

IV. STANDARDS PACKET

E.P.A. CASE NO. 2333

- *A. VOA Case Summary Reference Guide
 - Chromatogram(s)/Quantitation Report
 - Instrument Run Logs
 - SPCC/CCC
- *B. Semi-Volatile Summary Reference Guide
 - Chromatogram(s)/Quantitation Report
 - Instrument Run Logs
 - SPCC/CCC
- *C. Pesticide Case Summary Reference Guide
 - Chromatogram(s)/Quantitation Report
 - Instrument Run Logs
- *D. TCDD Summary Reference Guide
 - Chromatogram(s)/Quantitation Report
 - EICP
 - Instrument Run Logs
- *E. GC/MS Environment Data (VOA)
 - Internal Standard Response Verification Control Chart
 - Internal Standard Response Verification Report
 - Initial Calibration Data
 - Calibration Check Data
- *F. GC/MS Environment Data (Semi-volatiles)
 - Internal Standard Response Verification Control Chart
 - Internal Standard Response Verification Report
 - Initial Calibration Data
 - Calibration Check Data
- G. Detection Limit Study

*Sequence repeated for all standards required

For each fraction analyzed, the Laboratory includes chromatograms and automatic quantitation reports of associated standards. To assist in interpretation, a cross-index is included at the start of each of the standards' sections (Summary Reference Guide) which lists the tune, blank, shift standard name, and samples run under this standard. The instrument run log or sequence run log is also copied and provided for use in determining the order in which samples were run, times, etc. For volatile and semi-volatile fractions, the instrument operators use a form for reporting SPCC and CCC criteria-compounds' response factors. This information is also provided, in the contract-required format, in Section IV. E (Volatiles) and Section IV. F (Semi-volatiles).

013795

005151

A

013796

29

005122

EPA CASE#

2333

HEAD COMPOUND CASE SUMMARY REFERENCE GUIDE

date 2-29-87

Fraction	associated tube	associated shift std.	CC #	EPA SMO#	Analyst Date/Name	Vol. Inst. blank	Extract. Date	Assoc. Bill#	Amount
✓	BE840203018	GS840203018	R558	R3517	✓				0.13
	BE840203012	GS840203012	19559	R3518	✓				
	"	"	19560	R3519	✓				
	BE840203018	GS840203018	19563	R3520	✓				0.05128
	BE840203018	GS840203018	19561	R3520	✓				
	BE840203013	GS840203013	19563	R3520	✓				
	BE840203018	GS840203018	19561	R3520	✓				
	BE840210018	GS840210018	19562	R3521	✓				

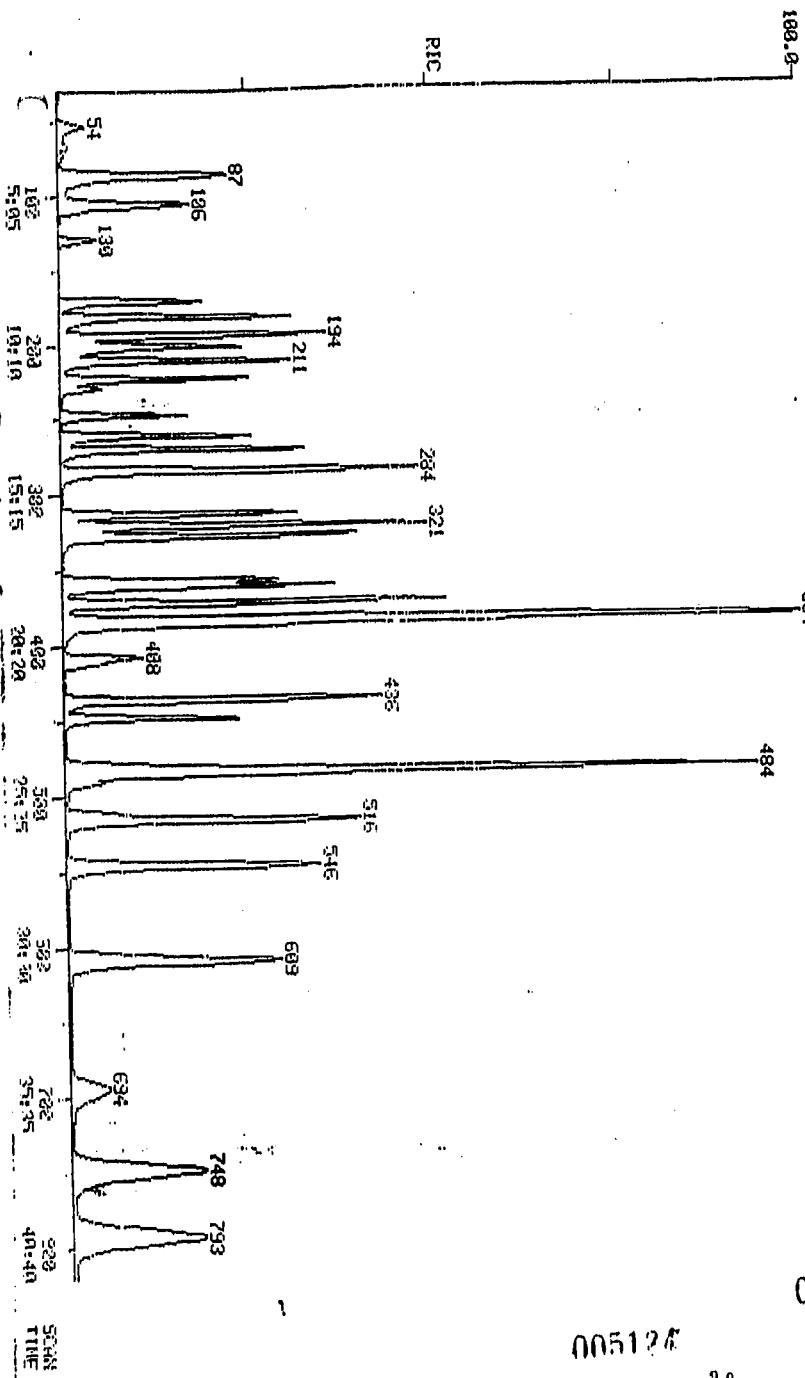
RIC
 02/03/84 3:26:00
 SAMPLE: 10 ML H2O + 5 UL (10936+10941) + HIGH LEVEL U238 STD 1818

NEAD CONFIDEN

DATE: 05840203C18

SCANS 30 TO 820

005126
 205230



PROCEDURE: RK
 DATA FILE: GS940203C18
 REFERENCE: V238

DIAGNOSTIC REPORT

2/03/84 4:12:02

METHOD: V238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
 REPORT: V238S1

----- STANDARDS ----- >< --- PLUS UNKNOWN --- >< - LIST NAMES - >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 3 3 1 80 44 37 1 60 V238S1/V238U1

44 COMPOUNDS PROCESSED, 39 FOUND

NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	P5	1	230	230	230		1	965		130	230		
2	P6	1	412	412	411	-1	1	784		79	412	1	
3	F7	1	491	491	491		1	989		55	491		
4	P5	2	56	56	54	-2	1	973		50	54		
5	P5	3	87	87	87		1	956		94	87		
6	P5	4	105	105	106	1	1	984		62	106		
7	P5	5	130	130	130		1	989		64	130		
8	P5	6	172	172	171	-1	1	978		84	171		
9	P5	7	182	182	182		1	955		58	182		
10	P5	8	-182	182						56	182		
11	P5	9	195	195	194	-1	1	974		53	194		
12	P5	10	212	212	211	-1	1	981		101	211		
13	P5	11	202	202	202		1	992		76	202		
14	P5	12	224	224	223	-1	1	975		96	223		
15	P5	13	248	248	248		1	997		65	248		
16	P5	14	262	262	261	-1	1	982		96	261		
17	P5	15	271	271	270	-1	1	982		83	270		
18	P5	16	286	286	285	-1	1	970		62	285		
19	P5	17	284	284	284		1	979		72	284		
20	P5	18	313	313	313		1	980		97	313		
21	P5	19	321	321	321		1	992		117	320	-1	
22	P6	2	322	322	321	-1	1	968		43	321		
23	F6	3	328	328	327	-1	1	985		127	327		
24	P6	4	357	357	357		1	987		65	357		
25	F6	5	361	361	361		1	980		75	361		
26	F6	6	372	372	372		1	978		130	372		
27	F6	7	384	384	384		1	991		78	384		
28	F6	8	386	386	385	-1	1	993		97	385		
29	P6	9	-387	387						75	386		
30	P6	10	-384	384						127	383		
31	P6	11	408	408	408		1	980		63	408		
32	F6	12	437	437	436	-1	1	965		173	436		
33	F6	13	449	449	449		1	995		58	448	-1	
34	P7	2	479	479	479		1	982		58	479		
35	F7	3	-484	484						83	483		
36	F7	4	485	485	485		1	962		164	485		
37	PT	5	517	517	516	-1	1	979		92	516		
38	P7	6	546	546	546		1	968		112	546		
39	P7	7	609	609	609		1	980		106	609		
40	P7	8	749	749	748	-1	1	983		104	748		
41	F7	9	793	793	792	-1	1	987		106	793	1	
42	P8	2	-284	284						65	284		
43	P8	3	512	512	512		1	976		100	512		
44	P8	4	693	693	693		1	992		176	692		

013799

005125

QUANTITATION REPORT FILE: GSB40203C18

DATA: GSB40203C18.TI

03/84 3:26:00

SAMPLE: 10 ML H2O + 5 UL (10936+10941) + HIGH LEVEL V238 STD 1818

SUBMITTED BY: 18 ANALYST: 714

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

- NO NAME
- 1 * BROMOCHLOROMETHANE (IS)
- 2 221 CHLOROMETHANE
- 3 220 BROMOMETHANE
- 4 231 VINYL CHLORIDE
- 5 209 CHLOROETHANE
- 6 222 METHYLENE CHLORIDE
- 7 252 ACETONE (2-PROPANONE)
- 8 201 ACRYLEIN
- 9 202 ACRYLONITRILE
- 10 230 TRICHLOROFUOROMETHANE
- 11 254 CARBON DISULFIDE
- 12 216 1, 1-DICHLOROETHYLENE
- 13 214 1, 1-DICHLOROETHANE
- 14 226 TRANS-1, 2-DICHLOROETHYLENE
- 15 211 CHLOROFORM
- 16 215 1, 2-DICHLOROETHANE
- 17 253 2-BUTANONE
- 18 227 1, 1, 1-TRICHLOROETHANE
- 19 206 CARBON TETRACHLORIDE
- 20 * 2-BROMO-1-CHLOROPROPANE
- 21 257 VINYL ACETATE
- 22 212 BROMODICHLOROMETHANE
- 23 217 1, 2-DICHLOROPROPANE
- 24 250 TRANS-1, 3-DICHLOROPROPENE
- 25 229 TRICHLOROETHYLENE
- 26 203 BENZENE
- 27 228 1, 1, 2-TRICHLOROETHANE
- 28 218 CIS-1, 3-DICHLOROPROPENE
- 29 208 DIBROMOCHLOROMETHANE
- 30 210 2-CHLOROETHYL VINYL ETHER
- 31 205 BROMOFORM
- 32 256 4-METHYL-2-PENTANONE
- 33 * DICHLOROBUTANE
- 34 255 2-HEXANONE
- 35 223 1, 1, 2, 2-TETRACHLOROETHANE
- 36 224 TETRACHLOROETHENE
- 37 225 TOLUENE
- 38 207 CHLOROBENZENE
- 39 219 ETHYLBENZENE
- 40 251 STYRENE
- 41 209 O-XYLENE
- 42 # D4-1, 2-DICHLOROETHANE
- 43 # D8-TOLUENE
- 44 # BROMOFLUOROBENZENE

*high
1827*

NO M/E SCAN TIME REF RRT METH AREA(HGHT) AMOUNT

%TOT
013800

005126

004-23/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	230	11:41	1	1.000	A BV	90642	10.000 UG/KG	0.27
2	50	54	2:45	1	0.235	A BB	234808	43.537 UG/KG	1.18
3	94	87	4:25	1	0.378	A BV	921169	46.216 UG/KG	1.25
4	62	106	5:23	1	0.461	A BV	928719	47.454 UG/KG	1.29
5	64	130	6:36	1	0.565	A BB	170406	45.793 UG/KG	1.24
6	84	171	8:42	1	0.743	A BV	369138	43.849 UG/KG	1.19
7	58	182	9:15	1	0.791	A VV	235095	340.592 UG/KG	9.23
8	56	182	9:15	1	0.791	A BV	404274	497.100 UG/KG	13.47
9	53	194	9:52	1	0.843	A BV	938009	538.453 UG/KG	14.59
10	101	211	10:44	1	0.917	A BV	867181	56.392 UG/KG	1.53
11	76	202	10:16	1	0.878	A BB	1533210	53.954 UG/KG	1.46
12	96	223	11:20	1	0.970	A BV	385179	58.936 UG/KG	1.60
13	65	248	12:36	1	1.070	A BB	169100	58.394 UG/KG	1.56
14	96	261	13:16	1	1.135	A BB	423959	58.035 UG/KG	1.57
15	83	270	13:43	1	1.174	A BV	826266	57.250 UG/KG	1.55
16	62	285	14:29	1	1.239	A BV	541903	56.802 UG/KG	1.54
17	72	284	14:26	1	1.235	A BV	389148	352.646 UG/KG	9.55
18	97	313	15:55	1	1.361	A BV	674725	60.752 UG/KG	1.65
19	117	320	16:16	1	1.391	A VV	804841	64.144 UG/KG	1.74
20	79	342	20:57	20	1.000	A BB	90642-47654	10.000 UG/KG	0.27
21	43	321	16:19	1	1.396	A BB	557243	55.415 UG/KG	1.50
22	127	327	16:37	1	1.422	A BB	103768	59.346 UG/KG	1.61
23	65	357	18:09	1	1.552	A BB	114825	58.094 UG/KG	1.57
24	75	361	18:21	1	1.570	A BB	763680	61.714 UG/KG	1.67
25	130	372	18:55	1	1.617	A BV	688520	58.617 UG/KG	1.59
26	76	384	19:31	1	1.670	A BV	1218550	63.558 UG/KG	1.72
27	97	385	19:34	1	1.674	A VV	537368	58.527 UG/KG	1.59
28	75	386	19:37	1	1.678	A BB	407248	61.170 UG/KG	1.66
29	127	388	19:28	1	1.665	A BV	845534	61.904 UG/KG	1.68
30	63	408	20:44	1	1.774	A BB	171248	19.776 UG/KG	0.54
31	173	436	22:10	1	1.896	A BV	928027	59.464 UG/KG	1.61
32	58	448	22:46	1	1.940	A BV	228232	75.819 UG/KG	2.05
33	55	454	24:58	33	1.000	A VB	90642-24151	10.000 UG/KG	0.27
34	58	479	24:21	1	2.083	A BB	183275	67.114 UG/KG	1.82
35	63	483	24:33	1	2.100	A BB	909046	57.276 UG/KG	1.55
36	164	485	24:39	1	2.109	A BV	717448	59.744 UG/KG	1.62
37	92	516	26:14	1	2.243	A BB	844016	58.212 UG/KG	1.58
38	112	546	27:45	1	2.374	A BB	1247670	57.170 UG/KG	1.55
39	106	609	30:57	1	2.640	A BB	607348	57.885 UG/KG	1.57
40	104	748	38:01	1	3.252	A BB	1263550	50.775 UG/KG	1.38
41	106	793	40:19	1	3.448	A BB	792488	50.710 UG/KG	1.37
42	65	284	14:26	1	1.235	A BB	101545	10.982 UG/KG	0.30
43	100	512	26:02	1	2.226	A BV	142219	9.136 UG/KG	0.25
44	176	692	35:11	1	3.009	A*BB	178472	9.027 UG/KG	0.24

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:55	1.18	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:51	0.96	0.243	0.96	43.54	60.00	0.432	0.595	0.73
3	4:25	1.00	0.378	1.00	46.22	60.00	1.694	2.199	0.77
4	5:20	1.01	0.457	1.01	47.45	60.00	1.708	2.159	0.79
5	6:36	1.00	0.565	1.00	45.79	60.00	0.313	0.411	0.76
6	8:42	1.27	0.743	1.00	43.85	60.00	0.679	0.929	0.73
7	9:15	1.00	0.791	1.00	340.59	449.98	0.058	0.076	0.76
8	9:15	0.99	0.796	0.99	497.10	599.98	0.074	0.090	0.83
9	9:55	0.94	0.848	0.99	538.45	599.98	0.176	0.196	0.86
10	10:47	1.00	0.922	1.00	56.39	60.00	1.595	1.697	0.94

3801

NO	REV(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:16	1.00	0.978	1.00	53.95	60.00	2.819	3.135	0.90
12	11:20	1.00	0.970	1.00	58.74	60.00	0.708	0.721	0.98
13	12:36	1.00	1.078	1.00	58.39	60.00	0.311	0.319	0.97
14	13:14	1.00	1.139	1.00	58.03	60.00	0.780	0.806	0.97
15	13:47	1.00	1.178	1.00	57.25	60.00	1.519	1.592	0.95
16	14:32	1.00	1.243	1.00	56.80	60.00	0.996	1.053	0.95
17	14:26	1.00	1.235	1.00	352.65	449.98	0.095	0.122	0.78
18	15:55	1.00	1.361	1.00	60.75	60.00	1.241	1.225	1.01
19	16:19	1.00	1.396	1.00	64.14	60.00	1.480	1.384	1.07
20	17:13	1.09	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:22	1.00	1.400	1.00	55.41	60.00	1.025	1.109	0.92
22	16:40	1.00	1.426	1.00	59.35	60.00	0.191	0.193	0.99
23	18:04	1.00	1.552	1.00	58.09	60.00	0.211	0.218	0.97
24	18:21	1.00	1.570	1.00	61.71	60.00	1.404	1.365	1.03
25	18:58	1.00	1.617	1.00	58.62	60.00	1.266	1.296	0.98
26	19:31	1.00	1.670	1.00	63.56	60.00	2.241	2.115	1.06
27	19:37	1.00	1.678	1.00	58.53	60.00	0.988	1.013	0.98
28	19:37	1.00	1.678	1.00	61.17	60.00	0.749	0.734	1.02
29	19:28	1.00	1.665	1.00	61.90	60.00	1.555	1.507	1.03
30	20:44	1.00	1.774	1.00	19.78	60.00	0.315	0.955	0.33
31	22:10	1.00	1.896	1.00	59.46	60.00	1.706	1.722	0.99
32	22:49	1.00	1.952	1.00	75.82	90.00	0.280	0.332	0.84
33	23:17	1.07	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:21	1.00	2.083	1.00	67.11	90.00	0.225	0.301	0.75
35	24:33	1.00	2.100	1.00	57.28	60.00	1.672	1.751	0.95
36	24:39	1.00	2.109	1.00	59.74	60.00	1.319	1.325	1.00
37	26:17	1.00	2.248	1.00	58.21	60.00	1.552	1.600	0.97
38	27:45	1.00	2.374	1.00	57.17	60.00	2.294	2.408	0.95
39	30:57	1.00	2.648	1.00	57.88	60.00	1.109	1.150	0.96
40	38:07	1.00	3.261	1.00	50.78	60.00	2.323	2.745	0.85
41	40:19	1.00	3.448	1.00	50.71	60.00	1.457	1.724	0.85
42	12:39	1.14	1.235	1.00	10.98	10.00	1.120	1.020	1.10
43	24:21	1.07	2.226	1.00	9.14	10.00	1.569	1.717	0.91
44	33:33	1.05	3.013	1.00	9.03	10.00	1.969	2.181	0.90

013802

25

005128

QUANTITATION REPORT FILE: GSB40203C18

DATA: GSB40203C18.TI

92-9/84 3:26:00

SAMPLE: 10 ML H2O + 5 UL (10936+10941) + HIGH LEVEL V238 STD 1818

SUBMITTED BY: 18 ANALYST: 714

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

- NO NAME
- 1 * BROMOCHLOROMETHANE (IS)
- 2 221 CHLOROMETHANE
- 3 220 BROMOMETHANE
- 4 231 VINYL CHLORIDE
- 5 209 CHLOROETHANE
- 6 222 METHYLENE CHLORIDE
- 7 252 ACETONE (2-PROPANONE)
- 8 201 ACROLEIN
- 9 202 ACRYLONITRILE
- 10 230 TRICHLOROFLUOROMETHANE
- 11 254 CARBON DISULFIDE
- 12 216 1, 1-DICHLOROETHYLENE
- 13 214 1, 1-DICHLOROETHANE
- 14 226 TRANS-1, 2-DICHLOROETHYLENE
- 15 211 CHLOROFORM
- 16 215 1, 2-DICHLOROETHANE
- 17 253 2-BUTANONE
- 18 227 1, 1, 1-TRICHLOROETHANE
- 19 206 CARBON TETRACHLORIDE
- 20 * 2-BROMO-1-CHLOROPROPANE
- 21 257 VINYL ACETATE
- 22 212 BROMODICHLOROMETHANE
- 23 217 1, 2-DICHLOROPROPANE
- 24 250 TRANS-1, 3-DICHLOROPROPENE
- 25 229 TRICHLOROETHYLENE
- 26 203 BENZENE
- 27 228 1, 1, 2-TRICHLOROETHANE
- 28 218 CIS-1, 3-DICHLOROPROPENE
- 29 208 DIBROMOCHLOROMETHANE
- 30 210 2-CHLOROETHYL VINYL ETHER
- 31 205 BROMOFORM
- 32 256 4-METHYL-2-PENTANONE
- 33 * DICHLOROBUTANE
- 34 255 2-HEXANONE
- 35 223 1, 1, 2, 2-TETRACHLOROETHANE
- 36 224 TETRACHLOROETHENE
- 37 225 TOLUENE
- 38 207 CHLOROBENZENE
- 39 219 ETHYLBENZENE
- 40 251 STYRENE
- 41 239 O-XYLENE
- 42 # D4-1, 2-DICHLOROETHANE
- 43 # D8-TOLUENE
- 44 # BROMOFLUOROBENZENE

M/E SCAN TIME REF RRT METH AREA(HGHT) AMOUNT

XTOT
 013803
 005129

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	230	11:41	1	1.000	A BV	90642.	10.000 UG/KG	0.23
2	50	94	2:45	1	0.235	A BE	234808.	59.998 UG/KG	1.41
3	94	87	4:25	1	0.378	A BV	921169.	59.998 UG/KG	1.41
4	62	106	5:23	1	0.461	A BV	928717.	59.998 UG/KG	1.41
5	64	130	6:36	1	0.565	A BE	170406.	59.998 UG/KG	1.41
6	84	171	8:42	1	0.743	A BV	369138.	59.998 UG/KG	1.41
7	58	182	9:15	1	0.791	A VV	235075.	449.980 UG/KG	10.56
8	56	182	9:15	1	0.791	A BV	404274.	599.980 UG/KG	14.08
9	53	194	9:52	1	0.843	A BV	958007.	599.980 UG/KG	14.08
10	102	211	10:44	1	0.917	A BV	867181.	59.998 UG/KG	1.41
11	76	202	10:16	1	0.878	A BE	1533210.	59.998 UG/KG	1.41
12	96	223	11:20	1	0.970	A BV	385179.	59.998 UG/KG	1.41
13	65	248	12:36	1	1.078	A BE	169100.	59.998 UG/KG	1.41
14	96	261	13:16	1	1.135	A BE	423959.	59.998 UG/KG	1.41
15	83	270	13:43	1	1.174	A BV	826266.	59.998 UG/KG	1.41
16	62	285	14:29	1	1.239	A BV	541903.	59.998 UG/KG	1.41
17	72	284	14:26	1	1.235	A BV	389148.	449.980 UG/KG	10.56
18	97	313	15:35	1	1.361	A BV	674726.	59.998 UG/KG	1.41
19	117	320	16:16	1	1.391	A VV	804841.	59.998 UG/KG	1.41
20	79	412	20:57	20	1.000	A BE	47654.	10.000 UG/KG	0.23
21	43	321	16:19	1	1.396	A BE	557243.	59.998 UG/KG	1.41
22	127	327	16:37	1	1.422	A BE	103768.	59.998 UG/KG	1.41
23	65	357	18:07	1	1.552	A BE	114826.	59.998 UG/KG	1.41
24	75	361	18:21	1	1.570	A BE	763680.	59.998 UG/KG	1.41
25	130	372	18:55	1	1.617	A BV	688520.	59.998 UG/KG	1.41
26	78	384	19:31	1	1.670	A BV	1218550.	59.998 UG/KG	1.41
27	97	385	19:34	1	1.674	A VV	537368.	59.998 UG/KG	1.41
28	75	386	19:37	1	1.678	A BE	407248.	59.998 UG/KG	1.41
29	127	383	19:28	1	1.665	A BV	845534.	59.998 UG/KG	1.41
30	63	408	20:44	1	1.774	A BE	171248.	59.998 UG/KG	1.41
31	173	436	22:10	1	1.896	A BV	928027.	59.998 UG/KG	1.41
32	58	448	22:46	1	1.948	A BV	228232.	89.999 UG/KG	2.11
33	55	491	24:58	33	1.000	A VE	94181.	10.000 UG/KG	0.23
34	58	479	24:21	1	2.083	A BE	183275.	89.999 UG/KG	2.11
35	83	483	24:33	1	2.106	A BE	909046.	59.998 UG/KG	1.41
36	164	485	24:39	1	2.107	A BV	717448.	59.998 UG/KG	1.41
37	92	516	26:14	1	2.243	A BE	844016.	59.998 UG/KG	1.41
38	112	546	27:45	1	2.374	A BE	1247670.	59.998 UG/KG	1.41
39	106	609	30:57	1	2.648	A BE	603348.	59.998 UG/KG	1.41
40	104	748	38:01	1	3.252	A BE	1263550.	59.998 UG/KG	1.41
41	106	793	40:19	1	3.448	A BE	792488.	59.998 UG/KG	1.41
42	65	284	14:26	1	1.235	A BE	101545.	10.000 UG/KG	0.23
43	100	512	26:02	1	2.226	A BV	142219.	10.000 UG/KG	0.23
44	176	692	35:11	1	3.007	A*BE	178472.	10.000 UG/KG	0.23

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	11:41	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:45	1.00	0.235	1.00	60.00	60.00	0.432	0.432	1.00
3	4:25	1.00	0.378	1.00	60.00	60.00	1.694	1.694	1.00
4	5:23	1.00	0.461	1.00	60.00	60.00	1.708	1.708	1.00
5	6:36	1.00	0.565	1.00	60.00	60.00	0.313	0.313	1.00
6	8:42	1.00	0.743	1.00	60.00	60.00	0.679	0.679	1.00
7	9:15	1.00	0.791	1.00	449.98	449.98	0.058	0.058	1.00
8	9:15	1.00	0.791	1.00	599.98	599.98	0.074	0.074	1.00
9	9:52	1.00	0.843	1.00	599.98	599.98	0.176	0.176	1.00
10	10:44	1.00	0.917	1.00	60.00	60.00	1.595	1.595	1.00

013804

005130

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:16	1.00	0.878	1.00	60.00	60.00	2.817	2.817	1.00
12	11:20	1.00	0.970	1.00	60.00	60.00	0.708	0.708	1.00
13	12:36	1.00	1.078	1.00	60.00	60.00	0.311	0.311	1.00
14	13:16	1.00	1.135	1.00	60.00	60.00	0.780	0.780	1.00
15	13:43	1.00	1.174	1.00	60.00	60.00	1.517	1.517	1.00
16	14:29	1.00	1.237	1.00	60.00	60.00	0.976	0.976	1.00
17	14:26	1.00	1.235	1.00	449.78	449.78	0.075	0.075	1.00
18	15:55	1.00	1.361	1.00	60.00	60.00	1.241	1.241	1.00
19	16:16	1.00	1.391	1.00	60.00	60.00	1.480	1.480	1.00
20	20:57	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:19	1.00	1.376	1.00	60.00	60.00	1.025	1.025	1.00
22	16:37	1.00	1.422	1.00	60.00	60.00	0.171	0.171	1.00
23	18:09	1.00	1.552	1.00	60.00	60.00	0.211	0.211	1.00
24	18:21	1.00	1.570	1.00	60.00	60.00	1.404	1.404	1.00
25	18:55	1.00	1.617	1.00	60.00	60.00	1.266	1.266	1.00
26	19:31	1.00	1.670	1.00	60.00	60.00	2.241	2.241	1.00
27	19:34	1.00	1.674	1.00	60.00	60.00	0.988	0.988	1.00
28	19:37	1.00	1.678	1.00	60.00	60.00	0.749	0.749	1.00
29	19:28	1.00	1.665	1.00	60.00	60.00	1.555	1.555	1.00
30	20:44	1.00	1.774	1.00	60.00	60.00	0.315	0.315	1.00
31	22:10	1.00	1.876	1.00	60.00	60.00	1.706	1.706	1.00
32	22:46	1.00	1.948	1.00	90.00	90.00	0.280	0.280	1.00
33	24:50	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:21	1.00	2.083	1.00	90.00	90.00	0.225	0.225	1.00
35	24:33	1.00	2.100	1.00	60.00	60.00	1.672	1.672	1.00
36	24:39	1.00	2.107	1.00	60.00	60.00	1.319	1.319	1.00
37	26:14	1.00	2.243	1.00	60.00	60.00	1.552	1.552	1.00
	27:45	1.00	2.374	1.00	60.00	60.00	2.294	2.294	1.00
37	30:57	1.00	2.648	1.00	60.00	60.00	1.107	1.107	1.00
40	38:01	1.00	3.252	1.00	60.00	60.00	2.323	2.323	1.00
41	40:19	1.00	3.448	1.00	60.00	60.00	1.457	1.457	1.00
42	14:26	1.00	1.235	1.00	10.00	10.00	1.120	1.120	1.00
43	26:02	1.00	2.226	1.00	10.00	10.00	1.567	1.567	1.00
44	35:11	1.00	3.007	1.00	10.00	10.00	1.967	1.967	1.00

013805

Mead ComputuChem GC/MS Analysis Log

Handwritten initials/signature

Initial Time of Tune 0214
Time Tune Elapses 18/07
08
03

Press Hard, Multiple Copies

Run Log	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	B#840203C16	✓		2µl	714		186	10929
2	G#840203CE6	✓		10µl	714		186	D226, 10941
3	G#840203C18	✓		10µl	714		188	10926, 10941-056
4	G#019534C18			10µl	714		188	10926, 10941
5	G#019524C18			10µl	714		188	10926, 10941
6	G#019535C18			10µl	714		186	10934, 10941
7	G#019507C18			10µl	714		188	10934, 10941
8	G#019509C18			10µl	714		185	10934, 10941
9	G#019520A18			10µl	633		185	" "
10	G#019558A18			10µl	633		185	" "
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

005132

Mead ComputChem GC/MS Analysis Log

Press Hard, Multiple Copies

Initial Time of Run 0214 Shift(s) (A) 1 (B) 0 (C) 0
 Time Time Elapses 1014 Date 2/26/84
 Analysis Type VOL-4336

No.	Used		Amount injected	Operator	Tape No.	Disc. No.	COMMENTS
	Used	Not Used					
	✓		2µl	714		186	10939
	✓		10µl	714		186	10936, 10941
	✓		10µl	714		186	10936, 10941, Dr. A. V. 286 All RIR up to 10.0
2364			10µl	714		186	10936, 10941
24890			10µl	714		186	10936, 10941
2376			10µl	714		186	10936, 10941
1-2745-			10µl	714		186	10936, 10941
2377			10µl	714		186	10936, 10941
E2255			10µl	714		186	10936, 10941
2371			10µl	714		186	10936, 10941
2371			10µl	633		186	" "
E2761			10µl	633		186	" "
2336			10µl	633		186	" "
R3617			10µl	633		186	" "

Circle correct code number: 237 (liquids) or 238 (solids)
 Instrument Procedure Code DATE 1/30/84 OPERATOR GTS

RENU LABORATORY
 CALIBRATION CHECK Date 2/3/84
 Standard File Name G8870223C18
 Operator RF # 87694

COMPOUND NAME	AUTOQ NO.	SPEC/CCC	20 RF	40 RF	60 RF	RF	RET	CALIBRATION CHECK	Date
Chloroethane	2	SPEC	0.195	0.505	0.709	0.653		0.432	2/3/84
Vinyl chloride	4	CCC	2.130	1.777	2.202	1.056		1.706	16
1,1-Dichloroethylene	12	CCC	0.665	0.673	0.790	0.794		0.706	11
1,1-Dichloroethane	13	SPEC	0.435	0.541	0.371	0.337		0.311	8.6
Chloroform	15	CCC	1.871	1.372	1.236	1.613		1.519	12
1,2-Dichloropropane	23	CCC	0.271	0.285	0.256	0.291		0.211	
2-Chloroethylvinylchlor	30	SPEC	0.439	0.297	0.523	0.518		0.315	
Bromoform	31	SPEC	1.491	1.204	1.477	1.374		1.706	
1,1,2,2-Tetrachloroethane	35	SPEC	1.105	1.371	1.778	1.651		1.472	
Toluene	37	CCC	1.731	1.319	1.414	1.534		1.552	2.6
Chlorobenzene	38	SPEC	2.490	1.106	1.217	1.204		2.294	

All RAT of each compound in the standard, including SPEC and CCC, must be within 0.8 - 1.20

RF = Average Response Factor: must be above 0.30 for each SPEC
 SPC = System Performance Check Compounds in Multipoint Calibration and Calibration Check
 CCC = Calibration Check Compounds; criteria must be met before analysis of samples
 SD = Percent difference; all SD must be less than 20%, calculated as $SD = \frac{RF - RE}{RE} \times 100\%$

g-3 AP

POSTED

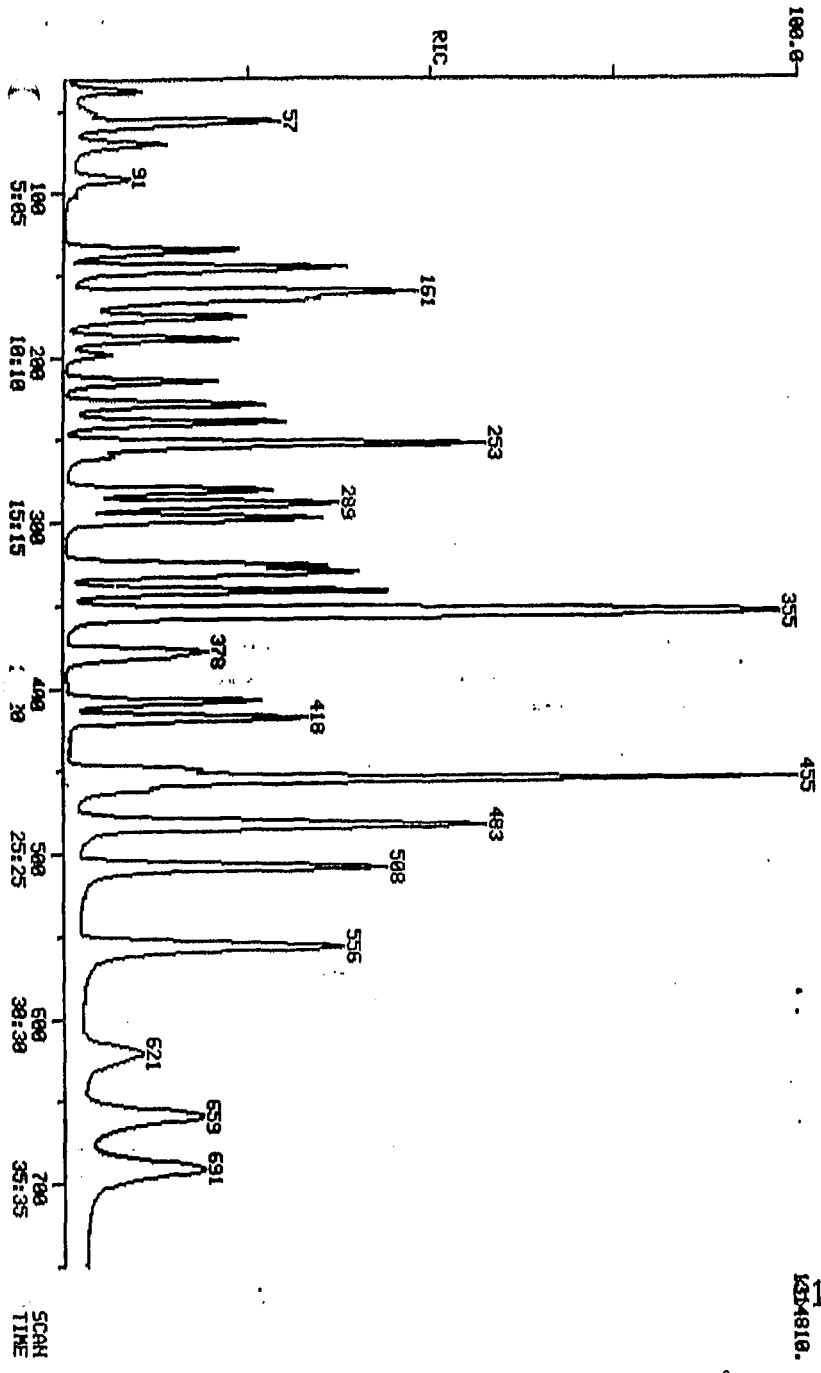
005134

RIC
82/83/84 13:43:08
SAMPLE: 10 NL H2O + STD #1817 ON #12

NEAD COMPUTER DATA: CS840203A12

SCANS 30 TO 750

13800
1354818.



PROCEDURE: RK
 DATA FILE: G8840203A12
 REFERENCE: V238
 METHOD: V238
 REPORT: V238S1

DIAGNOSTIC REPORT

2/03/84 14:25:35

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< --- STANDARDS --- > --- PLUS UNKNOWN --- > --- LIST NAMES --- >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 3 3 2 31 44 37 1 42 V238S1/V238S1

44 COMPOUNDS PROCESSED, 37 FOUND

COMPOUND		SEARCH										SAT		CHRO	
NO	LID	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS		
1	P5	1	-199	199	199	.	1	759	.	130	198	-1	1		
2	P6	1	-282	281	281	.	2	775	.	79	281	.	1		
3	P7	1	-463	461	461	.	1	987	.	55	461	.	1		
4	P5	2	-37	37	.	.	.	.	.	50	37	.	1
5	P5	3	-56	56	57	1	1	921	.	94	57	.	1		
6	P5	4	-70	70	.	.	.	.	.	62	70	.	1
7	P5	5	-91	91	.	.	.	.	.	64	91	.	1
8	P5	6	-135	135	135	.	1	910	.	84	135	.	1		
9	P5	7	-146	146	146	.	1	959	.	58	146	.	1		
10	P5	8	-146	146	.	.	.	.	.	56	146	.	1
11	P5	9	-161	161	161	.	1	992	.	53	161	.	1		
12	P5	10	-176	176	176	.	1	918	.	101	176	.	1		
13	P5	11	-166	166	165	-1	1	978	.	76	165	.	1		
14	P5	12	-190	190	189	-1	1	934	.	96	189	.	1		
15	P5	13	-216	216	215	-1	1	939	.	65	215	.	1		
16	P5	14	-229	228	229	1	1	947	.	96	229	.	1		
17	P5	15	-241	240	240	.	1	986	.	83	240	.	1		
18	P5	16	-255	254	254	.	1	926	.	62	254	.	1		
19	P5	17	-253	252	252	.	1	974	.	72	252	.	1		
20	P5	18	-282	281	281	.	1	944	.	97	281	.	1		
21	P5	19	-290	289	289	.	1	943	.	117	289	.	1		
22	P6	2	-291	290	290	.	1	966	.	43	290	.	1		
23	P6	3	-299	298	298	.	1	946	.	127	298	.	1		
24	P6	4	-327	326	326	.	1	977	.	65	326	.	1		
25	P6	5	-331	330	331	1	1	942	.	75	331	.	1		
26	P6	6	-342	341	341	.	1	935	.	130	341	.	1		
27	P6	7	-354	353	353	.	1	993	.	78	353	.	1		
28	P6	8	-357	356	356	.	1	987	.	97	356	.	1		
29	P6	9	-357	356	356	.	1	987	.	75	356	.	1		
30	P6	10	-355	354	.	.	.	.	.	127	354	.	1
31	P6	11	-379	378	378	.	1	976	.	63	378	.	1		
32	P6	12	-409	408	408	.	1	980	.	173	408	.	1		
33	P6	13	-419	418	418	.	1	989	.	58	418	.	1		
34	P7	2	-450	449	449	.	1	976	.	58	449	.	1		
35	P7	3	-456	455	.	.	.	.	.	83	455	.	1
36	P7	4	-456	455	455	.	1	912	.	164	455	.	1		
37	P7	5	-484	483	483	.	1	977	.	92	483	.	1		
38	P7	6	-509	508	508	.	1	973	.	112	508	.	1		
39	P7	7	-558	556	556	.	1	982	.	106	556	.	1		
40	P7	8	-661	659	659	.	1	990	.	104	659	.	1		
41	P7	9	-693	691	691	.	1	997	.	106	692	.	1		
42	P8	2	-254	253	.	.	.	.	.	65	253	.	1
3	P8	3	-480	479	479	.	1	985	.	100	479	.	1		
44	P8	4	-621	619	620	1	1	972	.	176	620	.	1		

QUANTITATION REPORT FILE: G8B40203A12

DATA: G8B40203A12.TI

02/03/84 13:43:00

SAMPLE: 10 ML H2O + STD #1B17 ON #12

SUBMITTED BY: #12

ANALYST: 633

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

- NO NAME
- 1 * BROMOCHLOROMETHANE (IB)
- 2 221 CHLOROMETHANE
- 3 220 BROMOMETHANE
- 4 231 VINYL CHLORIDE
- 5 209 CHLOROETHANE
- 6 222 METHYLENE CHLORIDE
- 7 252 ACETONE (2-PROPANONE)
- 8 201 ACROLEIN
- 9 202 ACRYLONITRILE
- 10 230 TRICHLOROFLUOROMETHANE
- 11 254 CARBON DISULFIDE
- 12 216 1, 1-DICHLOROETHYLENE
- 13 214 1, 1-DICHLOROETHANE
- 14 226 TRANS-1, 2-DICHLOROETHYLENE
- 15 211 CHLOROFORM
- 16 215 1, 2-DICHLOROETHANE
- 17 253 2-BUTANONE
- 18 227 1, 1, 1-TRICHLOROETHANE
- 19 206 CARBON TETRACHLORIDE
- 20 * 2-BROMO-1-CHLOROPROPANE
- 21 257 VINYL ACETATE
- 22 212 BROMODICHLOROMETHANE
- 23 217 1, 2-DICHLOROPROPANE
- 24 250 TRANS-1, 3-DICHLOROPROPENE
- 25 229 TRICHLOROETHYLENE
- 26 203 BENZENE
- 27 228 1, 1, 2-TRICHLOROETHANE
- 28 218 CIS-1, 3-DICHLOROPROPENE
- 29 208 DIBROMOCHLOROMETHANE
- 30 210 2-CHLOROETHYL VINYL ETHER
- 31 205 BROMOFORM
- 32 256 4-METHYL-2-PENTANONE
- 33 * DICHLOROBUTANE
- 34 255 2-HEXANONE
- 35 223 1, 1, 2, 2-TETRACHLOROETHANE
- 36 224 TETRACHLOROETHENE
- 37 225 TOLUENE
- 38 207 CHLOROBENZENE
- 39 219 ETHYLBENZENE
- 40 251 STYRENE
- 41 239 O-XYLENE
- 42 * D4-1, 2-DICHLOROETHANE
- 43 * D8-TOLUENE
- 44 * BROMOFLUOROBENZENE

*med
1526*

NO M/E SCAN TIME REF RRT METH AREA(HGHT) AMOUNT

ΣTOT
013811

005137

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	%TOT
1	130	198	10:04	1	1.000	A BB	72153	10.000 UG/KG	0.31
2	50	37	1:53	1	0.187	A BB	325242	49.981 UG/KG	1.56
3	94	57	2:54	1	0.288	A BV	610379	48.150 UG/KG	1.51
4	62	70	3:33	1	0.354	A BB	415840	44.313 UG/KG	1.39
5	64	91	4:38	1	0.460	A BB	241825	47.820 UG/KG	1.50
6	84	135	6:52	1	0.682	A BV	411920	45.603 UG/KG	1.43
7	58	146	7:25	1	0.737	A BB	303446	357.757 UG/KG	11.20
8	56	146	7:25	1	0.737	A BB	574240	453.312 UG/KG	14.19
9	33	161	8:11	1	0.813	A BB	1145940	466.349 UG/KG	14.60
10	101	176	8:57	1	0.889	A BB	583855	38.798 UG/KG	1.21
11	76	165	8:23	1	0.833	A BB	1391750	38.415 UG/KG	1.20
12	96	189	9:36	1	0.955	A BB	316521	39.518 UG/KG	1.24
13	65	215	10:56	1	1.086	A BV	187434	41.240 UG/KG	1.29
14	96	229	11:38	1	1.157	A BB	367745	40.015 UG/KG	1.25
15	83	240	12:12	1	1.212	A BV	674532	40.977 UG/KG	1.28
16	62	254	12:55	1	1.283	A BV	402365	42.555 UG/KG	1.33
17	72	252	12:49	1	1.273	A BB	464690	344.117 UG/KG	10.77
18	97	281	14:17	1	1.419	A BV	502526	40.260 UG/KG	1.26
19	117	289	14:41	1	1.460	A VV	484967	39.393 UG/KG	1.23
20	79	301	19:22	20	1.000	A BB	72153 72153	10.000 UG/KG	0.31
21	43	290	14:44	1	1.465	A VB	594735	40.604 UG/KG	1.27
22	127	298	15:09	1	1.505	A BB	536472	40.568 UG/KG	1.27
23	65	326	16:34	1	1.646	A BB	153229	41.675 UG/KG	1.30
24	75	331	16:50	1	1.672	A BB	754023	41.330 UG/KG	1.29
25	130	341	17:20	1	1.722	A BV	433797	39.293 UG/KG	1.23
26	78	353	17:57	1	1.783	A BB	1154160	40.400 UG/KG	1.26
27	97	356	18:06	1	1.798	A VB	448551	41.344 UG/KG	1.29
28	75	356	18:06	1	1.798	A BB	371261	40.914 UG/KG	1.28
29	127	354	18:00	1	1.788	A BV	452852	39.360 UG/KG	1.23
30	63	378	19:13	1	1.909	A BB	272442	65.686 UG/KG	2.68
31	173	408	20:44	1	2.061	A BB	393324	39.341 UG/KG	1.23
32	58	418	21:15	1	2.111	A BB	300554	63.121 UG/KG	1.98
33	55	461	23:26	33	1.000	A BB	72153 180106	10.000 UG/KG	0.31
34	58	449	22:49	1	2.268	A BB	242396	62.210 UG/KG	1.95
35	83	455	23:08	1	2.298	A BB	892529	40.270 UG/KG	1.26
36	164	455	23:08	1	2.298	A BV	384147	37.293 UG/KG	1.17
37	92	483	24:33	1	2.439	A BB	791770	39.410 UG/KG	1.23
38	112	508	25:49	1	2.566	A BB	956978	38.199 UG/KG	1.20
39	106	556	28:16	1	2.808	A BB	437733	37.825 UG/KG	1.18
40	104	659	33:30	1	3.328	A BB	619154	50.169 UG/KG	1.57
41	106	692	35:11	1	3.495	A BB	375271	56.404 UG/KG	1.77
42	65	253	12:52	1	1.278	A BB	126811	9.380 UG/KG	0.29
43	100	479	24:21	1	2.419	A BV	204896	9.421 UG/KG	0.29
44	176	620	31:31	1	3.131	A BB	122162	10.773 UG/KG	0.34

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:07	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	1:53	1.00	0.186	1.01	49.98	40.00	1.127	0.902	1.25
3	2:51	1.02	0.281	1.02	48.15	40.00	2.115	1.757	1.20
4	2:47	1.28	0.352	1.01	44.51	40.00	1.441	1.295	1.11
5	4:38	1.00	0.457	1.01	47.82	40.00	0.838	0.701	1.20
6	6:52	1.00	0.678	1.01	45.60	40.00	1.427	1.252	1.14
7	7:25	1.00	0.734	1.01	357.76	299.99	0.140	0.118	1.19
8	7:25	1.00	0.734	1.01	453.31	399.99	0.199	0.176	1.13
9	8:11	1.00	0.809	1.01	466.35	399.99	0.397	0.341	1.17
10	8:57	1.00	0.884	1.01	38.80	40.00	2.023	2.086	0.97

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NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	8:26	0.99	0.834	1.00	38.41	40.00	4.822	5.021	0.96
12	9:39	0.99	0.955	1.00	39.52	40.00	1.097	1.110	0.99
13	10:59	1.00	1.085	1.00	41.24	40.00	0.649	0.630	1.03
14	11:38	1.00	1.151	1.01	40.01	40.00	1.274	1.274	1.00
15	12:15	1.00	1.211	1.00	41.00	40.00	2.337	2.280	1.02
16	12:58	1.00	1.281	1.00	42.55	40.00	1.394	1.310	1.06
17	12:52	1.00	1.271	1.00	344.12	299.99	0.215	0.187	1.15
18	14:20	1.00	1.417	1.00	40.26	40.00	1.741	1.730	1.01
19	14:44	1.00	1.457	1.00	39.39	40.00	1.680	1.706	0.98
20	19:25	1.00	1.800	1.00	10.00	10.00	1.000	1.000	1.00
21	14:48	1.00	1.462	1.00	40.60	40.00	2.061	2.030	1.02
22	15:12	1.00	1.503	1.00	40.57	40.00	0.186	0.183	1.01
23	16:37	1.00	1.643	1.00	41.68	40.00	0.531	0.510	1.04
24	16:50	1.00	1.663	1.01	41.33	40.00	2.613	2.527	1.03
25	17:23	1.00	1.719	1.00	39.29	40.00	1.503	1.530	0.98
26	18:00	1.00	1.779	1.00	40.40	40.00	3.999	3.959	1.01
27	18:09	1.00	1.794	1.00	41.34	40.00	1.554	1.504	1.03
28	18:09	1.00	1.794	1.00	40.91	40.00	1.286	1.258	1.02
29	18:03	1.00	1.784	1.00	39.36	40.00	1.566	1.592	0.98
30	19:16	1.00	1.905	1.00	65.69	40.00	0.944	0.441	2.14
31	20:47	1.00	2.055	1.00	39.34	40.00	1.363	1.386	0.98
32	21:18	1.00	2.106	1.00	63.12	60.00	0.694	0.660	1.05
33	23:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	22:52	1.00	2.261	1.00	62.21	60.00	0.560	0.540	1.04
35	23:11	1.00	2.291	1.00	40.27	40.00	3.093	3.072	1.01
36	23:11	1.00	2.291	1.00	37.29	40.00	1.331	1.428	0.93
37	24:36	1.00	2.432	1.00	39.41	40.00	2.743	2.784	0.99
38	25:52	1.00	2.558	1.00	38.20	40.00	3.316	3.472	0.95
39	28:22	1.00	2.804	1.00	37.82	40.00	1.517	1.604	0.95
40	33:36	1.00	3.322	1.00	50.17	40.00	2.145	1.710	1.25
41	35:14	1.00	3.482	1.00	56.40	40.00	1.300	0.922	1.41
42	12:55	1.00	1.276	1.00	9.38	10.00	1.758	1.874	0.94
43	24:24	1.00	2.412	1.00	9.42	10.00	2.840	3.014	0.94
44	31:34	1.00	3.121	1.00	10.77	10.00	1.693	1.572	1.08

013913

005139

QUANTITATION REPORT FILE: GSB40203A12

DATA: GSB40203A12.TI

02/03/84 13:43:00

SAMPLE: 10 ML H2O + STD #1817 ON #12

SUBMITTED BY: #12 ANALYST: 433

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

- NO NAME
- 1 * BROMOCHLOROMETHANE (IS)
- 2 221 CHLOROMETHANE
- 3 220 BROMOMETHANE
- 4 231 VINYL CHLORIDE
- 5 209 CHLOROETHANE
- 6 222 METHYLENE CHLORIDE
- 7 252 ACETONE (2-PROPANONE)
- 8 201 ACROLEIN
- 9 202 ACRYLONITRILE
- 10 230 TRICHLOROFLUOROMETHANE
- 11 254 CARBON DISULFIDE
- 12 216 1, 1-DICHLOROETHYLENE
- 13 214 1, 1-DICHLOROETHANE
- 14 226 TRANS-1, 2-DICHLOROETHYLENE
- 15 211 CHLOROFORM
- 16 215 1, 2-DICHLOROETHANE
- 17 253 2-BUTANONE
- 18 227 1, 1, 1-TRICHLOROETHANE
- 19 204 CARBON TETRACHLORIDE
- 20 * 2-BROMO-1-CHLOROPROPANE
- 21 257 VINYL ACETATE
- 22 212 BROMODICHLOROMETHANE
- 23 217 1, 2-DICHLOROPROPANE
- 24 250 TRANS-1, 3-DICHLOROPROPENE
- 25 229 TRICHLOROETHYLENE
- 26 203 BENZENE
- 27 228 1, 1, 2-TRICHLOROETHANE
- 28 218 CIS-1, 3-DICHLOROPROPENE
- 29 208 DIBROMOCHLOROMETHANE
- 30 210 2-CHLOROETHYL VINYL ETHER
- 31 205 BROMOFORM
- 32 254 4-METHYL-2-PENTANONE
- 33 * DICHLOROBUTANE
- 34 255 2-HEXANONE
- 35 223 1, 1, 2, 2-TETRACHLOROETHANE
- 36 224 TETRACHLOROETHENE
- 37 225 TOLUENE
- 38 207 CHLOROBENZENE
- 39 219 ETHYLBENZENE
- 40 251 STYRENE
- 41 239 O-XYLENE
- 42 * D4-1, 2-DICHLOROETHANE
- 43 * DB-TOLUENE
- 44 * BROMOFLUOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
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NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	178	10:04	1	1.000	A BB	72153.	10.000 UG/KG	0.35
2	50	37	1:53	1	0.187	A BB	325242.	39.999 UG/KG	1.40
3	94	57	2:54	1	0.288	A BV	610379.	39.999 UG/KG	1.40
4	62	70	3:33	1	0.354	A BB	415840.	39.999 UG/KG	1.40
5	64	91	4:38	1	0.460	A BB	241825.	39.999 UG/KG	1.40
6	84	135	6:52	1	0.682	A BV	411920.	39.999 UG/KG	1.40
7	58	146	7:25	1	0.737	A BB	303446.	299.993 UG/KG	10.49
8	56	146	7:25	1	0.737	A BB	574240.	399.993 UG/KG	13.99
9	53	161	8:11	1	0.813	A BB	1145940.	399.993 UG/KG	13.99
10	101	176	8:57	1	0.889	A BB	583855.	39.999 UG/KG	1.40
11	76	165	8:23	1	0.833	A BB	1391750.	39.999 UG/KG	1.40
12	96	189	9:36	1	0.955	A BB	316521.	39.999 UG/KG	1.40
13	65	215	10:56	1	1.086	A BV	187434.	39.999 UG/KG	1.40
14	96	229	11:38	1	1.157	A BB	367745.	39.999 UG/KG	1.40
15	83	240	12:12	1	1.212	A BV	674532.	39.999 UG/KG	1.40
16	62	254	12:55	1	1.283	A BV	402365.	39.999 UG/KG	1.40
17	72	252	12:49	1	1.273	A BB	464690.	299.993 UG/KG	10.49
18	97	281	14:17	1	1.419	A BV	502526.	39.999 UG/KG	1.40
19	117	289	14:41	1	1.460	A VV	484967.	39.999 UG/KG	1.40
20	79	381	19:22	20	1.000	A BB	70275.	10.000 UG/KG	0.35
21	43	290	14:44	1	1.465	A VB	594735.	39.999 UG/KG	1.40
22	127	298	15:09	1	1.505	A BB	53672.	39.999 UG/KG	1.40
23	65	326	16:34	1	1.646	A BB	153227.	39.999 UG/KG	1.40
24	75	331	16:50	1	1.672	A BB	754023.	39.999 UG/KG	1.40
25	130	341	17:20	1	1.722	A BV	423799.	39.999 UG/KG	1.40
26	78	353	17:57	1	1.783	A BB	1154160.	39.999 UG/KG	1.40
27	97	356	18:06	1	1.798	A VB	448551.	39.999 UG/KG	1.40
28	75	356	18:06	1	1.798	A BB	371261.	39.999 UG/KG	1.40
9	127	354	18:00	1	1.788	A BV	452052.	39.999 UG/KG	1.40
30	63	378	19:13	1	1.909	A BB	272442.	39.999 UG/KG	1.40
31	173	408	20:44	1	2.061	A BB	393324.	39.999 UG/KG	1.40
32	58	418	21:15	1	2.111	A BB	300554.	59.999 UG/KG	2.10
33	55	461	23:26	33	1.000	A BB	180106.	10.000 UG/KG	0.35
34	58	449	22:49	1	2.268	A BB	242396.	59.999 UG/KG	2.10
35	83	455	23:08	1	2.298	A BB	892529.	39.999 UG/KG	1.40
36	164	455	23:08	1	2.298	A BV	384147.	39.999 UG/KG	1.40
37	92	483	24:33	1	2.439	A BB	791770.	39.999 UG/KG	1.40
38	112	508	25:49	1	2.566	A BB	956978.	39.999 UG/KG	1.40
39	104	556	28:16	1	2.808	A BB	437733.	39.999 UG/KG	1.40
40	104	659	33:30	1	3.328	A BB	619154.	39.999 UG/KG	1.40
41	106	692	35:11	1	3.495	A BB	375271.	39.999 UG/KG	1.40
42	65	253	12:52	1	1.278	A BB	126811.	10.000 UG/KG	0.35
43	100	479	24:21	1	2.419	A BV	204896.	10.000 UG/KG	0.35
44	176	620	31:31	1	3.131	A BB	122162.	10.000 UG/KG	0.35

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:04	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	1:53	1.00	0.187	1.00	40.00	40.00	1.127	1.127	1.00
3	2:54	1.00	0.288	1.00	40.00	40.00	2.115	2.115	1.00
4	3:33	1.00	0.354	1.00	40.00	40.00	1.441	1.441	1.00
5	4:38	1.00	0.460	1.00	40.00	40.00	0.838	0.838	1.00
6	6:52	1.00	0.682	1.00	40.00	40.00	1.427	1.427	1.00
7	7:25	1.00	0.737	1.00	299.99	299.99	0.140	0.140	1.00
8	7:25	1.00	0.737	1.00	399.99	399.99	0.199	0.199	1.00
9	8:11	1.00	0.813	1.00	399.99	399.99	0.397	0.397	1.00
10	8:57	1.00	0.889	1.00	40.00	40.00	2.023	2.023	1.00

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NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	8:23	1.00	0.833	1.00	40.00	40.00	4.822	4.822	1.00
	9:36	1.00	0.955	1.00	40.00	40.00	1.097	1.097	1.00
	10:56	1.00	1.086	1.00	40.00	40.00	0.649	0.649	1.00
14	11:38	1.00	1.157	1.00	40.00	40.00	1.274	1.274	1.00
15	12:12	1.00	1.212	1.00	40.00	40.00	2.337	2.337	1.00
16	12:55	1.00	1.283	1.00	40.00	40.00	1.394	1.394	1.00
17	12:49	1.00	1.273	1.00	299.99	299.99	0.215	0.215	1.00
18	14:17	1.00	1.419	1.00	40.00	40.00	1.741	1.741	1.00
19	14:41	1.00	1.460	1.00	40.00	40.00	1.680	1.680	1.00
20	19:22	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	14:44	1.00	1.465	1.00	40.00	40.00	2.061	2.061	1.00
22	15:09	1.00	1.505	1.00	40.00	40.00	0.186	0.186	1.00
23	16:34	1.00	1.646	1.00	40.00	40.00	0.531	0.531	1.00
24	16:50	1.00	1.672	1.00	40.00	40.00	2.613	2.613	1.00
25	17:20	1.00	1.722	1.00	40.00	40.00	1.503	1.503	1.00
26	17:57	1.00	1.783	1.00	40.00	40.00	3.999	3.999	1.00
27	18:06	1.00	1.798	1.00	40.00	40.00	1.554	1.554	1.00
28	18:06	1.00	1.798	1.00	40.00	40.00	1.286	1.286	1.00
29	18:00	1.00	1.788	1.00	40.00	40.00	1.566	1.566	1.00
30	19:13	1.00	1.909	1.00	40.00	40.00	0.944	0.944	1.00
31	20:44	1.00	2.061	1.00	40.00	40.00	1.363	1.363	1.00
32	21:15	1.00	2.111	1.00	60.00	60.00	0.694	0.694	1.00
33	23:26	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	22:49	1.00	2.268	1.00	60.00	60.00	0.560	0.560	1.00
35	23:08	1.00	2.298	1.00	40.00	40.00	3.093	3.093	1.00
36	23:08	1.00	2.298	1.00	40.00	40.00	1.331	1.331	1.00
37	24:33	1.00	2.439	1.00	40.00	40.00	2.743	2.743	1.00
38	25:49	1.00	2.566	1.00	40.00	40.00	3.316	3.316	1.00
39	28:16	1.00	2.808	1.00	40.00	40.00	1.517	1.517	1.00
40	33:30	1.00	3.328	1.00	40.00	40.00	2.145	2.145	1.00
41	35:11	1.00	3.495	1.00	40.00	40.00	1.300	1.300	1.00
42	12:52	1.00	1.278	1.00	10.00	10.00	1.758	1.758	1.00
43	24:21	1.00	2.419	1.00	10.00	10.00	2.840	2.840	1.00
44	31:31	1.00	3.131	1.00	10.00	10.00	1.693	1.693	1.00

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Need ComputChem GC/MS Analysis Log

2333

Initial Time of Tune 9:57
Time Tune Elapses 1:03.33
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Date 10/24/94
Anal

Press Hard, Multiple Copies

Run Log	File Name	Used	Not Used	Amount Requested	Operator	Tape No.	Disc. No.	10
1	6F840203A12			2nd	SL			24839
2	6F840203A12	✓		2nd	SL		129	10939
3	6B940203AIR		✓	10nd	SL		129	10936+16
4	6C840203AIR		✓	10nd	SL		129	"
5	6D840203AIR		✓	10nd	SL		129	"
6	6E840203AIR		✓	2nd	SL		129	10939
7	6F840203AIR		✓	10nd	SL		129	"
8	6S840203A12			10nd	SL		129	"
9	6H019559AIR			10nd	SL		129	"
10	6H019560AIR			10nd	SL		129	"
11	6H019576AIR			10nd	SL		129	10936 10941
12	6H019577AIR			10nd	SL		129	10936 10941
13	6H019578AIR			10nd	SL		129	10936 10941
14	6H019581AIR			10nd	SL		129	10936 10941
15	6H019582AIR			10nd	SL		129	10936 10941
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Circle correct code number: 237 (liquids) or 238 (solids)
 Instrument Procedure Code 237 (liquids) or 238 (solids)
 INITIAL MULTIPoint CALIBRATION DATE 2-3-84 OPERATOR RLT

Operator RLT
 Standard File Name 633
 Date 2/3/84
 Date 15-5-84

COMPOUND NAME	AUTOQ NO.	SPCC	20 NF	40 NF	60 NF	RF	RRT	RE	CALIBRATION CHECK	Date
Chloroethane	2	SPCC	0.681	1.067	0.902		0.885		1.127	15-5-84
Vinyl chloride	4	CCC	0.941	1.509	1.685		0.247		1.097	5-1
1,1-Dichloroethylene	12	CCC	1.109	1.250	1.110		1.856		0.649	3-3
1,1-Dichloroethane	13	SPCC	0.679	0.721	0.630		2.417		2.337	2.4
Chloroform	15	CCC	2.661	2.461	2.392		0.544		0.531	
1,2-Dichloropropane	23	CCC	0.580	0.602	0.510		0.944		0.944	
2-Chloroethylvinylether	30	SPCC	0.991	0.392	0.411		0.449		1.363	
Bromoform	31	SPCC	1.335	1.718	1.316		1.488		3.093	
1,1,2,2-Tetrachloroethane	35	SPCC	2.491	3.871	3.072		3.297		2.743	8-4
Toluene	37	CCC	2.439	3.257	2.384		2.993		3.316	
Chlorobenzene	38	SPCC	3.718	4.023	3.472		3.769			

All RRT of each compound in the standard, including SPCC and CCC, must be within 0.8 - 1.20

RF = Average Response Factor; must be above 0.30 for each SPCC
 SPCC = System Performance Check Compounds in Multipoint Calibration and Calibration Check
 CCC = Calibration Check Compounds; criteria must be met before analysis of samples
 SD = Percent difference; all SD must be less than 20%, calculated as $SD = \frac{RF - RF \times 100}{RF}$

2-4-84
POSTED

1005145

RIC
02/03/84 13:43:08
SAMPLE: 10 ML H2O + STD #1817 ON #18

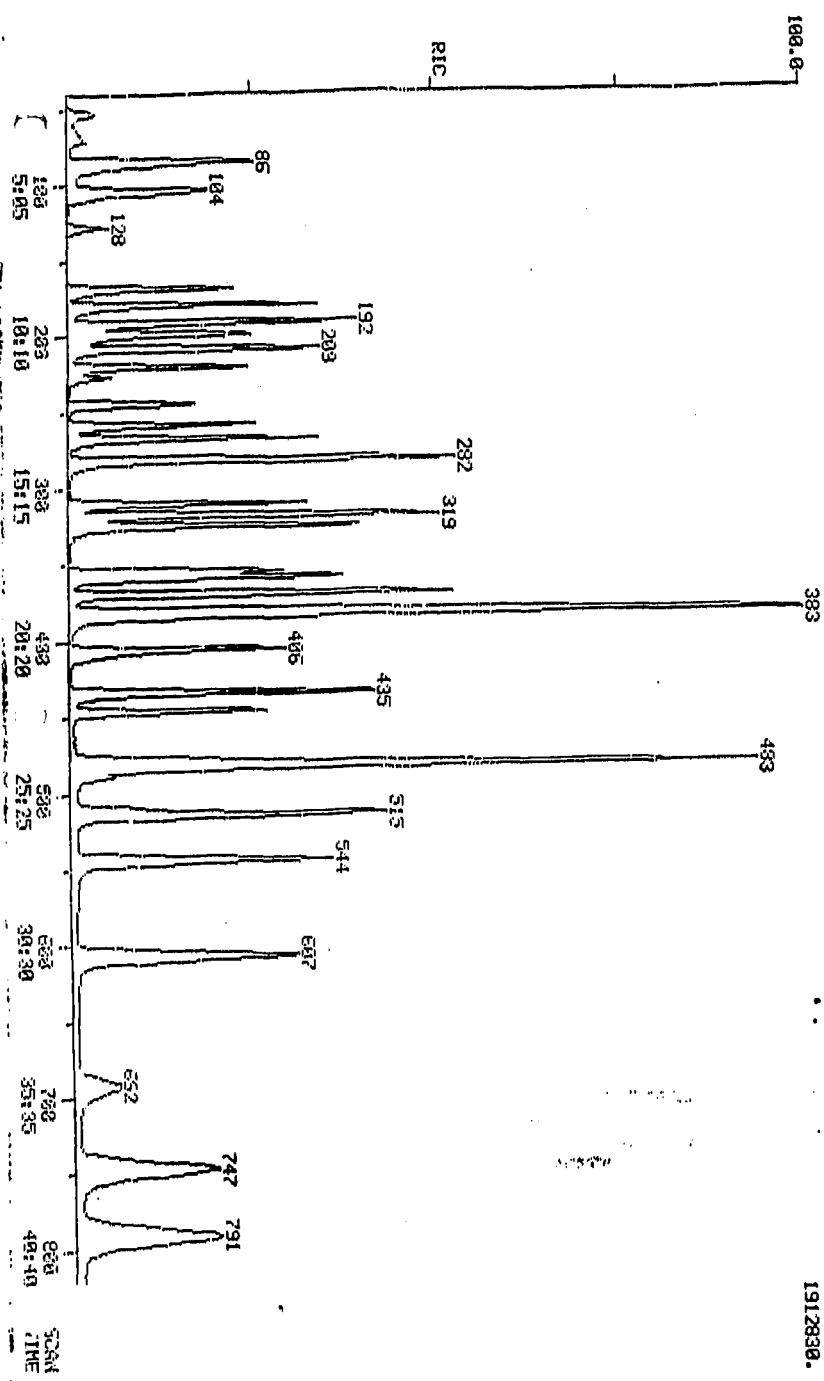
HEAD COMPUTED
DATE: 05840203R18

SCANS 40 TO 820

013820

005146

1912830.



PROCEDURE: RK DIAGNOSTIC REPORT

2/03/84 14:31:07

DATA FILE: G8840203A1B

REFERENCE: V238

METHOD: V238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

REPORT: V238S1

<----- STANDARDS -----> <--- PLUS UNKNOWN ---> <-- LIST NAMES -->

PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	0	44	39	1	48	V238S1/V238U1

44 COMPOUNDS PROCESSED, 39 FOUND

< COMPOUND > <----- SEARCH -----> < SAT > <----- CHRO ----->

NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	P5	1	-230	228	228	.	1	964	.	130	228	.	1
2	P6	1	-412	410	410	.	1	778	.	79	410	.	1
3	P7	1	-491	489	489	.	1	995	.	55	490	1	1
4	P5	2	-54	52	53	1	1	994	.	50	53	.	1
5	P5	3	-87	85	86	1	1	950	.	94	86	.	1
6	P5	4	-106	104	104	.	1	986	.	62	104	.	1
7	P5	5	-130	128	128	.	1	989	.	64	128	.	1
8	P5	6	-171	169	169	.	1	977	.	84	169	.	1
9	P5	7	-182	180	180	.	1	952	.	58	180	.	1
10	P5	8	-182	180	.	.	.	.	.	56	180	.	1
11	P5	9	-194	192	192	.	1	999	.	53	192	.	1
12	P5	10	-211	209	209	.	1	984	.	101	209	.	1
13	P5	11	-202	200	200	.	1	992	.	76	200	.	1
14	P5	12	-223	221	221	.	1	978	.	96	221	.	1
15	P5	13	-248	246	245	-1	1	995	.	65	245	.	1
16	P5	14	-261	259	259	.	1	985	.	96	259	.	1
17	P5	15	-270	268	268	.	1	985	.	83	268	.	1
18	P5	16	-285	283	283	.	1	966	.	62	283	.	1
19	P5	17	-284	282	282	.	1	977	.	72	282	.	1
20	P5	18	-313	311	311	.	1	978	.	97	311	.	1
21	P5	19	-320	318	319	1	1	994	.	117	318	-1	1
22	F6	2	-321	319	319	.	1	972	.	43	319	.	1
23	F6	3	-327	325	325	.	1	986	.	127	325	.	1
24	F6	4	-357	355	355	.	1	986	.	65	355	.	1
25	F6	5	-361	359	359	.	1	981	.	75	359	.	1
26	F6	6	-372	370	370	.	1	976	.	130	370	.	1
27	F6	7	-384	382	382	.	1	991	.	78	382	.	1
28	F6	8	-385	382	384	1	1	990	.	97	384	.	1
29	F6	9	-386	384	.	.	.	.	.	75	384	.	1
30	F6	10	-383	381	.	.	.	.	.	127	381	.	1
31	F6	11	-408	406	406	.	1	981	.	63	406	.	1
32	F6	12	-436	434	435	1	1	976	.	173	434	-1	1
33	F6	13	-448	446	447	1	1	993	.	58	447	.	1
34	F7	2	-479	477	478	1	1	966	.	58	477	-1	1
35	F7	3	-483	481	.	.	.	.	.	83	481	.	1
36	F7	4	-485	483	483	.	1	957	.	164	483	.	1
37	F7	5	-516	514	515	1	1	981	.	92	515	.	1
38	F7	6	-546	544	544	.	1	964	.	112	544	.	1
39	F7	7	-609	607	607	.	1	982	.	106	607	.	1
40	F7	8	-748	746	747	1	1	980	.	104	747	.	1
41	F7	9	-793	792	791	-1	1	986	.	106	791	.	1
42	F8	2	-284	282	.	.	.	.	.	65	282	.	1
43	F8	3	-512	510	510	.	1	978	.	100	510	.	1
44	F8	4	-692	690	691	1	1	991	.	176	690	-1	2

013821

QUANTITATION REPORT FILE: CS840203A1B

DATA: CS840203A1B.TI

02/03/84 13:49:00

SAMPLE: 10 ML H2O + STD #1817 ON #1B

SCANNED BY: #1B ANALYST: 633

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

- NO NAME
- 1 * BROMOCHLOROMETHANE (IS)
- 2 221 CHLOROMETHANE
- 3 220 BROMOMETHANE
- 4 231 VINYL CHLORIDE
- 5 209 CHLOROETHANE
- 6 222 METHYLENE CHLORIDE
- 7 252 ACETONE (2-PROPANONE)
- 8 201 ACRYLEIN
- 9 202 ACRYLONITRILE
- 10 230 TRICHLOROFLUOROMETHANE
- 11 254 CARBON DISULFIDE
- 12 216 1, 1-DICHLOROETHYLENE
- 13 214 1, 1-DICHLOROETHANE
- 14 226 TRANS-1, 2-DICHLOROETHYLENE
- 15 211 CHLOROFORM
- 16 215 1, 2-DICHLOROETHANE
- 17 253 2-BUTANONE
- 18 227 1, 1, 1-TRICHLOROETHANE
- 19 206 CARBON TETRACHLORIDE
- 20 * 2-BROMO-1-CHLOROPROPANE
- 21 257 VINYL ACETATE
- 22 212 BROMODICHLOROMETHANE
- 23 217 1, 2-DICHLOROPROPANE
- 24 250 TRANS-1, 3-DICHLOROPROPENE
- 25 227 TRICHLOROETHYLENE
- 26 203 BENZENE
- 27 228 1, 1, 2-TRICHLOROETHANE
- 28 218 CIS-1, 3-DICHLOROPROPENE
- 29 208 DIBROMOCHLOROMETHANE
- 30 210 2-CHLOROETHYL VINYL ETHER
- 31 205 BROMOFORM
- 32 256 4-METHYL-2-PENTANONE
- 33 * DICHLOROBUTANE
- 34 255 2-HEXANONE
- 35 223 1, 1, 2, 2-TETRACHLOROETHANE
- 36 224 TETRACHLOROETHENE
- 37 225 TOLUENE
- 38 207 CHLOROBENZENE
- 39 219 ETHYLBENZENE
- 40 251 STYRENE
- 41 239 O-XYLENE
- 42 * D4-1, 2-DICHLOROETHANE
- 43 * D8-TOLUENE
- 44 * BROMOFLUOROBENZENE

high
1827

NO M/E SCAN TIME REF RRT METH AREA(HGHT) AMOUNT ZTQT

013822

005148

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	%TOT
1	130	228	11:35	1	1.000	A BB	88630	10.000 UG/KG	0.22
2	50	53	2:42	1	0.232	A BV	217835	56.925 UG/KG	1.27
3	94	86	4:22	1	0.377	A BB	942898	62.808 UG/KG	1.40
4	62	104	5:17	1	0.456	A BV	942532	62.273 UG/KG	1.39
5	64	128	6:30	1	0.561	A BV	171569	61.779 UG/KG	1.38
6	84	169	8:35	1	0.741	A BB	389412	64.730 UG/KG	1.44
7	58	180	9:09	1	0.789	A VV	251357	492.027 UG/KG	10.95
8	56	180	9:09	1	0.789	A BV	399622	606.540 UG/KG	13.50
9	53	192	9:46	1	0.842	A BB	981179	628.440 UG/KG	13.99
10	101	209	10:37	1	0.917	A BV	905043	64.039 UG/KG	1.43
11	76	200	10:10	1	0.877	A BB	1514520	60.612 UG/KG	1.35
12	96	221	11:14	1	0.969	A BB	351500	55.995 UG/KG	1.25
13	65	245	12:27	1	1.075	A BB	160563	58.263 UG/KG	1.30
14	96	259	13:10	1	1.136	A BB	399921	57.881 UG/KG	1.29
15	83	268	13:37	1	1.175	A BV	796939	59.182 UG/KG	1.32
16	62	283	14:23	1	1.241	A BV	515717	58.395 UG/KG	1.30
17	72	282	14:20	1	1.237	A BV	403922	477.666 UG/KG	10.63
18	97	311	15:49	1	1.364	A BV	651118	59.213 UG/KG	1.32
19	117	318	16:10	1	1.395	A VB	762147	58.105 UG/KG	1.29
20	79	340	20:50	20	1.000	A BB	88630 59554	10.000 UG/KG	0.22
21	43	319	16:13	1	1.399	A VB	605379	66.661 UG/KG	1.48
22	127	325	16:31	1	1.425	A BB	97827	57.847 UG/KG	1.29
23	65	355	18:03	1	1.557	A BV	113699	60.758 UG/KG	1.35
24	75	359	18:15	1	1.575	A BV	745638	59.911 UG/KG	1.33
25	130	370	18:48	1	1.623	A BV	654189	58.301 UG/KG	1.30
26	78	382	19:25	1	1.675	A BV	1170110	58.921 UG/KG	1.31
27	97	384	19:31	1	1.684	A VB	522213	59.360 UG/KG	1.33
28	75	384	19:31	1	1.684	A BB	396106	59.681 UG/KG	1.33
29	127	381	19:22	1	1.671	A BB	796284	57.786 UG/KG	1.29
30	63	406	20:38	1	1.781	A BB	454627	162.899 UG/KG	3.63
31	173	434	22:04	1	1.904	A BV	887294	58.667 UG/KG	1.31
32	58	447	22:43	1	1.961	A BB	239920	96.755 UG/KG	2.15
33	55	490	24:54	33	1.000	A VB	88630 96421	10.000 UG/KG	0.22
34	58	477	24:15	1	2.092	A BB	193835	97.345 UG/KG	2.17
35	83	481	24:27	1	2.110	A BB	904220	61.038 UG/KG	1.36
36	164	483	24:33	1	2.110	A BV	684392	58.533 UG/KG	1.30
37	92	515	26:11	1	2.259	A BB	846303	61.527 UG/KG	1.37
38	112	544	27:39	1	2.386	A BB	1248110	61.382 UG/KG	1.37
39	106	607	30:51	1	2.662	A BB	602754	61.300 UG/KG	1.36
40	104	747	37:58	1	3.276	A BB	1291930	62.738 UG/KG	1.40
41	106	791	40:13	1	3.469	A BB	804408	62.283 UG/KG	1.39
42	65	282	14:20	1	1.237	A BV	106096	10.685 UG/KG	0.24
43	100	510	25:55	1	2.337	A BB	160276	11.525 UG/KG	0.26
44	176	690	35:04	1	3.026	A*BB	191655	10.982 UG/KG	0.24

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	11:12	1.03	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:45	0.98	0.235	0.99	56.92	60.00	0.410	0.432	0.95
3	4:25	0.99	0.378	1.00	62.81	60.00	1.773	1.694	1.05
4	5:23	0.98	0.461	0.99	62.27	60.00	1.772	1.708	1.04
5	6:36	0.98	0.565	0.99	61.78	60.00	0.323	0.313	1.03
6	8:42	0.99	0.743	1.00	64.73	60.00	0.732	0.679	1.08
7	9:15	0.99	0.791	1.00	492.03	449.98	0.063	0.058	1.09
8	9:15	0.99	0.791	1.00	606.54	599.98	0.075	0.074	1.01
9	9:52	0.99	0.843	1.00	628.44	599.98	0.185	0.176	1.05
10	10:44	0.99	0.917	1.00	64.04	60.00	1.702	1.595	1.07

88630

013823

005149

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:16	0.99	0.878	1.00	60.61	60.00	2.848	2.819	1.01
12	11:20	0.99	0.970	1.00	56.00	60.00	0.661	0.708	0.93
13	12:36	0.99	1.078	1.00	58.26	60.00	0.302	0.311	0.97
14	13:16	0.99	1.135	1.00	57.88	60.00	0.752	0.780	0.96
15	13:43	0.99	1.174	1.00	59.18	60.00	1.499	1.519	0.99
16	14:29	0.99	1.239	1.00	58.40	60.00	0.970	0.996	0.97
17	14:26	0.99	1.235	1.00	477.67	449.98	0.101	0.095	1.06
18	15:55	0.99	1.361	1.00	59.21	60.00	1.224	1.241	0.99
19	16:16	0.99	1.391	1.00	58.11	60.00	1.433	1.480	0.97
20	20:57	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:19	0.99	1.396	1.00	66.66	60.00	1.138	1.025	1.11
22	16:37	0.99	1.422	1.00	57.85	60.00	0.184	0.191	0.96
23	18:09	0.99	1.552	1.00	60.76	60.00	0.214	0.211	1.01
24	18:21	0.99	1.570	1.00	59.91	60.00	1.402	1.404	1.00
25	18:55	0.99	1.617	1.00	58.30	60.00	1.230	1.266	0.97
26	19:31	0.99	1.670	1.00	58.92	60.00	2.200	2.241	0.98
27	19:34	1.00	1.674	1.01	59.63	60.00	0.982	0.988	0.99
28	19:37	0.99	1.678	1.00	59.68	60.00	0.745	0.749	0.99
29	19:28	0.99	1.665	1.00	57.79	60.00	1.497	1.555	0.96
30	20:44	1.00	1.774	1.00	162.90	60.00	0.855	0.315	2.72
31	22:10	1.00	1.896	1.00	58.67	60.00	1.669	1.706	0.98
32	22:46	1.00	1.948	1.01	96.76	90.00	0.301	0.280	1.08
33	24:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:21	1.00	2.083	1.00	97.35	90.00	0.243	0.225	1.08
35	24:33	1.00	2.100	1.00	61.04	60.00	1.701	1.672	1.02
36	24:39	1.00	2.109	1.00	58.53	60.00	1.287	1.319	0.98
37	26:14	1.00	2.243	1.01	61.53	60.00	1.591	1.552	1.03
38	27:45	1.00	2.374	1.01	61.38	60.00	2.347	2.294	1.02
39	30:57	1.00	2.648	1.01	61.30	60.00	1.133	1.109	1.02
40	38:01	1.00	3.252	1.01	62.74	60.00	2.430	2.323	1.05
41	40:19	1.00	3.448	1.01	62.28	60.00	1.513	1.457	1.04
42	14:26	0.99	1.235	1.00	10.69	10.00	1.197	1.120	1.07
43	26:02	1.00	2.226	1.00	11.53	10.00	1.808	1.569	1.15
44	35:11	1.00	3.009	1.01	10.98	10.00	2.162	1.969	1.10

013824

QUANTITATION REPORT FILE: GSB40203A1B

DATA: GSB40203A1B.TI

02/03/84 13:49:00

SAMPLE: 10 ML H2O + STD #1817 ON #18

SCANNED BY: #18 ANALYST: 633

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	201 ACRYLEIN
9	202 ACRYLONITRILE
10	230 TRICHLOROFLUOROMETHANE
11	254 CARBON DISULFIDE
12	216 1, 1-DICHLOROETHYLENE
13	214 1, 1-DICHLOROETHANE
14	226 TRANS-1, 2-DICHLOROETHYLENE
15	211 CHLOROFORM
16	215 1, 2-DICHLOROETHANE
17	253 2-BUTANONE
18	227 1, 1, 1-TRICHLOROETHANE
19	206 CARBON TETRACHLORIDE
20	* 2-BROMO-1-CHLOROPROPANE
()	257 VINYL ACETATE
22	212 BROMODICHLOROMETHANE
23	217 1, 2-DICHLOROPROPANE
24	250 TRANS-1, 3-DICHLOROPROPENE
25	229 TRICHLOROETHYLENE
26	203 BENZENE
27	228 1, 1, 2-TRICHLOROETHANE
28	218 CIS-1, 3-DICHLOROPROPENE
29	208 DIBROMOCHLOROMETHANE
30	210 2-CHLOROETHYL VINYL ETHER
31	205 BROMOFORM
32	256 4-METHYL-2-PENTANONE
33	* DICHLOROBUTANE
34	255 2-HEXANONE
35	223 1, 1, 2, 2-TETRACHLOROETHANE
36	224 TETRACHLOROETHENE
37	225 TOLUENE
38	207 CHLOROBENZENE
39	219 ETHYLBENZENE
40	251 STYRENE
41	239 O-XYLENE
42	* D4-1, 2-DICHLOROETHANE
43	* D8-TOLUENE
44	* BROMOFLUOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT
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ZTOT
013825

003151

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	228	11:35	1	1.000	A BB	88630.	10.000 UG/KG	0.23
2	50	53	2:42	1	0.232	A BV	217835.	59.998 UG/KG	1.41
3	94	86	4:22	1	0.377	A BB	942898.	59.998 UG/KG	1.41
4	62	104	5:17	1	0.456	A BV	942532.	59.998 UG/KG	1.41
5	64	128	6:30	1	0.561	A BV	171569.	59.998 UG/KG	1.41
6	84	169	8:35	1	0.741	A BB	389412.	59.998 UG/KG	1.41
7	58	180	9:09	1	0.789	A VV	251357.	449.979 UG/KG	10.56
8	55	180	9:09	1	0.789	A BV	399622.	599.980 UG/KG	14.08
9	53	192	9:46	1	0.842	A BB	981179.	599.980 UG/KG	14.08
10	101	209	10:37	1	0.917	A BV	905043.	59.998 UG/KG	1.41
11	76	200	10:10	1	0.877	A BB	1514520.	59.998 UG/KG	1.41
12	96	221	11:14	1	0.969	A BB	351500.	59.998 UG/KG	1.41
13	65	245	12:27	1	1.075	A BB	160563.	59.998 UG/KG	1.41
14	96	259	13:10	1	1.136	A B9	399921.	59.998 UG/KG	1.41
15	83	268	13:37	1	1.175	A BV	796939.	59.998 UG/KG	1.41
16	62	283	14:23	1	1.241	A BV	515717.	59.998 UG/KG	1.41
17	72	282	14:20	1	1.237	A BV	403922.	449.980 UG/KG	10.56
18	97	311	15:49	1	1.364	A BV	651118.	59.998 UG/KG	1.41
19	117	318	16:10	1	1.395	A VB	762147.	59.998 UG/KG	1.41
20	79	410	20:50	20	1.000	A BB	59551.	10.000 UG/KG	0.23
21	43	319	16:13	1	1.399	A VB	605379.	59.998 UG/KG	1.41
22	127	325	16:31	1	1.425	A BB	97827.	59.998 UG/KG	1.41
23	65	355	18:03	1	1.557	A BV	113699.	59.998 UG/KG	1.41
24	75	359	18:15	1	1.575	A BV	745638.	59.998 UG/KG	1.41
25	130	370	18:48	1	1.623	A BV	654189.	59.998 UG/KG	1.41
26	78	382	19:25	1	1.675	A BV	1170110.	59.998 UG/KG	1.41
27	97	384	19:31	1	1.684	A VB	522213.	59.998 UG/KG	1.41
28	75	384	19:31	1	1.684	A BB	396106.	59.998 UG/KG	1.41
29	127	381	19:22	1	1.671	A BB	796284.	59.998 UG/KG	1.41
30	63	406	20:38	1	1.781	A BB	454627.	59.998 UG/KG	1.41
31	173	434	22:04	1	1.904	A BV	887294.	59.998 UG/KG	1.41
32	58	447	22:43	1	1.961	A BB	239920.	89.999 UG/KG	2.11
33	55	490	24:54	33	1.000	A VB	96421.	10.000 UG/KG	0.23
34	58	477	24:15	1	2.092	A BB	193835.	89.999 UG/KG	2.11
35	83	481	24:27	1	2.110	A BB	904270.	59.998 UG/KG	1.41
36	164	483	24:33	1	2.110	A BV	684392.	59.998 UG/KG	1.41
37	92	515	26:11	1	2.259	A BB	846303.	59.998 UG/KG	1.41
38	112	544	27:39	1	2.386	A BB	1248110.	59.998 UG/KG	1.41
39	106	607	30:51	1	2.662	A BB	602754.	59.998 UG/KG	1.41
40	104	747	37:58	1	3.276	A BB	1291930.	59.998 UG/KG	1.41
41	106	791	40:13	1	3.469	A BB	804408.	59.998 UG/KG	1.41
42	65	282	14:20	1	1.237	A BV	106096.	10.000 UG/KG	0.23
43	100	510	25:55	1	2.237	A BB	160276.	10.000 UG/KG	0.23
44	175	690	35:04	1	3.025	A*BB	191655.	10.000 UG/KG	0.23

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	11:35	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:42	1.00	0.232	1.00	60.00	60.00	0.410	0.410	1.00
3	4:22	1.00	0.377	1.00	60.00	60.00	1.773	1.773	1.00
4	5:17	1.00	0.456	1.00	60.00	60.00	1.772	1.772	1.00
5	6:30	1.00	0.561	1.00	60.00	60.00	0.323	0.323	1.00
6	8:35	1.00	0.741	1.00	60.00	60.00	0.732	0.732	1.00
7	9:09	1.00	0.789	1.00	449.98	449.98	0.063	0.063	1.00
8	9:09	1.00	0.789	1.00	599.98	599.98	0.075	0.075	1.00
9	9:46	1.00	0.842	1.00	599.98	599.98	0.185	0.185	1.00
10	10:37	1.00	0.917	1.00	60.00	60.00	1.702	1.702	1.00

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NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:10	1.00	0.877	1.00	60.00	60.00	2.848	2.848	1.00
12	11:14	1.00	0.969	1.00	60.00	60.00	0.661	0.661	1.00
13	12:27	1.00	1.075	1.00	60.00	60.00	0.302	0.302	1.00
14	13:10	1.00	1.136	1.00	60.00	60.00	0.752	0.752	1.00
15	13:37	1.00	1.175	1.00	60.00	60.00	1.497	1.497	1.00
16	14:23	1.00	1.241	1.00	60.00	60.00	0.970	0.970	1.00
17	14:20	1.00	1.237	1.00	447.98	447.98	0.101	0.101	1.00
18	15:49	1.00	1.364	1.00	60.00	60.00	1.224	1.224	1.00
19	16:10	1.00	1.395	1.00	60.00	60.00	1.433	1.433	1.00
20	20:50	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:13	1.00	1.399	1.00	60.00	60.00	1.138	1.138	1.00
22	16:31	1.00	1.425	1.00	60.00	60.00	0.184	0.184	1.00
23	18:03	1.00	1.557	1.00	60.00	60.00	0.214	0.214	1.00
24	18:15	1.00	1.575	1.00	60.00	60.00	1.402	1.402	1.00
25	18:46	1.00	1.623	1.00	60.00	60.00	1.230	1.230	1.00
26	19:25	1.00	1.675	1.00	60.00	60.00	2.200	2.200	1.00
27	19:31	1.00	1.684	1.00	60.00	60.00	0.982	0.982	1.00
28	19:31	1.00	1.684	1.00	60.00	60.00	0.745	0.745	1.00
29	19:22	1.00	1.671	1.00	60.00	60.00	1.497	1.497	1.00
30	20:38	1.00	1.781	1.00	60.00	60.00	0.855	0.855	1.00
31	22:04	1.00	1.904	1.00	60.00	60.00	1.669	1.669	1.00
32	22:43	1.00	1.961	1.00	90.00	90.00	0.301	0.301	1.00
33	24:54	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:15	1.00	2.092	1.00	90.00	90.00	0.243	0.243	1.00
35	24:27	1.00	2.110	1.00	60.00	60.00	1.701	1.701	1.00
36	24:33	1.00	2.118	1.00	60.00	60.00	1.287	1.287	1.00
37	26:11	1.00	2.259	1.00	60.00	60.00	1.591	1.591	1.00
38	27:39	1.00	2.386	1.00	60.00	60.00	2.347	2.347	1.00
39	30:51	1.00	2.662	1.00	60.00	60.00	1.133	1.133	1.00
40	37:58	1.00	3.276	1.00	60.00	60.00	2.430	2.430	1.00
41	40:13	1.00	3.469	1.00	60.00	60.00	1.513	1.513	1.00
42	14:20	1.00	1.237	1.00	10.00	10.00	1.197	1.197	1.00
43	25:55	1.00	2.237	1.00	10.00	10.00	1.808	1.808	1.00
44	35:04	1.00	3.026	1.00	10.00	10.00	2.162	2.162	1.00

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2333

**Mead ComputChem
GC/MS Analysis Log**

Press Hard, Multiple Copies

Initial Time of Run 10:55 Shift
 Date 20:55
 Time Turn Elapse 20:55 Anal
82
82

File Name	Used	NOT Used	Amount Injected	Operator	Tape No.	Disc. No.	
1 BFC40203A1R			2.0	633		189	10539
2 GB640203A1R			10ml	633		189	10941, 10936
3 GCG40203A1R			10ml	633		189	82
4 BGG40203A1R			10ml	633		189	10935
5 GDS40203A1R							10941, 10935
6 GSE40203A1R							Std #1811
7 GHO19523A1R							
8 GHO19523A1R							
9 GHOBLANKA1R							Port: OVEN
10 GRO17723A1R			BAKED	TKP	8 COPY/MIN	189	10936, 10941
11			20ml	584		189	
12 GEFY0203A1R			BAKED	1/2	hour	189	10936, 10941
13			20ml	584		189	
14 GEFY0203A1R			20ml	584		189	10936, 10941
15 CGF40203A1R							
16							
17							
18							
19							
20							

23184
 23184
 23184

**Mead ComputChem
GC/MS Analysis Log**

Initial Time of Tune 12:55
Time Tune Expires 10:55

20:55

Shuttle (A) (B) (C)
Date 7/3/87
Analysis Type RSE

Press Hard, Multiple Copies

Used	Not Used	Amount injected	Operator	Tape No.	Disc. No.	COMMENTS
		20	633		189	10939
		10ml	633		189	10941, 10936 mech = 45
		10ml	633		189	mech = 5.4
		10ml	633		189	10935 three blanks
						10941, 10936 mech = 5.8 std #1811
						part-OVEN was left open SAT
		BAKED 20ml	TAP	8 COLUMN	189	10936, 10941 1/4 dupe
		BAKED 20ml	1/2	hov.	189	10936, 10941 very dirty.
		20ml	SV		189	10936, 10941 still Mech. -
		20ml	SV		189	10936, 10941 still Mech. -

9333
R3522

0138

Circle correct code number: 237 (liquids) or 238 (solids) **REAU LABORATORY**
 Instrument Procedure Code 237 DATE 1/30/84 OPERATOR L. J. T.
 INITIAL MULTIPoint CALIBRATION

DATE RECEIVED: 00-01-0702
 CALIBRATION CHECK DATE 2/13/84
 Standard File Name CS49020301E
 Operator L. J. T.
 NF @ 20 mg 0.30

COMPOUND NAME	AUTOID NO.	SPCC/CCC	20 NF	40 NF	60 NF	75 NF	RTY		
Chloroform	2	SPCC	0.195	0.505	0.709	0.553		0.409	03
Vinyl chloride	4	CCC	2.110	1.777	2.201	2.096		4.794	14
1,1-Dichloroethane	12	CCC	0.665	0.673	0.690	0.794		0.661	18
1,1-Dichloroethane	13	SPCC	0.435	0.251	0.371	0.377		0.302	9.9
Chloroform	15	CCC	1.877	1.377	1.726	1.663		1.499	11
1,2-Dichloropropane	23	CCC	0.271	0.175	0.255	0.251		0.214	
2-Chloroethylvinylether	30	SPCC	0.434	0.239	0.323	0.348		0.585	
Bromoform	31	SPCC	1.491	1.204	1.472	1.374		1.703	
1,1,2,2-Tetrachloroethane	35	SPCC	1.805	1.371	1.773	1.651		1.703	
Toluene	37	CCC	1.774	1.319	1.614	1.574		1.591	0.19
Chlorobenzene	38	SPCC	2.470	1.906	2.217	2.204		2.347	

All RTY of each compound in the standard, including SPCC and CCC, must be within 0.8 - 1.20

RF = Average Response Factor; must be above 0.30 for each SPCC
 SPCC = System Performance Check Compounds in Multipoint Calibration and Calibration Check
 CCC = Calibration Check Compounds; criteria must be met before analysis of samples
 SD = Percent Standard Deviance; all SD must be less than 20%, calculated as $SD = \frac{RF - NF \times 105.8}{NF}$ 4 1984

POSTED

005156

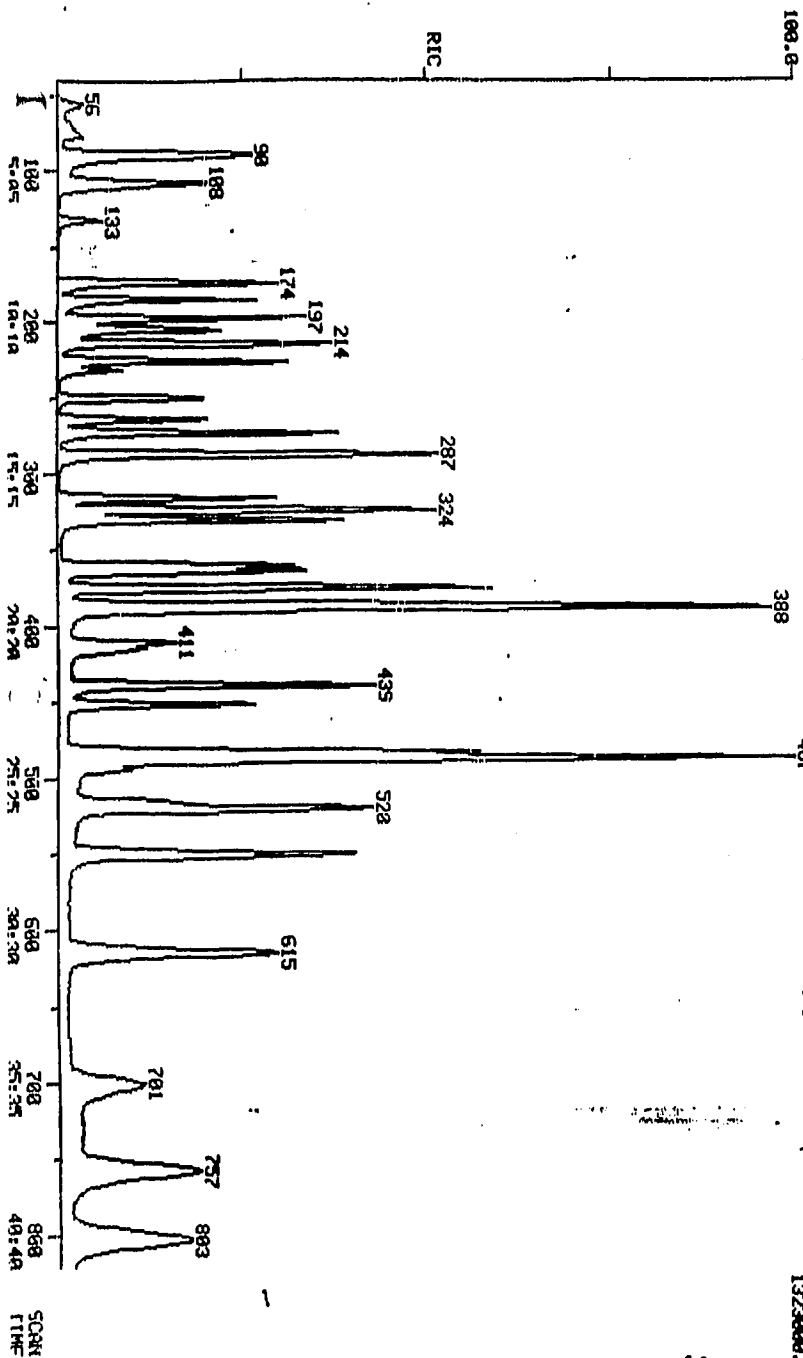
RIC
82/13/84 11:39:08
SAMPLE: 10 ML H2O + STD #1817 ON #18

HEAD COMPUTER DATA: 05840213A18

SCANS 40 TO 820

1323888

013831
005187



PROCEDURE: RK
 DATA FILE: C8840213A18
 REFERENCE: V238
 METHOD: V238
 REPORT: V238S1

DIAGNOSTIC REPORT

2/13/84 12:26:28

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

STANDARDS <> PLUS UNKNOWN <> LIST NAMES <>
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 3 2 1 0 44 38 1 57 V238S1/V238U1

44 COMPOUNDS PROCESSED, 38 FOUND

NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	P5	1	-231	232	232	.	1	958	.	130	232	.	1
2	P6	1	-413	414	.	.	.	.	.	79	413	.	1
3	P7	1	-493	494	494	.	1	991	.	55	494	.	1
4	P5	2	-55	55	56	1	1	991	.	50	56	.	1
5	P5	3	-89	89	90	1	1	952	.	94	90	.	1
6	P5	4	-108	108	108	.	1	981	.	62	108	.	1
7	P5	5	-132	133	133	.	1	989	.	64	133	.	1
8	P5	6	-173	174	174	.	1	976	.	84	174	.	1
9	P5	7	-184	185	185	.	1	958	.	58	185	.	1
10	P5	8	-184	185	.	.	.	.	.	56	185	.	1
11	P5	9	-196	197	197	.	1	995	.	53	197	.	1
12	P5	10	-213	214	214	.	1	985	.	101	214	.	1
13	P5	11	-204	205	205	.	1	990	.	76	205	.	1
14	P5	12	-225	226	226	.	1	974	.	96	226	.	1
15	P5	13	-249	250	250	.	1	991	.	65	250	.	1
16	P5	14	-263	264	264	.	1	981	.	96	264	.	1
17	P5	15	-272	273	273	.	1	969	.	83	273	.	1
18	P5	16	-287	288	288	.	1	958	.	62	288	.	1
19	P5	17	-286	287	287	.	1	978	.	72	287	.	1
20	P5	18	-314	315	316	1	1	981	.	97	316	.	1
21	P5	19	-322	323	324	1	1	988	.	117	324	.	1
22	P6	2	-323	324	324	.	1	960	.	43	324	.	1
23	P6	3	-329	330	330	.	1	987	.	127	330	.	1
24	P6	4	-358	360	360	.	1	983	.	65	360	.	1
25	P6	5	-362	364	364	.	1	981	.	75	364	.	1
26	P6	6	-373	375	375	.	1	976	.	130	375	.	1
27	P6	7	-386	388	387	-1	1	991	.	78	387	.	1
28	P6	8	-387	389	388	-1	1	993	.	97	388	.	1
29	P6	9	-387	389	.	.	.	.	.	75	389	.	1
30	P6	10	-384	386	.	.	.	.	.	127	385	.	1
31	P6	11	-409	411	411	.	1	978	.	63	411	.	1
32	P6	12	-438	440	439	-1	1	966	.	173	439	.	1
33	P6	13	-450	452	452	.	1	990	.	58	452	.	1
34	P7	2	-481	483	482	-1	1	983	.	58	482	.	1
35	P7	3	-484	486	.	.	.	.	.	83	486	.	1
36	P7	4	-486	488	488	.	1	956	.	164	488	.	1
37	P7	5	-518	520	520	.	1	980	.	92	520	.	1
38	P7	6	-548	550	550	.	1	964	.	112	550	.	1
39	P7	7	-612	615	615	.	1	981	.	106	615	.	1
40	P7	8	-753	756	757	1	1	980	.	104	757	.	1
41	P7	9	-798	802	803	1	1	986	.	106	802	-1	1
42	P8	2	-285	286	65	287	.	1
43	P8	3	-514	516	516	.	1	978	.	100	516	.	1
44	P8	4	-697	700	701	1	1	989	.	176	699	.	2

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005158

QUANTITATION REPORT FILE: 06840213A18

DATA: 06840213A18.TI

12/13/84 11:39:00

SAMPLE: 10 ML H2O + STD #1817 ON #18

SUBMITTED BY: #18

ANALYST: 633

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

- NO NAME
- 1 * BROMOCHLOROMETHANE (IS)
- 2 221 CHLOROMETHANE
- 3 220 BROMOMETHANE
- 4 231 VINYL CHLORIDE
- 5 209 CHLOROETHANE
- 6 222 METHYLENE CHLORIDE
- 7 252 ACETONE (2-PROPANONE)
- 8 201 ACROLEIN
- 9 202 ACRYLONITRILE
- 10 230 TRICHLOROFLUOROMETHANE
- 11 254 CARBON DISULFIDE
- 12 216 1, 1-DICHLOROETHYLENE
- 13 214 1, 1-DICHLOROETHANE
- 14 226 TRANS-1, 2-DICHLOROETHYLENE
- 15 211 CHLOROFORM
- 16 215 1, 2-DICHLOROETHANE
- 17 253 2-BUTANONE
- 18 227 1, 1, 1-TRICHLOROETHANE
- 19 206 CARBON TETRACHLORIDE
- 20 * 2-BROMO-1-CHLOROPROPANE
- 21 257 VINYL ACETATE
- 22 212 BROMODICHLOROMETHANE
- 23 217 1, 2-DICHLOROPROPANE
- 24 250 TRANS-1, 3-DICHLOROPROPENE
- 25 229 TRICHLOROETHYLENE
- 26 203 BENZENE
- 27 228 1, 1, 2-TRICHLOROETHANE
- 28 218 CIS-1, 3-DICHLOROPROPENE
- 29 208 DIBROMOCHLOROMETHANE
- 30 210 2-CHLOROETHYL VINYL ETHER
- 31 205 BROMOFORM
- 32 256 4-METHYL-2-PENTANONE
- 33 * DICHLOROBUTANE
- 34 255 2-HEXANONE
- 35 223 1, 1, 2, 2-TETRACHLOROETHANE
- 36 224 TETRACHLOROETHENE
- 37 225 TOLUENE
- 38 207 CHLOROENZENE
- 39 219 ETHYLBENZENE
- 40 251 STYRENE
- 41 239 O-XYLENE
- 42 * D4-1, 2-DICHLOROETHANE
- 43 * D8-TOLUENE
- 44 * BROMOFLUOROBENZENE

M/E SCAN TIME REF RRT METH AREA(HGHT) AMOUNT XTOT

29 013833

8/22/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	232	11:48	1	1.000	A BB	97105.	10.000 UG/KG	0.38
2	50	56	2:51	1	0.241	A BV	145880.	32.059 UG/KG	1.21
3	94	90	4:34	1	0.388	A BB	703547.	34.622 UG/KG	1.31
4	62	108	5:29	1	0.466	A BV	663176.	32.475 UG/KG	1.22
5	64	133	6:46	1	0.573	A BB	134892.	35.153 UG/KG	1.33
6	84	174	8:51	1	0.750	A BB	386131.	38.501 UG/KG	1.45
7	58	185	9:24	1	0.797	A BV	159540.	267.381 UG/KG	10.08
8	56	185	9:24	1	0.797	A BV	216116.	405.214 UG/KG	15.27
9	53	197	10:01	1	0.849	A BB	626750.	366.868 UG/KG	13.83
10	101	214	10:53	1	0.922	A BV	674425.	36.182 UG/KG	1.36
11	76	205	10:25	1	0.884	A BB	919654.	35.324 UG/KG	1.33
12	96	226	11:29	1	0.974	A BV	320585.	37.698 UG/KG	1.42
13	65	250	12:42	1	1.078	A BV	128786.	36.499 UG/KG	1.38
14	96	264	13:25	1	1.138	A BV	236410.	37.519 UG/KG	1.41
15	83	273	13:53	1	1.177	A BB	615991.	37.405 UG/KG	1.41
16	62	288	14:38	1	1.241	A BB	317445.	37.376 UG/KG	1.41
17	72	287	14:35	1	1.237	A BV	290875.	264.371 UG/KG	9.97
18	97	316	16:04	1	1.362	A BV	415273.	38.393 UG/KG	1.45
19	117	324	16:28	1	1.397	A VB	579873.	38.549 UG/KG	1.45
20	79	415	21:06	20	1.000	A BB	515394105	10.000 UG/KG	0.38
21	43	324	16:28	1	1.397	A BV	327097.	37.710 UG/KG	1.42
22	127	330	16:46	1	1.422	A BB	65897.	38.358 UG/KG	1.45
23	65	360	18:18	1	1.552	A BV	86480.	37.494 UG/KG	1.41
24	75	364	18:30	1	1.569	A BB	463176.	36.827 UG/KG	1.39
25	130	375	19:04	1	1.616	A BV	516646.	38.430 UG/KG	1.45
26	78	387	19:40	1	1.668	A BV	719999.	37.711 UG/KG	1.42
27	97	388	19:43	1	1.672	A VB	377470.	37.806 UG/KG	1.43
28	75	389	19:46	1	1.677	A BB	243846.	37.294 UG/KG	1.41
29	127	385	19:34	1	1.659	A BV	562221.	38.209 UG/KG	1.44
30	63	411	20:54	1	1.772	A BB	153953.	38.067 UG/KG	1.43
31	173	439	22:19	1	1.892	A BB	570146.	37.458 UG/KG	1.41
32	58	452	22:59	1	1.948	A BB	168454.	56.287 UG/KG	2.12
33	55	474	25:07	33	1.000	A VB	10756599105	10.000 UG/KG	0.38
34	58	482	24:30	1	2.078	A BB	512453.	54.407 UG/KG	2.05
35	83	486	24:42	1	2.095	A BV	647532.	37.586 UG/KG	1.42
36	164	488	24:48	1	2.103	A BB	548249.	38.996 UG/KG	1.47
37	92	520	26:26	1	2.241	A BV	565951.	37.923 UG/KG	1.43
38	112	550	27:57	1	2.371	A BB	977277.	37.322 UG/KG	1.41
39	106	615	31:16	1	2.651	A BB	405633.	37.257 UG/KG	1.40
40	104	757	38:29	1	3.263	A BB	816157.	35.264 UG/KG	1.33
41	106	802	40:46	1	3.457	A BB	490632.	34.532 UG/KG	1.30
42	65	287	14:35	1	1.237	A BB	97044.	8.823 UG/KG	0.33
43	100	516	26:14	1	2.224	A BV	172705.	8.745 UG/KG	0.33
44	176	699	35:32	1	3.013	A*BB	231799.	8.738 UG/KG	0.33

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	11:48	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:54	0.98	0.246	0.98	32.06	40.00	0.376	0.467	0.88
3	4:34	1.00	0.388	1.00	34.62	40.00	1.811	2.093	0.87
4	5:32	0.99	0.470	0.99	32.48	40.00	1.787	2.103	0.81
5	6:46	1.00	0.573	1.00	35.15	40.00	0.347	0.395	0.88
6	8:48	1.01	0.746	1.01	38.50	40.00	0.994	1.033	0.96
7	9:24	1.00	0.797	1.00	267.38	299.98	0.855	0.861	0.89
8	9:24	1.00	0.797	1.00	405.21	399.98	0.856	0.855	1.01
9	10:01	1.00	0.849	1.00	366.87	399.98	0.161	0.176	0.92
0	10:53	1.00	0.922	1.00	36.18	40.00	1.788	1.976	0.90

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NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:22	1.00	0.879	1.00	35.32	40.00	2.368	2.681	0.88
12	11:26	1.00	0.970	1.00	37.70	40.00	0.825	0.876	0.94
13	12:42	1.00	1.078	1.00	36.50	40.00	0.332	0.363	0.91
14	13:22	1.00	1.134	1.00	37.52	40.00	0.609	0.649	0.94
15	13:50	1.00	1.172	1.00	37.41	40.00	1.586	1.696	0.94
16	14:35	1.00	1.237	1.00	37.38	40.00	0.817	0.875	0.93
17	14:32	1.00	1.233	1.00	264.37	299.98	0.100	0.113	0.88
18	16:01	1.00	1.358	1.00	38.39	40.00	1.069	1.114	0.96
19	16:25	1.00	1.392	1.00	38.55	40.00	1.493	1.549	0.96
20	21:03	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:25	1.00	1.392	1.00	37.71	40.00	0.842	0.893	0.94
22	16:43	1.00	1.418	1.00	38.36	40.00	0.170	0.177	0.96
23	18:15	1.00	1.547	1.00	37.49	40.00	0.223	0.238	0.94
24	18:27	1.00	1.565	1.00	36.83	40.00	1.192	1.295	0.92
25	19:01	1.00	1.612	1.00	38.43	40.00	1.330	1.384	0.96
26	19:37	1.00	1.664	1.00	37.71	40.00	1.854	1.966	0.94
27	19:40	1.00	1.668	1.00	37.81	40.00	0.972	1.028	0.95
28	19:43	1.00	1.672	1.00	37.29	40.00	0.628	0.673	0.93
29	19:34	1.00	1.659	1.00	38.21	40.00	1.448	1.515	0.96
30	20:50	1.00	1.767	1.00	38.07	40.00	0.396	0.416	0.95
31	22:16	1.00	1.888	1.00	37.46	40.00	1.468	1.567	0.94
32	22:56	1.00	1.944	1.00	56.29	60.00	0.289	0.308	0.94
33	25:07	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:27	1.00	2.073	1.00	54.41	60.00	0.880	0.970	0.91
35	24:39	1.00	2.091	1.00	37.59	40.00	1.667	1.774	0.94
36	24:45	1.00	2.099	1.00	39.00	40.00	1.412	1.448	0.97
37	26:23	1.00	2.237	1.00	37.92	40.00	1.457	1.537	0.95
38	27:54	1.00	2.346	1.00	37.32	40.00	2.516	2.697	0.93
	31:10	1.00	2.642	1.00	37.26	40.00	1.044	1.121	0.93
40	38:26	1.00	3.259	1.00	35.26	40.00	2.101	2.383	0.88
41	40:43	1.00	3.453	1.00	34.53	40.00	1.263	1.463	0.86
42	14:32	1.00	1.233	1.00	8.82	10.00	0.999	1.133	0.88
43	26:11	1.00	2.220	1.00	8.75	10.00	1.779	2.034	0.87
44	35:32	1.00	3.013	1.00	8.74	10.00	2.387	2.732	0.87

013835

003481

QUANTITATION REPORT FILE: GSB40213A1B

DATA: GSB40213A1B.TI

12/13/84 11:39:00

SAMPLE: 10 ML H2O + STD #1817 ON #18

SUBMITTED BY: #18 ANALYST: 633

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	201 ACROLEIN
9	202 ACRYLONITRILE
10	230 TRICHLOROFLUOROMETHANE
11	254 CARBON DISULFIDE
12	216 1, 1-DICHLOROETHYLENE
13	214 1, 1-DICHLOROETHANE
14	226 TRANS-1, 2-DICHLOROETHYLENE
15	211 CHLOROFORM
16	215 1, 2-DICHLOROETHANE
17	253 2-BUTANONE
18	227 1, 1, 1-TRICHLOROETHANE
19	206 CARBON TETRACHLORIDE
	* 2-BROMO-1-CHLOROPROPANE
21	257 VINYL ACETATE
22	212 BROMODICHLOROMETHANE
23	217 1, 2-DICHLOROPROPANE
24	250 TRANS-1, 3-DICHLOROPROPENE
25	229 TRICHLOROETHYLENE
26	203 BENZENE
27	228 1, 1, 2-TRICHLOROETHANE
28	218 CIS-1, 3-DICHLOROPROPENE
29	208 DIBROMOCHLOROMETHANE
30	210 2-CHLOROETHYL VINYL ETHER
31	205 BROMOFORM
32	256 4-METHYL-2-PENTANONE
33	* DICHLOROBUTANE
34	255 2-HEXANONE
35	223 1, 1, 2, 2-TETRACHLOROETHANE
36	224 TETRACHLOROETHENE
37	225 TOLUENE
38	207 CHLOROBENZENE
39	219 ETHYLBENZENE
40	251 STYRENE
41	239 O-XYLENE
42	* D4-1, 2-DICHLOROETHANE
43	* DB-TOLUENE
44	* BROMOFLUOROBENZENE

M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	ZTOT
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013836

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	232	11:48	1	1.000	A BB	97105.	10.000 UG/KG	0.35
	50	56	2:51	1	0.241	A BV	145880.	39.999 UG/KG	1.40
	94	90	4:34	1	0.388	A BB	703547.	39.999 UG/KG	1.40
4	62	108	5:29	1	0.466	A BV	663196.	39.999 UG/KG	1.40
5	64	133	6:46	1	0.573	A BB	134892.	39.999 UG/KG	1.40
6	84	174	8:51	1	0.750	A BB	386131.	39.999 UG/KG	1.40
7	58	185	9:24	1	0.797	A BV	159540.	299.984 UG/KG	10.49
8	56	185	9:24	1	0.797	A BV	216116.	399.984 UG/KG	13.99
9	53	197	10:01	1	0.849	A BB	626950.	399.984 UG/KG	13.99
10	101	214	10:53	1	0.922	A BV	694423.	39.999 UG/KG	1.40
11	76	205	10:25	1	0.894	A BB	919654.	39.999 UG/KG	1.40
12	96	226	11:29	1	0.974	A BV	320583.	39.999 UG/KG	1.40
13	65	250	12:42	1	1.078	A BV	128786.	39.999 UG/KG	1.40
14	96	264	13:25	1	1.138	A BV	236410.	39.999 UG/KG	1.40
15	83	273	13:53	1	1.177	A BB	615991.	39.999 UG/KG	1.40
16	62	288	14:38	1	1.241	A BB	317445.	39.999 UG/KG	1.40
17	72	287	14:35	1	1.237	A BV	298875.	299.985 UG/KG	10.49
18	97	316	16:04	1	1.362	A BV	415273.	39.999 UG/KG	1.40
19	117	324	16:28	1	1.397	A VB	579873.	39.999 UG/KG	1.40
20	79	415	21:06	20	1.000	A BB	51523.	10.000 UG/KG	0.35
21	43	324	16:28	1	1.397	A BV	327097.	39.999 UG/KG	1.40
22	127	330	16:46	1	1.422	A BB	65897.	39.999 UG/KG	1.40
23	65	360	18:18	1	1.552	A BV	86480.	39.999 UG/KG	1.40
24	75	364	18:30	1	1.569	A BB	463176.	39.999 UG/KG	1.40
25	130	375	19:04	1	1.616	A BV	516646.	39.999 UG/KG	1.40
26	78	387	19:40	1	1.668	A BV	719999.	39.999 UG/KG	1.40
27	97	388	19:43	1	1.672	A VB	377470.	39.999 UG/KG	1.40
	75	389	19:46	1	1.677	A BB	243846.	39.999 UG/KG	1.40
	127	385	19:34	1	1.659	A BV	562221.	39.999 UG/KG	1.40
30	63	411	20:54	1	1.772	A BB	153953.	39.999 UG/KG	1.40
31	173	439	22:19	1	1.892	A BB	570146.	39.999 UG/KG	1.40
32	58	452	22:59	1	1.948	A BB	168454.	59.999 UG/KG	2.10
33	55	494	25:07	33	1.000	A VB	107565.	10.000 UG/KG	0.35
34	58	482	24:30	1	2.078	A BB	512453.	59.999 UG/KG	2.10
35	83	486	24:42	1	2.095	A BV	647532.	39.999 UG/KG	1.40
36	164	488	24:48	1	2.103	A BB	548249.	39.999 UG/KG	1.40
37	92	520	26:26	1	2.241	A BV	565951.	39.999 UG/KG	1.40
38	112	550	27:37	1	2.371	A BB	977277.	39.999 UG/KG	1.40
39	106	615	31:16	1	2.651	A BB	405633.	39.999 UG/KG	1.40
40	104	757	38:29	1	3.263	A BB	816157.	39.999 UG/KG	1.40
41	106	802	40:46	1	3.457	A BB	490632.	39.999 UG/KG	1.40
42	65	287	14:35	1	1.237	A BB	97044.	10.000 UG/KG	0.35
43	100	516	26:14	1	2.224	A BV	172705.	10.000 UG/KG	0.35
44	176	699	35:32	1	3.013	A*BB	231799.	10.000 UG/KG	0.35

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	:RATIO
1	11:48	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:51	1.00	0.241	1.00	40.00	40.00	0.376	0.376	1.00
3	4:34	1.00	0.388	1.00	40.00	40.00	1.811	1.811	1.00
4	5:29	1.00	0.466	1.00	40.00	40.00	1.707	1.707	1.00
5	6:46	1.00	0.573	1.00	40.00	40.00	0.347	0.347	1.00
6	8:51	1.00	0.750	1.00	40.00	40.00	0.994	0.994	1.00
7	9:24	1.00	0.797	1.00	299.98	299.98	0.055	0.055	1.00
8	9:24	1.00	0.797	1.00	399.98	399.98	0.056	0.056	1.00
	10:01	1.00	0.849	1.00	399.98	399.98	0.161	0.161	1.00
	10:53	1.00	0.922	1.00	40.00	40.00	1.788	1.788	1.00

013837

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:25	1.00	0.884	1.00	40.00	40.00	2.368	2.368	1.00
12	11:29	1.00	0.974	1.00	40.00	40.00	0.825	0.825	1.00
13	12:42	1.00	1.078	1.00	40.00	40.00	0.332	0.332	1.00
14	13:25	1.00	1.138	1.00	40.00	40.00	0.607	0.607	1.00
15	13:53	1.00	1.177	1.00	40.00	40.00	1.586	1.586	1.00
16	14:38	1.00	1.241	1.00	40.00	40.00	0.817	0.817	1.00
17	14:35	1.00	1.237	1.00	299.98	299.98	0.100	0.100	1.00
18	16:04	1.00	1.362	1.00	40.00	40.00	1.069	1.069	1.00
19	16:28	1.00	1.377	1.00	40.00	40.00	1.493	1.493	1.00
20	21:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:28	1.00	1.377	1.00	40.00	40.00	0.842	0.842	1.00
22	16:46	1.00	1.422	1.00	40.00	40.00	0.170	0.170	1.00
23	18:18	1.00	1.532	1.00	40.00	40.00	0.223	0.223	1.00
24	18:30	1.00	1.567	1.00	40.00	40.00	1.192	1.192	1.00
25	19:04	1.00	1.616	1.00	40.00	40.00	1.330	1.330	1.00
26	19:40	1.00	1.668	1.00	40.00	40.00	1.854	1.854	1.00
27	19:43	1.00	1.672	1.00	40.00	40.00	0.972	0.972	1.00
28	19:46	1.00	1.677	1.00	40.00	40.00	0.628	0.628	1.00
29	19:34	1.00	1.657	1.00	40.00	40.00	1.448	1.448	1.00
30	20:54	1.00	1.772	1.00	40.00	40.00	0.396	0.396	1.00
31	22:19	1.00	1.892	1.00	40.00	40.00	1.468	1.468	1.00
32	22:59	1.00	1.948	1.00	60.00	60.00	0.289	0.289	1.00
33	25:07	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:30	1.00	2.078	1.00	60.00	60.00	0.880	0.880	1.00
35	24:42	1.00	2.095	1.00	40.00	40.00	1.667	1.667	1.00
36	24:48	1.00	2.103	1.00	40.00	40.00	1.412	1.412	1.00
37	26:26	1.00	2.241	1.00	40.00	40.00	1.457	1.457	1.00
38	27:57	1.00	2.371	1.00	40.00	40.00	2.516	2.516	1.00
39	31:16	1.00	2.651	1.00	40.00	40.00	1.044	1.044	1.00
40	38:29	1.00	3.263	1.00	40.00	40.00	2.101	2.101	1.00
41	40:46	1.00	3.457	1.00	40.00	40.00	1.263	1.263	1.00
42	14:35	1.00	1.237	1.00	10.00	10.00	0.999	0.999	1.00
43	26:14	1.00	2.224	1.00	10.00	10.00	1.779	1.779	1.00
44	35:32	1.00	3.013	1.00	10.00	10.00	2.387	2.387	1.00

013838
005164

2933

**Head ComputChem
GC/MS Analysis Log**

Initial Time of Run 10:34
Time Time Elapse 17:34
0138

Run Log Press Here, Multiple Copies

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	BFF40213AIR			2ul	633		184	109F7
2	GBS40213AIR			10ul	633		184	10920, 1092P
3	GSS40213AIR			Done	633		184	Std #1017
4	GH020286AIR			10ul	633		184	
5	GH020509AIR							
6	GH020510AIR							
7	GH020284AIR							
8	GR020265AIR							
9	GR019561BIR			10ul	SR4		185	
10	GR019571BIR			10ul	SR4		185	10925, 109
11								
12								
13								
14								
15								
16								
17				2/19/84				
18				9115				
19								
20								

59

Circle correct code number: 237 (liquids) or 238 (solids)
 Instrument Procedure Code: 2177RS
 INITIAL METPOINT: CALIBRATION DATE: 2/7/73 OPERATOR: GCS
 HEAD OPERATOR: OWE 18

CALIBRATION CHECK
 Standard File Name: G3870315.BIL
 Operator: GCS
 Date: 2/18/73
 Operator: GCS

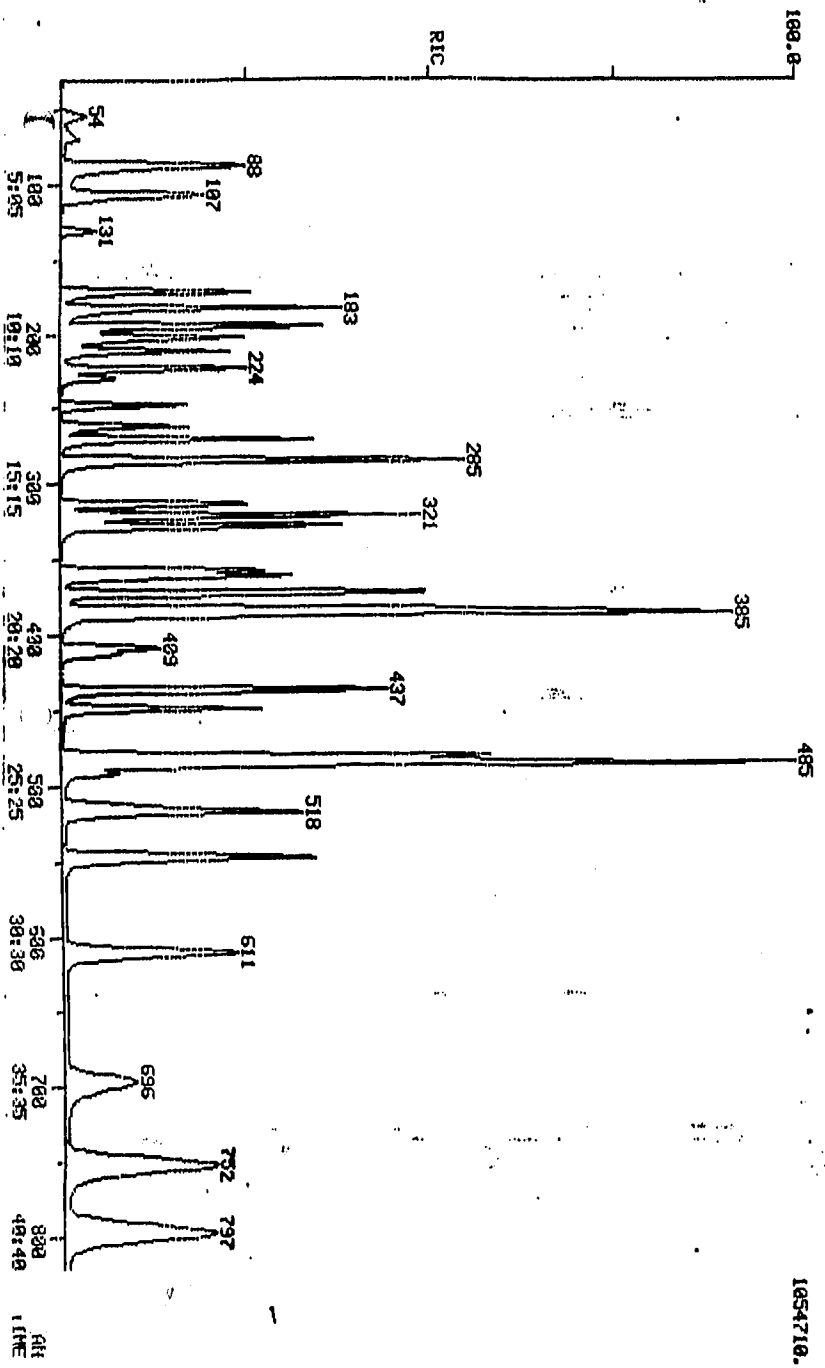
COMPOUND NAME	AUTOID NO.	SPEC/CCC	20 RF	40 RF	60 RF	RF	NET RF	RF	RF
Chloroform	2	SPEC	0.58	0.59	0.55		0.534	0.376	
Vinyl chloride	4	CCC	1.972	2.121	2.011		2.071	1.297	18
1,1-Dichloroethane	12	CCC	0.817	0.851	0.921		0.864	0.825	45
1,1-Dichloroethane	13	SPEC	0.353	0.377	0.401		0.374	0.332	
Chloroform	15	CCC	1.653	1.410	1.806		1.716	1.586	76
1,2-Dichloroethane	21	CCC	0.225	0.237	0.258		0.239	0.223	67
2-Chloroethylvinyl ether	30	SPEC	0.357	0.372	0.367		0.372	0.396	
Bromoform	31	SPEC	1.368	1.558	1.595		1.457	1.468	
1,1,2,2-Tetrachloroethane	35	SPEC	1.496	1.639	1.739		1.625	1.667	
Toluene	37	CCC	1.336	1.357	1.400		1.361	1.457	7.0
Chloroform	38	SPEC	0.351	0.313	0.271		0.294	0.512	

All net of each compound to the standard, including SPEC and CCC, must be within 0.8 - 1.20

RF - Average Response Factor; must be above 0.30 for each SPEC
 SPEC - System Performance Check Compounds in Multipoint Calibration and Calibration Check
 CCC - Calibration Check Compounds; criteria must be met before analysis of samples
 20 - Percent difference; all 20 must be less than 20%, calculated as

RF - RF - RF X 100%
 POSTED

005167
 013841



RIC
 02/18/84 11:21:08
 SAMPLER: 10 ML H2O + 5 UL (10985+10990) + MEDIUM LEVEL U238 STD 1817
 HEAD COMPUTER
 DATA: G5840210C18

SCANS 30 TO 820

1054710.

