

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).

002203 025213

A

025214

002204

date 2-23-84

[illegible]

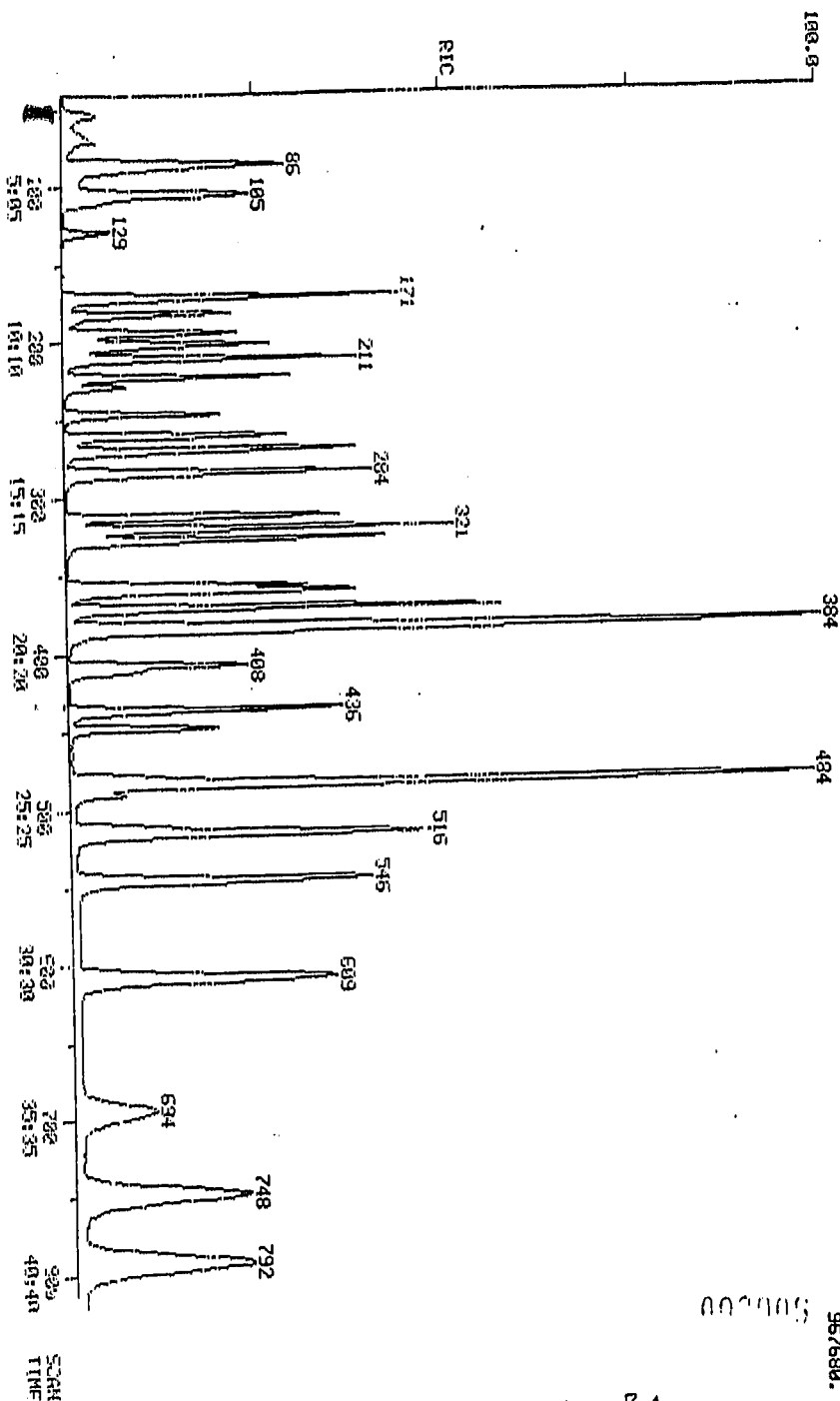
MEAD COMPUTED

DATA: G5840131018

SCANS 40 TO 820

RIC
01/31/84 13:07:00
SAMPLE: 20 ML DIH2O + 5UL@10936+10941) + STD. #1817

025216
967680.



PROCEDURE: RK

DIAGNOSTIC REPORT

1/31/84 19:07:30

DATA FILE: C8840131B18

REFERENCE: V238

METHOD: V238 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

REPORT: V238S1

< ---- STANDARDS ---- >C --- PLUS UNKNOWNNS --- >C - LIST NAMES - >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 3 3 1 0 44 39 1 51. 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	F5	1	-230	230	230	1	966	130	229	-1	1	1
2	F6	1	-411	411	411	1	776	79	412	1	1	1
3	F7	1	-491	491	491	1	992	55	491	1	1	1
4	F5	2	-54	53	53	1	994	50	53	1	1	1
5	F5	3	-87	86	86	1	950	94	86	1	1	1
6	F5	4	-106	105	105	1	982	62	105	1	1	1
7	F5	5	-130	129	129	1	987	64	129	1	1	1
8	F5	6	-172	172	171	-1	1	973	84	171	1	1
9	F5	7	-182	182	182	1	956	58	182	1	1	1
10	F5	8	-182	182	182	1	956	56	182	1	1	1
11	F5	9	-195	195	194	-1	1	998	53	194	1	1
12	F5	10	-211	211	211	1	984	101	211	1	1	1
13	F5	11	-202	202	202	1	992	76	202	1	1	1
14	F5	12	-223	223	223	1	970	96	223	1	1	1
15	F5	13	-247	247	247	1	993	65	247	1	1	1
16	F5	14	-261	261	261	1	983	94	261	1	1	1
17	F5	15	-270	270	270	1	983	83	270	1	1	1
18	F5	16	-285	285	285	1	969	62	285	1	1	1
19	F5	17	-284	284	284	1	982	72	284	1	1	1
20	F5	18	-313	313	313	1	982	97	313	1	1	1
21	F5	19	-320	320	320	1	987	117	320	1	1	1
22	F6	2	-321	321	321	1	957	43	321	1	1	1
23	F6	3	-327	327	327	1	986	127	327	1	1	1
24	F6	4	-356	356	357	1	1	988	65	357	1	1
25	F6	5	-360	360	361	1	1	983	75	361	1	1
26	F6	6	-371	371	372	1	1	977	130	372	1	1
27	F6	7	-384	384	384	1	1	993	78	384	1	1
28	F6	8	-385	385	385	1	1	991	97	385	1	1
29	F6	9	-386	386	386	1	1	975	75	386	1	1
30	F6	10	-382	382	382	1	1	127	383	1	1	1
31	F6	11	-407	407	408	1	1	989	63	408	1	1
32	F6	12	-436	436	436	1	1	964	173	436	1	1
33	F6	13	-448	448	448	1	1	993	58	448	1	1
34	F7	2	-479	479	479	1	1	980	58	479	1	1
35	F7	3	-483	483	483	1	1	983	83	483	1	1
36	F7	4	-484	484	485	1	1	957	164	485	1	1
37	F7	5	-516	517	516	-1	1	979	92	516	1	1
38	F7	6	-546	547	546	-1	1	970	112	546	1	1
39	F7	7	-608	609	609	1	1	985	106	609	1	1
40	F7	8	-748	749	748	-1	1	982	104	748	1	1
41	F7	9	-791	792	793	1	1	991	106	792	-1	1
42	F8	2	-283	283	283	1	1	985	65	283	1	1
43	F8	3	-512	512	512	-1	1	979	100	512	1	1
44	F8	4	-691	692	693	1	1	988	176	693	1	1

025217

000007

QUANTITATION REPORT FILE: GSB40131818

DATA: GSB40131818.TI

01/01/84 18:07:00

SAMPLE: 20 ML DTH20 + SULG(10936+10941) + STD. #1817

SUBMITTED BY: JB

ANALYST: SBA

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	205 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

