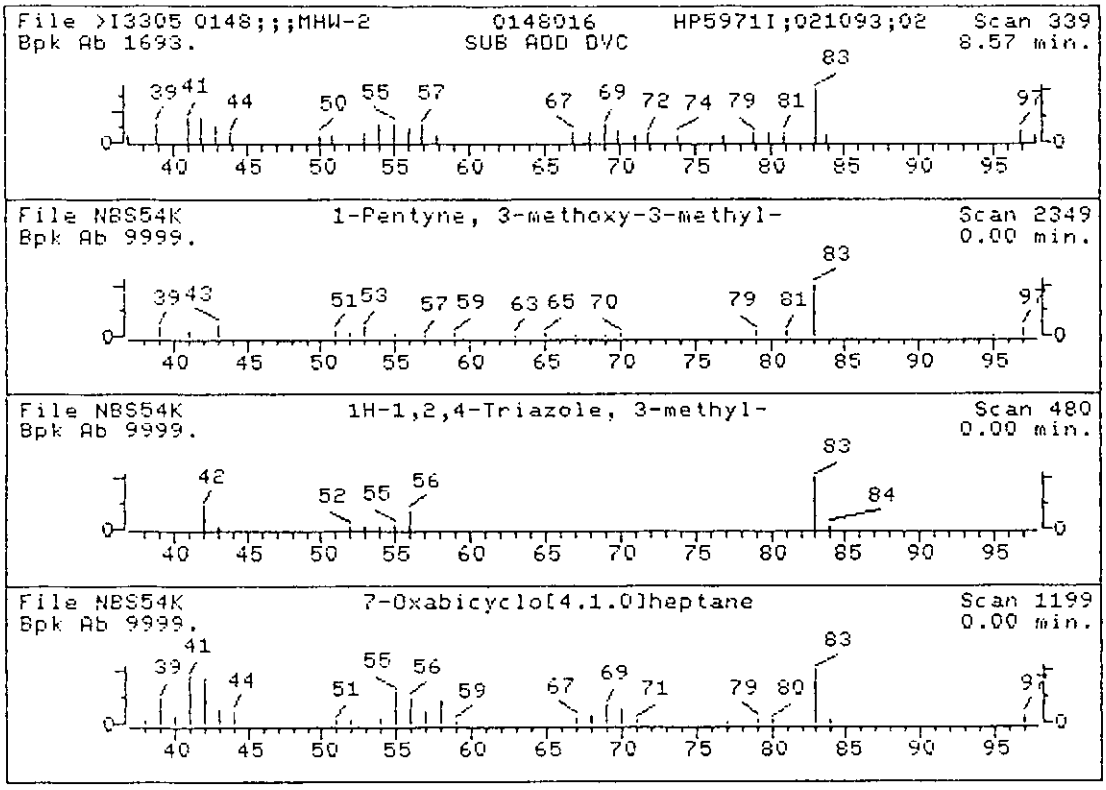


.	1-Pentyne, 3-methoxy-3-methyl-	112 C7H12O
2.	1H-1,2,4-Triazole, 3-methyl-	83 C3H5N3
3.	7-Oxabicyclo[4.1.0]heptane	98 C6H10O

Sample file: >I3305 Spectrum #: 339
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25	22802353	6484	NBS54K	39	43	2	0	100	48	7	13
2.	15*	7170016	6459	NBS54K	24	31	1	0	67	57	3	14
3.	12*	286204	6469	NBS54K	42	58	1	0	47	62	2	22

Peak#: 2 Area: 26920. Est Conc: 6. Date: 02/19/93 13:42 Inst: I

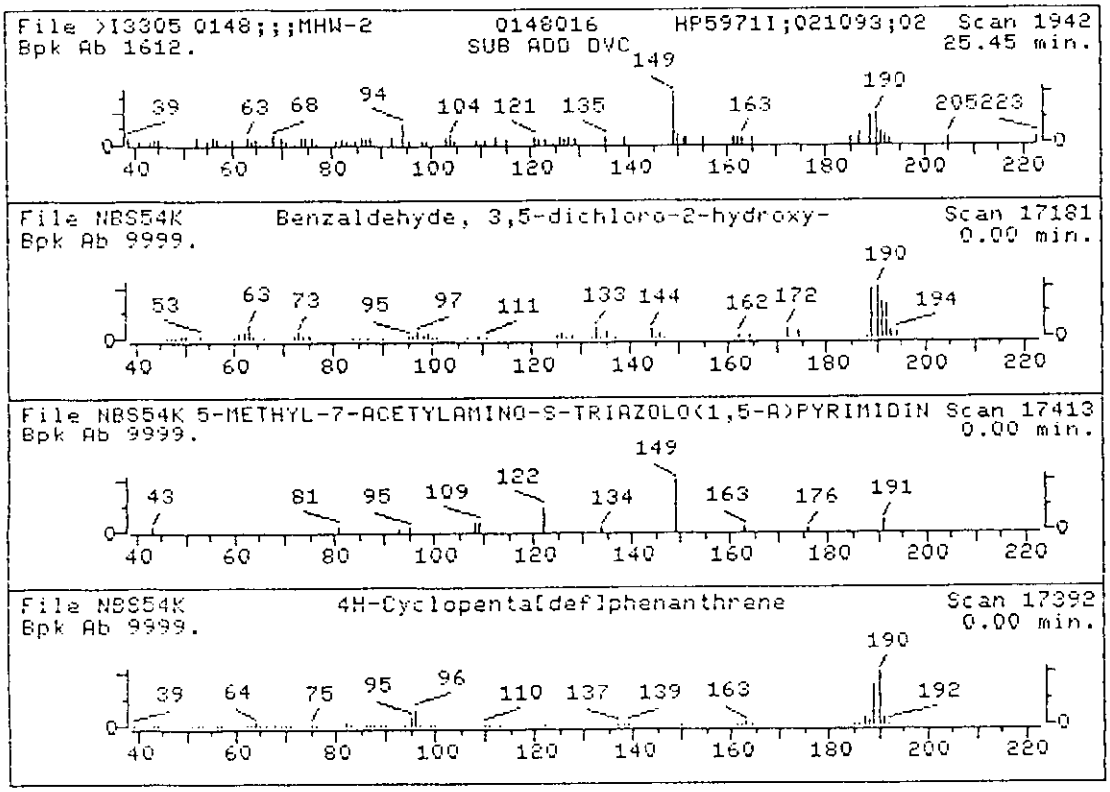


.. Benzaldehyde, 3,5-dichloro-2-hydroxy-	190	C7H4Cl2O2
2. 5-METHYL-7-ACETYLAMINO-S-TRIAZOLO(1,5-A)PYRIMIDINE	191	C8H9N5O
3. 4H-Cyclopenta[def]phenanthrene	190	C15H10

Sample file: >I3305 Spectrum #: 1942
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	90608	27590	NBS54K	40	109	3	0	57	59	3	13
2.	11*	17413	20335	NBS54K	22	57	3	0	100	62	2	12
3.	11*	203645	27690	NBS54K	26	89	3	0	57	62	2	13

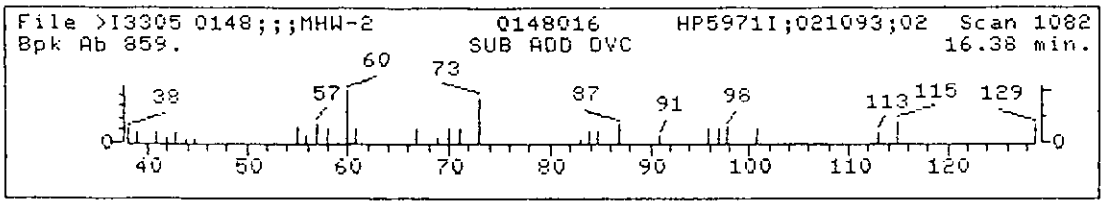
Peak#: 45 Area: 47525. Est Conc: 5. Date: 02/19/93 13:42 Inst: I



Sample file: >I3309 Spectrum #: 1082

No data base entries were retrieved.

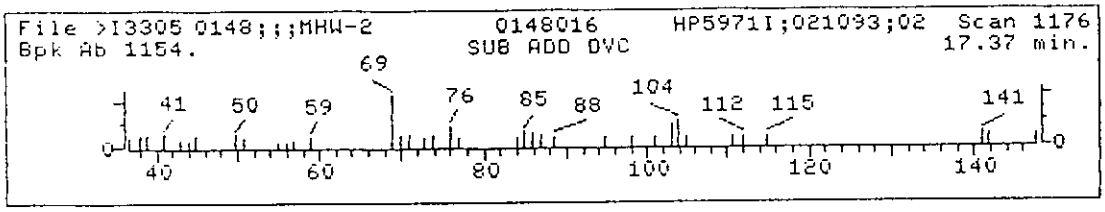
Peak#: 16 Area: 27018. Est Conc: 4. Date: 02/19/93 13:42 Inst: I



Sample file: >I3305 Spectrum #: 1176

No data base entries were retrieved.

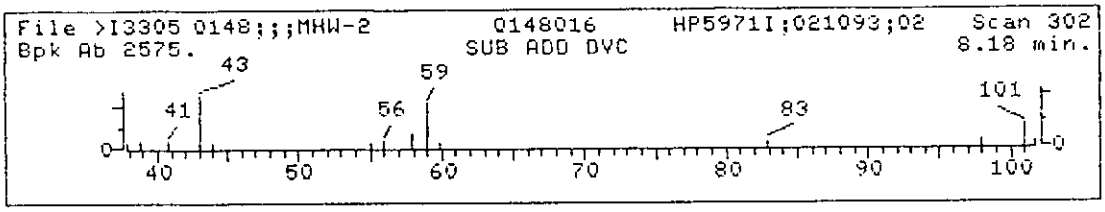
Peak#: 18 Area: 32594. Est Conc: 4. Date: 02/19/93 13:42 Inst: I



Sample file: >I3305 Spectrum #: 302

No data base entries were retrieved.

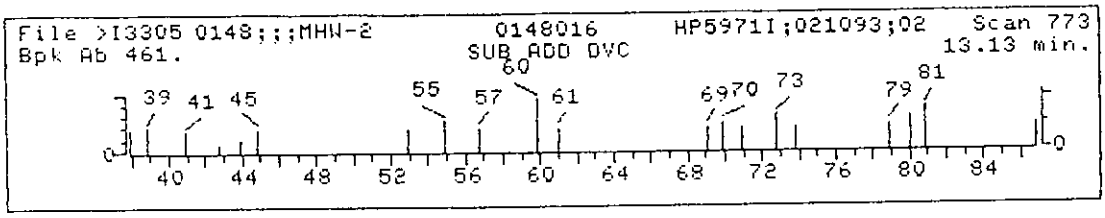
Peak#: 1 Area: 21340. Est Conc: 4. Date: 02/19/93 13:42 Inst: I



Sample File: >I3305 Spectrum #: 773

No data base entries were retrieved.

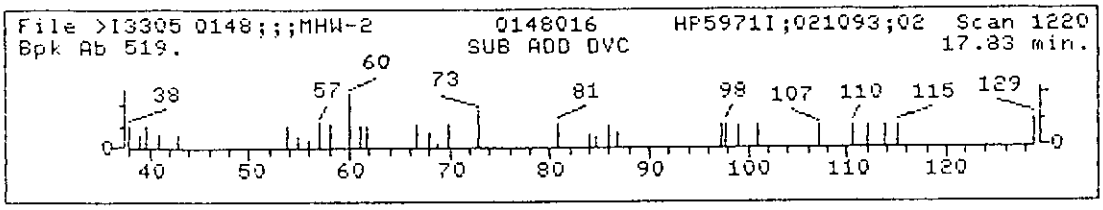
Peak#: 9 Area: 13781. Est Conc: 3. Date: 02/19/93 13:42 Inst: I



Sample file: >I3305 Spectrum #: 1220

No data base entries were retrieved.

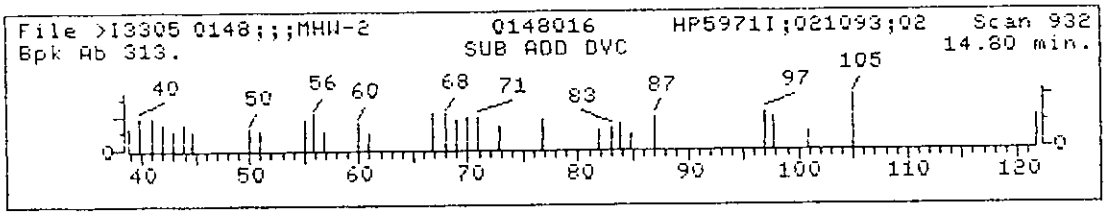
Peak#: 20 Area: 22288. Est Conc: 3. Date: 02/19/93 13:42 Inst: I



Sample file: >I3309 Spectrum #: 932

No data base entries were retrieved.

Peak#: 11 Area: 21643. Est Conc: 3. Date: 02/19/93 13:42 Inst: I

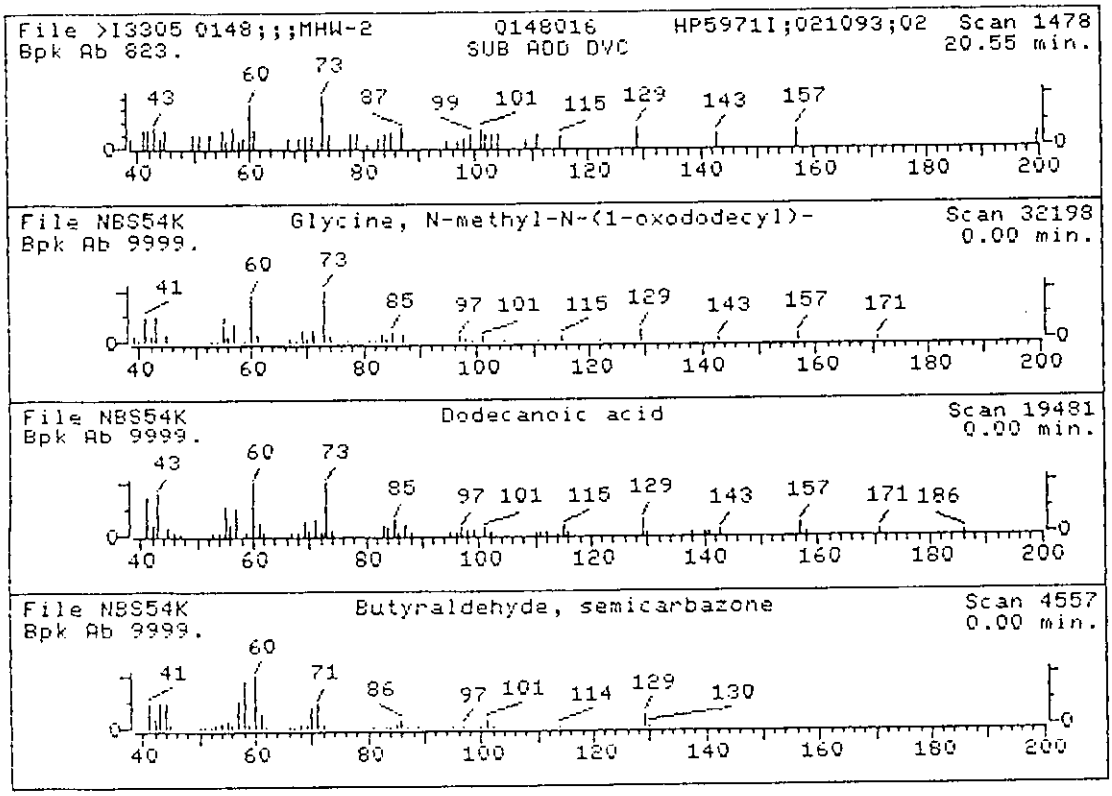


. Glycine, N-methyl-N-(1-oxododecyl)-	271	C15H29NO3
2. Dodecanoic acid	200	C12H24O2
3. Butyraldehyde, semicarbazone	129	C5H11N3O
4. Butanoic acid, 3-methyl-	102	C5H10O2

Sample file: >I3305 Spectrum #: 1478
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30	97789	2259	NBS54K	50	100	0	0	72	50	10	21
2.	25*	143077	2233	NBS54K	33	105	3	0	83	42	8	13
3.	20*	13183216	2141	NBS54K	24	91	3	0	74	52	5	12
4.	11	503742	2113	NBS54K	29	68	0	0	83	63	2	15

Peak#: 28 Area: 24363. Est Conc: 3. Date: 02/19/93 13:42 Inst: I

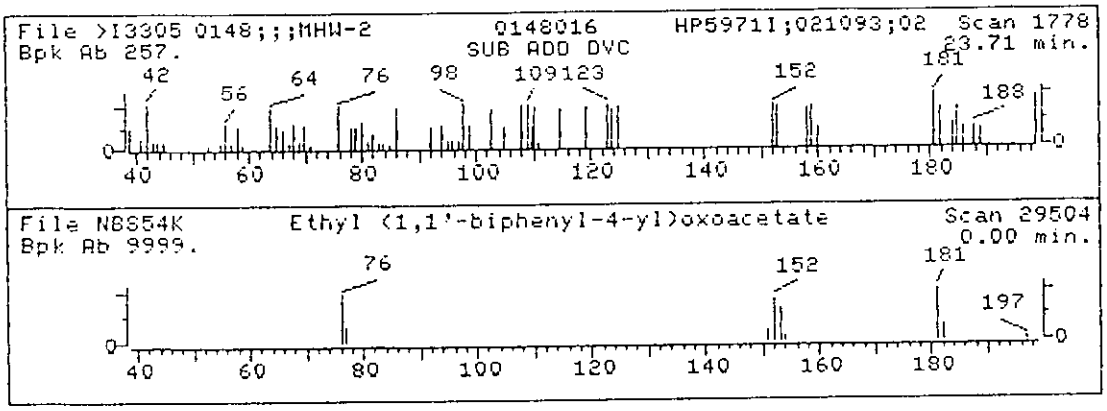


. Ethyl (1,1'-biphenyl-4-yl)oxoacetate 254 C16H1403

Sample file: >I3305 Spectrum #: 1778
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20	6244537	5491	NBS54K	42	48	2	0	84	92	5	12

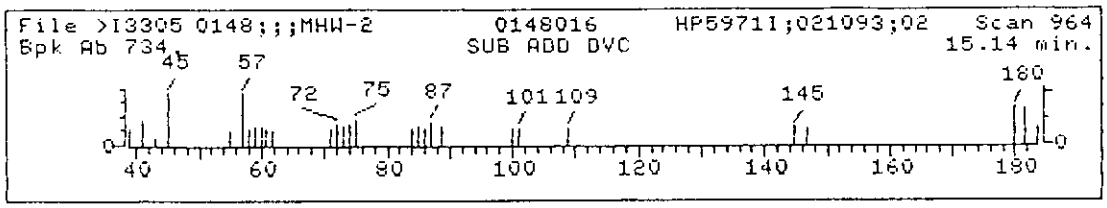
Peak#: 38 Area: 28069. Est Conc: 3. Date: 02/19/93 13:42 Inst: I



Sample file: >I3305 Spectrum #: 964

No data base entries were retrieved.

Peak#: 12 Area: 22096. Est Conc: 3. Date: 02/19/93 13:42 Inst: I

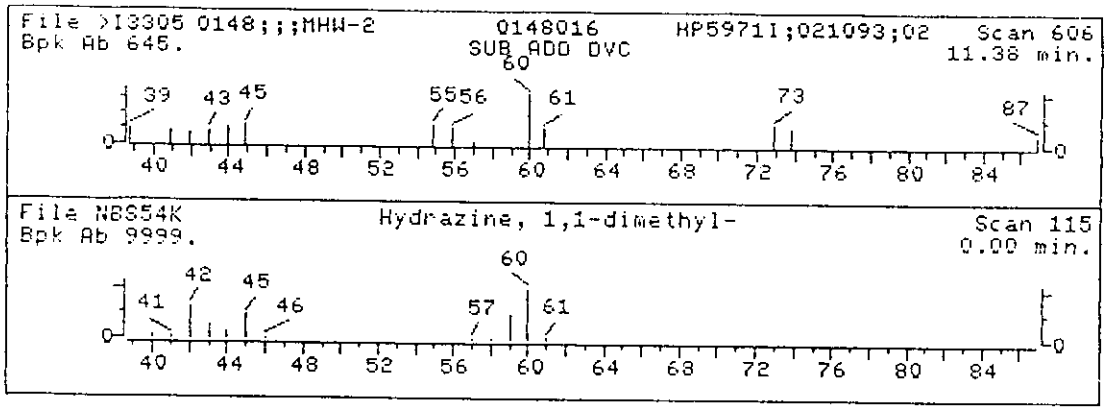


. Hydrazine, 1,1-dimethyl- 60 C2H8N2

Sample file: >I3309 Spectrum #: 606
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	57147	2093	NBS54K	25	69	3	0	100	47	7	13

Peak#: 4 Area: 13425. Est Conc: 3. Date: 02/19/93 13:42 Inst: I

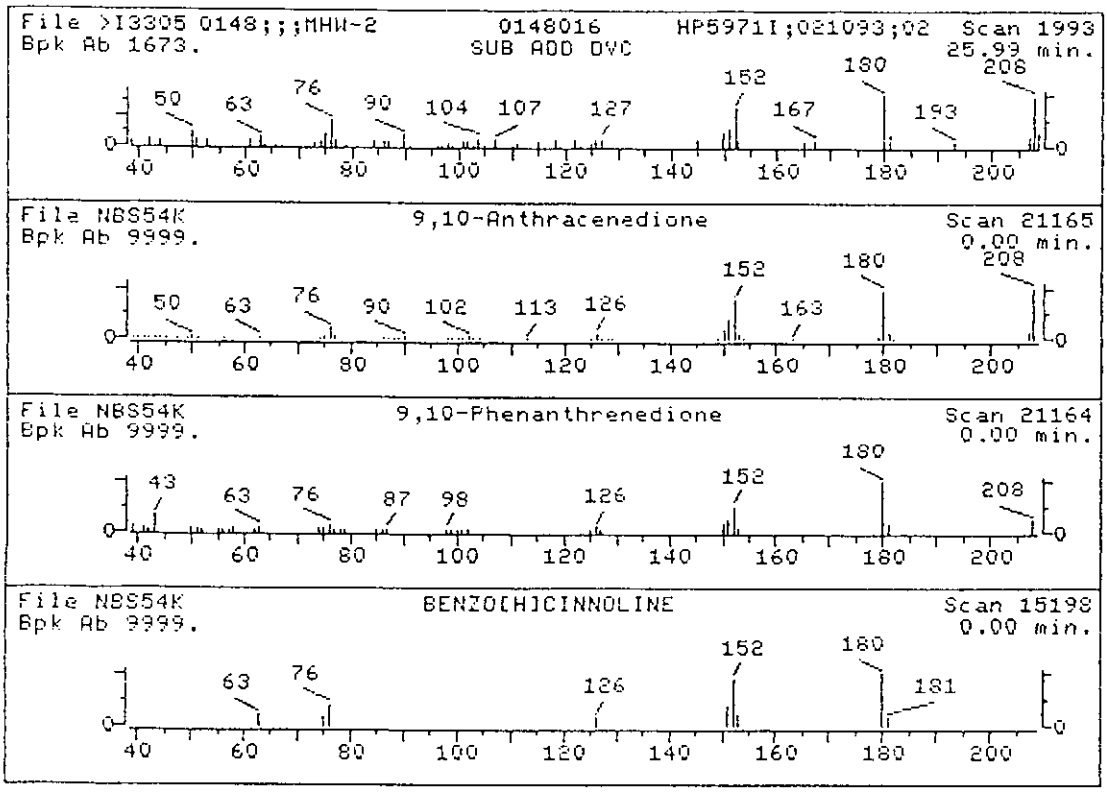


*.	9,10-Anthracenedione	208	C14H8O2
.	9,10-Phenanthrenedione	208	C14H8O2
3.	BENZO[H]CINNOLINE	180	C12H8N2
4.	1,4-Anthracenedione	208	C14H8O2
5.	2(1H)-Pyridone, 4-hydroxy-6-methyl-3-valeryl-	209	C11H15NO3

Sample file: >I3305 Spectrum #: 1993
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	66*	84651	31133	NBS54K	69	66	2	0	88	17	31	49
2.	48*	84117	26022	NBS54K	55	68	2	0	100	34	20	32
3.	47*	15198	25969	NBS54K	53	27	1	0	71	44	16	46
4.	27*	635121	31134	NBS54K	27	112	3	0	84	38	10	13
5.	25*	7135844	26023	NBS54K	42	86	3	0	74	50	7	13

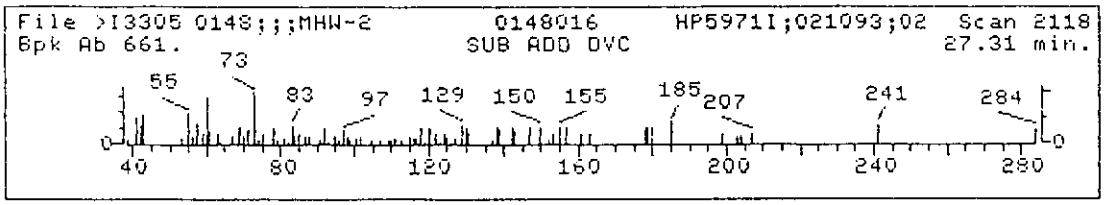
Peak#: 46 Area: 29782. Est Conc: 3. Date: 02/19/93 13:42 Inst: 1



Sample file: >I3305 Spectrum #: 2118

No data base entries were retrieved.

Peak#: 51 Area: 26769. Est Conc: 3. Date: 02/19/93 13:42 Inst: I

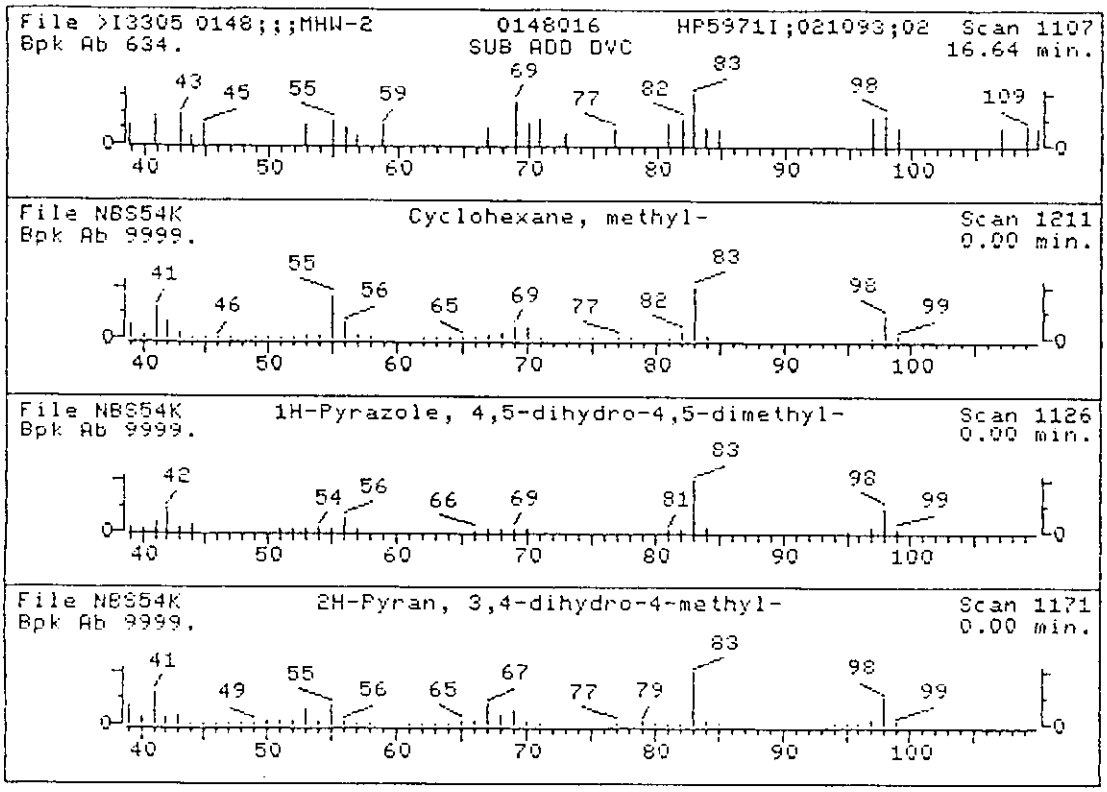


..	Cyclohexane, methyl-	98 C7H14
2.	1H-Pyrazole, 4,5-dihydro-4,5-dimethyl-	98 C5H10N2
3.	2H-Pyran, 3,4-dihydro-4-methyl-	98 C6H10O
4.	Silacyclopent-3-ene, 3-methyl-	98 C5H10Si

Sample file: >I3305 Spectrum #: 1107
Search speed: 1 Tilting option: N No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	108872	9929	NBS54K	25	78	3	0	100	52	5	13
2.	15*	28019945	9892	NBS54K	32	61	3	0	100	60	3	13
3.	15*	2270613	9912	NBS54K	25	76	3	0	100	58	3	13
4.	15*	54077655	9893	NBS54K	28	90	3	0	54	56	3	13

Peak#: 17 Area: 24567. Est Conc: 3. Date: 02/19/93 13:42 Inst: I

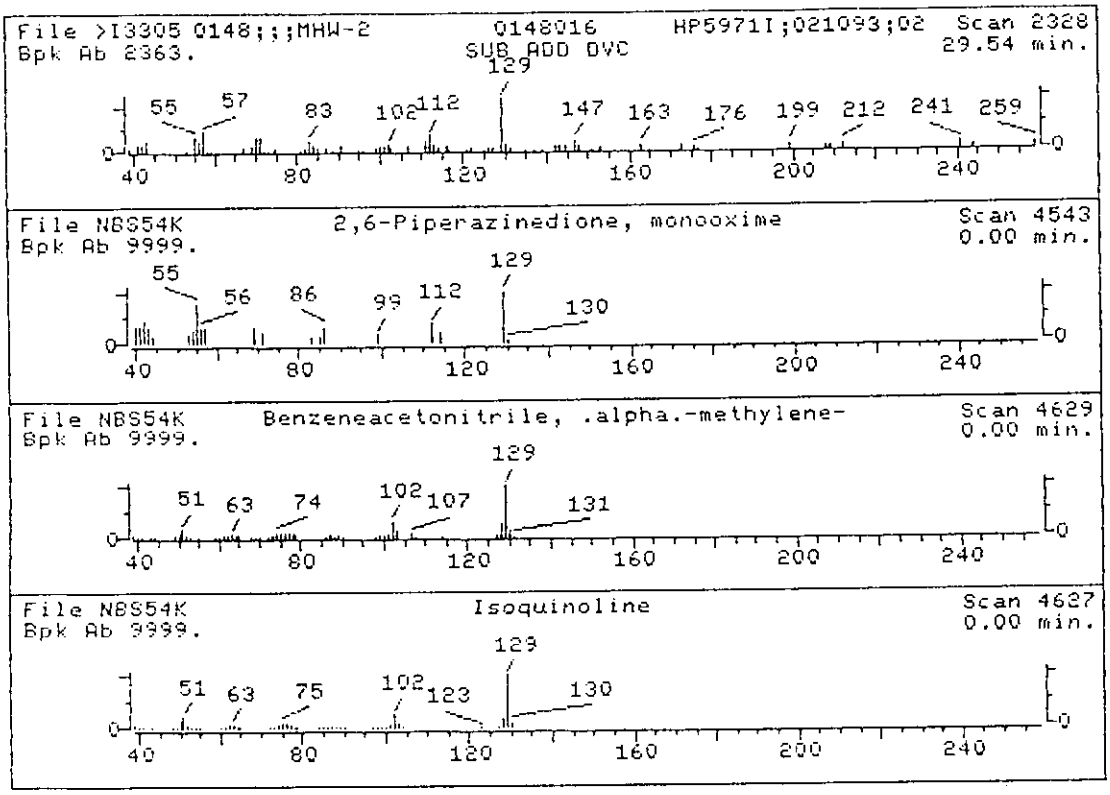


2.	2,6-Piperazinedione, monooxime	129 C4H7N3O2
3.	Benzeneacetonitrile, .alpha.-methylene-	129 C9H7N
4.	Isoquinoline	129 C9H7N
5.	2-Propenenitrile, 3-phenyl-, (E)-	129 C9H7N
6.	Quinoline	129 C9H7N

Sample file: >I3305 Spectrum #: 2328
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	56700846	16227	NBS54K	29	93	3	0	100	31	12	13
2.	24*	495103	16237	NBS54K	22	74	3	0	100	44	8	12
3.	24*	119653	16235	NBS54K	22	77	3	0	100	44	8	12
4.	24*	1885387	16236	NBS54K	22	82	3	0	100	44	8	12
5.	24*	91225	16234	NBS54K	22	90	3	0	100	44	8	12

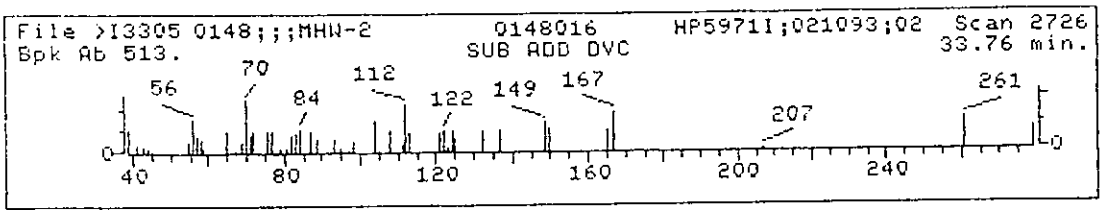
Peak#: 56 Area: 25745. Est Conc: 3. Date: 02/19/93 13:42 Inst: I



Sample file: >I3305 Spectrum #: 2726

No data base entries were retrieved.

Peak#: 59 Area: 32451. Est Conc: 3. Date: 02/19/93 13:42 Inst: I

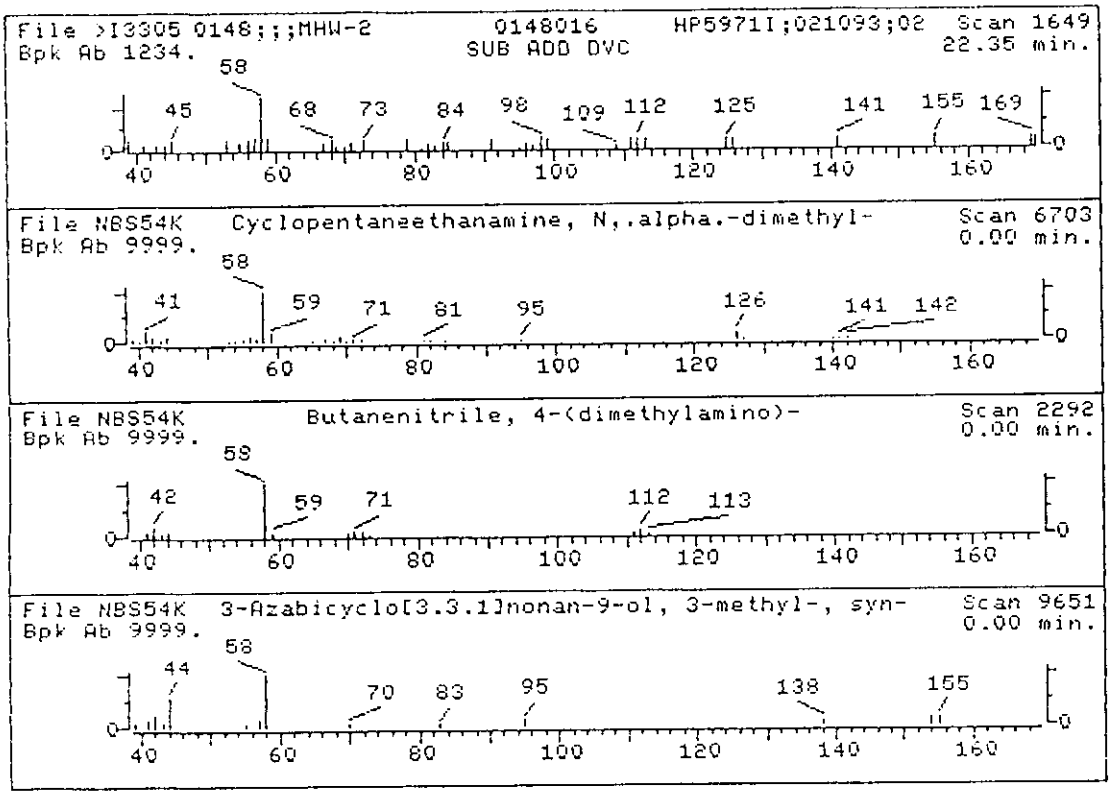


..	Cyclopentaneethanamine, N,.alpha.-dimethyl-	141 C9H19N
2.	Butanenitrile, 4-(dimethylamino)-	112 C6H12N2
3.	3-Azabicyclo[3.3.1]nonan-9-ol, 3-methyl-, syn-	155 C9H17NO

Sample file: >I3305 Spectrum #: 1649
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	102454	1550	NBS54K	30	68	2	0	92	45	8	14
2.	25*	13989827	1459	NBS54K	24	38	2	0	100	48	7	14
3.	25*	13493408	1590	NBS54K	31	59	3	0	100	47	7	13

Peak#: 32 Area: 22260. Est Conc: 2. Date: 02/19/93 13:42 Inst: I

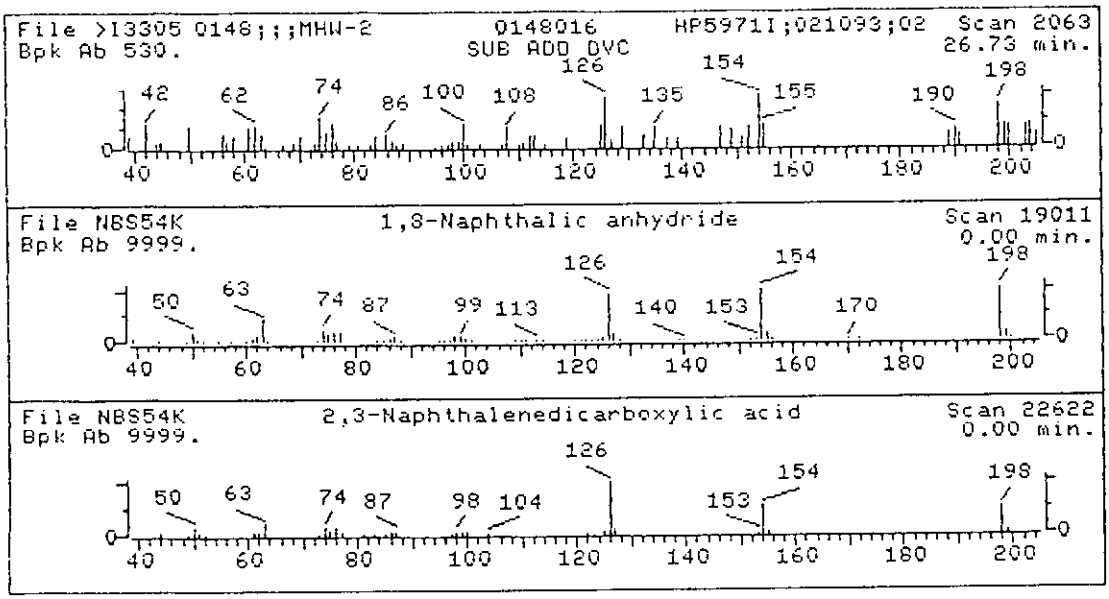


. 1,8-Naphthalic anhydride 198 C12H6O3
2. 2,3-Naphthalenedicarboxylic acid 216 C12H8O4

Sample file: >I3305 Spectrum #: 2063
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	81845	29247	NBS54K	57	86	1	0	81	42	16	46
2.	15	2169871	29302	NBS54K	28	97	0	0	97	60	3	14

Peak#: 48 Area: 23752. Est Conc: 2. Date: 02/19/93 13:42 Inst: I



1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

REPLICATE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: 0592 SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3306.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

REPLICATE

Lab Name: IEA/CT Contract: 0593

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3306.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.7	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0594

REPLICATE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3306.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0/17
amc 2/25/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		~~UNKNOWN~~ UNKNOWN	31.97	51	J
2.			29.07	45	
3.			26.39	39	
4.			36.35	29	
5.			23.34	22	
6.			43.53	17	
7.			32.34	11	
8.			29.28	9	
9.			19.80	7	
10.			8.58	6	JB
11.			37.00	6	J
12.			26.56	6	
13.		ALDOL CONDENSATION PRODUCT	8.17	4	JAB
14.		UNKNOWN	33.74	3	J
15.		UNKNOWN	22.12	3	
16.		UNKNOWN ACID	16.34	3	
17.		UNKNOWN	23.47	3	
18.		UNKNOWN ACID	~~10.32~~ 10.32	2	
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

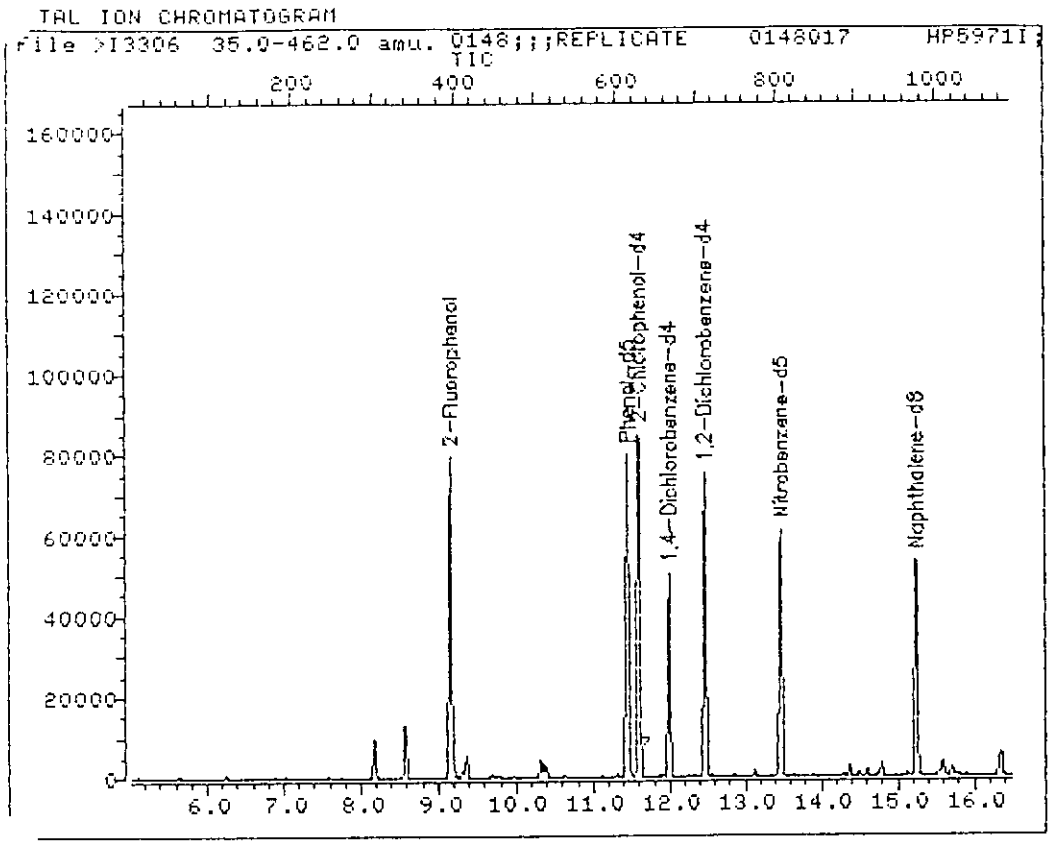
Operator ID: USER1 Quant Rev: 7 Quant Time: 930222 17:55
Output File: ^I3306::A6 Injected at: 930219 14:43
Data File: >I3306::A5 Dilution Factor: .51000
Name: 0148;;;REPLICATE Instrument ID: **MSD
Misc: 0148017 HP5971I;021093;021193;LLW;1;;;I02

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.00	151.8	17548	40.00	ug	95
2)	2-Chlorophenol-d4	11.60	132.0	62543	56.90	ug	80
3)	2-Fluorophenol	9.16	111.8	60594	53.93	ug	73
4)	Phenol-d5	11.45	98.8	88848	57.88	ug	60
7)	2-Chlorophenol	11.64	127.8	571	.496	ug	42
10)	1,2-Dichlorobenzene-d4	12.47	152.0	29478	41.02	ug	94
17)	*Naphthalene-d8	15.24	135.9	65172	40.00	ug	98
18)	Nitrobenzene-d5	13.48	81.8	50619	39.57	ug	71
31)	*Acenaphthene-d10	19.90	163.9	36697	40.00	ug	99
)	2-Fluorobiphenyl	18.13	171.8	87488	39.50	ug	98
47)	Diethylphthalate	21.16	148.8	1210	.470	ug	46
51)	2,4,6-Tribromophenol	22.03	329.6	31611	60.21	ug	93
52)	*Phenanthrene-d10	23.79	187.9	67110	40.00	ug	97
61)	Di-n-butylphthalate	25.44	148.8	2755	.662	ug	63
63)	*Chrysene-d12	31.07	240.0	56813	40.00	ug	98
65)	Terphenyl-d14	28.04	244.0	85010	34.62	ug	97
66)	Butylbenzylphthalate	29.38	148.8	1445	.716	ug	59
70)	bis(2-Ethylhexyl)phthalate	31.18	148.8	2759	1.10	ug	96
71)	*Perylene-d12	37.73	264.0	57650	40.00	ug	99
72)	Di-n-octylphthalate	33.75	148.9	2401	.482	ug	91

* Compound is ISTD

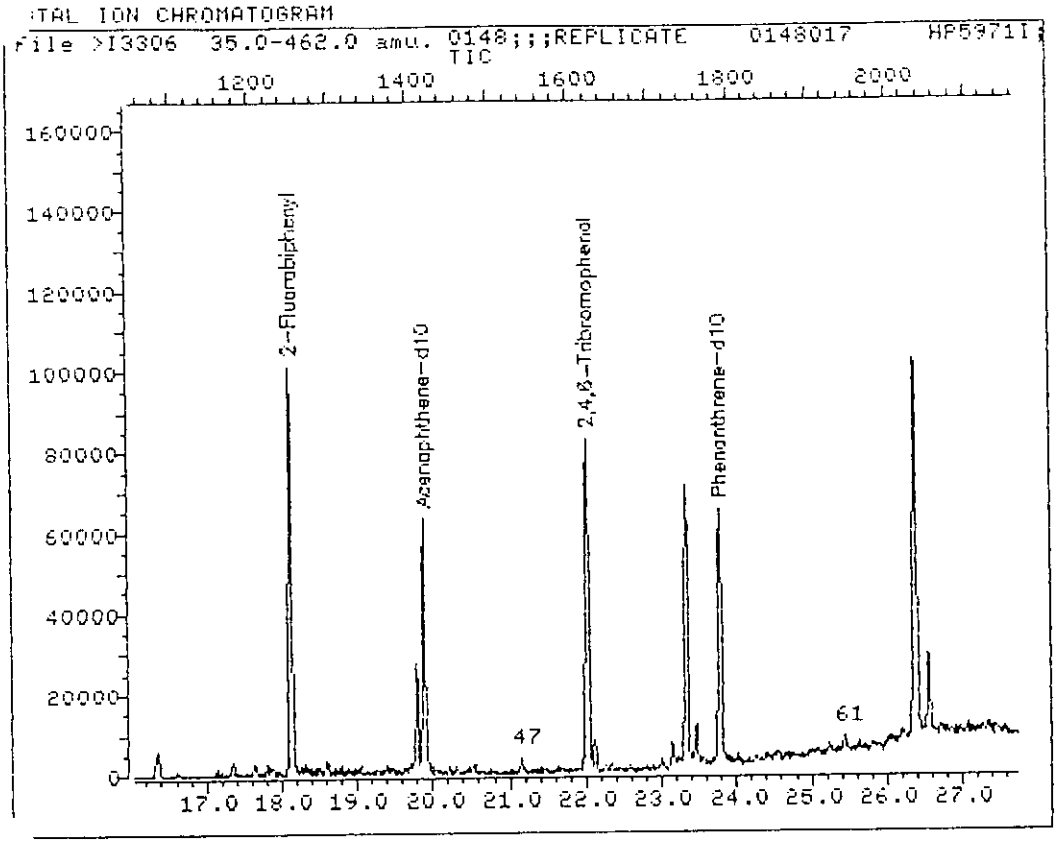
Conc 92.2



Data File: >I3306::A5 Quant Output File: ^I3306::A6
Name: 0148;;;REPLICATE Instrument ID: **MSD
Misc: 0148017 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

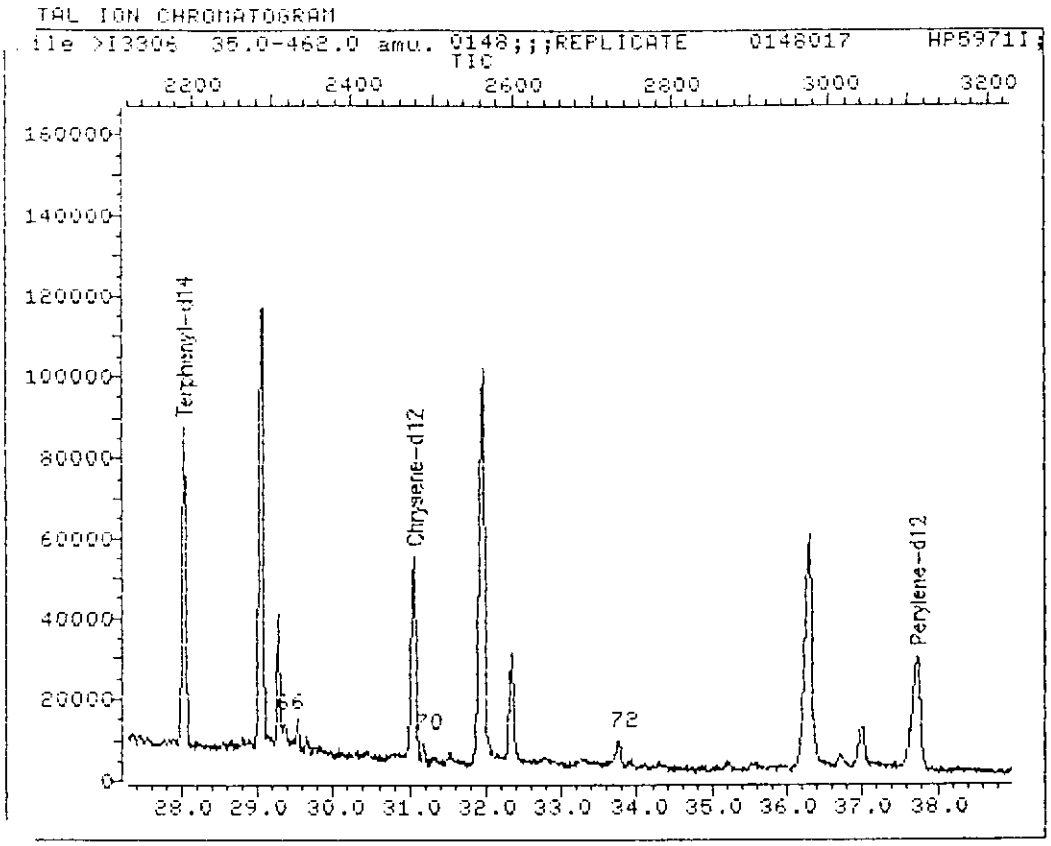
Operator ID: USER1
Quant Time : 930222 17:55
Injected at: 930219 14:43



Data File: >I3306::A5 Quant Output File: ^I3306::A6
Name: 0148;;;REPLICATE Instrument ID: **MSD
Misc: 0148017 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

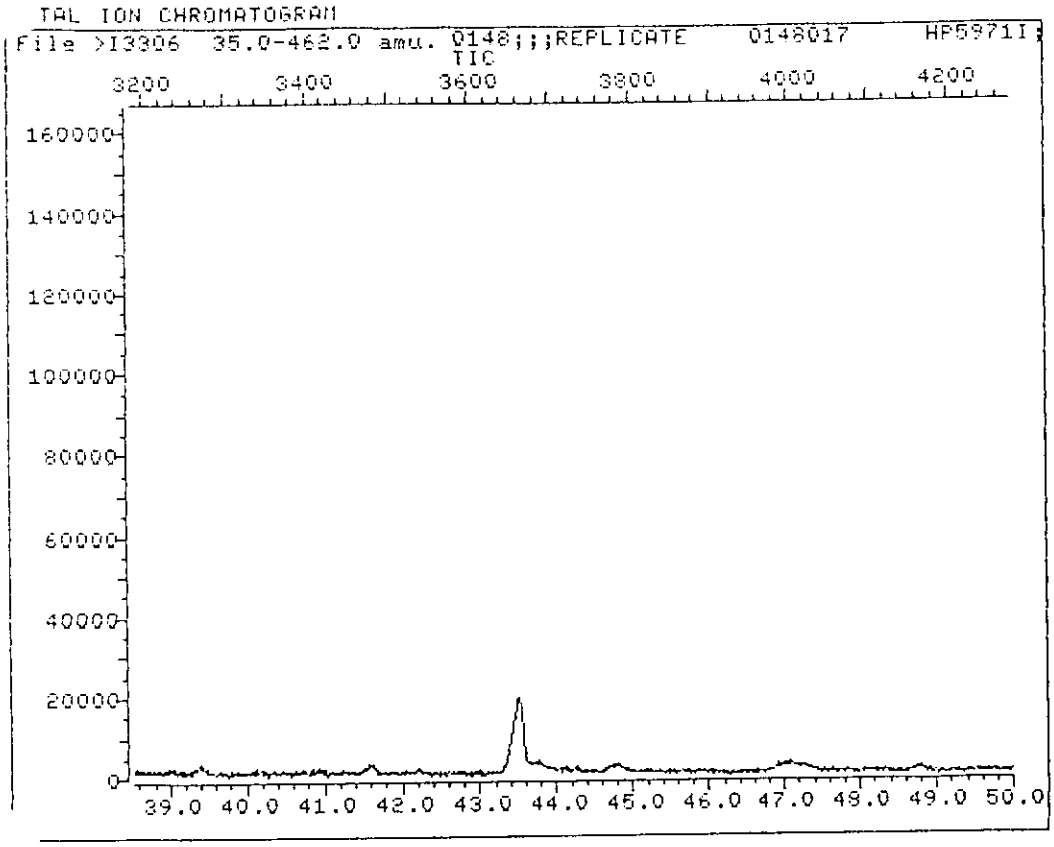
Operator ID: USER1
Quant Time : 930222 17:55
Injected at: 930219 14:43



Data File: >I3306::A5 Quant Output File: ^I3306::A6
Name: 0148;;;REPLICATE Instrument ID: **MSD
Misc: 0148017 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:55
Injected at: 930219 14:43

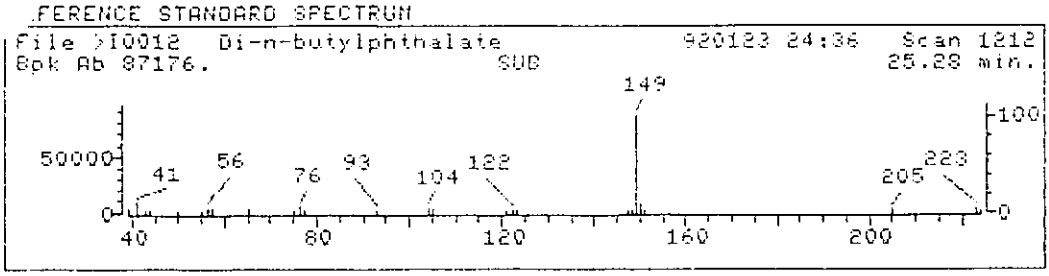


Data File: >I3306::A5 Quant Output File: ^I3306::A6
Name: 0148;;;REPLICATE Instrument ID: **MSD
Misc: 0148017 HP5971I;021093;021193;LLW;1;;;I02

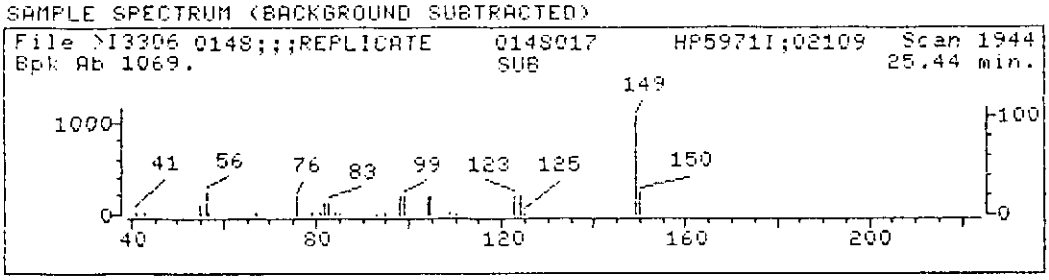
Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 17:55
Injected at: 930219 14:43

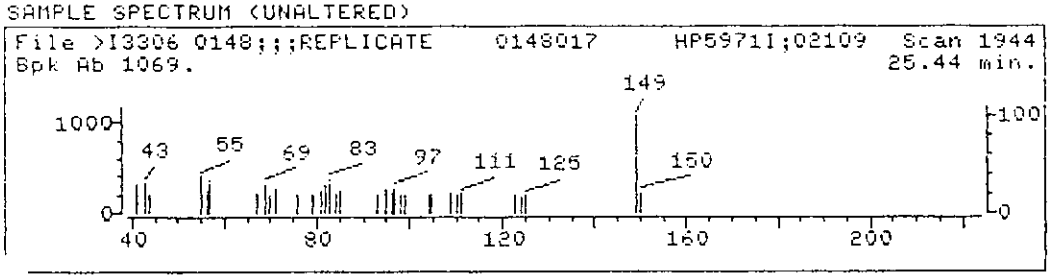
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

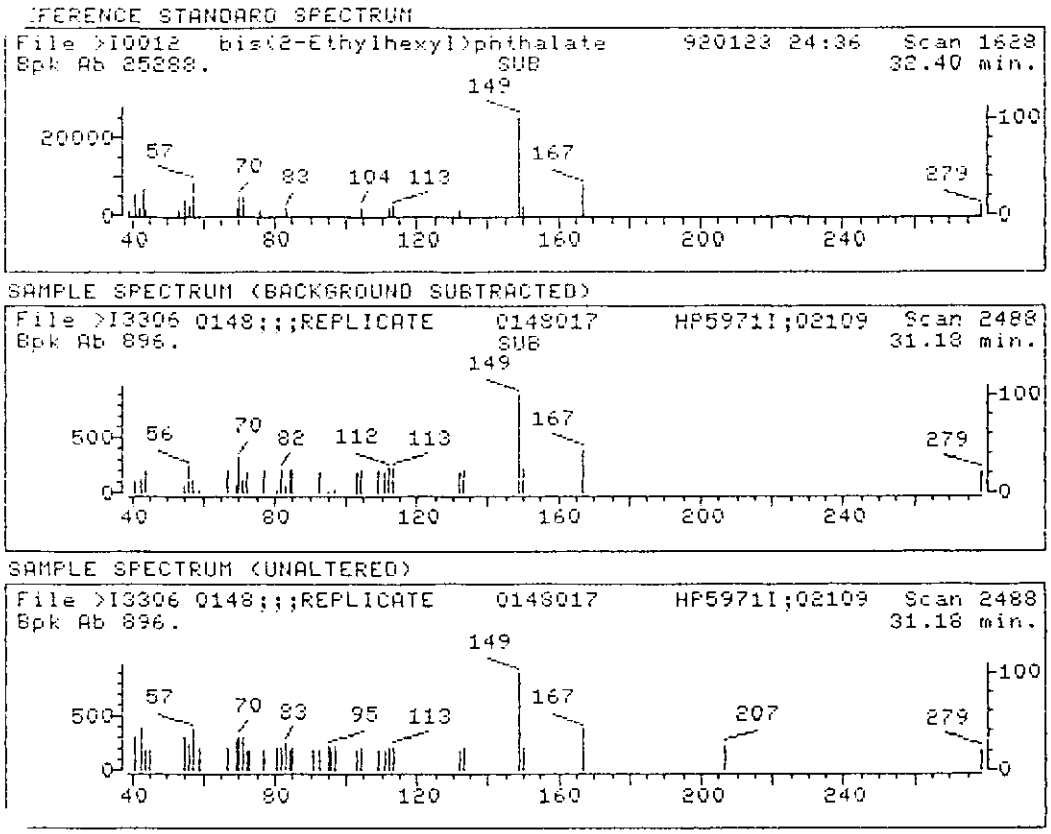


SAMPLE SPECTRUM (UNALTERED)



Data File: >I3306::A2 Quant Output File: ^I3306::A6
Name: 0148;;;REPLICATE Instrument ID: **MSD
Misc: 0148017 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 15:41 Quant ID File: I_IFI::A5
Injected at: 930219 14:43 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 61
Compound Name : Di-n-butylphthalate
Scan Number : 1944
Retention Time: 25.44 min.
Quant Ion : 148.8
Area : 2755
Concentration : .662 ug
q-value : 63



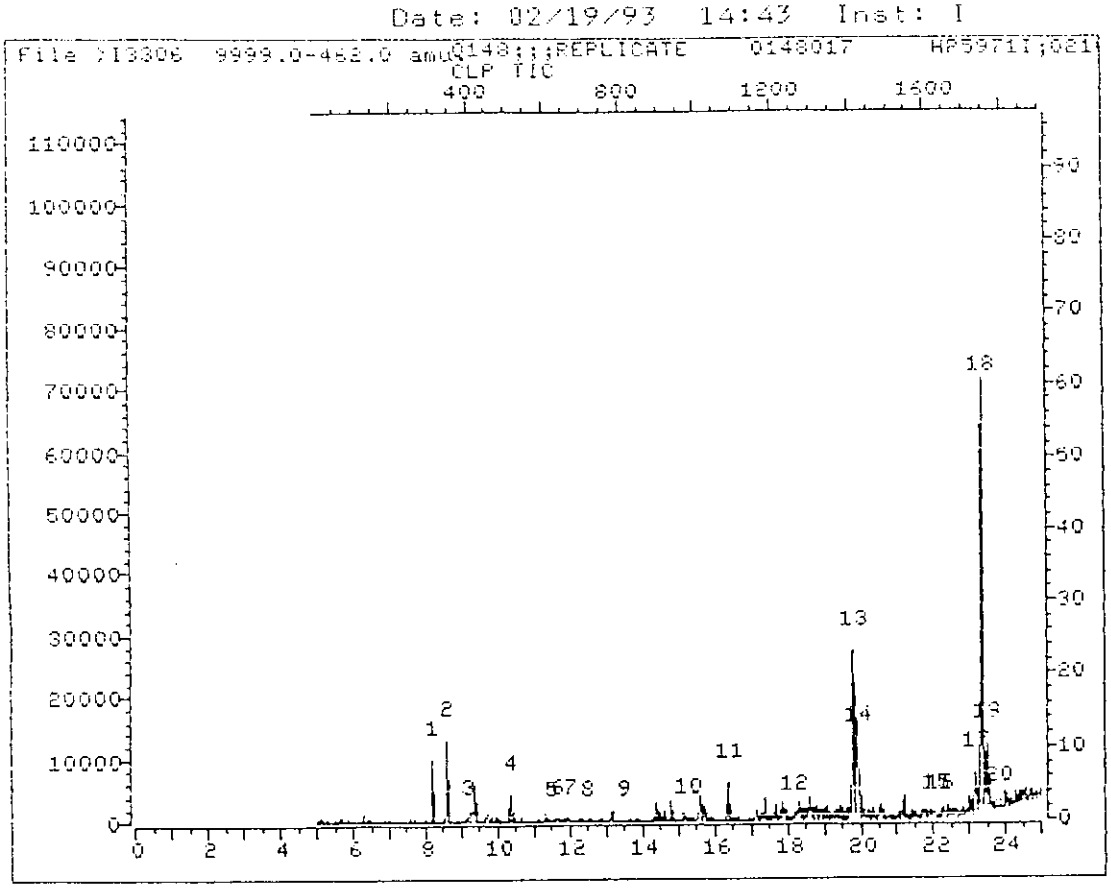
Data File: >I3306::A2 Quant Output File: ^I3306::A6
Name: 0148;;;REPLICATE Instrument ID: **MSD
Misc: 0148017 HP5971I;021093;021193;LLW;1;;;102
Quant Time: 930219 15:41 Quant ID File: I_IFI::A5
Injected at: 930219 14:43 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

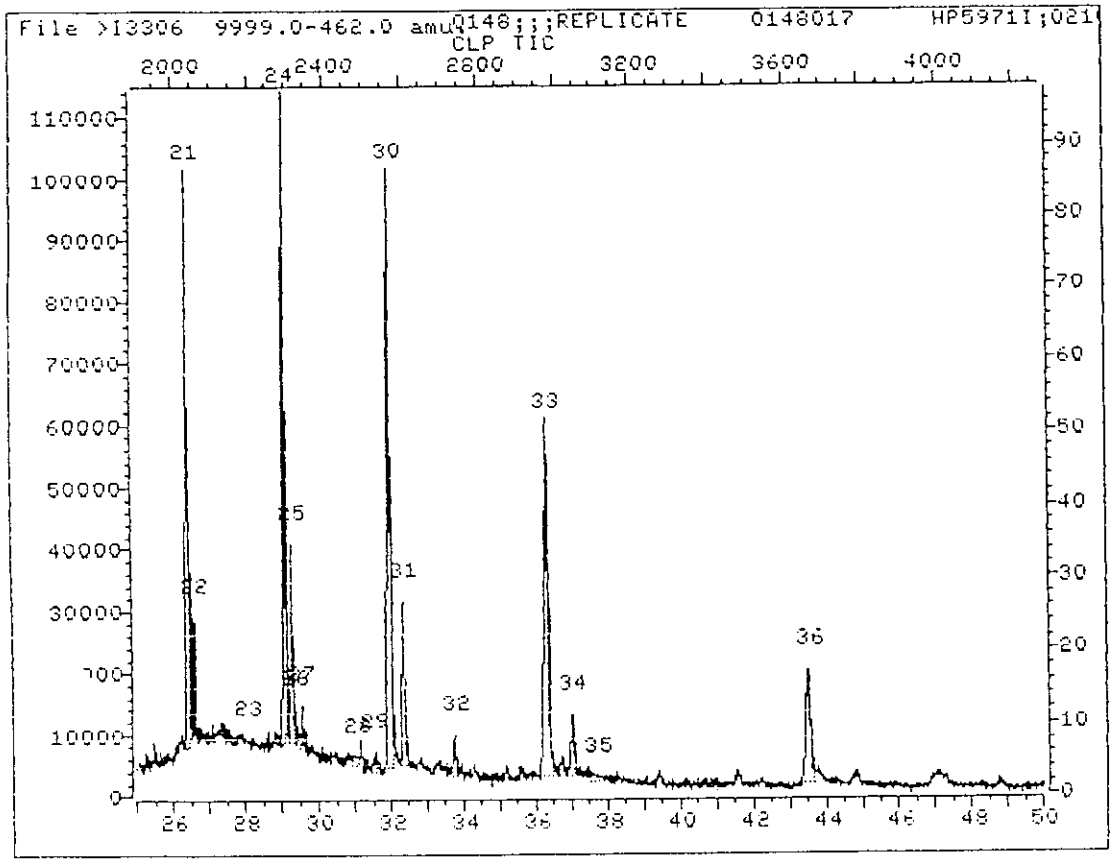
Compound No : 70
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 2488
Retention Time: 31.18 min.
Quant Ion : 148.8
Area : 2759
Concentration : 1.10 ug
q-value : 96

M data file header from : >I3306::A2

Sample: 0148;;;REPLICATE Operator: USER1 2/19/93 14:43
Misc : 0148017 HP59711;021093;021193;LLW;1;;;I02
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 4 Equip ID: **MSD
Method file: CSCUT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0


Date: 02/19/93 14:43 Inst: I
File >I3306 9999.0-462.0 amu Q148;;;REPLICATE 0148017 HP5971I;021
CLP TIC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CLP TIC

REPLICATE
HA597II

0604

Date: 02/19/93 14:43 Inst: I

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
30.	31.97	495028.	54.	5.	.51
24.	29.07	415731.	45.	5.	.51
21.	26.39	327389.	39.	4.	.51
33.	36.30	402787.	39.	6.	.51
18.	23.34	183103.	22.	4.	.51
36.	43.53	176159.	17.	6.	.51
31.	32.34	101936.	11.	5.	.51
25.	29.28	83980.	9.	5.	.51
13.	19.80	60345.	7.	3.	.51
2.	8.58	28572.	6.	1.	.51
34.	37.00	57469.	6.	6.	.51
22.	26.56	47134.	6.	4.	.51
1.	8.17	20263.	4.	1.	.51
32.	33.74	26793.	3.	5.	.51
16.	22.12	21122.	3.	4.	.51
11.	16.34	19875.	3.	2.	.51
19.	23.47	25156.	3.	4.	.51
4.	10.32	10488.	2.	1.	.51

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.00	99485.	0.00	13.62	5.7
NAPHTHALENE-D8	15.24	128283.	13.62	17.57	2.0
ACENAPHTHENE-D10	19.90	167491.	17.57	21.84	4.6
PHENANTHRENE-D10	23.79	169329.	21.84	27.43	2.5
CHRYSENE-D12	31.07	188551.	27.43	34.40	3.3
PERYLENE-D12	37.73	213063.	34.40	43.53	3.7

ISTD peaks found: 6
Surrogate peaks found: 8
Quant target peaks expected: 5
Target peaks matched: 0
Total TIC identified: 18

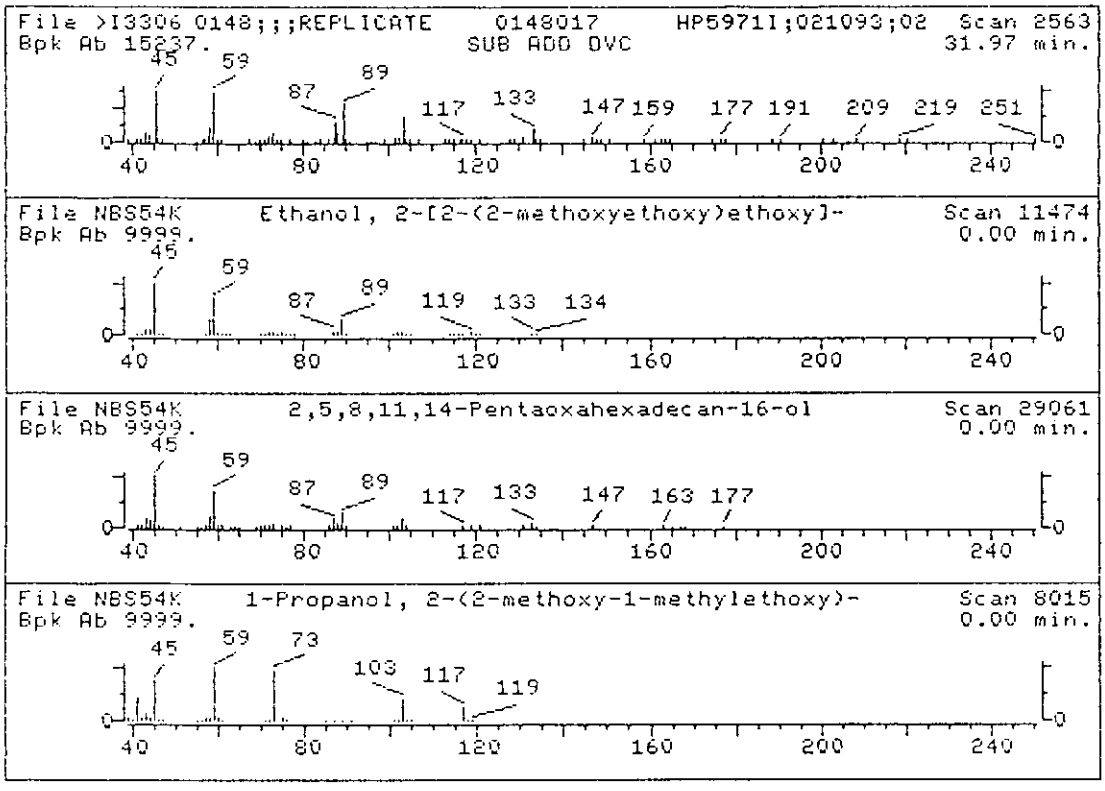
TICS : 4:16 PM MON., 22 FEB., 1993

.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
.	2,5,8,11,14-Pentaoxahexadecan-16-ol	292	C11H24O6
3.	1-Propanol, 2-(2-methoxy-1-methylethoxy)-	148	C7H16O3
4.	15-Crown-5	220	C10H20O5
5.	2-Propanol, 1-ethoxy-	104	C5H12O2

Sample file: >I3306 Spectrum #: 2563
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	41	112356	8547	NBS54K	49	50	0	0	93	38	14	28
2.	29	23778521	8670	NBS54K	43	86	0	0	100	36	10	15
3.	24	55956213	1970	NBS54K	55	48	2	0	96	44	8	12
4.	20	33100275	8641	NBS54K	60	71	2	0	79	55	5	12
5.	20*	1569024	1853	NBS54K	34	60	1	0	88	53	5	18