013842

PROCEDURE: RK
 DATA FILE: C8840210C18
 REFERENCE: V238
 METHOD: V238
 REPORT: V238S1

DIAGNOSTIC REPORT

2/10/84 2:09:13

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< --- STANDARDS --- > < --- PLUS UNKNOWN --- > < - LIST NAMES - >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 3 2 1 0 44 37 1 54 V238S1/V238U1

44 COMPOUNDS PROCESSED, 38 FOUND

COMPOUND		SEARCH					SAT		CHRO				
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	P5	1	-230	228						130	230		1
2	P6	1	-412	412	412		1	752		79	412		1
3	P7	1	-491	492	492		1	990		55	492		1
4	P5	2	-55	54	54		1	996		50	54		1
5	P5	3	-89	88	88		1	959		94	88		1
6	P5	4	-108	107	107		1	986		62	107		1
7	P5	5	-132	131	131		1	967		64	131		1
8	P5	6	-172	172	172		1	983		84	172		1
9	P5	7	-183	183	183		1	961		58	183		1
10	P5	8	-183	183						56	183		1
11	P5	9	-195	195	195		1	996		53	195		1
12	P5	10	-212	212	212		1	986		101	212		1
13	P5	11	-203	203	203		1	992		76	203		1
14	P5	12	-224	224	224		1	971		96	224		1
15	P5	13	-248	248	248		1	991		65	248		1
16	P5	14	-262	262	262		1	979		96	262		1
17	P5	15	-271	271	271		1	988		83	271		1
18	P5	16	-286	286	286		1	963		62	286		1
19	P5	17	-284	284	285	1	1	978		72	285		1
20	P5	18	-313	313	314	1	1	971		97	314		1
21	P5	19	-321	321	321		1	987		117	321		1
22	P6	2	-322	322	322		1	962		43	322		1
23	P6	3	-327	327	328	1	1	986		127	328		1
24	P6	4	-357	357	358	1	1	972		65	358		1
25	P6	5	-361	361	361		1	974		75	361		1
26	P6	6	-372	372	372		1	968		130	372		1
27	P6	7	-384	384	385	1	1	990		78	385		1
28	P6	8	-386	386	386		1	988		97	386		1
29	P6	9	-386	386						75	387		1
30	P6	10	-383	383	383		1	958		127	383		1
31	P6	11	-408	409	409		1	983		63	409		1
32	P6	12	-436	437	437		1	967		173	437		1
33	P6	13	-449	450	449	-1	1	996		58	449		1
34	P7	2	-479	480	480		1	977		58	480		1
35	P7	3	-483	484						83	484		1
36	P7	4	-485	486						164	485		1
37	P7	5	-517	518	518		1	977		92	518		1
38	P7	6	-546	547	548	1	1	967		112	547	-1	1
39	P7	7	-609	610	611	1	1	980		106	611		1
40	P7	8	-750	752	752		1	979		104	752		1
41	P7	9	-795	797	797		1	986		106	797		1
42	P8	2	-284	284						65	284		1
43	P8	3	-512	513	513		1	977		100	513		1
	P8	4	-694	696	695	-1	1	986		176	696	1	1

QUANTITATION REPORT FILE: GSB40210C1B

DATA: GSB40210C1B.TI

02/10/84 1:21:00

SAMPLE: 10 ML H2O + 5 UL (10985+10990) + MEDIUM LEVEL V238 STD 1817

SL.MITTED BY: 1B

ANALYST: 714

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

- | | |
|----|----------------------------------|
| NO | NAME |
| 1 | * BROMOCHLOROMETHANE (IS) |
| 2 | 221 CHLOROMETHANE |
| 3 | 220 BROMOMETHANE |
| 4 | 231 VINYL CHLORIDE |
| 5 | 209 CHLOROETHANE |
| 6 | 222 METHYLENE CHLORIDE |
| 7 | 252 ACETONE (2-PROPANONE) |
| 8 | 201 ACRYLEIN |
| 9 | 202 ACRYLONITRILE |
| 10 | 230 TRICHLOROFLUOROMETHANE |
| 11 | 254 CARBON DISULFIDE |
| 12 | 216 1, 1-DICHLOROETHYLENE |
| 13 | 214 1, 1-DICHLOROETHANE |
| 14 | 226 TRANS-1, 2-DICHLOROETHYLENE |
| 15 | 211 CHLOROFORM |
| 16 | 215 1, 2-DICHLOROETHANE |
| 17 | 253 2-BUTANONE |
| 18 | 227 1, 1, 1-TRICHLOROETHANE |
| 19 | 206 CARBON TETRACHLORIDE |
| | * 2-BROMO-1-CHLOROPROPANE |
| 20 | 257 VINYL ACETATE |
| 22 | 212 BROMODICHLOROMETHANE |
| 23 | 217 1, 2-DICHLOROPROPANE |
| 24 | 250 TRANS-1, 3-DICHLOROPROPENE |
| 25 | 229 TRICHLOROETHYLENE |
| 26 | 203 BENZENE |
| 27 | 228 1, 1, 2-TRICHLOROETHANE |
| 28 | 218 CIS-1, 3-DICHLOROPROPENE |
| 29 | 208 DIBROMOCHLOROMETHANE |
| 30 | 210 2-CHLOROETHYL VINYL ETHER |
| 31 | 205 BROMOFORM |
| 32 | 256 4-METHYL-2-PENTANONE |
| 33 | * DICHLOROBUTANE |
| 34 | 255 2-HEXANONE |
| 35 | 223 1, 1, 2, 2-TETRACHLOROETHANE |
| 36 | 224 TETRACHLOROETHENE |
| 37 | 225 TOLUENE |
| 38 | 207 CHLOROBENZENE |
| 39 | 219 ETHYLBENZENE |
| 40 | 251 STYRENE |
| 41 | 239 O-XYLENE |
| 42 | * D4-1, 2-DICHLOROETHANE |
| 43 | * D8-TOLUENE |
| 44 | * BROMOFLUOROBENZENE |

met
1826

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
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013844

005170

29

SAH 2/10/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	230	11:41	1	1.000	A BB	66382.	10.000 UG/KG	0.28
2	50	54	2:45	1	0.235	A BV	113227.	40.610 UG/KG	1.12
	94	88	4:28	1	0.983	A BB	486554.	41.081 UG/KG	1.13
4	62	107	5:26	1	0.465	A BB	470179.	39.419 UG/KG	1.09
5	64	131	6:40	1	0.570	A BV	77389.	39.048 UG/KG	1.08
6	84	172	8:45	1	0.748	A BV	243527.	38.808 UG/KG	1.07
7	58	183	9:18	1	0.796	A VB	181978.	429.952 UG/KG	11.86
8	56	183	9:18	1	0.796	A BV	194849.	445.764 UG/KG	12.29
9	53	195	9:55	1	0.848	A BB	512675.	617.545 UG/KG	17.03
10	101	212	10:47	1	0.922	A BV	314570.	42.281 UG/KG	1.17
11	76	203	10:19	1	0.883	A BB	832984.	54.428 UG/KG	1.50
12	96	224	11:23	1	0.974	A BV	196759.	41.105 UG/KG	1.13
13	65	248	12:36	1	1.078	A BB	83157.	41.460 UG/KG	1.14
14	96	262	13:19	1	1.139	A BV	157034.	42.225 UG/KG	1.16
15	83	271	13:47	1	1.178	A BV	434932.	44.082 UG/KG	1.22
16	62	286	14:32	1	1.243	A BV	245574.	47.955 UG/KG	1.32
17	72	285	14:29	1	1.239	A BB	236588.	426.014 UG/KG	11.75
18	97	314	15:58	1	1.365	A BV	296294.	41.090 UG/KG	1.13
19	117	321	16:19	1	1.396	A VV	435923.	45.471 UG/KG	1.25
20	79 23	0412	20:57	20	1.000	A BB	6352 33887.	10.000 UG/KG	0.28
21	43	322	16:22	1	1.400	A BV	299953.	52.936 UG/KG	1.46
22	127	328	16:40	1	1.426	A BB	52242.	47.788 UG/KG	1.32
23	65	358	18:12	1	1.557	A BB	58654.	43.250 UG/KG	1.19
24	75	361	18:21	1	1.570	A BV	332794.	44.571 UG/KG	1.23
25	130	372	18:55	1	1.617	A BB	376334.	45.176 UG/KG	1.25
26	78	385	19:34	1	1.674	A BB	497261.	43.939 UG/KG	1.21
27	97	386	19:37	1	1.678	A VB	297174.	48.213 UG/KG	1.33
28	75	387	19:40	1	1.683	A BB	185558.	47.838 UG/KG	1.32
9	127	383	19:28	1	1.645	A BV	469981.	49.297 UG/KG	1.34
40	63	409	20:47	1	1.778	A BB	119464.	52.062 UG/KG	1.44
31	173	437	22:13	1	1.900	A BB	500197.	52.188 UG/KG	1.44
32	58	449	22:49	1	1.952	A BV	132734.	86.156 UG/KG	2.38
33	55 23	492	25:01	33	1.000	A VV	6352 74593.	10.000 UG/KG	0.28
34	58	480	24:24	1	2.087	A BB	402799.	88.344 UG/KG	2.44
35	83	484	24:36	1	2.104	A BB	504084.	51.563 UG/KG	1.42
36	164	485	24:39	1	2.109	A BB	413743.	46.292 UG/KG	1.28
37	92	518	26:20	1	2.252	A BB	362948.	44.104 UG/KG	1.22
38	112	547	27:48	1	2.378	A BB	685400.	45.258 UG/KG	1.25
39	106	611	31:04	1	2.657	A BB	268571.	44.038 UG/KG	1.21
40	104	752	38:14	1	3.270	A BB	781366.	63.071 UG/KG	1.74
41	106	797	40:31	1	3.465	A BB	488117.	49.785 UG/KG	1.37
42	65	284	14:26	1	1.235	A BB	75659.	11.160 UG/KG	0.31
43	100	513	26:05	1	2.230	A BV	113131.	9.768 UG/KG	0.27
44	176	696	35:23	1	3.026	A BB	186205.	11.589 UG/KG	0.32

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	11:45	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:48	0.99	0.238	0.99	40.61	40.61	0.426	0.420	1.02
3	4:28	1.00	0.381	1.00	41.08	41.08	1.832	1.784	1.03
4	5:26	1.00	0.463	1.00	39.42	39.42	1.771	1.797	0.99
5	6:40	1.00	0.567	1.00	39.05	39.05	0.291	0.299	0.98
6	8:45	1.00	0.745	1.00	38.81	38.81	0.917	0.945	0.97
7	9:18	1.00	0.792	1.00	429.95	299.98	0.091	0.064	1.43
8	9:18	1.00	0.792	1.00	445.76	399.98	0.073	0.066	1.11
9	9:55	1.00	0.844	1.00	617.54	399.98	0.193	0.125	1.54
10	10:47	1.00	0.918	1.00	42.28	40.00	1.185	1.121	1.06

013845

003171

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:19	1.00	0.879	1.00	54.43	40.00	3.137	2.305	1.36
12	11:23	1.00	0.970	1.00	41.11	40.00	0.741	0.721	1.03
13	12:39	1.00	1.078	1.00	41.46	40.00	0.313	0.302	1.04
14	13:19	1.00	1.134	1.00	42.22	40.00	0.591	0.560	1.06
15	13:47	1.00	1.173	1.00	44.08	40.00	1.638	1.486	1.10
16	14:32	1.00	1.238	1.00	47.96	40.00	0.925	0.771	1.20
17	14:29	1.00	1.234	1.00	426.01	299.98	0.119	0.084	1.42
18	15:58	1.00	1.359	1.00	41.09	40.00	1.116	1.086	1.03
19	16:22	1.00	1.394	1.00	45.47	40.00	1.642	1.444	1.14
20	21:00	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:25	1.00	1.398	1.00	52.94	40.00	1.130	0.854	1.32
22	16:40	1.00	1.420	1.00	47.79	40.00	0.197	0.165	1.19
23	18:12	1.00	1.530	1.00	43.25	40.00	0.221	0.204	1.08
24	18:24	1.00	1.567	1.00	44.57	40.00	1.253	1.125	1.11
25	18:58	1.00	1.615	1.00	45.18	40.00	1.417	1.255	1.13
26	19:37	1.00	1.671	1.00	43.94	40.00	1.873	1.705	1.10
27	19:40	1.00	1.675	1.00	48.21	40.00	1.119	0.929	1.21
28	19:40	1.00	1.675	1.00	47.84	40.00	0.699	0.584	1.20
29	19:31	1.00	1.662	1.00	49.30	40.00	1.770	1.436	1.23
30	20:47	1.00	1.771	1.00	52.06	40.00	0.450	0.346	1.30
31	22:16	1.00	1.896	1.00	52.19	40.00	1.884	1.444	1.30
32	22:52	1.00	1.948	1.00	86.16	60.00	0.333	0.232	1.44
33	25:04	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:27	1.00	2.082	1.00	88.34	60.00	1.011	0.687	1.47
35	24:36	1.00	2.095	1.00	51.56	40.00	1.898	1.473	1.29
36	24:42	1.00	2.104	1.00	46.29	40.00	1.558	1.346	1.16
37	26:23	1.00	2.247	1.00	44.10	40.00	1.367	1.240	1.10
38	27:51	1.00	2.372	1.00	45.26	40.00	2.581	2.281	1.13
39	31:07	1.00	2.649	1.00	44.04	40.00	1.011	0.919	1.10
40	38:20	1.00	3.264	1.00	63.07	40.00	2.943	1.866	1.58
41	40:25	1.00	3.457	1.00	49.79	40.00	1.838	1.477	1.24
42	14:29	1.00	1.234	1.00	11.16	10.00	1.140	1.021	1.12
43	26:08	1.00	2.225	1.00	9.77	10.00	1.704	1.745	0.98
44	35:26	1.00	3.017	1.00	11.59	10.00	2.805	2.421	1.16

005172

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29

QUANTITATION REPORT FILE: CS840210C18

DATA: CS840210C18.TI

02/10/84 1:21:00

SAMPLE: 10 ML H2O + 5 UL (10985+10990) + MEDIUM LEVEL V238 STD 1817

SCANNED BY: 18

ANALYST: 714

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

- | NO | NAME |
|----|----------------------------------|
| 1 | * BROMOCHLOROMETHANE (IB) |
| 2 | 221 CHLOROMETHANE |
| 3 | 220 BROMOMETHANE |
| 4 | 231 VINYL CHLORIDE |
| 5 | 209 CHLOROETHANE |
| 6 | 222 METHYLENE CHLORIDE |
| 7 | 252 ACETONE (2-PROPANONE) |
| 8 | 201 ACROLEIN |
| 9 | 202 ACRYLONITRILE |
| 10 | 230 TRICHLOROFLUOROMETHANE |
| 11 | 254 CARBON DISULFIDE |
| 12 | 216 1, 1-DICHLOROETHYLENE |
| 13 | 214 1, 1-DICHLOROETHANE |
| 14 | 226 TRANS-1, 2-DICHLOROETHYLENE |
| 15 | 211 CHLOROFORM |
| 16 | 215 1, 2-DICHLOROETHANE |
| 17 | 253 2-BUTANONE |
| 18 | 227 1, 1, 1-TRICHLOROETHANE |
| 19 | 206 CARBON TETRACHLORIDE |
| 20 | * 2-BROMO-1-CHLOROPROPANE |
| 21 | 257 VINYL ACETATE |
| 22 | 212 BROMODICHLOROMETHANE |
| 23 | 217 1, 2-DICHLOROPROPANE |
| 24 | 250 TRANS-1, 3-DICHLOROPROPENE |
| 25 | 229 TRICHLOROETHYLENE |
| 26 | 203 BENZENE |
| 27 | 228 1, 1, 2-TRICHLOROETHANE |
| 28 | 218 CIS-1, 3-DICHLOROPROPENE |
| 29 | 208 DIBROMOCHLOROMETHANE |
| 30 | 210 2-CHLOROETHYL VINYL ETHER |
| 31 | 205 BROMOFORM |
| 32 | 256 4-METHYL-2-PENTANONE |
| 33 | * DICHLOROBUTANE |
| 34 | 255 2-HEXANONE |
| 35 | 223 1, 1, 2, 2-TETRACHLOROETHANE |
| 36 | 224 TETRACHLOROETHENE |
| 37 | 225 TOLUENE |
| 38 | 207 CHLOROBENZENE |
| 39 | 219 ETHYLBENZENE |
| 40 | 251 STYRENE |
| 41 | 239 O-XYLENE |
| 42 | * D4-1, 2-DICHLOROETHANE |
| 43 | * D8-TOLUENE |
| 44 | * BROMOFLUOROBENZENE |

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT
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XTOT

013847
005173

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	230	11:41	1	1.000	A BB	66382.	10.000 UG/KG	0.35
2	50	54	2:45	1	0.235	A BV	113227.	39.999 UG/KG	1.40
	94	88	4:28	1	0.383	A BB	486554.	39.999 UG/KG	1.40
	62	107	5:26	1	0.465	A BB	470179.	39.999 UG/KG	1.40
5	64	131	6:40	1	0.570	A BV	773897.	39.999 UG/KG	1.40
6	84	172	8:45	1	0.748	A BV	243527.	39.999 UG/KG	1.40
7	58	183	9:18	1	0.796	A VB	181978.	299.985 UG/KG	10.49
8	56	183	9:18	1	0.796	A BV	194849.	399.984 UG/KG	13.99
9	53	195	9:55	1	0.848	A BB	512675.	399.984 UG/KG	13.99
10	101	212	10:47	1	0.922	A BV	314570.	39.999 UG/KG	1.40
11	76	203	10:19	1	0.883	A BB	832984.	39.999 UG/KG	1.40
12	96	224	11:23	1	0.974	A BV	196759.	39.999 UG/KG	1.40
13	65	248	12:36	1	1.078	A BB	83137.	39.999 UG/KG	1.40
14	96	262	13:19	1	1.139	A BV	157034.	39.999 UG/KG	1.40
15	83	271	13:47	1	1.178	A BV	434932.	39.999 UG/KG	1.40
16	62	286	14:32	1	1.243	A BV	245574.	39.999 UG/KG	1.40
17	72	285	14:29	1	1.239	A BB	236588.	299.985 UG/KG	10.49
18	97	314	15:58	1	1.365	A BV	296294.	39.999 UG/KG	1.40
19	117	321	16:19	1	1.396	A VV	435923.	39.999 UG/KG	1.40
20	79	412	20:57	20	1.000	A BB	33887.	10.000 UG/KG	0.35
21	43	322	16:22	1	1.400	A BV	299953.	39.999 UG/KG	1.40
22	127	328	16:40	1	1.426	A BB	52242.	39.999 UG/KG	1.40
23	65	358	18:12	1	1.557	A BB	58654.	39.999 UG/KG	1.40
24	75	361	18:21	1	1.570	A BV	332794.	39.999 UG/KG	1.40
25	130	372	18:55	1	1.617	A BB	376334.	39.999 UG/KG	1.40
26	78	385	19:34	1	1.674	A BB	497261.	39.999 UG/KG	1.40
27	97	386	19:37	1	1.678	A VB	297174.	39.999 UG/KG	1.40
28	75	387	19:40	1	1.683	A BB	185558.	39.999 UG/KG	1.40
29	127	383	19:28	1	1.665	A BV	469981.	39.999 UG/KG	1.40
	63	409	20:47	1	1.778	A BB	119464.	39.999 UG/KG	1.40
31	173	437	22:13	1	1.900	A BB	500197.	39.999 UG/KG	1.40
32	58	449	22:49	1	1.952	A BV	132734.	59.999 UG/KG	2.10
33	55	492	25:01	33	1.000	A VV	74593.	10.000 UG/KG	0.35
34	58	480	24:24	1	2.087	A BB	402799.	59.999 UG/KG	2.10
35	83	484	24:36	1	2.104	A BB	504084.	39.999 UG/KG	1.40
36	164	485	24:39	1	2.109	A BB	413743.	39.999 UG/KG	1.40
37	92	518	26:20	1	2.252	A BB	362948.	39.999 UG/KG	1.40
38	112	547	27:48	1	2.378	A BB	685400.	39.999 UG/KG	1.40
39	106	611	31:04	1	2.657	A BB	268571.	39.999 UG/KG	1.40
40	104	752	38:14	1	3.270	A BB	781366.	39.999 UG/KG	1.40
41	106	797	40:31	1	3.465	A BB	488117.	39.999 UG/KG	1.40
42	65	284	14:26	1	1.235	A BB	75659.	10.000 UG/KG	0.35
43	100	513	26:05	1	2.230	A BV	113131.	10.000 UG/KG	0.35
44	176	696	35:23	1	3.026	A BB	186205.	10.000 UG/KG	0.35

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	11:41	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:45	1.00	0.235	1.00	40.00	40.00	0.426	0.426	1.00
3	4:28	1.00	0.383	1.00	40.00	40.00	1.832	1.832	1.00
4	5:26	1.00	0.465	1.00	40.00	40.00	1.771	1.771	1.00
5	6:40	1.00	0.570	1.00	40.00	40.00	0.291	0.291	1.00
6	8:45	1.00	0.748	1.00	40.00	40.00	0.917	0.917	1.00
7	9:18	1.00	0.796	1.00	299.98	299.98	0.091	0.091	1.00
8	9:18	1.00	0.796	1.00	399.98	399.98	0.073	0.073	1.00
9	9:55	1.00	0.848	1.00	399.98	399.98	0.193	0.193	1.00
10	10:47	1.00	0.922	1.00	40.00	40.00	1.185	1.185	1.00

013848
003174

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:19	1.00	0.883	1.00	40.00	40.00	3.137	3.137	1.00
12	11:23	1.00	0.974	1.00	40.00	40.00	0.741	0.741	1.00
13	12:36	1.00	1.078	1.00	40.00	40.00	0.313	0.313	1.00
14	13:17	1.00	1.139	1.00	40.00	40.00	0.591	0.591	1.00
15	13:47	1.00	1.178	1.00	40.00	40.00	1.638	1.638	1.00
16	14:32	1.00	1.243	1.00	40.00	40.00	0.925	0.925	1.00
17	14:29	1.00	1.239	1.00	299.98	299.98	0.119	0.119	1.00
18	15:58	1.00	1.365	1.00	40.00	40.00	1.116	1.116	1.00
19	16:19	1.00	1.396	1.00	40.00	40.00	1.642	1.642	1.00
20	20:57	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:22	1.00	1.400	1.00	40.00	40.00	1.130	1.130	1.00
22	16:40	1.00	1.426	1.00	40.00	40.00	0.197	0.197	1.00
23	18:12	1.00	1.557	1.00	40.00	40.00	0.221	0.221	1.00
24	18:21	1.00	1.570	1.00	40.00	40.00	1.253	1.253	1.00
25	18:55	1.00	1.617	1.00	40.00	40.00	1.417	1.417	1.00
26	19:34	1.00	1.674	1.00	40.00	40.00	1.873	1.873	1.00
27	19:37	1.00	1.678	1.00	40.00	40.00	1.119	1.119	1.00
28	19:40	1.00	1.683	1.00	40.00	40.00	0.699	0.699	1.00
29	19:28	1.00	1.665	1.00	40.00	40.00	1.770	1.770	1.00
30	20:47	1.00	1.778	1.00	40.00	40.00	0.450	0.450	1.00
31	22:13	1.00	1.900	1.00	40.00	40.00	1.884	1.884	1.00
32	22:49	1.00	1.952	1.00	60.00	60.00	0.333	0.333	1.00
33	25:01	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:24	1.00	2.087	1.00	60.00	60.00	1.011	1.011	1.00
35	24:36	1.00	2.104	1.00	40.00	40.00	1.898	1.898	1.00
36	24:39	1.00	2.109	1.00	40.00	40.00	1.558	1.558	1.00
37	26:20	1.00	2.252	1.00	40.00	40.00	1.367	1.367	1.00
38	27:48	1.00	2.378	1.00	40.00	40.00	2.581	2.581	1.00
39	31:04	1.00	2.657	1.00	40.00	40.00	1.011	1.011	1.00
40	38:14	1.00	3.270	1.00	40.00	40.00	2.943	2.943	1.00
41	40:31	1.00	3.465	1.00	40.00	40.00	1.838	1.838	1.00
42	14:26	1.00	1.235	1.00	10.00	10.00	1.140	1.140	1.00
43	26:05	1.00	2.230	1.00	10.00	10.00	1.704	1.704	1.00
44	35:23	1.00	3.026	1.00	10.00	10.00	2.805	2.805	1.00

013849

003125

Mead ComputChem
GC/MS Analysis Log

2333

Press Hard, Multiple Copies

Initial Time of Turn
Time Turn Escape

70743
0715
0728
A

01385

File Name	Used	NOT Used	Amount Injected	Operator	Tape No.	Disc. No.	
17 Afflu203611			2ul	677		182	10982
2 GBF1020761F			10ul	671		182	10985, 10992
3 C840209816			10ul	671		182	10885, 10890
4 CD840209816			10ul	677		182	10985, 10990
5			death over				
6 GBF1020761F			2ul	714		182	10987
7 GBF1020761F			10ul	714		182	10985, 10990
8 GC402010C18			10ul	714		182	10985, 10990
9 G402010C18			10ul	714		182	10985, 10990
10 G401-G1019422C18			10ul	714		182	10985, 10990
11 G1019422C18			10ul	714		182	10985, 10990
12 G1019422C18			10ul	714		182	10985, 10990
13 G1019422C18			10ul	714		182	10985, 10990, 10991
14 G1019422C18			10ul	714		182	10985, 10990
15 G4019422C18			10ul/10ml	714		182	10985, 10990, 10991
16 G4019422C18			10ul/10ml	633		182	
17			bake 2hr				
18 GB8402010A18			10ul	633		182	
19			bake 1hr				

Mead ComputChem GC/MS Analysis Log

Press Hard, Multiple Copies

Initial Time of Run 10:45
Time Run Elapsed 04:45
0128

Sample (A) / (B)
Date 2/19/95
Analyte Type 218

013

Sample Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
			2 µl	679		182	10987
			10 µl	621		182	10985, 10990 NCC ₂ = 8.5
			10 µl	681		182	10985, 10990 NCC ₂ = 7.8
			10 µl	679		182	10985, 10990 NCC ₂ = 5.7
			2 µl	714		182	10987
			10 µl	714		182	10985, 10990
			10 µl	714		182	10985, 10990 and 10992 and 10993 R17 w/pt 10992
			10 µl	714		182	10985, 10990
			10 µl	714		182	10985, 10990
			10 µl	714		182	10985, 10990
			10 µl	714		182	10985, 10990, 10981 w/pt 10990
			10 µl	714		182	10985, 10990
			100.0/10.0 µl	633		182	10985, 10990, 10984 w/pt 10990
			10 µl	633		182	
			10 µl	633		182	

Circle correct code number: 237 (liquids) or 238 (solids)
 Instrument Procedure Code: 217R3
 DATE: 2/7/83
 OPERATOR: GSS

HEAD COMPUTER
 QMG 18

INITIAL MULTIPPOINT CALIBRATION

COMPOUND NAME	AUTOQ NO.	SPEC/CC	20 NF	40 NF	60 NF	RF	RET RF	CALIBRATION CHECK Standard File Name	Operator	Date
Chloroethane	2	SPEC	15R	25R9	0.535		0.534	0.426		14
Vinyl chloride	4	CCC	1992	2221	2091		2.071	0.741		14
1,1-dichloroethane	12	CCC	0817	0854	0921		0.864	0.313		4.5
1,1-dichloroethane	13	SPEC	0353	0327	0401		0.374	1.638		7.5
Chloroform	15	CCC	1653	1610	1706		1.716	0.221		
1,2-dichloroethane	23	CCC	0205	0234	0258		0.239	0.450		
2-chloroethylalcohol	30	SPEC	0357	0372	0367		0.372	1.854		
Bromoform	31	SPEC	1368	1458	1515		1.457	1.898		
1,1,2-trichloroethane	36	SPEC	1496	1639	1731		1.625	1.367		0
Toluene	37	CCC	1326	1357	1490		1.361			
Chlorobenzene	38	SPEC	0357	0413	0471		2.414	2.581		

All NAT of each compound in the standard, including SPEC and CCC, must be within 0.8 - 1.20

RF = Average Response Factor; must be above 0.30 for each SPEC
 SPC = System Performance Check Compounds in Multipoint Calibration and Calibration Check
 CCC = Calibration Check Compounds; criteria must be met before analysis of samples
 SD = Percent differences; all SD must be less than 20%, calculated as
 $SD = \frac{RF - BE \times 100}{RF}$

POSTED
 2-11-83

REV 1/6/84, PEM

013852

B

013853
005179

29

EPA CASE# 2333

HEAD COMPUCHEN CASE SUMMARY REFERENCE VALUE

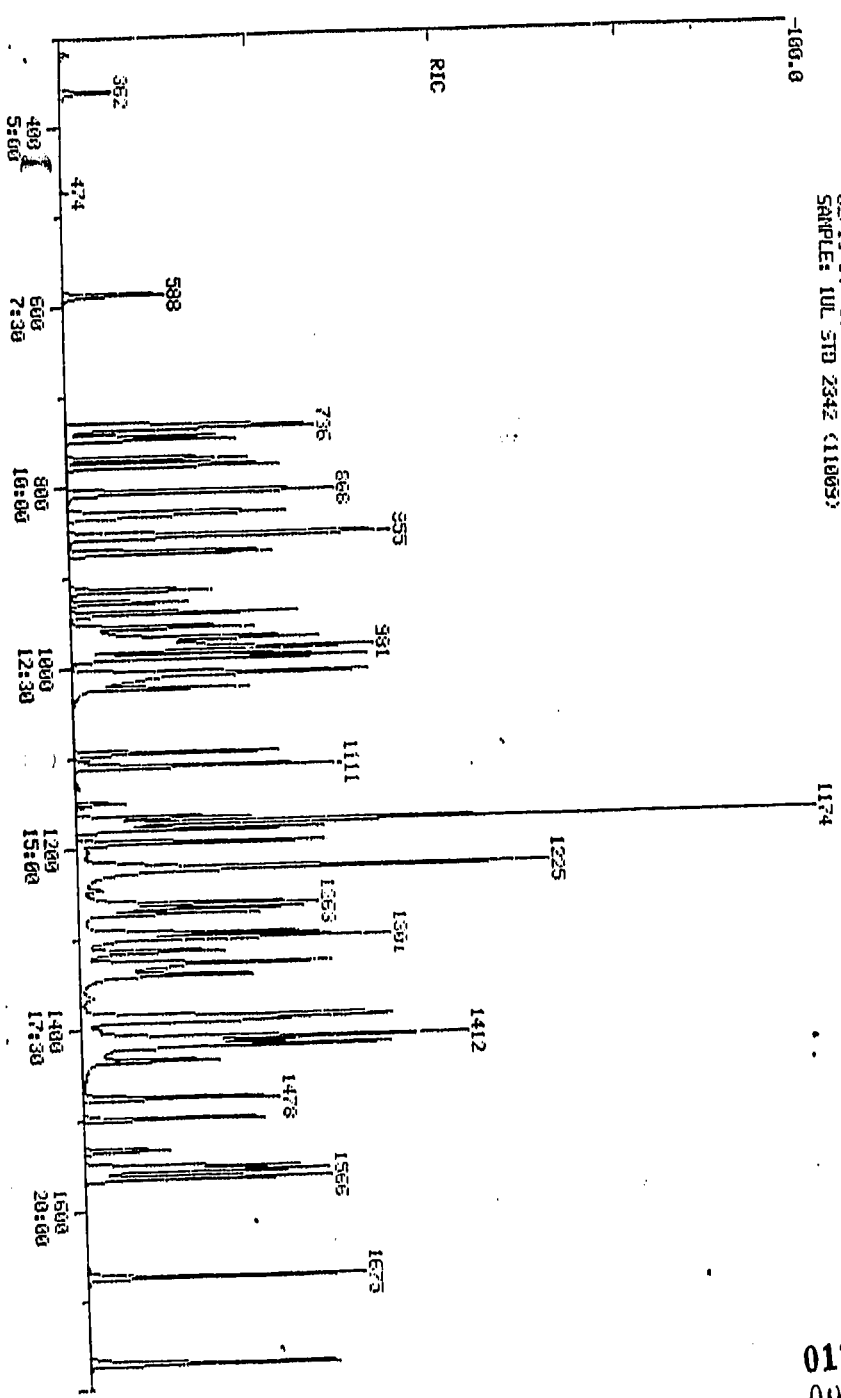
DATE 2-29-84

Fraction	associated zone	associated site std.	CC #	EPA SD/	Analysis Date/Name	Year Inst. Bldg	Extract. Date	Assoc. Site	Comments
SV									
	DH840213C15	HG840213C15	19558	R3512	✓	✓			
	DH840213B14	HG840213B14	19557	R3518	✓	✓			
	DH840213B16	HG840213B16	19562	R3521					
	DH840213B15	HG840213B15	19556	R3517					
	DH840213B14	HG840213B14	19563	R3522					
	"	"	19567	R3521	✓	✓			
	DH840214C26	HG840214C26	19560	R3519	✓	✓			
	DH840214B22	HG840214B22	20558	R3517					
	DH840213C15	HG840213C15	19562	R3521	✓	✓			
	DH840212B14	HG840212B14	19561	R3520	✓	✓			
	DH840213C15	HG840213C15	19563	R3522	✓	✓			

013854

RIC
02/19/84 3:51:00
SAMPLE: IUL STD 2342 (11005)

HEAD COMPUCHEM
COMPUCHEM DATA: H6340210C15 SCRA15 300 TO 1800
OUT OF 300 TO 3000



013855
005181

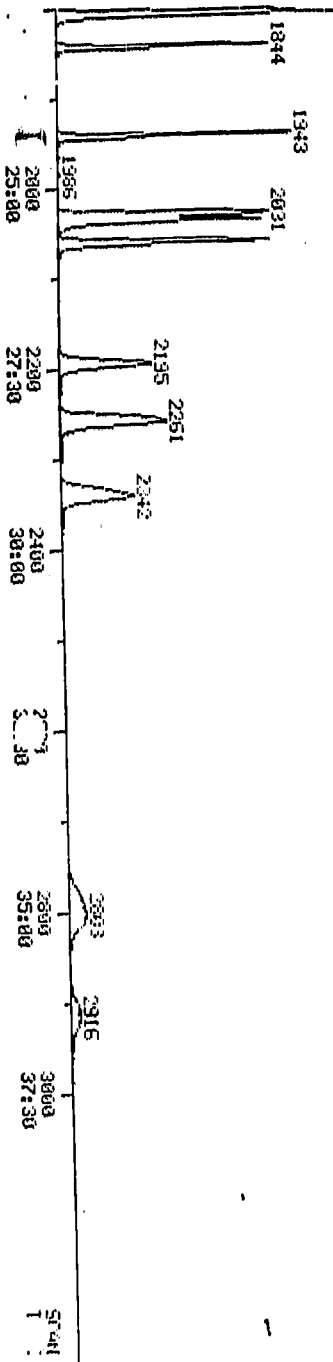
RIC
02/18/84 3:51:00
SAMPLE: IUL STD 2342 (11009)

HEAD COMPUTHER
COMPUCHER DATA: HG340210C15 SCANS 1000 TO 3000
OUT OF 300 TO 3000

161289.

013856

001500



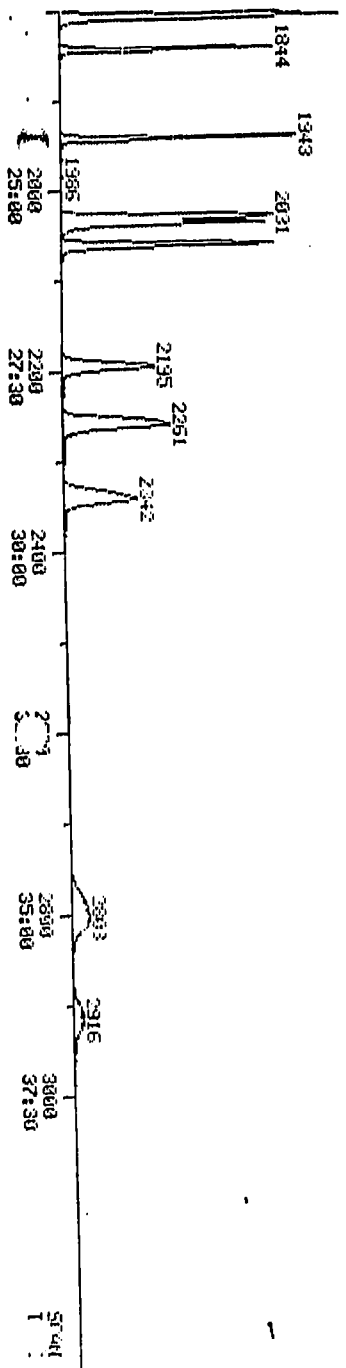
RIC
02/10/84 3:51:00
SAMPLE: IUL STD 2342 (11009)

MEAD COMPUTER
COMPUCHEN DATA: HG840210C15 SCANS 1800 TO 3000
OUT OF 300 TO 3000

151280.

013856

003182



57.04
1

PROCEDURE: RK DIAGNOSTIC REPORT

DATA FILE: HGB40210C15

REFERENCE: FSCC7

METHOD: FSCC7 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

REPORT: FSCC7S1

STANDARDS				PLUS UNKNOWN				LIST NAMES	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
6	6	1	38	34	31	12	99	FSCC7S1/FSCC7U1	
6	6	1	38	34	27	4	104	FSCC7S2/FSCC7U2	

82 COMPOUNDS PROCESSED, 72 FOUND

COMPOUND		SEARCH						SAT		CHRD		
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	C1	1	-772	776	776	.	1	992	150	776	.	1
2	C2	1	-984	988	988	.	1	985	136	988	.	1
3	C3	1	-1291	1296	1296	.	1	995	164	1296	.	1
4	C4	1	-1548	1553	1554	1	1	984	188	1554	.	1
5	C5	1	-2028	2034	2034	.	1	892	240	2033	-1	1
6	C6	1	-2327	2334	2334	.	1	861	264	2334	.	1
7	C1	2	-356	359	362	3	1	981	74	362	.	1
8	C1	3	-733	737	736	-1	1	996	94	736	.	1
9	C1	4	-730	734		.	.		93	733	.	1
10	C1	5	-742	746	745	-1	1	981	93	745	.	1
11	C1	6	-745	749	749	.	1	992	128	749	.	1
12	C1	7	-766	770	769	-1	1	996	146	769	.	1
13	C1	8	-774	772	778	.	1	994	146	778	.	1
14	C1	9	-803	807	807	.	1	987	108	806	-1	1
15	C1	10	-804	808	808	.	1	992	146	808	.	1
16	C1	11	-827	831	830	-1	1	995	108	830	.	1
17	C1	12	-829	833		.	.		121	832	.	1
18	C1	13	-851	855	854	-1	1	997	108	854	.	1
19	C1	14	-852	856	856	.	1	981	130	855	-1	1
20	C1	15	-853	857		.	.		117	857	.	1
21	C1	16	-871	875	875	.	1	988	123	875	.	1
22	C2	2	-912	916	915	-1	1	990	82	915	.	1
23	C2	3	-925	929	929	.	1	988	139	929	.	1
24	C2	4	-937	941	941	.	1	995	122	941	.	1
25	C2	5	-953	957	957	.	1	964	93	957	.	1
26	C2	6	-977	981	981	.	2	963	105	981	.	1
27	C2	7	-965	969	969	.	1	994	162	969	.	1
28	C2	8	-976	982	982	.	1	994	180	982	.	1
29	C2	9	-987	991	991	.	1	997	128	991	.	1
30	C2	10	-1007	1011	1008	-3	1	994	127	1008	.	1
31	C2	11	-1020	1024	1024	.	1	981	225	1024	.	1
32	C2	12	-1091	1095	1095	.	1	995	107	1095	.	1
33	C2	13	-1107	1111	1111	.	1	994	115	1111	.	1
34	C2	14	-1147	1151	1151	.	1	944	237	1151	.	1
35	C2	15	-1163	1167	1167	.	1	994	196	1167	.	1
36	C2	16	-1170	1174	1174	.	1	998	194	1174	.	1
37	C3	2	-1191	1195	1195	.	1	995	162	1195	.	1
38	C3	3	-1220	1224	1225	1	1	996	138	1225	.	1
39	C3	4	-1258	1262	1263	1	1	991	163	1263	.	1
40	C3	5	-1263	1267	1268	1	1	997	152	1268	.	1
41	C3	6	-1269	1273	1274	1	1	993	165	1274	.	1
42	C3	7	-1290	1294	1294	.	1	920	138	1293	-1	1
43	C3	8	-1296	1301	1301	.	1	991	154	1301	.	1
44	C3	9	-1310	1315	1315	.	3	992	184	1315	.	1
45	C3	10	-1329	1334	1332	-2	2	986	109	1332	.	1
46	C3	11	-1325	1330	1329	-1	1	984	168	1329	013857	1
47	C3	12	-1336	1341	1342	1	1	989	165	1341	-1	1
48	C3	13	-1383	1388	1387	-1	1	985	149	1387	010518	1
49	C3	14	-1388	1393	1393	.	1	916	204	1393	.	1

52	C3	17	-1407	1412	1412	.	1	996	170	1414	.	1
53	C3	18	-1410	1415	1416	1	1	878	169	1414	.	1
54	C3	19	-1415	1420	1420	.	1	991	77	1420	.	1
55	C4	2	-1472	1477	1478	1	1	991	248	1477	-1	1
56	C4	3	-1495	1500	1501	1	1	984	284	1500	-1	1
57	C4	4	-1529	1534	1534	.	1	978	266	1534	.	1
58	C4	5	-1552	1557	1558	1	2	987	178	1558	.	1
59	C4	6	-1560	1565	1566	1	2	992	178	1566	.	1
60	C4	7	-1670	1675	1675	.	1	964	149	1675	.	1
61	C4	8	-1765	1770	1771	1	1	989	202	1770	-1	1
62	C5	2	-1804	1809	1810	1	1	984	202	1810	.	1
63	C5	3	.	.	.	.	.	.	184	.	.	.
64	C5	4	-1939	1944	1943	-1	1	995	149	1943	.	1
65	C5	5	.	.	.	.	.	.	252	.	.	.
66	C5	6	-2025	2030	2030	.	1	949	228	2030	.	1
67	C5	7	-2052	2063	2062	-1	1	909	149	2062	.	1
68	C5	8	-2033	2038	2038	.	1	972	228	2038	.	1
69	C5	9	-2193	2198	2195	-3	1	950	149	2196	1	1
70	C6	2	-2254	2259	2260	1	1	933	252	2261	1	2
71	C6	3	-2254	2259	2260	1	1	917	252	2261	1	2
72	C6	4	-2337	2343	2342	-1	1	926	252	2342	.	1
73	C6	5	-2775	2781	.	.	.	.	276	2784	.	3
74	C6	6	-2802	2808	.	.	.	.	278	2806	.	2
75	C6	7	-2904	2910	.	.	.	.	276	2909	.	3
76	C7	2	-584	588	588	.	1	987	112	588	.	1
77	C7	3	-732	736	.	.	.	.	99	735	.	1
78	C7	4	-868	873	872	-1	1	995	82	872	.	1
79	C7	5	-1177	1182	1181	-1	1	990	172	1181	.	1
80	C7	6	-1431	1436	1436	.	1	958	330	1436	.	1
81	C7	7	-1801	1806	.	.	.	.	212	1807	.	1
82	C7	8	-1839	1844	1844	.	1	986	244	1844	.	1

013858
005184

QUANTITATION REPORT FILE: HGB40210C15

DATA: HGB40210C15.T1
02/10/84 3:51:00
SAMPLE: 1UL STD 2342 (11009)
SUBMITTED BY: 15 ANALYST: 754

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

NO	NAME
1	*DA-1,4-DICHLORO BENZENE (IS)
2	441 N-NITROSODIMETHYAMINE
3	610 PHENOL
4	473 ANILINE
5	411 BIS(2-CHLOROETHYL)ETHER
6	601 2-CHLOROPHENOL
7	421 1,3-DICHLOROBENZENE
8	422 1,4-DICHLOROBENZENE
9	474 BENZYL ALCOHOL
10	420 1,2-DICHLOROBENZENE
11	620 2-METHYLPHENOL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSO-DI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	440 NITROBENZENE
17	*460 DB-NAPHTHALENE (IS)
18	438 ISOPHRONE
19	606 2-NITROPHENOL
20	603 2,4-DIMETHYLPHENOL
21	410 BIS(2-CHLOROETHOXY)METHANE
	625 BENZOIC ACID
	602 2,4-DICHLOROPHENOL
24	446 1,2,4-TRICHLOROBENZENE
25	439 NAPHTHALENE
26	475 4-CHLOROANILINE
27	434 HEXACHLOROBUTADIENE
28	608 P-CHLORO-M-CRESOL
29	477 2-METHYLNAPHTHALENE
30	435 HEXACHLOROCYCLOPENTADIENE
31	611 2,4,6-TRICHLOROPHENOL
32	626 2,4,5-TRICHLOROPHENOL
33	*D10-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	425 DIMETHYLPHTHALATE
37	402 ACENAPHTHYLENE
38	428 2,6-DINITROTOLUENE
39	478 2-NITROANILINE
40	401 ACENAPHTHENE
41	605 2,4-DINITROPHENOL
42	607 4-NITROPHENOL
43	476 DIBENZOFURAN
44	427 2,4-DINITROTOLUENE
45	424 DIETHYLPHTHALATE
46	417 4-CHLOROPHENYL PHENYL ETHER

*red
2342*

013859

005185

NO NAME
 47 432 FLUORENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-D-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSD)
 430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE)
 52 *467 D10-PHENANTHRENE (IS)
 53 414 4-BROMOPHENYL PHENYL ETHER
 54 433 HEXACHLOROBENZENE
 55 609 PENTACHLOROPHENOL
 56 444 PHENANTHRENE
 57 403 ANTHRACENE
 58 426 DI-N-BUTYLPHTHALATE
 59 431 FLUORANTHENE
 60 *459 D12-CHRYSENE (IS)
 61 445 PYRENE
 62 404 BENZIDENE
 63 415 BUTYL BENZYLPHTHALATE
 64 423 3,3'-DICHLOROBENZIDINE
 65 405 BENZO(A)ANTHRACENE
 66 413 BIS(2-ETHYLHEXYL)PHTHALATE
 67 418 CHRYSENE
 68 429 DI-N-OCTYLPHTHALATE
 69 *D12-BENZO(A)PYRENE (IS)
 70 407 BENZO(B)FLUORANTHENE
 71 409 BENZO(K)FLUORANTHENE
 72 406 BENZO(A)PYRENE
 73 437 INDENO(1,2,3-C,D)PYRENE
 74 419 DIBENZO(A,H)ANTHRACENE
 75 408 BENZO(G,H,I)PERYLENE
 76 619 2-FLUOROPHENOL (SURROGATE)
 7 D5-PHENOL (SURROGATE)
 78 447 D5-NITROBENZENE (SURROGATE)
 79 448 2-FLUOROBIPHENYL (SURROGATE)
 80 TRIBROMOPHENOL (SURROGATE)
 81 D10-PYRENE (SURROGATE)
 82 D14-TERPHENYL (SURROGATE)

M/A
2-10-84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	150	778	9:42	1	1.000	A BB	23697.	40.000 NG	0.68
2	74	362	4:31	1	0.466	A BV	13175.	40.447 NG	0.67
3	94	736	9:12	1	0.948	A BV	37806.	51.371 NG	0.87
4	93	733	9:10	1	0.945	A BV	35053.	74.522 NG	1.26
5	93	745	9:19	1	0.960	A VV	29645.	42.857 NG	0.73
6	128	749	9:22	1	0.965	A BB	24616.	52.311 NG	0.89
7	146	769	9:37	1	0.991	A BB	26083.	50.827 NG	0.86
8	146	778	9:43	1	1.003	A BB	27772.	48.698 NG	0.83
9	108	806	10:04	1	1.039	A BB	15979.	49.172 NG	0.83
10	146	808	10:06	1	1.041	A BB	25809.	50.545 NG	0.86
11	108	830	10:22	1	1.070	A BB	22036.	49.811 NG	0.84
12	121	832	10:24	1	1.072	A BB	9433.	50.287 NG	0.85
13	108	854	10:40	1	1.101	A BV	26169.	51.133 NG	0.87
14	130	855	10:41	1	1.102	A BB	4886.	51.897 NG	0.88
15	117	857	10:43	1	1.104	A BB	12454.	49.346 NG	0.84
16	123	875	10:56	1	1.128	A BB	13296.	47.680 NG	0.81
17	136	988	12:21	17	1.000	A BB	49780.	40.000 NG	0.68
18	82	915	11:26	17	0.926	A BB	54780.	49.519 NG	0.84

013860
 013186

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
19	139	929	11:37	17	0.940	A BB	12663.	50.001 NG	0.85
20	122	941	11:46	17	0.952	A BB	21782.	51.930 NG	0.88
21	93	957	11:58	17	0.969	A BB	32846.	48.091 NG	0.82
22	105	981	12:16	17	0.993	A VV	43458.	164.112 NG	2.78
23	162	969	12:07	17	0.981	A BB	19427.	54.656 NG	0.93
24	180	982	12:16	17	0.994	A BB	22939.	53.032 NG	0.90
25	128	991	12:23	17	1.003	A BB	70874.	49.779 NG	0.84
26	127	1008	12:36	17	1.020	A BV	121026.	434.708 NG	7.37
27	225	1024	12:48	17	1.036	A BB	12858.	56.341 NG	0.96
28	107	1095	13:41	17	1.108	A BB	29814.	56.710 NG	0.96
29	115	1111	13:53	17	1.124	A BB	19426.	50.873 NG	0.86
30	237	1151	14:23	17	1.165	A BB	4334.	66.161 NG	1.12
31	196	1167	14:35	17	1.181	A BV	13991.	57.830 NG	0.98
32	196	1174	14:40	17	1.188	A VV	69037.	296.242 NG	5.02
33	164	1296	16:12	33	1.000	A BB	29582.	40.000 NG	0.68
34	162	1195	14:56	33	0.922	A BB	42774.	49.431 NG	0.84
35	138	1225	15:19	33	0.945	A BV	91795.	274.091 NG	4.65
36	163	1263	15:47	33	0.975	A BB	58160.	55.875 NG	0.95
37	152	1268	15:51	33	0.978	A BB	61288.	82.500 NG	1.40
38	165	1274	15:55	33	0.983	A BB	12553.	56.561 NG	0.96
39	138	1293	16:10	33	0.998	A BV	7351.	170.888 NG	2.90
40	154	1301	16:16	33	1.004	A BB	41957.	48.323 NG	0.82
41	184	1315	16:26	33	1.015	A BB	13168.	265.787 NG	4.50
42	109	1332	16:39	33	1.028	A BV	15921.	131.923 NG	2.24
43	168	1329	16:37	33	1.025	A BB	62927.	51.963 NG	0.88
44	165	1341	16:46	33	1.035	A BB	19082.	59.888 NG	1.02
45	149	1387	17:20	33	1.070	A VB	61800.	35.614 NG	0.94
46	204	1393	17:25	33	1.075	A BB	20654.	51.038 NG	0.87
47	166	1390	17:22	33	1.073	A BB	48116.	51.478 NG	0.87
48	138	1402	17:31	33	1.082	A VV	4454.	172.460 NG	2.92
49	198	1412	17:39	33	1.090	A BB	27798.	294.128 NG	4.99
50	169	1416	17:45	33	1.093	A BB	27546.	102.079 NG	1.73
51	77	1420	17:45	33	1.096	A VV	86299.	50.072 NG	0.85
52	188	1554	19:25	52	1.000	A BB	53250.	40.000 NG	0.68
53	248	1477	18:28	52	0.950	A BB	14735.	48.921 NG	0.83
54	284	1500	18:45	52	0.965	A BB	19621.	52.267 NG	0.89
55	266	1534	19:10	52	0.987	A BB	8498.	56.347 NG	0.96
56	178	1558	19:28	52	1.003	A BV	72033.	50.409 NG	0.85
57	178	1566	19:34	52	1.008	A VB	69324.	50.850 NG	0.86
58	149	1675	20:56	52	1.078	A VV	113122.	51.195 NG	0.87
59	202	1770	22:07	52	1.139	A BV	79426.	55.772 NG	0.95
60	240	2033	23:25	60	1.000	A BV	42503.	40.000 NG	0.68
61	202	1810	22:37	60	0.890	A BV	78159.	51.678 NG	0.88
62	NOT FOUND								
63	149	1943	24:17	60	0.956	A BV	46540.	49.507 NG	0.84
64	NOT FOUND								
65	228	2030	25:22	60	0.999	A BV	71119.	50.999 NG	0.86
66	149	2062	25:46	60	1.014	A DV	70075.	47.303 NG	0.80
67	228	2038	25:28	60	1.002	A VV	64424.	49.151 NG	0.83
68	149	2196	27:27	60	1.080	A BV	117241.	47.515 NG	0.81
69	264	2334	29:10	69	1.000	A BV	45139.	40.000 NG	0.68
70	252	2261	28:16	69	0.969	A*BV	124350.	93.319 NG	1.58
71	252	2261	28:16	69	0.969	A*BV	124350.	93.319 NG	1.58
72	252	2342	29:16	69	1.003	A BV	59520.	56.807 NG	0.96
73	276	2784	34:48	69	1.193	A*VV	16559.	25.994 NG	0.44
74	276	2806	35:04	69	1.202	A*VV	6948.	19.094 NG	0.32

013861

005187

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	276	2909	36:22	69	1.246	A*VV	6835.	14.533 NG	0.25
76	112	588	7:21	1	0.758	A BB	19524.	46.244 NG	0.78
77	99	735	9:11	17	0.744	A BB	28642.	30.734 NG	0.86
78	82	872	10:54	17	0.883	A BB	33566.	46.534 NG	0.79
	172	1181	14:46	17	1.195	A BB	45843.	54.126 NG	0.92
80	330	1436	17:57	33	1.108	A BB	10838.	65.685 NG	1.11
81	212	1807	22:35	60	0.889	A BV	69638.	50.491 NG	0.86
82	244	1844	23:03	52	1.187	A BV	56509.	55.582 NG	0.94

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:39	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:27	1.02	0.461	1.01	40.45	50.00	0.445	0.550	0.81
3	9:10	1.00	0.949	1.00	51.37	50.00	1.276	1.242	1.03
4	9:07	1.00	0.946	1.00	74.52	50.00	1.183	0.794	1.49
5	9:16	1.00	0.961	1.00	42.86	50.00	1.001	1.168	0.86
6	9:19	1.01	0.965	1.00	52.31	50.00	0.831	0.794	1.05
7	9:34	1.00	0.992	1.00	50.83	50.00	0.881	0.866	1.02
8	9:40	1.01	1.003	1.00	48.70	50.00	0.938	0.963	0.97
9	10:02	1.00	1.040	1.00	49.17	50.00	0.539	0.549	0.98
10	10:03	1.00	1.041	1.00	50.54	50.00	0.871	0.862	1.01
11	10:20	1.00	1.071	1.00	49.81	50.00	0.778	0.781	1.00
12	10:22	1.00	1.074	1.00	50.29	50.00	0.318	0.317	1.01
13	10:38	1.00	1.102	1.00	51.13	50.00	0.883	0.864	1.02
14	10:39	1.00	1.104	1.00	51.90	50.00	0.165	0.159	1.04
15	10:40	1.00	1.105	1.00	49.35	50.00	0.420	0.426	0.99
16	10:52	1.00	1.128	1.00	47.68	50.00	0.449	0.471	0.95
17	12:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:24	1.00	0.927	1.00	49.52	50.00	0.880	0.889	0.99
19	11:34	1.00	0.943	1.00	50.00	50.00	0.204	0.202	1.00
20	11:43	1.00	0.952	1.00	51.93	50.00	0.350	0.337	1.04
	11:55	1.00	0.968	1.00	48.09	50.00	0.528	0.549	0.96
22	12:13	1.00	0.993	1.00	164.11	250.00	0.204	0.311	0.66
23	12:04	1.00	0.981	1.00	54.66	50.00	0.312	0.286	1.09
24	12:13	1.00	0.994	1.00	53.03	50.00	0.369	0.348	1.06
25	12:20	1.00	1.003	1.00	49.78	50.00	1.139	1.144	1.00
26	12:35	1.00	1.023	1.00	434.71	250.00	0.389	0.224	1.74
27	12:45	1.00	1.037	1.00	56.34	50.00	0.207	0.183	1.13
28	13:39	1.00	1.102	1.00	56.71	50.00	0.479	0.422	1.13
29	13:50	1.00	1.125	1.00	50.87	50.00	0.312	0.307	1.02
30	14:20	1.00	1.166	1.00	66.16	50.00	0.070	0.053	1.32
31	14:32	1.00	1.182	1.00	57.83	50.00	0.225	0.194	1.16
32	14:37	1.00	1.189	1.00	296.24	250.00	0.222	0.187	1.18
33	16:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	14:53	1.00	0.923	1.00	49.43	50.00	1.157	1.170	0.99
35	15:15	1.00	0.945	1.00	274.09	250.00	0.496	0.453	1.10
36	15:43	1.00	0.974	1.00	55.87	50.00	1.573	1.407	1.12
37	15:47	1.00	0.976	1.00	82.50	50.00	1.657	1.005	1.65
38	15:52	1.00	0.983	1.00	56.56	50.00	0.339	0.300	1.13
39	16:07	1.00	0.999	1.00	170.89	250.00	0.040	0.058	0.68
40	16:12	1.00	1.004	1.00	48.32	50.00	1.135	1.174	0.97
41	16:22	1.00	1.015	1.00	265.74	250.00	0.071	0.067	1.06
42	16:37	1.00	1.029	1.00	131.92	125.00	0.172	0.163	1.06
43	16:34	1.00	1.026	1.00	51.96	50.00	1.702	1.637	1.04
44	16:42	1.00	1.035	1.00	59.89	50.00	0.516	0.431	1.20
45	17:17	1.00	1.071	1.00	55.61	50.00	1.671	1.503	1.11
46	17:21	1.00	1.075	1.00	51.04	50.00	0.559	0.547	1.02

013862

005188

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:19	1.00	1.073	1.00	51.48	50.00	1.301	1.264	1.03
48	17:31	1.00	1.086	1.00	172.46	250.00	0.024	0.035	0.69
49	17:35	1.00	1.090	1.00	294.13	250.00	0.150	0.128	1.18
50	17:37	1.00	1.092	1.00	102.08	50.00	0.745	0.365	2.04
51	17:41	1.00	1.096	1.00	50.07	50.00	2.334	2.330	1.00
52	19:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	18:24	1.00	0.951	1.00	48.92	50.00	0.221	0.226	0.98
54	18:41	1.00	0.966	1.00	52.27	50.00	0.295	0.282	1.05
55	19:07	1.00	0.988	1.00	56.35	50.00	0.128	0.113	1.13
56	19:24	1.00	1.003	1.00	50.41	50.00	1.082	1.073	1.01
57	19:30	1.00	1.008	1.00	50.85	50.00	1.041	1.024	1.02
58	20:52	1.00	1.079	1.00	51.20	50.00	1.699	1.660	1.02
59	22:04	1.00	1.140	1.00	55.77	50.00	1.193	1.070	1.12
60	25:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	22:33	1.00	0.890	1.00	51.68	50.00	1.471	1.423	1.03
62	22:42		0.890			50.00		0.009	
63	24:14	1.00	0.956	1.00	49.51	50.00	0.876	0.885	0.99
64	26:09		1.004			50.00		0.036	
65	25:19	1.00	0.999	1.00	51.00	50.00	1.339	1.312	1.02
66	25:43	1.00	1.015	1.00	47.30	50.00	1.319	1.394	0.95
67	25:25	1.00	1.002	1.00	49.15	50.00	1.213	1.234	0.98
68	27:25	1.00	1.081	1.00	47.51	50.00	2.207	2.322	0.95
69	29:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	28:10	1.00	0.969	1.00	93.32	100.00	1.102	1.181	0.93
71	28:10	1.00	0.969	1.00	93.32	100.00	1.102	1.181	0.93
72	29:13	1.00	1.004	1.00	56.81	50.00	1.055	0.928	1.14
73	34:41	1.00	1.193	1.00	29.99	50.00	0.293	0.565	0.52
74	35:01	1.00	1.204	1.00	19.09	50.00	0.123	0.322	0.38
75	36:18	1.00	1.248	1.00	14.53	50.00	0.121	0.417	0.29
76	7:18	1.01	0.756	1.00	46.24	50.00	0.659	0.713	0.92
77	9:09	1.00	0.744	1.00	50.73	50.00	0.460	0.454	1.01
78	10:51	1.00	0.882	1.00	46.53	50.00	0.539	0.580	0.93
79	14:43	1.00	1.196	1.00	54.13	50.00	0.737	0.681	1.08
80	17:53	1.00	1.108	1.00	65.69	50.00	0.293	0.223	1.31
81	22:31	1.00	0.882	1.00	50.49	50.00	1.311	1.298	1.01
82	22:59	1.00	1.186	1.00	55.58	50.00	0.849	0.764	1.11

013863

005159

QUANTITATION REPORT FILE: HGB40210C15

DATA: HGB40210C15.T1
 02/10/84 3:51:00
 SAMPLE: 1UL STD 2342 (11009)
 SUBMITTED BY: 15 ANALYST: 754

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

NO	NAME
1	*D4-1,4-DICHLOROBENZENE (IS)
2	441 N-NITROSODIMETHYAMINE
3	610 PHENOL
4	473 ANILINE
5	411 BIS(2-CHLOROETHYL)ETHER
6	601 2-CHLOROPHENOL
7	421 1,3-DICHLOROBENZENE
8	422 1,4-DICHLOROBENZENE
9	474 BENZYL ALCOHOL
10	420 1,2-DICHLOROBENZENE
11	620 2-METHYLPHENOL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSO-DI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	440 NITROBENZENE
17	*460 DB-NAPHTHALENE (IS)
18	438 ISOPHRONE
19	606 2-NITROPHENOL
20	603 2,4-DIMETHYLPHENOL
21	410 BIS(2-CHLOROETHOXY)METHANE
?	625 BENZOIC ACID
23	602 2,4-DICHLOROPHENOL
24	446 1,2,4-TRICHLOROBENZENE
25	439 NAPHTHALENE
26	475 4-CHLOROANILINE
27	434 HEXACHLOROBUTADIENE
28	608 P-CHLORO-M-CRESOL
29	477 2-METHYLNAPHTHALENE
30	435 HEXACHLOROCYCLOPENTADIENE
31	611 2,4,6-TRICHLOROPHENOL
32	626 2,4,5-TRICHLOROPHENOL
33	*D10-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	425 DIMETHYLPHTHALATE
37	402 ACENAPHTHYLENE
38	428 2,6-DINITRODLUENE
39	478 2-NITROANILINE
40	401 ACENAPHTHENE
41	605 2,4-DINITROPHENOL
42	607 4-NITROPHENOL
43	476 DIBENZOFURAN
44	427 2,4-DINITRODLUENE
45	424 DIETHYLPHTHALATE
46	417 4-CHLOROPHENYL PHENYL ETHER

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005180

NO NAME
 47 432 FLUORENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-O-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSO)
 51 430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE)
 52 *467 D10-PHENANTHRENE (IS)
 53 414 4-BROMOPHENYL PHENYL ETHER
 54 433 HEXACHLOROBENZENE
 55 609 PENTACHLOROPHENOL
 56 444 PHENANTHRENE
 57 403 ANTHRACENE
 58 426 DI-N-BUTYLPHTHALATE
 59 431 FLUORANTHENE
 60 *459 D12-CHRYSENE (IS)
 61 445 PYRENE
 62 404 BENZIDENE
 63 415 BUTYLBENZYLPHTHALATE
 64 423 3,3'-DICHLOROBENZIDINE
 65 405 BENZO(A)ANTHRACENE
 66 413 BIS(2-ETHYLHEXYL)PHTHALATE
 67 418 CHRYSENE
 68 429 DI-N-OCTYLPHTHALATE
 69 *D12-BENZO(A)PYRENE (IS)
 70 407 BENZO(B)FLUORANTHENE
 71 409 BENZO(K)FLUORANTHENE
 72 406 BENZO(A)PYRENE
 73 437 INDENO(1,2,3-C,D)PYRENE
 74 419 DIBENZO(A,H)ANTHRACENE
 75 408 BENZO(G,H,I)PERYLENE
 76 619 2-FLUOROPHENOL (SURROGATE)
 77 D5-PHENOL (SURROGATE)
 78 447 D5-NITROBENZENE (SURROGATE)
 79 448 2-FLUOROBIPHENYL (SURROGATE)
 80 TRIBROMOPHENOL (SURROGATE)
 81 D10-PYRENE (SURROGATE)
 82 D14-TERPHENYL (SURROGATE)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	150	776	9:42	1	1.000	A BB	23697.	40.000 NG	0.70
2	74	362	4:31	1	0.466	A BV	13175.	50.000 NG	0.87
3	94	736	9:12	1	0.948	A BV	37806.	50.000 NG	0.87
4	93	733	9:10	1	0.945	A BV	35053.	50.000 NG	0.87
5	93	745	9:19	1	0.960	A VV	29645.	50.000 NG	0.87
6	128	749	9:22	1	0.965	A BB	24616.	50.000 NG	0.87
7	146	769	9:37	1	0.991	A BB	26083.	50.000 NG	0.87
8	146	778	9:43	1	1.003	A BB	27772.	50.000 NG	0.87
9	108	806	10:04	1	1.039	A BB	15979.	50.000 NG	0.87
10	146	808	10:06	1	1.041	A BB	25809.	50.000 NG	0.87
11	108	830	10:22	1	1.070	A BB	23036.	50.000 NG	0.87
12	121	832	10:24	1	1.072	A BB	9433.	50.000 NG	0.87
13	108	854	10:40	1	1.101	A BV	26169.	50.000 NG	0.87
14	130	855	10:41	1	1.102	A BB	4886.	50.000 NG	0.87
15	117	857	10:43	1	1.104	A BB	12454.	50.000 NG	0.87
16	123	875	10:56	1	1.128	A BB	13296.	50.000 NG	0.87
17	136	988	12:21	17	1.000	A BB	49780.	40.000 NG	0.70
18	82	915	11:26	17	0.926	A BB	54780.	50.000 NG	0.87

013865

005191

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	%TOT
19	139	929	11:37	17	0.940	A BB	12663.	50.000 NG	0.87
20	122	941	11:46	17	0.952	A BB	21782.	50.000 NG	0.87
21	93	957	11:58	17	0.969	A BB	32846.	50.000 NG	0.87
22	105	981	12:16	17	0.993	A VV	63458.	250.000 NG	4.37
23	162	969	12:07	17	0.981	A BB	19427.	50.000 NG	0.87
24	180	982	12:16	17	0.994	A BB	22939.	50.000 NG	0.87
25	128	991	12:23	17	1.003	A BB	70874.	50.000 NG	0.87
26	127	1008	12:36	17	1.020	A BV	121026.	250.000 NG	4.37
27	225	1024	12:48	17	1.036	A BB	12858.	50.000 NG	0.87
28	107	1095	13:41	17	1.108	A BB	29814.	50.000 NG	0.87
29	115	1111	13:53	17	1.124	A BB	19426.	50.000 NG	0.87
30	237	1151	14:23	17	1.165	A BB	4334.	50.000 NG	0.87
31	196	1167	14:35	17	1.181	A BV	13991.	50.000 NG	0.87
32	196	1174	14:40	17	1.188	A VV	69037.	250.000 NG	4.37
33	164	1296	16:12	33	1.000	A BB	29582.	40.000 NG	0.70
34	162	1195	14:56	33	0.922	A BB	42774.	50.000 NG	0.87
35	138	1225	15:19	33	0.945	A BV	91795.	250.000 NG	4.37
36	163	1263	15:47	33	0.975	A BB	58160.	50.000 NG	0.87
37	152	1265	15:51	33	0.978	A BB	61288.	50.000 NG	0.87
38	165	1274	15:55	33	0.983	A BB	12553.	50.000 NG	0.87
39	138	1293	16:10	33	0.998	A BV	7351.	250.000 NG	4.37
40	154	1301	16:16	33	1.004	A BB	41937.	50.000 NG	0.87
41	184	1315	16:26	33	1.015	A BB	13168.	250.000 NG	4.37
42	109	1332	16:39	33	1.028	A BV	15921.	125.000 NG	2.19
43	168	1324	16:37	33	1.025	A BB	62927.	50.000 NG	0.87
44	165	1341	16:46	33	1.035	A BB	19082.	50.000 NG	0.87
45	149	1387	17:20	33	1.070	A VB	61800.	50.000 NG	0.87
46	204	1393	17:25	33	1.075	A BB	20654.	50.000 NG	0.87
47	166	1390	17:22	33	1.073	A BB	48116.	50.000 NG	0.87
48	138	1402	17:31	33	1.082	A VV	4454.	250.000 NG	4.37
49	198	1412	17:39	33	1.090	A BB	27798.	250.000 NG	4.37
50	169	1416	17:42	33	1.093	A BB	27546.	50.000 NG	0.87
51	77	1420	17:45	33	1.096	A VV	86299.	50.000 NG	0.87
52	188	1554	19:25	52	1.000	A BB	53250.	40.000 NG	0.70
53	248	1477	18:28	52	0.950	A BB	14735.	50.000 NG	0.87
54	284	1500	18:45	52	0.965	A BB	19621.	50.000 NG	0.87
55	266	1534	19:10	52	0.987	A BB	8498.	50.000 NG	0.87
56	178	1558	19:28	52	1.003	A BV	72033.	50.000 NG	0.87
57	178	1566	19:34	52	1.008	A VB	69324.	50.000 NG	0.87
58	149	1675	20:56	52	1.078	A VV	113122.	50.000 NG	0.87
59	202	1770	22:07	52	1.139	A BV	79426.	50.000 NG	0.87
60	240	2033	25:25	60	1.000	A BV	42503.	40.000 NG	0.70
61	202	1810	22:37	60	0.890	A BV	78159.	50.000 NG	0.87
62	NOT FOUND								
63	149	1943	24:17	60	0.956	A BV	46540.	50.000 NG	0.87
64	NOT FOUND								
65	228	2030	25:22	60	0.999	A BV	71119.	50.000 NG	0.87
66	149	2062	25:46	60	1.014	A BV	70075.	50.000 NG	0.87
67	228	2038	25:28	60	1.002	A VV	64424.	50.000 NG	0.87
68	149	2196	27:27	60	1.080	A BV	117241.	50.000 NG	0.87
69	264	2334	29:10	69	1.000	A BV	45139.	40.000 NG	0.70
70	252	2261	28:16	69	0.969	A*BV	124350.	100.000 NG	1.75
71	252	2261	28:16	69	0.969	A*BV	124350.	100.000 NG	1.75
72	252	2342	29:16	69	1.003	A BV	59520.	50.000 NG	0.87
73	276	2784	34:48	69	1.193	A*VV	16559.	50.000 NG	0.87
74	278	2806	35:04	69	1.202	A*VV	6948.	50.000 NG	0.87

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NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	276	2909	36:22	69	1.246	A*VV	6835.	50.000 NG	0.87
76	112	588	7:21	1	0.758	A BB	19524.	50.000 NG	0.87
77	99	735	9:11	17	0.744	A BB	28642.	50.000 NG	0.87
78	82	872	10:54	17	0.883	A BB	33566.	50.000 NG	0.87
79	172	1181	14:46	17	1.195	A BB	45843.	50.000 NG	0.87
80	330	1436	17:57	33	1.108	A BB	10838.	50.000 NG	0.87
81	212	1807	22:35	60	0.889	A BV	69638.	50.000 NG	0.87
82	244	1844	23:03	52	1.187	A BV	56509.	50.000 NG	0.87

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:31	1.00	0.466	1.00	50.00	50.00	0.445	0.445	1.00
3	9:12	1.00	0.948	1.00	50.00	50.00	1.276	1.276	1.00
4	9:10	1.00	0.945	1.00	50.00	50.00	1.183	1.183	1.00
5	9:19	1.00	0.960	1.00	50.00	50.00	1.001	1.001	1.00
6	9:22	1.00	0.965	1.00	50.00	50.00	0.831	0.831	1.00
7	9:37	1.00	0.991	1.00	50.00	50.00	0.881	0.881	1.00
8	9:43	1.00	1.003	1.00	50.00	50.00	0.938	0.938	1.00
9	10:04	1.00	1.039	1.00	50.00	50.00	0.539	0.539	1.00
10	10:06	1.00	1.041	1.00	50.00	50.00	0.871	0.871	1.00
11	10:22	1.00	1.070	1.00	50.00	50.00	0.778	0.778	1.00
12	10:24	1.00	1.072	1.00	50.00	50.00	0.318	0.318	1.00
13	10:40	1.00	1.101	1.00	50.00	50.00	0.883	0.883	1.00
14	10:41	1.00	1.102	1.00	50.00	50.00	0.165	0.165	1.00
15	10:43	1.00	1.104	1.00	50.00	50.00	0.420	0.420	1.00
16	10:56	1.00	1.128	1.00	50.00	50.00	0.449	0.449	1.00
17	12:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:26	1.00	0.926	1.00	50.00	50.00	0.880	0.880	1.00
19	11:37	1.00	0.940	1.00	50.00	50.00	0.204	0.204	1.00
20	11:46	1.00	0.952	1.00	50.00	50.00	0.350	0.350	1.00
21	11:58	1.00	0.969	1.00	50.00	50.00	0.528	0.528	1.00
22	12:16	1.00	0.993	1.00	250.00	250.00	0.204	0.204	1.00
23	12:07	1.00	0.981	1.00	50.00	50.00	0.312	0.312	1.00
24	12:16	1.00	0.994	1.00	50.00	50.00	0.369	0.369	1.00
25	12:23	1.00	1.003	1.00	50.00	50.00	1.139	1.139	1.00
26	12:36	1.00	1.020	1.00	250.00	250.00	0.389	0.389	1.00
27	12:46	1.00	1.036	1.00	50.00	50.00	0.207	0.207	1.00
28	13:41	1.00	1.108	1.00	50.00	50.00	0.479	0.479	1.00
29	13:53	1.00	1.124	1.00	50.00	50.00	0.312	0.312	1.00
30	14:23	1.00	1.165	1.00	50.00	50.00	0.070	0.070	1.00
31	14:35	1.00	1.181	1.00	50.00	50.00	0.225	0.225	1.00
32	14:40	1.00	1.185	1.00	250.00	250.00	0.222	0.222	1.00
33	16:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	14:56	1.00	0.922	1.00	50.00	50.00	1.157	1.157	1.00
35	15:19	1.00	0.945	1.00	250.00	250.00	0.496	0.496	1.00
36	15:47	1.00	0.975	1.00	50.00	50.00	1.573	1.573	1.00
37	15:51	1.00	0.978	1.00	50.00	50.00	1.657	1.657	1.00
38	15:55	1.00	0.983	1.00	50.00	50.00	0.339	0.339	1.00
39	16:10	1.00	0.998	1.00	250.00	250.00	0.040	0.040	1.00
40	16:16	1.00	1.004	1.00	50.00	50.00	1.135	1.135	1.00
41	16:26	1.00	1.015	1.00	250.00	250.00	0.071	0.071	1.00
42	16:37	1.00	1.028	1.00	125.00	125.00	0.172	0.172	1.00
43	16:39	1.00	1.025	1.00	50.00	50.00	1.702	1.702	1.00
44	16:46	1.00	1.035	1.00	50.00	50.00	0.516	0.516	1.00
45	17:20	1.00	1.070	1.00	50.00	50.00	1.671	1.671	1.00
46	17:25	1.00	1.075	1.00	50.00	50.00	0.559	0.559	1.00

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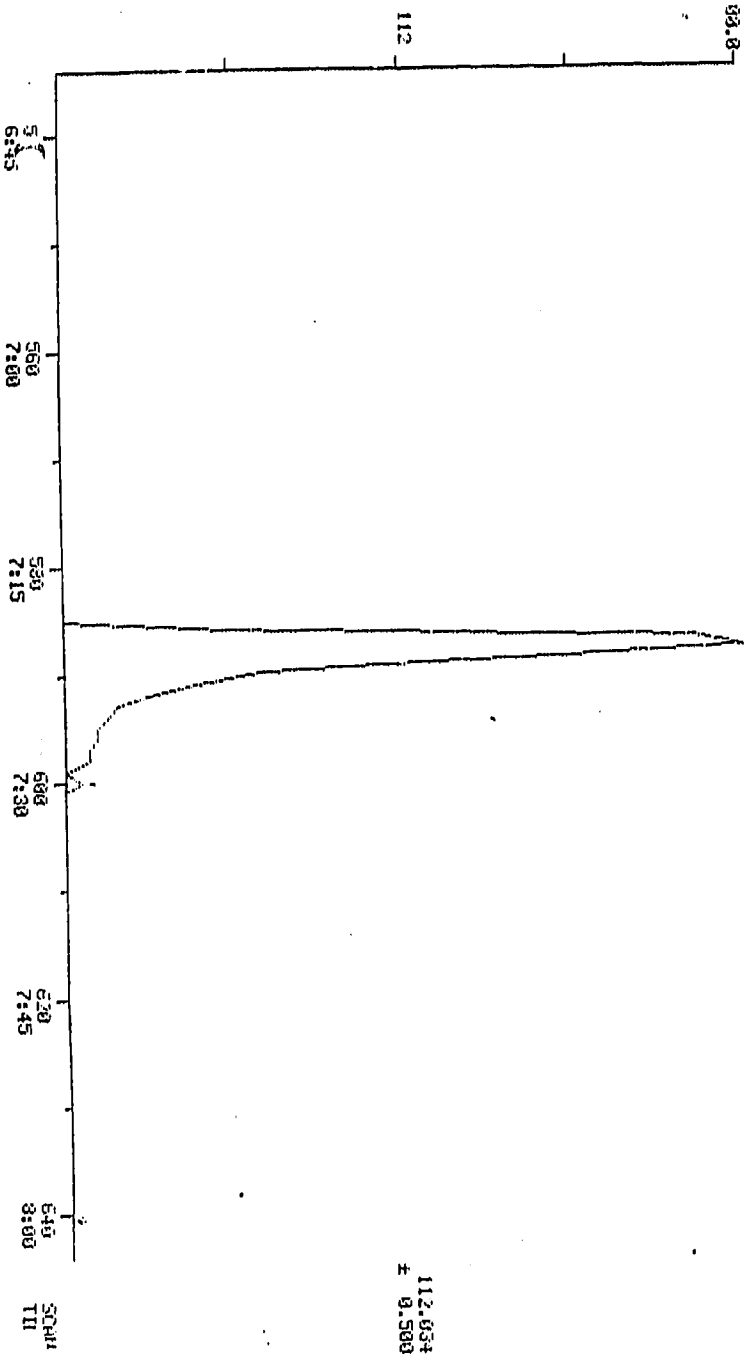
ND	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:22	1.00	1.073	1.00	50.00	50.00	1.301	1.301	1.00
48	17:31	1.00	1.082	1.00	250.00	250.00	0.024	0.024	1.00
49	17:39	1.00	1.090	1.00	250.00	250.00	0.150	0.150	1.00
50	17:42	1.00	1.093	1.00	50.00	50.00	0.745	0.745	1.00
51	17:45	1.00	1.096	1.00	50.00	50.00	2.334	2.334	1.00
52	19:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	18:28	1.00	0.950	1.00	50.00	50.00	0.221	0.221	1.00
54	18:45	1.00	0.965	1.00	50.00	50.00	0.295	0.295	1.00
55	19:10	1.00	0.987	1.00	50.00	50.00	0.128	0.128	1.00
56	19:28	1.00	1.003	1.00	50.00	50.00	1.082	1.082	1.00
57	19:34	1.00	1.008	1.00	50.00	50.00	1.041	1.041	1.00
58	20:56	1.00	1.078	1.00	50.00	50.00	1.699	1.699	1.00
59	22:07	1.00	1.139	1.00	50.00	50.00	1.193	1.193	1.00
60	25:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	22:37	1.00	0.890	1.00	50.00	50.00	1.471	1.471	1.00
62	22:42		0.890		50.00	50.00		0.009	
63	24:17	1.00	0.956	1.00	50.00	50.00	0.876	0.876	1.00
64	26:09		1.004		50.00	50.00		0.036	
65	25:22	1.00	0.999	1.00	50.00	50.00	1.339	1.339	1.00
66	25:46	1.00	1.014	1.00	50.00	50.00	1.319	1.319	1.00
67	25:28	1.00	1.002	1.00	50.00	50.00	1.213	1.213	1.00
68	27:27	1.00	1.080	1.00	50.00	50.00	2.207	2.207	1.00
69	29:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	28:16	1.00	0.969	1.00	100.00	100.00	1.102	1.102	1.00
71	28:16	1.00	0.969	1.00	100.00	100.00	1.102	1.102	1.00
72	29:16	1.00	1.003	1.00	50.00	50.00	1.055	1.055	1.00
73	34:48	1.00	1.193	1.00	50.00	50.00	0.293	0.293	1.00
74	35:04	1.00	1.202	1.00	50.00	50.00	0.123	0.123	1.00
75	36:22	1.00	1.246	1.00	50.00	50.00	0.121	0.121	1.00
76	7:21	1.00	0.758	1.00	50.00	50.00	0.659	0.659	1.00
77	9:11	1.00	0.744	1.00	50.00	50.00	0.460	0.460	1.00
78	10:54	1.00	0.883	1.00	50.00	50.00	0.539	0.539	1.00
79	14:46	1.00	1.195	1.00	50.00	50.00	0.737	0.737	1.00
80	17:57	1.00	1.108	1.00	50.00	50.00	0.293	0.293	1.00
81	22:35	1.00	0.889	1.00	50.00	50.00	1.311	1.311	1.00
82	23:03	1.00	1.187	1.00	50.00	50.00	0.849	0.849	1.00

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MASS CHROMATOGRAM
02/18/84 3:51:00
SAMPLE: IUL STD 2342 (11009)
619 2-FLUOROPHENOL (SURROGATE)

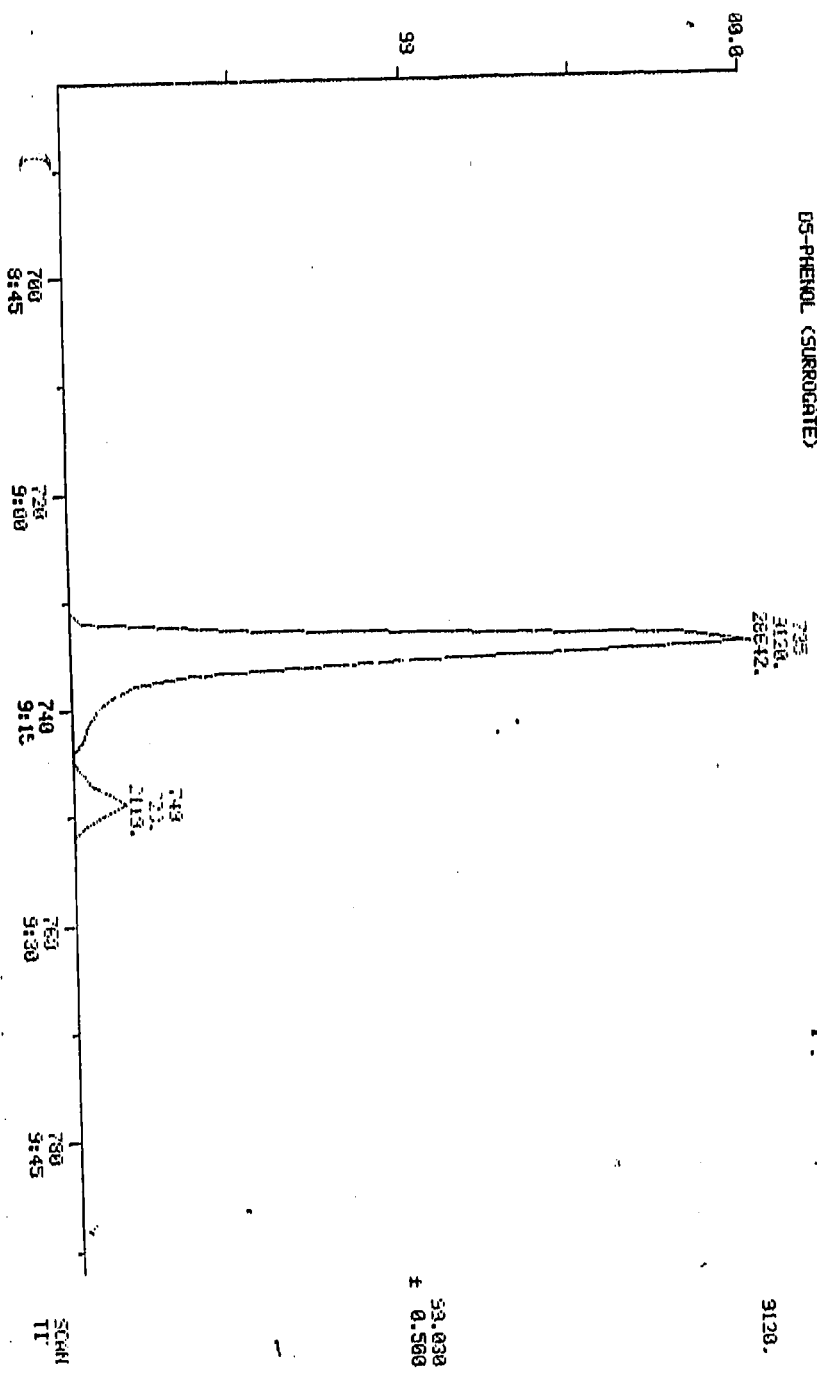
HEAD COMPUCHEM
COMPUCHEM DATA: H0340210C15 SCANS 534 TO 644



013869
000195

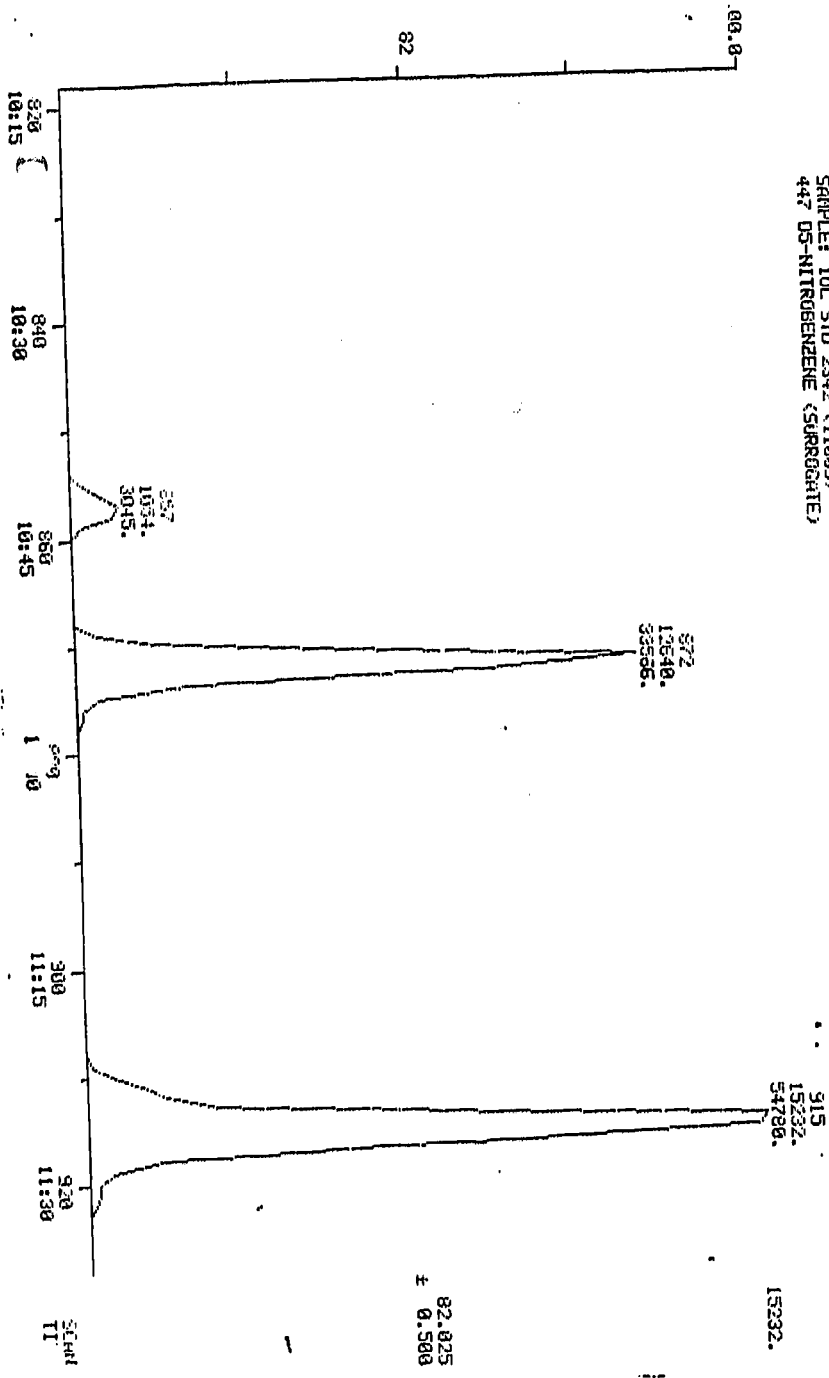
MASS CHROMATOGRAM
 02/10/84 3:51:00
 SAMPLE: IUL STD 2342 (11099)
 DS-PHENOL (SURROGATE)

HEAD COMPONEN
 COMPONEN DATA: H0340210015 SCANS 682 TO 792



MASS CHROMATOGRAM
 02/10/84 3:51:00
 SAMPLE: IUL STD 2342 (11009)
 447 05-NITROBENZENE (SURROGATE)

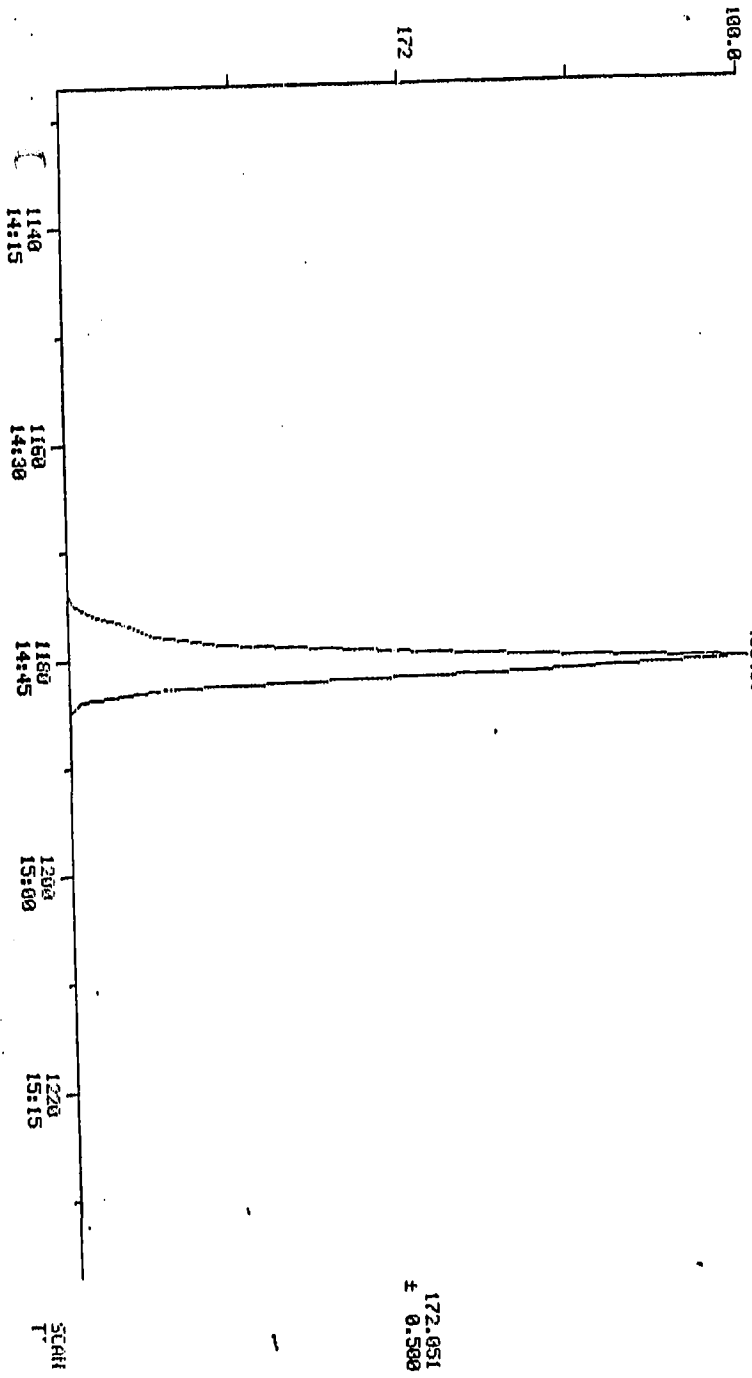
HEAD COMPUTER
 COMPUTER DATA: H6549210015 SCANS 818 TO 928



013871
 005197

MASS CHROMATOGRAM
02/10/84 3:51:08
SAMPLE: IUL STD 2342 (11083)
448 2-FLUOROBIPHENYL (SURROGATE)

HEAD COMPUCHEM
COMPUCHEM DATA: H6340210P15 SCANS 1127 TO 1237



1131
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45845.

16384.

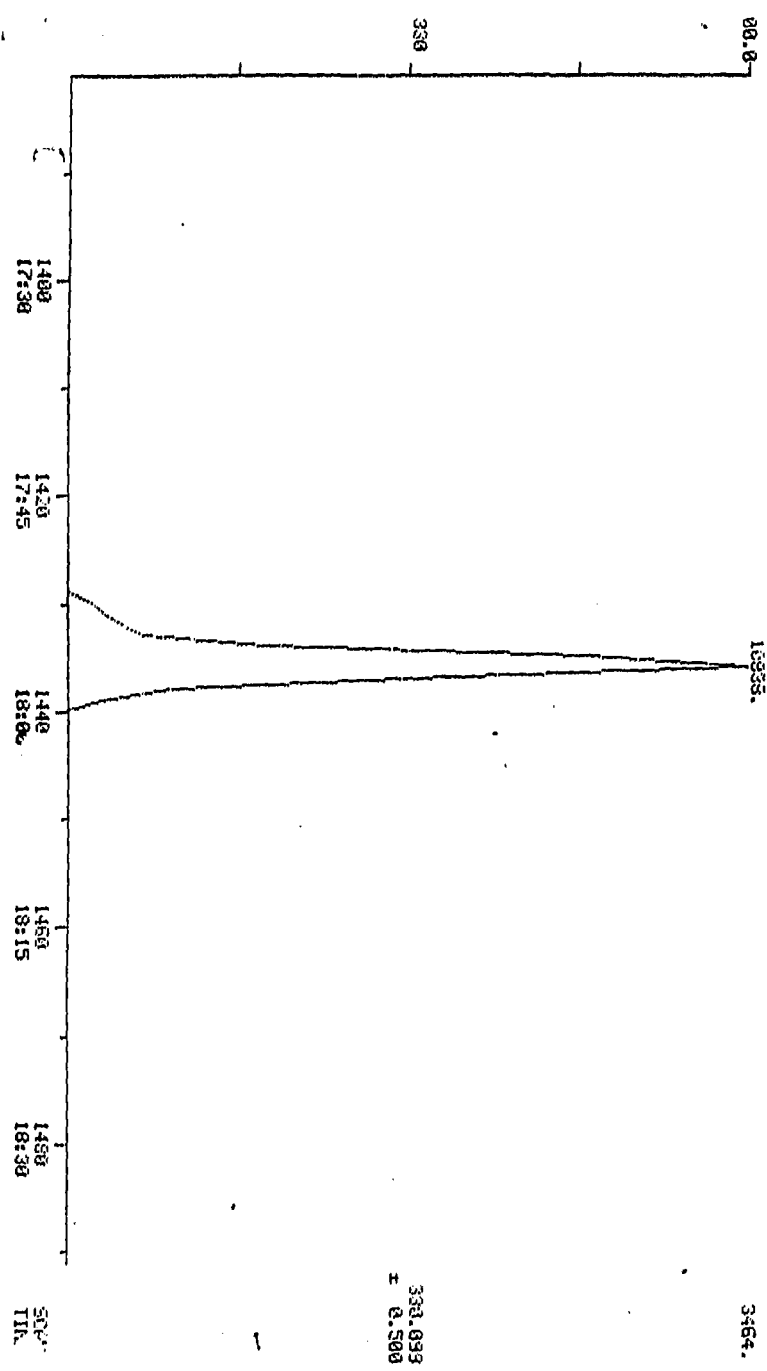
172.051
± 0.500

003188

013872

MASS CHROMATOGRAM
02/10/84 3:51:00
SAMPLE: IUL STD 2342 (11009)
TRIBROMOPHENOL (SURROGATE)

NEED COMPUTHER!
COMPUHER DATA: H02A0210T15 SCANS 1391 TO 1491

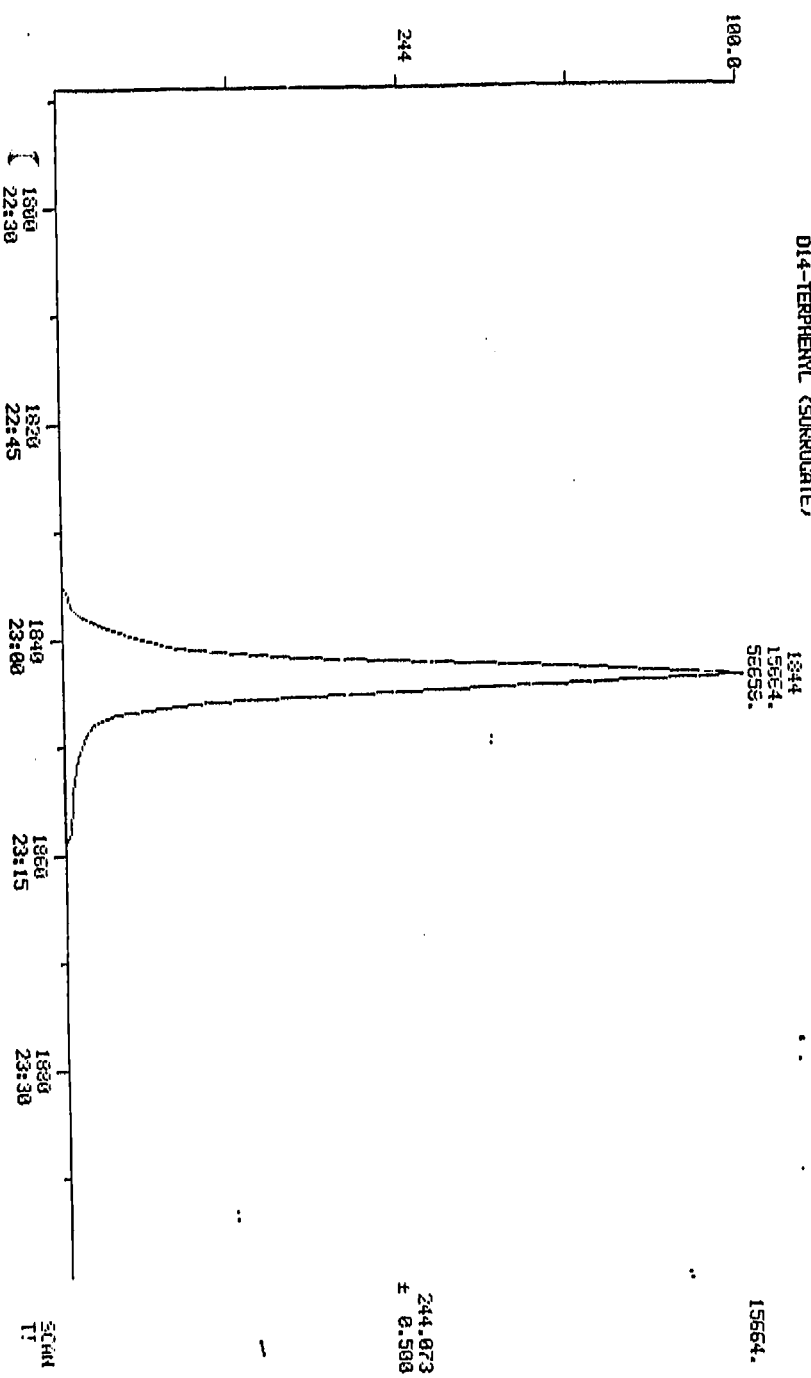


013873

MASS CHROMATOGRAM
02/10/84 3:51:00
SAMPLE: IUL STD 2342 (11003)
D14-TERPHENYL (SURROGATE)

HEAD CONFUCHEN

CONFUCHEN DATA: H0340210C15 SCAN5 1789 TO 1893



1844
1566.4
5655.