%TOT
000000
025218

1/31/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGMT)	AMOUNT	%TOT
1	130	229	11:38	1	1.000	A BV	64740.	10.000 UG/KG	0.39
2	50	53	2:42	1	0.231	A BV	155522.	48.287 UG/KG	1.90
3	94	86	4:22	1	0.376	A BB	574408.	48.464 UG/KG	1.90
4	62	105	5:20	1	0.459	A BB	600550.	49.474 UG/KG	1.94
5	64	129	6:33	1	0.563	A BB	105953.	43.128 UG/KG	1.69
6	84	171	8:42	1	0.747	A BB	427409.	86.321 UG/KG	3.39
7	58	182	9:15	1	0.795	A BB	85582.	173.782 UG/KG	6.82
8	56	182	9:15	1	0.795	A BV	160528.	271.033 UG/KG	10.64
9	53	194	9:52	1	0.847	A BB	324104.	238.794 UG/KG	9.38
10	101	211	10:44	1	0.921	A BV	504468.	50.904 UG/KG	2.00
11	75	202	10:16	1	0.882	A BB	883116.	42.454 UG/KG	1.67
12	96	223	11:20	1	0.974	A BV	217368.	45.337 UG/KG	1.78
13	65	247	12:33	1	1.079	A BV	95182.	43.631 UG/KG	1.71
14	96	261	13:16	1	1.140	A BV	239202.	45.952 UG/KG	1.80
15	83	270	13:43	1	1.179	A BV	455172.	45.455 UG/KG	1.78
16	62	285	14:29	1	1.245	A BB	259889.	39.763 UG/KG	1.56
17	72	284	14:26	1	1.240	A BV	138748.	184.110 UG/KG	7.23
18	97	313	15:55	1	1.367	A BB	370804.	48.269 UG/KG	1.90
19	117	320	16:16	1	1.397	A VB	428927.	49.966 UG/KG	1.96
20	79	412	20:57	20	1.000	A BV	38578.	10.000 UG/KG	0.39
21	43	321	16:19	1	1.402	A VB	257180.	31.211 UG/KG	1.23
22	127	327	16:37	1	1.420	A BB	52959.	47.481 UG/KG	1.86
23	65	357	18:09	1	1.559	A BB	63183.	43.273 UG/KG	1.70
24	75	361	18:21	1	1.576	A BB	388794.	42.765 UG/KG	1.68
25	130	372	18:55	1	1.624	A BV	372142.	49.635 UG/KG	1.95
26	78	384	19:31	1	1.677	A BV	648075.	45.945 UG/KG	1.80
27	97	385	19:34	1	1.681	A VB	245379.	40.450 UG/KG	1.59
28	75	386	19:37	1	1.686	A BV	195461.	41.669 UG/KG	1.64
29	127	383	19:28	1	1.672	A BB	384303.	43.260 UG/KG	1.70
30	63	408	20:44	1	1.782	A BB	189679.	80.939 UG/KG	3.18
31	173	436	22:10	1	1.904	A BV	373097.	38.910 UG/KG	1.53
32	58	448	22:46	1	1.956	A BB	92884.	43.994 UG/KG	1.73
33	55	491	24:58	33	1.000	A VV	47125.	10.000 UG/KG	0.39
34	58	479	24:21	1	2.092	A BB	76303.	43.682 UG/KG	1.72
35	83	483	24:33	1	2.109	A BV	364503.	33.533 UG/KG	1.32
36	164	485	24:39	1	2.118	A BV	386141.	52.346 UG/KG	2.06
37	92	516	26:14	1	2.253	A BV	471856.	48.458 UG/KG	1.90
38	112	546	27:45	1	2.384	A BB	686763.	49.643 UG/KG	1.95
39	106	609	30:57	1	2.659	A BB	341601.	51.138 UG/KG	2.01
40	104	748	38:01	1	3.266	A BB	749041.	49.008 UG/KG	1.92
41	106	792	40:16	1	3.459	A BB	474564.	50.050 UG/KG	1.97
42	65	283	14:23	1	1.236	A BB	71087.	9.755 UG/KG	0.38
43	100	512	26:02	1	2.236	A BB	128017.	11.619 UG/KG	0.46
44	176	693	35:14	1	3.026	A BB	154572.	12.855 UG/KG	0.50

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	0.96	0.235	0.99	48.29	40.00	0.601	0.497	1.21
3	4:25	0.99	0.378	0.99	48.45	40.00	2.218	1.831	1.21
4	5:23	0.99	0.461	0.99	49.47	40.00	2.319	1.875	1.24
5	6:36	0.99	0.565	1.00	43.13	40.00	0.409	0.379	1.08
6	8:45	0.99	0.748	1.00	86.32	40.00	1.651	0.765	2.16
7	9:15	1.00	0.791	1.00	173.78	299.99	0.044	0.076	0.58
8	9:15	1.00	0.791	1.00	271.03	399.99	0.062	0.091	0.68
9	9:55	0.99	0.848	1.00	238.79	399.99	0.125	0.210	0.60
10	10:44	1.00	0.917	1.00	50.90	40.00	1.948	1.825	2.19

NO 200

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	42.45	40.00	3.410	3.213	1.06
12	11:20	1.00	0.970	1.00	45.34	40.00	0.839	0.741	1.13
13	12:33	1.00	1.074	1.00	43.63	40.00	0.368	0.337	1.09
14	13:16	1.00	1.135	1.00	45.95	40.00	0.924	0.804	1.15
15	13:43	1.00	1.174	1.00	45.45	40.00	1.758	1.547	1.14
16	14:29	1.00	1.239	1.00	39.76	40.00	1.004	1.010	0.99
17	14:26	1.00	1.235	1.00	184.11	299.99	0.071	0.116	0.61
18	15:55	1.00	1.361	1.00	48.27	40.00	1.432	1.187	1.21
19	16:16	1.00	1.391	1.00	49.97	40.00	1.656	1.326	1.25
20	20:54	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:17	1.00	1.396	1.00	31.21	40.00	0.993	1.273	0.78
22	16:37	1.00	1.422	1.00	47.48	40.00	0.205	0.172	1.19
23	18:06	1.00	1.548	1.01	43.27	40.00	0.244	0.226	1.08
24	18:18	1.00	1.565	1.01	42.77	40.00	1.501	1.404	1.07
25	18:52	1.00	1.613	1.01	49.63	40.00	1.437	1.158	1.24
26	19:31	1.00	1.670	1.00	45.95	40.00	2.503	2.179	1.15
27	19:34	1.00	1.674	1.00	40.45	40.00	0.948	0.937	1.01
28	19:37	1.00	1.678	1.00	41.67	40.00	0.755	0.725	1.04
29	19:25	1.00	1.661	1.01	43.26	40.00	1.484	1.372	1.08
30	20:41	1.00	1.770	1.01	80.94	40.00	0.732	0.362	2.02
31	22:10	1.00	1.896	1.00	38.91	40.00	1.441	1.481	0.97
32	22:46	1.00	1.948	1.00	43.99	60.00	0.239	0.326	0.73
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	43.68	60.00	0.196	0.270	0.73
35	24:33	1.00	2.100	1.00	33.53	40.00	1.408	1.679	0.84
36	24:36	1.00	2.104	1.01	52.35	40.00	1.491	1.139	1.31
37	26:14	1.00	2.243	1.00	48.46	40.00	1.822	1.504	1.21
38	27:45	1.00	2.374	1.00	49.64	40.00	2.652	2.137	1.24
39	30:54	1.00	2.643	1.01	51.14	40.00	1.319	1.032	1.28
40	38:01	1.00	3.252	1.00	49.01	40.00	2.893	2.361	1.23
41	40:13	1.00	3.439	1.01	50.05	40.00	1.833	1.465	1.25
42	14:23	1.00	1.230	1.00	9.76	10.00	1.098	1.126	0.98
43	25:24	1.02	2.226	1.00	11.62	10.00	1.977	1.702	1.16
44	35:08	1.00	3.004	1.01	12.86	10.00	2.388	1.857	1.29