Peak#: 30 Area: 495028. Est Conc: 54. Date: 02/19/93 14:43 Inst: I

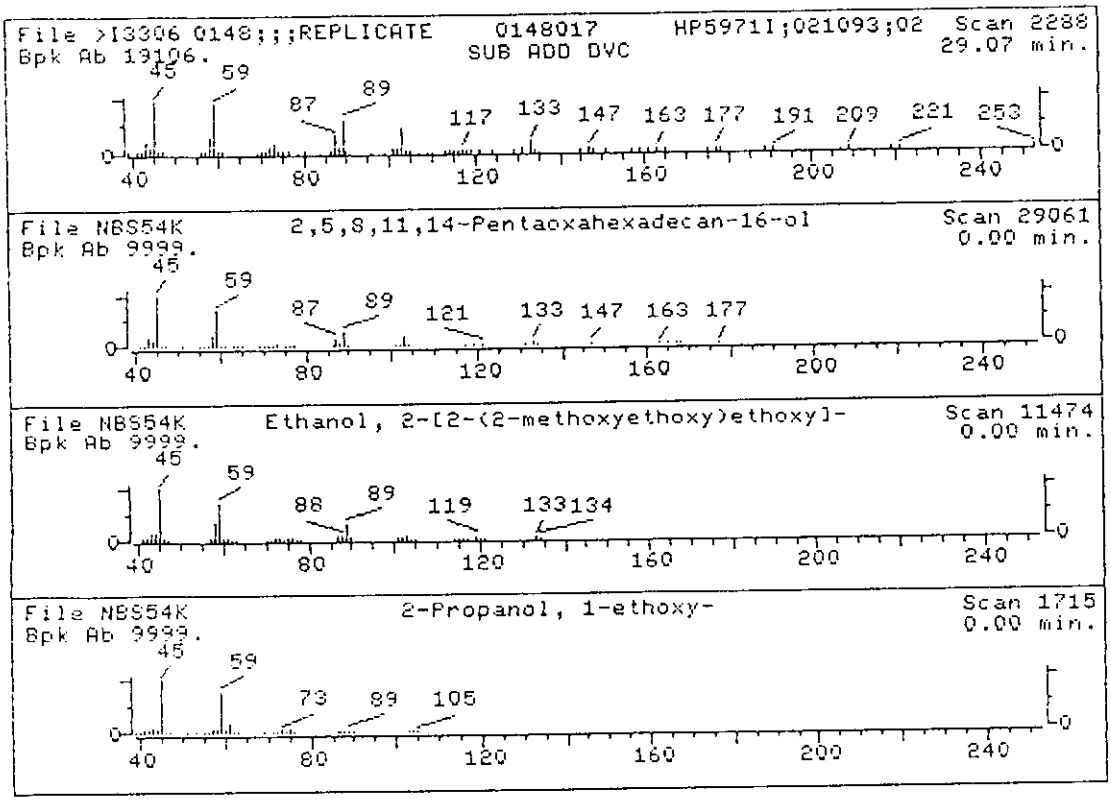


2.	2,5,8,11,14-Pentaoxahexadecan-16-ol	292 C11H2406
2.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H1604
3.	2-Propanol, 1-ethoxy-	104 C5H1202
4.	2-Butanol, 3,3'-oxybis-	162 C8H1803
5.	Propanoic acid, 3-methoxy-, methyl ester	118 C5H1003

Sample file: >I3306 Spectrum #: 2288
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	42	23778521	8670	NBS54K	49	80	0	0	100	26	14	19
2.	30	112356	8547	NBS54K	39	60	0	0	86	40	10	16
3.	26*	1569024	1853	NBS54K	28	66	2	0	100	45	8	14
4.	20	54305612	2000	NBS54K	37	48	1	0	96	53	5	14
5.	20*	3852093	8054	NBS54K	27	75	3	0	100	53	5	13

Peak#: 24 Area: 415731. Est Conc: 45. Date: 02/19/93 14:43 Inst: I

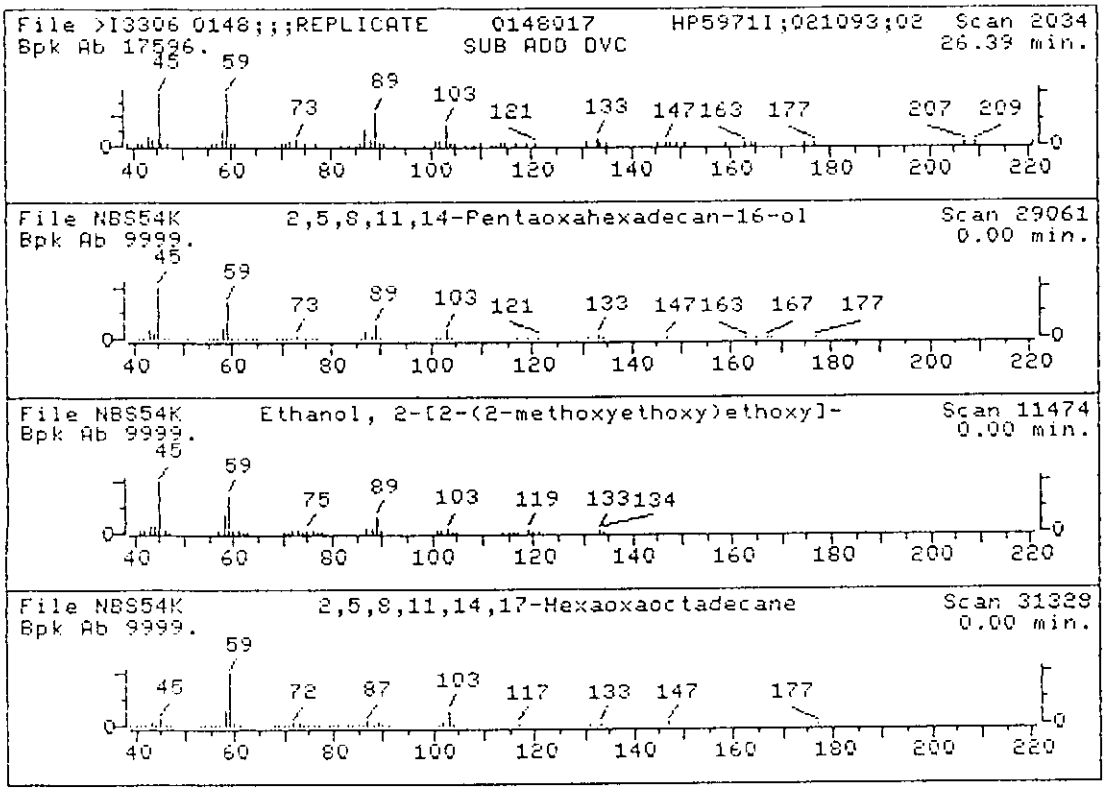


*.	2,5,8,11,14-Pentaoxahexadecan-16-ol	252 C11H2406
.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H1604
3.	2,5,8,11,14,17-Hexaoxaoctadecane	266 C12H2606
4.	2-Butanol, 3,3'-oxybis-	162 C8H1803
5.	2-Butanol, 1-methoxy-	104 C5H1202

Sample file: >I3306 Spectrum #: 2034
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	45	23778521	8670	NBS54K	44	85	0	0	100	24	17	16
2.	37	112356	8547	NBS54K	50	49	1	0	96	26	14	14
3.	29	1191873	2071	NBS54K	46	70	0	0	98	45	8	17
4.	20	54305612	2000	NBS54K	37	48	1	0	98	52	5	14
5.	15*	53778737	1854	NBS54K	32	64	2	0	98	59	3	14

Peak#: 21 Area: 327389. Est Conc: 39. Date: 02/19/93 14:43 Inst: I

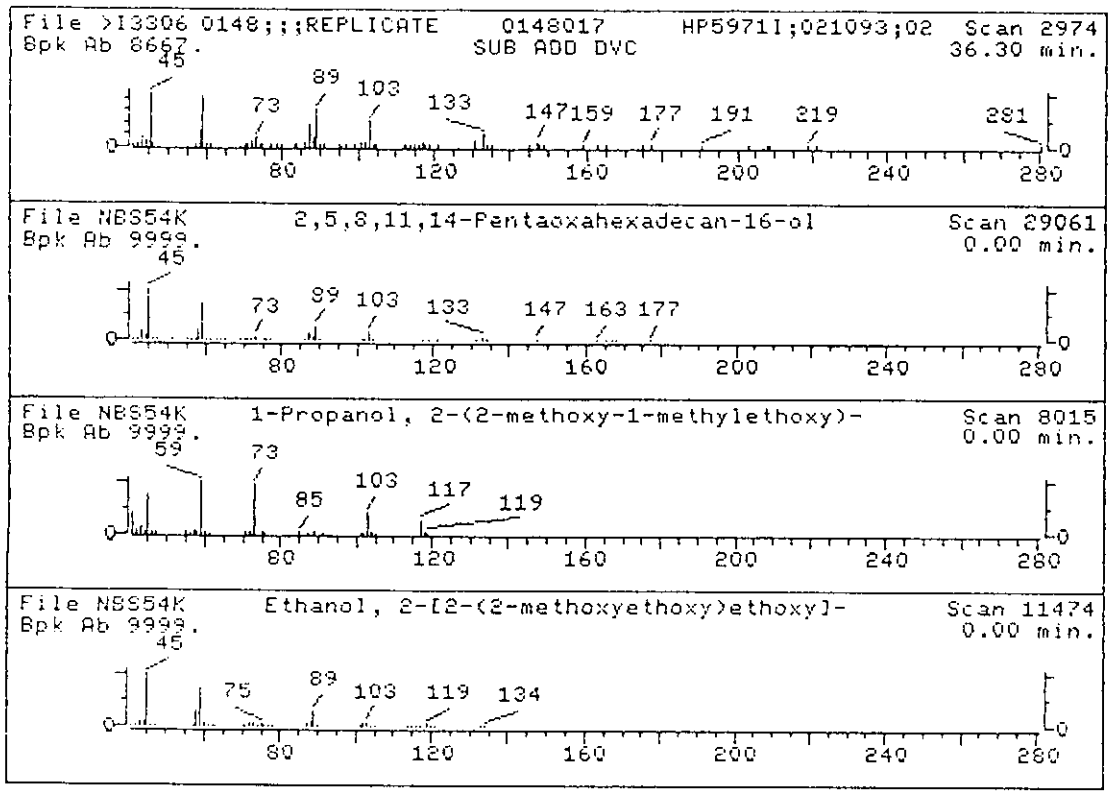


	2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H2406
.	1-Propanol, 2-(2-methoxy-1-methylethoxy)-	148	C7H1603
3.	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H1604
4.	2-Propanol, 1-ethoxy-	104	C5H1202
5.	2-Butanol, 1-methoxy-	104	C5H1202

Sample file: >I3306 Spectrum #: 2974
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	33	23778521	8670	NBS54K	44	85	0	0	100	32	12	16
2.	26	55956213	1970	NBS54K	55	48	2	0	95	40	10	12
3.	25	112356	8547	NBS54K	33	66	0	0	88	48	7	15
4.	20*	1569024	1853	NBS54K	34	60	1	0	100	51	5	18
5.	11*	53778737	1854	NBS54K	32	64	2	0	95	64	2	14

Peak#: 33 Area: 402787. Est Conc: 39. Date: 02/19/93 14:43 Inst: I

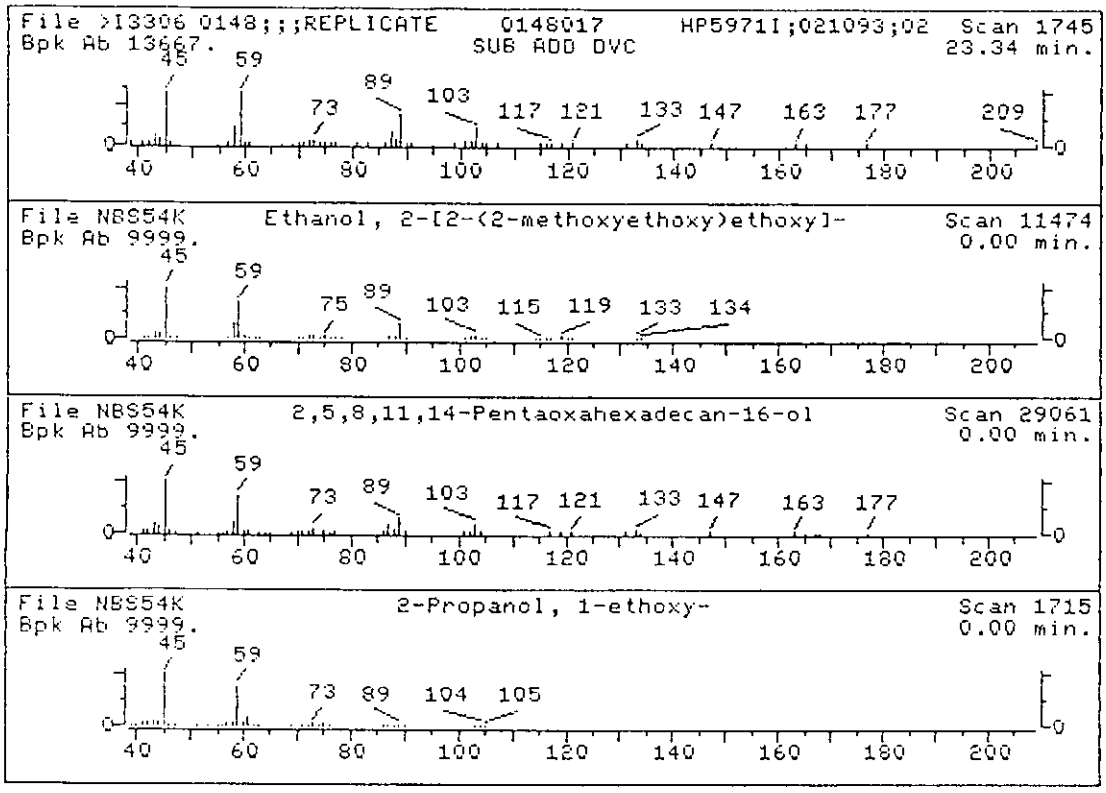


	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
..	2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6
3.	2-Propanol, 1-ethoxy-	104	C5H12O2
4.	Propane, 1,2,3-trimethoxy-	134	C6H14O3
5.	Silane, ethyldimethyl-	88	C4H12Si

Sample file: >I3306 Spectrum #: 1745
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59	112356	8547	NBS54K	62	37	0	0	100	23	27	38
2.	32	23778521	8670	NBS54K	66	63	1	0	110	42	12	23
3.	30*	1569024	1853	NBS54K	34	60	1	0	86	41	8	18
4.	29	20637494	8497	NBS54K	61	51	2	0	72	32	12	12
5.	25*	758214	1807	NBS54K	40	58	2	0	86	50	7	16

Peak#: 18 Area: 183103. Est Conc: 22. Date: 02/19/93 14:43 Inst: I

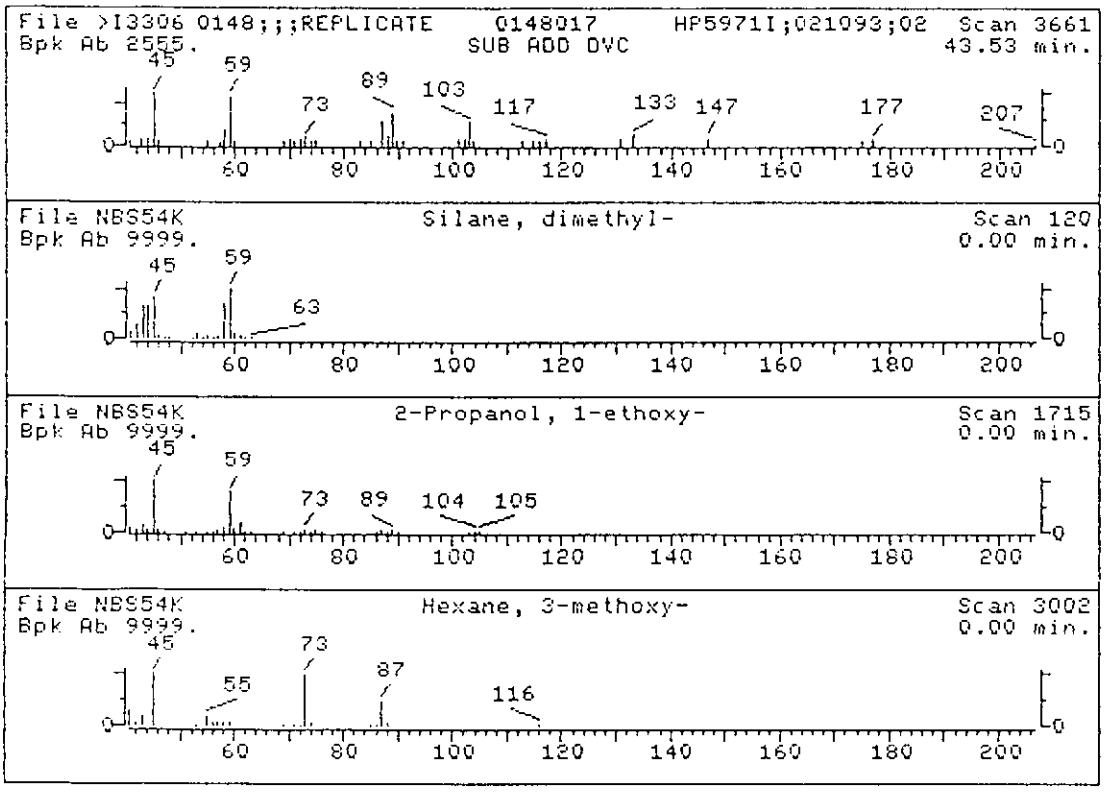


.	Silane, dimethyl-	60 C2H8Si
2.	2-Propanol, 1-ethoxy-	104 C5H12O2
3.	Hexane, 3-methoxy-	116 C7H16O
4.	Silane, triethyl-	116 C6H16Si

Sample file: >I3306 Spectrum #: 3661
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	1111746	1791	NBS54K	32	77	3	0	92	52	5	13
2.	20*	1569024	1853	NBS54K	24	70	1	0	100	52	5	14
3.	11*	54658014	7622	NBS54K	22	63	3	0	93	63	2	12
4.	11*	617867	7614	NBS54K	24	66	3	0	67	62	2	12

Peak#: 36 Area: 176159. Est Conc: 17. Date: 02/19/93 14:43 Inst: I

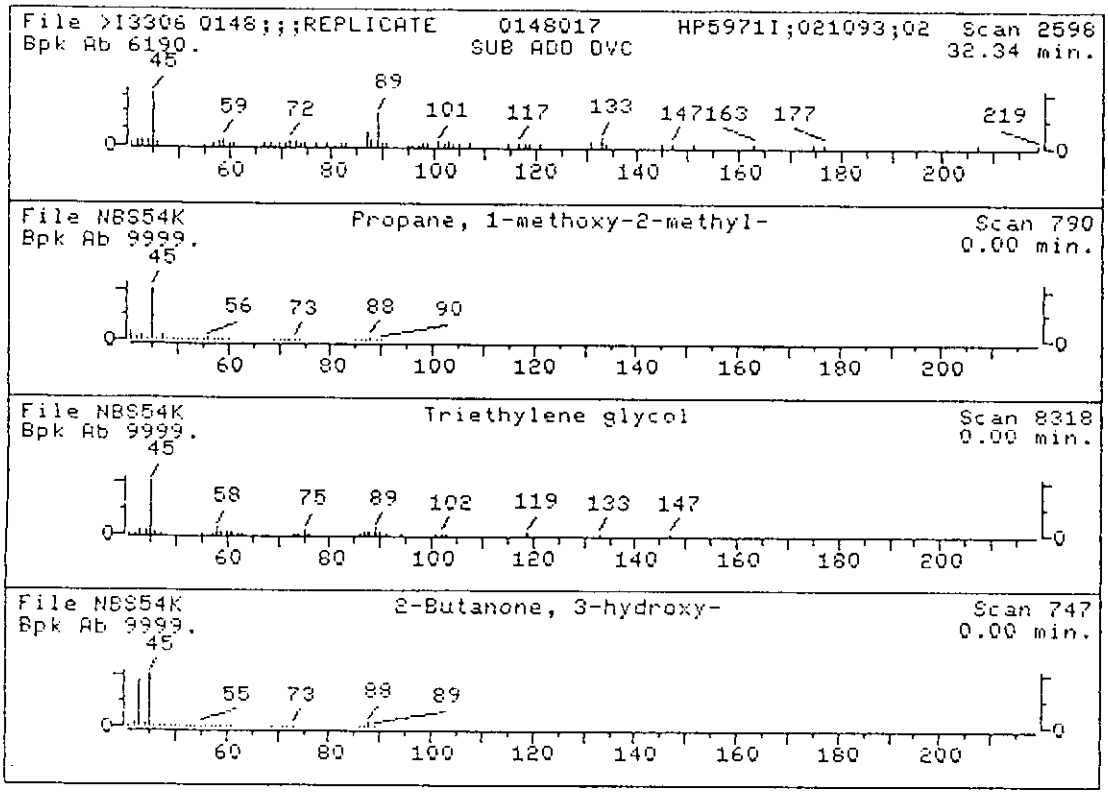


1.	Propane, 1-methoxy-2-methyl-	88 C5H12O
.	Triethylene glycol	150 C6H14O4
.	2-Butanone, 3-hydroxy-	88 C4H8O2
4.	Acetaldehyde, methoxy-	74 C3H6O2
5.	Acetic acid, hydrazino-, ethyl ester, monohydrochloride	154 C4H11ClN2O2

Sample file: >I3306 Spectrum #: 2598
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	625445	348	NBS54K	32	50	2	0	100	47	7	16
2.	25	112276	8525	NBS54K	29	55	0	0	77	47	7	15
3.	25*	513860	346	NBS54K	24	61	2	0	100	46	7	14
4.	20*	10312831	339	NBS54K	22	30	1	0	100	53	5	14
5.	20	6945922	371	NBS54K	33	56	1	0	99	53	5	12

Peak#: 31 Area: 101936. Est Conc: 11. Date: 02/19/93 14:43 Inst: I

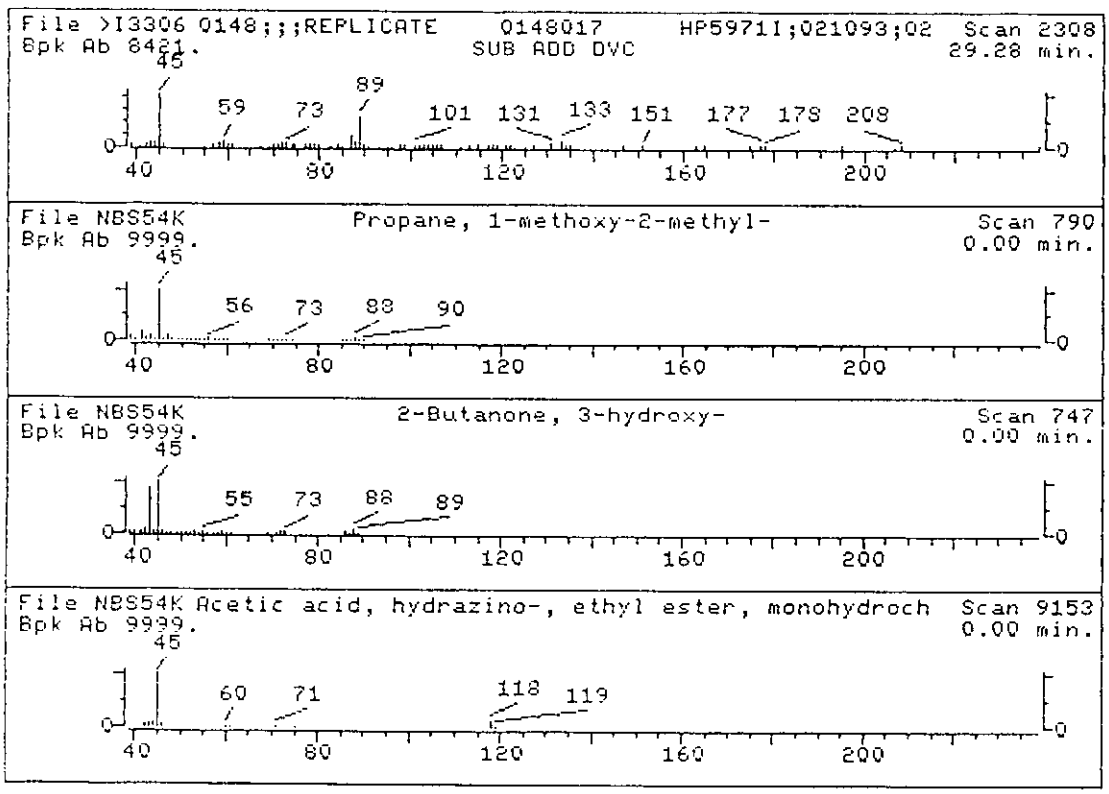


2.	2-Butanone, 3-hydroxy-	88	C4H8O2
3.	Acetic acid, hydrazino-, ethyl ester, monohydrochloride	154	C4H11ClN2O2
4.	1,3-Butanediol	90	C4H10O2
5.	Propanoic acid, 2-hydroxy-, methyl ester, (.+-.)- (9 CI)	104	C4H8O3

Sample file: >I3306 Spectrum #: 2308
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	625445	348	NBS54K	27	55	2	0	100	44	8	14
2.	26*	513860	346	NBS54K	24	61	2	0	100	44	8	14
3.	25	6945922	371	NBS54K	38	51	1	0	88	50	7	14
4.	25*	107880	351	NBS54K	30	45	2	0	100	50	7	15
5.	25*	2155308	153	NBS54K	27	51	2	0	100	49	7	14

Peak#: 25 Area: 83980. Est Conc: 9. Date: 02/19/93 14:43 Inst: I

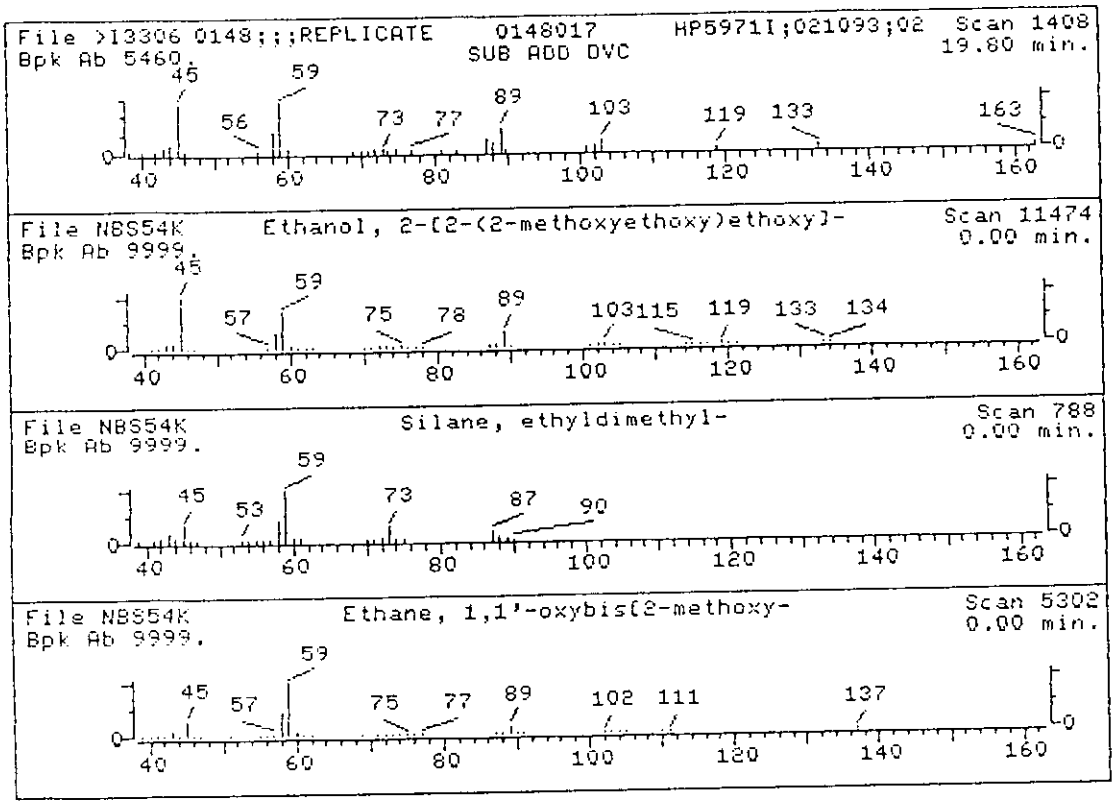


*. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
. Silane, ethyldimethyl-	88	C4H12Si
3. Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3
4. 2-Propanone, 1-methoxy-	88	C4H8O2
5. Triethylene glycol	150	C6H14O4

Sample file: >I3306 Spectrum #: 1408
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	28	112356	8547	NBS54K	55	44	2	0	129	37	10	14
2.	27*	758214	1807	NBS54K	37	61	2	0	100	42	8	15
3.	25	111966	1938	NBS54K	27	63	0	0	92	49	7	14
4.	15*	5878193	1413	NBS54K	22	54	3	0	96	58	3	12
5.	11	112276	8525	NBS54K	28	56	0	0	91	63	2	14

Peak#: 13 Area: 60345. Est Conc: 7. Date: 02/19/93 14:43 Inst: I

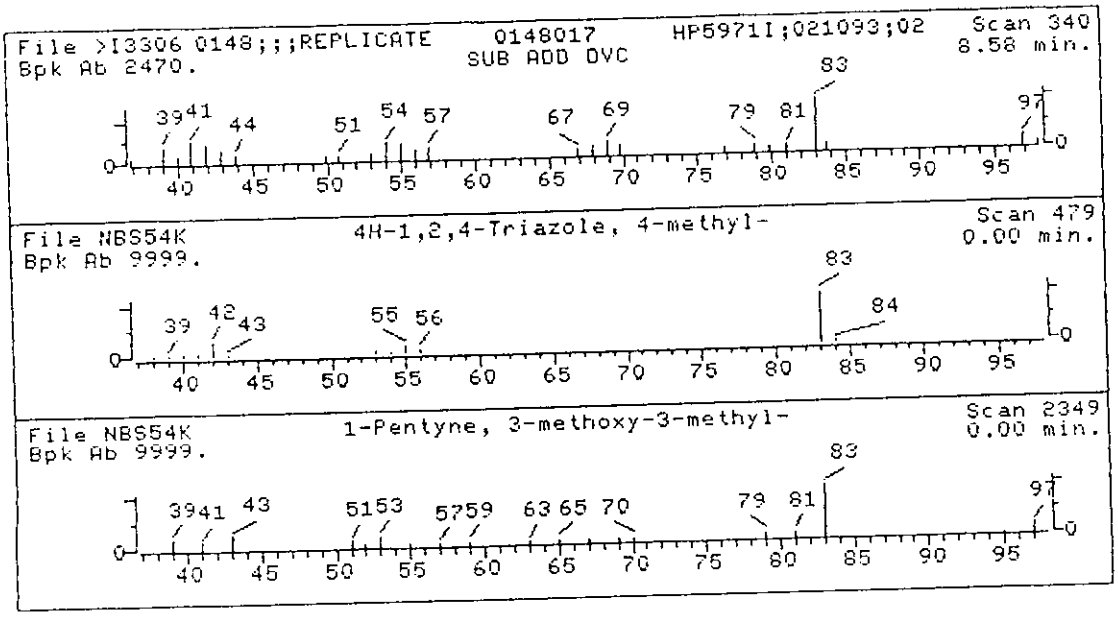


1. 4H-1,2,4-Triazole, 4-methyl- 83 C3H5N3
2. 1-Pentyne, 3-methoxy-3-methyl- 112 C7H12O

Sample file: >I3306 Spectrum #: 340
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	10570408	6458	NBS54K	21	54	1	0	100	42	8	14
2.	26	22802353	6484	NBS54K	44	38	2	0	79	45	8	14

Peak#: 2 Area: 28572. Est Conc: 6. Date: 02/19/93 14:43 Inst: I

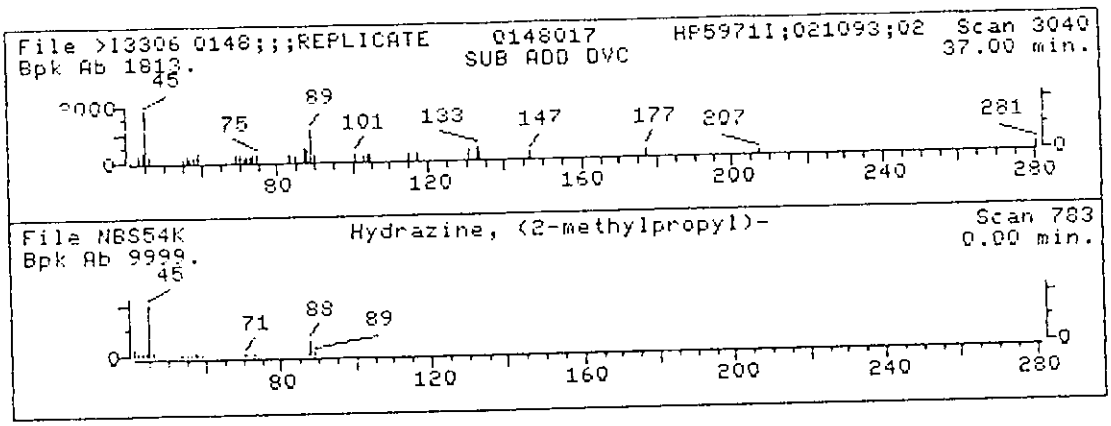


. Hydrazine, (2-methylpropyl)- 88 C4H12N2

Sample file: >I3306 Spectrum #: 3040
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	42504870	8036	NBS54K	24	57	1	0	75	52	5	14

Peak#: 34 Area: 57469. Est Conc: 6. Date: 02/19/93 14:43 Inst: I

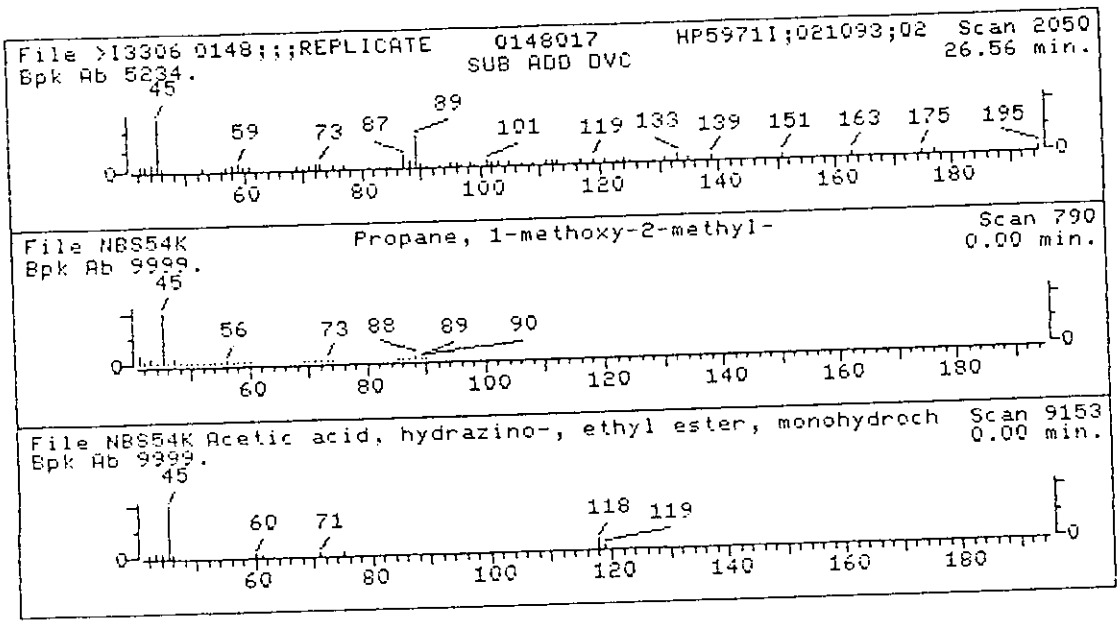


1. Propane, 1-methoxy-2-methyl- 88 C5H12O
2. Acetic acid, hydrazino-, ethyl ester, monohydrochlor 154 C4H11ClN2O2
ide

Sample file: >I3306 Spectrum #: 2050
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	625445	348	NBS54K	28	54	2	0	100	44	8	14
2.	25	6945922	371	NBS54K	33	56	1	0	100	50	7	12

Peak#: 22 Area: 47134. Est Conc: 6. Date: 02/19/93 14:43 Inst: I

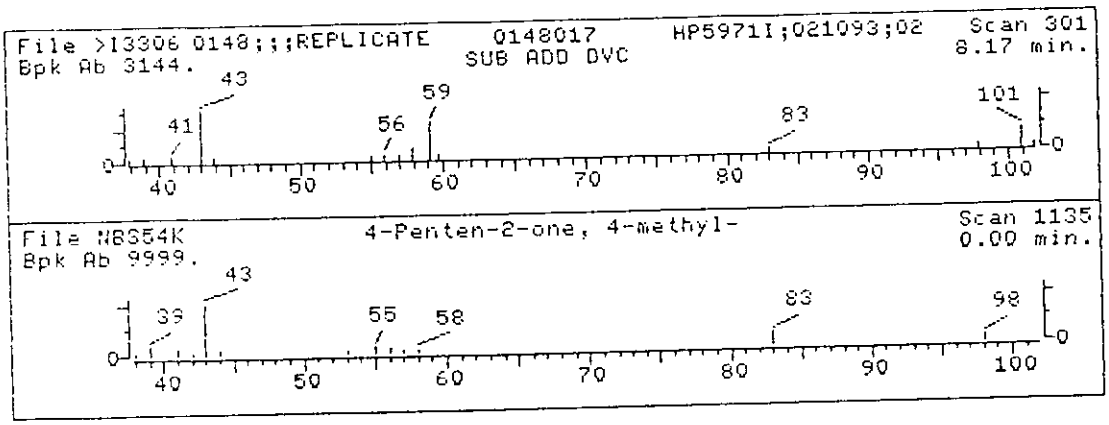


. 4-Penten-2-one, 4-methyl- 98 C6H10O

Sample file: >I3306 Spectrum #: 301
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	3744023	9897	NBS54K	36	43	2	0	71	47	7	18

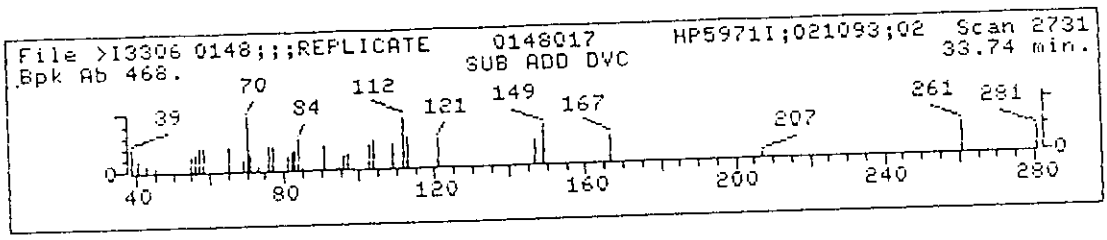
Peak#: 1 Area: 20263. Est Conc: 4. Date: 02/19/93 14:43 Inst: I



Sample file: >I3306 Spectrum #: 2731

No data base entries were retrieved.

Peak#: 32 Area: 26793. Est Conc: 3. Date: 02/19/93 14:43 Inst: I

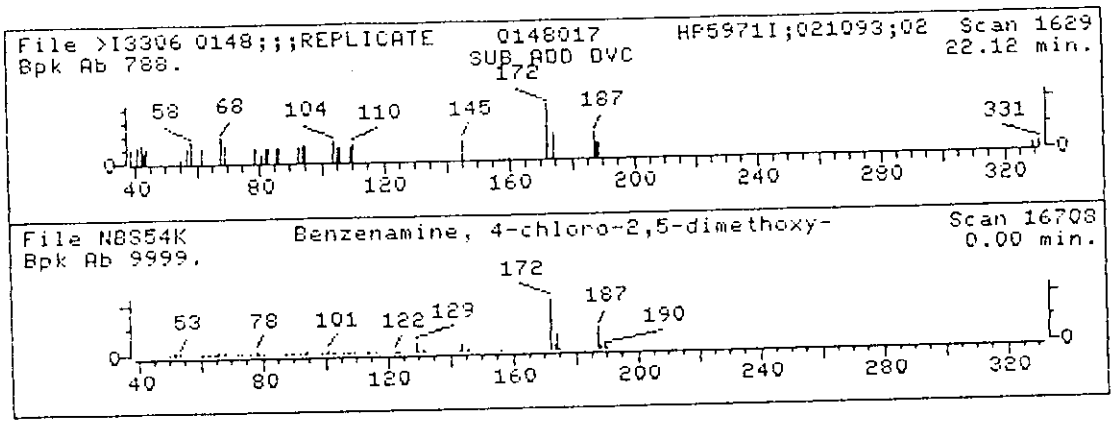


. Benzenamine, 4-chloro-2,5-dimethoxy- 187 C8H10ClNO2

Sample file: >I3306 Spectrum #: 1629
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	25*	6358641	24610	NBS54K	28	89	3	0	100	41	8	13

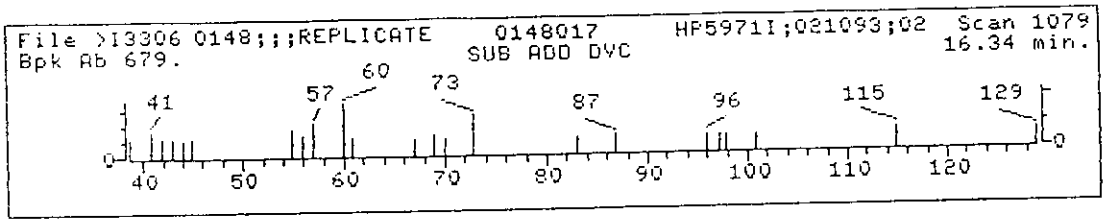
Peak#: 16 Area: 21122. Est Conc: 3. Date: 02/19/93 14:43 Inst: I



Sample file: >I3306 Spectrum #: 1079

No data base entries were retrieved.

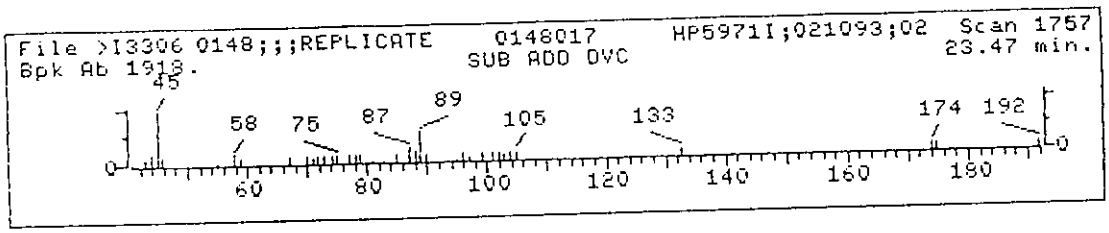
Peak#: 11 Area: 19875. Est Conc: 3. Date: 02/19/93 14:43 Inst: I



Sample file: >I3306 Spectrum #: 1757

No data base entries were retrieved.

Peak#: 19 Area: 25156. Est Conc: 3. Date: 02/19/93 14:43 Inst: I

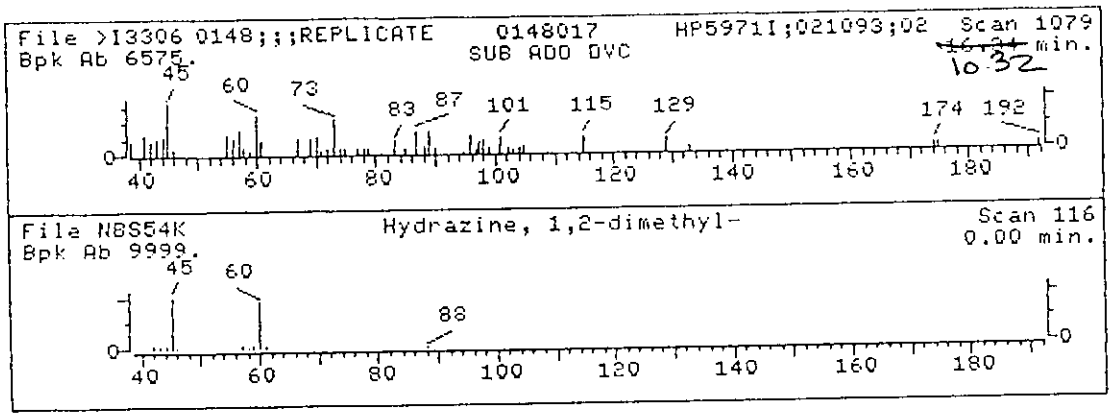


. Hydrazine, 1,2-dimethyl- 60 C2H8N2

Sample file: >I3306 Spectrum #: 1079
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	540738	2094	NBS54K	24	70	0	0	85	49	7	17

Peak#: 4 Area: 10488. Est Conc: 2. Date: 02/19/93 14:43 Inst: I



amc 2/26/93

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0623

Matrix: (soil/water) WATER Lab Sample ID: 0148019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3307.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	23	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	4	J

0624

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3307.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	4	J
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	2	J
120-12-7	Anthracene	10	U
86-74-8	Carbazole	6	J
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

0625

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-23

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3307.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 020 GMC 2/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	31.82	46	J
2.		UNKNOWN DIMETHYL-NAPHTHALENE	19.00	21	
3.		UNKNOWN $C_{11}H_{16}$	17.11	16	
4.		UNKNOWN TRIMETHYL-NAPHTHALENE	20.76	13	
5.		UNKNOWN METHYL-BENZO[B]THIOPHENE	17.01	12	
6.		UNKNOWN $C_{10}H_{12}$	14.65	12	
7.		UNKNOWN DIMETHYL-NAPHTHALENE	18.76	12	
8.		UNKNOWN C_4 ALKYL BENZENE	14.07	11	
9.		UNKNOWN $C_{11}H_{14}$	15.48	11	
10.		UNKNOWN DIMETHYL-NAPHTHALENE	19.29	10	
11.		↓ ↓ ↓	19.53	10	
12.		UNKNOWN	15.40	9	
13.		UNKNOWN $C_{13}H_{12}$	21.51	9	
14.		UNKNOWN C_3 ALKYL BENZENE	12.52	9	
15.		UNKNOWN C_4 ALKYL BENZENE	13.99	8	
16.		UNKNOWN $C_{10}H_{12}$	14.44	8	
17.		UNKNOWN	16.80	7	
18.		↓	15.98	7	
19.			28.99 ~~19.98~~	6	
20.		↓	14.88	6	↓
21.		~~UNKNOWN C_4 ALKYL BENZENE~~	~~13.20~~	~~5~~	
22.			~~12.84~~	~~5~~	
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT Page 1

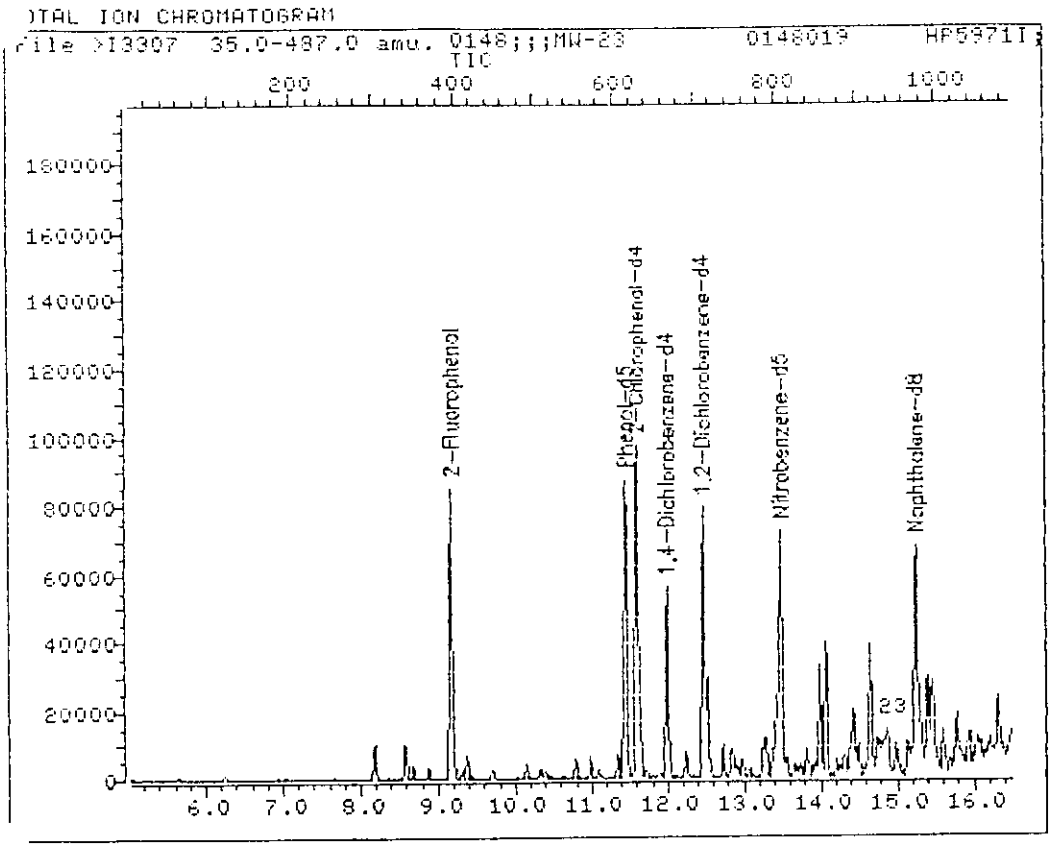
Operator ID: USER1 Quant Rev: 7 Quant Time: 930222 18:00
Output File: ^I3307::A6 Injected at: 930219 15:43
Data File: >I3307::A5 Dilution Factor: .50000
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.00	151.8	19167	40.00	ug	93
2)	2-Chlorophenol-d4	11.61	132.0	67442	55.07	ug	82
3)	2-Fluorophenol	9.17	111.8	69300	55.37	ug	73
4)	Phenol-d5	11.46	98.8	102710	60.06	ug	64
5)	Phenol	11.48	93.9	537^	.357	ug	78
9)	1,4-Dichlorobenzene	12.04	146.7	398	.299	ug	47
10)	1,2-Dichlorobenzene-d4	12.47	152.0	30827	38.50	ug	94
17)	*Naphthalene-d8	15.25	135.9	67185	40.00	ug	98
18)	Nitrobenzene-d5	13.48	81.8	51056	37.95	ug	70
7	bis(2-Chloroethoxy)methane	14.03	92.8	354	.185	ug	74
23)	4-Chloro-3-methylphenol	17.17	106.9	243	.196	ug	59
30)	2-Methylnaphthalene	17.40	141.9	54825	23.37	ug	96
31)	*Acenaphthene-d10	19.90	163.9	39069	40.00	ug	96
35)	2-Fluorobiphenyl	18.14	171.8	87625	36.43	ug	97
36)	2-Chloronaphthalene	19.65	161.8	2085^	.948	ug	56
40)	2,6-Dinitrotoluene	19.51	164.8	616^	.894	ug	74
42)	Acenaphthene	19.98	152.9	8905	4.51	ug	98
45)	Dibenzofuran	20.40	167.8	11078	3.59	ug	94
47)	Diethylphthalate	21.16	149.9	2028	.739	ug	71
49)	Fluorene	21.32	165.9	16186	8.08	ug	97
51)	2,4,6-Tribromophenol	22.04	329.6	32593	57.17	ug	98
52)	*Phenanthrene-d10	23.79	187.9	67753	40.00	ug	98
53)	4,6-Dinitro-2-methylphenol	21.70	197.9	238	.426	ug	43
58)	Phenanthrene	23.85	177.9	7882	2.52	ug	92
59)	Carbazole	24.43	166.8	6226	6.21	ug	89
60)	Anthracene	23.96	177.9	1282	.400	ug	76
61)	Di-n-butylphthalate	25.45	149.0	1713	.399	ug	31
62)	Fluoranthene	27.01	201.9	1325	.382	ug	1
63)	*Chrysene-d12	31.07	240.0	59038	40.00	ug	97
69)	Terphenyl-d14	28.04	244.0	89168	34.26	ug	97
66)	Butylbenzylphthalate	29.32	149.0	984	.460	ug	23
70)	bis(2-Ethylhexyl)phthalate	31.20	149.0	6416	2.42	ug	98
71)	*Perylene-d12	37.74	264.0	56449	40.00	ug	97
72)	Di-n-octylphthalate	33.74	149.9	1614	.324	ug	5

Compound is ISTD

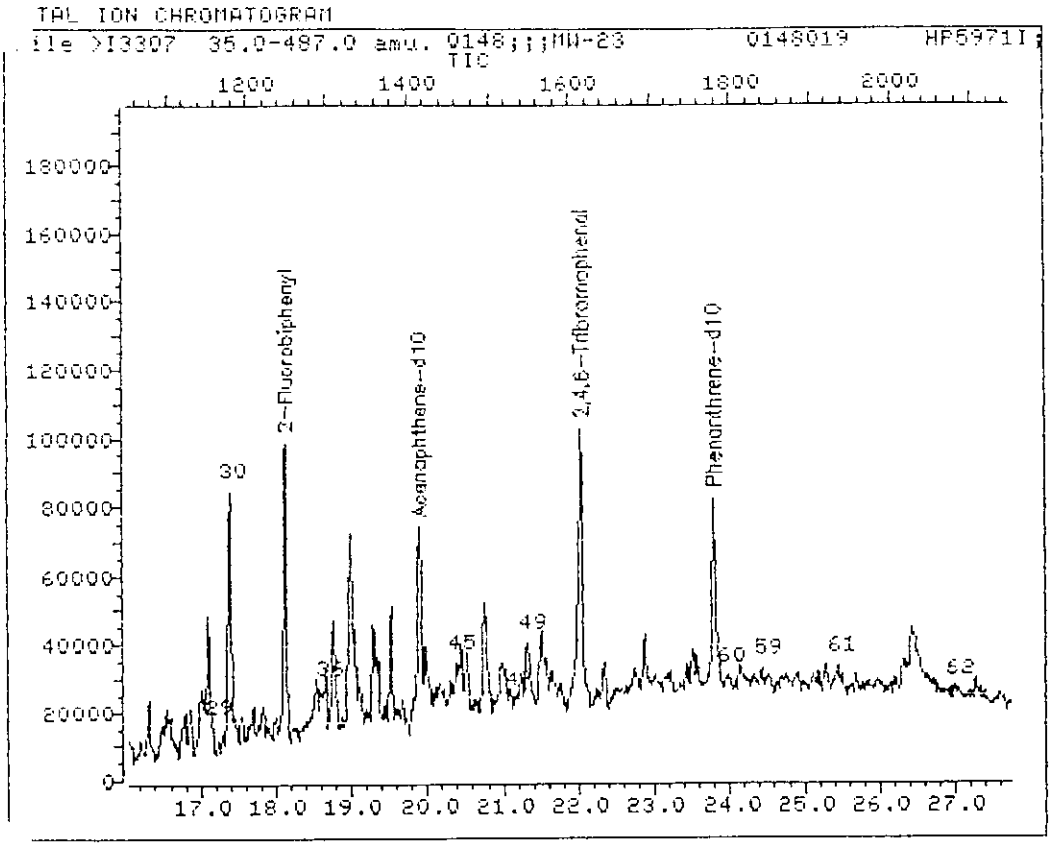
4/22/93



Data File: >I3307::A5 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

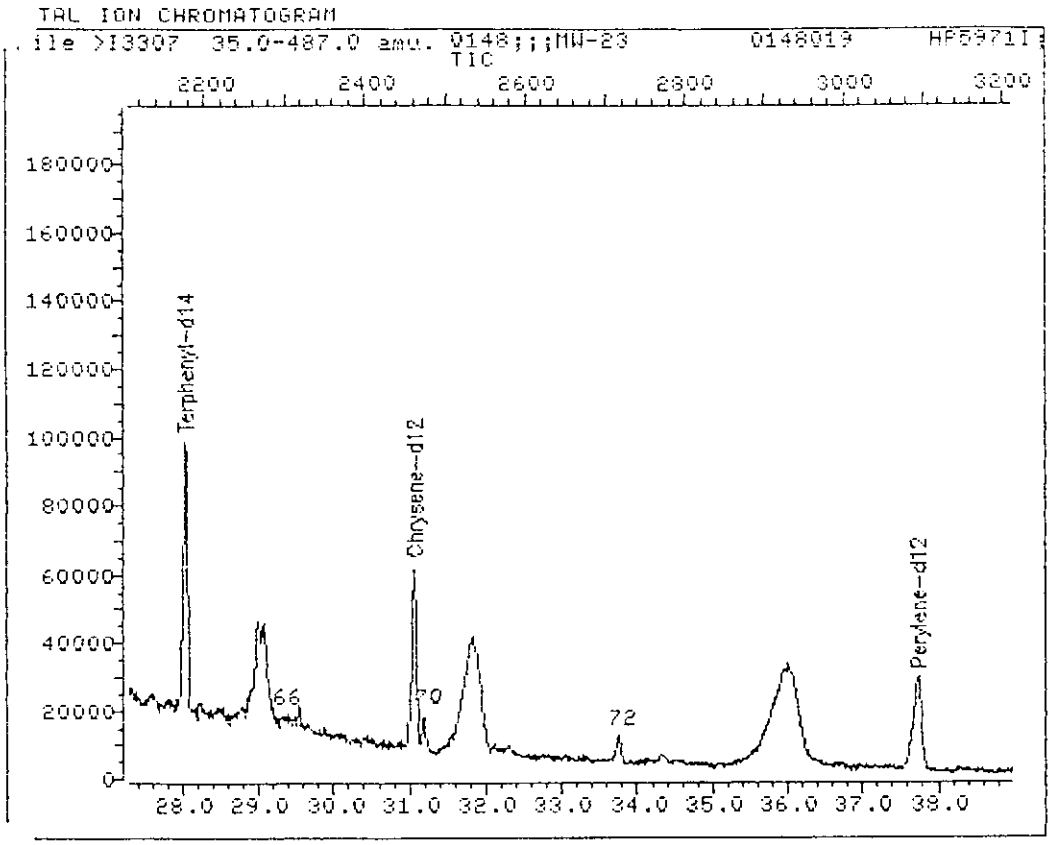
Operator ID: USER1
Quant Time : 930222 18:00
Injected at: 930219 15:43



Data File: >I3307::A5 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

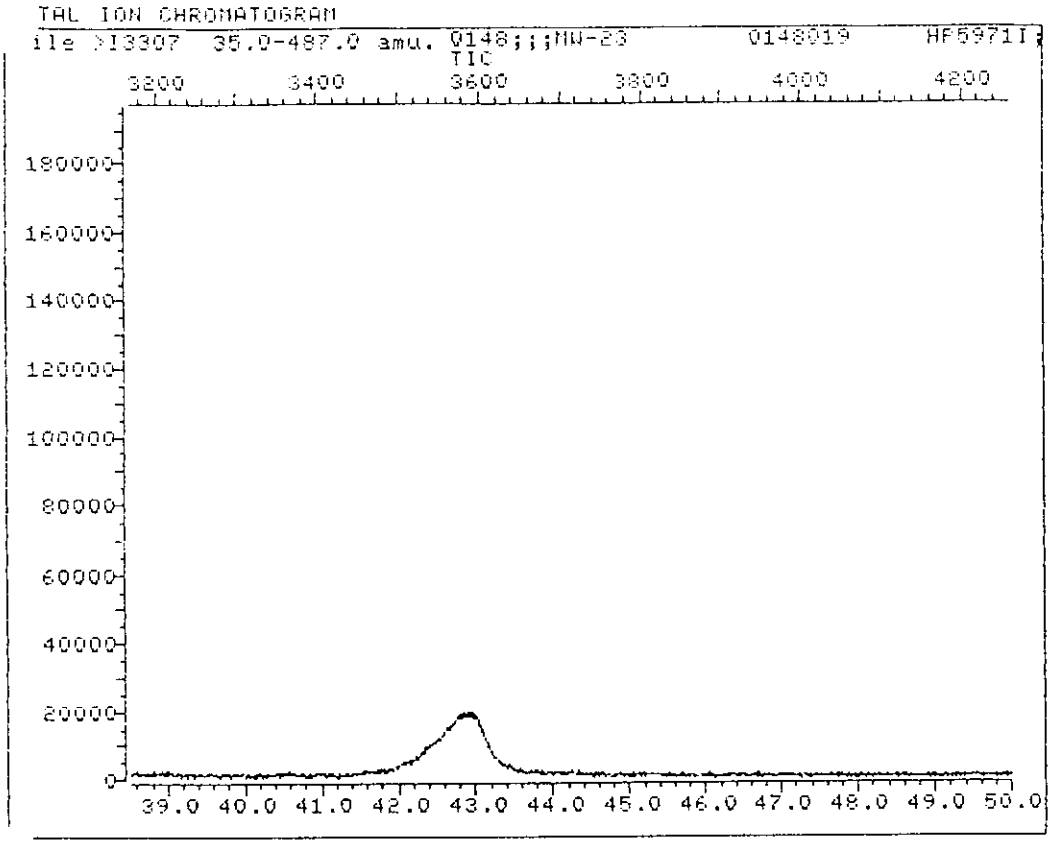
Operator ID: USER1
Quant Time : 930222 18:00
Injected at: 930219 15:43



Data File: >I3307::A5 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

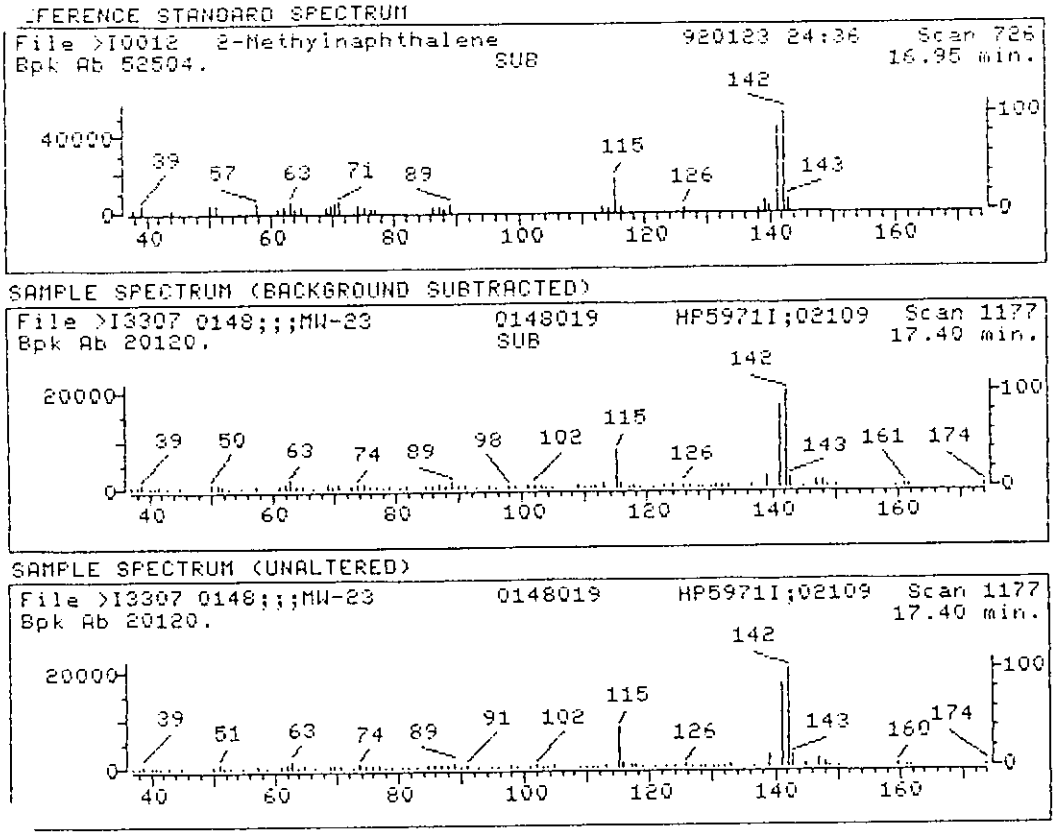
Operator ID: USER1
Quant Time : 930222 18:00
Injected at: 930219 15:43



Data File: >I3307::A5 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

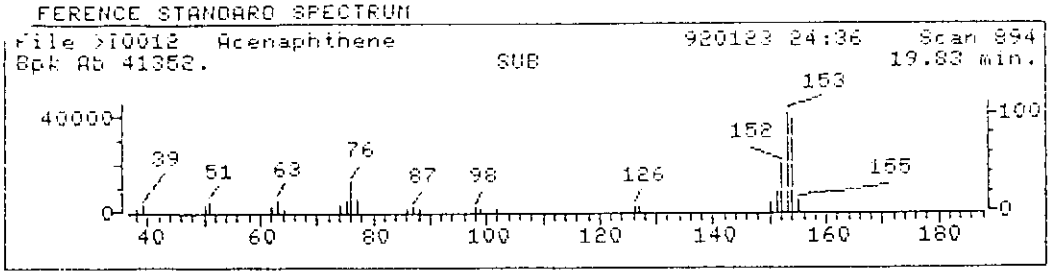
Operator ID: USER1
Quant Time : 930222 18:00
Injected at: 930219 15:43



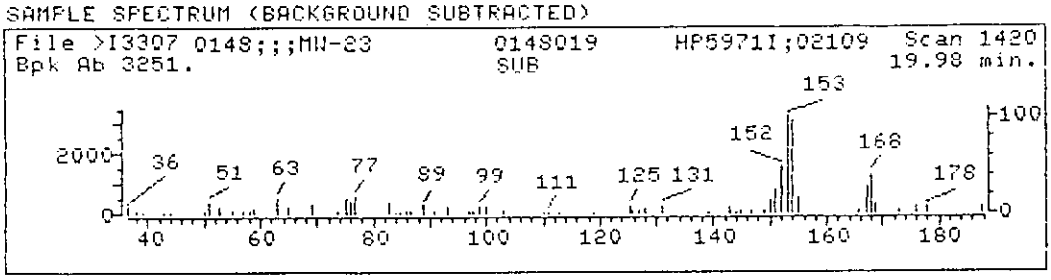
Data File: >I3307::A2 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 16:43 Quant ID File: I_IFI::A5
Injected at: 930219 15:43 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 30
Compound Name : 2-Methylnaphthalene
Scan Number : 1177
Retention Time: 17.40 min.
Quant Ion : 141.9
Area : 54825
Concentration : 23.37 ug
q-value : 96

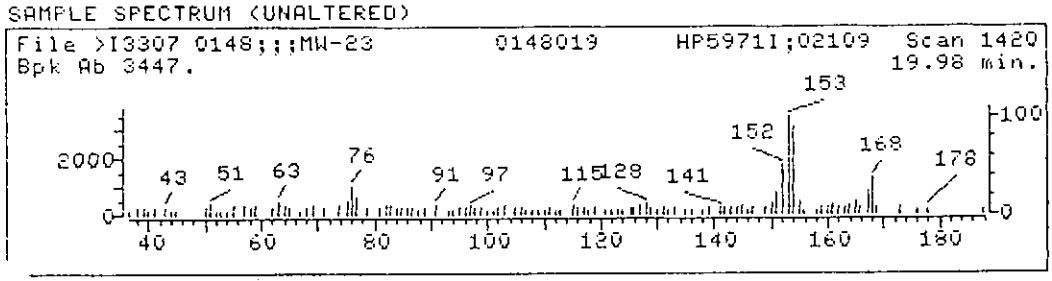
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



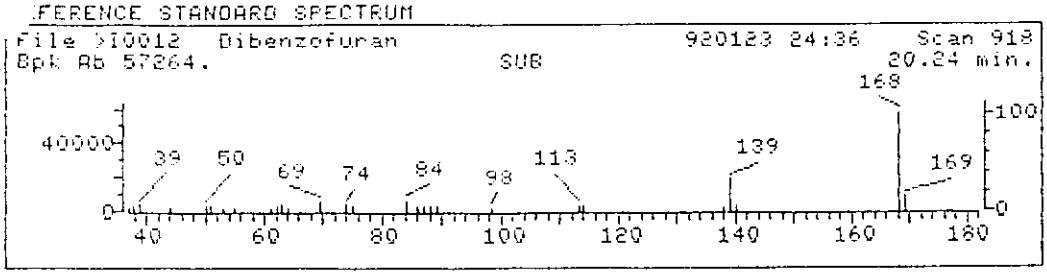
SAMPLE SPECTRUM (UNALTERED)



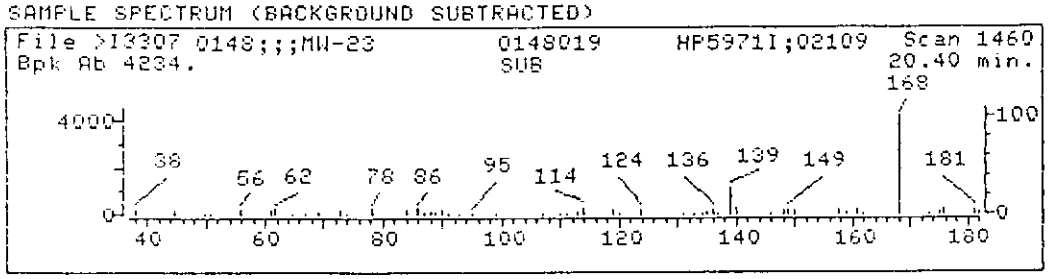
Data File: >I3307::A2 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 16:43 Quant ID File: I_IFI::A5
Injected at: 930219 15:43 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 42
Compound Name : Acenaphthene
Scan Number : 1420
Retention Time: 19.98 min.
Quant Ion : 152.9
Area : 8905
Concentration : 4.51 ug
q-value : 98

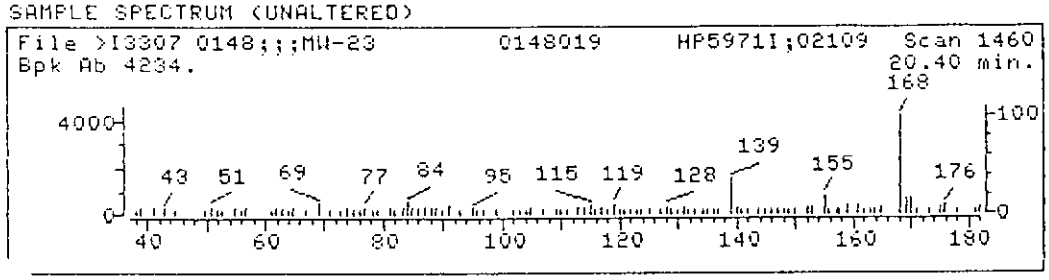
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

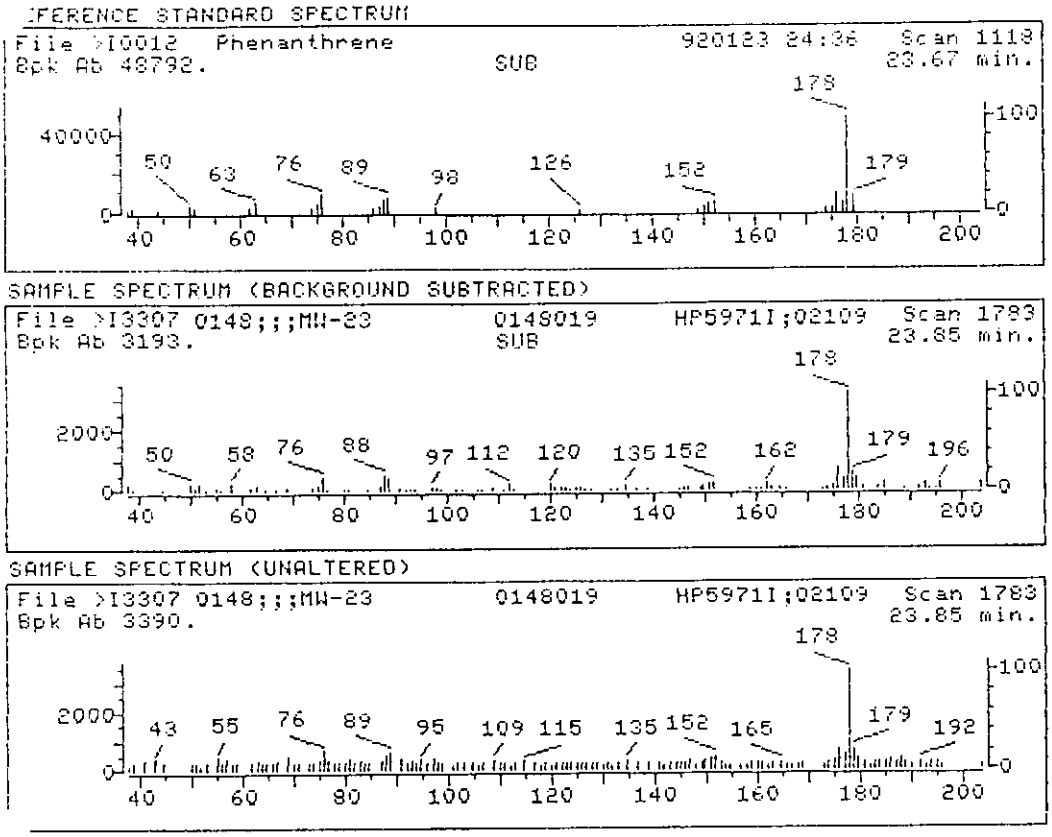


SAMPLE SPECTRUM (UNALTERED)



Data File: >I3307::A2 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 16:43 Quant ID File: I_IFI::A5
Injected at: 930219 15:43 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

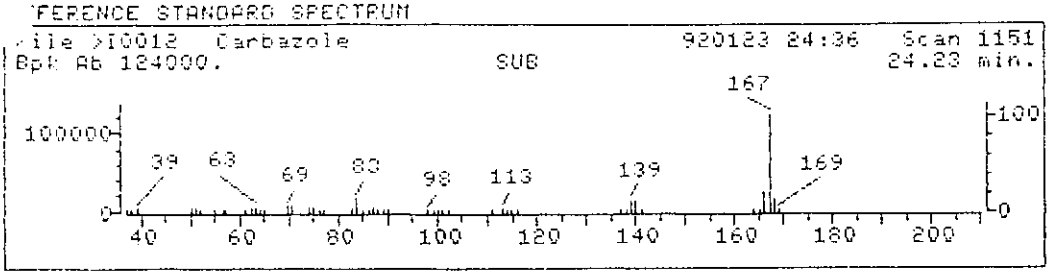
Compound No : 45
Compound Name : Dibenzofuran
Scan Number : 1460
Retention Time: 20.40 min.
Quant Ion : 167.8
Area : 11078
Concentration : 3.59 ug
q-value : 94