1566.4

244.073
± 0.500

SCAN
T

01587501

29

Mead ComputChem GC/MS Analysis Log

Press Hard, Multiple Copies

Initial Time of Tune 3:29
Time Tune Expires 11:29

Skittle (A) _____ (B) ✓
Date 2/10/84
Analysis Type ESD 7

00018877

Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
		1.6L	754		151	11005
		1.6L	754		151	STD 2347 (11009)
		1.6L	754		151	Std 25 (10955)
		1.6L	754		151	Std 75 (10955)
		1.6L	754		151	Std 75 (10955)
		1.6L	754		151	Std 25 (10955)
		1.0µL	657		151	10955 #033
		1.0µL	659		151	10955 #033
		1.0µL	659		151	10955 #033
		2.3µL				
		1.2745				

2/10/84 AP

FISC "CHECK STAMPS" TOLLATION

21380

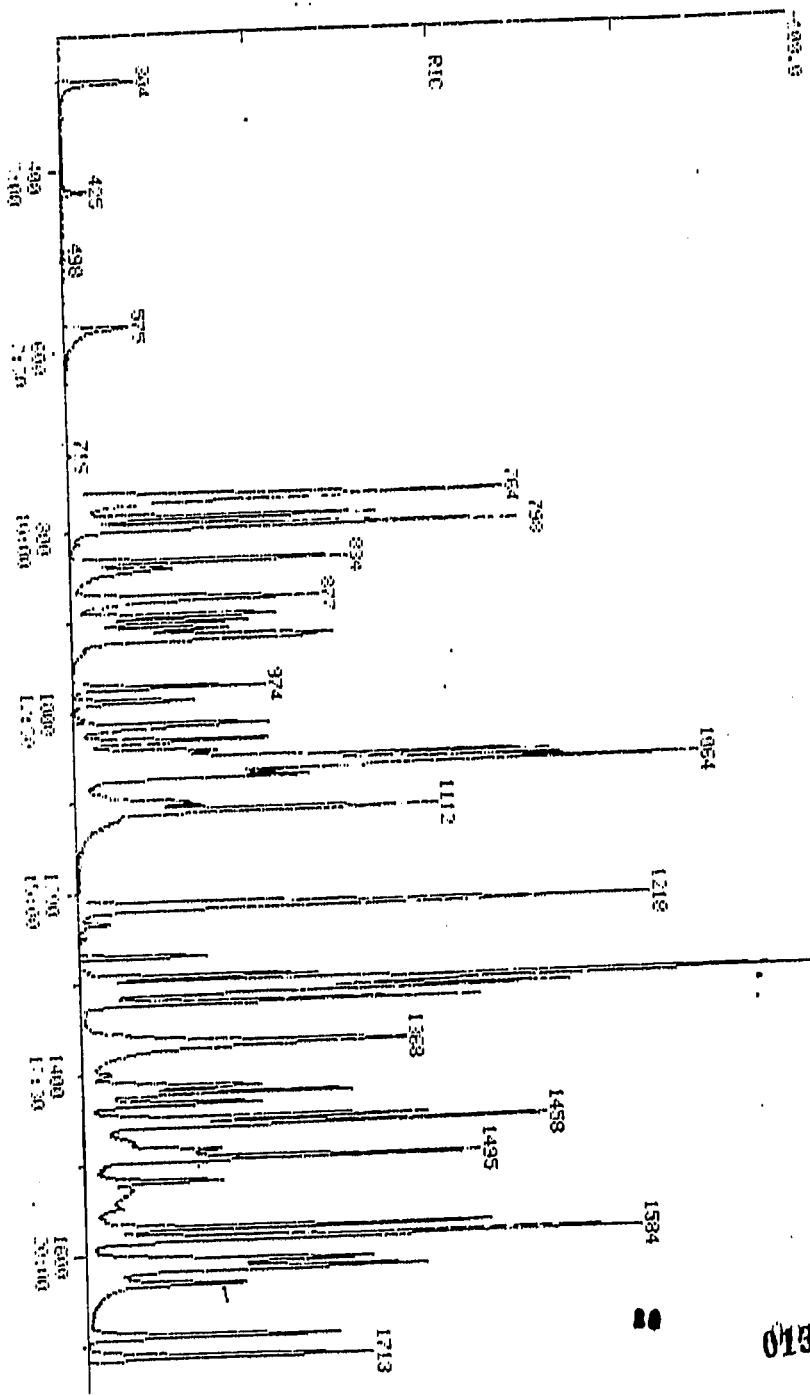
POSTED

01/09/84
 STANDARD FILE NAME H5840210C15
 DATE 2/10/84
 OPERATOR 754
 013878

CHECK NUMBER	← THREE POINT MULTIPOINT →			MULTIPOINT AVERAGE RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	NO. OF RESPONSE FACTOR	NO. OF RESPONSE FACTOR	NO. OF RESPONSE FACTOR				
1-1038	1.038	0.932	0.872	0.947	0.938	< 1	3 DIFFERENCE < 1%
1-1235	1.235	1.185	1.149	1.189	1.139	4	3 DIFFERENCE < 1%
1-1218	1.218	1.155	1.142	1.172	1.135	3	3 DIFFERENCE < 1%
1-1030	1.030	1.014	0.999	1.014	1.082	7	3 DIFFERENCE < 1%
1-1361	1.361	1.093	1.144	1.331	1.213	9	3 DIFFERENCE < 1%
1-1088	1.088	0.916	1.000	0.944	1.055	6	3 DIFFERENCE < 1%
1-0935	0.935	0.955	0.971	0.954	0.680	8	3 DIFFERENCE < 1%
1-1694	1.694	1.713	1.679	1.699	1.679	0	3 DIFFERENCE < 1%
1-1694	✓	✓	✓	✓			Acceptable Only
1-1694	✓	✓	✓	✓			RETRACTOR ONLY

RID
02/12/84 17:28:26
SAMPLE: IOL DETPP 1180342342-QH#14 50MG

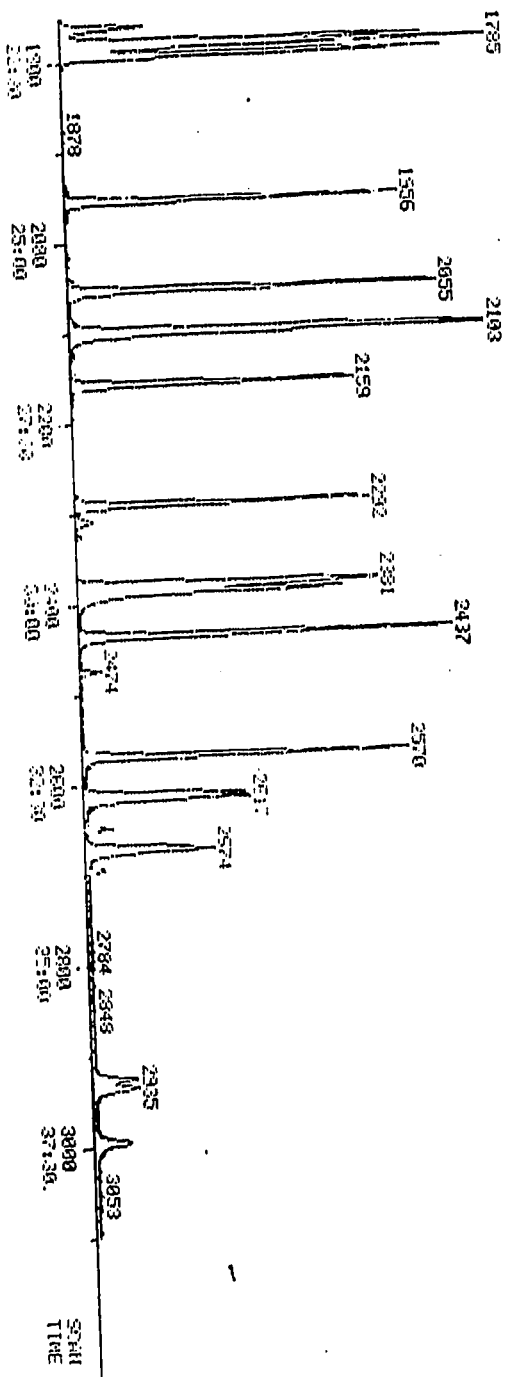
HEAD CONFUCHEM
CONFUCHEM DATA: H0348213E14 SCANS 250 TO 1750
DUT OF 250 TO 3100



0138310

RIC
 92/12/84 17:09:08
 SAMPLE: IUL DFTP 11899C234210H14 58MG

HEAD CONFUCHEM
 CONFUCHEM DATA: HG340212B14 SCANS 1750 TO 3100
 OUT OF 250 TO 3100



005206

013888

PROCEDURE: RK
 DATA FILE: HGB40212B14
 REFERENCE: FSCC7
 METHOD: FSCC7
 REPORT: FSCC7S1

DIAGNOSTIC REPORT

2/12/84 18 07 :

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

STANDARDS				PLUS UNKNOWNS				LIST NAMES	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
6	6	1	35	54	44	2	136	FSCC7S1/FSCC7U1	
6	6	1	35	34	25	1	68	FSCC7S2/FSCC7U2	

82 COMPOUNDS PROCESSED, 63 FOUND

MO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TDP	DELTA	PEAKS
1	C1	1	-789	775	775		1	980		150	795		
2	C2	1	-1054	1060	1060		1	987		136	1060		
3	C3	1	-1446	1452	1452		1	994		164	1451		-1
4	C4	1	-1774	1780	1780		1	979		188	1780		
5	C5	1	-2377	2383	2383		1	905		240	2383		
6	C6	1	-2663	2670	2670		1	933		264	2670		
7	C1	2	-293	299	304	5	1	994		74	304		
8	C1	3	-756	762						94	762		
9	C1	4	-759	765						93	764		
10	C1	5	-759	765						93	764		
11	C1	6	-759	765						128	765		
12	C1	7	-780	786	786		1	990		146	786		
13	C1	8	-792	798	798		1	984		146	798		
14	C1	9	-836	842	842		1	989		108	842		
15	C1	10	-828	834	834		1	988		146	834		
16	C1	11	-871	877	877		1	987		108	877		
17	C1	12	-868	874						121	873		
18	C1	13	-903	909	910	1	1	994		108	910		
19	C1	14	-896	902	902		1	994		130	902		
20	C1	15	-888	894	894		1	985		117	894		
21	C1	16	-915	921	920	-1	1	980		123	921		1
22	C2	2	-967	973	973		1	993		82	974		1
23	C2	3	-983	989	989		1	990		139	989		
24	C2	4	-1010	1016	1015	-1	1	993		132	1015		
25	C2	5	-1024	1030	1033	-2	1	970		93	1033		
26	C2	6	-1066	1072	1070	-2	2	990		105	1070		
27	C2	7	-1041	1047	1045	-2	1	990		162	1045		
28	C2	8	-1049	1055	1055		1	993		180	1055		
29	C2	9	-1059	1065	1064	-1	1	986		129	1064		
30	C2	10	-1095	1101	1105	4	1	993		127	1105		
31	C2	11	-1106	1112	1112		1	986		225	1112		
32	C2	12	-1207	1213	1213		1	960		107	1213		
33	C2	13	-1212	1218	1218		1	972		115	1218		
34	C2	14	-1266	1272	1271	-1	1	978		237	1271		
35	C2	15	-1288	1294	1294		1	993		196	1294		
36	C2	16	-1297	1303	1303		1	991		196	1303		
37	C3	2	-1318	1324	1324		1	993		162	1324		
38	C3	3	-1362	1368	1368		1	993		138	1368		
39	C3	4	-1417	1423	1423		1	987		163	1423		
40	C3	5	-1410	1416	1415	-1	1	984		152	1415		
41	C3	6	-1428	1434	1434		1	986		165	1434		
42	C3	7	-1451	1457						138			
43	C3	8	-1453	1459	1458	-1	1	991		154	1458		
44	C3	9	-1479	1485	1485		1	953		184	1485		
45	C3	10	-1520	1526	1529	3	1	960		109	1529		
46	C3	11	-1489	1495	1495		1	970		168	1495		
47	C3	12	-1513	1519	1519		1	994		165	1519		

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13881

49	C3	14	-1578	1584							166	1572	
50	C3	15	-1566	1572							138	1626	3
51	C3	16	-1620	1626	1623	-3	1	961			198	1608	
52	C3	17	-1602	1608	1608		1	988			167	1615	
53	C3	18	-1609	1615							77	1617	
54	C3	19	-1611	1617	1617		1	984			248	1691	
55	C4	2	-1685	1691	1691		1	987			284	1713	
56	C4	3	-1708	1714	1713	-1	1	987			256	1762	
57	C4	4	-1756	1762	1752		1	986			178	1785	
58	C4	5	-1779	1785	1785		1	987			178	1795	
59	C4	6	-1789	1795	1795		1	989			149	1956	
60	C4	7	-1950	1956	1956		1	986			202	2055	
61	C4	8	-2049	2055	2055		1	983			202	2103	
62	C5	2	-2096	2102	2103	1	1				184		
63	C5	3									149	2292	
64	C5	4	-2286	2292	2292		1	986			252		
65	C5	5									228	2380	
66	C5	6	-2373	2379							149	2437	
67	C5	7	-2432	2438							228	2389	
68	C5	8	-2383	2389	2389		1	961			149	2570	
69	C5	9	-2564	2570	2570		1	987			252	2612	
70	C6	2	-2606	2612	2612		1	951			252	2616	
71	C6	3	-2610	2616							252	2674	
72	C6	4	-2668	2674							276		
73	C6	5	-2915	2921							278		
74	C6	6	-2925	2931							276		
75	C6	7	-2983	2989							112	575	
76	C7	2	-566	572	375	3	1	987			99	760	
77	C7	3	-754	760	760		1	913			82	917	
78	C7	4	-911	917	917		1	988			172	1312	
79	C7	5	-1306	1312	1312		1	990			330	1633	
80	C7	6	-1627	1633	1633		1	955			212	2099	
81	C7	7	-2093	2099	2099		1	941			244	2158	-1
82	C7	8	-2153	2159	2159		1	988					

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QUANTITATION REPORT FILE: HGB40212B14

DATA: HGB40212B14.T1
 02/12/84 17:08:00
 SAMPLE: 1UL DFTPP 11009(2342)QNH14 5ONG
 SUBMITTED BY: 14 ANALYST: 755

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

NO	NAME
1	*D4-1,4-DICHLOROBENZENE (IS)
2	441 N-NITROSODIMETHYAMINE
3	610 PHENOL
4	473 ANILINE
5	411 BIS(2-CHLOROETHYL)ETHER
6	601 2-CHLOROPHENOL
7	421 1,3-DICHLOROBENZENE
8	422 1,4-DICHLOROBENZENE
9	474 BENZYL ALCOHOL
10	420 1,2-DICHLOROBENZENE
11	620 2-METHYLPHENOL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSO-DI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	440 NITROBENZENE
17	*440 DB-NAPHTHALENE (IS)
18	438 ISOPHORONE
19	606 2-NITROPHENOL
20	603 2,4-DIMETHYLPHENOL
21	410 BIS(2-CHLOROETHOXY)METHANE
22	629 BENZOIC ACID
23	602 2,4-DICHLOROPHENOL
24	446 1,2,4-TRICHLOROBENZENE
25	439 NAPHTHALENE
26	475 4-CHLOROANILINE
27	434 HEXACHLOROBUTADIENE
28	608 P-CHLORO-M-CRESOL
29	477 2-METHYLNAPHTHALENE
30	435 HEXACHLOROCYCLOPENTADIENE
31	611 2,4,6-TRICHLOROPHENOL
32	626 2,4,5-TRICHLOROPHENOL
33	*D10-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	425 DIMETHYLPHTHALATE
37	402 ACENAPHTHYLENE
38	428 2,6-DINITROTOLUENE
39	478 2-NITROANILINE
40	401 ACENAPHTHENE
41	605 2,4-DINITROPHENOL
42	607 4-NITROPHENOL
43	476 DIBENZOFURAN
44	427 2,4-DINITROTOLUENE
45	424 DIETHYLPHTHALATE
46	417 4-CHLOROPHENYL PHENYL ETHER

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NO NAME
 47 432 FLUORENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-O-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSO)
 51 430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE)
 52 *467 D10-PHENANTHRENE (IS)
 53 414 4-BROMOPHENYL PHENYL ETHER
 54 433 HEXACHLOROBENZENE
 55 609 PENTACHLOROPHENOL
 56 444 PHENANTHRENE
 57 403 ANTHRACENE
 58 426 DI-N-BUTYLPHthalate
 59 431 FLUORANTHENE
 60 *459 D12-CHRYSENE (IS)
 61 445 PYRENE
 62 404 BENZIDENE
 63 415 BUTYLBENZYLPHthalate
 64 423 3,3'-DICHLOROBENZIDINE
 65 405 BENZO(A)ANTHRACENE
 66 413 BIS(2-ETHYLHEXYL)PHthalate
 67 418 CHRYSENE
 68 429 DI-N-OCTYLPHthalate
 69 *D12-BENZO(A)PYRENE (IS)
 70 407 BENZO(B)FLUORANTHENE
 71 409 BENZO(K)FLUORANTHENE
 72 406 BENZO(A)PYRENE
 73 437 INDENO(1,2,3-C,D)PYRENE
 74 419 DIBENZO(A,H)ANTHRACENE
 75 408 BENZO(G,H,I)PERYLENE
 76 619 2-FLUOROPHENOL (SURROGATE)
 77 D5-PHENOL (SURROGATE)
 78 447 D5-NITROBENZENE (SURROGATE)
 79 448 2-FLUOROBIPHENYL (SURROGATE)
 80 TRIBROMOPHENOL (SURROGATE)
 81 D10-PYRENE (SURROGATE)
 82 D14-TERPHENYL (SURROGATE)

M-B 2/12/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	%TOT
1	150	795	9:56	1	1.000	A VB	33853.	40.000 NG	0.76
2	74	304	9:48	1	0.382	A BV	13445.	45.852 NG	0.87
3	94	762	9:31	1	0.958	A BV	32874.	46.609 NG	0.88
4	93	764	9:33	1	0.961	A BV	31507.	43.131 NG	0.82
5	93	764	9:33	1	0.961	A BV	31507.	40.537 NG	0.77
6	128	765	9:34	1	0.962	A BV	29175.	48.895 NG	0.93
7	146	786	9:49	1	0.789	A BV	35605.	47.727 NG	0.94
8	146	798	9:58	1	1.004	A VB	39124.	50.604 NG	0.96
9	108	842	10:31	1	1.059	A BV	13361.	51.192 NG	0.97
10	146	834	10:25	1	1.049	A BV	35886.	51.540 NG	0.98
11	108	877	10:58	1	1.103	A VV	23311.	49.799 NG	0.94
12	121	873	10:55	1	1.098	A*BB	9232.	50.728 NG	0.96
13	108	910	11:22	1	1.145	A VV	26400.	55.676 NG	1.06
14	130	902	11:16	1	1.135	A BB	5340.	57.257 NG	1.09
15	117	894	11:10	1	1.125	A BB	12375.	52.100 NG	0.99
16	123	921	11:31	1	1.158	A BV	16364.	52.446 NG	0.99
17	136	1060	11:15	17	1.000	A BB	66323.	40.000 NG	0.76
42 (18)	82	974	12:10	17	0.919	A BV	44245777.	47.070 NG	0.89

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NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%IDT	
19	139	989	12:22	17	0.933	A BV	13671.	55.206 NG	1.05	
20	122	1015	12:41	17	0.958	A BV	22609.	46.274 NG	0.88	
21	93	1033	12:55	17	0.975	A BV	32846.	46.915 NG	0.89	
216	22	105	13:22	17	1.009	A VV	65170 (27485)	72.497 NG	1.75	
27	162	1045	13:04	17	0.986	A BV	15482.	34.895 NG	0.66	
24	180	1055	13:11	17	0.995	A BV	30754.	50.834 NG	0.96	
25	128	1064	13:18	17	1.004	A BV	93397.	48.821 NG	0.93	
26	127	1105	13:49	17	1.042	A*BV	39937.	255.918 NG	4.85	
27	225	1112	13:54	17	1.049	A BB	15971.	54.626 NG	1.04	
28	107	1213	15:10	17	1.144	A BV	27694.	48.945 NG	0.93	
29	115	1218	15:13	17	1.149	A BB	22200.	50.548 NG	0.96	
2,14	30	237	15:53	17	1.199	A BB	7909.	65.613 NG	1.24	
31	196	1294	16:10	17	1.221	A BV	16511.	55.789 NG	1.06	
32	196	1303	16:17	17	1.229	A VV	90865.	277.577 NG	5.26	
33	164	1451	18:08	33	1.000	A BB	36846.	40.000 NG	0.76	
34	162	1324	16:33	33	0.912	A BV	55748.	49.152 NG	0.93	
35	138	1368	17:06	33	0.943	A BV	84761.	243.347 NG	4.61	
36	163	1423	17:47	33	0.981	A BB	62393.	49.907 NG	0.75	
37	152	1415	17:41	33	0.975	A BV	43183.	43.257 NG	0.82	
38	165	1434	17:55	33	0.988	A VB	12203.	52.991 NG	1.00	
37	25	NDT	FOUND	1479			4369			
40	154	1458	18:13	33	1.005	A BB	52304.	19.097 NG	0.93	
41	184	1485	18:34	33	1.023	A BV	15354.	311.514 NG	5.90	
3,10	42	109	15:31	33	1.055	A*BV	8447.	80.827 NG	1.52	
43	163	1495	19:41	33	1.030	A BB	78668.	47.724 NG	0.94	
44	165	1519	18:59	33	1.047	A BB	15826.	54.307 NG	1.03	
45	149	1584	19:48	33	1.092	A BV	64863.	49.974 NG	0.95	
46	204	1583	19:47	33	1.091	A BB	25413.	52.436 NG	0.99	
47	166	1572	19:39	33	1.083	A BV	38186.	49.461 NG	0.94	
16	18	138	16:26	20:19	33	1.121	A*VV	74427578.	355.031 NG	6.73
17	19	198	16:08	20:06	33	1.108	A VV	27057.2718300.	132 NG	5.69
50	169	1615	20:11	33	1.113	A BB	15529.	50.891 NG	0.96	
51	77	1617	20:13	33	1.114	A VV	61717.	46.164 NG	0.87	
52	188	1780	22:15	52	1.000	A BV	62458.	40.000 NG	0.76	
53	248	1691	21:08	52	0.950	A BB	15241.	55.931 NG	1.08	
54	284	1713	21:25	52	0.962	A BB	21042.	58.964 NG	1.12	
55	266	1762	22:01	52	0.990	A BB	8658.	72.343 NG	1.37	
56	178	1785	22:19	52	1.003	A BV	83729.	51.490 NG	0.98	
57	178	1795	22:26	52	1.008	A VB	78128.	49.435 NG	0.94	
58	149	1956	24:27	52	1.099	A VV	104942.	48.480 NG	0.92	
59	202	2055	25:41	52	1.154	A VV	79516.	51.543 NG	0.98	
60	240	2383	29:47	60	1.000	A BB	30623.	40.000 NG	0.76	
61	202	2103	26:17	60	0.883	A VV	80520	46.474 NG	0.88	
62	NDT	FOUND	00							
63	149	2292	28:39	60	0.962	A VV	37536.	44.510 NG	0.84	
64	NDT	FOUND	00							
65	228	2380	29:45	60	0.999	A BV	48760.	50.534 NG	0.96	
66	149	2437	30:28	60	1.023	A BV	58761.	44.537 NG	0.84	
67	228	2389	29:52	60	1.003	A VV	43571.	46.671 NG	0.88	
68	149	2570	32:07	60	1.078	A VV	88463.	44.854 NG	0.85	
69	264	2670	32:22	69	1.000	A BV	17422.	40.000 NG	0.76	
70	252	2612	32:39	69	0.978	A BV	28495.	45.360 NG	0.86	
71	252	2616	32:42	69	0.980	A VV	27360.	48.739 NG	0.92	
72	252	2674	32:25	69	1.001	A BV	22420.	48.560 NG	0.92	
73	NDT	FOUND	12926				14170			
74	NDT	FOUND	2135				10517			

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NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
76	112	575	7:11	1	0.723	A BV	17355.	43.812 NG	0.83
77	99	760	9:30	17	0.717	A BV	27517.	49.111 NG	0.93
78	82	917	11:28	17	0.865	A BV	30057.	48.551 NG	0.92
79	172	1312	16:24	17	1.238	A BB	60936.	51.053 NG	0.97
80	330	1633	20:25	33	1.125	A BB	8658.	67.772 NG	1.28
81	212	2099	26:14	60	0.881	A BV	72953.	47.074 NG	0.89
82	244	2158	26:58	52	1.212	A BV	52741.	54.087 NG	1.03

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:52	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:40	1.04	0.371	1.03	45.85	50.00	0.318	0.346	0.92
3	9:27	1.01	0.958	1.00	46.61	50.00	0.777	0.833	0.93
4	9:29	1.01	0.962	1.00	43.13	50.00	0.745	0.863	0.86
5	9:29	1.01	0.962	1.00	40.54	50.00	0.745	0.918	0.81
6	9:29	1.01	0.962	1.00	48.89	50.00	0.689	0.705	0.98
7	9:45	1.01	0.989	1.00	49.73	50.00	0.841	0.846	0.99
8	9:54	1.01	1.004	1.00	50.60	50.00	0.925	0.914	1.01
9	10:27	1.01	1.060	1.00	51.19	50.00	0.316	0.308	1.02
10	10:21	1.01	1.049	1.00	51.94	50.00	0.848	0.823	1.03
11	10:53	1.01	1.104	1.00	49.80	50.00	0.551	0.553	1.00
12	10:51	1.01	1.100	1.00	50.73	50.00	0.218	0.215	1.01
13	11:17	1.01	1.144	1.00	55.68	50.00	0.624	0.560	1.11
14	11:12	1.01	1.136	1.00	57.26	50.00	0.126	0.110	1.15
15	11:06	1.01	1.125	1.00	52.10	50.00	0.292	0.281	1.04
16	11:26	1.01	1.160	1.00	52.45	30.00	0.387	0.369	1.05
17	13:10	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	12:05	1.01	0.917	1.00	47.09	50.00	0.582	0.586	0.94
19	12:17	1.01	0.933	1.00	55.21	50.00	0.165	0.149	1.10
20	12:37	1.00	0.958	1.00	46.27	50.00	0.273	0.295	0.93
21	12:52	1.00	0.976	1.00	46.91	50.00	0.396	0.422	0.94
22	13:19	1.00	1.011	1.00	92.50	230.00	0.066	0.179	0.37
23	13:01	1.00	0.988	1.00	34.89	50.00	0.199	0.285	0.70
24	13:07	1.01	0.995	1.00	50.83	50.00	0.371	0.365	1.02
25	13:14	1.00	1.005	1.00	48.82	50.00	1.127	1.154	0.98
26	13:41	1.01	1.039	1.00	255.92	249.99	0.096	0.094	1.02
27	13:49	1.01	1.049	1.00	54.63	50.00	0.193	0.176	1.09
28	15:05	1.00	1.145	1.00	48.94	50.00	0.334	0.341	0.98
29	15:09	1.00	1.150	1.00	50.55	50.00	0.268	0.265	1.01
30	15:49	1.00	1.201	1.00	65.61	50.00	0.095	0.073	1.31
31	16:06	1.00	1.222	1.00	55.79	50.00	0.199	0.178	1.12
32	16:13	1.00	1.231	1.00	277.98	249.99	0.219	0.197	1.11
33	18:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	16:28	1.00	0.911	1.00	49.15	50.00	1.210	1.231	0.98
35	17:01	1.00	0.942	1.00	243.35	249.99	0.368	0.378	0.97
36	17:43	1.00	0.980	1.00	49.91	50.00	1.355	1.357	1.00
37	17:37	1.00	0.975	1.00	43.26	50.00	0.938	1.084	0.87
38	17:51	1.00	0.988	1.00	52.99	50.00	0.265	0.250	1.06
39	18:08		1.003			249.99		0.010	
40	18:10	1.00	1.005	1.00	49.10	50.00	1.136	1.157	0.98
41	18:29	1.00	1.023	1.00	311.51	249.99	0.067	0.054	1.25
42	19:00	1.01	1.051	1.00	80.83	125.00	0.047	0.073	0.65
43	18:37	1.00	1.030	1.00	49.72	50.00	1.708	1.718	0.99
44	18:55	1.00	1.046	1.00	54.31	50.00	0.344	0.316	1.09
45	19:44	1.00	1.092	1.00	49.97	50.00	1.408	1.409	1.00
46	19:43	1.00	1.091	1.00	52.44	50.00	0.552	0.526	1.05

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NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	19:34	1.00	1.083	1.00	49.46	50.00	1.263	1.277	0.99
48	20:15	1.00	1.120	1.00	359.03	249.99	0.033	0.023	1.42
49	20:01	1.00	1.108	1.00	300.13	249.99	0.129	0.107	1.20
50	20:07	1.00	1.113	1.00	50.89	50.00	0.337	0.331	1.02
51	20:08	1.00	1.114	1.00	46.16	50.00	1.340	1.451	0.92
52	22:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	21:04	1.00	0.950	1.00	56.93	50.00	0.202	0.177	1.14
54	21:21	1.00	0.963	1.00	58.96	50.00	0.270	0.229	1.18
55	21:57	1.00	0.990	1.00	72.34	50.00	0.111	0.077	1.45
56	22:14	1.00	1.003	1.00	51.49	50.00	<u>1.072</u>	1.041	1.03
57	22:22	1.00	1.008	1.00	49.43	50.00	1.001	1.012	0.99
58	24:22	1.00	1.099	1.00	48.48	50.00	<u>1.344</u>	1.386	0.97
59	25:37	1.00	1.155	1.00	51.54	50.00	<u>1.019</u>	0.988	1.03
60	27:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	26:12	1.00	0.882	1.00	46.47	50.00	2.104	2.263	0.93
62	26:59		0.908			50.00		0.010	
63	28:34	1.00	0.962	1.00	44.51	50.00	0.981	1.102	0.89
64	30:43		1.007			50.00		0.018	
65	29:40	1.00	0.998	1.00	50.53	50.00	1.274	1.260	1.01
66	30:24	1.00	1.023	1.00	44.56	50.00	1.535	1.723	0.89
67	29:47	1.00	1.003	1.00	46.67	50.00	<u>1.138</u>	1.219	0.93
68	32:03	1.00	1.079	1.00	44.85	50.00	2.311	2.376	0.90
69	33:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	32:34	1.00	0.979	1.00	45.36	50.00	1.308	1.442	0.91
71	32:37	1.00	0.980	1.00	48.74	50.00	1.256	1.289	0.97
72	33:21	1.00	1.002	1.00	48.56	50.00	<u>1.030</u>	1.060	0.97
73	36:26		1.095			50.00		0.973	
74	36:34		1.098			50.00		0.404	
75	37:17		1.120			50.00		0.456	
76	7:04	1.02	0.717	1.01	43.81	50.00	0.410	0.468	0.88
77	9:25	1.01	0.715	1.00	49.11	50.00	0.332	0.338	0.98
78	11:23	1.01	0.864	1.00	48.55	50.00	0.363	0.373	0.97
79	16:19	1.00	1.239	1.00	51.05	50.00	0.735	0.720	1.02
80	20:20	1.00	1.125	1.00	67.77	50.00	0.188	0.139	1.36
81	26:10	1.00	0.921	1.00	47.07	50.00	1.946	2.024	0.94
82	26:55	1.00	1.214	1.00	54.09	50.00	0.676	0.624	1.08

013887
005218

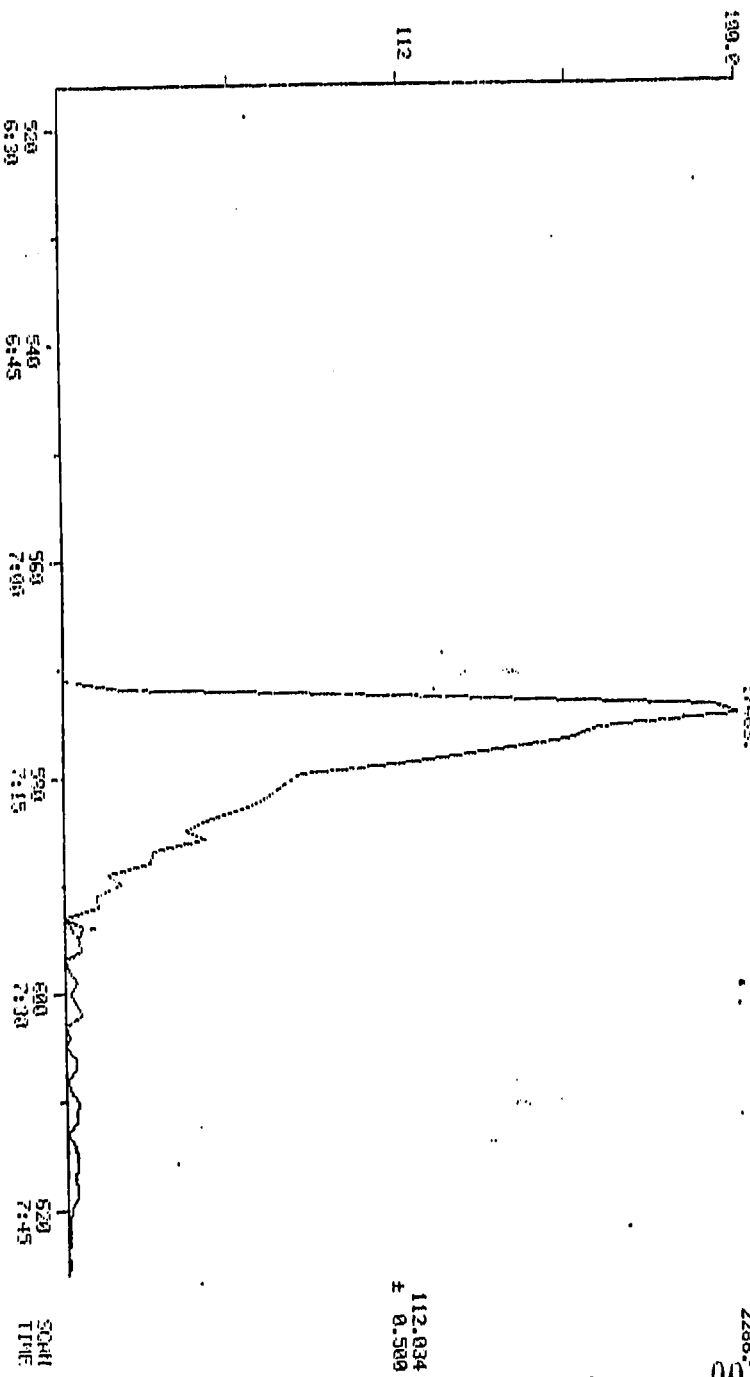
MASS CHROMATOGRAM
82-12-84 17:28:28
SAMPLE: IUL DTTPP 11899(2342)GN#14 SEHG
619 2-FLUOROPHENOL (SUPRODATE)

HEAD COMPONENT
COMPONENT DATA: H0340212814 SCANS 516 TO 636

013888

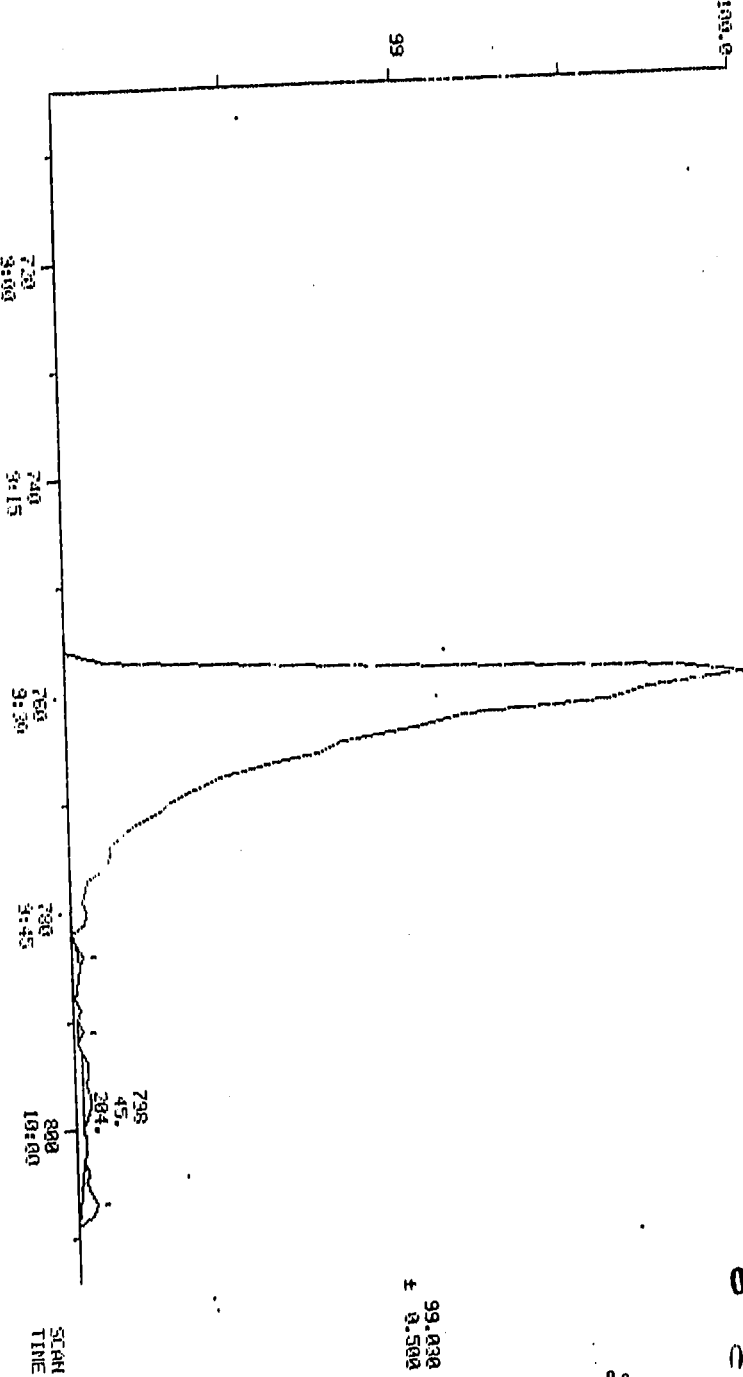
005214

2288



MASS CHROMATOGRAM
82-12-84 17:58:58
SAMPLE: 1UL DETER 11003-0342-01#14 SONG
05-PHENOL (SYNTHESIZED)

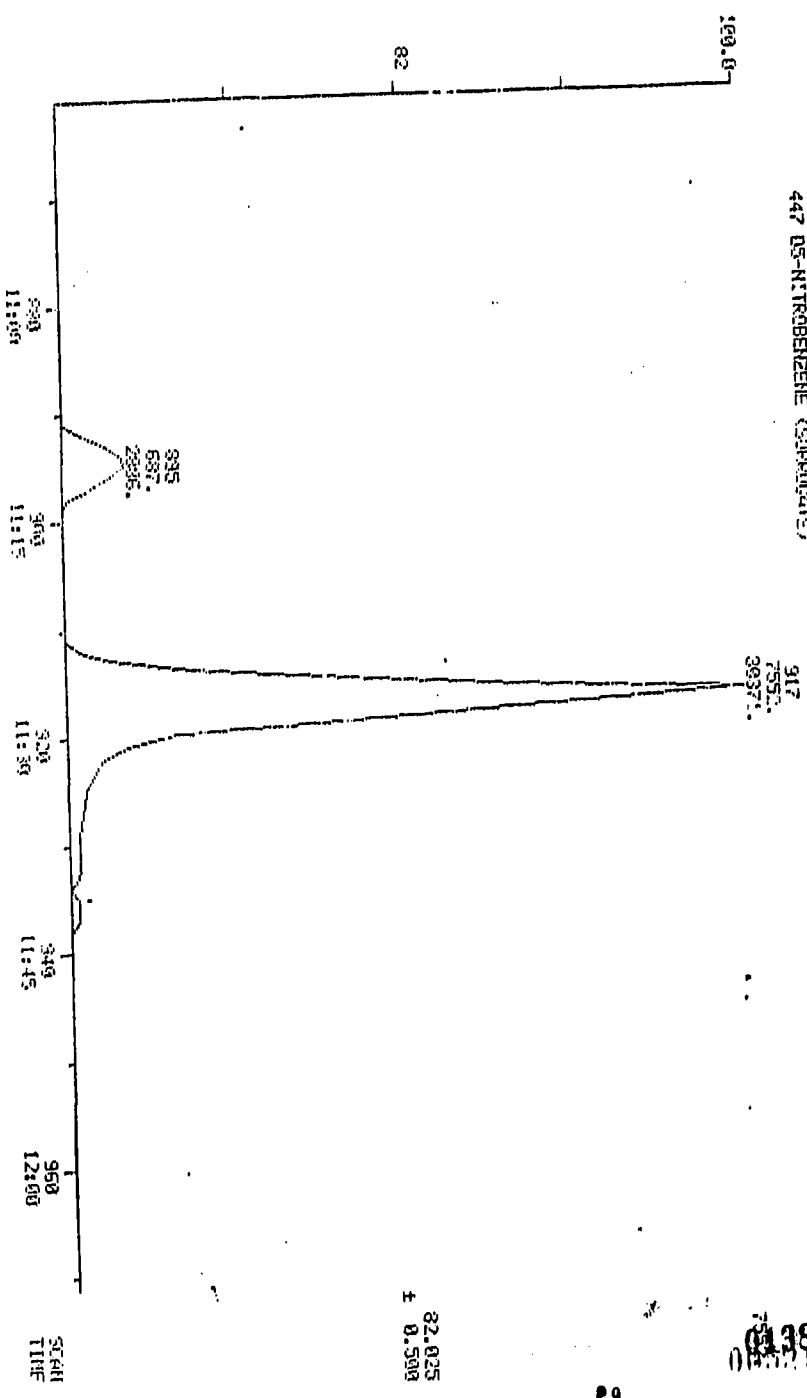
NEAD CONFUCHER1
CONFUCHER DATA: HG346212B14 SCANS 704 TO 814



013889
3658
003215

MASS CHROMATOGRAM
02/12/86 17:28:32
SAMPLE: ILL DETPP 11896(2342)RM14 SQMG
447 DS-NITROBENZENE (S199000415)

HEAD COMPOUND
COMPOUND DATA: MS240212814 SQMS 861 TO 971



82.025
± 0.508

0013890
000000

MASS CHROMATOGRAM
02/12/84 17:08:02
SAMPLE: ILE DETPP 11893(2342)ORW14 5MG.
448 2-FLUOROSIPHENYL (SUPERGATE)

HEAD CONFUCHEN
CONFUCHEN DATA: HG840212B14 SCANS 1256 TO 1266

01389

1312
15104.
50935.

15104.

005217

20

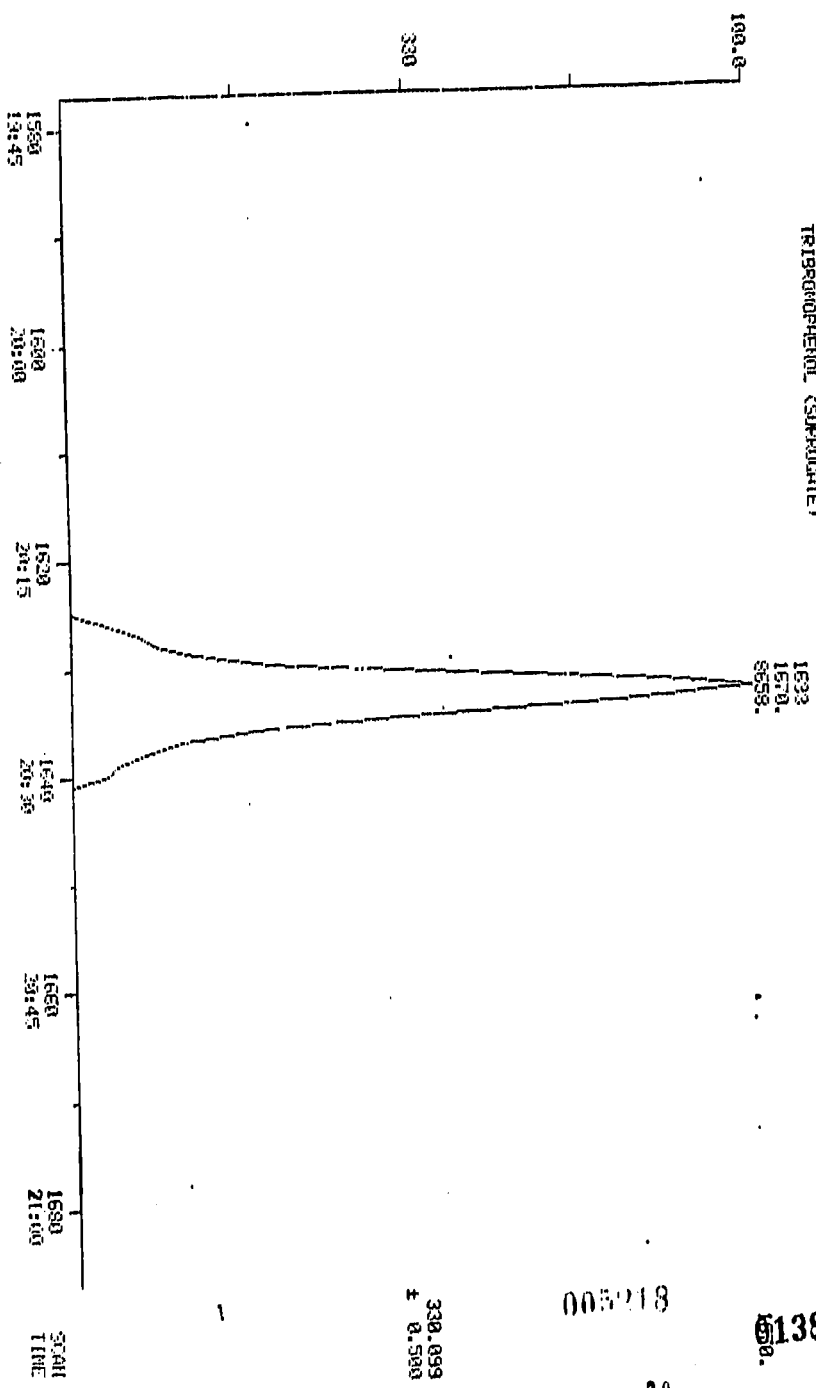
100.9
172

172.851
± 0.500

1250 13:45
1280 15:00
1300 16:15
1320 16:30
1340 16:45
1360 17:00
SCAN TIME

MASS CHEMIST/OSBAN
82/12/84 17:08:00
SAMPLE: IUL DF-TTP
TRIPROFENOL (SUPROGATE)

HEAD COMPUTER
COMPUTER DATA: HG348213B14 SCANS 1577 TO 1697



330.099
± 0.500

005218

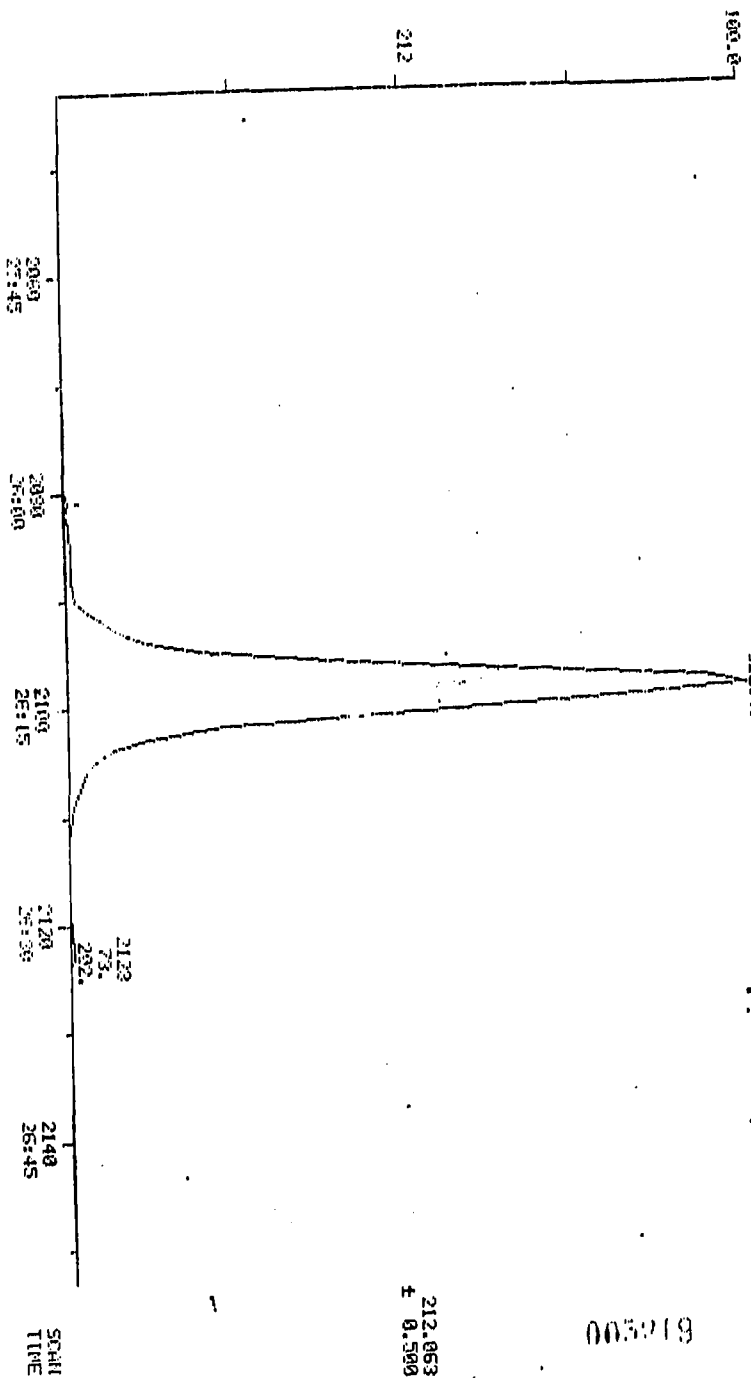
13892

20

MASS CHROMATOGRAM
 R2/12/84 17:53:99
 SAMPLE: HU DFTIP 11009(2342)OR#14 50MG
 D10-PYRENE (SUPROGATE)

HEAD COMPUGHEN

COMPUGHEN DATA: H8240212B14 SCANS 2043 TO 2153



013893

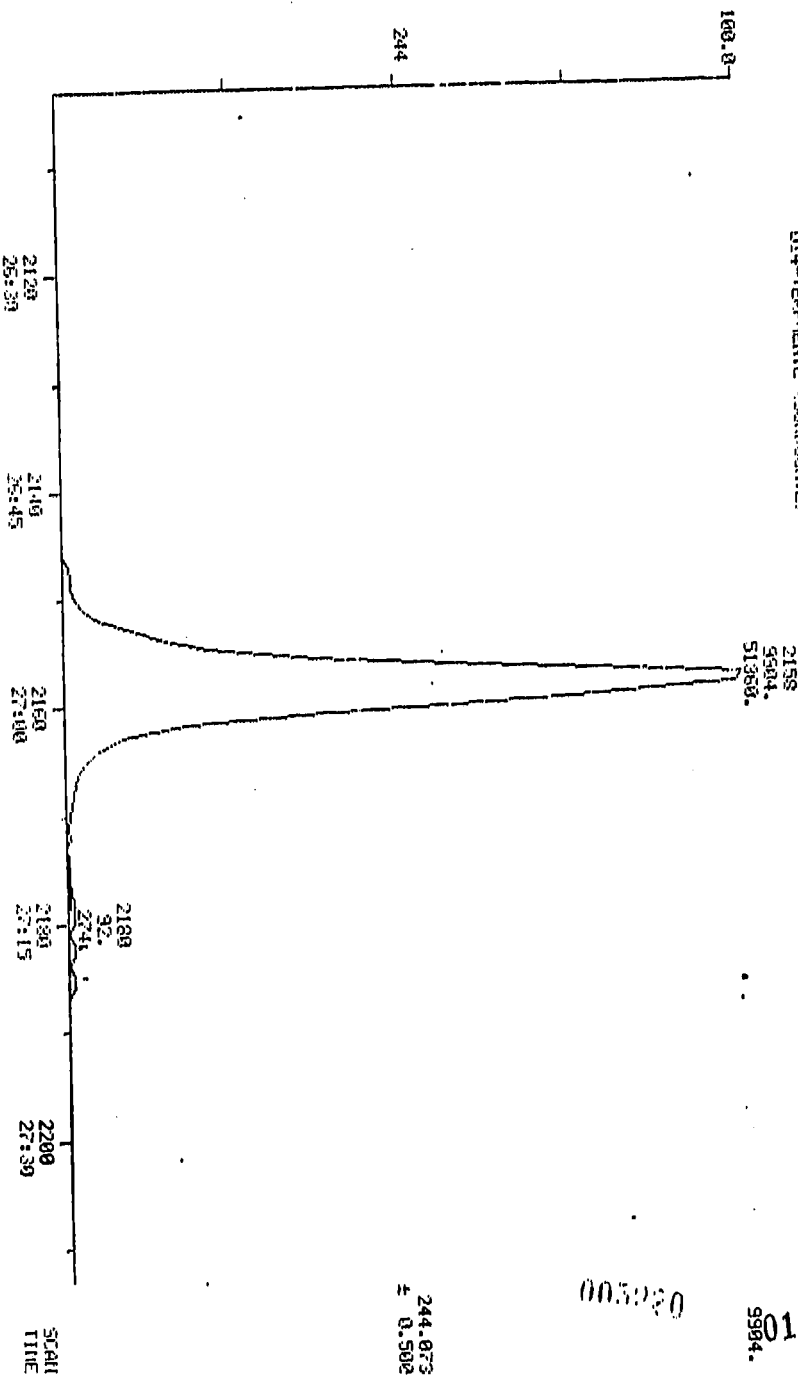
2120.

005219

2

MASS CHROMATOGRAM
 02/12/84 17:08:08
 SAMPLE: IUL DFTFP
 014-TEMPHENTL (SUPERODATE)

HEAD COMPONENT
 COMPONENT DATA: HQ840212B14 SCANS 2193 TO 2213



013894

003220

QUANTITATION REPORT FILE: HGB40212B14

DATA: HGB40212B14.TI
 02/12/84 17:08:00
 SAMPLE: 1UL DFTFP 11009(2342)DN#14 50NG
 SUBMITTED BY: 14 ANALYST: 755

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

NO	NAME
1	*D4-1,4-DICHLORO BENZENE (IS)
2	441 N-NITROSDIMETHYAMINE
3	610 PHENOL
4	473 ANILINE
5	411 BIS(2-CHLOROETHYL)ETHER
6	601 2-CHLOROPHENOL
7	421 1,3-DICHLORO BENZENE
8	422 1,4-DICHLORO BENZENE
9	474 BENZYL ALCOHOL
10	420 1,2-DICHLORO BENZENE
11	620 2-METHYLPHENOL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSO-DI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	140 NITROBENZENE
17	*460 DB-NAPHTHALENE (IS)
18	438 ISOPHORONE
19	606 2-NITROPHENOL
20	603 2,4-DIMETHYLPHENOL
21	410 BIS(2-CHLOROETHOXY)METHANE
22	625 BENZOIC ACID
23	602 2,4-DICHLOROPHENOL
24	446 1,2,4-TRICHLORO BENZENE
25	439 NAPHTHALENE
26	475 4-CHLOROANILINE
27	434 HEXACHLORO BUTADIENE
28	608 P-CHLORO-M-CRESOL
29	477 2-METHYLNAPHTHALENE
30	435 HEXACHLORO CYCLOPENTADIENE
31	611 2,4,6-TRICHLOROPHENOL
32	626 2,4,5-TRICHLOROPHENOL
33	*D10-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	425 DIMETHYLPHTHALATE
37	402 ACENAPHTHYLENE
38	428 2,6-DINITROTOLUENE
39	478 2-NITROANILINE
40	401 ACENAPHTHENE
41	605 2,4-DINITROPHENOL
42	607 4-NITROPHENOL
43	476 DIBENZOFURAN
44	427 2,4-DINITROTOLUENE
45	424 DIETHYLPHTHALATE
46	417 4-CHLOROPHENYL PHENYL ETHER

013895

005921

QUANTITATION REPORT FILE: HGB40212B14

DATA: HGB40212B14.TI
 02/12/84 17:08:00
 SAMPLE: 1UL DFTPP 11009(2342)DN#14 50NG
 SUBMITTED BY: 14 ANALYST: 755

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

NO	NAME
1	*D4-1,4-DICHLORO BENZENE (IS)
2	441 N-NITROSODIMETHYLAMINE
3	610 PHENOL
4	473 ANILINE
5	411 BIS(2-CHLOROETHYL)ETHER
6	601 2-CHLOROPHENOL
7	421 1,3-DICHLORO BENZENE
8	422 1,4-DICHLORO BENZENE
9	474 BENZYL ALCOHOL
10	420 1,2-DICHLORO BENZENE
11	620 2-METHYLPHENOL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSO-DI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	140 NITROBENZENE
17	*460 DB-NAPHTHALENE (IS)
18	438 ISOPHORONE
19	606 2-NITROPHENOL
20	603 2,4-DIMETHYLPHENOL
21	410 BIS(2-CHLOROETHOXY)METHANE
22	625 BENZOIC ACID
23	602 2,4-DICHLOROPHENOL
24	446 1,2,4-TRICHLORO BENZENE
25	439 NAPHTHALENE
26	475 4-CHLOROANILINE
27	434 HEXACHLORO BUTADIENE
28	608 P-CHLORO-M-CRESOL
29	477 2-METHYLNAPHTHALENE
30	435 HEXACHLORO CYCLOPENTADIENE
31	611 2,4,6-TRICHLORO PHENOL
32	626 2,4,5-TRICHLORO PHENOL
33	*D10-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	425 DIMETHYLPHTHALATE
37	402 ACENAPHTHYLENE
38	428 2,6-DINITROTOLUENE
39	478 2-NITROANILINE
40	401 ACENAPHTHENE
41	605 2,4-DINITROPHENOL
42	607 4-NITROPHENOL
43	476 DIBENZOFURAN
44	427 2,4-DINITROTOLUENE
45	424 DIETHYLPHTHALATE
46	417 4-CHLOROPHENYL PHENYL ETHER

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005921

NO NAME
 47 432 FLUORENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-O-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSO)
 51 430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE)
 52 *467 D10-PHENANTHRENE (IS)
 53 414 4-BROMOPHENYL PHENYL ETHER
 54 433 HEXACHLOROBENZENE
 55 609 PENTACHLOROPHENOL
 56 444 PHENANTHRENE
 57 403 ANTHRACENE
 58 426 DI-N-BUTYLPHTHALATE
 59 431 FLUORANTHENE
 60 *459 D12-CHRYSENE (IS)
 61 445 PYRENE
 62 404 BENZIDENE
 63 415 BUTYLBENZYLPHTHALATE
 64 423 3,3'-DICHLOROBENZIDINE
 65 405 BENZO(A)ANTHRACENE
 66 413 BIS(2-ETHYLHEXYL)PHTHALATE
 67 418 CHRYSENE
 68 429 DI-N-OCTYLPHTHALATE
 69 *D12-BENZO(A)PYRENE (IS)
 70 407 BENZO(B)FLUORANTHENE
 71 409 BENZO(K)FLUORANTHENE
 72 406 BENZO(A)PYRENE
 73 437 INDENO(1,2,3-C,D)PYRENE
 74 419 DIBENZO(A,H)ANTHRACENE
 75 408 BENZO(G,H,I)PERYLENE
 76 619 2-FLUOROPHENOL (SURROGATE)
 77 D5-PHENOL (SURROGATE)
 78 447 D5-NITROBENZENE (SURROGATE)
 79 448 2-FLUOROBIPHENYL (SURROGATE)
 80 TRIBROMOPHENOL (SURROGATE)
 81 D10-PYRENE (SURROGATE)
 82 D14-TERPHENYL (SURROGATE)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	150	795	9:56	1	1.000	A VB	33853.	40.000 NG	0.71
2	74	304	3:48	1	0.382	A BV	13445.	50.000 NG	0.89
3	94	762	9:31	1	0.958	A BV	32874.	50.000 NG	0.89
4	93	764	9:33	1	0.961	A BV	31507.	50.000 NG	0.89
5	93	764	9:33	1	0.961	A BV	31507.	50.000 NG	0.89
6	128	765	9:34	1	0.962	A BV	29175.	50.000 NG	0.89
7	146	786	9:49	1	0.989	A BV	35605.	50.000 NG	0.89
8	146	798	9:58	1	1.004	A VB	39124.	50.000 NG	0.89
9	108	842	10:31	1	1.059	A BV	13361.	50.000 NG	0.89
10	146	834	10:25	1	1.049	A BV	35886.	50.000 NG	0.89
11	108	877	10:58	1	1.103	A VV	23311.	50.000 NG	0.89
12	121	873	10:55	1	1.098	A*BB	9232.	50.000 NG	0.89
13	108	910	11:22	1	1.145	A VV	26400.	50.000 NG	0.89
14	130	902	11:16	1	1.135	A BB	3340.	50.000 NG	0.89
15	117	894	11:10	1	1.125	A BB	12375.	50.000 NG	0.89
16	123	921	11:31	1	1.158	A BV	16364.	50.000 NG	0.89
17	136	1060	13:15	17	1.000	A BB	66323.	40.000 NG	0.89
18	82	974	12:10	17	0.919	A BV	46625.	50.000 NG	0.89

0138961
 005222

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
19	139	989	12:22	17	0.933	A BV	13671.	50.000 NG	0.89
20	122	1015	12:41	17	0.958	A BV	22609.	50.000 NG	0.89
21	93	1033	12:55	17	0.975	A BV	32846.	50.000 NG	0.89
22	105	1075	13:26	17	1.014	A*BB	65170.	249.999 NG	4.45
23	162	1045	13:04	17	0.986	A BB	22285.	49.999 NG	0.89
24	180	1055	13:11	17	0.995	A BV	30754.	49.999 NG	0.89
25	128	1064	13:18	17	1.004	A BV	93377.	49.999 NG	0.89
26	127	1105	13:49	17	1.042	A*BV	39937.	249.995 NG	4.45
27	225	1112	13:54	17	1.049	A BB	15971.	49.999 NG	0.89
28	107	1213	15:10	17	1.144	A BV	27694.	49.999 NG	0.89
29	115	1218	15:13	17	1.149	A BB	22200.	49.999 NG	0.89
30	237	1271	15:53	17	1.199	A BB	7909.	49.999 NG	0.89
31	196	1294	16:10	17	1.221	A BV	16511.	49.999 NG	0.89
32	196	1303	16:17	17	1.229	A VV	90865.	249.994 NG	4.45
33	164	1451	18:08	33	1.000	A BB	36846.	40.000 NG	0.71
34	162	1324	16:33	33	0.912	A BV	55748.	49.999 NG	0.89
35	138	1368	17:06	33	0.943	A BV	84761.	249.994 NG	4.45
36	163	1423	17:47	33	0.981	A BB	62393.	49.999 NG	0.89
37	152	1415	17:41	33	0.975	A BV	43183.	49.999 NG	0.89
38	165	1434	17:55	33	0.988	A VB	12203.	49.999 NG	0.89
39	138	1479	18:29	33	1.019	A VB	4369.	249.994 NG	4.45
40	154	1458	18:13	33	1.005	A BB	52304.	49.999 NG	0.89
41	184	1485	18:34	33	1.023	A BV	15354.	249.994 NG	4.45
42	109	1531	19:08	33	1.055	A BB	9588.	124.998 NG	2.23
43	168	1495	18:41	33	1.030	A BB	78668.	49.999 NG	0.89
44	163	1519	18:59	33	1.047	A BB	13826.	49.999 NG	0.89
45	149	1584	19:48	33	1.092	A BV	64863.	49.999 NG	0.89
46	204	1583	19:47	33	1.091	A BB	29413.	49.999 NG	0.89
47	166	1572	19:39	33	1.083	A BV	58106.	49.999 NG	0.89
48	138	1623	20:17	33	1.119	A VB	7442.	249.994 NG	4.45
49	198	1608	20:06	33	1.108	A BB	27918.	249.994 NG	4.45
50	169	1615	20:11	33	1.113	A BB	15529.	49.999 NG	0.89
51	77	1617	20:13	33	1.114	A VV	61717.	49.999 NG	0.89
52	188	1780	22:15	52	1.000	A BV	62458.	40.000 NG	0.71
53	248	1691	21:08	52	0.950	A BB	15761.	49.999 NG	0.89
54	284	1713	21:25	52	0.962	A BB	21042.	49.999 NG	0.89
55	266	1762	22:01	52	0.990	A BB	8658.	49.999 NG	0.89
56	178	1785	22:19	52	1.003	A BV	83729.	49.999 NG	0.89
57	178	1795	22:26	52	1.008	A VB	78128.	49.999 NG	0.89
58	149	1756	22:27	52	1.099	A VV	104942.	49.999 NG	0.89
59	202	2055	25:41	52	1.154	A VV	79516.	49.999 NG	0.89
60	240	2383	29:47	60	1.000	A BB	30623.	40.000 NG	0.71
61	202	2103	26:17	60	0.883	A VV	80520.	49.999 NG	0.89
62	NOT	800					800		
63	149	2292	28:39	60	0.962	A VV	37536.	49.999 NG	0.89
64	NOT	800					800		
65	228	2380	29:45	60	0.999	A BV	48760.	49.999 NG	0.89
66	149	2437	30:28	60	1.023	A BV	58761.	49.999 NG	0.89
67	228	2389	29:52	60	1.003	A VV	43571.	49.999 NG	0.89
68	149	2570	32:07	60	1.078	A VV	88463.	49.999 NG	0.89
69	264	2670	33:22	69	1.000	A BV	17422.	40.000 NG	0.71
70	252	2612	32:29	69	0.978	A BV	28495.	50.000 NG	0.89
71	252	2616	32:42	69	0.980	A VV	27360.	50.000 NG	0.89
72	252	2674	33:25	69	1.001	A BV	22420.	49.999 NG	0.89
73	276	2926	36:34	69	1.096	A BB	14180.	49.999 NG	0.89
74	278	2935	36:41	69	1.099	A BB	10517.	49.999 NG	0.89

005928

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
73	276	2995	37:26	69	1.122	A BB	12083.	50.000 NG	0.89
76	112	575	7:11	1	0.723	A BV	17355.	50.000 NG	0.89
77	99	760	9:30	17	0.717	A BV	27517.	50.000 NG	0.89
78	82	917	11:28	17	0.865	A BV	30057.	50.000 NG	0.89
79	172	1312	16:24	17	1.238	A BB	60936.	50.000 NG	0.89
80	330	1633	20:25	33	1.125	A BB	8658	50.000 NG	0.89
81	212	2099	26:14	60	0.881	A BV	72953.	50.000 NG	0.89
82	244	2158	26:58	52	1.212	A BV	52741.	50.000 NG	0.89

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:49	1.00	0.382	1.00	50.00	50.00	0.318	0.318	1.00
3	9:31	1.00	0.958	1.00	50.00	50.00	0.777	0.777	1.00
4	9:33	1.00	0.961	1.00	50.00	50.00	0.745	0.745	1.00
5	9:33	1.00	0.961	1.00	50.00	50.00	0.745	0.745	1.00
6	9:34	1.00	0.962	1.00	50.00	50.00	0.689	0.689	1.00
7	9:49	1.00	0.989	1.00	50.00	50.00	0.841	0.841	1.00
8	9:58	1.00	1.004	1.00	50.00	50.00	0.925	0.925	1.00
9	10:31	1.00	1.059	1.00	50.00	50.00	0.316	0.316	1.00
10	10:25	1.00	1.049	1.00	50.00	50.00	0.848	0.848	1.00
11	10:58	1.00	1.103	1.00	50.00	50.00	0.551	0.551	1.00
12	10:55	1.00	1.098	1.00	50.00	50.00	0.218	0.218	1.00
13	11:22	1.00	1.145	1.00	50.00	50.00	0.624	0.624	1.00
14	11:16	1.00	1.135	1.00	50.00	50.00	0.126	0.126	1.00
15	11:10	1.00	1.125	1.00	50.00	50.00	0.292	0.292	1.00
16	11:31	1.00	1.158	1.00	50.00	50.00	0.387	0.387	1.00
17	13:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	12:10	1.00	0.919	1.00	50.00	50.00	0.562	0.562	1.00
19	12:22	1.00	0.933	1.00	50.00	50.00	0.165	0.165	1.00
20	12:41	1.00	0.958	1.00	50.00	50.00	0.273	0.273	1.00
21	12:55	1.00	0.975	1.00	50.00	50.00	0.396	0.396	1.00
22	13:26	1.00	1.014	1.00	250.00	250.00	0.157	0.157	1.00
23	13:04	1.00	0.986	1.00	50.00	50.00	0.269	0.269	1.00
24	13:11	1.00	0.995	1.00	50.00	50.00	0.371	0.371	1.00
25	13:18	1.00	1.004	1.00	50.00	50.00	1.127	1.127	1.00
26	13:49	1.00	1.042	1.00	249.99	249.99	0.096	0.096	1.00
27	13:34	1.00	1.049	1.00	50.00	50.00	0.193	0.193	1.00
28	15:10	1.00	1.144	1.00	50.00	50.00	0.334	0.334	1.00
29	15:13	1.00	1.149	1.00	50.00	50.00	0.268	0.268	1.00
30	15:52	1.00	1.199	1.00	50.00	50.00	0.095	0.095	1.00
31	16:10	1.00	1.221	1.00	50.00	50.00	0.199	0.199	1.00
32	16:17	1.00	1.229	1.00	249.99	249.99	0.219	0.219	1.00
33	18:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	16:33	1.00	0.912	1.00	50.00	50.00	1.210	1.210	1.00
35	17:06	1.00	0.943	1.00	249.99	249.99	0.368	0.368	1.00
36	17:47	1.00	0.981	1.00	50.00	50.00	1.355	1.355	1.00
37	17:41	1.00	0.975	1.00	50.00	50.00	0.938	0.938	1.00
38	17:55	1.00	0.988	1.00	50.00	50.00	0.265	0.265	1.00
39	18:29	1.00	1.019	1.00	249.99	249.99	0.019	0.019	1.00
40	18:13	1.00	1.005	1.00	50.00	50.00	1.136	1.136	1.00
41	18:34	1.00	1.023	1.00	249.99	249.99	0.067	0.067	1.00
42	19:08	1.00	1.055	1.00	125.00	125.00	0.075	0.075	1.00
43	18:41	1.00	1.030	1.00	50.00	50.00	1.708	1.708	1.00
44	18:59	1.00	1.047	1.00	50.00	50.00	0.344	0.344	1.00
45	19:48	1.00	1.092	1.00	50.00	50.00	1.408	1.408	1.00
46	19:47	1.00	1.091	1.00	50.00	50.00	0.552	0.552	1.00

003898
003898

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	19:39	1.00	1.083	1.00	50.00	50.00	1.263	1.263	1.00
48	20:17	1.00	1.117	1.00	249.99	249.99	0.032	0.032	1.00
49	20:05	1.00	1.108	1.00	249.99	249.99	0.121	0.121	1.00
50	20:11	1.00	1.113	1.00	50.00	50.00	0.337	0.337	1.00
51	20:13	1.00	1.114	1.00	50.00	50.00	1.340	1.340	1.00
52	22:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	21:08	1.00	0.950	1.00	50.00	50.00	0.202	0.202	1.00
54	21:25	1.00	0.962	1.00	50.00	50.00	0.270	0.270	1.00
55	22:01	1.00	0.990	1.00	50.00	50.00	0.111	0.111	1.00
56	22:19	1.00	1.003	1.00	50.00	50.00	1.072	1.072	1.00
57	22:26	1.00	1.008	1.00	50.00	50.00	1.001	1.001	1.00
58	24:27	1.00	1.099	1.00	50.00	50.00	1.344	1.344	1.00
59	25:41	1.00	1.154	1.00	50.00	50.00	1.019	1.019	1.00
60	29:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	26:17	1.00	0.983	1.00	50.00	50.00	2.104	2.104	1.00
62	26:59		0.908		50.00	50.00	0.010	0.010	
63	28:39	1.00	0.962	1.00	50.00	50.00	0.981	0.981	1.00
64	30:43		1.007		50.00	50.00	0.018	0.018	
65	29:45	1.00	0.999	1.00	50.00	50.00	1.274	1.274	1.00
66	30:28	1.00	1.023	1.00	50.00	50.00	1.535	1.535	1.00
67	29:52	1.00	1.003	1.00	50.00	50.00	1.138	1.138	1.00
68	32:07	1.00	1.078	1.00	50.00	50.00	2.311	2.311	1.00
69	33:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	32:39	1.00	0.978	1.00	50.00	50.00	1.308	1.308	1.00
71	32:42	1.00	0.980	1.00	50.00	50.00	1.256	1.256	1.00
72	33:25	1.00	1.001	1.00	50.00	50.00	1.030	1.030	1.00
73	36:34	1.00	1.096	1.00	50.00	50.00	0.651	0.651	1.00
74	36:41	1.00	1.099	1.00	50.00	50.00	0.483	0.483	1.00
75	37:26	1.00	1.122	1.00	50.00	50.00	0.555	0.555	1.00
76	7:11	1.00	0.723	1.00	50.00	50.00	0.410	0.410	1.00
77	9:30	1.00	0.717	1.00	50.00	50.00	0.332	0.332	1.00
78	11:28	1.00	0.865	1.00	50.00	50.00	0.363	0.363	1.00
79	16:24	1.00	1.238	1.00	50.00	50.00	0.735	0.735	1.00
80	20:25	1.00	1.125	1.00	50.00	50.00	0.188	0.188	1.00
81	25:14	1.00	0.881	1.00	50.00	50.00	1.906	1.906	1.00
82	25:58	1.00	1.212	1.00	50.00	50.00	0.676	0.676	1.00

013899

005925



233

Mead CompuChem GC/MS Analysis Log

Run Log

Press Hard, Multiple Copies

Initial Time of Turn
Time Time Elapsed

16:39
0:37

390

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	DH840212 B14 RI		<input checked="" type="checkbox"/>	1.0 µL	SW		149	11005 (7)
2	DH840212 B14		<input checked="" type="checkbox"/>	"	755		149	"
3	HG840212 B14		<input checked="" type="checkbox"/>	"	"		"	11009 (
4	G-H019585 B14 ^{230K} C3663		<input checked="" type="checkbox"/>	"	"		149	11009 (
5	G-H019582 B14 C3671		<input checked="" type="checkbox"/>	"	"		149	1
6	G-H019559 B14 ^{233P} R3518		<input checked="" type="checkbox"/>	"	"		141	11009 (
7	G-H019560 B14 R3519		<input checked="" type="checkbox"/>	"	"		"	"
8	G-H019561 B14 ^{233P} R3520		<input checked="" type="checkbox"/>	"	"		"	"
9	G-H019562 C14 R3521		<input checked="" type="checkbox"/>	1 µL	754		149	56255 (
10			<input checked="" type="checkbox"/>					
11			<input checked="" type="checkbox"/>					
12			<input checked="" type="checkbox"/>					
13			<input checked="" type="checkbox"/>					
14			<input checked="" type="checkbox"/>					
15			<input checked="" type="checkbox"/>					
16			<input checked="" type="checkbox"/>					
17			<input checked="" type="checkbox"/>					
18			<input checked="" type="checkbox"/>					
19			<input checked="" type="checkbox"/>					
20			<input checked="" type="checkbox"/>					

Head ComputuChem GC/MS Analysis Log

Initial Time of Run 16:39 (A) (B) (C)
 Time Time Elapsed 0:37
 Date 2/12/89
 Analysis Type 356A7

Press Hard, Multiple Copies

Sample Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
B14 RI	✓		1.0 µl	SW		149	11005 (7050) n6365
B14			"	"		"	"
B14			"	"		"	11009 (2342) 50mg
B14			"	"		149	(11004 #033)
B14			"	"		149	(new Disc)
B14			"	"		"	"
B14			"	"		"	"
B14			"	"		"	"
2C14			1.0 µl	TS4		149	50µl TS (11005)

01890

FSC "CHECK STANDARD" TABULATION

NO. 14

STANDARD FILE NAME

H850212614

DATE

2/12/84

OPERATOR

755

211184

0390
25228

CHECK CONFORM	← THREE POINT MULTI-POINT →			MULTIPOINT AVERAGE RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	20 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR	90 mg RESPONSE FACTOR				
<u>14-Dioxin/Polychlorinated Biphenyls (B)</u>	0.950	0.919	0.907	0.925	0.925	0	5 Difference < 1% .
<u>15-PCB (B)</u>	1.113	1.166	1.135	1.136	1.124	0.8	5 Difference < 1% .
<u>16-PCB (A)</u>	1.107	1.051	1.072	1.077	1.136	5.5	5 Difference < 1% .
<u>17-PCB (B)</u>	1.148	1.211	1.196	1.185	1.072	9.5	5 Difference < 1% .
<u>18-PCB (B)</u>	1.196	1.070	1.111	1.126	1.138	1.1	5 Difference < 1% .
<u>19-PCB (B)</u>	1.087	1.047	1.017	1.050	1.030	1.9	5 Difference < 1% .
<u>20-PCB (B)</u>	0.678	0.725	0.703	0.702	0.562	19	5 Difference < 20 %
<u>21-Dibenzofuran (B)</u>	1.584	1.625	1.629	1.613	1.344	17	5 Difference < 20 %
<u>22-Dibenzodioxin (B)</u>							5 Difference < 20 %
<u>23-Dibenzofuran (B)</u>							5 Difference < 20 %
<u>24-Dibenzodioxin (B)</u>							5 Difference < 20 %

POSTED

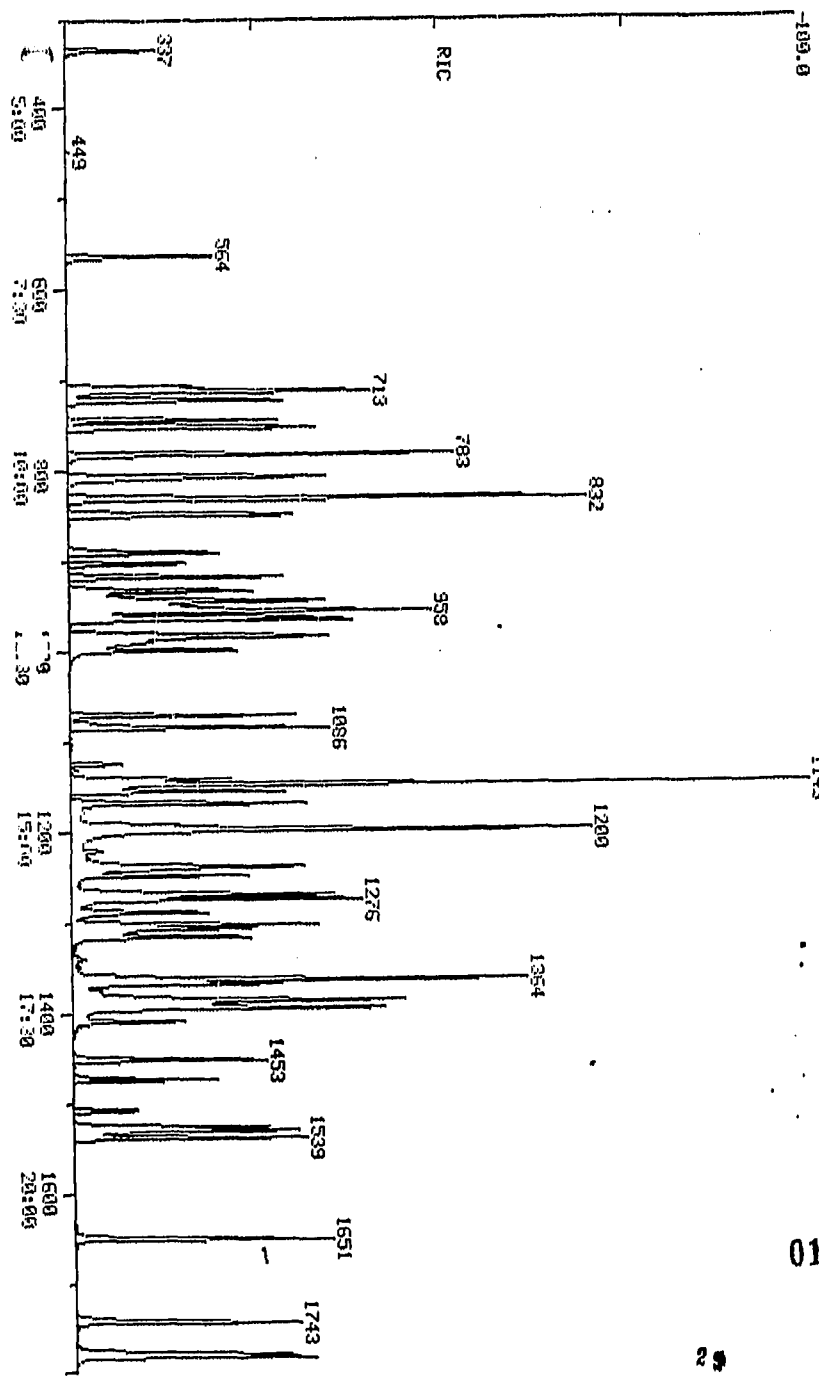
ANALYST ONLY

RIC
02/13/94 1:22:59
SAMPLE: IUL STD 2342 (11893)

HEAD COMPONENT
COMPONENT DATA: HQ940213C15 SCANS 388
OUT OF 388

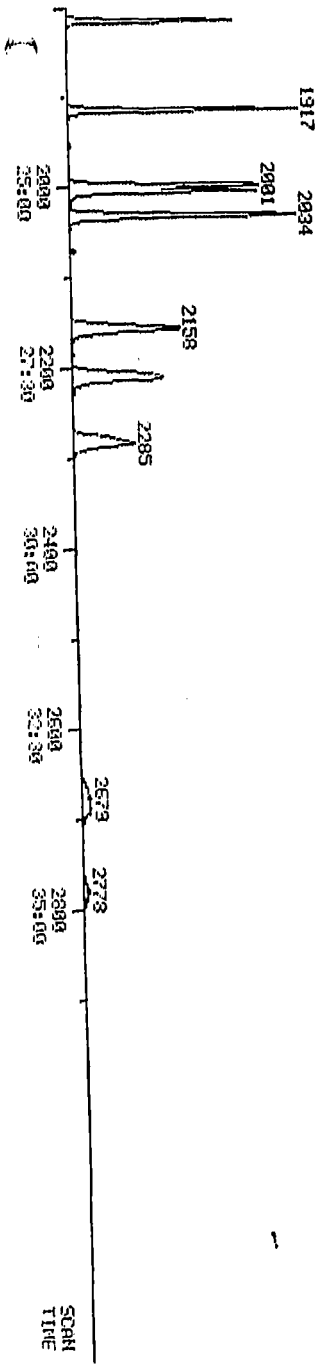
013903

005229



RIC
 02/13/84 1:22:08
 SAMPLE: IUL STD 2342 (11893)

HEAD COMPUTCHEM
 COMPUTCHEM DATA: HG840213C15 SCANS 1898 TO 1998
 OUT OF 309 TO 400
 162815.



005230

012804

PROCEDURE: RK
 DATA FILE: H0840213C15
 REFERENCE: FSCC7
 METHOD: FSCC7 INITIALIZATION OPTION: 2
 REPORT: FSCC7S1

DIAGNOSTIC REPORT

2/13/84 1:59:27

STANDARDS				PLUS UNKNOWNNS				LIST NAMES	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
6	6	1	41	34	30	24	60	FSCC7S1/FSCC7U1	
6	6	1	41	34	26	4	33	FSCC7S2/FSCC7U2	

82 COMPOUNDS PROCESSED, 70 FOUND

COMPOUND		SEARCH					SAT		CHRO			
NO	LIB ENTRY	REF	PRED	SEL DELTA	PEAKS	FIT PEAKS	M/E	TOP	DELTA	PEAKS		
1	C1	1	-753	752	752	1	982	130	751	-1	1	
2	C2	1	-965	963	963	1	980	136	963		1	
3	C3	1	-1272	1270	1270	1	983	164	1270		1	
4	C4	1	-1527	1527	1527	1	983	188	1527		1	
5	C5	1	-2005	2003	2003	1	878	240	2003		1	
6	C6	1	-2278	2278	2278	1	812	264	2278		1	
7	C1	2	-337	336	337	1	993	74	337		1	
8	C1	3	-716	715	714	-1	997	94	714		1	
9	C1	4	-711	710				93	709		1	
10	C1	5	-724	723	722	-1	976	93	722		1	
11	C1	6	-726	725	724	-1	989	128	724		1	
12	C1	7	-747	746	745	-1	995	146	745		1	
13	C1	8	-756	755	754	-1	993	146	754		1	
14	C1	9	-785	783	783		974	108	783		1	
15	C1	10	-785	783	783		980	146	783		1	
16	C1	11	-809	807	807		991	108	807		1	
17	C1	12	-811	809				121	809		1	
18	C1	13	-834	832	831	-1	996	108	831		1	
19	C1	14	-834	832	832		968	130	832		1	
20	C1	15	-834	832				117	832		1	
21	C1	16	-852	850	851	1	994	123	851		1	
22	C2	2	-893	891	892	1	994	82	892		1	
23	C2	3	-906	904	904		988	139	904		1	
24	C2	4	-920	918	918		998	122	918		1	
25	C2	5	-936	934	934		961	93	934		1	
26	C2	6	-959	957	958	1	929	105	957	-1	1	
27	C2	7	-947	945	945		989	162	945		1	
28	C2	8	-959	957	958	1	965	180	958		1	
29	C2	9	-968	966	967	1	991	128	967		1	
30	C2	10	-987	985	985		992	127	985		1	
31	C2	11	-1002	1000	1001	1	990	225	1001		1	
32	C2	12	-1074	1072	1072		994	107	1072		1	
33	C2	13	-1088	1086	1086		994	115	1086		1	
34	C2	14	-1128	1126	1127	1	943	237	1126	-1	1	
35	C2	15	-1144	1142	1143	1	977	196	1142	-1	1	
36	C2	16	-1151	1149	1149		994	196	1149		1	
37	C3	2	-1171	1169	1170	1	990	162	1170		1	
38	C3	3	-1201	1199	1200	1	990	138	1200		1	
39	C3	4	-1240	1238	1239	1	982	163	1239		1	
40	C3	5	-1244	1242	1242		988	152	1242		1	
41	C3	6	-1251	1249	1250	1	979	165	1250		1	
42	C3	7	-1271	1269	1270	1	861	138	1269	-1	1	
43	C3	8	-1277	1275	1276	1	979	154	1276		1	
44	C3	9	-1291	1289	1290	1	975	184	1289	-1	1	
45	C3	10	-1310	1308	1308		979	29	109	1308		1
46	C3	11	-1305	1303	1304	1	986	168	1304		1	

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48	C3	13	-1365	1363	1364	1	1	932	149	1364	1
49	C3	14	-1370	1368	1368		1	907	204	1368	1
50	C3	15	-1366	1364	1364		1	978	166	1364	1
51	C3	16	-1383	1381					138	1378	1
52	C3	17	-1388	1386	1387	1	1	989	198	1387	1
53	C3	18	-1393	1391	1391		1	741	169	1391	1
54	C3	19	-1397	1395	1395		1	988	77	1395	1
55	C4	2	-1455	1453	1453		1	978	248	1452	-1
56	C4	3	-1476	1474	1474		1	982	284	1474	1
57	C4	4	-1510	1508	1508		1	977	266	1508	1
58	C4	5	-1533	1531	1531		2	983	178	1531	1
59	C4	6	-1541	1539	1539		2	984	178	1539	1
60	C4	7	-1653	1651	1651		1	963	149	1651	1
61	C4	8	-1749	1743	1743		1	980	202	1743	1
62	C5	2	-1784	1782	1782		1	978	202	1782	1
63	C5	3							184		
64	C5	4	-1919	1917	1917		1	977	149	1917	1
65	C5	5							292		
66	C5	6	-2002	1999	2000	1	1	930	228	2000	1
67	C5	7	-2036	2033	2034	1	1	905	149	2034	1
68	C5	8	-2010	2007	2007		1	979	228	2007	1
69	C5	9	-2161	2158	2158		1	946	149	2158	1
70	C6	2	-2216	2213	2212	-1	1	918	292	2212	2
71	C6	3	-2216	2213	2212	-1	1	900	292	2212	2
72	C6	4	-2289	2286					292	2285	1
73	C6	5	-2679	2676					276	2673	1
74	C6	6	-2697	2694					278	2692	3
75	C6	7	-2791	2788					276	2786	2
76	C7	2	-566	565	564	-1	1	993	112	564	1
77	C7	3	-714	713					99	712	1
78	C7	4	-849	848	848		1	991	82	848	1
79	C7	5	-1158	1156	1157	1	1	981	172	1157	1
80	C7	6	-1412	1410	1410		1	984	330	1410	1
81	C7	7	-1781	1779					212	1778	1
82	C7	8	-1819	1817	1817		1	990	244	1817	1

013906

003232

QUANTITATION REPORT FILE: HGB40213C15

DATA: HGB40213C15.TI

02/13/84 1:22:00

SAMPLE: 1UL STD 2342 (11009)

SUBMITTED BY: 19

ANALYST: 754

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

NO	NAME
1	*04-1,4-DICHLOROBENZENE (IS)
2	441 N-NITROSODIMETHYAMINE
3	610 PHENOL
4	473 ANILINE
5	411 BIS(2-CHLOROETHYL)ETHER
6	601 2-CHLOROPHENOL
7	421 1,3-DICHLOROBENZENE
8	422 1,4-DICHLOROBENZENE
9	474 BENZYL ALCOHOL
10	420 1,2-DICHLOROBENZENE
11	620 2-METHYLPHENOL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSO-DI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	440 NITROBENZENE
17	*460 DB-NAPHTHALENE (IS)
18	438 ISOPHRONE
19	606 2-NITROPHENOL
20	603 2,4-DIMETHYLPHENOL
21	410 BIS(2-CHLOROETHOXY)METHANE
22	625 BENZOIC ACID
23	602 2,4-DICHLOROPHENOL
24	446 1,2,4-TRICHLOROBENZENE
25	439 NAPHTHALENE
26	475 4-CHLOROANILINE
27	434 HEXACHLOROBTADIENE
28	608 P-CHLORO-M-CRESOL
29	477 2-METHYLNAPHTHALENE
30	435 HEXACHLOROCYCLOPENTADIENE
31	611 2,4,6-TRICHLOROPHENOL
32	626 2,4,5-TRICHLOROPHENOL
33	*D10-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	425 DIMETHYLPHTHALATE
37	402 ACENAPHTHYLENE
38	428 2,6-DINITROTOLUENE
39	478 2-NITROANILINE
40	401 ACENAPHTHENE
41	605 2,4-DINITROPHENOL
42	607 4-NITROPHENOL
43	476 DIBENZOFURAN
44	427 2,4-DINITROTOLUENE
45	424 DIETHYLPHTHALATE
46	417 4-CHLOROPHENYL PHENYL ETHER

013907

40 NAME
 47 432 FLUORENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-D-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSD)
 51 430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE)
 52 *467 DIO-PHENANTHRENE (IS)
 53 414 4-BROMOPHENYL PHENYL ETHER
 54 433 HEXACHLOROBENZENE
 55 609 PENTACHLOROPHENOL
 56 444 PHENANTHRENE
 57 403 ANTHRACENE
 58 426 DI-N-BUTYLPHTHALATE
 59 431 FLUORANTHENE
 60 *459 D12-CHRYSENE (IS)
 61 445 PYRENE
 62 404 BENZIDENE
 63 415 BUTYLBENZYLPHTHALATE
 64 423 3,3'-DICHLOROBENZIDINE
 65 405 BENZO(A)ANTHRACENE
 66 413 BIS(2-ETHYLHEXYL)PHTHALATE
 67 418 CHRYSENE
 68 429 DI-N-OCTYLPHTHALATE
 69 *D12-BENZO(A)PYRENE (IS)
 70 407 BENZO(B)FLUORANTHENE
 71 409 BENZO(K)FLUORANTHENE
 72 406 BENZO(A)PYRENE
 73 437 INDENO(1,2,3-C,D)PYRENE
 74 419 DIBENZO(A,H)ANTHRACENE
 75 408 BENZO(G,H,I)PERYLENE
 76 619 2-FLUOROPHENOL (SURROGATE)
 77 D5-PHENOL (SURROGATE)
 78 447 D5-NITROBENZENE (SURROGATE)
 79 448 2-FLUOROBIPHENYL (SURROGATE)
 80 TRIBROMOPHENOL (SURROGATE)
 81 D10-PYRENE (SURROGATE)
 82 D14-TERPHENYL (SURROGATE)

Handwritten: 2-13-84

ND	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TDT
1	190	751	9:23	1	1.000	A VB	24106.	40.000 NG	0.58
2	74	337	4:13	1	0.449	A BV	17672.	55.880 NG	0.82
3	94	714	8:55	1	0.951	A VV	40248.	55.767 NG	0.81
4	93	709	8:52	1	0.944	A BV	34472.	56.952 NG	0.83
5	93	722	9:01	1	0.961	A VB	34609.	52.418 NG	0.76
6	128	724	9:03	1	0.964	A BB	25078.	49.415 NG	0.72
7	146	745	9:19	1	0.992	A BB	26689.	51.280 NG	0.75
8	146	754	9:25	1	1.004	A BB	28903.	50.704 NG	0.74
9	108	783	9:47	1	1.043	A BV	16886.	52.667 NG	0.77
10	146	783	9:47	1	1.043	A BB	25526.	52.592 NG	0.77
11	108	807	10:05	1	1.075	A BB	23029.	52.981 NG	0.77
12	121	809	10:07	1	1.077	A BB	10100.	54.797 NG	0.80
13	108	831	10:23	1	1.107	A BB	26931.	50.853 NG	0.76
14	130	832	10:24	1	1.108	A BB	3054.	52.612 NG	0.76
15	117	832	10:24	1	1.108	A BB	13967.	60.832 NG	0.89
16	123	851	10:38	1	1.133	A BB	14400.	52.726 NG	0.77
17	136	963	12:02	17	1.000	A BB	51226.	40.000 NG	0.58
18	82	892	11:09	17	0.926	A BB	61466.	56.081 NG	0.82

813908

M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	%TOT
19	139	904	11:18	17	0.939	A BB	11171.	51.815 NG 0.76
20	122	918	11:28	17	0.953	A BB	21910.	51.425 NG 0.75
21	93	934	11:40	17	0.970	A BB	36399.	53.498 NG 0.78
22	105	957	11:58	17	0.994	A VV	30391.	99.428 NG 1.45
23	162	943	11:49	17	0.981	A BB	18181.	47.341 NG 0.69
24	180	958	11:58	17	0.995	A BB	21485.	45.409 NG 0.66
25	128	967	12:05	17	1.004	A BB	75123.	51.675 NG 0.75
26	127	985	12:19	17	1.023	A BV	73902.	494.548 NG 7.21
27	225	1001	12:31	17	1.039	A BB	11072.	44.277 NG 0.65
28	107	1072	13:24	17	1.113	A BB	30281.	57.608 NG 0.84
29	115	1086	13:34	17	1.128	A BB	21019.	51.974 NG 0.76
30	237	1126	14:04	17	1.169	A BB	4714.	75.724 NG 1.10
31	196	1142	14:16	17	1.186	A BV	12113.	48.633 NG 0.71
32	196	1149	14:22	17	1.193	A VB	57600.	234.690 NG 3.42
33	164	1270	13:52	33	1.000	A BB	27824.	40.000 NG 0.58
34	162	1170	14:37	33	0.921	A BB	39569.	49.091 NG 0.72
35	138	1200	15:00	33	0.945	A BV	85282.	269.911 NG 3.93
36	163	1239	15:29	33	0.976	A BB	49922.	50.320 NG 0.73
37	152	1242	15:31	33	0.978	A BB	37619.	44.111 NG 0.64
38	165	1250	15:37	33	0.984	A BB	11195.	54.765 NG 0.80
39	138	1269	15:52	33	0.999	A BV	13706.	791.226 NG 11.54
40	154	1276	15:57	33	1.005	A BB	40384.	51.765 NG 0.76
41	184	1289	16:07	33	1.015	A BV	9601.	415.123 NG 6.06
42	109	1308	16:21	33	1.030	A BV	18535.	134.705 NG 1.96
43	168	1304	16:18	33	1.027	A BB	58070.	51.052 NG 0.74
44	165	1317	16:28	33	1.037	A BB	16622.	56.662 NG 0.83
45	149	1364	17:03	33	1.074	A BB	56141.	53.719 NG 0.78
46	204	1368	17:06	33	1.077	A BB	17867.	46.087 NG 0.67
47	166	1364	17:03	33	1.074	A BB	42873.	50.516 NG 0.74
48	138	1378	17:13	33	1.085	A VV	4261.	175.957 NG 2.56
49	198	1387	17:20	33	1.092	A BB	21177.	393.932 NG 5.74
50	169	1391	17:23	33	1.095	A VB	16648.	48.121 NG 0.70
51	77	1395	17:26	33	1.098	A VV	97481.	60.199 NG 0.88
52	188	1527	19:05	52	1.000	A BB	45789.	40.000 NG 0.58
53	248	1452	18:09	52	0.951	A BB	11864.	47.779 NG 0.70
54	284	1474	18:25	52	0.965	A BB	14788.	45.158 NG 0.66
55	266	1508	18:51	52	0.988	A BB	5372.	44.311 NG 0.65
56	178	1531	19:08	52	1.003	A BV	58357.	48.320 NG 0.70
57	178	1539	19:14	52	1.008	A VB	54879.	49.250 NG 0.72
58	149	1651	20:38	52	1.081	A VV	103635.	57.966 NG 0.84
59	202	1743	21:47	52	1.141	A VV	63811.	51.146 NG 0.75
60	240	2003	23:02	60	1.000	A BV	31727.	40.000 NG 0.58
61	202	1782	22:16	60	0.890	A VV	64787.	55.086 NG 0.80
62	NOT FOUND							
63	149	1917	23:58	60	0.957	A BV	41115.	58.567 NG 0.85
64	NOT FOUND							
65	228	2000	25:00	60	0.999	A BV	53221.	50.806 NG 0.74
66	149	2034	25:25	60	1.013	A BV	62789.	59.913 NG 0.87
67	228	2007	25:05	60	1.002	A VV	50114.	54.251 NG 0.79
68	149	2158	26:58	60	1.077	A BV	106085.	60.315 NG 0.88
69	264	2278	28:28	69	1.000	A BB	28559.	40.000 NG 0.58
70	252	2212	27:39	69	0.971	A*BV	84818.	111.819 NG 1.63
71	252	2212	27:39	69	0.971	A*BV	84818.	111.819 NG 1.63
72	252	2285	28:34	69	1.003	A BV	37795.	53.186 NG 0.78
73	276	2673	33:25	69	1.173	A*BB	20940.	100.344 NG 1.46
74	278	2689	33:37	69	1.180	A BB	16499.	69.378 NG 1.01

043809

005234

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGM)	AMOUNT	ZTOT
5	276	2782	34:46	69	1.221	A*BB	14930.	66.837 NG	0.77
76	112	564	7:03	1	0.751	A BV	22649.	53.226 NG	0.78
77	99	712	8:54	17	0.739	A BB	31112.	50.672 NG	0.74
78	82	848	10:36	17	0.881	A BB	39547.	54.861 NG	0.80
79	172	1157	14:28	17	1.201	A BB	42248.	48.752 NG	0.71
80	330	1410	17:37	33	1.110	A BB	6971.	44.720 NG	0.65
81	212	1778	22:13	60	0.888	A BV	57580.	55.065 NG	0.80
82	244	1817	22:43	52	1.190	A BV	42807.	49.961 NG	0.73

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:13	1.00	0.448	1.00	55.88	50.00	0.586	0.525	1.12
3	8:57	1.00	0.951	1.00	55.77	50.00	1.336	1.198	1.12
4	8:53	1.00	0.944	1.00	56.95	50.00	1.144	1.004	1.14
5	9:03	1.00	0.961	1.00	52.42	50.00	1.149	1.096	1.05
6	9:04	1.00	0.964	1.00	49.42	50.00	0.832	0.842	0.99
7	9:20	1.00	0.992	1.00	51.28	50.00	0.886	0.864	1.03
8	9:27	1.00	1.004	1.00	50.70	50.00	0.959	0.946	1.01
9	9:49	1.00	1.042	1.00	52.67	50.00	0.560	0.532	1.05
10	9:49	1.00	1.042	1.00	52.59	50.00	0.847	0.805	1.05
11	10:07	1.00	1.074	1.00	52.98	50.00	0.764	0.721	1.06
12	10:08	1.00	1.077	1.00	54.80	50.00	0.335	0.306	1.10
13	10:25	1.00	1.108	1.00	50.85	50.00	0.894	0.879	1.02
14	10:25	1.00	1.108	1.00	52.61	50.00	0.168	0.159	1.05
15	10:25	1.00	1.108	1.00	60.83	50.00	0.464	0.381	1.22
16	10:39	1.00	1.131	1.00	52.73	50.00	0.478	0.453	1.05
17	12:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:10	1.00	0.925	1.00	56.08	50.00	0.960	0.856	1.12
19	11:19	1.00	0.939	1.00	51.81	50.00	0.174	0.168	1.04
20	11:30	1.00	0.953	1.00	51.42	50.00	0.342	0.333	1.03
21	11:42	1.00	0.970	1.00	53.50	50.00	0.568	0.531	1.07
22	11:59	1.00	0.994	1.00	99.43	250.00	0.095	0.239	0.40
23	11:50	1.00	0.981	1.00	47.34	50.00	0.284	0.300	0.95
24	11:59	1.00	0.994	1.00	45.41	50.00	0.336	0.369	0.91
25	12:06	1.00	1.003	1.00	51.67	50.00	1.173	1.135	1.03
26	12:20	1.00	1.023	1.00	494.55	250.00	0.231	0.117	1.98
27	12:31	1.00	1.038	1.00	44.28	50.00	0.173	0.195	0.89
28	13:25	1.00	1.113	1.00	57.61	50.00	0.473	0.410	1.15
29	13:36	1.00	1.127	1.00	51.97	50.00	0.328	0.316	1.04
30	14:04	1.00	1.169	1.00	75.72	50.00	0.074	0.049	1.51
31	14:18	1.00	1.185	1.00	48.63	50.00	0.189	0.194	0.97
32	14:23	1.00	1.193	1.00	234.69	250.00	0.180	0.192	0.94
33	15:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	14:38	1.00	0.921	1.00	49.09	50.00	1.138	1.159	0.98
35	15:01	1.00	0.944	1.00	269.51	250.00	0.490	0.455	1.08
36	15:30	1.00	0.975	1.00	50.32	50.00	1.435	1.426	1.01
37	15:33	1.00	0.978	1.00	44.11	50.00	1.082	1.226	0.88
38	15:38	1.00	0.983	1.00	54.77	50.00	0.322	0.294	1.10
39	15:53	1.00	0.999	1.00	791.23	250.00	0.079	0.025	3.16
40	15:58	1.00	1.004	1.00	51.76	50.00	1.161	1.122	1.04
41	16:08	1.00	1.015	1.00	415.12	250.00	0.055	0.033	1.66
42	16:22	1.00	1.030	1.00	134.70	125.00	0.213	0.198	1.08
43	16:19	1.00	1.026	1.00	51.05	50.00	1.670	1.635	0.99
44	16:28	1.00	1.036	1.00	56.64	50.00	0.478	0.422	1.13
45	17:04	1.00	1.073	1.00	53.72	50.00	1.614	1.502	1.07
46	17:07	1.00	1.077	1.00	46.09	50.00	0.514	0.557	0.92

013910

ID	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
7	17:04	1.00	1.074	1.00	50.52	50.00	1.233	1.220	1.01
48	17:17	1.00	1.087	1.00	175.56	250.00	0.025	0.035	0.70
49	17:21	1.00	1.091	1.00	393.53	250.00	0.122	0.077	1.57
50	17:25	1.00	1.095	1.00	48.19	50.00	0.479	0.497	0.96
51	17:28	1.00	1.098	1.00	60.20	50.00	2.803	2.328	1.20
52	19:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	18:11	1.00	0.952	1.00	47.78	50.00	0.207	0.217	0.96
54	18:27	1.00	0.965	1.00	45.16	50.00	0.258	0.286	0.90
55	18:52	1.00	0.988	1.00	44.31	50.00	0.074	0.106	0.89
56	19:10	1.00	1.003	1.00	48.32	50.00	1.020	1.055	0.97
57	19:16	1.00	1.008	1.00	49.25	50.00	0.959	0.973	0.99
58	20:40	1.00	1.081	1.00	57.57	50.00	1.811	1.573	1.15
59	21:49	1.00	1.141	1.00	51.15	50.00	1.115	1.090	1.02
60	25:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	22:18	1.00	0.890	1.00	55.09	50.00	1.634	1.483	1.10
62	22:42		0.890			50.00		0.009	
63	23:59	1.00	0.957	1.00	58.57	50.00	1.037	0.885	1.17
64	24:09		1.004			50.00		0.036	
65	25:01	1.00	0.999	1.00	50.81	50.00	1.342	1.321	1.02
66	25:27	1.00	1.015	1.00	59.91	50.00	1.583	1.321	1.20
67	25:07	1.00	1.002	1.00	54.25	50.00	1.264	1.165	1.09
68	27:01	1.00	1.078	1.00	60.31	50.00	2.675	2.217	1.21
69	28:31	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	27:42	1.00	0.972	1.00	111.82	100.00	1.216	1.087	1.12
71	27:42	1.00	0.972	1.00	111.82	100.00	1.216	1.087	1.12
72	28:37	1.00	1.004	1.00	53.19	50.00	1.059	0.995	1.06
73	33:29	1.00	1.174	1.00	100.34	50.00	0.587	0.292	2.01
74	33:43	1.00	1.182	1.00	69.38	50.00	0.462	0.333	1.39
75	34:53	1.00	1.224	1.00	66.84	50.00	0.418	0.313	1.34
76	7:04	1.00	0.752	1.00	53.23	50.00	0.752	0.706	1.06
77	8:55	1.00	0.740	1.00	50.67	50.00	0.486	0.479	1.01
78	10:37	1.00	0.880	1.00	54.86	50.00	0.618	0.563	1.10
79	14:28	1.00	1.200	1.00	48.75	50.00	0.660	0.677	0.98
80	17:39	1.00	1.110	1.00	44.72	50.00	0.200	0.224	0.89
81	22:16	1.00	0.888	1.00	55.06	50.00	1.452	1.318	1.10
82	22:44	1.00	1.190	1.00	49.96	50.00	0.748	0.748	1.00

013911
003256

QUANTITATION REPORT FILE: H0840213C15

L-FA: H0840213C15.TI

02/13/84 1:22:00

SAMPLE: 1UL STD 2342 (11009)

SUBMITTED BY: 15

ANALYST: 754

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

NO	NAME
1	*04-1,4-DICHLORO BENZENE (IS)
2	441 N-NITROSODIMETHYLAMINE
3	610 PHENOL
4	473 ANILINE
5	411 BIS(2-CHLOROETHYL)ETHER
6	601 2-CHLOROPHENOL
7	421 1,3-DICHLORO BENZENE
8	422 1,4-DICHLORO BENZENE
9	474 BENZYL ALCOHOL
10	420 1,2-DICHLORO BENZENE
11	620 2-METHYLPHENOL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSDI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	440 NITROBENZENE
17	*460 DB-NAPHTHALENE (IS)
18	438 ISOPHRONE
19	606 2-NITROPHENOL
20	603 2,4-DIMETHYLPHENOL
21	410 BIS(2-CHLOROETHOXY)METHANE
22	625 BENZOIC ACID
23	602 2,4-DICHLOROPHENOL
24	446 1,2,4-TRICHLORO BENZENE
25	439 NAPHTHALENE
26	475 4-CHLOROANILINE
27	434 HEXACHLORO BUTADIENE
28	608 P-CHLORO-M-CRESOL
29	477 2-METHYLNAPHTHALENE
30	435 HEXACHLORO CYCLOPENTADIENE
31	611 2,4,6-TRICHLOROPHENOL
32	626 2,4,5-TRICHLOROPHENOL
33	*010-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	425 DIMETHYLPHTHALATE
37	402 ACENAPHTHYLENE
38	428 2,6-DINITROTOLUENE
39	478 2-NITROANILINE
40	401 ACENAPHTHENE
41	605 2,4-DINITROPHENOL
42	607 4-NITROPHENOL
43	476 DIBENZOFURAN
44	427 2,4-DINITROTOLUENE
45	424 DIETHYLPHTHALATE
46	417 4-CHLOROPHENYL PHENYL ETHER

013912

005247

10 NAME
 7 432 FLUORENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-D-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSO)
 51 430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE)
 52 *467 D10-PHENANTHRENE (IS)
 53 414 4-BROMOPHENYL PHENYL ETHER
 54 433 HEXACHLOROBENZENE
 55 609 PENTACHLOROPHENOL
 56 444 PHENANTHRENE
 57 403 ANTHRACENE
 58 426 DI-N-BUTYLPHTHALATE
 59 431 FLUORANTHENE
 60 *459 D12-CHRYSENE (IS)
 61 445 PYRENE
 62 404 BENZIDENE
 63 415 BUTYLBENZYLPHTHALATE
 64 423 3,3'-DICHLORO BENZIDINE
 65 405 BENZO(A)ANTHRACENE
 66 413 BIS(2-ETHYLHEXYL)PHTHALATE
 67 418 CHRYSENE
 68 429 DI-N-OCTYLPHTHALATE
 69 *D12-BENZO(A)PYRENE (IS)
 70 407 BENZO(B)FLUORANTHENE
 71 409 BENZO(K)FLUORANTHENE
 72 406 BENZO(A)PYRENE
 73 437 INDENO(1,2,3-C,D)PYRENE
 74 419 DIBENZO(A,H)ANTHRACENE
 75 408 BENZO(G,H,I)PERYLENE
 76 619 2-FLUOROPHENOL (SURROGATE)
 77 D5-PHENOL (SURROGATE)
 78 447 D5-NITROBENZENE (SURROGATE)
 79 448 2-FLUOROBIPHENYL (SURROGATE)
 80 TRIBROMOPHENOL (SURROGATE)
 81 D10-PYRENE (SURROGATE)
 82 D14-TERPHENYL (SURROGATE)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	150	751	9:23	1	1.000	A VB	24106.	40.000 NG	0.70
2	74	337	4:13	1	0.449	A BV	17672.	50.000 NG	0.87
3	94	714	8:55	1	0.951	A VV	40248.	50.000 NG	0.87
4	93	709	8:52	1	0.944	A BV	34472.	50.000 NG	0.87
5	93	722	9:01	1	0.961	A VB	34609.	50.000 NG	0.87
6	128	724	9:03	1	0.964	A BB	25078.	50.000 NG	0.87
7	146	745	9:19	1	0.992	A BB	24689.	50.000 NG	0.87
8	146	754	9:25	1	1.004	A BB	28903.	50.000 NG	0.87
9	108	783	9:47	1	1.043	A BV	16886.	50.000 NG	0.87
10	146	783	9:47	1	1.043	A BB	25526.	50.000 NG	0.87
11	108	807	10:05	1	1.075	A BB	23029.	50.000 NG	0.87
12	121	809	10:07	1	1.077	A BB	10100.	50.000 NG	0.87
13	108	831	10:23	1	1.107	A BB	26931.	50.000 NG	0.87
14	130	832	10:24	1	1.108	A BB	5054.	50.000 NG	0.87
15	117	832	10:24	1	1.108	A BB	13967.	50.000 NG	0.87
16	123	851	10:38	1	1.133	A BB	14400.	50.000 NG	0.87
17	136	963	12:02	17	1.000	A BB	51226.	40.000 NG	0.70
18	82	892	11:09	17	0.926	A BB	61466.	50.000 NG	0.87

013913

005238

	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	%TOT
19	139	904	11:18	17	0.939	A BB	11171.	50.000 NG	0.87
20	122	918	11:28	17	0.953	A BB	21910.	50.000 NG	0.87
21	93	934	11:40	17	0.970	A BB	36399.	50.000 NG	0.87
22	105	957	11:58	17	0.994	A VV	30391.	250.000 NG	4.37
23	162	945	11:49	17	0.981	A BB	18181.	50.000 NG	0.87
24	180	958	11:58	17	0.995	A BB	21485.	50.000 NG	0.87
25	128	967	12:05	17	1.004	A BB	75123.	50.000 NG	0.87
26	127	985	12:19	17	1.023	A BV	73902.	250.000 NG	4.37
27	225	1001	12:31	17	1.039	A BB	11072.	50.000 NG	0.87
28	107	1072	13:24	17	1.113	A BB	30281.	50.000 NG	0.87
29	115	1086	13:34	17	1.128	A BB	21019.	50.000 NG	0.87
30	237	1126	14:04	17	1.169	A BB	4714.	50.000 NG	0.87
31	176	1142	14:16	17	1.186	A BV	12113.	50.000 NG	0.87
32	196	1149	14:22	17	1.193	A VB	57600.	250.000 NG	4.37
33	164	1270	15:52	33	1.000	A BB	27824.	40.000 NG	0.70
34	162	1170	14:37	33	0.921	A BB	39569.	50.000 NG	0.87
35	138	1200	15:00	33	0.945	A BV	85282.	250.000 NG	4.37
36	163	1239	15:29	33	0.976	A BB	49922.	50.000 NG	0.87
37	152	1242	15:31	33	0.978	A BB	37619.	50.000 NG	0.87
38	165	1250	15:37	33	0.984	A BB	11195.	50.000 NG	0.87
39	138	1269	15:52	33	0.999	A BV	13706.	250.000 NG	4.37
40	154	1276	15:57	33	1.005	A BB	40384.	50.000 NG	0.87
41	184	1289	16:07	33	1.015	A BV	7601.	250.000 NG	4.37
42	107	1308	16:21	33	1.030	A BV	18535.	125.000 NG	2.19
43	168	1304	16:18	33	1.027	A BB	58070.	50.000 NG	0.87
44	165	1317	16:28	33	1.037	A BB	16622.	50.000 NG	0.87
45	149	1364	17:03	33	1.074	A BB	56141.	50.000 NG	0.87
46	204	1368	17:06	33	1.077	A BB	17867.	50.000 NG	0.87
47	166	1364	17:03	33	1.074	A BB	42873.	50.000 NG	0.87
48	138	1278	17:13	33	1.085	A VV	4261.	250.000 NG	4.37
49	198	1287	17:20	33	1.092	A BB	21177.	250.000 NG	4.37
50	169	1391	17:23	33	1.095	A VB	16648.	50.000 NG	0.87
51	77	1395	17:26	33	1.098	A VV	97481.	50.000 NG	0.87
52	188	1327	19:05	52	1.000	A BB	45789.	40.000 NG	0.70
53	248	1452	18:09	52	0.951	A BB	11864.	50.000 NG	0.87
54	284	1474	18:25	52	0.965	A BB	14788.	50.000 NG	0.87
55	266	1508	18:51	52	0.988	A BB	5372.	50.000 NG	0.87
56	178	1531	19:08	52	1.003	A BV	58357.	50.000 NG	0.87
57	178	1539	19:14	52	1.008	A VB	54879.	50.000 NG	0.87
58	149	1651	20:38	52	1.081	A VV	103635.	50.000 NG	0.87
59	202	1743	21:47	52	1.141	A VV	63811.	50.000 NG	0.87
60	240	2003	23:02	60	1.000	A BV	31727.	40.000 NG	0.70
61	202	1782	22:16	60	0.890	A VV	64787.	50.000 NG	0.87
62	NOT FOUND								
63	149	1917	23:58	60	0.957	A BV	41115.	50.000 NG	0.87
64	NOT FOUND								
65	228	2000	25:00	60	0.999	A BV	53221.	50.000 NG	0.87
66	149	2034	25:25	60	1.015	A BV	62789.	50.000 NG	0.87
67	228	2007	25:05	60	1.002	A VV	50114.	50.000 NG	0.87
68	149	2158	26:58	60	1.077	A BV	106085.	50.000 NG	0.87
69	264	2278	28:28	69	1.000	A BB	28559.	40.000 NG	0.70
70	252	2212	27:39	69	0.971	A*BV	86818.	100.000 NG	1.75
71	252	2212	27:39	69	0.971	A*BV	86818.	100.000 NG	1.75
72	252	2285	28:34	69	1.003	A BV	37795.	50.000 NG	0.87
73	276	2673	33:25	69	1.173	A*BB	20940.	50.000 NG	0.87
74	278	2689	33:37	69	1.180	A BB	16499.	50.000 NG	0.87

013914

	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	275	2782	34:46	67	1.221	A*BB	14930.	50.000 NG	0.87
76	112	364	7:03	1	0.751	A BV	22647.	50.000 NG	0.87
77	99	712	8:54	17	0.739	A BB	31112.	50.000 NG	0.87
78	82	848	10:36	17	0.881	A BB	37347.	50.000 NG	0.87
79	172	1197	14:28	17	1.201	A BB	42248.	50.000 NG	0.87
80	330	1410	17:37	33	1.110	A BB	6971.	50.000 NG	0.87
81	212	1778	22:13	60	0.888	A BV	57580.	50.000 NG	0.87
82	244	1817	22:43	52	1.190	A BV	42807.	50.000 NG	0.87

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:23	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:13	1.00	0.447	1.00	50.00	50.00	0.586	0.586	1.00
3	8:55	1.00	0.951	1.00	50.00	50.00	1.336	1.336	1.00
4	8:52	1.00	0.944	1.00	50.00	50.00	1.144	1.144	1.00
5	9:01	1.00	0.961	1.00	50.00	50.00	1.149	1.149	1.00
6	9:03	1.00	0.964	1.00	50.00	50.00	0.832	0.832	1.00
7	9:19	1.00	0.992	1.00	50.00	50.00	0.886	0.886	1.00
8	9:25	1.00	1.004	1.00	50.00	50.00	0.959	0.959	1.00
9	9:47	1.00	1.043	1.00	50.00	50.00	0.560	0.560	1.00
10	9:47	1.00	1.043	1.00	50.00	50.00	0.847	0.847	1.00
11	10:05	1.00	1.075	1.00	50.00	50.00	0.764	0.764	1.00
12	10:07	1.00	1.077	1.00	50.00	50.00	0.335	0.335	1.00
13	10:23	1.00	1.107	1.00	50.00	50.00	0.894	0.894	1.00
14	10:24	1.00	1.108	1.00	50.00	50.00	0.168	0.168	1.00
15	10:24	1.00	1.108	1.00	50.00	50.00	0.464	0.464	1.00
16	10:38	1.00	1.133	1.00	50.00	50.00	0.478	0.478	1.00
17	12:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:09	1.00	0.926	1.00	50.00	50.00	0.960	0.960	1.00
19	11:18	1.00	0.939	1.00	50.00	50.00	0.174	0.174	1.00
20	11:28	1.00	0.953	1.00	50.00	50.00	0.342	0.342	1.00
21	11:40	1.00	0.970	1.00	50.00	50.00	0.568	0.568	1.00
22	11:58	1.00	0.994	1.00	250.00	250.00	0.095	0.095	1.00
23	11:49	1.00	0.981	1.00	50.00	50.00	0.284	0.284	1.00
24	11:58	1.00	0.995	1.00	50.00	50.00	0.336	0.336	1.00
25	12:05	1.00	1.004	1.00	50.00	50.00	1.173	1.173	1.00
26	12:19	1.00	1.023	1.00	250.00	250.00	0.231	0.231	1.00
27	12:31	1.00	1.039	1.00	50.00	50.00	0.173	0.173	1.00
28	13:24	1.00	1.113	1.00	50.00	50.00	0.473	0.473	1.00
29	13:34	1.00	1.128	1.00	50.00	50.00	0.328	0.328	1.00
30	14:04	1.00	1.167	1.00	50.00	50.00	0.074	0.074	1.00
31	14:16	1.00	1.186	1.00	50.00	50.00	0.189	0.189	1.00
32	14:22	1.00	1.193	1.00	250.00	250.00	0.180	0.180	1.00
33	15:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	14:37	1.00	0.921	1.00	50.00	50.00	1.138	1.138	1.00
35	15:00	1.00	0.945	1.00	250.00	250.00	0.490	0.490	1.00
36	15:29	1.00	0.976	1.00	50.00	50.00	1.435	1.435	1.00
37	15:31	1.00	0.978	1.00	50.00	50.00	1.082	1.082	1.00
38	15:37	1.00	0.984	1.00	50.00	50.00	0.322	0.322	1.00
39	15:52	1.00	0.999	1.00	250.00	250.00	0.079	0.079	1.00
40	15:57	1.00	1.005	1.00	50.00	50.00	1.161	1.161	1.00
41	16:07	1.00	1.015	1.00	250.00	250.00	0.055	0.055	1.00
42	16:21	1.00	1.030	1.00	125.00	125.00	0.213	0.213	1.00
43	16:18	1.00	1.027	1.00	50.00	50.00	1.670	1.670	1.00
44	16:28	1.00	1.037	1.00	50.00	50.00	0.478	0.478	1.00
45	17:03	1.00	1.074	1.00	50.00	50.00	1.614	1.614	1.00
46	17:06	1.00	1.077	1.00	50.00	50.00	0.514	0.514	1.00

013945

	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
40					50.00	50.00	1.233	1.233	1.00
47	17:03	1.00	1.074	1.00	50.00	50.00	0.025	0.025	1.00
48	17:13	1.00	1.085	1.00	250.00	250.00	0.122	0.122	1.00
49	17:20	1.00	1.092	1.00	250.00	250.00	0.479	0.479	1.00
50	17:23	1.00	1.095	1.00	50.00	50.00	2.803	2.803	1.00
51	17:24	1.00	1.098	1.00	50.00	50.00	1.000	1.000	1.00
52	19:05	1.00	1.000	1.00	40.00	40.00	0.207	0.207	1.00
53	18:09	1.00	0.951	1.00	50.00	50.00	0.258	0.258	1.00
54	18:25	1.00	0.965	1.00	50.00	50.00	0.094	0.094	1.00
55	18:51	1.00	0.988	1.00	50.00	50.00	1.020	1.020	1.00
56	19:08	1.00	1.003	1.00	50.00	50.00	0.959	0.959	1.00
57	19:14	1.00	1.008	1.00	50.00	50.00	1.811	1.811	1.00
58	20:38	1.00	1.081	1.00	50.00	50.00	1.115	1.115	1.00
59	21:47	1.00	1.141	1.00	50.00	50.00	1.000	1.000	1.00
60	25:02	1.00	1.000	1.00	40.00	40.00	1.634	1.634	1.00
61	22:16	1.00	0.890	1.00	50.00	50.00	0.009	0.009	1.00
62	22:42		0.890			50.00	1.037	1.037	1.00
63	23:58	1.00	0.957	1.00	50.00	50.00	0.036	0.036	1.00
64	26:09		1.004			50.00	1.342	1.342	1.00
65	25:00	1.00	0.999	1.00	50.00	50.00	1.583	1.583	1.00
66	25:25	1.00	1.015	1.00	50.00	50.00	1.264	1.264	1.00
67	25:05	1.00	1.002	1.00	50.00	50.00	2.675	2.675	1.00
68	26:58	1.00	1.077	1.00	50.00	50.00	1.000	1.000	1.00
69	28:28	1.00	1.000	1.00	40.00	40.00	1.216	1.216	1.00
70	27:39	1.00	0.971	1.00	100.00	100.00	1.216	1.216	1.00
71	27:39	1.00	0.971	1.00	100.00	100.00	1.059	1.059	1.00
72	28:34	1.00	1.003	1.00	50.00	50.00	0.587	0.587	1.00
73	33:25	1.00	1.173	1.00	50.00	50.00	0.462	0.462	1.00
74	33:37	1.00	1.180	1.00	50.00	50.00	0.418	0.418	1.00
75	34:46	1.00	1.221	1.00	50.00	50.00	0.752	0.752	1.00
76	7:03	1.00	0.751	1.00	50.00	50.00	0.486	0.486	1.00
77	8:54	1.00	0.739	1.00	50.00	50.00	0.618	0.618	1.00
78	10:36	1.00	0.881	1.00	50.00	50.00	0.660	0.660	1.00
79	14:28	1.00	1.201	1.00	50.00	50.00	0.200	0.200	1.00
80	17:37	1.00	1.110	1.00	50.00	50.00	1.452	1.452	1.00
81	22:13	1.00	0.888	1.00	50.00	50.00	0.748	0.748	1.00
82	22:43	1.00	1.190	1.00	50.00	50.00			

013916

005241

MASS CHROMATOGRAM
82/13/84 1:22:00
SAMPLE: IUL STD 2342 (11983)
619 2-FLUOROPHENOL (SURROGATE)

HEAD COMPUCHEM
COMPUCHEM DATA: H0840213015 SCANS 516 TO 626

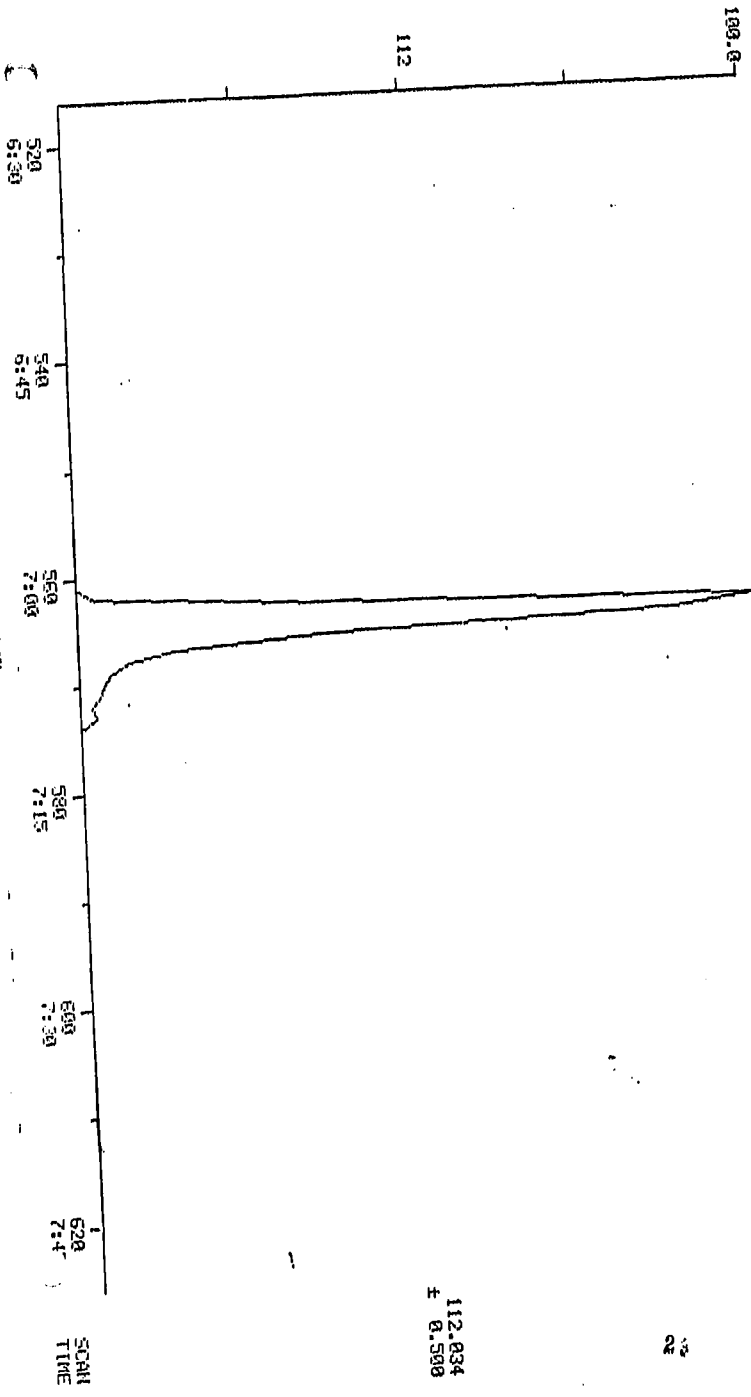
013917

005242

554
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22823.

7640.

112.834
± 0.308

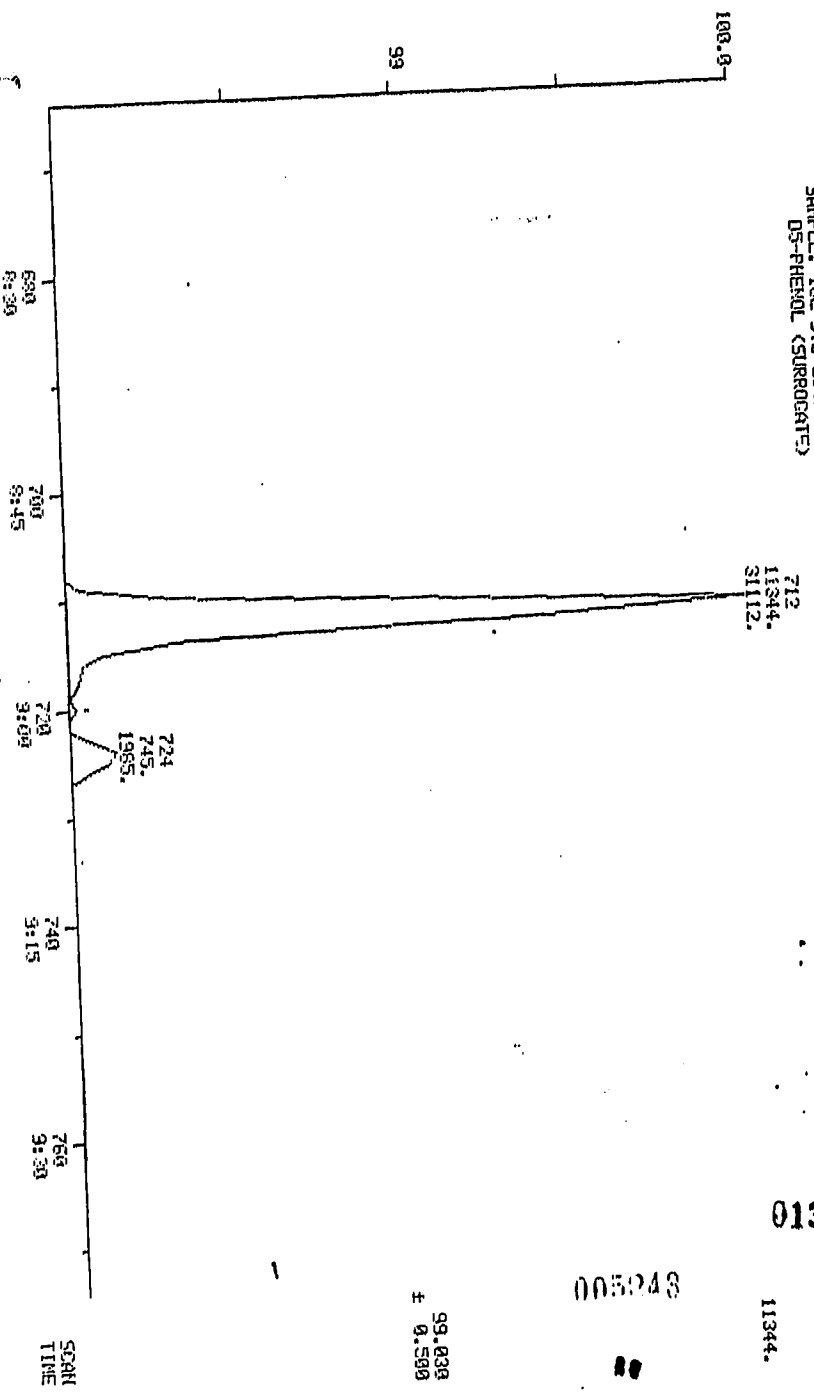


MASS CHROMATOGRAM
02/13/84 1:22:00
SAMPLE: IUL STD 2342 (11009)
DS-PHENOL (SURROGATE)

MEAD COMPUCHEN
COMPUCHEN DATA: HG949213C15 SCANS 654 TO 774

013918

11344.



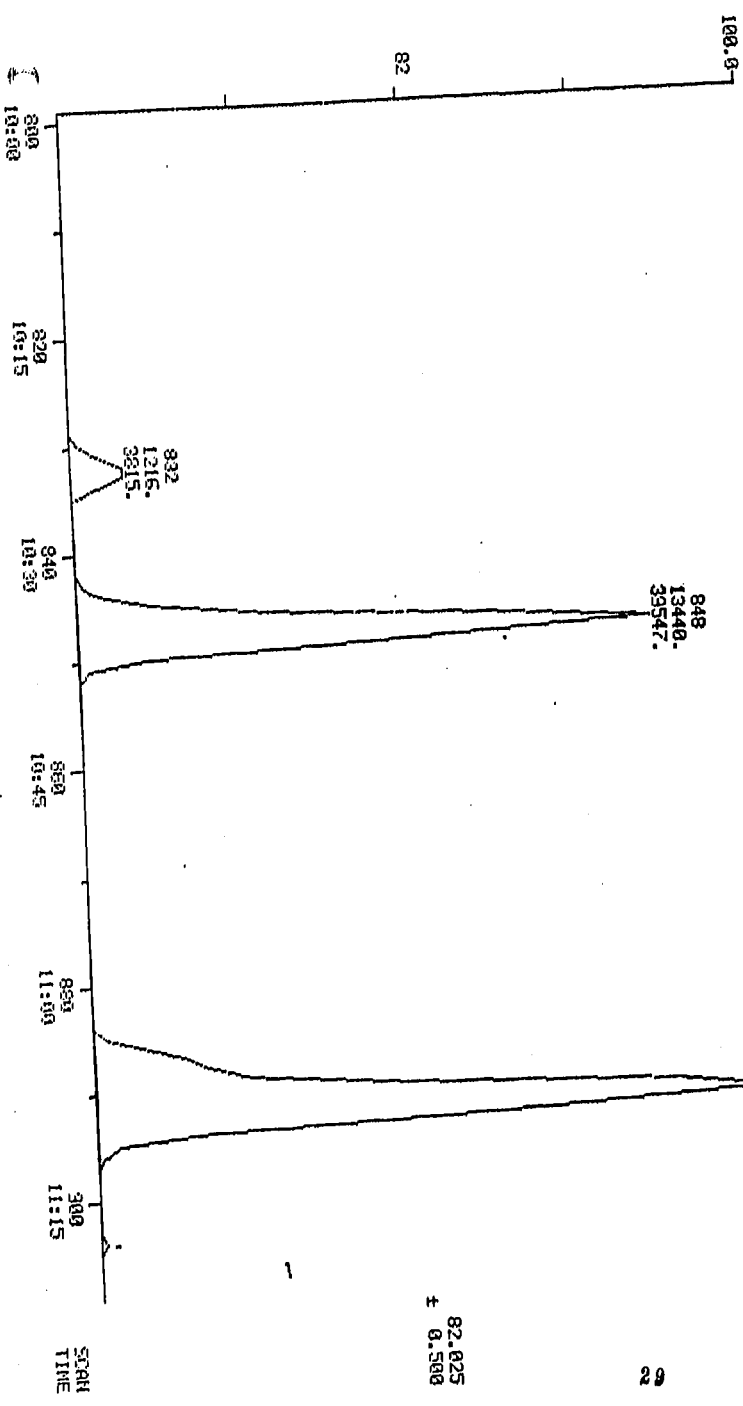
005243

99.038
± 0.500

MASS CHROMATOGRAM
 02/13/84, 1:22:09
 SAMPLE: IUL STD 2342 (11009)
 447 05-NITROBENZENE (SURROGATE)

HEAD COMPUTER
 COMPUTER DATA: HG840213C1S SCANS 799 TO 909

013918
 005244
 15952.

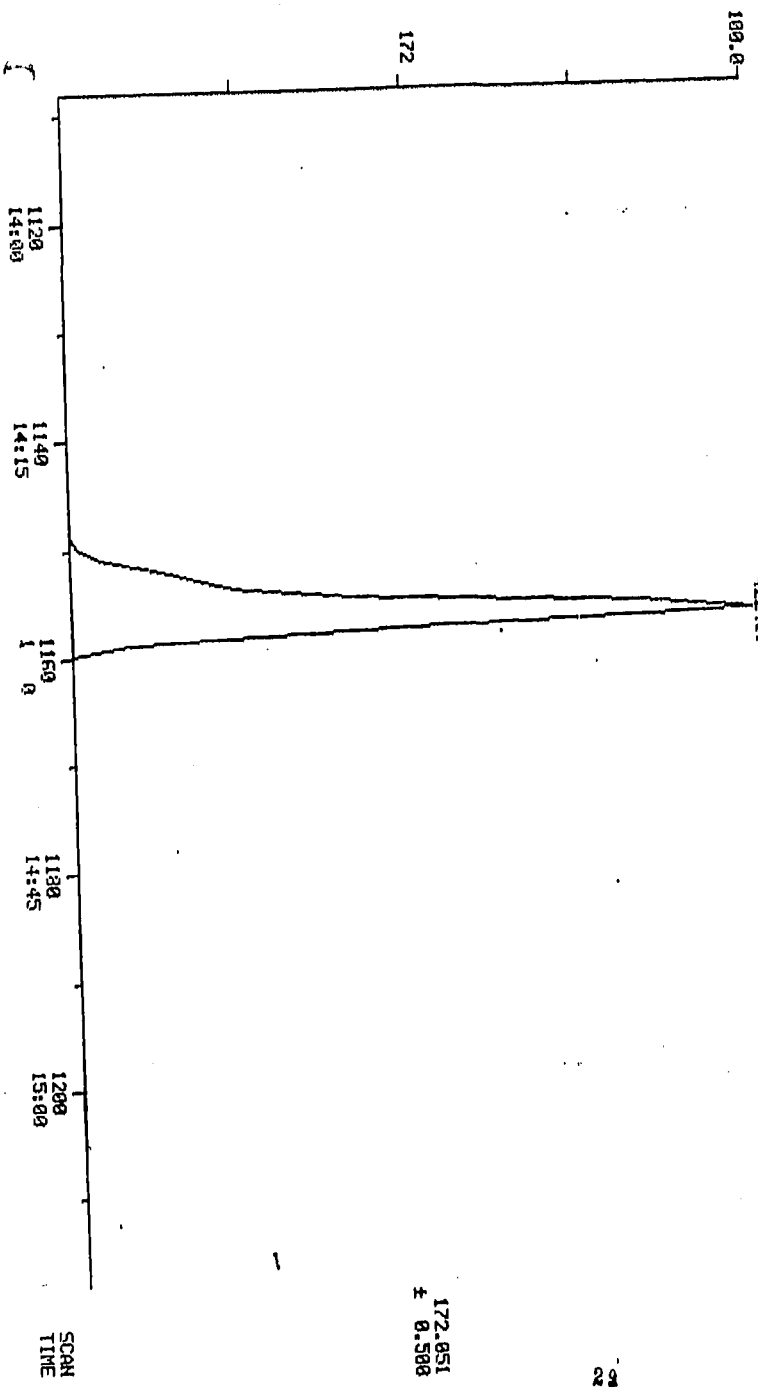


82.825
 ± 0.500

MASS CHROMATOGRAM
02/13/84 1:22:00
SAMPLE: ILE STD 2342 (11009)
448 2-FLUOROBIPHENYL (SURROGATE)

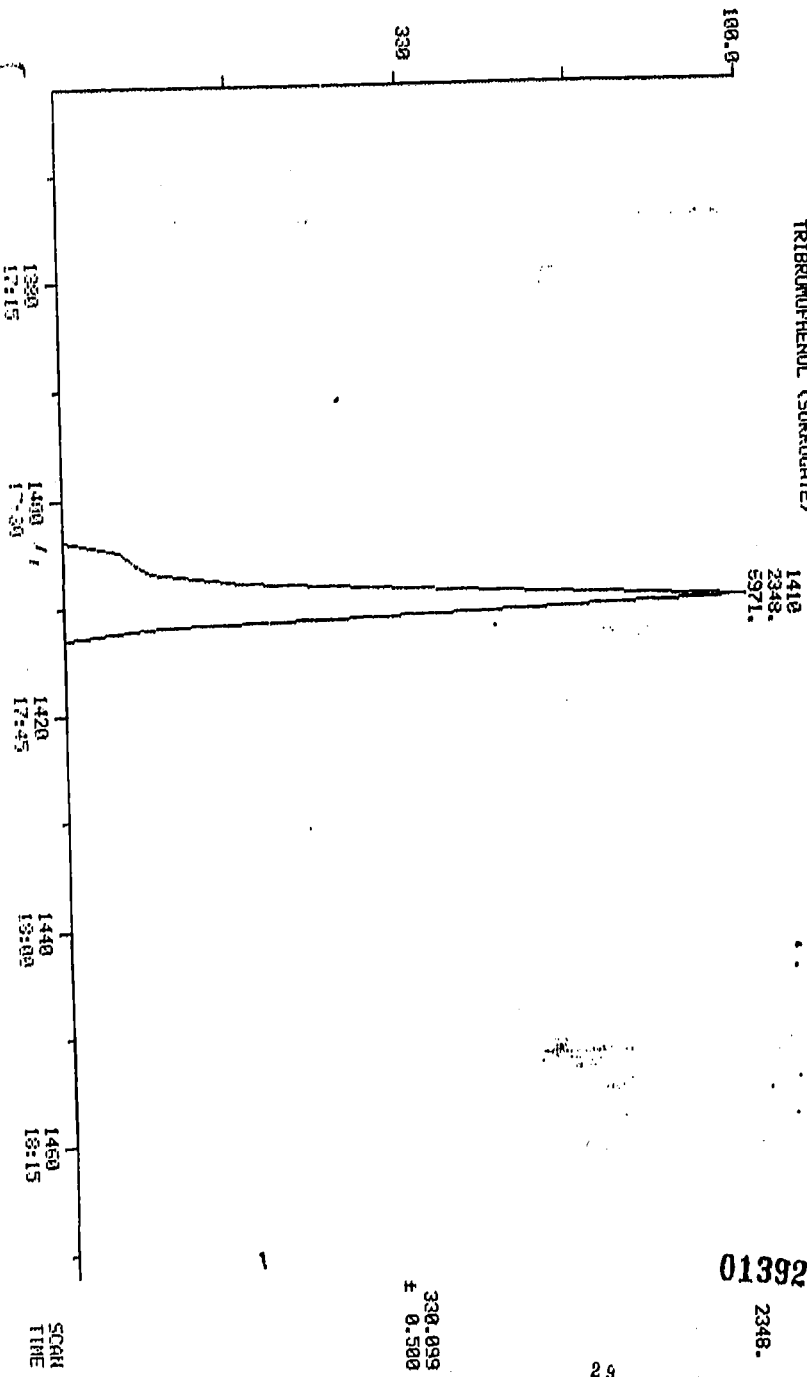
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COMPUCHEN DATA: H084021301S SCANS 1108 TO 6218

01392
005945



MASS CHROMATOGRAM
02/13/84 1:22:00
SAMPLE: IUL STD 2342 (11009)
TRIBROMOPHENOL (SURFERGITE)

HEAD COMPUCHET
COMPUCHET DATA: H0840213C1S SCANS 1362 TO 1472



013921

2348.