025220

QUANTITATION REPORT FILE: CSB40131818

DATA: CSB40131818.TI

01/31/84 18:07:00

SAMPLE: 20 ML DIH2O + SUL8(10936+10941) + STD. #1817

SUBMITTED BY: 18

ANALYST: SBA

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
- 1 206 CARBON TETRACHLORIDE
- 2 * 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 RET METH AREA(HGHT) AMOUNT %TOT

0025221

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HCMT)	AMOUNT	%TOT
1	130	229	11:38	1	1.000	A BV	64740.	10.000 UG/KG	0.35
2	50	53	2:42	1	0.231	A BV	155522.	39.999 UG/KG	1.40
3	94	86	4:22	1	0.376	A BB	574408.	39.999 UG/KG	1.40
4	62	105	5:20	1	0.459	A BB	600550.	39.999 UG/KG	1.40
5	64	129	6:33	1	0.563	A BB	105953.	39.999 UG/KG	1.40
6	84	171	8:42	1	0.747	A BB	427409.	39.999 UG/KG	1.40
7	58	182	9:15	1	0.795	A BB	85582.	299.987 UG/KG	10.49
8	56	182	9:15	1	0.795	A BV	160528.	399.988 UG/KG	13.99
9	53	194	9:52	1	0.847	A BB	324104.	399.987 UG/KG	13.99
10	101	211	10:44	1	0.921	A BV	504468.	39.999 UG/KG	1.40
11	76	202	10:16	1	0.882	A BB	883116.	39.999 UG/KG	1.40
12	96	223	11:20	1	0.974	A BV	217368.	39.999 UG/KG	1.40
13	65	247	12:33	1	1.079	A BV	95182.	39.999 UG/KG	1.40
14	96	261	13:16	1	1.140	A BV	239202.	39.999 UG/KG	1.40
15	83	270	13:43	1	1.177	A BV	455172.	39.999 UG/KG	1.40
16	62	285	14:29	1	1.245	A BB	259889.	39.999 UG/KG	1.40
17	72	284	14:26	1	1.240	A BV	138748.	299.987 UG/KG	10.49
18	97	313	15:55	1	1.367	A BB	370804.	39.999 UG/KG	1.40
19	117	320	16:16	1	1.397	A VB	428927.	39.999 UG/KG	1.40
20	79	412	20:57	20	1.000	A BV	38598.	10.000 UG/KG	0.35
21	43	321	16:19	1	1.402	A VB	257180.	39.999 UG/KG	1.40
22	127	327	16:37	1	1.428	A BB	52959.	39.999 UG/KG	1.40
23	65	357	18:09	1	1.559	A BB	63183.	39.999 UG/KG	1.40
24	75	361	18:21	1	1.576	A BB	388794.	39.999 UG/KG	1.40
25	130	372	18:55	1	1.624	A BV	372142.	39.999 UG/KG	1.40
26	78	384	19:31	1	1.677	A BV	648075.	39.999 UG/KG	1.40
27	97	385	19:34	1	1.681	A VB	245379.	39.999 UG/KG	1.40
28	75	386	19:37	1	1.686	A BV	195461.	39.999 UG/KG	1.40
29	127	383	19:28	1	1.672	A BB	384303.	39.999 UG/KG	1.40
30	63	408	20:44	1	1.782	A BB	189679.	39.999 UG/KG	1.40
31	173	436	22:10	1	1.904	A BV	373097.	39.999 UG/KG	1.40
32	58	448	22:46	1	1.956	A BB	92884.	59.999 UG/KG	2.10
33	55	491	24:58	33	1.000	A VV	67125.	10.000 UG/KG	0.35
34	58	479	24:21	1	2.092	A BB	76303.	59.999 UG/KG	2.10
35	83	483	24:33	1	2.109	A BV	364503.	39.999 UG/KG	1.40
36	164	485	24:39	1	2.118	A BV	386141.	39.999 UG/KG	1.40
37	92	516	26:14	1	2.253	A BV	471856.	39.999 UG/KG	1.40
38	112	546	27:45	1	2.384	A BB	686763.	39.999 UG/KG	1.40
39	106	609	30:57	1	2.659	A BB	341601.	39.999 UG/KG	1.40
40	104	748	38:01	1	3.266	A BB	749041.	39.999 UG/KG	1.40
41	106	792	40:16	1	3.459	A BB	474564.	39.999 UG/KG	1.40
42	65	283	14:23	1	1.236	A BB	71087.	10.000 UG/KG	0.35
43	100	512	26:02	1	2.236	A BB	128017.	10.000 UG/KG	0.35
44	176	693	35:14	1	3.026	A BB	154572.	10.000 UG/KG	0.35

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	11:38	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:42	1.00	0.231	1.00	40.00	40.00	0.601	0.601	1.00
3	4:22	1.00	0.376	1.00	40.00	40.00	2.218	2.218	1.00
4	5:20	1.00	0.459	1.00	40.00	40.00	2.319	2.319	1.00
5	6:33	1.00	0.563	1.00	40.00	40.00	0.409	0.409	1.00
6	8:42	1.00	0.747	1.00	40.00	40.00	1.651	1.651	1.00
7	9:15	1.00	0.795	1.00	299.99	299.99	0.044	0.044	1.00
8	9:15	1.00	0.795	1.00	399.99	399.99	0.062	0.062	1.00
9	9:52	1.00	0.847	1.00	399.99	399.99	0.125	0.125	1.00
10	10:44	1.00	0.921	1.00	40.00	40.00	1.948	1.948	1.00

1005222
000012

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:16	1.00	0.882	1.00	40.00	40.00	3.410	3.410	1.00
12	11:20	1.00	0.974	1.00	40.00	40.00	0.839	0.839	1.00
13	12:33	1.00	1.079	1.00	40.00	40.00	0.368	0.368	1.00
14	13:16	1.00	1.140	1.00	40.00	40.00	0.924	0.924	1.00
15	13:43	1.00	1.179	1.00	40.00	40.00	1.758	1.758	1.00
16	14:29	1.00	1.245	1.00	40.00	40.00	1.004	1.004	1.00
17	14:26	1.00	1.240	1.00	299.99	299.99	0.071	0.071	1.00
18	15:55	1.00	1.367	1.00	40.00	40.00	1.432	1.432	1.00
19	16:16	1.00	1.397	1.00	40.00	40.00	1.656	1.656	1.00
20	20:57	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:17	1.00	1.402	1.00	40.00	40.00	0.993	0.993	1.00
22	16:37	1.00	1.428	1.00	40.00	40.00	0.205	0.205	1.00
23	18:07	1.00	1.559	1.00	40.00	40.00	0.244	0.244	1.00
24	18:21	1.00	1.576	1.00	40.00	40.00	1.501	1.501	1.00
25	18:55	1.00	1.624	1.00	40.00	40.00	1.437	1.437	1.00
26	19:31	1.00	1.677	1.00	40.00	40.00	2.503	2.503	1.00
27	19:34	1.00	1.681	1.00	40.00	40.00	0.948	0.948	1.00
28	19:37	1.00	1.686	1.00	40.00	40.00	0.755	0.755	1.00
29	19:28	1.00	1.672	1.00	40.00	40.00	1.484	1.484	1.00
30	20:44	1.00	1.782	1.00	40.00	40.00	0.732	0.732	1.00
31	22:10	1.00	1.904	1.00	40.00	40.00	1.441	1.441	1.00
32	22:46	1.00	1.956	1.00	60.00	60.00	0.239	0.239	1.00
33	24:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:21	1.00	2.092	1.00	60.00	60.00	0.196	0.196	1.00
35	24:33	1.00	2.109	1.00	40.00	40.00	1.408	1.408	1.00
36	24:39	1.00	2.118	1.00	40.00	40.00	1.491	1.491	1.00
37	26:14	1.00	2.253	1.00	40.00	40.00	1.822	1.822	1.00
38	27:45	1.00	2.384	1.00	40.00	40.00	2.652	2.652	1.00
39	30:57	1.00	2.659	1.00	40.00	40.00	1.319	1.319	1.00
40	38:01	1.00	3.266	1.00	40.00	40.00	2.893	2.893	1.00
41	40:16	1.00	3.459	1.00	40.00	40.00	1.833	1.833	1.00
42	14:23	1.00	1.236	1.00	10.00	10.00	1.098	1.098	1.00
43	26:02	1.00	2.236	1.00	10.00	10.00	1.977	1.977	1.00
44	35:14	1.00	3.026	1.00	10.00	10.00	2.388	2.388	1.00