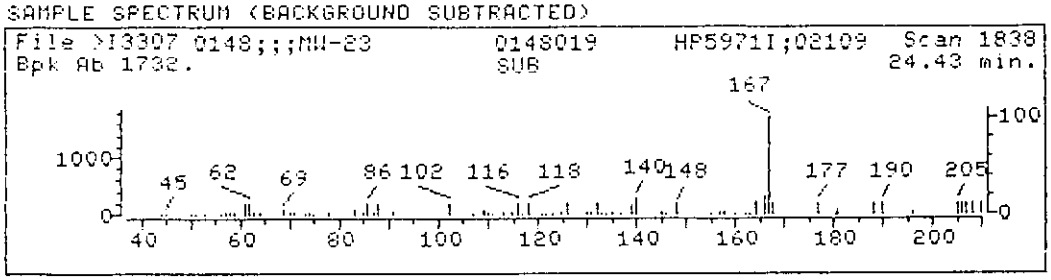
Data File: >I3307::A2 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 16:43 Quant ID File: I_IFI::A5
Injected at: 930219 15:43 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 58
Compound Name : Phenanthrene
Scan Number : 1783
Retention Time: 23.85 min.
Quant Ion : 177.9
Area : 7882
Concentration : 2.52 ug
q-value : 92

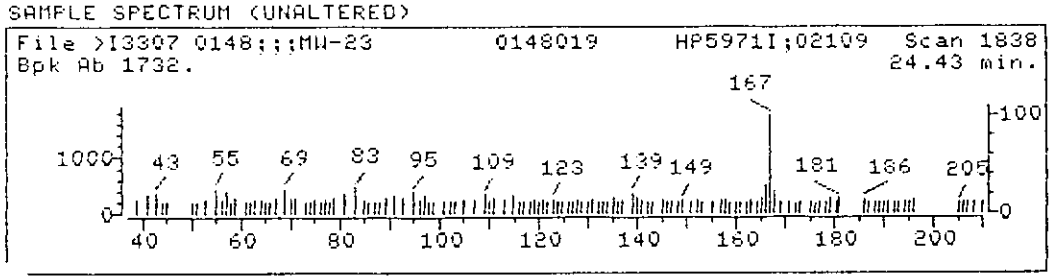
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



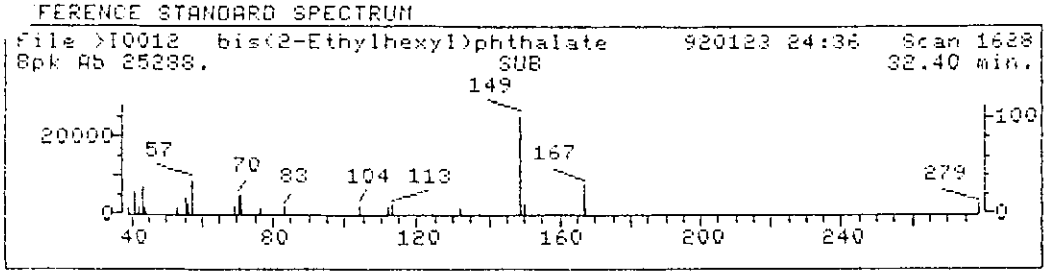
SAMPLE SPECTRUM (UNALTERED)



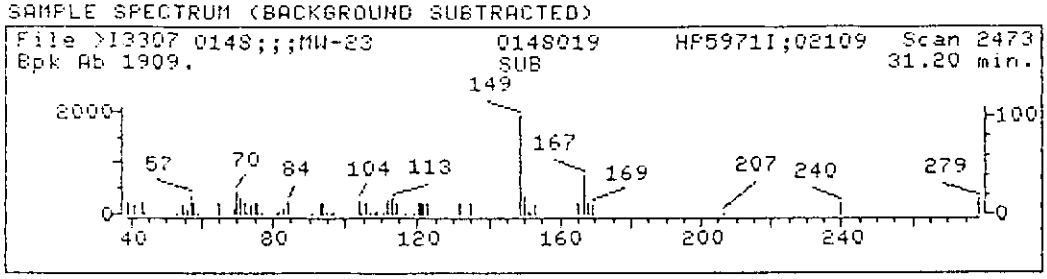
Data File: >I3307::A2 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 16:43 Quant ID File: I_IFI::A5
Injected at: 930219 15:43 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

Compound No : 59
Compound Name : Carbazole
Scan Number : 1838
Retention Time: 24.43 min.
Quant Ion : 166.8
Area : 6226
Concentration : 6.21 ug
q-value : 89

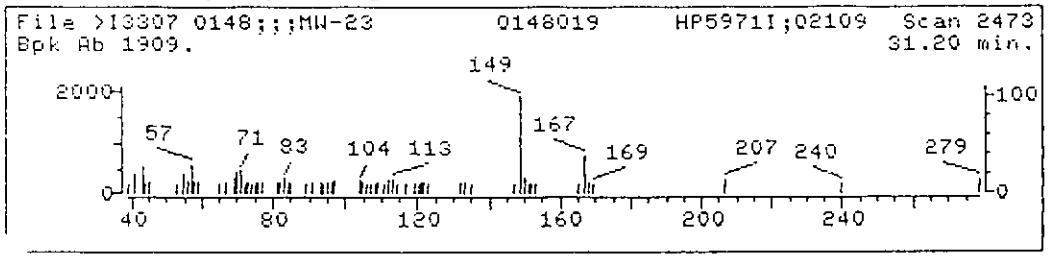
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >I3307::A2 Quant Output File: ^I3307::A6
Name: 0148;;;MW-23 Instrument ID: **MSD
Misc: 0148019 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 16:43 Quant ID File: I_IFI::A5
Injected at: 930219 15:43 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

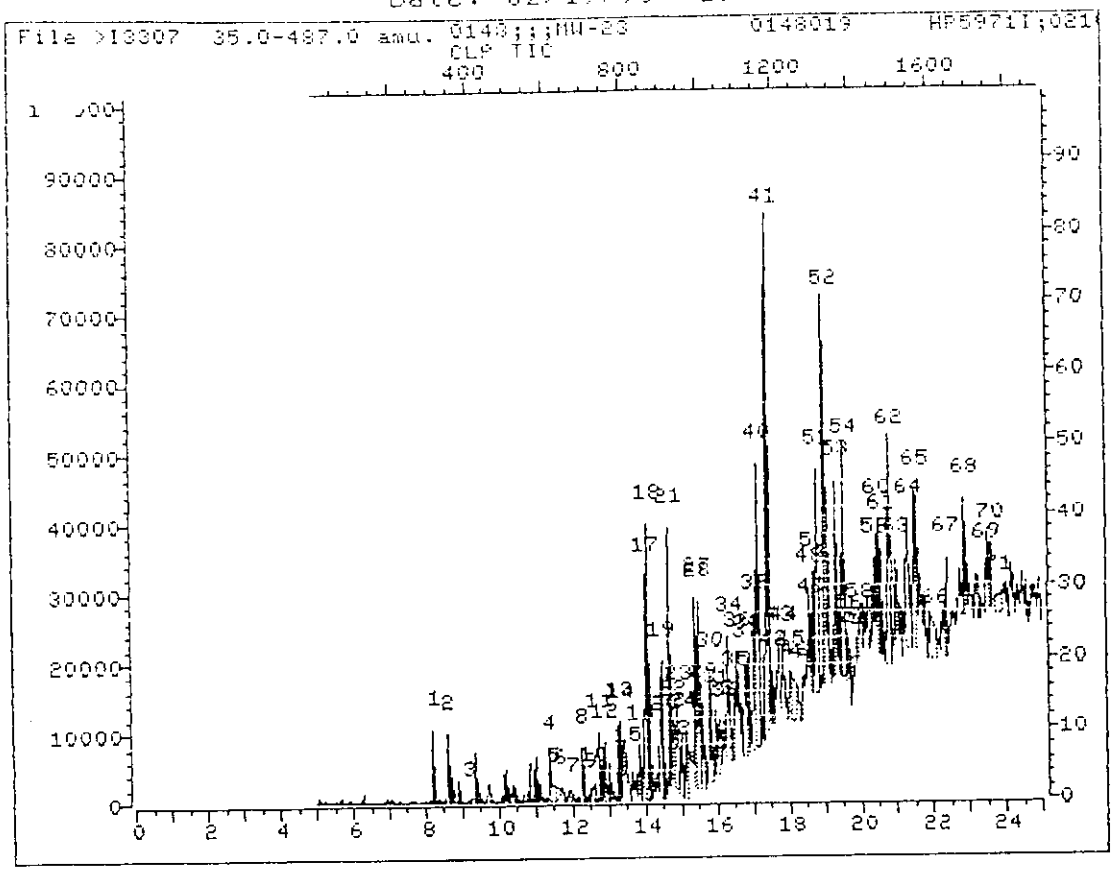
Compound No : 70
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 2473
Retention Time: 31.20 min.
Quant Ion : 148.8
Area : 6416
Concentration : 2.42 ug
q-value : 98

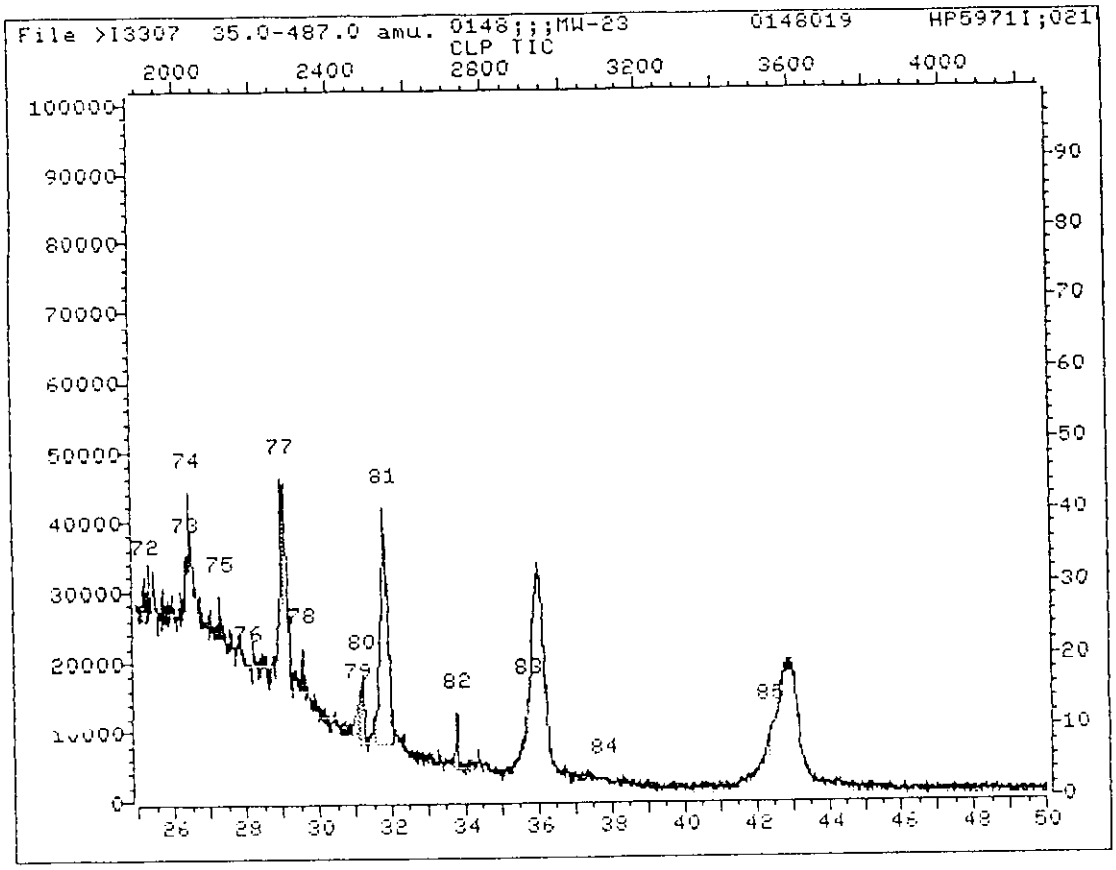
MS data file header from : >I3307::A5

Sample: 0148;;;MW-23 Operator: USER1 2/19/93 15:43
Misc : 0148019 HP5971I;021093;021193;LLW;1;;;I02
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 5 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

Date: 02/19/93 19:43 Inst: I





MW-23
HP5971I
0639

Date: 02/19/93 15:43 Inst: I

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
81.	31.82	504923.	46.	5.	.50
52.	19.00	184064.	21.	3.	.50
40.	17.11	128812.	16.	2.	.50
62.	20.76	116537.	13.	3.	.50
39.	17.01	96136.	12.	2.	.50
21.	14.65	96929.	12.	2.	.50
51.	18.76	105493.	12.	3.	.50
18.	14.07	86226.	11.	2.	.50
28.	15.45	89328.	11.	2.	.50
53.	19.29	90670.	10.	3.	.50
54.	19.53	86278.	10.	3.	.50
27.	15.40	70789.	9.	2.	.50
65.	21.51	82103.	9.	3.	.50
10.	12.52	54179.	9.	1.	.50
17.	13.99	65517.	8.	2.	.50
19.	14.44	64308.	8.	2.	.50
37.	16.80	58000.	7.	2.	.50
30.	15.78	58346.	7.	2.	.50
~~59.~~	~~19.98~~	~~56672.~~	6.	3.	.50 target
77.	28.99	69476.	6.	5.	.50
23.	14.88	47386.	6.	2.	.50
13.	13.26	29323.	5.	1.	.50
	12.84	26859.	5.	1.	.50
	18.67	41137.	5.	3.	.50
1.	8.18	22314.	4.	1.	.50
38.	16.87	34561.	4.	2.	.50
11.	12.72	20925.	4.	1.	.50
60.	20.45	37088.	4.	3.	.50
61.	20.53	38446.	4.	3.	.50
29.	15.60	32212.	4.	2.	.50
63.	20.98	31881.	4.	3.	.50
2.	8.57	22467.	4.	1.	.50
68.	22.87	46578.	4.	4.	.50
34.	16.32	34311.	4.	2.	.50
35.	16.50	35240.	4.	2.	.50
14.	13.29	16251.	3.	1.	.50
22.	14.74	20968.	3.	2.	.50
8.	12.23	19114.	3.	1.	.50
48.	18.54	22165.	3.	3.	.50
31.	15.95	24102.	3.	2.	.50
32.	16.05	24882.	3.	2.	.50
67.	22.34	31304.	3.	4.	.50
24.	15.00	24796.	3.	2.	.50
25.	15.13	26650.	3.	2.	.50
20.	14.50	22538.	3.	2.	.50

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.00	119203.	0.00	13.62	6.2
NAPHTHALENE-D8	15.25	161527.	13.62	17.58	2.4
ACENAPHTHENE-D10	19.90	176104.	17.58	21.85	4.5

0640

ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	16
Target peaks matched:	4
Total TIC identified:	54

MW23

HP5971 I

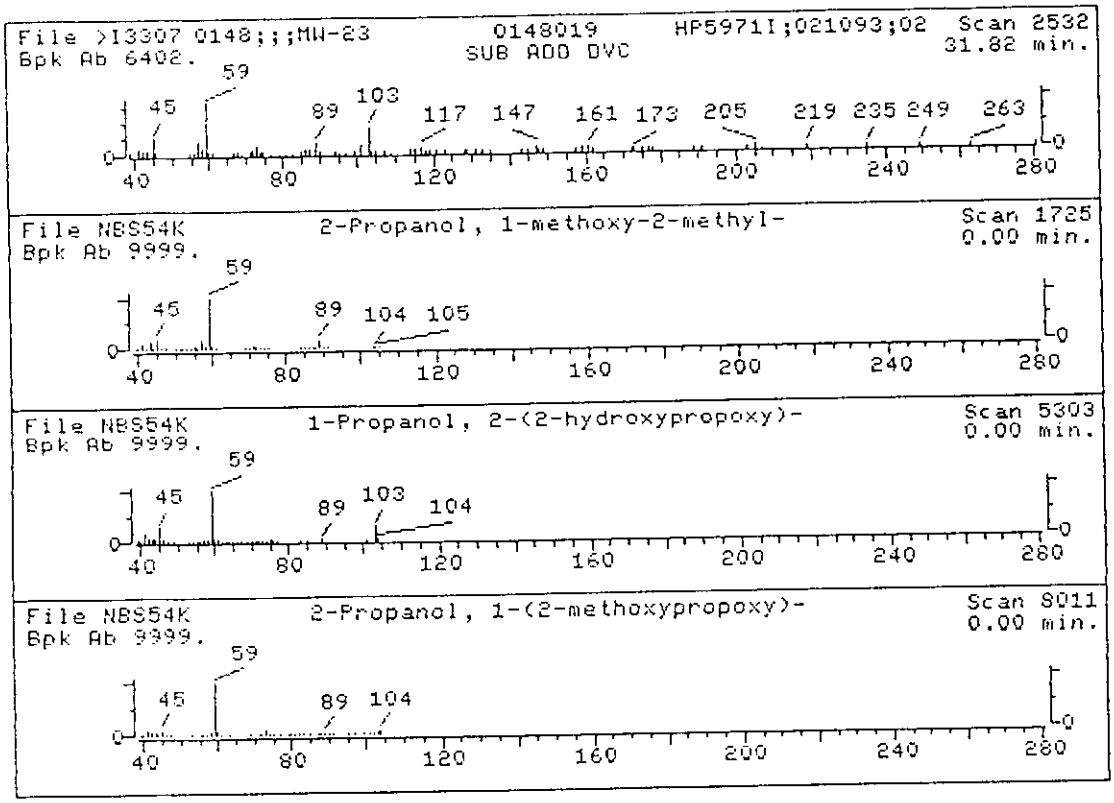
TICS : 4:48 PM MON., 22 FEB., 1993

2.	2-Propanol, 1-methoxy-2-methyl-	104 C5H12O2
3.	1-Propanol, 2-(2-hydroxypropoxy)-	134 C6H14O3
3.	2-Propanol, 1-(2-methoxypropoxy)-	148 C7H16O3
4.	Pentanamide	101 C5H11NO
5.	Pentanamide, 4-methyl-	115 C6H13NO

Sample file: >I3307 Spectrum #: 2532
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	3587642	1855	NBS54K	29	62	2	0	100	43	8	14
2.	25	106627	1939	NBS54K	35	51	1	0	89	43	8	13
3.	24	13429077	1968	NBS54K	40	45	0	0	88	54	7	22
4.	20*	626971	1827	NBS54K	32	53	2	0	100	54	5	16
5.	20*	1119295	1866	NBS54K	31	56	3	0	100	54	5	13

Peak#: 81 Area: 504923. Est Conc: 46. Date: 02/19/93 15:43 Inst: I

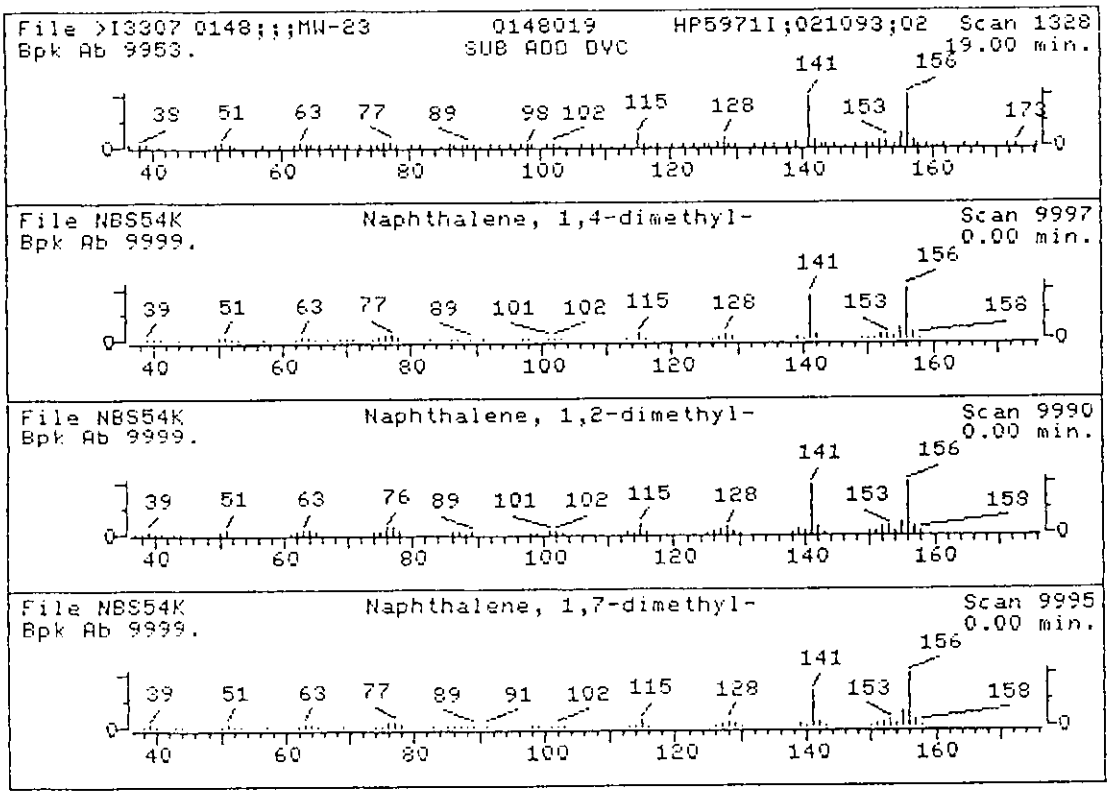


.	Naphthalene, 1,4-dimethyl-	156 C12H12
..	Naphthalene, 1,2-dimethyl-	156 C12H12
3.	Naphthalene, 1,7-dimethyl-	156 C12H12
4.	Naphthalene, 2,3-dimethyl-	156 C12H12
5.	Naphthalene, 1,8-dimethyl-	156 C12H12

Sample file: >I3307 Spectrum #: 1328
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	571584	21699	NBS54K	93	15	0	0	100	4	72	96
2.	94*	573988	21692	NBS54K	80	33	0	0	77	12	64	94
3.	93*	575371	21697	NBS54K	83	25	0	0	84	22	53	95
4.	92*	581408	21691	NBS54K	76	30	0	0	78	24	53	93
5.	89*	569415	21694	NBS54K	71	39	0	0	72	24	47	89

Peak#: 52 Area: 184064. Est Conc: 21. Date: 02/19/93 15:43 Inst: I

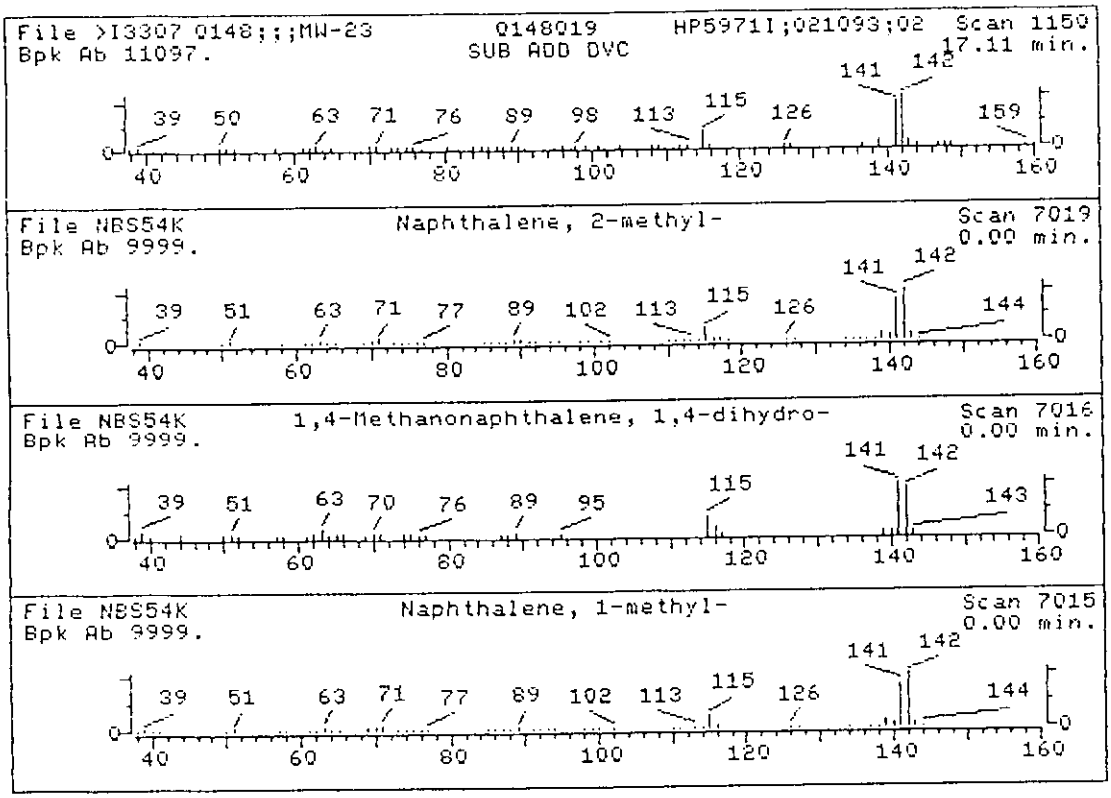


.	Naphthalene, 2-methyl-	142 C11H10
.	1,4-Methanonaphthalene, 1,4-dihydro-	142 C11H10
3.	Naphthalene, 1-methyl-	142 C11H10
4.	1H-Indene, 1-ethylidene-	142 C11H10
5.	Benzeneacetonitrile, 2-cyano-	142 C9H6N2

Sample file: >I3307 Spectrum #: 1150
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78*	91576	19096	NBS54K	47	51	3	0	100	5	55	14
2.	78*	4453901	19093	NBS54K	39	63	2	0	82	3	55	14
3.	78*	90120	19092	NBS54K	53	47	3	0	100	5	55	17
4.	56*	2471832	19094	NBS54K	53	47	2	0	69	21	22	28
5.	32*	3759282	19087	NBS54K	45	49	2	0	85	42	12	23

Peak#: 40 Area: 128812. Est Conc: 16. Date: 02/19/93 15:43 Inst: I

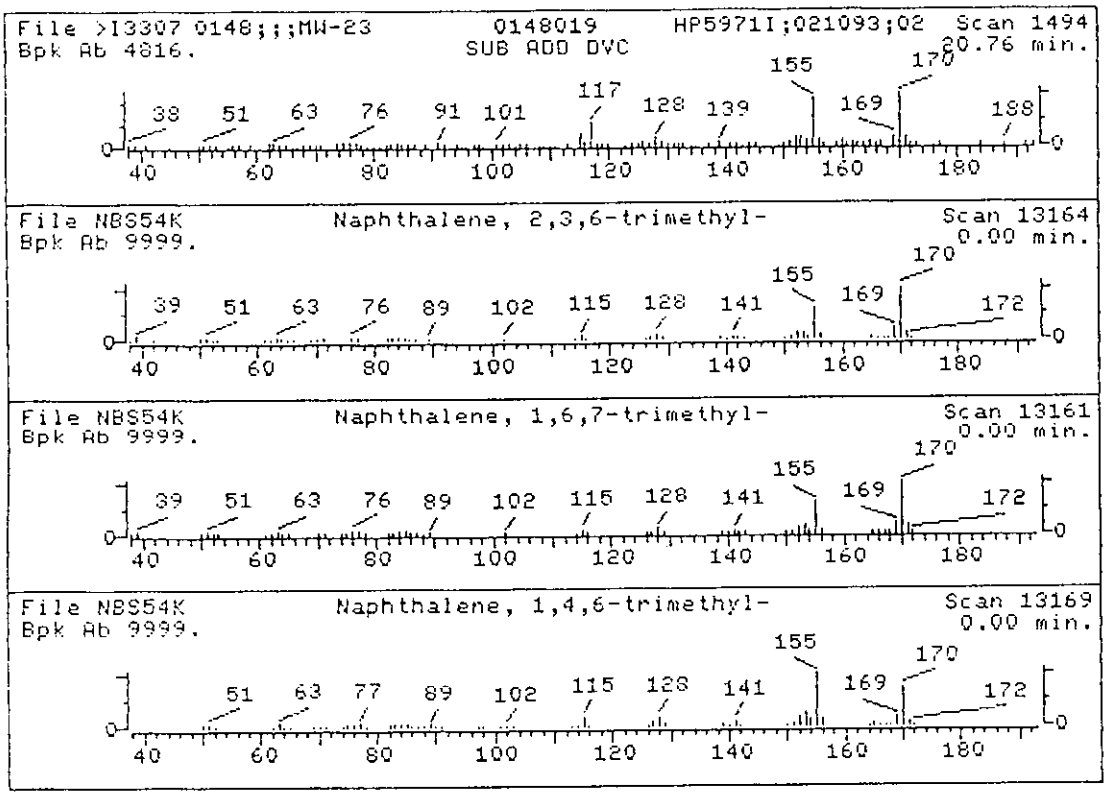


.	Naphthalene, 2,3,6-trimethyl-	170	C13H14
..	Naphthalene, 1,6,7-trimethyl-	170	C13H14
3.	Naphthalene, 1,4,6-trimethyl-	170	C13H14
4.	Naphthalene, 1,4,5-trimethyl-	170	C13H14
5.	1H,3H-Thieno[3,4-c]thiophene, 4,6-dimethyl-	170	C8H10S2

Sample file: >I3307 Spectrum #: 1494
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	85*	829265	24255	NBS54K	71	38	0	0	69	39	37	89
2.	85*	2245387	24253	NBS54K	70	38	0	0	71	40	37	89
3.	69*	2131422	24259	NBS54K	75	44	1	0	66	40	28	73
4.	49*	2131411	24258	NBS54K	70	48	0	0	54	60	18	89
5.	42*	15441540	24208	NBS54K	29	103	3	0	100	22	17	13

Peak#: 62 Area: 116537. Est Conc: 13. Date: 02/19/93 15:43 Inst: I

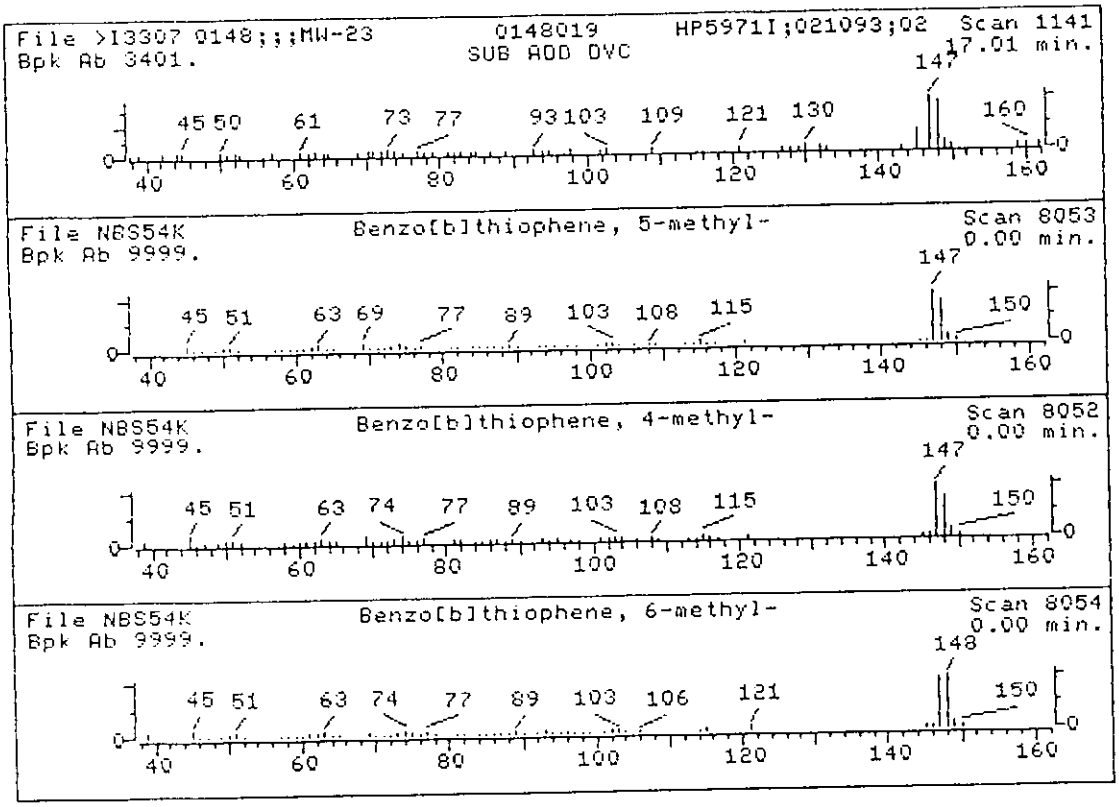


.	Benzo[b]thiophene, 5-methyl-	148 C9H8S
_.	Benzo[b]thiophene, 4-methyl-	148 C9H8S
3.	Benzo[b]thiophene, 6-methyl-	148 C9H8S
4.	2-Propenoic acid, 3-phenyl-	148 C9H8O2
5.	Pyridine, 4-(1-pyrrolidinyl)-	148 C9H12N2

Sample file: >I3307 Spectrum #: 1141
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	66*	14315141	20107	NBS54K	62	36	2	0	100	18	31	41
2.	63*	14315118	20106	NBS54K	57	41	2	0	100	18	30	34
3.	63*	16587476	20108	NBS54K	56	42	2	0	92	18	30	33
4.	52*	621829	20092	NBS54K	30	81	3	0	100	20	20	13
5.	42*	2456817	20112	NBS54K	25	86	3	0	100	22	17	13

Peak#: 39 Area: 96136. Est Conc: 12. Date: 02/19/93 15:43 Inst: I

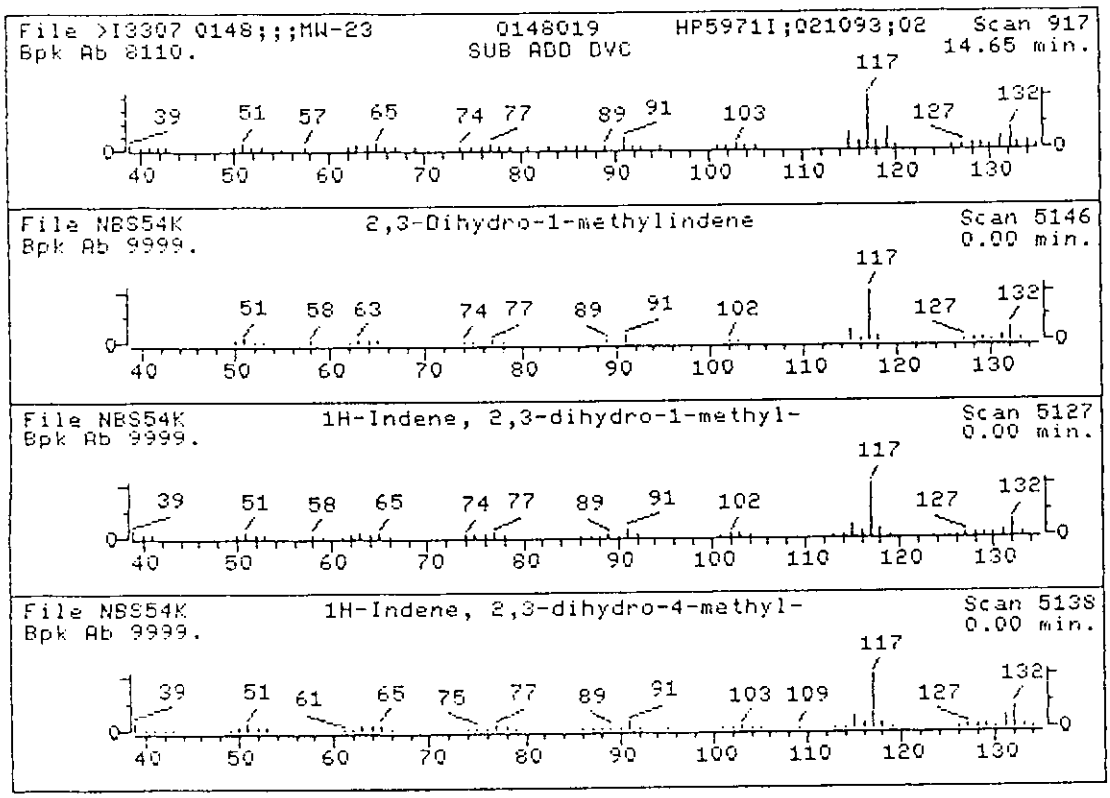


	2,3-Dihydro-1-methylindene	132 C10H12
2.	1H-Indene, 2,3-dihydro-1-methyl-	132 C10H12
3.	1H-Indene, 2,3-dihydro-4-methyl-	132 C10H12
4.	1H-Indene, 2,3-dihydro-5-methyl-	132 C10H12
5.	Benzene, 2-ethenyl-1,4-dimethyl-	132 C10H12

Sample file: >I3307 Spectrum #: 917
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	91*	27133933	13904	NBS54K	73	22	0	0	100	23	53	92
2.	86*	767588	13901	NBS54K	69	28	0	0	100	23	47	86
3.	82*	824226	16768	NBS54K	66	41	0	0	81	25	41	78
4.	82*	874351	16763	NBS54K	65	41	0	0	72	23	41	78
5.	66*	2039896	16758	NBS54K	75	32	1	0	52	41	24	73

Peak#: 21 Area: 96929. Est Conc: 12. Date: 02/19/93 15:43 Inst: I

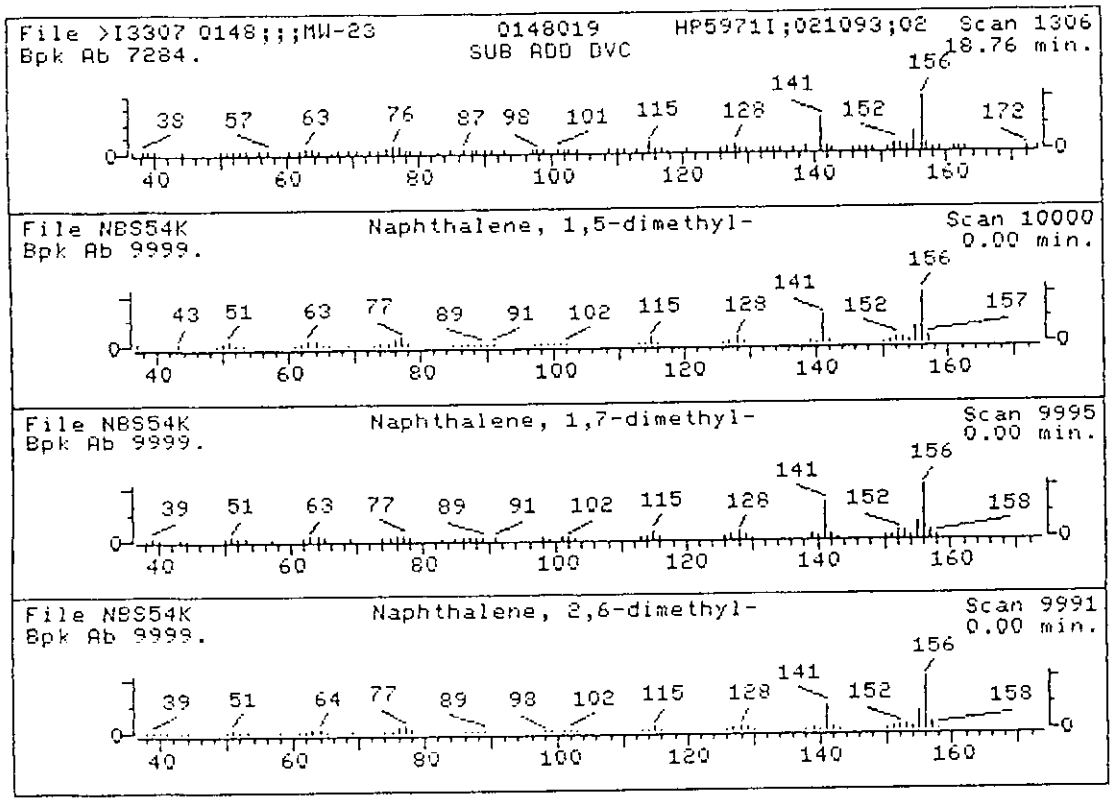


	Naphthalene, 1,5-dimethyl-	156 C12H12
2.	Naphthalene, 1,7-dimethyl-	156 C12H12
3.	Naphthalene, 2,6-dimethyl-	156 C12H12
4.	Naphthalene, 1,6-dimethyl-	156 C12H12
5.	Naphthalene, 1,8-dimethyl-	156 C12H12

Sample file: >I3307 Spectrum #: 1306
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	97*	571619	21702	NBS54K	102	7	0	0	83	6	68	97
2.	97*	575371	21697	NBS54K	100	8	0	0	87	6	68	97
3.	97*	581420	21693	NBS54K	98	7	0	0	90	6	68	97
4.	97*	575439	21701	NBS54K	99	9	0	0	87	6	68	97
5.	96*	569415	21694	NBS54K	94	16	0	0	80	6	68	96

Peak#: 51 Area: 105493. Est Conc: 12. Date: 02/19/93 15:43 Inst: I

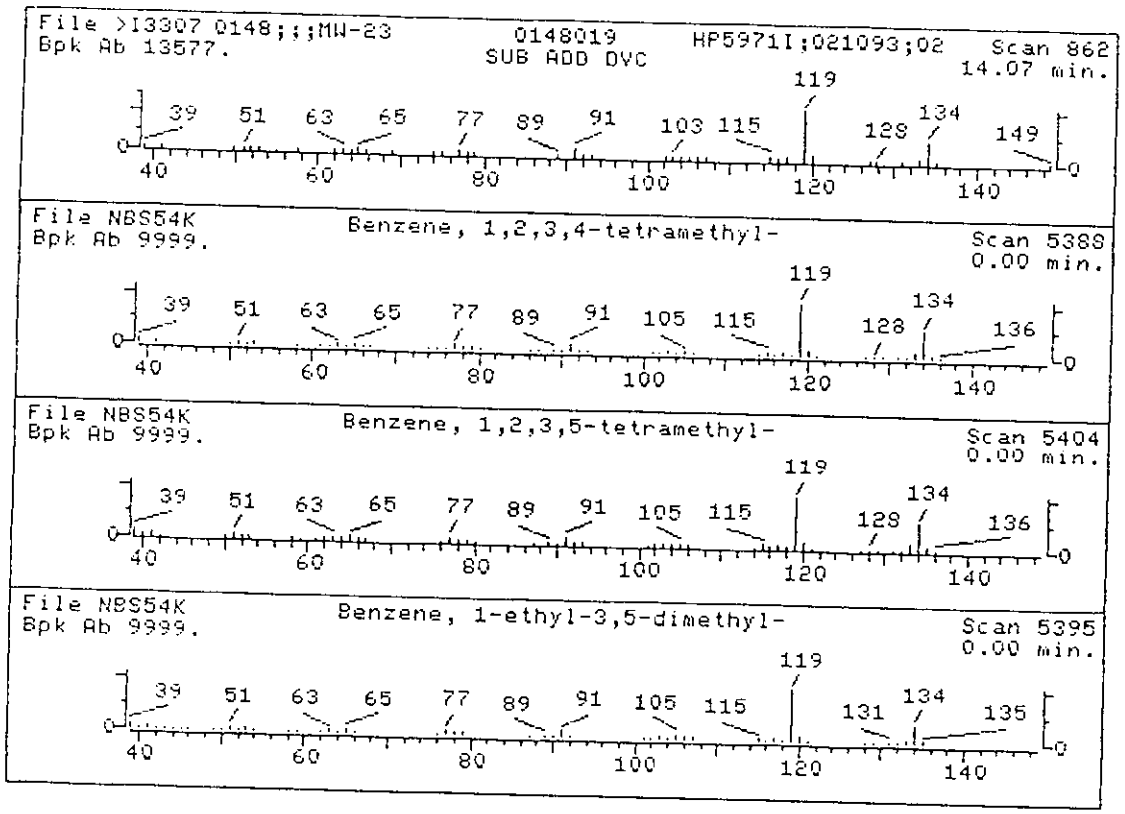


	Benzene, 1,2,3,4-tetramethyl-	134 C10H14
2.	Benzene, 1,2,3,5-tetramethyl-	134 C10H14
3.	Benzene, 1-ethyl-3,5-dimethyl-	134 C10H14
4.	Benzene, 2-ethyl-1,4-dimethyl-	134 C10H14
5.	Benzene, 1,2,4,5-tetramethyl-	134 C10H14

Sample file: >I3307 Spectrum #: 862
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	89*	488233	17133	NBS54K	75	19	1	0	77	4	66	76
2.	89*	527537	17143	NBS54K	64	29	1	0	72	4	66	63
3.	87*	934747	14246	NBS54K	65	30	2	0	100	4	63	49
4.	83*	1758889	14249	NBS54K	65	27	2	0	100	6	54	53
5.	81*	95932	17144	NBS54K	68	34	2	0	77	7	53	49

Peak#: 18 Area: 86226. Est Conc: 11. Date: 02/19/93 15:43 Inst: I

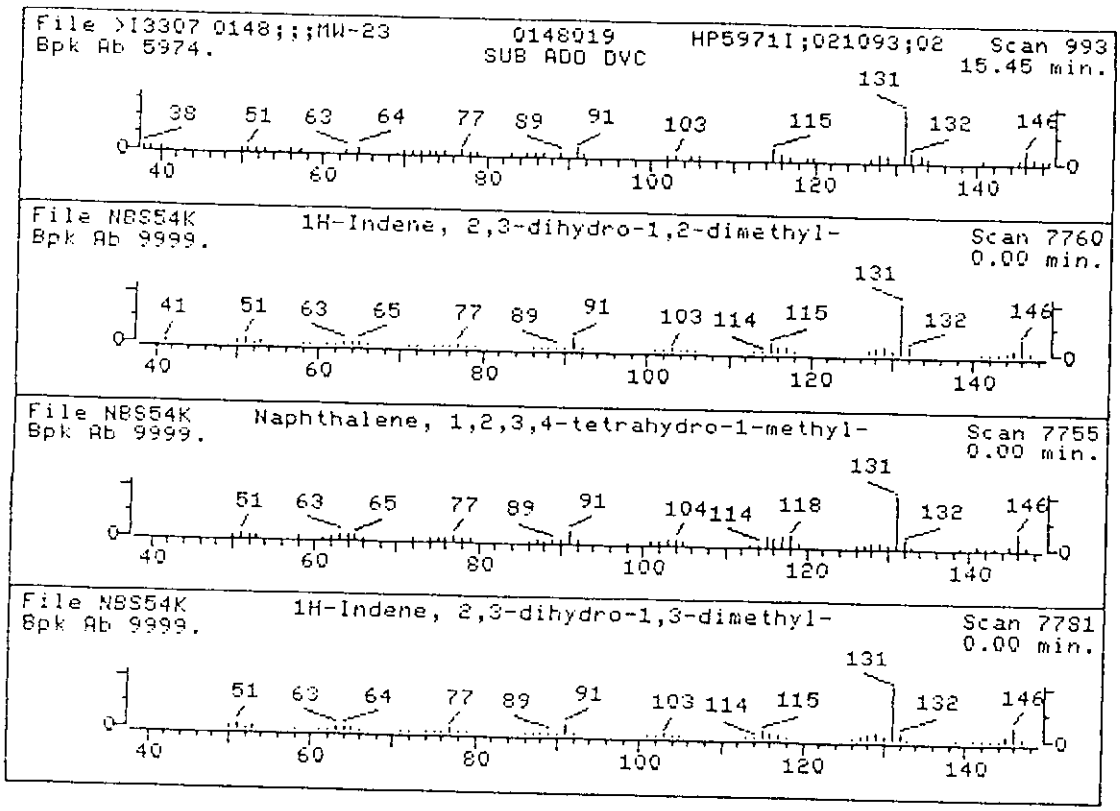


	1H-Indene, 2,3-dihydro-1,2-dimethyl-	146 C11H14
2.	Naphthalene, 1,2,3,4-tetrahydro-1-methyl-	146 C11H14
3.	1H-Indene, 2,3-dihydro-1,3-dimethyl-	146 C11H14
4.	1H-Indene, 2,3-dihydro-1,6-dimethyl-	146 C11H14
5.	Benzene, (1,1-dimethyl-2-propenyl)-	146 C11H14

Sample file: >I3307 Spectrum #: 993
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83*	17057828	16602	NBS54K	77	27	2	0	77	8	54	59
2.	83*	1559815	16600	NBS54K	74	30	2	0	76	8	54	56
3.	79*	4175535	16606	NBS54K	58	43	2	0	86	8	48	35
4.	79*	17059482	16605	NBS54K	56	43	2	0	85	8	48	33
5.	71*	18321363	16607	NBS54K	56	46	2	0	73	14	38	33

Peak#: 28 Area: 89328. Est Conc: 11. Date: 02/19/93 15:43 Inst: I

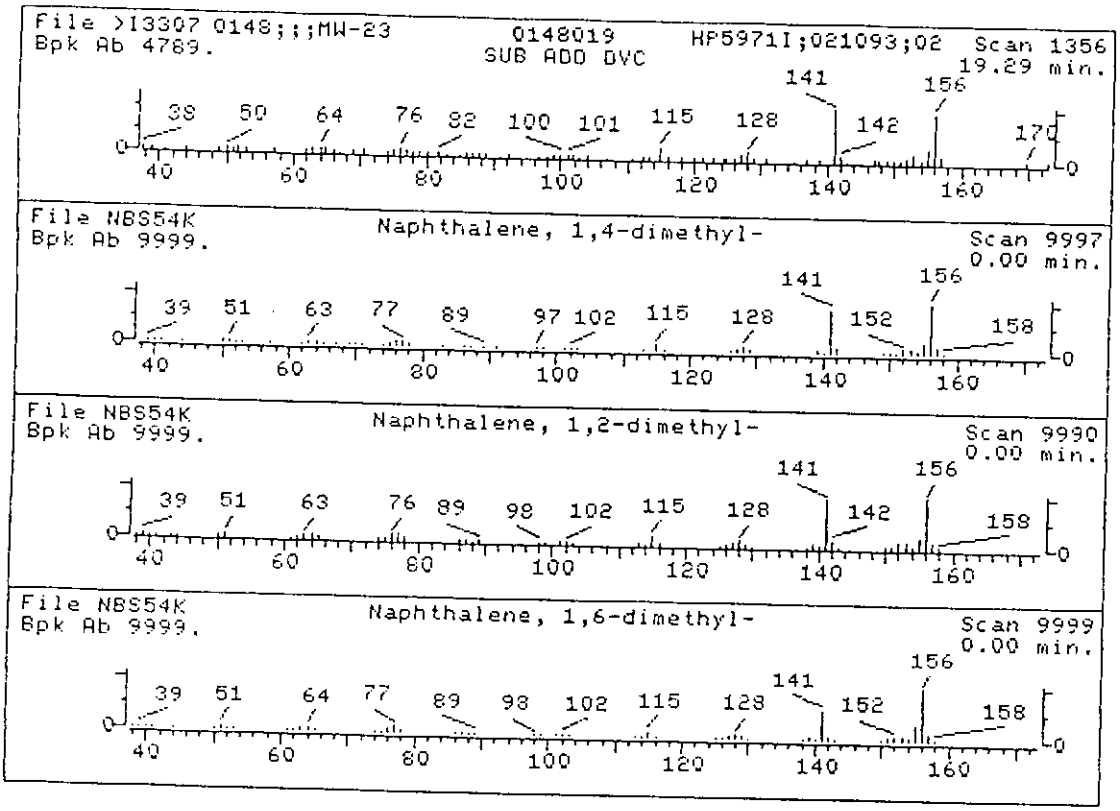


.	Naphthalene, 1,4-dimethyl-	156 C12H12
.	Naphthalene, 1,2-dimethyl-	156 C12H12
3.	Naphthalene, 1,6-dimethyl-	156 C12H12
4.	Naphthalene, 1,8-dimethyl-	156 C12H12
5.	Naphthalene, 2,6-dimethyl-	156 C12H12

Sample file: >I3307 Spectrum #: 1356
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	571584	21699	NBS54K	87	21	1	0	84	4	68	86
2.	86*	573988	21692	NBS54K	80	33	1	0	74	10	59	77
3.	82*	575439	21701	NBS54K	69	39	0	0	66	36	37	86
4.	80*	569415	21694	NBS54K	66	44	0	0	63	30	37	78
5.	79*	581420	21693	NBS54K	68	37	0	0	66	38	37	83

Peak#: 53 Area: 90670. Est Conc: 10. Date: 02/19/93 15:43 Inst: I

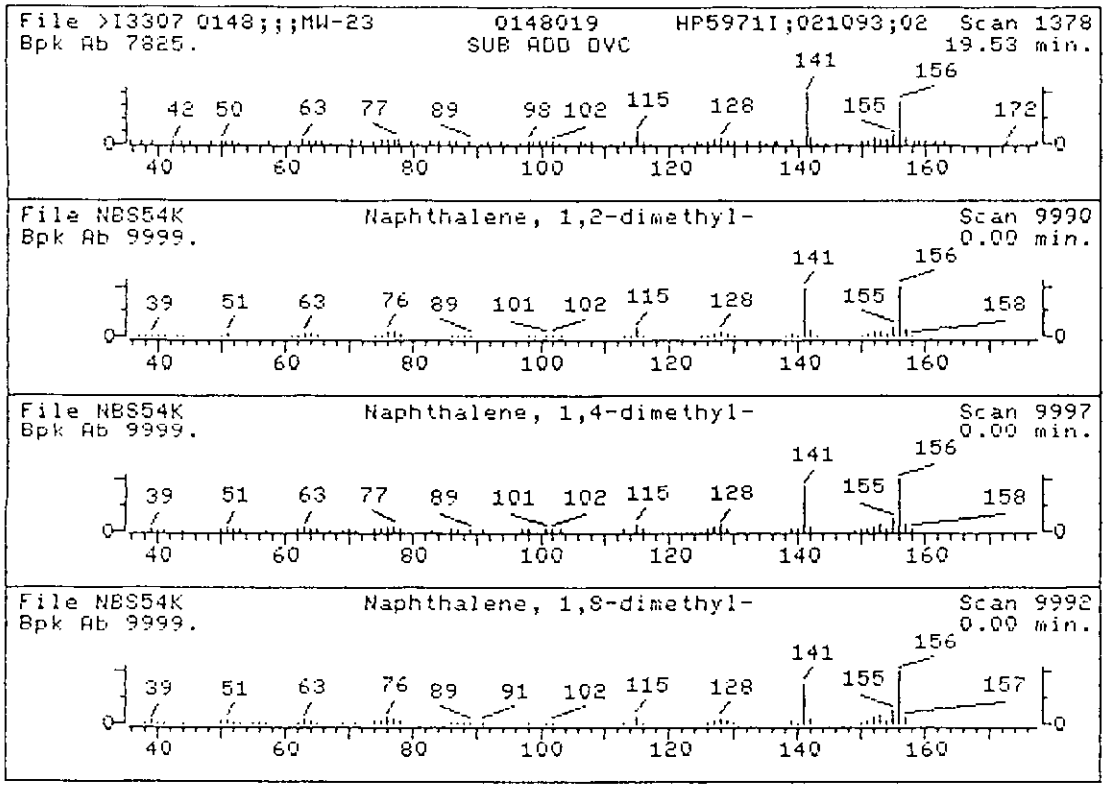


	Naphthalene, 1,2-dimethyl-	156	C12H12
2.	Naphthalene, 1,4-dimethyl-	156	C12H12
3.	Naphthalene, 1,8-dimethyl-	156	C12H12
4.	Naphthalene, 2,3-dimethyl-	156	C12H12
5.	Naphthalene, 1,6-dimethyl-	156	C12H12

Sample file: >I3307 Spectrum #: 1378
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	92*	573988	21692	NBS54K	78	35	0	0	69	23	53	93
2.	89*	571584	21699	NBS54K	84	24	1	0	79	9	62	80
3.	79*	569415	21694	NBS54K	64	46	0	0	54	27	37	77
4.	78*	581408	21691	NBS54K	63	43	0	0	56	27	37	76
5.	74*	575439	21701	NBS54K	73	35	1	0	74	29	37	72

Peak#: 54 Area: 86278. Est Conc: 10. Date: 02/19/93 15:43 Inst: I

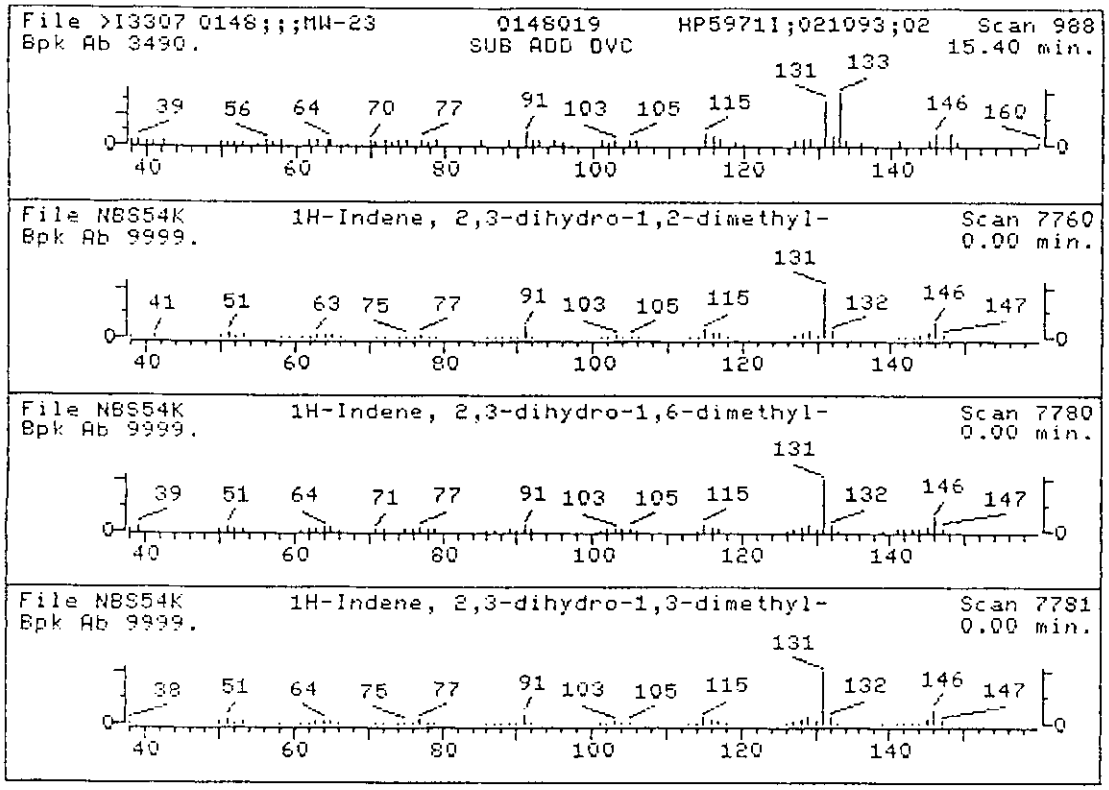


.	1H-Indene, 2,3-dihydro-1,2-dimethyl-	146	C11H14
..	1H-Indene, 2,3-dihydro-1,6-dimethyl-	146	C11H14
3.	1H-Indene, 2,3-dihydro-1,3-dimethyl-	146	C11H14
4.	Benzene, 1-(1,1-dimethylethyl)-4-methyl-	148	C11H16
5.	Benzene, 1,4-dimethyl-2-(1-methylethyl)-	148	C11H16

Sample file: >I3307 Spectrum #: 988
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	40*	17057828	16602	NBS54K	63	41	2	0	69	49	12	41
2.	35*	17059482	16605	NBS54K	56	43	2	0	77	47	11	33
3.	35*	4175535	16606	NBS54K	55	46	2	0	77	49	11	32
4.	25*	98511	16978	NBS54K	43	55	2	0	80	49	7	18
5.	24*	4132723	16971	NBS54K	40	54	1	0	79	53	7	23

Peak#: 27 Area: 70789. Est Conc: 9. Date: 02/19/93 15:43 Inst: I

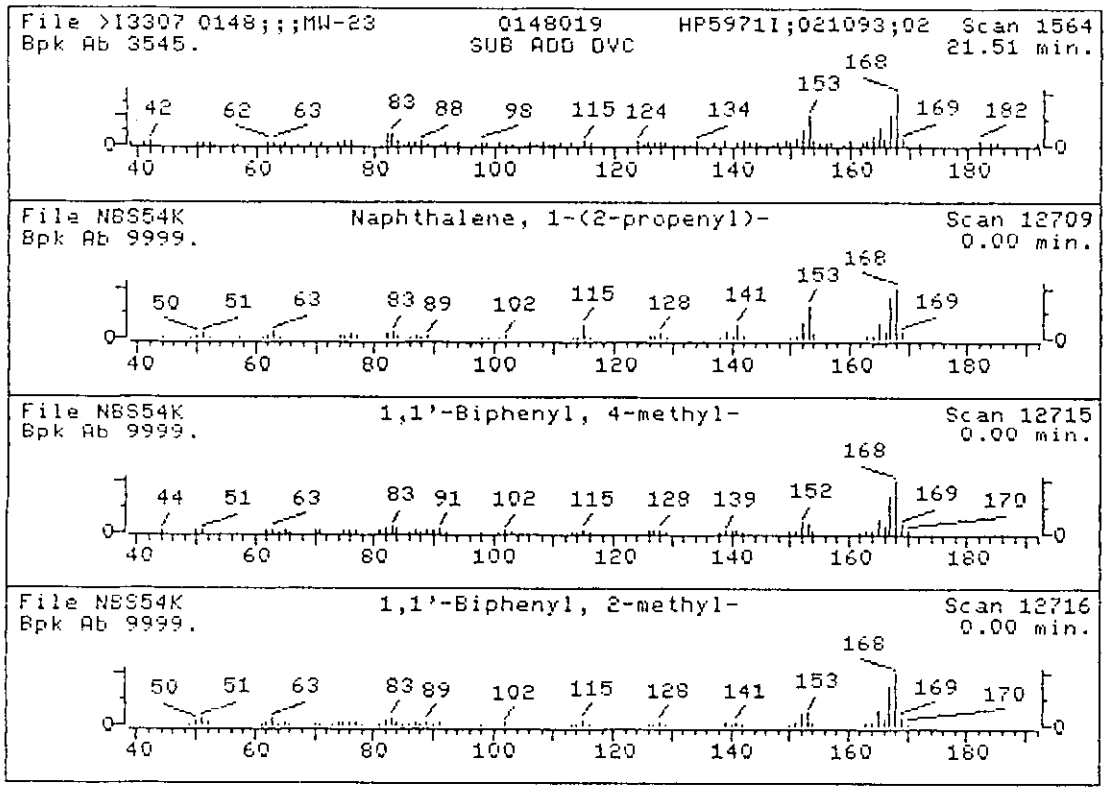


.	Naphthalene, 1-(2-propenyl)-	168	C13H12
_.	1,1'-Biphenyl, 4-methyl-	168	C13H12
3.	1,1'-Biphenyl, 2-methyl-	168	C13H12
4.	1,1'-Biphenyl, 3-methyl-	168	C13H12
5.	Benzene, 1,1'-methylenebis-	168	C13H12

Sample file: >13307 Spectrum #: 1564
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	2489863	23959	NBS54K	59	62	2	0	72	11	38	36
2.	62*	644086	23965	NBS54K	44	57	0	0	80	28	25	49
3.	48*	643583	23966	NBS54K	47	63	2	0	74	24	17	19
4.	46*	643936	23961	NBS54K	52	52	1	0	81	37	17	35
5.	43*	101815	23963	NBS54K	39	62	1	0	80	30	19	21

Peak#: 65 Area: 82103. Est Conc: 9. Date: 02/19/93 15:43 Inst: I

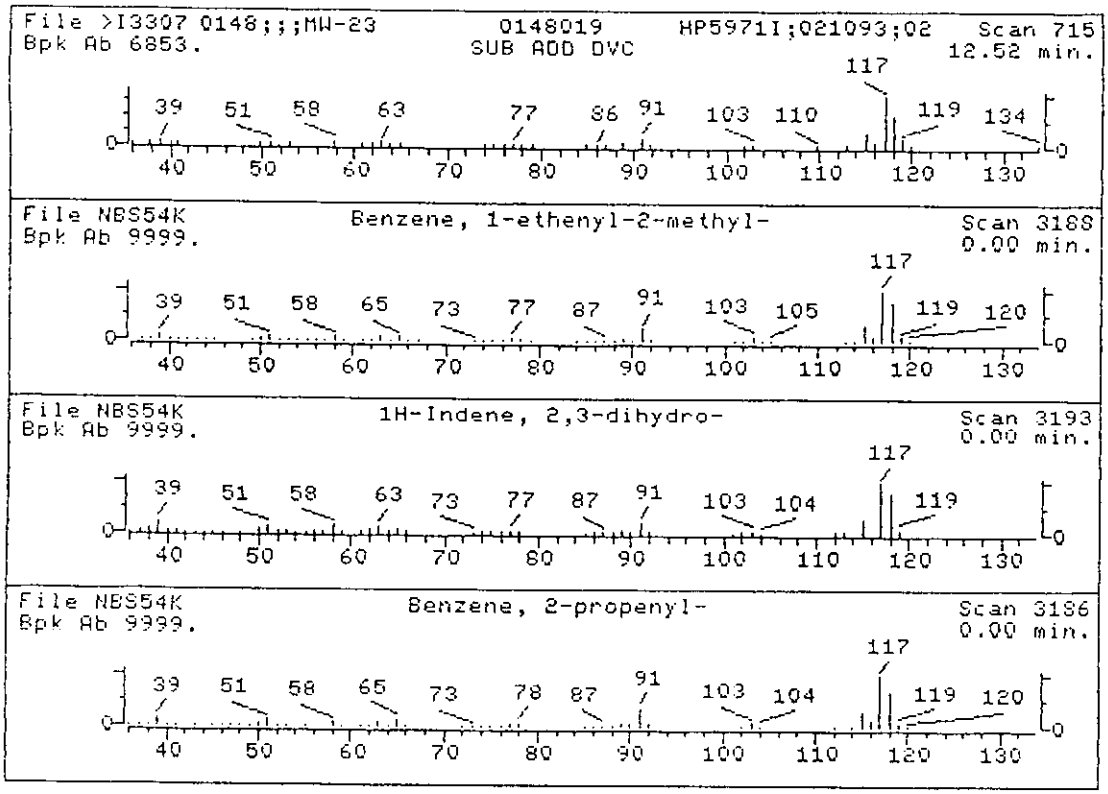


`.	Benzene, 1-ethenyl-2-methyl-	118	C9H10
.	1H-Indene, 2,3-dihydro-	118	C9H10
3.	Benzene, 2-propenyl-	118	C9H10
4.	Benzene, 1-ethenyl-3-methyl-	118	C9H10
5.	Benzene, ethenylmethyl-	118	C9H10

Sample file: >I3307 Spectrum #: 715
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	611154	14047	NBS54K	52	41	2	0	69	14	38	34
2.	60*	496117	14051	NBS54K	41	57	2	0	79	11	30	17
3.	60*	300572	14045	NBS54K	34	63	3	0	91	14	30	13
4.	32*	100801	14050	NBS54K	41	55	2	0	62	39	10	18
5.	31*	25013154	14049	NBS54K	41	56	2	0	62	39	10	17

Peak#: 10 Area: 54179. Est Conc: 9. Date: 02/19/93 15:43 Inst: I

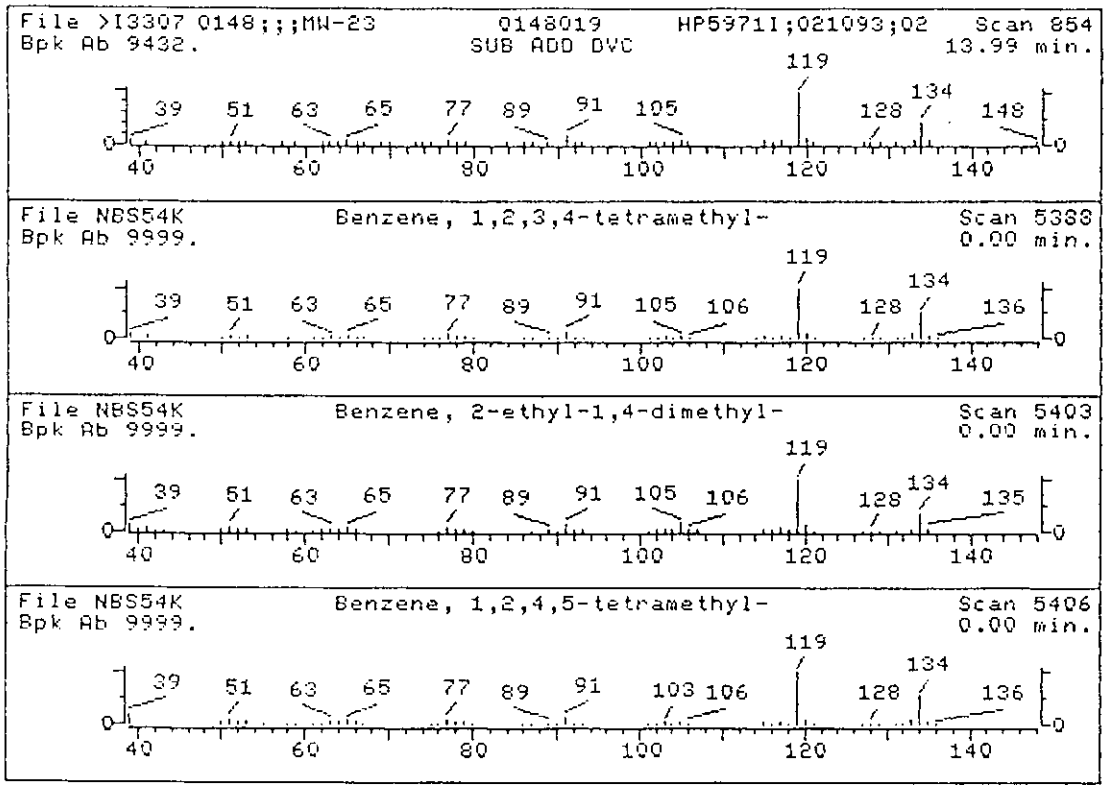


.	Benzene, 1,2,3,4-tetramethyl-	134	C10H14
.	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14
3.	Benzene, 1,2,4,5-tetramethyl-	134	C10H14
4.	Benzene, 1,2,3,5-tetramethyl-	134	C10H14
5.	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14

Sample file: >I3307 Spectrum #: 854
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	488233	17133	NBS54K	72	22	0	0	83	7	62	89
2.	84*	1758889	14249	NBS54K	70	22	1	0	100	9	55	69
3.	84*	95932	17144	NBS54K	68	34	1	0	73	6	55	66
4.	84*	527537	17143	NBS54K	54	39	0	0	76	9	55	66
5.	81*	934747	14246	NBS54K	66	29	2	0	100	9	53	49

Peak#: 17 Area: 65517. Est Conc: 8. Date: 02/19/93 15:43 Inst: I

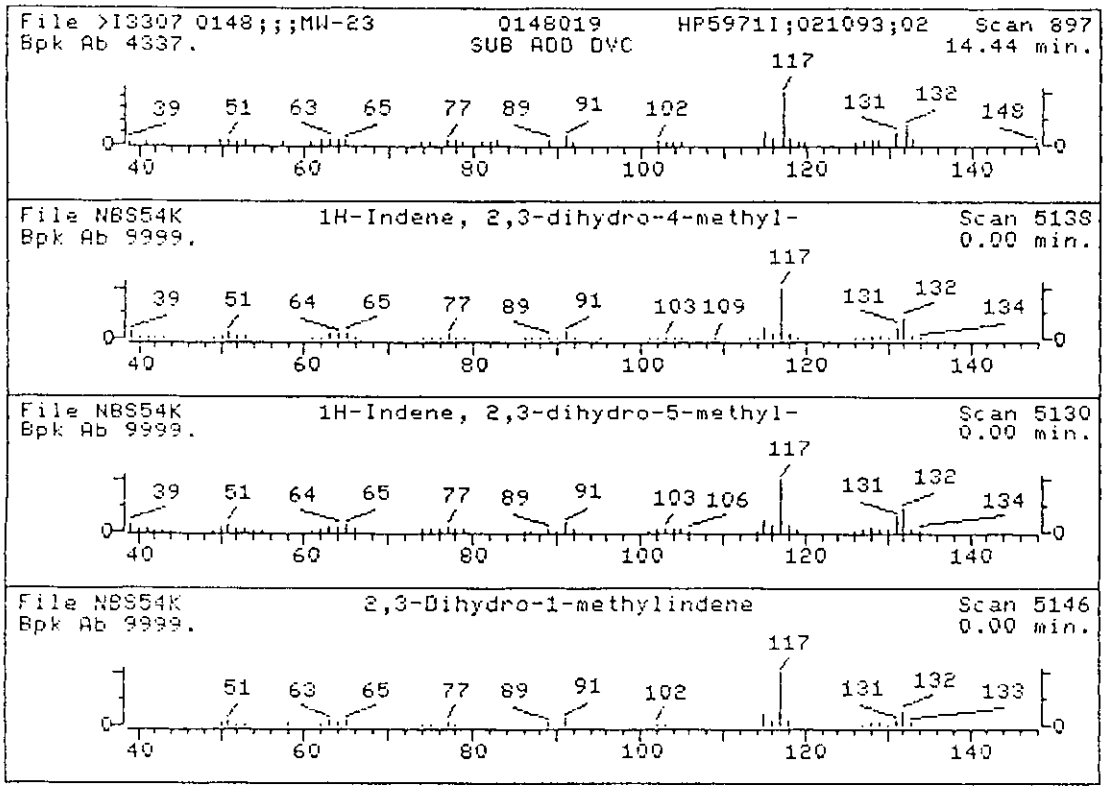


	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12
2.	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12
3.	2,3-Dihydro-1-methylindene	132	C10H12
4.	1H-Indene, 2,3-dihydro-1-methyl-	132	C10H12
5.	Benzene, 1-ethenyl-4-ethyl-	132	C10H12