005246

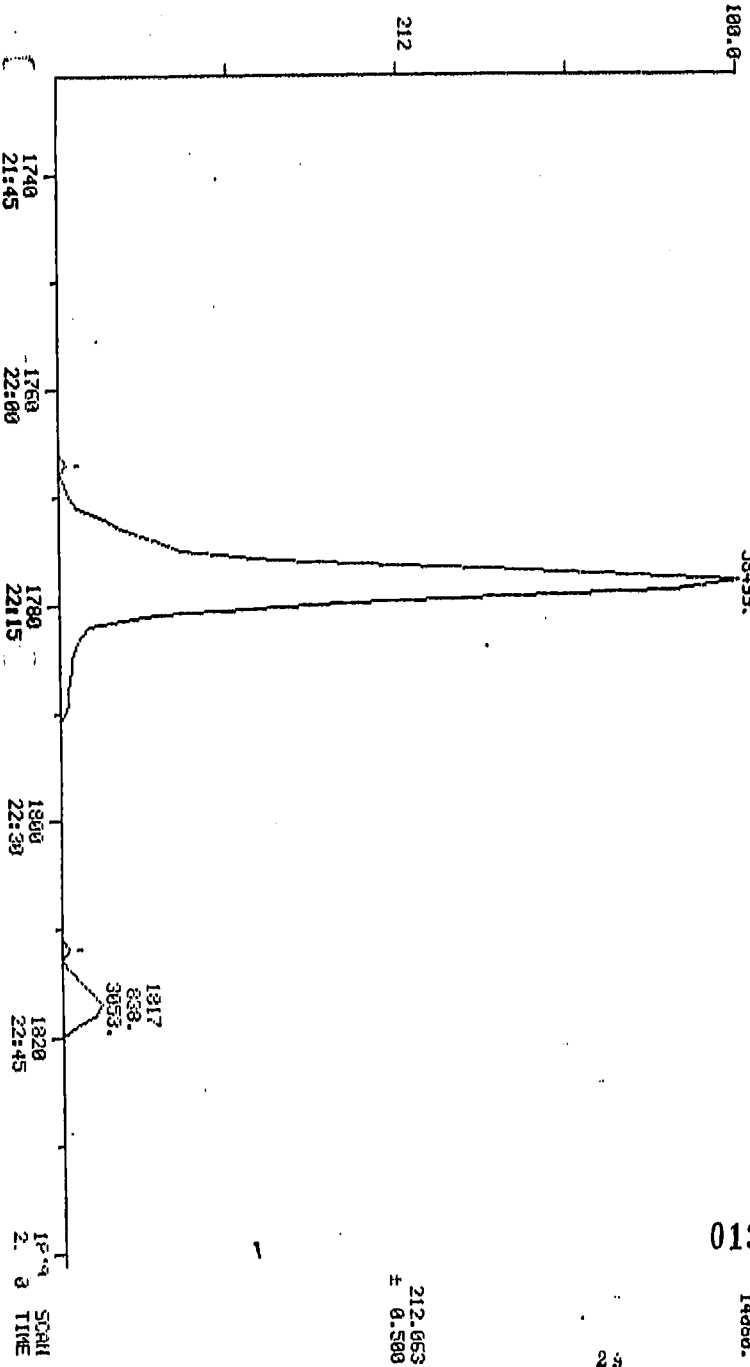
330.093
± 0.500

MASS CHROMATOGRAM
02/13/84 1:22:00
SAMPLE: IUL STD 2342 (11009)
DIB-PYRENE (SURROGATE)

HEAD COMPUCHEM
COMPUCHEM DATA: H0840213C15 SCANS 1731 TO 1841

013922

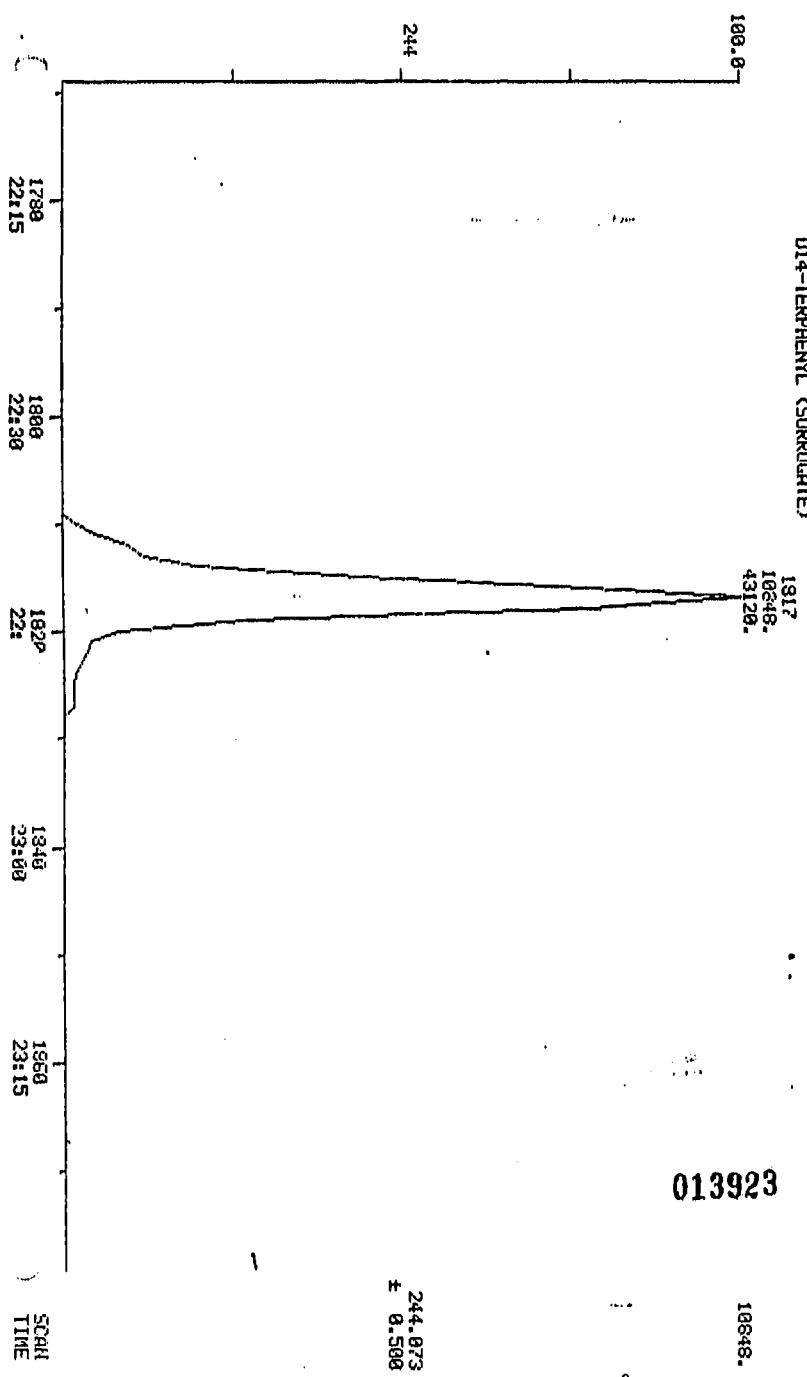
005247



MASS CHROMATOGRAM
02/13/84 1:22:00
SAMPLE: IUL STD 2342 (11009)
D14-TERPHENYL (SURROGATE)

HEAD COMPUCHEN
COMPUCHEN DATA: H0840213C15 SCANS 1769 TO 1879

005948



Head CompuChem GC/MS Analysis Log

Pages Hand, Multiple Copies

Initial Time of Run 1:00
Time Run Elapses 9:00

Shift(s) (A) (B)
Date 2/13/84
Analysis Type ES/SCZ

013925

Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
		1.1	754		154	11005
		1.1	754		151	STD 2342 (11009)
		1.1	754		151	5L IS (11004)
		1.1	754		151	5L IS (11004)
		1.1	754		151	5L IS (11004)
		1.1	754		151	5L IS (11004)
		1.1	754		151	5L IS (11004)
		1.1	754		151	5L IS (11004)
		1.1	754		151	5L IS (11004)
		1.1	64		151	combined + std 11009

F302 'CHECK STANDARD' TITRATION

NO. 15 STANDARD FILE NAME H5840213C15 DATE 2/13/84 OPERATOR 7582

01/9/84

01392
00300

CHECK STANDARD	← THREE POINT MULTI-POINT →			MULTIPOINT AVERAGE RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	50 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR				
1st - Standard Response (10)	1.038	0.932	0.872	0.947	0.959	1	5 Difference < 1%
ADONIS (15)	1.235	1.183	1.149	1.189	1.173	1	5 Difference < 1%
ADONIS (16)	1.218	1.155	1.142	1.172	1.161	< 1	5 Difference < 1%
ADONIS (17)	1.030	1.014	0.999	1.014	1.024 1.171	< 1	5 Difference < 1%
ADONIS (18)	1.361	1.093	1.144	1.331	1.264	5	5 Difference < 1%
ADONIS (19)	1.088	0.878	1.008	0.978	1.059	< 1	5 Difference < 1%
ADONIS (20)	0.935	0.955	0.971	0.954	0.960	< 1	5 Difference < 1%
ADONIS (21)	1.694	1.723	1.679	1.699	1.822	7	5 Difference < 1%
ADONIS (22)	✓	✓	✓	✓	✓	✓	Acceptable Only
ADONIS (23)	✓	✓	✓	✓	✓	✓	Acceptable Only

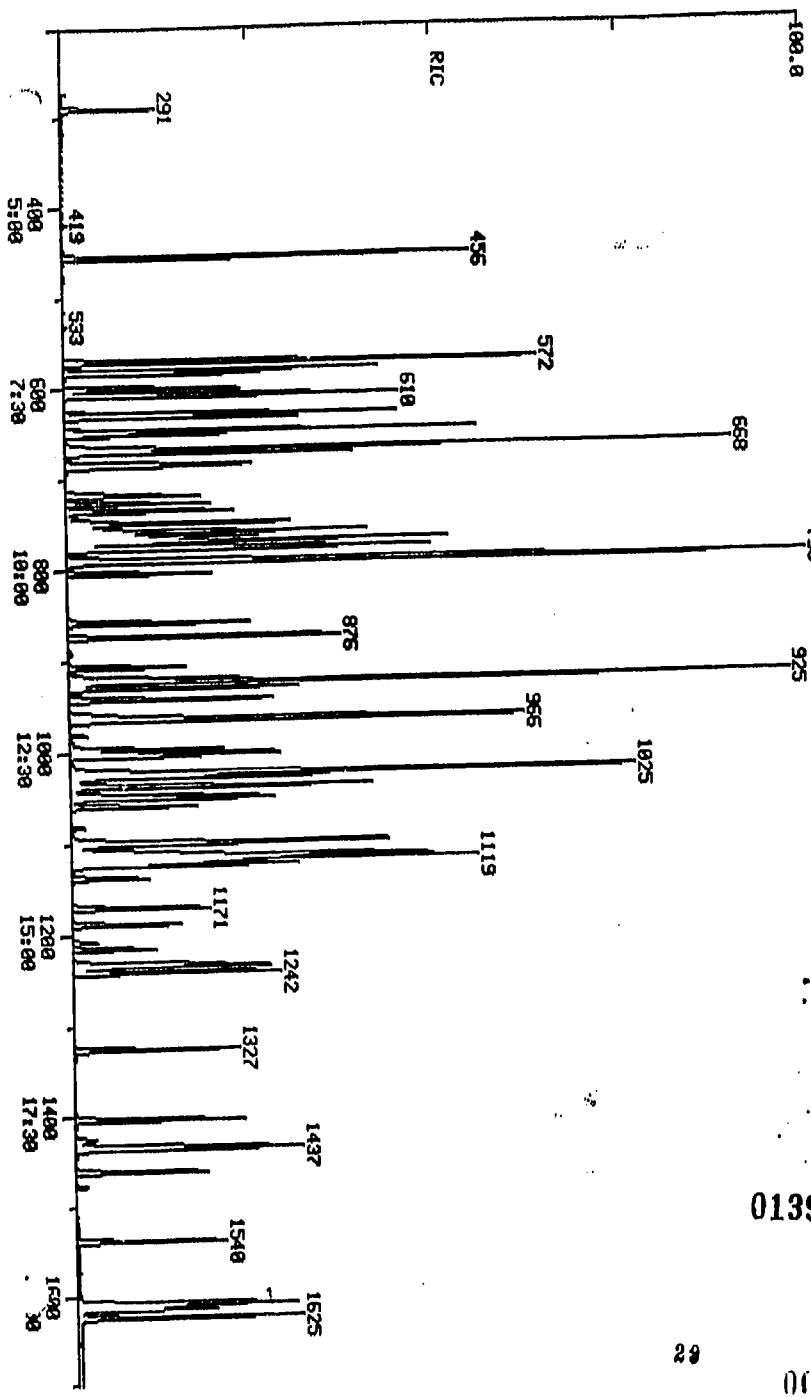
POSTED

HEAD COMPUCHEN

COMPUCHEN DATA: H0340214C28 SQMS 200 TO 1700
OUT OF 200 TO 2600

01392

005952



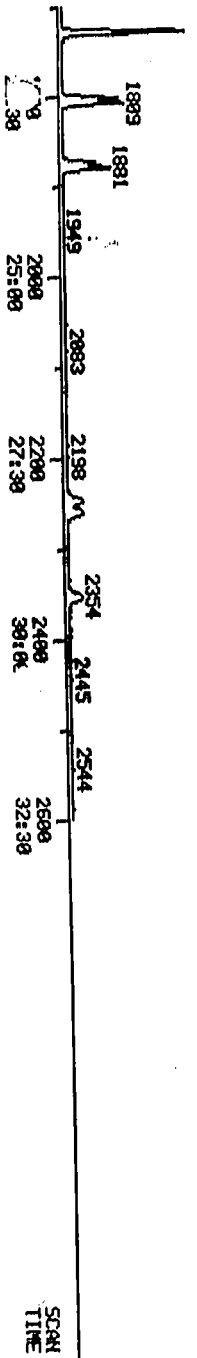
RIC
92/14/94 21:42:00
SAMPLE: 1 UL 50 MC STD #2342(11899) OWA #20

HEAD COMPUTHEN
COMPUCHEN DATA: H0340214C20 SCANS 1700 TO 2600
OUT OF 200 TO 2600

0139
16336

00525

29



PROCEDURE: RK
 DATA FILE: HGB40214C20
 REFERENCE: FBCC7
 METHOD: FBCC7
 REPORT: FBCC7S1

DIAGNOSTIC REPORT

2/14/84 3:19:45

METHOD: FBCC7 INITIALIZATION OPTION: 3 PROCESSING OPTION: 3

< --- STANDARDS --- >				--- PLUS UNKNOWN --- >				> --- LIST NAMES --- >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
4	2	1	0	52	30	1	166	FBCC7S1/FBCC7U1	
2	1	1	0	30	6	1	87	FBCC7S2/FBCC7U2	

82 COMPOUNDS PROCESSED, 36 FOUND

< COMPOUND >		SEARCH						> SAT >		CHRO			
NO	LIB	ENTRY	REF	PRED	BEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	C1	1	-625	608	608	.	1	979	.	150	608	.	1
2	C2	1	-790	776	776	.	1	965	.	136	776	.	1
3	C3	1	-1057	1048	.	.	.	.	.	164	.	.	.
4	C4	1	-1266	1261	.	.	.	.	.	188	.	.	.
5	C1	2	-319	288	.	.	.	.	.	74	291	.	1
6	C1	3	-591	571	573	.	2	989	.	94	573	.	1
7	C1	4	-591	571	.	.	.	.	.	93	573	.	1
8	C1	5	-599	579	581	.	2	970	①	93	581	.	2
9	C1	6	-603	583	584	.	1	978	.	128	584	.	1
10	C1	7	-619	600	601	.	1	979	.	146	601	.	2
11	C1	8	-628	609	610	.	1	989	.	146	610	.	1
12	C1	9	-649	631	630	.	-1	984	.	108	630	.	2
13	C1	10	-651	633	634	.	1	987	.	146	634	.	1
14	C1	11	-666	649	648	.	-1	979	.	108	648	.	2
15	C1	12	-669	652	.	.	.	.	①	121	652	.	3
6	C1	13	-685	668	668	.	1	993	②	108	668	.	2
17	C1	14	-687	670	670	.	1	964	.	130	670	.	2
18	C1	15	-691	675	.	.	.	.	.	117	673	.	1
19	C1	16	-705	689	687	.	-2	987	.	123	687	.	1
20	C2	2	-735	720	719	.	-1	966	.	82	719	.	1
21	C2	3	-745	731	728	.	-3	989	.	139	728	.	1
22	C2	4	-752	738	736	.	-2	991	.	122	736	.	1
23	C2	5	-765	752	750	.	-2	957	.	93	750	.	2
24	C2	6	-786	773	770	.	-3	956	.	105	770	.	1
25	C2	7	-774	761	760	.	-1	993	.	162	760	.	2
26	C2	8	-785	772	770	.	-2	986	.	180	770	.	1
27	C2	9	-792	780	779	.	-1	966	①	128	779	.	1
28	C2	10	-805	793	793	.	1	986	①	127	793	.	1
29	C2	11	-817	806	806	.	1	989	.	225	806	.	1
30	C2	12	-868	859	860	.	1	988	.	107	860	.	1
31	C2	13	-883	874	876	.	2	957	.	115	876	.	1
32	C2	14	-914	906	908	.	2	957	.	237	907	-1	1
33	C2	15	-930	923	925	.	2	977	.	196	925	.	1
34	C2	16	-930	923	925	.	2	994	.	196	925	.	1
35	C3	2	-948	942	943	.	1	986	.	162	943	.	1
36	C3	3	-969	964	.	.	.	.	.	138	966	.	1
37	C3	4	-999	995	.	.	.	.	.	163	997	.	1
38	C3	5	-1006	1002	1002	.	1	978	.	152	1002	.	1
39	C3	6	-1008	1004	.	.	.	.	.	165	1006	.	1
40	C3	7	-1027	1024	.	.	.	.	.	138	1026	.	1
41	C3	8	-1031	1028	.	.	.	.	.	154	1029	.	1
42	C3	9	-1040	1038	.	.	.	.	.	184	1039	13929	1
43	C3	10	-1050	1048	.	.	.	.	.	109	1049	.	1
44	C3	11	-1053	1051	.	.	.	.	.	168	1052	.	1
45	C3	12	-1061	1059	.	.	.	.	.	165	1060	.	1
46	C3	13	-1098	1098	.	.	.	.	.	149	1099	.	1
47	C3	14	-1103	1103	.	.	.	.	.	204	1102	.	1
48	C3	15	-1101	1101	.	.	.	.	.	166	1100	.	1

49	C3	16	-1114	1116										
50	C3	17	-1117	1118								198	1119	1
51	C3	18	-1121	1122								169	1121	1
52	C3	19	-1125	1126								77	1125	1
53	C5	1	-1608	1612	1612		1	861				240	1612	1
54	C6	1	-1867	1872								264	1874	1
55	C4	2	-1169	1170	1171	1	1	956				248	1170	-1
56	C4	3	-1189	1190	1189	-1	1	990				284	1189	1
57	C4	4	-1213	1215	1215		1	980				266	1215	1
58	C4	5	-1233	1235	1235		1	958				178	1235	1
59	C4	6	-1244	1246								178	1249	1
60	C4	7	-1537	1540								149	1540	1
61	C4	8	-1605	1609								202	1609	1
62	C5	2	-1189	1190								202		
63	C5	3	-1497	1500								184		
64	C5	4	-1537	1540	1540		1	980				149	1540	1
65	C5	5	-1648	1652								252		
66	C5	6	-1605	1609								228	1609	1
67	C5	7	-1621	1625								149	1625	1
68	C5	8	-1612	1616								228	1615	1
69	C5	9	-1699	1703								149		
70	C6	2	-1807	1812								252	1809	1
71	C6	3	-1803	1808								252	1809	1
72	C6	4	-1873	1878								252	1881	1
73	C6	5	-2233	2240								276		
74	C6	6	-2245	2252								278	2249	1
75	C6	7	-2339	2347								276		
76	C7	2	-481	478								112		
77	C7	3	-603	601								99		
78	C7	4	-716	715								82		
79	C7	5	-962	962								172		
80	C7	6	-1170	1171								330		
81	C7	7	-1470	1473								212		
82	C7	8	-1497	1500								244		

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0059.65

QUANTITATION REPORT FILE: HGB40214C20

DATA: HGB40214C20.TI

02/14/84 2:42:00

SAMPLE: 1 UL 50 NG STD #2342(11009) OWA #20

SUBMITTED BY: 20

ANALYST: 763

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

NO	NAME
1	*04-1, 4-DICHLOROBENZENE (IS)
2	441 N-NITROSODIMETHYAMINE
3	610 PHENOL
4	473 ANILINE
5	411 BIS(2-CHLOROETHYL)ETHER
6	601 2-CHLOROPHENOL
7	421 1, 3-DICHLOROBENZENE
8	422 1, 4-DICHLOROBENZENE
9	474 BENZYL ALCOHOL
10	420 1, 2-DICHLOROBENZENE
11	620 2-METHYLPHENYL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSO-DI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	440 NITROBENZENE
17	*460 DB-NAPHTHALENE (IS)
18	438 ISOPHRONE
19	606 2-NITROPHENOL
20	603 2, 4-DIMETHYLPHENOL
21	410 BIS(2-CHLOROETHOXY)METHANE
22	625 BENZOIC ACID
23	602 2, 4-DICHLOROPHENOL
24	446 1, 2, 4-TRICHLOROBENZENE
25	439 NAPHTHALENE
26	475 4-CHLOROANILINE
27	434 HEXACHLOROBUTADIENE
28	608 P-CHLORO-M-CRESOL
29	477 2-METHYLNAPHTHALENE
30	435 HEXACHLOROCYCLOPENTADIENE
31	611 2, 4, 6-TRICHLOROPHENOL
32	626 2, 4, 5-TRICHLOROPHENOL
33	*010-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	425 DIMETHYLPHTHALATE
37	402 ACENAPHTHYLENE
38	428 2, 6-DINITROTOLUENE
39	478 2-NITROANILINE
40	401 ACENAPHTHENE
41	605 2, 4-DINITROPHENOL
42	607 4-NITROPHENOL
43	476 DIBENZOFURAN
44	427 2, 4-DINITROTOLUENE
45	424 DIETHYLPHTHALATE
46	417 4-CHLOROPHENYL PHENYL ETHER

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NO NAME
 47 432 FLUORENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-O-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSO)
 51 430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE)
 52 *467 D10-PHENANTHRENE (IS)
 53 414 4-BROMOPHENYL PHENYL ETHER
 54 433 HEXACHLOROBENZENE
 55 609 PENTACHLOROPHENOL
 56 444 PHENANTHRENE
 57 403 ANTHRACENE
 58 426 DI-N-BUTYLPHTHALATE
 59 431 FLUORANTHENE
 60 *459 D12-CHRYSENE (IS)
 61 445 PYRENE
 62 404 BENZIDENE
 63 415 BUTYLBENZYLPHTHALATE
 64 423 3,3'-DICHLOROBENZIDINE
 65 405 BENZO(A)ANTHRACENE
 66 413 BIS(2-ETHYLHEXYL)PHTHALATE
 67 418 CHRYSENE
 68 429 DI-N-OCTYLPHTHALATE
 69 *D12-BENZO(A)PYRENE (IS)
 70 407 BENZO(B)FLUORANTHENE
 71 409 BENZO(K)FLUORANTHENE
 72 406 BENZO(A)PYRENE
 73 437 INDENO(1,2,3-C,D)PYRENE
 74 419 DIBENZO(A,H)ANTHRACENE
 5 408 BENZO(G,H,I)PERYLENE
 76 619 2-FLUOROPHENOL (SURROGATE)
 77 05-PHENOL (SURROGATE)
 78 447 05-NITROBENZENE (SURROGATE)
 79 448 2-FLUOROBIPHENYL (SURROGATE)
 80 TRIBROMOPHENOL (SURROGATE)
 81 D10-PYRENE (SURROGATE)
 82 D14-TERPHENYL (SURROGATE)

Peak
2-14-84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	150	608	7:36	1	1.000	A VB	81122.	40.000 NG	0.70
2	74	291	3:38	1	0.479	A BV	87372.	49.998 NG	0.87
3	94	573	7:10	1	0.942	A BB	145408.	49.998 NG	0.87
4	93	573	7:10	1	0.942	A BV	195855.	49.998 NG	0.87
5	93	581	7:16	1	0.956	A*VB	145046.	49.998 NG	0.87
6	128	584	7:18	1	0.961	A BB	104987.	49.998 NG	0.87
7	146	601	7:31	1	0.988	A*BV	82713.	49.998 NG	0.87
8	146	610	7:37	1	1.003	A VB	90955.	49.998 NG	0.87
9	108	630	7:52	1	1.036	A*BV	82486.	49.998 NG	0.87
10	146	634	7:55	1	1.043	A BB	80845.	49.998 NG	0.87
11	108	648	8:06	1	1.066	A*BV	117001.	49.998 NG	0.87
12	121	652	8:07	1	1.072	A*BB	27581.	49.998 NG	0.87
13	108	668	8:21	1	1.079	A*BB	142047.	49.998 NG	0.87
14	130	670	8:22	1	1.102	A*BB	16134.	49.998 NG	0.87
15	117	673	8:25	1	1.107	A VB	34313.	49.998 NG	0.87
16	123	687	8:35	1	1.130	A VB	34412.	49.998 NG	0.87
17	136	776	9:42	17	1.000	A BB	160448.	40.000 NG	0.70
18	82	719	8:59	17	0.927	A BB	146272.	49.998 NG	0.87

019952

005057

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	276	2354	29:25	69	1.256	A BB	25562.	49.998 NG	0.87
74	112	456	5:42	1	0.750	A BB	162618.	49.998 NG	0.87
	99	571	7:08	17	0.736	A BB	122711.	49.998 NG	0.87
78	82	719	8:59	17	0.927	A BB	146272.	49.998 NG	0.87
79	172	931	11:38	17	1.200	A BB	114695.	49.998 NG	0.87
80	330	1137	14:13	33	1.109	A BB	9783.	49.998 NG	0.87
81	212	1435	17:56	60	0.890	A BB	106348.	49.998 NG	0.87
82	244	463	18:17	52	1.187	A BB	72526.	49.998 NG	0.87

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	7:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:38	1.00	0.479	1.00	50.00	50.00	0.862	0.862	1.00
3	7:10	1.00	0.942	1.00	50.00	50.00	1.434	1.434	1.00
4	7:10	1.00	0.942	1.00	50.00	50.00	1.932	1.932	1.00
5	7:16	1.00	0.956	1.00	50.00	50.00	1.430	1.430	1.00
6	7:18	1.00	0.961	1.00	50.00	50.00	1.035	1.035	1.00
7	7:31	1.00	0.988	1.00	50.00	50.00	0.816	0.816	1.00
8	7:37	1.00	1.003	1.00	50.00	50.00	0.897	0.897	1.00
9	7:52	1.00	1.036	1.00	50.00	50.00	0.813	0.813	1.00
10	7:55	1.00	1.043	1.00	50.00	50.00	0.797	0.797	1.00
11	8:06	1.00	1.066	1.00	50.00	50.00	1.154	1.154	1.00
12	8:09	1.00	1.072	1.00	50.00	50.00	0.272	0.272	1.00
13	8:21	1.00	1.099	1.00	50.00	50.00	1.401	1.401	1.00
14	8:22	1.00	1.102	1.00	50.00	50.00	0.159	0.159	1.00
15	8:25	1.00	1.107	1.00	50.00	50.00	0.338	0.338	1.00
16	8:35	1.00	1.130	1.00	50.00	50.00	0.339	0.339	1.00
17	9:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	8:59	1.00	0.927	1.00	50.00	50.00	0.729	0.729	1.00
	9:06	1.00	0.938	1.00	50.00	50.00	0.186	0.186	1.00
20	9:12	1.00	0.948	1.00	50.00	50.00	0.279	0.279	1.00
21	9:22	1.00	0.966	1.00	50.00	50.00	0.657	0.657	1.00
22	9:37	1.00	0.992	1.00	249.99	249.99	0.095	0.095	1.00
23	9:30	1.00	0.979	1.00	50.00	50.00	0.271	0.271	1.00
24	9:37	1.00	0.992	1.00	50.00	50.00	0.312	0.312	1.00
25	9:44	1.00	1.004	1.00	50.00	50.00	1.073	1.073	1.00
26	9:55	1.00	1.022	1.00	249.99	249.99	0.467	0.467	1.00
27	10:04	1.00	1.039	1.00	50.00	50.00	0.131	0.131	1.00
28	10:45	1.00	1.108	1.00	50.00	50.00	0.407	0.407	1.00
29	10:57	1.00	1.129	1.00	50.00	50.00	0.240	0.240	1.00
30	11:20	1.00	1.169	1.00	50.00	50.00	0.125	0.125	1.00
31	11:34	1.00	1.192	1.00	50.00	50.00	0.826	0.826	1.00
32	11:34	1.00	1.192	1.00	250.00	250.00	0.165	0.165	1.00
33	12:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	11:47	1.00	0.920	1.00	50.00	50.00	1.208	1.208	1.00
35	12:04	1.00	0.942	1.00	249.99	249.99	0.577	0.577	1.00
36	12:28	1.00	0.973	1.00	50.00	50.00	1.252	1.252	1.00
37	12:31	1.00	0.978	1.00	50.00	50.00	1.908	1.908	1.00
38	12:34	1.00	0.981	1.00	50.00	50.00	0.275	0.275	1.00
39	12:49	1.00	1.001	1.00	249.99	249.99	0.460	0.460	1.00
40	12:52	1.00	1.004	1.00	50.00	50.00	1.145	1.145	1.00
41	12:59	1.00	1.014	1.00	249.99	249.99	0.150	0.150	1.00
42	13:07	1.00	1.023	1.00	125.00	125.00	0.176	0.176	1.00
43	13:09	1.00	1.026	1.00	50.00	50.00	1.632	1.632	1.00
44	13:15	1.00	1.034	1.00	50.00	50.00	0.352	0.352	1.00
45	13:44	1.00	1.072	1.00	50.00	50.00	1.503	1.503	1.00
5	13:46	1.00	1.075	1.00	50.00	50.00	0.485	0.485	1.00

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005259

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	13:45	1.00	1.073	1.00	50.00	50.00	1.307	1.307	1.00
48	13:56	1.00	1.088	1.00	249.99	249.99	0.377	0.377	1.00
	13:59	1.00	1.092	1.00	249.99	249.99	0.204	0.204	1.00
50	14:01	1.00	1.094	1.00	50.00	50.00	0.863	0.863	1.00
51	14:04	1.00	1.098	1.00	50.00	50.00	2.271	2.271	1.00
52	15:24	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	14:37	1.00	0.950	1.00	50.00	50.00	0.171	0.171	1.00
54	14:52	1.00	0.965	1.00	50.00	50.00	0.198	0.198	1.00
55	15:11	1.00	0.986	1.00	50.00	50.00	0.121	0.121	1.00
56	15:26	1.00	1.002	1.00	50.00	50.00	1.160	1.160	1.00
57	15:31	1.00	1.008	1.00	50.00	50.00	1.044	1.044	1.00
58	16:35	1.00	1.077	1.00	50.00	50.00	1.634	1.634	1.00
59	20:07	1.00	1.306	1.00	50.00	50.00	0.030	0.030	1.00
60	20:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	20:11	1.00	1.002	1.00	50.00	50.00	0.059	0.059	1.00
62	20:09	1.00	1.000	1.00	50.00	50.00	0.007	0.007	1.00
63	19:15	1.00	0.955	1.00	50.00	50.00	1.151	1.151	1.00
64	20:07	1.00	0.998	1.00	50.00	50.00	0.356	0.356	1.00
65	20:07	1.00	0.998	1.00	50.00	50.00	1.519	1.519	1.00
66	20:19	1.00	1.008	1.00	50.00	50.00	1.752	1.752	1.00
67	20:11	1.00	1.002	1.00	50.00	50.00	1.268	1.268	1.00
68	21:37	1.00	1.073	1.00	50.00	50.00	2.773	2.773	1.00
69	23:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	22:33	1.00	0.963	1.00	50.00	50.00	1.380	1.380	1.00
71	22:37	1.00	0.965	1.00	50.00	50.00	1.124	1.124	1.00
72	23:31	1.00	1.004	1.00	50.00	50.00	1.129	1.129	1.00
73	28:06	1.00	1.200	1.00	50.00	50.00	0.760	0.760	1.00
74	28:14	1.00	1.205	1.00	50.00	50.00	0.764	0.764	1.00
75	29:25	1.00	1.256	1.00	50.00	50.00	0.723	0.723	1.00
76	5:42	1.00	0.750	1.00	50.00	50.00	1.604	1.604	1.00
77	7:08	1.00	0.736	1.00	50.00	50.00	0.612	0.612	1.00
78	8:59	1.00	0.927	1.00	50.00	50.00	0.729	0.729	1.00
79	11:38	1.00	1.200	1.00	50.00	50.00	0.572	0.572	1.00
80	14:13	1.00	1.109	1.00	50.00	50.00	0.116	0.116	1.00
81	17:56	1.00	0.890	1.00	50.00	50.00	1.874	1.874	1.00
82	18:17	1.00	1.187	1.00	50.00	50.00	0.645	0.645	1.00

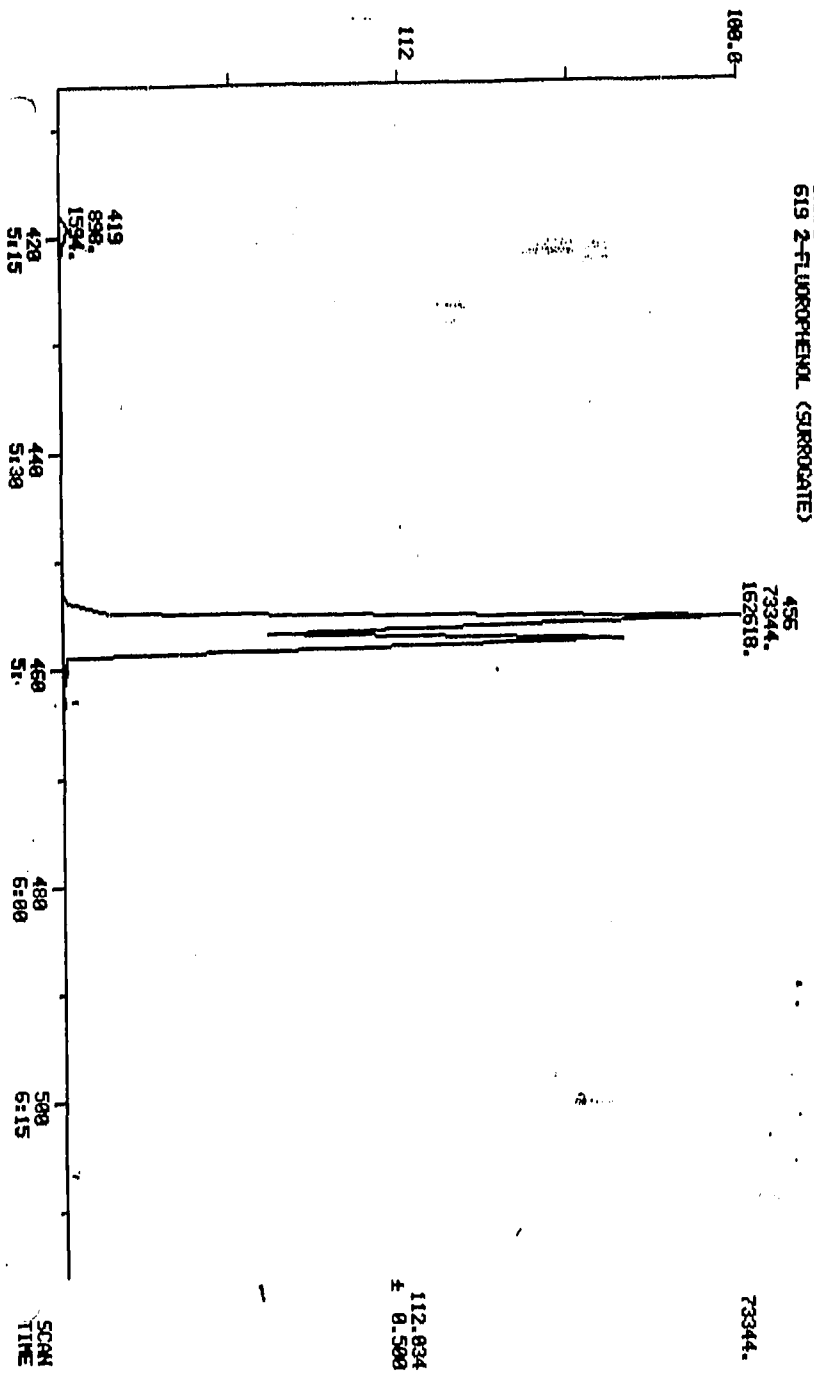
013935

005260

MASS CHROMATOGRAM
02/14/84 2:42:00
SAMPLE: 1 U. 50 NG STD #2342(11099) OVA #28
619 2-FLUOROPHENOL (SURROGATE)

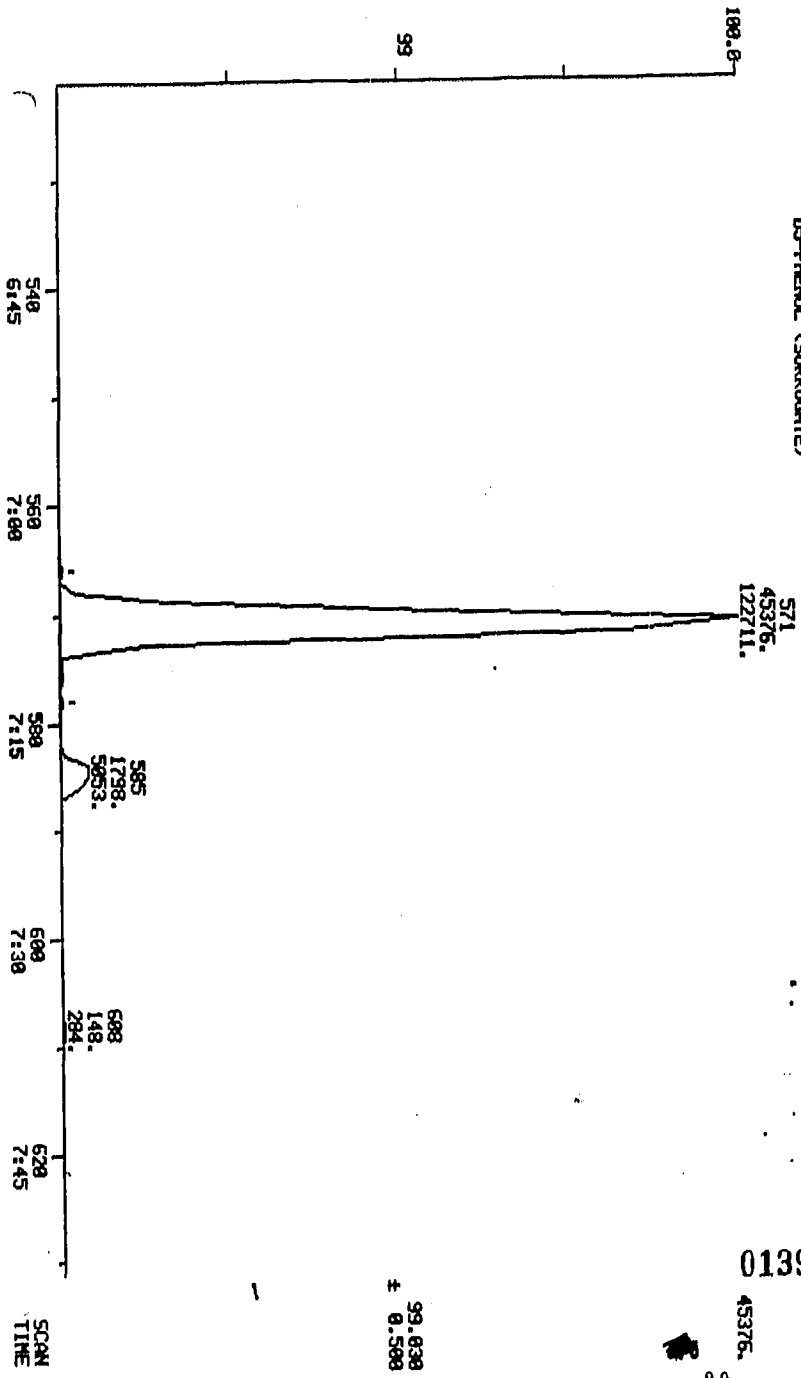
HEAD CHROMACHEN
CHROMACHEN DATA: H0349214C28 SCANS 406 TO 506

015936
005261



MASS CHROMATOGRAM
02/14/84 2:42:08
SAMPLE: 1 U. 50 NG STD #2342(11089) 040 #28
DS-PHENOL (SURROGATE)

HEAD COMPUTER
COMPUCHEN DATA: H0340214C28 SCANS 521 TO 631



013937

45376.

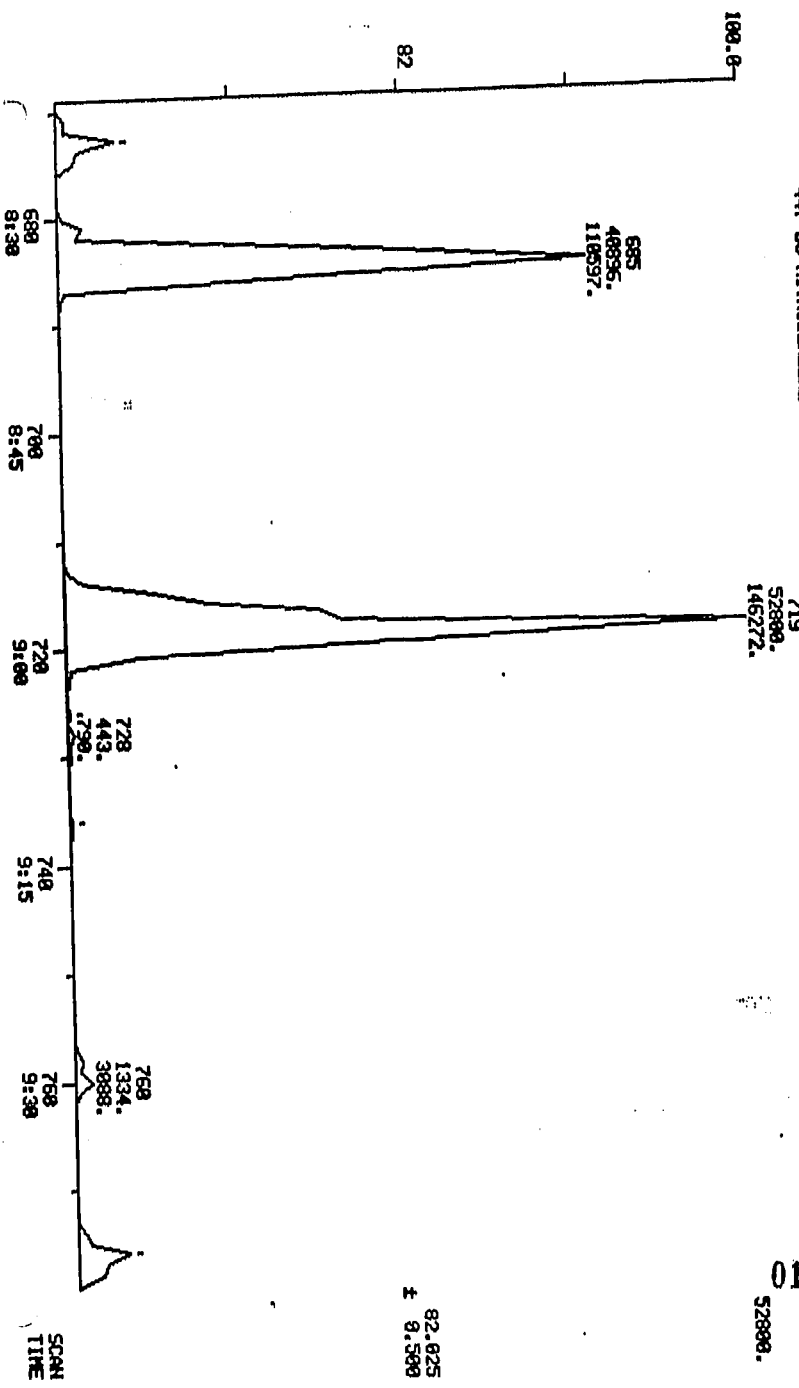
29

005202

99.030
± 0.500

MASS CHROMATOGRAM
82/14/94 2:42:08
SAMPLE 1 U. 50 NG STD #2342(11893) OMA #28
447 DS-NITROBENZENE (SIMROGATE)

HEAD COMPUCHEN
COMPUCHEN DATA: H8848214C28 SCANS 659 TO 729



013938 729

52888.

005263

29

MASS CHROMATOGRAM
02/14/84 21:42:00
SAMPLE: 1 UL 50 NG STD #2342(11883) OMA #28
448 2-FLUOROBIPHENYL (SURROGATE)

HEAD COMPUCHEN
COMPUCHEN DATA: H0948214C20 SCANS 881570 991

01399

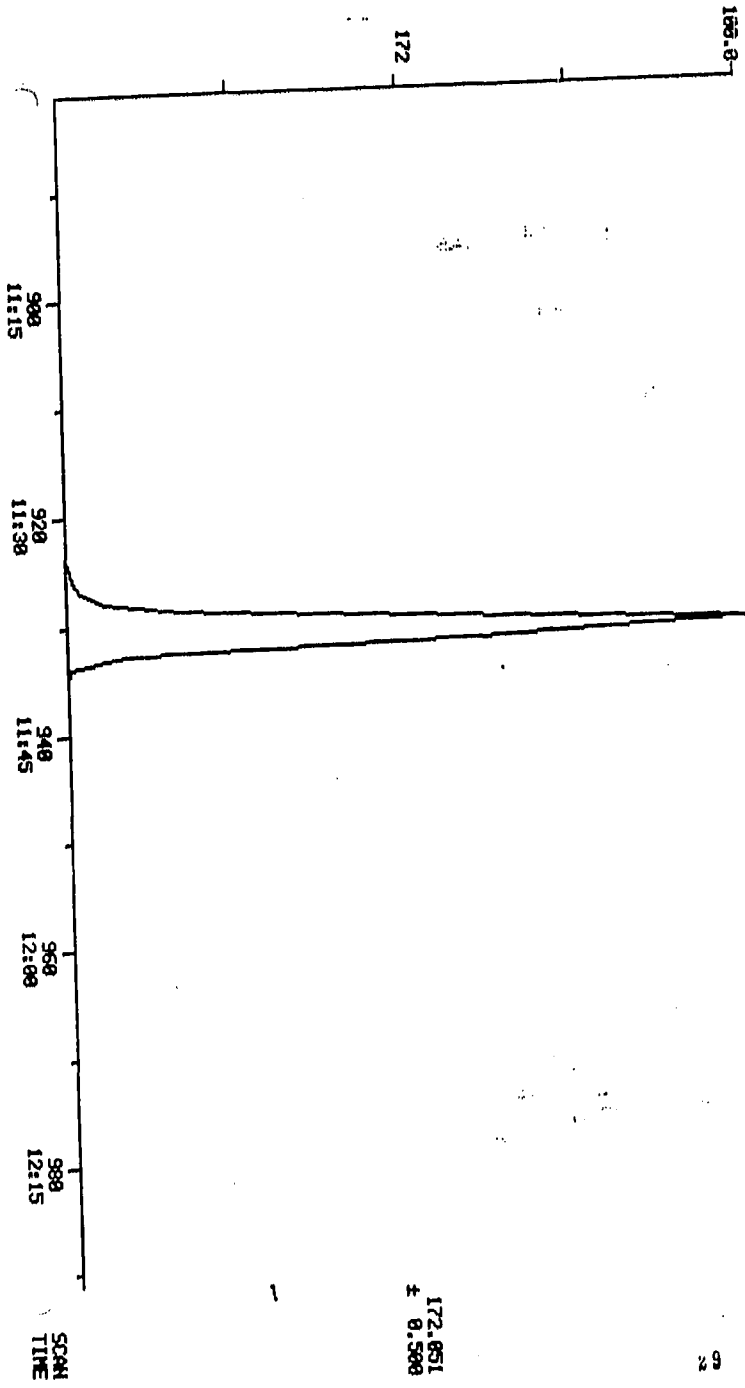
005964

991
45440.
114595.

45440.

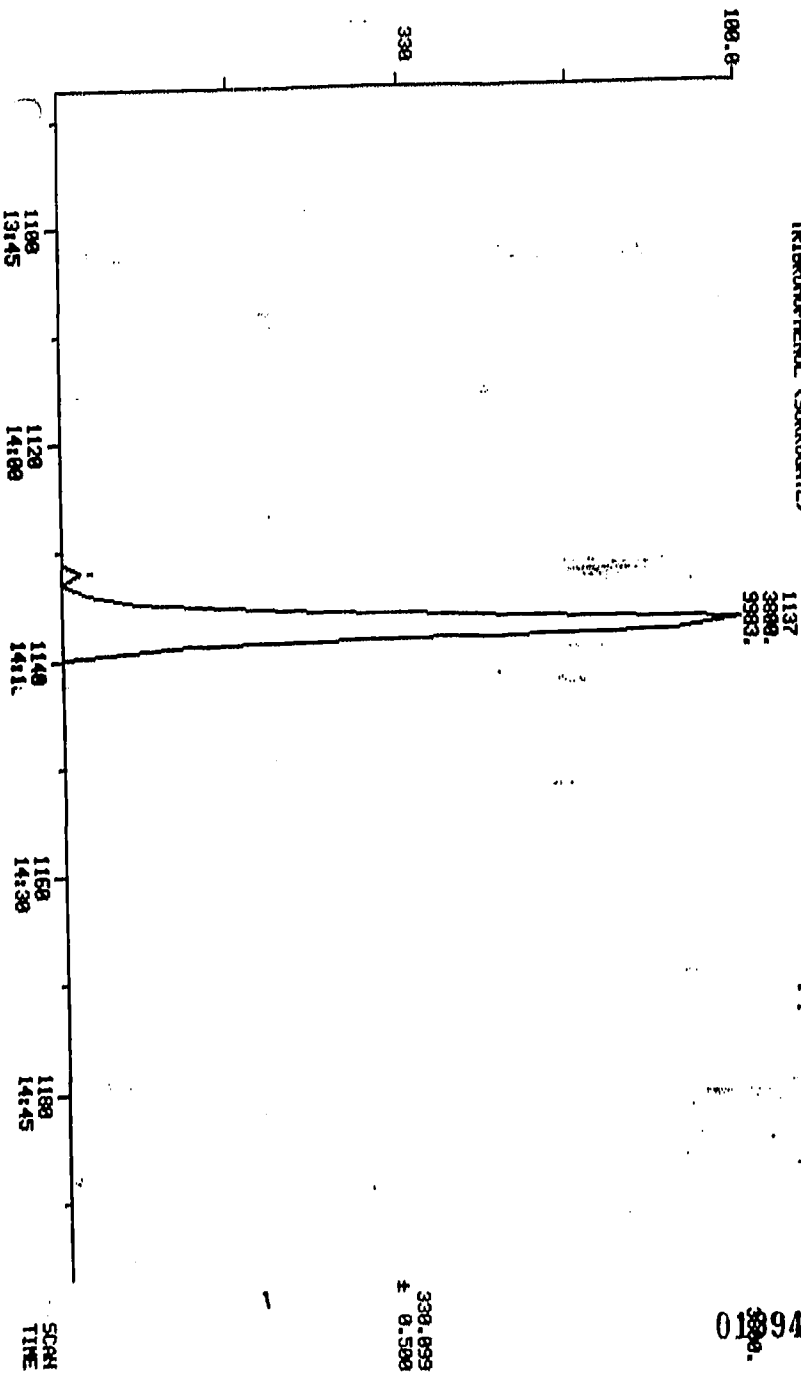
172

172.651
± 0.500



MASS CHROMATOGRAM
02/14/84 2:42:08
SAMPLE 1 UL 50 NG STD #2342(1189) OVA #28
TRIBROMOPHENOL (SURROGATE)

NEED CONFUCHEN
CONFUCHEN DATA HS848214C28 SCANS 1087 TO 1197



0188940

005265

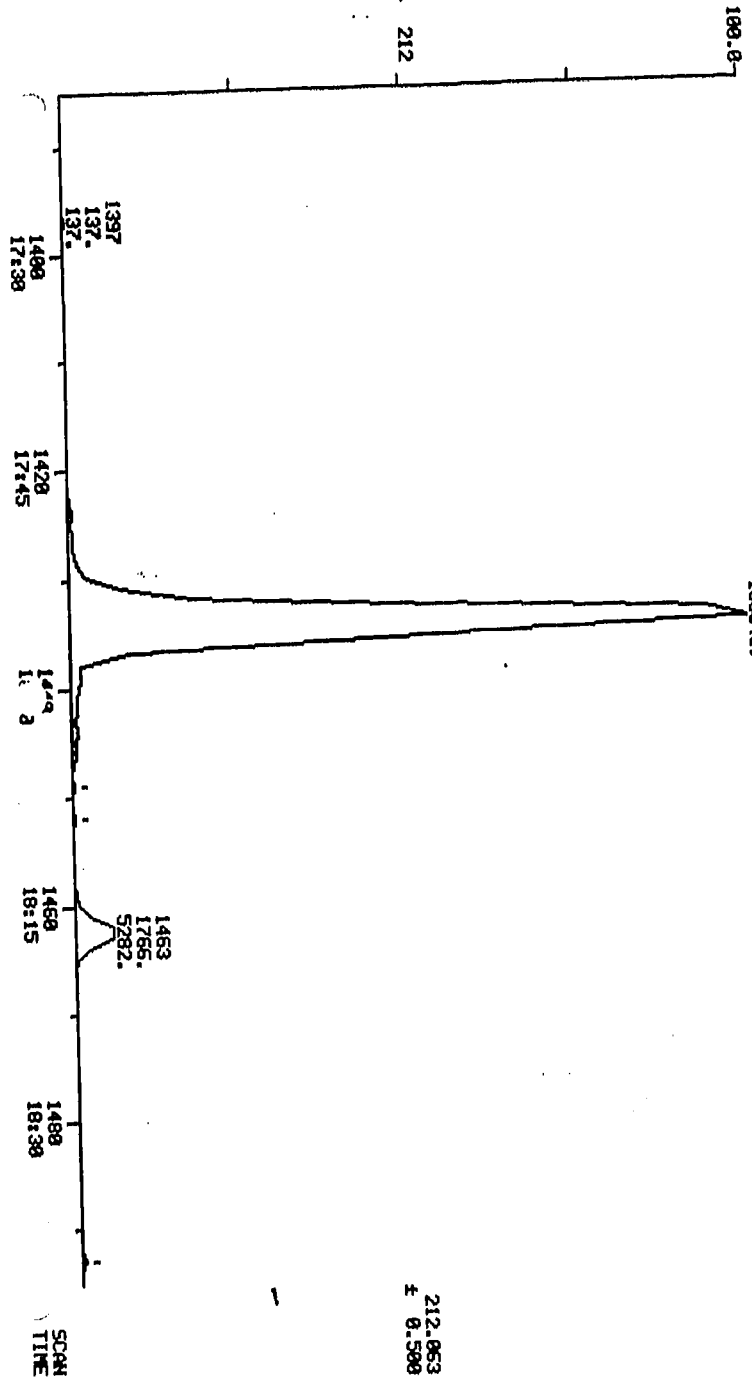
MASS CHROMATOGRAM
02/14/84 2:42:00
SAMPLE: 1 U.L. 50 NG STD #2342(11009) DIA #28
DIB-PYRENE (SURROGATE)

HEAD COMPUCHEM
COMPUCHEM DATE: MS840214C28 SCANS 1385 TO 1495

1435
31615.
106348.

013941
31615.
9

013941



212.063
F 0.500

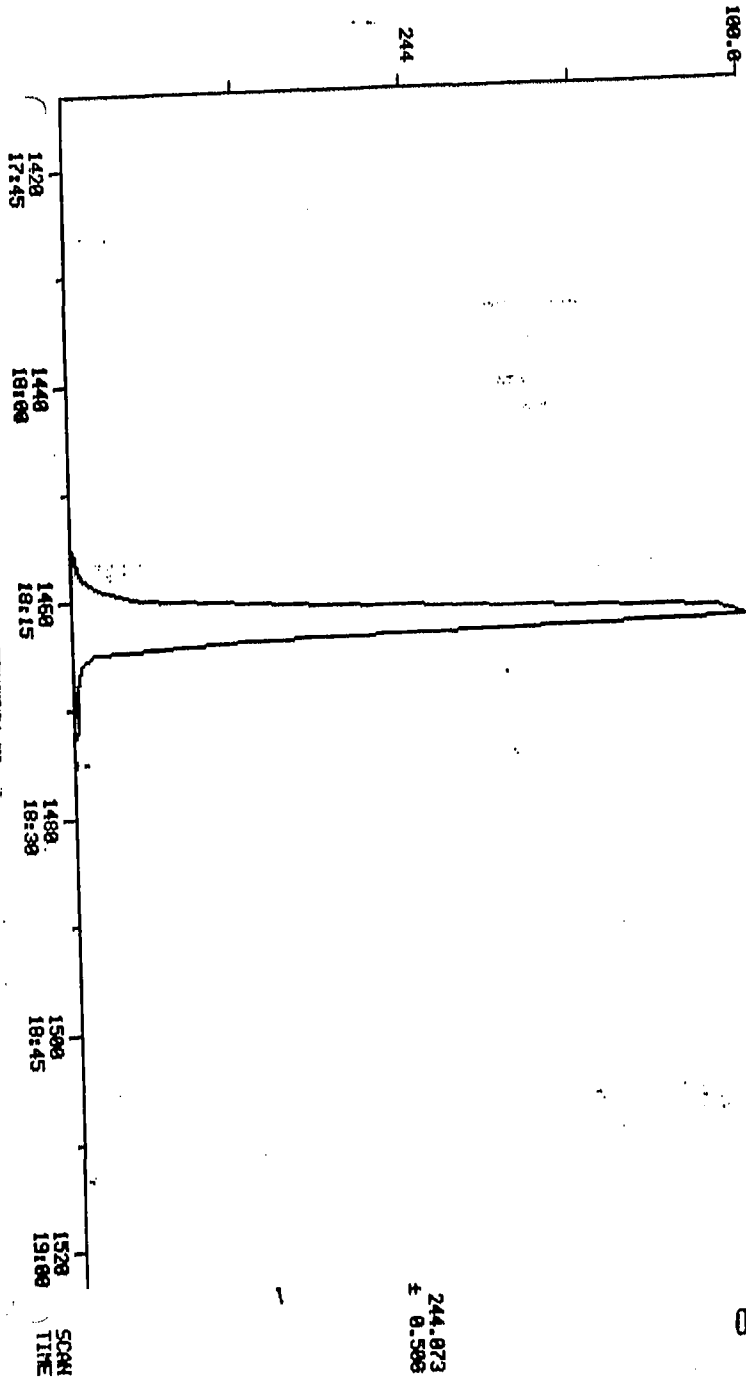
MASS CHROMATOGRAM
02/14/84 21:42:00
SAMPLE: 1 UL 50 NG STD #2342(11889) OMA #28
D14-TERPHENYL (SURROGATE)

HEAD COMPUCHEM
COMPUCHEM DATA: H0940214C28 SCANS 1413 TO 1523

1463
25408.
72526.

013942

005267



244

244.873
0.508

2337

Mead ComputChem
GC/MS Analysis Log

Initial Time of Run 01:11
Time Time Elapsed 07:11
S
D
A

Press Hard, Multiple Copies

Run Log	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	Notes
1	DH840214 C20	✓		1µl 11005	763		206	Low End EM
2	H6840214 C20	✓		1µl 11009	763	-d-	206	#2342 SDK
3	H6840214 C20	✓		1µl 11009	763		206	
4	GH019853 C20	✓		1µl	763		206	
5	GH019856 C20	✓		1µl	763		206	acquisition si
6	GH019861 C20	✓		1µl	768		206	
7	GH019861 C20	✓		1µl	740		206	
8	GH019560A20	✓		1µl 19560				
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

13943

00:00

**Mead ComputChem
GC/MS Analysis Log**

Initial Time of Tune 01:11 Shift(s) (A) 2-14-83 (B) ✓
 Time Tune Elapsed 02:11 Date 2-14-83 (C) ✓
 Analysis Type FSCCT

Press Hard, Multiple Copies

File	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
2	✓		1ul 11005	763		206	Lownd Bar 2500-22480 In. 23.074
0		✓	1ul 11008	763	-d-	206	#2542 SDsq. disc 2000 peak 30.074 #2342 SDsq.
0	✓		1ul 11009	763		206	
2	✓		1ul	763		206	
0	✓		1ul	763		206	
0	✓		1ul	763		206	acquisition stopped.
0	✓		1ul	768		206	
0	✓		1ul 19560	740		206	

01394

FDC 'CHECK STAMPING' TOLLATION

SWD 20 STAMPING FILE NUM HG840214C20 DATE 2-14-84 OPERATOR 263
1/20/84

013945
000970

CHECK ORIGIN	← THREE POINT MULTI-POINT →			MULTIPOINT AVERAGE RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	50 MG RESPONSE FACTOR	50 MG RESPONSE FACTOR	50 MG RESPONSE FACTOR				
14-Batchmarking (1)	1.229	1.152	0.721	1.034	0.897 1.033	13	\$ DIFFERENCE < 15%
11-Stamping (2)	1.191	1.097	0.983	1.090	1.073	2	\$ DIFFERENCE < 15%
Accounting (3)	1.174	1.110	1.157	1.164	1.118	5	\$ DIFFERENCE < 15%
10-Stamping (4)	1.047	1.013	0.956	1.005	1.160	14.5	\$ DIFFERENCE < 15%
Stamping (5)	1.540	1.232	1.249	1.340	1.268	8	\$ DIFFERENCE < 15%
13-Stamping (6)	1.461	1.043	1.272	1.259	1.129	12	\$ DIFFERENCE < 15%
Stamping (7)	0.714	0.683	0.703	0.707	0.729 0.714	5	\$ DIFFERENCE < 50%
12-Stamping (8)	1.563	1.461	1.341	1.455	1.634	16	% DIFFERENCE < 20%
1-Stamping (9)							Acceptable only BY REPORT ONLY
34-Stamping (10)							

POSTED

c

013946

29

005271

EPA CASE# 2333

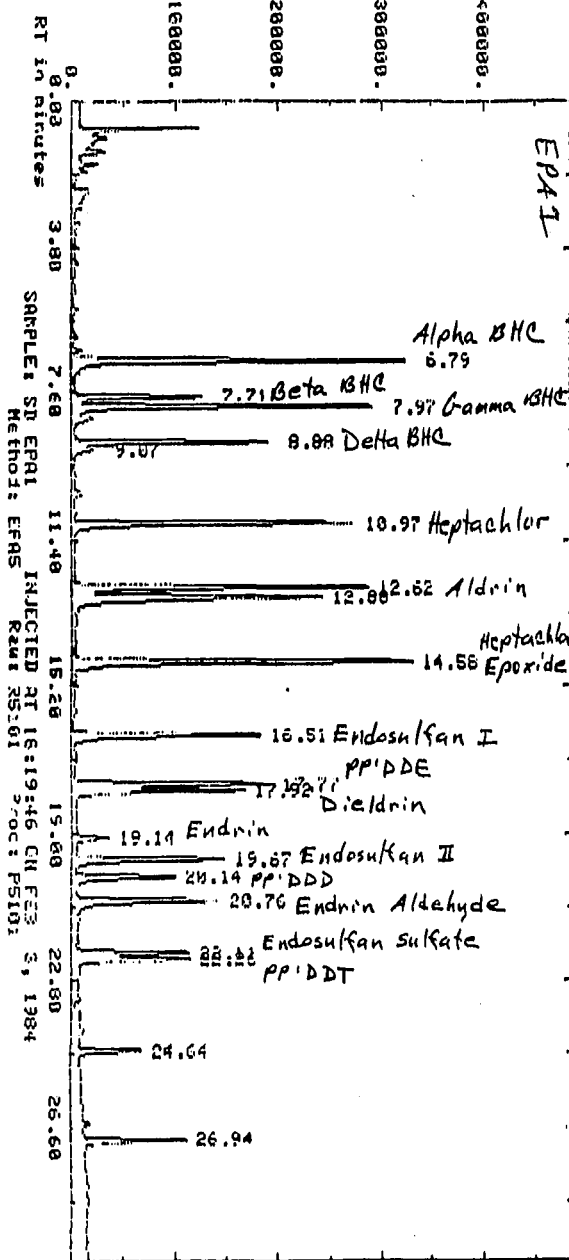
HEAD COMPUTHER CASE SUMMARY REFERENCE GUIDE

REVIEWER 180
date 2-29-84

Fraction	associated tune	associated shift/ std.	CC #	EPA SMO#	Analyst Date/Name	Voa Inst. #pink	Extract. Date	Assoc. BIF#	Comment
Dist	EP01	SBS 3m	R558	R3517					
	8:19:46	8:34							
	EP01	D ¹⁵ 30m	19560	R3519					
	13:26:12	2:44							
	"	"	PE61	R3520					
	"	"	19562	R3521					
	SD1360	2:02:24							
	17:30:28	2:74	19558	R3517					
	"	"	19597	R3518					
	"	"	19560	R3519					
	"	"	19562	R3521					
	EP01	DOS 3m	19561	R3520					
	18:51:01	2:74							
	EP01	DOS 3m	19561	R3520					
	9:36:11	2:18							

013947
180
2-29-84

AMPLITUDE x.25 uV-seconds (enlarged x. .75)



013948

Report: 6461.00 Channel: 5
 Sample: SD EPA1 Injerted at 10:19:46 ON FEB 3, 1974
 ESTD Method: EPA5 Seq: SEQS1 Subsq/Samp: 1/1 Rtl: 1
 SD-Width MV/Min Delay Min:Ac Bunch
 250 3.000 5.00 32767
 Sup:Unk Dvl ID: Lvl Ref: RTW ZRTM ZH1: f Iso
 ND 0.00 0 Ref: RTW 30 ZRTM 5.0 ZH1: f 150
 ND 100.00 ND

Actual run time: 30.017 minutes

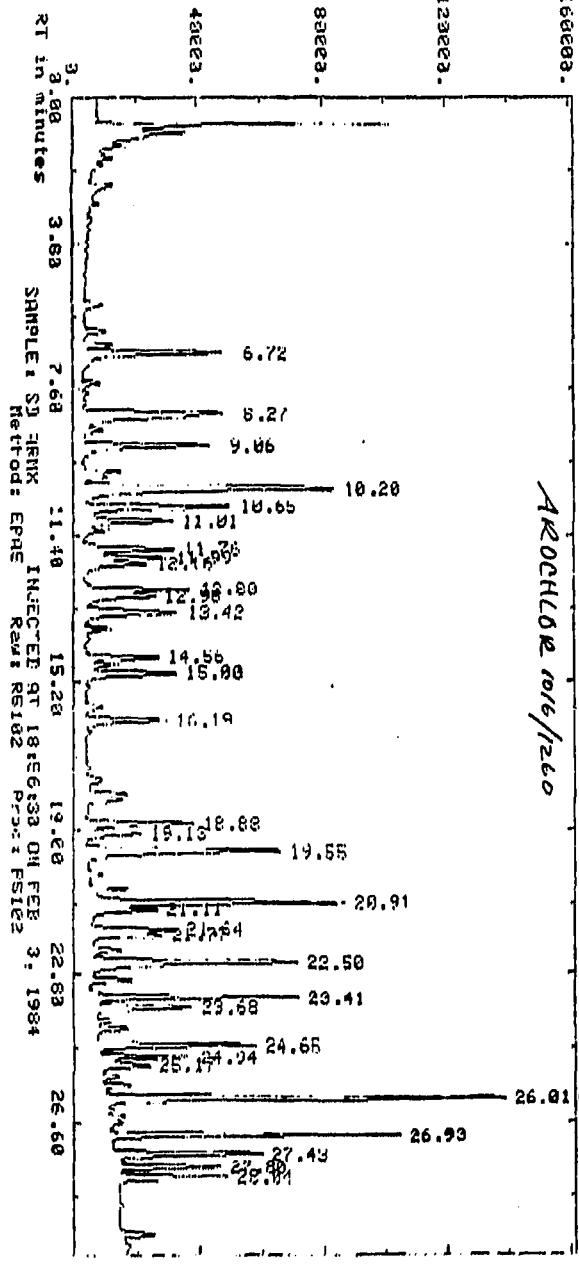
Ended not on baseline
 No reference peak found

RT	ITM	Factor	Area	AREA %	Name
6.77	0.00	.10000E+01	2051604.	HS	9.316
7.71	0.00	.10000E+01	744020.	UV	3.366
7.77	0.00	.10000E+01	1077034.	HS	8.482
8.00	0.00	.10000E+01	977782.	UV	4.410
9.07	0.00	.10000E+01	127564.	UV	.576
10.77	0.00	.10000E+01	1074910.	HS	7.577
12.62	0.00	.10000E+01	1994016.	BS	9.010
12.88	0.00	.10000E+01	1959132.	UV	8.653
14.50	0.00	.10000E+01	2221127.	HS	10.037
16.51	0.00	.10000E+01	1202504.	UV	5.434
17.77	0.00	.10000E+01	1129531.	UV	5.104
17.98	0.00	.10000E+01	1009830.	UV	4.524
19.14	0.00	.10000E+01	107318.	UV	.046
19.67	0.00	.10000E+01	923445.	UV	4.173
20.14	0.00	.10000E+01	610416.	UV	2.758
20.76	0.00	.10000E+01	1011995.	UV	4.573
22.11	0.00	.10000E+01	605277.	UV	3.027
22.86	0.00	.10000E+01	703302.	UV	3.170
24.64	0.00	.10000E+01	347472.	UV	1.579
26.94	0.00	.10000E+01	597370.	UV	2.679
Total Area =			22130312.	Total AREA % =	597377.750
Processed data file: P5101				Raw data file: R5101	

013949

003974

AMPLITUDE x.25 uV-seconds (Enlarged x 1.94)



SAMPLE: SD
 METHOD: EPAE
 INJECT: ED 91
 RAW: RE102
 PROC: FS12
 18:56:33 ON FEB 3, 1984

013950

005275

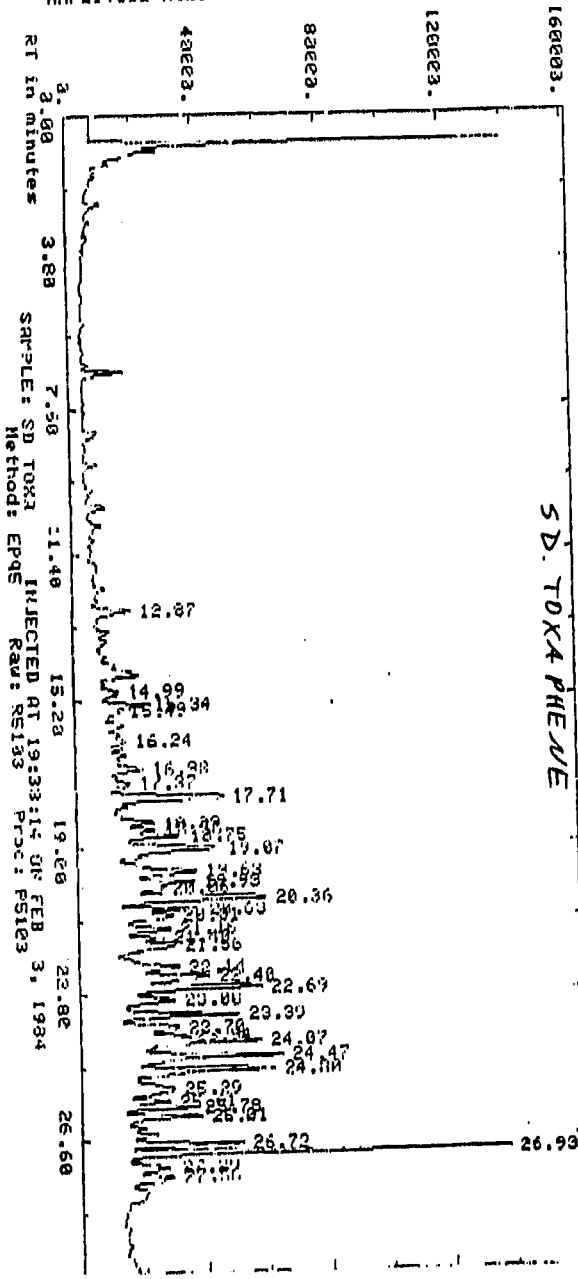
Report: 6462.00 Channel: 5
 Sample: 5D ANMX Injected at 10:56:30 ON FEB 3, 1964
 ESTD Method: EPAL Seq: SER51 Subsq/Samp: 1/2 RTI: 2
 SI-width MV/Min Delay Min. Ar Bunch
 .250 3.000 5.00 32767
 Sup. Lnk Dvl ID Lvl Ref. N1W XRTW XDI T 150
 NO 0.00 0 0 .30 5.0 100.00 NO
 Actual run time: 30.000 minutes

RT	IRM	Factor	Area	AREA %	NAME
6.72	0.00	.10000E+01	336031.00	336030.690	
8.27	0.00	.10000E+01	478956.00	478955.560	
9.06	0.00	.10000E+01	293961.00	293961.310	
10.20	0.00	.10000E+01	819559.00	819567.120	
10.65	0.00	.10000E+01	336507.00	336506.830	
11.01	0.00	.10000E+01	205917.00	205916.910	
11.76	0.00	.10000E+01	205907.00	205906.970	
11.77	0.00	.10000E+01	103434.00	103433.560	
12.16	0.00	.10000E+01	171734.00	171733.670	
12.80	0.00	.10000E+01	250230.00	250227.570	
12.98	0.00	.10000E+01	109542.00	109542.500	
13.42	0.00	.10000E+01	264703.00	264702.070	
14.56	0.00	.10000E+01	141550.00	141550.440	
15.00	0.00	.10000E+01	224443.00	224445.170	
16.19	0.00	.10000E+01	187684.00	187683.530	
18.00	0.00	.10000E+01	238217.00	238217.180	
19.13	0.00	.10000E+01	176139.00	176138.750	
19.53	0.00	.10000E+01	470433.00	470434.560	
20.91	0.00	.10000E+01	577794.00	577794.120	
21.11	0.00	.10000E+01	157430.00	157430.000	
21.64	0.00	.10000E+01	176089.00	176089.660	
21.77	0.00	.10000E+01	161630.00	161630.440	
22.50	0.00	.10000E+01	563807.00	563806.870	
23.41	0.00	.10000E+01	458476.00	458476.190	
23.60	0.00	.10000E+01	215001.00	215001.120	
24.05	0.00	.10000E+01	310057.00	310057.440	
24.94	0.00	.10000E+01	177207.00	177206.530	
25.17	0.00	.10000E+01	127431.00	127430.070	
26.01	0.00	.10000E+01	701927.00	701927.370	
26.93	0.00	.10000E+01	522404.00	522403.620	
27.46	27.43	.10000E+01	304136.00	304136.837	4000
27.80	0.00	.10000E+01	171212.00	171211.910	
28.04	0.00	.10000E+01	211774.00	211773.750	
Total Area =			10002060.	Total AREA % =	211773.750
Processed data file:			P5102	Raw data file:	R5102

013951

000076

AMPLITUDE x.25 uV-seconds (Enlarged x 1.23)



DG-5 3041 013952

005277

Report: 6463.00 Channel: 5

Sample: SD TOXA

Injected at 19:33:14 ON LIN 3, 1984

ESID Method: EPAS

Seq. SEQ51

Subsq/Samp: 1/3

RI: 3

Sl-width MV/Min Delay Min. Ac Bunch
.250 3.000 5.00 32787

Sup. Unk Dv1 ID. Lvl Ref. RTW ZRTW ZD1. T 150
NO 0.00 0 Ref. RTW 5.0 100.00 NO

Actual run time: 30.004 minutes

Lnded not on baseline

RI	ITM	Factor	Area	AKLA %	Name
12.07	0.00	.10000E+01	126576.	HH 126576.	090
14.79	0.00	.10000E+01	113937.	HH 113936.	590
15.34	0.00	.10000E+01	120937.	HH 120936.	030
15.49	0.00	.10000E+01	104730.	HH 104729.	160
16.24	0.00	.10000E+01	100725.	HH 100725.	310
16.98	0.00	.10000E+01	191614.	VV 191615.	720
17.37	0.00	.10000E+01	126166.	VV 126166.	300
17.71	0.00	.10000E+01	430092.	VV 430092.	120
18.39	0.00	.10000E+01	103170.	VV 103170.	660
18.56	0.00	.10000E+01	154590.	VV 154590.	470
18.75	0.00	.10000E+01	217616.	VV 217615.	720
19.07	0.00	.10000E+01	479251.	VV 479250.	560
19.63	0.00	.10000E+01	402717.	VV 402716.	070
19.93	0.00	.10000E+01	285536.	VV 285535.	940
20.06	0.00	.10000E+01	157532.	VV 157532.	440
20.36	0.00	.10000E+01	602732.	VV 602731.	620
20.63	0.00	.10000E+01	231107.	VV 231107.	250
20.81	0.00	.10000E+01	260672.	VV 260671.	780
21.16	0.00	.10000E+01	207796.	VV 207796.	030
21.40	0.00	.10000E+01	140270.	VV 140270.	260
21.56	0.00	.10000E+01	253483.	VV 253483.	410
22.14	0.00	.10000E+01	351011.	VV 351011.	310
22.40	0.00	.10000E+01	360077.	VV 360077.	000
22.69	0.00	.10000E+01	422000.	VV 422000.	560
23.00	0.00	.10000E+01	265213.	VV 265213.	170
23.39	0.00	.10000E+01	355603.	VV 355602.	500
23.70	0.00	.10000E+01	255900.	VV 255900.	940
23.94	0.00	.10000E+01	141744.	VV 141743.	940
24.07	0.00	.10000E+01	502737.	VV 502737.	380
24.47	0.00	.10000E+01	525404.	VV 525404.	500
24.80	0.00	.10000E+01	437607.	VV 437607.	120
25.29	0.00	.10000E+01	324005.	VV 324004.	940
25.61	0.00	.10000E+01	108523.	VV 108522.	010
25.70	0.00	.10000E+01	160000.	VV 160000.	720
26.01	0.00	.10000E+01	184003.	VV 184002.	810
26.72	0.00	.10000E+01	254400.	VV 254400.	410
26.93	0.00	.10000E+01	785332.	VV 785332.	500
27.29-27.29	0.00	.10000E+01	104474.	VV 104473.	143
27.56	0.00	.10000E+01	104474.	VV 104473.	620

Total Area = 10560242.

Total AKLA % = 104473.620

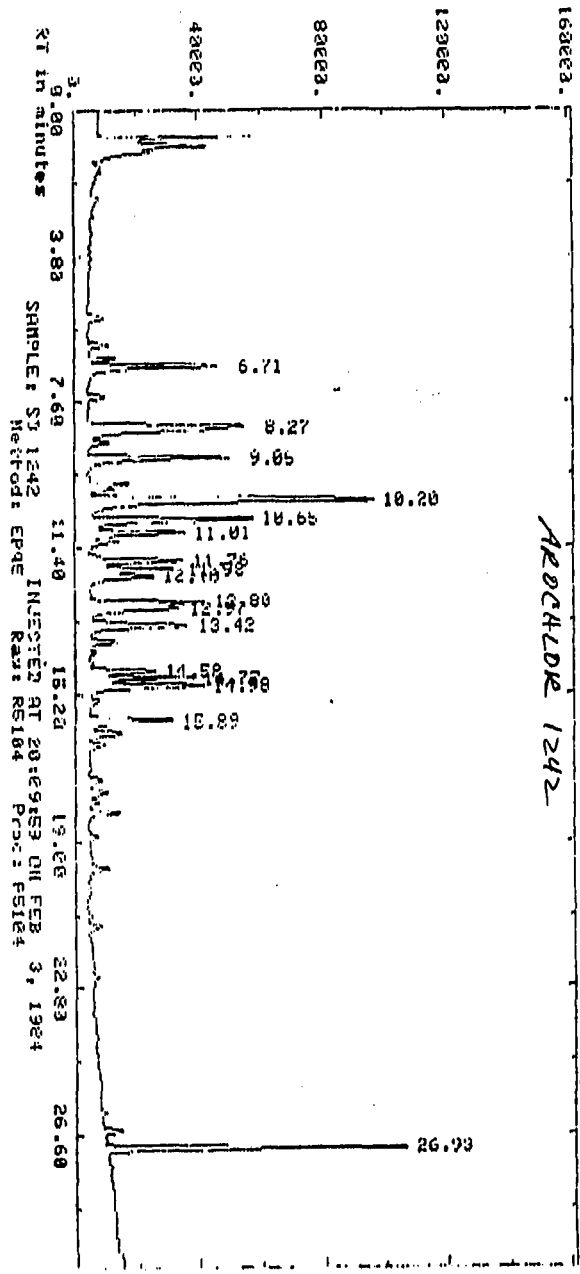
Processed data file: P5103

Raw data file: R5103

013953

005978

AMPLITUDE x.25 UV-seconds (Enlarged x 7.72)



SAMPLE: SJ 1342
Method: EPQE
INJECTED AT 20:09:53 ON FEB 3, 1984
Raw: RS104 Proc: FS104

013954

29 005279

Report: 6464.00 Channel: 5
 Sample: SD 1242 Injected at 20:09:59 ON 11/ 3, 1984
 EGD Method: EPA5 Seq: SEQ51 Subseq/Temp: 1/ 4 Rtl: 4
 SI-width MV/Min Delay Min. Ac Bunch
 250 3.000 5.00 32/57
 Supplnk Dv1 ID-Lvl Ref-R1W %R1W %Dil-F 150
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.013 minutes

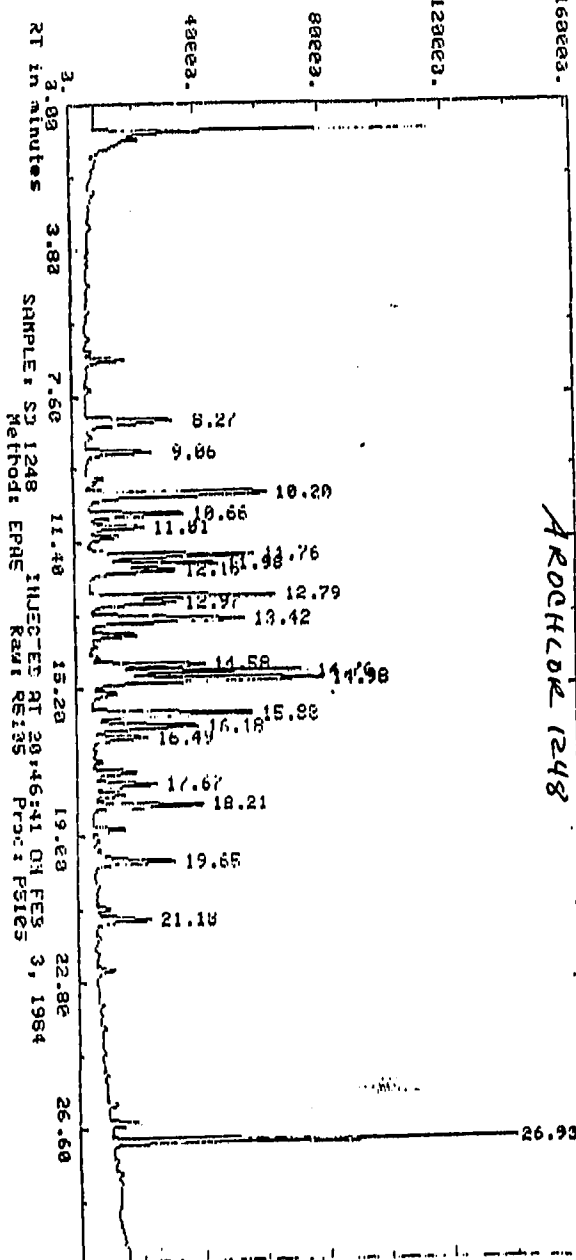
Ended not on baseline
 No reference peak found

RT	ITM	Factor	Area	AREA %	Name
6.71	0.00	.10000E+01	312763.00	5.577	
8.77	0.00	.10000E+01	565121.00	10.077	
9.05	0.00	.10000E+01	329439.00	5.074	
10.90	0.00	.10000E+01	910554.00	16.370	
10.65	0.00	.10000E+01	380701.00	6.790	
11.01	0.00	.10000E+01	230539.00	4.111	
11.76	0.00	.10000E+01	216713.00	3.868	
11.90	0.00	.10000E+01	199070.00	3.588	
12.16	0.00	.10000E+01	104933.00	1.897	
12.80	0.00	.10000E+01	343618.00	6.127	
12.97	0.00	.10000E+01	227775.00	4.061	
13.42	0.00	.10000E+01	204177.00	3.662	
14.50	0.00	.10000E+01	137120.00	2.445	
14.77	0.00	.10000E+01	737015.00	13.240	
14.90	0.00	.10000E+01	201410.00	3.618	
15.89	0.00	.10000E+01	202179.00	3.655	
26.93	0.00	.10000E+01	557275.00	9.957	
Total Area = 560299.			Total AREA % = 56725.000		
Processed data file: P5104			Raw data file: R5104		

013955

005080

AMPLITUDE x.25 uV-seconds (Enlarged x .92)



013956

005281

Report: 6465.00 Channel: 5
 Sample: SD 1248 Injected at 20:46:41 ON LFD 3, 1974
 ESTD method: EPAS Seq: SE951 Subsq/Inj: 1/5 Rtl: S
 SI-width MV/Min Delay Min. Ar Hunch
 2.50 3.000 5.00 32767
 Supp. Unk Dvt ID: Ivl Ref: RTW ZRTW ZDil: f 150
 NU 0.00 0 Z 0.30 5.0 100.00 NU

Actual run time: 30.004 minutes
 Ended not on baseline
 No reference peak found

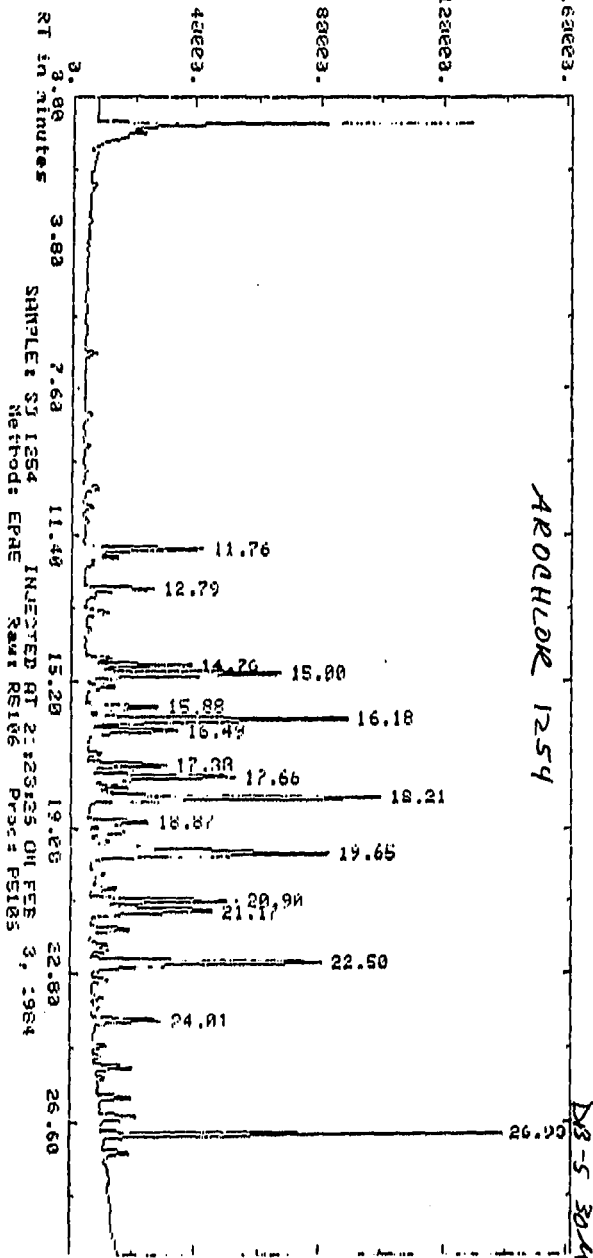
RT	ITM	Factor	Area	AKIA %	Name
8.27	0.00	.10000E+01	262078.	8.819	BV
9.06	0.00	.10000E+01	143054.	4.804	BV
10.20	0.00	.10000E+01	584105.	19.512	VV
10.66	0.00	.10000E+01	215913.	7.146	VV
11.01	0.00	.10000E+01	134327.	4.497	VV
11.76	0.00	.10000E+01	370018.	12.321	VV
11.93	0.00	.10000E+01	202807.	6.794	VV
12.15	0.00	.10000E+01	237294.	7.917	VV
12.72	0.00	.10000E+01	429192.	14.322	BV
12.77	0.00	.10000E+01	212261.	7.074	BV
13.42	0.00	.10000E+01	430064.	14.366	VV
14.58	0.00	.10000E+01	231307.	7.717	VV
14.76	0.00	.10000E+01	401550.	13.417	VV
14.98	0.00	.10000E+01	566700.	18.857	VV
15.88	0.00	.10000E+01	301251.	10.055	BV
16.18	0.00	.10000E+01	277145.	9.238	VV
16.47	0.00	.10000E+01	119229.	3.975	VV
17.67	0.00	.10000E+01	113038.	3.741	VV
18.21	0.00	.10000E+01	250976.	8.357	VV
19.65	0.00	.10000E+01	213406.	7.109	VV
21.10	0.00	.10000E+01	134316.	4.498	VV
26.93	0.00	.10000E+01	760417.	25.081	VV

Total Area = 6063173. Total AREA % = 760487.120
 Processed data file: P5105 Raw data file: R5105

013957

005282

AMPLITUDE x.25 uV-seconds (Enlarged x .94)



013958

005288

Report: 6466.00 Channel: 5

Sample: SD 1254

Injected at 21:23:26 ON 11.0 3, 1984

ESID Method: EPAS

Seq: SEW51

Subsq/Samp: 1/ 5

Btl. 6

SI-Width 250 MV/Min 3.000 Delay 5.00 Min: Ac 32767 Nunch

Sup: Unk bvl 0.00 ID-Lvl 0 Ref: N1W .30 %N1W 5.0 %Dil: 100.00 15.0 NO

Actual run time: 30.017 minutes

Ended not on baseline
No reference peak found

RT	HM	Factor	Area	AKLA %	Name
11.76	0.00	.10000E+01	267364.	4.120	BV
12.79	0.00	.10000E+01	149946.	2.311	BV
14.76	0.00	.10000E+01	235232.	3.625	UV
15.00	0.00	.10000E+01	468487.	7.219	UV
15.00	0.00	.10000E+01	163661.	2.522	BV
16.10	0.00	.10000E+01	646363.	9.970	UV
16.47	0.00	.10000E+01	210740.	3.250	UV
17.38	0.00	.10000E+01	176932.	2.786	UV
17.66	0.00	.10000E+01	358404.	5.515	UV
18.21	0.00	.10000E+01	699513.	10.779	VB
18.07	0.00	.10000E+01	130247.	2.007	BV
19.65	0.00	.10000E+01	786294.	12.116	UV
20.70	0.00	.10000E+01	327624.	5.048	UV
21.17	0.00	.10000E+01	396850.	6.106	UV
22.50	0.00	.10000E+01	614746.	9.476	UV
24.01	0.00	.10000E+01	142437.	2.210	NB
26.73	0.00	.10000E+01	733073.	11.309	VB

Total Area = 6409550.

Total AKLA % = 733093.250

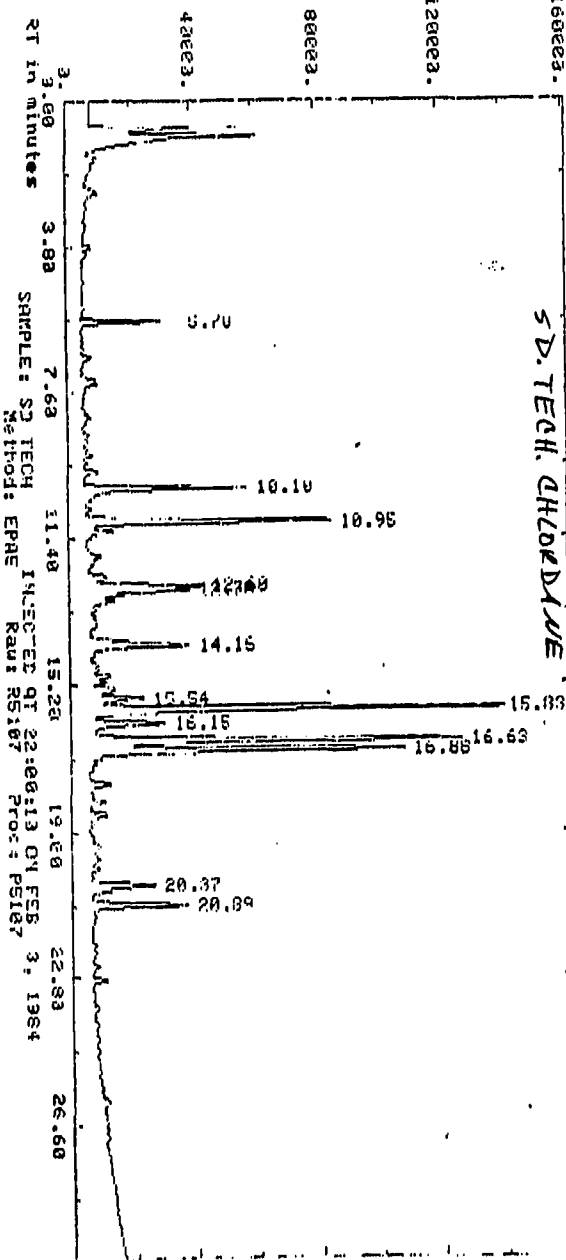
Processed data file: P5106

Raw data file: R5106

013959

005284

AMPLITUDE x.25 uV-seconds (Enlarged x .96)



RT in minutes

SAMPLE: SD TECH
 Method: EPAE
 INJECTED QI 22:00:13 QV FEB 3, 1984
 Raw: RS187
 Proc: PS187

28-5-30M

013960

005085

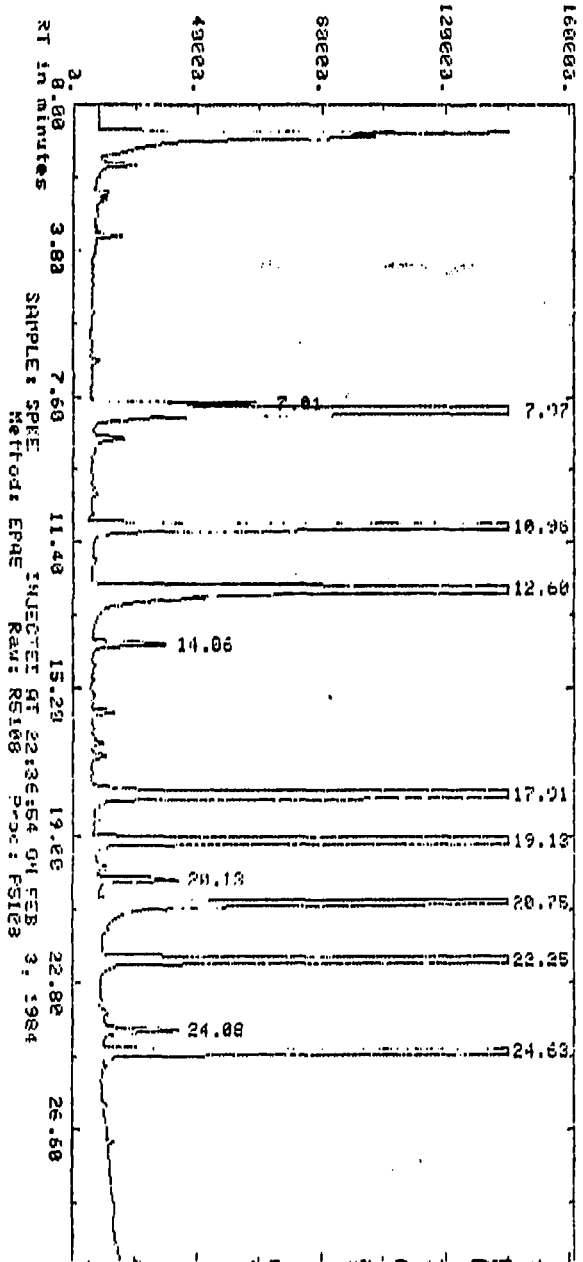
Report: 6467.00 Channel: 5
 Sample: 5D TLGH Injected at 22:00:10 ON TUE 3, 1984
 EBSD Method: EPAS Req: SEM5 Subseq/Chan: 1/7 Rtl: 7
 SS-Width MV/min Delay min Ac Bunch
 .250 3.000 5.00 32/57
 Sup: Unk Dv1 ID: Ivl Ref: RTW XRTW XDist: t Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.000 minutes
 Ended not on baseline
 No reference peak found

RT	ITM	Factor	Area	AREA %	Name
5.70	0.00	.10000E+01	163280. BV	3.270	
10.10	0.00	.10000E+01	260474. UV	7.219	
10.75	0.00	.10000E+01	521400. UV	10.443	
12.60	0.00	.10000E+01	210460. UV	4.214	
12.70	0.00	.10000E+01	205100. UV	4.109	
14.15	0.00	.10000E+01	272070. UV	5.464	
15.54	0.00	.10000E+01	140452. UV	2.973	
15.63	0.00	.10000E+01	940477. UV	10.836	
16.15	0.00	.10000E+01	193713. UV	3.879	
16.63	0.00	.10000E+01	061247. UV	1.247	
16.80	0.00	.10000E+01	764472. UV	15.309	
20.37	0.00	.10000E+01	147143. UV	2.942	
20.89	0.00	.10000E+01	204415. BV	4.093	
Total Area = 4993697.			Total AREA % = 204415.070		
Processed data file: P5107			Raw data file: R5107		

013961
 005286

AMPLITUDE x.25 uV-seconds (Enlarged x 24.68)



SAMPLE: SPE
Method: EPA8
INJECTED: 22:36:54 04 FEB
RAW: RS108
Proc: PS123
3: 1984

013962

005287

Report: 6468.00 Channel: 5
 Sample: SPKE Injected at 22:37:54 (M T W T F S S) 3, 1904
 ESTD Method: EPA5 Seq: 01951 Subseq/Samp: 17.0 Btl. B
 SI Width MV/Min Delay Min. AC Runch
 .250 3.000 5.00 32/57
 Sup. Unk Dvt ID Lvl Ref. RTW %RTW ZD1. T 150
 NO 0.00 0 1.30 5.0 100.00 NO

Actual run time: 30.004 minutes
 Ended not on baseline
 No reference peak found

RT	LTM	Factor	Area	AREA %	Name
7.01	0.00	.10000E+01	264612.	.311	BH
7.97	0.00	.10000E+01	17315076.	20.376	HS
10.95	0.00	.10000E+01	15609400.	18.463	HS
12.60	0.00	.10000E+01	16755756.	19.718	HS
14.05	0.00	.10000E+01	173254.	.204	TI
17.91	0.00	.10000E+01	13891000.	16.347	HS
19.33	0.00	.10000E+01	6631750.	7.804	HS
20.15	0.00	.10000E+01	180224.	.221	VV
20.75	0.00	.10000E+01	2007760.	2.363	VV
22.25	0.00	.10000E+01	4925262.	5.863	HS
24.00	0.00	.10000E+01	227707.	.268	HI
24.63	0.00	.10000E+01	2900365.	3.422	HS
Total Area =			84770464.	Total AREA % = 29001165.500	
Processed data file: P5100				Raw data file: R5100	

013963

005288

Report: 6469.00 Channel: 5

Sample: MD

Injected at 23:13:39 ON FEB 3, 1984

ESRD Method: EPAS

Seq: SEQ51

Subseq/Chan: 1/2

RT: 9

SI-width MV/Min Delay Min. Ar. Hunch
.250 3.000 5.00 32767

Sup. Ink Dv1 1D-1v1 Ref. RTW %RTW %Dil. F Iso
ND 0.00 0 0.00 5.0 100.00 ND

Actual run time: 30.013 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area	AREA %	Name
12.60	0.00	.10000E+01	1711003.	51.422	BS
17.12	0.00	.10000E+01	174603.	4.690	BB
20.74	0.00	.10000E+01	276314.	7.432	BB
22.25	0.00	.10000E+01	642370.	17.389	BB
24.63	0.00	.10000E+01	257737.	6.932	BB
25.35	0.00	.10000E+01	453006.	12.706	BB

Total Area = 3712866. Total AREA % = 45.8806.250
Processed data file: P5109 Raw data file: R5109

013964

005249

2333

SEQUENCE RUN LOG - GC/MS

FEB 4, 1984

4:34 PM

PAGE 1

SEQUENCE NAME - 00951

CALIB. STD LUI EPA1

L.D. RE

CHANNEL # 5

DATE STARTED

INSTRUMENT # 03

DATE FINISHED

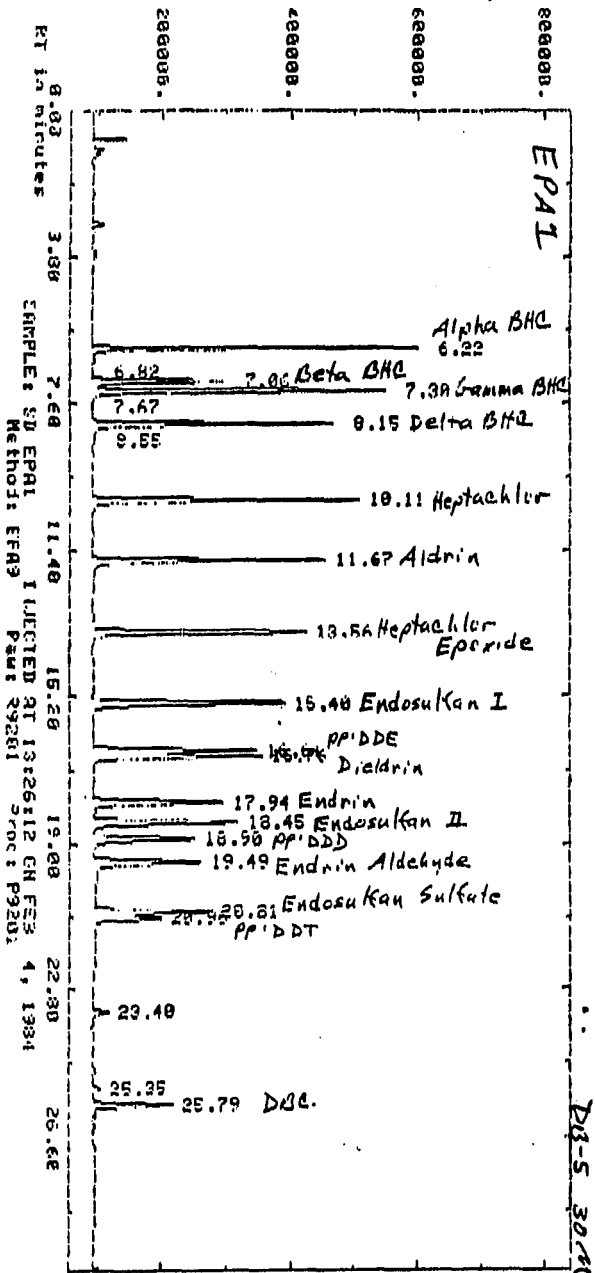
TYPL(S) OF ANALYSIS PEST

SAMPLE NAME	S#	CASE NUMBER	EPA NUMBER	INJECTION TIME
SD EPA1	01			18:17:46 ON FEB 3, 1984
SD ARX	02			18:56:50 ON FEB 3, 1984
SD TOXA	03			19:35:14 ON FEB 3, 1984
SD 1242	04			20:07:59 ON FEB 3, 1984
SD 1240	05			20:46:41 ON FEB 3, 1984
SD 1254	06			21:23:26 ON FEB 3, 1984
SD 103H	07			22:00:10 ON FEB 3, 1984
SPKE	08			22:36:54 ON FEB 3, 1984
MD	09			23:13:37 ON FEB 3, 1984
✓ CP 17525	10	C#2236	00	23:50:23 ON FEB 3, 1984
✓ CP 17526	11	C#2236	00	0:27:00 ON FEB 4, 1984
CP 17528	12	C#2236	34681	1:03:52 ON FEB 4, 1984
PP 17522 <i>Resistant</i>	13	C#2347	C4600	1:40:46 ON FEB 4, 1984
PP 17554 <i>Confim</i>	14	C#2347	C4610	2:17:27 ON FEB 4, 1984
✓ PP 17345	15	C#2400	F2823	2:54:14 ON FEB 4, 1984
CP 17415 <i>HS Confim</i>	16	C#2330	R1203	3:30:50 ON FEB 4, 1984
✓ CP 17718	17	2333	R369D	4:07:42 ON FEB 4, 1984
SD EPA4	18			4:44:27 ON FEB 4, 1984
MD	19			5:21:15 ON FEB 4, 1984
✓ CP 17704	20	C#2326	D3563	5:58:00 ON FEB 4, 1984
✓ CP 17706	21	C#2326	D3565	6:34:44 ON FEB 4, 1984
✓ CP 17071	22	2333	Blank	7:11:28 ON FEB 4, 1984
CP 17577 <i>Confim</i>	23		Commercial	7:48:13 ON FEB 4, 1984
PP 17558 <i>Confim</i>	24	C#2333	R3517	8:24:57 ON FEB 4, 1984
CP 17553 <i>Confim</i>	25	C#2347	C4607	9:01:51 ON FEB 4, 1984
CP 17416 <i>Confim</i>	26	C#2330	R1204	9:38:38 ON FEB 4, 1984
CP 17512 <i>Resistant</i>	27	C#2377	F2757	10:32:42 ON FEB 4, 1984
MD	28			11:07:26 ON FEB 4, 1984
SD 1232	29			11:46:17 ON FEB 4, 1984
CP 17538 <i>Resistant</i>	30	C#2376	F2747	12:23:16 ON FEB 4, 1984
PP 17646 <i>Resistant</i>	31	C#2377	F2774	13:00:00 ON FEB 4, 1984
PP 17644 <i>Resistant</i>	32	C#2377	F2772	13:36:47 ON FEB 4, 1984
PP 17520 <i>Resistant</i>	33	C#2377	F2761	14:13:33 ON FEB 4, 1984
PP 17537 <i>Confim</i>	34	C#2376	F2746	14:50:17 ON FEB 4, 1984

013965

005290

AMPLITUDE x.25 uV-seconds (Enlarged x. .75)



RT in minutes
 0.00
 3.00
 7.00
 11.00
 15.00
 19.00
 22.00
 26.00

AMPLER SU EPAL
 METHOD: EPA9
 INJECTED AT 19:26:12 ON FEB 4, 1984
 PWT 19281
 PROC 19201

EPAL

D-5 30M

01396705292

Report: 7244.00 Channel: 9

Sample: SD EPA1

Injected at 13:26:12 ON FEB 4, 1984

ESTD Method: EPA9

Seq: SEQ92

Subsq/Samp: 1/1

Rtl: 1

SI-width MU/Min Delay Min-Ar Bunch
.250 3.000 3.00 32767

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDi-f Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.008 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
6.22	0.00	.10000E+01	2128700.	852128700.500	
6.82	0.00	.10000E+01	2422.	HS 2422.250	
7.04	0.00	.10000E+01	1116234.	8H1116234.500	
7.30	0.00	.10000E+01	2139912.	HS2139912.500	
7.67	0.00	.10000E+01	2807.	HS 2807.750	
8.15	0.00	.10000E+01	1983220.	RS1983220.000	
8.55	0.00	.10000E+01	11560.	HS 11559.750	
10.11	0.00	.10000E+01	2260444.	BS2260444.500	
11.67	0.00	.10000E+01	2098790.	BS2098790.000	
13.56	0.00	.10000E+01	0.	RS 0.000	
13.56	0.00	.10000E+01	5507046.	BS5507046.000	
15.40	0.00	.10000E+01	1989338.	VV1989338.500	
16.61	0.00	.10000E+01	1639249.	BV1639249.700	
16.76	0.00	.10000E+01	1803750.	VV1803750.000	
17.94	0.00	.10000E+01	1381454.	BV1381454.500	
18.45	0.00	.10000E+01	1544017.	VV1544017.500	
18.90	0.00	.10000E+01	1072207.	VV1072207.500	
19.49	0.00	.10000E+01	1413327.	VV1413327.000	
20.81	0.00	.10000E+01	1250456.	VV1250456.500	
20.96	0.00	.10000E+01	703872.	VB 703872.500	
25.35	25.35	.10000E+01	174192.	RS 174192.500	
25.79	0.00	.10000E+01	53146.	RV 53146.050	*DRG
			705722.	VB 705722.000	

Total Area = 30965088.

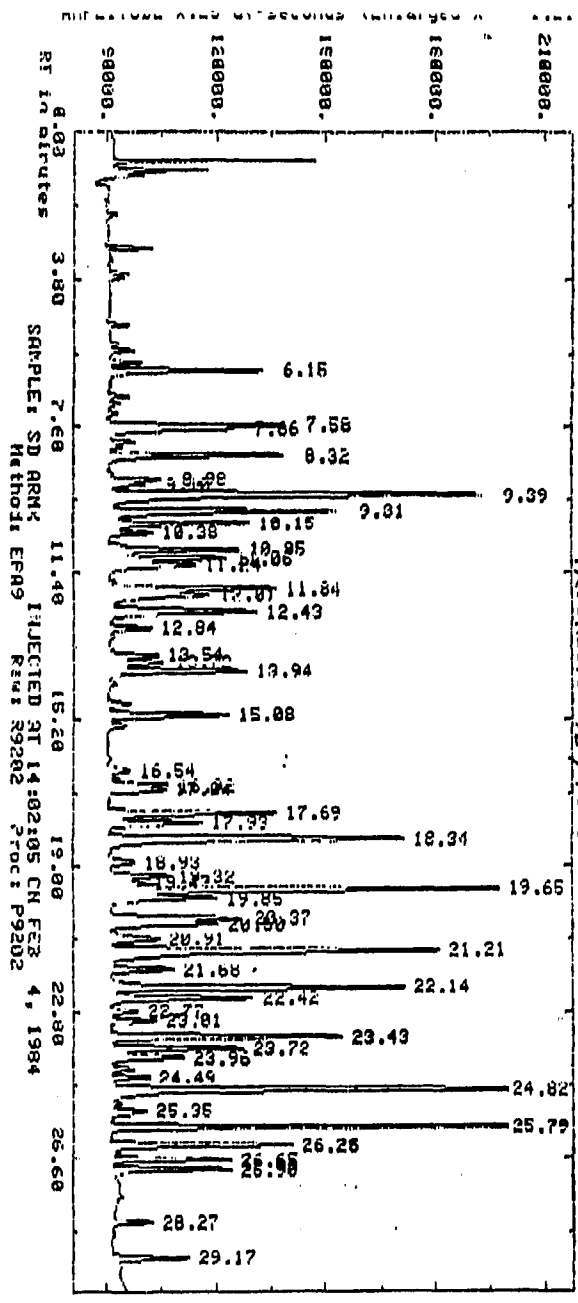
Total AREA % = 705722.000

Processed data file: P9201

Raw data file: R9201

013968

005298



ACQUICOR 10/6/1260

DA-5 3041

013969
005794

Report: 7245.00 Channel: 9

Sample: SD ARMX

Injected at 14:02:05 ON FEB 4, 1984

ESTD Method: EPA9

Seq: SEQ92

Subseq/Samp: 1/2

Bit: 2

SI-width MU/Min Delay Min-Ar Bunch
250 3.00 3.00 32767

Sup-Link Dvt ID-Lvl Ref-RTW XRTW XDi1-f Tso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
6.15	0.00	.10000E+01	230417.	VB	230417.500
7.58	0.00	.10000E+01	250827.	VV	250827.500
7.66	0.00	.10000E+01	187919.	VV	187918.750
8.32	0.00	.10000E+01	287099.	VV	287099.000
8.98	0.00	.10000E+01	81584.	VV	81583.250
9.10	0.00	.10000E+01	60696.	VV	60696.000
9.39	0.00	.10000E+01	971071.	VV	971071.000
9.81	0.00	.10000E+01	418272.	VV	418272.000
10.15	0.00	.10000E+01	299505.	VV	299505.500
10.38	0.00	.10000E+01	79643.	VV	79643.250
10.85	0.00	.10000E+01	253863.	VV	253862.750
11.06	0.00	.10000E+01	205487.	VV	205486.620
11.24	0.00	.10000E+01	202476.	VV	202476.000
11.84	0.00	.10000E+01	334744.	VV	334744.500
12.01	0.00	.10000E+01	235933.	VV	235933.500
12.43	0.00	.10000E+01	358550.	VV	358550.500
12.84	0.00	.10000E+01	78987.	VV	78986.750
13.54	0.00	.10000E+01	93756.	VV	93756.250
13.72	0.00	.10000E+01	119178.	VV	119177.750
13.94	0.00	.10000E+01	289565.	VV	289564.750
15.08	0.00	.10000E+01	248406.	VV	248406.250
16.52	0.00	.10000E+01	52925.	VV	52925.000
16.92	0.00	.10000E+01	105715.	VV	105714.870
17.04	0.00	.10000E+01	117637.	VB	117637.000
17.69	0.00	.10000E+01	328424.	BV	328424.250
17.93	0.00	.10000E+01	194915.	VV	194914.750
18.34	0.00	.10000E+01	669410.	VV	669410.500
18.93	0.00	.10000E+01	63664.	VV	63664.250
19.32	0.00	.10000E+01	120355.	VV	120354.750
19.47	0.00	.10000E+01	54440.	VV	54440.000
19.65	0.00	.10000E+01	808908.	VV	808908.250
19.85	0.00	.10000E+01	225887.	VV	225887.000
20.37	0.00	.10000E+01	257678.	VV	257677.750
20.50	0.00	.10000E+01	208976.	VV	208976.500
20.91	0.00	.10000E+01	132246.	VV	132246.250
21.68	0.00	.10000E+01	779727.	VV	779727.000
21.89	0.00	.10000E+01	125411.	VV	125411.500
22.14	0.00	.10000E+01	581369.	VV	581369.500
22.42	0.00	.10000E+01	269785.	VV	269785.000
22.77	0.00	.10000E+01	58859.	VV	58859.250
23.01	0.00	.10000E+01	80109.	VB	80108.750
23.43	0.00	.10000E+01	408695.	BV	408695.250
23.72	0.00	.10000E+01	227835.	VV	227835.500
23.96	0.00	.10000E+01	174108.	VV	174108.000
24.49	0.00	.10000E+01	64746.	VV	64746.500
24.82	0.00	.10000E+01	878029.	VV	878029.500
25.35	-25.35	.11096E-05	59697.	VV	866 *DBC
25.79	0.00	.10000E+01	772899.	VB	772899.500
26.28	0.00	.10000E+01	311452.	BV	311452.250
26.65	0.00	.10000E+01	177648.	VV	177648.250
26.90	0.00	.10000E+01	191299.	VV	191299.500
28.27	0.00	.10000E+01	64096.	BV	64096.500
29.17	0.00	.10000E+01	117105.	BV	117105.500

Total Area = 13944042.

Total AREA % = 117105.500

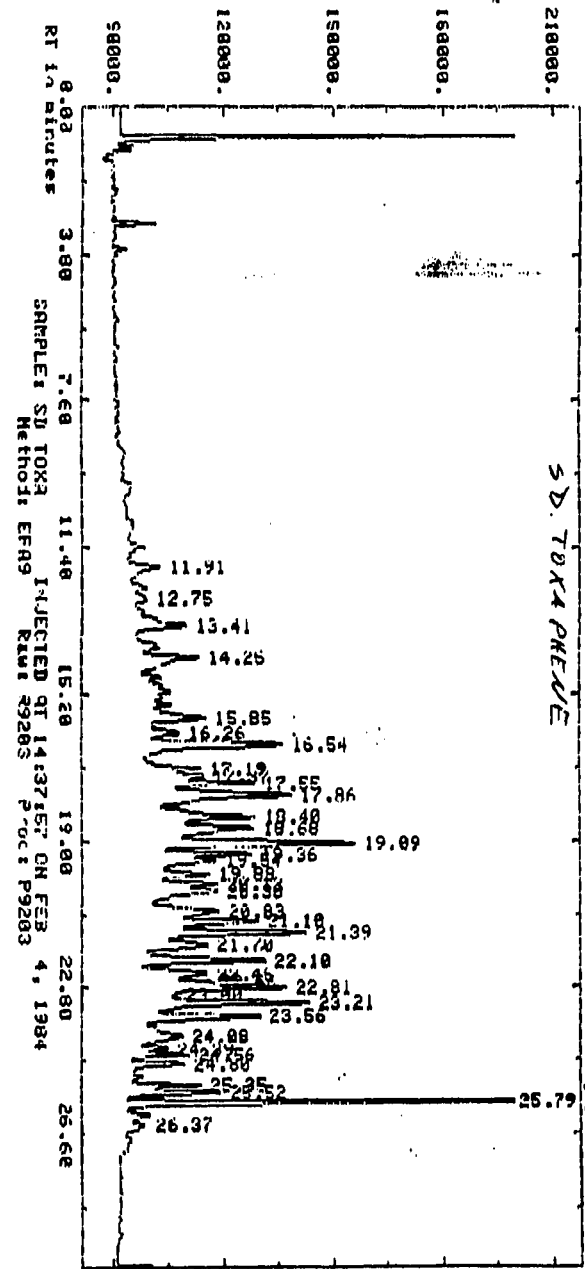
Processed data file: P9202

Raw data file: R9202

013970

005295

HEIGHTS IN SECONDS (ENLARGED X 1.19)



013971

005296

Report: 7246.00 Channel: 9

Sample: SD TOXA

Injected at 14:37:57 ON FFR 4, 1984

ESTD Method: FPA9

Seq: 9FA92

Subsq/Samp: 1/3

Rt1: 3

S1-width
.250

MU/Min
3.000

Delay
3.00

Min-Ac
32767

Bunch

Sup-link
NO

DvT
0.00

DD-Lvl
0

Ref-RTW
.30

XRTW
5.0

XDil-f
100.00

ISO
NO

Actual run time: 30.013 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
11.91	0.00	.10000E+01	97561.00	97561.000	
12.75	0.00	.10000E+01	50332.00	50332.000	
13.41	0.00	.10000E+01	144890.00	144890.000	
14.25	0.00	.10000E+01	198513.00	198513.000	
15.85	0.00	.10000E+01	108306.00	108306.000	
16.26	0.00	.10000E+01	72446.00	72446.500	
16.54	0.00	.10000E+01	403652.00	403652.500	
17.19	0.00	.10000E+01	158407.00	158407.500	
17.37	0.00	.10000E+01	145809.00	145809.750	
17.55	0.00	.10000E+01	263610.00	263610.250	
17.86	0.00	.10000E+01	555219.00	555219.500	
18.40	0.00	.10000E+01	401562.00	401562.000	
18.68	0.00	.10000E+01	447236.00	447236.000	
19.09	0.00	.10000E+01	663922.00	663922.500	
19.36	0.00	.10000E+01	235800.00	235800.250	
19.54	0.00	.10000E+01	232796.00	232796.000	
19.88	0.00	.10000E+01	189261.00	189261.500	
20.12	0.00	.10000E+01	172822.00	172822.750	
20.30	0.00	.10000E+01	303519.00	303519.500	
20.83	0.00	.10000E+01	325451.00	325451.000	
21.10	0.00	.10000E+01	368169.00	368169.500	
21.39	0.00	.10000E+01	436883.00	436882.750	
21.70	0.00	.10000E+01	257869.00	257868.750	
22.10	0.00	.10000E+01	327978.00	327978.500	
22.45	0.00	.10000E+01	241852.00	241852.000	
22.66	0.00	.10000E+01	133170.00	133170.000	
22.81	0.00	.10000E+01	423470.00	423469.750	
23.00	0.00	.10000E+01	63862.00	63862.250	
23.21	0.00	.10000E+01	497418.00	497418.000	
23.53	0.00	.10000E+01	318052.00	318052.500	
23.56	0.00	.10000E+01	240674.00	240674.500	
24.08	0.00	.10000E+01	72906.00	72906.000	
24.39	0.00	.10000E+01	111146.00	111146.000	
24.56	0.00	.10000E+01	103519.00	103519.500	
24.80	0.00	.10000E+01	125472.00	125472.000	
25.35	0.00	.10000E+01	161398.00	161398.179	*DRG
25.52	-25.52	.11096E-05	761204.00	761204.500	
25.79	0.00	.10000E+01	57816.00	57816.750	
26.37	0.00	.10000E+01			

Total Area = 9869982.