000013

025223

2333

Mead Compuchem
GC/MS Analysis Log

Initial Time of Turn 10:07
Time Turn Elapsed 2:27
00:00
152

Run Log

Press Hard, Multiple Copies

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	BFG40131A1R	-		2.2	633		188	10939
2	GBF40131A1R		-	10.2				10941, 1093
3	GC840131A1R			10.2				
4								
5	BG840131A1R	✓		2.0				10939
6	GDS40131A1R			10.2				10941, 1093
7	GE840131A1R	✓		20.1	584		188	10941, 1093
8	GS840131A1R	✓		20.1	584		188	10941, 1093
9	GH019266B1R			20.1	584		188	10941, 1093
10	GH019266B1R			20.1	584		188	10941, 1093
11	GH019266B1R			20.1	584		188	10941, 1093
12	GH019266B1R			20.1	584		188	10941, 1093
13	GH019266B1R			20.1	584		188	10941, 1093
14	GH019266B1R			20.1	584		188	10941, 1093
15								
16								
17								
18								
19								
20								

Shift(s) (A) 1 (B) 2 (C) 3
Date 11/31/87
Analysis Type 238

025225

Name	Used	Not Used	Amount injected	Operator	Tape No.	Disc. No.	COMMENTS
-	-		20ml	G33		188	10934
8	-		10ml 10ml	/		/	10941, 10936 MeCl ₂ =6.8
							MeCl ₂ =7.5
	✓		20ml	/		/	10934
			10ml			/	10941, 10936 MeCl ₂ =3.2
	✓		20ml	S84		188	10941, 10936 OK
5	✓		20ml	S84		188	10941, 10936 STD #1817 OK
18			20ml	SF4		188	10941, 10936
f			20ml	J84		188	10941, 10936
18			20ml	S84		188	10941, 10936
f			20ml	S84		188	10941, 10936
8			20ml	S84		188	10941, 10936
r			20ml	S84		188	10941, 10936, 10935 (spiked)

Circle correct code number: 237 (liquids) or 238 (solids)
 Instrument Procedure Code 237 (liquids) or 238 (solids)
 INITIAL MULTIPPOINT CALIBRATION DATE 1/30/84 OPERATOR 671

MEAD CONCORCHEN

EPA CONTRACT NO. 68-01-6762

INITIAL MULTIPPOINT CALIBRATION

DATE 1/30/84

OPERATOR 671

CALIBRATION CHECK
 Standard File Name 558703161
 Date 1/31/84
 Operator RF 0

COMPOUND NAME	AUTOQ NO.	SPCC/CCC	20 RF	40 RF	60 RF	RF	RRT
Chloroethane	2	SPCC	0.195	0.505	0.708	0.553	0.601
Vinyl chloride	4	CCC	2.110	1.772	2.202	2.036	2.319
1,1-Dichloroethylene	12	CCC	0.625	0.613	0.900	0.794	0.839
1,1-Dichloroethane	13	SPCC	0.935	0.501	0.391	0.378	0.368
Chloroform	15	CCC	1.877	1.577	1.236	1.643	1.758
1,2-Dichloropropane	23	CCC	0.271	0.185	0.255	0.241	0.244
2-Chloroethylvinylether	30	SPCC	0.434	0.297	0.523	0.408	0.732
Bromoform	31	SPCC	1.441	1.604	1.927	1.374	1.441
1,1,2,2-Tetrachloroethane	35	SPCC	1.805	1.577	1.778	1.551	1.708
Toluene	37	CCC	1.771	1.569	1.614	1.594	1.822
Chlorobenzene	38	SPCC	2.470	1.706	2.217	1.204	2.652

All RRT of each compound in the standard, including SPCC and CCC, must be within 7.8 - 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
 $SD = \frac{RF - RF}{RF} \times 100\%$

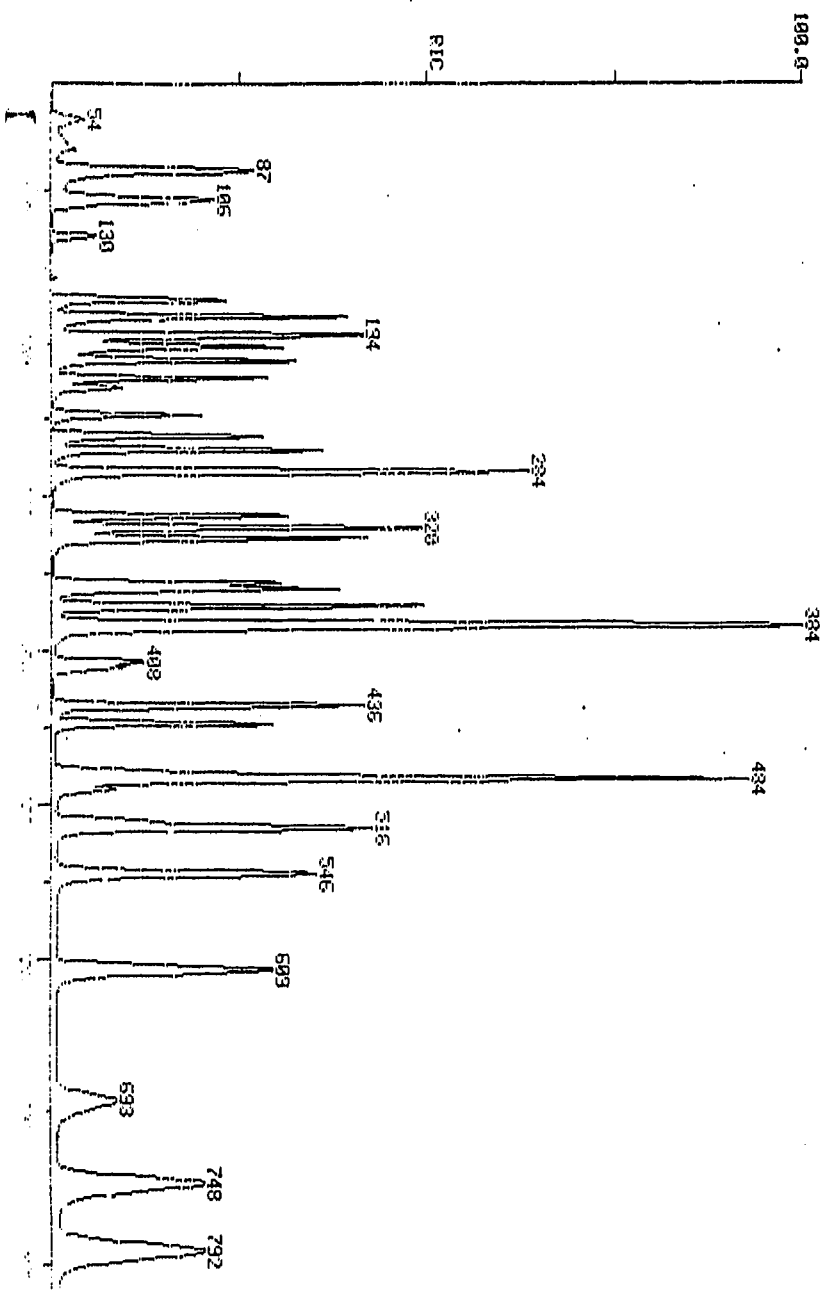
RF

POSTED
 REV 1/6/84, PEM

RIC
01/31/84 6:29:06
SAMPLE: 10 ML H2O + 5 UL (10936+10941) + MEDIUM LEVEL V238 STD 1817

NEED CONFIRCHEN
DATA: G5840131C18
SCANS 30 TO 820

025227
1505270.