Sample file: >I3307 Spectrum #: 897
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	81*	824226	16768	NBS54K	65	42	0	0	68	17	45	78
2.	70*	874351	16763	NBS54K	59	47	1	0	68	16	32	53
3.	66*	27133933	13904	NBS54K	58	37	1	0	95	18	31	49
4.	66*	767588	13901	NBS54K	58	39	1	0	93	18	31	49
5.	55*	3454077	16765	NBS54K	35	58	0	0	76	27	24	35

Peak#: 19 Area: 64308. Est Conc: 8. Date: 02/19/93 15:43 Inst: I

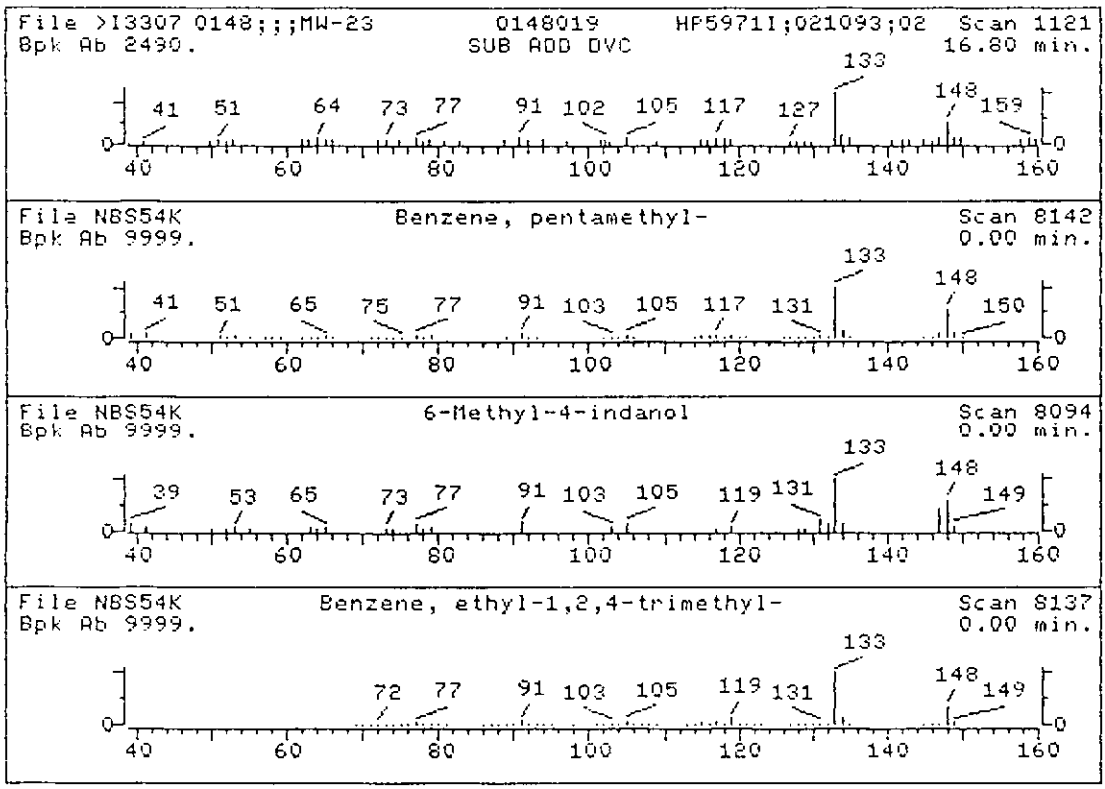


	Benzene, pentamethyl-	148	C11H16
_.	6-Methyl-4-indanol	148	C10H12O
3.	Benzene, ethyl-1,2,4-trimethyl-	148	C11H16
4.	Benzene, 1,3-diethyl-5-methyl-	148	C11H16
5.	Benzene, (1,1-dimethylethyl)methyl-	148	C11H16

Sample file: >I3307 Spectrum #: 1121
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	62*	700129	20151	NBS54K	41	50	0	0	74	29	25	44
2.	51*	20294320	20133	NBS54K	63	45	3	0	71	29	24	31
3.	42*	54120626	16976	NBS54K	35	55	1	0	100	28	14	19
4.	42*	2050240	20150	NBS54K	30	80	3	0	100	24	17	13
5.	41*	27138212	16975	NBS54K	37	53	2	0	100	29	14	18

Peak#: 37 Area: 58000. Est Conc: 7. Date: 02/19/93 15:43 Inst: I

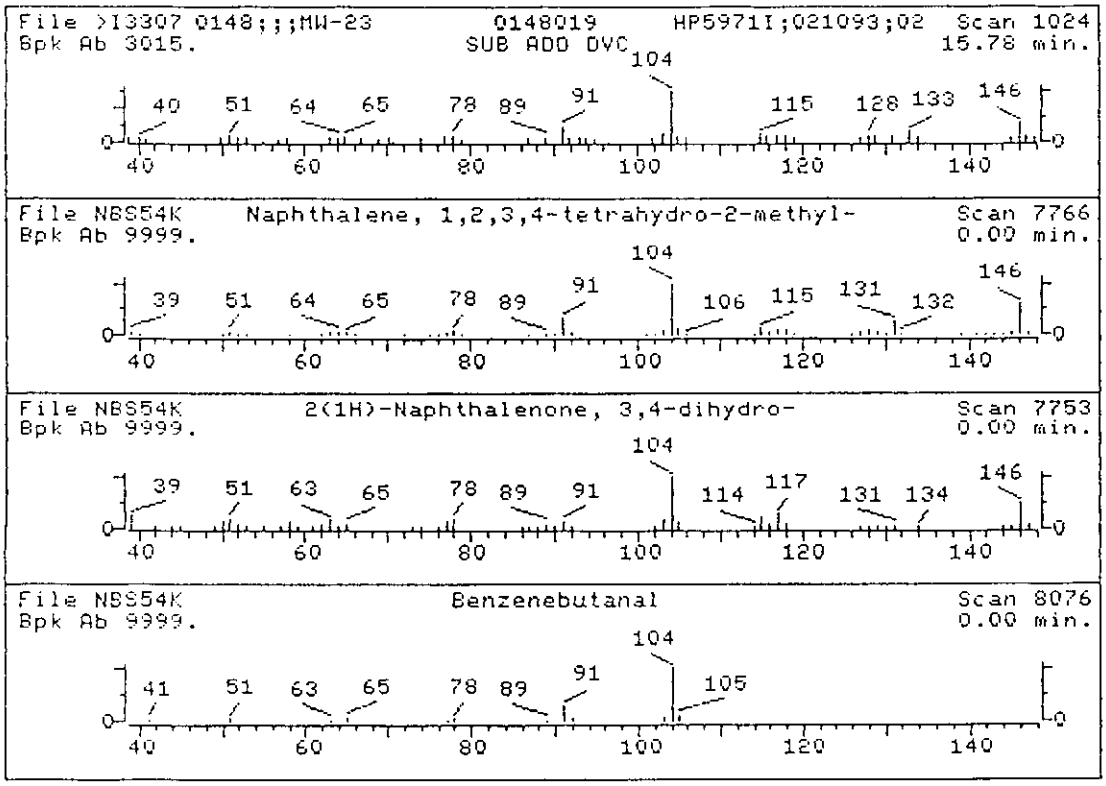


.	Naphthalene, 1,2,3,4-tetrahydro-2-methyl-	146	C11H14
2.	2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O
3.	Benzenebutanal	148	C10H12O
4.	Benzene, 1,1'-(1,2-cyclobutanediyl)bis-, cis-	208	C16H16

Sample file: >I3307 Spectrum #: 1024
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	42	3877198	19776	NBS54K	71	32	3	0	100	30	14	19
2.	31*	530938	19771	NBS54K	37	67	2	0	73	33	12	14
3.	24*	18328115	11396	NBS54K	38	30	1	0	95	52	7	21
4.	20	7694306	11459	NBS54K	26	60	0	0	100	55	5	13

Peak#: 30 Area: 58346. Est Conc: 7. Date: 02/19/93 15:43 Inst: I

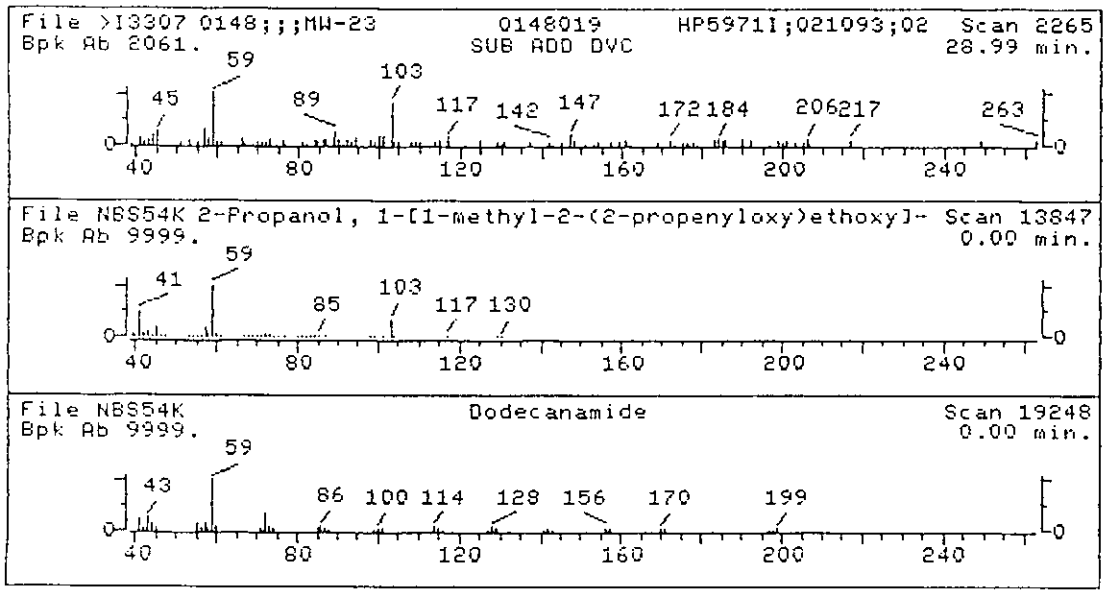


.. 2-Propanol, 1-[1-methyl-2-(2-propenyloxy)ethoxy]- 174 C9H18O3
2. Dodecanamide 199 C12H25NO

Sample file: >I3307 ectrum #: 2265
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15	55956257	2015	NBS54K	40	55	1	0	100	58	3	12
2.	11*	1120167	2047	NBS54K	27	83	3	0	100	65	2	13

Peak#: 77 Area: 69476. Est Conc: 6. Date: 02/19/93 15:43 Inst: I

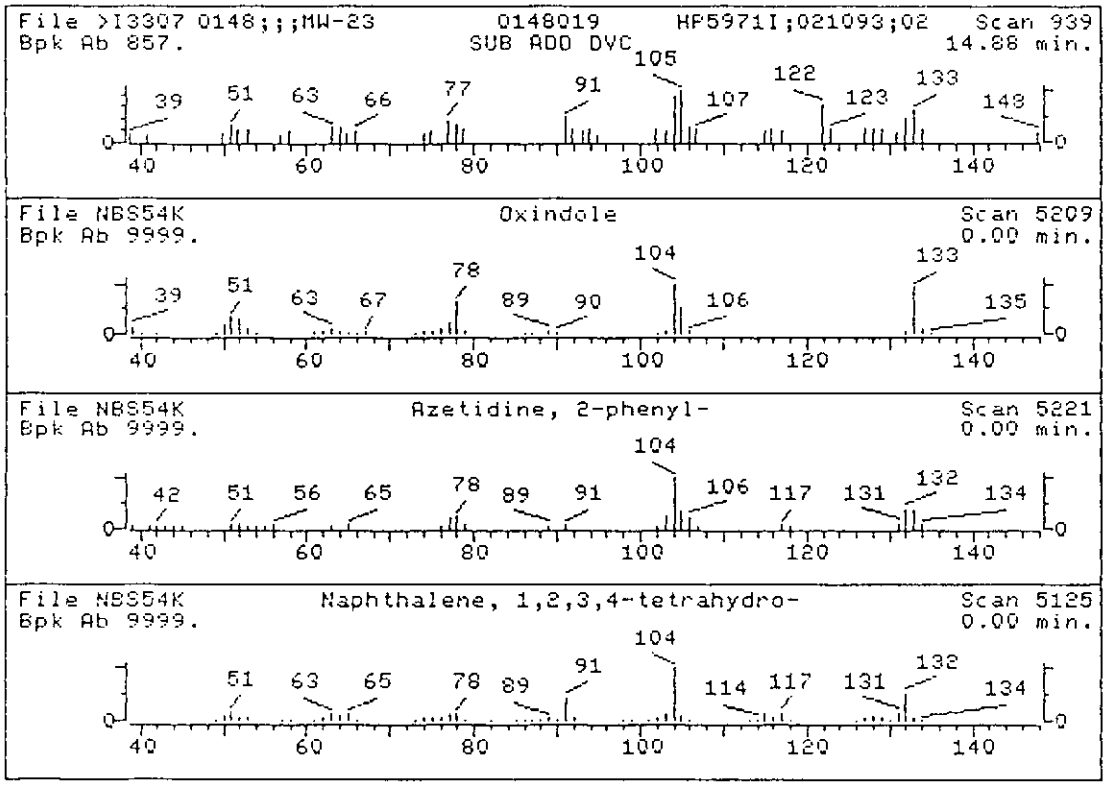


2.	Oxindole	133 C8H7NO
3.	Azetidine, 2-phenyl-	133 C9H11N
3.	Naphthalene, 1,2,3,4-tetrahydro-	132 C10H12
4.	Benzene, 1-isocyanato-2-methyl-	133 C8H7NO
5.	2H-Inden-2-one, 1,3-dihydro-	132 C9H8O

Sample file: >I3307 Spectrum #: 939
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	59483	16954	NBS54K	45	66	3	0	66	53	5	13
2.	20*	22610180	16775	NBS54K	27	86	2	0	86	54	5	14
3.	15*	119642	16759	NBS54K	33	74	1	0	89	59	3	18
4.	15*	614686	16951	NBS54K	28	83	2	0	64	57	3	14
5.	15*	615134	11385	NBS54K	25	83	3	0	89	59	3	13

Peak#: 23 Area: 47386. Est Conc: 6. Date: 02/19/93 15:43 Inst: I



0661

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-~~37~~ 47

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3308.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

0662

EPA SAMPLE NO.

MW-37 47

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 CMC 2/23/93

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3308.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.8	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

0663
EPA SAMPLE NO.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-37 47

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3308.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: ~~0~~ 12

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	26.86	13	J
2.			29.04	13	
3.			31.93	12	
4.			23.32	6	
5.			36.23	6	
6.			32.34	5	
7.		ALDOL CONDENSATION PRODUCT	8.18	5	JAB
8.		UNKNOWN	33.75	4	J
9.			29.27	4	
10.			8.57	3	JB
11.			26.55	3	J
12.			19.79	2	
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
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22.					
23.					
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29.					
30.					

QUANT REPORT Page 1

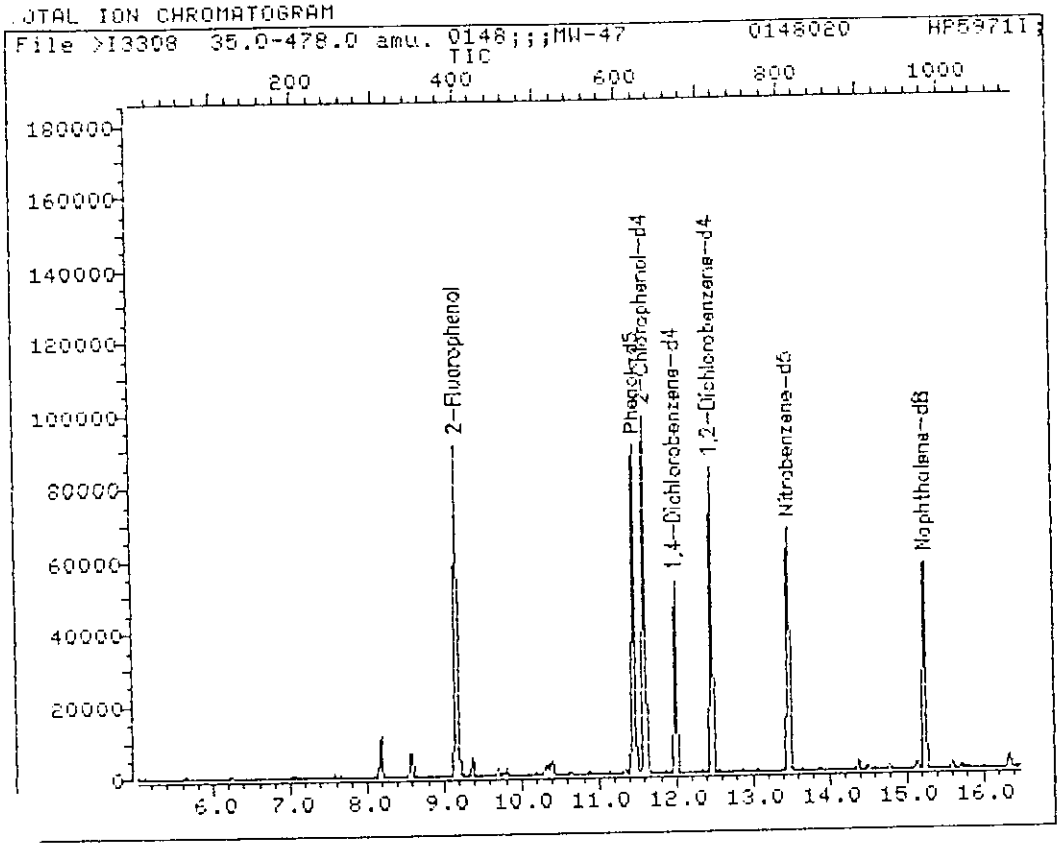
Operator ID: USER1 Quant Rev: 7 Quant Time: 930222 13:05
Output File: ^I3308::A6 Injected at: 930219 16:44
Data File: >I3308::A2 Dilution Factor: .51000
Name: 0148;;;MW-47 Instrument ID: **MSD
Misc: 0148020 HP5971I;021093;021193;LLW;1;;;I02

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.00	151.8	18520	40.00	ug	95
2)	2-Chlorophenol-d4	11.61	132.0	72100	62.15	ug	81
3)	2-Fluorophenol	9.17	111.8	70641	59.58	ug	74
4)	Phenol-d5	11.47	98.8	104688	64.62	ug	65
10)	1,2-Dichlorobenzene-d4	12.47	152.0	33237	43.82	ug	96
17)	*Naphthalene-d8	15.25	135.9	69292	40.00	ug	98
18)	Nitrobenzene-d5	13.48	81.8	57243	42.09	ug	71
31)	*Acenaphthene-d10	19.90	163.9	40202	40.00	ug	96
)	2-Fluorobiphenyl	18.13	171.8	97696	40.26	ug	98
51)	2,4,6-Tribromophenol	22.04	329.6	39564	68.79	ug	93
52)	*Phenanthrene-d10	23.79	187.9	73983	40.00	ug	98
63)	*Chrysene-d12	31.06	240.0	60586	40.00	ug	96
65)	Terphenyl-d14	28.04	244.0	89775	34.28	ug	98
~~66)~~	~~Butylbenzylphthalate~~	~~29.38~~	~~148.8~~	~~993~~	~~.461~~	~~ug~~	~~39~~
70)	bis(2-Ethylhexyl)phthalate	31.19	148.8	2184	.819	ug	89
71)	*Perylene-d12	37.73	264.0	62457	40.00	ug	96
~~72)~~	~~Di-n-octylphthalate~~	~~33.76~~	~~148.9~~	~~3228~~	~~.598~~	~~ug~~	~~61~~

* Compound is ISTD

cmc 2/28/93



Data File: >I3308
Name: 0148;;;MW-47
Misc: 0148020 HP5971I;021093;021193;LLW;1;;;I02

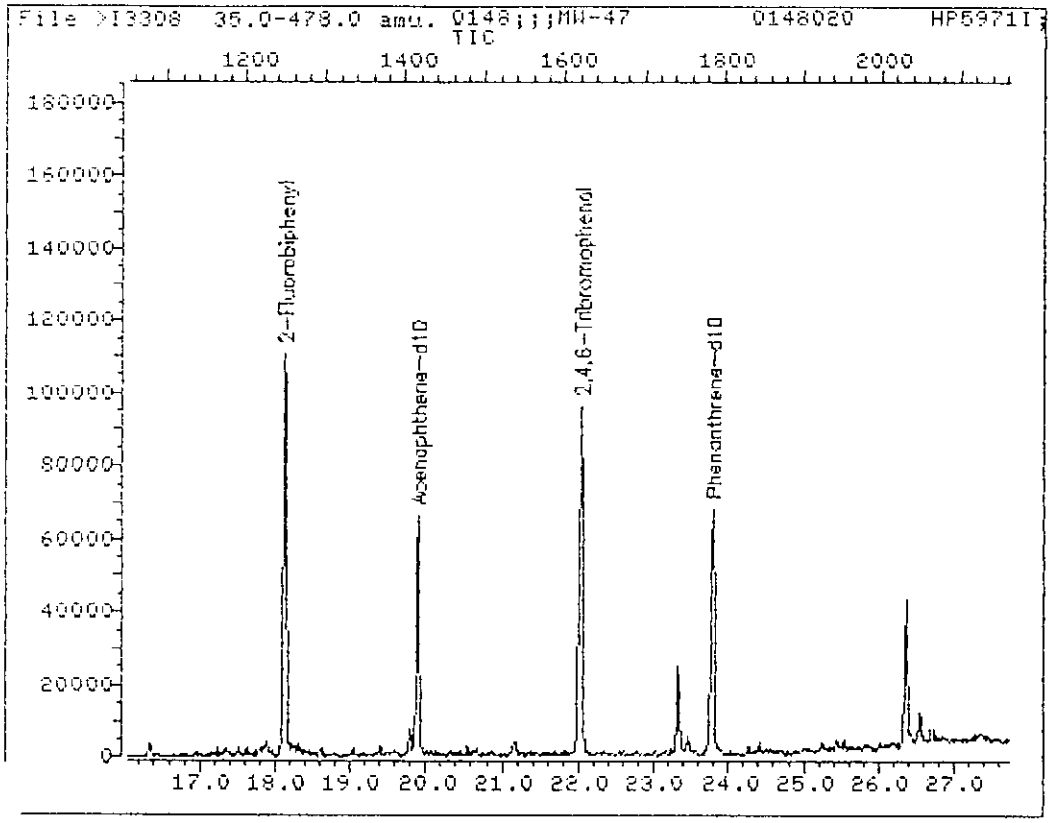
Quant Output File: ^I3308::A6
Instrument ID: **MSD

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 13:05
Injected at: 930219 16:44

TOTAL ION CHROMATOGRAM

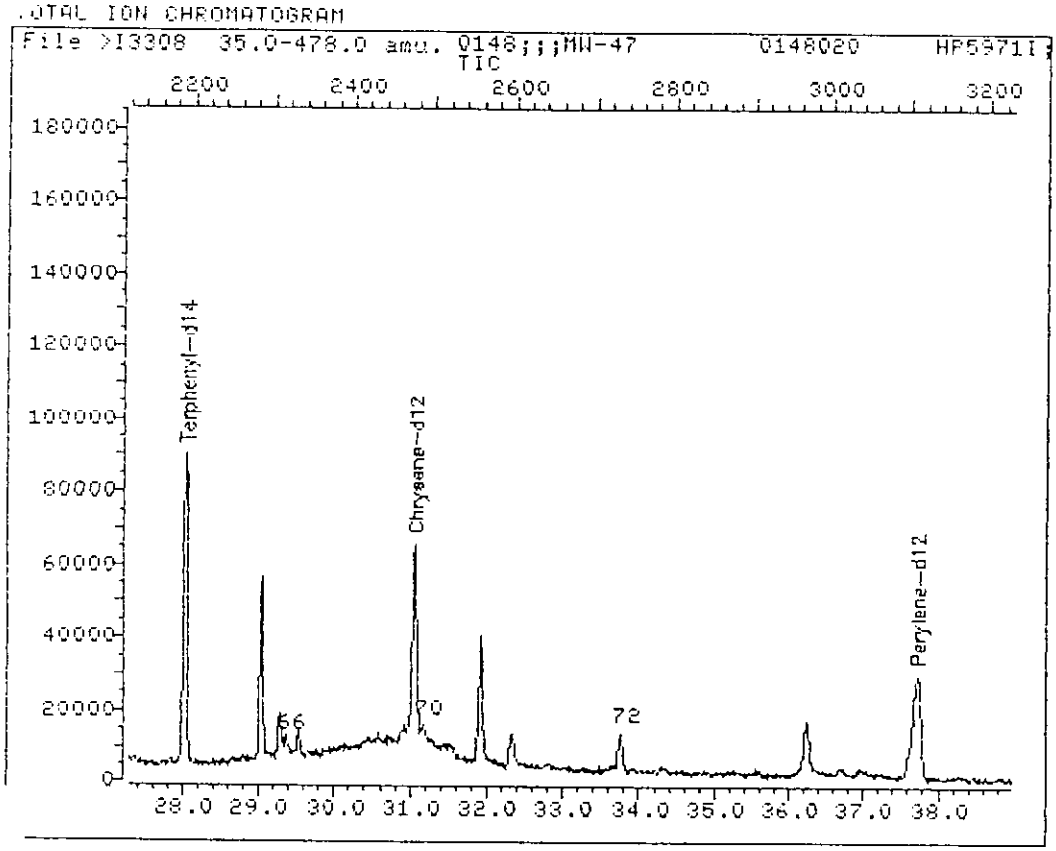


Data File: >I3308 Quant Output File: ^I3308::A6
Name: 0148;;;MW-47 Instrument ID: **MSD
Misc: 0148020 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 13:05
Injected at: 930219 16:44

TOTAL ION CHROMATOGRAM

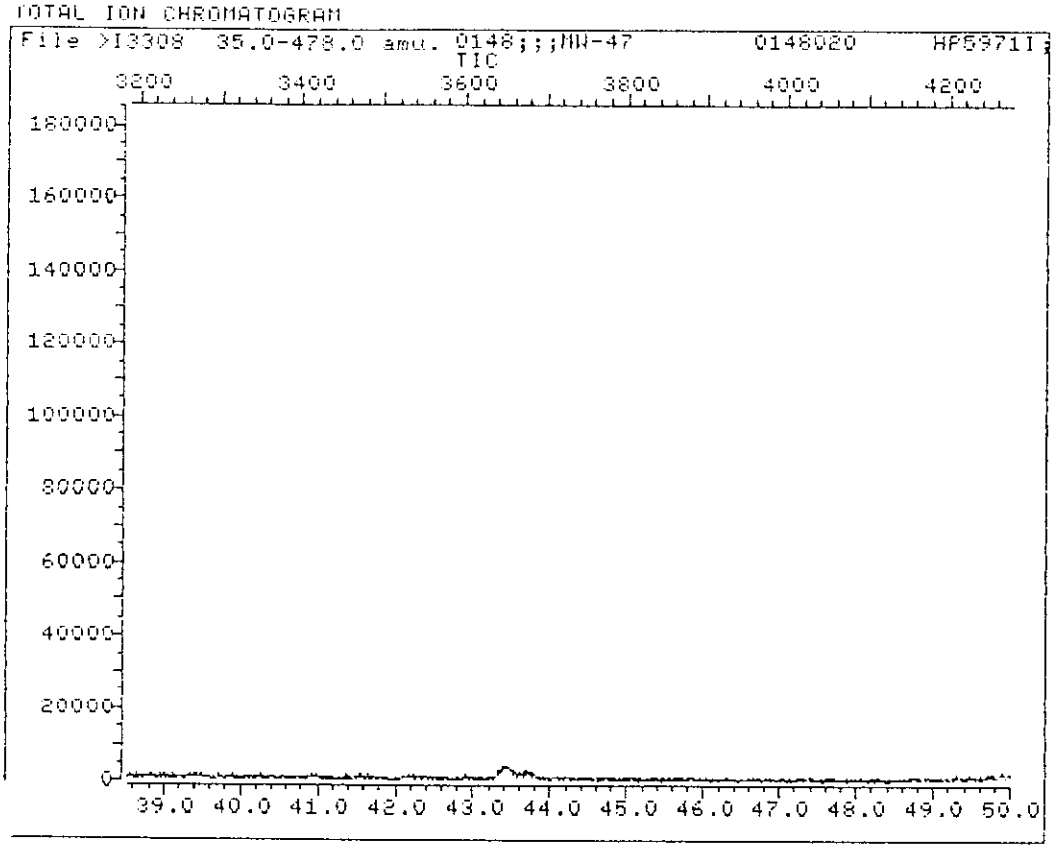


Data File: >I3308 Quant Output File: ^I3308::A6
Name: 0148;;;MW-47 Instrument ID: **MSD
Misc: 0148020 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 13:05
Injected at: 930219 16:44

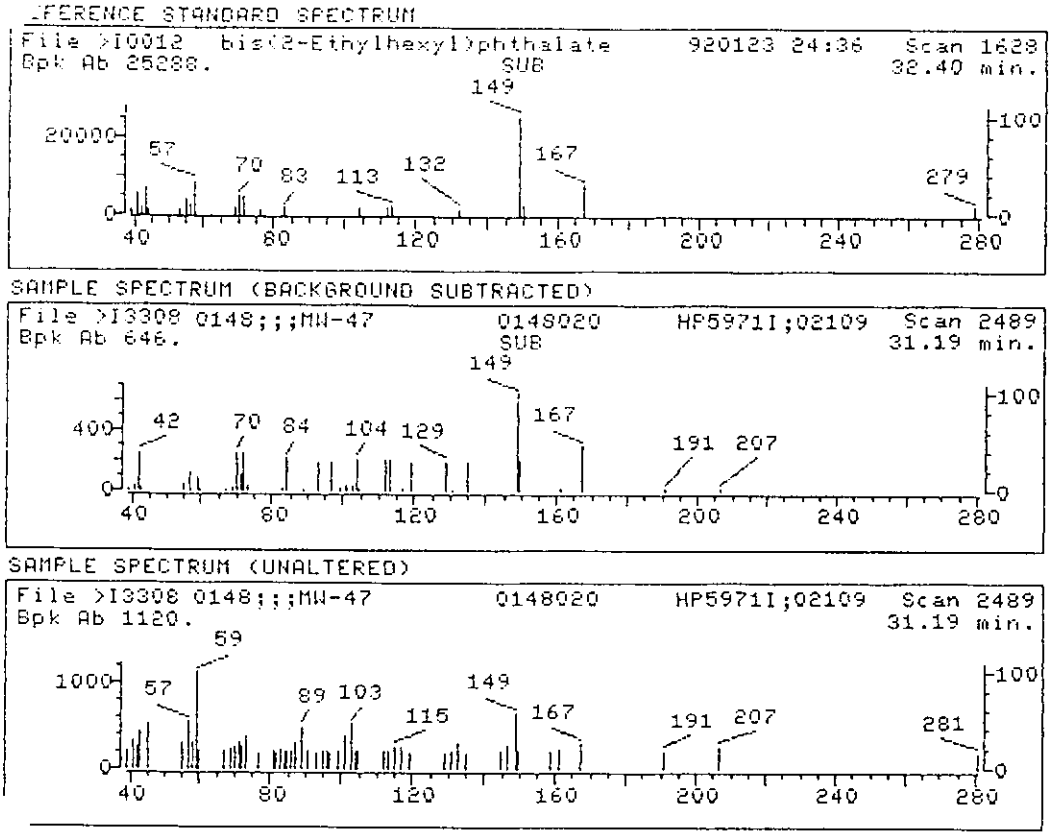
TOTAL ION CHROMATOGRAM



Data File: >I3308 Quant Output File: ^I3308::A6
Name: 0148;;;MW-47 Instrument ID: **MSD
Misc: 0148020 HP5971I;021093;021193;LLW;1;;;I02

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930222 13:05
Injected at: 930219 16:44



Data File: >I3308::A2 Quant Output File: ^I3308::A6
Name: 0148;;;MW-47 Instrument ID: **MSD
Misc: 0148020 HP5971I;021093;021193;LLW;1;;;I02
Quant Time: 930219 17:40 Quant ID File: I_IFI::A5
Injected at: 930219 16:44 Last Calibration: 910116 11:52
Last Qcal Time: 930219 10:28

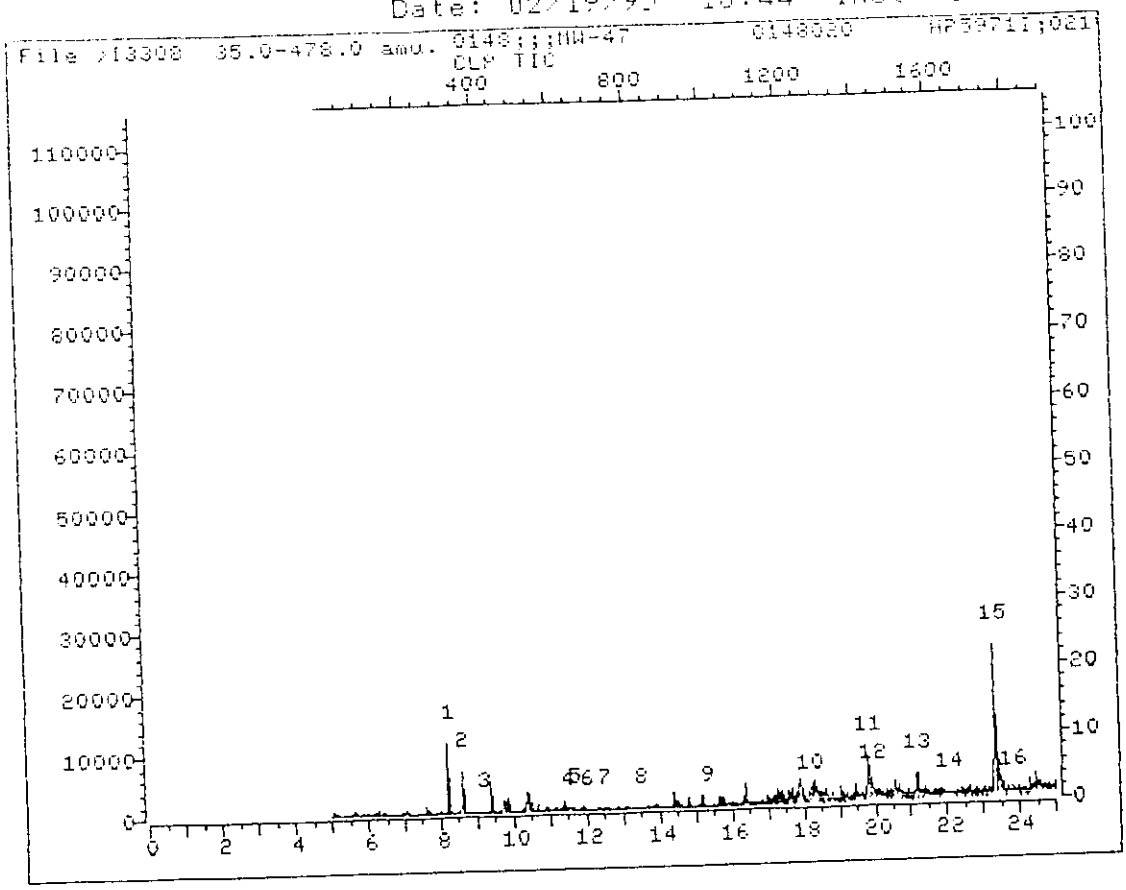
Compound No : 70
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 2489
Retention Time: 31.19 min.
Quant Ion : 148.8
Area : 2184
Concentration : .819 ug
q-value : 89

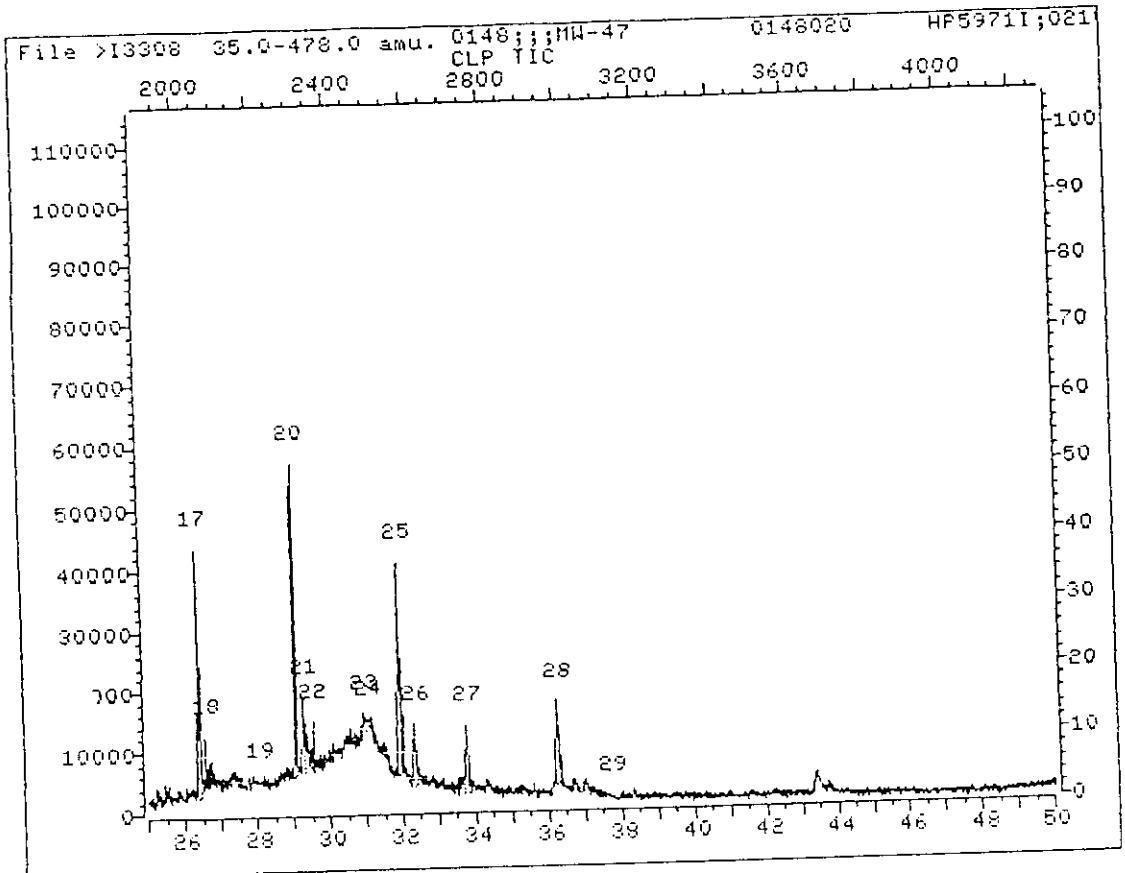
MS data file header from : >I3308::A5

Sample: 0148;;;MW-47 Operator: USER1 2/19/93 16:44
Misc : 0148020 HP5971I;021093;021193;LLW;1;;;I02
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 6 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

Date: 02/19/93 16:44 Inst: I





MW-47 0672
HP5971I

Date: 02/19/93 16:44 Inst: I

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
17.	26.36	122257.	13.	4.	.51
20.	29.04	137365.	13.	5.	.51
25.	31.93	122784.	12.	5.	.51
15.	23.32	55502.	6.	4.	.51
28.	36.23	63270.	6.	6.	.51
26.	32.34	49176.	5.	5.	.51
1.	8.18	23787.	5.	1.	.51
27.	33.75	46314.	4.	5.	.51
21.	29.27	42380.	4.	5.	.51
2.	8.57	15453.	3.	1.	.51
18.	26.55	24629.	3.	4.	.51
11.	19.79	19370.	2.	3.	.51

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.00	105635.	0.00	13.62	5.7
NAPHTHALENE-D8	15.25	134812.	13.62	17.57	1.9
ACENAPHTHENE-D10	19.90	174713.	17.57	21.84	4.3
PHENANTHRENE-D10	23.79	194991.	21.84	27.42	2.6
CHRYSENE-D12	31.06	217674.	27.42	34.39	3.6
PERYLENE-D12	37.73	228615.	34.39	37.73	3.7

ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	3
Target peaks matched:	0
Total TIC identified:	12

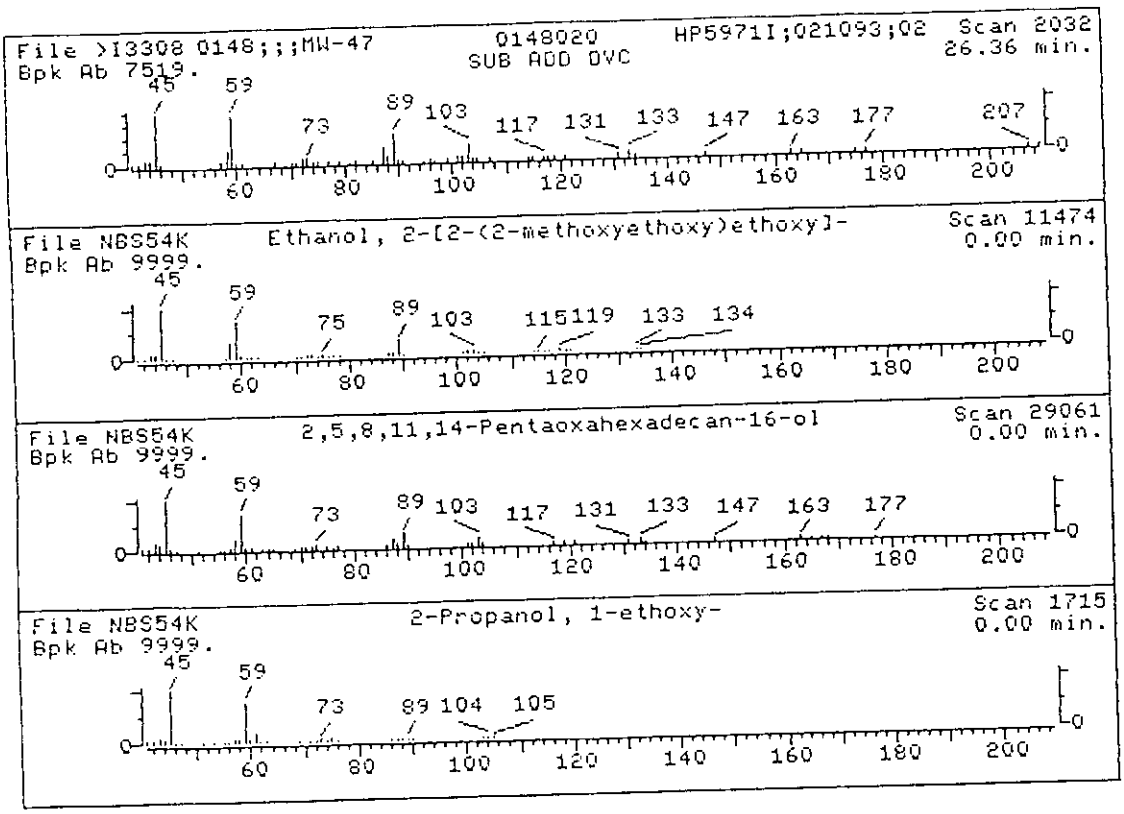
TICS : 6:03 PM MON., 22 FEB., 1993

. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
.. 2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6
3. 2-Propanol, 1-ethoxy-	104	C5H12O2
4. 2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6
5. Silane, ethyldimethyl-	88	C4H12Si

Sample file: >I3308 Spectrum #: 2032
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58	112356	8547	NBS54K	49	50	0	0	95	20	25	28
2.	35	23778521	8670	NBS54K	74	55	2	0	135	32	12	18
3.	32*	1569024	1853	NBS54K	34	60	1	0	92	40	10	18
4.	25	1191873	2071	NBS54K	42	74	0	0	96	49	7	15
5.	25*	758214	1807	NBS54K	31	67	3	0	96	45	8	13

Peak#: 17 Area: 122257. Est Conc: 13. Date: 02/19/93 16:44 Inst: I

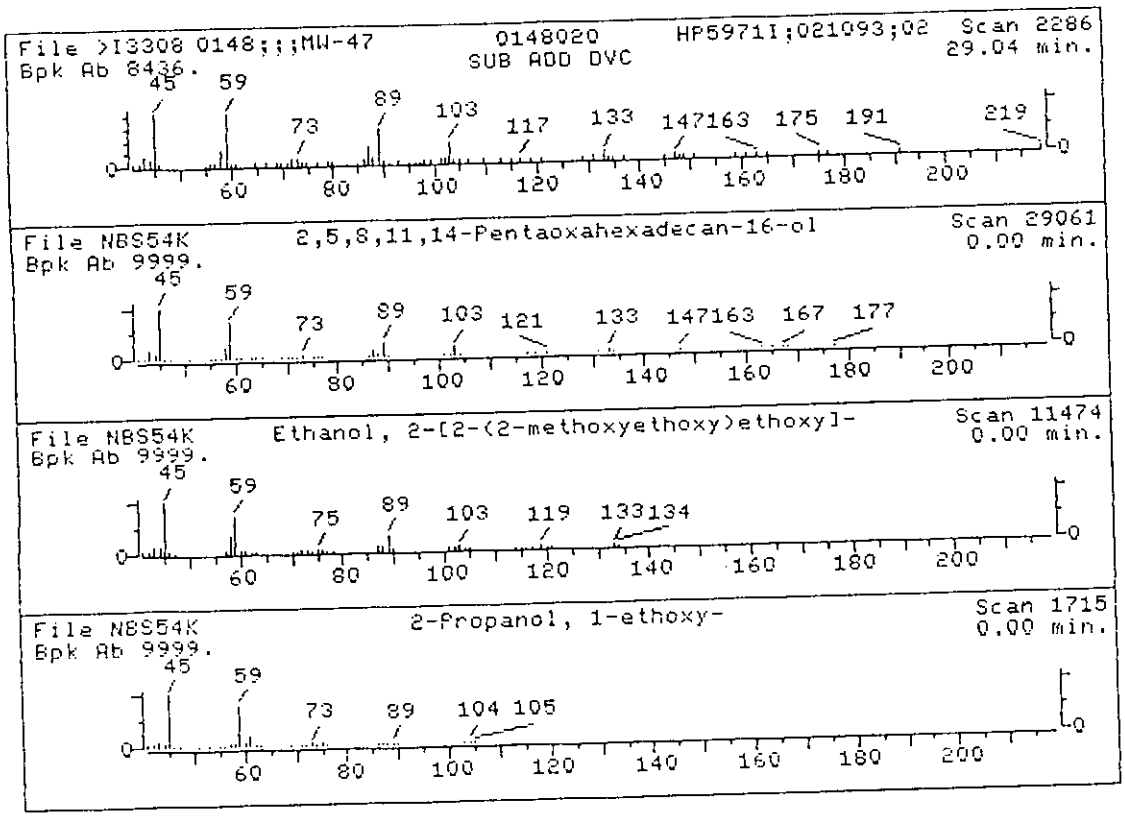


'. 2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6
. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H16O4
3. 2-Propanol, 1-ethoxy-	104	C5H12O2
4. 2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6
5. Silane, ethyldimethyl-	88	C4H12Si

Sample file: >I3308 Spectrum #: 2286
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	45	23778521	8670	NBS54K	44	85	0	0	100	25	17	16
2.	43	112356	8547	NBS54K	50	49	1	0	97	25	17	14
3.	30*	1569024	1853	NBS54K	34	60	1	0	97	43	8	18
4.	25	1191873	2071	NBS54K	46	70	0	0	98	46	7	17
5.	25*	758214	1807	NBS54K	31	67	3	0	98	48	7	13

Peak#: 20 Area: 137365. Est Conc: 13. Date: 02/19/93 16:44 Inst: I

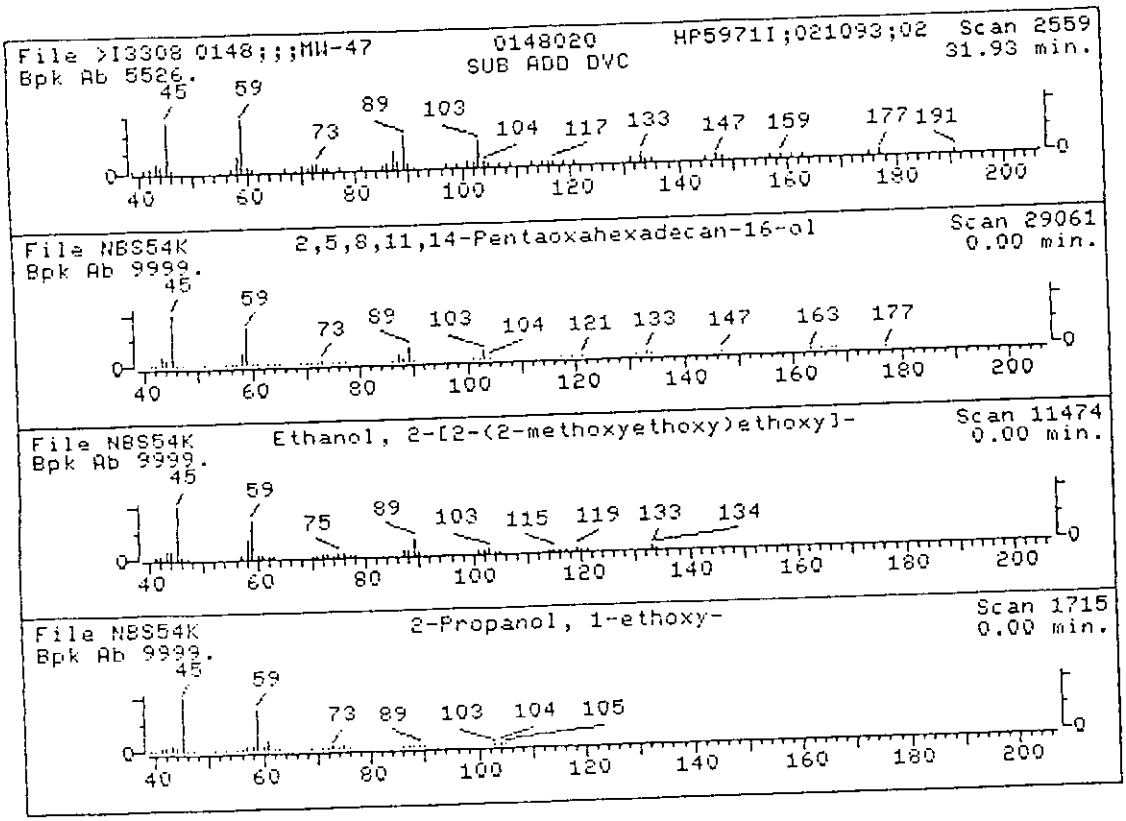


. 2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H2406
.. Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164	C7H1604
3. 2-Propanol, 1-ethoxy-	104	C5H1202
4. Silane, ethyldimethyl-	88	C4H12Si
5. 2,5,8,11,14-Pentaoxapentadecane	222	C10H2205

Sample file: >I3308 Spectrum #: 2559
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	45	23778521	8670	NBS54K	44	85	0	0	96	25	17	16
2.	30	112356	8547	NBS54K	39	60	0	0	92	39	10	16
3.	30*	1569024	1853	NBS54K	34	60	1	0	96	44	8	18
4.	25*	758214	1807	NBS54K	36	62	3	0	100	49	7	13
5.	20	143248	2057	NBS54K	26	84	0	0	100	55	5	13

Peak#: 25 Area: 122784. Est Conc: 12. Date: 02/19/93 16:44 Inst: I

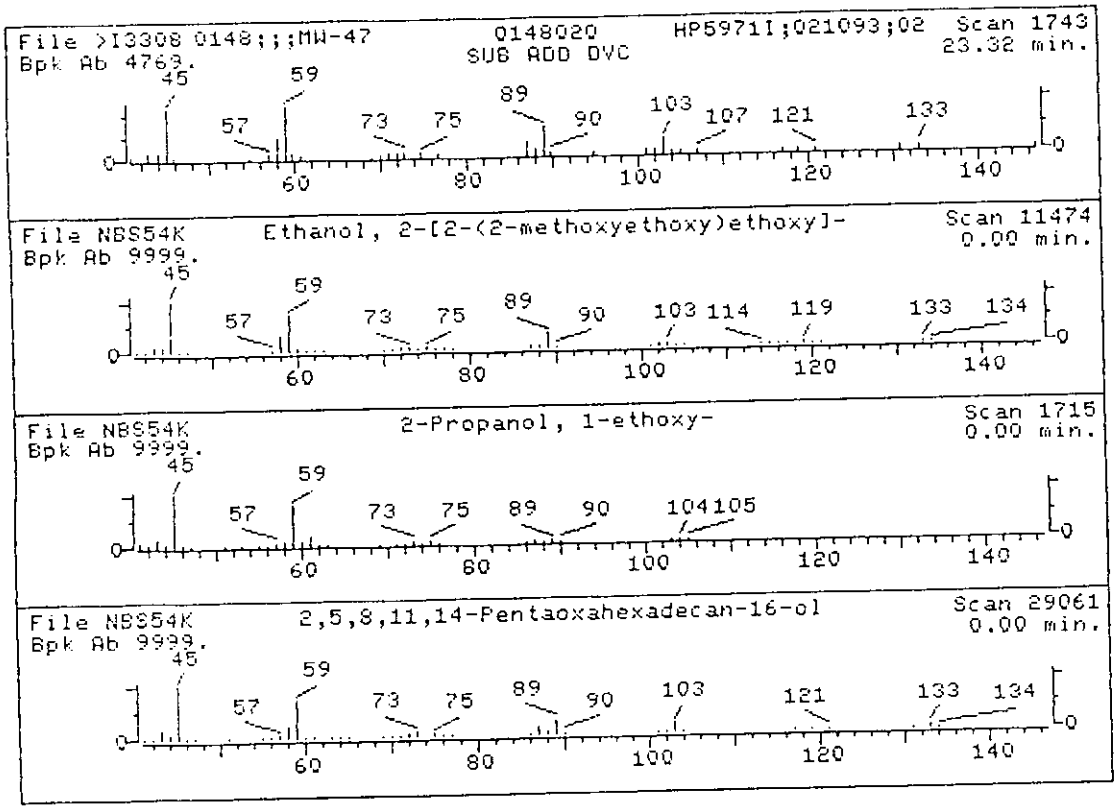


	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-	164 C7H16O4
_.	2-Propanol, 1-ethoxy-	104 C5H12O2
3.	2,5,8,11,14-Pentaoxahexadecan-16-ol	252 C11H24O6
4.	Silane, ethyldimethyl-	88 C4H12Si
5.	2,5,8,11,14,17-Hexaoxaoctadecane	266 C12H26O6

Sample file: >I3308 Spectrum #: 1743
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	46	112356	8547	NBS54K	55	44	1	0	94	22	17	17
2.	32*	1569024	1853	NBS54K	34	60	1	0	94	40	10	18
3.	29	23778521	8670	NBS54K	61	68	2	0	128	35	12	12
4.	25*	758214	1807	NBS54K	40	58	2	0	89	49	7	16
5.	25	1191873	2071	NBS54K	36	80	0	0	100	49	7	15

Peak#: 15 Area: 55502. Est Conc: 6. Date: 02/19/93 16:44 Inst: I

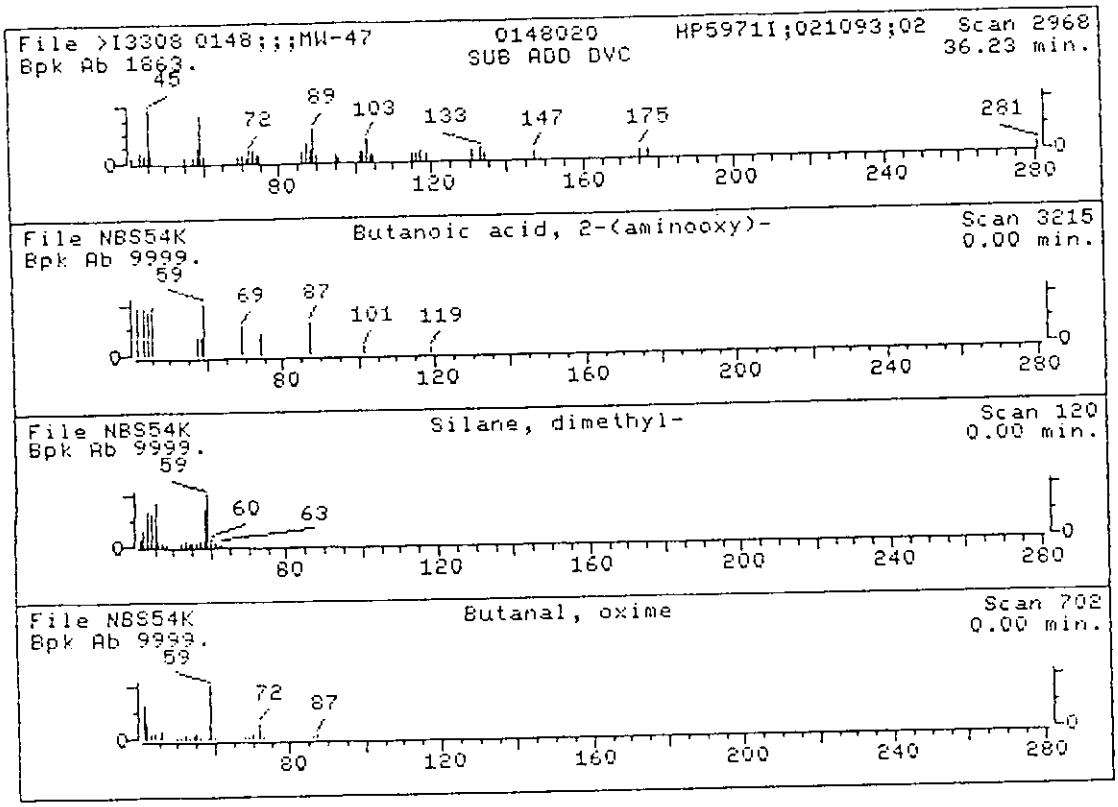


Butanoic acid, 2-(aminooxy)- 119 C4H9NO3
_. Silane, dimethyl- 60 C2H8Si
3. Butanal, oxime 87 C4H9NO
4. Hydrazine, 1-methyl-1-propyl- 88 C4H12N2
5. Silane, ethyldimethyl- 88 C4H12Si

Sample file: >I3308 Spectrum #: 2968
Search speed: 1 Tilting option: N No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	4385959	7630	NBS54K	32	74	3	0	89	45	8	13
2.	25*	1111746	1791	NBS54K	32	77	3	0	89	48	7	13
3.	11*	110690	1803	NBS54K	26	68	2	0	75	65	2	14
4.	11*	4986496	1806	NBS54K	20	65	2	0	89	65	2	13
5.	11*	758214	1807	NBS54K	26	72	2	0	60	62	2	14

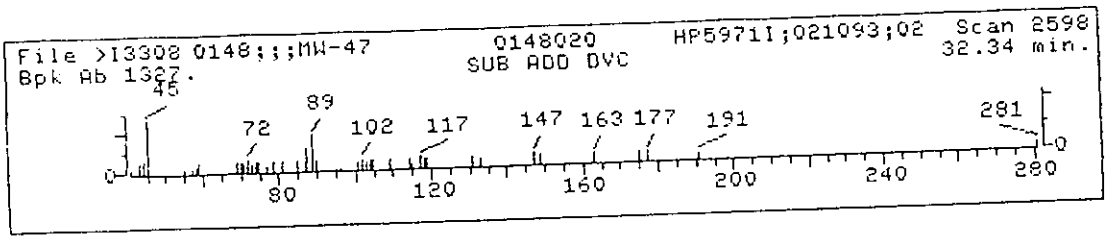
Peak#: 28 Area: 63270. Est Conc: 6. Date: 02/19/93 16:44 Inst: I



Sample file: >I3308 Spectrum #: 2598

No data base entries were retrieved.

Peak#: 26 Area: 49176. Est Conc: 5. Date: 02/19/93 16:44 Inst: 1

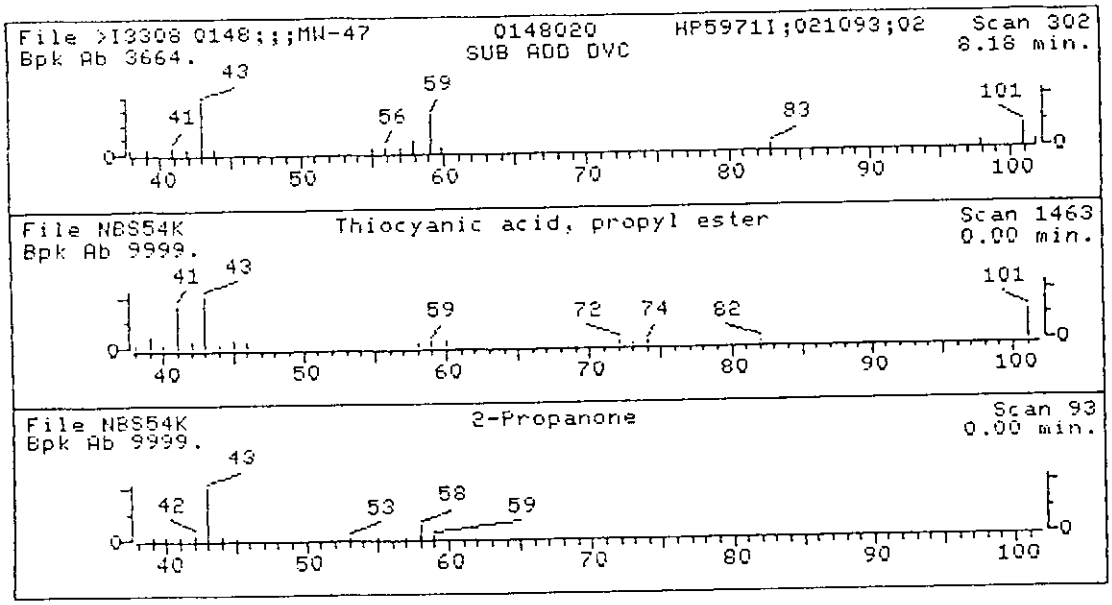


1. Thiocyanic acid, propyl ester — 101 C4H7NS
2. 2-Propanone — 58 C3H6O

Sample file: >I3308 Spectrum #: 302
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	30*	4251165	10744	NBS54K	26	72	3	0	68	33	12	13
2.	20*	67641	1370	NBS54K	21	50	0	0	91	51	5	15

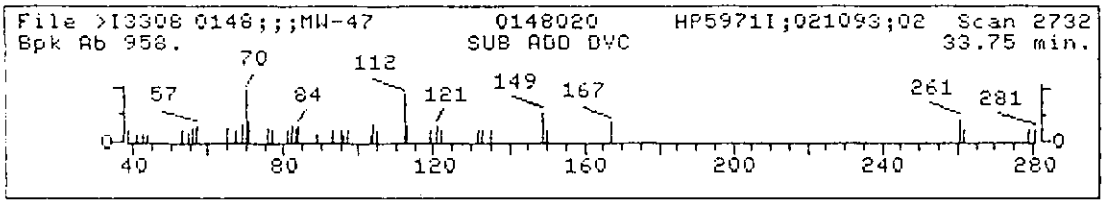
Peak#: 1 Area: 23787. Est Conc: 5. Date: 02/19/93 16:44 Inst: I



Sample file: >I3308 Spectrum #: 2732

No data base entries were retrieved.

Peak#: 27 Area: 46314. Est Conc: 4. Date: 02/19/93 16:44 Inst: I

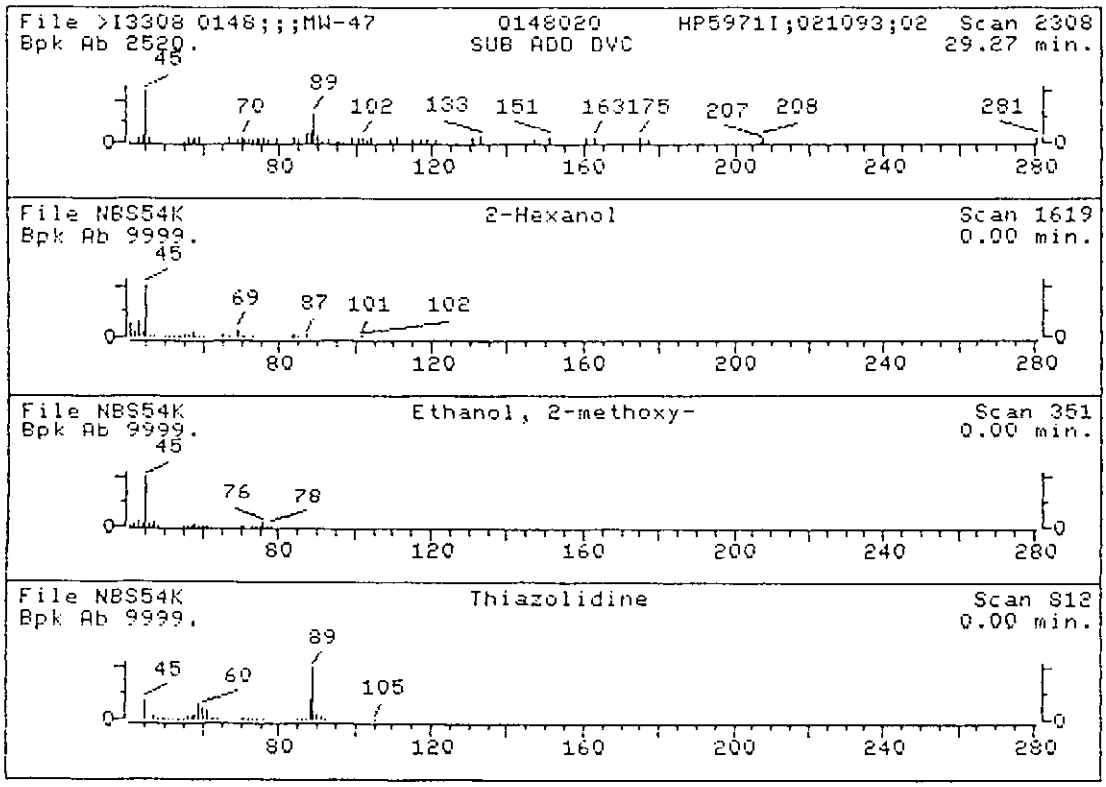


1.	2-Hexanol	102 C6H14O
2.	Ethanol, 2-methoxy-	76 C3H8O2
3.	Thiazolidine	89 C3H7NS
4.	Silane, methylenebis[methyl-	104 C3H12Si2

Sample file: >I3308 Spectrum #: 2308
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	626937	353	NBS54K	29	59	3	0	100	50	7	13
2.	20*	109864	340	NBS54K	29	48	2	0	100	51	5	14
3.	20*	504789	8463	NBS54K	27	78	3	0	54	54	5	13
4.	11*	5654057	8465	NBS54K	33	94	3	0	54	62	2	13

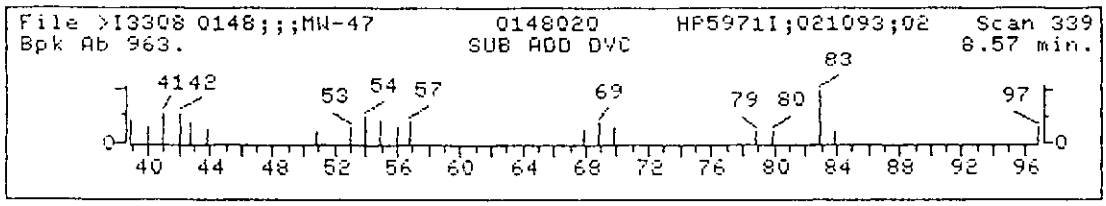
Peak#: 21 Area: 42380. Est Conc: 4. Date: 02/19/93 16:44 Inst: I



Sample file: >I3308 Spectrum #: 339

No data base entries were retrieved.