Total AREA % = 57815.750

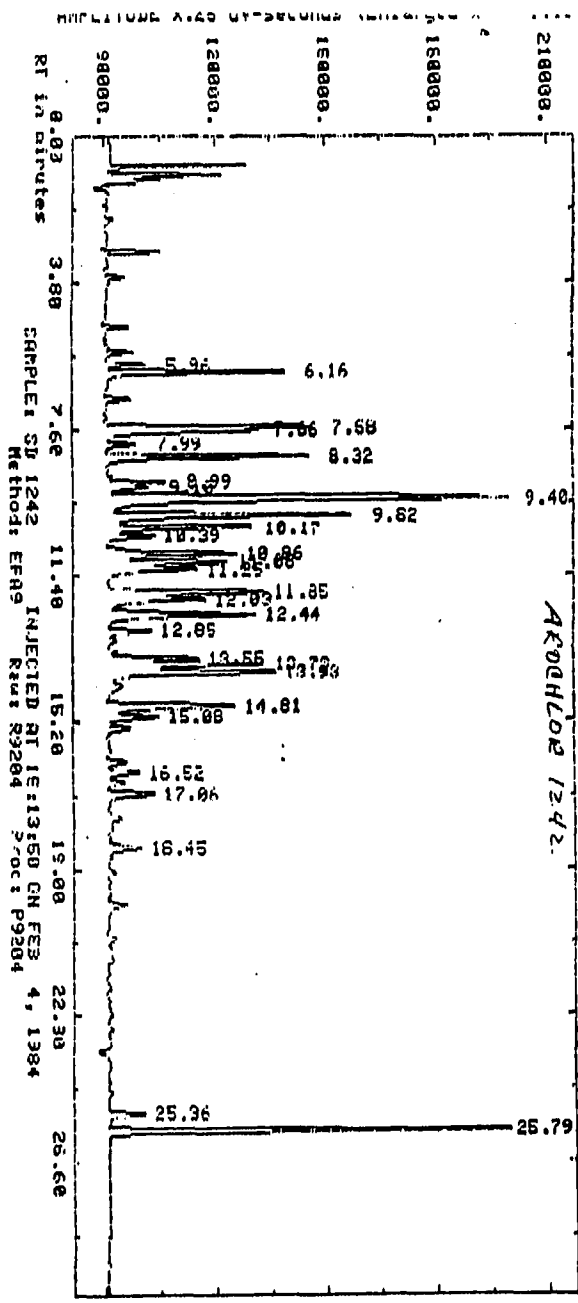
Processed data file: P9203

Raw data file: R9203

013972

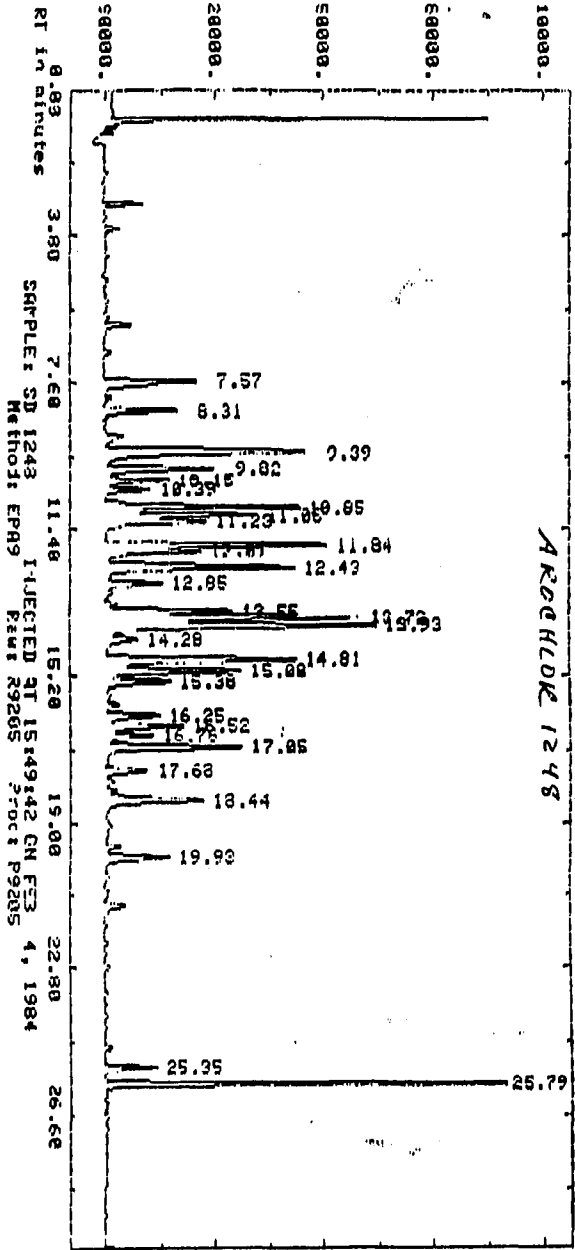
005997

2089



13973

005008



ARCHIVE 1248

DB-5 30M

SAMPLE: SD 1248
 METHOD: EPA9
 INJECTED AT 15:49:42 ON FEB 4, 1984
 FILE: R9205
 PROC: P9205

013975
 005300

Report: 724R.00 Channel: 9

Sample: SD 1248

Injected at 15:49:42 (IN FEB 4, 1984

ESTD Method: EPA9

Seq: SEQ92

Subsq/Temp: 1/ 5

Rtl: S

SI-width MV/Min Delay Min-Ar Runch
.250 3.000 3.00 32767

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
7.57	0.00	.10000E+01	196782.	RV	196782.000
8.31	0.00	.10000E+01	117785.	RR	117785.500
9.39	0.00	.10000E+01	557774.	UV	557774.000
9.82	0.00	.10000E+01	207399.	UV	207399.500
10.15	0.00	.10000E+01	131851.	UV	131851.250
10.39	0.00	.10000E+01	75790.	UV	75790.250
10.85	0.00	.10000E+01	368414.	UV	368414.500
11.06	0.00	.10000E+01	265620.	UV	265620.500
11.23	0.00	.10000E+01	236457.	VB	236457.500
11.84	0.00	.10000E+01	403856.	RV	403856.500
12.01	0.00	.10000E+01	210204.	UV	210204.750
12.43	0.00	.10000E+01	458463.	UV	458463.500
12.85	0.00	.10000E+01	105631.	UV	105631.000
13.55	0.00	.10000E+01	235816.	UV	235816.250
13.72	0.00	.10000E+01	536978.	UV	536978.500
13.93	0.00	.10000E+01	647182.	UV	647182.000
14.28	0.00	.10000E+01	83306.	UV	83306.000
14.81	0.00	.10000E+01	435867.	UV	435867.000
15.08	0.00	.10000E+01	309728.	UV	309728.500
15.38	0.00	.10000E+01	140336.	UV	140336.500
16.25	0.00	.10000E+01	113935.	UV	113935.250
16.52	0.00	.10000E+01	170043.	UV	170043.250
16.76	0.00	.10000E+01	100399.	UV	100399.000
17.05	0.00	.10000E+01	301724.	UV	301724.000
17.68	0.00	.10000E+01	82979.	UV	82979.000
18.44	0.00	.10000E+01	245788.	UV	245788.000
19.93	0.00	.10000E+01	150165.	UV	150165.500
25.35-25.35		.11096E-05	81086.	RR	81086.090 *DRC
25.79	0.00	.10000E+01	722330.	RB	722330.500

Total Area = 7690197.

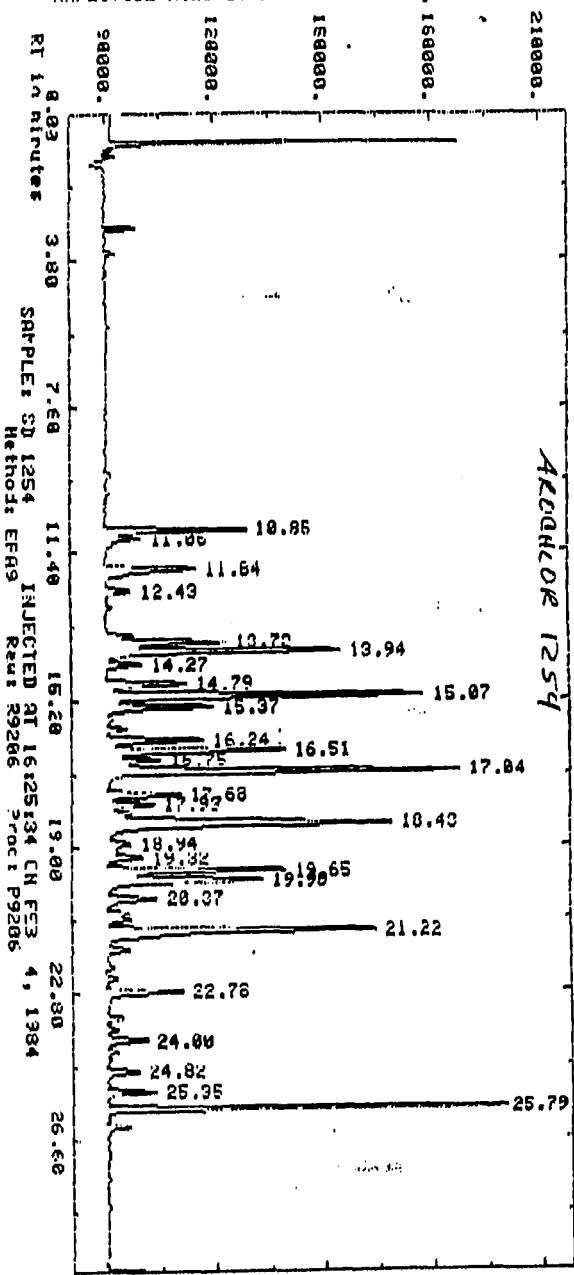
Total AREA % = 722330.500

Processed data file: P9205

Raw data file: R9205

013976

005301



DS-5 30-4

013877

005802

Report: 7249.00 Channel: 9

Sample: SD 1254

Injected at 16:25:34 ON FFR 4, 1984

ESTD Method: EPA9

Seq: SEQ92

Subsq/Samp: 1/ 6

Rt1: 6

Sl-width MU/Min Delay Min-Ar Bunch
.250 3.000 3.00 32767

Sup-Unk DvT JD-Lvl Ref-RTW XRTW XDJ1-F Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.013 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
10.85	0.00	.10000E+01	250555.	RV 250555.500	
11.06	0.00	.10000E+01	82505.	VR 82505.000	
11.84	0.00	.10000E+01	225832.	RV 225832.000	
12.43	0.00	.10000E+01	50900.	VR 50900.000	
13.72	0.00	.10000E+01	245743.	VV 245743.250	
13.94	0.00	.10000E+01	483909.	VV 483909.250	
14.27	0.00	.10000E+01	71837.	VR 71837.000	
14.79	0.00	.10000E+01	161480.	RV 161479.750	
15.07	0.00	.10000E+01	692627.	VV 692626.750	
15.37	0.00	.10000E+01	230295.	VV 230294.750	
16.24	0.00	.10000E+01	196793.	VV 196793.250	
16.51	0.00	.10000E+01	377961.	VV 377961.000	
16.75	0.00	.10000E+01	109863.	VV 109862.870	
17.04	0.00	.10000E+01	797764.	VV 797764.500	
17.68	0.00	.10000E+01	150955.	VV 150955.500	
17.93	0.00	.10000E+01	104261.	VV 104261.500	
18.43	0.00	.10000E+01	880278.	VV 880278.500	
18.94	0.00	.10000E+01	62504.	VV 62504.500	
19.32	0.00	.10000E+01	76806.	VV 76806.500	
19.65	0.00	.10000E+01	352006.	VV 352005.750	
19.90	0.00	.10000E+01	445410.	VV 445410.000	
20.37	0.00	.10000E+01	110201.	VV 110201.500	
21.22	0.00	.10000E+01	643302.	VV 643302.500	
22.78	0.00	.10000E+01	149508.	VR 149508.500	
24.00	0.00	.10000E+01	76736.	VV 76735.750	
24.82	0.00	.10000E+01	52538.	RR 52538.000	
25.35-25.35		.11096E-05	77990.	RR 77990.007	#DRC
25.79	0.00	.10000E+01	722166.	RR 722166.500	

Total Area = 7887735.

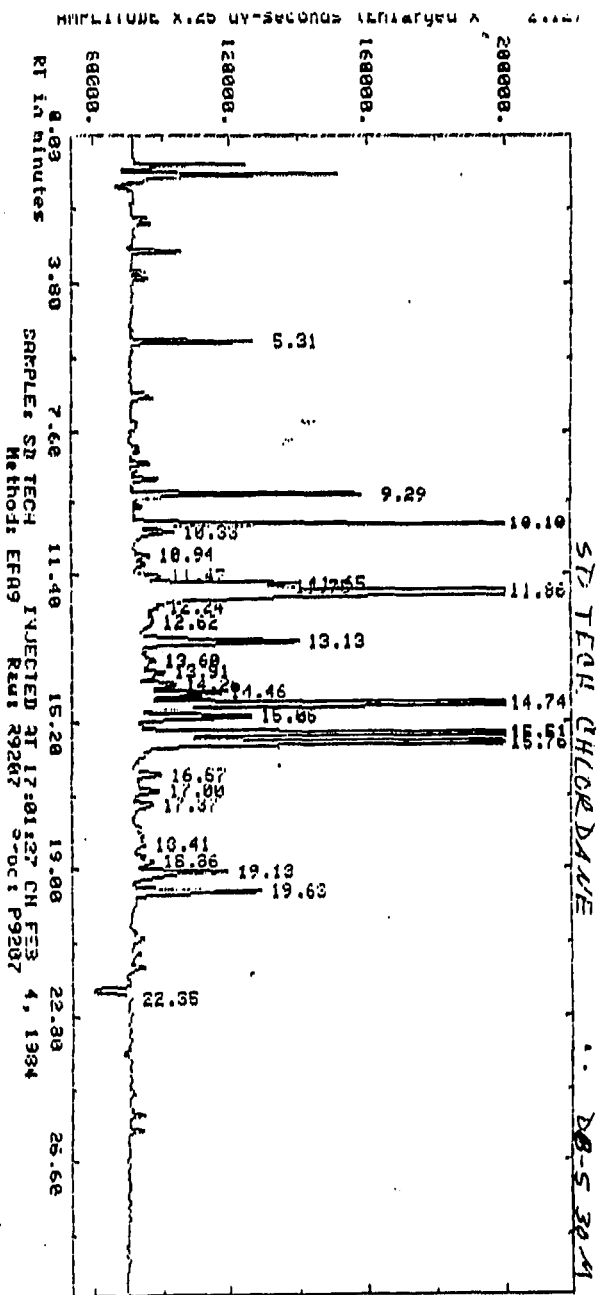
Total AREA % = 722166.500

Processed data file: P9206

Raw data file: R9206

013978

005303



013979
005204

Report: 7250.00 Channel: 9

Sample: SD TECH

Injected at 17:01:27 ON FEB 4, 1984

ESTD Method: EPA9

Seq: SEQ92

Subsq/Samp: 1/ 7

Btl: 2

SI-width MU/Min Delay Min-Ap Bunch
.250 3.000 3.00 32767

Sup-link DvT ID-Lvl Ref-RTW %RTW %Dil-f Isc
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 30.004 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area		AREA %	Name
5.31	0.00	.10000E+01	148647.	RV	1.480	
9.29	0.00	.10000E+01	773874.	VV	3.721	
10.10	0.00	.10000E+01	722601.	VV	7.193	
10.33	0.00	.10000E+01	108348.	VV	1.079	
10.94	0.00	.10000E+01	58266.	VV	1.500	
11.47	0.00	.10000E+01	85217.	VV	.848	
11.65	0.00	.10000E+01	280853.	VV	2.796	
11.75	0.00	.10000E+01	145588.	VV	1.449	
11.86	0.00	.10000E+01	2345519.	VV	23.348	
12.24	0.00	.10000E+01	57550.	VV	.573	
12.62	0.00	.10000E+01	78426.	VV	.781	
13.13	0.00	.10000E+01	441938.	VV	4.399	
13.60	0.00	.10000E+01	120329.	VV	1.198	
13.91	0.00	.10000E+01	78281.	VV	.779	
14.26	0.00	.10000E+01	137374.	VV	1.367	
14.46	0.00	.10000E+01	240452.	VV	2.393	
14.74	0.00	.10000E+01	1226971.	VV	12.213	
15.05	0.00	.10000E+01	276222.	VV	2.750	
15.51	0.00	.10000E+01	1129776.	VV	11.246	
15.76	0.00	.10000E+01	968351.	VV	9.639	
16.57	0.00	.10000E+01	83429.	VV	.830	
17.00	0.00	.10000E+01	105868.	VV	1.054	
17.37	0.00	.10000E+01	79839.	VV	.795	
18.41	0.00	.10000E+01	61142.	VV	.609	
18.86	0.00	.10000E+01	69061.	VV	.687	
19.13	0.00	.10000E+01	274761.	VV	2.735	
19.63	0.00	.10000E+01	281865.	VV	2.806	
22.35	0.00	.10000E+01	73550.	RR	.732	

Total Area = 10046064.

Total AREA % = 73550.500

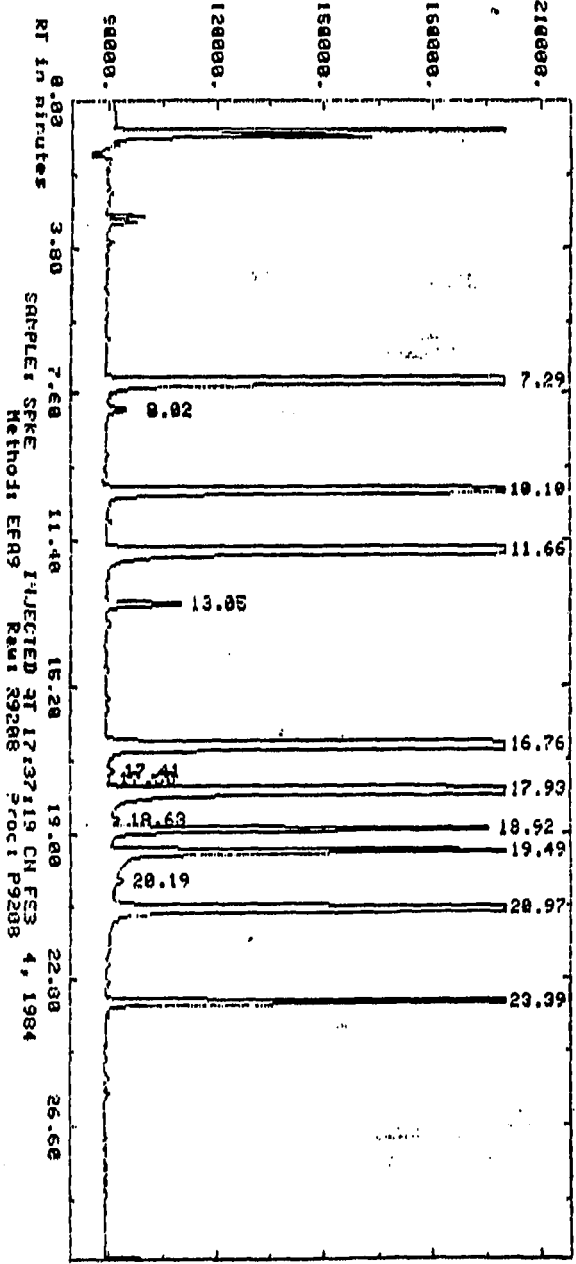
Processed data file: P9207

Raw data file: R9207

013980

005305

AMPLITUDE X.25 VV-Seconds (enlarged) X 21.00



RT in minutes
0.00 3.80 7.60 11.40 15.20 19.00 22.80 26.60
SAMPLE SPEKE
Method: ERS9
INJECTED AT 17:37:19 ON FEB 4, 1984
Raw: R9288 Proc: P9288

013981

005306

Report: 7251.00 Channel: 9

Sample: SPKE Injected at 17:37:19 ON FEB 4, 1984
ESTD Method: EPA9 Seq: SEQ92 Subseq/Samp: 1/ H Et1: B
SI-width MU/Min Delay Min-Ar Bunch
.250 3.000 3.00 32767
Sup-Unk DvT ID-1 v1 Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 0 .30 5.0 100.00 NO

Actual run time: 30.017 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area	AREA %	Name
7.29	0.00	.10000E+01	12863436.	18.767	RS
8.02	0.00	.10000E+01	58555.	.085	HR
10.10	0.00	.10000E+01	12345704.	18.012	BS
11.66	0.00	.10000E+01	12702272.	18.532	BS
13.05	0.00	.10000E+01	148154.	.216	BR
16.76	0.00	.10000E+01	12088712.	17.637	RS
17.41	0.00	.10000E+01	22057.	.032	HS
17.60	0.00	.10000E+01	6819.	.010	HS
17.93	0.00	.10000E+01	8641530.	12.607	RS
18.63	0.00	.10000E+01	33228.	.048	HS
18.92	0.00	.10000E+01	759356.	1.108	HS
19.49	0.00	.10000E+01	1105233.	1.617	HS
20.19	0.00	.10000E+01	52180.	.076	HS
20.97	0.00	.10000E+01	6520196.	9.513	RS
23.39	0.00	.10000E+01	1195696.	1.744	BR
Total Area = 68481024.			Total AREA % = 1195696.000		
Processed data file: P920R			Raw data file: R920R		

013982

005307

Report: 7252.00 Channel: 9

Sample: MD

Injected at 10:13:11 ON FEB 4, 1984

ESTD Method: EPA9

Seq: SEQ92

Subsq/Bamp: 1/9

Rtl: 9

SJ-width MV/Min
.250 3.000

DeJav
3.00

Min-Ac
32767

Kunch

Sup-link
NO

DvT
0.00

ID-lvl
0

Ref-RTW
.30

ZRTW
5.0

ZD1-f
100.00

ISO
NO

Actual run time: 30.013 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area	ARFA %	Name
7.27	0.00	.10000E+01	74864.	1.570	UV
11.67	0.00	.10000E+01	2014843.	42.265	BB
16.73	0.00	.10000E+01	70646.	1.482	BB
17.93	0.00	.10000E+01	1033721.	21.684	BB
18.92	0.00	.10000E+01	120134.	2.520	BB
19.49	0.00	.10000E+01	112931.	2.369	BB
20.97	0.00	.10000E+01	663291.	13.914	BB
23.40	0.00	.10000E+01	163076.	3.421	BB
24.18	0.00	.10000E+01	513618.	10.774	BB
Total Area = 4767127.			Total AREA % = 513618.000		
Processed data file: P9209			Raw data file: R9209		

013983

005308

2333

SEQUENCE RUN LOG - QC/QA
 SEQUENCE NAME - SEQ92
 CHANNEL # 9
 INSTRUMENT # 01
 TYPE(S) OF ANALYSIS PFST

FEB 6, 1984 1:18 PM
 CALIB STD LOT EPA1
 DATE STARTED _____
 DATE FINISHED _____

PAGE 1
 U. J. REF 12

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
SD EPA1	01			13:26:12 ON FEB 4, 1984
SD ARMX	02			14:02:05 ON FEB 4, 1984
SD TOXA	03			14:37:57 ON FEB 4, 1984
SD 1242	04			15:13:50 ON FEB 4, 1984
SD 1248	05			15:49:42 ON FEB 4, 1984
SD 1254	06			16:25:34 ON FEB 4, 1984
SD TECH	07			17:01:27 ON FEB 4, 1984
SPKE	08			17:37:19 ON FEB 4, 1984
MD	09			18:13:11 ON FEB 4, 1984
PP 19748	10		BLANK	18:49:05 ON FEB 4, 1984
PP 18651R	11	C#2331	R3368	19:24:57 ON FEB 4, 1984
PP 19559	12	C#2331	R3518	20:00:50 ON FEB 4, 1984
PP 19662	13	C#2397	F2784	20:36:48 ON FEB 4, 1984
PP 19663	14	C#2397	F2785	21:12:34 ON FEB 4, 1984
PP 19665	15	C#2397	F2787	21:48:27 ON FEB 4, 1984
PP 19666	16	C#2397	F2788(NPAR)	22:24:19 ON FEB 4, 1984
PP 19660	17	C#2397	F2782	23:00:11 ON FEB 4, 1984
SD EPA4	18			23:36:03 ON FEB 4, 1984
MD	19			0:11:56 ON FEB 5, 1984
PP 19661	20	C#2397	F2783	0:47:48 ON FEB 5, 1984
PP 19664	21	C#2397	F2786	1:23:19 ON FEB 5, 1984
PP 19560	22	C#2333	R4519	1:59:32 ON FEB 5, 1984
PP 19561	23	C#2333	R3520	2:35:24 ON FEB 5, 1984
PP 19562	24	C#2333	R3521	3:11:16 ON FEB 5, 1984
PP 19680	25		commercial	3:47:09 ON FEB 5, 1984
PP 19622	26		commercial	4:23:00 ON FEB 5, 1984
PP 19676	27		commercial	4:58:52 ON FEB 5, 1984
MD	28			5:34:46 ON FEB 5, 1984
SD EPA1	29			6:10:40 ON FEB 5, 1984
PP 19505	30		SS	6:46:32 ON FEB 5, 1984
PP 19498	31	C#2397	F2752	7:22:23 ON FEB 5, 1984
PP 19501	32	C#2397	F2753	7:58:14 ON FEB 5, 1984
PP 19504	33		SS	8:34:07 ON FEB 5, 1984
PP 19707	34	2333	R3513	9:09:59 ON FEB 5, 1984

013984

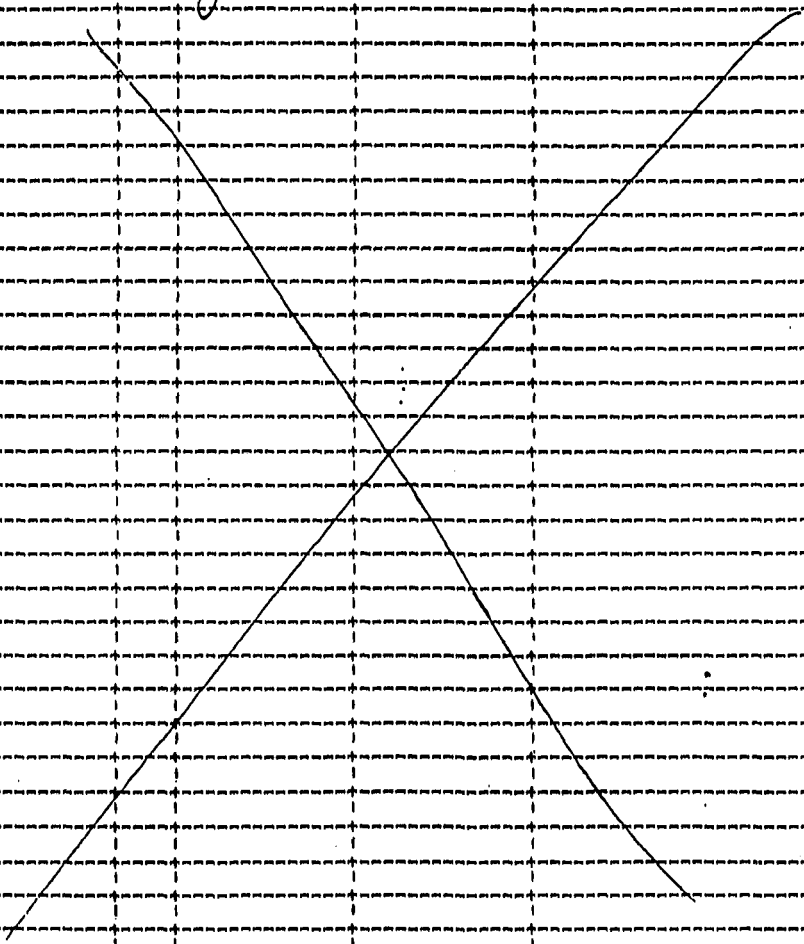
SEQUENCE RUN LOG - QC/QA
SEQUENCE NAME - SEQ92
CHANNEL * 9
INSTRUMENT * 01
TYPE(S) OF ANALYSIS PEST

FEB 6, 1984 1:18 PM
CALIB. STD LOT EPA3
DATE STARTED _____
DATE FINISHED _____

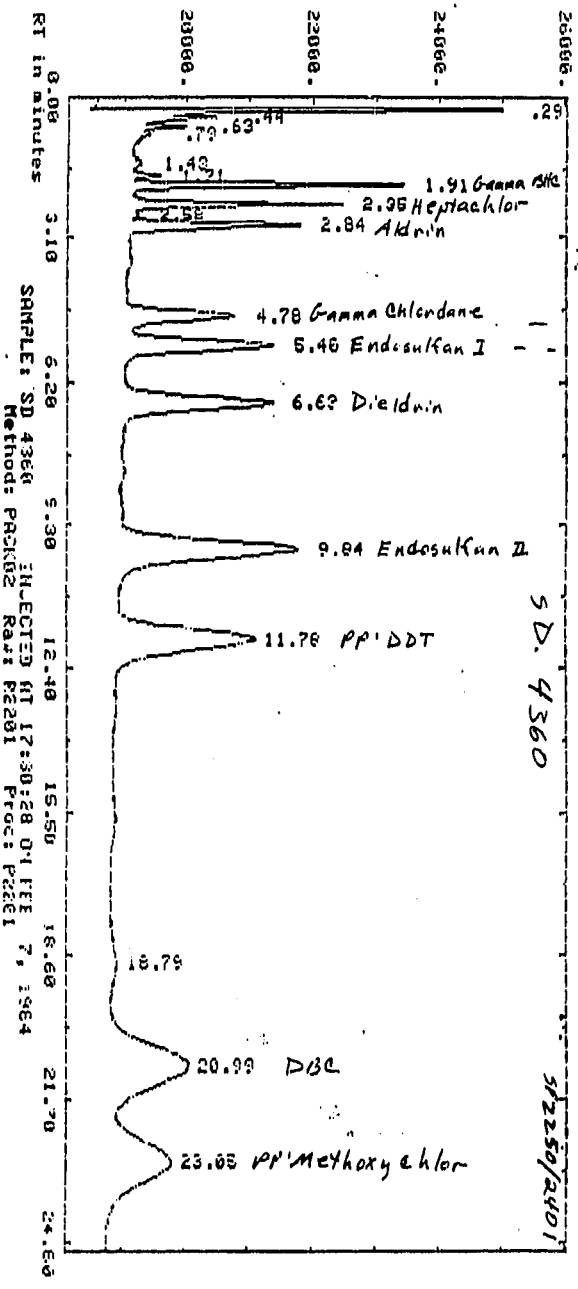
PAGE 2
I.L.U. REF 13

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
HR	35			9:45:53 ON FEB 5, 1984

MJ
2/12/84



013985
013985



013986

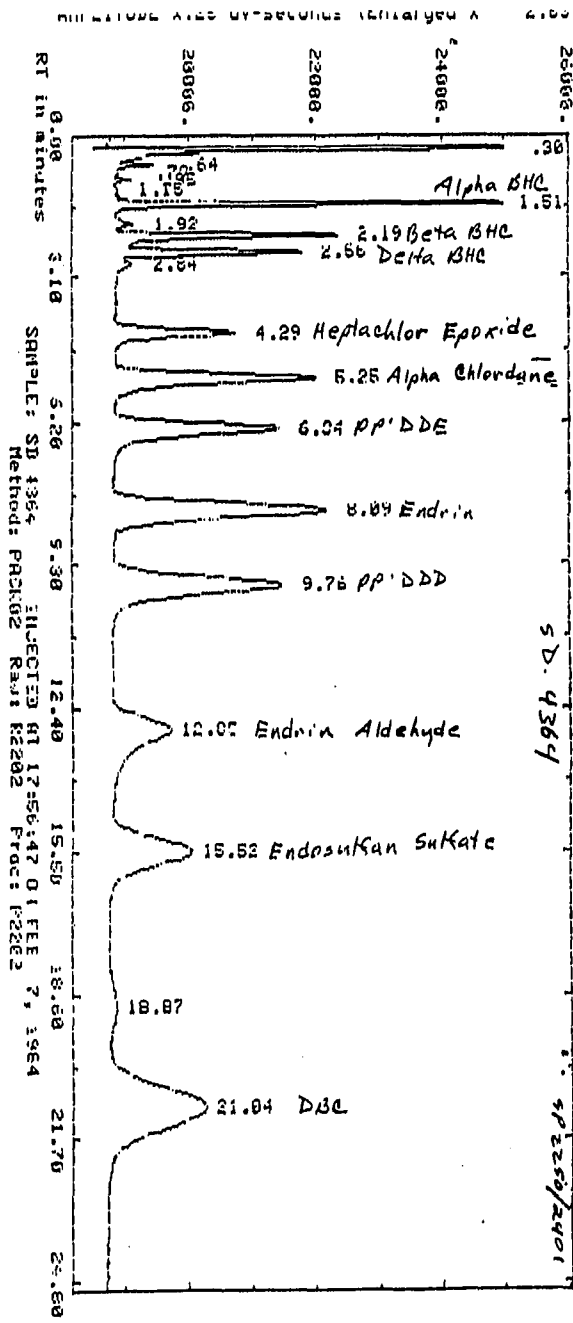
Report: 3231.11 Channel: 2
 Sample: SD 4360 Injected at 17:30:28 ON FEB 7, 1984
 ESTD Method: M24360 Seq: SEQ22 Subsq/Samp: 1/1 Rt: 1
 Sl-width MV/Min Delay Min-Ap Bunch
 .500 .300 0.00 2.0 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDi1-p Iso
 NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 25.008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	UG/ML	Name
.29	0.00	.10000E+01	25375. RR	25374 609	
.44	0.00	.10000E+01	1674. RR	1673.922	
.63	0.00	.10000E+01	1364. RR	1364.016	
.79	0.00	.10000E+01	326. RR	325.500	
1.43	0.00	.10000E+01	526. RR	525.875	
1.71	0.00	.10000E+01	974. RR	973.547	
1.91	1.91	.83952E-06	11912. RR	.010	GAMMA BHC
2.35	2.35	.86403E-06	11574. RR	.010	HEPTACHLOR
2.58	0.00	.10000E+01	119. RR	118.953	
2.84	2.85	.88723E-06	11271. RR	.030	AI DRIN
4.78	4.78	.93568E-06	10687. RR	.010	GAMMA CHLORDANE
5.40	5.40	.11436E-05	17488. RR	.020	ENDOSULFAN I
6.63	6.63	.87134E-06	22953. RR	.020	DIELDRIN
9.84	9.84	.97971E-06	40828. RR	.040	ENDOSULFAN II
11.78	11.78	.16680E-05	35971. RR	.060	PP' DDT
18.79	0.00	.10000E+01	2839. RR	2839.250	
20.99	20.99	.14509E-05	34462. RR	.050	MDBC
23.05	23.04	.36608E-06	27316. RF	.010	PP'METHOXYCHLOR

Total Area = 257659. Total UG/ML = 27316.500
 Processed data file: P2201 Raw data file: R2201

013987
 005312
 29



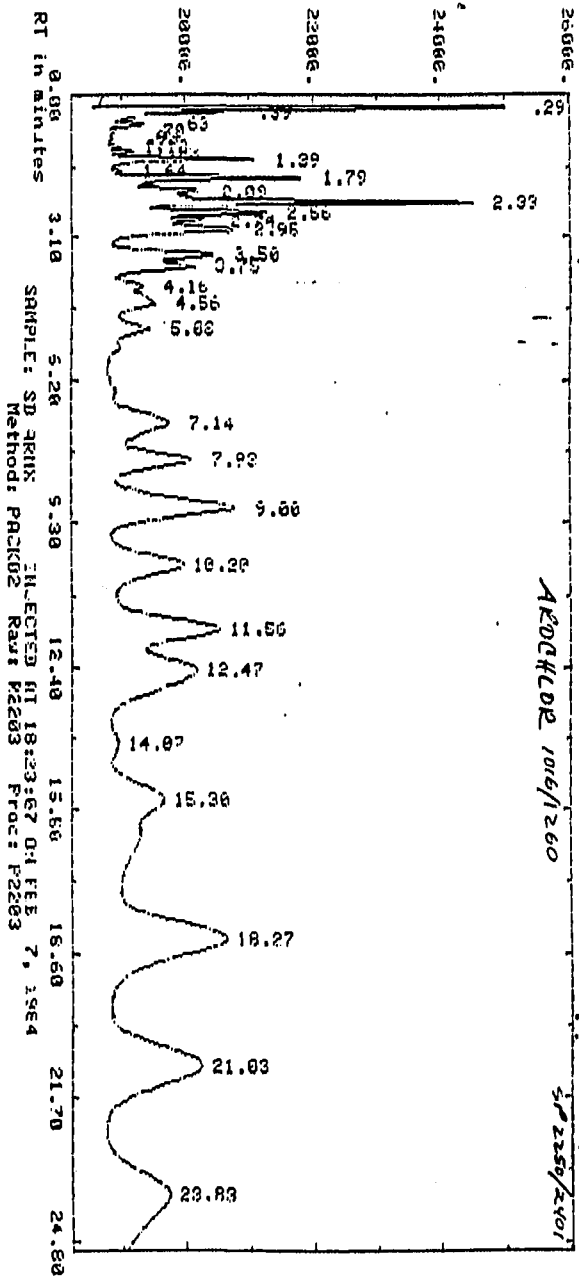
88647600

Report: 3232.11 Channel: 2
 Sample: SD 4364 Injected at 17:56:47 ON FEB 7, 1984
 ESTD Method: M24364 Seq: SEQ22 Subsq/Samp: 1/2 Rtl: 2
 Sl-width MV/Min Delay Min-Ar Runch
 .500 .300 0.00 20 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 25.008 minutes

RT	ITM	Factor	Area	MG/ML	Name
.30	0.00	.10000E+01	19942.	BB 19941.859	
.64	0.00	.10000E+01	1066.	BB 1065.875	
.79	0.00	.10000E+01	168.	BB 168.203	
.95	0.00	.10000E+01	457.	BB 457.156	
1.15	0.00	.13562E+01	50.	BB 50.109	
1.51	1.50	.13562E-05	14747.	BB 020	ALPHA BHC
1.92	0.00	.10000E+01	819.	BB R19.125	
2.19	2.19	.18165E-05	11010.	BB 070	BETA BHC
2.56	2.56	.10384E-05	9630.	BB 010	DELTA BHC
2.84	0.00	.10000E+01	443.	BB 443.031	
4.29	4.29	.85262E-06	11728.	BB 010	HEPTACHLOR EPOXIDE
5.25	5.25	.79403E-06	25188.	BB 020	ALPHA CHLORDANE
6.34	6.34	.80804E-06	24751.	BB 070	PP'DDE
8.09	8.10	.10473E-05	38193.	BB 040	ENDRIN
9.76	9.77	.10777E-05	37115.	BB 040	PP'DDD
12.85	12.86	.19566E-05	20443.	BB 040	ENDRIN ALDEHYDE
15.52	15.52	.15189E-05	26334.	BB 040	FINDOSULFAN SULFATE
18.87	0.00	.10000E+01	3575.	BB 2574.500	
21.04-21.04		.10484E-05	47690.	BB 050	*DBC
Total Area =		292351.	Total MG/ML =		47690.500
Processed data file: P2202			Raw data file: R2202		

013989

005314



013990

005315

Report: 3233.11 Channel: 2

Sample: SD ARMX Injected at 18:23:07 ON FEB 7, 1984
ESTD Method: M2ARMX Seq: SEQ?? Subsq/Samp: 1 / 3 Rtl: 3
SI-width MV/Min Delay Min-Ap Bunch
.500 .300 0.00 20 Auto
Sup-link DvT ID-Lvl Ref-RTW ZRTW %Dil-f Tsp
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 25.017 minutes

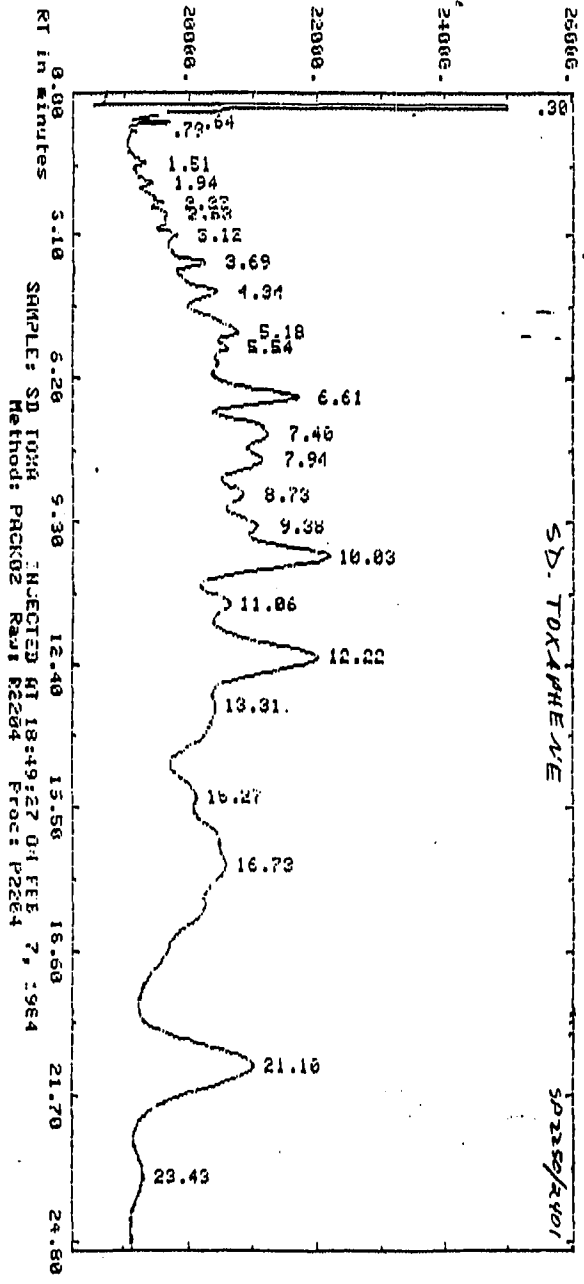
Ended not on baseline
Summed designated peaks

RT	ITM	Factor	Area	UG/MI	Name
.29	0.00	.10000E+01	14094. RR	14093.805	
.39	0.00	.10000E+01	379. RR	379.125	
.63	0.00	.10000E+01	996. RR	995.969	
.79	0.00	.10000E+01	193. RR	192.516	
.93	0.00	.10000E+01	43. RR	42.602	
1.12	0.00	.10000E+01	254. RR	254.297	
1.23	0.00	.10000E+01	483. RR	483.219	
1.39	1.39	.54038E-04	5552. RR	300	+PCB1016-A
1.64	0.00	.10000E+01	184. RR	184.281	
1.79	1.79	.41079E-04	7303. RR	300	+PCB1016-B
2.09	2.09	.16399E-03	1829. RR	300	+PCB1016-C
2.33	2.33	.19679E-04	15845. RR	300	+PCB1016-D
2.56	2.56	.61700E-04	4862. RR	300	+PCB1016-E
2.74	2.74	.21684E-03	1384. RR	300	+PCB1016-F
2.95	2.95	.54265E-04	5528. RR	300	+PCB1016-G
3.50	3.50	.66296E-04	4525. RR	300	+PCB1016-H
3.75	3.75	.96245E-04	3117. RR	300	+PCB1016-I
4.16	0.00	.10000E+01	857. RR	857.281	
4.56	4.56	.88746E-04	3380. RR	300	+PCB1016-J
5.08	5.07	.92026E-04	3260. RR	300	+PCB1016-K
7.14	7.14	.28206E-04	10636. RR	300	+PCB1260-A
7.93	7.93	.27361E-04	10964. RR	300	+PCB1260-B
9.00	9.00	.11756E-04	25519. RR	300	+PCB1260-C
10.20	10.19	.18762E-04	15990. RR	300	+PCB1260-D
11.56	11.56	.16592E-04	18081. RR	300	+PCB1260-E
12.47	12.46	.15572E-04	19266. RR	300	+PCB1260-F
14.07	0.00	.10000E+01	1274. RR	1273.625	
15.30	15.28	.12162E-04	24666. RR	300	+PCB1260-G
18.27	18.27	.67036E-05	44752. RR	300	+PCB1260-H
21.03	21.03	.11621E-05	43024. RR	0.50	*DRU
23.83	23.82	.11889E-04	25233. RR	300	+PCB1260-I

Total Area = 314874. Total UG/MI = 25232.500
Processed data file: P2203 Raw data file: R2203

013991

005316



013992

005817

Report: 3234.11 Channel: 2

Sample: SD TOXA

Injected at 18:49:27 ON FEB 7, 1984

ESTD Method: M2TOXA

Seq: 5EQ22

Subsq/amp: 1/4

Rt: 4

SI-width 500 MV/Min .300 Delay 0.00 Min-Ar 20 Bunch Auto

Sup-Unk NO DvT 0.00 ID-Lvl 0 Ref-RTW .30 XRTW 5.0 XDIJ-f 100.00 Iso NO

Actual run time: 25.017 minutes

Summed designated peaks

RT	ITM	Factor	Area	UG/ML	Name
.30	0.00	.10000E+01	37293. RR	37293.344	
.64	0.00	.10000E+01	1073. RR	1072.953	
.79	0.00	.10000E+01	259. RR	259.484	
1.51	0.00	.10000E+01	719. RR	718.543	
1.94	0.00	.10000E+01	927. RR	927.344	
2.37	0.00	.10000E+01	1300. RR	1299.844	
2.63	0.00	.10000E+01	1810. RR	1809.563	
3.12	0.00	.10000E+01	1050. RR	1049.500	
3.69	0.00	.10000E+01	2675. RR	2675.188	
4.34	4.33	.20285E-03	4930. RR	1.000	+TOXAPHE-A
5.18	0.00	.10000E+01	5266. RR	5266.188	
5.54	0.00	.10000E+01	809. RR	808.656	
5.61	5.61	.72818E-04	13733. RR	1.000	+TOXAPHE-B
7.40	7.40	.14132E-03	2076. RR	1.000	+TOXAPHE-C
7.94	7.94	.25991E-03	3847. RR	1.000	+TOXAPHE-D
8.73	8.73	.31442E-03	3181. RR	1.000	+TOXAPHE-E
9.38	0.00	.10000E+01	1962. RR	1961.625	
10.03	10.03	.42730E-04	23403. RR	1.000	+TOXAPHE-F
11.06	11.06	.24438E-03	4092. RR	1.000	+TOXAPHE-G
12.22	12.22	.29227E-04	34215. RR	1.000	+TOXAPHE-H
13.31	0.00	.10000E+01	6951. RR	6950.875	
15.27	0.00	.10000E+01	2127. RR	2127.125	
16.73	0.00	.10000E+01	44583. RR	44583.500	
21.10-21.10		.63135E-04	60143. RR	0.50	#DRC
23.43	0.00	.10000E+01	4195. RR	4194.750	

Total Area = 267618.

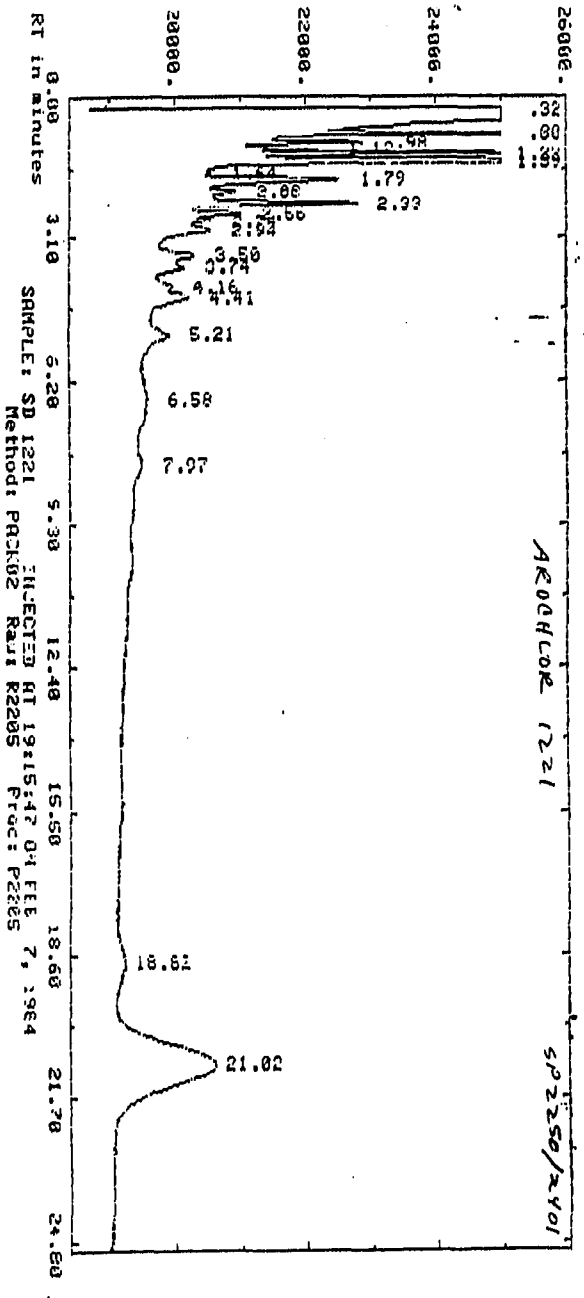
Total UG/ML = 4194.750

Processed data file: R2204

Raw data file: R2204

013993

005818



RT in minutes

SAMPLE: SD 1221 INJECTED RT 19:15:47 04 FEB 7, 1984

Method: PCK02 Raw: R2205 Proc: P2205

ARODHLOE 1221

SP2250/2101

013994

005319

Report: 3235.00 Channel: 2

Sample: SD 1221 Injected at 19:15:47 ON FEB 7, 1984

ESTD Method: PACK02 Seq: SEQ22 Subsq/Samp: 1/5 Rtl: 5

SI-width MV/Min Delay Min-Ar Runch
.500 .300 0.00 20 Auto

Sup-Link Dvt ID-Lvl Ref-RTW XRTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 25.008 minutes

RT	ITM	Factor	Area	UG/ML	Name
.32	0.00	.10000E+01	443237.	BB 443237.	250
.80	0.00	.10000E+01	6851.	BB 6850.	828
.98	0.00	.10000E+01	2424.	BB 2423.	875
1.12	0.00	.10000E+01	1679.	BB 1679.	172
1.22	0.00	.10000E+01	6415.	BB 6415.	141
1.39	0.00	.10000E+01	24200.	BB 24199.	781
1.64	0.00	.10000E+01	67.	BB 67.	469
1.79	0.00	.10000E+01	6823.	BB 6822.	781
2.08	0.00	.10000E+01	1098.	BB 1097.	516
2.33	0.00	.10000E+01	7392.	BB 7392.	156
2.56	0.00	.10000E+01	2025.	BB 2025.	281
2.74	0.00	.10000E+01	582.	BB 582.	031
3.23	0.00	.10000E+01	1510.	BB 1510.	188
3.50	0.00	.10000E+01	1644.	BB 1644.	219
3.74	0.00	.10000E+01	895.	BB 895.	438
4.16	0.00	.10000E+01	361.	BB 361.	313
4.41	0.00	.10000E+01	1771.	BB 1770.	750
5.21	0.00	.10000E+01	2742.	BB 2741.	500
5.58	0.00	.10000E+01	503.	BB 502.	750
7.97	0.00	.10000E+01	989.	BB 988.	875
18.82	0.00	.10000E+01	2947.	BB 2946.	500
21.02-21.02		.17118E-06	47409.	BB	.008 #)RC

Total Area = 563564.

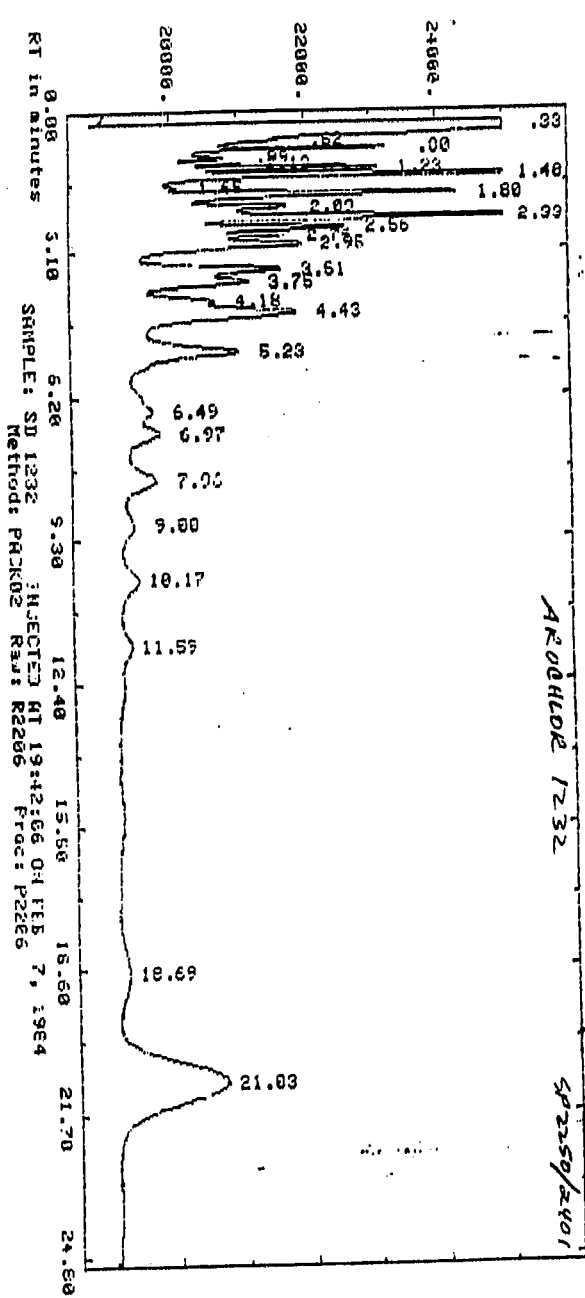
Total UG/ML. = 47409.250

Processed data file: P2205

Raw data file: R2205

013995

005320



005821 013996

Report: 3P36.00 Channel: 2

Sample: SD 1232

Injected at 19:42:06 ON FEB 7, 1984

ESTD Method: PACK02

Seq: SEQ02

Subsq/Samp: 1/ 6

Rt: 6

SI-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 20 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 25.017 minutes

RT	ITM	Factor	Area	UG/ML	Name
.33	0.00	.10000E+01	219671	RR 219671	470
.62	0.00	.10000E+01	183	RR 183	266
.80	0.00	.10000E+01	3527	RR 3527	281
.99	0.00	.10000E+01	818	RR 817	578
1.13	0.00	.10000E+01	1213	RR 1213	391
1.23	0.00	.10000E+01	4277	RR 4277	078
1.40	0.00	.10000E+01	21008	RR 21008	062
1.65	0.00	.10000E+01	236	RR 236	141
1.80	0.00	.10000E+01	12447	RR 12447	188
2.07	0.00	.10000E+01	3472	RR 3471	859
2.33	0.00	.10000E+01	20802	RR 20802	125
2.56	0.00	.10000E+01	5601	RR 5600	797
2.74	0.00	.10000E+01	2133	RR 2133	016
2.95	0.00	.10000E+01	6455	RR 6454	938
3.51	0.00	.10000E+01	5803	RR 5803	000
3.75	0.00	.10000E+01	3523	RR 3523	031
4.18	0.00	.10000E+01	968	RR 967	781
4.43	0.00	.10000E+01	9340	RR 9340	375
5.23	0.00	.10000E+01	12867	RR 12866	750
5.49	0.00	.10000E+01	2043	RR 2043	375
6.27	0.00	.10000E+01	2501	RR 2500	561
7.96	0.00	.10000E+01	5153	RR 5153	375
9.00	0.00	.10000E+01	1998	RR 1998	375
10.17	0.00	.10000E+01	3855	RR 3855	000
11.59	0.00	.10000E+01	2198	RR 2197	875
18.69	0.00	.10000E+01	4679	RR 4678	500
21.03-21.03		.17118E-06	50569	RR	.009

Total Area = 407341.

Total UG/ML = 50568.750

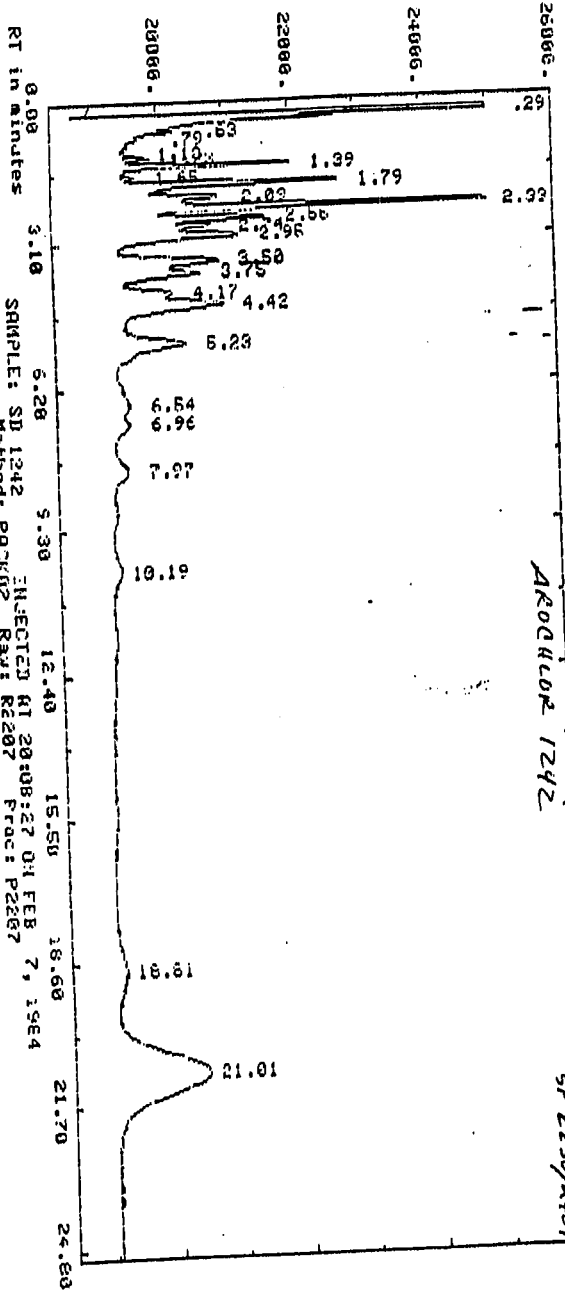
Processed data file: P2206

Raw data file: R2206

013997

005822

AMPLITUDE X.25 BY-SECOND (ENLARGED X 0.71)



SAMPLE: SD 1242 INJECTED AT 20:08:27 04 FEB 7, 1984
 Method: PCK02 Raw: R2207 Proc: P2267

005.013998

Report: 3237.11 Channel: 2
 Sample: 6D 124P Injected at 20:08:27 ON FEB 7, 1984
 ESTD Method: M21242 Seq: SEQ22 Subsq/Samp: 1/7 Bit: 7
 Sl-width MV/Min Delay Min-Ar Runch
 .500 .300 0.00 20 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Di1-f I50
 NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 25.008 minutes
 Summed designated peaks

RT	ITM	Factor	Area	UG/MI	Name
.29	0.00	.10000E+01	40646. BB	40645.781	
.63	0.00	.10000E+01	500. BB	499.750	
.79	0.00	.10000E+01	109. BB	108.813	
1.13	0.00	.10000E+01	283. BB	283.438	
1.23	0.00	.10000E+01	563. BB	562.867	
1.39	1.39	.66783E-04	5990. BB	.400	+PCR1242-A
1.65	0.00	.10000E+01	248. BB	248.283	
1.79	1.79	.48397E-04	8265. BB	.400	+PCR1242-B
2.09	2.09	.15470E-03	2586. BB	.400	+PCR1242-C
2.33	2.33	.25012E-04	15992. BB	.400	+PCR1242-D
2.56	2.56	.92922E-04	4305. BB	.400	+PCR1242-E
2.74	2.74	.27400E-03	1459. BB	.400	+PCR1242-F
2.95	2.95	.75684E-04	5285. BB	.400	+PCR1242-G
3.33	3.33	.95169E-04	4203. BB	.400	+PCR1242-H
3.75	3.75	.13800E-03	2899. BB	.400	+PCR1242-I
4.17	0.00	.10000E+01	918. BB	918.313	
4.42	4.41	.78989E-04	5064. BB	.400	+PCR1242-J
5.23	5.22	.47553E-04	8412. BB	.400	+PCR1242-K
6.64	0.00	.10000E+01	1140. BB	1139.500	
6.96	0.00	.10000E+01	744. BB	744.000	
7.97	0.00	.10000E+01	2522. BB	2522.000	
10.19	0.00	.10000E+01	1926. BB	1925.750	
18.81	0.00	.10000E+01	3539. BB	3538.500	
21.01-21.03		.11724E-05	42648. BB	.050	#DEC

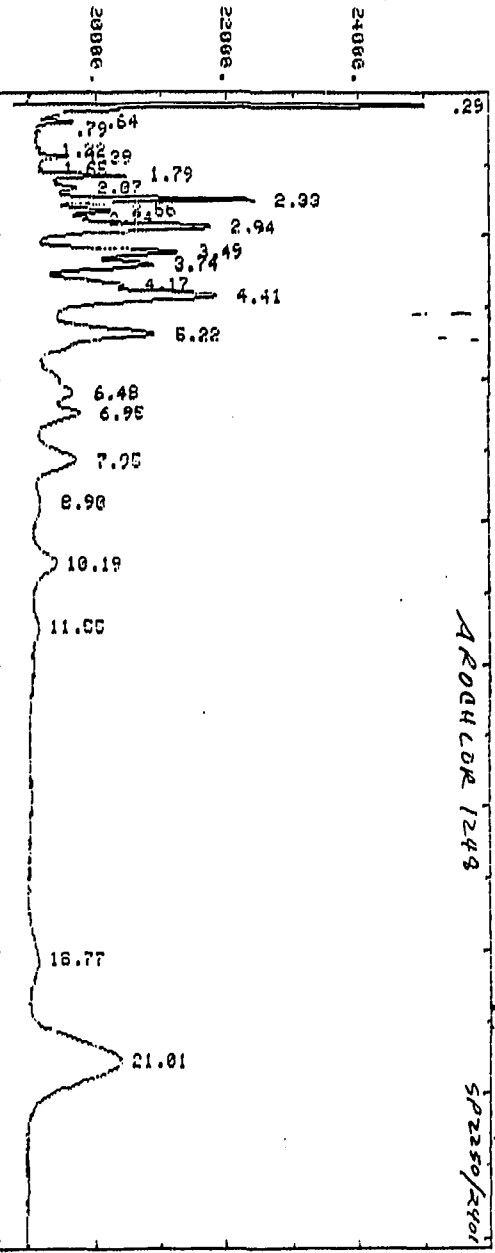
Total Area = 160214. Total UG/ML = 42648.000
 Processed data file: P2207 Raw data file: R2207

0013309

INJECTED AT 20:34:47 0:1 FEE 7, 1964

RT in minutes
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80

SAMPLE: SD 1248
Method: PAK02
INJECTED AT 20:34:47 0:1 FEE 7, 1964
Proc: P2268



AQUADUR 1248

SP2250/2401

014000
0325

Report: 3238.11 Channel: 2

Sample: SD 1248

Injected at 20:34:47 ON FEB 7, 1984

ESTD Method: M21248

Seq: SEQ22

Subseq/Samp: 1/ R

Rtl: E

SL-Width MV/Min Delay Min-Ar Runch
.500 .300 0.00 20 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW ZD1-f Tso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 25.017 minutes

Summed designated peaks

RT	ITM	Factor	Area	UG/ML	Name
.29	0.00	.10000E+01	30555. RR	30554.937	
.64	0.00	.10000E+01	980. RR	980.313	
.79	0.00	.10000E+01	135. RR	135.375	
1.22	0.00	.10000E+01	RR	RR.375	
1.39	0.00	.10000E+01	1201. RR	1200.625	
1.65	0.00	.10000E+01	63. RR	63.078	
1.79	1.79	.13285E-03	3011. RR	400	+PCB1248-A
2.07	0.00	.10000E+01	1025. RR	1024.656	
2.33	2.33	.42829E-04	9340. RR	400	+PCB1248-B
2.56	0.00	.10000E+01	1989. RR	1988.906	
2.74	0.00	.10000E+01	228. RR	228.297	
2.94	2.94	.10000E+01	11477. RR	400	+PCB1248-C
3.49	3.49	.34852E-04	6009. RR	400	+PCB1248-D
3.74	3.74	.66570E-04	4599. RR	400	+PCB1248-E
4.17	0.00	.10000E+01	952. RR	951.844	
4.41	4.41	.38118E-04	10494. RR	400	+PCB1248-F
5.22	5.22	.26659E-04	15004. RR	400	+PCB1248-G
6.48	6.48	.11920E-03	3356. RR	400	+PCB1248-H
6.95	6.95	.12368E-03	3234. RR	400	+PCB1248-I
7.95	7.95	.52923E-04	7558. RR	400	+PCB1248-J
8.90	0.00	.10000E+01	1156. RR	1156.000	
10.19	0.00	.10000E+01	5329. RR	5328.500	
11.55	0.00	.10000E+01	1364. RR	1363.625	
18.77	0.00	.10000E+01	3903. RR	3902.500	
21.01-21.01		.11496E-05	43492. RR	.050	*DRC

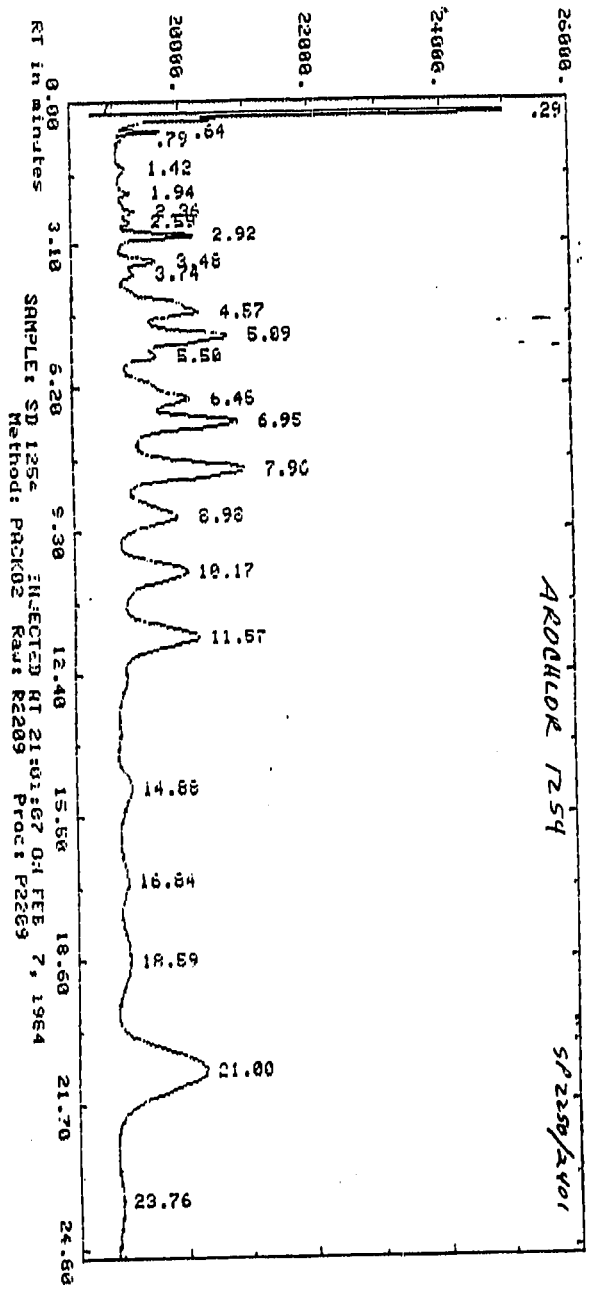
Total Area = 166540.

Total UG/ML = 43492.250

Processed data file: P2208

Raw data file: R2208

014001
1985.3.26



014002
 005427

Report: 3239.11 Channel: 2

Sample: SD 1254

Injected at 21:01:07 ON FEB 7, 1984

ESTD Method: M21254

Seq: SEQ22

Subsq/Samp: 1/9

Rtl: 9

SJ-width MV/Min Delay Min-Ac Runch
500 .300 0.00 20 Auto

Sup-Unk DvT TD-Lvl Ref-RTW XRTW XDi-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 25.017 minutes

Summed designated peaks

RT	ITM	Factor	Area	UG/ML	Name
.29	0.00	.10000E+01	31840. BB	31839.797	
.64	0.00	.10000E+01	1229. BB	1228.500	
.79	0.00	.10000E+01	155. BB	154.703	
1.42	0.00	.10000E+01	634. BB	633.875	
1.94	0.00	.10000E+01	426. BB	426.484	
2.36	0.00	.10000E+01	768. BB	768.313	
2.59	0.00	.10000E+01	362. BB	362.438	
2.92	2.91	.57930E-04	5179. BB	.300	+PCB1254-A
3.48	3.48	.14881E-03	2016. BB	.300	+PCB1254-B
3.74	0.00	.10000E+01	456. BB	455.719	
4.57	4.56	.32826E-04	9139. BB	.300	+PCB1254-C
4.89	5.09	.31530E-04	9515. BB	.300	+PCB1254-D
5.50	0.00	.10000E+01	879. BB	879.434	
6.45	6.45	.47230E-04	6352. BB	.300	+PCB1254-E
6.95	6.95	.26632E-04	11265. BB	.300	+PCB1254-F
7.96	7.95	.15326E-04	19575. BB	.300	+PCB1254-G
8.98	8.98	.28379E-04	10571. BB	.300	+PCB1254-H
10.17	10.16	.20768E-04	14445. BB	.300	+PCB1254-I
11.57	11.57	.14668E-04	20453. BB	.300	+PCB1254-J
14.88	0.00	.10000E+01	4285. BB	4284.500	
16.84	0.00	.10000E+01	2089. BB	2089.125	
18.59	0.00	.10000E+01	4676. BB	4675.500	
21.00-21.00		.11930E-05	41911. BB	.050	#DHC
23.74	0.00	.10000E+01	2104. BB	2104.000	

Total Area = 200323.

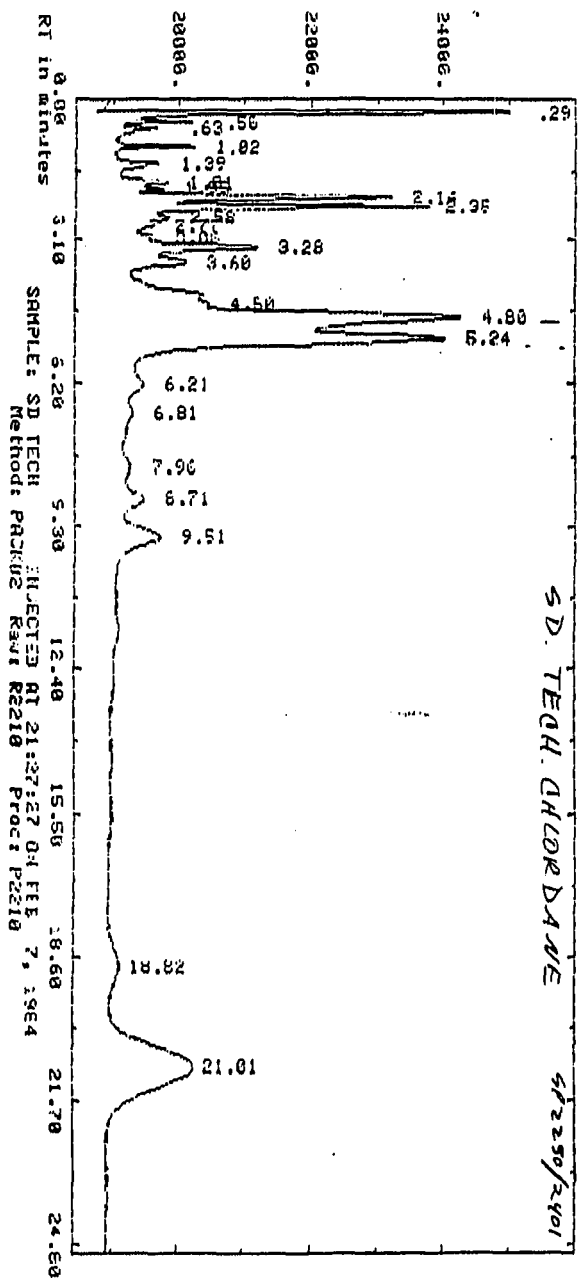
Total UG/ML = 2104.000

Processed data file: P2209

Raw data file: R2209

014003

005328



RT in minutes

SAMPLE: SD TECH
 Method: PCKMUS Kawi RZ210
 INJECTED AT 21:27:27 ON FEB 7, 1964
 Proc: PZ210

SD. TECH. CHLOR DAVE
 SP2250/2401

014004
 005329

Report: 3240.00 Channel: 2

Sample: SD TECH

Injected at 21:27:27 ON FEB 7, 1984

ESTD Method: PACK02

Seq: SEQ02

Subsq/Samp: 1/10

Et1: 10

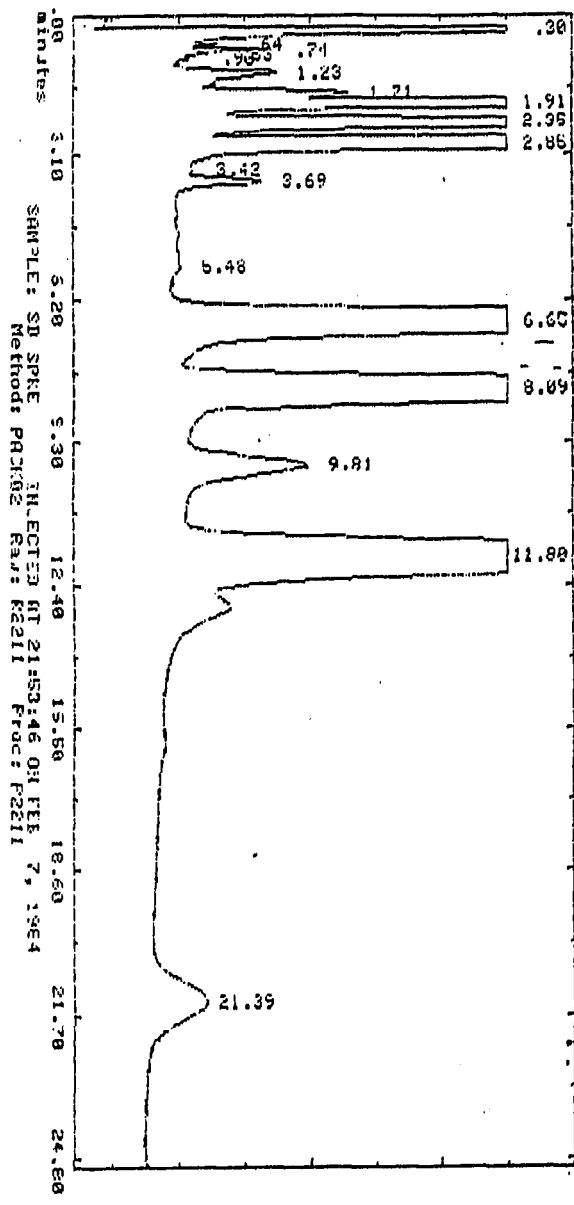
SI-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 20 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDI-f Iso
NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 25.008 minutes

RT	ITM	Factor	Area	UG/MI.	Name
.29	0.00	.10000E+01	36821. BB	36821.219	
.50	0.00	.10000E+01	992. BB	991.891	
.63	0.00	.10000E+01	1472. BB	1472.188	
1.02	0.00	.10000E+01	2145. BB	2145.219	
1.39	0.00	.10000E+01	2479. BB	2479.125	
1.81	0.00	.10000E+01	1031. BB	1031.125	
1.95	0.00	.10000E+01	665. BB	664.594	
2.14	0.00	.10000E+01	10150. BB	10150.094	
2.35	0.00	.10000E+01	12569. BB	12569.312	
2.58	0.00	.10000E+01	620. BB	620.172	
2.77	0.00	.10000E+01	404. BB	403.719	
3.06	0.00	.10000E+01	340. BB	340.063	
3.36	0.00	.10000E+01	6543. BB	6543.250	
3.60	0.00	.10000E+01	2813. BB	2812.750	
4.50	0.00	.10000E+01	181. BB	180.953	
4.80	0.00	.10000E+01	19777. BB	19777.875	
5.24	0.00	.10000E+01	10109. BB	10109.375	
6.21	0.00	.10000E+01	1730. BB	1730.188	
6.81	0.00	.10000E+01	899. BB	899.750	
7.96	0.00	.10000E+01	891. BB	891.125	
8.71	0.00	.10000E+01	3136. BB	3135.938	
9.51	0.00	.10000E+01	7491. BB	7491.375	
18.82	0.00	.10000E+01	4065. BB	4065.250	
21.01-21.01		.17118E-06	40216. BB	.007	*DBC
Total Area = 167542.			Total UG/MI = 40216.250		
Processed data file: P2210			Raw data file: R2210		

014005
005800



014006

005331

Report: 3241.00 Channel: 2
 Sample: SD SPKF
 ESTD Method: PACK02 Seq: SEQ02 Subseq/Samp: 1/11 Rtl: 11
 Injected at 20:53:46 ON FEB 7, 1984
 SI-width MV/Min Delay Min-Ac Bunch
 .500 .300 0.00 20 Auto
 Sup-Unk Dv1 ID-I v1 Ref-RTW ZRTW ZD11-P T50
 NO 0.00 0 0 .30 5.0 100.00 NO

Actual run time: 25.017 minutes

Ended not on baseline
 No reference peak found

RT	ITM	Factor	Area	UG/ML	Name
.30	0.00	.10000E+01	380170.	BB	14.845
.64	0.00	.10000E+01	526.	BB	.021
.74	0.00	.10000E+01	1427.	BB	.056
.83	0.00	.10000E+01	216.	BB	.008
.93	0.00	.10000E+01	24.	BB	.001
1.23	0.00	.10000E+01	7768.	BB	.303
1.71	0.00	.10000E+01	4795.	BB	.187
1.91	0.00	.10000E+01	355967.	BB	13.900
2.35	0.00	.10000E+01	368687.	BB	14.392
2.85	0.00	.10000E+01	366001.	BB	14.292
3.42	0.00	.10000E+01	190.	BB	.007
3.69	0.00	.10000E+01	5476.	BB	.214
5.48	0.00	.10000E+01	1027.	BB	.040
6.65	0.00	.10000E+01	410208.	BB	16.018
8.09	0.00	.10000E+01	323191.	BB	12.620
9.81	0.00	.10000E+01	26278.	BB	1.026
11.80	0.00	.10000E+01	283225.	BB	11.060
21.39	0.00	.10000E+01	25701.	BB	1.004
Total Area = 2560879.			Total UG/ML = 25701.500		
Processed data file: P2211			Raw data file: R2211		

014007

005832

Report: 3242.00 Channel: 2

Sample: SD MD

Injected at 22:20:05 ON FEB 7, 1984

ESTD Method: PACK02

Seq: SEQ02

Subsq/Samp: 1/12

Rtl: 12

SI-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 20 Auto

Sup-Unk DvT TD-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 25.017 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area	UG/ML	Name
.30	0.00	.10000E+01	23509.	BB	8.066
.65	0.00	.10000E+01	1539.	BB	.528
1.42	0.00	.10000E+01	632.	BB	.217
1.72	0.00	.10000E+01	1035.	BB	.355
1.92	0.00	.10000E+01	11730.	BB	4.024
2.36	0.00	.10000E+01	11750.	BB	4.031
2.85	0.00	.10000E+01	79693.	BB	27.341
3.69	0.00	.10000E+01	550.	BB	.189
5.49	0.00	.10000E+01	1416.	BB	.486
6.65	0.00	.10000E+01	13063.	BB	4.482
8.09	0.00	.10000E+01	59212.	BB	20.317
9.81	0.00	.10000E+01	5615.	BB	1.926
11.80	0.00	.10000E+01	47606.	BB	16.333
21.38	0.00	.10000E+01	2586.	BB	.887
23.07	0.00	.10000E+01	31530.	BB	10.817

Total Area = 291475.

Total UG/ML = 31530.250

Processed data file: P2212

Raw data file: R2212

014008

0052

SEQUENCE RUN LOG - QC/QA

FEB 9, 1984

12:1 PM

PAGE 1

SEQUENCE NAME - SEQ22

CALIB. STD LOT 4360/4364

L U REF 27

CHANNEL # 2

DATE STARTED

INSTRUMENT # 06

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
SD 4360	01			17:30:28 ON FEB 7, 1984
SD 4364	02			17:56:47 ON FEB 7, 1984
SD ARMX	03			18:23:07 ON FEB 7, 1984
SD TOXA	04			18:49:27 ON FEB 7, 1984
SD 1221	05			19:15:47 ON FEB 7, 1984
SD 1232	06			19:42:06 ON FEB 7, 1984
SD 1242	07			20:08:27 ON FEB 7, 1984
SD 1248	08			20:34:47 ON FEB 7, 1984
SD 1254	09			21:01:07 ON FEB 7, 1984
SD TECH	10			21:27:27 ON FEB 7, 1984
SD SPKF	11			21:53:46 ON FEB 7, 1984
SD MD	12			22:20:05 ON FEB 7, 1984
✓ CP 19523	13	C#2397	F2763(EPAR)	22:46:24 ON FEB 7, 1984
✓ CP 19519	14			23:12:43 ON FEB 7, 1984
✓ CP 19518	15			23:39:03 ON FEB 7, 1984
✓ CP 19511	16	C#2369	C3887	0:05:22 ON FEB 8, 1984
CP 19532	17	C#2369	C4288	0:31:42 ON FEB 8, 1984
CP 19536	18	C#2369	C4290	0:58:01 ON FEB 8, 1984
✓ CP 19539	19	C#2396	F2748	1:24:20 ON FEB 8, 1984
✓ CP 19583	20			1:50:40 ON FEB 8, 1984
SD EPA4	21			2:16:59 ON FEB 8, 1984
SD MD	22			2:43:19 ON FEB 8, 1984
✓ CP 19425	23	C#2330	R1294	3:09:37 ON FEB 8, 1984
✓ CP 19584	24			3:35:56 ON FEB 8, 1984
✓ CP 19585	25			4:02:14 ON FEB 8, 1984
✓ CP 19524	26	C#2397	F2768(EPAR)	4:28:34 ON FEB 8, 1984
✓ CP 18882	27			4:54:52 ON FEB 8, 1984
✓ CP 19558	28	C#2333	R3517	5:21:11 ON FEB 8, 1984
✓ CP 19520	29	C#2397	F2761	5:47:30 ON FEB 8, 1984
✓ CP 19416	30	C#2330	R1284	6:13:49 ON FEB 8, 1984
SD MD	31			6:40:10 ON FEB 8, 1984
SD 4360	32			7:06:29 ON FEB 8, 1984
✓ CP 19537	33	C#2396	F2746	7:32:48 ON FEB 8, 1984
✓ CP 19666	34	C#2397	F2788(EPAR)	7:59:07 ON FEB 8, 1984

SEQUENCE RUN LOG - QC/QA

FEB 9, 1984 12: 1 PM

PAGE 2

SEQUENCE NAME - SEQ22

CALIB. STD LOT 4360/4364

L.U. REF 23

CHANNEL # 2

DATE STARTED

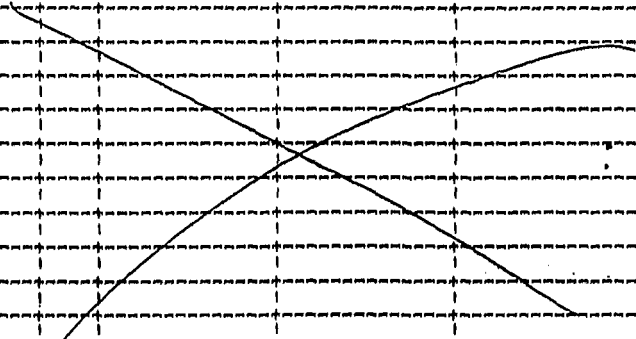
INSTRUMENT # 06

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	#	CASE NUMBER	EPA NUMBER	INJECTION TIME
✓ CP 19559	35	C#2333	R3518	8:25:27 ON FEB 8, 1984
✓ CP 19662	36	C#2397	F2784	8:51:46 ON FEB 8, 1984
✓ CP 19663	37	C#2397	F2785	9:18:06 ON FEB 8, 1984
✓ CP 19665	38	C#2397	F2787	9:44:26 ON FEB 8, 1984
✓ CP 19560	39	C#2333	R3519	10:10:44 ON FEB 8, 1984
✓ CP 19664	40	C#2397	F2786	10:37:04 ON FEB 8, 1984
SD MD	41			11:20:09 ON FEB 8, 1984
SD 4360	42			11:46:28 ON FEB 8, 1984
✓ CP 19679	43		<i>commercial</i>	12:12:47 ON FEB 8, 1984
✓ CP 19353	44	C#2349	C4609	12:39:07 ON FEB 8, 1984
✓ CP 19562	45	C#2333	R3521	13:05:26 ON FEB 8, 1984
✓ CP 19748	46		BLANK	14:43:55 ON FEB 8, 1984
✓ PP 20116	47			15:10:14 ON FEB 8, 1984
PP 20083	48			15:36:33 ON FEB 8, 1984
✓ PP 20084	49			16:02:52 ON FEB 8, 1984
✓ PP 20085	50			16:29:11 ON FEB 8, 1984
SD HR	51			16:55:30 ON FEB 8, 1984

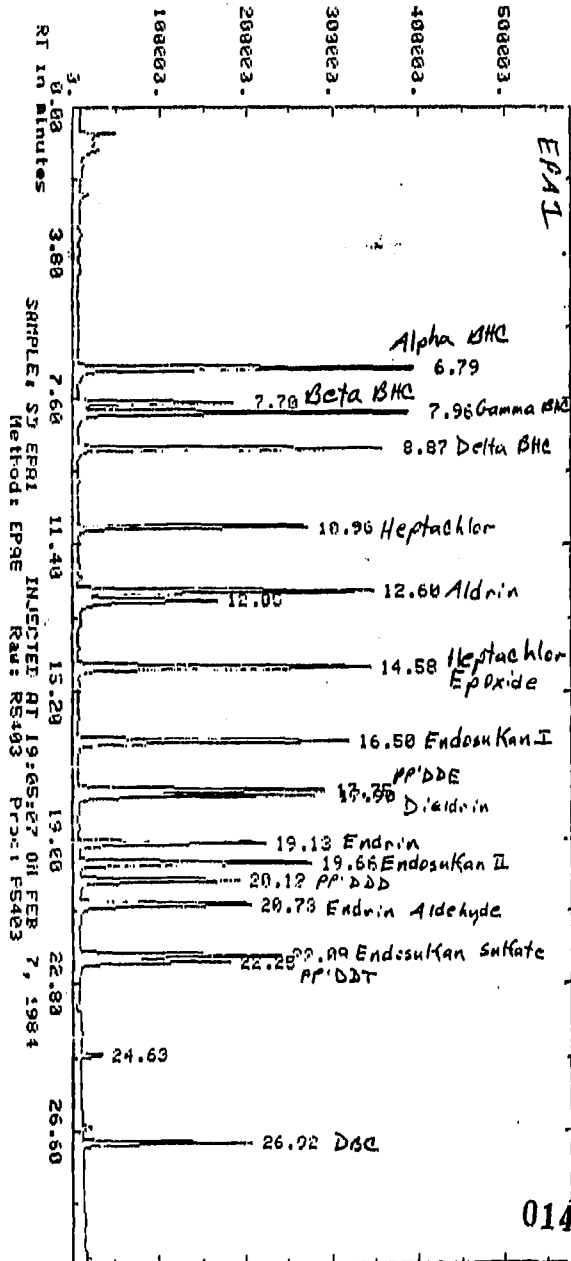
Mg 2/1/84



014010

29 005335

AMPLITUDE x.25 uv-seconds (enlarged x .75)



005846

Report: 6536.00 Channel: 5

Sample: SD EPA3

Injected at 19:05:07 ON FEB 7, 1984

ESTD Method: EPA5

Seq: 52954

Subseq/Samp: 1/3

Hit: 3

SL width MV/Min Delay Min Ar Runch
.250 3.000 5.00 32767

Sup-thk DVT ID-VI Ref:RTW %RTW %Dil-f ISO
ND 0.00 0 30 5.0 100.00 ND

Actual run time: 30.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AKLA %	Name
6.77	0.00	.10000E+01	2166174.	B92166174.000	
7.70	0.00	.10000E+01	10669046.	VV10669046.200	
7.96	0.00	.10000E+01	2158639.	HS2158639.500	
8.07	0.00	.10000E+01	1903689.	HS1903689.200	
10.96	0.00	.10000E+01	1503012.	BV1503012.000	
12.60	0.00	.10000E+01	2250074.	HS2250074.500	
12.85	0.00	.10000E+01	1114173.	TT1114173.200	
14.58	0.00	.10000E+01	2104411.	HS2104411.000	
16.50	0.00	.10000E+01	2006034.	B92006034.700	
17.75	0.00	.10000E+01	1701630.	BV1701630.700	
17.90	0.00	.10000E+01	1831867.	VM1831867.500	
19.13	0.00	.10000E+01	1289036.	BV1289036.000	
19.66	0.00	.10000E+01	1721966.	VV1721966.000	
20.12	0.00	.10000E+01	1163010.	VV1163009.700	
20.73	0.00	.10000E+01	1465425.	VM1465425.200	
22.09	0.00	.10000E+01	1476193.	BV1476190.700	
22.25	0.00	.10000E+01	1076070.	VM1076070.200	
24.63	0.00	.10000E+01	147141.	BB 147141.270	
26.92-26.92		.11076E+05	1113632.	BB 1.236	+DRC

Total Area = 29345204.

Total AKLA % = 1113632.200

Processed data file: P5403

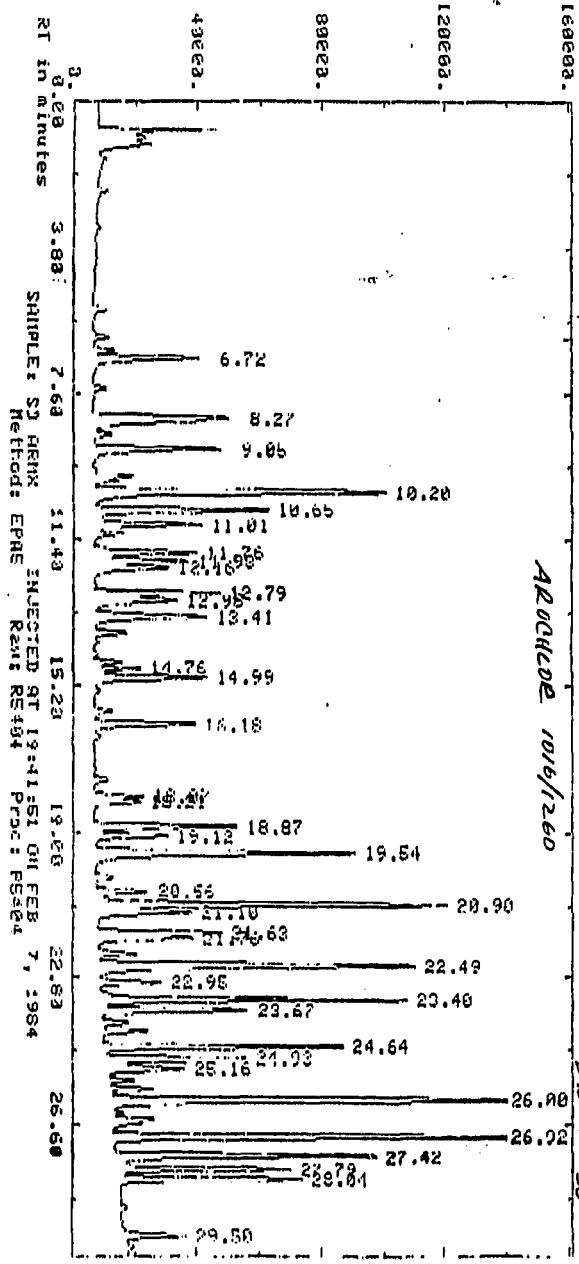
Raw data file: R5403

014012

29

005337

AMPLITUDE X.25 UV-seconds (Enlarged X 1.55)



014013

0053.8

Report: 6537.00 Channel: 5

Sample: 5D AKMX

Injected at 19:41:51 ON FEB 7, 1974

ESD Method: EPA's

Seq: 8EWS4

Subsq/Samp: 1/ 4

RT: 4

SL-Width MV/min Delay Min. An Bunch
.250 3.000 5.00 32767

Sup-Unk DvI ID-IVI Ref-RTW XRTW ZDII-T JSD
NO 0.00 0 1.30 5.0 100.00 NO

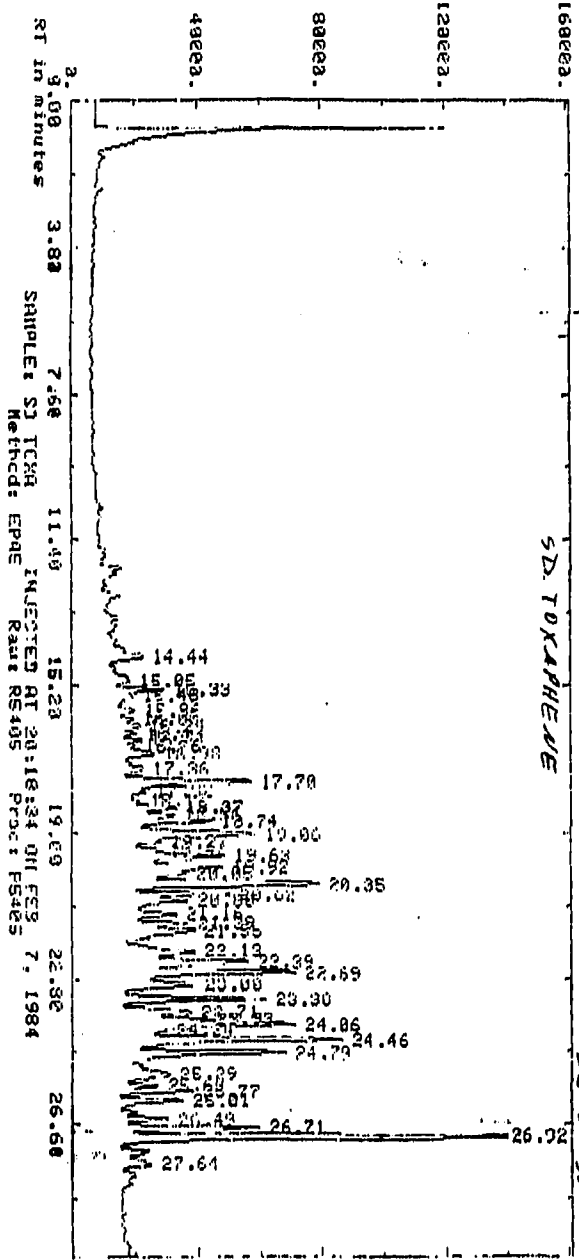
Actual run time: 30.013 minutes

RT	IM	Factor	Area	AREA %	Name
6.77	0.00	.10000E+01	252198.	VB	252198.190
8.27	0.00	.10000E+01	498277.	IV	498276.080
9.05	0.00	.10000E+01	294040.	VV	294047.620
10.20	0.00	.10000E+01	931707.	VV	931709.500
10.65	0.00	.10000E+01	391802.	VV	391802.060
11.01	0.00	.10000E+01	247571.	VV	247570.660
11.76	0.00	.10000E+01	236929.	VV	236928.590
11.98	0.00	.10000E+01	210336.	VV	210336.370
12.16	0.00	.10000E+01	213305.	VV	213304.810
12.77	0.00	.10000E+01	200441.	VV	200440.560
12.98	0.00	.10000E+01	270710.	VV	270709.810
13.41	0.00	.10000E+01	322304.	VV	322303.940
14.76	0.00	.10000E+01	104104.	VV	104103.810
14.97	0.00	.10000E+01	275722.	VV	275721.010
16.10	0.00	.10000E+01	230669.	VV	230669.190
16.87	0.00	.10000E+01	107629.	VV	107629.200
18.21	0.00	.10000E+01	103574.	VB	103573.660
18.87	0.00	.10000E+01	313733.	IV	313732.070
19.12	0.00	.10000E+01	173508.	VV	173507.690
19.54	0.00	.10000E+01	644571.	VV	644571.500
20.56	0.00	.10000E+01	115203.	VV	115203.440
20.90	0.00	.10000E+01	006190.	VV	006197.620
21.10	0.00	.10000E+01	270064.	VB	270063.940
21.63	0.00	.10000E+01	258023.	IV	258023.160
21.76	0.00	.10000E+01	209149.	VV	209149.000
22.47	0.00	.10000E+01	029513.	VV	029513.000
22.95	0.00	.10000E+01	120700.	VV	120707.620
23.40	0.00	.10000E+01	652833.	VV	652833.370
23.67	0.00	.10000E+01	305570.	VV	305577.750
24.64	0.00	.10000E+01	401220.	VV	401227.560
24.93	0.00	.10000E+01	201007.	VV	201007.190
25.16	0.00	.10000E+01	216796.	VV	216795.920
26.00	0.00	.10000E+01	1232590.	VV	1232598.000
26.97	26.92	.11076E+01	1000030.	VV	1.119 #DRC
27.42	0.00	.10000E+01	532146.	VV	532146.370
27.77	0.00	.10000E+01	318631.	VV	318631.310
28.04	0.00	.10000E+01	364549.	VB	364548.620
29.50	0.00	.10000E+01	125076.	IV	125075.750

014014

005349

AMPLITUDE x.25 uv-seconds (Enlarged x 1.37)



SD-TOLXAPHENYLE

DG-5 30m

SAMPLE: SJ TCKA INJECTED AT 20:18:34 ON FEB 7, 1984
Method: EPA8 Ramp RS405 Proc: F8285

014015

005840

Report: 6530.11 Channel: 5

Sample: SD 10XA Injected at 20:18:34 (N IFR 7, 1984

ESD Method: MS10XA Seq: SEQ54 SubsQ/Scan: 1/ 5 Rtl: 5

SI-width MV/Min Delay Min-Ar Bunch
.250 3.000 5.00 32767

Sup-Unk DVI ID-Lvl Ref-RTM XRTW XDI:f Iso
NU 0.00 0 .30 5.0 100.00 NU

Actual run time: 30.004 minutes

Ended not on baseline
Summed designated peaks

RT	ITM	Factor	Area	RATIO	Name
14.44	14.47	.65279E-05	153141.	HH 1.000	11OXAPHE-A
15.05	0.00	.10000E+00	166536.	HH 166536.940	
15.33	15.37	.60216E-05	166060.	HH 1.000	11OXAPHE-B
15.40	0.00	.10000E+00	143007.	HH 143006.530	
15.05	0.00	.10000E+00	118126.	HH 118126.410	
16.00	0.00	.10000E+00	89500.	HH 89507.937	
16.24	0.00	.10000E+00	125720.	HH 125720.420	
16.43	0.00	.10000E+00	90600.	HH 90599.875	
16.61	0.00	.10000E+00	106061.	HH 106061.480	
16.76	0.00	.10000E+00	77200.	HH 77200.453	
16.98	17.03	.41300E-05	241661.	HV 1.000	11OXAPHE-C
17.36	17.41	.57459E-05	174030.	VV 1.000	11OXAPHE-D
17.70	17.75	.18855E-05	530355.	VV 1.000	11OXAPHE-E
17.92	0.00	.10000E+00	137350.	VV 137350.500	
18.17	0.00	.10000E+00	70740.	VV 70740.107	
18.37	0.00	.10000E+00	257996.	VV 257996.720	
18.55	0.00	.10000E+00	203204.	VV 203203.710	
18.74	18.79	.36013E-05	302915.	VV 1.000	11OXAPHE-F
19.04	19.12	.16111E-05	620695.	VV 1.000	11OXAPHE-G
19.27	0.00	.10000E+00	120263.	VV 120262.610	
19.47	0.00	.10000E+00	125456.	VV 125455.890	
19.63	19.67	.25005E-05	367515.	VV 1.000	11OXAPHE-H
19.72	0.00	.10000E+00	376303.	VV 376302.620	
20.05	20.00	.47203E-05	211493.	VV 1.000	11OXAPHE-I
20.35	20.40	.12400E-05	001307.	VV 1.000	11OXAPHE-J
20.62	20.67	.32002E-05	304119.	VV 1.000	11OXAPHE-K
20.80	0.00	.10000E+00	271366.	VV 271366.310	
21.16	21.20	.42256E-05	236655.	VV 1.000	11OXAPHE-L
21.37	21.43	.40447E-05	206402.	VV 1.000	11OXAPHE-M
21.55	21.60	.32566E-05	307067.	VV 1.000	11OXAPHE-N
22.13	22.17	.23679E-05	422314.	VV 1.000	11OXAPHE-O
22.39	22.43	.21397E-05	467335.	VV 1.000	11OXAPHE-P
22.69	22.72	.10527E-05	537737.	VV 1.000	11OXAPHE-Q
23.00	23.03	.29400E-05	339214.	VV 1.000	11OXAPHE-R
23.30	23.42	.24474E-05	400264.	VV 1.000	11OXAPHE-S
23.71	23.75	.33068E-05	302410.	VV 1.000	11OXAPHE-T

014016

23.93	0.00	.10000E+01	177439.	VV	177439.220	
24.06	24.09	.19104E+05	581263.	VV	1.000	FIUXAPIH-U
24.24	0.00	.10000E+01	102039.	VV	102039.400	
24.46	24.40	.14940E+05	669366.	VV	1.000	FIUXAPIH-V
24.77	24.02	.22686E+05	440002.	VV	1.000	FIUXAPIH-W
25.29	25.31	.35720E+05	279954.	VV	1.000	FIUXAPIH-X
25.60	0.00	.10000E+01	90996.	VV	90995.812	
25.77	0.00	.10000E+01	152717.	VV	152716.660	
26.01	0.00	.10000E+01	145729.	VV	145729.090	
26.49	0.00	.10000E+01	106387.	VV	106387.370	
26.71	0.00	.10000E+01	275056.	VV	275056.060	
26.92-26.92		.44281E+07	1129159.	VV	0.050	4000
27.64	0.00	.10000E+01	79379.	VV	79370.781	

Total Area = 13016902.

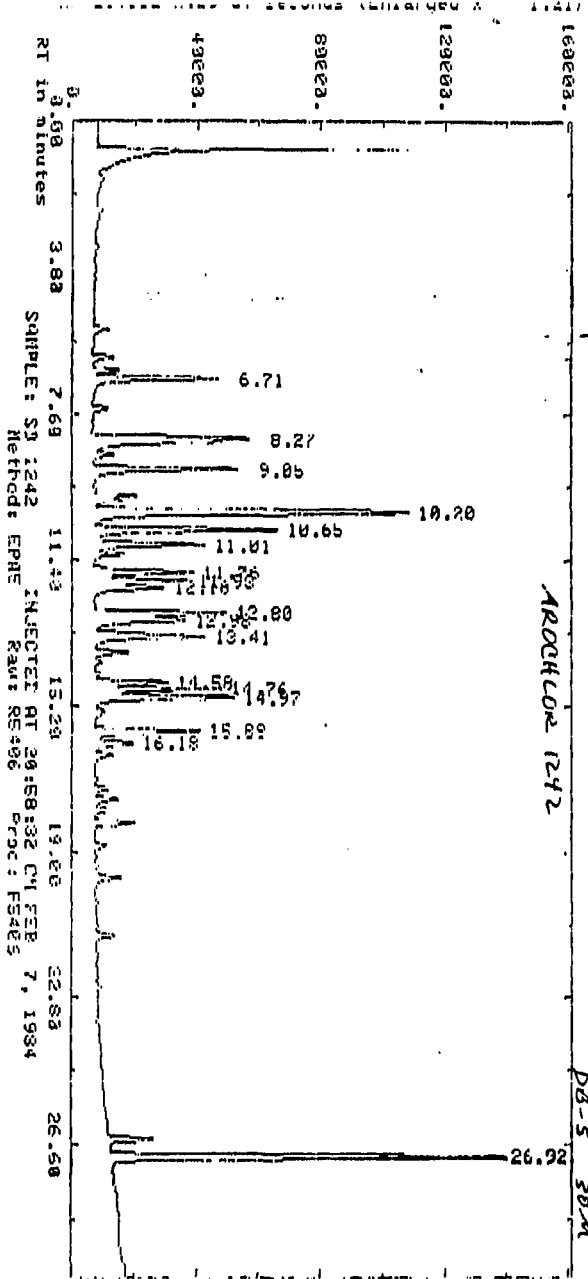
Total RA110 = 79370.781

Processed data file: P5405

Raw data file: R5405

014017

005842



DB-5 30-41

014018

003848

Report: 6539.00 Channel: 5

Sample: SD 1242 Injected at 20:50:32 ON FEB 7, 1984

ESTD Method: EPAS Seq: SEQ54 Subseq/Samp: 1/ 6 Rtl: 6

SI-width MV/Min Delay Min-Ar Hunch
.250 3.000 5.00 32767

Sup-Link Det ID-Lvl Ref-KTW XKTW XDist Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
6.71	0.00	.10000E+01	292863.	VB	292862.870
8.27	0.00	.10000E+01	565134.	UV	565134.000
9.05	0.00	.10000E+01	327246.	UV	327246.250
10.20	0.00	.10000E+01	909233.	UV	909232.620
10.65	0.00	.10000E+01	378330.	UV	378329.560
11.01	0.00	.10000E+01	251003.	UV	251003.000
11.76	0.00	.10000E+01	230134.	UV	230134.160
11.98	0.00	.10000E+01	209040.	UV	209040.060
12.16	0.00	.10000E+01	195452.	UV	195451.010
12.50	0.00	.10000E+01	338607.	UV	338606.070
12.70	0.00	.10000E+01	235664.	UV	235664.060
13.41	0.00	.10000E+01	312634.	UV	312633.750
14.50	0.00	.10000E+01	142190.	UV	142197.010
14.76	0.00	.10000E+01	206976.	UV	206976.210
14.97	0.00	.10000E+01	338371.	UV	338370.750
15.00	0.00	.10000E+01	250174.	UV	250174.370
16.10	0.00	.10000E+01	101117.	UV	101117.500
26.92-26.92		.11096E+05	931590.	UV	1.034 #DRC

Total Area = 6406134.

Total AREA % = 931589.620

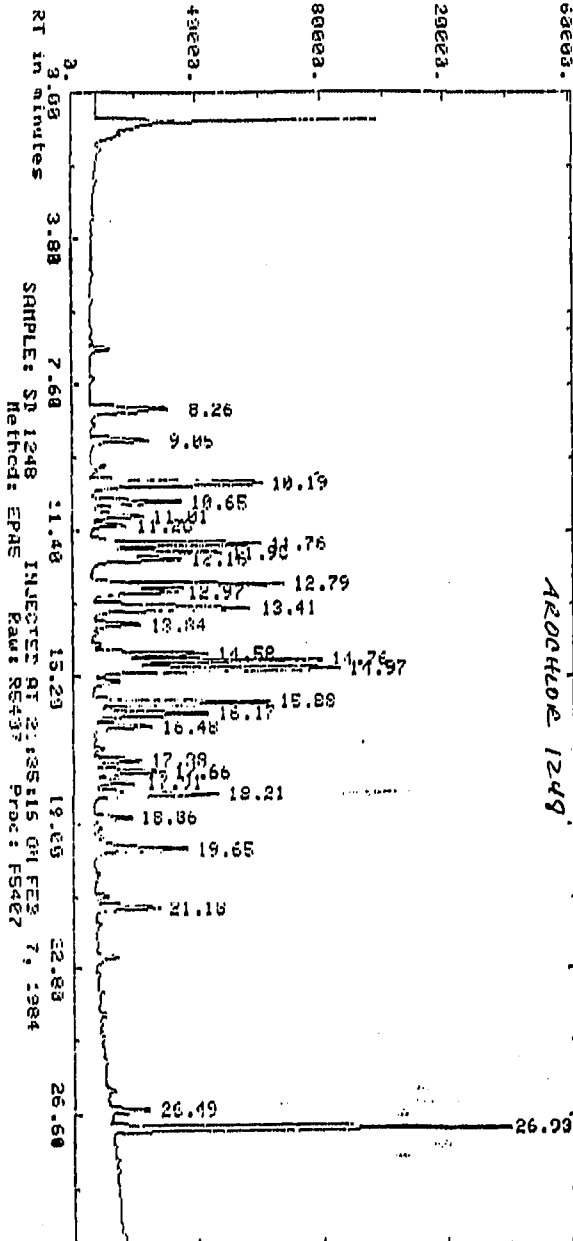
Processed data file: P5406

Raw data file: R5406

014019

005344

AMPLITUDE x.25 uv-seconds (Enlarged x 1.91)



SAMPLE: SD 1248
 Method: EPAS
 INJECTED: 01.23
 RAW: RST03
 FILE: 01 FEB 7, 1984
 PRG: F5407

014020

005345

Report: 6540.11 Channel: 5

Sample: SD 124B

Injected at 21:35:16 ON FEB 7, 1968

ESFD Method: MS124B

Seq: SEQ94

Subseq/Comp: 1/7

Bit: 7

SI Width	MV/Min	Delay	Min Ar	Bunch
.250	3.000	5.00	32767	

Sup Unk	DvT	LD-Lvl	Ret-RTM	ZKRW	ZD11-f	Is0
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 30.000 minutes

Ended not on baseline
Summed designated peaks

RT	ITM	Factor	Area	RA110	Name
8.26	0.31	.16812E+05	237717. BV	.400	PCB124B-A
9.05	0.00	.10000E+03	127217. BV	127218.010	
10.17	10.25	.70857E+05	564514. UV	.400	PCB124B-B
10.65	10.71	.19455E+05	205604. UV	.400	PCB124B-C
11.01	11.06	.30712E+05	130242. UV	.400	PCB124B-D
11.26	0.00	.10000E+01	78262. UV	78261.531	
11.76	11.01	.10065E+05	372402. UV	.400	PCB124B-E
11.98	12.03	.13040E+05	209007. UV	.400	PCB124B-F
12.16	12.21	.16192E+05	247776. UV	.400	PCB124B-G
12.77	12.84	.95046E+06	417337. BV	.400	PCB124B-H
12.77	13.03	.19014E+05	210374. UV	.400	PCB124B-I
13.41	13.47	.89577E+06	446545. UV	.400	PCB124B-J
13.84	0.00	.10000E+01	103348. UV	103347.530	
14.58	14.63	.16851E+05	237301. UV	.400	PCB124B-K
14.76	14.81	.76774E+05	512517. UV	.400	PCB124B-L
14.97	15.03	.65250E+06	612952. UV	.400	PCB124B-M
15.00	15.73	.75615E+06	418345. BV	.400	PCB124B-N
16.17	16.23	.13813E+05	302764. UV	.400	PCB124B-O
16.48	16.53	.30079E+05	132784. UV	.400	PCB124B-P
17.38	0.00	.10000E+01	111035. UV	111034.890	
17.66	17.71	.24104E+05	165401. UV	.400	PCB124B-Q
17.71	0.00	.10000E+01	95272. UV	95271.028	
18.21	18.26	.13776E+05	270363. UV	.400	PCB124B-R
18.86	0.00	.10000E+01	79057. BV	79057.062	
19.65	19.70	.16138E+05	247863. UV	.400	PCB124B-S
21.18	21.23	.24612E+05	162521. UV	.400	PCB124B-T
26.47	0.00	.10000E+01	75251. BV	75250.750	
26.93-26.93		.48751E+07	1025630. UV	.050	+DNC

Total Area = 7731075.

Total RA110 = 1025630.000

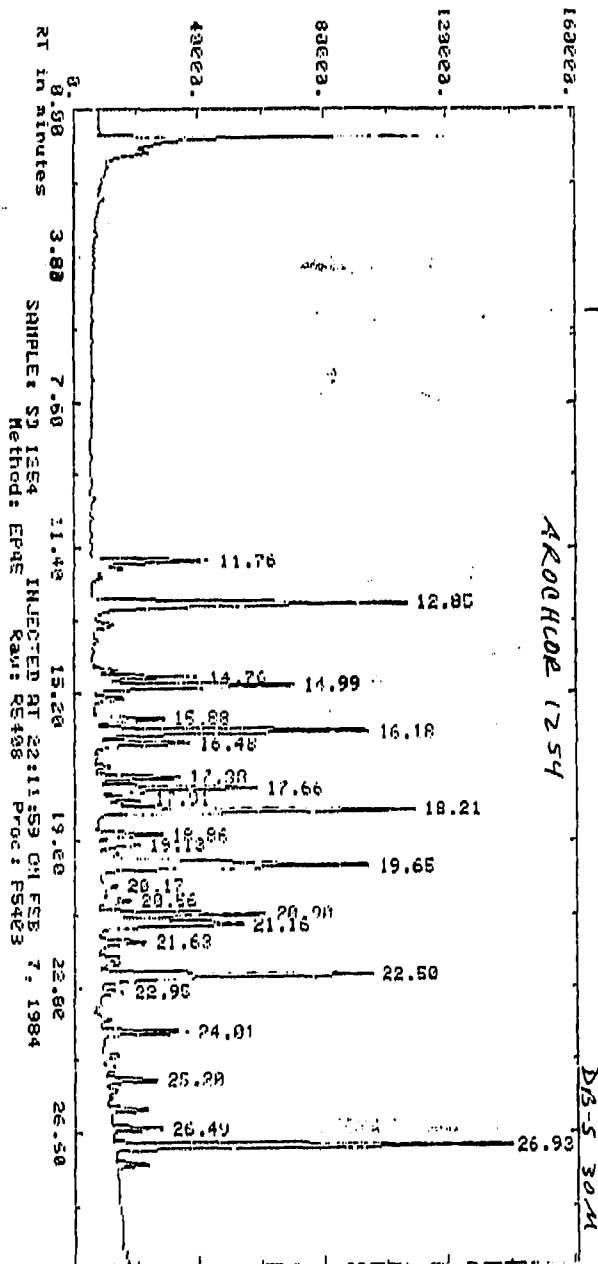
Processed data file: P5407

Raw data file: R5407

014021

005346

AMPLITUDE x.25 uV-seconds (Enlarged x 1.24)



014022

003347

Report: 6541.11 Channel: 5

Sample: SD 1254

Injected at 22:11:59 ON FLD 7, 1984

ESD Method: MS1254

Seq: SEQ54

Subsj/Samp: 1/ 0

Bit: B

SD Width MV/Min Delay Min-Ar Bunch
.250 3.000 5.00 32767

Sup-Unk Dv1 1D-1v1 Ref-N1W XRTW XDF1-f Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.004 minutes

Ended not on baseline
Summed designated peaks

RT	DTM	Factor	Area	RATIO	Name
11.76	11.85	.11446E+05	262111. BV	.300	PCB1254-A
12.05	12.07	.32965E+06	909507. BV	.300	PCB1254-B
14.76	14.83	.12835E+05	263731. VV	.300	PCB1254-C
14.99	15.06	.63009E+06	475519. VV	.300	PCB1254-D
15.00	15.95	.19275E+05	155539. BV	.300	PCB1254-E
16.10	16.24	.44149E+06	699547. VV	.300	PCB1254-F
16.40	16.55	.13624E+05	220203. VV	.300	PCB1254-G
17.30	17.44	.15886E+05	188840. VV	.300	PCB1254-H
17.66	17.72	.82901E+06	361875. VV	.300	PCB1254-I
17.93	0.00	.10000E+01	103024. VV	103023.620	
18.21	18.27	.39076E+06	767727. VV	.300	PCB1254-J
18.66	18.92	.20007E+05	143620. BV	.300	PCB1254-K
19.13	0.00	.10000E+01	103405. VV	103404.700	
19.65	19.71	.33572E+06	893593. VV	.300	PCB1254-L
20.17	0.00	.10000E+01	84745. VV	84745.000	
20.56	0.00	.10000E+01	86942. VV	86942.234	
20.90	20.95	.77735E+06	385727. VV	.300	PCB1254-M
21.16	21.22	.59899E+06	500901. VV	.300	PCB1254-N
21.63	0.00	.10000E+01	145569. VV	145569.220	
22.50	22.54	.30952E+06	770171. VV	.300	PCB1254-O
22.95	0.00	.10000E+01	88077. VV	88076.812	
24.01	24.05	.15455E+05	194117. VV	.300	PCB1254-P
25.20	25.26	.28107E+05	106737. VV	.300	PCB1254-Q
26.49	0.00	.10000E+01	93195. VV	93194.600	
26.93	26.93	.51584E+07	969291. BV	.050	#DUC

Total Area = 0923999.

Total RATIO = 969291.250

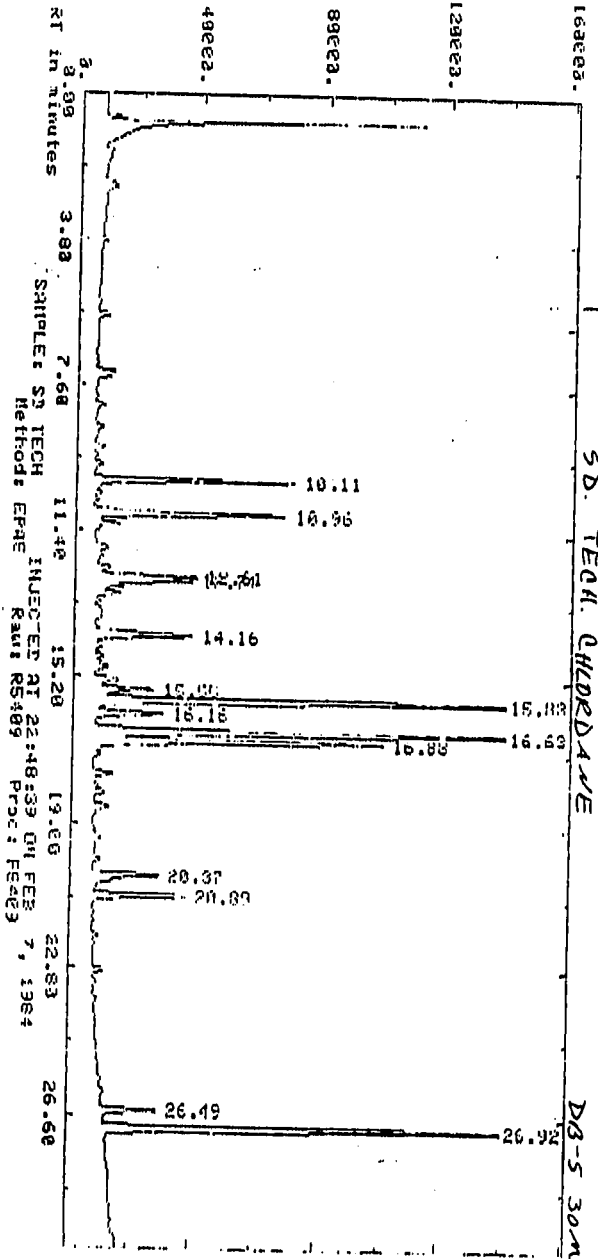
Processed data file: P5400

Raw data file: R5400

014023

005348

AMPLITUDE x.25 uv-seconds (Enlarged x 1.34)



SAMPLE: SD TECH INJECTED AT 22:48:39 ON FEB 7, 1984
Method: EPA8 Raw: RS489 Proc: FS423

014024

005819

Report: 6542.00 Channel: 5

Sample: SD TECH

Injected at 22:40:39 ON FEB 7, 1984

ESTD Method: EPAS

Seq: SEQ04

Subseq/Samp: 1/2

Hit: 9

SI-width MV/Min Delay Min-Ar Bunch
250 3.000 5.00 32767

Sup-Unk S-DUT ID-Inv Ref-KTW XKTW XDist-f 160
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.013 minutes

Ended not on baseline

RT	ITM	Factor	Area	AKIA %	Name
10.11	0.00	.10000E+01	392424.	BV	392424.440
10.96	0.00	.10000E+01	402169.	VV	402169.440
12.61	0.00	.10000E+01	192541.	VV	192540.690
12.71	0.00	.10000E+01	197313.	VV	197313.310
14.16	0.00	.10000E+01	285517.	VV	285518.810
15.55	0.00	.10000E+01	161610.	VV	161610.000
15.83	0.00	.10000E+01	1005534.	VV	1005534.400
16.16	0.00	.10000E+01	169753.	VV	169752.810
16.63	0.00	.10000E+01	974198.	VV	974197.620
16.88	0.00	.10000E+01	654277.	VV	654277.120
20.37	0.00	.10000E+01	154478.	BV	154477.590
20.89	0.00	.10000E+01	197583.	VV	197582.970
26.42	0.00	.10000E+01	105725.	UN	105724.620
26.92-26.92		.11096E+05	1040270.	UN	1.154 1000

Total Area = 5933353

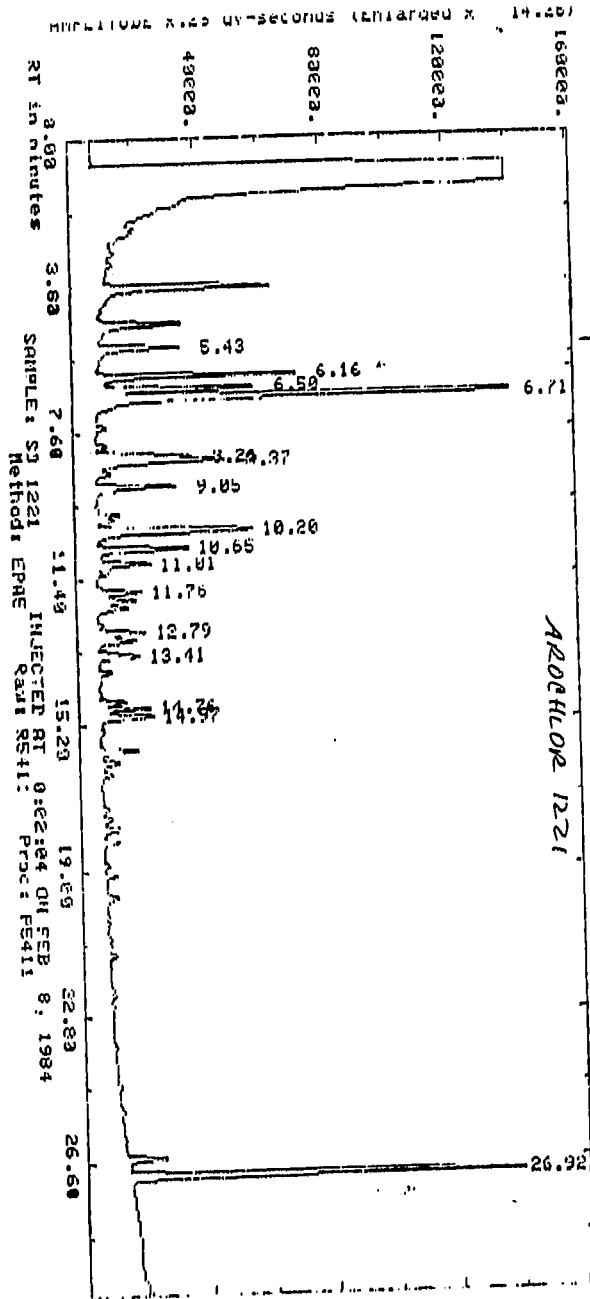
Total AKIA % = 1040269.900

Processed data file: 65409

Raw data file: 65409

014025

005350



014026

005351

Report: 6544.00 Channel: 5

Sample: SD 1220

Injected at 0:02:04 ON 11R U, 1984

ESTD Method: EPAS

Seq: 00054

Subsq/bamp: 1/11

RI: 11

SI width MV/min Delay Min Ar Bunch
.250 3.000 5.00 32767

Sup-Link Dv1 ID-Lvl Ref-R/W X/W ZD1-T Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.017 minutes

Loaded not on baseline

RT	ITH	Factor	Area	AKLA %	Name
5.43	0.00	.10000E+01	174157.	RV	174157.120
6.16	0.00	.10000E+01	459456.	VV	459456.440
6.50	0.00	.10000E+01	325554.	VV	325554.070
6.71	0.00	.10000E+01	1220132.	VV	1220132.200
8.26	0.00	.10000E+01	234400.	VV	234400.720
8.37	0.00	.10000E+01	337671.	VV	337671.060
9.05	0.00	.10000E+01	173860.	VV	173860.440
10.20	0.00	.10000E+01	482399.	VV	482399.070
10.65	0.00	.10000E+01	200660.	VV	200660.000
11.01	0.00	.10000E+01	122736.	VV	122736.750
11.76	0.00	.10000E+01	107836.	VV	107836.340
12.79	0.00	.10000E+01	107634.	VV	107634.750
13.41	0.00	.10000E+01	106265.	VV	106265.370
14.76	0.00	.10000E+01	110703.	VV	110703.450
14.97	0.00	.10000E+01	127136.	VV	127136.740
26.99-26.92		.11096E+05	1045443.	VH	1.160 +DHC

Total Area = 5356142.