000017

PROCEDURE: RK

DIAGNOSTIC REPORT

1/31/84 7:01 01

DATA FILE: G8840131C18

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 2 1 0 44 37 1 48 V238S1/V238U1

44 COMPOUNDS PROCESSED, 37 FOUND

COMPOUND		SEARCH				>< SAT ><		CHRO	
NO	LIB ENTRY	REF	PRED	SEL DELTA	PEAKS	FIT PEAKS	M/E	TOP	DELTA PEAK
1	PS	1	229	230	230	1	954	130	230
2	P6	1	411	411				79	411
3	F7	1	491	491	491	1	995	55	491
4	PS	2	54	54	54	1	989	50	54
5	PS	3	85	85				94	87
6	PS	4	105	105	105	1	979	62	106
7	PS	5	129	129	130	1	982	64	130
8	PS	6	171	171	172	1	982	84	172
9	PS	7	181	181	182	1	956	52	182
10	PS	8	181	181				56	182
11	PS	9	193	193	194	1	995	53	195
12	PS	10	211	211	211	1	985	101	211
13	PS	11	201	201	202	1	988	76	202
14	PS	12	223	223	223	1	979	96	223
15	PS	13	247	247	247	1	993	65	247
16	PS	14	261	261	261	1	983	96	261
17	PS	15	270	270	270	1	984	83	270
18	PS	16	285	285	285	1	963	62	285
19	PS	17	284	284	284	1	979	72	284
20	PS	18	312	312	313	1	984	97	313
21	PS	19	320	320	320	1	996	117	320
22	P6	2	321	321	321	1	973	43	321
23	P6	3	327	327	327	1	990	127	327
24	P6	4	356	356	357	1	993	65	356
25	P6	5	360	360	360	1	979	75	360
26	P6	6	371	371	371	1	974	130	371
27	P6	7	384	384	384	1	991	78	384
28	P6	8	385	385	385	1	989	97	385
29	P6	9	386	386				75	386
30	P6	10	383	383				127	382
31	P6	11	407	407	408	1	982	63	407
32	P6	12	436	436	436	1	973	173	436
33	P6	13	448	448	448	1	990	58	448
34	F7	2	479	479	479	1	951	58	479
35	F7	3	483	483				83	483
36	F7	4	484	484	484	1	955	164	484
37	F7	5	516	516	516	1	981	92	516
38	F7	6	546	546	546	1	975	112	546
39	F7	7	608	608	609	1	987	106	608
40	F7	8	747	747	747	1	987	104	748
41	F7	9	791	791	792	1	989	106	791
42	F8	2	284	284				65	283
43	F8	3	511	511	512	1	983	100	512
44	F8	4	692	692	692	1	993	176	691

025228

QUANTITATION REPORT FILE: GSB40131C18

DATA: GSB40131C18.TI

21/01/84 6:20:00

SAMPLE: 10 ML H2O + 5 UL (10936+10941) + MEDIUM LEVEL V238 STD 1817

SUBMITTED BY: LB

ANALYST: 714

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

RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BROMODICHLOROMETHANE (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 DIBROMODICHLOROMETHANE
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
1826

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

%TOT

025229

000000

20th 1/21/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (MGHT)	AMOUNT	%TOT
1	130	230	11:41	1	1.000	A BB	108330.	10.000 UG/KG	0.38
2	50	54	2:45	1	0.235	A BB	215571.	30.174 UG/KG	1.16
3	94	87	4:25	1	0.370	A BB	793277.	37.846 UG/KG	1.45
4	62	106	5:23	1	0.461	A BB	812453.	36.217 UG/KG	1.39
5	64	130	6:36	1	0.565	A BB	164429.	35.255 UG/KG	1.35
6	84	172	8:45	1	0.748	A BV	331401.	32.497 UG/KG	1.25
7	58	182	9:15	1	0.791	A VB	247205.	280.637 UG/KG	10.77
8	56	182	9:15	1	0.791	A BB	396416.	337.273 UG/KG	12.94
9	53	195	9:55	1	0.848	A BB	908413.	368.772 UG/KG	14.15
10	101	211	10:44	1	0.917	A BV	663298.	30.869 UG/KG	1.18
11	76	202	10:16	1	0.878	A BB	1392280.	32.738 UG/KG	1.26
12	96	223	11:20	1	0.970	A BV	320900.	38.528 UG/KG	1.48
13	65	247	12:33	1	1.074	A BV	1466097.	37.048 UG/KG	1.42
14	96	261	13:16	1	1.135	A BV	348403.	38.000 UG/KG	1.46
15	83	270	13:43	1	1.174	A BV	670224.	37.275 UG/KG	1.43
16	62	285	14:29	1	1.239	A BV	437454.	37.635 UG/KG	1.44
17	72	284	14:26	1	1.235	A BV	378294.	283.402 UG/KG	10.87
18	97	313	15:55	1	1.361	A BV	514166.	38.601 UG/KG	1.48
19	117	320	16:16	1	1.391	A VB	574554.	39.416 UG/KG	1.51
20	79	204	20:54	20	1.000	A BV	108330. 57755	10.000 UG/KG	0.38
21	43	321	16:19	1	1.395	A VB	551501.	34.015 UG/KG	1.30
22	127	327	16:37	1	1.422	A BB	74652.	38.416 UG/KG	1.47
23	65	356	18:06	1	1.548	A BB	97726.	36.768 UG/KG	1.41
24	75	360	18:18	1	1.565	A BB	608491.	37.544 UG/KG	1.44
25	130	371	18:52	1	1.613	A BV	501820.	39.003 UG/KG	1.50
26	78	384	19:31	1	1.670	A BB	744082.	38.226 UG/KG	1.47
27	97	385	19:34	1	1.674	A VV	406015.	38.604 UG/KG	1.48
28	75	386	19:37	1	1.678	A BB	313961.	37.605 UG/KG	1.44
29	127	382	19:25	1	1.661	A BB	594577.	39.146 UG/KG	1.50
30	63	407	20:41	1	1.770	A BV	156851.	36.231 UG/KG	1.39
31	173	434	22:10	1	1.876	A BV	641786.	39.608 UG/KG	1.52
32	58	448	22:46	1	1.948	A BB	211965.	54.650 UG/KG	2.10
33	55	497	24:58	33	1.000	A VB	108330. 125917	10.000 UG/KG	0.38
34	58	479	24:21	1	2.083	A VB	175372.	52.242 UG/KG	2.00
35	83	483	24:33	1	2.100	A BB	727535.	38.305 UG/KG	1.47
36	164	484	24:36	1	2.104	A BV	493724.	39.553 UG/KG	1.52
37	92	516	26:14	1	2.243	A BB	651737.	37.399 UG/KG	1.43
38	112	546	27:45	1	2.374	A BB	925922.	37.652 UG/KG	1.44
39	106	608	30:54	1	2.643	A BB	447096.	36.976 UG/KG	1.42
40	104	748	38:01	1	3.252	A BB	1022960.	32.833 UG/KG	1.26
41	106	791	40:13	1	3.439	A BB	634618.	32.806 UG/KG	1.26
42	65	283	14:23	1	1.236	A BB	121937.	9.070 UG/KG	0.35
43	100	512	26:02	1	2.224	A BB	184361.	8.685 UG/KG	0.33
44	176	691	35:08	1	3.004	A BB	201200.	9.023 UG/KG	0.35

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	11:38	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	2:45	1.00	0.236	1.00	30.19	40.00	0.497	0.659	0.75
3	4:22	1.01	0.376	1.01	37.85	40.00	1.831	1.935	0.95
4	5:20	1.01	0.459	1.01	36.22	40.00	1.875	2.071	0.91
5	6:33	1.01	0.563	1.00	35.26	40.00	0.379	0.431	0.88
6	8:38	1.01	0.742	1.01	32.50	40.00	0.765	0.941	0.81
7	9:12	1.01	0.790	1.00	280.64	299.99	0.076	0.081	0.94
8	9:12	1.01	0.790	1.00	337.27	399.99	0.091	0.108	0.86
9	9:49	1.01	0.843	1.01	368.77	399.99	0.210	0.227	0.92
10	10:44	1.00	0.921	1.00	30.87	40.00	1.531	1.984	0.77