Peak#: 2 Area: 19453. Est Conc: 3. Date: 02/19/93 16:44 Inst: I

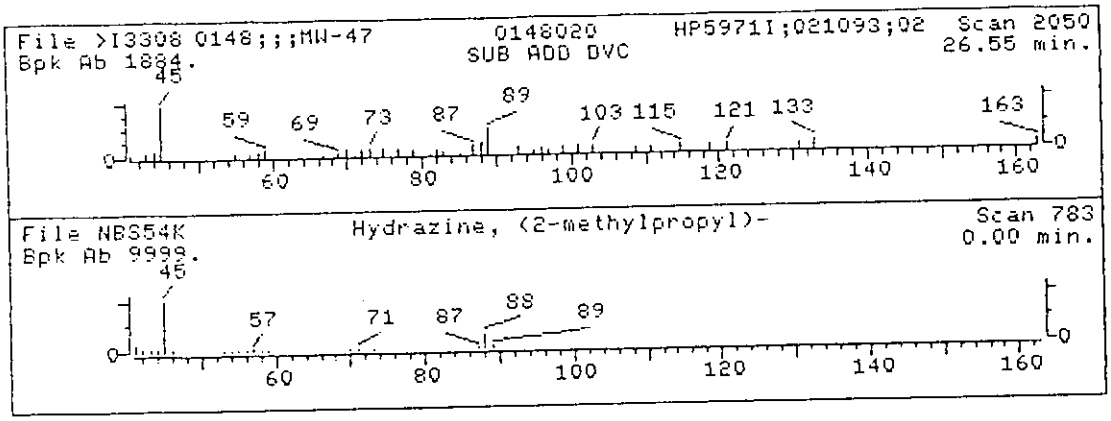


.. Hydrazine, (2-methylpropyl)- 88 C4H12N2

Sample file: >I3308 Spectrum #: 2050
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	42504870	8036	NBS54K	20	61	2	0	67	51	5	13

Peak#: 18 Area: 24629. Est Conc: 3. Date: 02/19/93 16:44 Inst: I

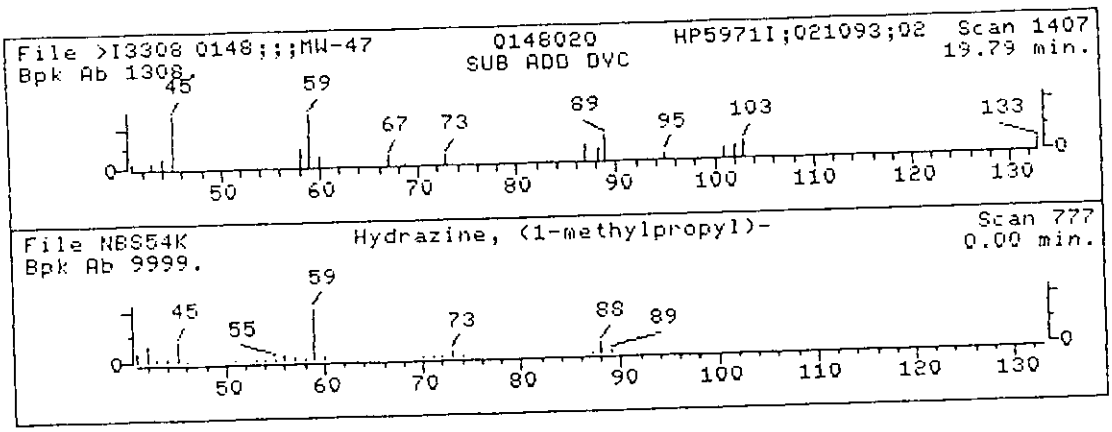


.. Hydrazine, (1-methylpropyl)- 88 C4H12N2

Sample file: >I3308 Spectrum #: 1407
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	30924142	8034	NBS54K	25	77	3	0	98	58	3	13

Peak#: 11 Area: 19370. Est Conc: 2. Date: 02/19/93 16:44 Inst: I



6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA C 0685

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Instrument ID: HP5971I Calibration Date(s): 02/03/93

Calibration Times: 1702 2202

LAB FILE ID: RRF20 =I3227.D RRF50 =I3226.D
RRF80 =I3228.D RRF120=I3229.D RRF160=I3230.D

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
* Phenol	2.119	1.949	1.825	1.518	1.290	1.740	19.2*
* bis(2-Chloroethyl)ether	2.151	1.941	1.819	1.571	1.411	1.779	16.5*
* 2-Chlorophenol	1.396	1.333	1.310	1.198	1.051	1.258	10.8*
* 1,3-Dichlorobenzene	1.492	1.395	1.382	1.237	1.100	1.321	11.6*
* 1,4-Dichlorobenzene	1.497	1.393	1.365	1.208	1.009	1.294	14.7*
* 1,2-Dichlorobenzene	1.492	1.353	1.283	1.066	0.837	1.206	21.3*<-
* 2-Methylphenol	1.416	1.213	1.252	1.188	1.126	1.239	8.8*
2,2'-oxybis(1-Chloropropane)	1.819	1.615	1.539	1.292	1.018	1.457	21.2
* 4-Methylphenol	1.506	1.396	1.302	1.254	1.430	1.378	7.3*
* N-Nitroso-di-n-propylamine	1.056	0.946	0.916	0.875	0.644	0.887	17.1*
* Hexachloroethane	0.763	0.702	0.712	0.636	0.482	0.659	16.5*
* Nitrobenzene	0.415	0.394	0.355	0.339	0.310	0.363	11.6*
* Isophorone	0.939	0.858	0.866	0.859	0.686	0.842	11.1*
* 2-Nitrophenol	0.287	0.273	0.255	0.243	0.244	0.260	7.4*
* 2,4-Dimethylphenol	0.361	0.378	0.372	0.375	0.384	0.374	2.3*
* bis(2-Chloroethoxy)methane	0.638	0.601	0.582	0.572	0.379	0.554	18.3*
* 2,4-Dichlorophenol	0.330	0.321	0.316	0.318	0.299	0.317	3.6*
* 1,2,4-Trichlorobenzene	0.363	0.349	0.347	0.339	0.308	0.341	6.1*
* Naphthalene	1.059	0.973	0.962	0.892	0.763	0.930	11.9*
4-Chloroaniline	0.215	0.147	0.101	0.125	0.392	0.196	60.1
Hexachlorobutadiene	0.188	0.178	0.178	0.172	0.168	0.177	4.3
* 4-Chloro-3-methylphenol	0.366	0.349	0.348	0.353	0.357	0.355	2.0*
* 2-Methylnaphthalene	0.750	0.703	0.674	0.598	0.545	0.654	12.6*
Hexachlorocyclopentadiene	0.381	0.358	0.375	0.388	0.354	0.371	4.0
* 2,4,6-Trichlorophenol	0.426	0.425	0.412	0.446	0.471	0.436	5.3*
* 2,4,5-Trichlorophenol	0.000	0.429	0.435	0.429	0.343	0.409	10.7*
* 2-Chloronaphthalene	1.189	1.097	1.073	1.044	0.910	1.063	9.5*
2-Nitroaniline	0.000	0.358	0.380	0.398	0.401	0.384	5.1
Dimethylphthalate	1.409	1.359	1.358	1.352	1.364	1.368	1.7
* Acenaphthylene	1.935	1.744	1.647	1.428	1.215	1.594	17.5*
* 2,6-Dinitrotoluene	0.392	0.365	0.341	0.311	0.234	0.329	18.4*
3-Nitroaniline	0.000	0.050	0.044	0.037	0.188	0.080	90.6
* Acenaphthene	1.097	1.002	0.981	0.937	0.803	0.964	11.1*
2,4-Dinitrophenol	0.000	0.194	0.231	0.263	0.287	0.244	16.6
4-Nitrophenol	0.000	0.142	0.147	0.131	0.158	0.144	7.8
* Dibenzofuran	1.610	1.527	1.462	1.418	1.240	1.452	9.5*
* 2,4-Dinitrotoluene	0.495	0.508	0.508	0.526	0.543	0.516	3.6*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

0686

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Instrument ID: HP5971I Calibration Date(s): 02/03/93

Calibration Times: 1702 2202

LAB FILE ID: RRF20 =I3227.D RRF50 =I3226.D
RRF80 =I3228.D RRF120=I3229.D RRF160=I3230.D

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate	1.481	1.362	1.337	1.310	1.219	1.342	7.0
4-Chlorophenyl-phenylether *	0.615	0.534	0.488	0.434	0.432	0.501	15.3*
Fluorene *	1.239	1.095	0.955	0.874	0.859	1.004	16.0*
4-Nitroaniline	0.000	0.140	0.161	0.187	0.192	0.170	14.3
4,6-Dinitro-2-methylphenol	0.000	0.170	0.185	0.198	0.137	0.173	15.3
N-Nitrosodiphenylamine (1)	0.431	0.372	0.352	0.358	0.298	0.362	13.2
4-Bromophenyl-phenylether *	0.200	0.193	0.191	0.190	0.165	0.188	7.2*
Hexachlorobenzene *	0.285	0.276	0.275	0.262	0.229	0.265	8.4*
Pentachlorophenol *	0.000	0.185	0.192	0.193	0.181	0.187	3.2*
Phenanthrene *	0.995	0.958	0.956	0.925	0.813	0.929	7.5*
Anthracene *	1.084	0.955	0.960	0.910	0.698	0.922	15.3*
Carbazole	0.346	0.204	0.213	0.202	0.348	0.262	29.4
Di-n-butylphthalate	1.620	1.413	1.390	1.302	1.097	1.364	13.9
Fluoranthene *	1.098	1.012	1.055	1.012	0.878	1.011	8.1*
Pyrene *	1.407	1.379	1.330	1.273	1.400	1.358	4.1*
Butylbenzylphthalate	0.846	0.806	0.824	0.791	0.844	0.822	2.9
3,3'-Dichlorobenzidine	0.206	0.181	0.191	0.232	0.300	0.222	21.4
Benzo(a)anthracene *	1.161	1.114	1.145	1.145	1.176	1.148	2.0*
Chrysene *	1.097	0.929	0.854	0.790	0.915	0.917	12.5*
bis(2-Ethylhexyl)phthalate	1.185	1.018	0.915	0.811	0.992	0.984	14.0
Di-n-octylphthalate	2.140	2.000	2.048	2.051	1.782	2.004	6.7
Benzo(b)fluoranthene *	1.171	1.127	1.225	1.503	1.563	1.318	15.2*
Benzo(k)fluoranthene *	1.049	0.979	0.925	0.813	0.622	0.877	19.0*
Benzo(a)pyrene *	1.102	1.048	1.071	1.106	1.097	1.085	2.3*
Indeno(1,2,3-cd)pyrene *	0.897	0.928	1.003	1.009	1.062	0.980	6.8*
Dibenz(a,h)anthracene *	0.898	0.796	0.882	0.897	0.873	0.869	4.8*
Benzo(g,h,i)perylene *	0.982	0.981	0.992	0.970	0.935	0.972	2.2*
Nitrobenzene-d5 *	0.421	0.417	0.403	0.391	0.375	0.401	4.7*
2-Fluorobiphenyl *	1.325	1.235	1.203	1.153	0.983	1.180	10.7*
Terphenyl-d14 *	0.993	0.923	0.888	0.819	0.943	0.913	7.1*
Phenol-d5 *	2.022	1.901	1.857	1.696	1.500	1.795	11.3*
2-Fluorophenol *	1.302	1.301	1.334	1.273	1.236	1.289	2.9*
2,4,6-Tribromophenol	0.287	0.261	0.262	0.252	0.245	0.261	6.1
2-Chlorophenol-d4 *	1.304	1.273	1.275	1.180	0.971	1.201	11.4*
1,2-Dichlorobenzene-d4 *	0.996	0.900	0.876	0.757	0.564	0.818	20.3*

(1) - Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Quant Rev: 7

Operator ID: USER1
Output File: ^I3226::A6
Data File: >I3226::A3
Name: ;;;SSTD050
Misc: 050PPMSTD HP5971I;;;;1;;;I0288

Quant Time: 930203 17:59
Injected at: 930203 17:02
Dilution Factor: 1.00000
Instrument ID: **MSD

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930203 15:16

JMC 2/9/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.30	151.8	24880	40.00	ug	94
2)	2-Chlorophenol-d4	11.82	132.0	39602	51.80	ug	83
3)	2-Fluorophenol	9.25	111.8	40471	58.76	ug	78
4)	Phenol-d5	11.52	98.8	59136	60.80	ug	30
5)	Phenol	11.56	93.9	60613	59.61	ug	40
6)	bis(2-Chloroethyl)ether	11.76	92.7	60362	65.71	ug	66
7)	2-Chlorophenol	11.86	127.8	41465	54.81	ug	90
8)	1,3-Dichlorobenzene	12.21	145.8	43394	51.13	ug	98
9)	1,4-Dichlorobenzene	12.35	145.7	43331M	50.82	ug	89
10)	1,2-Dichlorobenzene-d4	12.78	152.0	27988	49.64	ug	93
11)	1,2-Dichlorobenzene	12.82	145.7	42067	51.07	ug	97
12)	2-Methylphenol	13.02	107.8	37730M	51.94	ug	72
13)	2,2'-oxybis(1-Chloropropane)	13.12	44.8	50212	76.54	ug	91
14)	4-Methylphenol	13.39	107.8	43424	55.42	ug	88
15)	N-Nitroso-di-n-propylamine	13.48	69.9	29412	50.78	ug	74
16)	Hexachloroethane	13.59	116.7	21844	49.31	ug	96
17)	*Naphthalene-d8	15.58	135.9	86822	40.00	ug	97
18)	Nitrobenzene-d5	13.78	81.8	45265	43.58	ug	76
19)	Nitrobenzene	13.83	76.8	42765	47.96	ug	81
20)	Isophorone	14.43	81.8	93132	48.65	ug	88
21)	2-Nitrophenol	14.64	138.9	29604	55.83	ug	71
22)	2,4-Dimethylphenol	14.75	106.8	41067	48.31	ug	94
23)	bis(2-Chloroethoxy)methane	15.01	92.8	65222	56.07	ug	79
24)	2,4-Dichlorophenol	15.24	161.7	34854	44.03	ug	97
25)	1,2,4-Trichlorobenzene	15.48	179.7	37913	45.70	ug	96
26)	Naphthalene	15.63	127.9	105625	52.55	ug	83
27)	4-Chloroaniline	15.88	126.8	15951	34.29	ug	87
28)	Hexachlorobutadiene	16.12	224.6	19337	35.94	ug	97
29)	4-Chloro-3-methylphenol	17.06	106.9	37839	45.95	ug	88
30)	2-Methylnaphthalene	17.45	141.9	76298	51.80	ug	99
31)	*Acenaphthene-d10	20.27	163.9	47934	40.00	ug	96
32)	Hexachlorocyclopentadiene	18.05	236.6	21463	39.83	ug	95
33)	2,4,6-Trichlorophenol	18.25	195.8	25467	45.37	ug	98
34)	2,4,5-Trichlorophenol	18.35	195.8	25715	43.17	ug	93
35)	2-Fluorobiphenyl	18.48	171.8	73976	51.27	ug	95
36)	2-Chloronaphthalene	18.74	161.8	65746	47.72	ug	98
37)	2-Nitroaniline	19.09	64.9	21442	43.62	ug	66
38)	Dimethylphthalate	19.65	162.8	81436	47.10	ug	97
39)	Acenaphthylene	19.85	152.0	104515	52.71	ug	97
40)	2,6-Dinitrotoluene	19.84	164.8	21889	46.23	ug	79

QUANT REPORT

Quant Rev: 7 Quant Time: 930203 17:59
Injected at: 930203 17:02
Dilution Factor: 1.00000
Instrument ID: **MSD

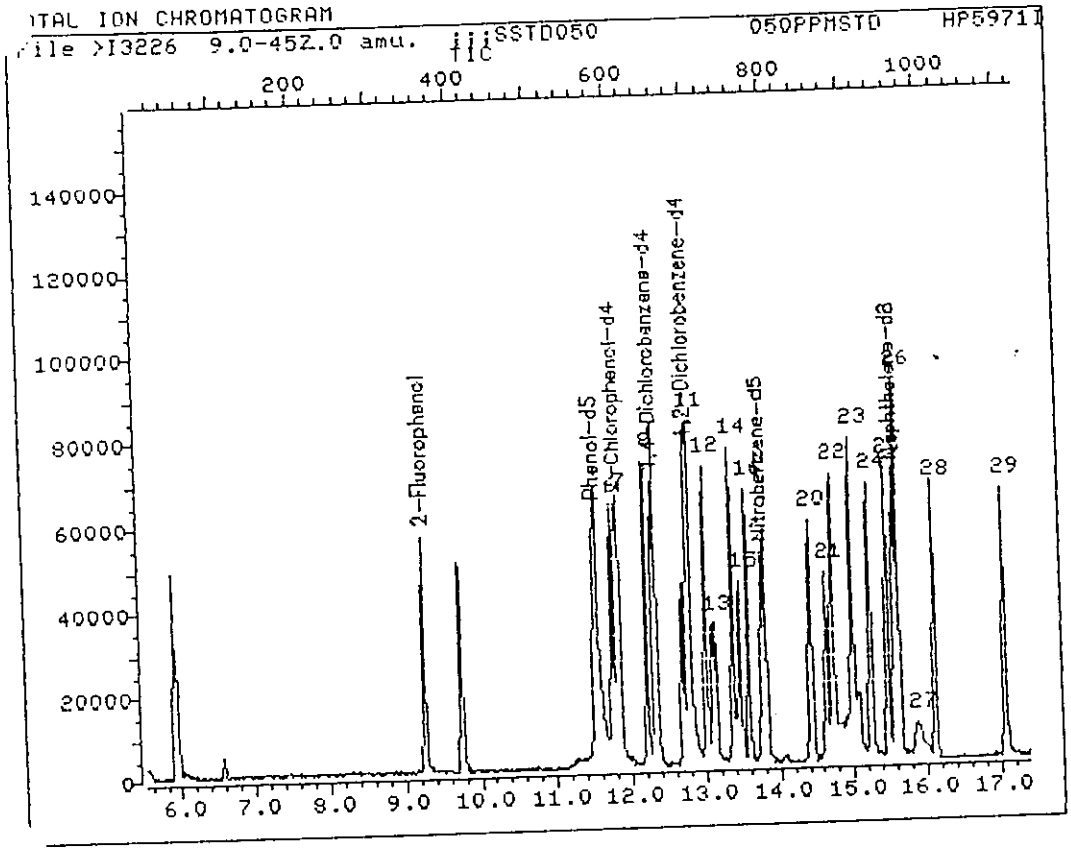
Operator ID: USER1
Output File: ^I3226::A6
Data File: >I3226::A3
Name: ;;;SSTD050
Misc: 050PPMSTD HP5971I;;;;1;;;I0288

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal.Time: 930203 15:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	3-Nitroaniline	20.16	137.8	2992	29.32	ug	71
42)	Acenaphthene	20.35	152.9	60057	51.16	ug	98
43)	2,4-Dinitrophenol	20.46	183.8	11602	107.42	ug	87
44)	4-Nitrophenol	20.59	108.8	8504	33.04	ug	86
45)	Dibenzofuran	20.77	167.8	91510	48.23	ug	94
46)	2,4-Dinitrotoluene	20.87	164.8	30418	45.13	ug	78
47)	Diethylphthalate	21.52	148.8	81588	44.00	ug	97
48)	4-Chlorophenyl-phenylether	21.68	203.9	31987	50.08	ug	79
49)	Fluorene	21.69	165.9	65593	53.08	ug	95
1)	4-Nitroaniline	21.86	137.9	8382	34.01	ug	77
1)	2,4,6-Tribromophenol	22.37	329.6	15629	44.69	ug	92
52)	*Phenanthrene-d10	24.17	187.9	81624	40.00	ug	99
53)	4,6-Dinitro-2-methylphenol	21.94	197.9	17383	72.36	ug	80
54)	N-Nitrosodiphenylamine (1)	22.01	168.9	37953	51.62	ug	96
55)	4-Bromophenyl-phenylether	22.96	247.9	19664	47.57	ug	84
56)	Hexachlorobenzene	23.37	283.6	28157	47.96	ug	97
57)	Pentachlorophenol	23.83	265.6	18827	52.22	ug	97
58)	Phenanthrene	24.24	177.9	97720	50.56	ug	97
59)	Carbazole	24.75	166.8	20769	27.63	ug	99
60)	Anthracene	24.35	177.9	97480	48.70	ug	98
61)	Di-n-butylphthalate	25.82	148.8	144198	49.26	ug	98
62)	Fluoranthene	27.41	201.9	103299	46.44	ug	98
63)	*Chrysene-d12	31.60	240.0	61937	40.00	ug	97
64)	Pyrene	28.02	201.9	106746	57.12	ug	98
65)	Terphenyl-d14	28.41	244.0	71459	54.63	ug	98
66)	Butylbenzylphthalate	29.79	148.8	62366	54.87	ug	99
67)	3,3'-Dichlorobenzidine	31.45	251.9	14050	40.86	ug	83
68)	Benzo(a)anthracene	31.53	228.0	86217	48.81	ug	98
69)	Chrysene	31.70	228.0	71947	50.73	ug	99
70)	bis(2-Ethylhexyl)phthalate	31.72	148.8	78823	55.52	ug	93
71)	*Perylene-d12	38.73	264.0	58133	40.00	ug	95
72)	Di-n-octylphthalate	34.34	148.9	145337	56.26	ug	95
73)	Benzo(b)fluoranthene	36.43	252.0	81897	49.13	ug	97
~~73)~~	~~Benzo(b)fluoranthene~~	~~36.57~~	~~252.0~~	~~71160~~	~~42.68~~	~~ug~~	~~90~~
~~74)~~	~~Benzo(k)fluoranthene~~	~~36.43~~	~~252.0~~	~~81897~~	~~53.51~~	~~ug~~	~~98~~
1)	Benzo(k)fluoranthene	36.57	252.0	71160	46.49	ug	94
75)	Benzo(a)pyrene	38.38	252.0	76152	48.55	ug	95
76)	Indeno(1,2,3-cd)pyrene	47.58	276.0	67429	45.19	ug	94
77)	Dibenz(a,h)anthracene	47.88	278.0	57867	45.13	ug	87
78)	Benzo(g,h,i)perylene	50.30	276.0	71318	49.24	ug	75

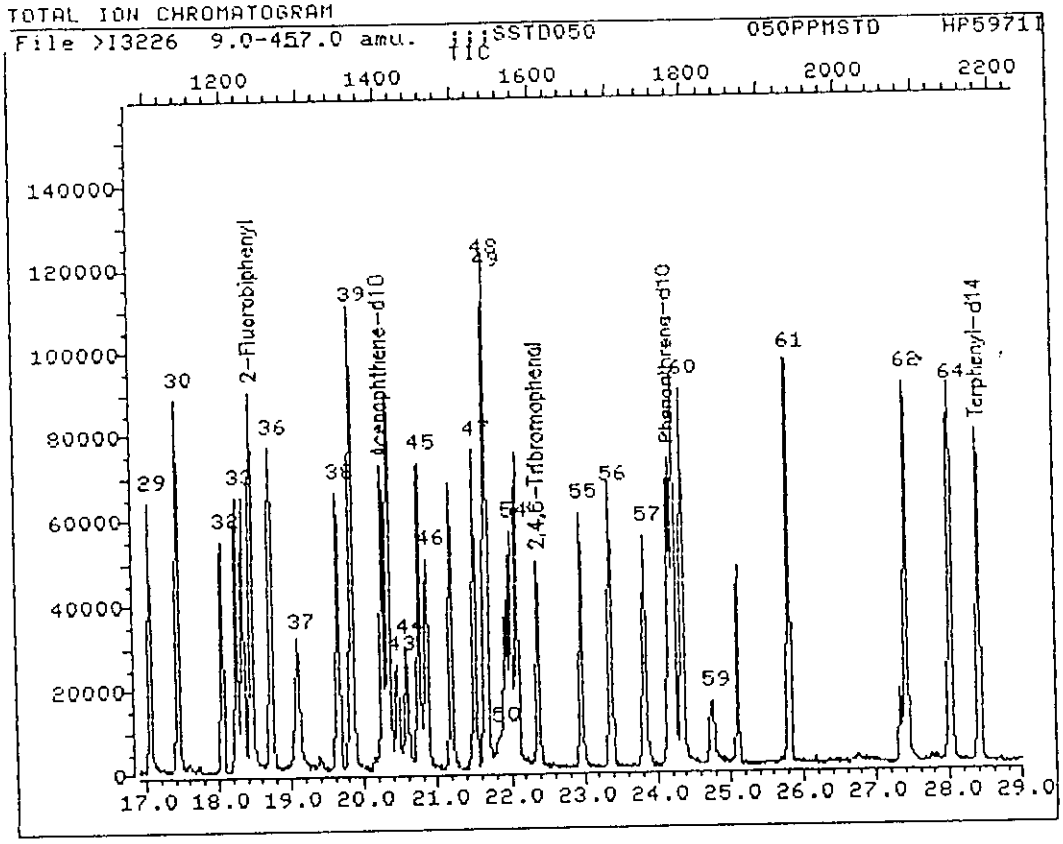
AMC 2/9/93



Data File: >I3226::A3 Quant Output File: ^I3226::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 15:16

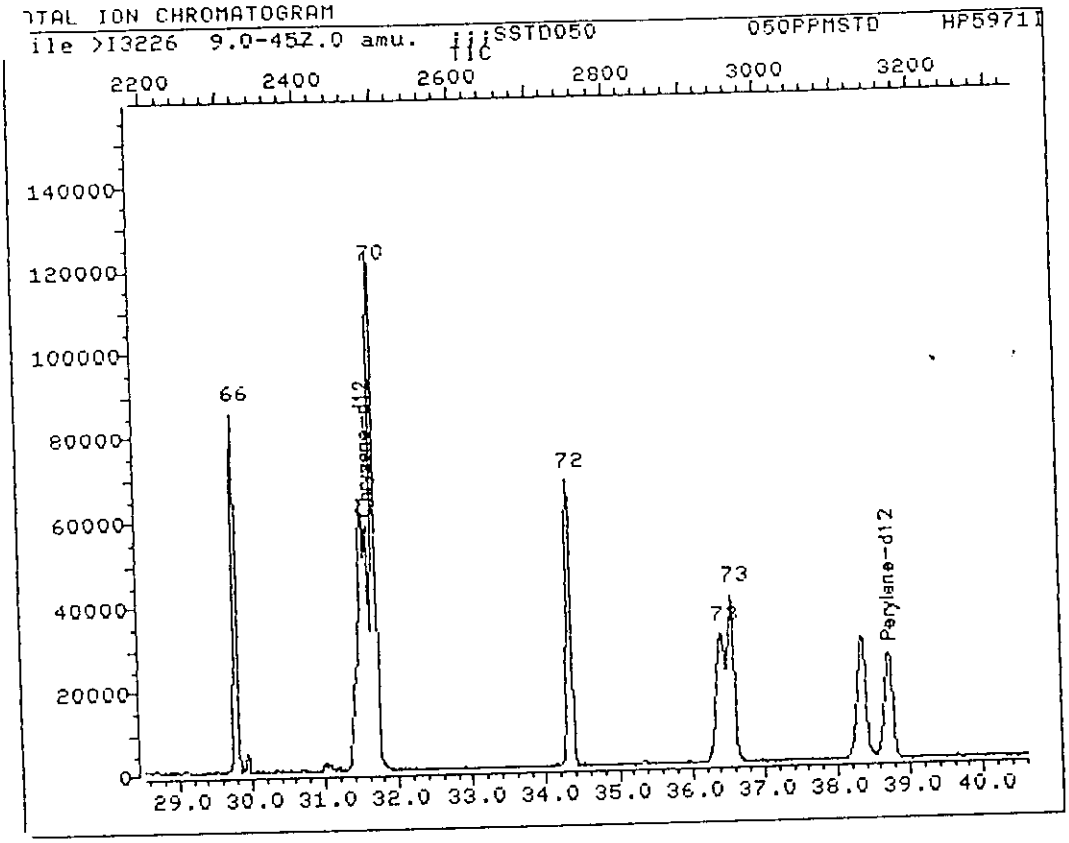
Operator ID: USER1
Quant Time : 930203 17:59
Injected at: 930203 17:02



Data File: >I3226::A3 Quant Output File: ^I3226::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 15:16

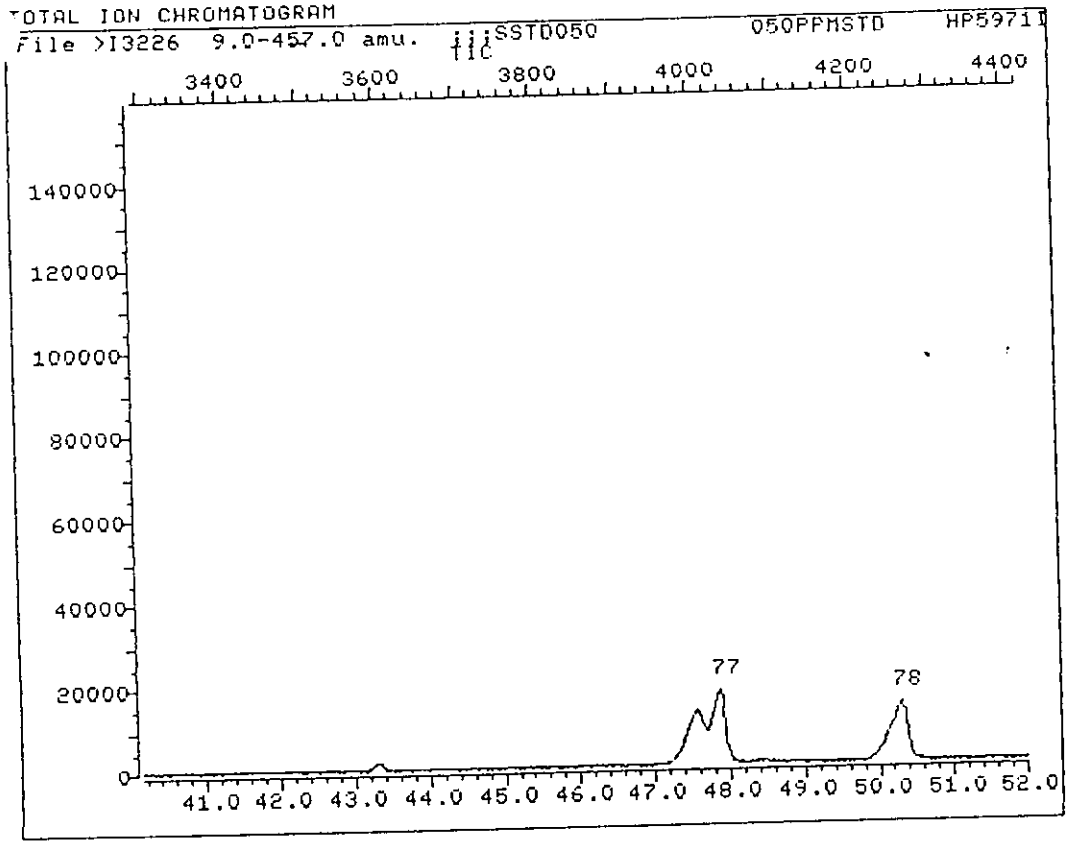
Operator ID: USER1
Quant Time : 930203 17:59
Injected at: 930203 17:02



Data File: >I3226::A3 Quant Output File: ^I3226::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 15:16

Operator ID: USER1
Quant Time : 930203 17:59
Injected at: 930203 17:02



Data File: >I3226::A3 Quant Output File: ^I3226::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP59711;;;;1;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 15:16

Operator ID: USER1
Quant Time : 930203 17:59
Injected at: 930203 17:02

QUANT REPORT

Operator ID: USER1
Output File: ^I3227::A6
Data File: >I3227::A3
Name: ;;;SSTD020
Misc: 20PPMSTD HP5971I;;;LLW;1.0;;;I0288

Quant Rev: 7 Quant Time: 930205 14:32
Injected at: 930203 18:53
Dilution Factor: 1.00000
Instrument ID: **MSD

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930203 17:02

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.30	151.8	23966	40.00	ug	95
2)	2-Chlorophenol-d4	11.81	132.0	15630	20.49	ug	86
3)	2-Fluorophenol	9.25	111.8	15604	20.01	ug	82
4)	Phenol-d5	11.50	98.8	24225	21.26	ug	30
5)	Phenol	11.53	93.9	25388	21.74	ug	36
6)	bis(2-Chloroethyl)ether	11.74	92.7	25776	22.17	ug	66
7)	2-Chlorophenol	11.85	127.8	16728	20.94	ug	91
8)	1,3-Dichlorobenzene	12.21	145.8	17876	21.38	ug	98
9)	1,4-Dichlorobenzene	12.34	145.7	17935	21.48	ug	89
10)	1,2-Dichlorobenzene-d4	12.78	152.0	11930	22.13	ug	93
11)	1,2-Dichlorobenzene	12.81	145.7	17879	22.06	ug	95
12)	2-Methylphenol	13.01	107.8	16964	23.34	ug	77
13)	2,2'-oxybis(1-Chloropropane)	13.10	44.8	21795	22.53	ug	96
14)	4-Methylphenol	13.37	107.8	18049	21.57	ug	89
15)	N-Nitroso-di-n-propylamine	13.46	69.9	12652	22.33	ug	68
16)	Hexachloroethane	13.59	116.7	9140	21.72	ug	91
17)	*Naphthalene-d8	15.59	135.9	85327	40.00	ug	96
18)	Nitrobenzene-d5	13.77	81.8	17948	20.17	ug	73
19)	Nitrobenzene	13.82	76.8	17688	21.04	ug	82
20)	Isophorone	14.42	81.8	40043	21.87	ug	86
21)	2-Nitrophenol	14.64	138.9	12259	21.07	ug	71
22)	2,4-Dimethylphenol	14.73	106.8	15409	19.09	ug	99
23)	bis(2-Chloroethoxy)methane	15.01	92.8	27207	21.22	ug	82
24)	2,4-Dichlorophenol	15.23	161.7	14069	20.54	ug	95
25)	1,2,4-Trichlorobenzene	15.47	179.7	15508	20.81	ug	97
26)	Naphthalene	15.63	127.9	45167	21.76	ug	85
27)	4-Chloroaniline	15.83	126.8	9158	29.21	ug	89
28)	Hexachlorobutadiene	16.11	224.6	8037	21.15	ug	96
29)	4-Chloro-3-methylphenol	17.06	106.9	15608	20.99	ug	89
30)	2-Methylnaphthalene	17.45	141.9	32001	21.34	ug	96
31)	*Acenaphthene-d10	20.26	163.9	46570	40.00	ug	96
32)	Hexachlorocyclopentadiene	18.04	236.6	8878	21.29	ug	97
33)	2,4,6-Trichlorophenol	18.25	195.8	9926	20.06	ug	95
35)	2-Fluorobiphenyl	18.47	171.8	30861	21.47	ug	96
36)	2-Chloronaphthalene	18.73	161.8	27689	21.67	ug	95
38)	Dimethylphthalate	19.64	162.8	32806	20.73	ug	97
39)	Acenaphthylene	19.84	152.0	45048	22.18	ug	95
40)	2,6-Dinitrotoluene	19.82	164.8	9117	21.44	ug	77
42)	Acenaphthene	20.34	152.9	25540	21.89	ug	98
45)	Dibenzofuran	20.76	167.8	37494	21.09	ug	96

QUANT REPORT

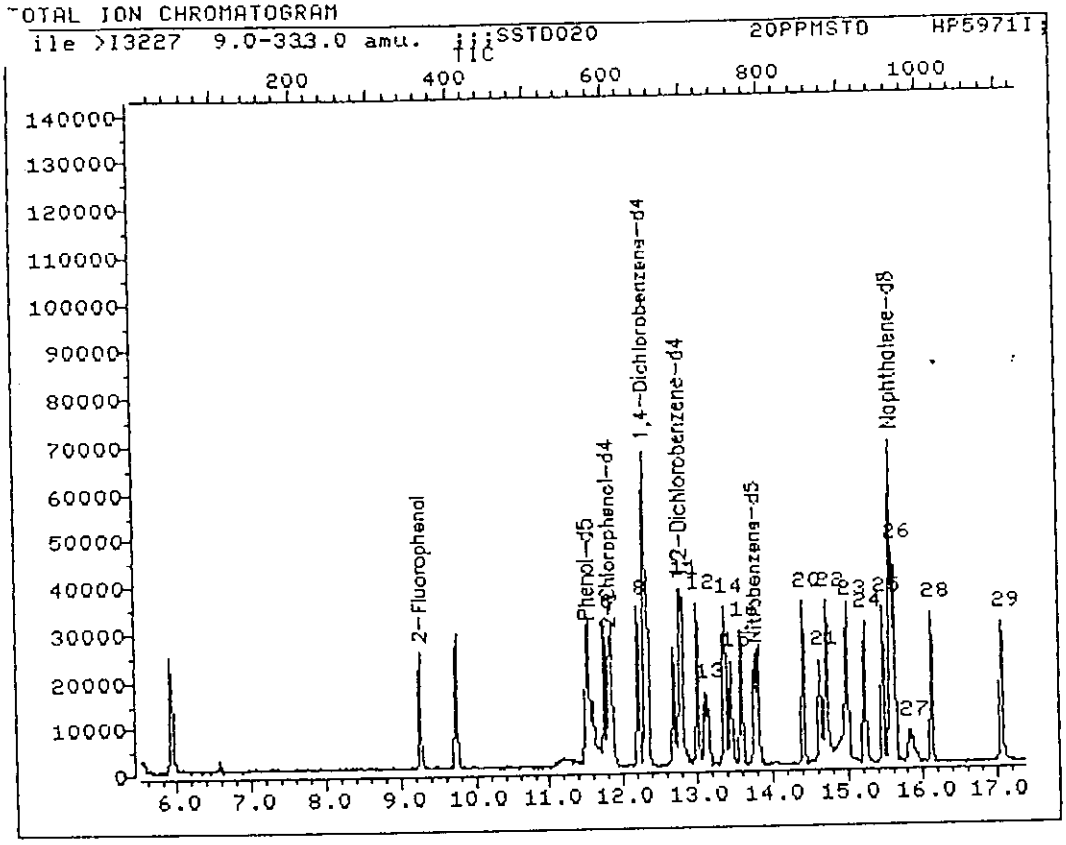
Operator ID: USER1 Quant Rev: 7 Quant Time: 930205 14:32
Output File: ^I3227::A6 Injected at: 930203 18:53
Data File: >I3227::A3 Dilution Factor: 1.00000
Name: ;;;SSTD020 Instrument ID: **MSD
Misc: 20PPMSTD HP5971I;;;LLW;1.0;;;I0288

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal. Time: 930203 17:02

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	2,4-Dinitrotoluene	20.85	164.8	11528	19.50	ug	77
47)	Diethylphthalate	21.51	148.8	34481	21.75	ug	97
48)	4-Chlorophenyl-phenylether	21.66	203.9	14326	23.05	ug	73
49)	Fluorene	21.68	165.9	28848	22.63	ug	98
51)	2,4,6-Tribromophenol	22.37	329.6	6674	21.98	ug	91
52)	*Phenanthrene-d10	24.17	187.9	80385	40.00	ug	98
54)	N-Nitrosodiphenylamine (1)	21.99	168.9	17324	23.17	ug	94
55)	4-Bromophenyl-phenylether	22.96	247.9	8036	20.75	ug	74
56)	Hexachlorobenzene	23.36	283.6	11468	20.68	ug	95
58)	Phenanthrene	24.23	177.9	39983	20.77	ug	96
59)	Carbazole	24.76	166.8	13889	33.95	ug	97
60)	Anthracene	24.35	177.9	43578	22.70	ug	98
61)	Di-n-butylphthalate	25.81	148.8	65099	22.92	ug	98
62)	Fluoranthene	27.40	201.9	44137	21.69	ug	98
63)	*Chrysene-d12	31.59	240.0	63010	40.00	ug	97
64)	Pyrene	28.00	201.9	44330	20.41	ug	99
65)	Terphenyl-d14	28.40	244.0	31273	21.51	ug	99
66)	Butylbenzylphthalate	29.79	148.8	26655	21.01	ug	99
67)	3,3'-Dichlorobenzidine	31.43	251.9	6477	22.66	ug	83
68)	Benzo(a)anthracene	31.51	228.0	36564	20.84	ug	95
69)	Chrysene	31.67	228.0	34574	23.62	ug	98
70)	bis(2-Ethylhexyl)phthalate	31.70	148.8	37327	23.27	ug	95
71)	*Perylene-d12	38.71	264.0	57803	40.00	ug	97
72)	Di-n-octylphthalate	34.32	148.9	61843	21.40	ug	93
73)	Benzo(b)fluoranthene	36.38	252.0	33847	20.78	ug	87
~~73)~~	~~Benzo(b)fluoranthene~~	~~36.50~~	~~252.0~~	~~30311~~	~~18.61~~	~~ug~~	~~98~~
~~74)~~	~~Benzo(k)fluoranthene~~	~~36.38~~	~~252.0~~	~~33847~~	~~23.92~~	~~ug~~	~~93~~
74)	Benzo(k)fluoranthene	36.50	252.0	30311	21.42	ug	97
75)	Benzo(a)pyrene	38.31	252.0	31837	21.02	ug	99
76)	Indeno(1,2,3-cd)pyrene	47.46	276.0	25917	19.33	ug	97
77)	Dibenz(a,h)anthracene	47.75	278.0	25959	22.56	ug	98
78)	Benzo(g,h,i)perylene	50.12	276.0	28395M	20.02	ug	74

AMC 2/4/93

* Compound is ISTD

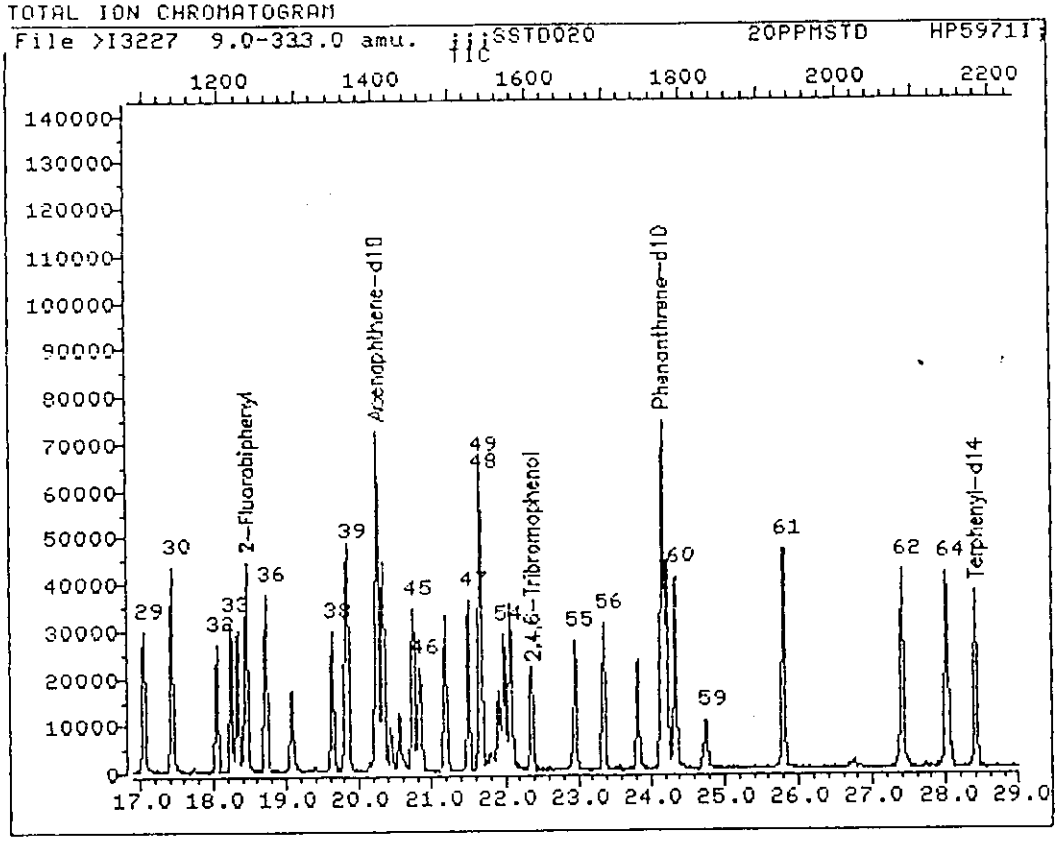


Data File: >I3227::A3 Quant Output File: ^I3227::A6
Name: ;;;SSTD020 Instrument ID: **MSD
Misc: 20PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930205 14:32
Injected at: 930203 18:53

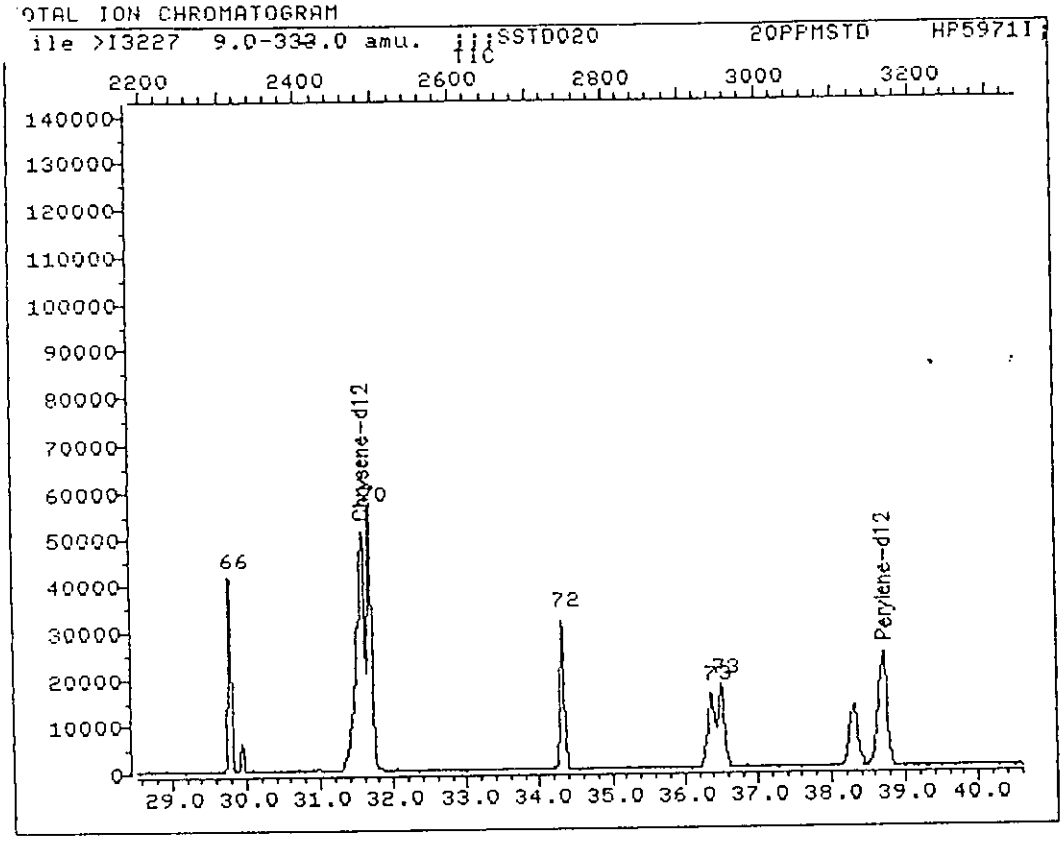
TOTAL ION CHROMATOGRAM



Data File: >I3227::A3 Quant Output File: ^I3227::A6
Name: ;;;SSTD020 Instrument ID: **MSD
Misc: 20PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

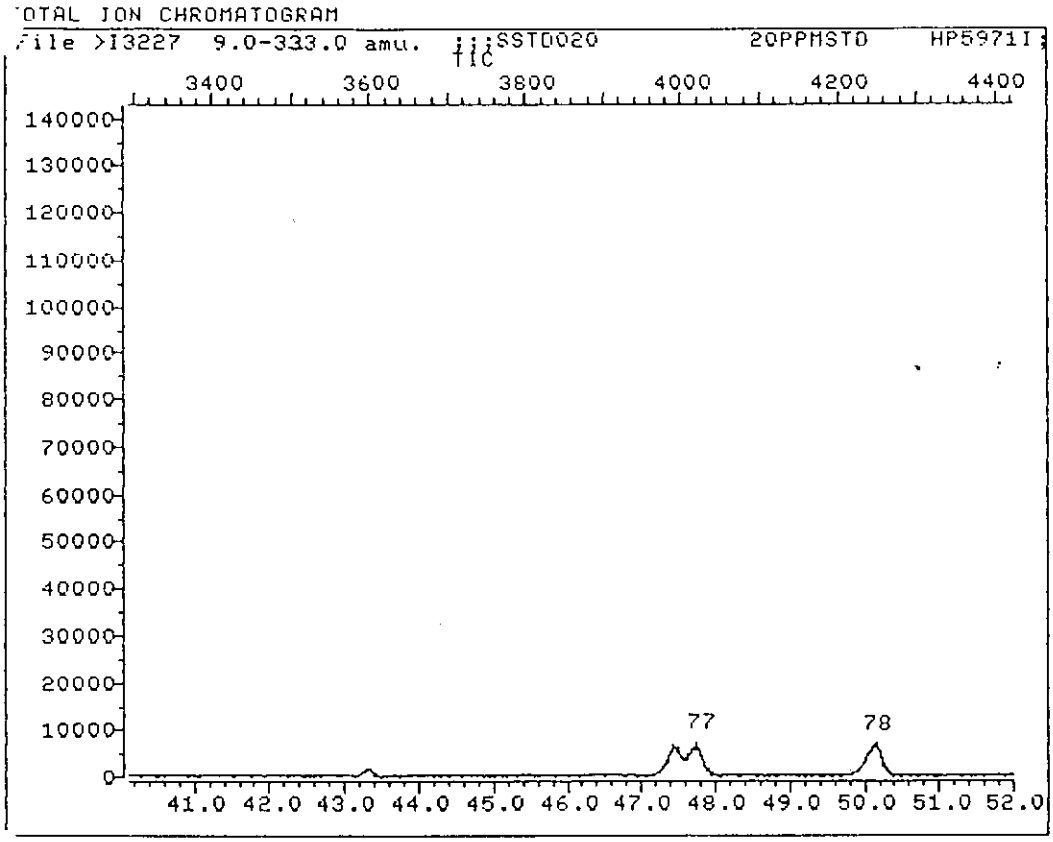
Operator ID: USER1
Quant Time : 930205 14:32
Injected at: 930203 18:53



Data File: >I3227::A3 Quant Output File: ^I3227::A6
Name: ;;;SSTD020 Instrument ID: **MSD
Misc: 20PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930205 14:32
Injected at: 930203 18:53



Data File: >I3227::A3 Quant Output File: ^I3227::A6
Name: ;;;SSTD020 Instrument ID: **MSD
Misc: 20PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930205 14:32
Injected at: 930203 18:53

QUANT REPORT

Operator ID: USER1 Quant Rev: 7 Quant Time: 930205 14:35
Output File: ^I3228::A6 Injected at: 930203 19:56
Data File: >I3228::A3 Dilution Factor: 1.00000
Name: ;;;SSTD080 Instrument ID: **MSD
Misc: 80PPMSTD HP5971I;;;LLW;1.0;;;I0288

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.30	151.8	22316	40.00	ug	94
2)	2-Chlorophenol-d4	11.82	132.0	56890	80.08	ug	82
3)	2-Fluorophenol	9.26	111.8	59545	82.02	ug	73
4)	Phenol-d5	11.53	98.8	82887	78.13	ug	31
5)	Phenol	11.57	93.9	81436	74.90	ug	46
6)	bis(2-Chloroethyl)ether	11.77	92.7	81207	75.00	ug	64
7)	2-Chlorophenol	11.86	127.8	58483	78.62	ug	87
8)	1,3-Dichlorobenzene	12.21	145.8	61671	79.22	ug	98
9)	1,4-Dichlorobenzene	12.35	145.7	60939	78.40	ug	92
)	1,2-Dichlorobenzene-d4	12.78	152.0	39083	77.84	ug	94
11)	1,2-Dichlorobenzene	12.82	145.7	57262	75.88	ug	98
12)	2-Methylphenol	13.02	107.8	55901	82.59	ug	76
13)	2,2'-oxybis(1-Chloropropane)	13.12	44.8	68696	76.27	ug	86
14)	4-Methylphenol	13.40	107.8	58098	74.58	ug	92
15)	N-Nitroso-di-n-propylamine	13.50	69.9	40861	77.44	ug	71
16)	Hexachloroethane	13.59	116.7	31756	81.04	ug	99
17)	*Naphthalene-d8	15.58	135.9	78181	40.00	ug	98
18)	Nitrobenzene-d5	13.79	81.8	62957	77.23	ug	71
19)	Nitrobenzene	13.83	76.8	55574	72.16	ug	80
20)	Isophorone	14.44	81.8	135360	80.70	ug	89
21)	2-Nitrophenol	14.64	138.9	39852	74.75	ug	73
22)	2,4-Dimethylphenol	14.75	106.8	58180	78.66	ug	98
23)	bis(2-Chloroethoxy)methane	15.01	92.8	90959	77.44	ug	79
24)	2,4-Dichlorophenol	15.25	161.7	49387	78.68	ug	97
25)	1,2,4-Trichlorobenzene	15.48	179.7	54233	79.43	ug	98
26)	Naphthalene	15.64	127.9	150453	79.09	ug	81
27)	4-Chloroaniline	15.89	126.8	15776	54.92	ug	89
28)	Hexachlorobutadiene	16.11	224.6	27844	79.95	ug	96
29)	4-Chloro-3-methylphenol	17.07	106.9	54477	79.94	ug	87
30)	2-Methylnaphthalene	17.45	141.9	105439	76.73	ug	99
31)	*Acenaphthene-d10	20.26	163.9	42964	40.00	ug	96
32)	Hexachlorocyclopentadiene	18.05	236.6	32264	83.86	ug	98
33)	2,4,6-Trichlorophenol	18.26	195.8	35369	77.47	ug	97
34)	2,4,5-Trichlorophenol	18.34	195.8	37377	81.08	ug	95
5)	2-Fluorobiphenyl	18.47	171.8	103350	77.93	ug	95
6)	2-Chloronaphthalene	18.73	161.8	92230	78.25	ug	98
37)	2-Nitroaniline	19.10	64.9	32663	84.98	ug	62
38)	Dimethylphthalate	19.66	162.8	116665	79.92	ug	97
39)	Acenaphthylene	19.86	152.0	141517	75.53	ug	98
40)	2,6-Dinitrotoluene	19.85	164.8	29342	74.78	ug	83

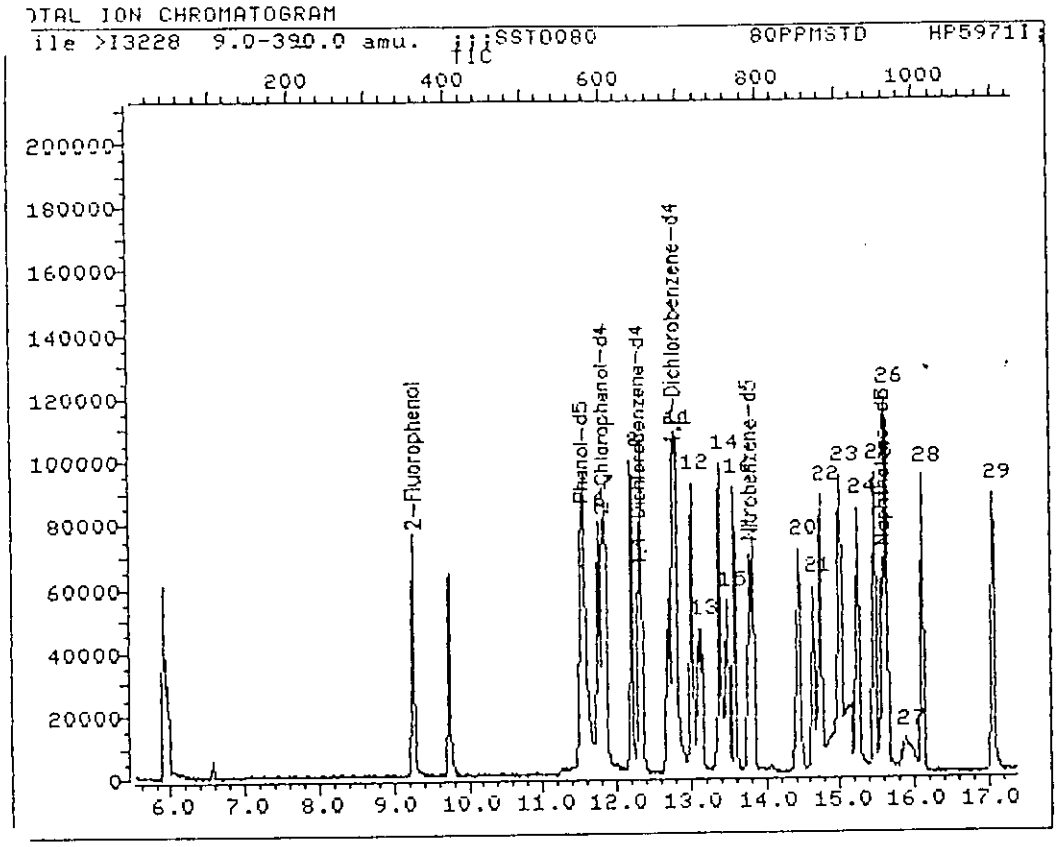
QUANT REPORT

Operator ID: USER1 Quant Rev: 7 Quant Time: 930205 14:35
Output File: ^I3228::A6 Injected at: 930203 19:56
Data File: >I3228::A3 Dilution Factor: 1.00000
Name: ;;;SSTD080 Instrument ID: **MSD
Misc: 80PPMSTD HP5971I;;;LLW;1.0;;;I0288

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal.Time: 930203 17:02

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	3-Nitroaniline	20.16	137.8	3812	113.72	ug	71
42)	Acenaphthene	20.35	152.9	84273	78.28	ug	99
43)	2,4-Dinitrophenol	20.46	183.8	19815	95.27	ug	86
44)	4-Nitrophenol	20.61	108.8	12638	82.90	ug	87
45)	Dibenzofuran	20.77	167.8	125598	76.56	ug	97
46)	2,4-Dinitrotoluene	20.88	164.8	43684	80.11	ug	74
47)	Diethylphthalate	21.54	148.8	114862	78.53	ug	97
48)	4-Chlorophenyl-phenylether	21.67	203.9	41937	73.14	ug	81
49)	Fluorene	21.69	165.9	82084	69.81	ug	98
0)	4-Nitroaniline	21.86	137.9	13833	92.06	ug	79
1)	2,4,6-Tribromophenol	22.38	329.6	22545	80.47	ug	95
52)	*Phenanthrene-d10	24.17	187.9	72767	40.00	ug	98
53)	4,6-Dinitro-2-methylphenol	21.96	197.9	26993	87.09	ug	77
54)	N-Nitrosodiphenylamine (1)	22.01	168.9	51231	75.71	ug	96
55)	4-Bromophenyl-phenylether	22.96	247.9	27846	79.42	ug	85
56)	Hexachlorobenzene	23.37	283.6	40067	79.81	ug	99
57)	Pentachlorophenol	23.83	265.6	27954	83.28	ug	97
58)	Phenanthrene	24.24	177.9	139181	79.88	ug	97
59)	Carbazole	24.76	166.8	30963	83.61	ug	97
60)	Anthracene	24.36	177.9	139708	80.38	ug	97
61)	Di-n-butylphthalate	25.81	148.8	202282	78.68	ug	98
62)	Fluoranthene	27.42	201.9	153515	83.35	ug	98
63)	*Chrysene-d12	31.61	240.0	56767	40.00	ug	98
64)	Pyrene	28.02	201.9	150977	77.16	ug	99
65)	Terphenyl-d14	28.42	244.0	100768	76.93	ug	98
66)	Butylbenzylphthalate	29.80	148.8	93507	81.79	ug	90
67)	3,3'-Dichlorobenzidine	31.46	251.9	21675	84.16	ug	82
68)	Benzo(a)anthracene	31.53	228.0	129949	82.23	ug	99
69)	Chrysene	31.71	228.0	96963	73.52	ug	98
70)	bis(2-Ethylhexyl)phthalate	31.72	148.8	103886	71.90	ug	92
71)	*Perylene-d12	38.74	264.0	54173	40.00	ug	97
72)	Di-n-octylphthalate	34.36	148.9	221910	81.92	ug	94
73)	Benzo(b)fluoranthene	36.47	252.0	132772	86.99	ug	98
~~73)~~	~~Benzo(b)fluoranthene~~	~~36.60~~	~~252.0~~	~~100201~~	~~65.65~~	~~ug~~	~~99~~
~~74)~~	~~Benzo(k)fluoranthene~~	~~36.47~~	~~252.0~~	~~132772~~	~~100.11~~	~~ug~~	~~98~~
4)	Benzo(k)fluoranthene	36.60	252.0	100201	75.55	ug	99
75)	Benzo(a)pyrene	38.40	252.0	116031	81.75	ug	99
76)	Indeno(1,2,3-cd)pyrene	47.63	276.0	108695	86.49	ug	98
77)	Dibenz(a,h)anthracene	47.97	278.0	95579	88.62	ug	98
78)	Benzo(g,h,i)perylene	50.42	276.0	107447	80.84	ug	77

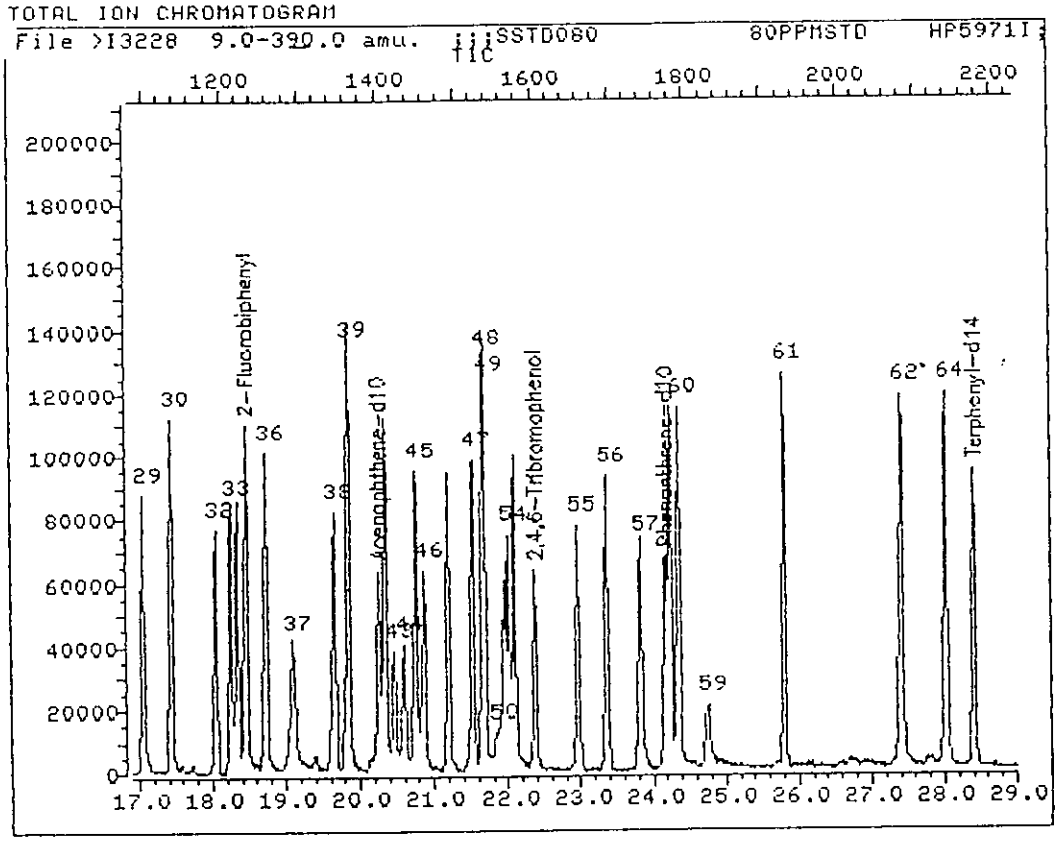
q/mc 2/9/93



Data File: >I3228::A3 Quant Output File: ^I3228::A6
Name: ;;;SSTD080 Instrument ID: **MSD
Misc: 80PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

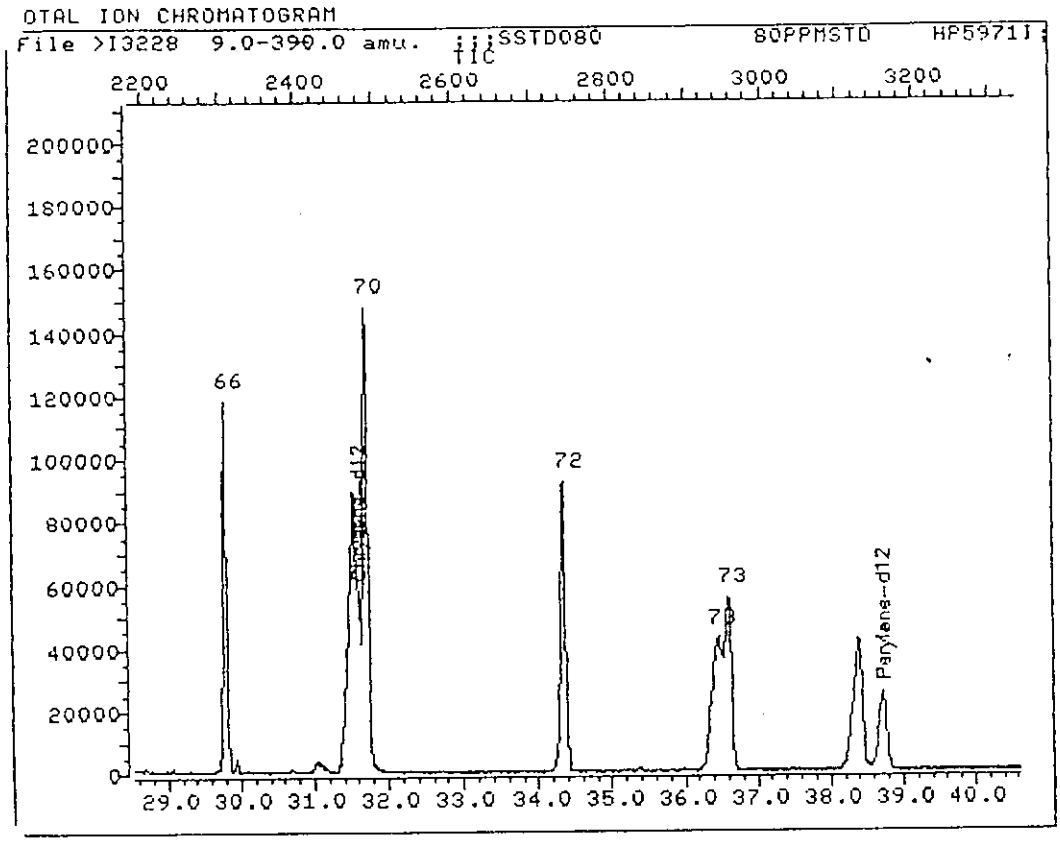
Operator ID: USER1
Quant Time : 930205 14:35
Injected at: 930203 19:56



Data File: >I3228::A3 Quant Output File: ^I3228::A6
Name: ;;;SSTD080 Instrument ID: **MSD
Misc: 80PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

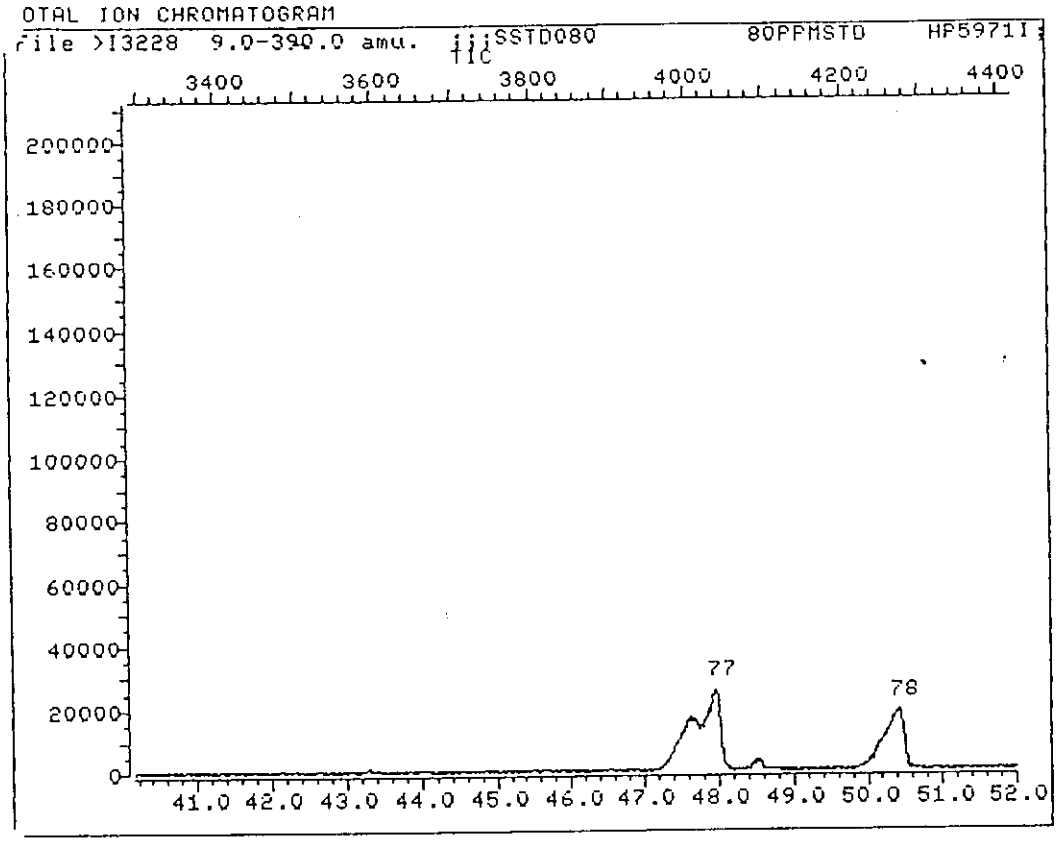
Operator ID: USER1
Quant Time : 930205 14:35
Injected at: 930203 19:56



Data File: >I3228::A3 Quant Output File: ^I3228::A6
Name: ;;;SSTD080 Instrument ID: **MSD
Misc: 80PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930205 14:35
Injected at: 930203 19:56



Data File: >I3228::A3 Quant Output File: ^I3228::A6
Name: ;;;SSTD080 Instrument ID: **MSD
Misc: 80PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930205 14:35
Injected at: 930203 19:56

QUANT REPORT

Operator ID: USER1 Quant Rev: 7 Quant Time: 930203 21:56
Output File: ^I3229::A6 Injected at: 930203 20:59
Data File: >I3229::A3 Dilution Factor: 1.00000
Name: ;;;SSTD120 Instrument ID: **MSD
Misc: 120PPMSTD HP5971I;;;LLW;1.0;;;I0288

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

QMC 2/9/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.30	151.8	24209	40.00	ug	94
2)	2-Chlorophenol-d4	11.84	132.0	85675	111.17	ug	80
3)	2-Fluorophenol	9.27	111.8	92459	117.39	ug	73
4)	Phenol-d5	11.56	98.8	123146	107.01	ug	34
5)	Phenol	11.60	93.9	110232	93.45	ug	58
6)	bis(2-Chloroethyl)ether	11.78	92.7	114132M	97.16	ug	13
7)	2-Chlorophenol	11.88	127.8	87024	107.85	ug	83
8)	1,3-Dichlorobenzene	12.22	145.8	89852	106.40	ug	96
9)	1,4-Dichlorobenzene	12.36	145.7	87762	104.08	ug	90
10)	1,2-Dichlorobenzene-d4	12.79	152.0	54949	100.89	ug	95
11)	1,2-Dichlorobenzene	12.83	145.7	77413	94.56	ug	96
12)	2-Methylphenol	13.04	107.8	86290	117.52	ug	78
13)	2,2'-oxybis(1-Chloropropane)	13.12	44.8	93858	96.05	ug	77
14)	4-Methylphenol	13.43	107.8	91057	107.75	ug	92
15)	N-Nitroso-di-n-propylamine	13.54	69.9	63569	111.06	ug	69
16)	Hexachloroethane	13.59	116.7	46203	108.69	ug	98
17)	*Naphthalene-d8	15.60	135.9	81202	40.00	ug	97
18)	Nitrobenzene-d5	13.80	81.8	95193	112.43	ug	72
19)	Nitrobenzene	13.85	76.8	82618	103.28	ug	80
20)	Isophorone	14.49	81.8	209358	120.18	ug	89
21)	2-Nitrophenol	14.67	138.9	59205	106.92	ug	72
22)	2,4-Dimethylphenol	14.77	106.8	91255	118.79	ug	99
23)	bis(2-Chloroethoxy)methane	15.04	92.8	139391	114.25	ug	77
24)	2,4-Dichlorophenol	15.27	161.7	77428	118.76	ug	98
25)	1,2,4-Trichlorobenzene	15.49	179.7	82534	116.38	ug	97
26)	Naphthalene	15.65	127.9	217247	109.96	ug	78
27)	4-Chloroaniline	15.86	126.8	30339	101.68	ug	82
28)	Hexachlorobutadiene	16.11	224.6	41935	115.94	ug	94
29)	4-Chloro-3-methylphenol	17.08	106.9	86093	121.64	ug	88
30)	2-Methylnaphthalene	17.46	141.9	145636	102.04	ug	95
31)	*Acenaphthene-d10	20.27	163.9	44118	40.00	ug	95
32)	Hexachlorocyclopentadiene	18.05	236.6	51413	130.13	ug	99
33)	2,4,6-Trichlorophenol	18.27	195.8	58965	125.78	ug	98
34)	2,4,5-Trichlorophenol	18.36	195.8	56765	119.92	ug	95
35)	2-Fluorobiphenyl	18.48	171.8	152651	112.10	ug	96
36)	2-Chloronaphthalene	18.75	161.8	138162	114.16	ug	97
37)	2-Nitroaniline	19.12	64.9	52687	133.49	ug	53
38)	Dimethylphthalate	19.69	162.8	178944	119.37	ug	97
39)	Acenaphthylene	19.88	152.0	188967	98.22	ug	97
40)	2,6-Dinitrotoluene	19.86	164.8	41218	102.30	ug	94

QUANT REPORT

Operator ID: USER1
Output File: ^I3229::A6
Data File: >I3229::A3
Name: ;;;SSTD120
Misc: 120PPMSTD HP5971I;;;LLW;1.0;;;I0288

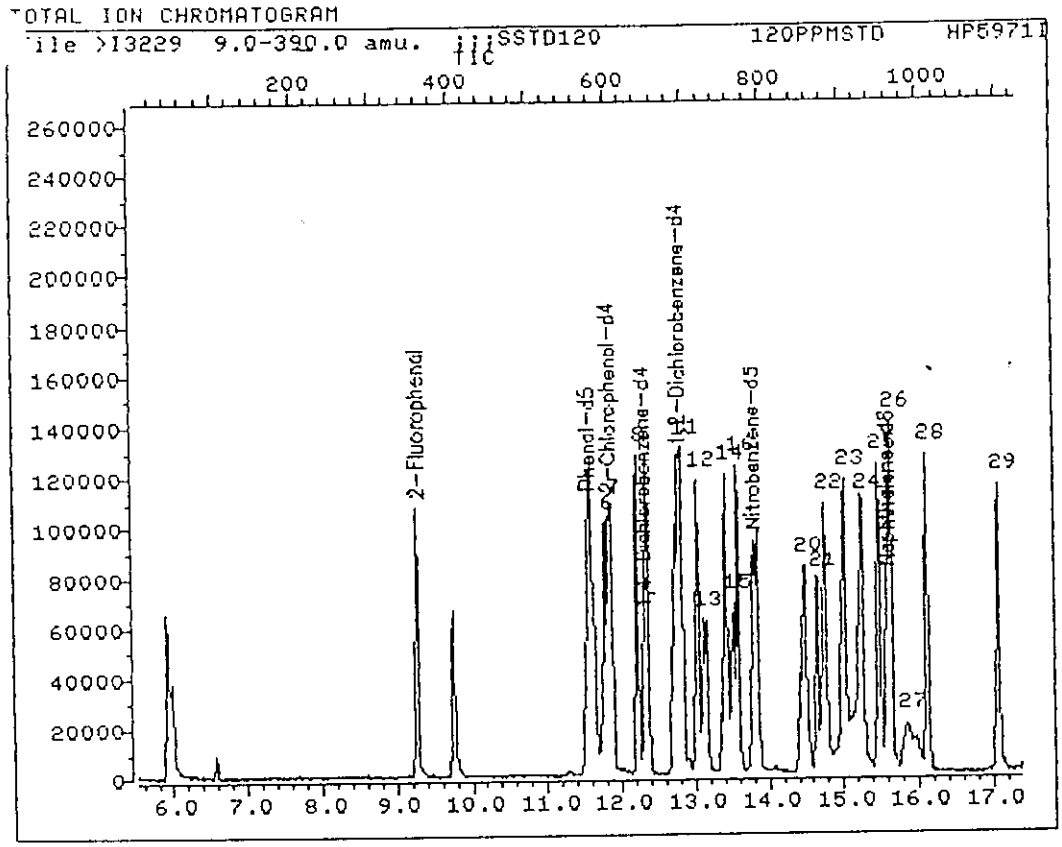
Quant Rev: 7 Quant Time: 930203 21:56
Injected at: 930203 20:59
Dilution Factor: 1.00000
Instrument ID: **MSD