Total AREA % = 1045442.700

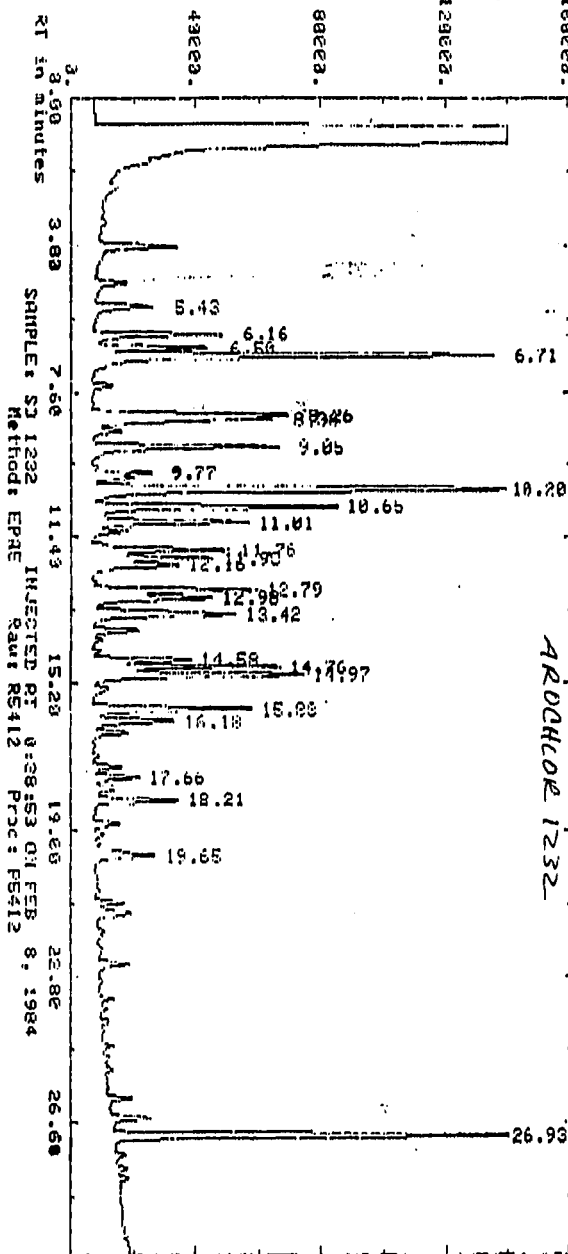
Processed data file: P5411

Raw data file: R5411

014027

005350

AMPLITUDE x.25 uv-seconds (Enlarged x 5.62)



014028

005353

Report: 6545.00 Channel: 5

Sample: SD 1232

Injected at 0:30:53 ON FRI 0, 1984

ESD Method: EPAS

Seq: SEQ54

Subsq/Samp: 1/12

Btl: 12

SI-width MV/min Delay Min-Ar Runch
250 3.000 5.00 32757

Sup-Unk DvI ID-1.0 Ref-NW XNW XDI1.0 15.0
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 30.004 minutes

Ended not on baseline

RT	ITh	Factor	Area	AREA %	Name
5.43	0.00	.10000E+01	141765.	BB	141764.750
6.16	0.00	.10000E+01	300064.	BV	300064.370
6.50	0.00	.10000E+01	242229.	VV	242229.170
6.71	0.00	.10000E+01	1001203.	VV	1001202.700
8.26	0.00	.10000E+01	417751.	VV	417751.060
8.36	0.00	.10000E+01	451674.	VV	451674.250
9.05	0.00	.10000E+01	435267.	VV	435267.000
9.77	0.00	.10000E+01	116234.	VV	116234.450
10.20	0.00	.10000E+01	1308359.	VV	1308359.000
10.65	0.00	.10000E+01	553044.	VV	553044.500
11.01	0.00	.10000E+01	350307.	VV	350308.740
11.76	0.00	.10000E+01	316249.	VV	316249.620
11.90	0.00	.10000E+01	267700.	VV	267700.000
12.16	0.00	.10000E+01	241989.	VV	241989.030
12.72	0.00	.10000E+01	359404.	VV	359404.310
12.98	0.00	.10000E+01	313015.	VV	313015.440
13.41	0.00	.10000E+01	408210.	VV	408210.170
14.58	0.00	.10000E+01	199544.	VV	199543.560
14.76	0.00	.10000E+01	420471.	VV	420470.870
14.97	0.00	.10000E+01	510153.	VV	510152.560
15.00	0.00	.10000E+01	300404.	BV	300403.560
16.10	0.00	.10000E+01	210900.	VV	210900.870
17.66	0.00	.10000E+01	105117.	VV	105117.140
18.21	0.00	.10000E+01	204947.	VB	204946.620
19.65	0.00	.10000E+01	184063.	VB	184063.310
26.93-26.92		.11096E+01	1045857.	VU	1.161 4000

Total Area = 10498370.

Total AREA % = 1045857.100

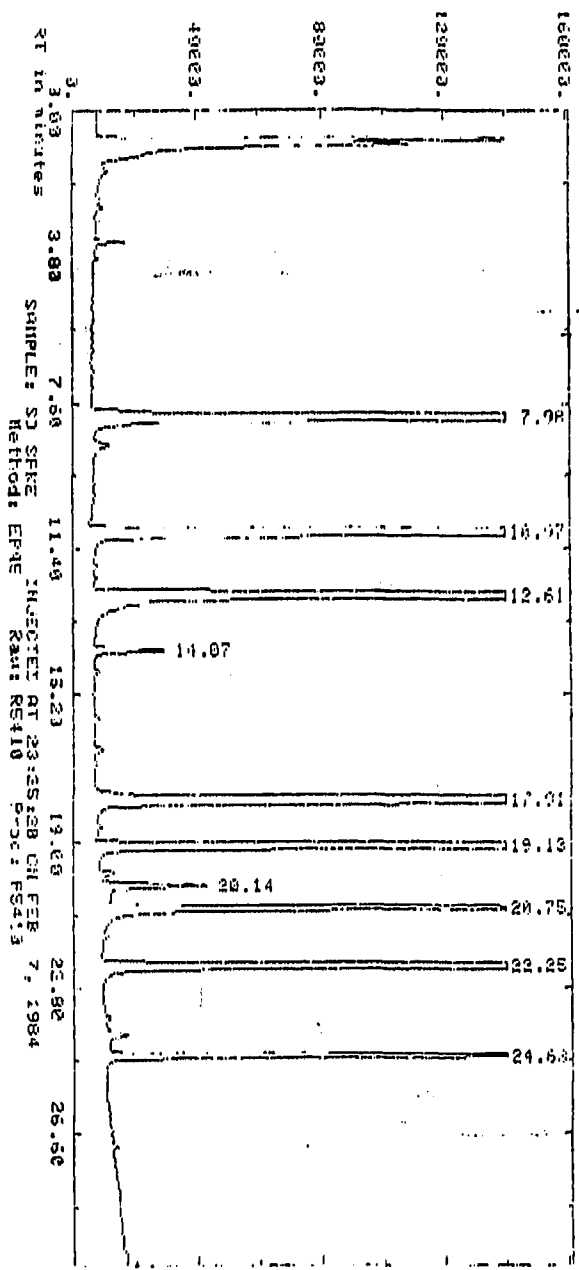
Processed data file: P5412

Raw data file: R5412

014029

005254

AMPLITUDE x .25 uV-seconds (Enlarged x = 19.89)



014030

005355

Report: 6546.00 Channel: 5

Sample: 10 BK1

Injected at 23:23:20 ON 11/07/1988

ESD Method: EPAS

Seq: SLQ54

Unitsq/samp: 1/10

Bit: 10

SI-width

MV/Min

Delay

Min-Ar

Bunch

.250

3.000

5.00

32767

Sup-Link

Dv1

ID-Lv1

Ref-K1W

%R1W

%D1-1

150

NO

0.00

0

.30

5.0

100.00

NO

Actual run time: 30.004 minutes

Ended not on baseline

No reference peak found

RT	ITM	Factor	Area	AREA %	Name
7.93	0.00	.10000E+01	15023766. BS	19.813	
10.97	0.00	.10000E+01	13841494. BS	17.115	
12.61	0.00	.10000E+01	15463900. BS	19.120	
14.07	0.00	.10000E+01	154425. BS	.191	
17.91	0.00	.10000E+01	15940140. BS	17.257	
19.13	0.00	.10000E+01	9616492. BS	11.891	
20.14	0.00	.10000E+01	320657. VV	.396	
20.75	0.00	.10000E+01	1379290. VV	1.701	
22.25	0.00	.10000E+01	8873659. BS	10.972	
24.63	0.00	.10000E+01	1260634. VV	1.559	

Total Area = 80073872.

Total AREA % = 1260635.900

Processed data file: P5410

Raw data file: R5410

014031

005356

Report: 6546.00 Channel: 5

Sample: SD MD

Injected at 11:15:42 (M 11) 0, 1984

ESTD Method: EPA5

Seq: SLO54

Subsq/Samp: 1/15

Rt: 13

SI-width MV/Min Delay Min: Ar Bunch
.250 3.000 5.00 32767

Sup-Unk DvT ID-Lvl Ref: RTW ZRTW ZD11-T Iso
NO 0.00 0 1.30 5.0 100.00 NO

Actual run time: 30.000 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area	AKLA %	Name
12.60	0.00	.10000E+01	2073135.00	44.043	
19.13	0.00	.10000E+01	862696.00	18.328	
20.75	0.00	.10000E+01	248533.00	5.200	
22.25	0.00	.10000E+01	696470.00	14.796	
24.63	0.00	.10000E+01	199145.00	4.231	
25.35	0.00	.10000E+01	627096.00	13.322	
Total Area =			4707077.	Total AKLA % =	677096.000

Processed data file: K5413

Raw data file: K5413

014032
005357

2333

SEQUENCE RUN LOG - QC/QA

FEB 8, 1984

2:24 PM

PAGE 1

SEQUENCE NAME - SEQ54

CALIB. STD LOT EPA1

L. U. REF 11

CHANNEL # 5

DATE STARTED _____

INSTRUMENT # 03

DATE FINISHED _____

TYPE(S) OF ANALYSIS PFST

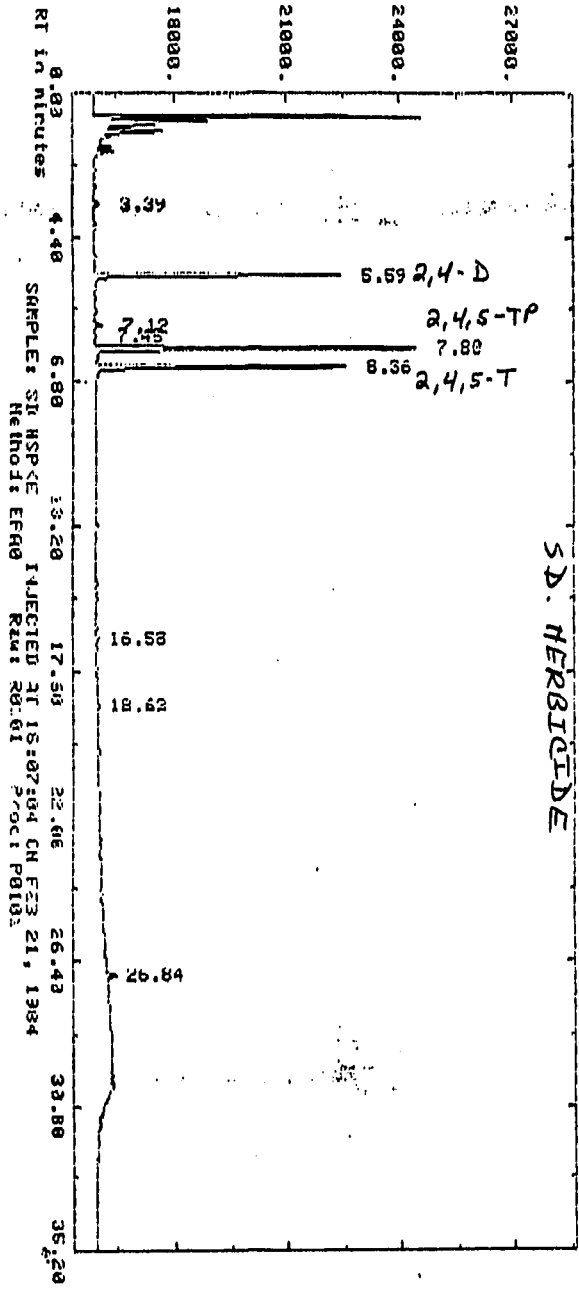
SAMPLE NAME	#	CASE NUMBER	EPA NUMBER	INJECTION TIME
SD HR	01			17:51:42 ON FEB 7, 1984
SD MFL2	02			18:28:24 ON FEB 7, 1984
SD EPA1	03			19:05:07 ON FEB 7, 1984
SD ARMX	04			19:41:51 ON FEB 7, 1984
SD TOXA	05			20:18:34 ON FEB 7, 1984
SD 1242	06			20:58:32 ON FEB 7, 1984
SD 1248	07			21:35:16 ON FEB 7, 1984
SD 1254	08			22:11:59 ON FEB 7, 1984
SD TECH	09			22:48:39 ON FEB 7, 1984
SD SPKE	10			23:25:20 ON FEB 7, 1984
SD 1221	11			0:02:04 ON FEB 8, 1984
SD 1232	12			0:38:53 ON FEB 8, 1984
SD MD	13			1:15:42 ON FEB 8, 1984
✓ CP 19909	14	C#2364	C4876	1:52:28 ON FEB 8, 1984
✓ CP 19915	15	C#2364	C7902	2:29:17 ON FEB 8, 1984
✓ CP 19911	16	C#2364	C4878	3:07:12 ON FEB 8, 1984
✓ CP 19912	17	C#2364	C4880	3:43:54 ON FEB 8, 1984
CP 1941SHG	18	C#2330	R1283	4:20:38 ON FEB 8, 1984
✓ CP 19561HG	19	C#2334	R3520	4:57:21 ON FEB 8, 1984
✓ CP 19660	20	C#2397	F2782	5:34:07 ON FEB 8, 1984
✓ CP 19661HG	21	C#2397	F2783	6:10:54 ON FEB 8, 1984
SD EPA4	22			6:47:36 ON FEB 8, 1984
SD MD	23			7:24:16 ON FEB 8, 1984
✓ CP 19538HG	24	C#2396	F2747	8:00:59 ON FEB 8, 1984
✓ CP 19515HG	25	C#2397	F2760	8:37:43 ON FEB 8, 1984
CP 19512	26	C#2397	F2759	9:14:49 ON FEB 8, 1984
CP 19644	27	C#2397	F2772	9:51:31 ON FEB 8, 1984
✓ CP 19646	28	C#2397	F2774	10:28:14 ON FEB 8, 1984
SD HB	29			11:04:56 ON FEB 8, 1984

Handwritten signature and date: 2/28/84

014033

003318

AMPLITUDE x.25 uV-seconds (Enlarged x .75)



014034

00.30 9

Report: 1997.00 Channel: 0

Sample: SD HSPKE

Injected at 18:07:04 ON FFH 21, 1984

STD Method: EPA0

Seq: SEQ01

Subsq/Samp: 1/1

Rt: 1

SI-width MV/Min Delay Min-Ar Bunch
.250 .300 3.00 100

Sup-link DvT ID-Lvl Ref-RTW %RTW %Dil-f Tso
NO 0.00 0 30 5.0 100.00 NO

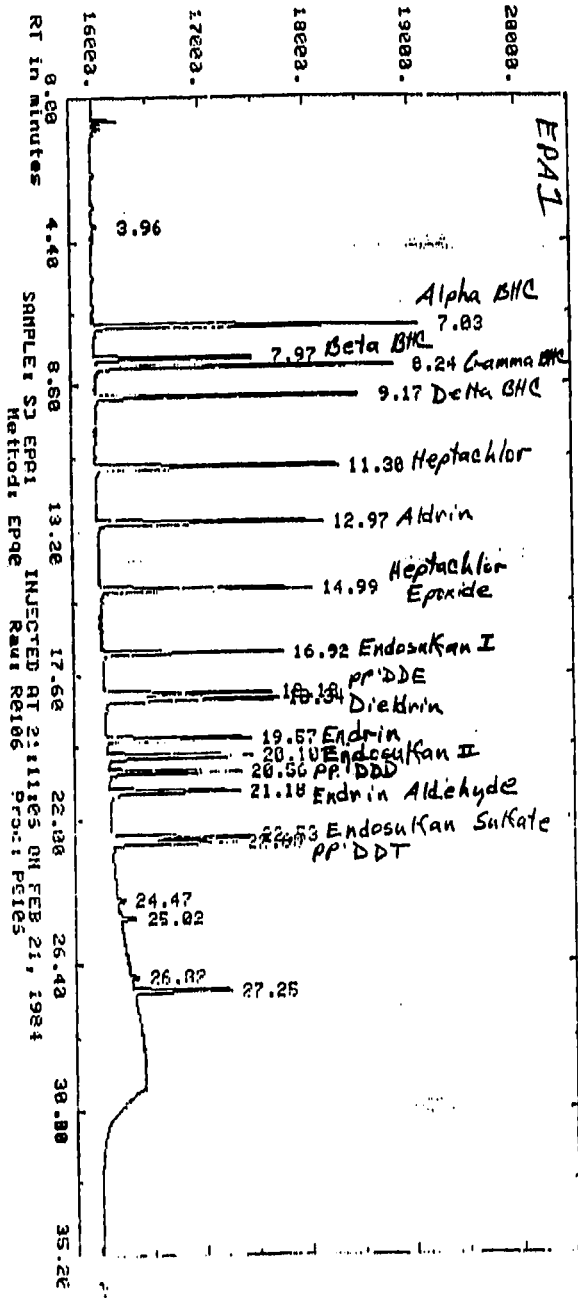
Actual run time: 35.217 minutes

No reference peak found

RT	ITM	Factor	Area	UG/MI	NAME
3.39	0.00	.10000E+01	623. BB	588	
5.59	0.00	.10000E+01	29568. BB	27.928	
7.12	0.00	.10000E+01	816. BB	582	
7.45	0.00	.10000E+01	172. BB	163	
7.80	0.00	.10000E+01	40862. BB	38.596	
8.36	0.00	.10000E+01	31916. BB	30.145	
16.58	0.00	.10000E+01	409. BB	386	
18.63	0.00	.10000E+01	358. BB	338	
26.84	0.00	.10000E+01	1348. BB	1.274	
Total Area = 105872.			Total UG/MI = 1348.375		
Processed data file: P0101			Raw data file: R0101		

014035
00381.0

AMPLITUDE x.25 uV-seconds (enlarged x .5)



SAMPLED SD EPPI INJECTED RT 2:11:15 ON FEB 21, 1984
Methoxy EP96 Runt RE106 Prc:1 PE105

EPAL

DB530M

014036

005301

Report: 2002.00 Channel: 0

Sample: SD EPA1

Injected at 21:11:06 ON FEB 21, 1984

ESTD Method: EPA0

Seq: SEQU1

SubsQ/Samp: 1/ 6

Ret: 6

SJ-width MV/Min Delay Min-Ar Bunch
.250 .300 3.00 100

Sup-link DvT ID-LvJ Ref-RTW ZRTW ZDij-f Iso
NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 35.217 minutes

RT	ITM	Factor	Area	UG/ML	Name
3.96	0.00	.10000E+01	109	BR	109 250
7.03	0.00	.10000E+01	12596	BR	12596 312
7.97	0.00	.10000E+01	6714	BR	6714 000
8.24	0.00	.10000E+01	12094	BR	12094 375
9.17	0.00	.10000E+01	10928	BR	10928 932
11.30	0.00	.10000E+01	12377	BR	12377 437
12.97	0.00	.10000E+01	11170	BR	11169 625
14.94	0.00	.10000E+01	11088	BR	11087 500
16.92	0.00	.10000E+01	10129	BR	10129 312
18.18	0.00	.10000E+01	8963	KV	8962 563
18.34	0.00	.10000E+01	9516	UR	9515 938
19.57	0.00	.10000E+01	8056	BR	8056 125
20.10	0.00	.10000E+01	8549	BR	8548 938
20.56	0.00	.10000E+01	7135	BR	7134 875
21.18	0.00	.10000E+01	7659	BR	7658 500
22.53	0.00	.10000E+01	7945	KV	7945 250
22.68	0.00	.10000E+01	6883	UR	6883 438
24.47	0.00	.10000E+01	342	BR	341 625
25.02	0.00	.10000E+01	840	BR	840 313
26.82	0.00	.10000E+01	426	BR	425 750
27.25-27.25		.10000E+01	4911	BR	4911 313 *DHC

Total Area = 158430

Total UG/ML = 4911.313

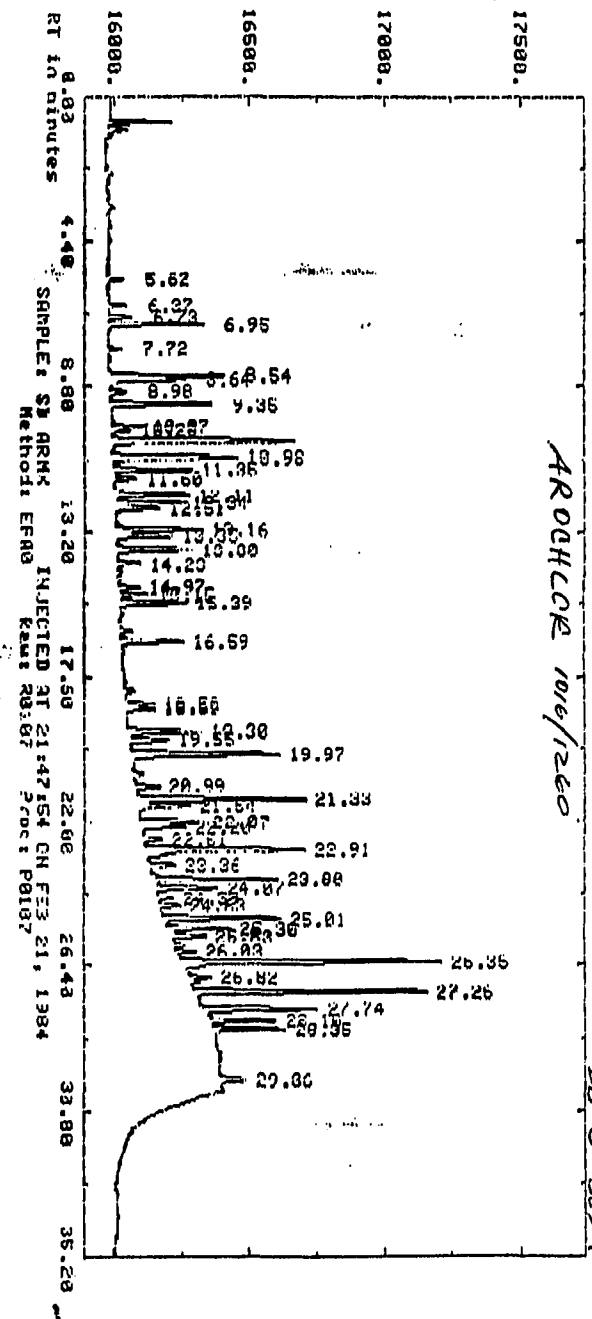
Processed data file: P0106

Raw data file: R0106

014037

003365

INJECTION AT 20 SECONDS INTERVALS



014038

005363

Report: 2003.00 Channel: 0

Sample: SD ARMX

Injected at 21:47:54 ON FEB 21, 1984

ESTD Method: EPA0 Seq: SEQ01 Hubsq/Samp: 1/ 7 Rtl: 7

S1-width MV/Min Delay Min-Ar Runch
250 .300 3.00 1.00

Sup-Link DvT TD-Lv Ref-RTW XRTW XDIJ-f Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 35.217 minutes

RT	ITH	Factor	Area	UG/ML	Name
5.62	0.00	.10000E+01	219. RR	219.217	
6.37	0.00	.10000E+01	274. RR	274.500	
6.73	0.00	.10000E+01	374. RR	374.438	
6.95	0.00	.10000E+01	1615. RR	1615.188	
7.22	0.00	.10000E+01	160. RR	159.750	
8.54	0.00	.10000E+01	2084. BV	2084.344	
8.64	0.00	.10000E+01	1293. VB	1293.375	
8.99	0.00	.10000E+01	247. RR	247.000	
9.35	0.00	.10000E+01	1909. RR	1909.250	
10.07	0.00	.10000E+01	525. BV	525.188	
10.20	0.00	.10000E+01	307. VB	306.688	
10.98	0.00	.10000E+01	2500. RR	2500.250	
11.35	0.00	.10000E+01	1535. RR	1534.625	
11.60	0.00	.10000E+01	402. RR	401.500	
12.11	0.00	.10000E+01	1300. BV	1299.500	
12.34	0.00	.10000E+01	1279. UV	1279.156	
12.51	0.00	.10000E+01	1119. UR	1119.000	
13.16	0.00	.10000E+01	1802. BV	1802.219	
13.35	0.00	.10000E+01	1279. VB	1279.281	
13.80	0.00	.10000E+01	2076. RR	2075.938	
14.23	0.00	.10000E+01	437. RR	436.938	
14.97	0.00	.10000E+01	377. RR	377.438	
15.15	0.00	.10000E+01	512. RR	511.781	
15.39	0.00	.10000E+01	1517. RR	1516.500	
16.59	0.00	.10000E+01	1366. RR	1366.250	
18.50	0.00	.10000E+01	603. BV	602.938	
18.63	0.00	.10000E+01	611. UR	611.281	
19.30	0.00	.10000E+01	1564. RR	1563.625	
19.55	0.00	.10000E+01	864. RR	863.750	
19.97	0.00	.10000E+01	3543. RR	3542.488	
20.99	0.00	.10000E+01	537. RR	536.500	
21.33	0.00	.10000E+01	3987. BV	3986.875	
21.54	0.00	.10000E+01	1180. UR	1180.281	
22.07	0.00	.10000E+01	1447. BV	1447.250	
22.20	0.00	.10000E+01	974. UR	974.125	
22.61	0.00	.10000E+01	418. RR	417.500	
22.91	0.00	.10000E+01	4244. RR	4243.813	
23.36	0.00	.10000E+01	549. RR	549.250	
23.80	0.00	.10000E+01	2882. BV	2881.750	
24.07	0.00	.10000E+01	1353. UR	1353.000	
24.39	0.00	.10000E+01	269. RR	268.750	
24.63	0.00	.10000E+01	396. RR	395.875	
25.01	0.00	.10000E+01	2358. RR	2357.813	
25.30	0.00	.10000E+01	1246. BV	1246.000	
25.53	0.00	.10000E+01	905. VB	905.375	
26.03	0.00	.10000E+01	362. RR	362.000	
26.35	0.00	.10000E+01	5507. RR	5507.125	
26.82	0.00	.10000E+01	339. RR	338.500	
27.25-27.25	27.25	.10000E+01	4575. RR	4575.250	*DRC
27.74	0.00	.10000E+01	2309. RR	2308.875	
28.10	0.00	.10000E+01	1271. RR	1270.750	
28.35	0.00	.10000E+01	1484. RR	1483.844	
29.86	0.00	.10000E+01	619. RR	618.625	

Total Area = 72872.

Total UG/ML = 618.625

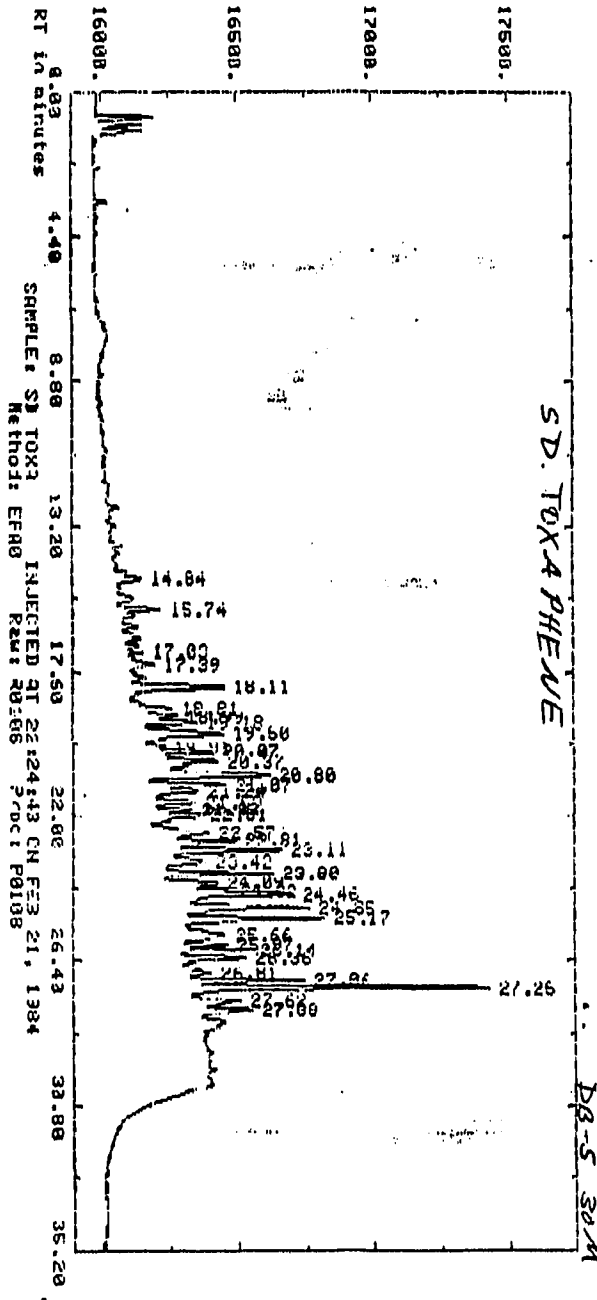
Processed data file: P0107

Raw data file: R0107

014039

005364

AMPLITUDE x.25 uV-seconds (Enlarged x 2.5)



014040

005365

Report: 2004.00 Channel: 0

Sample: SD TOXA

Injected at 22:24:43 ON FEB 21, 1984

ESTD Method: EPA0

Seq: SEQU1

Subsq/Samp: 1/ 8

Rtl: B

SI-width MU/Min Delay Min-Ar Runch
250 .300 3.00 100

Sup-Unk DuT JD-Lvl Ref-RTW XRTW XDI1-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 35.217 minutes

RT	ITH	Factor	Area	UG/ML	Name
14.84	0.00	1.0000E+01	259. BB	259.000	
15.74	0.00	1.0000E+01	719. VR	719.750	
17.03	0.00	1.0000E+01	233. BB	233.281	
17.39	0.00	1.0000E+01	638. BB	638.000	
18.11	0.00	1.0000E+01	2878. BB	2877.500	
18.81	0.00	1.0000E+01	868. BV	868.125	
18.99	0.00	1.0000E+01	455. VR	454.563	
19.18	0.00	1.0000E+01	890. BB	849.750	
19.50	0.00	1.0000E+01	2610. BB	2609.625	
19.91	0.00	1.0000E+01	170. BB	169.531	
20.07	0.00	1.0000E+01	1187. BV	1186.719	
20.37	0.00	1.0000E+01	870. VR	870.063	
20.80	0.00	1.0000E+01	4081. BV	4081.125	
21.07	0.00	1.0000E+01	1739. UV	1739.438	
21.24	0.00	1.0000E+01	1348. VR	1347.563	
21.59	0.00	1.0000E+01	1119. BV	1118.563	
21.83	0.00	1.0000E+01	731. UV	731.188	
22.01	0.00	1.0000E+01	1249. VR	1249.031	
22.57	0.00	1.0000E+01	1192. BV	1191.750	
22.81	0.00	1.0000E+01	943. VR	943.313	
23.11	0.00	1.0000E+01	2664. BV	2663.969	
23.42	0.00	1.0000E+01	1260. VR	1260.438	
23.80	0.00	1.0000E+01	2787. BV	2786.688	
24.09	0.00	1.0000E+01	1205. VR	1205.063	
24.32	0.00	1.0000E+01	547. BV	546.844	
24.46	0.00	1.0000E+01	2587. VR	2586.875	
24.85	0.00	1.0000E+01	3237. BV	3237.375	
25.17	0.00	1.0000E+01	3586. VR	3586.438	
25.66	0.00	1.0000E+01	678. BH	677.688	
25.97	0.00	1.0000E+01	842. BV	841.625	
26.14	0.00	1.0000E+01	1384. UV	1384.031	
26.36	0.00	1.0000E+01	1254. VR	1253.594	
26.81	0.00	1.0000E+01	704. BB	703.750	
27.06	0.00	1.0000E+01	2381. BV	2381.250	
27.25-27.25	0.00	1.0000E+01	6447. UV	6446.750	ADHC
27.62	0.00	1.0000E+01	447. VR	447.000	
27.88	0.00	1.0000E+01	329. BH	329.344	

Total Area = 56396

Total UG/ML = 329.344

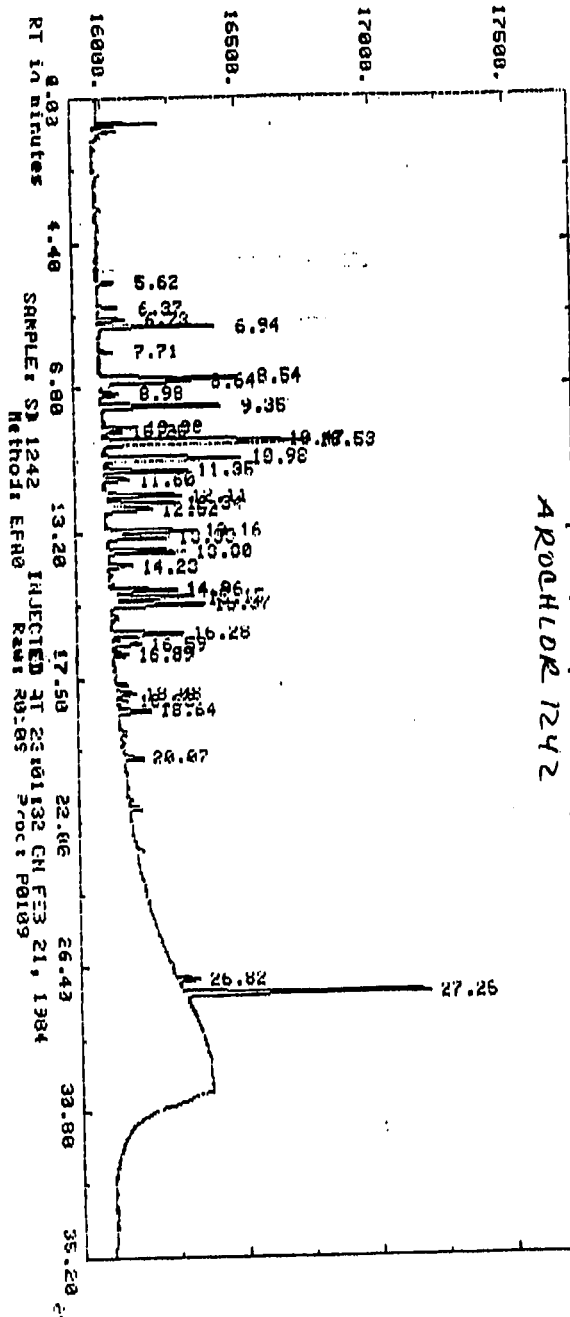
Processed data file: P010R

Raw data file: R010R

014041

005306

AMPLITUDE x.25 uV-seconds (Enlarged x .75)



DG-5 30M

014042

005367

Report: 2005.00 Channel: 0
 Sample: SD 1242 Injected at 23:01:32 ON FEB 21, 1984
 STD Method: EPA0 Req: SEQ01 Subsq/Samp: 1/9 Rtl: 9
 SI-width MV/Min Delay Min-Ar Runch
 .250 .300 3.00 100
 Sup-Link DuT ID-Lvl Ref-RTW XRTW XDI-f Tco
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 35.217 minutes

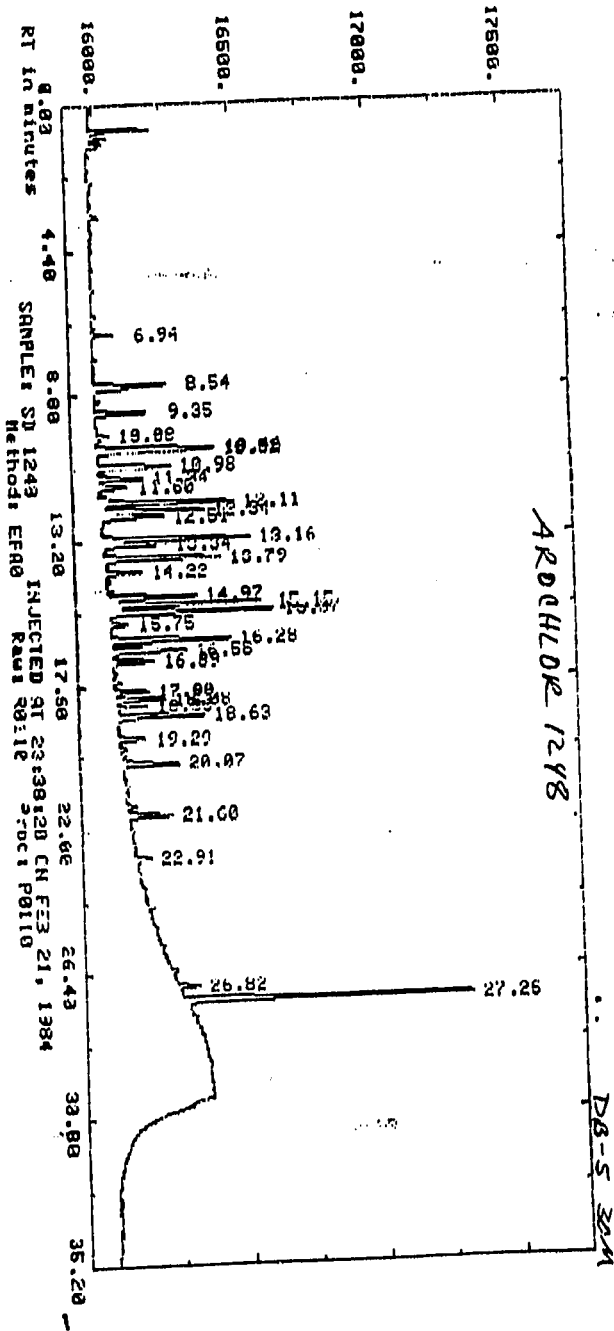
RT	ITM	Factor	Area	UG/MI	Name
5.62	0.00	.10000E+01	292	291	500
6.37	0.00	.10000E+01	349	349	125
6.73	0.00	.10000E+01	407	407	125
6.94	0.00	.10000E+01	1973	1973	250
7.21	0.00	.10000E+01	220	219	238
8.54	0.00	.10000E+01	2510	2510	313
8.64	0.00	.10000E+01	1579	1579	125
8.98	0.00	.10000E+01	312	312	125
9.35	0.00	.10000E+01	2278	2277	500
10.08	0.00	.10000E+01	604	604	250
10.20	0.00	.10000E+01	367	366	844
10.47	0.00	.10000E+01	2735	2735	406
10.53	0.00	.10000E+01	3904	3903	813
10.98	0.00	.10000E+01	2798	2798	375
11.35	0.00	.10000E+01	1687	1686	750
11.60	0.00	.10000E+01	451	450	938
12.11	0.00	.10000E+01	1370	1370	250
12.34	0.00	.10000E+01	1374	1374	469
12.52	0.00	.10000E+01	1198	1198	831
13.16	0.00	.10000E+01	1867	1866	500
13.35	0.00	.10000E+01	1426	1426	000
13.80	0.00	.10000E+01	2174	2174	313
14.23	0.00	.10000E+01	475	475	000
14.96	0.00	.10000E+01	1462	1461	906
15.15	0.00	.10000E+01	1851	1851	469
15.37	0.00	.10000E+01	2185	2184	875
16.28	0.00	.10000E+01	1757	1756	875
16.59	0.00	.10000E+01	701	701	250
16.89	0.00	.10000E+01	272	271	500
18.08	0.00	.10000E+01	376	376	250
18.33	0.00	.10000E+01	151	150	750
18.64	0.00	.10000E+01	692	691	938
20.07	0.00	.10000E+01	457	456	500
26.82	0.00	.10000E+01	418	418	313
27.25-27.25		.10000E+01	4890	4890	250 *DHC

Total Area = 47565. Total UG/ML = 4890.250
 Processed data file: P0109 Raw data file: R0109

014043

005368

AMPLITUDE x.25 uV-seconds (Enlarged x .84)



014044

005369

Report: 2006.00 Channel: 0

Sample: SD 1248

Injected at 23:38:20 ON FEB 21, 1984

ESTD Method: EPA0

Seq: SEQ01

Subsq/Samp: 1/10

Rt: 10

SI-width: MV/Min Delay Min-Ap Bunch

.250 .300 3.00 100

Sup-Unk DuT ID-Lvl Ref-RTW XRTW XDi1-f Iso

NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 35.221 minutes

Reading(s) missed

RT	ITM	Factor	Area	UG/ML	Name
6.24	0.00	.10000E+01	334. RR	333.750	
8.54	0.00	.10000E+01	395. RR	394.750	
9.35	0.00	.10000E+01	971. RR	971.000	
10.08	0.00	.10000E+01	169. RR	169.000	
10.46	0.00	.10000E+01	1983. BU	1983.406	
10.52	0.00	.10000E+01	2041. UR	2040.813	
10.98	0.00	.10000E+01	1539. RR	1539.125	
11.34	0.00	.10000E+01	928. RR	927.813	
11.60	0.00	.10000E+01	525. RR	525.750	
12.11	0.00	.10000E+01	2942. BU	2941.813	
12.34	0.00	.10000E+01	2139. UV	2138.750	
12.51	0.00	.10000E+01	1650. UR	1649.813	
13.16	0.00	.10000E+01	3058. BU	3058.219	
13.34	0.00	.10000E+01	1410. UR	1410.281	
13.79	0.00	.10000E+01	3222. RR	3221.750	
14.22	0.00	.10000E+01	710. RR	710.125	
14.97	0.00	.10000E+01	1883. BU	1882.844	
15.15	0.00	.10000E+01	3395. UV	3394.656	
15.37	0.00	.10000E+01	3929. UR	3929.313	
15.75	0.00	.10000E+01	305. RR	305.125	
16.28	0.00	.10000E+01	2891. RR	2890.500	
16.58	0.00	.10000E+01	1943. RR	1942.875	
16.89	0.00	.10000E+01	857. RR	857.250	
17.80	0.00	.10000E+01	701. RR	701.063	
18.08	0.00	.10000E+01	1099. RR	1099.125	
18.33	0.00	.10000E+01	592. RR	591.813	
18.63	0.00	.10000E+01	1920. RR	1919.750	
19.29	0.00	.10000E+01	569. RR	569.125	
20.07	0.00	.10000E+01	1429. RR	1429.000	
21.60	0.00	.10000E+01	1059. RR	1058.625	
22.91	0.00	.10000E+01	293. RR	293.250	
26.82	0.00	.10000E+01	372. RR	372.063	
27.25-27.25		.10000E+01	5713. RR	5712.500	*DRC

Total Area = 52965.

Total UG/ML = 5712.500.

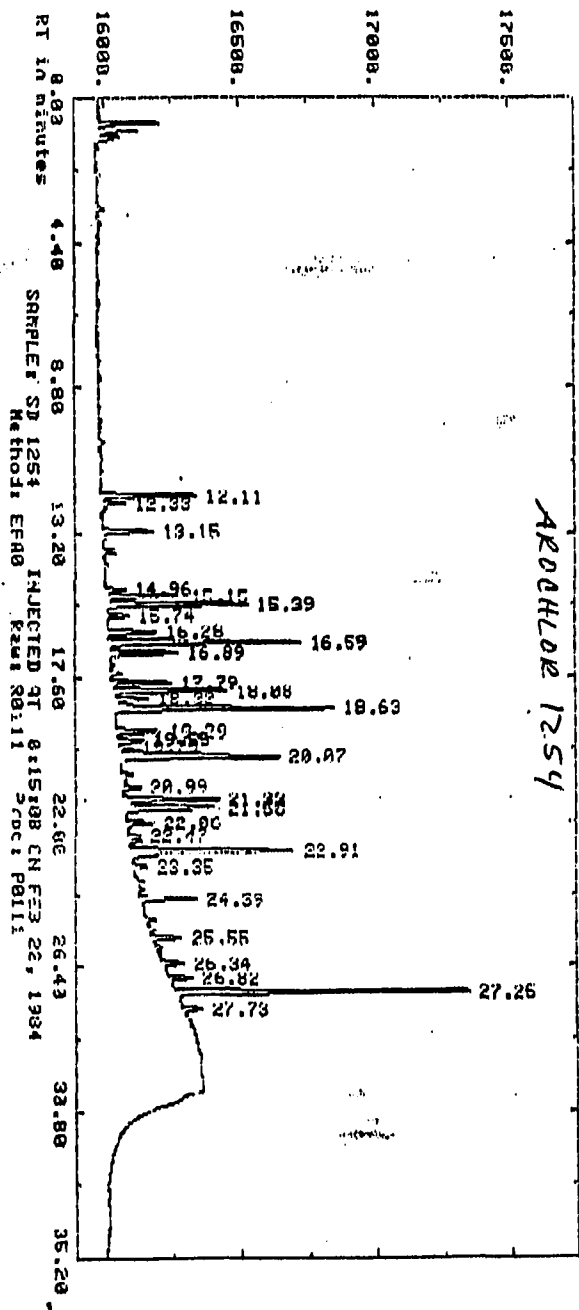
Processed data file: P0110

Raw data file: R0110

014045

005370

AMPLITUDE X.25 MV-SECONDS (CALIBRATED)



014746
005871

Report: 2007.00 Channel: 0

Sample: SD 1254

Injected at 0:15:08 ON FEB 22, 1984

ESTD Method: EPA0

Seq: SEQ01

Subsq/Samp: 1/11

Rtl: 11

SI-Width MV/Min Delay Min-Ar Bunch
.250 .300 3.00 1.00

Sup-Link DvT ID-Lvl Ref-RTW XRTW XD11-f Iso
NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 35.217 minutes

RT	ITM	Factor	Area	UG/ML	Name
12.11	0.00	.10000E+01	1834	BR	1833.688
12.33	0.00	.10000E+01	395	BR	394.563
13.15	0.00	.10000E+01	1005	BR	1004.750
14.96	0.00	.10000E+01	434	BV	434.188
15.15	0.00	.10000E+01	1609	VU	1609.438
15.39	0.00	.10000E+01	3252	VR	3251.688
15.74	0.00	.10000E+01	436	BR	435.500
16.28	0.00	.10000E+01	1094	BR	1094.250
16.59	0.00	.10000E+01	4666	BR	4666.250
16.89	0.00	.10000E+01	1469	BR	1468.625
17.79	0.00	.10000E+01	1324	BR	1323.500
18.08	0.00	.10000E+01	2570	BV	2569.875
18.33	0.00	.10000E+01	709	VU	708.781
18.63	0.00	.10000E+01	5203	VR	5203.125
19.29	0.00	.10000E+01	974	BR	974.250
19.55	0.00	.10000E+01	610	BR	609.281
19.79	0.00	.10000E+01	190	BR	189.531
20.07	0.00	.10000E+01	5177	BR	5177.375
20.99	0.00	.10000E+01	381	BR	380.500
21.33	0.00	.10000E+01	2210	BV	2210.313
21.58	0.00	.10000E+01	3097	VR	3097.125
22.06	0.00	.10000E+01	602	BR	601.625
22.47	0.00	.10000E+01	164	BR	163.875
22.91	0.00	.10000E+01	4504	BR	4504.000
23.35	0.00	.10000E+01	259	BR	258.625
24.39	0.00	.10000E+01	1141	BR	1140.563
25.55	0.00	.10000E+01	589	BR	589.438
26.34	0.00	.10000E+01	354	BR	354.375
26.82	0.00	.10000E+01	427	BR	427.375
27.25-27.25	0.00	.10000E+01	5792	BR	5792.250 *DRC
27.73	0.00	.10000E+01	316	BR	316.000

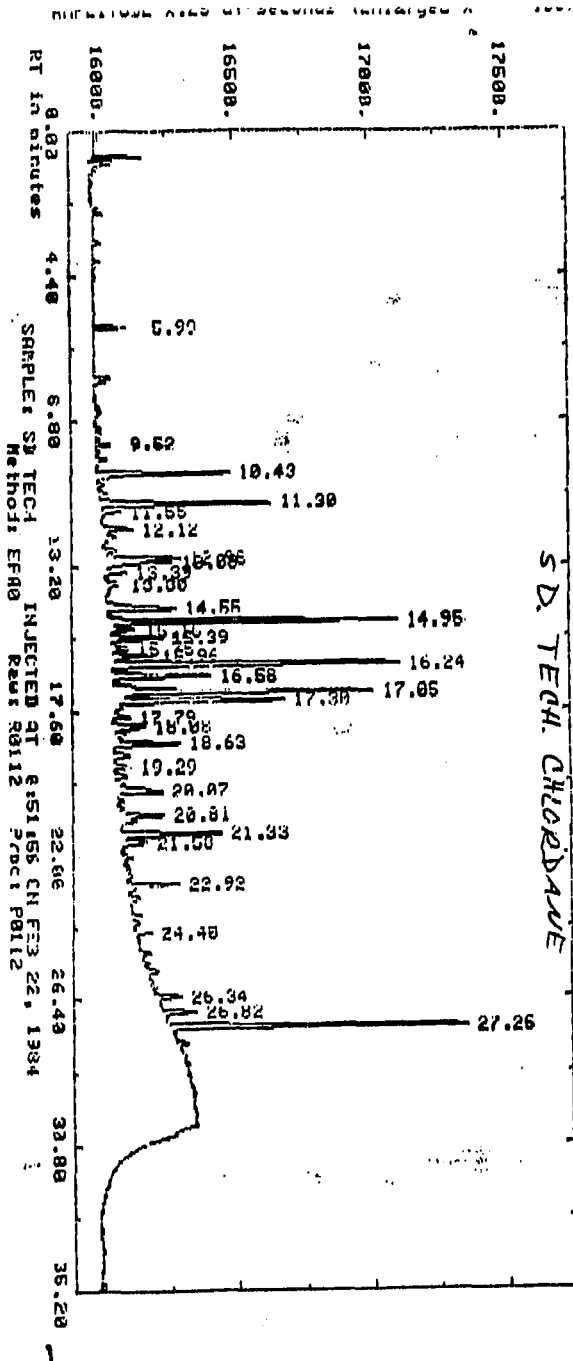
Total Area = 52785.

Total UG/ML = 316.000

Processed data file: P011

Raw data file: R011

014047
005372



014048

005378

Report: 2008.00 Channel: 0

Sample: SD TECH

Injected at 0:51:56 ON FEB 22, 1984

ESTD Method: EPA0 Seq: SEQ01 Subsq/Samp: 1/12 Rtl: 12

SI-width MV/Min Delay Min-Ac Runch
250 .300 3.00 100

Sup-Link DvT ID-Lvl Ref-RTW XRTW XDI-f Iso
NO 0.00 0 30 5.0 100.00 ND

Actual run time: 35.217 minutes

RT	ITM	Factor	Area	UG/ML	Name
5.99	0.00	.10000E+01	591	BR	591.438
9.52	0.00	.10000E+01	317	BR	316.500
10.43	0.00	.10000E+01	2779	BR	2779.250
11.30	0.00	.10000E+01	3653	BR	3652.750
11.55	0.00	.10000E+01	362	BR	362.313
12.12	0.00	.10000E+01	458	BR	458.375
12.98	0.00	.10000E+01	1396	BV	1396.313
13.08	0.00	.10000E+01	1587	VR	1587.438
13.39	0.00	.10000E+01	416	BR	416.000
13.80	0.00	.10000E+01	173	BR	173.000
14.55	0.00	.10000E+01	2049	BR	2049.225
14.95	0.00	.10000E+01	5271	BV	5271.125
15.15	0.00	.10000E+01	542	VR	541.531
15.39	0.00	.10000E+01	1031	BR	1031.281
15.75	0.00	.10000E+01	523	BR	523.188
15.96	0.00	.10000E+01	661	BR	660.750
16.24	0.00	.10000E+01	6515	BR	6514.750
16.58	0.00	.10000E+01	2359	BR	2358.938
17.05	0.00	.10000E+01	6387	BV	6386.625
17.30	0.00	.10000E+01	3943	VR	3943.125
17.79	0.00	.10000E+01	380	BR	380.250
18.08	0.00	.10000E+01	312	BR	316.500
18.63	0.00	.10000E+01	1459	BR	1459.000
19.29	0.00	.10000E+01	305	BR	304.625
20.07	0.00	.10000E+01	1858	BR	1858.063
20.81	0.00	.10000E+01	713	BR	712.750
21.33	0.00	.10000E+01	2283	BV	2283.188
21.58	0.00	.10000E+01	829	VR	828.656
22.92	0.00	.10000E+01	1056	BR	1056.125
24.40	0.00	.10000E+01	299	BR	299.125
26.34	0.00	.10000E+01	449	BR	448.938
26.82	0.00	.10000E+01	613	BR	612.500
27.25-27.25		.10000E+01	5936	BR	5935.500 #DRC

Total Area = 58001.

Total UG/ML = 5935.500

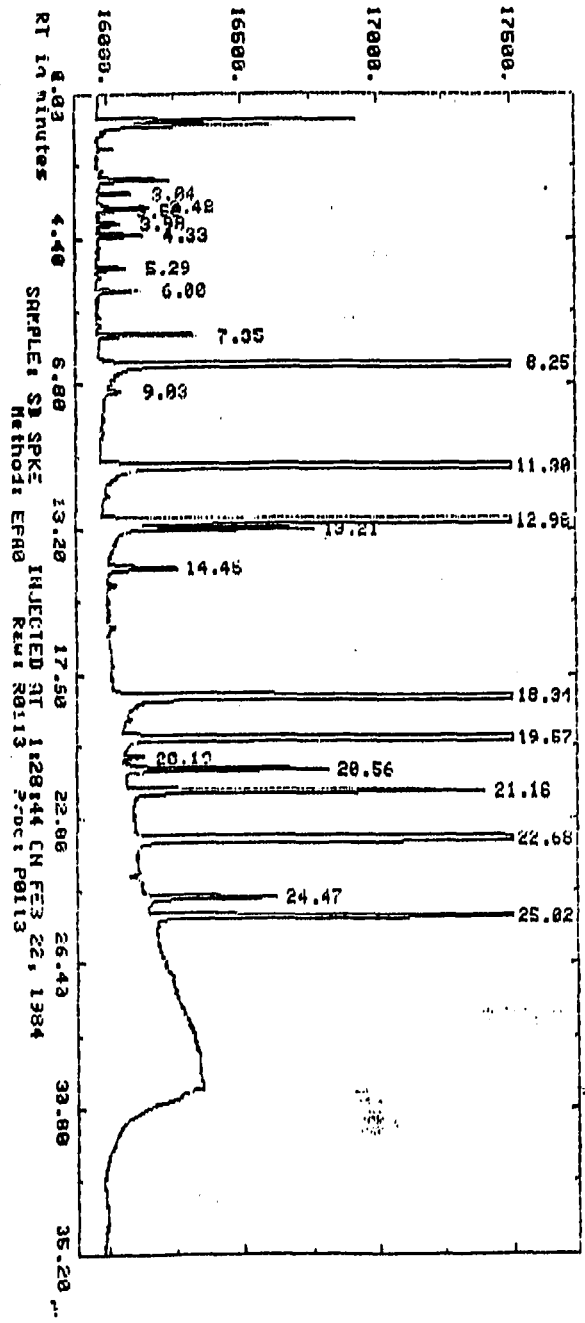
Processed data file: P0112

Raw data file: R0112

014019

005874

AMPLITUDE x.25 microseconds (enlarged)



014050

005375

Report: 2009.00 Channel: 0

Sample: SD SPKE

Injected at 1:28:44 ON FEB 22, 1984

ESTD Method: EPA0

Seq: 8EQ01

Subseq/Ramp: 1/13

Et: 13

Sl-width MV/Min Delay Min-Ar Bunch
.250 .300 3.00 1.00

Sup-link DuT ID-Lvl Ref-RTW XRTW XDI-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 35.217 minutes

No reference peak found

RT	ITM	Factor	Area	UG/ML	Name
3.04	0.00	.10000E+01	308.	RR	.048
3.48	0.00	.10000E+01	855.	BV	.132
3.58	0.00	.10000E+01	270.	VB	.042
3.98	0.00	.10000E+01	313.	RR	.048
4.37	0.00	.10000E+01	613.	RR	.095
4.79	0.00	.10000E+01	411.	RR	.064
5.00	0.00	.10000E+01	760.	RR	.118
6.00	0.00	.10000E+01	1674.	RR	.259
7.35	0.00	.10000E+01	112234.	RR	17.385
8.25	0.00	.10000E+01	222.	RR	.034
9.03	0.00	.10000E+01	112478.	RR	17.423
11.30	0.00	.10000E+01	114648.	BV	17.759
12.98	0.00	.10000E+01	4409.	VB	.683
13.21	0.00	.10000E+01	1555.	RR	.241
14.45	0.00	.10000E+01	109831.	RR	17.013
18.34	0.00	.10000E+01	77978.	RR	12.079
19.57	0.00	.10000E+01	457.	RR	.071
20.19	0.00	.10000E+01	4571.	RR	.708
20.56	0.00	.10000E+01	8006.	RR	1.240
21.18	0.00	.10000E+01	79372.	RR	12.295
22.18	0.00	.10000E+01	2757.	RR	.427
24.47	0.00	.10000E+01	11845.	RR	1.835
25.02	0.00	.10000E+01			

Total Area = 645566.

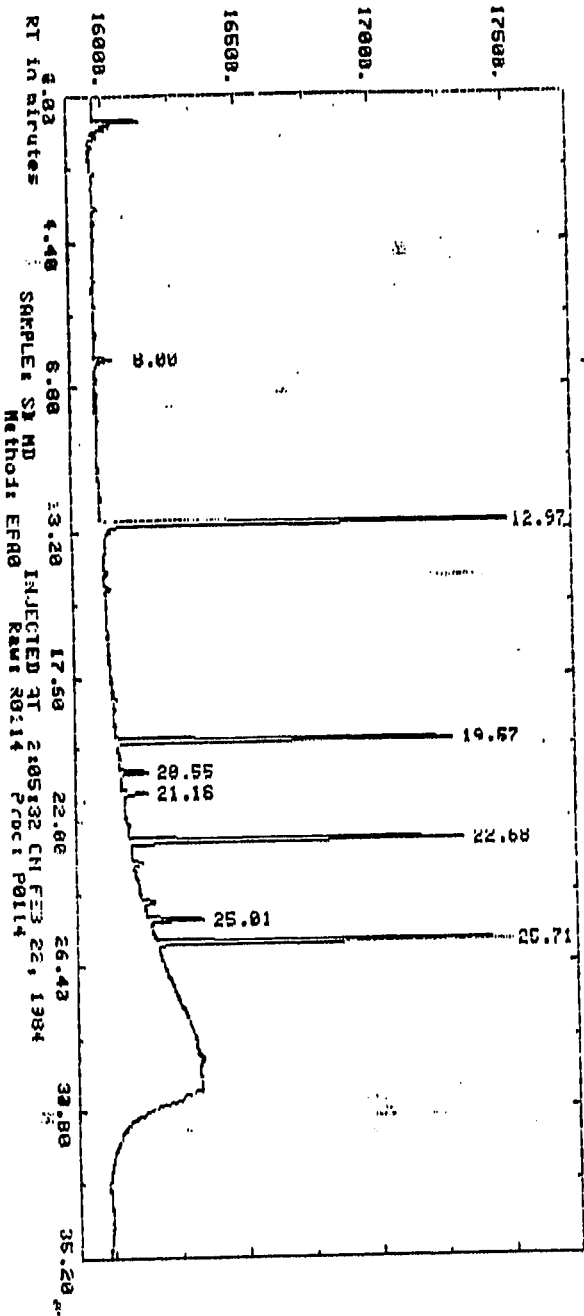
Total UG/ML = 11845.125

Processed data file: P0113

Raw data file: R0113

TADBR276
014051

AMPLITUDE x.25 uV-seconds (Enlarged x 1.5x)



005477

014052

SEQUENCE RUN LOG - QC/QA

FEB 24, 1984

8:15 AM

PAGE 1

SEQUENCE NAME - 56001

CALIB. STD LOT EPA1

L.U. REF 15

CHANNEL # 0

DATE STARTED

INSTRUMENT # 07

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	R#	CASE NUMBER	EPA NUMBER	INJECTION TIME
SD HAPKE	01			18:07:04 ON FEB 21, 1984
✓ PH 20832	02			18:41:51 ON FEB 21, 1984
✓ PH 20790	03			19:20:39 ON FEB 21, 1984
✓ PH 20787	04			19:57:28 ON FEB 21, 1984
SD HAPKE	05			20:34:19 ON FEB 21, 1984
SD EPA1	06			21:11:06 ON FEB 21, 1984
SD ARMX	07			21:47:54 ON FEB 21, 1984
SD TOXA	08			22:24:43 ON FEB 21, 1984
SD 1242	09			23:01:32 ON FEB 21, 1984
SD 1248	10			23:38:20 ON FEB 21, 1984
SD 1254	11			0:15:08 ON FEB 22, 1984
SD TECH	12			0:51:56 ON FEB 22, 1984
SD BPKE	13			1:28:44 ON FEB 22, 1984
SD MD	14			2:05:32 ON FEB 22, 1984
✓ PP 20799	15			2:42:19 ON FEB 22, 1984
✓ PP 19563	16	C#2333	R3522	3:19:09 ON FEB 22, 1984
PP 19658R	17	C#2397	SS	3:55:59 ON FEB 22, 1984
✓ PP 19657R	18	C#2397	SH	4:32:51 ON FEB 22, 1984
✓ PH 19938R	19	2367	SS	5:09:43 ON FEB 22, 1984
✓ PP 19939R	20	2367	SS	5:46:37 ON FEB 22, 1984
CP 20289HC	21	C#2434	R3376	6:24:29 ON FEB 22, 1984
✓ CP 20663	22	2428	E4641	7:00:30 ON FEB 22, 1984
SD MD	23			7:37:24 ON FEB 22, 1984
SD 1232	24			8:14:11 ON FEB 22, 1984
CP 20665	25			8:51:02 ON FEB 22, 1984
CP 20655	26			9:27:55 ON FEB 22, 1984
CP 20654	27			10:04:46 ON FEB 22, 1984
✓ CP 19938R	28			10:41:38 ON FEB 22, 1984
✓ CP 20669	29			11:18:30 ON FEB 22, 1984
✓ CP 20667	30			11:55:25 ON FEB 22, 1984
✓ CP 20671	31			12:32:18 ON FEB 22, 1984
✓ CP 20672	32			13:09:09 ON FEB 22, 1984
SD EPA4	33			13:46:05 ON FEB 22, 1984
SD MD	34			14:22:57 ON FEB 22, 1984

014354

SEQUENCE RUN LOG - QC/QA

FEB 24, 1984

8:15 AM

PAGE 2

SEQUENCE NAME - SEQ01

CALIB. STD LOT EPA1

L.I. REF 15

CHANNEL # 0

DATE STARTED

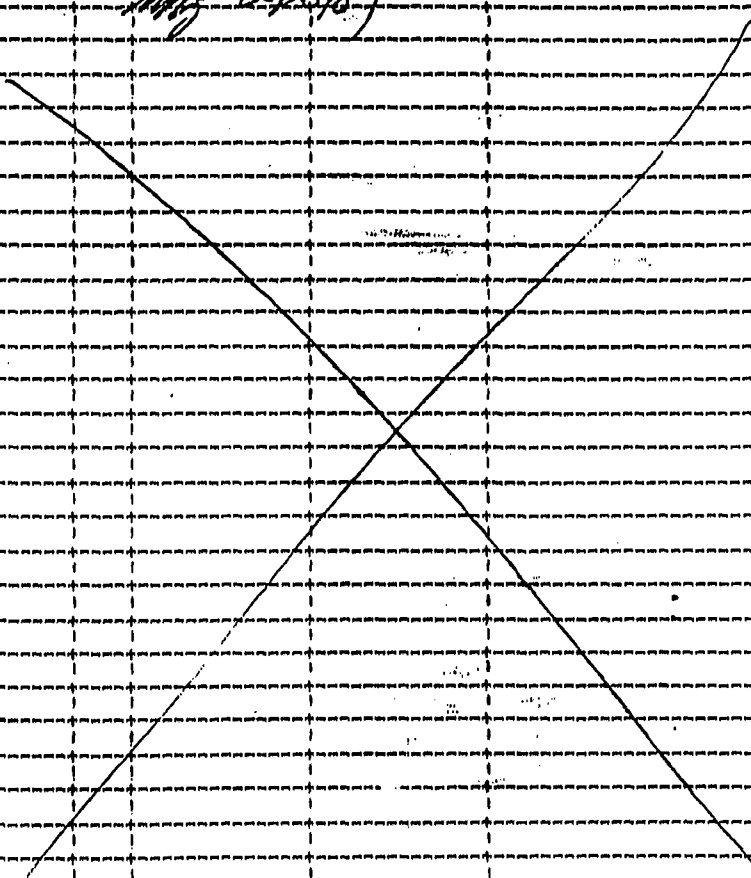
INSTRUMENT # 07

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
✓ CP 20673	35			15:54:32 ON FEB 22, 1984
CP 20422 <i>demo</i>	36	C8860R	R55398	16:31:22 ON FEB 22, 1984
CP 20480HC <i>demo</i>	37	C8860R	R55798	17:08:13 ON FEB 22, 1984
CP 20481HC <i>demo</i>	38	C8860R	R55798	17:45:10 ON FEB 22, 1984
CP 20479HC <i>demo</i>	39	C8860R	R5579	18:22:05 ON FEB 22, 1984
CP 20437 <i>demo</i>	40	C8860R	R5567	18:58:59 ON FEB 22, 1984
SD HB	41			19:35:52 ON FEB 22, 1984

My 2/28/84



014055

005280

D

014056

005381

EPA CASE# 2002

MEAD COMPUCHEM CASE SUMMARY REFERENCE GUIDE

REVISED date 2-29-84

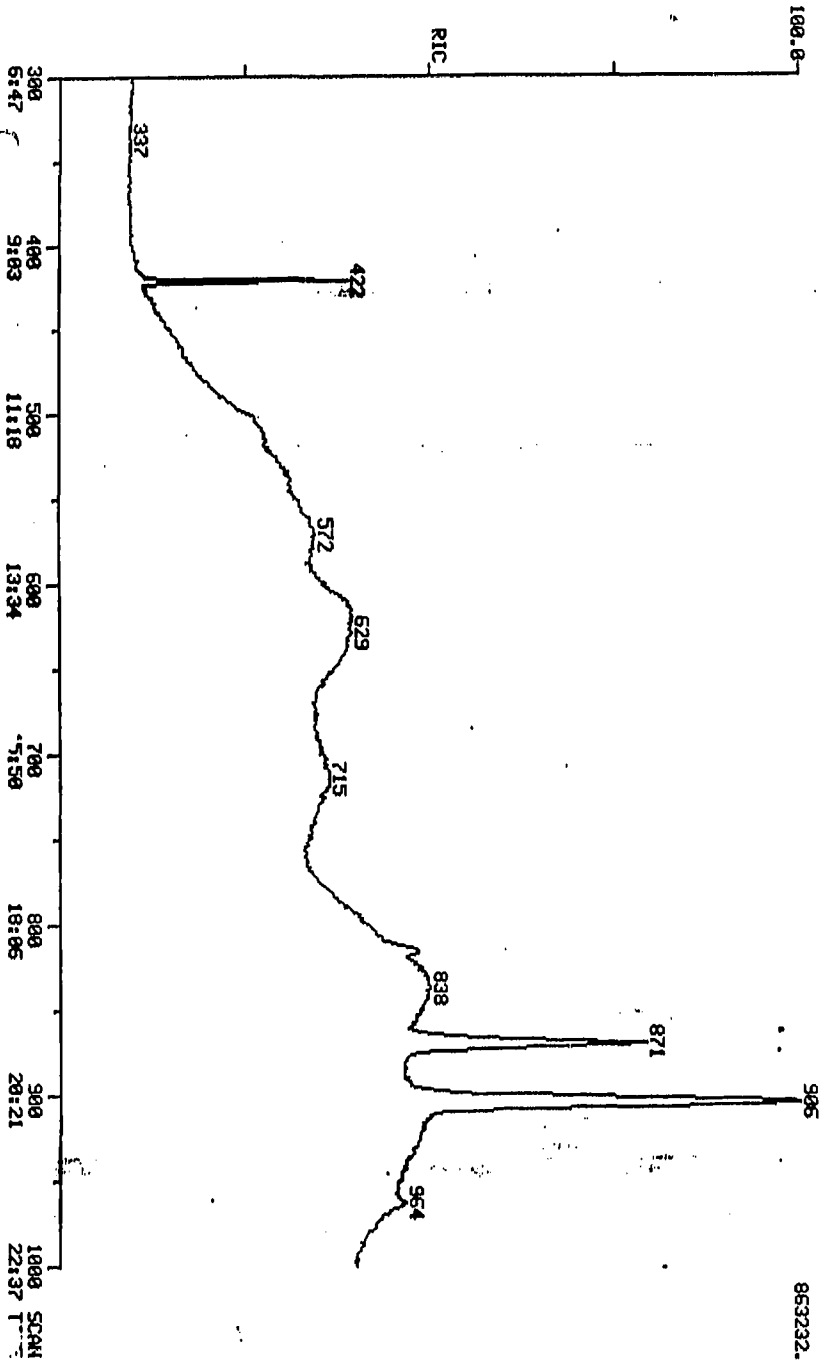
fraction	associated tune	associated shift. std.	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blank	Extract. Date	Assoc. BTK#	Comment
TCDD		T3840216003	P359	R3518	✓				
		"	P361	R3520	✓				
		T5840216004	19563	R3522	✓				
		T5840216004	19558	R3517	by 2/21/84				
		TT840213604	19558	R3517	✓				
		TT840216005	19560	R3519	✓				
		TT840216005	19562	R3521	✓				

RIC
02/13/84 17:32:00
SAMPLE: 2/59 UL MIZZ

STD LOT 8988 (200 PG/ML)
CONVULSIN DATA: TR840213804 SCANS 300 TO 1000
OIA # 04

014058

863232.



002386

PROCEDURE: RK
 DATA FILE: TT840213804
 REFERENCE: TC
 METHOD: TC
 REPORT: TCS

DIAGNOSTIC REPORT

2/13/84 18:17:01

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< --- STANDARDS --- > < --- PLUS UNKNOWN --- > < --- LIST NAMES --- >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 2 2 3 72 7 7 1 2 TCS/TCU

7 COMPOUNDS PROCESSED, 7 FOUND

< COMPOUND >		SEARCH						> SAT <		CHRO		
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	TC	1	905	904	905	1	1	831	332	905		1
2	TC	2	872	872	871	-1	3	997	320	871		1
3	TC	3	872	871	871		1	997	322	871		1
4	TC	4	872	871	871		1	997	257	871		1
5	TC	5	907	907	907		1	975	320	907		1
6	TC	6	907	907	907		1	975	322	906	-1	1
7	TC	7	906	906	906		1	979	257	907	1	1

014059
 003:83

QUANTITATION REPORT FILE: TTB40213B04

DATA: TTB40213B04.TI

02/13/84 17:32:00

SAMPLE: 2/50 uL MIZZ Std Lot 8988 (200 pg/ml)

OWA # 04

SUBMITTED BY: 04

ANALYST: 756

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

RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*13C12-2, 3, 7, 8-TCDD (INTERNAL STANDARD)
2	1, 2, 3, 4-TCDD
3	1, 2, 3, 4-TCDD
4	1, 2, 3, 4-TCDD
5	2, 3, 7, 8-TCDD
6	2, 3, 7, 8-TCDD
7	2, 3, 7, 8-TCDD

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	332	905	20:28	1	1.000	A BV	684440.	200.000 PG/UL	16.65
2	320	871	19:42	1	0.962	A VB	661717.	160.029 PG/UL	13.32
3	322	871	19:42	1	0.962	A BB	835551.	159.868 PG/UL	13.31
4	257	871	19:42	1	0.962	A BB	218800.	129.465 PG/UL	10.78
5	320	907	20:31	1	1.002	A BV	651846.	165.404 PG/UL	13.77
6	322	906	20:29	1	1.001	A BV	752521.	173.523 PG/UL	14.44
7	257	907	20:31	1	1.002	A BV	299456.	213.007 PG/UL	17.73

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	20:08	1.02	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	19:24	1.02	0.964	1.00	160.03	200.00	0.967	1.208	0.80
3	19:23	1.02	0.963	1.00	159.87	200.00	1.221	1.527	0.80
4	19:24	1.02	0.964	1.00	129.46	200.00	0.320	0.494	0.65
5	20:09	1.02	1.001	1.00	165.40	200.00	0.952	1.152	0.83
6	20:09	1.02	1.001	1.00	173.52	200.00	1.097	1.267	0.87
7	20:10	1.02	1.002	1.00	213.01	200.00	0.438	0.411	1.07

014060

005885

QUANTITATION REPORT FILE: TT840213B04

DATA: TT840213B04.TI

02/13/84 17:32:00

SAMPLE: 2/50 uL MIZZ Std Lot 8988 (200 pg/ml)

OWA # 04

SUBMITTED BY: 04

ANALYST: 756

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

NO NAME
1 *13C12-2, 3, 7, 8-TCDD (INTERNAL STANDARD)
2 1, 2, 3, 4-TCDD
3 1, 2, 3, 4-TCDD
4 1, 2, 3, 4-TCDD
5 2, 3, 7, 8-TCDD
6 2, 3, 7, 8-TCDD
7 2, 3, 7, 8-TCDD

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	332	905	20:28	1	1.000	A BV	684440.	200.000 PG/UL	14.29
2	320	871	19:42	1	0.962	A VB	661717.	200.000 PG/UL	14.29
3	322	871	19:42	1	0.962	A BB	835551.	200.000 PG/UL	14.29
4	257	871	19:42	1	0.962	A BB	218800.	200.000 PG/UL	14.29
5	320	907	20:31	1	1.002	A BV	651846.	200.000 PG/UL	14.29
6	322	906	20:29	1	1.001	A BV	752521.	200.000 PG/UL	14.29
7	257	907	20:31	1	1.002	A BV	299456.	200.000 PG/UL	14.29

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	20:28	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	19:42	1.00	0.962	1.00	200.00	200.00	0.967	0.967	1.00
3	19:42	1.00	0.962	1.00	200.00	200.00	1.221	1.221	1.00
4	19:42	1.00	0.962	1.00	200.00	200.00	0.320	0.320	1.00
5	20:31	1.00	1.002	1.00	200.00	200.00	0.952	0.952	1.00
6	20:29	1.00	1.001	1.00	200.00	200.00	1.097	1.097	1.00
7	20:31	1.00	1.002	1.00	200.00	200.00	0.438	0.438	1.00

014061

29

005886

RIC
02/13/84 17:32:00
SAMPLE: 2750 UL NIZZ

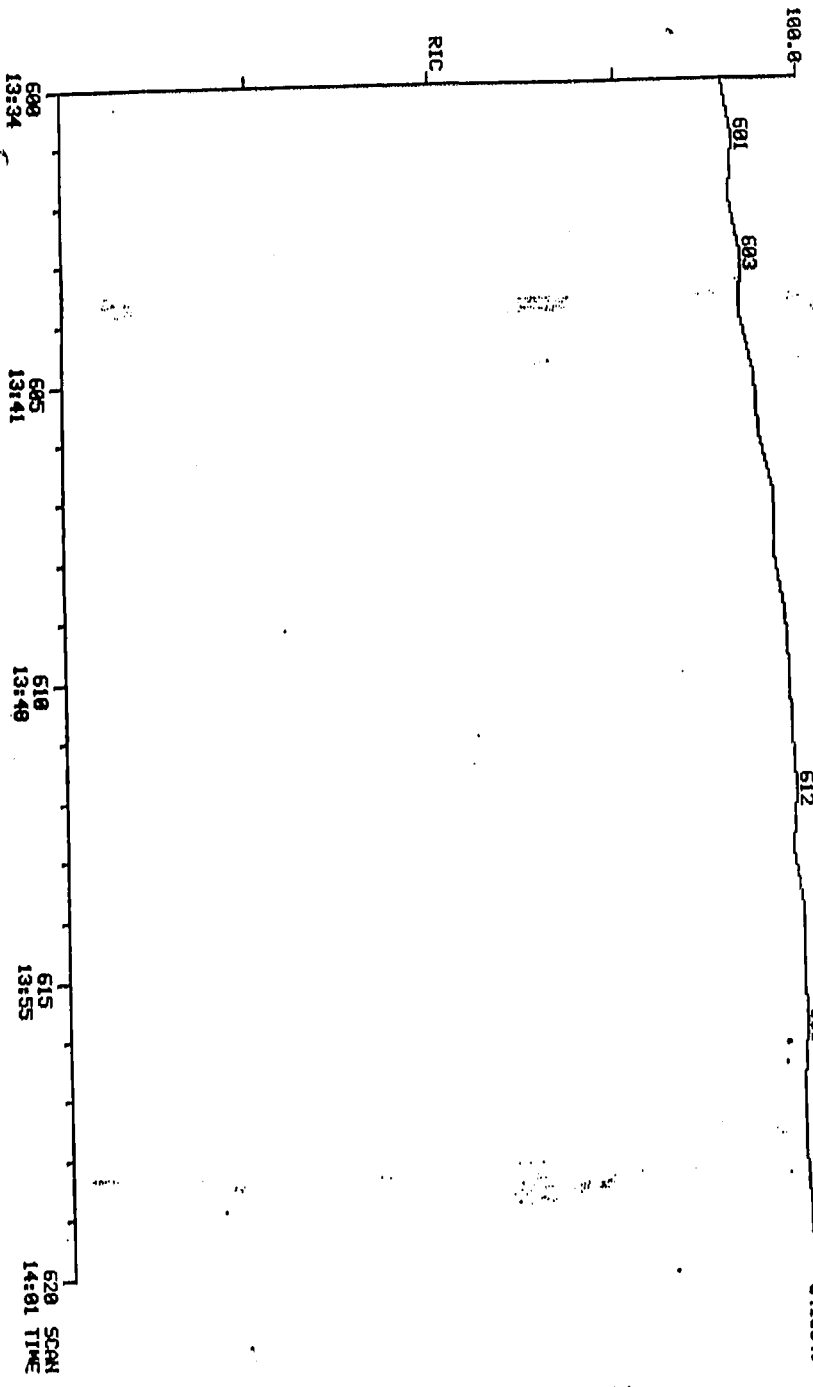
STD LOT 8988 (200 PC/ML)

DATA # 04

COMPUCHEN DATA: T1840213804 SCANS 600 TO 620

014062

005387



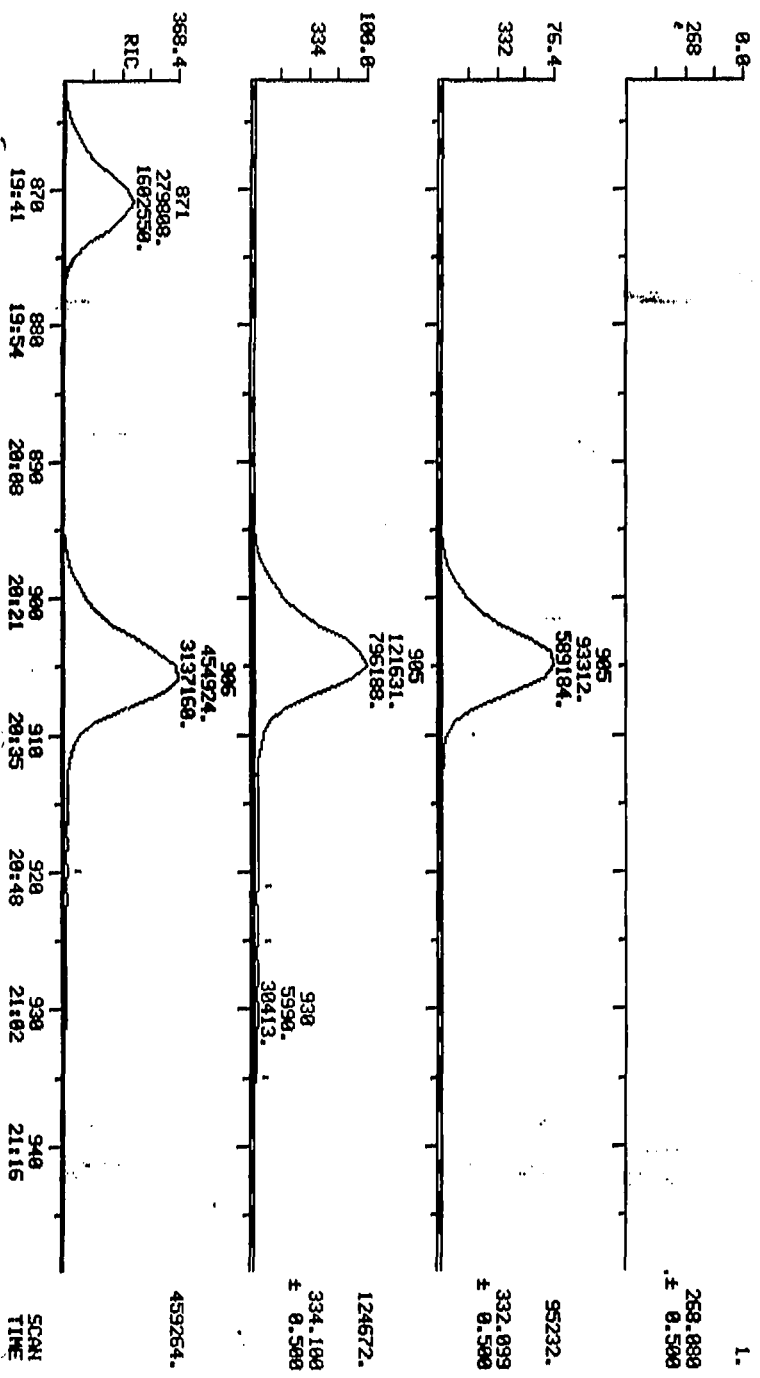
RIC + MASS CHROMATOGRAMS
 02/13/84 17:32:08
 SAMPLE: 2/50 UL NITZ STD LOT 8988 (200 PG/ML)
 #13C12-2,3,7,8-TCDD (INTERNAL STANDARD)

COMPUTED DATA: TR040213804 SCANS 862 TO 949

OMA # 04

014063

005388



268.880
 ± 0.500

95232.

332.899
 ± 0.500

124672.

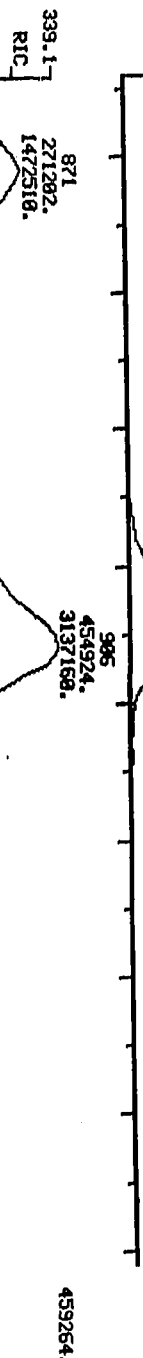
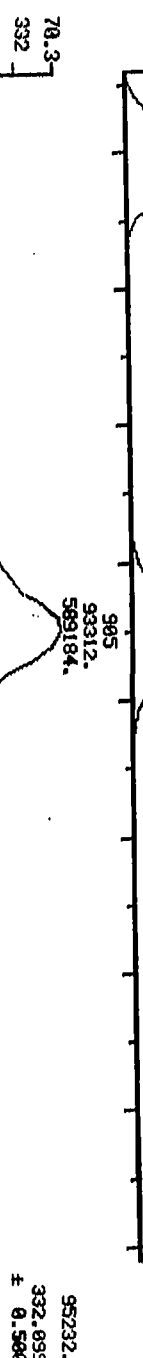
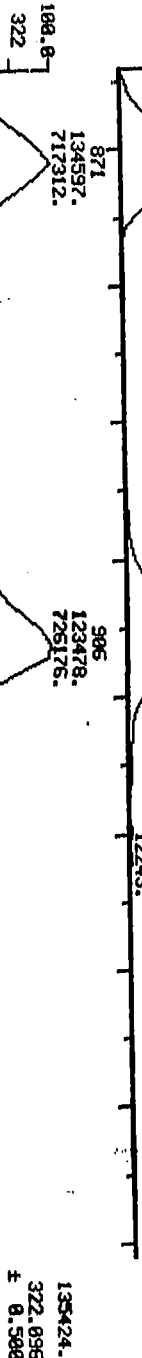
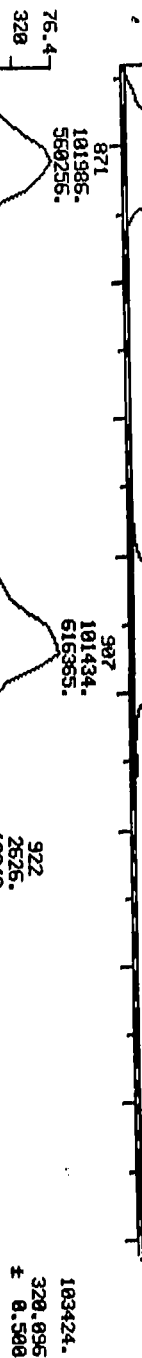
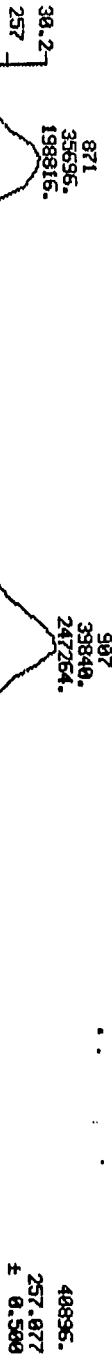
334.100
 ± 0.500

459264.

SCAN TIME

RIC + MASS CHROMATOGRAMS
 02/13/84 17:32:00
 SAMPLE: 2/50 UL MIZZ
 2.3.7.8-1000

STD LOT 8988 (200 PG/ML)
 COMPUTER DATA: T1840213804 SCANS 864 TO 951
 QM# 84



014064
 003300

2333

Mead ComputChem
GC/MS Analyze Log

Initial Time of Run 11:32
Time Time Elapsed 02:32

01406

Run Log

Press Hard, Multiple Copies

File Name :	Used	Not Used	Amount loaded	Operator	Tape No.	Disc. No.	01406	
							01	02
TS840213A04			2ul 8988	643		49	STD	
IT840213A04		✓	2ul 8988	643		49	STD	
TU840213A04			2ul 8988	643		49	STD	
BLANK.HHN			2ul Blank					
TS840213B04		✓	2ul 8988	615		49	STD	4988
TC019354B05		✓	2ul 8988	615		49	BLANK	
TC019354B05		✓	2ul	615		49	BLANK	
TC019354B05		✓	2ul	615		49	BLANK	
TC019558B06		✓	2ul	615		49	BLANK	
TC019441B05		✓	2ul	615		49		
TC019441B05		✓	2ul	615		49		
TC019441B05		✓	2ul	615		49		
TC019422B05		✓	2ul	615		49		
TC019434B05		✓	2ul	615		49		
TC019501C04		✓	2ul	615		49		
TC019507C04		✓	2ul	615		49		

11. 2. 14. 24

Head ComputChem
GC/MS Analysis Log

Initial Time of Tune 17:32
Time Tune Elapsed 8:32

Stripped (A) (B) (C)
Date 2/13/84 092
Analyte Type

Press Hard, Multiple Copies

Run No.	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
34	✓		2.01 8988	615		49	STD #8988
35		✓	2.01 8988	615		49	BLANK DMR RMR STD 17615
36		✓	2.01 8988	615		49	BLANK
37		✓	2.01 8988	615		49	BLANK
38		✓	2.01 8988	615		49	BLANK
39		✓	2.01 8988	615		49	BLANK
40		✓	2.01 8988	615		49	BLANK
41		✓	2.01 8988	615		49	BLANK
42		✓	2.01 8988	615		49	BLANK
43		✓	2.01 8988	615		49	BLANK
44		✓	2.01 8988	615		49	BLANK
45		✓	2.01 8988	615		49	BLANK
46		✓	2.01 8988	615		49	BLANK
47		✓	2.01 8988	615		49	BLANK
48		✓	2.01 8988	615		49	BLANK
49		✓	2.01 8988	615		49	BLANK
50		✓	2.01 8988	615		49	BLANK

Handwritten signature/initials

014066

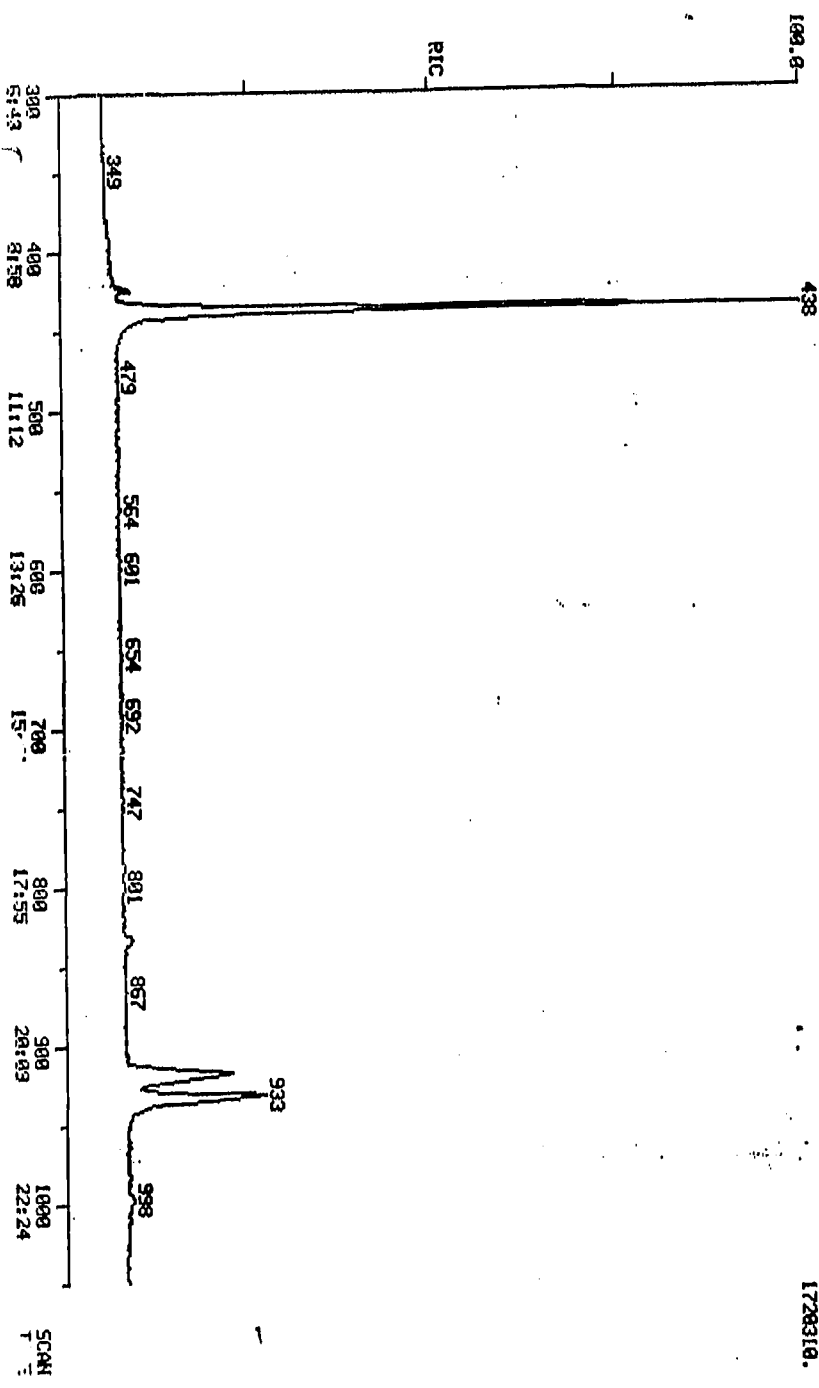
RIC
02/16/84 21:23:09
SAMPLE: 2/50 UL NIZZ
STD LOT 8988 (200 PG/ML)

COMPUCHEN DATA: T0940216003 SCANS 300 TO 1050

ORA # 03

1728310.

005302014067



PROCEDURE: RK
DATA FILE: TV840216003
REFERENCE: TC
METHOD: TC
REPORT: TCS

DIAGNOSTIC REPORT

2/16/84 3:24:43

INITIALIZATION OPTION: 3 PROCESSING OPTION: 3

< --- STANDARDS --- > --- PLUS UNKNOWN --- > - LIST NAMES - >
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
2 2 1 35 7 7 1 283 TCS/TCU

7 COMPOUNDS PROCESSED, 7 FOUND

< COMPOUND >		SEARCH						> SAT >		> CHRO >		
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	TC	1	-948	918	918	.	1	830	332	918	.	1
2	TC	2	-964	933	933	.	1	996	320	933	.	1
3	TC	3	-964	934	933	-1	1	996	322	933	.	1
4	TC	4	-964	934	933	-1	1	996	257	933	.	1
5	TC	5	-948	918	920	2	1	971	320	920	.	1
6	TC	6	-948	918	920	2	1	971	322	919	-1	1
7	TC	7	-948	918	919	1	1	966	257	920	1	1

014068

6 29 005298

QUANTITATION REPORT FILE: TVB40216C03

DATA: TVB40216C03.TI

02/16/84 2:23:00

SAMPLE: 2/50 UL MIZZ STD Lot 8988 (200 PG/ML)

OWA # 03

SUBMITTED BY: 03 ANALYST: 616

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

NO NAME
1 #13C12-2, 3, 7, 8-TCDD (INTERNAL STANDARD)
2 1, 2, 3, 4-TCDD
3 1, 2, 3, 4-TCDD
4 1, 2, 3, 4-TCDD
5 2, 3, 7, 8-TCDD
6 2, 3, 7, 8-TCDD
7 2, 3, 7, 8-TCDD

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	332	918	20:34	1	1.000	A BV	426792.	200.000 PG/UL	15.41
2	320	933	20:54	1	1.016	A VV	749744.	182.114 PG/UL	14.03
3	322	933	20:54	1	1.016	A VV	999029.	186.274 PG/UL	14.35
4	257	933	20:54	1	1.016	A VV	351481.	192.127 PG/UL	14.80
5	320	920	20:36	1	1.002	A BV	373156.	181.036 PG/UL	13.95
6	322	919	20:35	1	1.001	A BV	484893.	180.797 PG/UL	13.93
7	257	920	20:36	1	1.002	A BV	175047.	175.487 PG/UL	13.52

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	20:34	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	20:54	1.00	1.016	1.00	182.11	200.00	1.757	1.929	0.91
3	21:35	0.97	1.016	1.00	186.27	200.00	2.341	2.513	0.93
4	21:35	0.97	1.016	1.00	192.13	200.00	0.824	0.857	0.96
5	21:14	0.97	1.001	1.00	181.04	200.00	0.874	0.966	0.91
6	21:14	0.97	1.001	1.00	180.80	200.00	1.136	1.257	0.90
7	21:14	0.97	1.002	1.00	175.49	200.00	0.464	0.529	0.88

014069

6 28

005304

QUANTITATION REPORT FILE: TVB40216C03

DATA: TVB40216C03.TI

02/16/84 2:23:00

SAMPLE: 2/50 UL MIZZ

Std Lot 898B (200 PG/ML)

OWA # 03

REMITTED BY: 03

ANALYST: 616

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

NO NAME
1 *13C12-2,3,7,8-TCDD (INTERNAL STANDARD)
2 1,2,3,4-TCDD
3 1,2,3,4-TCDD
4 1,2,3,4-TCDD
5 2,3,7,8-TCDD
6 2,3,7,8-TCDD
7 2,3,7,8-TCDD

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	332	918	20:34	1	1.000	A BV	426792.	200.000 PG/UL	14.29
2	320	933	20:54	1	1.016	A VV	749744.	200.000 PG/UL	14.29
3	322	933	20:54	1	1.016	A VV	999029.	200.000 PG/UL	14.29
4	257	933	20:54	1	1.016	A VV	351481.	200.000 PG/UL	14.29
5	320	920	20:36	1	1.002	A BV	373156.	200.000 PG/UL	14.29
6	322	919	20:35	1	1.001	A BV	484893.	200.000 PG/UL	14.29
7	257	920	20:36	1	1.002	A BV	198049.	200.000 PG/UL	14.29

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	20:34	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	20:54	1.00	1.016	1.00	200.00	200.00	1.757	1.757	1.00
3	20:54	1.00	1.016	1.00	200.00	200.00	2.341	2.341	1.00
4	20:54	1.00	1.016	1.00	200.00	200.00	0.824	0.824	1.00
5	20:36	1.00	1.002	1.00	200.00	200.00	0.874	0.874	1.00
6	20:35	1.00	1.001	1.00	200.00	200.00	1.136	1.136	1.00
7	20:36	1.00	1.002	1.00	200.00	200.00	0.464	0.464	1.00

014070

11 29

003895

RIC
02/15/84 2:23:08
SAMPLE: 2/39 UL NIZZ STD LOT 8988 (200 PG/ML)

COMPUCHEN DATA: T0840216003 SCANS 600 TO 620
DMA # 03

100.0 601 605 609 613 615 618 136.071

600 13:25 605 13:33 610 13:40 615 13:46 620 SCAN 13:53 TIME

RIC

01071

12.29

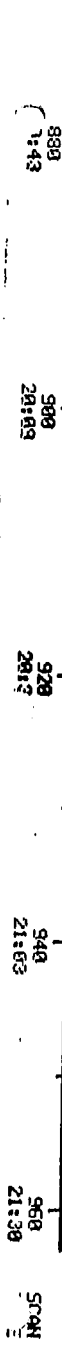
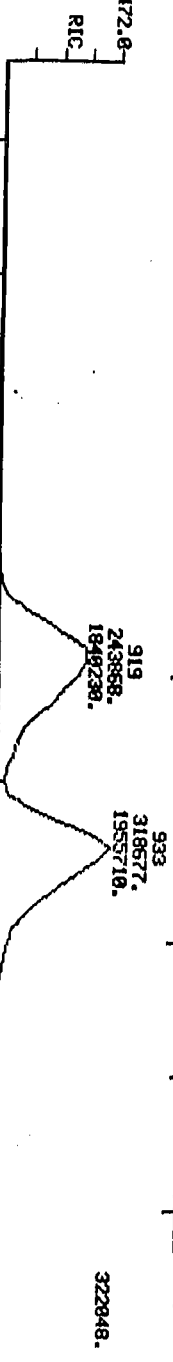
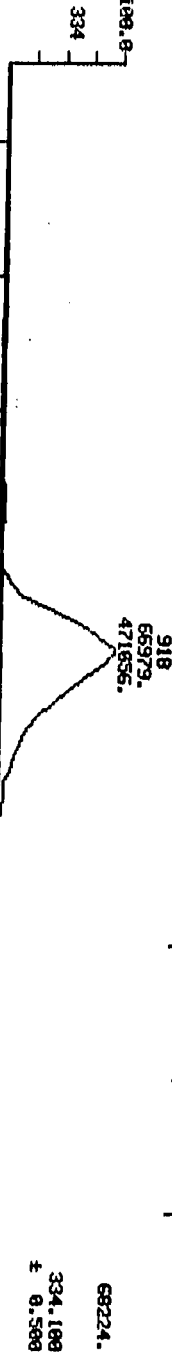
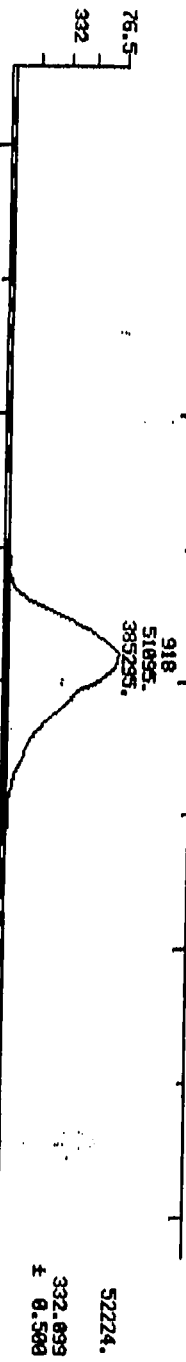
005396

RIC + MASS CHROMATOGRAMS
 92/15/84 21:23:08
 SAMPLE 2/50 U. NIZZ STD LOT 8988 (200 PC/ML)
 #13012-2,3,7,8-1000 (INTERNAL STANDARD)

COMPUCHEN DATA: T0840215003 SCANS 874 TO 963
 OK# 03

014072

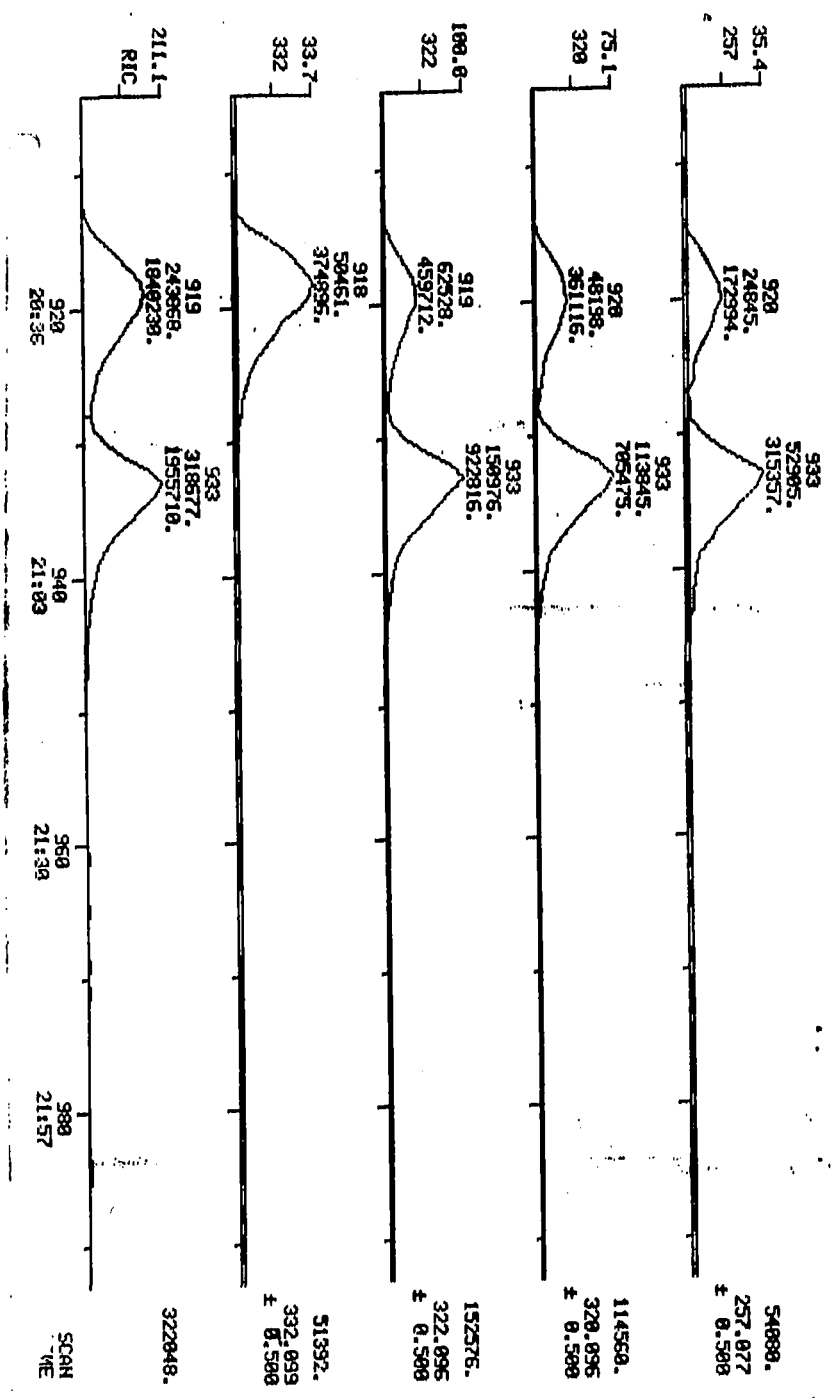
005397



RIC + MASS CHROMATOGRAMS
 02/16/84 21:23:00
 SAMPLE 2/50 UL NITZ STD LOT 8988 (200 PG/ML)
 2.3,7,8-TCDD

COMPUCHEN DATA: T1948216093 SCANS 984 TO 993
 OMA # 03

014073



**Mead CompuCham
GC/MS Analysis Log**

Press Hard, Multiple Copies

Initial Time of Run 2:23
Time Time Elapse 10:33

Station (A) 10-89
Date 10-89
Analyst Type TCDD (U29)

014075
0000

mg	me	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
		✓		2ul #8988	U19		35	STD.
		✓		2ul "	U19		35	"
		✓		2ul "	U19		35	"
		✓		2ul "	U19		35	"
		✓		2ul "	U19		35	"
		✓		2ul 19559	U19		35	HERNAN BLANK
		✓		2ul 19521	U19		35	
		✓		2ul 19581	74D		35	
		✓		2ul 19539	74D		35	

RIC
02/16/84 5:25:08
SAMPLE1 2/50 U.L. NIZZ
STD LOT 8988 (200P PG/ML)

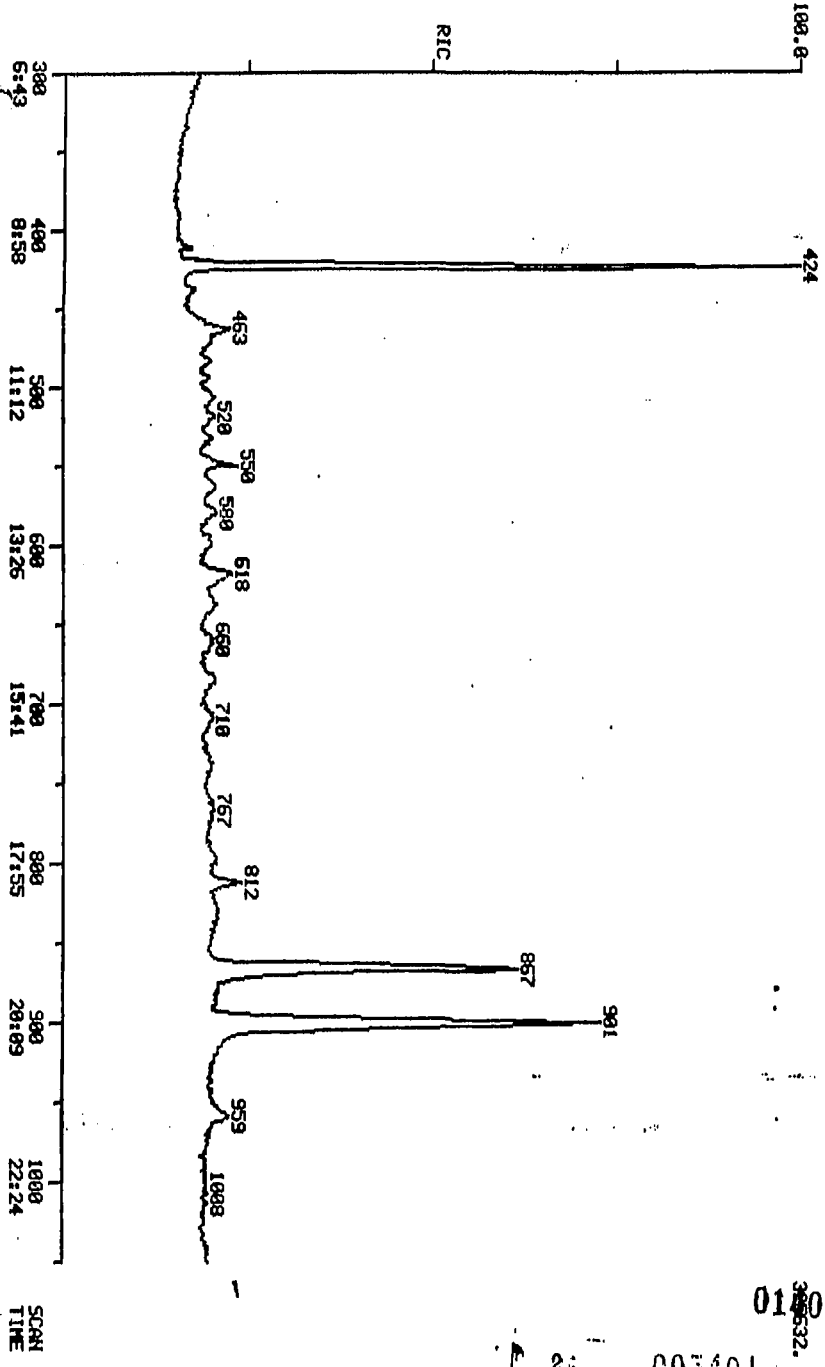
COMPUCHEN DATA: T5840216C04 SCANS 300 TO 1050

DATA # 04

010076

30532.

003401



PROCEDURE: RK
DATA FILE: T8840216C04
REFERENCE: TC
METHOD: TC
REPORT: TCS

DIAGNOSTIC REPORT

2/16/84 5:52:02

< --- STANDARDS --- > < --- PLUS UNKNOWN --- > < - LIST NAMES - >
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
2 2 2 141 7 7 1 39 TCS/TCU

7 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND		SEARCH						SAT		CHRO		
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	TC	1	-901	901	900	-1	2	832	332	900	.	1
2	TC	2	-866	866	867	1	1	991	320	867	.	1
3	TC	3	-866	867	867	.	1	991	322	866	-1	1
4	TC	4	-866	867	867	.	1	991	257	867	.	1
5	TC	5	-901	901	901	.	1	975	320	901	.	1
6	TC	6	-901	901	901	.	1	975	322	901	.	1
7	TC	7	-901	901	901	.	1	969	257	901	.	1

014077

005402

QUANTITATION REPORT FILE: TSB40216C04

DATA: TSB40216C04.TI

02/16/84 5:25:00

SAMPLE: 2/50 uL MIZZ Std Lot 8988 (200P pg/ml)

OWA # 04

SUBMITTED BY: 04

ANALYST: 619

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

- NO NAME
- 1 *13C12-2, 3, 7, 8-TCDD (INTERNAL STANDARD)
 - 2 1, 2, 3, 4-TCDD
 - 3 1, 2, 3, 4-TCDD
 - 4 1, 2, 3, 4-TCDD
 - 5 2, 3, 7, 8-TCDD
 - 6 2, 3, 7, 8-TCDD
 - 7 2, 3, 7, 8-TCDD

ML

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	332	900	20:09	1	1.000	A BB	258448.	200.000 PG/UL	14.29
2	320	867	19:25	1	0.963	A BB	287081.	200.000 PG/UL	14.29
3	322	866	19:24	1	0.962	A BB	365751.	200.000 PG/UL	14.29
4	257	867	19:25	1	0.963	A BB	154975.	200.000 PG/UL	14.29
5	320	901	20:11	1	1.001	A BB	216234.	200.000 PG/UL	14.29
6	322	901	20:11	1	1.001	A VV	281951.	200.000 PG/UL	14.29
7	257	901	20:11	1	1.001	A VV	119178.	200.000 PG/UL	14.29

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	20:09	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	19:25	1.00	0.963	1.00	200.00	200.00	1.111	1.111	1.00
3	19:24	1.00	0.962	1.00	200.00	200.00	1.415	1.415	1.00
4	19:25	1.00	0.963	1.00	200.00	200.00	0.600	0.600	1.00
5	20:11	1.00	1.001	1.00	200.00	200.00	0.837	0.837	1.00
6	20:11	1.00	1.001	1.00	200.00	200.00	1.091	1.091	1.00
7	20:11	1.00	1.001	1.00	200.00	200.00	0.461	0.461	1.00

014078

29

005408

QUANTITATION REPORT FILE: TSB40216004

DATA: TSB40216004.TI
02/16/84 5:25:00

SAMPLE: 2/50 uL MIZZ Std Lot. B988 (200F pg/ml)
SUBMITTED BY: 04 ANALYST: 619

OWA # 04

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

NO NAME
1 *13C12-2, 3, 7, 8-TCDD (INTERNAL STANDARD)
2 1, 2, 3, 4-TCDD
3 1, 2, 3, 4-TCDD
4 1, 2, 3, 4-TCDD
5 2, 3, 7, 8-TCDD
6 2, 3, 7, 8-TCDD
7 2, 3, 7, 8-TCDD

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	332	900	20:09	1	1.000	A BB	258448.	200.000 PG/UL	13.73
2	320	867	19:25	1	0.963	A BB	287081.	208.244 PG/UL	14.30
3	322	866	19:24	1	0.962	A BB	365751.	206.294 PG/UL	14.17
4	257	867	19:25	1	0.963	A BB	154975.	277.662 PG/UL	19.07
5	320	901	20:11	1	1.001	A BB	216234.	180.755 PG/UL	12.41
6	322	901	20:11	1	1.001	A VV	281951.	184.673 PG/UL	12.68
7	257	901	20:11	1	1.001	A VV	119178.	198.705 PG/UL	13.64

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	20:11	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	19:24	1.00	0.967	1.00	208.24	200.00	1.111	1.067	1.04
3	19:24	1.00	0.967	0.99	206.29	200.00	1.415	1.372	1.03
4	19:24	1.00	0.968	0.99	277.66	200.00	0.600	0.432	1.39
5	20:11	1.00	1.001	1.00	180.76	200.00	0.837	0.926	0.90
6	20:11	1.00	1.001	1.00	184.67	200.00	1.091	1.181	0.92
7	20:11	1.00	1.001	1.00	198.70	200.00	0.461	0.464	0.99

014079

29

005404

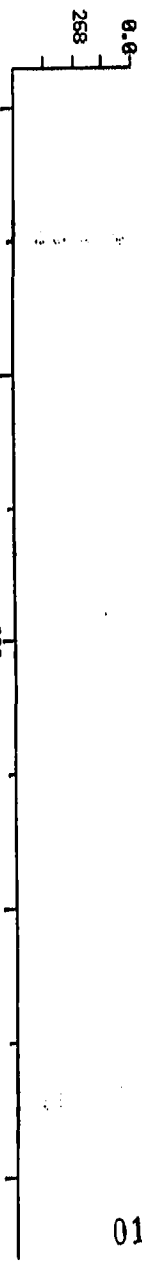
RIC + MASS CHROMATOGRAMS:
 02/16/84 5:25:08
 SAMPLE: 2/50 U. MITZ STD LOT 8988 (200P PG/ML)
 #13C12-2,3,7,8-TDD(INTERNAL STANDARD)

COMPUTED DATA: T5840215084 SCANS 857 TO 946
 OMA # 04

014080

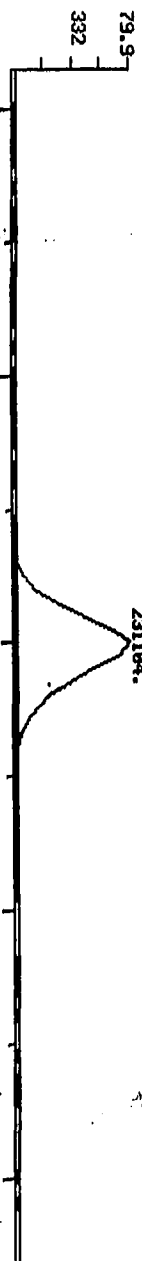
268.888
± 0.500

93



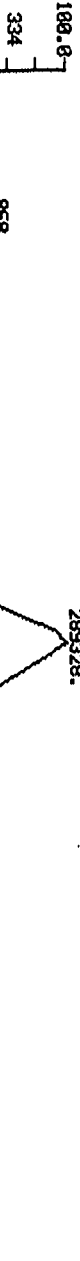
332.899
± 0.500

93



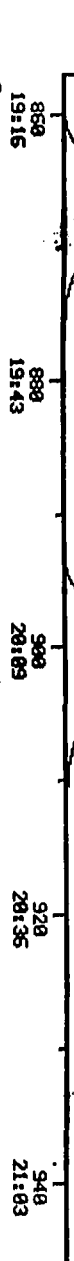
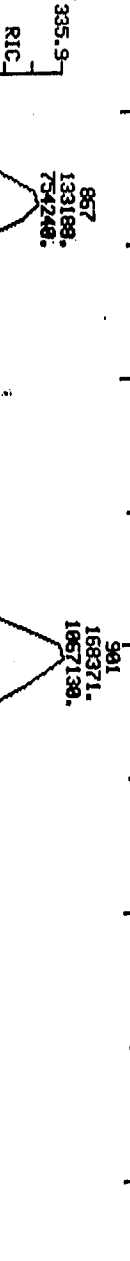
334.100
± 0.500

93



335.9

93



005405

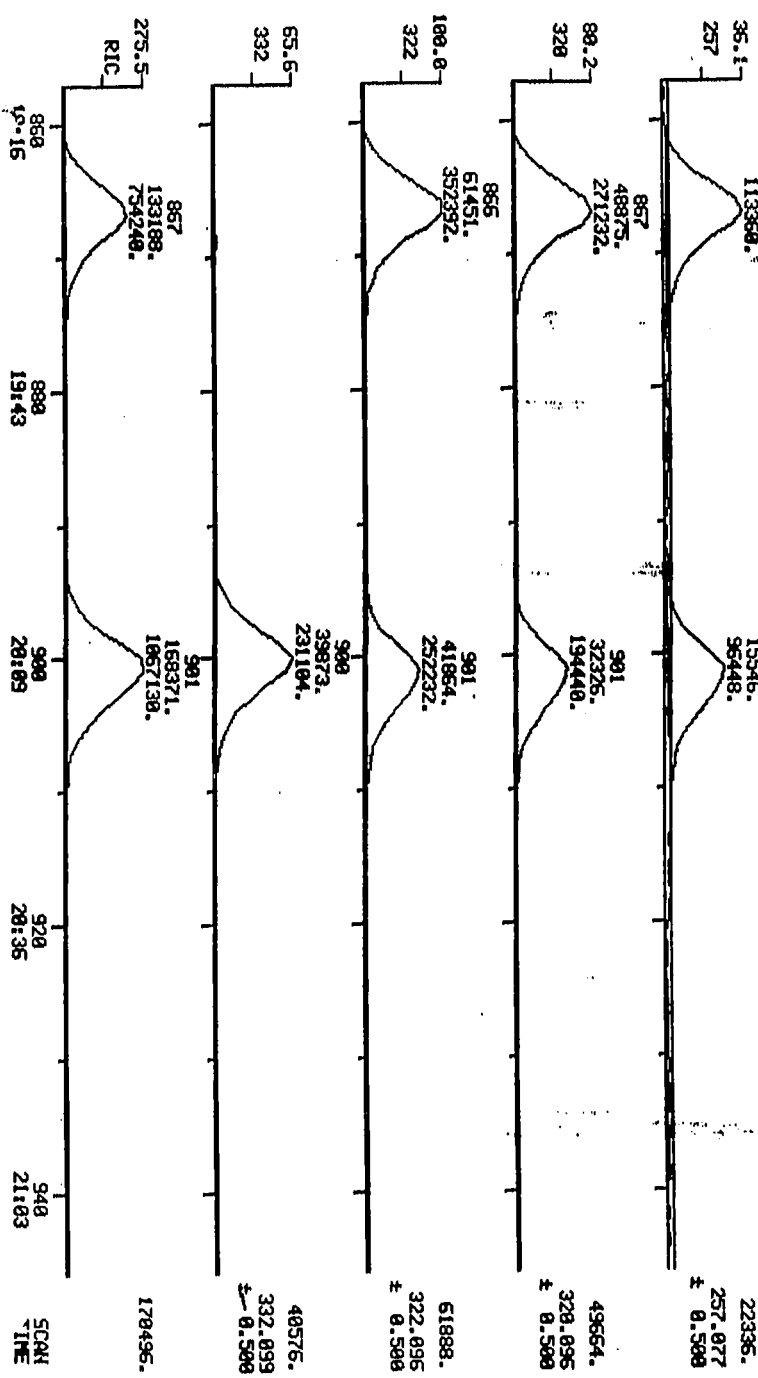
RIC + MASS CHROMATOGRAMS
 02/16/84 5:25:00
 SAMPLE: 2/50 UL MIZZ STD LOT 8988 (200P PG/ML)
 2,3,7,8-TCDD

COMPUCHEM DATA: T5840216C04 SCANS 857 TO 946

DATA # 04

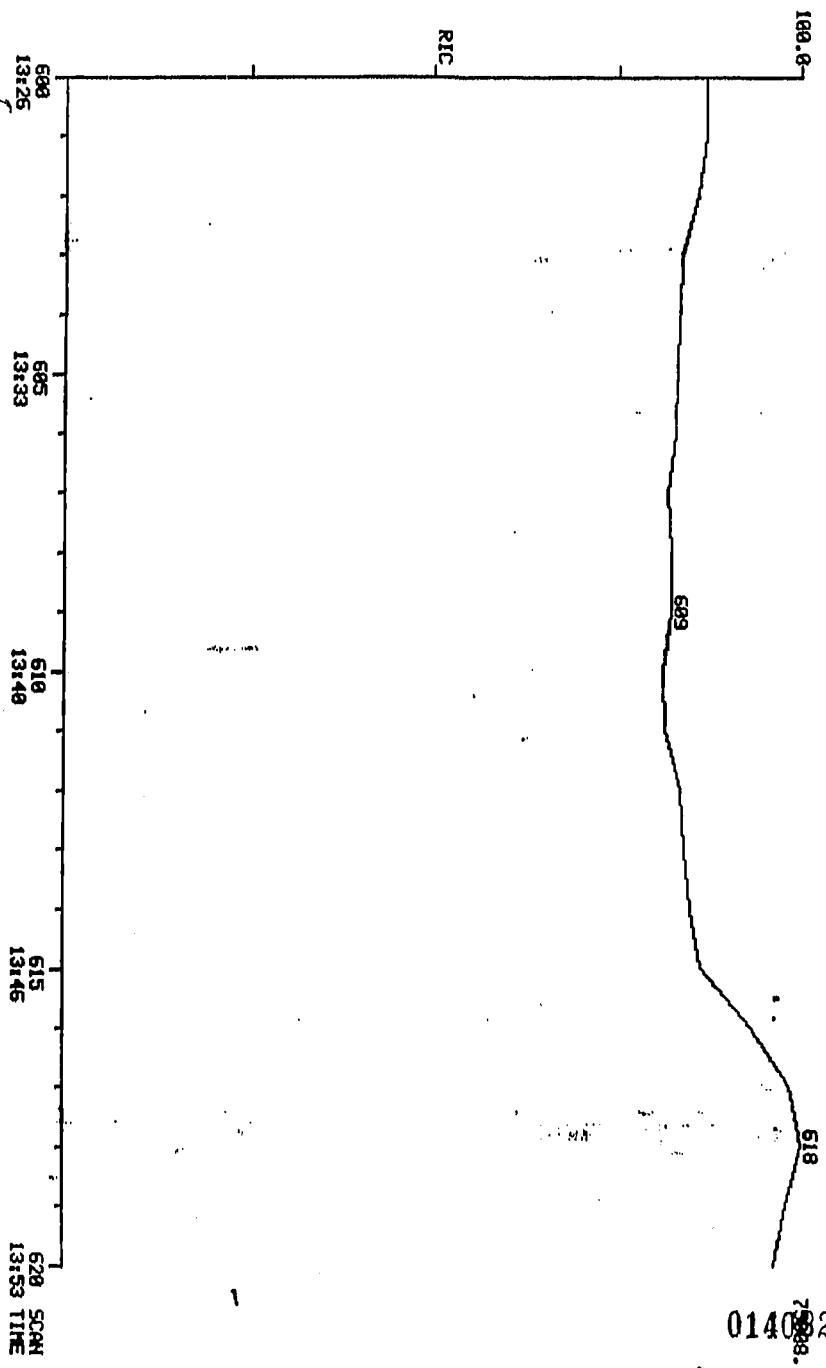
014081

005406



RIC
02/16/84 5:25:00
SAMPLE: 2/50 UL NIZZ

STD LOT 8988 (2000 PG/ML)
COMPUCHEN DATA: T5940216084 SCANS 600 TO 620
DATA # 04



2333

Mead CompuChem
GC/MS Analysis Log

Initial Time of Run 5:25
Time Time Elapse 19:35

S
D
A

Run Log

Press Here, Multiple Copies

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	SPYGLASS.COF	✓		2ul 4898	U19		42	805 CO
2	HEXALONK.COF	✓		2ul	U19		42	ST D OC
3	TC0195031.COF	✓		2ul 19505	U19		42	
4	TC0195182.COF	✓		2ul 19522	U19		42	
5	TR0196444.COF	✓		2ul 1964412	740		42	
6	TR0196446.COF	✓		2ul 1964612	740		42	
7	HEXBLANK.COF	✓		2ul Hexan	740		42	
8	B. OUT	✓		15 MIN				
9	TC01985804	✓		2ul 198585	740		42	
10	TR019648104	✓		2ul 19648	740		42	Blank
11	TC01983604	✓		2ul 19836	740		42	
12								
13								
14								
15								
16								
17								
18								
19								

AD

RIC
02/16/84 1:16:00
SAMPLE: ZULS TCOO STD 8988 ON 04/1/85

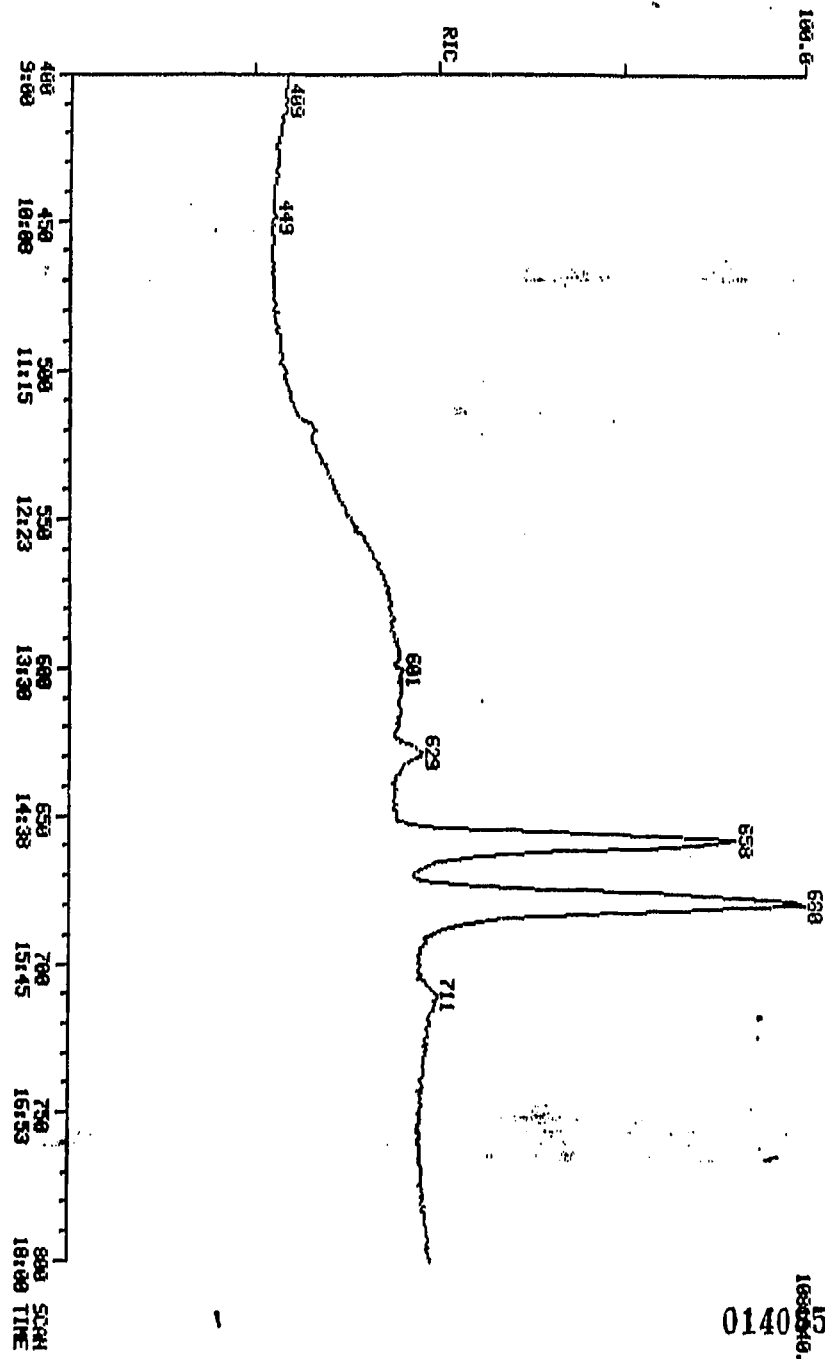
HEAD COMPUTER DATA: T1340216085

SCAN# 489 TO 688

1085046.