25230

000000

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	10:13	1.00	0.878	1.00	32.74	40.00	3.213	3.926	0.82
12	11:20	1.00	0.974	1.00	38.53	40.00	0.741	0.769	0.96
13	12:33	1.00	1.079	1.00	37.05	40.00	0.337	0.364	0.93
14	13:16	1.00	1.140	1.00	38.00	40.00	0.804	0.846	0.95
15	13:43	1.00	1.179	1.00	37.28	40.00	1.547	1.660	0.93
16	14:29	1.00	1.245	1.00	37.64	40.00	1.010	1.073	0.94
17	14:23	1.00	1.236	1.00	283.40	279.79	0.116	0.123	0.94
18	15:52	1.00	1.362	1.00	38.60	40.00	1.187	1.230	0.97
19	16:16	1.00	1.397	1.00	39.42	40.00	1.326	1.346	0.99
20	20:54	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:19	1.00	1.402	1.00	34.02	40.00	1.273	1.497	0.85
22	16:37	1.00	1.428	1.00	38.42	40.00	0.172	0.179	0.96
23	18:06	1.00	1.555	1.00	36.77	40.00	0.226	0.245	0.92
24	18:18	1.00	1.572	1.00	37.54	40.00	1.404	1.496	0.94
25	18:52	1.00	1.620	1.00	39.00	40.00	1.158	1.188	0.98
26	19:28	1.00	1.672	1.00	38.23	40.00	2.179	2.280	0.96
27	19:34	1.00	1.681	1.00	38.60	40.00	0.937	0.971	0.97
28	19:37	1.00	1.686	1.00	37.61	40.00	0.725	0.771	0.94
29	19:25	1.00	1.668	1.00	39.15	40.00	1.372	1.402	0.98
30	20:41	1.00	1.777	1.00	36.23	40.00	0.362	0.400	0.91
31	22:10	1.00	1.904	1.00	39.61	40.00	1.481	1.496	0.99
32	22:46	1.00	1.956	1.00	54.65	60.00	0.326	0.358	0.91
33	24:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	24:21	1.00	2.092	1.00	52.24	60.00	0.270	0.310	0.87
35	24:33	1.00	2.109	1.00	38.30	40.00	1.679	1.753	0.96
36	24:36	1.00	2.114	1.00	39.55	40.00	1.139	1.152	0.99
37	26:14	1.00	2.253	1.00	37.40	40.00	1.504	1.609	0.94
38	27:45	1.00	2.384	1.00	37.65	40.00	2.137	2.270	0.94
39	30:54	1.00	2.655	1.00	37.00	40.00	1.032	1.116	0.92
40	37:58	1.00	3.262	1.00	32.83	40.00	2.361	2.876	0.82
41	40:13	1.00	3.454	1.00	32.81	40.00	1.465	1.786	0.82
42	14:23	1.00	1.236	1.00	9.07	10.00	1.126	1.241	0.91
43	25:59	1.00	2.231	1.00	8.69	10.00	1.702	1.960	0.87
44	35:14	1.00	3.026	0.99	9.02	10.00	1.857	2.058	0.90

nn0025231

QUANTITATION REPORT FILE: GSB40131C1B

DATA: GSB40131C1B.TI

01/31/84 6:20:00

SAMPLE: 10 ML H2O + 5 UL (10936+10941) + MEDIUM LEVEL V238 STD 1817

SUBMITTED BY: JB

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
- 25 227 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
- 41 234 O-XYLENE
- 42 # D4-1,2-DICHLOROETHANE
- 43 # D8-TOLUENE
- 44 # BROMOFLUOROBENZENE

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

0031002
025232

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	230	11:41	1	1.000	A BE	108330.	10.000 UG/KG	0.35
2	50	54	2:45	1	0.235	A BE	215571.	39.999 UG/KG	1.40
3	94	87	4:25	1	0.378	A BE	793277.	39.999 UG/KG	1.40
4	62	106	5:23	1	0.461	A BE	812453.	39.999 UG/KG	1.40
5	64	130	6:36	1	0.565	A BE	164429.	39.999 UG/KG	1.40
6	84	172	8:45	1	0.748	A BV	331401.	39.999 UG/KG	1.40
7	58	182	9:15	1	0.791	A VE	247205.	299.988 UG/KG	10.49
8	56	182	9:15	1	0.791	A BE	396416.	399.988 UG/KG	13.99
9	53	195	9:55	1	0.848	A BE	908413.	399.987 UG/KG	13.99
10	101	211	10:44	1	0.917	A BV	663298.	39.999 UG/KG	1.40
11	76	202	10:16	1	0.878	A BE	1392280.	39.999 UG/KG	1.40
12	96	223	11:20	1	0.970	A BV	320900.	39.999 UG/KG	1.40
13	65	247	12:33	1	1.074	A BV	146009.	39.999 UG/KG	1.40
14	96	261	13:16	1	1.135	A BV	348403.	39.999 UG/KG	1.40
15	83	270	13:43	1	1.174	A BV	670224.	39.999 UG/KG	1.40
16	62	285	14:29	1	1.239	A BV	437454.	39.999 UG/KG	1.40
17	72	284	14:26	1	1.235	A BV	378274.	299.987 UG/KG	10.49
18	97	313	15:55	1	1.361	A BV	514166.	39.999 UG/KG	1.40
19	117	320	16:16	1	1.391	A VE	574554.	39.999 UG/KG	1.40
20	79	411	20:54	20	1.000	A BV	57955.	10.000 UG/KG	0.35
21	43	321	16:19	1	1.396	A VE	551501.	39.999 UG/KG	1.40
22	127	327	16:37	1	1.422	A BE	74652.	39.999 UG/KG	1.40
23	65	356	18:06	1	1.548	A BE	97726.	39.999 UG/KG	1.40
24	75	360	18:18	1	1.565	A BE	608491.	39.999 UG/KG	1.40
25	130	371	18:52	1	1.613	A BV	501820.	39.999 UG/KG	1.40
26	78	384	19:31	1	1.670	A BE	944082.	39.999 UG/KG	1.40
27	97	385	19:34	1	1.674	A VV	406015.	39.999 UG/KG	1.40
28	75	386	19:37	1	1.678	A BE	313961.	39.999 UG/KG	1.40
29	127	382	19:25	1	1.661	A BE	594577.	39.999 UG/KG	1.40
30	63	407	20:41	1	1.770	A BV	156851.	39.999 UG/KG	1.40
31	173	436	22:10	1	1.896	A BV	641786.	39.999 UG/KG	1.40
32	58	448	22:46	1	1.948	A BE	211965.	59.999 UG/KG	2.10
33	55	491	24:58	33	1.000	A VE	125919.	10.000 UG/KG	0.35
34	58	479	24:21	1	2.083	A VE	175372.	59.999 UG/KG	2.10
35	83	483	24:33	1	2.100	A BE	727535.	39.999 UG/KG	1.40
36	164	484	24:36	1	2.104	A BV	493724.	39.999 UG/KG	1.40
37	96	516	26:14	1	2.243	A BE	651737.	39.999 UG/KG	1.40
38	112	546	27:45	1	2.374	A BE	925922.	39.999 UG/KG	1.40
39	106	608	30:54	1	2.643	A BE	447096.	39.999 UG/KG	1.40
40	104	748	38:01	1	3.252	A BE	1022960.	39.999 UG/KG	1.40
41	106	791	40:13	1	3.439	A BE	634618.	39.999 UG/KG	1.40
42	65	283	14:23	1	1.230	A BE	121937.	10.000 UG/KG	0.35
43	100	512	26:02	1	2.226	A BE	184361.	10.000 UG/KG	0.35
44	176	691	35:08	1	3.004	A BE	201200.	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	0.497	0.497	1.00
3	4:25	1.00	0.378	1.00	40.00	40.00	1.831	1.831	1.00
4	5:23	1.00	0.461	1.00	40.00	40.00	1.875	1.875	1.00
5	6:36	1.00	0.565	1.00	40.00	40.00	0.379	0.379	1.00
6	8:45	1.00	0.748	1.00	40.00	40.00	0.765	0.765	1.00
7	9:15	1.00	0.791	1.00	299.99	299.99	0.076	0.076	1.00
8	9:15	1.00	0.791	1.00	399.99	399.99	0.091	0.091	1.00
9	9:55	1.00	0.848	1.00	399.99	399.99	0.210	0.210	1.00
10	10:44	1.00	0.917	1.00	40.00	40.00	1.531	1.531	1.00