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930203 17:02

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	3-Nitroaniline	20.17	137.8	4905	142.49	ug	64
42)	Acenaphthene	20.36	152.9	123990	112.16	ug	99
43)	2,4-Dinitrophenol	20.49	183.8	34756	162.74	ug	86
44)	4-Nitrophenol	20.64	108.8	17308	110.57	ug	90
45)	Dibenzofuran	20.78	167.8	187732	111.45	ug	96
46)	2,4-Dinitrotoluene	20.91	164.8	69562	124.23	ug	72
47)	Diethylphthalate	21.55	148.8	173373	115.44	ug	96
48)	4-Chlorophenyl-phenylether	21.69	203.9	57492	97.64	ug	90
49)	Fluorene	21.71	165.9	115687	95.81	ug	98
50)	4-Nitroaniline	21.89	137.9	24766	160.51	ug	77
51)	2,4,6-Tribromophenol	22.39	329.6	33297	115.74	ug	94
52)	*Phenanthrene-d10	24.18	187.9	74173	40.00	ug	98
53)	4,6-Dinitro-2-methylphenol	21.99	197.9	44151	139.75	ug	81
54)	N-Nitrosodiphenylamine (1)	22.04	168.9	79753	115.62	ug	97
55)	4-Bromophenyl-phenylether	22.97	247.9	42210	118.11	ug	89
56)	Hexachlorobenzene	23.38	283.6	58261	113.85	ug	99
57)	Pentachlorophenol	23.83	265.6	42919	125.43	ug	97
58)	Phenanthrene	24.26	177.9	205836	115.90	ug	97
59)	Carbazole	24.76	166.8	44912	118.98	ug	97
60)	Anthracene	24.38	177.9	202570	114.34	ug	98
61)	Di-n-butylphthalate	25.82	148.8	289680	110.54	ug	97
62)	Fluoranthene	27.44	201.9	225184	119.95	ug	98
63)	*Chrysene-d12	31.63	240.0	59123	40.00	ug	97
64)	Pyrene	28.04	201.9	225714	110.76	ug	99
65)	Terphenyl-d14	28.43	244.0	145288	106.50	ug	99
66)	Butylbenzylphthalate	29.81	148.8	140257	117.80	ug	90
67)	3,3'-Dichlorobenzidine	31.48	251.9	41149	153.41	ug	84
68)	Benzo(a)anthracene	31.57	228.0	203087	123.38	ug	99
69)	Chrysene	31.76	228.0	140087	101.99	ug	98
70)	bis(2-Ethylhexyl)phthalate	31.74	148.8	143891	95.62	ug	93
71)	*Perylene-d12	38.77	264.0	56563	40.00	ug	99
72)	Di-n-octylphthalate	34.37	148.9	348003	123.05	ug	95
73)	Benzo(b)fluoranthene	36.56	252.0	254972	159.99	ug	99
~~73)~~	~~Benzo(b)fluoranthene~~	~~36.69~~	~~252.0~~	~~137927~~	~~86.54~~	~~ug~~	~~98~~
~~74)~~	~~Benzo(k)fluoranthene~~	~~36.56~~	~~252.0~~	~~254972~~	~~184.13~~	~~ug~~	~~99~~
4)	Benzo(k)fluoranthene	36.69	252.0	137927	99.60	ug	98
75)	Benzo(a)pyrene	38.47	252.0	187601	126.59	ug	97
76)	Indeno(1,2,3-cd)pyrene	47.81	276.0	171209M	130.48	ug	98
77)	Dibenz(a,h)anthracene	48.11	278.0	152251	135.20	ug	92
78)	Benzo(g,h,i)perylene	50.60	276.0	164579	118.59	ug	77

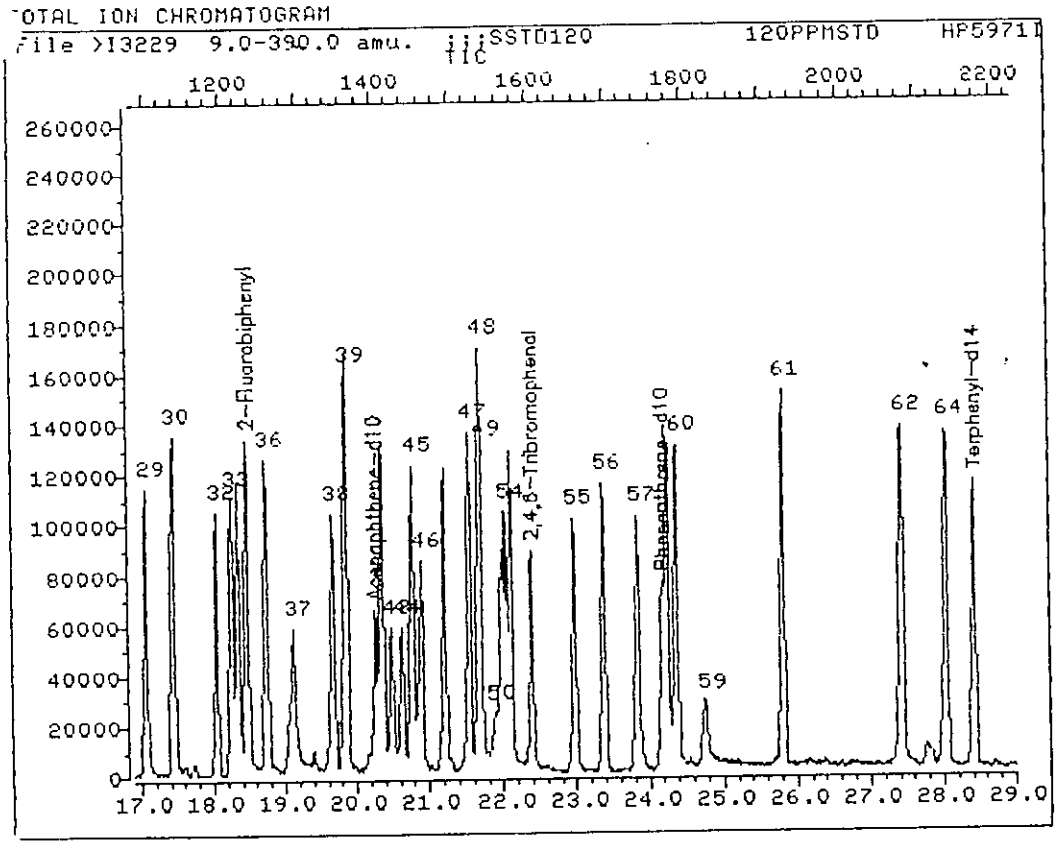
QMC 2/9/93



Data File: >I3229::A3 Quant Output File: ^I3229::A6
Name: ;;;SSTD120 Instrument ID: **MSD
Misc: 120PPMSTD HP59711;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

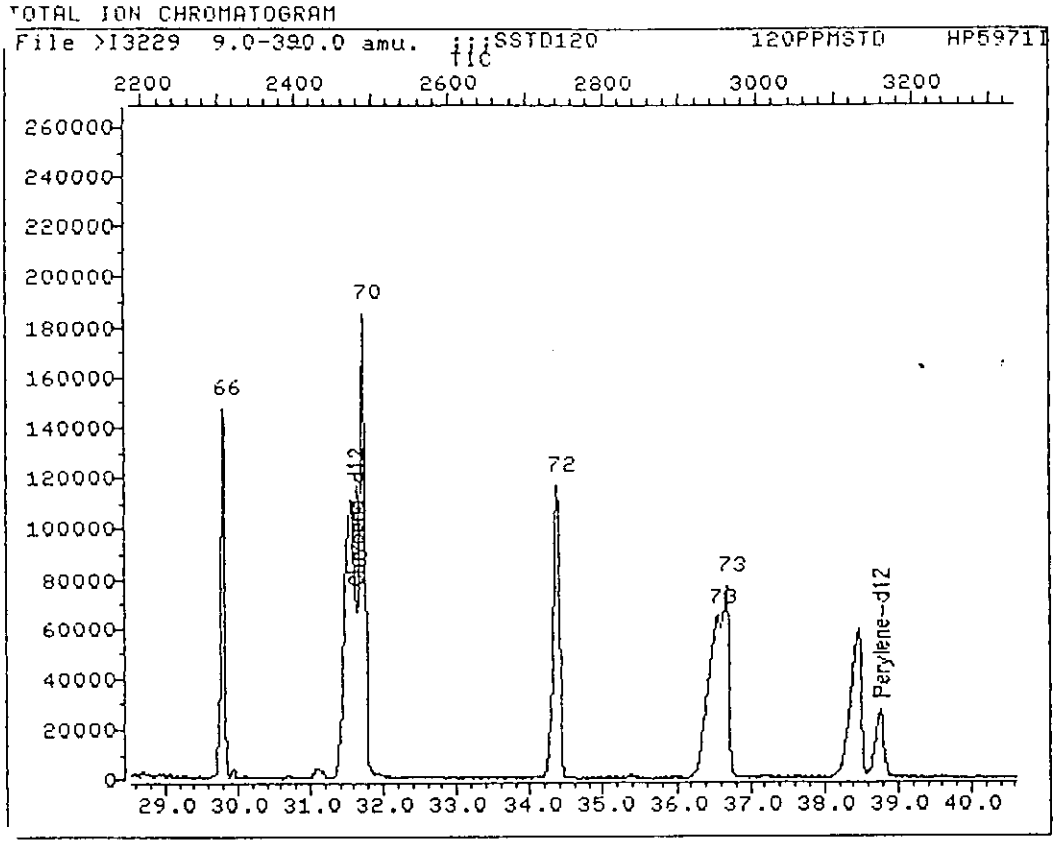
Operator ID: USER1
Quant Time : 930203 21:56
Injected at: 930203 20:59



Data File: >I3229::A3 Quant Output File: ^I3229::A6
Name: ;;;SSTD120 Instrument ID: **MSD
Misc: 120PPMSTD HP59711;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

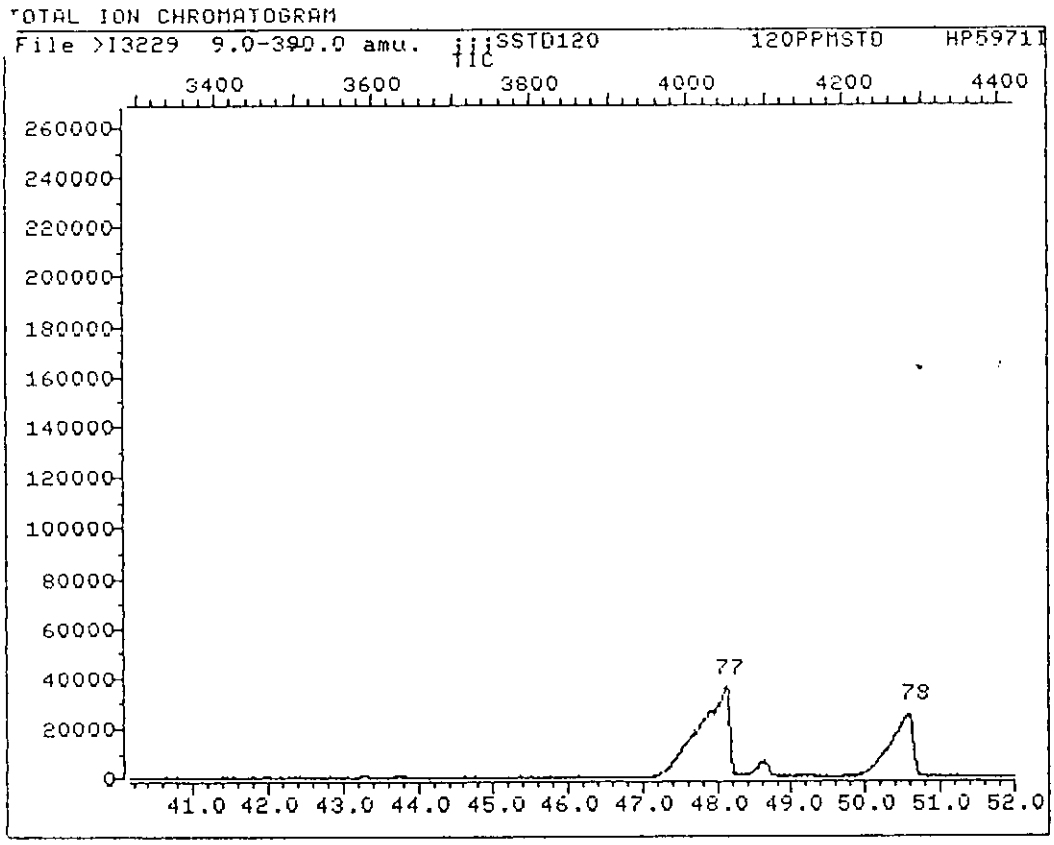
Operator ID: USER1
Quant Time : 930203 21:56
Injected at: 930203 20:59



Data File: >I3229::A3 Quant Output File: ^I3229::A6
Name: ;;;SSTD120 Instrument ID: **MSD
Misc: 120PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930203 21:56
Injected at: 930203 20:59



Data File: >I3229::A3 Quant Output File: ^I3229::A6
Name: ;;;SSTD120 Instrument ID: **MSD
Misc: 120PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930203 21:56
Injected at: 930203 20:59

0 0711

QUANT REPORT

Operator ID: USER1
Output File: ^I3230::A6
Data File: >I3230::A3
Name: ;;;SSTD160
Misc: 160PPMSTD HP5971I;;;LLW;1.0;;;I0288

Quant Rev: 7
Quant Time: 930203 23:00
Injected at: 930203 22:02
Dilution Factor: 1.00000
Instrument ID: **MSD

ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930203 17:02

Qmc 2/9/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.33	151.8	29566	40.00	ug	94
2)	2-Chlorophenol-d4	11.87	132.0	114804	121.97	ug	83
3)	2-Fluorophenol	9.31	111.8	146137	151.93	ug	74
4)	Phenol-d5	11.60	98.8	177361	126.19	ug	42
5)	Phenol	11.65	93.9	152551	105.90	ug	70
6)	bis(2-Chloroethyl)ether	11.69	92.7	166863M	116.31	ug	62
7)	2-Chlorophenol	11.92	127.8	124313	126.14	ug	87
8)	1,3-Dichlorobenzene	12.24	145.8	130038	126.09	ug	94
9)	1,4-Dichlorobenzene	12.38	145.7	119274	115.82	ug	86
10)	1,2-Dichlorobenzene-d4	12.81	152.0	66660	100.21	ug	98
11)	1,2-Dichlorobenzene	12.86	145.7	99010	99.03	ug	92
12)	2-Methylphenol	13.07	107.8	133171	148.51	ug	81
13)	2,2'-oxybis(1-Chloropropane)	13.14	44.8	120425	100.91	ug	60
14)	4-Methylphenol	13.49	107.8	169134M	163.88	ug	92
15)	N-Nitroso-di-n-propylamine	13.61	69.9	76122	108.90	ug	93
16)	Hexachloroethane	13.61	116.7	56983	109.76	ug	96
17)	*Naphthalene-d8	15.61	135.9	102531	40.00	ug	96
18)	Nitrobenzene-d5	13.85	81.8	153708	143.77	ug	73
19)	Nitrobenzene	13.90	76.8	127281	126.01	ug	80
20)	Isophorone	14.54	81.8	281402	127.93	ug	88
21)	2-Nitrophenol	14.69	138.9	99909	142.89	ug	82
22)	2,4-Dimethylphenol	14.82	106.8	157574	162.46	ug	87
23)	bis(2-Chloroethoxy)methane	15.07	92.8	155381	100.87	ug	56
24)	2,4-Dichlorophenol	15.31	161.7	122610	148.94	ug	98
25)	1,2,4-Trichlorobenzene	15.51	179.7	126268	141.01	ug	96
26)	Naphthalene	15.68	127.9	313077	125.50	ug	79
27)	4-Chloroaniline	15.87	126.8	160863	426.99	ug	84
28)	Hexachlorobutadiene	16.13	224.6	68906	150.87	ug	98
29)	4-Chloro-3-methylphenol	17.12	106.9	146417	163.83	ug	85
30)	2-Methylnaphthalene	17.49	141.9	223474	124.01	ug	85
31)	*Acenaphthene-d10	20.30	163.9	58922	40.00	ug	94
32)	Hexachlorocyclopentadiene	18.07	236.6	83444	158.14	ug	98
33)	2,4,6-Trichlorophenol	18.30	195.8	111092	177.44	ug	98
34)	2,4,5-Trichlorophenol	18.40	195.8	80958	128.06	ug	98
35)	2-Fluorobiphenyl	18.51	171.8	231694	127.40	ug	97
36)	2-Chloronaphthalene	18.78	161.8	214422	132.66	ug	89
37)	2-Nitroaniline	19.16	64.9	94401	179.08	ug	53
38)	Dimethylphthalate	19.74	162.8	321467	160.57	ug	97
39)	Acenaphthylene	19.90	152.0	286442	111.48	ug	98
40)	2,6-Dinitrotoluene	19.93	164.8	55230	102.63	ug	70

QUANT REPORT

Operator ID: USER1
Output File: ^I3230::A6
Data File: >I3230::A3
Name: ;;;SSTD160
Misc: 160PPMSTD HP5971I;;;LLW;1.0;;;I0288

Quant Rev: 7
Quant Time: 930203 23:00
Injected at: 930203 22:02
Dilution Factor: 1.00000
Instrument ID: **MSD

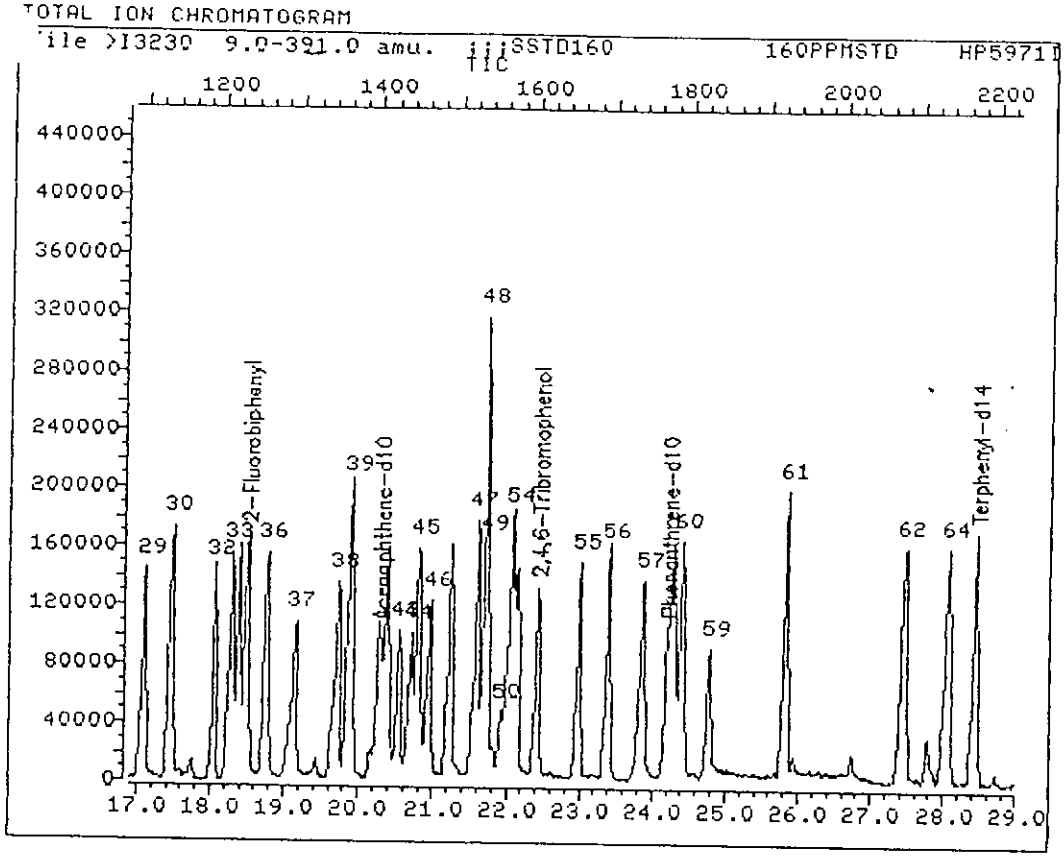
ID File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52
Last Qcal Time: 930203 17:02

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	3-Nitroaniline	20.27	137.8	44319	964.02	ug	51
42)	Acenaphthene	20.41	152.9	189198	128.14	ug	97
43)	2,4-Dinitrophenol	20.55	183.8	67699	237.35	ug	89
44)	4-Nitrophenol	20.72	108.8	37250	178.17	ug	75
45)	Dibenzofuran	20.82	167.8	292259	129.91	ug	82
46)	2,4-Dinitrotoluene	20.98	164.8	127956M	171.11	ug	50
47)	Diethylphthalate	21.61	148.8	287421	143.29	ug	93
48)	4-Chlorophenyl-phenylether	21.73	203.9	101819	129.48	ug	90
49)	Fluorene	21.75	165.9	202560	125.61	ug	98
)	4-Nitroaniline	21.93	137.9	45265	219.66	ug	72
.1)	2,4,6-Tribromophenol	22.43	329.6	57651	150.04	ug	94
52)	*Phenanthrene-d10	24.22	187.9	105749	40.00	ug	99
53)	4,6-Dinitro-2-methylphenol	22.08	197.9	58038	128.85	ug	96
54)	N-Nitrosodiphenylamine (1)	22.10	168.9	125932M	128.06	ug	97
55)	4-Bromophenyl-phenylether	23.00	247.9	69587	136.57	ug	98
56)	Hexachlorobenzene	23.42	283.6	96722	132.57	ug	99
57)	Pentachlorophenol	23.88	265.6	76355	156.52	ug	96
58)	Phenanthrene	24.30	177.9	343972	135.85	ug	96
59)	Carbazole	24.79	166.8	147073M	273.29	ug	96
60)	Anthracene	24.43	177.9	295212	116.88	ug	98
61)	Di-n-butylphthalate	25.85	148.8	463863	124.15	ug	97
62)	Fluoranthene	27.48	201.9	371563	138.82	ug	99
63)	*Chrysene-d12	31.68	240.0	65851	40.00	ug	98
64)	Pyrene	28.08	201.9	368724	162.45	ug	98
65)	Terphenyl-d14	28.46	244.0	248511	163.55	ug	98
66)	Butylbenzylphthalate	29.84	148.8	222325	167.65	ug	87
67)	3,3'-Dichlorobenzidine	31.56	251.9	78893	264.07	ug	87
68)	Benzo(a)anthracene	31.62	228.0	309789	168.98	ug	97
69)	Chrysene	31.82	228.0	241098	157.59	ug	99
70)	bis(2-Ethylhexyl)phthalate	31.77	148.8	261300	155.90	ug	89
71)	*Perylene-d12	38.88	264.0	80584	40.00	ug	95
72)	Di-n-octylphthalate	~~34.42~~	148.9	574471	~~142.57~~	ug	94
~~73)~~	~~Benzo(b)fluoranthene~~	~~36.70~~	~~252.0~~	~~503082~~	~~221.92~~	ug	~~98~~
~~74)~~	~~Benzo(k)fluoranthene~~	~~36.84~~	~~252.0~~	~~208353M~~	~~101.56~~	ug	~~98~~
75)	Benzo(a)pyrene	38.61	252.0	353583	167.48	ug	98
;)	Indeno(1,2,3-cd)pyrene	48.18	276.0	342315M	183.11	ug	96
77)	Dibenz(a,h)anthracene	48.40	278.0	281468	175.45	ug	98
78)	Benzo(g,h,i)perylene	50.88	276.0	301536	152.50	ug	78

2/19/93

* Compound is ISTD

2/24/93

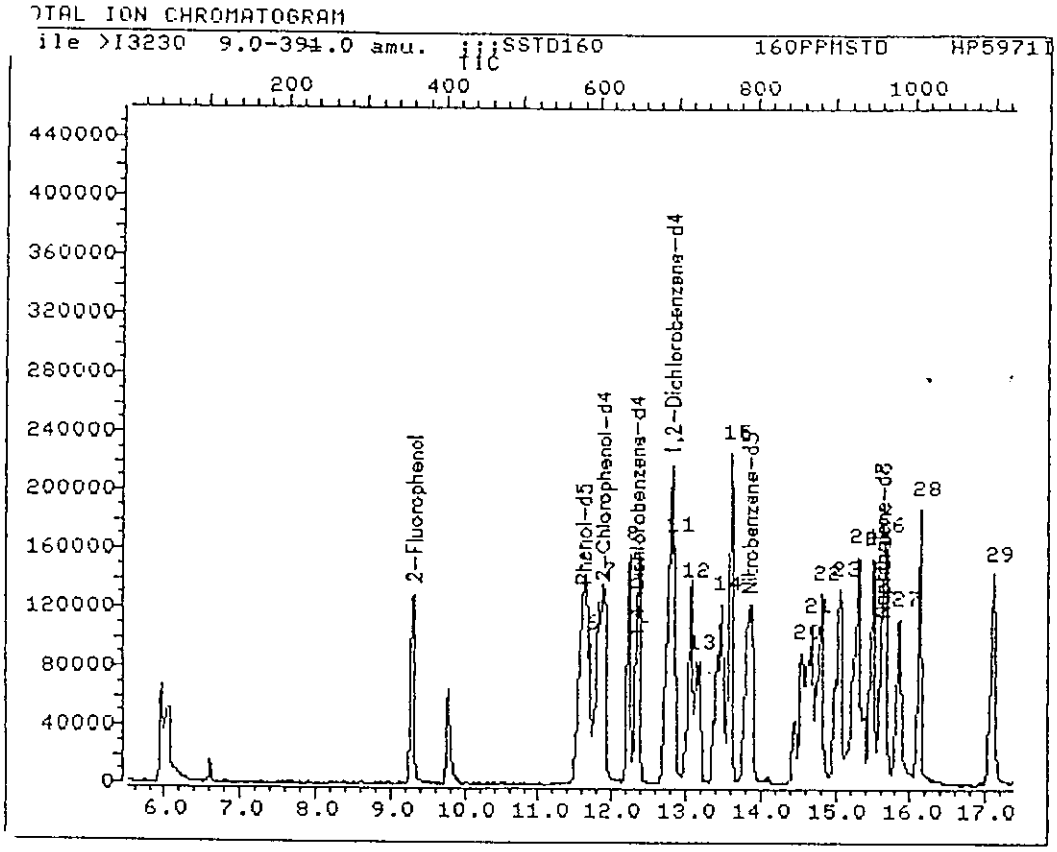


Data File: >I3230::A3 Quant Output File: ^I3230::A6
Name: ;;;SSTD160 Instrument ID: **MSD
Misc: 160PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930203 23:00
Injected at: 930203 22:02

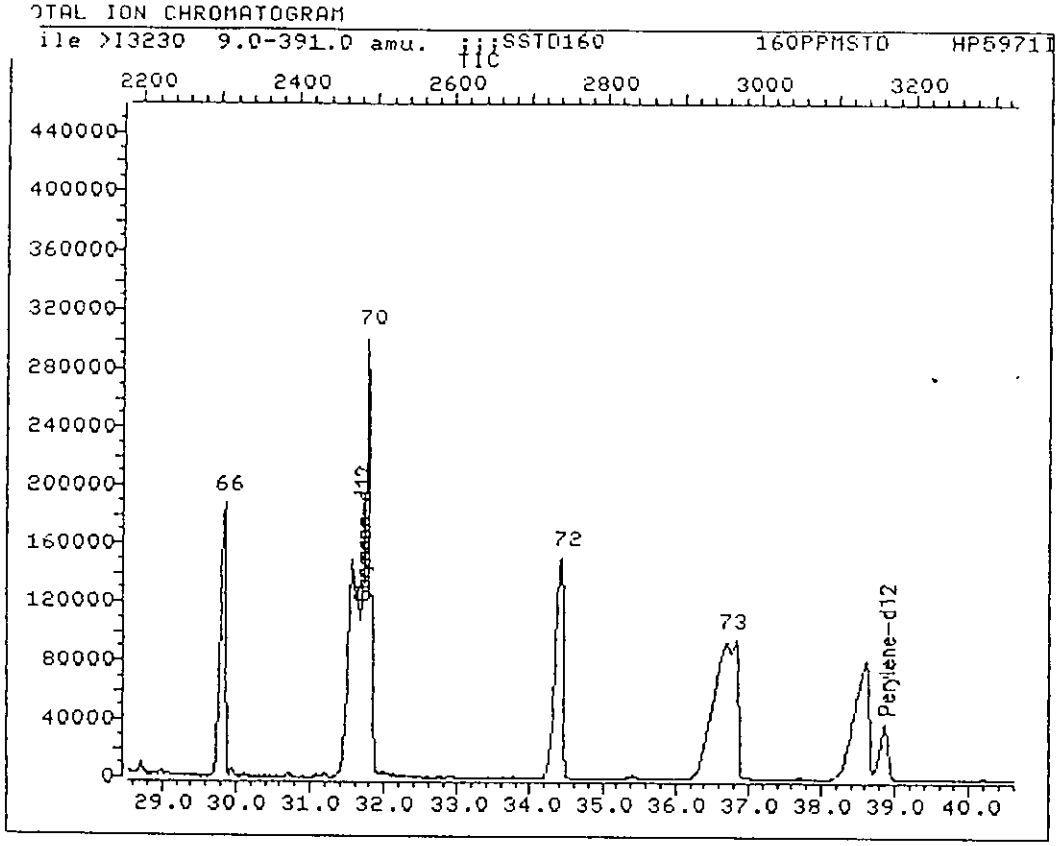
0714



Data File: >I3230::A3 Quant Output File: ^I3230::A6
Name: ;;;SSTD160 Instrument ID: **MSD
Misc: 160PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930203 23:00
Injected at: 930203 22:02



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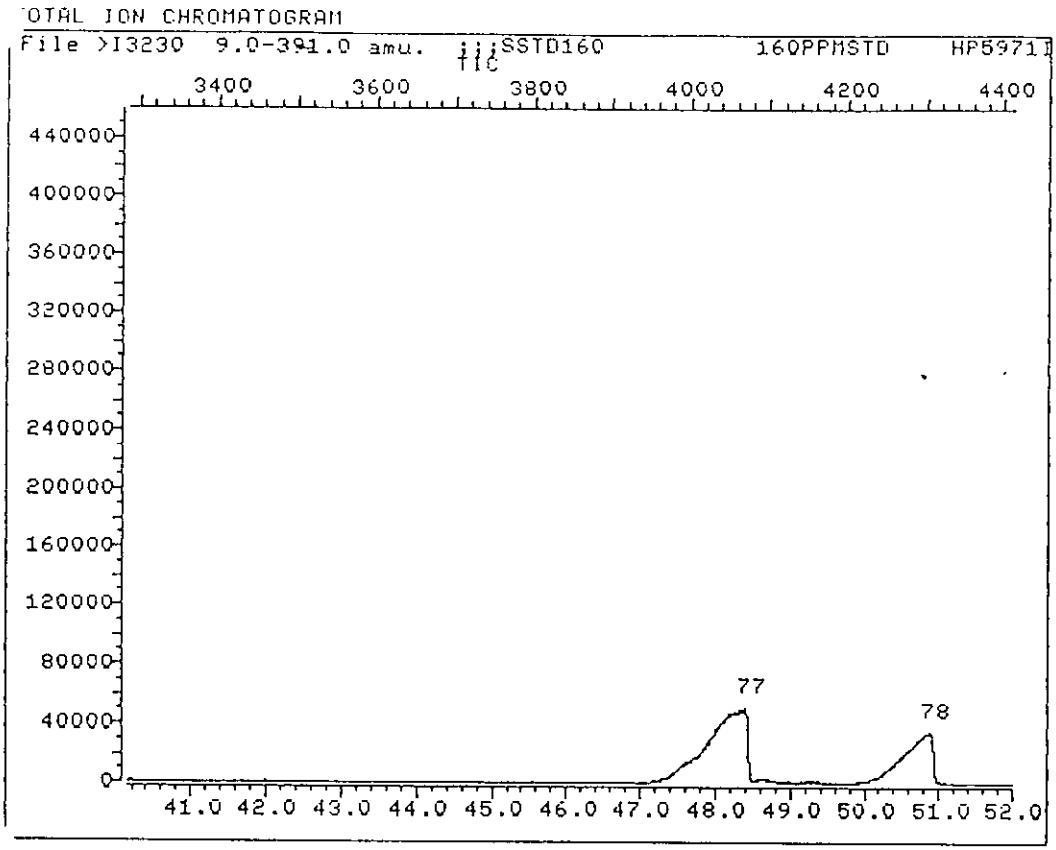
Misc: 160PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930203 23:00
Injected at: 930203 22:02



Data File: >I3230::A3 Quant Output File: ^I3230::A6
Name: ;;;SSTD160 Instrument ID: **MSD
Misc: 160PPMSTD HP5971I;;;LLW;1.0;;;I0288

Id File: I_IFI::A6
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930203 17:02

Operator ID: USER1
Quant Time : 930203 23:00
Injected at: 930203 22:02

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Instrument ID: HP5971I Calibration Date: 02/16/93 Time: 0848

Lab File ID: I3279.D Init. Calibration Date(s): 02/03/93

Init. Calibration Times: 1702 2202

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.740	1.690	0.800	2.9	25.0
bis(2-Chloroethyl)ether	1.779	1.631	0.700	8.3	25.0
2-Chlorophenol	1.258	1.318	0.800	-4.8	25.0
1,3-Dichlorobenzene	1.321	1.386	0.600	-4.9	25.0
1,4-Dichlorobenzene	1.294	1.365	0.500	-5.4	25.0
1,2-Dichlorobenzene	1.206	1.325	0.400	-9.8	25.0
2-Methylphenol	1.239	1.249	0.700	-0.8	25.0
2,2'-oxybis(1-Chloropropane)	1.457	0.716		50.9	
4-Methylphenol	1.378	1.326	0.600	3.7	25.0
N-Nitroso-di-n-propylamine	0.887	0.826	0.500	6.9	25.0
Hexachloroethane	0.659	0.671	0.300	-1.8	25.0
Nitrobenzene	0.363	0.336	0.200	7.3	25.0
Isophorone	0.842	0.804	0.400	4.4	25.0
2-Nitrophenol	0.260	0.225	0.100	13.6	25.0
2,4-Dimethylphenol	0.374	0.375	0.200	-0.2	25.0
bis(2-Chloroethoxy)methane	0.554	0.550	0.300	0.9	25.0
2,4-Dichlorophenol	0.317	0.322	0.200	-1.5	25.0
1,2,4-Trichlorobenzene	0.341	0.362	0.200	-6.0	25.0
Naphthalene	0.930	0.954	0.700	-2.6	25.0
4-Chloroaniline	0.196	0.058		70.3	
Hexachlorobutadiene	0.177	0.194		-9.4	
4-Chloro-3-methylphenol	0.355	0.366	0.200	-3.1	25.0
2-Methylnaphthalene	0.654	0.696	0.400	-6.4	25.0
Hexachlorocyclopentadiene	0.371	0.326		12.1	
2,4,6-Trichlorophenol	0.436	0.445	0.200	-2.0	25.0
2,4,5-Trichlorophenol	0.409	0.484	0.200	-18.4	25.0
2-Chloronaphthalene	1.063	1.125	0.800	-5.9	25.0
2-Nitroaniline	0.384	0.334		13.0	
Dimethylphthalate	1.368	1.400		-2.3	
Acenaphthylene	1.594	1.622	1.300	-1.8	25.0
2,6-Dinitrotoluene	0.329	0.308	0.200	6.3	25.0
3-Nitroaniline	0.080	0.044		45.3	
Acenaphthene	0.964	1.001	0.800	-3.8	25.0
2,4-Dinitrophenol	0.244	0.099		59.2	
4-Nitrophenol	0.144	0.162		-12.2	
Dibenzofuran	1.452	1.506	0.800	-3.7	25.0
2,4-Dinitrotoluene	0.516	0.481	0.200	6.7	25.0

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Instrument ID: HP5971I Calibration Date: 02/16/93 Time: 0848

Lab File ID: I3279.D Init. Calibration Date(s): 02/03/93

Init. Calibration Times: 1702 2202

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.342	1.461		-8.9	
4-Chlorophenyl-phenylether	0.501	0.525	0.400	-4.8	25.0
Fluorene	1.004	1.012	0.900	-0.8	25.0
4-Nitroaniline	0.170	0.330		-94.3	
4,6-Dinitro-2-methylphenol	0.173	0.114		34.0	
N-Nitrosodiphenylamine (1)	0.362	0.353		2.5	
4-Bromophenyl-phenylether	0.188	0.195	0.100	-3.9	25.0
Hexachlorobenzene	0.265	0.268	0.100	-1.0	25.0
Pentachlorophenol	0.187	0.160	0.050	14.5	25.0
Phenanthrene	0.929	0.894	0.700	3.8	25.0
Anthracene	0.922	0.914	0.700	0.8	25.0
Carbazole	0.262	0.305		-16.3	
Di-n-butylphthalate	1.364	1.298		4.8	
Fluoranthene	1.011	1.017	0.600	-0.6	25.0
Pyrene	1.358	1.286	0.600	5.3	25.0
Butylbenzylphthalate	0.822	0.738		10.2	
3,3'-Dichlorobenzidine	0.222	0.207		6.5	
Benzo(a)anthracene	1.148	1.102	0.800	4.0	25.0
Chrysene	0.917	0.946	0.700	-3.1	25.0
bis(2-Ethylhexyl)phthalate	0.984	0.896		8.9	
Di-n-octylphthalate	2.004	1.836		8.4	
Benzo(b)fluoranthene	1.318	1.172	0.700	11.1	25.0
Benzo(k)fluoranthene	0.877	0.984	0.700	-12.1	25.0
Benzo(a)pyrene	1.085	1.052	0.700	3.0	25.0
Indeno(1,2,3-cd)pyrene	0.980	1.084	0.500	-10.6	25.0
Dibenz(a,h)anthracene	0.869	0.979	0.400	-12.6	25.0
Benzo(g,h,i)perylene	0.972	1.044	0.500	-7.4	25.0
Nitrobenzene-d5	0.401	0.380	0.200	5.3	25.0
2-Fluorobiphenyl	1.180	1.241	0.700	-5.2	25.0
Terphenyl-d14	0.913	0.881	0.500	3.6	25.0
Phenol-d5	1.795	1.756	0.800	2.2	25.0
2-Fluorophenol	1.289	1.259	0.600	2.3	25.0
2,4,6-Tribromophenol	0.261	0.286		-9.5	
2-Chlorophenol-d4	1.201	1.268	0.800	-5.6	25.0
1,2-Dichlorobenzene-d4	0.818	0.851	0.400	-4.0	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Operator ID: USER1
Output File: ^I3279::A6
Data File: >I3279::A5
Name: ;;;SSTD050
Misc: 050PPMSTD HP5971I;;;;1;;;I0294

Quant Rev: 7 Quant Time: 930223 11:39
Injected at: 930216 08:48
Dilution Factor: 1.00000
Instrument ID: **MSD

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.10	151.8	20683	40.00	ug	94
2)	2-Chlorophenol-d4	11.68	132.0	32780	50.00	ug	80
3)	2-Fluorophenol	9.20	111.8	32555	50.00	ug	71
4)	Phenol-d5	11.49	98.8	45405	50.00	ug	54
5)	Phenol	11.52	93.9	43694M43694.00	NO CALIB		
6)	bis(2-Chloroethyl)ether	11.57	92.7	42160M42160.00	NO CALIB		
7)	2-Chlorophenol	11.72	127.8	34082	50.00	ug	84
8)	1,3-Dichlorobenzene	12.01	145.8	35826	50.00	ug	98
)	1,4-Dichlorobenzene	12.14	145.7	35284	50.00	ug	91
10)	1,2-Dichlorobenzene-d4	12.59	152.0	22006	50.00	ug	91
11)	1,2-Dichlorobenzene	12.62	145.7	34246	50.00	ug	96
12)	2-Methylphenol	12.93	107.8	32293	50.00	ug	79
13)	2,2'-oxybis(1-Chloropropane)	12.91	44.8	18507^	50.00	ug	49
14)	4-Methylphenol	13.31	107.8	34283	50.00	ug	93
15)	N-Nitroso-di-n-propylamine	13.28	69.9	21358	50.00	ug	65
16)	Hexachloroethane	13.38	116.7	17344	50.00	ug	98
17)	*Naphthalene-d8	15.37	135.9	74721	40.00	ug	97
18)	Nitrobenzene-d5	13.59	81.8	35499	50.00	ug	69
19)	Nitrobenzene	13.63	76.8	31397	50.00	ug	79
20)	Isophorone	14.24	81.8	75139	50.00	ug	89
21)	2-Nitrophenol	14.45	138.9	21000	50.00	ug	76
22)	2,4-Dimethylphenol	14.62	106.8	35008	50.00	ug	95
23)	bis(2-Chloroethoxy)methane	14.82	92.8	51330	50.00	ug	73
24)	2,4-Dichlorophenol	15.10	161.7	30035	50.00	ug	94
25)	1,2,4-Trichlorobenzene	15.27	179.7	33792	50.00	ug	97
26)	Naphthalene	15.43	127.9	89087	50.00	ug	79
27)	4-Chloroaniline	15.80	126.8	5426	50.00	ug	76
28)	Hexachlorobutadiene	15.89	224.6	18075	50.00	ug	96
29)	4-Chloro-3-methylphenol	16.97	106.9	34149	50.00	ug	90
30)	2-Methylnaphthalene	17.22	141.9	64993	50.00	ug	96
31)	*Acenaphthene-d10	20.03	163.9	43101	40.00	ug	95
32)	Hexachlorocyclopentadiene	17.82	236.6	17590	50.00	ug	98
33)	2,4,6-Trichlorophenol	18.08	195.8	23951	50.00	ug	98
34)	2,4,5-Trichlorophenol	18.20	195.8	26094	50.00	ug	95
35)	2-Fluorobiphenyl	18.26	171.8	66871	50.00	ug	96
36)	2-Chloronaphthalene	18.51	161.8	60630	50.00	ug	97
37)	2-Nitroaniline	18.91	64.9	18005M18005.00	NO CALIB		
38)	Dimethylphthalate	19.44	162.8	79419	50.00	ug	97
39)	Acenaphthylene	19.62	152.0	87389	50.00	ug	96
40)	2,6-Dinitrotoluene	19.62	164.8	16608	50.00	ug	88

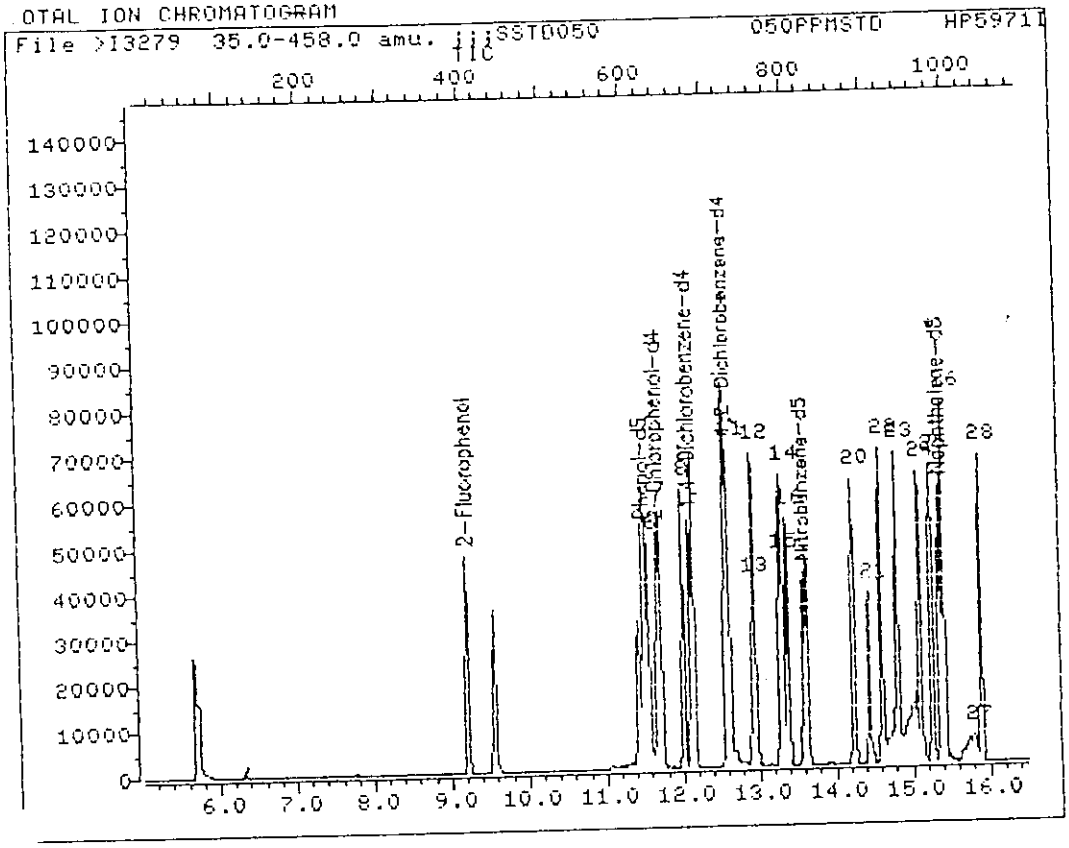
Operator ID: USER1
Output File: ^I3279::A6
Data File: >I3279::A5
Name: ;;;SSTD050
Misc: 050PPMSTD HP5971I;;;;1;;;10294

Quant Rev: 7 Quant Time: 930223 11:39
Injected at: 930216 08:48
Dilution Factor: 1.00000
Instrument ID: **MSD

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	3-Nitroaniline	20.03	137.8	2354	80.00	ug	75
42)	Acenaphthene	20.12	152.9	53916	50.00	ug	98
43)	2,4-Dinitrophenol	20.24	183.8	5358	50.00	ug	90
44)	4-Nitrophenol	20.55	108.8	8732	50.00	ug	75
45)	Dibenzofuran	20.53	167.8	81127	50.00	ug	85
46)	2,4-Dinitrotoluene	20.64	164.8	25927	50.00	ug	72
47)	Diethylphthalate	21.30	148.8	78731	50.00	ug	97
48)	4-Chlorophenyl-phenylether	21.44	203.9	28276	50.00	ug	83
49)	Fluorene	21.45	165.9	54545	50.00	ug	99
50)	4-Nitroaniline	21.65	137.9	17796	50.00	ug	77
51)	2,4,6-Tribromophenol	22.15	329.6	15409	50.00	ug	88
52)	*Phenanthrene-d10	23.93	187.9	83757	40.00	ug	98
53)	4,6-Dinitro-2-methylphenol	21.72	197.9	11936	50.00	ug	82
54)	N-Nitrosodiphenylamine (1)	21.78	168.9	36975	50.00	ug	97
55)	4-Bromophenyl-phenylether	22.73	247.9	20407	50.00	ug	83
56)	Hexachlorobenzene	23.12	283.6	28055	50.00	ug	97
57)	Pentachlorophenol	23.61	265.6	16787	50.00	ug	97
58)	Phenanthrene	23.99	177.9	93634	50.00	ug	97
59)	Carbazole	24.54	166.8	31922	50.00	ug	96
60)	Anthracene	24.11	177.9	95671	50.00	ug	98
61)	Di-n-butylphthalate	25.57	148.8	135937	50.00	ug	98
62)	Fluoranthene	27.15	201.9	106465	50.00	ug	98
63)	*Chrysene-d12	31.23	240.0	67348	40.00	ug	98
64)	Pyrene	27.75	201.9	108271	50.00	ug	98
65)	Terphenyl-d14	28.15	244.0	74129	50.00	ug	99
66)	Butylbenzylphthalate	29.52	148.8	62112	50.00	ug	94
67)	3,3'-Dichlorobenzidine	31.11	251.9	17460	50.00	ug	81
68)	Benzo(a)anthracene	31.17	228.0	92810	50.00	ug	98
69)	Chrysene	31.33	228.0	79636	50.00	ug	96
70)	bis(2-Ethylhexyl)phthalate	31.36	148.8	75447	50.00	ug	92
71)	*Perylene-d12	38.03	264.0	65591	40.00	ug	96
72)	Di-n-octylphthalate	33.86	148.9	150538	50.00	ug	94
73)	Benzo(b)fluoranthene	35.84	252.0	96101	50.00	ug	96
~~73)~~	~~Benzo(b)fluoranthene~~	~~35.98~~	~~252.0~~	~~80681~~	~~41.98~~	~~ug~~	~~98~~
~~74)~~	~~Benzo(k)fluoranthene~~	~~35.84~~	~~252.0~~	~~96101~~	~~59.56~~	~~ug~~	~~92~~
74)	Benzo(k)fluoranthene	35.98	252.0	80681	50.00	ug	98
75)	Benzo(a)pyrene	37.68	252.0	86276	50.00	ug	98
76)	Indeno(1,2,3-cd)pyrene	46.44	276.0	88848	50.00	ug	94
77)	Dibenz(a,h)anthracene	46.72	278.0	80280	50.00	ug	98
78)	Benzo(g,h,i)perylene	49.04	276.0	85601	50.00	ug	84



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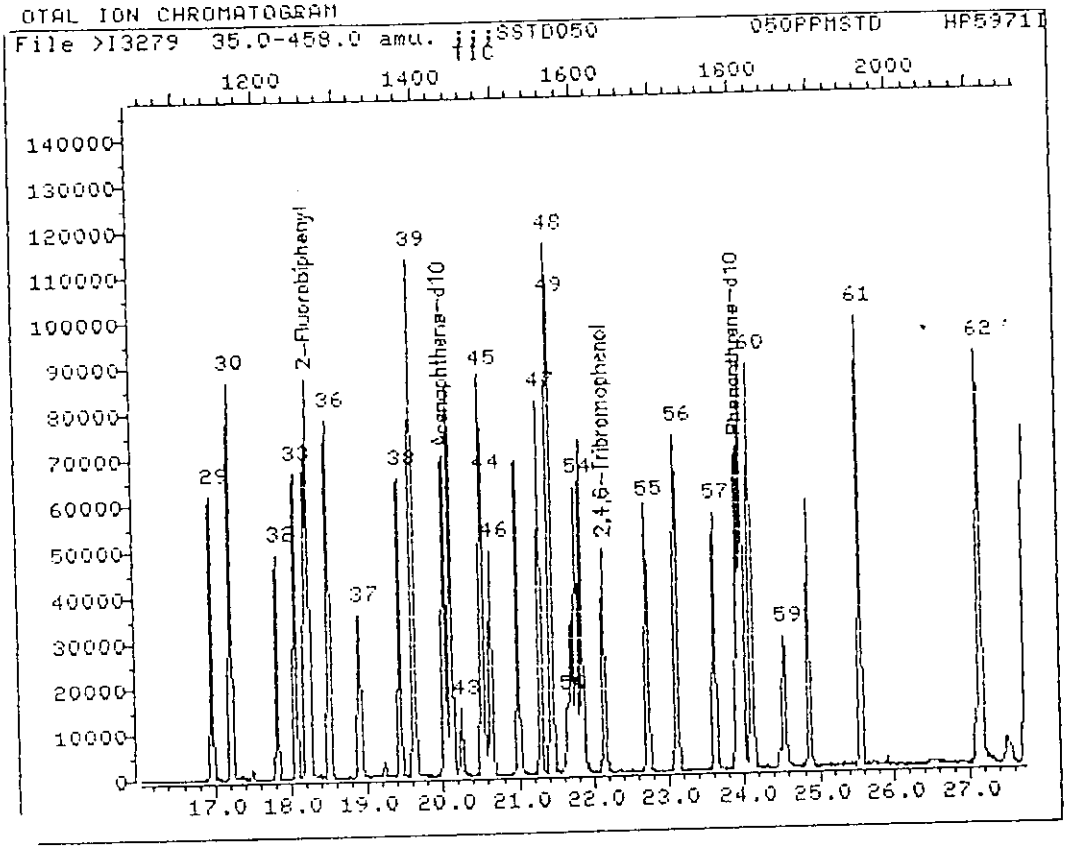
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0294

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 11:39
Injected at: 930216 08:48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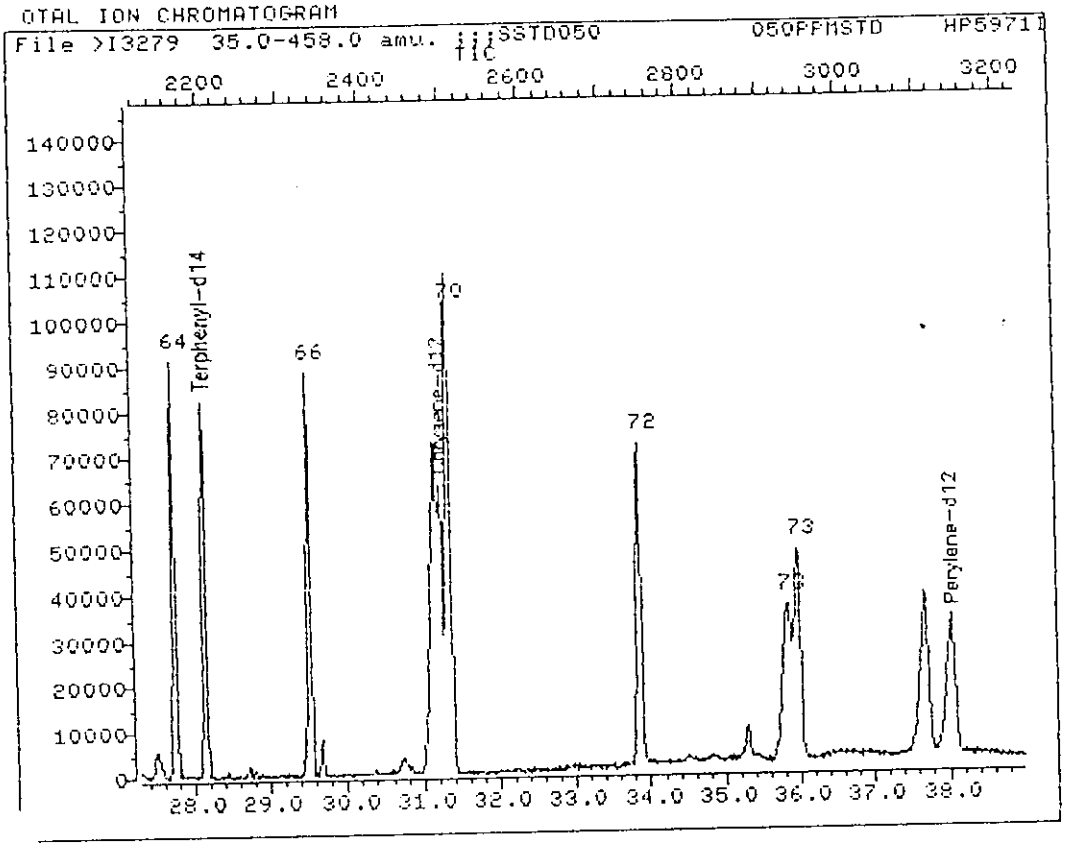
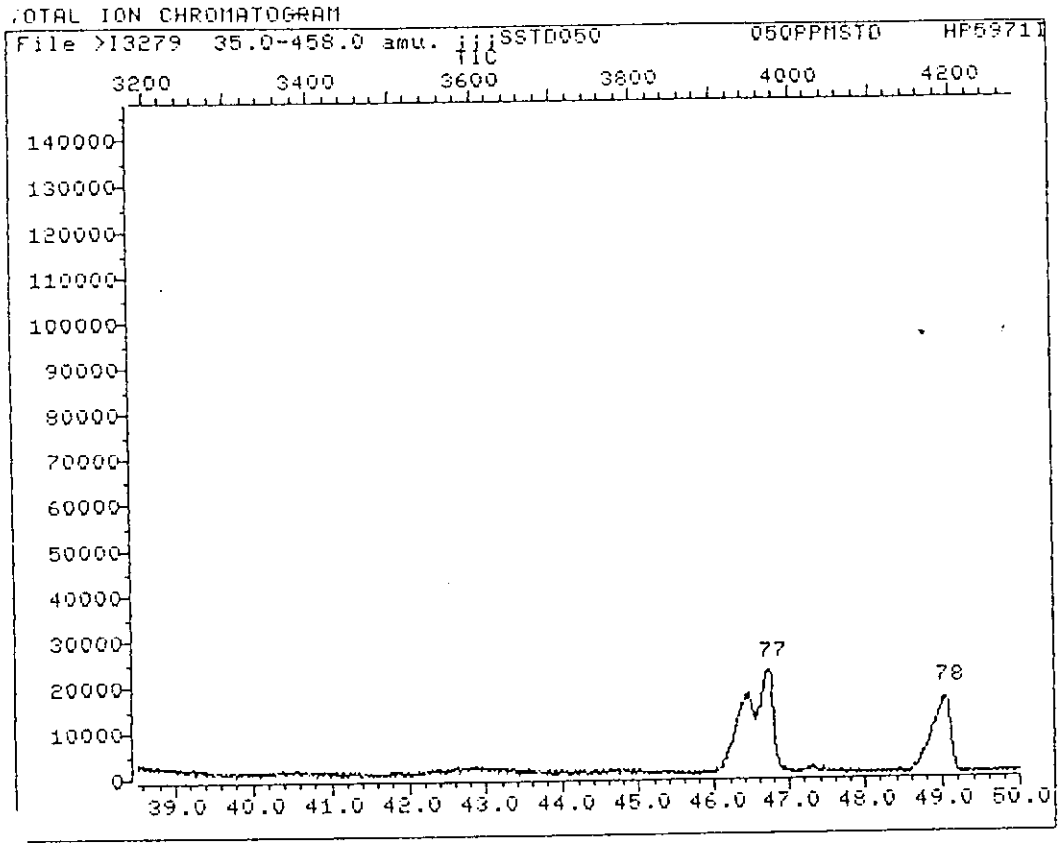
File >I3279 35.0-458.0 amu. ;;;SSTD050 050PPMSTD HP5971I
TIC
2-Fluorobiphenyl
Acenaphthene-d10
2,4,6-Tribromophenol
Phenanthrene-d10
Data File: >I3279::A5
Name: ;;;SSTD050
Misc: 050PPMSTD HP5971I;;;;1;;;I0294
Quant Output File: ^I3279::A6
Instrument ID: **MSD
Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52
Last Qcal Time: 930216 08:48
Operator ID: USER1
Quant Time : 930223 11:39
Injected at: 930216 08:48



Data File: >I3279::A5 Quant Output File: ^I3279::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP59711;;;;1;;;10294

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 11:39
Injected at: 930216 08:48



Data File: >I3279::A5 Quant Output File: ^I3279::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0294

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 11:39
Injected at: 930216 08:48

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Instrument ID: HP5971I Calibration Date: 02/19/93 Time: 1028

Lab File ID: I3302.D Init. Calibration Date(s): 02/03/93

Init. Calibration Times: 1702 2202

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
bis(2-Chloroethyl)ether	1.779	1.688	0.700	5.1	25.0
2-Chlorophenol	1.258	1.339	0.800	-6.5	25.0
1,3-Dichlorobenzene	1.321	1.371	0.600	-3.7	25.0
1,4-Dichlorobenzene	1.294	1.387	0.500	-7.1	25.0
1,2-Dichlorobenzene	1.206	1.313	0.400	-8.8	25.0
2-Methylphenol	1.239	1.292	0.700	-4.3	25.0
2,2'-oxybis(1-Chloropropane)	1.457	1.162		20.2	
4-Methylphenol	1.378	1.391	0.600	-0.9	25.0
N-Nitroso-di-n-propylamine	0.887	0.893	0.500	-0.7	25.0
Hexachloroethane	0.659	0.655	0.300	0.6	25.0
Nitrobenzene	0.363	0.354	0.200	2.5	25.0
Isophorone	0.842	0.822	0.400	2.3	25.0
2-Nitrophenol	0.260	0.258	0.100	0.9	25.0
2,4-Dimethylphenol	0.374	0.370	0.200	1.1	25.0
bis(2-Chloroethoxy)methane	0.554	0.571	0.300	-3.0	25.0
2,4-Dichlorophenol	0.317	0.330	0.200	-4.2	25.0
1,2,4-Trichlorobenzene	0.341	0.356	0.200	-4.3	25.0
Naphthalene	0.930	0.959	0.700	-3.1	25.0
4-Chloroaniline	0.196	0.210		-7.3	
Hexachlorobutadiene	0.177	0.184		-3.8	
4-Chloro-3-methylphenol	0.355	0.369	0.200	-4.0	25.0
2-Methylnaphthalene	0.654	0.698	0.400	-6.8	25.0
Hexachlorocyclopentadiene	0.371	0.356		4.2	
2,4,6-Trichlorophenol	0.436	0.444	0.200	-1.9	25.0
2,4,5-Trichlorophenol	0.409	0.472	0.200	-15.3	25.0
2-Chloronaphthalene	1.063	1.129	0.800	-6.2	25.0
2-Nitroaniline	0.384	0.364		5.2	
Dimethylphthalate	1.368	1.402		-2.4	
Acenaphthylene	1.594	1.636	1.300	-2.6	25.0
2,6-Dinitrotoluene	0.329	0.353	0.200	-7.3	25.0
3-Nitroaniline	0.080	0.078		2.5	
Acenaphthene	0.964	1.010	0.800	-4.8	25.0
2,4-Dinitrophenol	0.244	0.188		22.7	
4-Nitrophenol	0.144	0.168		-16.2	
Dibenzofuran	1.452	1.578	0.800	-8.7	25.0
2,4-Dinitrotoluene	0.516	0.529	0.200	-2.6	25.0
Diethylphthalate	1.342	1.406		-4.8	

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Instrument ID: HP5971I Calibration Date: 02/19/93 Time: 1028

Lab File ID: I3302.D Init. Calibration Date(s): 02/03/93

Init. Calibration Times: 1702 2202

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
4-Chlorophenyl-phenylether	0.501	0.532	0.400	-6.3	25.0
Fluorene	1.004	1.025	0.900	-2.1	25.0
4-Nitroaniline	0.170	0.298		-75.1	
4,6-Dinitro-2-methylphenol	0.173	0.165		4.6	
N-Nitrosodiphenylamine (1)	0.362	0.355		2.0	
4-Bromophenyl-phenylether	0.188	0.197	0.100	-4.8	25.0
Hexachlorobenzene	0.265	0.270	0.100	-1.7	25.0
Pentachlorophenol	0.187	0.174	0.050	7.3	25.0
Phenanthrene	0.929	0.922	0.700	0.8	25.0
Anthracene	0.922	0.947	0.700	-2.7	25.0
Carbazole	0.262	0.296		-12.8	
Di-n-butylphthalate	1.364	1.266		7.2	
Fluoranthene	1.011	1.025	0.600	-1.4	25.0
Pyrene	1.358	1.262	0.600	7.1	25.0
Butylbenzylphthalate	0.822	0.725		11.8	
3,3'-Dichlorobenzidine	0.222	0.206		7.0	
Benzo(a)anthracene	1.148	1.120	0.800	2.4	25.0
Chrysene	0.917	0.952	0.700	-3.8	25.0
bis(2-Ethylhexyl)phthalate	0.984	0.898		8.8	
Di-n-octylphthalate	2.004	1.764		12.0	
Benzo(b)fluoranthene	1.318	1.151	0.700	12.7	25.0
Benzo(k)fluoranthene	0.877	1.027	0.700	-17.0	25.0
Benzo(a)pyrene	1.085	1.045	0.700	3.7	25.0
Indeno(1,2,3-cd)pyrene	0.980	1.067	0.500	-8.9	25.0
Dibenz(a,h)anthracene	0.869	0.967	0.400	-11.2	25.0
Benzo(g,h,i)perylene	0.972	1.041	0.500	-7.1	25.0
Nitrobenzene-d5	0.401	0.400	0.200	0.2	25.0
2-Fluorobiphenyl	1.180	1.231	0.700	-4.4	25.0
Terphenyl-d14	0.913	0.882	0.500	3.4	25.0
Phenol-d5	1.795	1.784	0.800	0.6	25.0
2-Fluorophenol	1.289	1.306	0.600	-1.3	25.0
2,4,6-Tribromophenol	0.261	0.292		-11.7	
2-Chlorophenol-d4	1.201	1.278	0.800	-6.4	25.0
1,2-Dichlorobenzene-d4	0.818	0.835	0.400	-2.1	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT Page 1

Operator ID: USER1 Quant Rev: 7 Quant Time: 930223 11:04
Output File: ^I3302::A6 Injected at: 930219 10:28
Data File: >I3302::A5 Dilution Factor: 1.00000
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0296

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.01	151.8	20283	40.00	ug	93
2)	2-Chlorophenol-d4	11.60	132.0	32397	50.00	ug	80
3)	2-Fluorophenol	9.15	111.8	33114	50.00	ug	75
4)	Phenol-d5	11.43	98.8	45241	50.00	ug	53
6)	bis(2-Chloroethyl)ether	11.47	92.7	42806	50.00	ug	59
7)	2-Chlorophenol	11.64	127.8	33949	50.00	ug	85
8)	1,3-Dichlorobenzene	11.91	145.8	34751	50.00	ug	96
9)	1,4-Dichlorobenzene	12.05	145.7	35160	50.00	ug	93
10)	1,2-Dichlorobenzene-d4	12.48	152.0	21181	50.00	ug	94
11)	1,2-Dichlorobenzene	12.51	145.7	33283	50.00	ug	97
12)	2-Methylphenol	12.86	107.8	32765	50.00	ug	89
13)	2,2'-oxybis(1-Chloropropane)	12.82	44.8	29469^	50.00	ug	79
14)	4-Methylphenol	13.24	107.8	35259	50.00	ug	91
15)	N-Nitroso-di-n-propylamine	13.19	69.9	22645	50.00	ug	61
16)	Hexachloroethane	13.27	116.7	16607	50.00	ug	99
17)	*Naphthalene-d8	15.26	135.9	74046	40.00	ug	97
18)	Nitrobenzene-d5	13.48	81.8	37064	50.00	ug	70
19)	Nitrobenzene	13.52	76.8	32745	50.00	ug	80
20)	Isophorone	14.13	81.8	76106	50.00	ug	89
21)	2-Nitrophenol	14.34	138.9	23867	50.00	ug	75
22)	2,4-Dimethylphenol	14.53	106.8	34256	50.00	ug	96
23)	bis(2-Chloroethoxy)methane	14.71	92.8	52840	50.00	ug	74
24)	2,4-Dichlorophenol	15.01	161.7	30550	50.00	ug	98
25)	1,2,4-Trichlorobenzene	15.16	179.7	32931	50.00	ug	96
26)	Naphthalene	15.31	127.9	88736	50.00	ug	79
27)	4-Chloroaniline	15.59	126.8	19443	50.00	ug	84
28)	Hexachlorobutadiene	15.79	224.6	17004	50.00	ug	92
29)	4-Chloro-3-methylphenol	16.89	106.9	34145	50.00	ug	90
30)	2-Methylnaphthalene	17.12	141.9	64649	50.00	ug	96
31)	*Acenaphthene-d10	19.92	163.9	42698	40.00	ug	97
32)	Hexachlorocyclopentadiene	17.71	236.6	18989	50.00	ug	99
33)	2,4,6-Trichlorophenol	17.97	195.8	23702	50.00	ug	94
34)	2,4,5-Trichlorophenol	18.11	195.8	25169	50.00	ug	94
35)	2-Fluorobiphenyl	18.14	171.8	65721	50.00	ug	97
36)	2-Chloronaphthalene	18.39	161.8	60231	50.00	ug	95
37)	2-Nitroaniline	18.79	64.9	19441	50.00	ug	55
38)	Dimethylphthalate	19.33	162.8	74802	50.00	ug	97
39)	Acenaphthylene	19.51	152.0	87304	50.00	ug	97
40)	2,6-Dinitrotoluene	19.52	164.8	18832	50.00	ug	77
41)	3-Nitroaniline	19.93	137.8	4154	80.00	ug	52

QUANT REPORT

Operator ID: USER1 Quant Rev: 7 Quant Time: 930223 11:04
Output File: ^I3302::A6 Injected at: 930219 10:28
Data File: >I3302::A5 Dilution Factor: 1.00000
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;10296

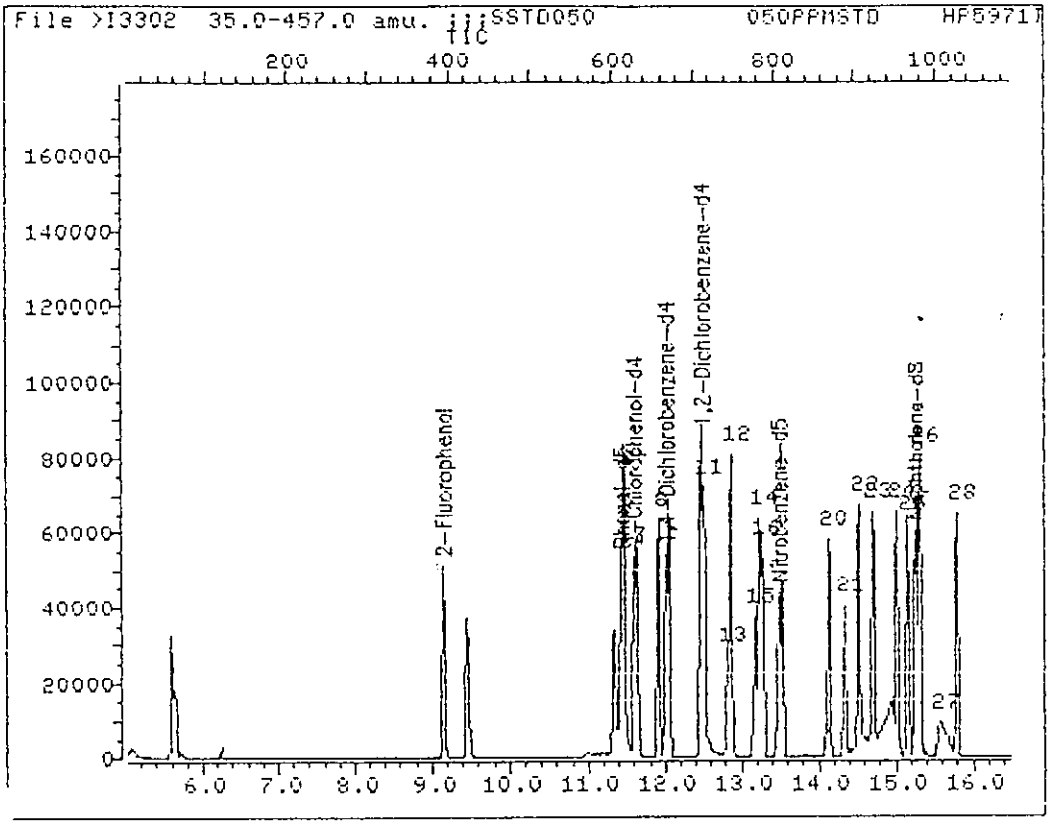
ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
42)	Acenaphthene	20.00	152.9	53931	50.00	ug	98
43)	2,4-Dinitrophenol	20.13	183.8	10052	50.00	ug	84
44)	4-Nitrophenol	20.47	108.8	8962	50.00	ug	76
45)	Dibenzofuran	20.41	167.8	84231	50.00	ug	98
46)	2,4-Dinitrotoluene	20.54	164.8	28260	50.00	ug	71
47)	Diethylphthalate	21.18	148.8	75028	50.00	ug	97
48)	4-Chlorophenyl-phenylether	21.33	203.9	28416	50.00	ug	81
49)	Fluorene	21.33	165.9	54718	50.00	ug	97
50)	4-Nitroaniline	21.54	137.9	15891	50.00	ug	74
51)	2,4,6-Tribromophenol	22.03	329.6	15576	50.00	ug	91
52)	*Phenanthrene-d10	23.80	187.9	81493	40.00	ug	98
53)	4,6-Dinitro-2-methylphenol	21.60	197.9	16793	50.00	ug	83
54)	N-Nitrosodiphenylamine (1)	21.67	168.9	36147	50.00	ug	96
55)	4-Bromophenyl-phenylether	22.61	247.9	20040	50.00	ug	79
56)	Hexachlorobenzene	22.99	283.6	27494	50.00	ug	99
57)	Pentachlorophenol	23.50	265.6	17712	50.00	ug	95
58)	Phenanthrene	23.86	177.9	93910	50.00	ug	98
59)	Carbazole	24.42	166.8	30129	50.00	ug	96
60)	Anthracene	23.98	177.9	96452	50.00	ug	98
61)	Di-n-butylphthalate	25.45	148.8	128951	50.00	ug	97
62)	Fluoranthene	27.03	201.9	104430	50.00	ug	98
63)	*Chrysene-d12	31.08	240.0	65562	40.00	ug	98
64)	Pyrene	27.63	201.9	103405	50.00	ug	99
65)	Terphenyl-d14	28.04	244.0	72258	50.00	ug	99
66)	Butylbenzylphthalate	29.39	148.8	59405	50.00	ug	92
67)	3,3'-Dichlorobenzidine	30.96	251.9	16920	50.00	ug	86
68)	Benzo(a)anthracene	31.01	228.0	91819	50.00	ug	98
69)	Chrysene	31.17	228.0	77995	50.00	ug	99
70)	bis(2-Ethylhexyl)phthalate	31.20	148.8	73570	50.00	ug	94
71)	*Perylene-d12	37.75	264.0	66706	40.00	ug	98
72)	Di-n-octylphthalate	33.66	148.9	147127	50.00	ug	93
73)	Benzo(b)fluoranthene	35.59	252.0	95979	50.00	ug	97
74)	Benzo(k)fluoranthene	35.73	252.0	85602	50.00	ug	95
75)	Benzo(a)pyrene	37.39	252.0	87132	50.00	ug	99
76)	Indeno(1,2,3-cd)pyrene	45.95	276.0	88970M	50.00	ug	95
77)	Dibenz(a,h)anthracene	46.24	278.0	80627	50.00	ug	89
78)	Benzo(g,h,i)perylene	48.50	276.0	86807	50.00	ug	85