01405

005410



488 9:00
458 10:00
508 11:15
538 12:23
608 13:30
658 14:38
708 15:45
758 16:53
808 18:00
SCAN TIME

PROCEDURE: RK
DATA FILE: TT840216005
REFERENCE: TC
METHOD: TC
REPORT: TCS

DIAGNOSTIC REPORT

2/16/84 1:36:4

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- > < ---- PLUS UNKNOWN ---- > < - LIST NAMES - >
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
2 2 4 137 7 7 1 254 TCS/TCU

7 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND		SEARCH						SAT		CHRO		
NO	LIB ENTRY	REF	PREI	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAK
1	TC	1	-676	678	679	1	2	832	332	679	.	.
2	TC	2	-657	659	658	-1	2	989	320	659	1	.
3	TC	3	-657	659	658	-1	1	989	322	658	.	.
4	TC	4	-657	659	658	-1	1	989	257	659	1	.
5	TC	5	-677	679	680	1	1	963	320	680	.	.
6	TC	6	-677	679	680	1	1	963	322	680	.	.
7	TC	7	-677	679	680	1	1	971	257	680	.	.

014086

16 28

005411

MEAD COMPUCHEM
 QUANTITATION REPORT FILE: TT840216C05

DATA: TT840216C05.TI
 02/16/84 1:16:00
 SAMPLE: 24LS TCDD STD 8988 ON 0WAW05
 SUBMITTED BY: 05 ANALYST: 619

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

- NO. NAME
- 1 *13C12-2, 3, 7, 8-TCDD (INTERNAL STANDARD)
 - 2 1, 2, 3, 4-TCDD
 - 3 1, 2, 3, 4-TCDD
 - 4 1, 2, 3, 4-TCDD
 - 5 2, 3, 7, 8-TCDD
 - 6 2, 3, 7, 8-TCDD
 - 7 2, 3, 7, 8-TCDD
- Am H
2-16-84*

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	332	679	15:17	1	1.000	A BB	917290.	200.000	PG/UL 13.76
2	320	659	14:50	1	0.971	A BV	1181010.	211.639	PG/UL 14.56
3	322	658	14:49	1	0.969	A BV	1525050.	215.493	PG/UL 14.82
4	257	659	14:50	1	0.971	A BV	711700.	226.436	PG/UL 15.58
5	320	680	15:18	1	1.001	A VB	912188.	196.475	PG/UL 13.52
6	322	680	15:18	1	1.001	A VV	1162570.	194.742	PG/UL 13.40
7	257	680	15:18	1	1.001	A VB	642530.	208.886	PG/UL 14.37

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	15:18	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	14:50	1.00	0.969	1.00	211.64	200.00	1.288	1.217	1.06
3	14:50	1.00	0.969	1.00	215.49	200.00	1.663	1.543	1.08
4	14:51	1.00	0.971	1.00	226.44	200.00	0.776	0.685	1.13
5	15:18	1.00	1.000	1.00	196.48	200.00	0.994	1.012	0.97
6	15:18	1.00	1.000	1.00	194.74	200.00	1.267	1.302	0.98
7	15:18	1.00	1.000	1.00	208.89	200.00	0.700	0.671	1.04

014087

25

005412

MEAD COMPUCHEM
 QUANTITATION REPORT FILE: TT840216C05

DATA: TT840216C05.TI
 02/16/84 1:16:00
 SAMPLE: 2ULS TCDD STD B988 ON OWA#05
 SUBMITTED BY: 05 ANALYST: 619

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

NO NAME
 1 2,3,7,8-TCDD (INTERNAL STANDARD)
 2 1,2,3,4-TCDD
 3 1,2,3,4-TCDD
 4 1,2,3,4-TCDD
 5 2,3,7,8-TCDD
 6 2,3,7,8-TCDD
 7 2,3,7,8-TCDD

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	332	679	15:17	1	1.000	A BE	917290.	200.000	PG/UL 14.29
2	320	659	14:50	1	0.971	A BV	1181010.	200.000	PG/UL 14.29
3	322	658	14:49	1	0.969	A BV	1325050.	200.000	PG/UL 14.29
4	257	659	14:50	1	0.971	A BV	711700.	200.000	PG/UL 14.29
5	320	680	15:18	1	1.001	A VE	912188.	200.000	PG/UL 14.29
6	322	680	15:18	1	1.001	A VV	1162570.	200.000	PG/UL 14.29
7	257	680	15:18	1	1.001	A VE	642530.	200.000	PG/UL 14.29

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	15:17	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	14:50	1.00	0.971	1.00	200.00	200.00	1.288	1.288	1.00
3	14:49	1.00	0.969	1.00	200.00	200.00	1.663	1.663	1.00
4	14:50	1.00	0.971	1.00	200.00	200.00	0.776	0.776	1.00
5	15:18	1.00	1.001	1.00	200.00	200.00	0.994	0.994	1.00
6	15:18	1.00	1.001	1.00	200.00	200.00	1.267	1.267	1.00
7	15:18	1.00	1.001	1.00	200.00	200.00	0.700	0.700	1.00

014088

005413

HEAD CURFUCHER DATA: T1840218006 SCANS 758 TO 778
RIC 82/15/84 1:16:08
SAMPLEL 2ULS 1000 STD 8988 ON 044105

199.0
752
759
764
767
01089
518656.

RIC

758 16:53
759 17:09
768 17:06
765 17:13
778 SCAN 17:20 TIME

005414

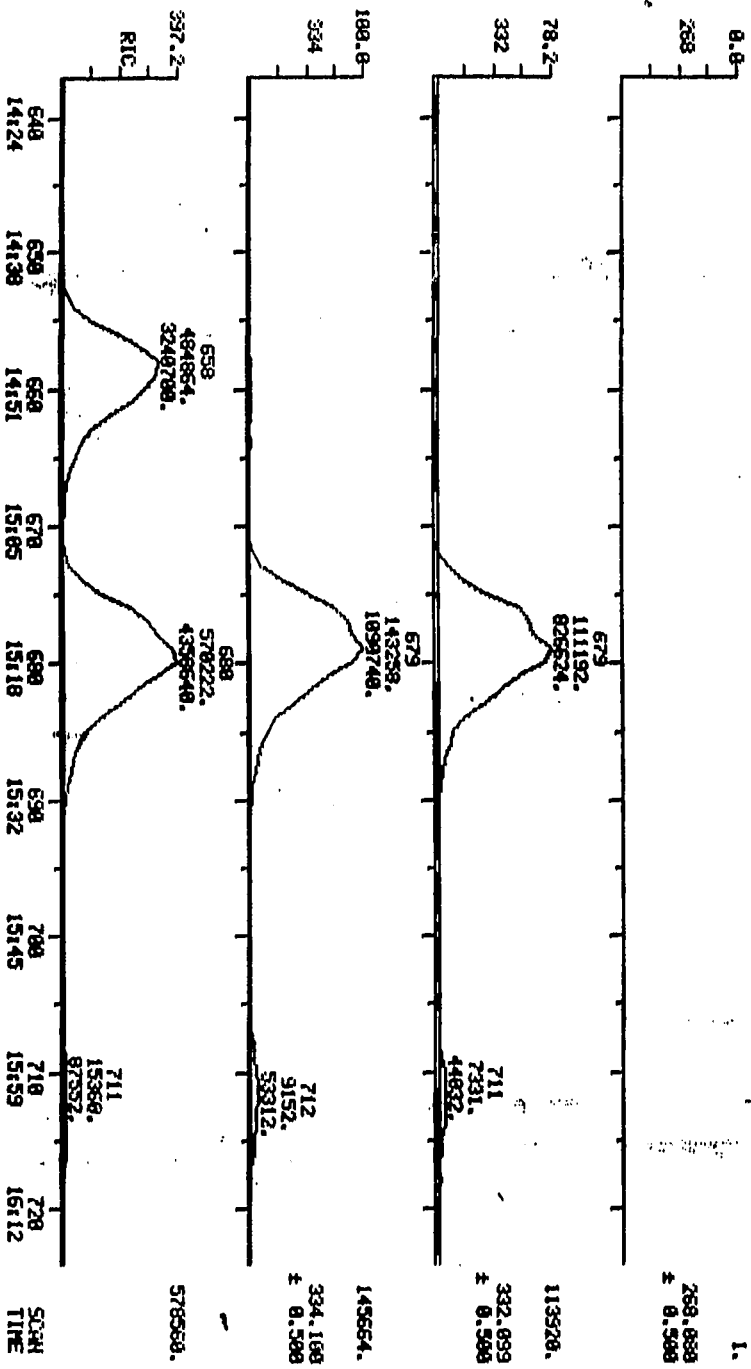
89

RIC + NUSS CROKETTUCKERS
 02/16/84 1:16:00
 SAMPLE: ZULS TCS3 STD 8988 ON 044185
 #13C12-2.3.7.8-T000(INTERNAL STANDARD)

HEAD COMPONENT DATA: T1340218085

SCANS 637 TO 724

014090
 005415

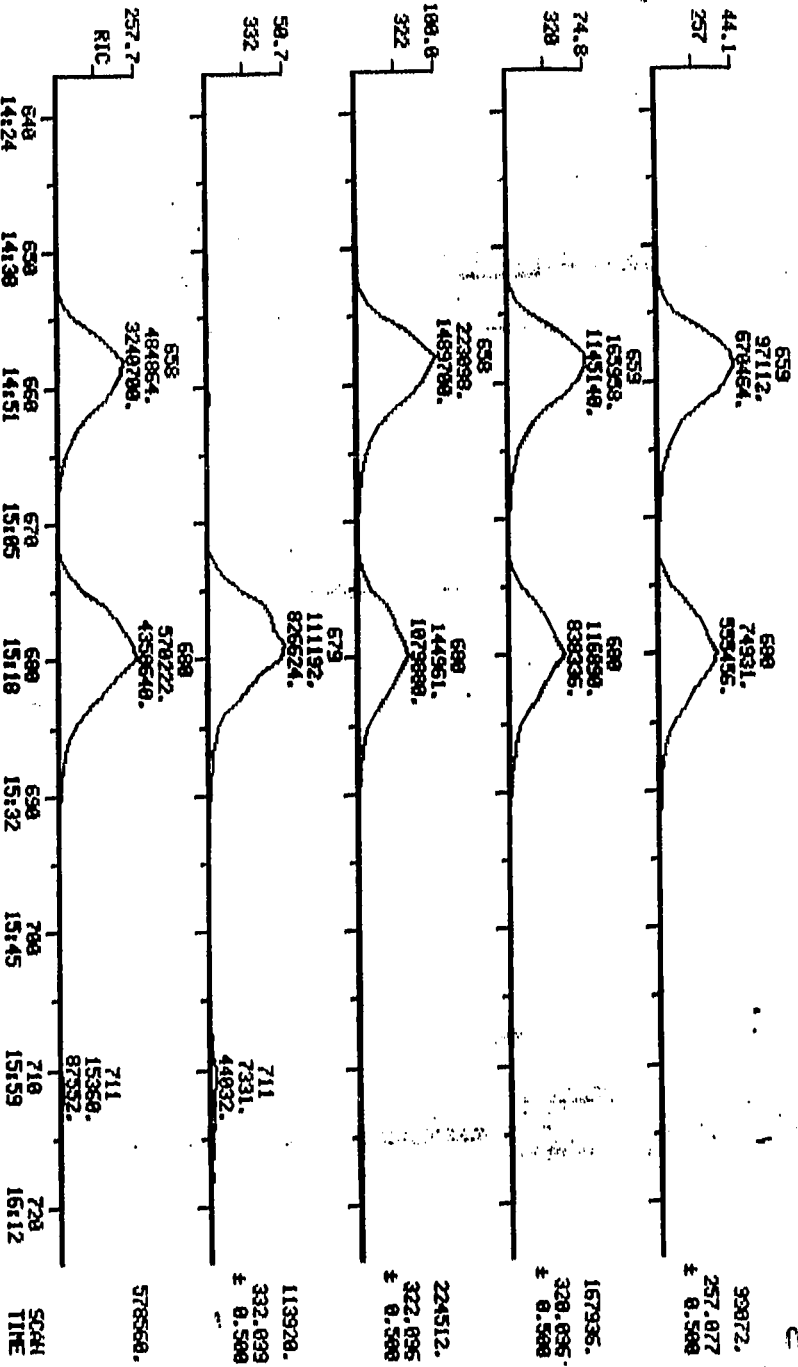


RIC + MASS CHROMATOGRAMS
 82/16/84 1:15:00
 SAMPLE 2UL5 TCOO STD 8988 ON QUARUS
 2.3.7.8-1000

HEAD COMPUSER

DATE: TT340218085

SCANS 637 TO 724



014091
 003416

52

SC#41
 TIME

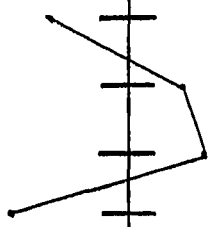
METHOD Volatile #18
 I. STD ISA

PAGE #

(2216/2)

DEVIATION FROM MEAN

(+100%)
 0
 (-50%)



(1108/26)

(55403)

RUN NO.	DATE
1	1/30/84
2	1/30/84
3	1/30/84
4	2/3/84
5	
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11	
12	
13	
14	
15	

014093

1-8 29

005418

Volatile

Case 2333

19558 130A18

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31		
32		01409
33		
	10.29	11:50 AM

Mead ComputChem GC/MS Analysis Log

Initial Time of Turn 1:10 Shift(s) (A) 2-16-84 (B) 1
 Time Turn Elapsed 9:10 Date 2-16-84
 Analysts Type TRDD COG

01409

Log	Press Held, Multiple Copies	Sample	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
			✓		2ul # 8988	U19		53	STD
			✓		2ul "	U19		53	"
			✓		2ul	U19		53	HEXANE BLANK
		2333	✓		2ul 19553	U19		53	
		2348	✓		2ul 19554	U19		53	
		2333	✓		2ul 19556	U19		53	
		2341	✓		2ul 19557	U19		53	
		2341	✓		2ul 19560	U19		53	
		2351	✓		2ul 19562	U19		53	
		2368	✓		2ul 19575	U19		53	
		2362	✓		2ul 20513	U19		53	
		238	✓		2ul 18883	U19		53	
		2351	✓						

E. GC/MS Environment Data (VOA)

This section includes Internal Standard Response Verification Control Charts (as required in Exhibit B, page 40 of 42, Form XI); Internal Standard Response Verification Report (as required in Exhibit B, page 29 of 42, Form VIII); Initial Calibration Data (as required in Exhibit B, page 32 of 42, Form IX); and Calibration Check Data (as required in Exhibit B, page 37 of 42, Form X). Note that since CompuChem has previously documented interferences with two of the volatile internal standards, only bromochloromethane is used for quantitations. Consequently, only this internal standard's response is plotted on control charts. CompuChem uses computer-generated forms which are similar in format to those specified in the contract.

E

014096

10 29

005421

Internal Standard Response Verification Data Sheet

PAGE 1

Case No. _____ Contractor CompuChem Contract No. _____

Instrument I.D. DNA #18 Q.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT					
6UR40130B18	013084	103669	1.000	103669	1.000	103669	1.000							1.000	1.000			
6SB40130A18	013084	113521	1.000	113521	1.000	113521	1.000							1.000	1.000			
6TB40130A18	013084	115228	1.000	115228	1.000	115228	1.000							1.000	1.000			
6H019558A18	020384	60558	.467	29909	.837	63598	1.000							2.292	.470			

R1 = (Resp ISA/Resp ISB)
 R2 = (Resp ISB/Resp ISC)
 R3 = (Resp ISC/Resp ISD)
 R4 = (Resp ISD/Resp ISE)
 R5 = (Resp ISE/Resp ISF)

014097
 005422

Case No. _____ Contractor CompuChem Contract No. _____Instrument Identifier DWA #10 Calibration Date - 01/30/84

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
METHYL CHLORIDE	0.234	0.745	0.505	0.709	0.653	*
METHYL BROMIDE	0.374	2.055	1.659	2.066	1.927	
VINYL CHLORIDE	0.457	2.130	1.777	2.202	2.037	
CHLOROETHANE	0.565	0.467	0.357	0.485	0.436	
METHYLENE CHLORIDE	0.745	1.337	2.172	0.901	1.470	
TRICHLOROFLUOROMETHANE	0.921	1.684	1.485	1.637	1.602	
1,1-DICHLOROETHYLENE	0.974	0.869	0.673	0.840	0.794	
1,1-DICHLOROETHANE	1.079	0.435	0.301	0.397	0.378	*
1,2-TRANS-DICHLOROETHYLENE	1.140	0.971	0.722	0.898	0.863	
CHLOROFORM	1.179	1.877	1.377	1.736	1.663	
1,2-DICHLOROETHANE	1.245	1.149	0.882	1.119	1.050	
1,1,1-TRICHLOROETHANE	1.365	1.431	1.077	1.309	1.272	
CARBON TETRACHLORIDE	1.397	1.501	1.180	1.432	1.371	
DICHLOROBROMOMETHANE	1.428	0.191	0.147	0.181	0.173	
1,2-DICHLOROPROPANE	1.558	0.271	0.195	0.256	0.241	
TRANS-1,3-DICHLOROPROPYLENE	1.574	1.615	1.207	1.570	1.464	
TRICHLOROETHYLENE	1.622	1.316	1.021	1.196	1.178	
CHLORODIBROMOMETHANE	1.671	1.427	1.130	1.421	1.326	
BENZENE	1.677	2.505	1.905	2.443	2.284	
1,1,2-TRICHLOROETHANE	1.681	1.006	0.780	0.984	0.924	
CIS-1,3-DICHLOROPROPYLENE	1.686	0.820	0.604	0.820	0.748	
2-CHLOROETHYL VINYL ETHER	1.780	0.434	0.298	0.523	0.419	*
BROMOFORM	1.904	1.441	1.204	1.477	1.374	*
1,1,2,2-TETRACHLOROETHANE	2.109	1.805	1.371	1.778	1.652	*
TETRACHLOROETHYLENE	2.115	1.270	1.017	1.142	1.143	
TOLUENE	2.253	1.798	1.369	1.614	1.594	
CHLOROBENZENE	2.384	2.490	1.906	2.217	2.204	*
ETHYLBENZENE	2.655	1.237	0.937	1.081	1.085	
ACETONE (2-PROPANONE)	0.793	0.079	0.073	0.064	0.072	
2-BUTANONE	1.240	0.113	0.113	0.089	0.105	
CARBON DISULFIDE	0.879	3.777	2.256	2.976	3.003	
2-HEXANONE	2.092	0.466	0.392	0.301	0.386	
4-METHYL-2-PENTANONE	1.956	0.508	0.460	0.348	0.438	
STYRENE	3.262	2.826	1.741	1.980	2.182	
VINYL ACETATE	1.402	1.522	0.896	1.197	1.205	
O-XYLENE	3.454	1.770	1.113	1.231	1.371	

014098

Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (those compounds flagged with an *)

005423

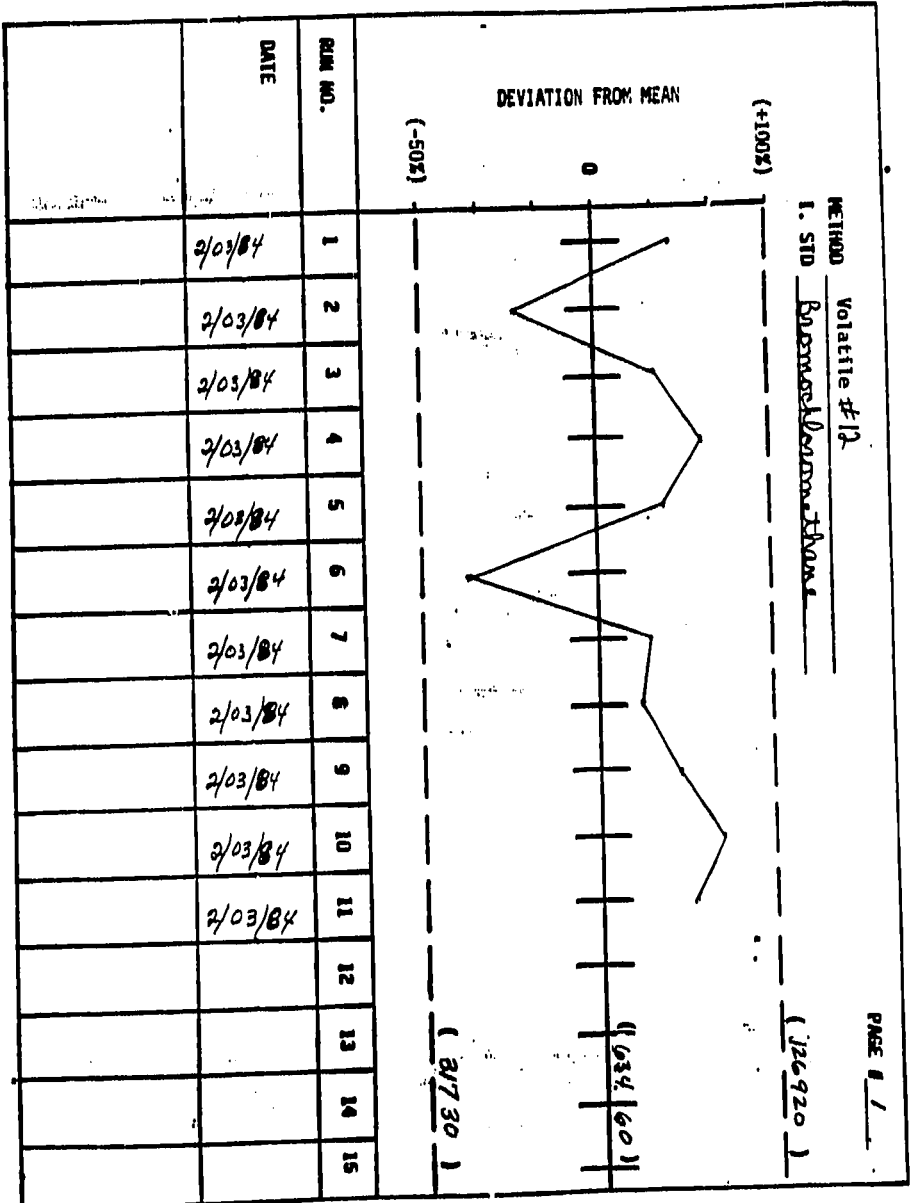
Calibration Check Report - Volatile HSL Compounds

Case No. _____ Contractor CompuChem Contract No. _____
 Instrument Identifier DWA #18 Calibration Date 01/30/84
 Standard File GS840203C18 Date 02/03/84 Time 03:26
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.300

Compound	Avg RF	RF	ZD	CCC	SPCC
METHYL CHLORIDE	0.653	0.432	-40.730		**
METHYL BROMIDE	1.927	1.694	-12.860		
VINYL CHLORIDE	2.036	1.700	-17.520	*	
CHLOROETHANE	0.436	0.313	-32.840		
METHYLENE CHLORIDE	1.470	0.679	-73.610		
TRICHLOROFLUOROMETHANE	1.602	1.595	-0.430		
1,1-DICHLOROETHYLENE	0.794	0.700	-11.450	*	
1,1-DICHLOROETHANE	0.378	0.311	-19.440		**
1,2-TRANS-DICHLOROETHYLENE	0.864	0.780	-10.210		
CHLOROFORM	1.663	1.519	-9.050	*	
1,2-DICHLOROETHANE	1.050	0.996	-5.270		
1,1,1-TRICHLOROETHANE	1.272	1.241	-2.460		
CARBON TETRACHLORIDE	1.371	1.480	7.640		
DICHLOROBROMOMETHANE	0.173	0.191	9.890	*	
1,2-DICHLOROPROPANE	0.241	0.211	-13.270		
TRANS-1,3-DICHLOROPROPYLENE	1.464	1.404	-4.180		
TRICHLOROETHYLENE	1.178	1.266	7.200		
CHLORO-DIBROMOMETHANE	1.326	1.555	15.890		
BENZENE	2.284	2.241	-1.900		
1,1,2-TRICHLOROETHANE	0.924	0.988	6.690		
CIS-1,3-DICHLOROPROPYLENE	0.748	0.749	0.130		
γ-CHLOROETHYL VINYL ETHER	0.418	0.315	-28.100		**
BROMOFORM	1.374	1.706	21.550		**
1,1,2,2-TETRACHLOROETHANE	1.651	1.671	1.200		**
TETRACHLOROETHYLENE	1.143	1.319	14.290		
TOLUENE	1.594	1.552	-2.670	*	
CHLOROBENZENE	2.204	2.294	4.000		**
ETHYLBENZENE	1.085	1.109	2.180		
ACETONE (2-PROPANONE)	0.072	0.058	-21.530		
2-BUTANONE	0.105	0.095	-10.000		
CARBON DISULFIDE	3.003	2.819	-6.320		
2-HEXANONE	0.386	0.337	-13.550		
4-METHYL-2-PENTANONE	0.439	0.420	-4.420		
STYRENE	2.182	2.323	6.250		
VINYL ACETATE	1.205	1.025	-16.140		
D-XYLENE	1.371	1.457	6.080		

Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 - Percent Difference
 CCC - Calibration Check Compounds (those compounds flagged with an *)
 SPCC - System Performance Check Compounds (those compounds flagged with **)

911400.21



014101

005426

Internal Standard Response Verification Data Sheet

FA22

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

Instrument I.D. DNA-110 S.C. Report No. _____

Sample/Run	Date	ISA		ISS		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5	
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT						
HUB-0203012	020384	67834	1.000	67834	1.000	67834	1.000							1.000	1.000				
68240203012	020384	56753	1.000	56753	1.000	56753	1.000							1.000	1.000				
67840203012	020384	65793	1.000	65793	1.000	65793	1.000							1.000	1.000				
68540203012	020384	72153	1.000	72153	1.000	72153	1.000							1.000	1.000				
6H019559A12	020384	67214	.428	55465	.827	155815	1.000							1.212	.334				
6H019560A12	020384	48001	1.000	46001	1.300	48001	1.000							1.000	1.000				
DN19570512	020384	65958	1.000	65958	1.000	65958	1.000							1.000	1.000				
DN19577512	020384	65958	1.000	65958	1.000	65958	1.000							1.000	1.000				
6H019576512	020384	67274	.470	56451	.825	137972	1.000							1.154	.405				
6H019581512	020384	70155	.450	61150	.657	152270	1.000							1.175	.401				
6H019582512	020384	71964	.430	59325	.825	144455	1.000							1.206	.350				

R1 = (Resp: ISA/Resp: ISS)
 R2 = (Resp: ISS/Resp: ISD)
 R3 = (Resp: ISC/Resp: ISD)
 R4 = (Resp: ISD/Resp: ISE)
 R5 = (Resp: ISE/Resp: ISF)

014102

Case No. _____ Contractor CospuChee Contract No. 68-D1-6866
 Instrument Identifier DNA #12 Calibration Date - 02/01/84

Minimum Avg RF for SPCC is 0.050
3

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
METHYL CHLORIDE	0.186	0.257	1.047	0.902	0.884	*
METHYL BROMIDE	0.285	1.272	1.999	1.757	1.676	
VINYL CHLORIDE	0.353	0.941	1.504	1.295	1.247	
CHLOROETHANE	0.461	0.536	0.906	0.701	0.681	
METHYLENE CHLORIDE	0.560	1.444	1.536	1.252	1.411	
TRICHLOROFLUOROMETHANE	0.652	1.672	2.450	2.086	2.663	
1,1-DICHLOROETHYLENE	0.752	1.107	1.250	1.111	1.154	
1,1-DICHLOROMETHANE	1.053	0.842	0.721	0.630	0.664	*
1,2-TRANS-DICHLOROETHYLENE	1.152	1.301	1.444	1.274	1.249	
CHLOROFORM	1.252	2.309	2.641	2.280	2.417	
1,2-DICHLOROETHANE	1.352	1.107	1.497	1.311	1.417	
1,1,1-TRICHLOROETHANE	1.417	1.767	1.952	1.711	1.819	
CARBON TETRACHLORIDE	1.452	1.654	1.874	1.701	1.754	
DICHLOROBROMOMETHANE	1.501	0.187	0.219	0.182	0.192	
1,2-DICHLOROETHANE	1.642	0.520	0.632	0.511	0.544	
TRANS-1,2-DICHLOROETHYLENE	1.652	2.575	2.640	2.521	2.763	
TRICHLOROETHYLENE	1.720	1.464	1.723	1.530	1.573	
CHLORODIBROMOMETHANE	1.752	1.425	1.685	1.592	1.627	
BENZENE	1.777	2.627	4.827	2.921	4.104	
1,1,2-TRICHLOROETHANE	1.794	1.471	1.541	1.514	1.604	
DIS-1,3-DICHLOROPROPYLENE	1.791	1.111	1.450	1.233	1.315	ok
2-CHLOROETHYL VINYL ETHER	1.817	0.499	0.312	0.441	0.461	*
BROMOFORM	2.051	1.105	1.740	1.351	1.462	*
1,1,2,2-TETRACHLOROETHANE	2.071	2.091	2.827	2.072	2.291	*
TETRACHLOROETHYLENE	2.091	1.021	1.571	1.421	1.440	
TOLUENE	2.421	2.621	2.827	2.781	2.991	
CHLOROBENZENE	2.551	2.712	4.122	3.472	3.741	*
ETHYLBENZENE	2.611	1.911	1.921	1.651	1.811	
ACETONE (2-PROPANONE)	0.732	0.099	0.121	0.111	0.114	
2-BUTANONE	1.121	1.171	0.211	0.191	0.192	
CARBON DISULFIDE	3.524	2.111	2.201	2.021	2.281	
2-HEXANONE	2.241	0.621	0.954	0.810	0.864	
4-METHYL-2-PENTANONE	2.124	0.978	1.204	0.990	1.057	
STYRENE	3.218	2.578	2.448	1.710	2.201	
VINYL ACETATE	1.481	1.779	2.460	2.010	1.952	
D-XYLENE	2.479	1.794	1.430	0.922	1.322	

014103

Avg RRT - Average Relative Retention Time
 RF - Response Factor (account of response)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (these compounds flagged with an *)

005428

Calibration Check Report - Volatile HSL Compounds

Case No. _____ Contractor Conduther Contract No. 68-01-6866
 Instrument Identifier 204 6.0 Calibration Date 02/03/84
 Sample File 058-100702 Date 02/03/84 Time 10:40
 Minimum SD for SD is 0.000 Minimum RF for RF is 0.700

Compound	Ag RF	RF	SD	SD	RF
METHYL CHLORIDE	0.885	1.127	24.050		**
METHYL BROMIDE	1.574	2.115	20.160		*
VINYL CHLORIDE	1.047	1.441	14.430		*
CHLOROETHANE	1.421	0.879	20.570		*
METHYLENE CHLORIDE	1.411	1.427	1.121		**
TRICHLOROFLUOROMETHANE	2.430	2.300	-1.951		*
1,1-DICHLOROETHYLENE	1.158	1.457	-5.020		*
1,1-DICHLOROETHANE	1.384	0.244	-0.280		**
1,2-TRANS-DICHLOROETHYLENE	1.030	1.074	-5.640		*
CHLOROFORM	2.437	2.377	-3.361		*
1,2-DICHLOROETHANE	1.418	1.791	-1.581		*
1,1,1-TRICHLOROETHANE	1.317	1.741	-4.261		*
DIBROMO TETRACHLORIDE	1.731	1.181	-4.151		*
DICHLORODIFLUOROMETHANE	1.172	1.181	-4.201		*
1,1-DICHLOROETHANE	1.384	1.871	-0.141		*
TRANS-1,2-DICHLOROETHYLENE	1.030	2.210	-3.040		*
TRICHLOROETHYLENE	1.871	1.811	-4.450		*
CHLOROETHYLCHLORIDE	1.037	1.811	-1.401		*
BENZENE	4.104	2.891	-0.551		*
1,1,2-TRICHLOROETHANE	1.421	1.851	-0.551		*
CIS-1,2-DICHLOROETHYLENE	1.030	1.851	-0.550		*
CHLOROBENZENE	1.421	1.811	20.040		**
CHLOROFORM	1.421	1.787	-0.761		**
1,1,2,2-TETRACHLOROETHANE	1.421	1.787	10.411		**
TETRACHLOROETHYLENE	1.421	1.787	-0.671		*
TELURINE	1.150	0.740	-0.711		*
CHLORODIFLUOROMETHANE	1.150	1.011	-10.751		**
ETHYLENEGLYCOL	1.150	1.111	-17.011		*
ACETONE	1.150	1.111	21.471		*
2-BUTANONE	1.150	1.011	11.801		*
DIETHYLENEGLYCOL	1.150	1.111	10.001		*
2-PENTANONE	1.150	1.011	-0.721		*
4-PENTANONE	1.150	1.111	11.801		*
ETHYLENE	1.150	0.740	-10.751		*
VINYL ACETATE	1.150	2.115	5.381		*
BUTYLENE	1.150	1.111	-0.720		*

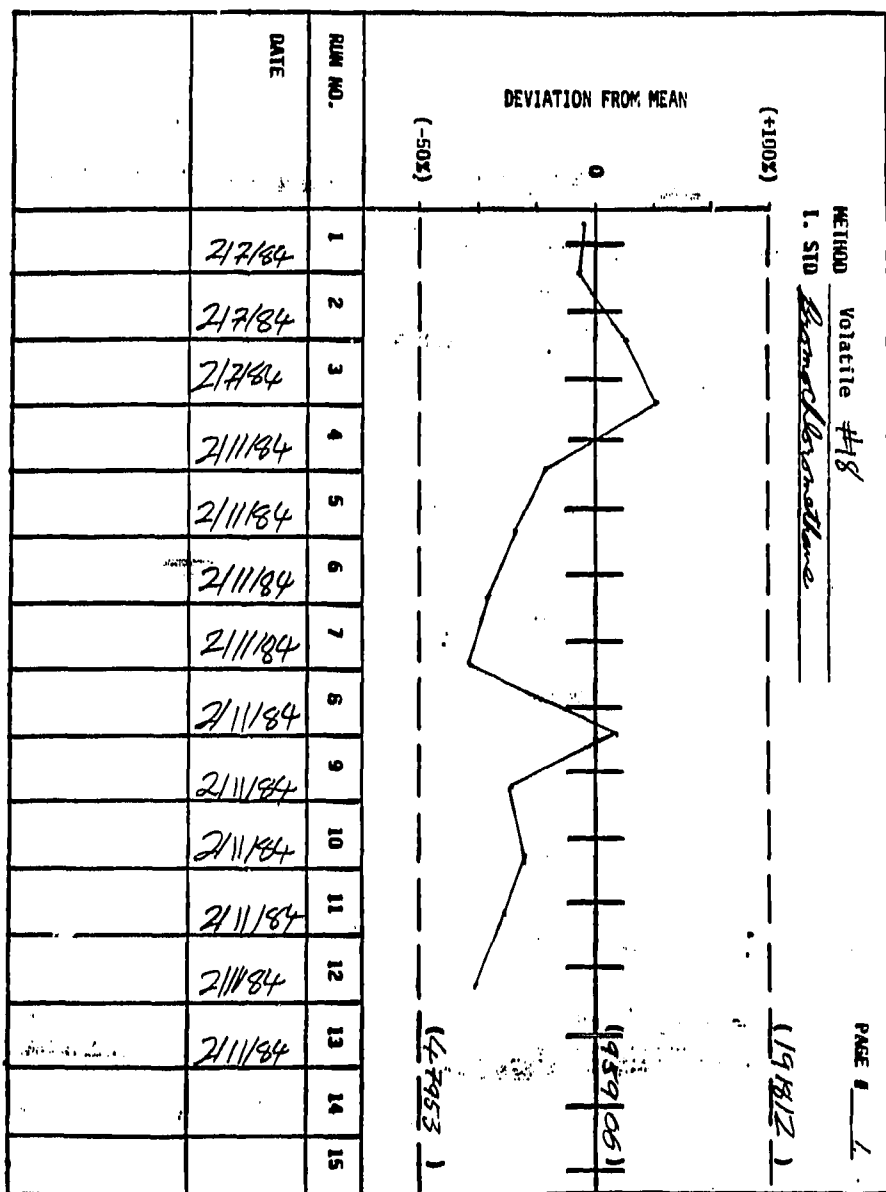
Ag RF - Average Response Factor from initial calibration
 ** - Response Factor for 2044 standard file
 * - Percent Confidence
 SD - Difference from Standard (those compounds flagged with SD)
 RF - Ratio Performance Check (those compounds flagged with **)

014104

005429

Volatile

Case a 333			kw 2/21/84	1
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014106

005431

METHOD Volatile #18
 1. STD *Bromochloroethane*

PAGE 2

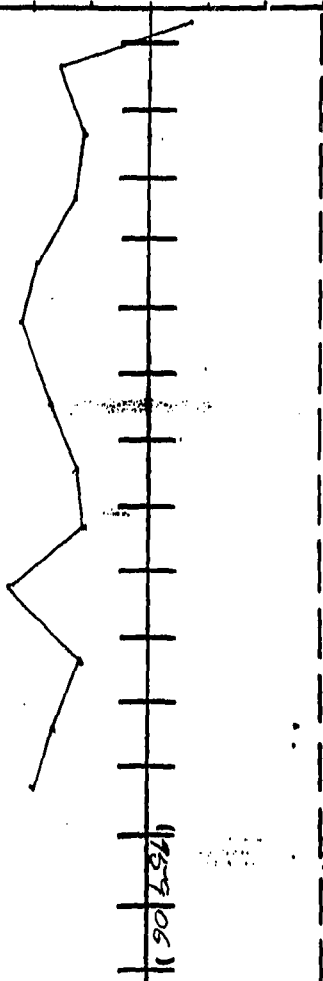
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DEVIATION FROM MEAN

(-50%)

(47353)



DATE	RUN NO.
2/13/84	1
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2/13/84	3
2/13/84	4
2/13/84	5
2/13/84	6
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2/13/84	10
2/14/84	11
2/14/84	12
2/14/84	13
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18 29

Internal Standard Response Verification Data Sheet

Case No. 2333 Contractor CompuChem Contract No. 68-01-6782

Instrument I.D. OWA 818 G.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT					
BSM40207A1B	020784	94847	1.000	94847	1.000	94847	1.000							1.000	1.000			
BTM40207A1B	020784	94602	1.000	94602	1.000	94602	1.000							1.000	1.000			
BUB40207A1B	020784	98270	1.000	98270	1.000	98270	1.000							1.000	1.000			
BSM40211C1B	021184	102272	1.000	102272	1.000	102272	1.000							1.000	1.000			
6H020257C1B	021184	85007	1.000	85007	1.000	85007	1.000							1.000	1.000			
6H020258C1B	021184	81329	1.000	81329	1.000	81329	1.000							1.000	1.000			
6H020264C1B	021184	85176	1.000	85176	1.000	85176	1.000							1.000	1.000			
6H020266C1B	021184	80950	1.000	80950	1.000	80950	1.000							1.000	1.000			
6H020267C1B	021184	73444	1.000	73444	1.000	73444	1.000							1.000	1.000			
6H020268C1B	021184	65146	1.000	65146	1.000	65146	1.000							1.000	1.000			
BSM40211A1B	021184	97090	1.000	97090	1.000	97090	1.000							1.000	1.000			
6H020276A1B	021184	78812	1.000	78812	1.000	78812	1.000							1.000	1.000			
6H020288A1B	021184	81695	1.000	81695	1.000	81695	1.000							1.000	1.000			
BSM40213A1B	021384	97105	1.000	97105	1.000	97105	1.000							1.000	1.000			
6H020286A1B	021384	69202	1.000	69202	1.000	69202	1.000							1.000	1.000			
6H020509A1B	021384	82139	1.000	82139	1.000	82139	1.000							1.000	1.000			
6H020510A1B	021384	80271	1.000	80271	1.000	80271	1.000							1.000	1.000			
6H020284A1B	021384	64275	1.000	64275	1.000	64275	1.000							1.000	1.000			
BR019561B1B	021384	61724	1.000	61724	1.000	61724	1.000							1.000	1.000			
BR019541B1B	021384	68291	1.000	68291	1.000	68291	1.000							1.000	1.000			
BSM40213B1B	021384	74978	1.000	74978	1.000	74978	1.000							1.000	1.000			
BR019735B1B	021384	76436	1.000	76436	1.000	76436	1.000							1.000	1.000			
BR019937B1B	021384	59920	1.000	59920	1.000	59920	1.000							1.000	1.000			
6I019738C1B	0214B4	76249	1.000	76249	1.000	76249	1.000							1.000	1.000			
6H020277C1B	0214B4	71497	1.000	71497	1.000	71497	1.000							1.000	1.000			
6H020278C1B	0214B4	68420	1.000	68420	1.000	68420	1.000							1.000	1.000			

- R1 = (Resp ISA/Resp ISB)
- R2 = (Resp ISB/Resp ISC)
- R3 = (Resp ISC/Resp ISD)
- R4 = (Resp ISD/Resp ISE)
- R5 = (Resp ISE/Resp ISF)

014108

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Case No. 2333Contractor CompuChemContract No. 68-01-6762Instrument Identifier OWA #18

Calibration Date - 02/07/84

Minimum Avg RF for SPCC is 0.050

Compound	Avg	RT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
METHYL CHLORIDE	0.231	0.519	0.549	0.535	0.534	0.534	*
METHYL BROMIDE	0.378	1.948	2.029	2.029	2.002	2.002	
VINYL CHLORIDE	0.459	1.992	2.121	2.099	2.071	2.071	
CHLOROETHANE	0.367	0.391	0.398	0.408	0.399	0.399	
METHYLENE CHLORIDE	0.746	1.071	1.001	1.090	1.054	1.054	
TRICHLOROFLUOROMETHANE	0.920	1.715	1.797	1.906	1.806	1.806	
1,1-DICHLOROETHYLENE	0.972	0.817	0.854	0.921	0.864	0.864	
1,1-DICHLOROETHANE	1.079	0.353	0.367	0.401	0.374	0.374	*
1,2-TRANS-DICHLOROETHYLENE	1.138	0.655	0.662	0.709	0.675	0.675	
CHLOROFORM	1.177	1.653	1.690	1.806	1.717	1.717	
1,2-DICHLOROETHANE	1.243	0.857	0.892	0.955	0.901	0.901	
1,1,1-TRICHLOROETHANE	1.362	1.117	1.147	1.191	1.151	1.151	
CARBON TETRACHLORIDE	1.397	1.533	1.588	1.672	1.598	1.598	
BICHLORODIBROMOMETHANE	1.426	0.171	0.179	0.186	0.179	0.179	
1,2-DICHLOROPROPANE	1.554	0.225	0.234	0.258	0.239	0.239	*
TRANS-1,3-DICHLOROPROPYLENE	1.571	1.208	1.270	1.400	1.293	1.293	
TRICHLOROETHYLENE	1.619	1.314	1.326	1.380	1.340	1.340	
CHLORODIBROMOMETHANE	1.667	1.418	1.490	1.601	1.503	1.503	
BENZENE	1.674	1.892	1.994	2.165	1.937	1.937	
1,2-TRICHLOROETHANE	1.680	0.952	0.988	1.043	1.001	1.001	
1,3-DICHLOROPROPYLENE	1.682	0.634	0.668	0.739	0.680	0.680	
2-CHLOROETHYL VINYL ETHER	1.776	0.357	0.392	0.367	0.372	0.372	*
BROMOFORM	1.901	1.368	1.458	1.545	1.457	1.457	*
1,1,2,2-TETRACHLOROETHANE	2.103	1.496	1.639	1.739	1.625	1.625	*
TETRACHLOROETHYLENE	2.112	1.340	1.356	1.385	1.360	1.360	
TOLUENE	2.252	1.326	1.357	1.400	1.361	1.361	
CHLOROBENZENE	2.382	2.358	2.413	2.471	2.414	2.414	*
ETHYLBENZENE	2.656	0.953	0.971	0.980	0.968	0.968	
ACETONE (2-PROPANONE)	0.752	0.067	0.070	0.074	0.070	0.070	
2-BUTANONE	1.238	0.102	0.105	0.107	0.105	0.105	
CARBON DISULFIDE	0.879	2.236	2.758	3.509	2.834	2.834	
2-HEXANONE	2.090	1.036	1.238	1.339	1.211	1.211	
4-METHYL-2-PENTANONE	1.955	0.436	0.420	0.436	0.431	0.431	
STYRENE	3.265	1.861	2.085	2.407	2.118	2.118	
VINYL ACETATE	1.401	0.734	1.038	1.211	0.994	0.994	
O-XYLENE	3.459	1.174	1.293	1.464	1.311	1.311	

RT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (those compounds flagged with an *)

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Calibration Check Report - Volatile HSL Compounds

Case No. 2333

Contractor CompuChem

Contract No. 62-01-8762

Instrument Identifier OWA #18

Calibration Date 02/07/84

Standard File 68840213A18

Date 02/13/84 Time 11:39

System ID for CCC is 20.00

Minimum RF for SPCC is 0.300

Compound	Avg RF	RF	ID	CCC	SPCC
METHYL CHLORIDE	0.534	0.376	-34.720		**
METHYL BROMIDE	2.002	1.811	-10.010		
VINYL CHLORIDE	2.071	1.797	-19.240	*	
CHLOROETHANE	0.399	0.347	-13.940		
METHYLENE CHLORIDE	1.054	0.994	-5.850		
TRICHLOROFLUOROMETHANE	1.806	1.788	-1.000		
1,1-DICHLOROETHYLENE	0.864	0.825	-4.610	*	
1,1-DICHLOROETHANE	0.374	0.332	-11.870		**
1,2-TRANS-DICHLOROETHYLENE	0.675	0.609	-10.280		
CHLOROFORM	1.716	1.586	-7.870	*	
1,2-DICHLOROETHANE	0.901	0.817	-9.770		
1,1,1-TRICHLOROETHANE	1.151	1.069	-7.380		
CARBON TETRACHLORIDE	1.598	1.493	-6.790		
DICHLOROBROMOMETHANE	0.179	0.170	-5.150	*	
1,2-DICHLOROPROPANE	0.239	0.223	-6.920		
TRANS-1,3-DICHLOROPROPYLENE	1.293	1.192	-8.120		
TRICHLOROETHYLENE	1.340	1.330	-0.740		
CHLORODIBROMOMETHANE	1.503	1.447	-3.790		
BENZENE	1.937	1.854	-4.370		
1,1,2-TRICHLOROETHANE	1.001	0.972	-2.930		
CIS-1,3-DICHLOROPROPYLENE	0.680	0.628	-7.950		
2-CHLOROETHYL VINYL ETHER	0.372	0.396	6.250		**
CHLOROFORM	1.457	1.468	0.750		**
1,1,2,2-TETRACHLOROETHANE	1.625	1.667	2.550		**
TETRACHLOROETHYLENE	1.360	1.411	3.680		
TOLUENE	1.361	1.457	6.810	*	
CHLOROBENZENE	2.414	2.516	4.130		**
ETHYLBENZENE	0.968	1.044	7.550		
ACETONE (2-PROPANONE)	0.070	0.055	-24.000		
2-BUTANONE	0.104	0.100	-3.920		
CARBON DISULFIDE	2.834	2.368	-17.910		
2-HEXANONE	1.211	1.319	8.530		
4-METHYL-2-PENTANONE	0.431	0.434	0.490		
STYRENE	2.118	2.101	-0.800		
VINYL ACETATE	0.994	0.842	-16.550		
D-XYLENE	1.310	1.283	-3.450		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

ID - Percent Difference

* - Calibration Check Compounds (those compounds flagged with an *)

** - System Performance Check Compounds (those compounds flagged with **)

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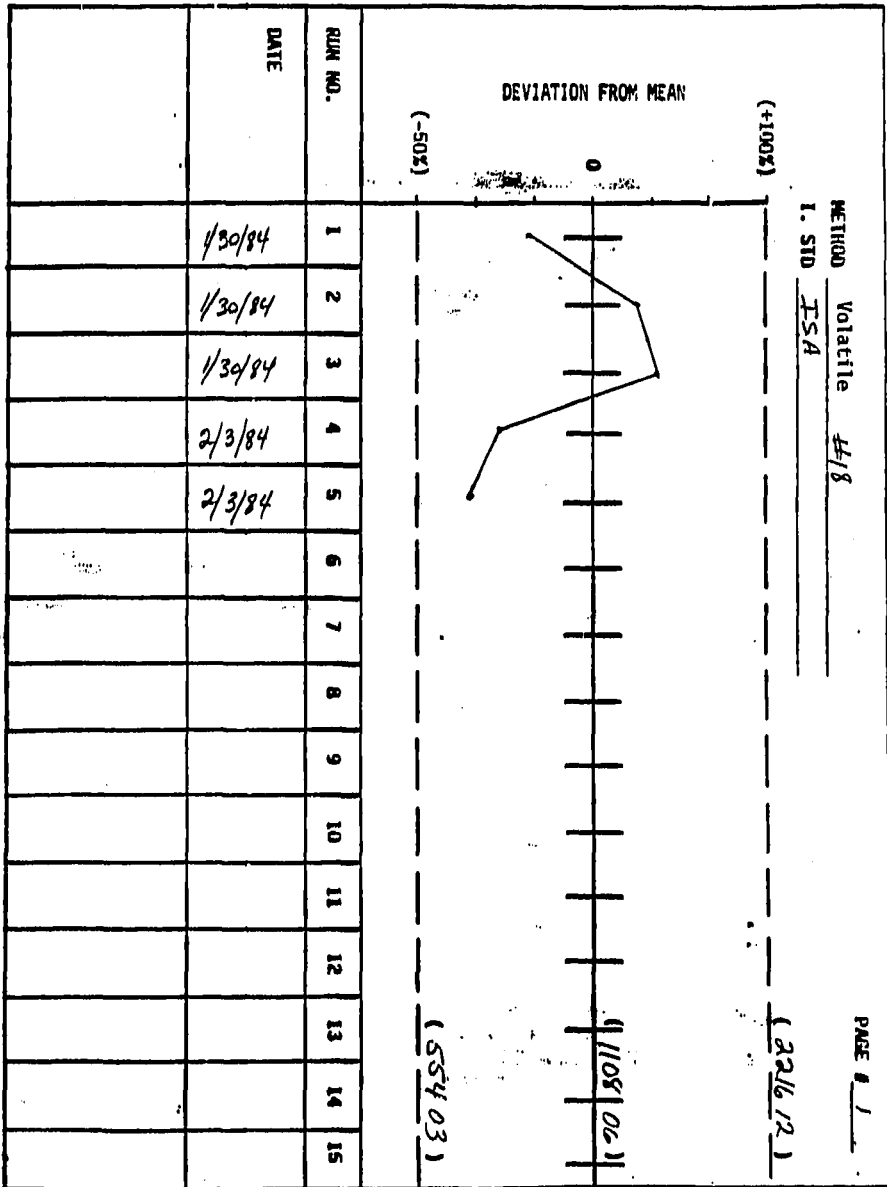
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0014112

Internal Standard Response Verification Data Sheet

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Case No. 2333 Contractor CompuChem Contract No. 68-01-6866

Instrument I.D. QNA #18 Q.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT					
BUR40130B18	0130B4	103669	1.000	103669	1.000	103669	1.000							1.000	1.000			
6SB40130A18	0130B4	113521	1.000	113521	1.000	113521	1.000							1.000	1.000			
6TB40130A18	0130B4	115228	1.000	115228	1.000	115228	1.000							1.000	1.000			
6SB40203A18	0203B4	88630	1.000	88630	1.000	88630	1.000							1.000	1.000			
6H019563A18	0203B4	70377	.468	29523	.857	69984	1.000							2.384	.422			

R1 = (Resp ISA/Resp ISB)
 R2 = (Resp ISB/Resp ISC)
 R3 = (Resp ISC/Resp ISD)
 R4 = (Resp ISD/Resp ISE)
 R5 = (Resp ISE/Resp ISF)

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Case No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier OMA 01B

Calibration Date - 01/30/84

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
METHYL CHLORIDE	0.234	0.745	0.505	0.709	0.653	*
METHYL BROMIDE	0.374	2.055	1.659	2.066	1.927	
VINYL CHLORIDE	0.457	2.130	1.777	2.202	2.037	
CHLOROETHANE	0.565	0.467	0.357	0.485	0.436	
METHYLENE CHLORIDE	0.745	1.337	2.172	0.901	1.470	
TRICHLOROFLUOROMETHANE	0.921	1.684	1.485	1.637	1.602	
1,1-DICHLOROETHYLENE	0.974	0.869	0.673	0.840	0.794	
1,1-DICHLOROETHANE	1.079	0.435	0.301	0.397	0.378	*
1,2-TRANS-DICHLOROETHYLENE	1.140	0.971	0.722	0.898	0.863	
CHLOROFORM	1.179	1.877	1.377	1.736	1.663	
1,2-DICHLOROETHANE	1.245	1.149	0.882	1.119	1.050	
1,1,1-TRICHLOROETHANE	1.365	1.431	1.077	1.309	1.272	
CARBON TETRACHLORIDE	1.397	1.501	1.180	1.432	1.371	
DICHLOROBROMOMETHANE	1.428	0.191	0.147	0.181	0.173	
1,2-DICHLOROPROPANE	1.558	0.271	0.195	0.256	0.241	
TRANS-1,3-DICHLOROPROPYLENE	1.574	1.615	1.207	1.570	1.464	
TRICHLOROETHYLENE	1.622	1.316	1.021	1.196	1.178	
CHLORODIBROMOMETHANE	1.671	1.427	1.130	1.421	1.326	
BENZENE	1.677	2.505	1.905	2.443	2.284	
1,1,2-TRICHLOROETHANE	1.681	1.006	0.780	0.986	0.924	
CIS-1,3-DICHLOROPROPYLENE	1.686	0.820	0.604	0.820	0.748	
2-CHLOROETHYL VINYL ETHER	1.786	0.434	0.298	0.523	0.419	*
BROMOFORM	1.904	1.441	1.204	1.477	1.374	*
1,1,2,2-TETRACHLOROETHANE	2.109	1.805	1.371	1.770	1.652	*
TETRACHLOROETHYLENE	2.115	1.270	1.017	1.142	1.143	
TOLUENE	2.253	1.798	1.369	1.614	1.594	
CHLOROBENZENE	2.384	2.490	1.906	2.217	2.204	*
ETHYLBENZENE	2.655	1.237	0.937	1.081	1.085	
ACETONE (2-PROPANONE)	0.793	0.079	0.073	0.064	0.072	
2-BUTANONE	1.240	0.113	0.113	0.089	0.105	
CARBON DISULFIDE	0.879	3.777	2.256	2.976	3.003	
2-HEXANONE	2.092	0.466	0.392	0.301	0.386	
4-METHYL-2-PENTANONE	1.956	0.508	0.460	0.348	0.438	
STYRENE	3.262	2.826	1.741	1.980	2.182	
VINYL ACETATE	1.402	1.522	0.896	1.197	1.205	
O-XYLENE	3.454	1.770	1.113	1.231	1.371	

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Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (those compounds flagged with an *)

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Calibration Check Report - Volatile HSL Compounds

Page 1

Case No. 2333 Contractor CompuChem Contract No. 68-01-6866
 Instrument Identifier DNA #18 Calibration Date 01/30/84
 Standard File GSB40203A18 Date 02/03/84 Time 13:49
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.300

Compound	Avg RF	RF	ZD	CCC	SPCC
METHYL CHLORIDE	0.653	0.410	-45.710		**
METHYL BROMIDE	1.927	1.773	-8.320		
VINYL CHLORIDE	2.036	1.772	-13.860	*	
CHLOROETHANE	0.436	0.323	-29.770		
METHYLENE CHLORIDE	1.470	0.732	-67.020		
TRICHLOROFLUOROMETHANE	1.602	1.702	6.050		
1,1-DICHLOROETHYLENE	0.794	0.661	-18.280	*	
1,1-DICHLOROETHANE	0.378	0.302	-22.350		**
1,2-TRANS-DICHLOROETHYLENE	0.864	0.752	-13.860		
CHLOROFORM	1.663	1.499	-10.370	*	
1,2-DICHLOROETHANE	1.050	0.970	-7.920		
1,1,1-TRICHLOROETHANE	1.272	1.224	-3.840		
CARBON TETRACHLORIDE	1.371	1.433	4.420		
DICHLOROBROMOMETHANE	0.173	0.184	6.160	*	
1,2-DICHLOROPROPANE	0.241	0.214	-11.860		
TRANS-1,3-DICHLOROPROPYLENE	1.464	1.402	-4.320		
TRICHLOROETHYLENE	1.178	1.230	4.310		
CHLORODIBROMOMETHANE	1.326	1.497	12.110		
BENZENE	2.284	2.200	-3.740		
1,1,2-TRICHLOROETHANE	0.924	0.982	6.080		
TRANS-1,3-DICHLOROPROPYLENE	0.748	0.745	-0.400		
1,1-DICHLOROETHYL VINYL ETHER	0.418	0.855	68.650		**
BROMOFORM	1.374	1.669	19.380		**
1,1,2,2-TETRACHLOROETHANE	1.651	1.700	2.920		**
TETRACHLOROETHYLENE	1.143	1.287	11.850		
TOLUENE	1.594	1.591	-0.180	*	
CHLOROBENZENE	2.204	2.347	6.280		**
ETHYLBENZENE	1.085	1.133	4.320		
ACETONE (2-PROPANONE)	0.072	0.063	-13.330		
2-BUTANONE	0.105	0.101	-3.880		
CARBON DISULFIDE	3.003	2.848	-5.290		
2-HEXANONE	0.386	0.365	-5.590		
4-METHYL-2-PENTANONE	0.439	0.451	2.690		
STYRENE	2.182	2.429	10.710		
VINYL ACETATE	1.205	1.138	-5.710		
D-XYLENE	1.371	1.513	9.840		

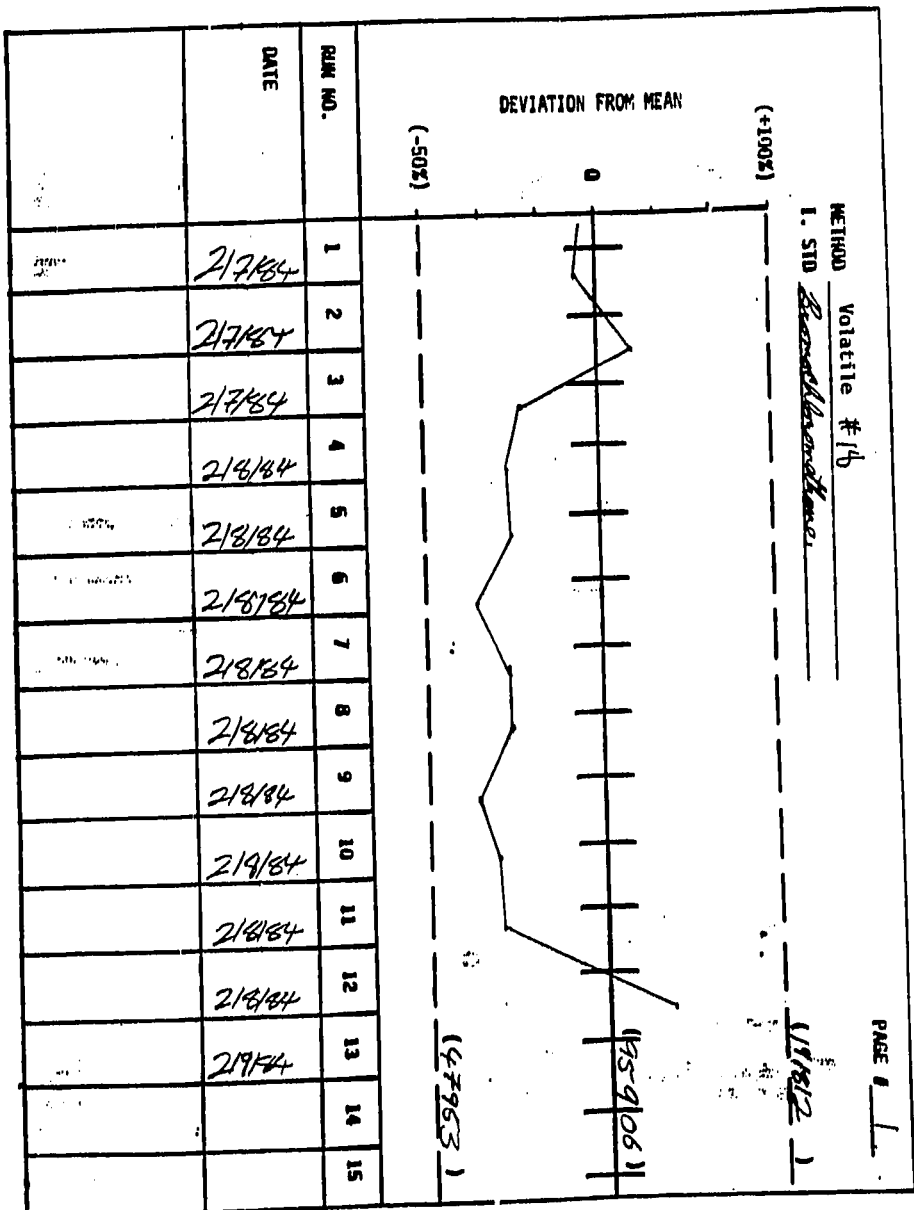
Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 ZD - Percent Difference
 CCC - Calibration Check Compounds (those compounds flagged with an *)
 SPCC - System Performance Check Compounds (those compounds flagged with **)

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Internal Standard Response Verification Data Sheet

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Case No. 2333 Contractor CompuChem Contract No. 68-01-2672

Instrument I.D. QNA_01B Q.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT					
6SB40207A1B	020784	94847	1.000	94847	1.000	94847	1.000							1.000	1.000			
6TB40207A1B	020784	94602	1.000	94602	1.000	94602	1.000							1.000	1.000			
6UB40207A1B	020784	98270	1.000	98270	1.000	98270	1.000							1.000	1.000			
6SB40208C1B	020984	79659	1.000	79659	1.000	79659	1.000							1.000	1.000			
6HO19853C1B	020984	76164	1.000	76164	1.000	76164	1.000							1.000	1.000			
6HO19858C1B	020984	77356	1.000	77356	1.000	77356	1.000							1.000	1.000			
6HO19861B19	020984	66426	1.000	66426	1.000	66426	1.000							1.000	1.000			
6HO19861B19	020984	76459	1.000	76459	1.000	76459	1.000							1.000	1.000			
6HO19523C1B	020984	77454	1.000	77454	1.000	77454	1.000							1.000	1.000			
6HO19524A1B	020984	55248	1.000	55248	1.000	55248	1.000							1.000	1.000			
6HO19543A1B	020984	62393	1.000	62393	1.000	62393	1.000							1.000	1.000			
6HI1953BA1B	020984	66133	1.000	66133	1.000	66133	1.000							1.000	1.000			
6SB40209C1B	020984	101275	1.000	101275	1.000	101275	1.000							1.000	1.000			
6W20103C1B	020984	91098	1.000	91098	1.000	91098	1.000							1.000	1.000			
6W20105C1B	020984	87882	1.000	87882	1.000	87882	1.000							1.000	1.000			
6HO19931C1B	020984	77462	1.000	77462	1.000	77462	1.000							1.000	1.000			
6HO19934C1B	020984	67955	1.000	67955	1.000	67955	1.000							1.000	1.000			
6HO19920C1B	020984	56748	1.000	56748	1.000	56748	1.000							1.000	1.000			
6HO19925C1B	020984	63883	1.000	63883	1.000	63883	1.000							1.000	1.000			
6HO19917A1B	020984	66496	1.000	66496	1.000	66496	1.000							1.000	1.000			
6SB40209A1B	020984	83989	1.000	83989	1.000	83989	1.000							1.000	1.000			
6SB40209A1B	020984	54804	1.000	54804	1.000	54804	1.000							1.000	1.000			
6HO19788B1B	020984	16119	1.000	16119	1.000	16119	1.000							1.000	1.000			
6HO19854B1B	020984	50830	1.000	50830	1.000	50830	1.000							1.000	1.000			
6SB40210C1B	021084	66382	1.000	66382	1.000	66382	1.000							1.000	1.000			
6HO20141C1B	021084	68649	1.000	68649	1.000	68649	1.000							1.000	1.000			
6HI19422C1B	021084	58316	1.000	58316	1.000	58316	1.000							1.000	1.000			
6HI19466C1B	021084	48242	1.000	48242	1.000	48242	1.000							1.000	1.000			
6HI19562C1B	021084	62976	1.000	62976	1.000	62976	1.000							1.000	1.000			
6HO19650C1B	021084	49643	1.000	49643	1.000	49643	1.000							1.000	1.000			
6HO19650C1B	021084	45596	1.000	45596	1.000	45596	1.000							1.000	1.000			
6HO19527C1B	021084	62435	1.000	62435	1.000	62435	1.000							1.000	1.000			

R1 = (Resp ISA/Resp ISB)
 R2 = (Resp ISB/Resp ISC)
 R3 = (Resp ISC/Resp ISD)
 R4 = (Resp ISD/Resp ISE)
 R5 = (Resp ISE/Resp ISF)

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Internal Standard Response Verification Data Sheet

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Case No. 2333 Contractor CompuChem Contract No. GS-CI-6762

Instrument I.D. DNA_#18 Q.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT					
BSB40207A1B	020784	94847	1.000	94847	1.000	94847	1.000							1.000	1.000			
MTB40207A1W	020784	94802	1.000	94802	1.000	94802	1.000							1.000	1.000			
GUS40207A1B	020784	98270	1.000	98270	1.000	98270	1.000							1.000	1.000			
GHO1Y328A1B	021084	69032	1.000	69032	1.000	69032	1.000							1.000	1.000			
BSB40210A1B	021084	97394	1.000	97394	1.000	97394	1.000							1.000	1.000			
GHO201B2A1B	021084	70991	1.000	70991	1.000	70991	1.000							1.000	1.000			
GHO20176B1B	021084	75907	1.000	75907	1.000	75907	1.000							1.000	1.000			
GHO20263B1B	021084	68141	1.000	68141	1.000	68141	1.000							1.000	1.000			

- R1 = (Resp ISA/Resp ISB)
- R2 = (Resp ISB/Resp ISC)
- R3 = (Resp ISC/Resp ISD)
- R4 = (Resp ISD/Resp ISE)
- R5 = (Resp ISE/Resp ISF)

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Case No. 2333Contractor CompuChemContract No. 68-01-0702Instrument Identifier DNA 818

Calibration Date - 02/07/84

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
METHYL CHLORIDE	0.231	0.519	0.549	0.533	0.534	*
METHYL BROMIDE	0.378	1.948	2.029	2.029	2.002	*
VINYL CHLORIDE	0.459	1.992	2.121	2.099	2.071	*
CHLOROETHANE	0.567	0.391	0.398	0.408	0.399	*
METHYLENE CHLORIDE	0.746	1.071	1.001	1.090	1.054	*
TRICHLOROFLUOROMETHANE	0.920	1.715	1.797	1.906	1.806	*
1,1-DICHLOROETHYLENE	0.972	0.817	0.854	0.921	0.864	*
1,1-DICHLOROETHANE	1.079	0.353	0.367	0.401	0.374	*
1,2-TRANS-DICHLOROETHYLENE	1.138	0.655	0.662	0.709	0.675	*
CHLOROFORM	1.177	1.653	1.690	1.806	1.717	*
1,2-DICHLOROETHANE	1.243	0.857	0.892	0.955	0.901	*
1,1,1-TRICHLOROETHANE	1.362	1.117	1.147	1.191	1.151	*
CARBON TETRACHLORIDE	1.397	1.533	1.588	1.672	1.598	*
DICHLOROBROMOMETHANE	1.426	0.171	0.179	0.186	0.179	*
1,2-DICHLOROPROPANE	1.594	0.225	0.234	0.258	0.239	*
TRANS-1,3-DICHLOROPROPYLENE	1.571	1.208	1.270	1.400	1.293	*
TRICHLOROETHYLENE	1.619	1.314	1.326	1.380	1.340	*
CHLORO-DIBROMOMETHANE	1.667	1.418	1.438	1.601	1.503	*
BENZENE	1.674	1.002	1.904	2.105	1.937	*
1,2-TRICHLOROETHANE	1.690	0.952	0.988	1.063	1.001	*
1,2-1,3-DICHLOROPROPYLENE	1.682	0.634	0.668	0.739	0.680	*
2-CHLOROETHYL VINYL ETHER	1.776	0.357	0.392	0.367	0.372	*
BROMOFORM	1.901	1.368	1.458	1.545	1.457	*
1,1,2,2-TETRACHLOROETHANE	2.103	1.496	1.659	1.739	1.625	*
TETRACHLOROETHYLENE	2.112	1.340	1.356	1.385	1.360	*
TOLUENE	2.252	1.326	1.357	1.400	1.361	*
CHLOROBENZENE	2.382	2.358	2.413	2.471	2.414	*
ETHYLBENZENE	2.656	0.953	0.971	0.980	0.968	*
ACETONE (2-PROPANONE)	0.792	0.067	0.070	0.074	0.070	*
2-BUTANONE	1.238	0.102	0.105	0.107	0.105	*
CARBON DISULFIDE	0.879	2.236	2.758	3.509	2.834	*
2-HEXANONE	2.090	1.056	1.238	1.339	1.211	*
4-METHYL-2-PENTANONE	1.955	0.436	0.420	0.436	0.431	*
STYRENE	3.265	1.861	2.083	2.447	2.118	*
VINYL ACETATE	1.401	0.734	1.038	1.211	0.994	*
O-XYLENE	3.459	1.174	1.293	1.464	1.311	*

014120

RRT - Average Relative Retention Time

RF - Response Factor (amount of nanograms)

Avg RF - Average Response Factor

BGC or BMS compounds flagged with an *

Start Time - 0314

Stop Date - 011084

29

005445

Case No. 2333 Contractor CompuChem Contract No. 68-01-6702
 Instrument Identifier DNA 01B Calibration Date 02/07/84
 Standard File GS940210C1B Date 02/10/84 Time 01:21
 Minimum RD for CCC is 20.00 Minimum RF for SPCC is 0.300

Compound	Avg RF	RF	RD	CCC	SPCC
METHYL CHLORIDE	0.534	0.426	-22.500		**
METHYL BROMIDE	2.092	1.832	-8.860		
VINYL CHLORIDE	2.071	0.771	-63.640		
CHLOROETHANE	0.399	0.291	-31.300		
METHYLENE CHLORIDE	1.054	0.917	-13.900		
TRICHLOROFLUOROMETHANE	1.066	1.185	-41.520		
1,1-DICHLOROETHYLENE	0.864	0.741	-15.320		
1,1-DICHLOROETHANE	0.374	0.313	-17.750		**
1,2-TRANS-DICHLOROETHYLENE	0.675	0.591	-13.270		
CHLOROFORM	1.716	1.638	-4.650		
1,2-DICHLOROETHANE	0.901	0.925	2.620		
1,1,1-TRICHLOROETHANE	1.151	1.116	-3.080		
CARBON TETRACHLORIDE	1.598	1.642	2.710		
DICHLOROBROMOMETHANE	0.179	0.197	9.570		
1,2-DICHLOROPROPANE	0.239	0.221	-7.820		
TRANS-1,3-DICHLOROPROPYLENE	1.293	1.253	-3.140		
TRICHLOROETHYLENE	1.340	1.417	5.590		
CHLORO Dibromomethane	1.502	1.770	16.310		
BENZENE	1.937	1.873	-3.350		
1,1,2-TRICHLOROETHANE	1.001	1.119	11.150		
CIS-1,3-DICHLOROPROPYLENE	0.680	0.679	-2.750		
CHLORODIBROMOETHYLENE	0.372	0.450	18.970	**	**
CHLORODIBROMOETHANE	1.457	1.884	25.560	**	**
1,1,2,2-TETRACHLOROETHANE	1.625	1.898	15.490	**	**
TETRACHLOROETHYLENE	1.360	1.558	13.570		
TOLUENE	1.361	1.367	0.430		
CHLOROBENZENE	2.414	2.581	6.680		
ETHYLBENZENE	0.968	1.011	4.340		
ACETONE (2-PROPANONE)	0.070	0.091	26.080		
2-BUTANONE	0.104	0.119	13.450		
CARBON DISULFIDE	2.834	3.137	10.140		
2-HEXANONE	1.211	1.517	22.430		
4-METHYL-2-PENTANONE	0.431	0.500	14.820		
STYRENE	2.118	2.943	32.600		
VINYL ACETATE	0.994	1.130	12.800		
D-XYLENE	1.310	1.838	33.540		

Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 RD - Percent Difference
 CCC - Calibration Check Compounds (those compounds flagged with an *)
 SPCC - System Performance Check Compounds (those compounds flagged with **)

014121

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F. GC/MS Environment Data (Semi-Volatiles)

This section includes Internal Standard Response Verification Control Charts (as required in Exhibit B, page 40 of 42, Form XI); Internal Standard Response Verification Report (as required in Exhibit B, page 29 of 42, Form VIII); Initial Calibration Data (as required in Exhibit B, page 32 of 42, Form IX); and Calibration Check Data (as required in Exhibit B, page 37 of 42, Form X). CompuChem uses computer-generated forms which are similar in format to those specified in the contract.

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Semi-Volatile

Case 2333

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		P 20 005448

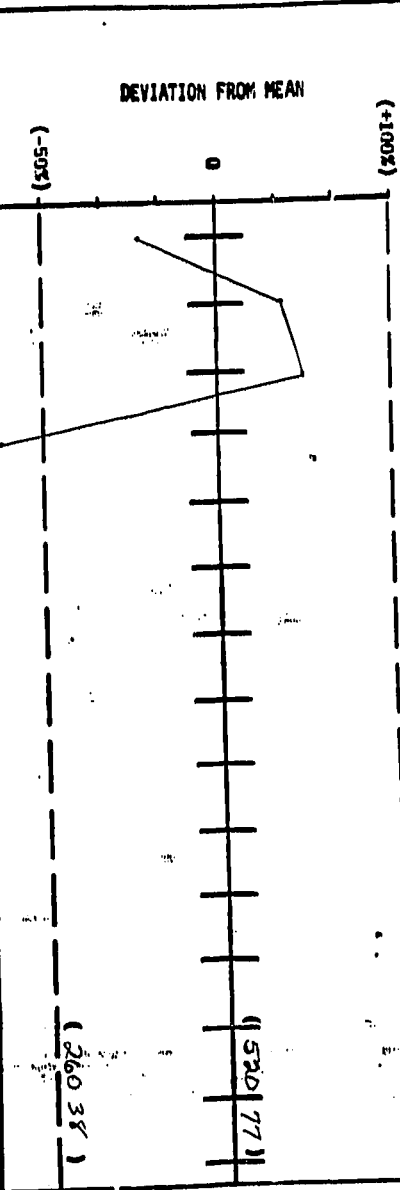
METHOD Semi-volatile #15

I. STD ISA

(104/51)

DEVIATION FROM MEAN

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0
(-50%)



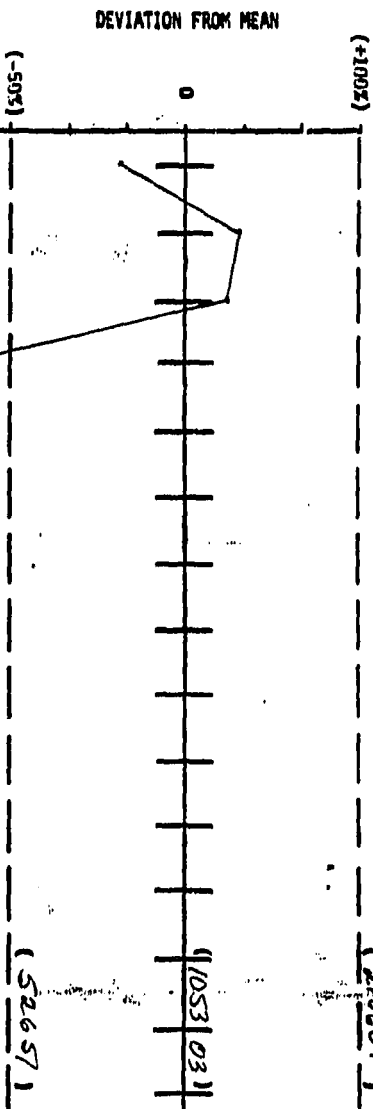
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2	1/9/84
3	1/9/84
4	1/9/84
5	2/10/84
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METHOD Semi-volatile #15
 I. STD JSB

PAGE # 2

(210607)

(105303)



DATE	RUN NO.
1/9/84	1
1/9/84	2
1/9/84	3
1/9/84	4
2/10/84	5
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	13
	14
	15

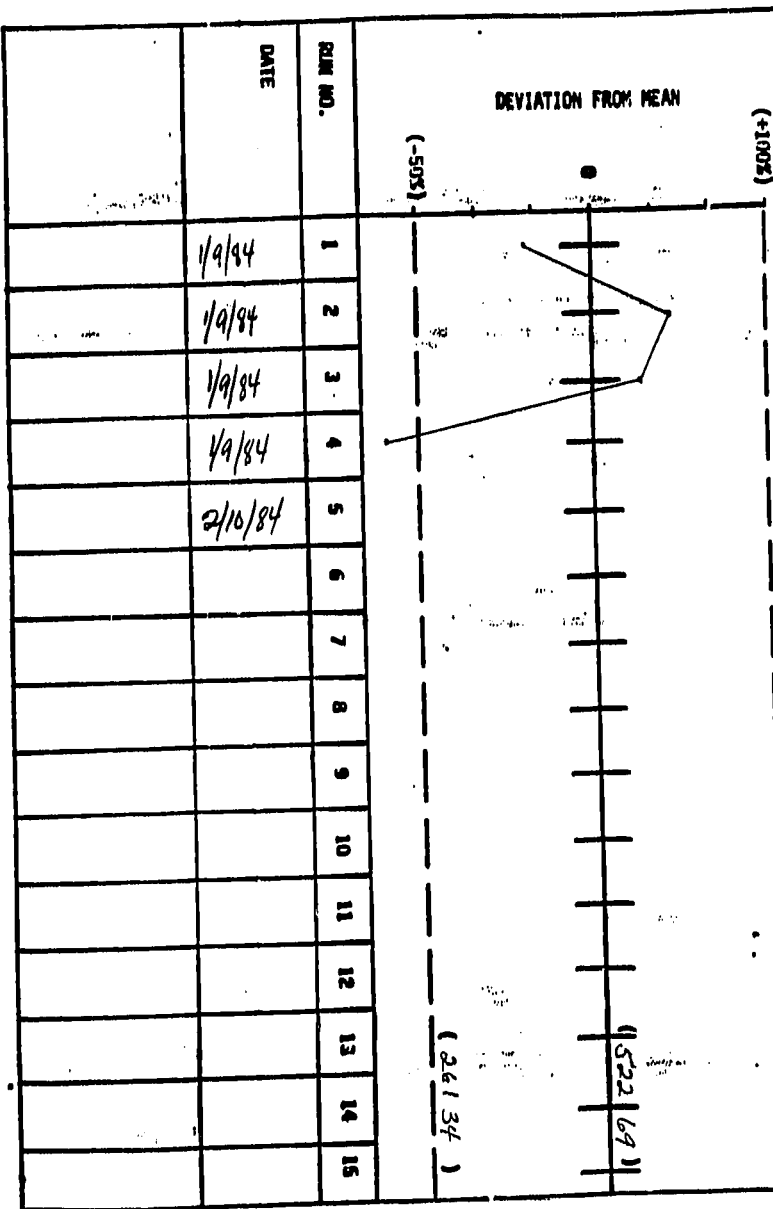
014125

005449

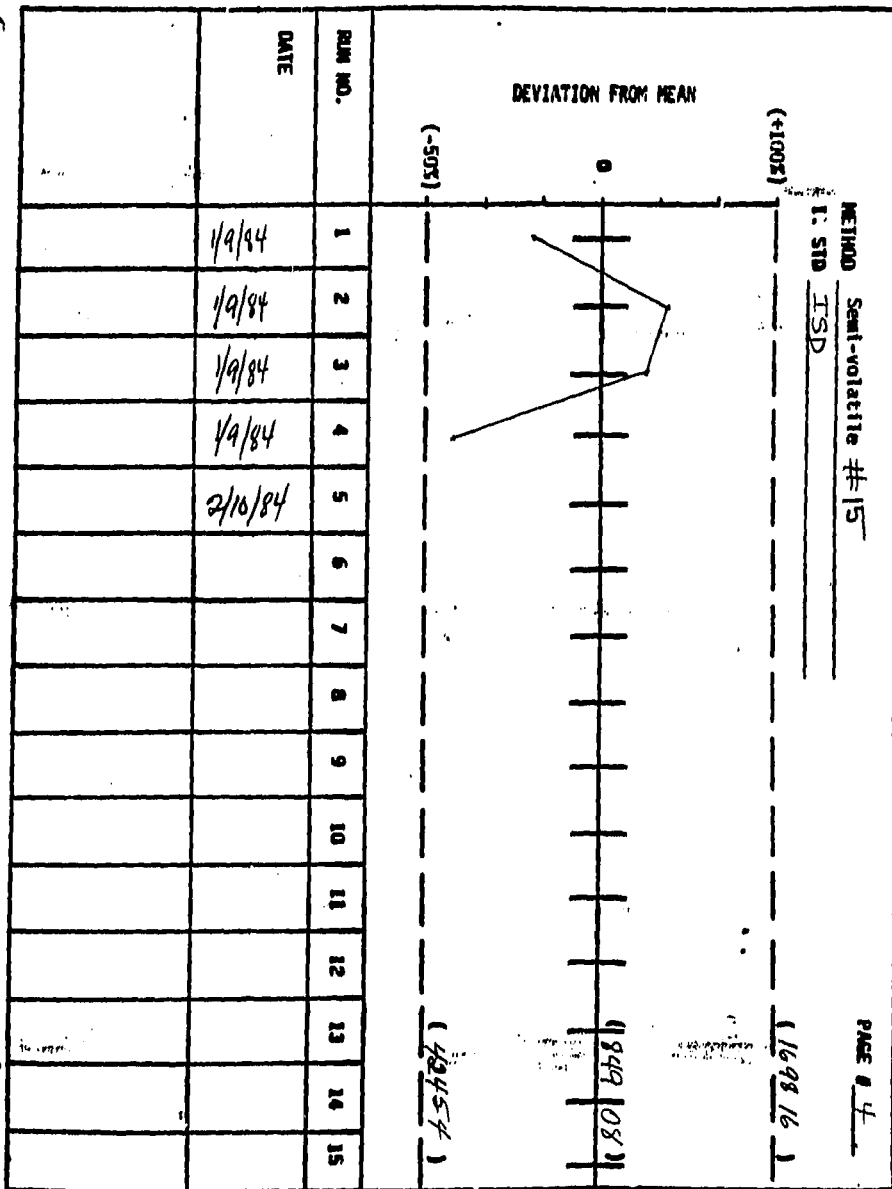
METHOD Semi-volatile #15
 I. STD ISC

PAGE 3

(104539)



RUN NO.	DATE
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2	1/9/84
3	1/9/84
4	4/9/84
5	2/10/84
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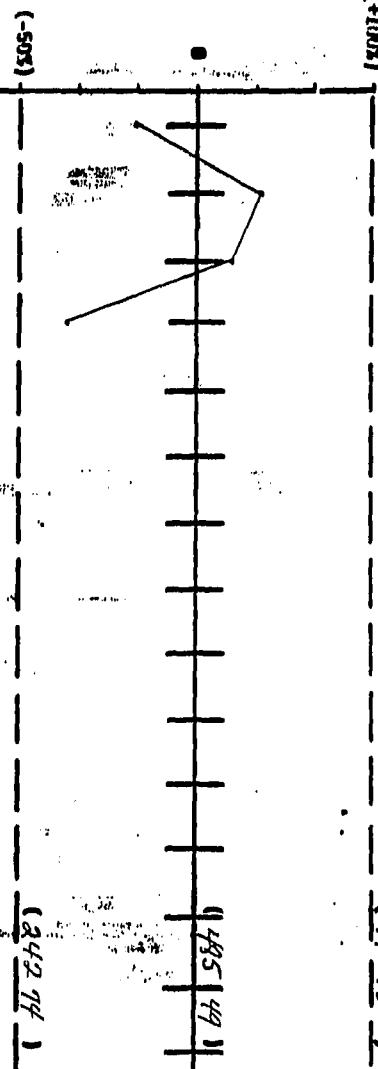
005451

METHOD Semi-volatile #15
 I. STD ISE

PAGE # 5

197098

DEVIATION FROM MEAN



NUM NO.	DATE
1	1/9/84
2	1/9/84
3	1/9/84
4	1/9/84
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005452

METHOD Semi-volatile #15
 I. STD ISF

PAGE # 6

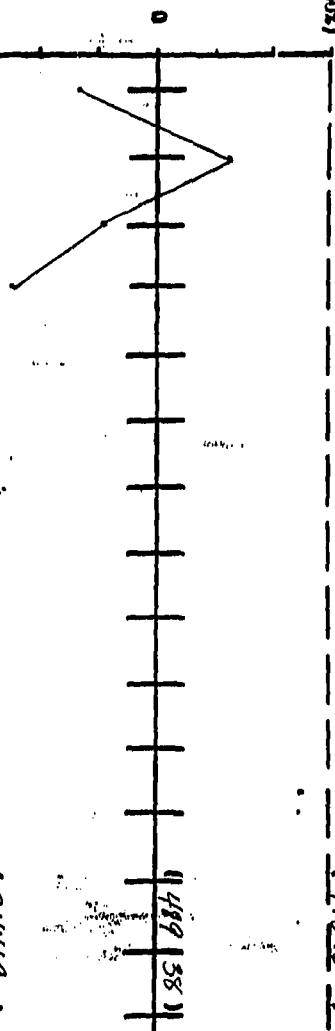
(+100%)

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DEVIATION FROM MEAN

(-50%)

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RUN NO.	DATE
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2	1/9/84
3	1/9/84
4	1/9/84
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Internal Standard Response Verification Data Sheet

PAGE 1

Case No. 2333 Contractor CompuChem Contract No. 68-01-6866

Instrument I.D. DWA_815 Q.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp		Resp		Resp		Resp		Resp		Resp						
		Area	RRT	Area	RRT	Area	RRT	Area	RRT	Area	RRT	Area	RRT					
H18A0109A15	0109B4	46621	.339	99352	.422	47303	.542	76466	.422	44018	.832	41227	1.000	.469	2.100	.619	1.737	1.068
H8B40109A15	0109B4	54274	.339	109833	.422	56275	.542	91749	.422	53073	.831	57294	1.000	.494	1.952	.613	1.729	.926
H8B40109A15	0109B4	55337	.339	106726	.422	53231	.542	86509	.422	48557	.832	48294	1.000	.518	2.005	.615	1.782	1.005
G8019558C15	0210B4	19486	.333	43445	.424	25295	.556	43915	.424	30880	.872	28791	1.000	.453	1.718	.576	1.422	1.073

R1 = (Resp ISA/Resp ISB)
 R2 = (Resp ISB/Resp ISC)
 R3 = (Resp ISC/Resp ISD)
 R4 = (Resp ISD/Resp ISE)
 R5 = (Resp ISE/Resp ISF)

014130

FA 29 003484

Initial Calibration Data - Semi-volatile HSL Compounds

Page 1

Case No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier DNA #15

Calibration Date - 01/09/84

Minimum Avg RRT is 0.80 Maximum Avg RRT is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
N-NITROSODIMETHYLAMINE	0.543	0.741	0.723	0.738	0.734	
BIS (2-CHLOROETHYL) ETHER	0.959	1.309	1.204	1.131	1.214	
2-CHLOROPHENOL	0.967	0.869	0.840	0.785	0.832	
PHENOL	0.943	1.395	1.334	1.243	1.324	
1,3-DICHLOROBENZENE	0.993	0.921	0.872	0.823	0.872	
1,4-DICHLOROBENZENE	1.003	1.039	0.932	0.872	0.947	
1,2-DICHLOROBENZENE	1.038	0.907	0.844	0.769	0.840	
BIS (2-CHLORISOPROPYL) ETHER	1.059	0.352	0.328	0.316	0.332	
HEXACHLOROETHANE	1.095	0.423	0.401	0.380	0.401	
N-NITROSODI-N-PROPYLAMINE	1.085	0.176	0.167	0.161	0.168	
NITROBENZENE	1.113	0.474	0.470	0.446	0.463	
ISOPHORONE	0.930	0.935	0.955	0.971	0.954	
2-NITROPHENOL	0.943	0.173	0.186	0.189	0.182	
2,4-DIMETHYLPHENOL	0.948	0.340	0.354	0.359	0.351	
BIS (2-CHLOROETHOXY) METHANE	0.964	0.618	0.601	0.602	0.607	
2,4-DICHLOROPHENOL	0.979	0.252	0.263	0.260	0.258	
1,2,4-TRICHLOROBENZENE	0.993	0.265	0.271	0.264	0.267	
1-NAPHTHALENE	1.003	1.235	1.183	1.149	1.189	
1-CHLOROBUTADIENE	1.031	0.148	0.148	0.141	0.146	
P-CHLORO-N-CRESOL	1.089	0.423	0.462	0.470	0.452	
HEXACHLOROCYCLOPENTADIENE	1.149	0.070	0.101	0.106	0.092	
2,4,6-TRICHLOROPHENOL	1.166	0.153	0.766	0.702	0.540	
2-CHLORONAPHTHALENE	0.927	1.188	1.116	1.075	1.126	
ACENAPHTHYLENE	0.980	1.393	0.793	0.861	1.016	
DIMETHYL PHTHALATE	0.970	1.439	1.419	1.143	1.334	
2,6-DINITROTOLUENE	0.980	0.413	0.433	0.438	0.428	
ACENAPHTHENE	1.004	1.218	1.155	1.142	1.172	
2,4-DINITROPHENOL	1.009	0.022	0.043	0.061	0.042	
2,4-DINITROTOLUENE	1.028	0.370	0.418	0.440	0.409	
4-NITROPHENOL	1.016	0.119	0.168	0.177	0.155	
FLUORENE	1.067	1.319	1.276	1.254	1.283	
4-CHLOROPHENYL PHENYL ETHER	1.067	0.459	0.452	0.435	0.448	
DIETHYL PHTHALATE	1.059	1.723	1.708	1.681	1.704	
4,6-DINITRO-O-CRESOL	1.080	0.055	0.082	0.104	0.080	
N-NITROSODIPHENYLAMINE	1.082	0.552	0.319	0.301	0.391	
1,2-DIPHENYLHYDRAZINE	1.087	2.712	2.511	2.610	2.611	
4-BROMOPHENYL PHENYL ETHER	0.951	0.179	0.180	0.175	0.178	
HEXACHLOROBENZENE	0.967	0.199	0.202	0.193	0.198	
PENTACHLOROPHENOL	0.986	0.070	0.099	0.102	0.091	
PHENANTHRENE	1.003	1.030	1.014	0.999	1.015	
ANTHRACENE	1.007	1.039	0.970	0.832	0.947	
DI-N-BUTYL PHTHALATE	1.065	1.494	1.723	1.679	1.699	
FLUORANTHENE	1.130	1.053	1.084	1.039	1.058	
PYRENE	0.892	1.933	1.819	1.794	1.849	
INDOLINE	0.000	0.000	0.000	0.000	0.000	

Avg RRT - Average Relative Retention Time

RF - Response Factor (amount of nanograms)

Avg RF - Average Response Factor

SPCC - System Performance Check Compounds (those compounds flagged with an *)

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F. 28

Initial Calibration Data - Semivolatile HSL Compounds

Page 2

Case No. 2333Contractor CoopuChenContract No. 68-01-6866Instrument Identifier DNA #15

Calibration Date - 01/09/84

Minimum Avg RRT is 0.80 Maximum Avg RRT is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
BUTYL BENZYL PHTHALATE	0.946	1.056	1.115	1.149	1.107	
BENZO (A) ANTHRACENE	0.998	1.408	1.355	1.497	1.420	
CHRYSENE	1.003	1.361	1.093	1.144	1.199	
3,3'-DICHLOROBENZIDINE	0.865	0.090	0.017	0.031	0.016	
BIS (2-ETHYLHEXYL) PHTHALATE	1.004	1.496	1.442	1.541	1.493	
D1-N-OCTYL PHTHALATE	1.086	2.379	2.544	2.822	2.582	
3,4-BENZOFLUORANTHENE	0.954	1.058	0.910	1.374	1.114	
BENZO (K) FLUORANTHENE	0.958	1.025	0.842	1.059	0.975	
BENZO (A) PYRENE	1.004	1.088	0.898	1.008	0.998	
INDENO (1,2,3-CD) PYRENE	1.244	0.596	0.414	0.704	0.571	
DIBENZO (A,H) ANTHRACENE	1.252	0.720	0.525	0.870	0.705	
BENZO (GHI) PERYLENE	1.316	0.976	0.640	1.027	0.881	
ANILINE	0.952	1.309	1.083	1.197	1.196	
BENZOIC ACID	0.974	0.241	0.204	0.154	0.200	
BENZYL ALCOHOL	1.030	0.520	0.569	0.561	0.550	
4-CHLOROANILINE	1.016	0.041	0.136	0.244	0.140	
DIBENZOFURAN	1.024	1.700	1.646	1.626	1.657	
2-METHYLNAPHTHALENE	1.113	0.311	0.306	0.303	0.307	
RESOL	1.052	0.872	0.795	0.744	0.804	
RESOL	1.079	0.913	0.881	0.851	0.881	
2-NITROANILINE	0.995	0.014	0.031	0.079	0.041	
3-NITROANILINE	0.945	0.346	0.461	0.480	0.429	
4-NITROANILINE	1.074	0.116	0.034	0.059	0.070	
2,4,5-TRICHLOROPHENOL	1.168	0.158	0.153	0.140	0.150	

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Avg RRT - Average Relative Retention Time

RF - Response Factor (amount of nanograms)

Avg RF - Average Response Factor

SPCC - System Performance Check Compounds (those compounds flagged with an *)

Case No. 2333Contractor CoapuChenContract No. 68-01-6866Instrument Identifier DNA #15

Calibration Date - 01/09/84

Minimum Avg RRT is 0.80 Maximum Avg RRT is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF (20)	RF (100)	RF (200)	Avg RF	SPCC
BUTYL BENZYL PHTHALATE	0.946	1.056	1.115	1.149	1.107	
BENZO (A) ANTHRACENE	0.998	1.408	1.355	1.497	1.420	
CHRYSENE	1.003	1.361	1.093	1.144	1.199	
3,3'-DICHLORO BENZIDINE	0.865	0.090	0.017	0.031	0.016	
BIS (2-ETHYLHEXYL) PHTHALATE	1.004	1.498	1.442	1.541	1.493	
DI-N-OCTYL PHTHALATE	1.086	2.379	2.544	2.822	2.582	
3,4-BENZOFLORANTHENE	0.954	1.058	0.910	1.374	1.114	
BENZO (K) FLUORANTHENE	0.958	1.025	0.842	1.059	0.975	
BENZO (A) PYRENE	1.004	1.088	0.898	1.008	0.998	
INDENO (1,2,3-CD) PYRENE	1.244	0.596	0.414	0.704	0.571	
DIBENZO (A,H) ANTHRACENE	1.252	0.720	0.525	0.870	0.705	
BENZO (GHI) PERYLENE	1.316	0.976	0.640	1.027	0.881	
ANILINE	0.952	1.309	1.083	1.197	1.196	
BENZOIC ACID	0.974	0.241	0.204	0.154	0.200	
BENZYL ALCOHOL	1.030	0.520	0.569	0.561	0.550	
4-CHLORANILINE	1.016	0.041	0.136	0.244	0.140	
DIBENZOFURAN	1.024	1.700	1.646	1.626	1.657	
2-METHYLNAPHTHALENE	1.113	0.311	0.306	0.303	0.307	
RESOL	1.052	0.872	0.795	0.744	0.804	
CREOSOL	1.079	0.913	0.881	0.851	0.881	
2-NITROANILINE	0.995	0.014	0.031	0.079	0.041	
3-NITROANILINE	0.945	0.346	0.461	0.480	0.429	
4-NITROANILINE	1.074	0.116	0.034	0.059	0.070	
2,4,5-TRICHLOROPHENOL	1.168	0.158	0.153	0.140	0.150	

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Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (those compounds flagged with an *)

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. 2333 Contractor CompuChem Contract No. 68-01-6866
 Instrument Identifier ONA 815 Calibration Date 01/09/84
 Standard File MS840210C15 Date 02/10/84 Time 03:51
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.734	0.445	-49.020		
BIS (2-CHLOROETHYL) ETHER	1.215	1.001	-19.310		
2-CHLOROPHENOL	0.831	0.831	0.000		
PHENOL	1.324	1.276	-3.690	*	
1,3-DICHLOROBENZENE	0.872	0.881	1.020		
1,4-DICHLOROBENZENE	0.947	0.938	-0.950	*	
1,2-DICHLOROBENZENE	0.840	0.871	3.620		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.318	-4.300		
HEXACHLOROETHANE	0.401	0.420	4.620		
N-NITROSODI-N-PROPYLAMINE	0.168	0.165	-1.800		**
NITROBENZENE	0.463	0.449	-3.070		
ISOPHORONE	0.954	0.880	-8.060		
2-NITROPHENOL	0.183	0.204	10.850	*	
2,4-DIMETHYLPHENOL	0.351	0.350	-0.280		
BIS (2-CHLOROETHOXY) METHANE	0.607	0.528	-13.920		
2,4-DICHLOROPHENOL	0.298	0.312	18.940	*	
1,2,4-TRICHLOROBENZENE	0.267	0.369	32.070		
NAPHTHALENE	1.189	1.139	-4.290		
HEXACHLOROBUTADIENE	0.146	0.207	34.560	*	
P-CHLORO-M-CRESOL	0.452	0.479	5.800	*	
1,2,4-TRICHLOROCYCLOPENTADIENE	0.092	0.070	-27.160		**
1,6-TRICHLOROPHENOL	0.540	0.225	-82.350	*	
2-CHLORONAPHTHALENE	1.126	1.157	2.710		
ACENAPHTHYLENE	1.015	1.657	48.050		
DIMETHYL PHTHALATE	1.334	1.573	16.440		
2,6-DINITROTOLUENE	0.428	0.339	-23.200		
ACENAPHTHENE	1.172	1.135	-3.200	*	
2,4-DINITROPHENOL	0.042	0.071	51.320		**
2,4-DINITROTOLUENE	0.409	0.516	23.130		
4-NITROPHENOL	0.155	0.172	10.390		**
FLUORENE	1.283	1.301	1.390		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.559	21.820		
DIETHYL PHTHALATE	1.704	1.671	-1.950		
4,6-DINITRO-D-CRESOL	0.080	0.150	60.860		
N-NITROSODIPHENYLAMINE	0.391	0.745	82.320	*	
1,2-DIPHENYLHYDRAZINE	2.611	2.334	-11.200		
4-BROMOPHENYL PHENYL ETHER	0.178	0.221	21.590		
HEXACHLOROBENZENE	0.198	0.295	39.350		
PENTACHLOROPHENOL	0.090	0.128	34.860	*	
PHENANTHRENE	1.014	1.082	6.480		
ANTHRACENE	0.947	1.041	9.450		
DI-N-BUTYL PHTHALATE	1.699	1.699	0.000		
FLUORANTHRENE	1.058	1.193	11.990	*	
PYRENE	1.849	1.471	-22.770		
BENZIDINE	0.000	0.000	0.000		**

014133

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Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 ZD - Percent Difference
 CCC - Calibration Check Compounds (those compounds flagged with an *)
 SPCC - System Performance Check Compounds (those compounds flagged with **)

Calibration Check Report -- Semivolatile HSL Compounds

Case No. 2333 Contractor CompuChem Contract No. 68-01-6866
 Instrument Identifier DWA #15 Calibration Date 01/09/84
 Standard File HGB40210C15 Date 02/10/84 Time 03:51
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	1.107	0.876	-23.290		
BENZO (A) ANTHRACENE	1.420	1.339	-5.870		
CHRYSENE	1.199	1.213	1.160		
3,3'-DICHLORO BENZIDINE	0.016	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.493	1.319	-12.370		
DI-N-OCTYL PHTHALATE	2.582	2.207	-15.660		
3,4-BENZOFLORANTHENE	1.114	2.204	65.700		
BENZO (K) FLUORANTHENE	0.975	2.204	77.310		
BENZO (A) PYRENE	0.998	1.055	5.550		
INDENO (1,2,3-CD) PYRENE	0.571	0.293	-64.350		
DIBENZO (A,H) ANTHRACENE	0.705	0.123	-140.570		
BENZO (GHI) PERYLENE	0.881	0.121	-151.690		
ANILINE	1.196	1.183	-1.090		
BENZOIC ACID	0.200	0.204	1.980		
BENZYL ALCOHOL	0.550	0.539	-2.020		
4-CHLORDANILINE	0.140	0.389	94.130		
DIBENZOFURAN	1.657	1.702	2.670		
2-METHYLNAPHTHALENE	0.307	0.312	1.610		
O-CRESOL	0.804	0.778	-3.280		
P-CRESOL	0.881	0.883	0.220		
2-NITROANILINE	0.044	0.040	-2.460		
4-NITROANILINE	0.429	0.496	14.480		
1-NITROANILINE	0.070	0.024	-97.870		
2,4,5-TRICHLOROPHENOL	0.150	0.222	38.700		

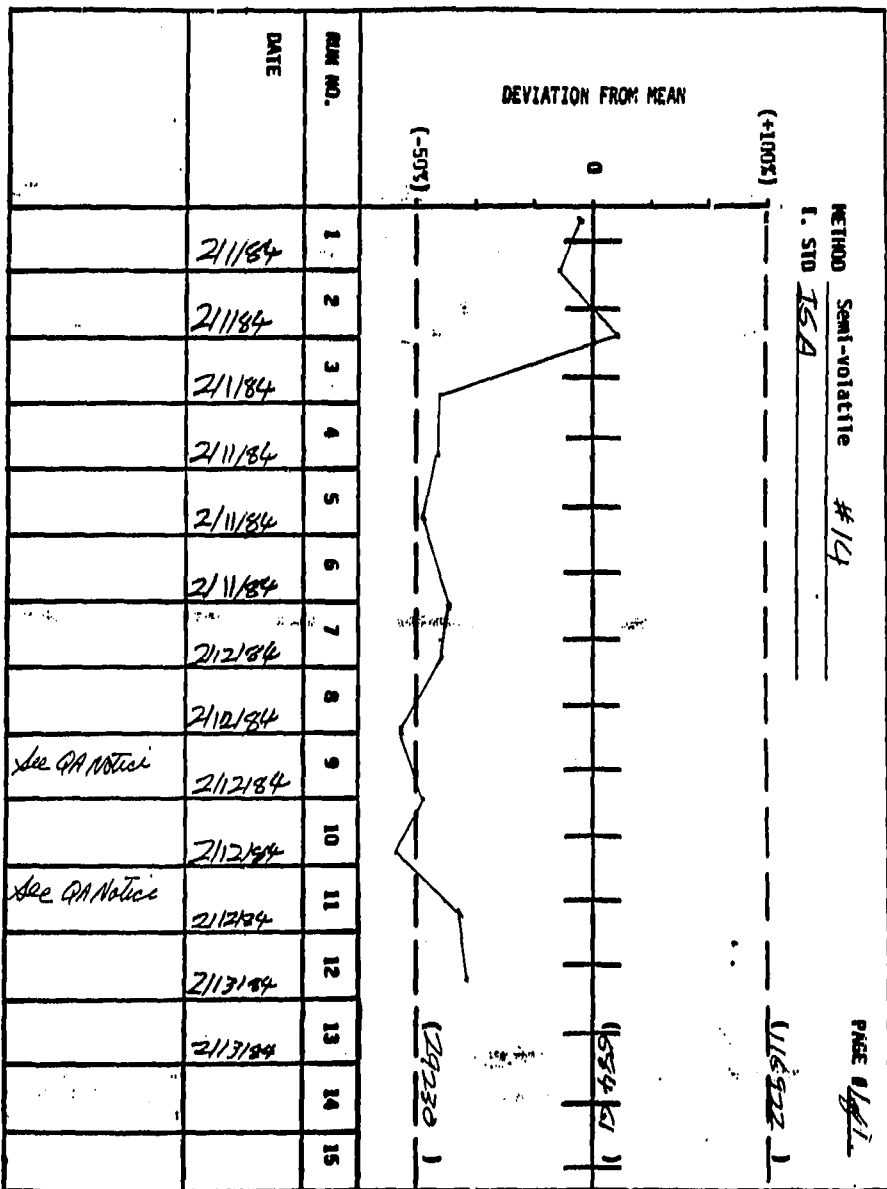
Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 ZD - Percent Difference
 CCC - Calibration Check Compounds (those compounds flagged with an *)
 SPCC - System Performance Check Compounds (those compounds flagged with **)

014134

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Semi-Volatile

	Case	2333	!
1	19559	212814	2/24/84
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005460

METHOD Seal-volatile #14

PAGE 1241

I. STD TUSA

(16922)

(+100%)

(1584/5/1)

DEVIATION FROM MEAN

(-50%)

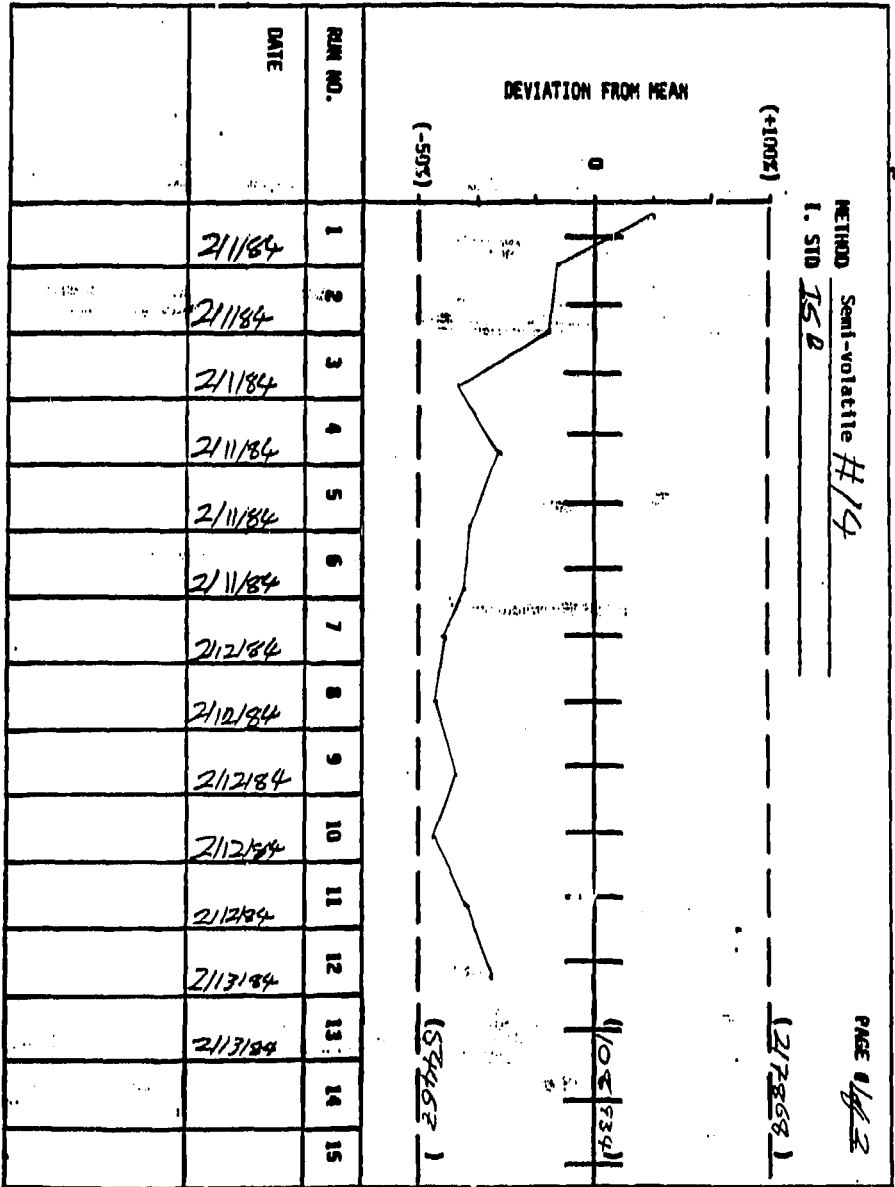
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RUN NO.	DATE
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See QA Notice

See QA Notice

014137



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005462

DATE	RUN NO.	DEVIATION FROM MEAN	
		(-50%)	(+100%)
see O.A. notice	1		
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METHOD Semi-volatile #14
 I. STD 1058

PAGE 242

014139

005463

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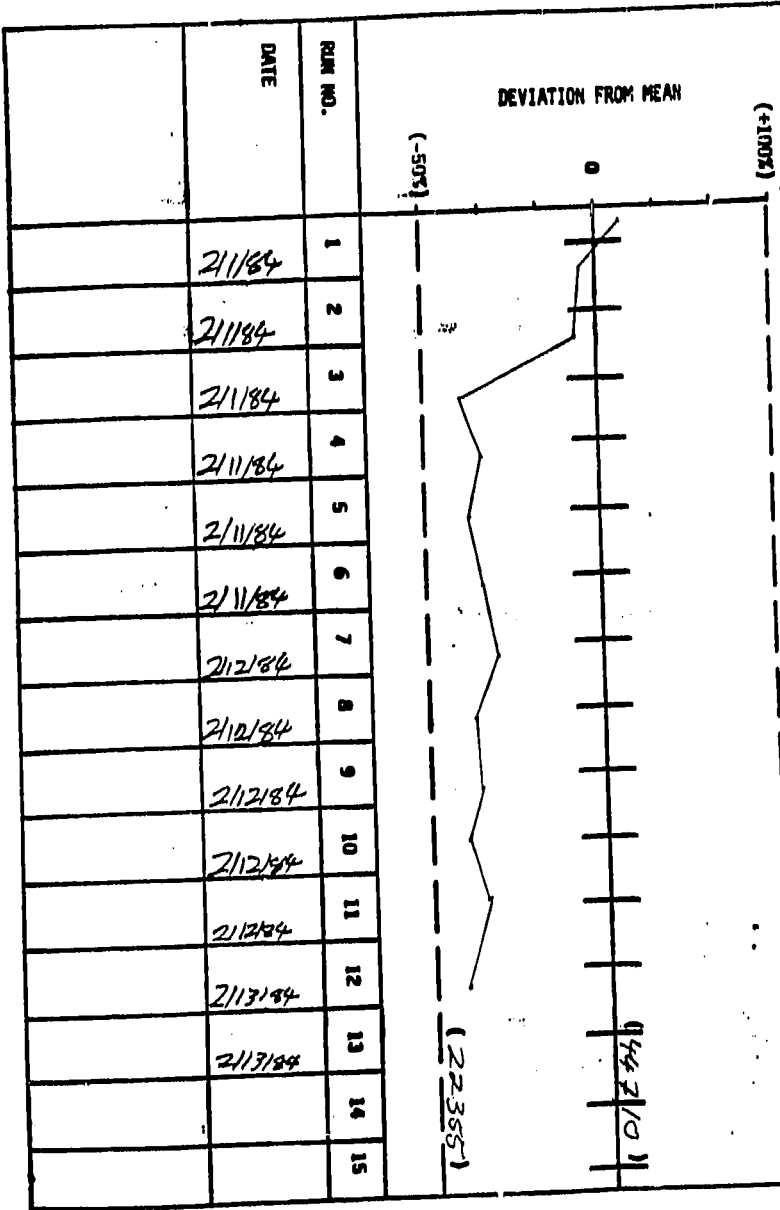
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(102 734)

(217863)

METHOD Semi-volatile #14
I. STD ISE

(894220)



014140
005464

METHOD Semi-volatile # 19

I. STD TSC

(84920)

(+100%)

DEVIATION FROM MEAN

0

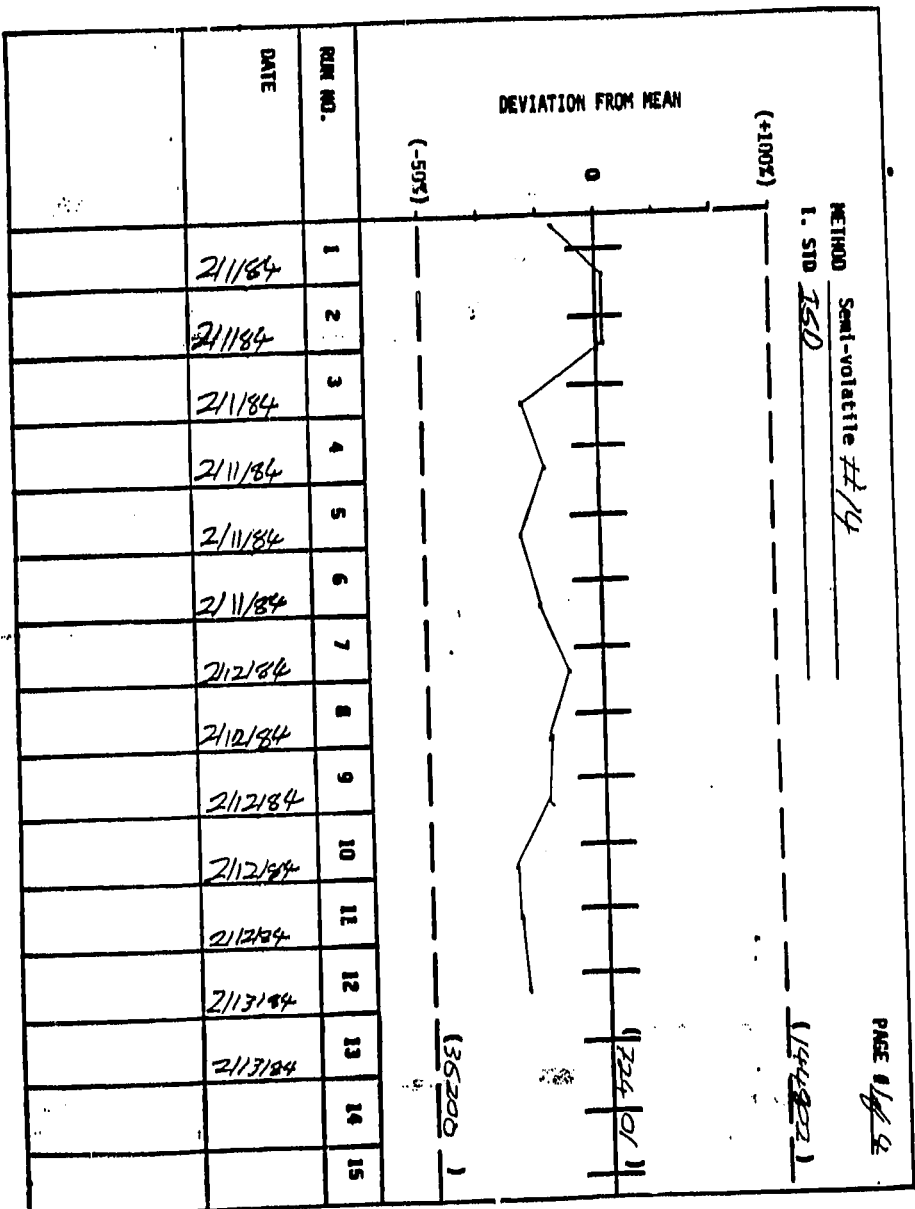
(-50%)