025233

000000

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	40.00	40.00	3.213	3.213	1.00
12	11:20	1.00	0.970	1.00	40.00	40.00	0.741	0.741	1.00
13	12:33	1.00	1.074	1.00	40.00	40.00	0.337	0.337	1.00
14	13:16	1.00	1.135	1.00	40.00	40.00	0.804	0.804	1.00
15	13:43	1.00	1.174	1.00	40.00	40.00	1.547	1.547	1.00
16	14:29	1.00	1.239	1.00	40.00	40.00	1.010	1.010	1.00
17	14:26	1.00	1.235	1.00	299.99	299.99	0.116	0.116	1.00
18	15:55	1.00	1.361	1.00	40.00	40.00	1.187	1.187	1.00
19	16:16	1.00	1.391	1.00	40.00	40.00	1.326	1.326	1.00
20	20:54	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	16:19	1.00	1.396	1.00	40.00	40.00	1.273	1.273	1.00
22	16:37	1.00	1.422	1.00	40.00	40.00	0.172	0.172	1.00
23	18:06	1.00	1.548	1.00	40.00	40.00	0.226	0.226	1.00
24	18:18	1.00	1.565	1.00	40.00	40.00	1.404	1.404	1.00
25	18:52	1.00	1.613	1.00	40.00	40.00	1.158	1.158	1.00
26	19:31	1.00	1.670	1.00	40.00	40.00	2.179	2.179	1.00
27	19:34	1.00	1.674	1.00	40.00	40.00	0.937	0.937	1.00
28	19:37	1.00	1.678	1.00	40.00	40.00	0.725	0.725	1.00
29	19:25	1.00	1.661	1.00	40.00	40.00	1.372	1.372	1.00
30	20:41	1.00	1.770	1.00	40.00	40.00	0.362	0.362	1.00
31	22:10	1.00	1.896	1.00	40.00	40.00	1.481	1.481	1.00
32	22:46	1.00	1.948	1.00	60.00	60.00	0.326	0.326	1.00
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	60.00	60.00	0.270	0.270	1.00
35	24:33	1.00	2.100	1.00	40.00	40.00	1.679	1.679	1.00
36	24:36	1.00	2.104	1.00	40.00	40.00	1.139	1.139	1.00
37	26:14	1.00	2.243	1.00	40.00	40.00	1.504	1.504	1.00
38	27:45	1.00	2.374	1.00	40.00	40.00	2.137	2.137	1.00
39	30:54	1.00	2.643	1.00	40.00	40.00	1.032	1.032	1.00
40	38:01	1.00	3.252	1.00	40.00	40.00	2.361	2.361	1.00
41	40:13	1.00	3.439	1.00	40.00	40.00	1.465	1.465	1.00
42	14:23	1.00	1.230	1.00	10.00	10.00	1.126	1.126	1.00
43	26:02	1.00	2.226	1.00	10.00	10.00	1.702	1.702	1.00
44	35:08	1.00	3.004	1.00	10.00	10.00	1.857	1.857	1.00

025234
000001

2333

Shift: _____
Date: _____
Area: _____

02523

Run Log		Press Hard, Multiple Copies				
File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc No.
BF64031C18	✓		2yd	714		188
GB84031C18			10ml	714		188
GS44031C18			10ml	714		188
GI019124C18			10ml	714		188
GR018574A18			10ml	633		188
GH019365A18						
GH019366A18						
GH019257A18						
GH019264A18						
GH019454A18						
GH019265A18						

025236

Proves Hard, Multiple Copies

[illegible]

Circle correct code number: 237 (liquids) or 238 (solids)
 Instrument Procedure Code
 INITIAL MULTIPPOINT CALIBRATION DATE 1/30/84 OPERATOR 171

EPA CONTROL NO. 68-01-6762

CALIBRATION CHECK
 Standard File Name 6581010518
 Operator 249
 Date 11/1/84

COMPOUND NAME	AUTOQ NO.	SPCC/CCC	20 RF	40 RF	60 RF	RF	RT	RF	RT
Chloroethane	2	SPCC	0.795	0.505	0.709	0.653		0.497	
Vinyl chloride	4	CCC	2.610	1.777	2.202	2.036		1.875	
1,1-Dichloroethylene	12	CCC	0.865	0.623	0.890	0.794		0.744	
1,1-Dichloroethane	13	SPCC	0.935	0.594	0.897	0.538		0.337	
Chloroform	15	CCC	1.871	1.377	1.736	1.663		1.547	
1,2-Dichloropropane	23	CCC	0.271	0.135	0.256	0.291		0.234	
2-Chloroethylvinylether	30	SPCC	0.939	0.293	0.523	0.408		0.362	
Bromoform	31	SPCC	1.991	1.604	1.927	1.374		1.481	
1,1,2,2-Tetrachloroethane	35	SPCC	1.805	1.371	1.779	1.651		1.679	
Toluene	37	CCC	1.271	1.379	1.614	1.594		1.504	
Chlorobenzene	38	SPCC	2.470	1.306	2.217	1.204		2.137	

All RMT 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

$$SD = \frac{RF - RF}{RF} \times 100\%$$

RF

POSTED

2.2
mhp

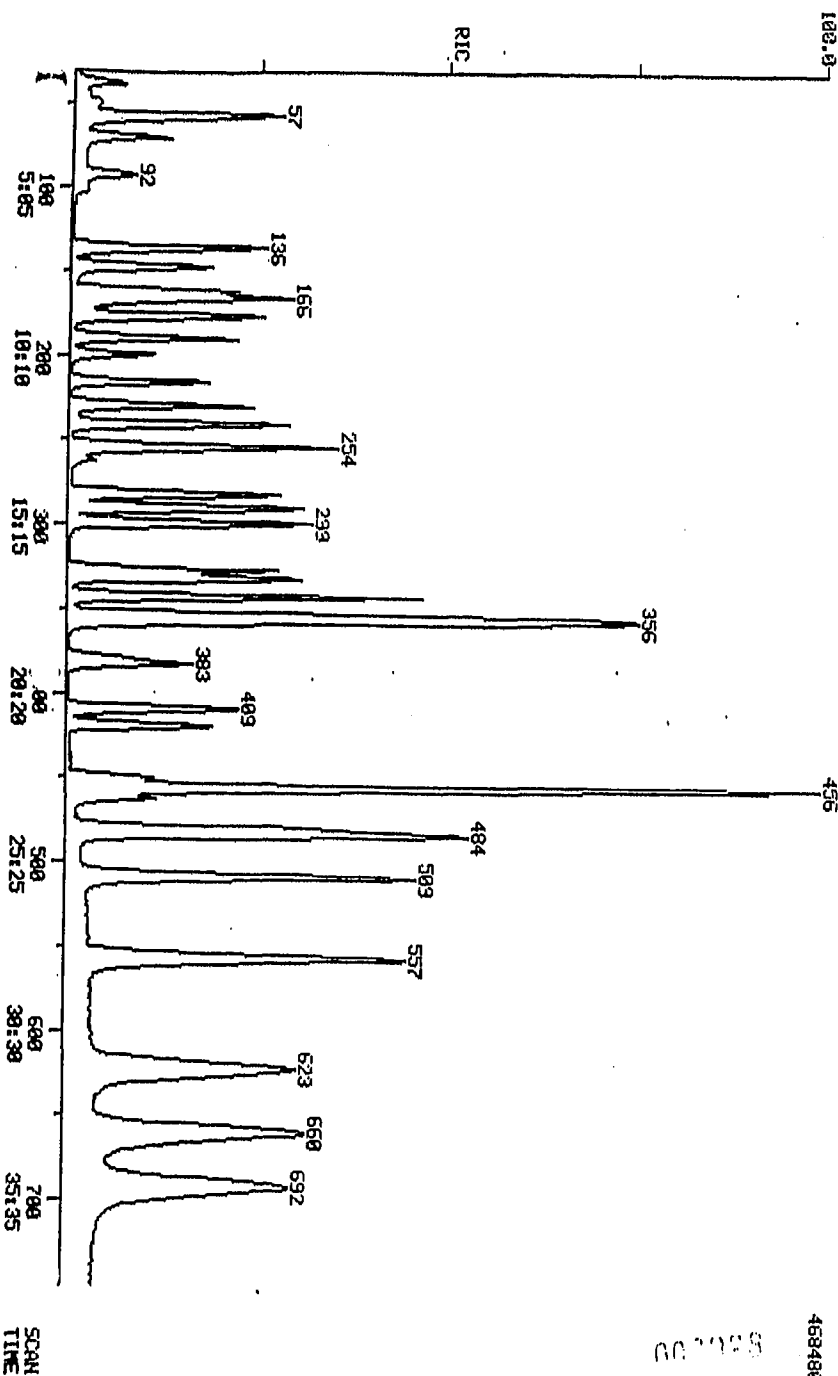
RIC
01/31/83 21:02:00
SAMPLE: EHP 10ML H2O+STD#1815