* Compound is ISTD

CMC 4/28/93

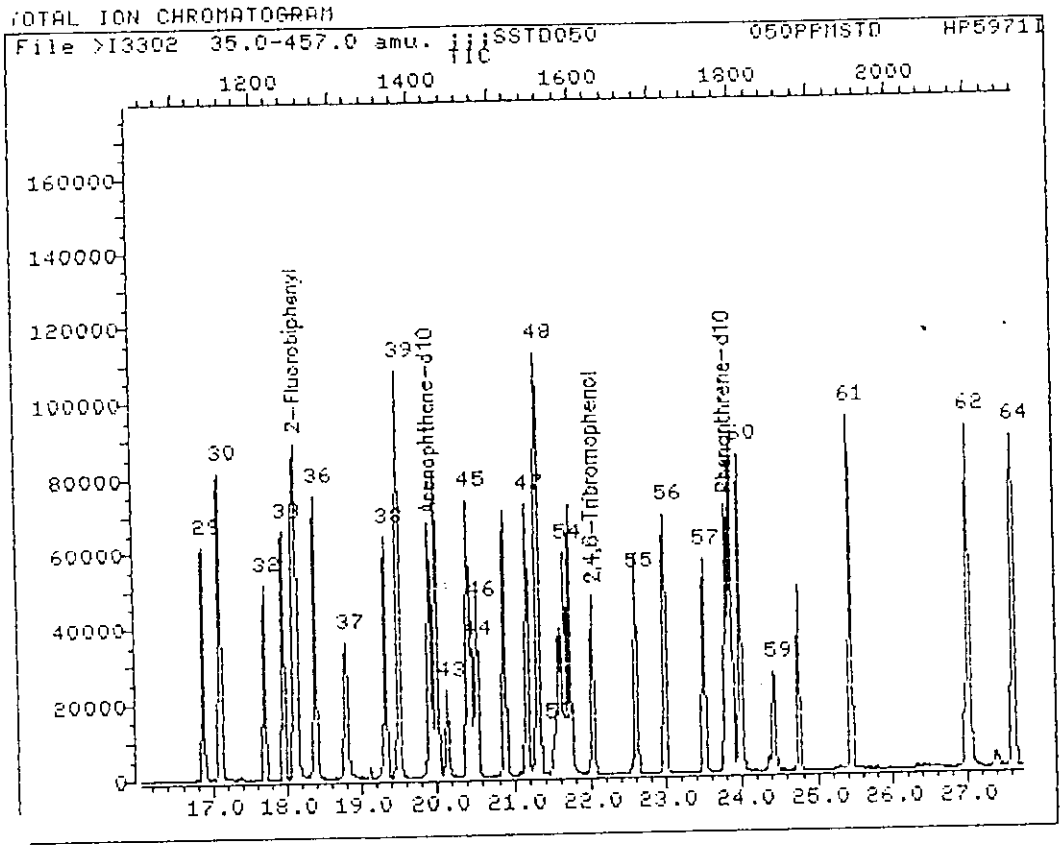
TOTAL ION CHROMATOGRAM



Data File: >I3302::A5 Quant Output File: ^I3302::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0296

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

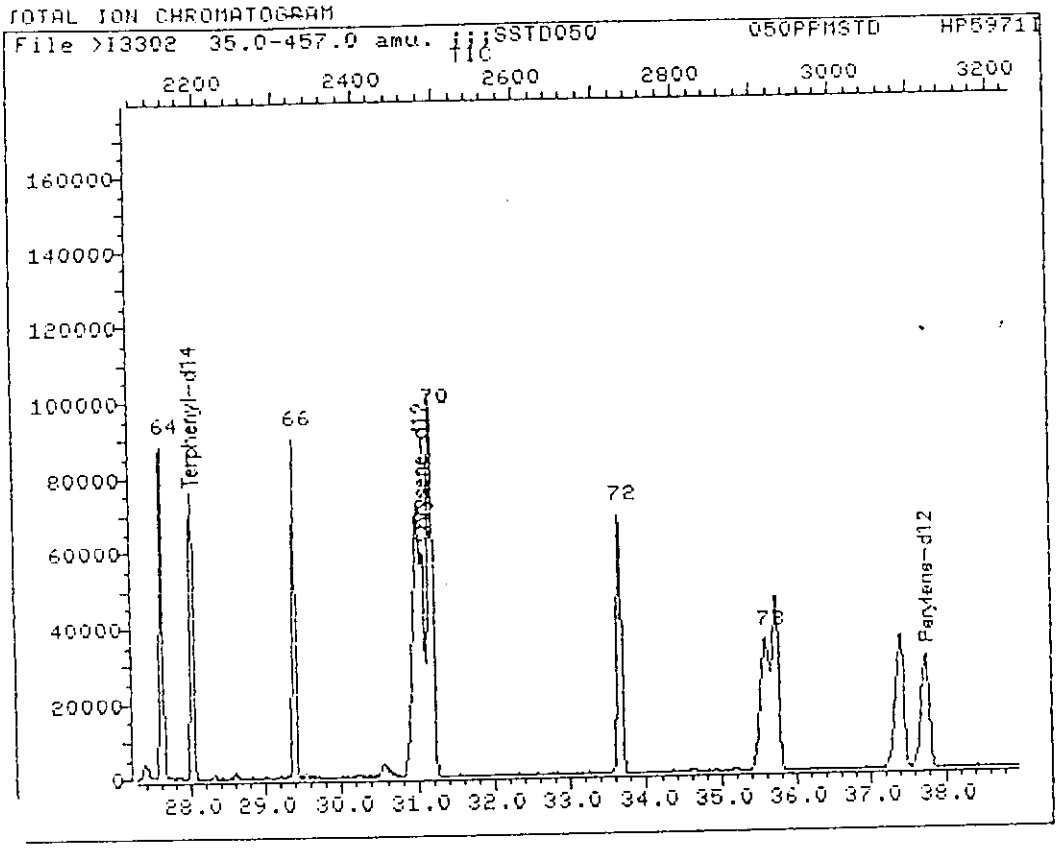
Operator ID: USER1
Quant Time : 930223 11:04
Injected at: 930219 10:28



Data File: >I3302::A5 Quant Output File: ^I3302::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0296

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

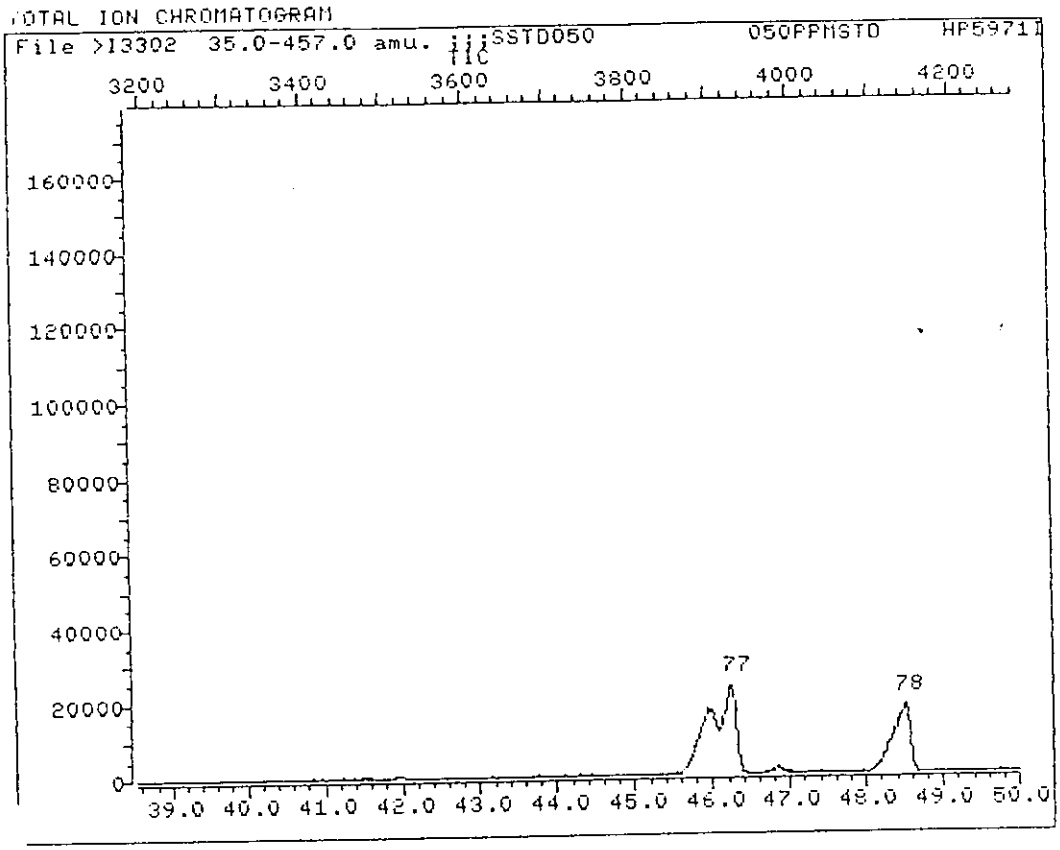
Operator ID: USER1
Quant Time : 930223 11:04
Injected at: 930219 10:28



Data File: >I3302::A5 Quant Output File: ^I3302::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0296

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930223 11:04
Injected at: 930219 10:28



Data File: >I3302::A5 Quant Output File: ^I3302::A6
Name: ;;;SSTD050 Instrument ID: **MSD
Misc: 050PPMSTD HP5971I;;;;1;;;I0296

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930219 10:28

Operator ID: USER1
Quant Time : 930223 11:04
Injected at: 930219 10:28

MS data file header from : >I3226::A3

0733

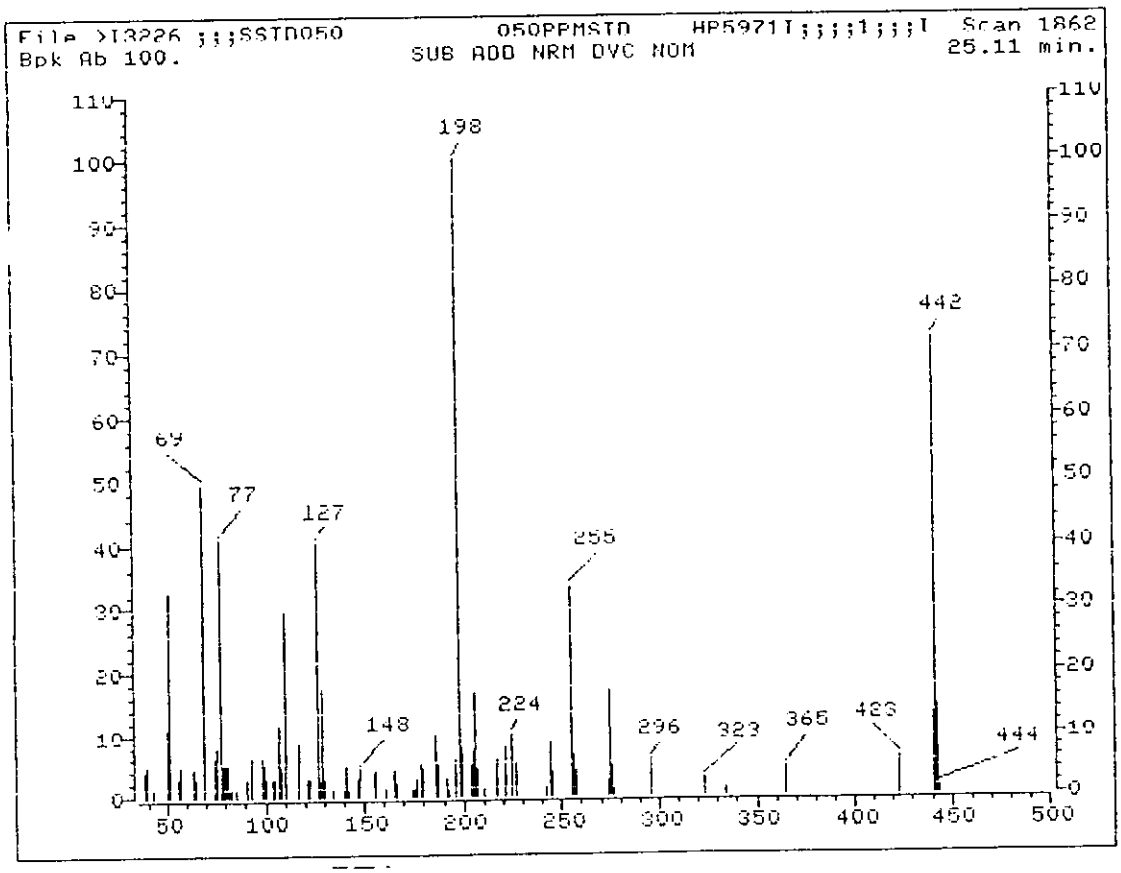
Sample: ;;;SSTD050 Operator: USER1 2/03/93 17:02

sc : 050PPMSTD HP5971I;;;;1;;;I0288

s. #: 1 MS_model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD

Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >I3226::A3

Sample: ;;;SSTD050 Operator: USER1 2/03/93 17:02
sc : 050PPMSTD HP5971I;;;;1;;;I0288
Vs. #: 1 MS_model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	

>I3226 ;;;SSTD050 050PPMSTD HP5971I;;;;1;;;I0288
1862 SUB ADD NRM DVC NOM

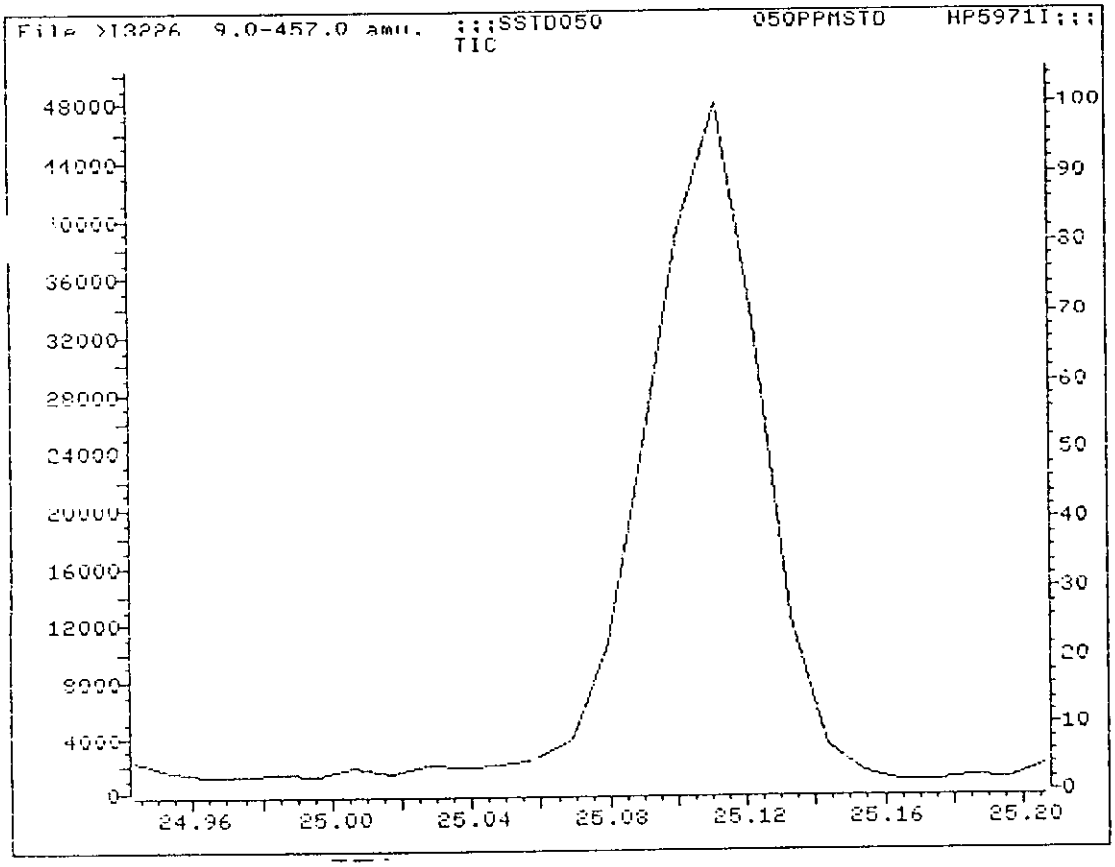
File: >I3226 Scan #: 1862 Retn. time: 25.11

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.95	4.174	84.90	1.329	128.90	17.672	179.80	4.314	243.90	8.669
38.85	4.835	85.70	1.301	129.80	2.936	185.85	9.956	244.80	1.412
42.80	1.412	90.85	2.658	134.85	1.433	186.75	4.995	245.70	3.917
49.95	11.007	92.75	6.331	139.90	1.350	191.80	2.623	254.90	33.264
50.95	32.575	97.80	6.011	140.80	4.801	192.90	1.259	255.80	6.498
51.70	4.230	98.90	5.162	141.65	1.280	195.85	5.705	257.80	4.300
55.90	2.936	100.05	1.329	146.90	2.679	197.95	100.000	273.80	2.338
56.85	4.710	100.75	2.901	147.70	4.341	198.75	7.980	274.90	16.962
62.90	4.599	103.75	2.727	154.85	4.021	204.00	5.079	275.80	4.710
64.80	2.665	104.90	2.783	155.75	4.070	204.90	7.062	276.80	1.343
8.95	49.496	106.90	11.570	160.80	1.301	205.95	16.621	295.80	5.698
73.90	6.081	107.90	4.724	164.85	3.994	206.85	4.627	322.75	2.755
74.90	7.709	109.95	29.625	166.85	2.004	210.70	1.329	333.75	1.322
77.00	40.827	110.85	6.060	173.95	1.329	216.65	5.886	364.75	4.376
77.95	5.684	116.80	8.606	174.85	1.391	220.85	7.841	422.80	5.844
78.85	5.316	121.85	2.693	175.85	2.623	223.90	10.033	440.95	13.338
79.85	5.107	122.85	2.706	176.55	2.567	224.80	4.536	442.05	71.836
80.85	5.218	126.90	40.402	177.95	3.075	226.75	5.469	442.85	14.353
81.75	1.357	128.00	2.526	178.80	5.218	241.85	1.301	443.80	1.308
82.95	1.412								

MS data file header from : >I3226::A3

Sample: ;;;SSTD050 Operator: USER1 2/03/93 17:02
Misc : 050PPMSTD HP5971I;;;;1;;;I0288
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

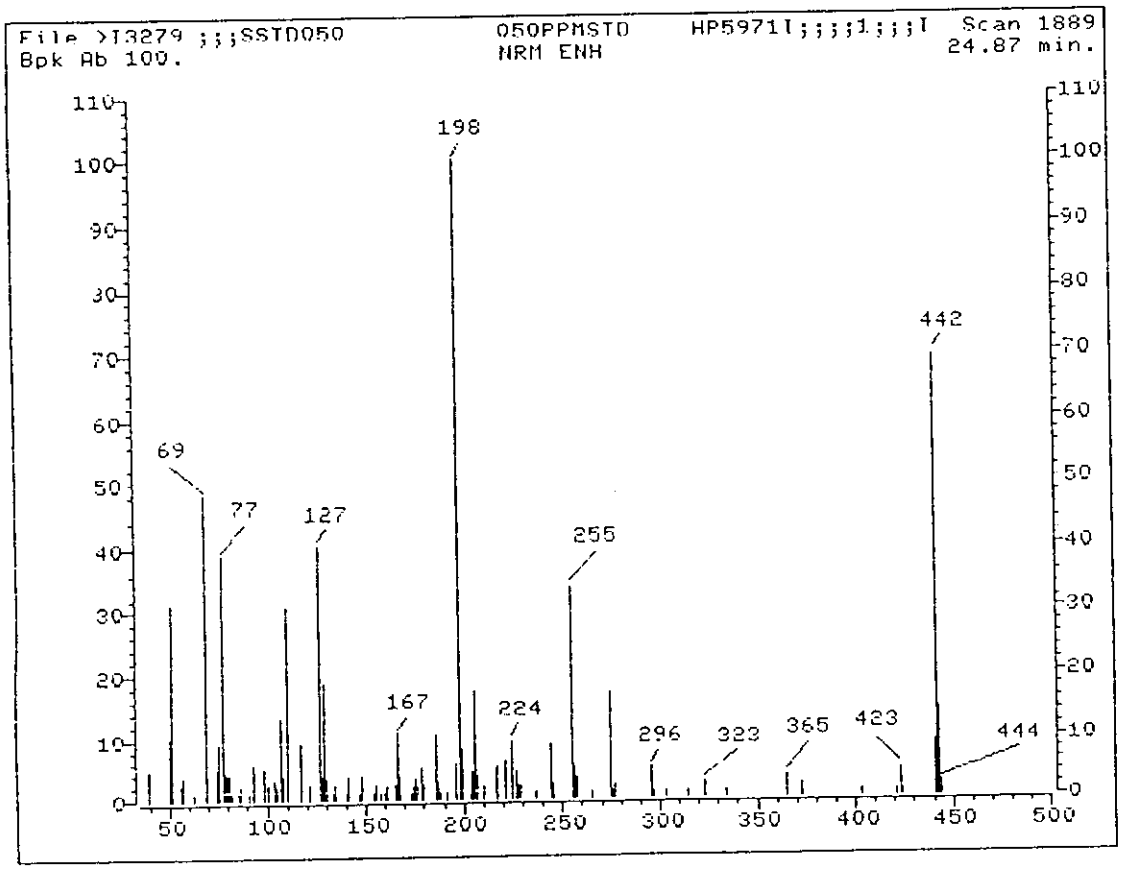


MS data file header from : >I3279::A3

Sample: ;;;SSTD050 Operator: USER1 2/16/93 8:48
Misc : 050PPMSTD HP5971I;;;;1;;;I0294
S# : 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

00 0736



MS data file header from : >I3279::A3

Sample: ;;;SSTD050 Operator: USER1 2/16/93 8:48
Misc : 050PPMSTD HP5971I;;;;1;;;I0294
S[illegible] #: 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD
[illegible]thod file: CSCVT Tuning file: N / A No. of extra records: 2

0737

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>I3279 ;;;SSTD050 050PPMSTD HP5971I;;;;1;;;I0294
1889 NRM ENH

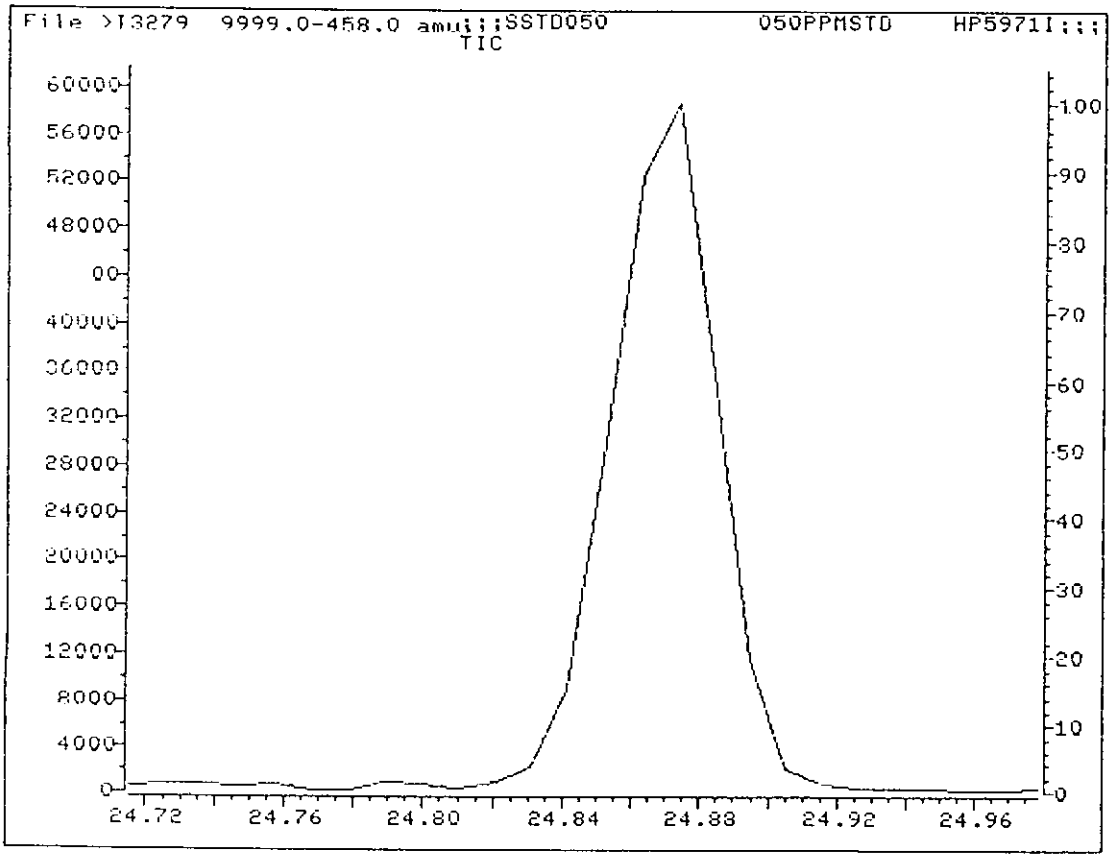
File: >I3279 Scan #: 1889 Retn. time: 24.87

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.85	4.655	100.75	2.284	155.65	2.442	198.75	8.204	264.60	1.031
49.95	10.374	103.75	3.261	157.25	1.009	203.90	4.433	274.90	16.869
50.95	31.074	104.80	2.279	160.10	1.063	204.90	4.563	275.80	1.568
56.10	2.387	106.90	13.212	160.70	2.089	205.95	17.444	276.80	2.246
56.60	3.668	107.80	3.907	164.75	2.382	206.85	3.684	295.70	5.133
62.60	1.123	109.95	30.922	166.85	10.760	210.40	2.116	296.60	1.053
68.85	48.242	110.75	5.144	167.75	3.657	216.75	5.469	302.85	1.004
73.80	5.041	116.80	9.609	172.90	1.015	220.85	6.283	314.15	.998
74.90	9.219	121.85	2.295	173.95	2.279	223.90	9.669	322.85	2.463
77.00	38.785	126.90	40.423	174.85	3.353	224.90	2.914	333.65	1.036
77.95	5.692	127.90	3.684	175.85	2.089	226.75	4.585	364.75	3.630
.85	4.493	128.90	18.736	177.85	3.207	227.95	2.122	371.90	2.230
.85	4.124	129.90	3.592	178.70	5.464	228.65	2.056	403.00	1.036
80.85	4.173	133.55	1.053	179.80	2.491	236.00	.998	420.75	1.112
81.75	1.101	134.85	2.507	185.85	10.597	243.90	8.996	422.80	4.628
84.70	1.042	139.90	1.069	186.75	2.762	245.70	2.328	423.80	1.042
86.00	2.116	140.90	3.798	188.65	1.091	254.90	33.956	440.95	9.186
90.85	1.058	146.35	1.074	191.80	1.096	255.80	5.529	442.05	69.430
92.75	5.670	147.80	3.918	195.75	5.811	256.90	1.096	442.95	14.314
97.90	5.068	153.75	1.085	197.95	100.000	257.80	3.597	443.80	2.311
98.80	4.395								

MS data file header from : >I3279::A3

Sample: ;;;SSTD050 Operator: USER1 2/16/93 8:48
Data : 050PPMSTD_ HP5971I;;;;1;;;I0294
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **05238
Method file: CSCVT Tuning file: N / A No. of extra records: 2

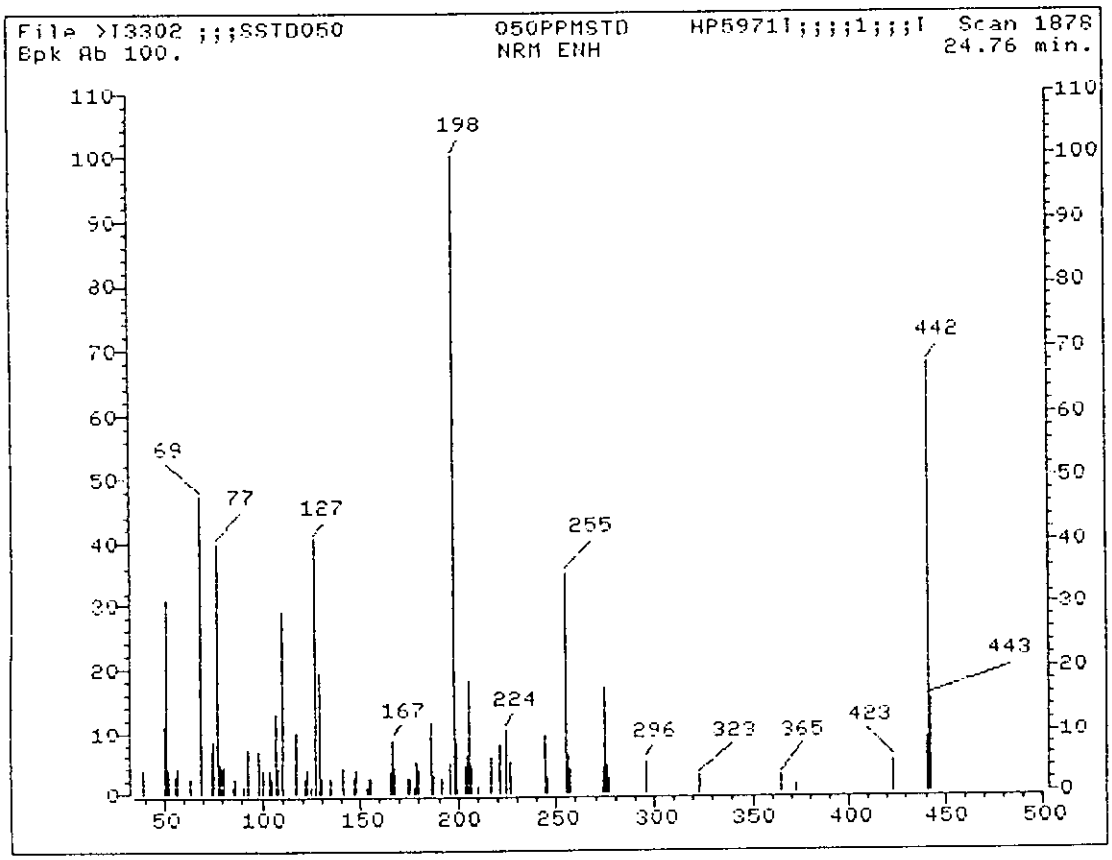
Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >I3302::A3

Sample: ;;;SSTD050 Operator: USER1 2/19/93 10:28
Misc : 050PPMSTD HP5971I;;;;1;;;I0296
S... #: 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD
...thod file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.	0739
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0	
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0	



MS data file header from : >I3302::A3

Sample: ;;;SSTD050 Operator: USER1 2/19/93 10:28
Misc : 050PPMSTD HP5971I;;;;1;;;I0296
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD 0740
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>I3302 ;;;SSTD050 050PPMSTD HP5971I;;;;1;;;I0296
1878 NRM ENH

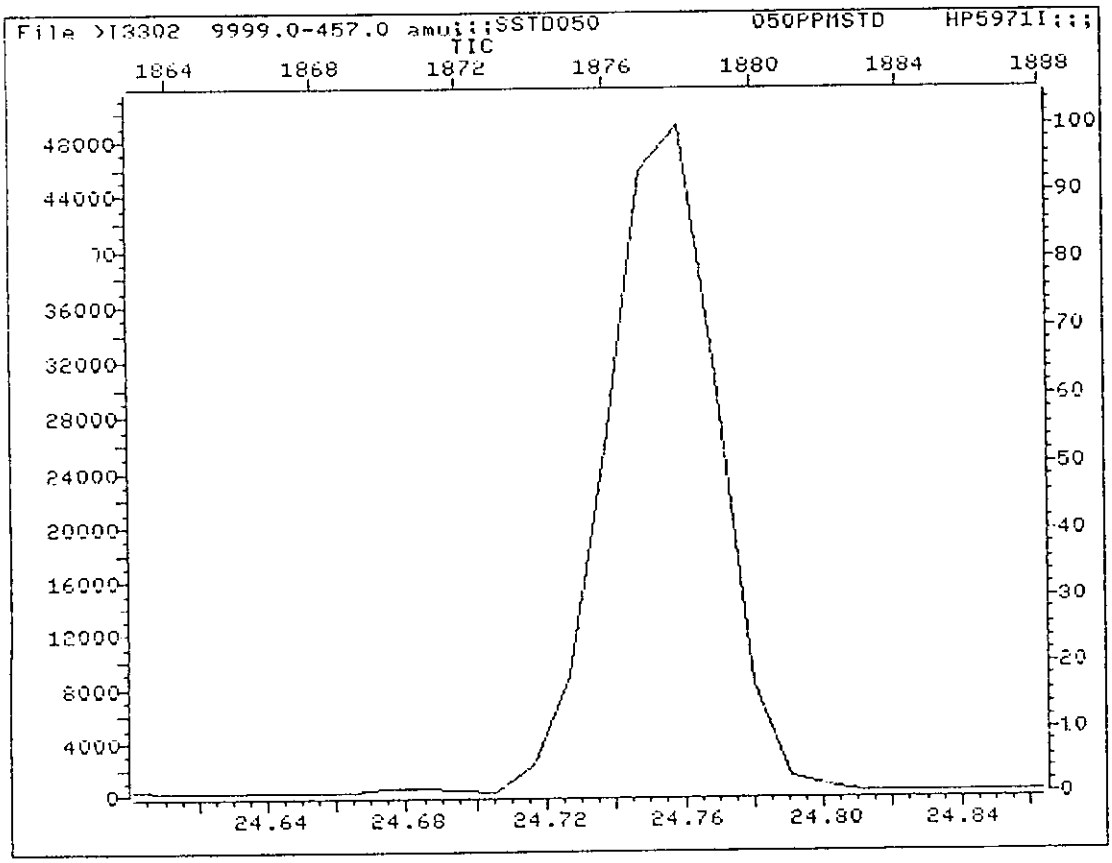
File: >I3302 Scan #: 1878 Retn. time: 24.76

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.85	3.900	91.05	1.164	129.80	2.594	186.75	2.932	245.70	2.409
49.95	10.830	92.85	7.122	134.75	2.366	191.90	2.366	254.90	34.986
50.95	30.680	97.90	6.690	140.70	4.011	195.75	4.972	255.80	6.031
51.80	3.813	98.80	5.668	146.75	2.538	197.95	100.000	257.70	3.924
55.90	2.668	100.65	3.912	147.70	3.813	198.75	8.157	273.90	4.091
56.75	4.202	103.85	3.653	152.75	1.171	203.90	4.633	274.90	16.948
62.80	2.433	104.80	2.477	154.75	2.403	205.00	6.235	275.80	4.516
68.85	47.308	106.90	12.944	155.85	2.403	205.95	18.137	276.80	2.440
73.80	6.752	107.80	4.115	164.75	3.425	206.85	4.423	295.70	5.156
74.90	8.557	109.95	29.035	166.85	8.643	210.70	1.158	322.85	2.643
77.00	39.730	110.75	6.426	167.75	4.257	216.75	5.668	364.75	2.649
.95	4.959	116.80	9.974	173.85	2.384	220.85	7.886	371.90	1.312
.75	4.929	121.85	2.353	174.85	2.581	223.90	10.288	422.90	5.163
79.85	4.245	122.75	3.690	176.95	1.152	224.70	3.906	440.95	9.013
80.75	4.577	124.75	1.177	178.80	5.070	226.75	5.002	442.05	67.576
84.90	1.134	126.90	40.500	179.80	3.813	243.90	9.414	442.95	15.038
85.80	2.397	128.90	19.400	185.85	11.508	244.80	2.464		

MS data file header from : >I3302::A3

S[illegible]le: ;;;SSTD050 Operator: USER1 2/19/93 10:28
M[illegible] : 050PPMSTD _ HP5971I;;;;1;;;I0296
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK86

Lab Name: IEA/CT Contract: C 0742

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: SBLK86

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3280.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK86

Lab Name: IEA/CT Contract: 0743

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: SBLK86

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3280.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.6	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK86

Lab Name: IEA/CT Contract: 0744

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: SBLK86

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3280.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 04 CONC 2/26/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.67	8	J
2.		ALDOL CONDENSATION PRODUCT	8.26	5	JA
3.		UNKNOWN	9.42	3	J
4.		↓	15.23	2	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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30.					

0745

QUANT REPORT

Operator ID: USER1 Quant Rev: 7 Quant Time: 930223 13:54
Output File: ^I3280::A6 Injected at: 930216 10:59
Data File: >I3280::A5 Dilution Factor: .50000
Name: ;;;SBLK 86 Instrument ID: **MSD
Misc: 0211-806 HP5971I;;;LLW;1;;;I0294

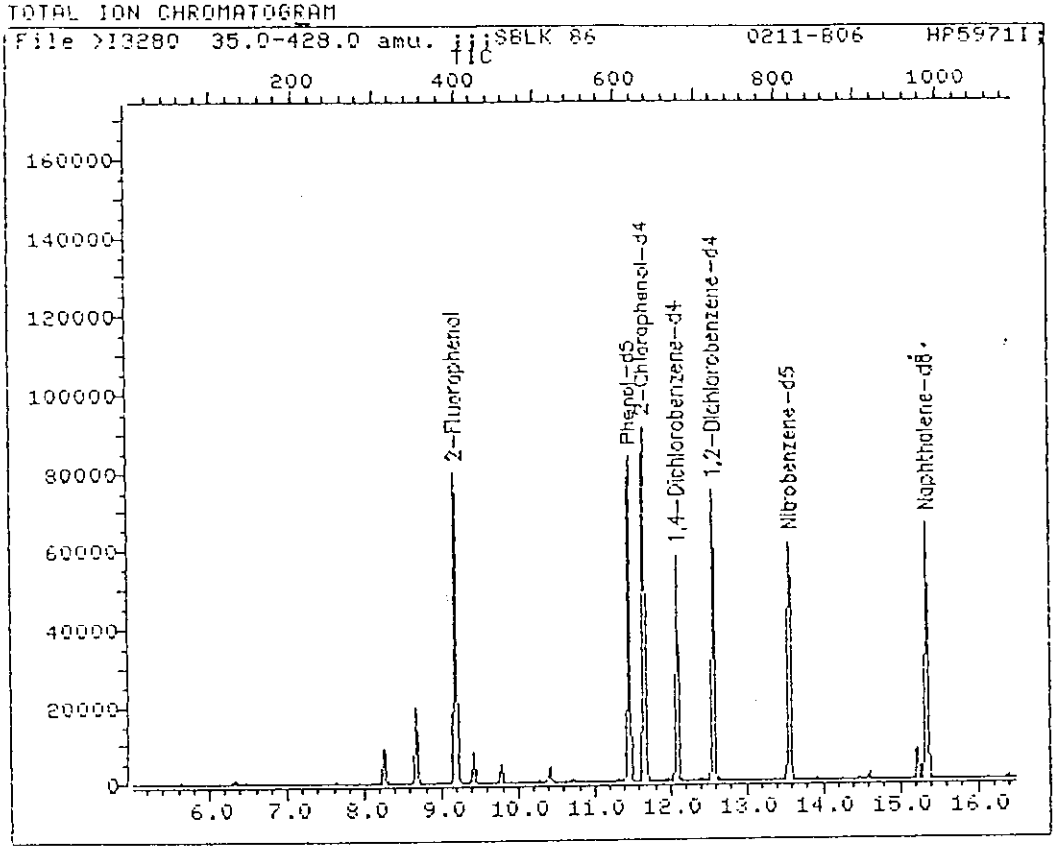
ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.09	151.8	21312	40.00	ug	95
2)	2-Chlorophenol-d4	11.67	132.0	64433	47.69	ug	80
3)	2-Fluorophenol	9.18	111.8	63112	47.04	ug	73
4)	Phenol-d5	11.47	98.8	89386	47.76	ug	62
10)	1,2-Dichlorobenzene-d4	12.57	152.0	29287	32.29	ug	94
17)	*Naphthalene-d8	15.35	135.9	78929	40.00	ug	97
18)	Nitrobenzene-d5	13.57	81.8	48061	32.04	ug	69
31)	*Acenaphthene-d10	20.01	163.9	46491	40.00	ug	98
35)	2-Fluorobiphenyl	18.23	171.8	85983	29.80	ug	97
37)	Diethylphthalate	21.26	149.8	1732	.516	ug	78
51)	2,4,6-Tribromophenol	22.14	329.6	32168	48.38	ug	92
52)	*Phenanthrene-d10	23.90	187.9	87206	40.00	ug	99
61)	Di-n-butylphthalate	25.54	149.8	3549	.627	ug	77
63)	*Chrysene-d12	31.20	240.0	77461	40.00	ug	98
65)	Terphenyl-d14	28.15	244.0	106573	31.25	ug	99
66)	Butylbenzylphthalate	29.49	149.0	575	.201	ug	86
70)	bis(2-Ethylhexyl)phthalate	31.33	149.8	5860	1.69	ug	94
71)	*Perylene-d12	38.02	264.0	79920	40.00	ug	97

* Compound is ISTD

conc 2/28/93

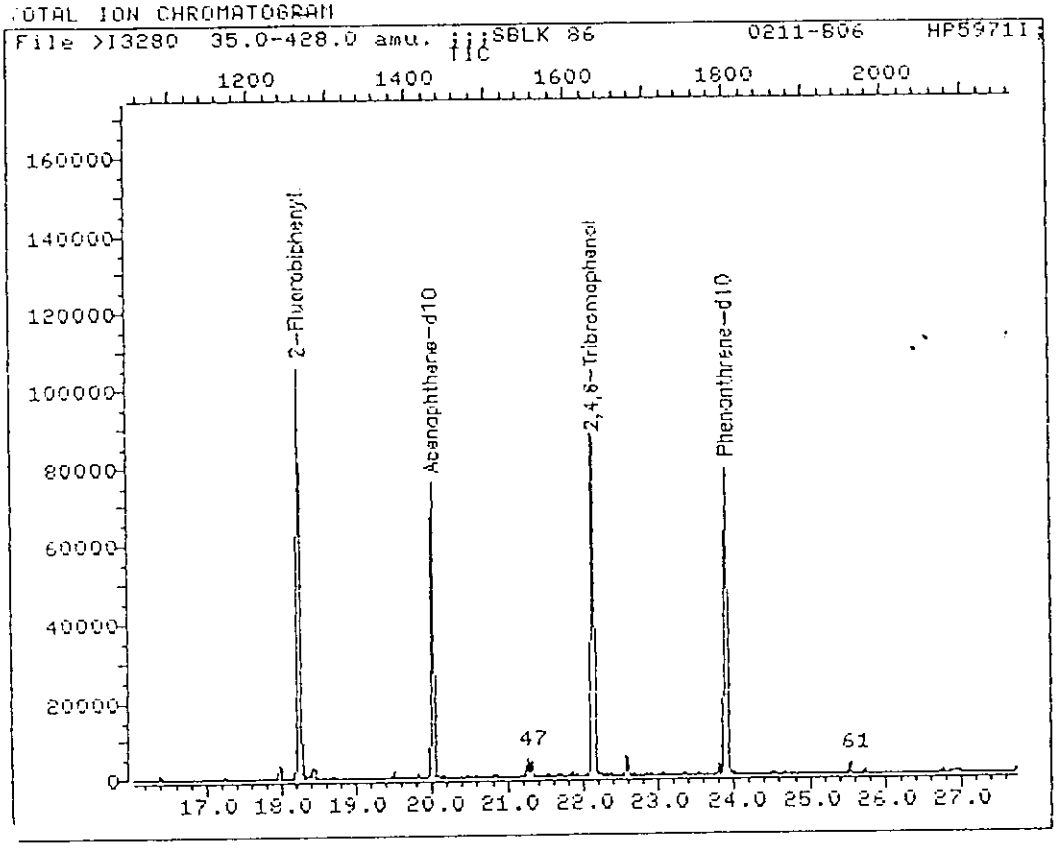
TOTAL ION CHROMATOGRAM



Data File: >I3280::A5 Quant Output File: ^I3280::A6
Name: ;;;SBLK 86 Instrument ID: **MSD
Misc: 0211-B06 HP5971I;;;LLW;1;;;10294

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 13:54
Injected at: 930216 10:59

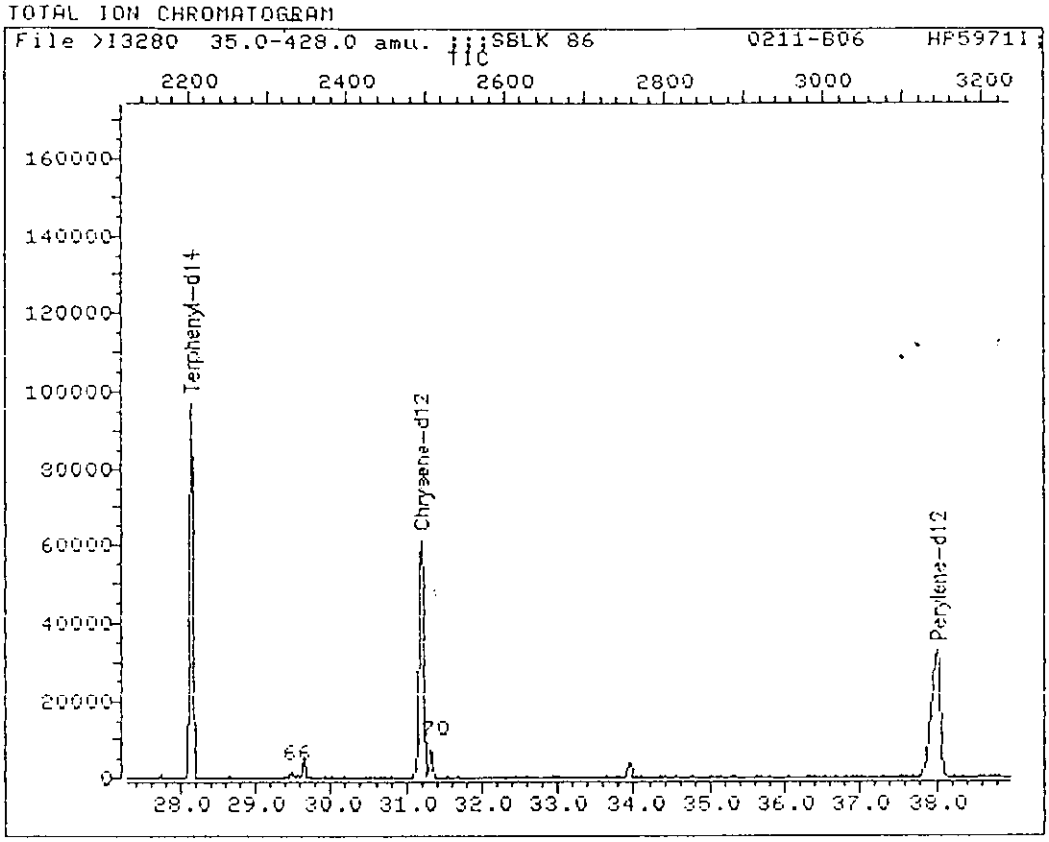


Data File: >I3280::A5 Quant Output File: ^I3280::A6
Name: ;;;SBLK 86 Instrument ID: **MSD
Misc: 0211-B06 HP5971I;;;LLW;1;;;I0294

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 13:54
Injected at: 930216 10:59

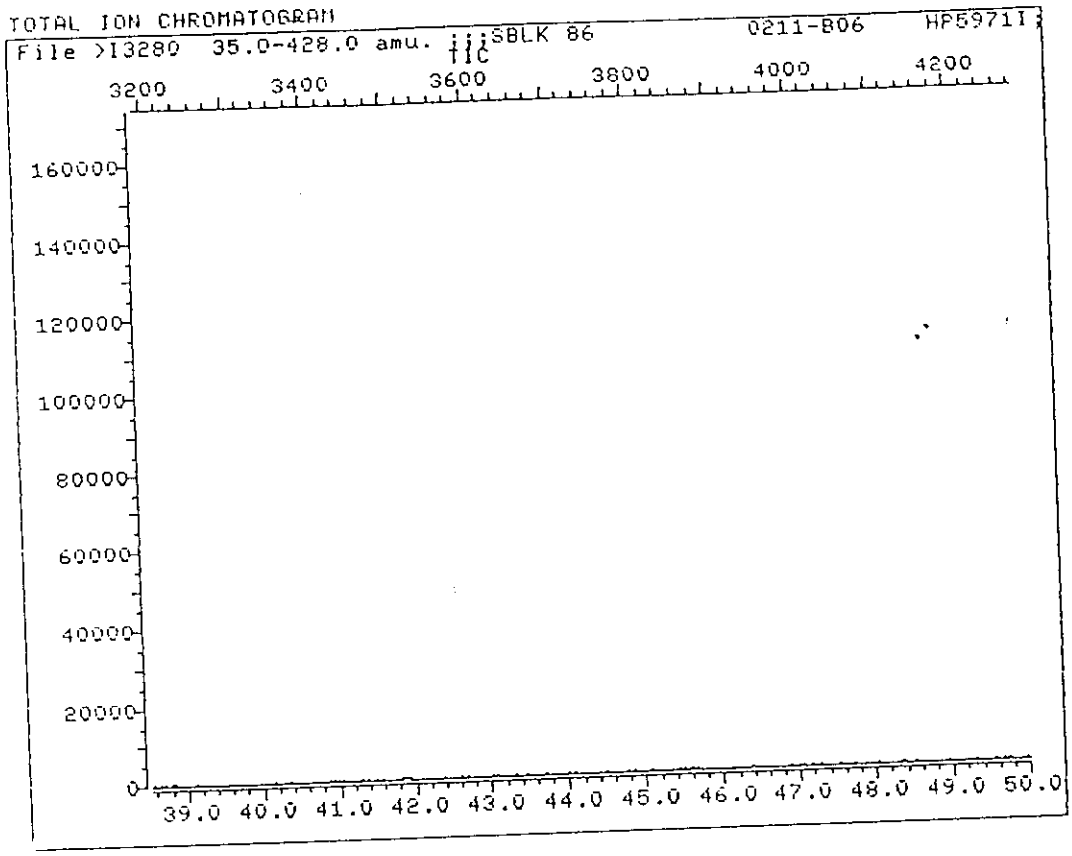
TOTAL ION CHROMATOGRAM



Data File: >I3280::A5 Quant Output File: ^I3280::A6
Name: ;;;SBLK 86 Instrument ID: **MSD
Misc: 0211-B06 HP5971I;;;LLW;1;;;I0294

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

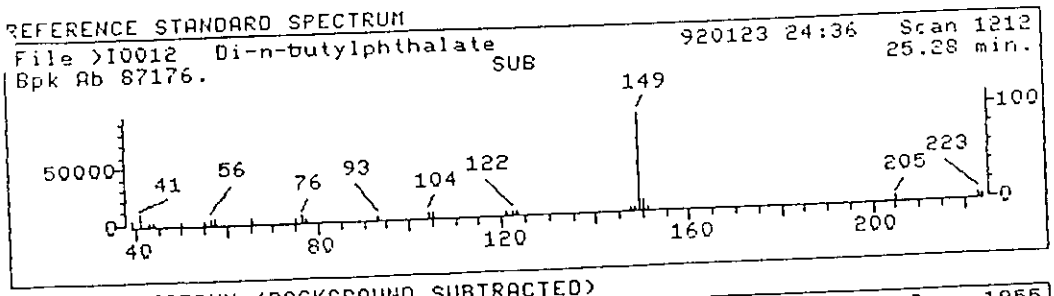
Operator ID: USER1
Quant Time : 930223 13:54
Injected at: 930216 10:59

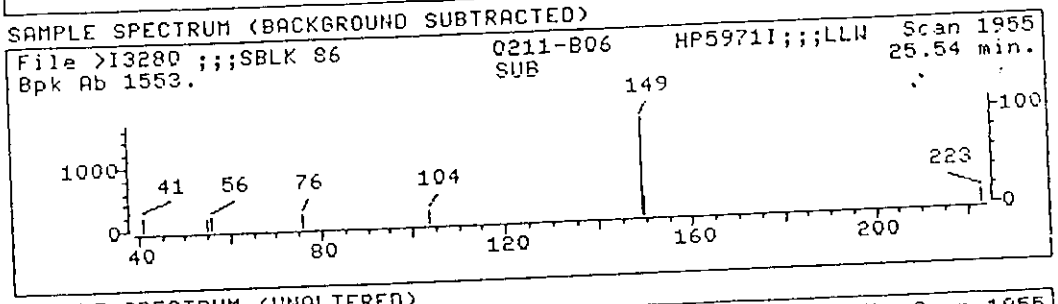


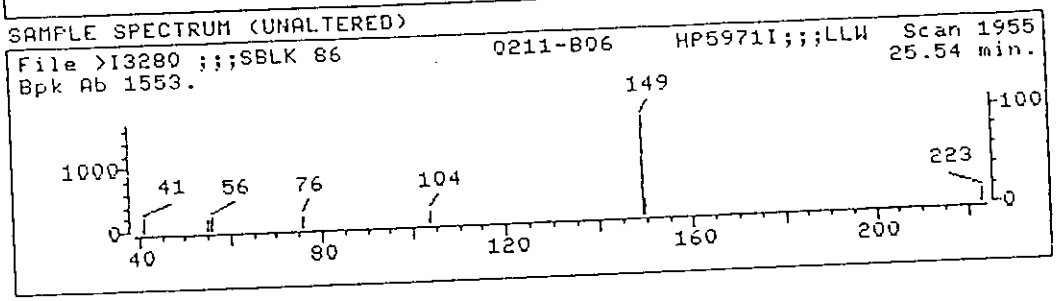
Data File: >I3280::A5 Quant Output File: ^I3280::A6
Name: ;;;SBLK 86 Instrument ID: **MSD
Misc: 0211-B06 HP5971I;;;LLW;1;;;I0294

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 13:54
Injected at: 930216 10:59





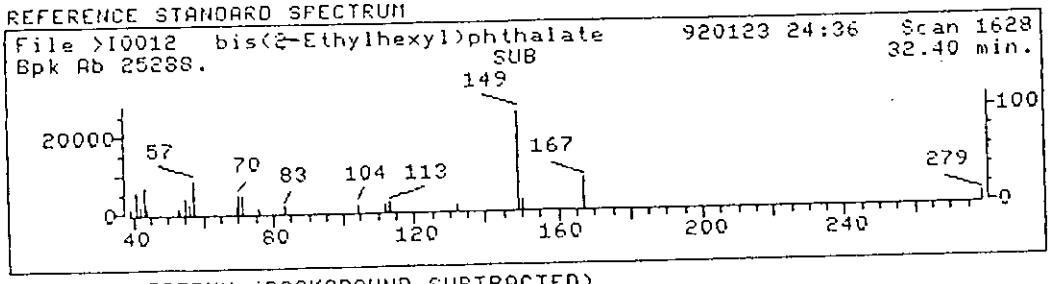


Data File: >I3280::A3
Name: ;;;SBLK 86
Misc: 0211-B06 HP5971I;;;LLW;1;;;I0294
Quant Time: 930216 11:54
Injected at: 930216 10:59
Last Qcal Time: 930216 08:48

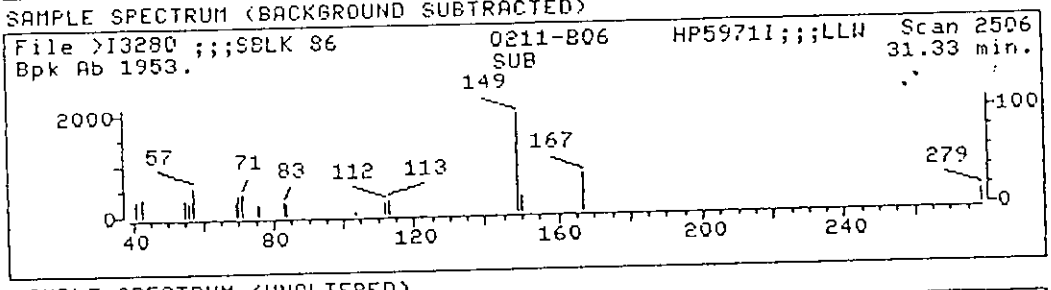
Quant Output File: ^I3280::A6
Instrument ID: **MSD
Quant ID File: I_IFI::A5
Last Calibration: 910116 11:52

Compound No : 61
Compound Name : Di-n-butylphthalate
Scan Number : 1955
Retention Time: 25.54 min.
Quant Ion : 148.8
Area : 3549
Concentration : .627 ug
q-value : 77

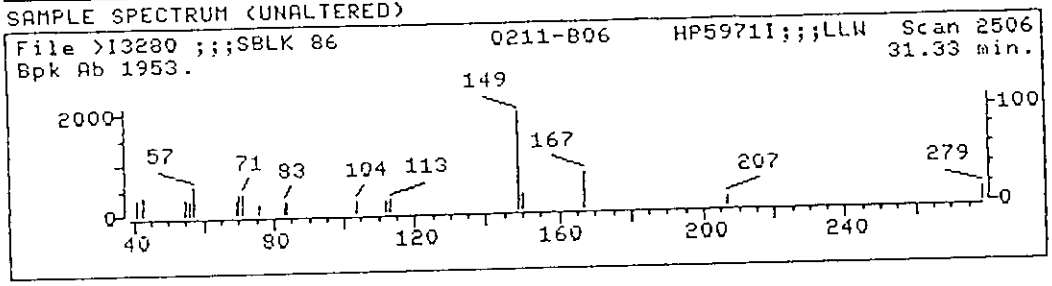
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >I3280::A3
Name: ;;;SBLK 86
Misc: 0211-B06 HP5971I;;;LLW;1;;;I0294
Quant Time: 930216 11:54
Injected at: 930216 10:59
Last Qcal Time: 930216 08:48

Quant Output File: ^I3280::A6
Instrument ID: **MSD
Quant ID File: I_IFI::A5
Last Calibration: 910116 11:52

Compound No : 70
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 2506
Retention Time: 31.33 min.
Quant Ion : 148.8
Area : 5860
Concentration : 1.63 ug
q-value : 94

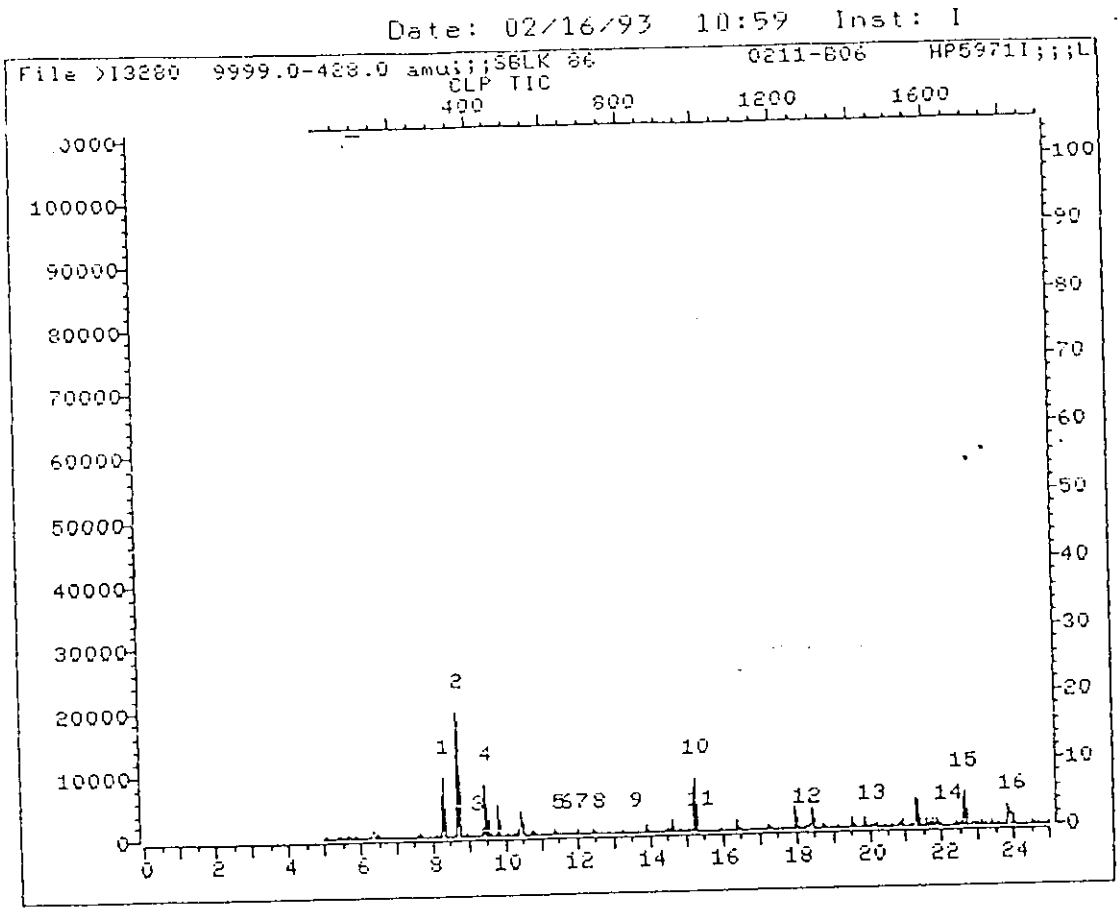
GC/MS Top Level. Select a softkey... *KSHEL Keys <891130.1303>

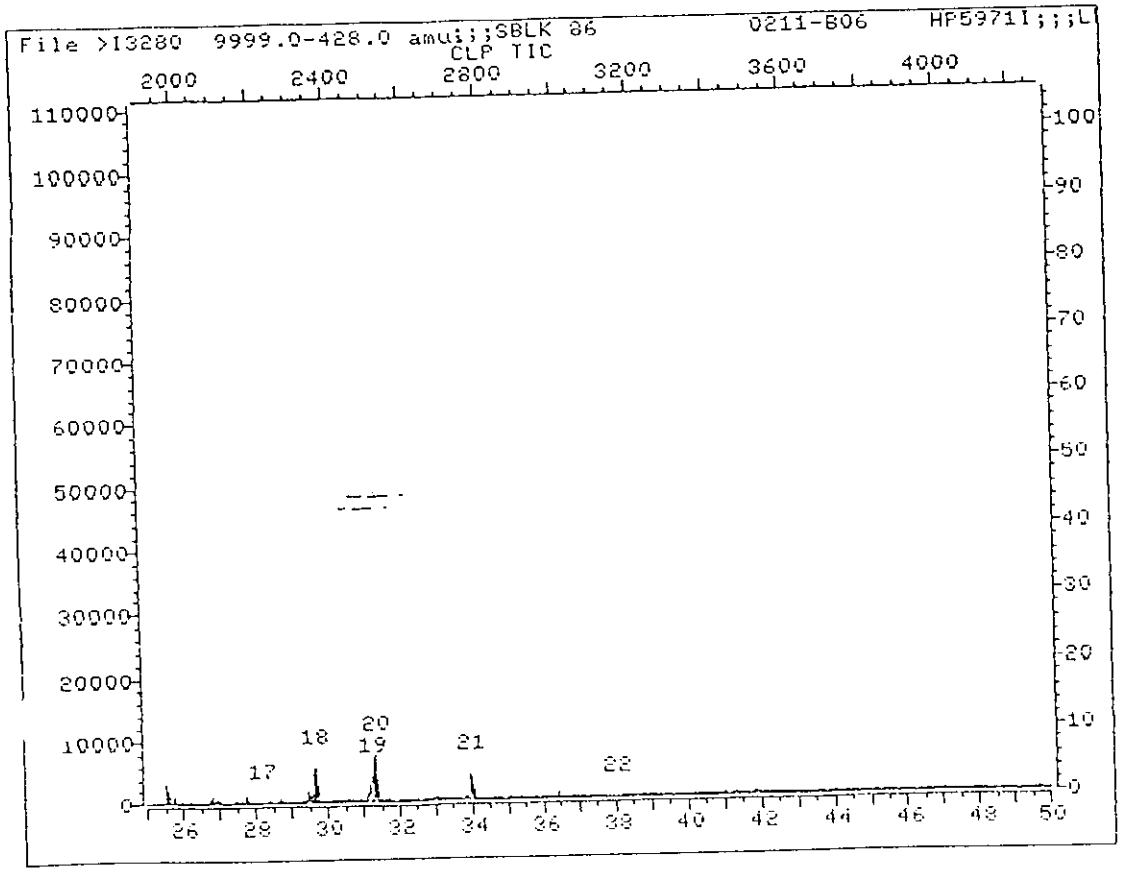
0752

MS data file header from : >I3280::A3

Sample: ;;;SBLK 86 Operator: USER1 2/16/93 10:59
Misc : 0211-B06 HP5971I;;;LLW;1;;;I0294
Sys. #: 1 MS model: 71 SW/HW rev.: FF ALS # : 1 Equip ID: **MSD
Method file: CSCVT Tuning file: N / A No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0


Date: 02/16/93 10:59 Inst: I
File >I3280 9999.0-428.0 amu;;;SBLK 86 0211-B06 HP5971I;;;L
CLP TIC
400 800 1200 1600
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
100
90
80
70
60
50
40
30
20
10
0
0 2 4 6 8 10 12 14 16 18 20 22 24
1 2 3 4 5 7 8 9 10 11 12 13 14 15 16


File >I3280 9999.0-428.0 amu;;;SBLK 86 0211-B06 HP5971I;;;L
CLP TIC
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110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
100
90
80
70
60
50
40
30
20
10
0
26 28 30 32 34 36 38 40 42 44 46 48 50
17 18 19 20 21 22

Date: 02/16/93 10:59 Inst: I

SBLK86
HP597(I
0754

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
2.	8.67	44255.	8.	1.	.50
1.	8.26	19076.	3.	1.	.50
4.	9.42	15564.	3.	1.	.50
10.	15.23	16627.	2.	2.	.50

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.09	115612.	0.00	13.72	5.4
NAPHTHALENE-D8	15.35	154664.	13.72	17.68	2.0
ACENAPHTHENE-D10	20.01	194936.	17.68	21.96	4.2
PHENANTHRENE-D10	23.90	222446.	21.96	27.55	2.6
CHRYSENE-D12	31.20	250875.	27.55	34.61	3.2
PERYLENE-D12	38.01	256907.	34.61	38.02	3.2

ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	4
Target peaks matched:	1
Total TIC identified:	4

TICS : 11:37 AM MON., 22 FEB., 1993

0755

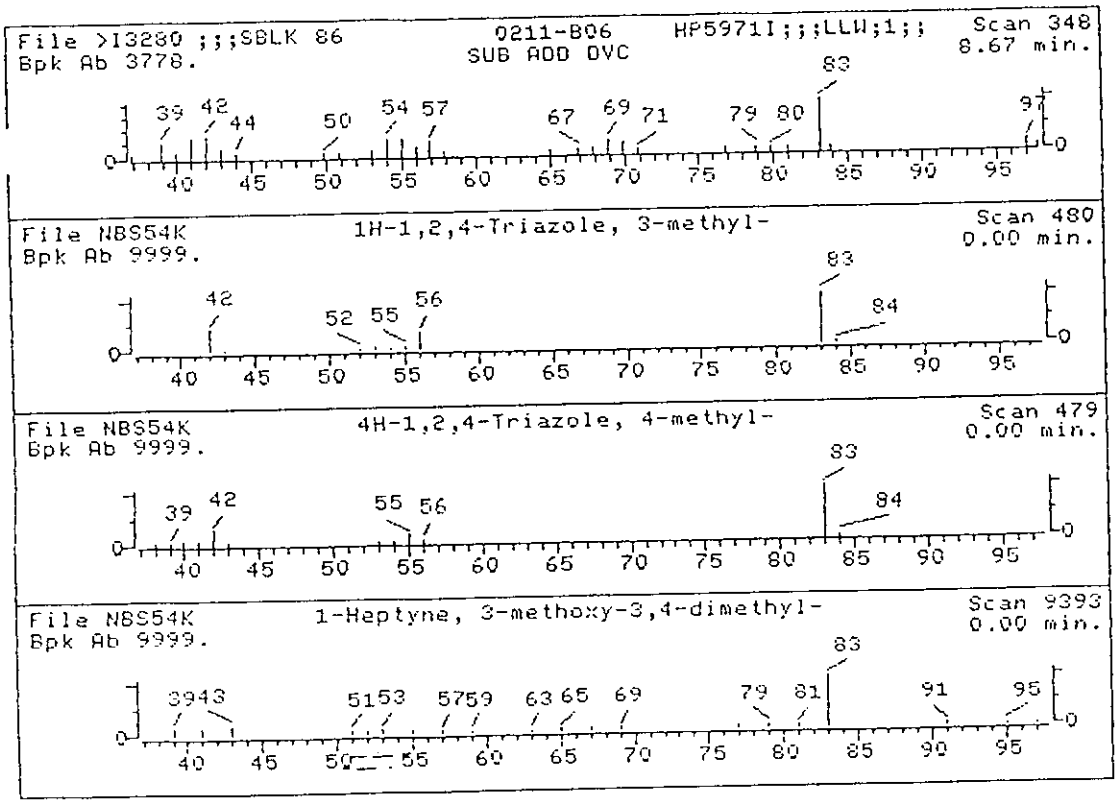
1. 1H-1,2,4-Triazole, 3-methyl-
2. 4H-1,2,4-Triazole, 4-methyl-
3. 1-Heptyne, 3-methoxy-3,4-dimethyl-

83 C3H5N3
83 C3H5N3
154 C10H18O

Sample file: >I3280 Spectrum #: 348
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG,	TILT	%	CON	C_I	R_IV
1.	27*	7170016	6459	NBS54K	22	33	2	0	99	37	10	13
2.	26*	10570408	6458	NBS54K	21	54	1	0	100	42	8	14
3.	15	54244927	6526	NBS54K	35	39	2	0	100	58	3	12

Peak#: 2 Area: 44255. Est Conc: 8. Date: 02/16/93 10:59 Inst: I

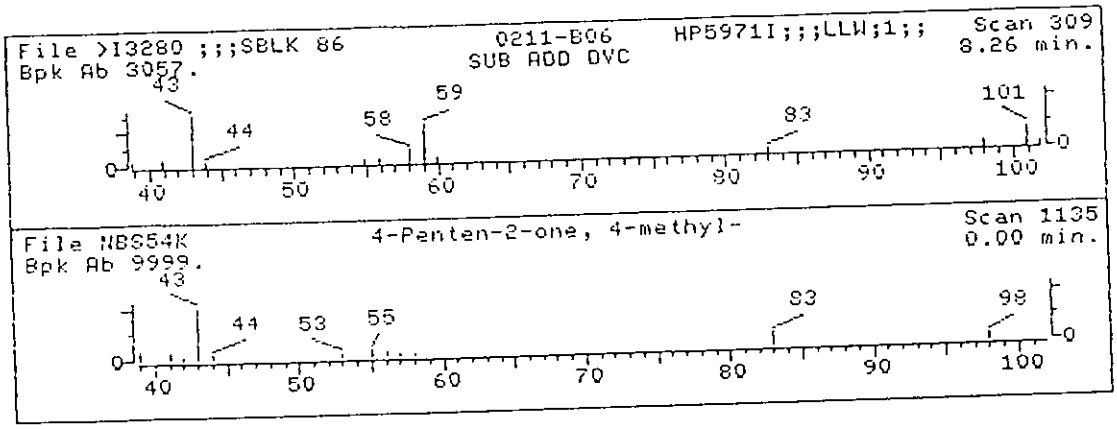


1. 4-Penten-2-one, 4-methyl- 98 C6H10O

Sample file: >I3280 Spectrum #: 309
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	26*	3744023	9897	NBS54K	26	53	2	0	77	43	8	14

Peak#: 1 Area: 19076. Est Conc: 3. Date: 02/16/93 10:59 Inst: I

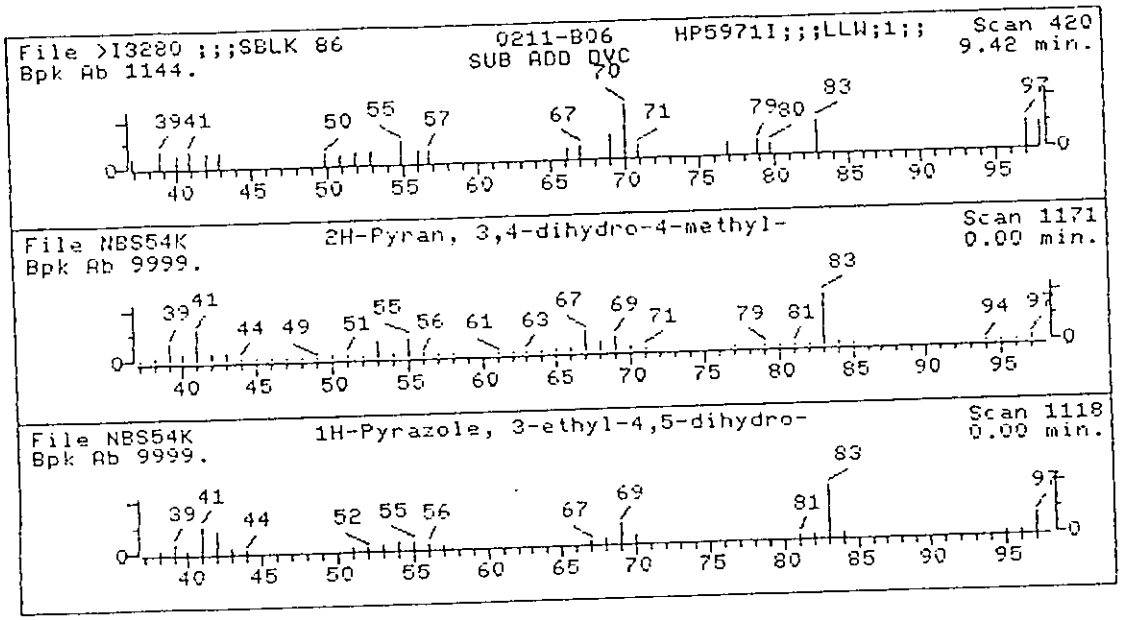


1. 2H-Pyran, 3,4-dihydro-4-methyl- 98 C6H10O
2. 1H-Pyrazole, 3-ethyl-4,5-dihydro- 98 C5H10N2

Sample file: >13280 Spectrum #: 420
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11*	2270613	9912	NBS54K	25	76	3	0	58	62	2	13
2.	11*	5920296	9888	NBS54K	26	78	3	0	58	63	2	13

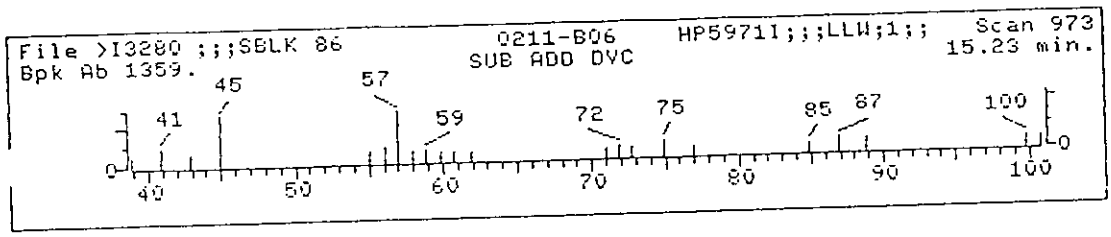
Peak#: 4 Area: 15564. Est Conc: 3. Date: 02/16/93 10:59 Inst: 1



Sample file: >I3280 Spectrum #: 973

No data base entries were retrieved.