(22365)

RUN NO.	DATE
1	2/13/84
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014141

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014142
005406

METHOD Semi-volatile #10
 I. STD ESD

PAGE # 244

(+100%)

(144802)

DEVIATION FROM MEAN

(-50%)

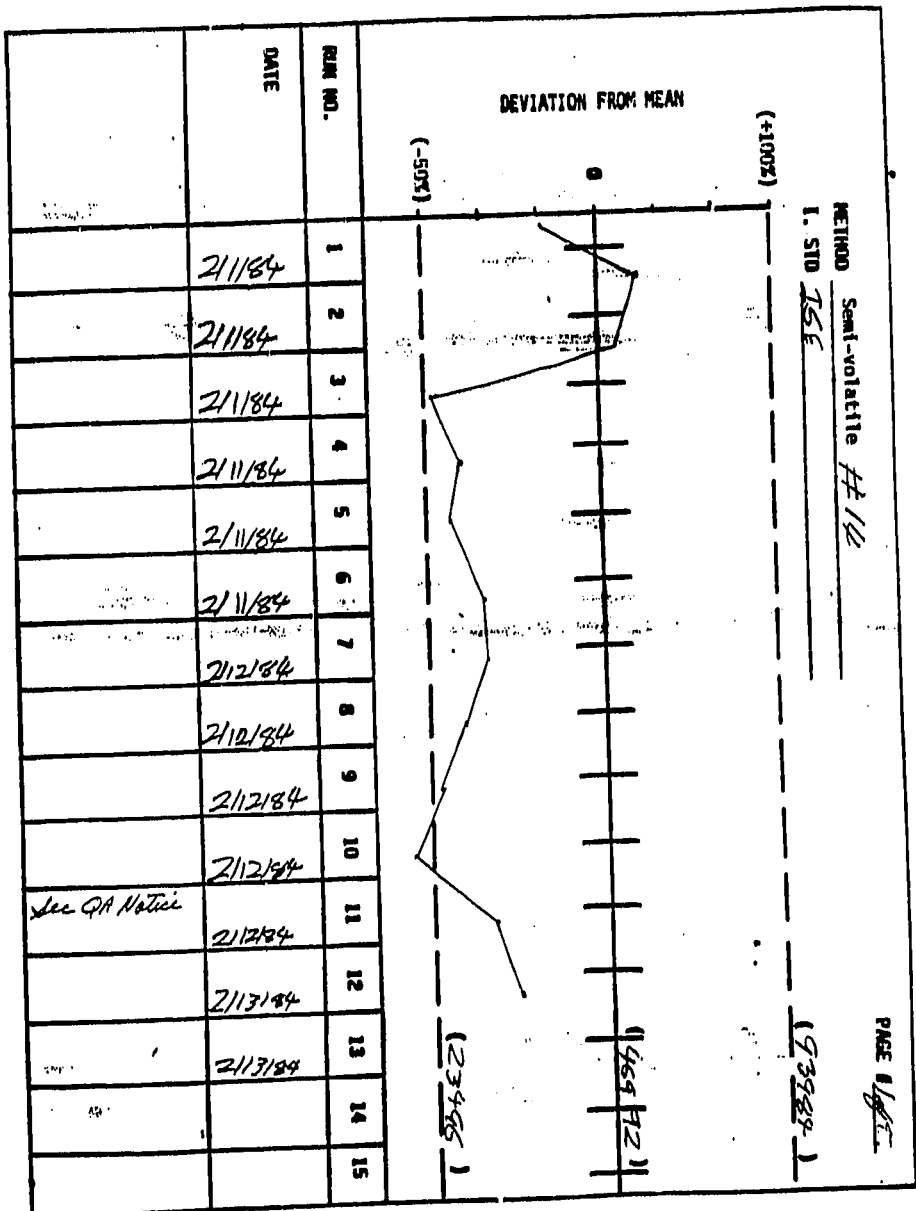
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DATE	RUN NO.	DEVIATION FROM MEAN
2/13/84	1	
2/13/84	2	
2/13/84	3	
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005487

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014143



014144
605468

(+100%)

(-50%)

DEVIATION FROM MEAN

METHOD Semi-volatile #1/4

I. STD ASE

PAGE 12/5

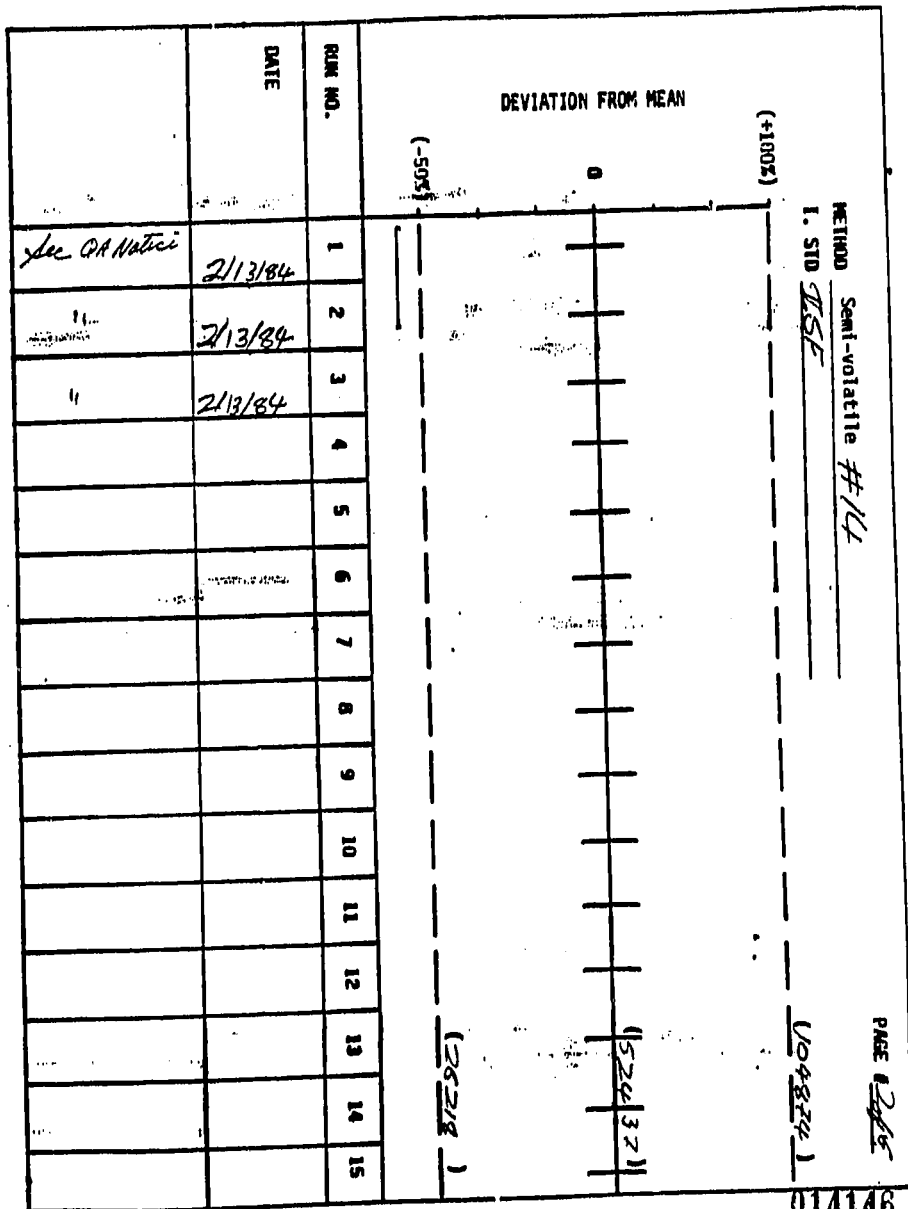


RUN NO.	DATE
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See QA Notes

014145

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005470

RUN NO.	DATE	DEVIATION FROM MEAN	
		(+100%)	(-50%)
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2	2/13/84		
3	2/13/84		
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See QA Notes

METHOD Semi-volatile #14
I. STD MSF

PAGE # 246

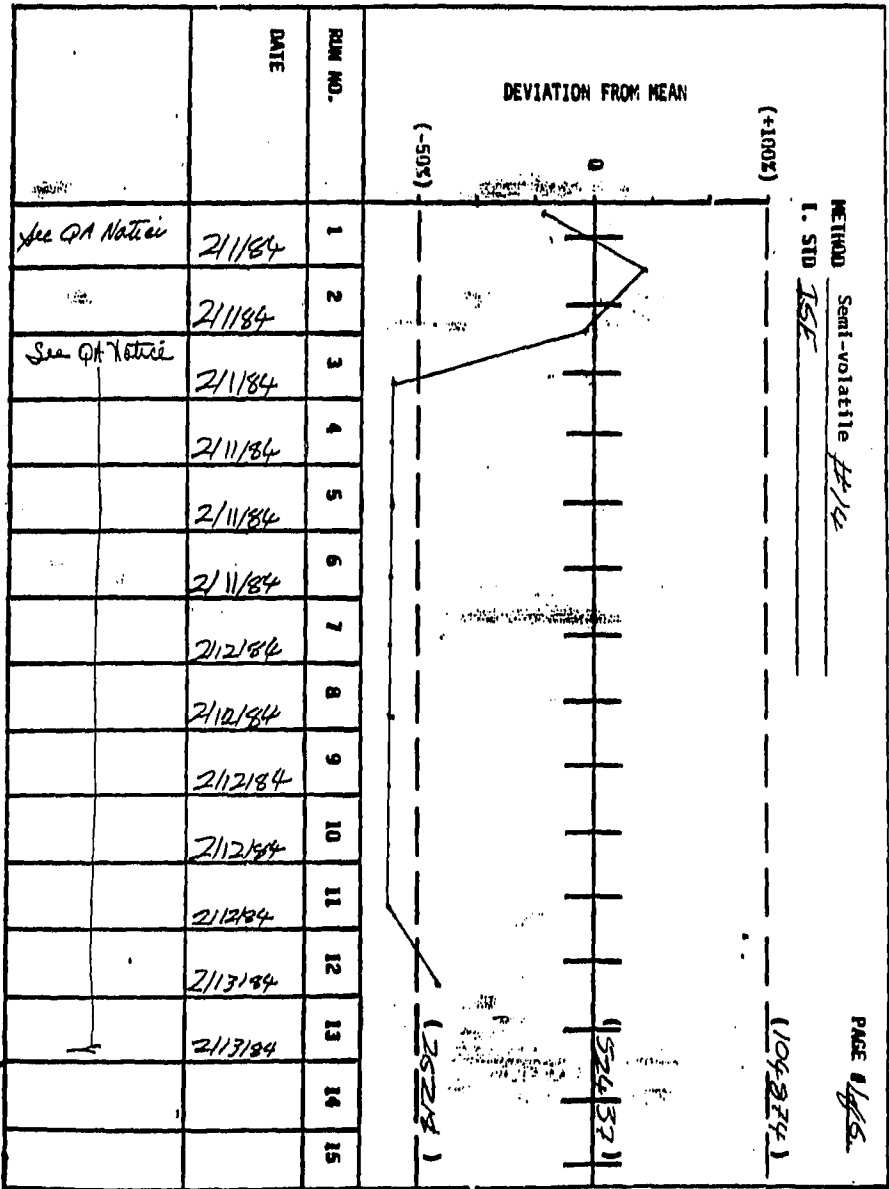
104874

(52432)

(25218)

014146

005470



014147

005471

Internal Standard Response Verification Data Sheet

Case No. 2233 Contractor CompuChem Contract No. 68-01-6967

Instrument I.D. OWA #14 Q.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT					
H1840201814	020184	58340	.305	114656	.403	46924	.549	69985	.403	40835	.894	47416	1.000	.509	2.443	.670	1.714	.861
H8840201814	020184	57311	.305	104209	.404	43964	.549	73481	.404	52036	.894	58385	1.000	.540	2.416	.698	1.412	.891
H8840201814	020184	59734	.305	105937	.404	43244	.549	73737	.404	48106	.894	51512	1.000	.564	2.450	.586	1.533	.934
H8840211814	021184	31675	.296	61835	.396	32753	.543	55654	.396	24332	.893	12855	1.000	.512	1.888	.589	2.269	1.908
G8019578814	021184	31677	.297	72596	.396	38983	.543	66886	.396	29175	.893	17040	1.000	.456	1.862	.583	2.293	1.712
G8019581814	021184	29769	.297	66510	.396	34661	.543	59622	.396	26959	.892	17044	1.000	.448	1.919	.581	2.212	1.582
H8840212814	021284	33853	.298	66323	.397	36846	.543	62458	.397	30423	.893	17422	1.000	.510	1.800	.390	2.040	1.758
G8019585814	021284	31776	.298	60125	.397	39623	.543	69849	.397	31450	.893	22844	1.000	.528	1.517	.567	2.221	1.377
G8019582814	021284	29223	.297	56180	.396	35718	.543	62849	.396	27646	.893	17781	1.000	.520	1.573	.568	2.273	1.555
G8019539814	021284	29818	.298	64700	.397	36790	.543	63006	.397	24590	.892	13555	1.000	.461	1.759	.584	2.562	1.814
G8019561814	021284	26371	.298	56366	.397	34274	.544	54811	.397	22987	.893	12611	1.000	.468	1.645	.625	2.384	1.822
H8840213814	021384	34664	.298	66877	.398	36006	.544	55711	.398	30351	.893	20984	1.000	.518	1.858	.646	1.836	1.446
H8840213814	021384	35902	.299	72335	.398	34942	.544	59355	.398	38251	.892	34995	1.000	.496	2.070	.589	1.552	1.093
G8019928814	021384	15380	.299	32698	.398	30406	.544	52083	.398	19607	.893	10463	1.000	.470	1.075	.584	2.656	1.874
G8019929814	021384	14687	.298	28596	.398	27857	.543	43642	.398	12099	.892	5229	1.000	.514	1.027	.638	3.607	2.314
G8019780814	021384	31493	.299	71459	.398	35665	.544	55240	.398	27495	.893	21319	1.000	.441	2.004	.646	2.009	1.290

- R1 = (Resp ISA/Resp ISB)
- R2 = (Resp ISB/Resp ISC)
- R3 = (Resp ISC/Resp ISD)
- R4 = (Resp ISD/Resp ISE)
- R5 = (Resp ISE/Resp ISF)

014148

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Case No. 2333Contractor CompuChemContract No. 68-01-6762Instrument Identifier DNA #14

Calibration Date - 02/01/84

Minimum Avg RRT is 0.80 Maximum Avg RRT is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
N-NITROSODIMETHYLAMINE	0.809	0.614	0.657	0.619	0.630	
BIS (2-CHLOROETHYL) ETHER	0.960	1.078	0.983	0.907	0.989	
2-CHLOROPHENOL	0.959	0.807	0.814	0.774	0.798	
PHENOL	0.951	0.998	1.151	1.075	1.075	
1,3-DICHLOROBENZENE	0.989	0.862	0.837	0.801	0.840	
1,4-DICHLOROBENZENE	1.004	0.950	0.919	0.852	0.997	
1,2-DICHLOROBENZENE	1.048	0.816	0.799	0.759	0.791	
BIS (2-CHLOROISOPROPYL) ETHER	1.093	0.225	0.209	0.203	0.213	
HEXACHLOROETHANE	1.122	0.342	0.342	0.329	0.337	
N-NITROSODI-N-PROPYLAMINE	1.128	0.118	0.124	0.100	0.114	
NITROBENZENE	1.152	0.365	0.368	0.361	0.364	
ISOPHORONE	0.919	0.678	0.725	0.707	0.703	
2-NITROPHENOL	0.933	0.151	0.162	0.179	0.164	
2,4-DIMETHYLPHENOL	0.955	0.284	0.306	0.306	0.299	
BIS (2-CHLOROETHOXY) METHANE	0.973	0.465	0.515	0.465	0.482	
2,4-DICHLOROPHENOL	0.981	0.230	0.253	0.260	0.248	
1,2,4-TRICHLOROBENZENE	0.995	0.305	0.317	0.317	0.313	
NAPHTHALENE	1.004	1.113	1.160	1.131	1.135	
HEXACHLOROCYCLOPENTADIENE	1.046	0.140	0.153	0.132	0.149	
2,4-DICHLORO-N-CRESOL	1.135	0.311	0.350	0.349	0.337	
HEXACHLOROCYCLOPENTADIENE	1.193	0.061	0.079	0.086	0.075	
2,4,6-TRICHLOROPHENOL	1.213	0.133	0.199	0.220	0.184	
2-CHLORONAPHTHALENE	0.913	1.233	1.308	1.302	1.281	
ACENAPHTHYLENE	0.975	1.608	1.212	0.966	1.262	
DIMETHYL PHTHALATE	0.979	1.319	1.471	1.497	1.429	
2,6-DINITROTOLUENE	0.966	0.215	0.268	0.291	0.256	
ACENAPHTHENE	1.005	1.107	1.051	1.059	1.072	
2,4-DINITROPHENOL	1.019	0.040	0.050	0.073	0.055	
2,4-DINITROTOLUENE	1.044	0.287	0.385	0.424	0.365	
4-NITROPHENOL	1.039	0.049	0.169	0.173	0.130	
FLUORENE	1.082	1.212	1.308	1.325	1.282	
4-CHLOROPHENYL PHENYL ETHER	1.088	0.456	0.516	0.526	0.499	
DIETHYL PHTHALATE	1.088	1.599	1.553	1.754	1.635	
4,6-DINITRO-D-CRESOL	1.104	0.078	0.081	0.121	0.094	
N-NITROSODIPHENYLAMINE	1.109	0.578	0.292	0.354	0.408	
1,2-DIPHENYLHYDRAZINE	1.111	1.711	1.862	1.793	1.788	
4-BROMOPHENYL PHENYL ETHER	0.950	0.165	0.177	0.178	0.173	
HEXACHLOROBENZENE	0.963	0.236	0.222	0.242	0.233	
PENTACHLOROPHENOL	0.988	0.087	0.123	0.129	0.113	
PHENANTHRENE	1.003	1.148	1.211	1.230	1.196	
ANTHRACENE	1.008	0.980	0.950	0.911	0.947	
DI-N-BUTYL PHTHALATE	1.095	1.584	1.677	1.625	1.629	
FLUORANTHENE	1.152	1.043	1.161	1.119	1.108	
PYRENE	0.884	1.827	1.691	1.550	1.689	
BENZIDINE	0.000	0.000	0.000	0.000	0.000	

RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (those compounds flagged with an *)

014149

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Case No. 2333Contractor CompuChemContract No. 68-01-632Instrument Identifier DWA 014

Calibration Date - 02/01/84

Minimum Avg RRT is 0.80 Maximum Avg RRT is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
BUTYL BENZYL PHTHALATE	0.960	1.014	0.953	0.961	0.976	
BENZO (A) ANTHRACENE	0.990	1.425	1.442	1.436	1.434	
CHRYSENE	1.002	1.196	1.070	1.066	1.111	
3,3'-DICHLORODENZIDINE	1.004	0.057	0.054	0.051	0.054	
BIS (2-ETHYLHEXYL) PHTHALATE	1.019	1.418	1.297	1.274	1.330	
DI-N-OCTYL PHTHALATE	1.075	2.243	2.046	2.148	2.145	
3,4-BENZOFLUORANTHENE	0.978	1.216	1.241	1.367	1.275	
BENZO (K) FLUORANTHENE	0.980	0.933	0.898	0.826	0.886	
BENZO (A) PYRENE	1.002	1.087	1.047	0.918	1.017	
INDENO (1,2,3-CD) PYRENE	1.107	1.035	0.866	0.883	0.928	
DIBENZO (A,H) ANTHRACENE	1.111	0.876	0.839	0.810	0.842	
BENZO (GHI) PERYLENE	1.137	0.959	0.898	0.875	0.911	
ANILINE	0.953	1.078	0.983	0.960	1.007	
BENZOIC ACID	1.005	0.225	0.033	0.153	0.137	
BENZYL ALCOHOL	1.051	0.427	0.499	0.471	0.466	
4-CHLORANILINE	1.032	0.039	0.141	0.205	0.128	
DIBENZOFURAN	1.029	1.709	1.638	1.775	1.707	
2-METHYLNAPHTHALENE	1.145	0.222	0.245	0.236	0.234	
RESOL	1.092	0.639	0.634	0.584	0.619	
RESOL	1.120	0.694	0.723	0.683	0.700	
2-NITROANILINE	1.001	0.010	0.036	0.058	0.034	
3-NITROANILINE	0.942	0.408	0.469	0.525	0.467	
4-NITROANILINE	1.095	0.008	0.030	0.018	0.019	
2,4,5-TRICHLOROPHENOL	1.220	0.145	0.152	0.153	0.150	

014150

Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (those compounds flagged with an *)

29

003494

Calibration Check Report - Semi-volatile HSL Compounds

Page 1

Case No. 2333
 Instrument Identifier ONA #14
 Standard File H6840212B14
 Allowance for CCD is 20.00

Contractor CompuChem
 Minimum RF for SPCC is 0.050

Contract No. 66-01-6362
 Calibration Date 02/01/84
 Date 02/12/84 Time 17:08

Compound	Avg RF	RF	ZD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.630	0.318	-65.820		
BIS (2-CHLOROETHYL) ETHER	0.989	0.745	-28.140		
2-CHLOROPHENOL	0.798	0.689	-14.660		
PHENOL	1.075	0.777	-32.180		
1,3-DICHLOROBENZENE	0.840	0.841	0.110		
1,4-DICHLOROBENZENE	0.907	0.925	1.960		
1,2-DICHLOROBENZENE	0.791	0.848	6.950		
BIS (2-CHLOROISOPROPYL) ETHER	0.212	0.218	2.790		
HEXACHLOROETHANE	0.337	0.292	-14.300		
N-NITROSODI-N-PROPYLAMINE	0.114	0.126	10.000		**
NITROBENZENE	0.365	0.387	5.650		
ISOPHORONE	0.703	0.562	-22.290		
2-NITROPHENOL	0.164	0.165	0.600		
2,4-DIMETHYLPHENOL	0.299	0.273	-9.090		
BIS (2-CHLOROETHOXY) METHANE	0.481	0.396	-19.380		
2,4-DICHLOROPHENOL	0.248	0.289	8.120		
1,2,4-TRICHLOROBENZENE	0.313	0.371	16.730		
NAPHTHALENE	1.135	1.127	-0.700		
HEXACHLOROBTADIENE	0.148	0.193	26.390		
P-CHLORO-N-CRESOL	0.337	0.334	-0.890		
HEXACHLOROCYCLOPENTADIENE	0.075	0.095	23.320		**
1,2,4-TRICHLOROPHENOL	0.184	0.199	7.830		
1-BROMONAPHTHALENE	1.281	1.210	-5.700		
ACENAPHTHYLENE	1.262	0.938	-29.450		
DIMETHYL PHTHALATE	1.429	1.355	-5.310		
2,6-DINITROTOLUENE	0.258	0.265	2.670		
ACENAPHTHENE	1.072	1.136	5.790		
2,4-DINITROPHENOL	0.054	0.067	21.480		**
2,4-DINITROTOLUENE	0.365	0.344	-5.920		
4-NITROPHENOL	0.130	0.075	-53.650		**
FLUORENE	1.282	1.263	-1.490		
4-CHLOROPHENYL PHENYL ETHER	0.499	0.552	10.080		
DIETHYL PHTHALATE	1.635	1.408	-14.910		
4,6-DINITRO-O-CRESOL	0.093	0.121	26.160		
N-NITROSODIPHENYLAMINE	0.408	0.337	-19.060		*
1,2-DIPHENYLHYDRAZINE	1.789	1.340	-28.690		
4-BROMOPHENYL PHENYL ETHER	0.173	0.202	15.460		
HEXACHLOROBENZENE	0.233	0.270	14.710		
PENTACHLOROPHENOL	0.113	0.111	-1.780		
PHENANTHRENE	1.196	1.072	-10.930		
ANTHRACENE	0.947	1.001	5.540		
DI-N-BUTYL PHTHALATE	1.629	1.344	-19.170		
FLUORANTHENE	1.108	1.018	-8.460		
PYRENE	1.689	2.104	21.880		
BENZIDINE	0.000	0.000	0.000		**

Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 - Percent Difference
 * - Calibration Check Compounds (those compounds flagged with an *)
 SPCC - System Performance Check Compounds (those compounds flagged with **)

014151

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Calibration Check Report - Semi-volatile HSL Compounds

Page 2

Case No. 2333
 Instrument Identifier ONA #14
 Standard File HGB40212B14
 Minimum RD for CCC is 20.00

Contractor CompuChem
 Minimum RF for SPC is 0.050

Contract No. 68-01-6762
 Calibration Date 02/01/84
 Date 02/12/84 Time 17:08

Compound	Avg RF	RF	RD	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.976	0.981	0.510		
BENZO (A) ANTHRACENE	1.434	1.274	-11.810		
CHRYSENE	1.111	1.138	2.400		
3,3'-DICHLOROBENZIDINE	0.054	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.330	1.535	14.310		
DI-N-OCTYL PHTHALATE	2.145	2.311	7.450	*	
3,4-BENZOFLUDRANTHENE	1.274	1.308	2.630		
BENZO (K) FLUORANTHENE	0.886	1.256	34.540		
BENZO (A) PYRENE	1.017	1.030	1.270	*	
INDENO (1,2,3-CD) PYRENE	0.928	0.651	-35.080		
DIBENZO (A,H) ANTHRACENE	0.842	0.483	-54.180		
BENZO (GHI) PERYLENE	0.911	0.555	-48.560		
ANILINE	1.007	0.745	-29.900		
BENZOIC ACID	0.137	0.157	13.600		
BENZYL ALCOHOL	0.466	0.316	-38.360		
4-CHLOROANILINE	0.128	0.096	-28.570		
BENZOFURAN	1.707	1.708	0.050		
2-METHYLNAPHTHALENE	0.234	0.268	13.540		
O-CRESOL	0.619	0.551	-11.620		
P-CRESOL	0.700	0.624	-11.480		
2-NITROANILINE	0.033	0.019	-59.250		
1-NITROANILINE	0.467	0.368	-23.710		
3-NITROANILINE	0.019	0.032	59.980		
2,4,5-TRICHLOROPHENOL	0.150	0.219	37.390		

Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 % - Percent Difference
 CCC - Calibration Check Compounds (those compounds flagged with an *
 SPCC - System Performance Check Compounds (those compounds flagged with **)

014152

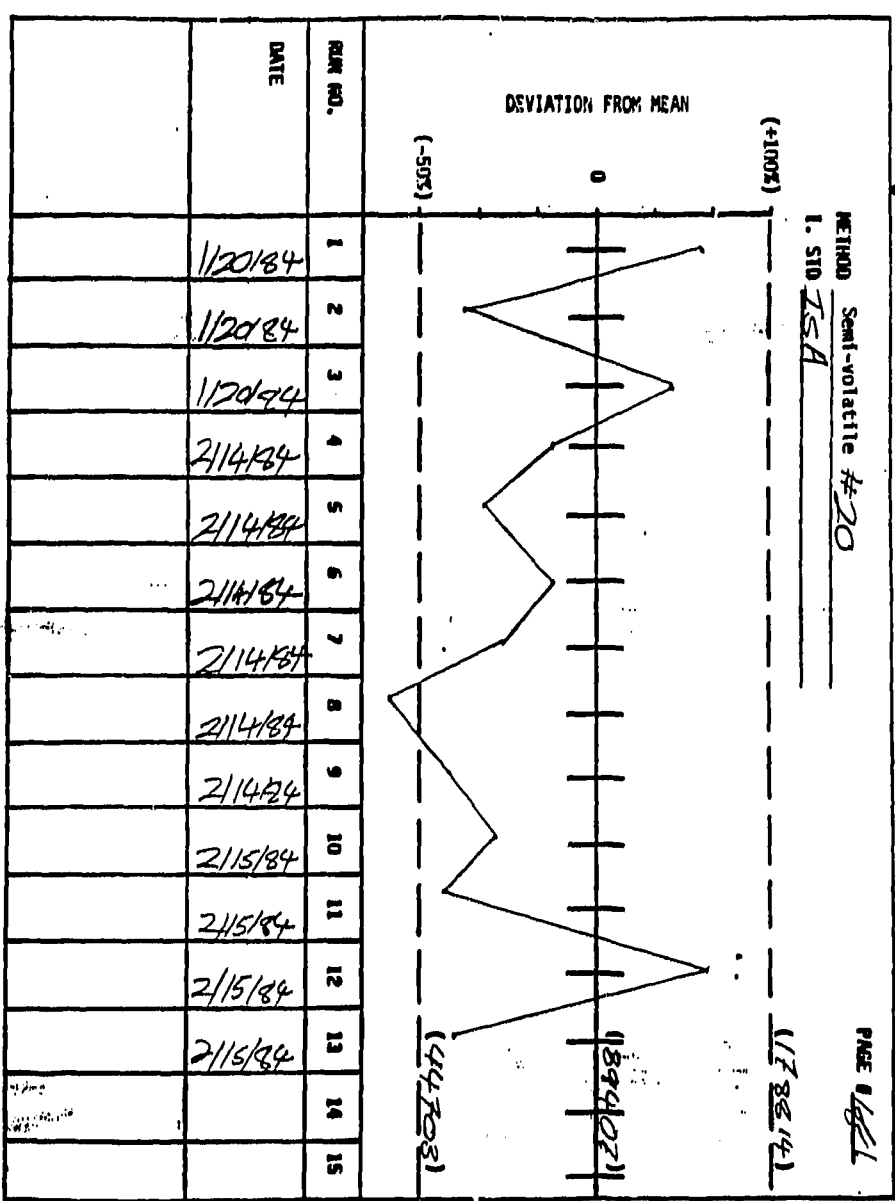
005476

Semi-Volatile

	Case 2333	Use Note	
1	19722	214 B20	2/28/84
2	19722	214 B20	2/28/84
3	19706	216 B20	2/28/84
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31			014153
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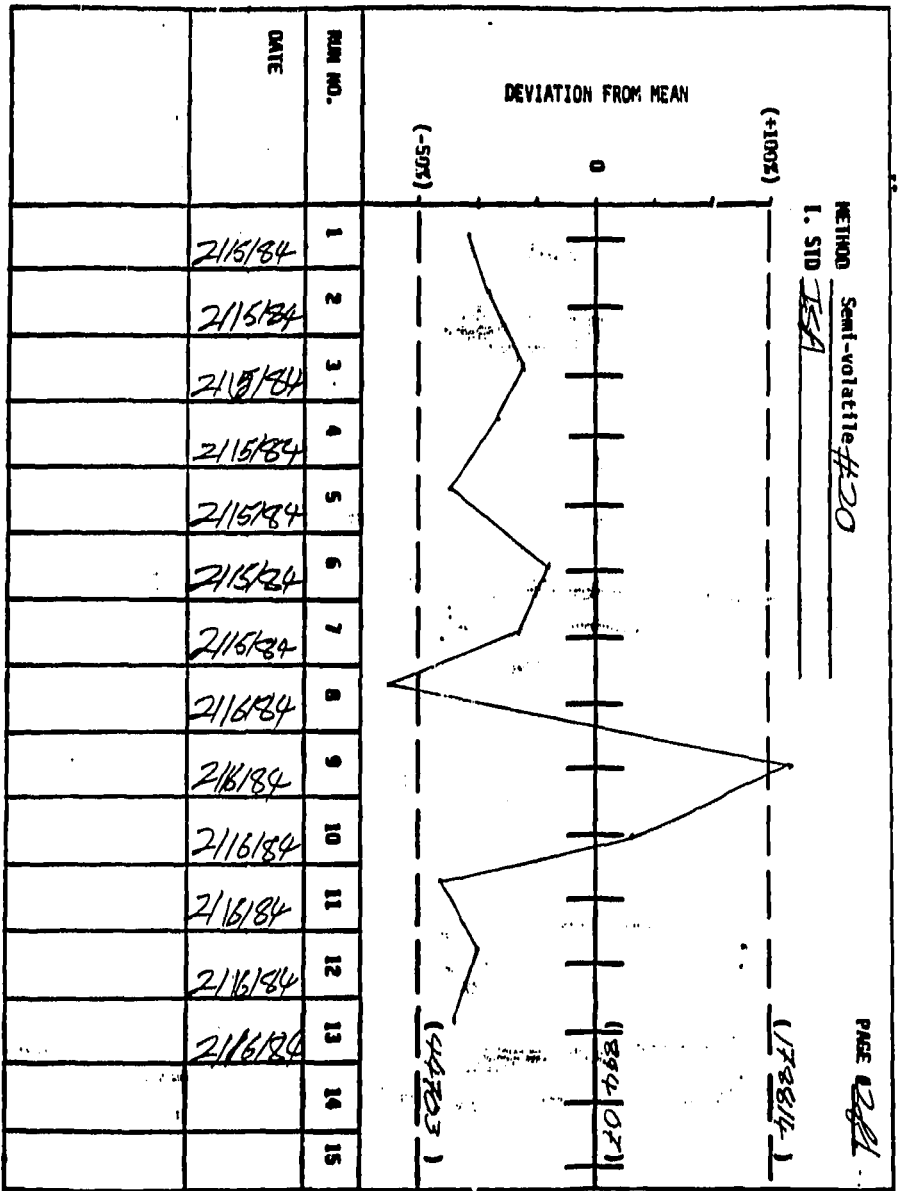
METHOD Semi-volatile #20
 I. STD ISA

PAGE 0/1



014154

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014155

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METHOD Semi-volatile #2e
I. STD ISA

V78814-1

PAGE 331

DEVIATION FROM MEAN

(+100%)

0

(-50%)



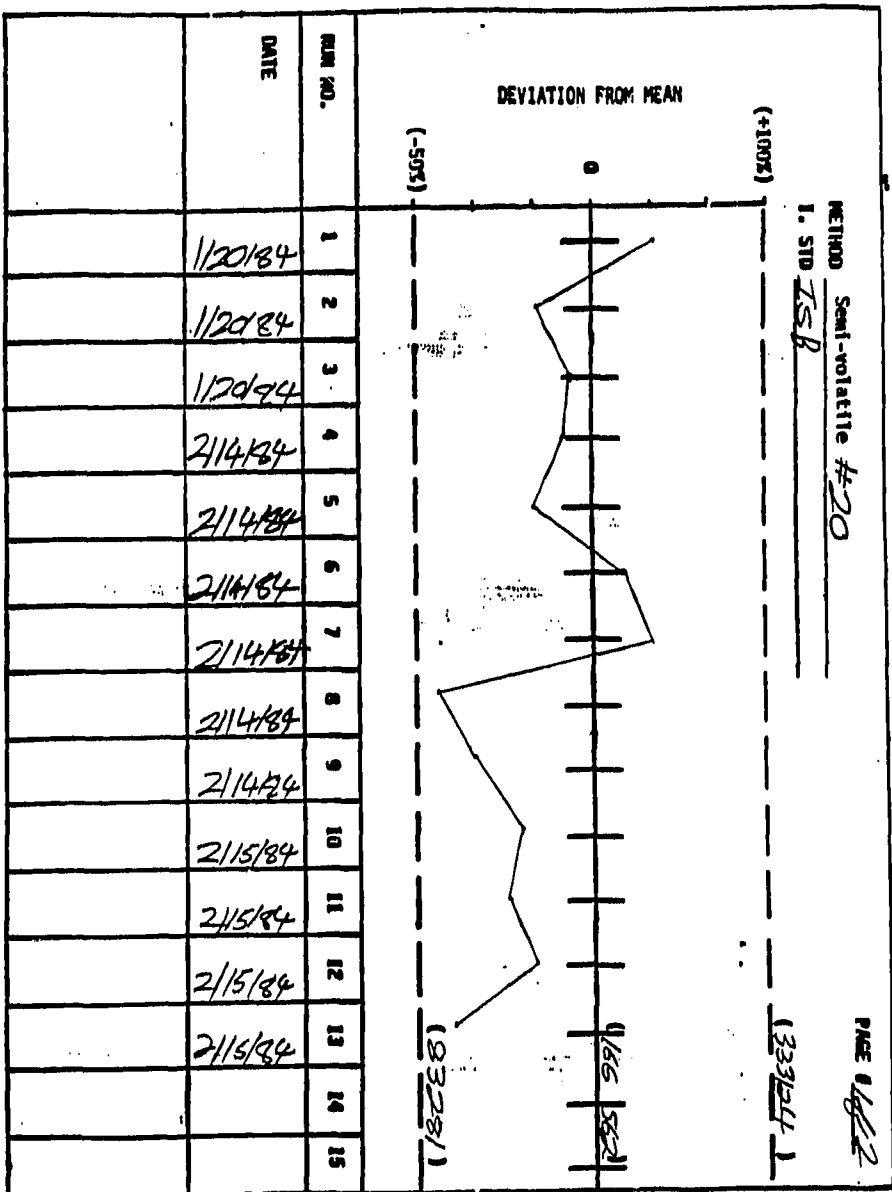
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DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<u>2/16/84</u>															

014156

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014157

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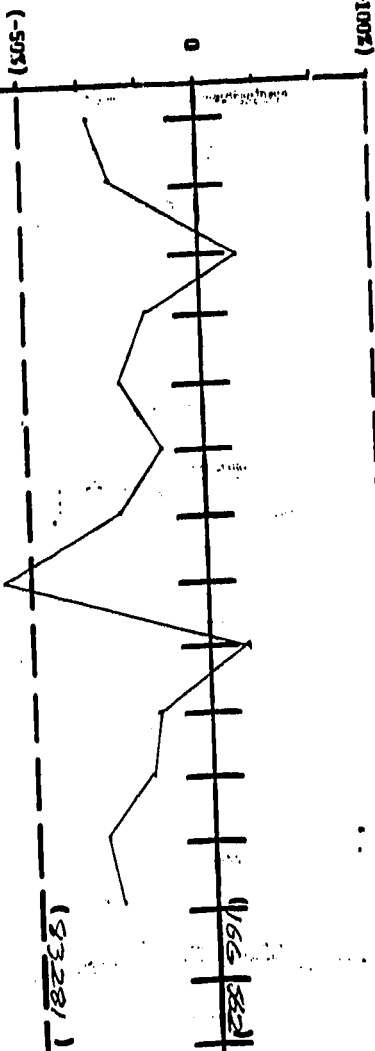
METHOD Semi-volatile #20

1. STD ISB

(333284)

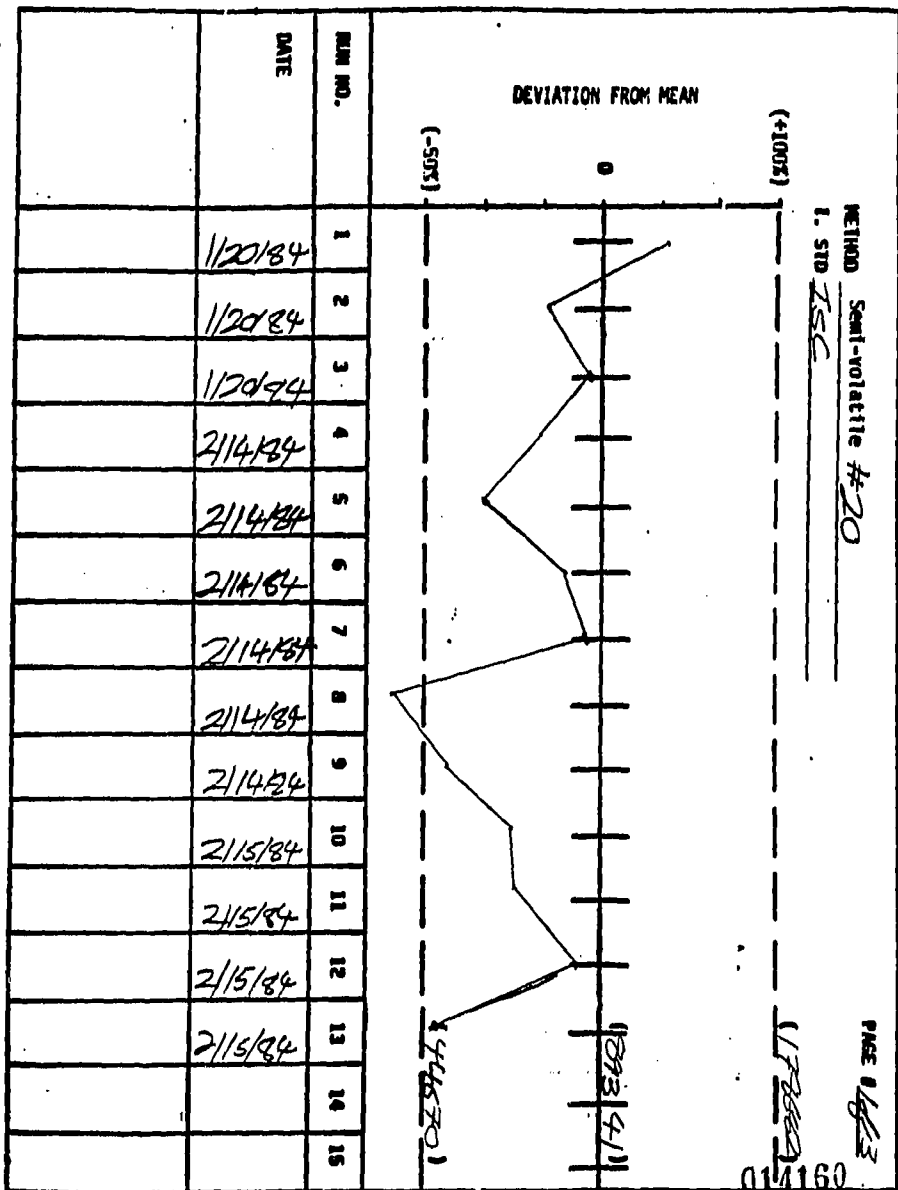
PAGE 1282

DEVIATION FROM MEAN



DATE	RUN NO.
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2/15/84	2
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2/15/84	4
2/15/84	5
2/15/84	6
2/15/84	7
2/16/84	8
2/16/84	9
2/16/84	10
2/16/84	11
2/16/84	12
2/16/84	13
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027410



00548A

METHOD Semi-volatile #20

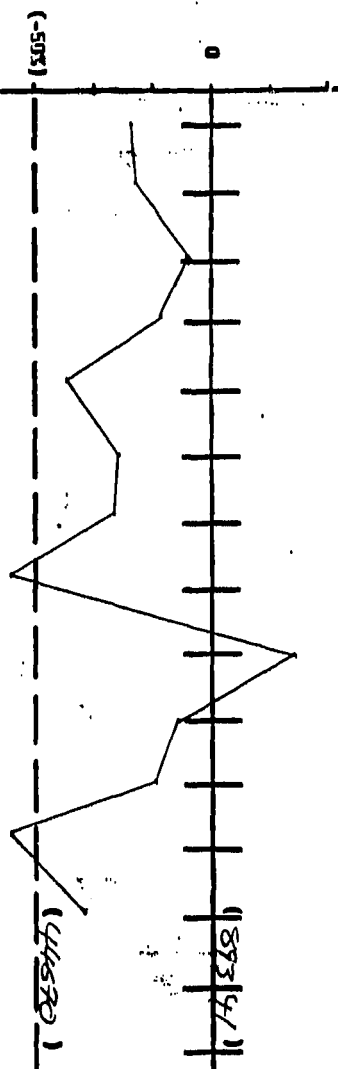
I. STD ISC

PAGE 1283

(+100%)

1708221

DEVIATION FROM MEAN



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2/15/84	3
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2/15/84	5
2/15/84	6
2/15/84	7
2/16/84	8
2/16/84	9
2/16/84	10
2/16/84	11
2/16/84	12
2/16/84	13
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014161

METHOD Semi-volatile #20

PAGE 373

I. STD IC

(178882)

(+100%)

DEVIATION FROM MEAN

(-50%)



(29341)

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<u>2/16/84</u>															

005486

014162 89

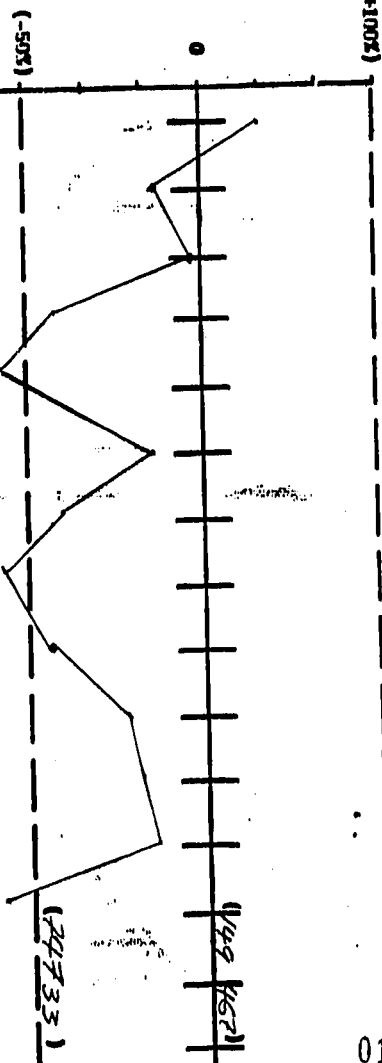
METHOD Semi-volatile #20

I. STD ISD

PAGE 1/1

014163

DEVIATION FROM MEAN



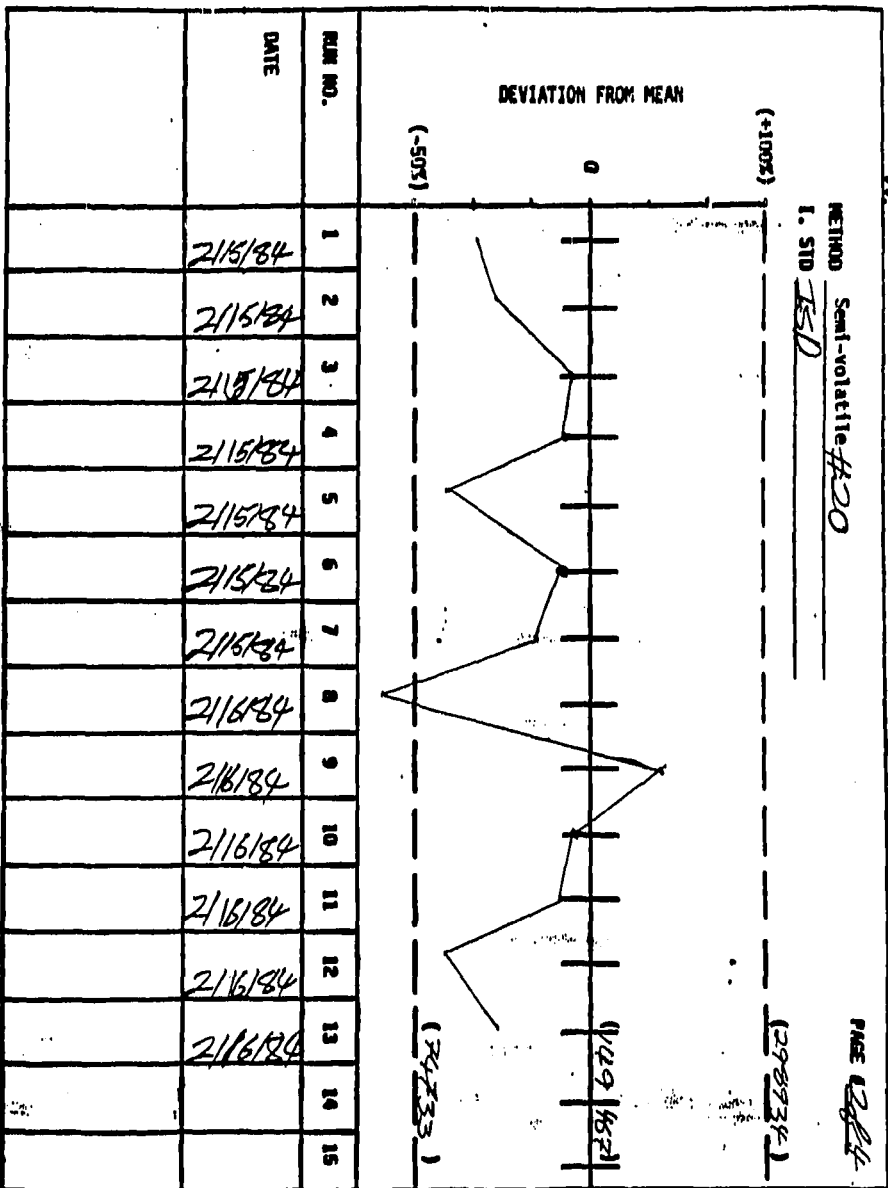
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1/20/84	3
2/14/84	4
2/14/84	5
2/14/84	6
2/14/84	7
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2/14/84	9
2/15/84	10
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2/15/84	13
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005487

METHOD Semi-volatile #20
 I. STD ISD

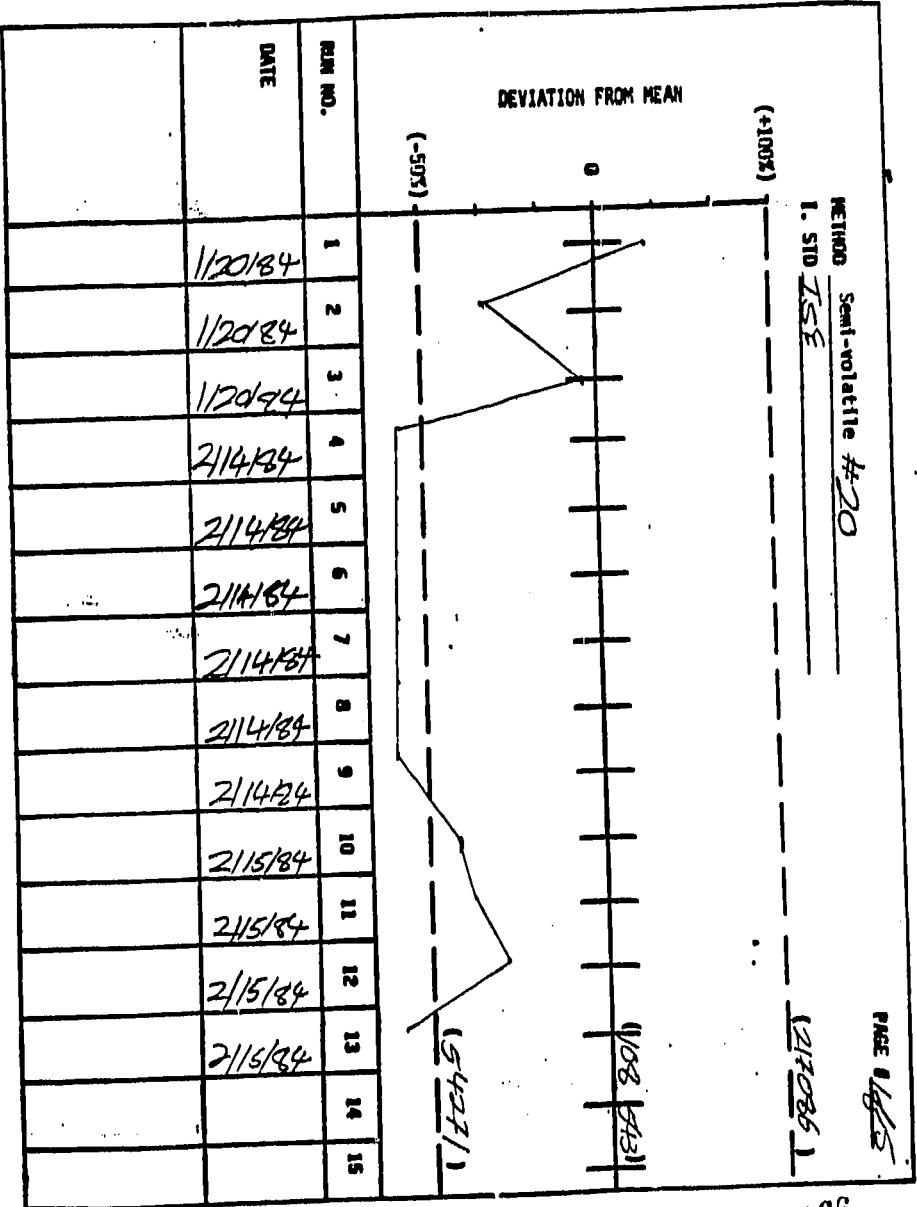
PAGE 1284

(29-89234)



003488

29 014164

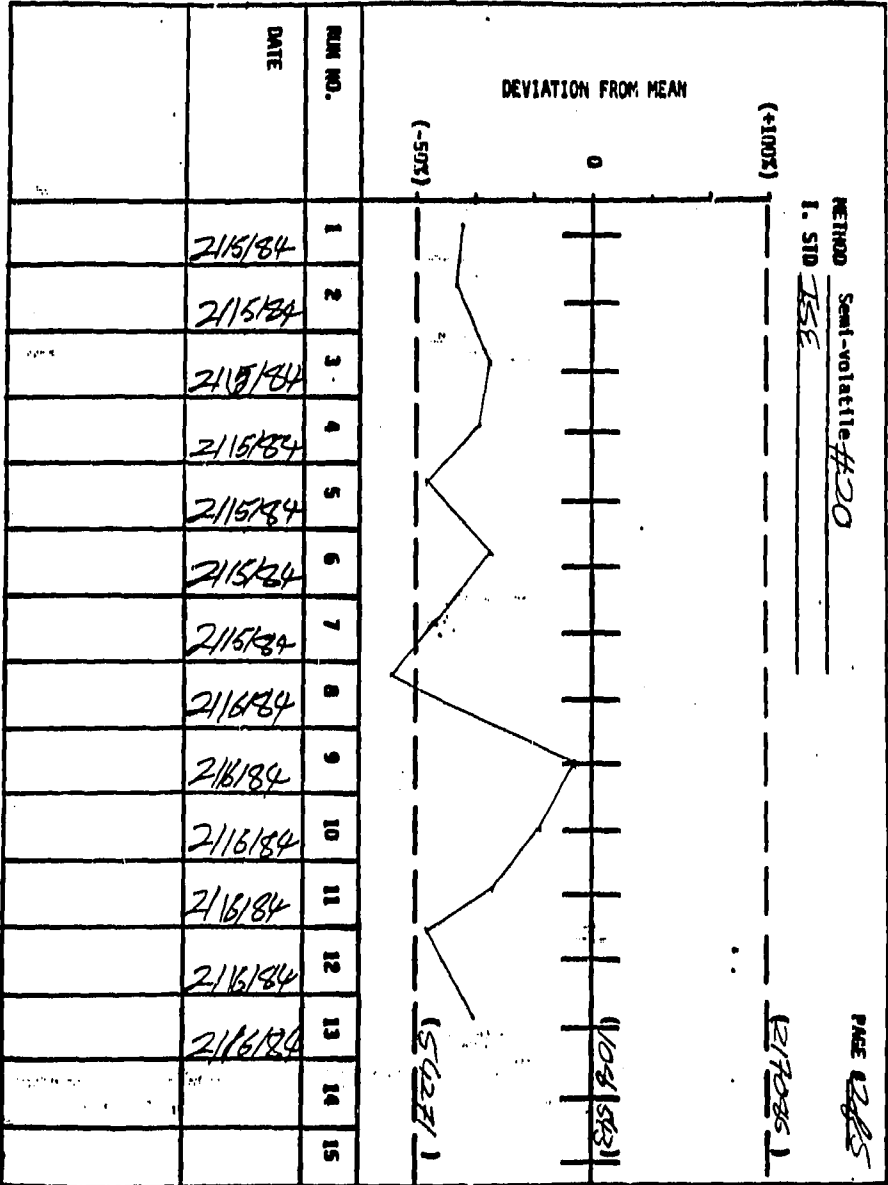


014166

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METHOD Semi-volatile #20
 I. STD 153

PAGE 285



014167 005491
 29

METHOD Semi-volatile #20
 I. STD ISS

PAGE 1345

(+100%)

(2/20/84)

DEVIATION FROM MEAN

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(108/85/11)

(-50%)

(592/71)

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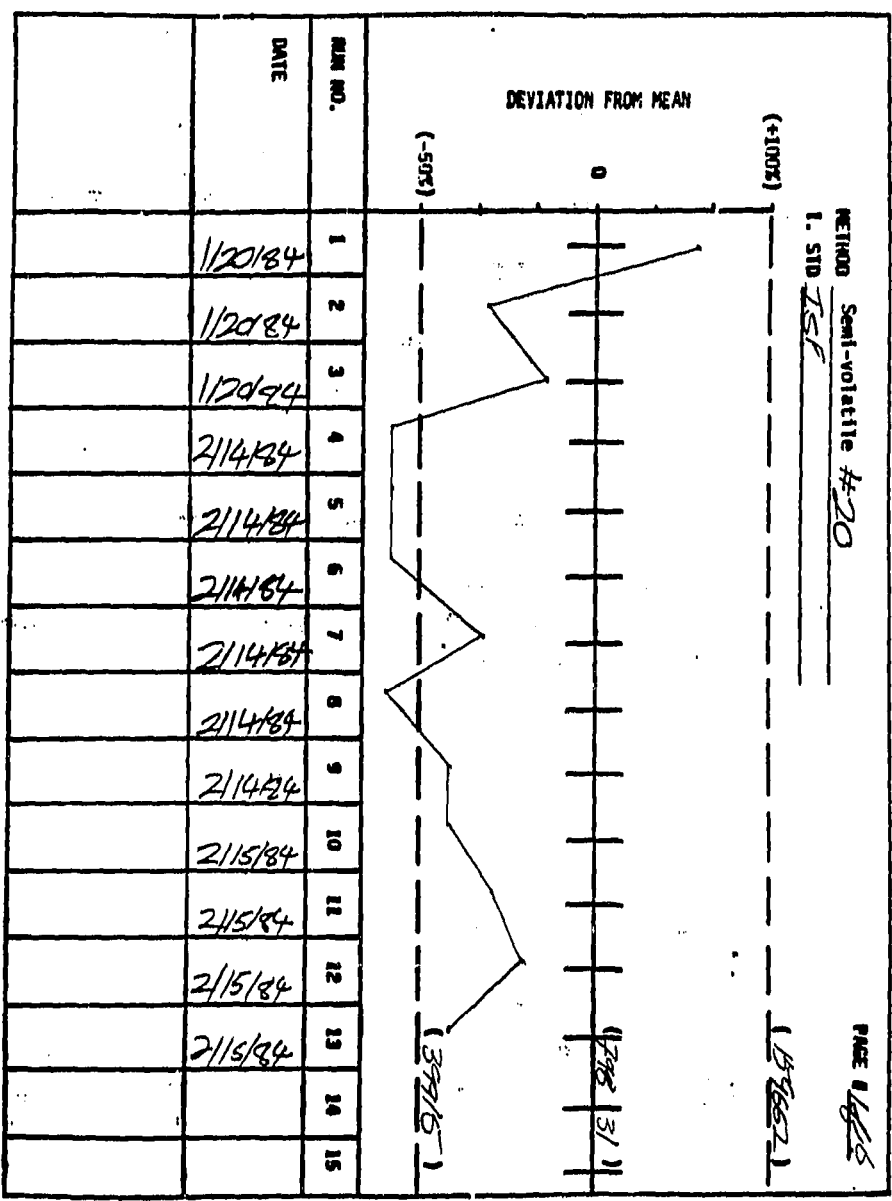
METHOD Semi-volatile #20
 I. SID ISF

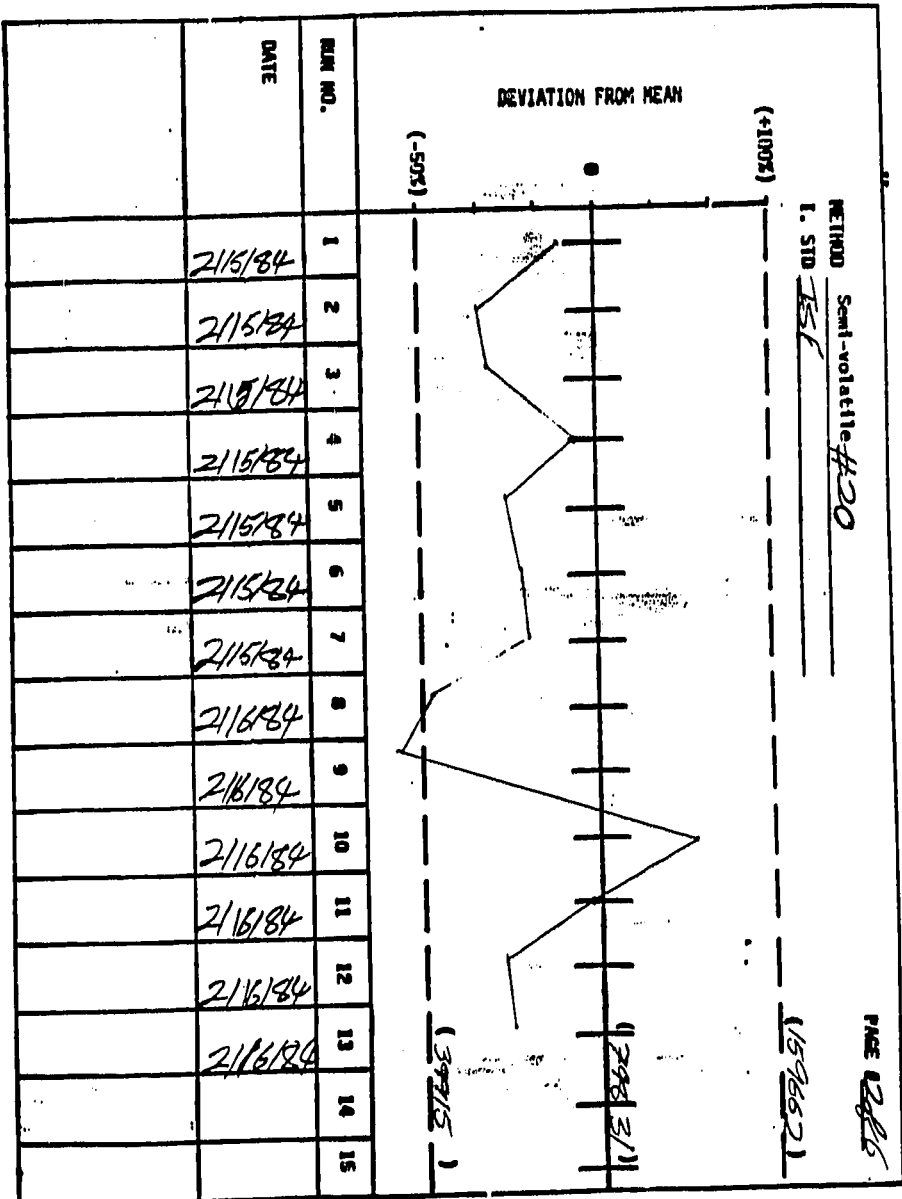
PAGE 1/15

(159622)

014169

005492





014170
003494

METHOD Semi-volatile #20
I. STD ISF

PAGE # 346

159622

DEVIATION FROM MEAN

(+100%)

0

(-50%)



(392/5)

NUM NO.	DATE
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1 2 3

Internal Standard Response Verification Data Sheet

Page 1

Case No. 2333 Contractor CompuChem Contract No. 68-01-6256

Instrument I.D. OWA 420 Q.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT					
H1840120C20	012084	110493	.328	201996	.409	111067	.527	184539	.409	141285	.819	119830	1.000	.547	1.819	.602	1.304	1.179
H1840120C20	012084	56161	.327	136533	.408	69761	.527	115852	.408	76701	.819	50000	1.000	.411	1.957	.602	1.510	1.370
H1840120C20	012084	101568	.325	161158	.407	47196	.526	148910	.407	107645	.818	63665	1.000	.630	1.848	.589	1.375	1.691
H1840214C20	021484	81122	.324	168448	.414	68598	.547	89984	.414	45404	.860	28291	1.000	.506	2.339	.762	1.482	1.605
G1019853C20	021484	59269	.319	130241	.410	51612	.545	71125	.410	25448	.859	20961	1.000	.453	2.523	.726	2.795	1.214
G1019856C20	021484	81267	.327	171460	.417	75907	.547	114446	.417	45211	.860	36653	1.000	.474	2.259	.663	2.531	1.233
G119861C20	021484	67070	.335	195383	.423	86665	.553	79837	.423	49508	.859	56233	1.000	.343	2.254	1.086	1.813	.880
H19560A20	021484	40416	.327	99660	.416	41212	.547	60481	.416	27914	.860	30596	1.000	.406	2.418	.681	2.167	.912
H1840214B20	021484	54253	.331	110509	.419	49184	.551	76818	.419	49422	.862	45990	1.000	.491	2.247	.640	1.554	1.075
B101972C20	021584	66872	.329	144659	.418	67339	.548	109289	.418	50001	.860	44450	1.000	.462	2.148	.616	1.884	1.305
G1020117C20	021584	53223	.329	135159	.417	67382	.548	110974	.417	49343	.861	57647	1.000	.394	2.006	.607	1.596	1.206
H18402119C20	021584	112327	.329	148498	.417	77139	.549	123075	.417	76864	.862	64304	1.000	.756	1.925	.627	1.601	1.195
H1840215C20	021584	48040	.321	96368	.411	45167	.544	73478	.411	53549	.857	41819	1.000	.499	2.134	.615	1.372	1.280
G1020119A20	021584	54911	.336	122329	.433	60323	.563	96236	.433	63618	.858	70464	1.000	.449	2.028	.627	1.513	.903
G1020276A20	021584	60116	.322	129399	.411	61278	.546	99843	.411	61365	.859	56144	1.000	.465	2.112	.614	1.627	1.093
G1020283A20	021584	72668	.319	173923	.408	81006	.544	131792	.408	79421	.860	57320	1.000	.418	2.070	.637	1.659	1.386
G1020284A20	021584	64891	.322	155987	.412	76561	.547	121816	.412	73120	.860	72465	1.000	.416	2.037	.628	1.666	1.011
H1840215B20	021584	46827	.321	112296	.412	52577	.546	82789	.412	56712	.860	59949	1.000	.417	2.136	.635	1.460	.946
G1020293B20	021584	73612	.325	140144	.412	62600	.552	126386	.412	74476	.859	61153	1.000	.525	2.239	.495	1.692	1.221
G1020295B20	021584	62276	.320	127872	.411	61583	.547	101017	.411	59599	.861	62311	1.000	.487	2.076	.610	1.695	.956
H1840216C20	021684	41144	.321	81688	.412	39907	.548	67064	.412	66217	.862	49987	1.000	.504	2.047	.595	1.451	1.128
20298C20	021684	125055	.325	174071	.418	116390	.551	187451	.418	107843	.863	4790	1.000	.718	1.496	.621	1.738	2.514
20289C20	021684	91770	.322	156528	.412	80279	.547	137456	.412	102615	.861	98146	1.000	.386	1.950	.584	1.340	1.046
G118862C20	021684	47171	.316	144135	.405	71642	.540	120649	.405	89920	.850	78222	1.000	.327	2.012	.594	1.342	1.150
H1840216B20	021684	57757	.323	104717	.413	43351	.548	76143	.413	56980	.862	52360	1.000	.552	2.416	.569	1.336	1.088
G120609B20	021684	53081	.339	113981	.433	56342	.568	93349	.433	62849	.891	53331	1.000	.464	2.023	.604	1.485	1.178
G119705B20	021684	50737	.322	113978	.411	57132	.545	97178	.411	64181	.858	52003	1.000	.445	1.995	.588	1.514	1.234

R1 = (Resp ISA/Resp ISB)
 R2 = (Resp ISB/Resp ISC)
 R3 = (Resp ISC/Resp ISD)
 R4 = (Resp ISD/Resp ISE)
 R5 = (Resp ISE/Resp ISF)

014172

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Case No. 2333Contractor CompuChemContract No. 08-01-6885Instrument Identifier QMA 020

Calibration Date - 01/20/84

Minimum Avg RRT is 0.80 Maximum Avg RRT is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
N-NITROSODIMETHYLAMINE	0.339	0.534	0.596	0.378	0.503	
BIS (2-CHLOROETHYL) ETHER	0.956	0.729	1.717	0.531	0.992	
2-CHLOROPHENOL	0.965	0.721	1.291	0.646	0.886	
PHENOL	0.938	0.987	1.361	0.743	1.030	
1,3-DICHLOROBENZENE	0.994	0.770	0.909	0.576	0.752	
1,4-DICHLOROBENZENE	1.003	1.229	1.152	0.721	1.034	
1,2-DICHLOROBENZENE	1.038	0.677	1.219	0.638	0.845	
BIS (2-CHLORODISOPROPYL) ETHER	1.058	0.288	0.337	0.202	0.276	
HEXACHLOROETHANE	1.097	0.402	0.513	0.350	0.421	
N-NITROSODI-N-PROPYLAMINE	1.083	0.122	0.168	0.119	0.136	
NITROBENZENE	1.114	0.342	0.444	0.304	0.363	
ISOPHORONE	0.927	0.734	0.683	0.703	0.707	
2-NITROPHENOL	0.942	0.174	0.172	0.189	0.178	
2,4-DIMETHYLPHENOL	0.945	0.341	0.324	0.351	0.339	
BIS (2-CHLOROETHOXY) METHANE	0.962	0.527	0.480	0.485	0.497	
2,4-DICHLOROPHENOL	0.977	0.307	0.286	0.305	0.299	
1,2,4-TRICHLOROBENZENE	0.993	0.354	0.337	0.350	0.347	
NAPHTHALENE	1.003	1.191	1.097	0.983	1.090	
HEXACHLOROBUTADIENE	1.031	0.198	0.191	0.201	0.197	
P-CHLORO-N-CRESOL	1.090	0.410	0.374	0.414	0.399	
1,4-CHLOROCYCLOPENTADIENE	1.152	0.156	0.145	0.164	0.155	
2,4,6-TRICHLOROPHENOL	1.171	1.116	0.945	0.871	1.077	
2-CHLORONAPHTHALENE	0.926	1.200	1.197	1.155	1.184	
ACENAPHTHYLENE	0.980	1.693	1.679	1.571	1.648	
DIMETHYL PHTHALATE	0.969	1.372	1.353	1.397	1.374	
2,6-DINITROTOLUENE	0.979	0.242	0.253	0.286	0.260	
ACENAPHTHENE	1.004	1.194	1.140	1.159	1.164	
2,4-DINITROPHENOL	1.009	0.114	0.123	0.129	0.122	
2,4-DINITROTOLUENE	1.028	0.384	0.407	0.442	0.411	
4-NITROPHENOL	1.017	0.273	0.252	0.273	0.266	
FLUORENE	1.069	1.318	1.247	1.237	1.267	
4-CHLOROPHENYL PHENYL ETHER	1.068	0.563	0.538	0.537	0.546	
DIETHYL PHTHALATE	1.059	1.596	1.558	1.651	1.601	
4,6-DINITRO-O-CRESOL	1.080	0.183	0.194	0.190	0.189	
N-NITROSODIPHENYLAMINE	1.083	0.969	0.843	0.768	0.861	
1,2-DIPHENYLHYDRAZINE	1.131	0.324	0.322	0.341	0.329	
4-BROMOPHENYL PHENYL ETHER	0.950	0.191	0.186	0.186	0.187	
HEXACHLOROBENZENE	0.967	0.251	0.240	0.239	0.243	
PENTACHLOROPHENOL	0.986	0.111	0.115	0.113	0.113	
PHENANTHRENE	1.003	1.047	1.013	0.956	1.005	
ANTHRACENE	1.008	1.033	0.932	0.906	0.964	
DI-N-BUTYL PHTHALATE	1.066	1.563	1.461	1.341	1.455	
FLUORANTHENE	1.134	1.105	1.048	1.005	1.053	
PYRENE	0.887	1.605	1.665	1.416	1.562	
BENZIDINE	0.886	0.006	0.006	0.006	0.006	

Avg RRT - Average Relative Retention Time

- Response Factor (amount of nanograms)

Avg RF - Average Response Factor

SPCC - System Performance Check Compounds (those compounds flagged with an *)

014173

005497

Initial Calibration Data - Semi-volatile non compounds

Case No. 2333Contractor CompuChemContract No. 68-01-6660Instrument Identifier OMA 820

Calibration Date - 01/20/84

Minimum Avg RRT is 0.80 Maximum Avg RRT is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
BUTYL BENZYL PHTHALATE	0.942	0.772	0.818	0.790	0.793	
BENZO (A) ANTHRACENE	0.990	1.594	1.226	1.285	1.348	
CHRYSENE	1.003	1.540	1.232	1.249	1.340	
3,3'-DICHLOROBENZIDINE	0.995	0.242	0.182	0.230	0.218	
BIS (2-ETHYLHEXYL) PHTHALATE	1.002	1.209	1.173	1.228	1.203	
DI-N-OCTYL PHTHALATE	1.087	1.635	1.580	1.907	1.701	
3,4-BENZOFLUORANTHENE	0.950	1.643	1.253	2.017	1.638	
BENZO (K) FLUORANTHENE	0.954	1.487	1.318	1.884	1.497	
BENZO (A) PYRENE	1.004	1.461	1.043	1.272	1.259	
INDENO (1,2,3-CD) PYRENE	1.284	1.149	0.466	1.320	0.978	
BIBENZO (A,H) ANTHRACENE	1.272	0.902	0.440	1.383	0.909	
BENZO (GHI) PERYLENE	1.340	0.801	0.439	1.228	0.823	
ANILINE	0.947	0.802	1.120	0.531	0.818	
BENZOIC ACID	0.963	0.195	0.326	0.208	0.243	
BENZYL ALCOHOL	1.029	0.455	0.706	0.412	0.524	
4-CHLORANILINE	1.024	0.424	0.001	0.001	0.142	
BIBENZOFURAN	1.024	1.714	1.630	1.592	1.645	
2-METHYLNAPHTHALENE	1.116	0.323	0.307	0.322	0.317	
O-CRESOL	1.050	0.677	0.930	0.580	0.729	
P-CRESOL	1.076	0.721	0.924	0.632	0.759	
2-NITROANILINE	0.996	0.363	0.354	0.374	0.364	
TRIOANILINE	0.943	0.452	0.446	0.401	0.433	
4-NITROANILINE	1.076	0.367	0.331	0.380	0.359	
2,4,5-TRICHLOROPHENOL	1.171	0.223	0.189	0.174	0.195	

Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (those compounds flagged with an *)

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Calibration Check Report - Semivolatile HSL Compounds

Case No. 2333 Contractor CompuChem Contract No. CR-D-6886
 Instrument Identifier DNA #20 Calibration Date 01/20/84
 Standard File MSB40214C20 Date 02/14/84 Time 02:42
 Maximum ID for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ID	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.503	0.862	52.600		
BIS (2-CHLOROETHYL) ETHER	0.992	1.430	36.160		
2-CHLOROPHENOL	0.886	1.035	15.510		
PHENOL	1.030	1.434	32.790	*	
1,3-DICHLOROBENZENE	0.752	0.816	8.160		
1,4-DICHLOROBENZENE	1.034	0.897	-14.180	*	
1,2-DICHLOROBENZENE	0.845	0.797	-5.840		
BIS (2-CHLOROISOPROPYL) ETHER	0.276	0.272	-1.450		
HEXACHLORETHANE	0.421	0.338	-21.870		
N-NITROSODI-N-PROPYLAMINE	0.136	0.159	15.590		**
NITROBENZENE	0.363	0.339	-6.830		
ISOPHROHNE	0.707	0.729	3.060		
2-NITROPHENOL	0.178	0.186	4.390	*	
2,4-DIMETHYLPHENOL	0.339	0.279	-19.410		
BIS (2-CHLOROETHOXY) METHANE	0.497	0.657	27.720		
2,4-DICHLOROPHENOL	0.299	0.271	-9.820	*	
1,2,4-TRICHLOROBENZENE	0.347	0.312	-10.620		
NAPHTHALENE	1.090	1.073	-1.570		
HEXACHLORONITROBENE	0.197	0.131	-46.760	*	
P-CHLORO-N-CRESOL	0.399	0.407	1.980	*	
HEXACHLOROCYCLOPENTADIENE	0.155	0.125	-21.420		**
2,4,6-TRICHLOROPHENOL	0.977	0.826	-16.740	*	
2-CHLORONAPHTHALENE	1.184	1.208	2.000		
1-NAPHTHYLENE	1.648	1.908	14.820		
1-METHYL PHTHALATE	1.374	1.252	-9.290		
2,6-DINITROTOLUENE	0.260	0.275	5.600		
ACENAPHTHENE	1.164	1.145	-1.440	*	
2,4-DINITROPHENOL	0.122	0.150	20.580		**
2,4-DINITROTOLUENE	0.411	0.332	-15.460		
4-NITROPHENOL	0.266	0.176	-40.720		**
FLUORENE	1.267	1.307	3.100		
4-CHLOROPHENYL PHENYL ETHER	0.546	0.485	-11.830		
DIETHYL PHTHALATE	1.602	1.503	-6.370		
4,6-DINITRO-D-CRESOL	0.189	0.204	7.630		
N-NITROSODIPHENYLAMINE	0.861	0.862	0.110	*	
1,2-DIPHENYLHYDRAZINE	0.329	2.271	149.380		
4-BROMOPHENYL PHENYL ETHER	0.187	0.171	-8.930		
HEXACHLOROBENZENE	0.243	0.198	-20.400		
PENTACHLOROPHENOL	0.113	0.121	6.830	*	
PHENANTHRENE	1.005	1.160	14.310		
ANTHRACENE	0.964	1.044	7.960		
DI-N-BUTYL PHTHALATE	1.435	1.634	11.580		
FLUORANTHENE	1.032	0.630	-186.300	*	
PYRENE	1.562	0.628	-185.440	*	
BENZIDINE	0.006	0.602	-100.000	*	**

Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 ID - Percent Difference
 CCC - Calibration Check Compounds (those compounds flagged with an *
 SPCC - System Performance Check Compounds (those compounds flagged with **)

014175

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Calibration Check Report - Semivolatile HSL Compounds

Page 4

Case No. 2333 Contractor CompuChem Contract No. 68-01-6966
 Instrument Identifier DNA 820 Calibration Date 01/20/84
 Standard File HS840214C20 Date 02/14/84 Time 02:42
 Maximum Δ for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	%D	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.793	1.151	34.830		
BENZO (A) ANTHRACENE	1.368	1.519	10.460		
CHRYSENE	1.340	1.268	-5.520		
3,3'-DICHLOROCERIZIDINE	0.218	0.356	48.080		
BIS (2-ETHYLHEXYL) PHTHALATE	1.203	1.752	37.150		
B1-M-OCTYL PHTHALATE	1.701	2.772	47.880		
3,4-BENZOFLUORANTHENE	1.637	1.380	-17.030		
BENZO (K) FLUORANTHENE	1.496	1.124	-28.390		
BENZO (A) PYRENE	1.259	1.129	-10.880		
INDENO (1,2,3-CD) PYRENE	0.978	0.760	-25.080		
DIBENZO (A,H) ANTHRACENE	0.908	0.764	-17.220		
BENZO (GH) PERYLENE	0.822	0.723	-12.810		
ANILINE	0.818	1.931	80.970		
BENZOIC ACID	0.243	0.093	-87.570		
BENZYL ALCOHOL	0.324	0.813	43.230		
4-CHLORANILINE	0.142	0.467	106.730		
BIBENZOFURAN	1.645	1.632	-0.790		
2-METHYLMPTHALENE	0.317	0.240	-27.640		
O-CRESOL	0.729	1.154	45.140		
P-CRESOL	0.759	1.401	59.440		
2-NITROANILINE	0.364	0.460	23.300		
3-NITROANILINE	0.433	0.577	28.910		
4-NITROANILINE	0.359	0.377	4.890		
1,5-TRICHLOROPHENOL	0.193	0.163	-16.660		

- Avg RF - Average Response Factor from initial calibration
- RF - Response Factor from daily standard file
- %D - Percent Difference
- CCC - Calibration Check Compounds (those compounds flagged with an *)
- SPCC - System Performance Check Compounds (those compounds flagged with **)

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Semi-Volatile

Case 2333

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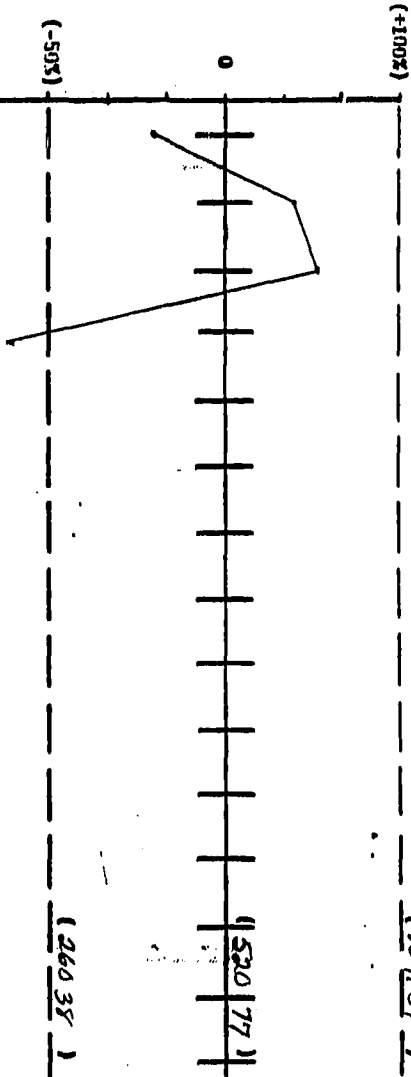
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METHOD Semi-volatile #15
 I. STD FSH

PAGE 1

(10454)

DEVIATION FROM MEAN



(26035)

DATE	RUN NO.
1/9/84	1
1/9/84	2
1/9/84	3
2/13/84	4
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	14
	15

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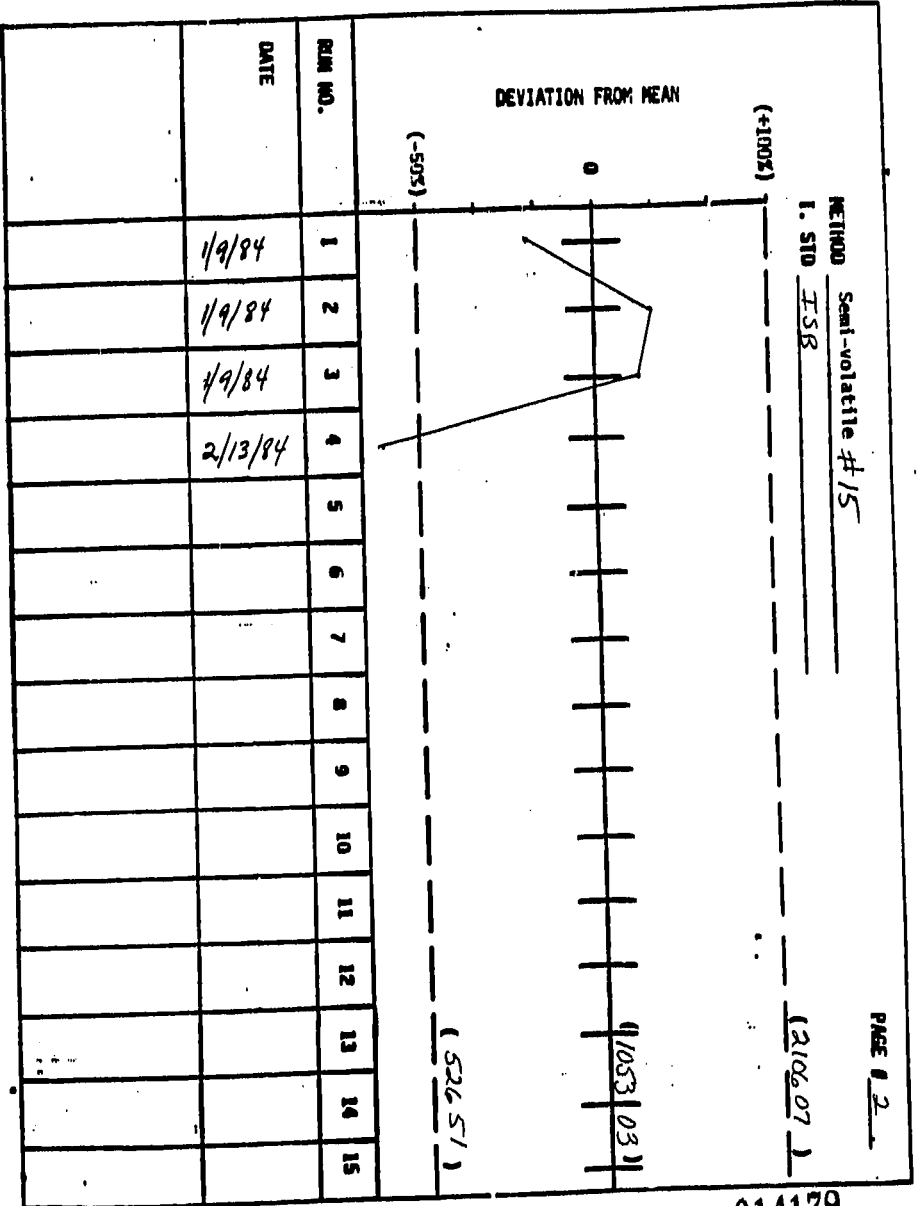
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METHOD Semi-volatile #15
I. STD FSR

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METHOD Sent-volactile #15
 I. STD ISC

PAGE # 3

(+100%)

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DEVIATION FROM MEAN

(-50%)

(26/34)

0

(532/69)

DATE	RUN NO.	DEVIATION FROM MEAN
1/9/84	1	
1/9/84	2	
1/9/84	3	
2/13/84	4	
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	14	
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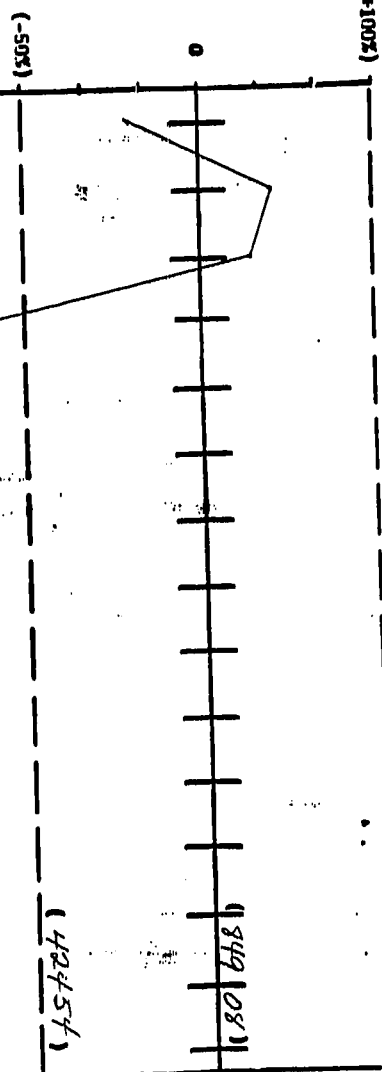
METHOD Semi-volatile #15
 I. STD ISD

PAGE 4

(169816)

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DEVIATION FROM MEAN



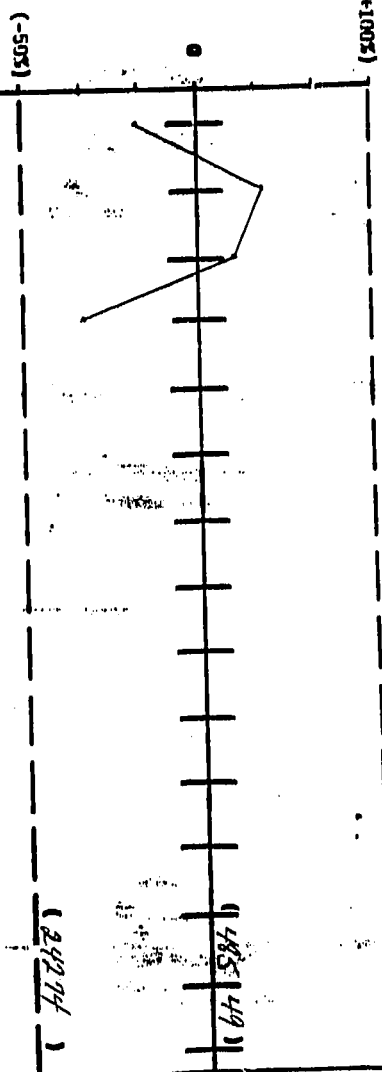
DATE	RUN NO.
1/9/84	1
1/9/84	2
1/9/84	3
2/13/84	4
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METHOD Sent-volatile #15
 I. STD ISE

PAGE 1 OF 5

(97098)

DEVIATION FROM MEAN



RUN NO.	DATE
1	1/9/84
2	1/9/84
3	1/9/84
4	2/13/84
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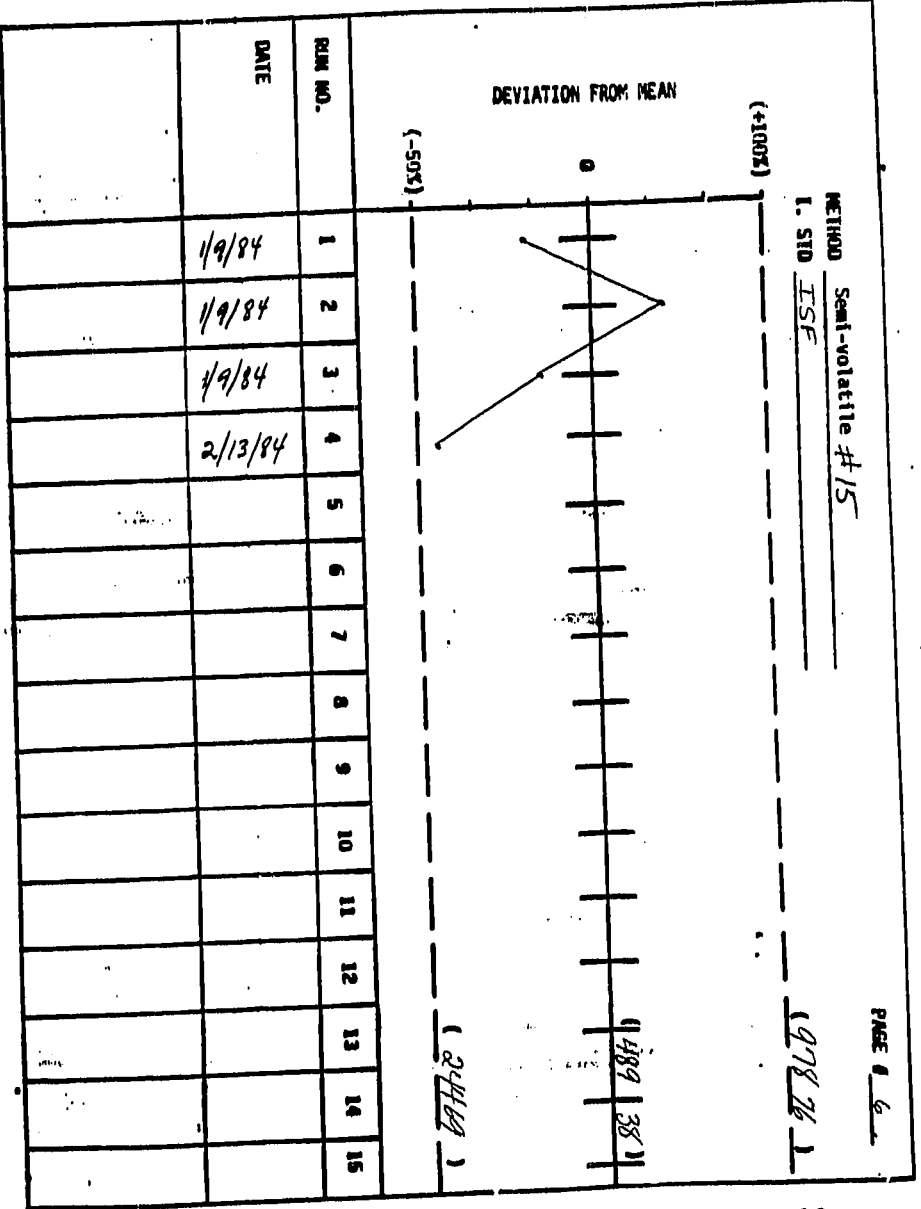
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METHOD Semi-volatile #15
I. STD ISF

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005507



Internal Standard Response Verification Data Sheet

PAGE 1

Case No. 2333 Contractor CompuChem Contract No. LA 8-01-6866
 Instrument I.D. OWA_015 R.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	Resp RRT	Resp Area	Resp RRT	Resp Area	Resp RRT	Resp Area	Resp RRT	Resp Area	Resp RRT	Resp Area	Resp RRT					
H1840109A15	010984	46621	.339	99352	.422	47303	.542	76466	.422	44018	.832	41227	1.000	.469	2.100	.619	1.737	1.068
H6840109A15	010984	54274	.339	109833	.422	56275	.542	91749	.422	53073	.831	57294	1.000	.494	1.952	.613	1.729	.926
H8840109A15	010984	55337	.339	106726	.422	53231	.542	86509	.422	48557	.832	48294	1.000	.518	2.005	.615	1.782	1.095
63019562C15	021384	21658	.330	49288	.422	23974	.557	38564	.422	31749	.879	25262	1.000	.443	2.056	.622	1.215	1.257

R1 = (Resp ISA/Resp ISB)
 R2 = (Resp ISB/Resp ISC)
 R3 = (Resp ISC/Resp ISD)
 R4 = (Resp ISD/Resp ISE)
 R5 = (Resp ISE/Resp ISF)

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Initial Calibration Data - Semivolatile HSL Compounds

Page 1

Case No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier OWA #15

Calibration Date - 01/09/84

Minimum Avg RRT is 0.80 Maximum Avg RRT is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
N-NITROSODIMETHYLAMINE	0.543	0.741	0.723	0.739	0.734	
BIS (2-CHLOROETHYL) ETHER	0.959	1.309	1.204	1.131	1.214	
2-CHLOROPHENOL	0.967	0.869	0.840	0.785	0.832	
PHENOL	0.943	1.395	1.334	1.243	1.324	
1,3-DICHLOROBENZENE	0.993	0.921	0.872	0.823	0.872	
1,4-DICHLOROBENZENE	1.003	1.038	0.932	0.872	0.947	
1,2-DICHLOROBENZENE	1.038	0.907	0.844	0.769	0.840	
BIS (2-CHLOROISOPROPYL) ETHER	1.059	0.352	0.328	0.316	0.332	
HEXACHLOROETHANE	1.095	0.423	0.401	0.380	0.401	
M-NITROSODI-M-PROPYLAMINE	1.085	0.176	0.167	0.161	0.168	*
NITROBENZENE	1.113	0.474	0.470	0.446	0.463	
ISOPHORONE	0.930	0.935	0.955	0.971	0.954	
2-NITROPHENOL	0.943	0.173	0.186	0.189	0.182	
2,4-DIMETHYLPHENOL	0.948	0.340	0.354	0.359	0.351	
BIS (2-CHLOROETHOXY) METHANE	0.964	0.618	0.601	0.602	0.607	
2,4-DICHLOROPHENOL	0.979	0.252	0.263	0.260	0.258	
1,2,4-TRICHLOROBENZENE	0.993	0.265	0.271	0.264	0.267	
1,3-DICHLOROBENZENE	1.003	1.235	1.183	1.149	1.189	
1,2-DICHLOROBUTADIENE	1.031	0.148	0.148	0.141	0.146	
P-CHLORO-M-CRESOL	1.089	0.423	0.462	0.470	0.452	
HEXACHLOROCYCLOPENTADIENE	1.149	0.070	0.101	0.108	0.092	*
2,4,6-TRICHLOROPHENOL	1.166	0.153	0.766	0.702	0.540	
2-CHLORONAPHTHALENE	0.927	1.188	1.116	1.075	1.126	
ACENAPHTHYLENE	0.980	1.393	0.793	0.861	1.016	
DIMETHYL PHTHALATE	0.970	1.439	1.419	1.143	1.334	
2,6-DINITROTOLUENE	0.980	0.413	0.433	0.438	0.428	
ACENAPHTHENE	1.004	1.218	1.155	1.142	1.122	
2,4-DINITROPHENOL	1.009	0.022	0.043	0.061	0.042	*
2,4-DINITROTOLUENE	1.028	0.370	0.418	0.440	0.409	
4-NITROPHENOL	1.016	0.119	0.168	0.177	0.155	*
FLUORENE	1.067	1.319	1.276	1.254	1.283	
4-CHLOROPHENYL PHENYL ETHER	1.067	0.459	0.452	0.435	0.448	
DIETHYL PHTHALATE	1.059	1.723	1.708	1.681	1.704	
4,6-DINITRO-Q-CRESOL	1.080	0.055	0.082	0.104	0.080	
M-NITROSODIPHENYLAMINE	1.082	0.552	0.319	0.301	0.391	
1,2-DIPHENYLHYDRAZINE	1.087	2.712	2.511	2.610	2.611	
4-BROMOPHENYL PHENYL ETHER	0.951	0.179	0.180	0.175	0.178	
HEXACHLOROBENZENE	0.967	0.199	0.202	0.193	0.198	
PENTACHLOROPHENOL	0.986	0.070	0.099	0.102	0.091	
PHENANTHRENE	1.003	1.030	1.014	0.999	1.015	
ANTHRACENE	1.007	1.039	0.970	0.832	0.947	
DI-N-BUTYL PHTHALATE	1.065	1.694	1.723	1.679	1.699	
FLUORANTHENE	1.130	1.053	1.084	1.039	1.058	
PYRENE	0.892	1.933	1.819	1.794	1.849	
TOLUENE	0.000	0.000	0.000	0.000	0.000	*

Avg RRT - Average Relative Retention Time

RF - Response Factor (amount of nanograms)

Avg RF - Average Response Factor

SPCC - System Performance Check Compounds (those compounds flagged with an *)

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003509

Initial Calibration Data - Semivolatile HSL Compounds

Page 2

Case No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier OWA 415

Calibration Date - 01/09/84

Minimum Avg ART is 0.80 Maximum Avg ART is 1.20

Minimum Avg RF for SPCC is 0.050

Compound	Avg ART	RF(20)	RF(100)	RF(200)	Avg RF	SPCC
BUTYL BENZYL PHTHALATE	0.946	1.056	1.115	1.149	1.107	
BENZO (A) ANTHRACENE	0.998	1.408	1.333	1.497	1.420	
CHRYSENE	1.003	1.361	1.093	1.144	1.199	
3,3'-DICHLOROBENZIDINE	0.865	0.000	0.017	0.031	0.016	
BIS (2-ETHYLHEXYL) PHTHALATE	1.004	1.496	1.442	1.541	1.493	
DI-N-OCTYL PHTHALATE	1.086	2.379	2.544	2.822	2.582	
3,4-BENZOFLUORANTHENE	0.954	1.058	0.910	1.374	1.114	
BENZO (K) FLUORANTHENE	0.958	1.025	0.842	1.059	0.975	
BENZO (A) PYRENE	1.004	1.088	0.898	1.008	0.998	
INDENO (1,2,3-CD) PYRENE	1.244	0.596	0.414	0.704	0.571	
DIBENZO (A,H) ANTHRACENE	1.252	0.720	0.525	0.870	0.705	
BENZO (GHI) PERYLENE	1.316	0.976	0.640	1.027	0.881	
ANILINE	0.952	1.309	1.083	1.197	1.196	
BENZOIC ACID	0.974	0.241	0.204	0.154	0.200	
BENZYL ALCOHOL	1.030	0.520	0.569	0.561	0.550	
4-CHLORANILINE	1.016	0.041	0.136	0.244	0.140	
DIBENZOFURAN	1.024	1.700	1.646	1.626	1.657	
2-METHYLNAPHTHALENE	1.113	0.311	0.306	0.303	0.307	
m-CRESOL	1.052	0.872	0.795	0.744	0.804	
p-CRESOL	1.079	0.913	0.881	0.851	0.891	
2-NITROANILINE	0.995	0.014	0.031	0.079	0.041	
3-NITROANILINE	0.945	0.346	0.461	0.480	0.429	
4-NITROANILINE	1.074	0.116	0.034	0.059	0.070	
2,4,5-TRICHLOROPHENOL	1.168	0.158	0.153	0.140	0.150	

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Avg ART - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor
 SPCC - System Performance Check Compounds (those compounds flagged with an #)

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Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. 2333 Contractor CoopuChem Contract No. 69-01-6866
 Instrument Identifier DNA #15 Calibration Date 01/09/84
 Standard File H8840213C15 Date 02/13/84 Time 01:22
 Maximum TD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	TD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.734	0.586	-22.420		
BIS (2-CHLOROETHYL) ETHER	1.215	1.149	-5.580		
2-CHLOROPHENOL	0.831	0.832	0.120		
PHENOL	1.324	1.336	0.900		
1,3-DICHLOROBENZENE	0.872	0.886	1.590		
1,4-DICHLOROBENZENE	0.947	0.959	1.250		
1,2-DICHLOROBENZENE	0.840	0.847	0.820		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.335	0.890		
HEXACHLOROETHANE	0.401	0.464	14.560		
N-NITROSODI-N-PROPYLAMINE	0.168	0.168	0.000	**	
NITROBENZENE	0.463	0.478	3.180		
ISOPHORONE	0.954	0.960	0.620		
2-NITROPHENOL	0.183	0.174	-5.040	*	
2,4-DIMETHYLPHENOL	0.351	0.342	-2.590		
BIS (2-CHLOROETHOXY) METHANE	0.607	0.568	-6.630		
2,4-DICHLOROPHENOL	0.258	0.284	9.590	*	
1,2,4-TRICHLOROBENZENE	0.267	0.336	22.880		
NAPHTHALENE	1.189	1.173	-1.350		
HEXACHLOROBUTADIENE	0.146	0.173	16.920	*	
P-CHLORO-N-CRESOL	0.452	0.473	4.540	*	
1,5-HEXACHLOROCYCLOPENTADIENE	0.092	0.074	-21.680		**
1,5-TRICHLOROPHENOL	0.590	0.189	-96.290	*	
2-CHLORONAPHTHALENE	1.126	1.138	1.060		
ACENAPHTHYLENE	1.015	1.082	6.390		
DIMETHYL PHTHALATE	1.334	1.435	7.290		
2,6-DINITROTOLUENE	0.428	0.322	-28.260		
ACENAPHTHENE	1.172	1.161	-0.940	*	
2,4-DINITROPHENOL	0.042	0.055	28.500	**	
2,4-DINITROTOLUENE	0.409	0.478	15.950		
4-NITROPHENOL	0.155	0.213	31.520	**	
FLUORENE	1.283	1.233	-5.970		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.514	13.490		
DIETHYL PHTHALATE	1.704	1.614	-5.420		
4,6-DINITRO-D-CRESOL	0.080	0.122	41.580		
N-NITROSODIPHENYLAMINE	0.391	0.479	20.220		
1,2-DIPHENYLHYDRAZINE	2.611	2.803	7.090		
4-BROMOPHENYL PHENYL ETHER	0.178	0.207	15.060		
HEXACHLOROBENZENE	0.198	0.258	26.310		
PENTACHLOROPHENOL	0.090	0.094	4.340	*	
PHENANTHRENE	1.014	1.020	0.580		
ANTHRACENE	0.947	0.959	1.250		
DI-N-BUTYL PHTHALATE	1.699	1.811	6.380		
FLUORANTHENE	1.058	1.115	5.240	*	
PYRENE	1.849	1.634	-12.340		
BENZIDINE	0.000	0.000	0.000	**	

Avg RF - Average Response Factor from initial calibration
 - Response Factor from daily standard file
 * - Percent Difference
 CCC - Calibration Check Compounds (those compounds flagged with an *
 SPCC - System Performance Check Compounds (those compounds flagged with **

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Calibration Check Report - Semi-volatile HSL Compounds

Page 2

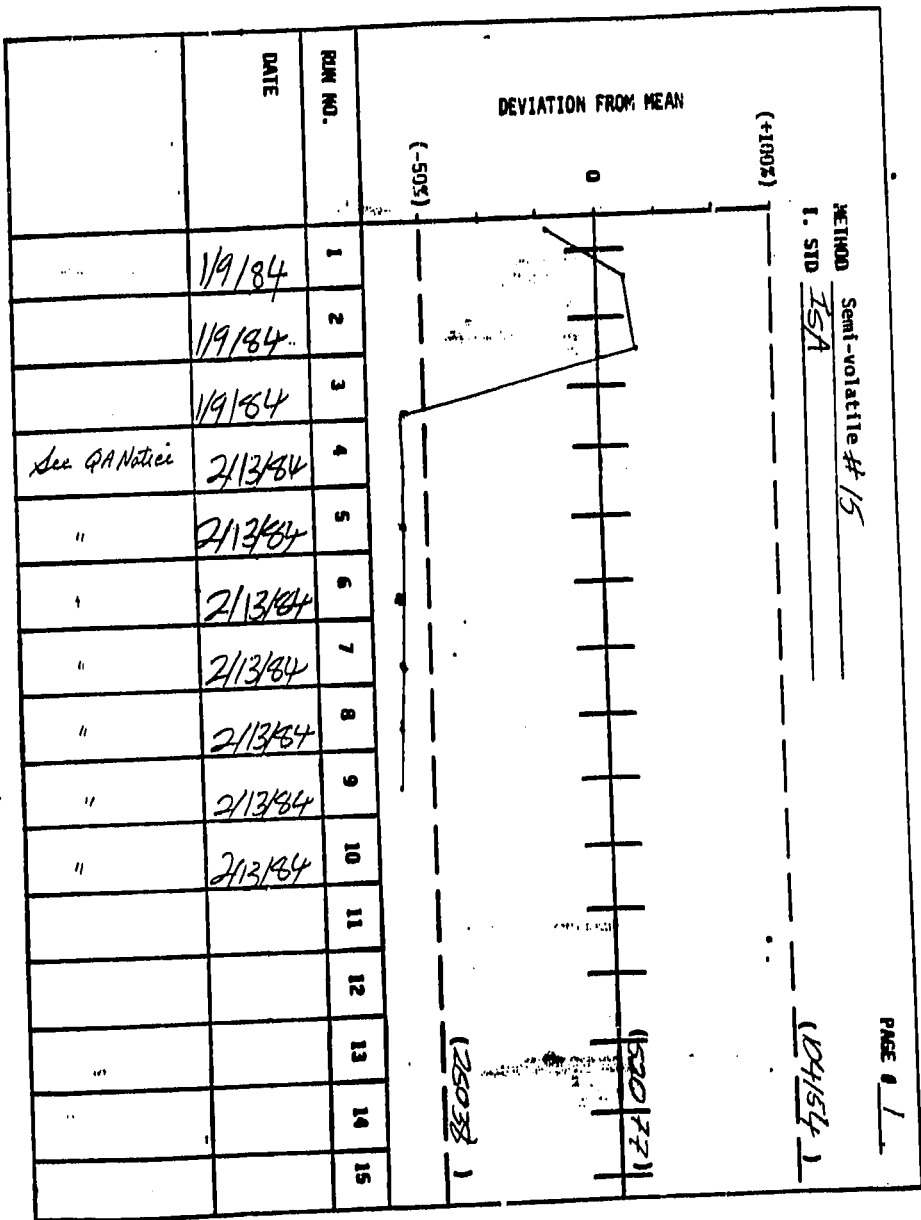
Case No. 2333 Contractor CompuChem Contract No. 69-01-6966
 Instrument Identifier OWA #15 Calibration Date 01/09/84
 Standard File HGB40213C15 Date 02/13/84 Time 01:22
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	1.107	1.037	-6.520		
BENZO (A) ANTHRACENE	1.420	1.342	-5.640		
CHRYSENE	1.199	1.264	5.270		
3,3'-DICHLORO BENZIDINE	0.016	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.493	1.583	5.850		
DI-N-OCTYL PHTHALATE	2.582	2.675	3.530	*	
3,4-BENZOFLUDRANTHENE	1.114	2.432	74.330		
BENZO (K) FLUORANTHENE	0.975	2.432	85.520		
BENZO (A) PYRENE	0.998	1.059	5.930	*	
INDENO (1,2,3-CD) PYRENE	0.571	0.587	2.760		
DIBENZO (A,H) ANTHRACENE	0.705	0.462	-41.640		
BENZO (GHI) PERYLENE	0.881	0.418	-71.280		
ANILINE	1.196	1.144	-4.440		
BENZOIC ACID	0.200	0.095	-71.180		
BENZYL ALCOHOL	0.550	0.560	1.800		
4-CHLOROANILINE	0.140	0.231	49.050		
DIBENZOFURAN	1.657	1.670	0.780		
2-METHYLNAPHTHALENE	0.307	0.328	6.610		
O-CRESOL	0.804	0.764	-5.100		
P-CRESOL	0.881	0.894	1.460		
ITROANILINE	0.041	0.079	63.330		
3-NITROANILINE	0.429	0.490	13.270		
4-NITROANILINE	0.070	0.025	-94.730		
2,4,5-TRICHLOROPHENOL	0.150	0.180	18.180		

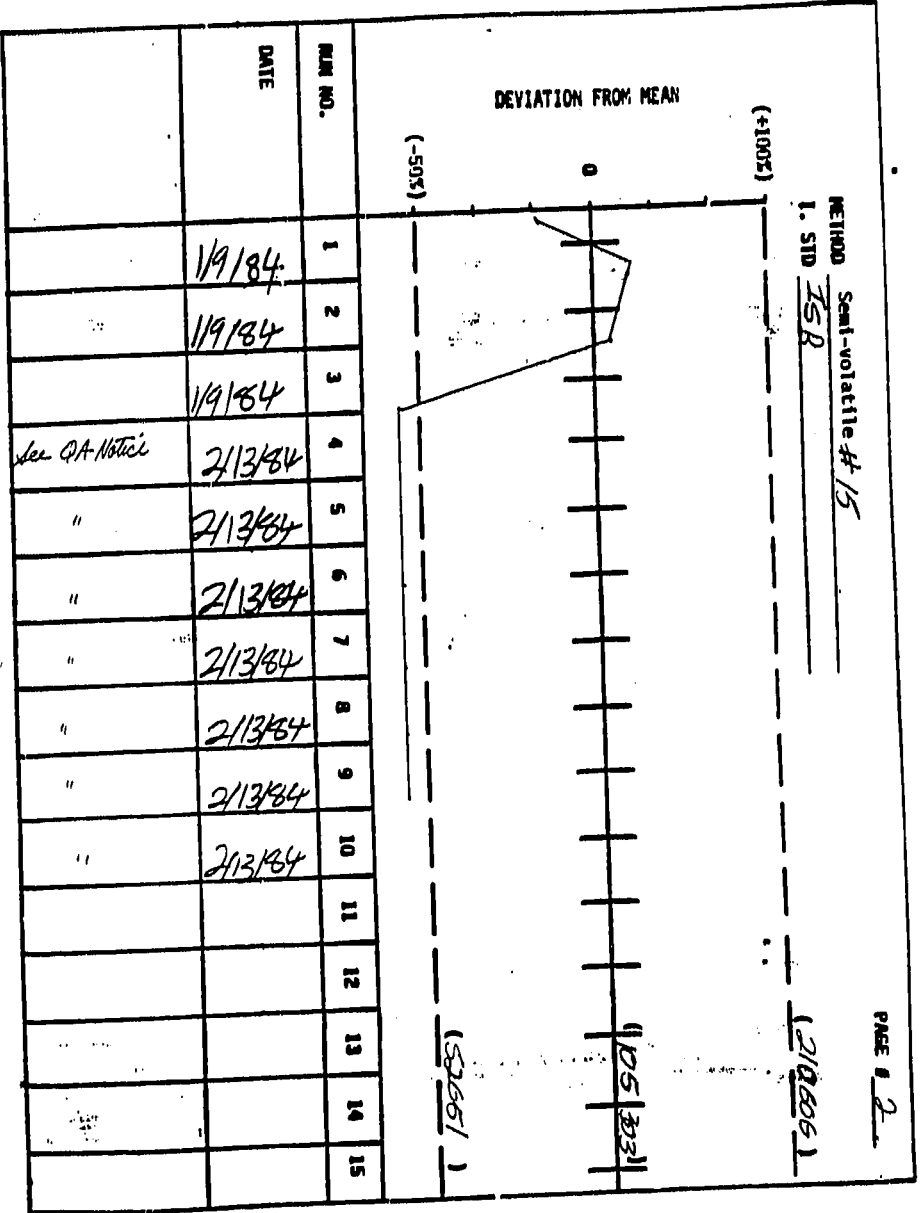
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- * RF - Average Response Factor from initial calibration
- RF - Response Factor from daily standard file
- ZD - Percent Difference
- CCC - Calibration Check Compounds (those compounds flagged with an *)
- SPCC - System Performance Check Compounds (those compounds flagged with **)

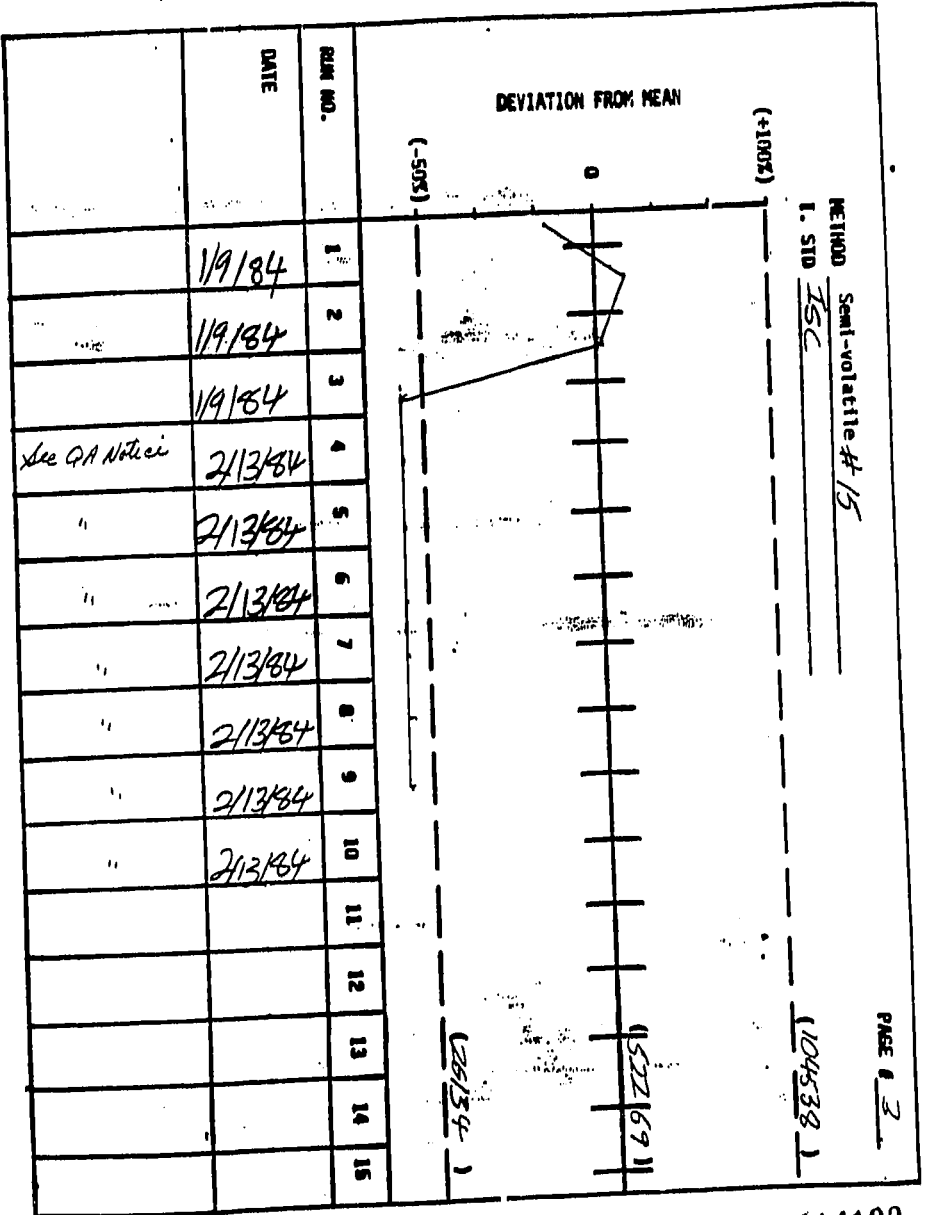
20 005512



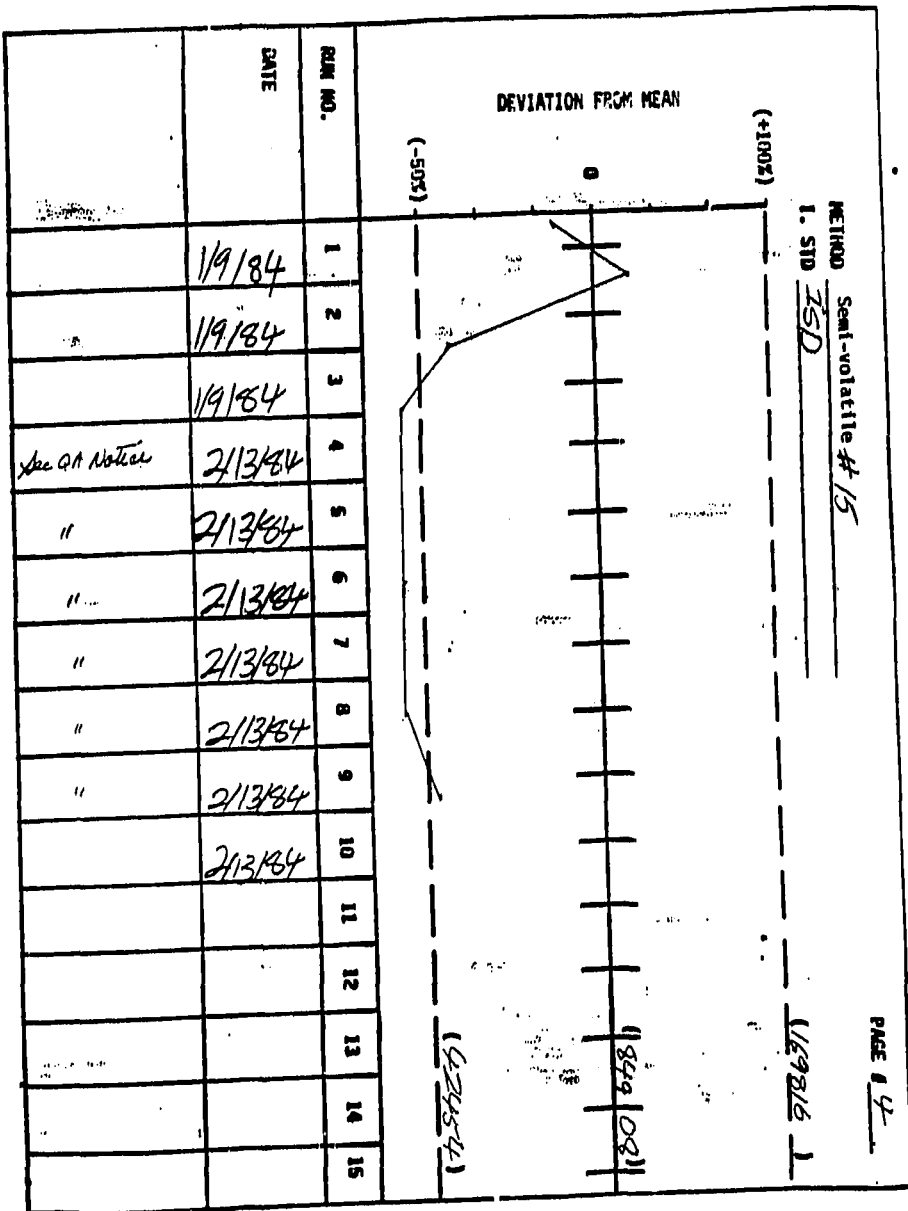
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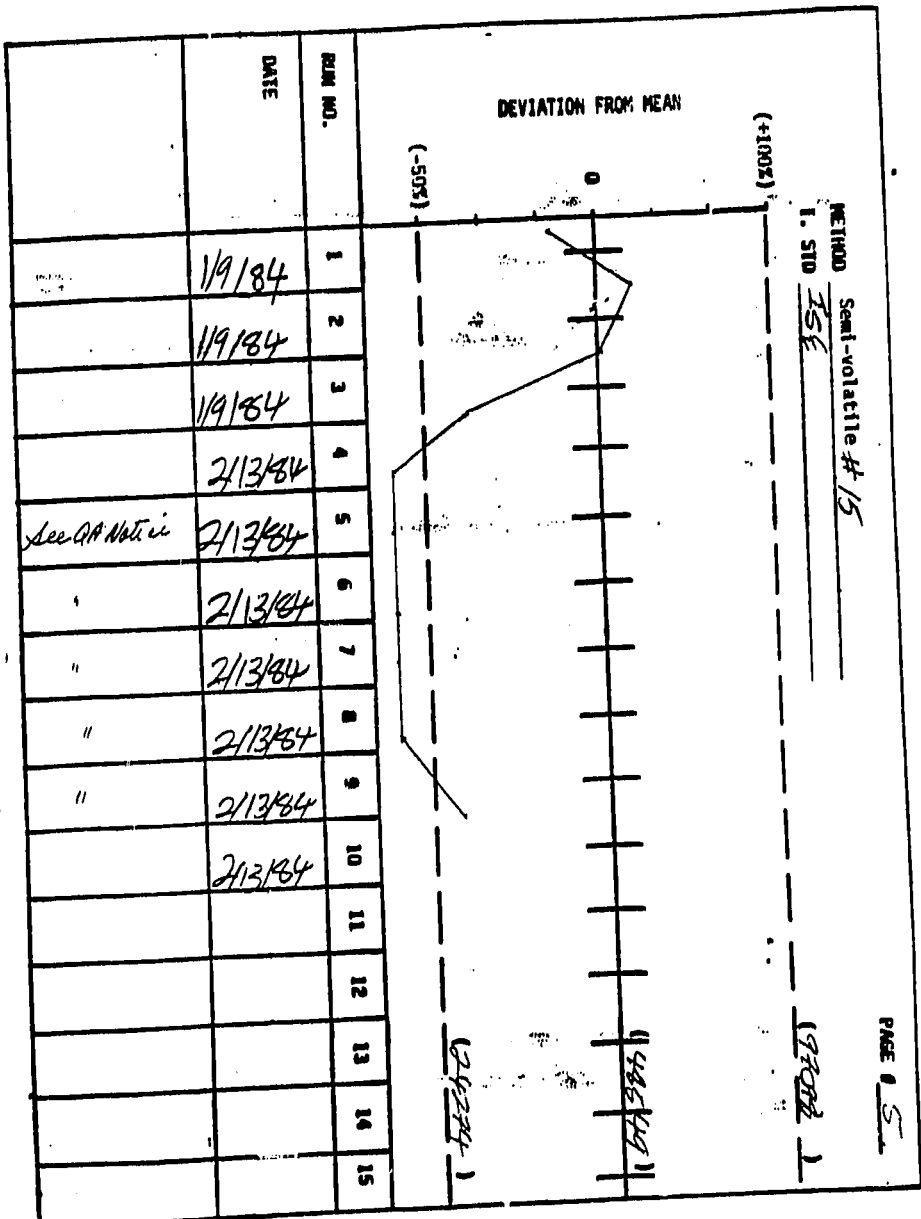


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DATE	RUN NO.
1/9/84	1
1/9/84	2
1/9/84	3
2/13/84	4
See QA Note ii	5
2/13/84	6
"	7
"	8
"	9
2/13/84	10
	11
	12
	13
	14
	15

METHOD Semi-volatile #15
 I. STD 75E

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