Peak#: 10 Area: 16627. Est Conc: 2. Date: 02/16/93 10:59 Inst: I



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSBMW-45 0759

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009MSB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3281.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	38	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	41	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	30	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	34	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	30	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	46	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	30	

0760

EPA SAMPLE NO.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MSBMW-45

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009MSB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3281.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	57	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	34	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	44	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	27	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.5	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

QUANT REPORT

Quant Rev: 7

Operator ID: USER1
Output File: ^I3281::A6
Data File: >I3281::A5
Name: 0148;;;MSB MW-45
Misc: 0148009MSB HP5971I;0210931;021193;LLW;1;;;I0

Quant Time: 930223 13:57
Injected at: 930216 12:01
Dilution Factor: .50000
Instrument ID: **MSD

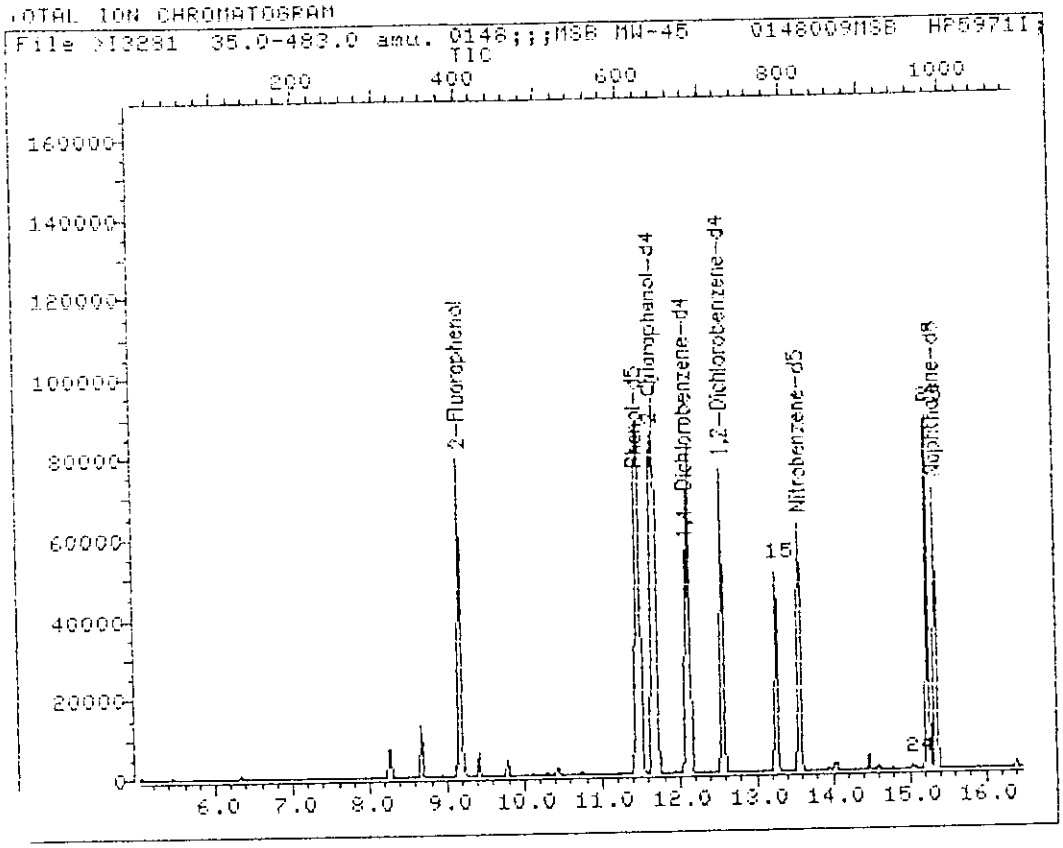
ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *1,4-Dichlorobenzene-d4	12.09	151.8	21886	40.00	ug	94
2) 2-Chlorophenol-d4	11.67	132.0	63209	45.56	ug	80
3) 2-Fluorophenol	9.18	111.8	62263	45.19	ug	72
4) Phenol-d5	11.46	98.8	86330	44.92	ug	63
5) Phenol	11.50	93.9	71154M	38.47	ug	
7) 2-Chlorophenol	11.71	127.8	59380	41.16	ug	85
9) 1,4-Dichlorobenzene	12.13	146.7	44091	29.52	ug	90
10) 1,2-Dichlorobenzene-d4	12.56	152.0	29810	32.00	ug	94
) N-Nitroso-di-n-propylamine	13.27	69.9	30861	34.14	ug	67
17) *Naphthalene-d8	15.35	135.9	80760	40.00	ug	97
18) Nitrobenzene-d5	13.57	81.8	48904	31.87	ug	71
~~24) 2,4-Dichlorophenol~~	~~15.86~~	~~161.7~~	~~571~~	~~.440~~	~~ug~~	~~62~~
25) 1,2,4-Trichlorobenzene	15.25	179.7	44170	30.23	ug	97
29) 4-Chloro-3-methylphenol	16.94	106.9	67474	45.70	ug	86
31) *Acenaphthene-d10	20.01	163.9	48978	40.00	ug	98
35) 2-Fluorobiphenyl	18.24	171.8	85071	27.99	ug	97
42) Acenaphthene	20.11	152.9	73476	29.98	ug	99
44) 4-Nitrophenol	20.52	108.8	22545	56.80	ug	67
46) 2,4-Dinitrotoluene	20.63	164.8	40071	34.00	ug	73
51) 2,4,6-Tribromophenol	22.13	329.6	32494	46.39	ug	93
52) *Phenanthrene-d10	23.90	187.9	92288	40.00	ug	97
57) Pentachlorophenol	23.59	265.6	32248	43.59	ug	98
63) *Chrysene-d12	31.20	240.0	79475	40.00	ug	97
64) Pyrene	27.73	201.9	136438	26.70	ug	98
65) Terphenyl-d14	28.15	244.0	107402	30.69	ug	99
~~66) Butylbenzylphthalate~~	~~29.48~~	~~148.8~~	~~385~~	~~.131~~	~~ug~~	~~80~~
70) bis(2-Ethylhexyl)phthalate	31.33	148.8	1786	.502	ug	81
71) *Perylene-d12	38.00	264.0	81360	40.00	ug	94

* Compound is ISTD

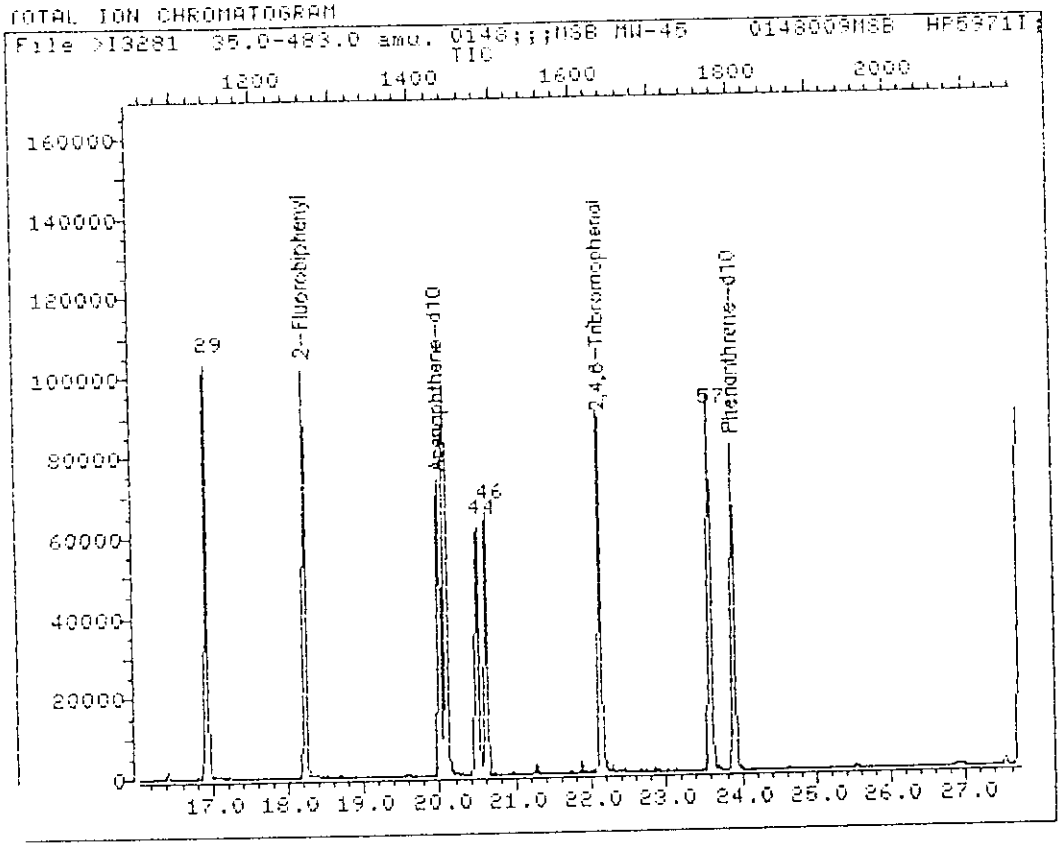
2/24/93



Data File: >I3281::A5 Quant Output File: ^I3281::A6
Name: 0148;;;MSB MW-45 Instrument ID: **MSD
Misc: 0148009MSB HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

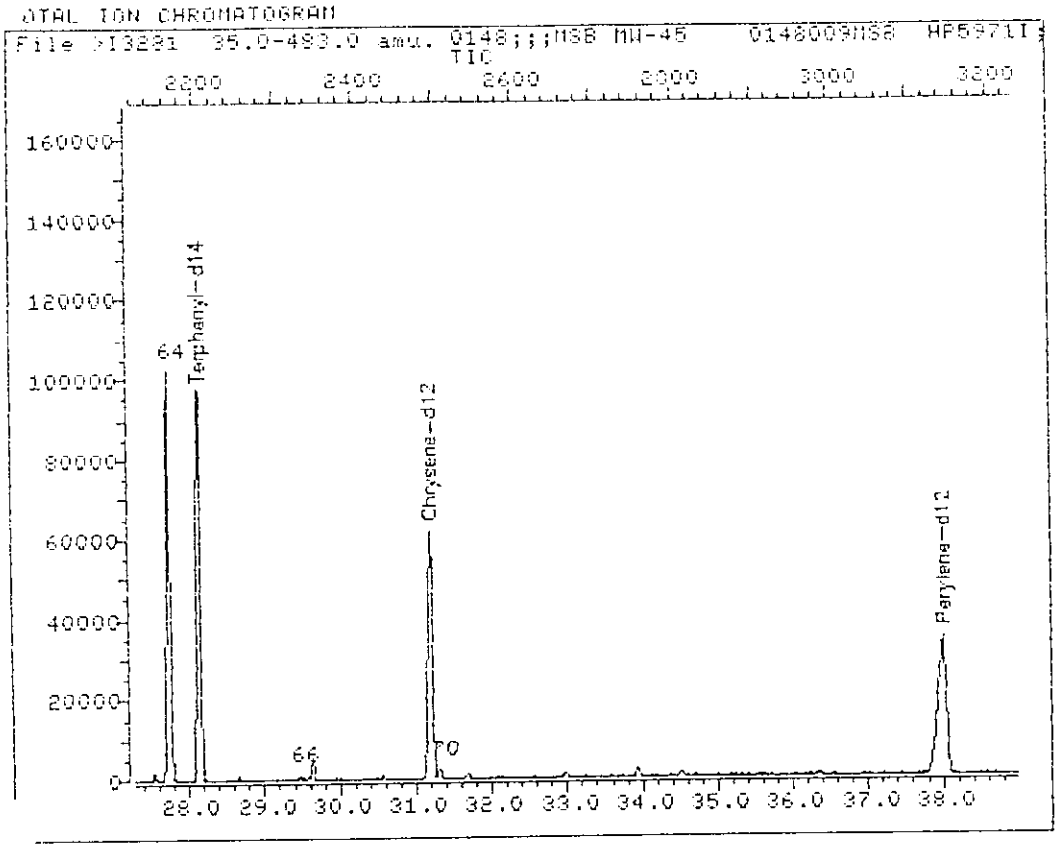
Operator ID: USER1
Quant Time : 930223 13:57
Injected at: 930216 12:01



Data File: >I3281::A5 Quant Output File: ^I3281::A6
Name: 0148;;;MSB MW-45 Instrument ID: **MSD
Misc: 0148009MSB HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

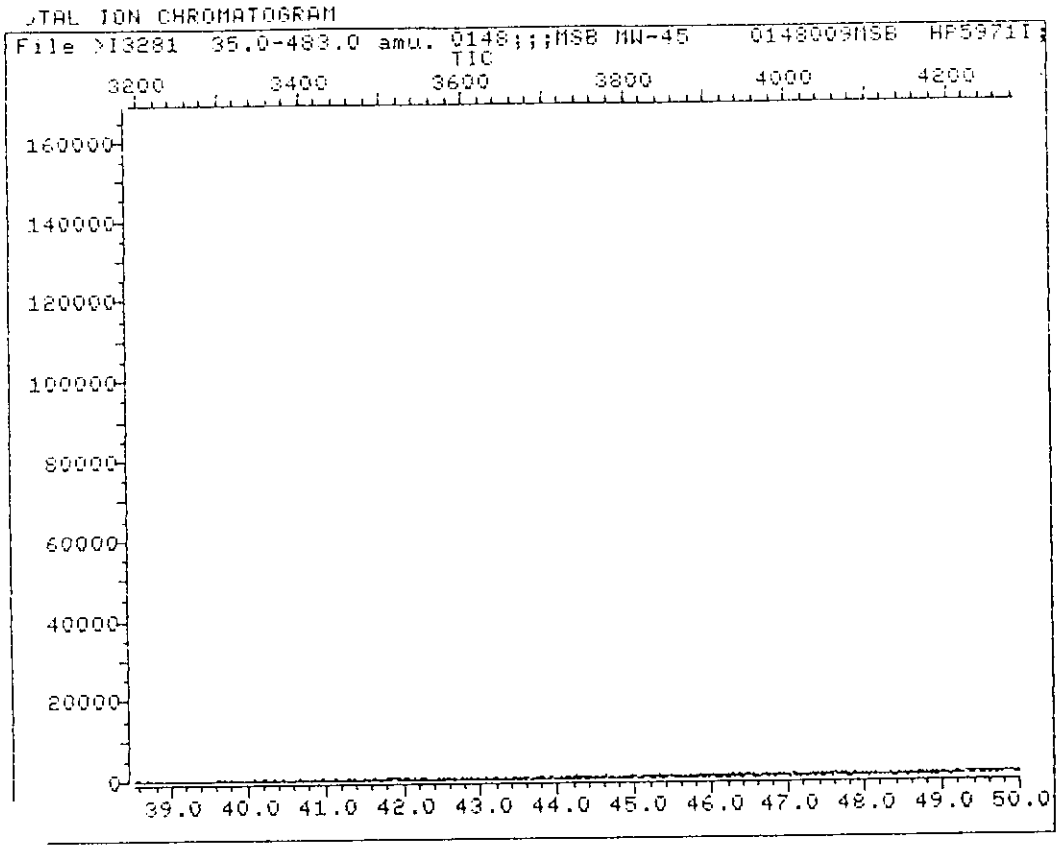
Operator ID: USER1
Quant Time : 930223 13:57
Injected at: 930216 12:01



Data File: >I3281::A5 Quant Output File: ^I3281::A6
Name: 0148;;;MSB MW-45 Instrument ID: **MSD
Misc: 0148009MSB HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 13:57
Injected at: 930216 12:01



Data File: >I3281::A5 Quant Output File: ^I3281::A6
Name: 0148;;;MSB MW-45 Instrument ID: **MSD
Misc: 0148009MSB HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-QLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 13:57
Injected at: 930216 12:01

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0766

EPA SAMPLE NO.

MW-45MS

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009MS

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3283.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	38	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	40	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	31	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	37	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	34	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	46	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	28	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0767
EPA SAMPLE NO.

MW-45MS

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009MS

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3283.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	80	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	43	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	51	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.4	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.6	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

QUANT REPORT

Operator ID: USER1
Output File: ^I3283::A6
Data File: >I3283::A4
Name: 0148;;;MW-45
Misc: 0148009MS HP5971I;0210931;021193;LLW;1;;;I0

Quant Rev: 7 Quant Time: 930223 14:07
Injected at: 930216 14:04
Dilution Factor: .51000
Instrument ID: **MSD

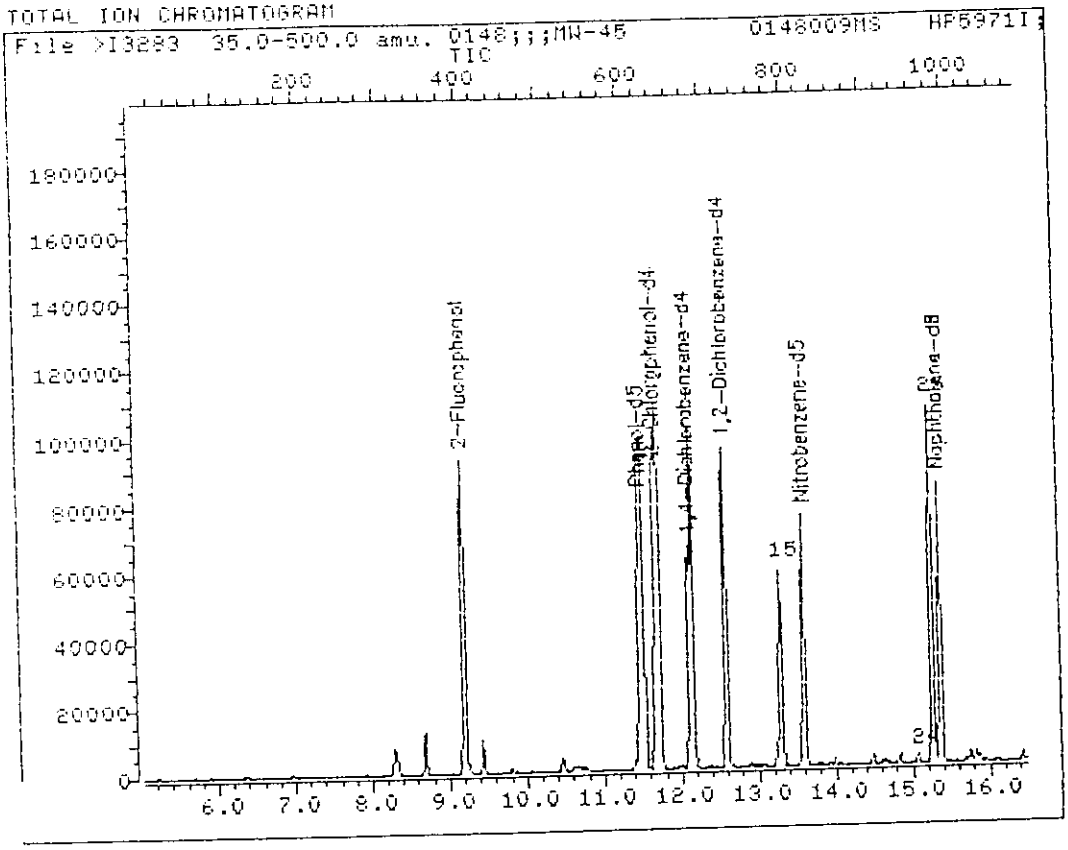
ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *1,4-Dichlorobenzene-d4	12.11	151.8	26583	40.00	ug	96
2) 2-Chlorophenol-d4	11.68	132.0	77306	46.79	ug	80
3) 2-Fluorophenol	9.19	111.8	75763	46.17	ug	75
4) Phenol-d5	11.48	98.8	104947	45.86	ug	64
5) Phenol	11.53	93.9	83132	37.75	ug	62
7) 2-Chlorophenol	11.73	127.8	68668	39.97	ug	86
9) 1,4-Dichlorobenzene	12.16	145.7	55072	30.97	ug	88
11) 1,2-Dichlorobenzene-d4	12.59	152.0	37938	34.20	ug	95
) N-Nitroso-di-n-propylamine	13.30	69.9	39937	37.10	ug	68
17) *Naphthalene-d8	15.37	135.9	100458	40.00	ug	93
18) Nitrobenzene-d5	13.60	81.8	66119	35.33	ug	74
~~24) 2,4-Dichlorophenol~~	~~15.09~~	~~161.7~~	~~763~~	~~.482~~	~~ug~~	~~58~~
25) 1,2,4-Trichlorobenzene	15.27	179.7	59377	33.33	ug	94
29) 4-Chloro-3-methylphenol	16.97	106.9	82697	45.93	ug	85
31) *Acenaphthene-d10	20.03	163.9	58049	40.00	ug	97
35) 2-Fluorobiphenyl	18.25	171.8	107890	30.55	ug	98
~~39) Acenaphthylene~~	~~19.60~~	~~152.0~~	~~5087~~	~~1.88~~	~~ug~~	~~90~~
42) Acenaphthene	20.12	152.9	78745	27.65	ug	97
44) 4-Nitrophenol	20.55	108.8	36542	79.23	ug	59
46) 2,4-Dinitrotoluene	20.66	164.8	58689	42.86	ug	76
~~49) Diethylphthalate~~	~~21.30~~	~~140.0~~	~~1483~~	~~.337~~	~~ug~~	~~47~~
51) 2,4,6-Tribromophenol	22.15	329.6	30973	38.06	ug	92
52) *Phenanthrene-d10	23.94	187.9	109779	40.00	ug	97
57) Pentachlorophenol	23.62	265.6	43933	50.92	ug	96
61) Di-n-butylphthalate	25.56	148.8	3154	.451	ug	72
63) *Chrysene-d12	31.25	240.0	98632	40.00	ug	98
64) Pyrene	27.77	201.9	124758	20.06	ug	99
65) Terphenyl-d14	28.18	244.0	119121	27.98	ug	98
~~66) Butylbenzylphthalate~~	~~29.52~~	~~149.0~~	~~1645~~	~~.461~~	~~ug~~	~~46~~
70) bis(2-Ethylhexyl)phthalate	31.35	148.8	2767	.639	ug	96
71) *Perylene-d12	38.12	264.0	107141	40.00	ug	97

* Compound is ISTD

GMC 2/28/93



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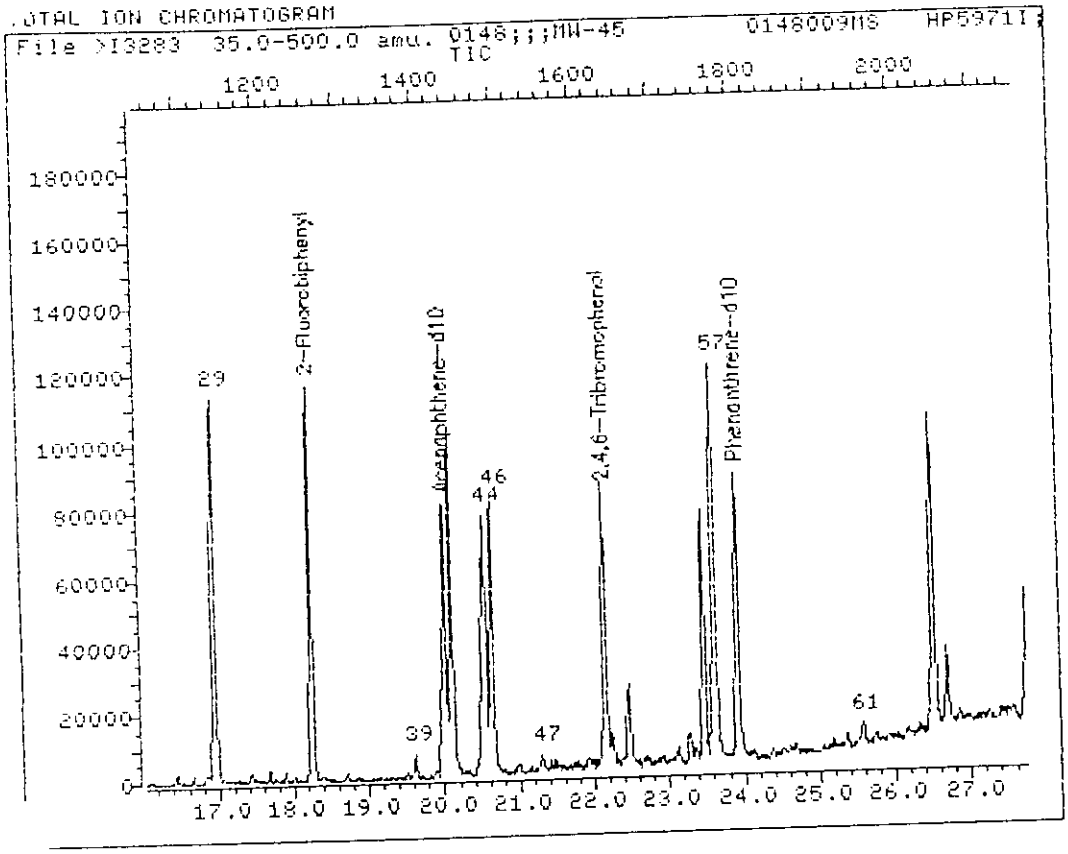
Name: 0148;;;MW-45 Instrument ID: **MSD
Misc: 0148009MS HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:07
Injected at: 930216 14:04



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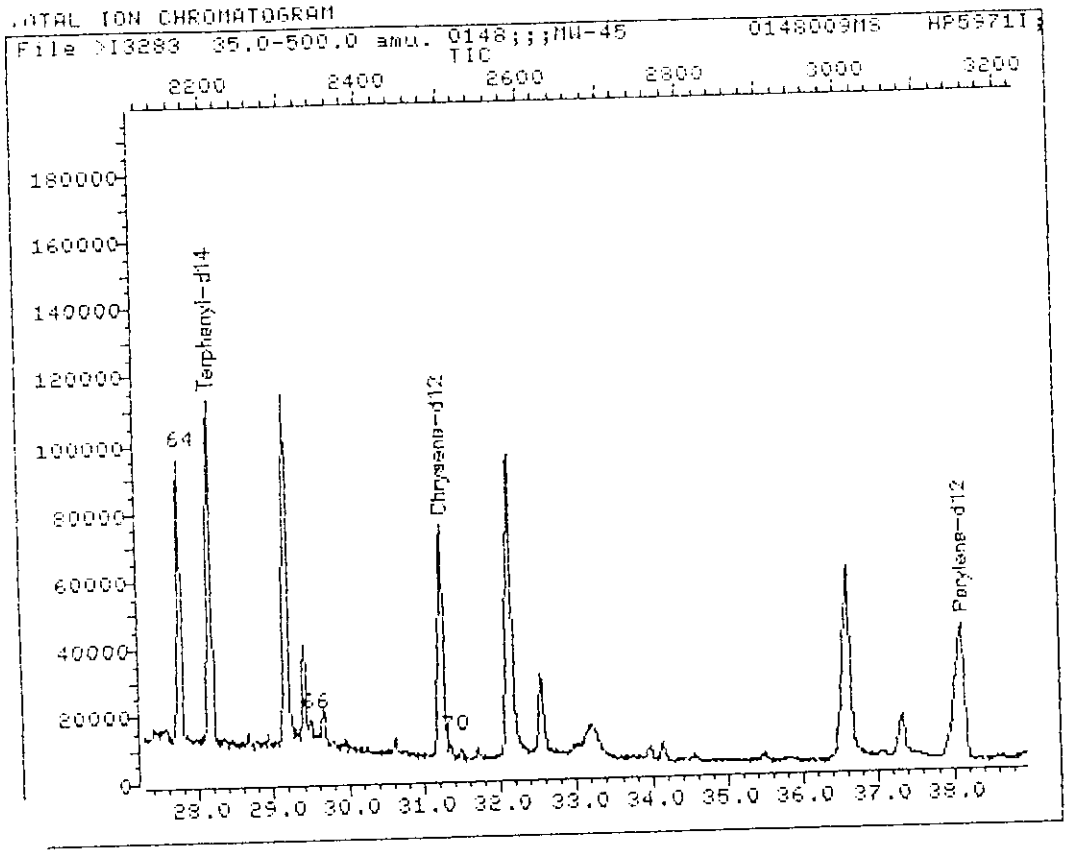
Misc: 0148009MS HP5971I;0210931;021193;LLW;1;;;10

Quant Output File: ^I3283::A6
Instrument ID: **MSD

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:07
Injected at: 930216 14:04



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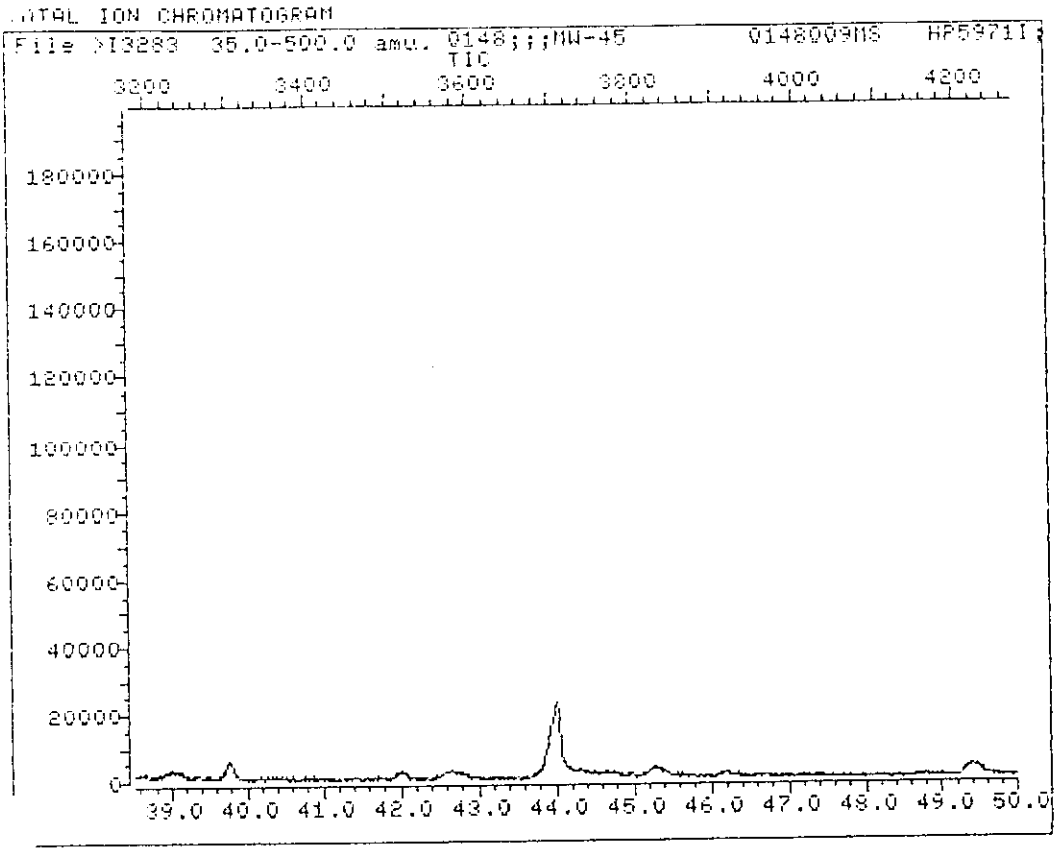
Misc: 0148009MS HP59711;021093l;021193;LLW;1;;;I0

Quant Output File: ^I3283::A6
Instrument ID: **MSD

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:07
Injected at: 930216 14:04



Data File: >I3283::A4 Quant Output File: ^I3283::A6
Name: 0148;;;MW-45 Instrument ID: **MSD
Misc: 0148009MS HP5971I;0210931;021193;LLW;1;;;I0

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52 Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:07
Injected at: 930216 14:04

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-45MSD

Lab Name: IEA/CT Contract: 0773

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009MSD

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3284.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	42	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	44	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	32	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	35	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	33	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	49	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	29	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0774 | MW-45MSD

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009MSD

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3284.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	56	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	38	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	54	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.4	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	22	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

QUANT REPORT

Operator ID: USER1
Output File: ^I3284::A6
Data File: >I3284::A4
Name: 0148;;;MW-45
Misc: 0148009MSD HP5971I;0210931;021193;LLW;1;;;I0

Quant Rev: 7 Quant Time: 930223 14:11
Injected at: 930216 19:08
Dilution Factor: .51000
Instrument ID: **MSD

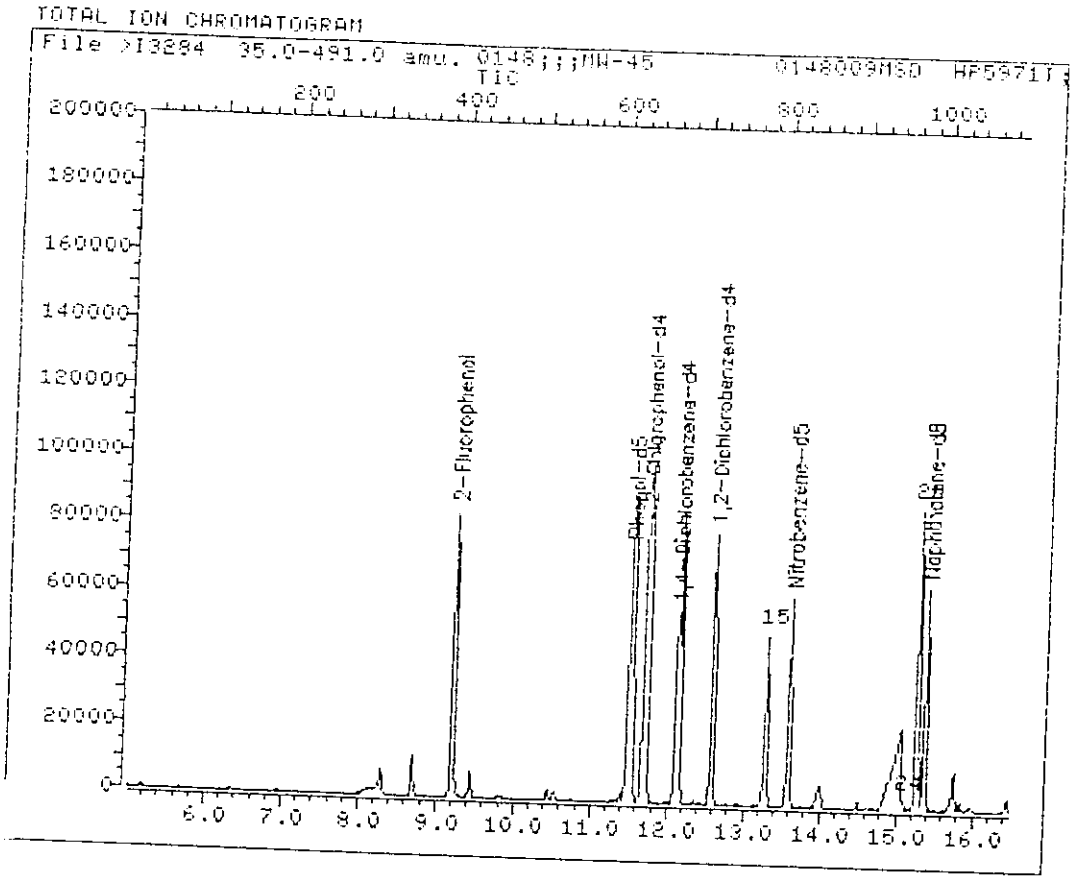
ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.11	151.8	22213	40.00	ug	94
2)	2-Chlorophenol-d4	11.69	132.0	67110	48.61	ug	80
3)	2-Fluorophenol	9.20	111.8	66310	48.36	ug	73
4)	Phenol-d5	11.49	98.8	90307	47.22	ug	62
5)	Phenol	11.53	93.9	76534M	41.59	ug	
7)	2-Chlorophenol	11.73	127.8	62410	43.48	ug	84
9)	1,4-Dichlorobenzene	12.16	145.7	47000	31.63	ug	89
10)	1,2-Dichlorobenzene-d4	12.59	152.0	31230	33.70	ug	96
)	N-Nitroso-di-n-propylamine	13.30	69.9	31382	34.89	ug	66
17)	*Naphthalene-d8	15.38	135.9	80050	40.00	ug	97
18)	Nitrobenzene-d5	13.60	81.8	52258	35.04	ug	72
~~24)~~	~~2,4-Dichlorophenol~~	~~15.11~~	~~161.7~~	~~566~~	~~.449~~	~~ug~~	~~54~~
25)	1,2,4-Trichlorobenzene	15.28	179.7	47136	33.20	ug	99
29)	4-Chloro-3-methylphenol	16.98	106.9	70602	49.21	ug	86
31)	*Acenaphthene-d10	20.04	163.9	46801	40.00	ug	95
35)	2-Fluorobiphenyl	18.26	171.8	88133	30.95	ug	97
~~39)~~	~~Acenaphthylene~~	~~19.62~~	~~152.0~~	~~3207~~	~~.862~~	~~ug~~	~~91~~
42)	Acenaphthene	20.12	152.9	66971	29.17	ug	98
44)	4-Nitrophenol	20.57	108.8	20706	55.69	ug	64
46)	2,4-Dinitrotoluene	20.66	164.8	41550	37.63	ug	81
51)	2,4,6-Tribromophenol	22.16	329.6	26093	39.77	ug	92
52)	*Phenanthrene-d10	23.94	187.9	88663	40.00	ug	98
57)	Pentachlorophenol	23.63	265.6	37192	53.37	ug	97
61)	Di-n-butylphthalate	25.57	148.8	2488	.441	ug	61
63)	*Chrysene-d12	31.27	240.0	78931	40.00	ug	98
64)	Pyrene	27.78	201.9	110812	22.27	ug	99
65)	Terphenyl-d14	28.19	244.0	95454	28.02	ug	99
~~66)~~	~~Butylbenzylphthalate~~	~~29.49~~	~~149.0~~	~~894~~	~~.313~~	~~ug~~	~~78~~
70)	bis(2-Ethylhexyl)phthalate	31.36	149.0	6737	1.94	ug	95
71)	*Perylene-d12	38.14	264.0	81116	40.00	ug	97

* Compound is ISTD

CMC 2/24/93



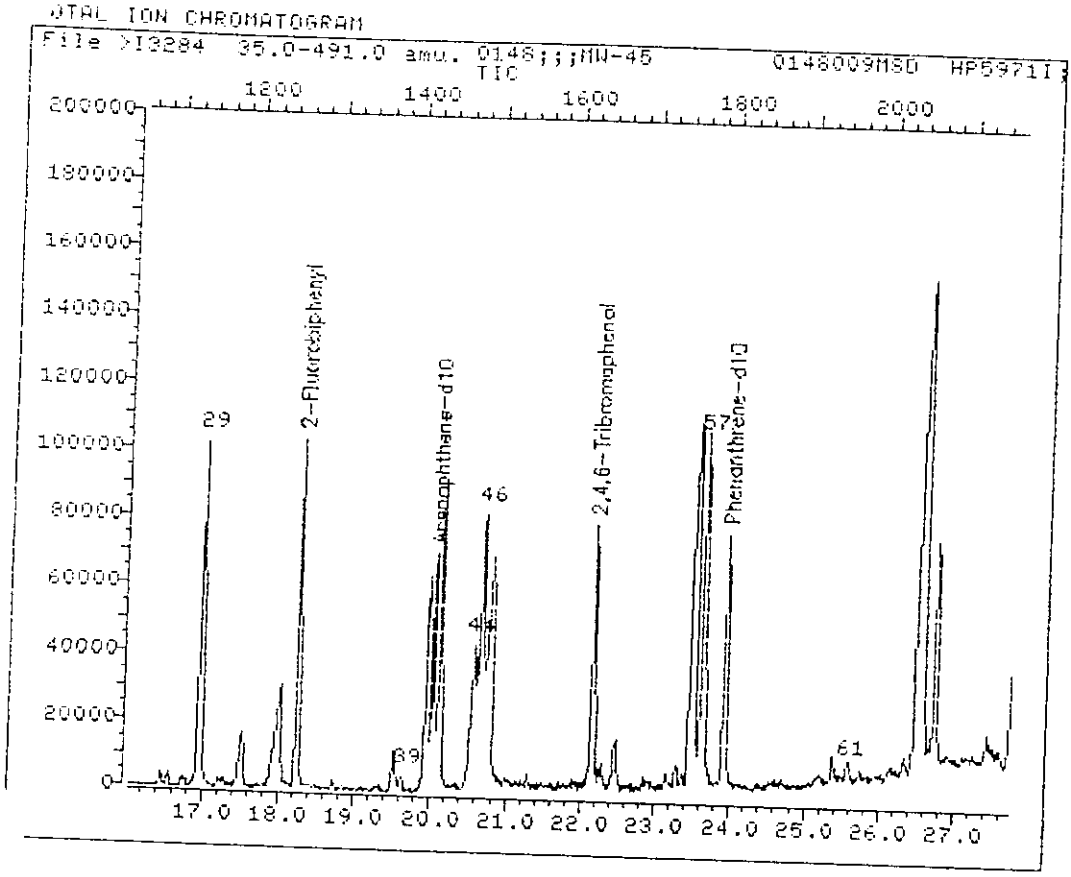
Data File: >I3284::A4
Name: 0148;;;MW-45
Misc: 0148009MSD HP5971I;0210931;021193;LLW;1;;;I0

Quant Output File: ^I3284::A6
Instrument ID: **MSD

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:11
Injected at: 930216 15:08



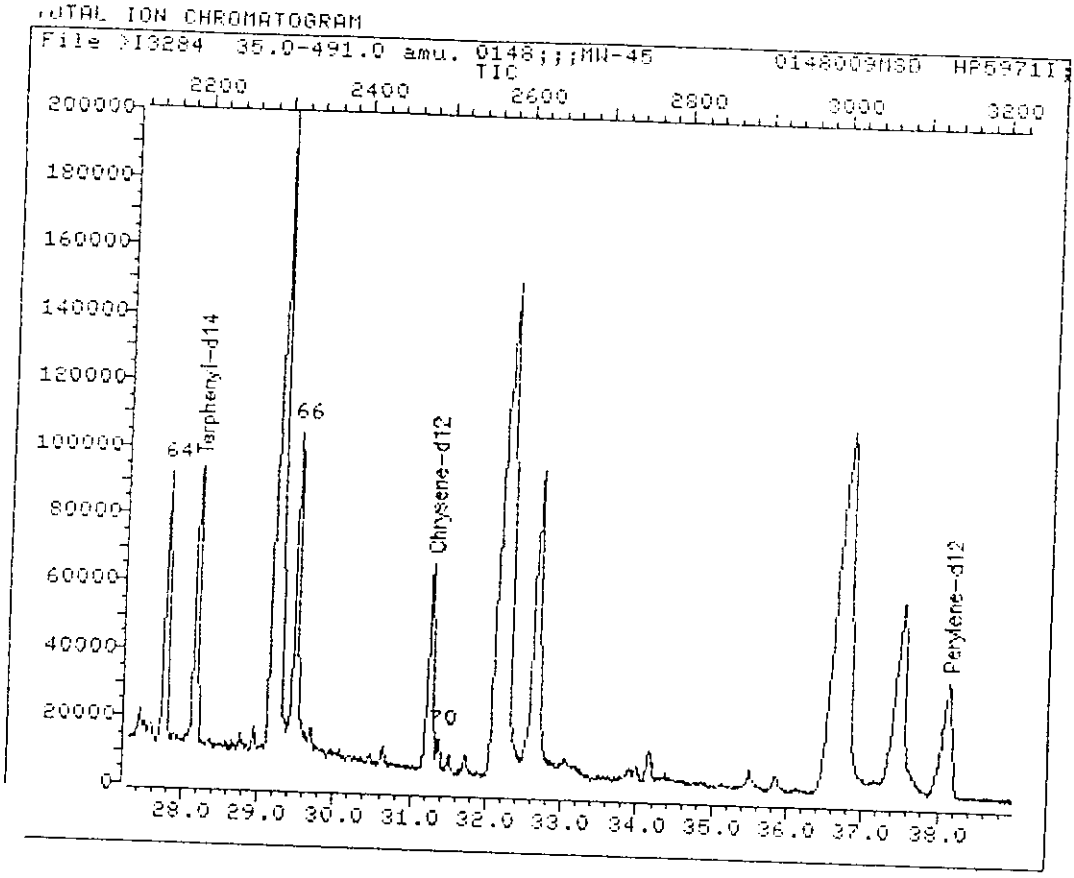
Data File: >I3284::A4
Name: 0148;;;MW-45
Misc: 0148009MSD HP5971I;0210931;021193;LLW;1;;;I0

Quant Output File: ^I3284::A6
Instrument ID: **MSD

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:11
Injected at: 930216 15:08



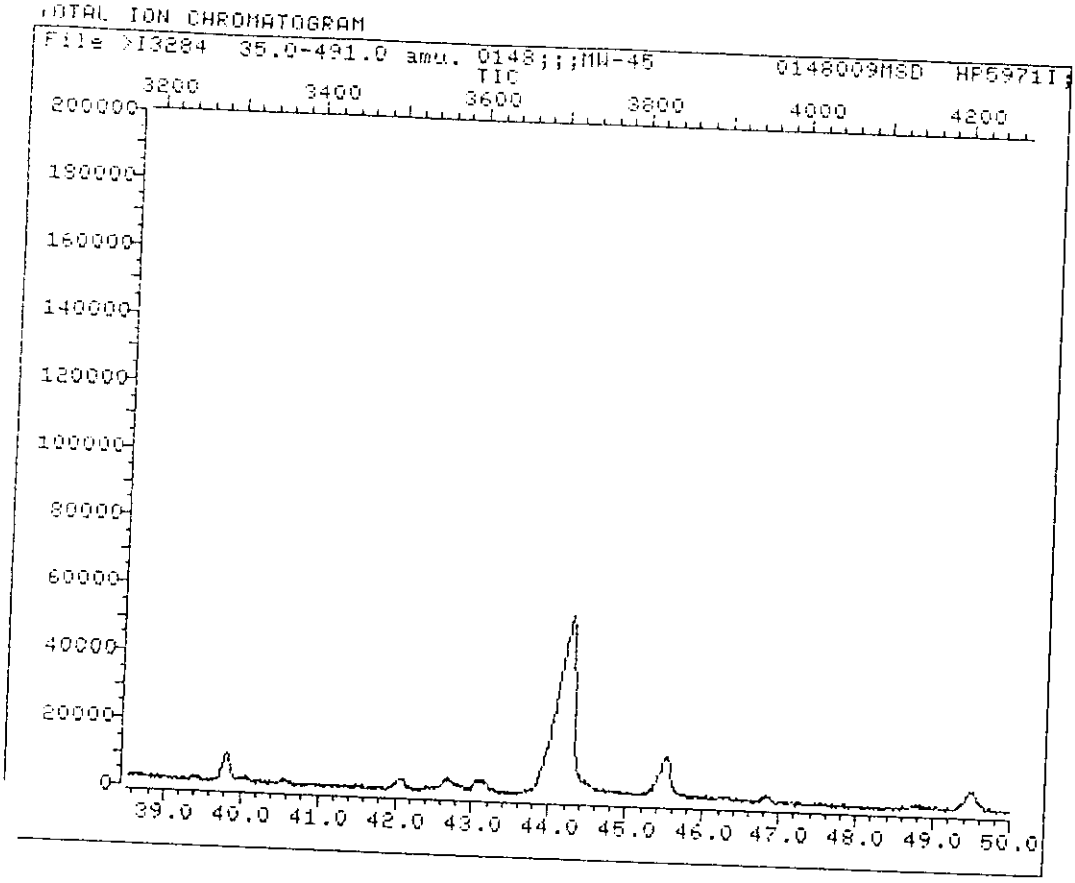
Data File: >I3284::A4
Name: 0148;;;MW-45
Misc: 0148009MSD HP5971I;0210931;021193;LLW;1;;;I0

Quant Output File: ^I3284::A6
Instrument ID: **MSD

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:11
Injected at: 930216 15:08



Data File: >I3284::A4
Name: 0148;;;MW-45
Misc: 0148009MSD HP5971I;0210931;021193;LLW;1;;;I0

Quant Output File: ^I3284::A6
Instrument ID: **MSD

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:11
Injected at: 930216 15:08

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0780

EPA SAMPLE NO.

QCCHKSTD

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009STD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3285.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	49	
111-44-4	bis(2-Chloroethyl)ether	54	
95-57-8	2-Chlorophenol	50	
541-73-1	1,3-Dichlorobenzene	42	
106-46-7	1,4-Dichlorobenzene	41	
95-50-1	1,2-Dichlorobenzene	34	
95-48-7	2-Methylphenol	45	
108-60-1	2,2'-oxybis(1-Chloropropane)	36	
106-44-5	4-Methylphenol	42	
621-64-7	N-Nitroso-di-n-propylamine	45	
67-72-1	Hexachloroethane	41	
98-95-3	Nitrobenzene	55	
78-59-1	Isophorone	58	
88-75-5	2-Nitrophenol	61	
105-67-9	2,4-Dimethylphenol	47	
111-91-1	bis(2-Chloroethoxy)methane	47	
120-83-2	2,4-Dichlorophenol	49	
120-82-1	1,2,4-Trichlorobenzene	48	
91-20-3	Naphthalene	44	
106-47-8	4-Chloroaniline	260	
87-68-3	Hexachlorobutadiene	49	
59-50-7	4-Chloro-3-methylphenol	60	
91-57-6	2-Methylnaphthalene	39	
77-47-4	Hexachlorocyclopentadiene	5	J
88-06-2	2,4,6-Trichlorophenol	68	
95-95-4	2,4,5-Trichlorophenol	64	
91-58-7	2-Chloronaphthalene	57	
88-74-4	2-Nitroaniline	81 ~~25~~	U
131-11-3	Dimethylphthalate	71	
208-96-8	Acenaphthylene	55	
606-20-2	2,6-Dinitrotoluene	72	
99-09-2	3-Nitroaniline	600	
83-32-9	Acenaphthene	60	

ave 2/25/93

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0781
EPA SAMPLE NO.

QCCHKSTD

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009STD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3285.D

Level: (low/med) LOW Date Received: 02/02/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	200	
100-02-7	4-Nitrophenol	110	
132-64-9	Dibenzofuran	55	
121-14-2	2,4-Dinitrotoluene	89	
84-66-2	Diethylphthalate	67	
7005-72-3	4-Chlorophenyl-phenylether	66	
86-73-7	Fluorene	67	
100-01-6	4-Nitroaniline	100	
534-52-1	4,6-Dinitro-2-methylphenol	81	
86-30-6	N-Nitrosodiphenylamine (1)	55	
101-55-3	4-Bromophenyl-phenylether	54	
118-74-1	Hexachlorobenzene	56	
87-86-5	Pentachlorophenol	69	
85-01-8	Phenanthrene	54	
120-12-7	Anthracene	50	
86-74-8	Carbazole	160	
84-74-2	Di-n-butylphthalate	51	B
206-44-0	Fluoranthene	55	
129-00-0	Pyrene	60	
85-68-7	Butylbenzylphthalate	58	
91-94-1	3,3'-Dichlorobenzidine	100	
56-55-3	Benzo(a)anthracene	61	
218-01-9	Chrysene	58	
117-81-7	bis(2-Ethylhexyl)phthalate	58	B
117-84-0	Di-n-octylphthalate	51	
205-99-2	Benzo(b)fluoranthene	78	
207-08-9	Benzo(k)fluoranthene	40	
50-32-8	Benzo(a)pyrene	63	
193-39-5	Indeno(1,2,3-cd)pyrene	36	
53-70-3	Dibenz(a,h)anthracene	66	
191-24-2	Benzo(g,h,i)perylene	44	

QUANT REPORT

Operator ID: USER1
Output File: ^I3285::A6
Data File: >I3285::A4
Name: 0148;;;QC CHECK STD
Misc: 0148009STD HP5971I;0210931;021193;LLW;1;;;I0

Quant Rev: 7 Quant Time: 930223 14:23
Injected at: 930216 16:10
Dilution Factor: .50000
Instrument ID: **MSD

ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *1,4-Dichlorobenzene-d4	12.13	151.8	21504	40.00	ug	97
2) 2-Chlorophenol-d4	11.71	132.0	57962	42.52	ug	81
3) 2-Fluorophenol	9.21	111.8	61251	45.24	ug	73
4) Phenol-d5	11.50	98.8	75957	40.23	ug	60
5) Phenol	11.56	93.9	88772	48.85	ug	61
6) bis(2-Chloroethyl)ether	11.62	92.7	94071	53.65	ug	62
7) 2-Chlorophenol	11.76	127.8	70568	49.79	ug	86
8) 1,3-Dichlorobenzene	12.04	145.8	62997	42.28	ug	94
9) 1,4-Dichlorobenzene	12.18	145.7	60564	41.27	ug	86
10) 1,2-Dichlorobenzene-d4	12.60	152.0	18776	20.52	ug	99
11) 1,2-Dichlorobenzene	12.65	145.7	49243	34.58	ug	94
12) 2-Methylphenol	12.97	107.8	60646	49.16	ug	93
13) 2,2'-oxybis(1-Chloropropane)	12.92	44.8	27655^	35.93	ug	31
14) 4-Methylphenol	13.34	107.8	59757	41.91	ug	99
15) N-Nitroso-di-n-propylamine	13.37	69.9	39771	44.78	ug	72
16) Hexachloroethane	13.40	116.7	29933	41.50	ug	95
17) *Naphthalene-d8	15.40	135.9	80375	40.00	ug	97
18) Nitrobenzene-d5	13.62	81.8	44333	29.03	ug	69
19) Nitrobenzene	13.67	76.8	74696	55.29	ug	82
20) Isophorone	14.30	81.8	185938	57.51	ug	91
21) 2-Nitrophenol	14.48	138.9	55177	61.07	ug	87
22) 2,4-Dimethylphenol	14.65	106.8	70900	47.07	ug	87
23) bis(2-Chloroethoxy)methane	14.86	92.8	103915	47.05	ug	78
24) 2,4-Dichlorophenol	15.14	161.7	63165	48.88	ug	96
25) 1,2,4-Trichlorobenzene	15.30	179.7	69210	47.60	ug	99
26) Naphthalene	15.46	127.9	167698	43.75	ug	79
27) 4-Chloroaniline	15.66	126.8	60199	257.85	ug	84
28) Hexachlorobutadiene	15.92	224.6	38487	49.49	ug	95
29) 4-Chloro-3-methylphenol	16.99	106.9	87621	59.63	ug	86
30) 2-Methylnaphthalene	17.26	141.9	108146	38.67	ug	86
31) *Acenaphthene-d10	20.05	163.9	39022	40.00	ug	97
32) Hexachlorocyclopentadiene	17.83	236.6	3099	4.86	ug	97
33) 2,4,6-Trichlorophenol	18.11	195.8	59473	68.57	ug	98
34) 2,4,5-Trichlorophenol	18.23	195.8	60859	64.40	ug	99
35) 2-Fluorobiphenyl	18.29	171.8	78377	32.36	ug	96
36) 2-Chloronaphthalene	18.55	161.8	124819	56.85	ug	88
37) 2-Nitroaniline	18.95	64.9	52692M	80.81	ug	
38) Dimethylphthalate	19.50	162.8	193904	71.00	ug	96
39) Acenaphthylene	19.66	152.0	134592			
40) 2,6-Dinitrotol						

QUANT REPORT

Operator ID: USER1
Output File: ^I3285::A6
Data File: >I3285::A4
Name: 0148;;;QC CHECK STD
Misc: 0148009STD HP5971I;0210931;021193;LLW;1;;;10

Quant Rev: 7 Quant Time: 930223 14:23
Injected at: 930216 16:10
Dilution Factor: .50000
Instrument ID: **MSD

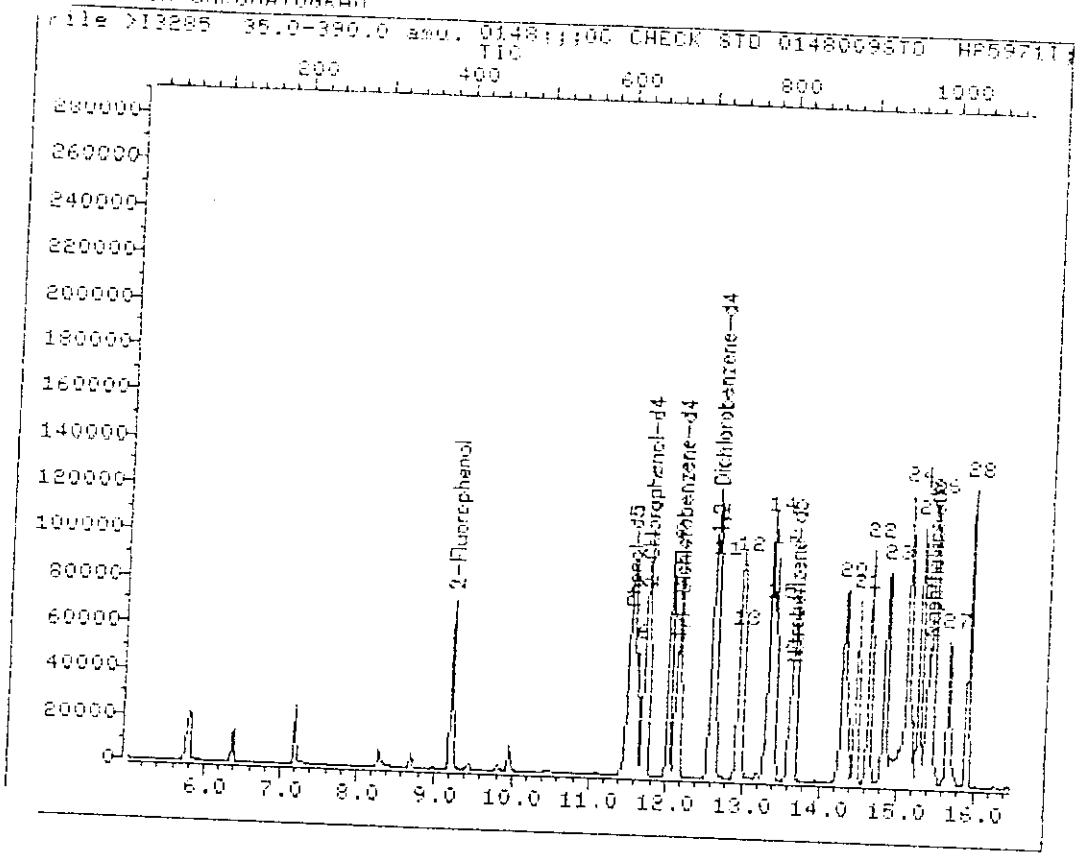
ID File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	3-Nitroaniline	20.08	137.8	51057	958.27	ug	63
42)	Acenaphthene	20.17	152.9	118039	60.45	ug	96
43)	2,4-Dinitrophenol	20.33	183.8	39106	201.54	ug	84
44)	4-Nitrophenol	20.60	108.8	33878	107.13	ug	43
45)	Dibenzofuran	20.58	167.8	162261	55.23	ug	97
46)	2,4-Dinitrotoluene	20.72	164.8	83327	88.75	ug	75
47)	Diethylphthalate	21.38	148.8	192333	67.46	ug	94
48)	4-Chlorophenyl-phenylether	21.49	203.9	68019	66.42	ug	88
49)	Fluorene	21.50	165.9	131855	66.75	ug	96
50)	4-Nitroaniline	21.79	137.9	64231	99.66	ug	68
51)	2,4,6-Tribromophenol	22.20	329.6	32567	58.36	ug	98
52)	*Phenanthrene-d10	23.97	187.9	91743	40.00	ug	98
53)	4,6-Dinitro-2-methylphenol	21.84	197.9	42405	81.09	ug	99
54)	N-Nitrosodiphenylamine (1)	21.87	168.9	89034	54.96	ug	97
55)	4-Bromophenyl-phenylether	22.72	247.9	48257	53.97	ug	96
56)	Hexachlorobenzene	23.17	283.6	69068	56.19	ug	98
57)	Pentachlorophenol	23.66	265.6	50621	68.82	ug	97
58)	Phenanthrene	24.06	177.9	222584	54.26	ug	97
59)	Carbazole	24.60	166.8	217456	155.48	ug	97
60)	Anthracene	24.17	177.9	209235	49.92	ug	97
61)	Di-n-butylphthalate	25.61	148.8	302234	50.75	ug	96
62)	Fluoranthene	27.21	201.9	258002	55.31	ug	99
63)	*Chrysene-d12	31.33	240.0	67982	40.00	ug	99
64)	Pyrene	27.81	201.9	261978	59.93	ug	97
65)	Terphenyl-d14	28.18	244.0	96582	32.27	ug	96
66)	Butylbenzylphthalate	29.57	148.8	146932	58.59	ug	88
67)	3,3'-Dichlorobenzidine	31.22	251.9	70690	100.27	ug	83
68)	Benzo(a)anthracene	31.26	228.0	227895	60.82	ug	98
69)	Chrysene	31.46	228.0	187293	58.24	ug	99
70)	bis(2-Ethylhexyl)phthalate	31.42	148.8	175559	57.63	ug	90
71)	*Perylene-d12	38.21	264.0	82308	40.00	ug	96
72)	Di-n-octylphthalate	33.97	148.9	388064	51.36	ug	94
73)	Benzo(b)fluoranthene	36.11	252.0	376797M	78.11	ug	97
74)	Benzo(k)fluoranthene	36.23	252.0	163272M	40.32	ug	98
75)	Benzo(a)pyrene	37.93	252.0	272649	62.96	ug	98
76)	Indeno(1,2,3-cd)pyrene	42.05	276.0	162967	36.54	ug	98
77)	Dibenz(a,h)anthracene	42.28	278.0	265083	65.78	ug	99
78)	Benzo(g,h,i)perylene	49.52	276.0	190406	44.31	ug	87

* Compound is ISTD

TAL ION CHROMATOGRAM



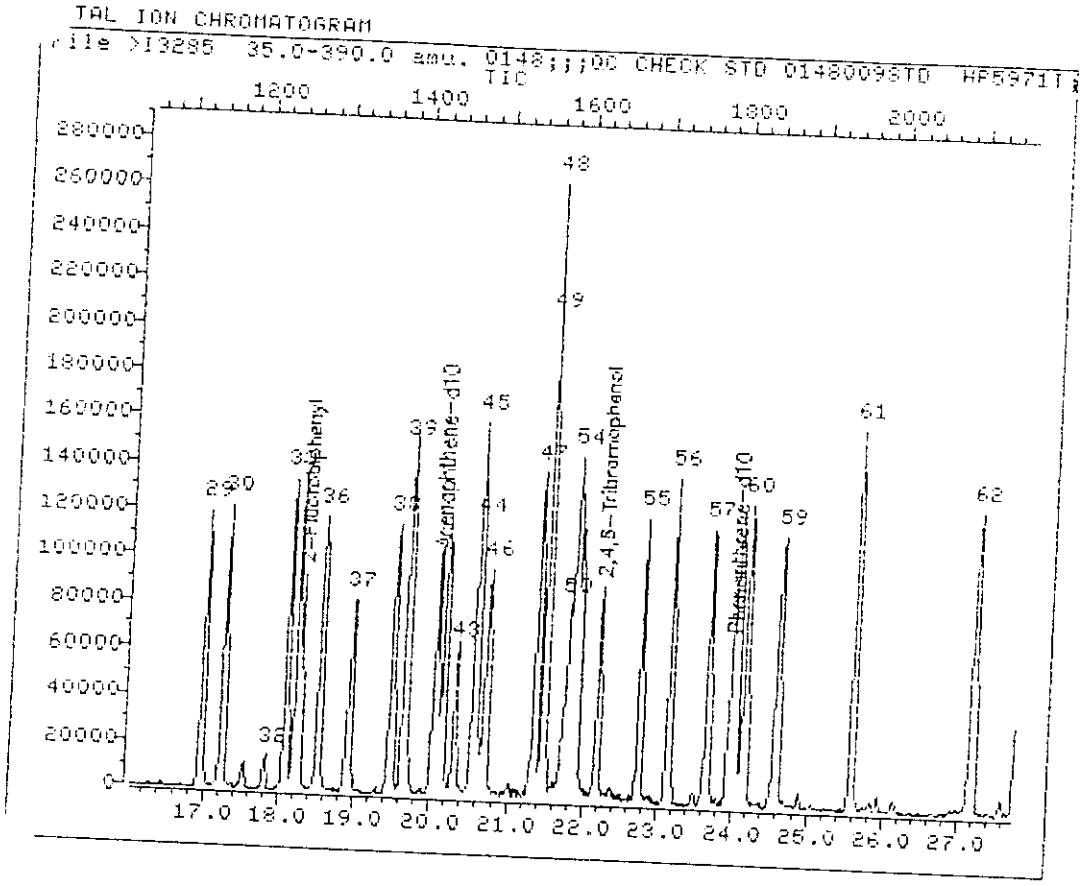
Data File: >I3285::A4
Name: 0148;;;QC CHECK STD
Misc: 0148009STD HP5971I;0210931;021193;LLW;1;;;I0

Quant Output File: ^I3285::A6
Instrument ID: **MSD

Id File: I_IFI::A5
Title: IFB-OLM01.8 BNA COMPOUNDS
Last Calibration: 910116 11:52

Last Qcal Time: 930216 08:48

Operator ID: USER1
Quant Time : 930223 14:23
Injected at: 930216 16:10



Data File: >I3285::A4
Name: 0148;;;QC CHECK STD
Misc: 0148009STD HP5971I;0210931;021193;LLW;1;;;I0

Quant Output File: ^I3285::A6
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Operator ID: USER1
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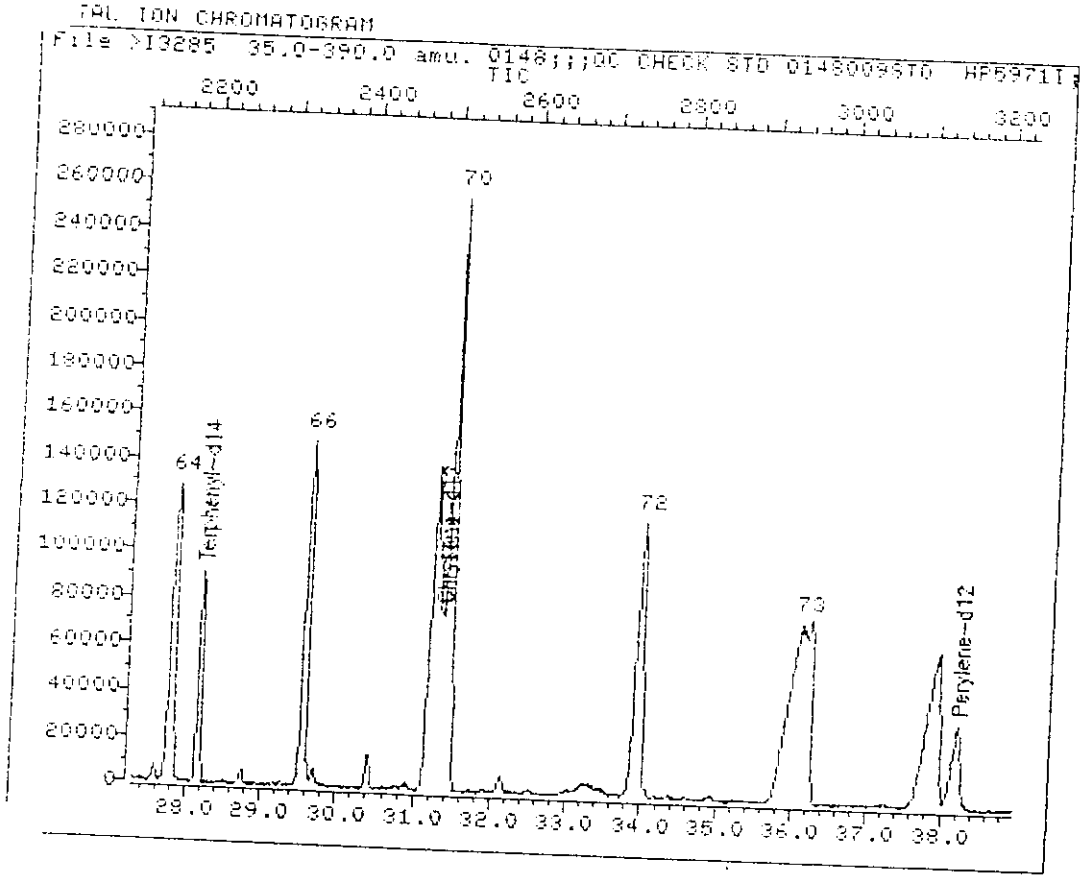

Data File: >I3285::A4
Name: 0148;;;QC CHECK STD
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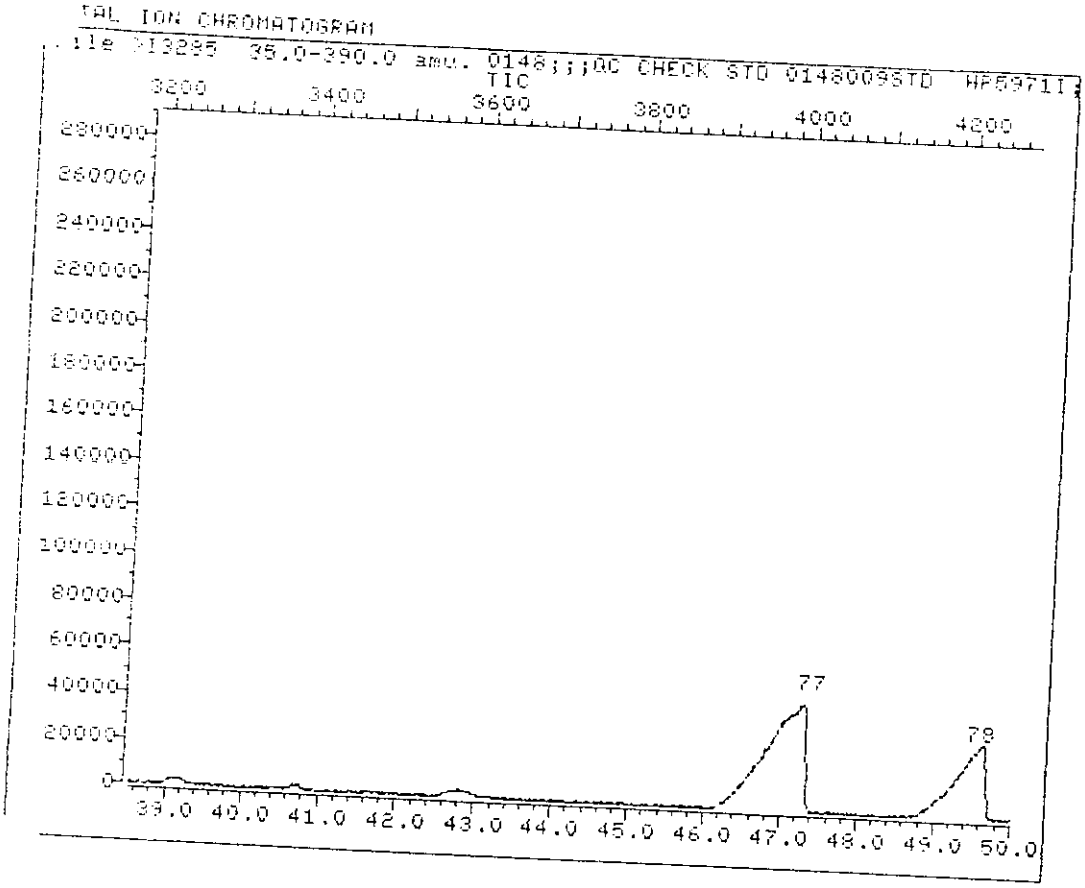

Data File: >I3285::A4
Name: 0148;;;QC CHECK STD
Misc: 0148009STD HP5971I;0210931;021193;LLW;1;;;I0

Quant Output File: ^I3285::A6
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Last Calibration: 910116 11:52

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Injected at: 930216 16:10

200 MON[illegible] TEA TURNPIKE
MONROE, CT 0[illegible] (203) 452-8200

ti 4:05pm

ORGANIC EXTRA[illegible]N LOG
AQUEOUS/SOLI[illegible] [illegible]TRIX

Analysis: NIGBNA390
Corresponding MS/MSD: 0148009 ms/msd

MeCl2 Lot: BE223
Hexane Lot: —
PB Pamela Backlund

Alumina Lot: —
Florisil Lot: —

Reagent H2O Lot: RW. 021193
Acetone Lot: —
Na2SO4 Lot: —
H2SO4 Lot: —
NaOH Lot: —

Extraction Date: 02/11/93
Finish Date: 02/12/93
0.5ml Surrogate Code: Cx:112092:P49C
0.5ml Spike Code: Ex:0[illegible]92:P36C
Reviewed By: [signature]

Client	Lab ID	Sign out COC	CL2 res	Init pH H2O	Init Wt/Vol	Sample Color & Texture	Surr Init	Spike Init	Ext Method	Ext By	C/U	Int Conc	Vf	Color of Ext	Conc/Scored By	pH	% Solids Data: Tare	Wet wt	Dry wt	% Solids	Location: Fzr	Tray	Slot	Surr Scrn	Comments
BLANK	0211B06	LA	NO	NEUT	1000	Clear	PB	N/A	Cont	PB	NO	NA	1.0ml	Clear	PB										
	0211B07																				31	IV	8A		
	0148-009MSB													—	—						—	—	—		86
	0148-009MSD							PB						Clear											87
	0148-009STD																				31	IV	8A		
Roux	0148-009	PB			975	Cloudy								yellow											
	-009MS							N/A						Clear											1.0ml Monthly Ems Sdn. Cx: 081392:P43A
	009MSD							PB						yellow											
	010				1000			N/A																	
	011				975																		8B		
	012													Clear											
	013				1000	Brown																			
	014																								
	015													yellow											
	016				975	Clear								Cl											
	017					Cloudy								yellow									8C		
	019				1000									Cl											
	020				975									yellow											
	021													Clear											
	022				1000	Clear																			
	023				975																		8D		