MEAD COMPUCHEN
DATA: G0840131812

SCANS 30 TO 750

025238

468480.



PROCEDURE: RK
 DATA FILE: CUB40131B12
 REFERENCE: V238
 METHOD: V238
 REPORT: V238S1

DIAGNOSTIC REPORT

1/31/83 21:50:28

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- > < --- PLUS UNKNOWN --- > < - LIST NAMES - >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 3 3 1 80 44 36 1 44 V238S1/V238U1

44 COMPOUNDS PROCESSED, 36 FOUND

< COMPOUND >		SEARCH				> SAT >		> CHRO >				
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	P5	1	-199	199	199	1	938	130	177			1
2	P6	1	-382	382	383	1	744	79	382	-1		1
3	P7	1	-463	463	463	1	976	55	463			1
4	P5	2	-37	37				50	37			1
5	P5	3	-57	57	57	1	928	94	57			1
6	P5	4	-71	71	70	-1	904	62	70			1
7	P5	5	-92	92	92	1	909	64	92			1
8	P5	6	-136	136				84	136			1
9	P5	7	-147	147	147	1	948	58	147			1
10	P5	8	-147	147				56	147			1
11	P5	9	-162	162	162	1	990	53	162			1
12	P5	10	-177	177	177	1	908	101	177			1
13	P5	11	-166	166	166	1	974	76	166			1
14	P5	12	-190	190	190	1	929	96	190			1
15	P5	13	-216	216	216	1	935	65	216			1
	P5	14	-229	229	230	1	945	96	230			1
17	P5	15	-241	241				83	241			1
18	P5	16	-255	255	256	1	937	62	256			1
19	P5	17	-253	253	254	1	970	72	254			1
20	P5	18	-282	282	282	1	941	97	282			1
21	P5	19	-290	290	290	1	941	117	290			1
22	P6	2	-291	291	291	1	927	43	291			1
23	P6	3	-299	299	299	1	942	127	299			1
24	P6	4	-327	327	327	1	962	65	327			1
25	P6	5	-332	332	332	1	918	75	332			1
26	P6	6	-342	342	343	1	929	130	343			1
27	P6	7	-354	354	354	1	987	78	354			1
28	P6	8	-357	357	357	1	981	97	357			1
29	P6	9	-357	357				75	358			1
30	P6	10	-355	355				127	355			1
31	P6	11	-379	379	379	1	947	63	379			1
32	P6	12	-409	409	409	1	978	173	409			1
33	P6	13	-419	419	419	1	949	58	419			1
34	P7	2	-450	450	450	1	933	58	450			1
35	P7	3	-456	456				83	456			1
36	P7	4	-456	456	456	1	900	164	456			1
37	P7	5	-484	484	484	1	966	92	484			1
38	P7	6	-509	509	509	1	957	112	509			1
39	P7	7	-557	557	557	1	969	106	557			1
40	P7	8	-660	660	660	1	967	104	660			1
41	P7	9	-693	693	692	-1	977	106	692			1
	P8	2	-254	254				65	254			1
43	P8	3	-480	480	480	1	964	100	480			1
44	P8	4	-621	621	621	1	968	176	621			1

025239

QUANTITATION REPORT FILE: G0840131B12

DATA: G0840131B12.TI

0.1/83 21:02:00

SAMPLE: EHP 10ML H2O+STD#1B16

SUBMITTED BY: 12

ANALYST: 673

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	* DB-TOLUENE
44	* BROMOFLUOROBENZENE

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

025240

000000

15/64

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	199	10:07	1	1.000	A BV	52961.	10.000 UG/KG	0.73
2	50	37	1:53	1	0.186	A BV	79231.	15.802 UG/KG	1.15
3	94	57	2:54	1	0.286	A BV	206378.	17.529 UG/KG	1.28
4	62	70	3:33	1	0.352	A BV	124334.	16.801 UG/KG	1.22
5	64	92	4:41	1	0.462	A BV	67058.	17.595 UG/KG	1.28
6	84	136	6:55	1	0.683	A BV	173734.	26.055 UG/KG	1.90
7	58	147	7:20	1	0.739	A BV	52709.	133.044 UG/KG	9.70
8	56	147	7:28	1	0.739	A BB	97420.	177.326 UG/KG	12.92
9	53	162	8:14	1	0.814	A BV	169536.	175.004 UG/KG	12.75
10	101	177	9:00	1	0.889	A BB	205287.	17.742 UG/KG	1.29
11	76	166	8:26	1	0.834	A BB	437062.	19.351 UG/KG	1.41
12	96	190	9:39	1	0.955	A BB	93514.	18.730 UG/KG	1.36
13	65	216	10:59	1	1.085	A BB	52873.	19.243 UG/KG	1.40
14	96	230	11:41	1	1.156	A BB	107898.	18.839 UG/KG	1.37
15	83	241	12:15	1	1.211	A BB	219284.	19.437 UG/KG	1.42
16	62	256	13:01	1	1.286	A BB	116303.	18.568 UG/KG	1.35
17	72	254	12:55	1	1.276	A BB	86721.	135.127 UG/KG	9.85
18	97	282	14:20	1	1.417	A BB	159974.	18.504 UG/KG	1.35
19	117	290	14:44	1	1.457	A VB	143594.	17.821 UG/KG	1.30
20	79	282	19:25	20	1.000	A BB	25444.5296	10.000 UG/KG	0.73
21	43	291	14:48	1	1.462	A BV	104661.	18.485 UG/KG	1.35
22	127	299	15:12	1	1.503	A BB	18727.	17.825 UG/KG	1.30
23	65	327	16:37	1	1.643	A BB	40078.	19.443 UG/KG	1.42
24	75	332	16:53	1	1.668	A BB	199106.	18.680 UG/KG	1.36
25	130	343	17:26	1	1.724	A BV	170985.	17.862 UG/KG	1.30
26	78	354	18:00	1	1.779	A BB	347372.	18.569 UG/KG	1.35
27	97	357	18:09	1	1.794	A VB	122275.	17.346 UG/KG	1.26
28	75	358	18:12	1	1.799	A BB	95974.	17.748 UG/KG	1.29
29	127	355	18:03	1	1.784	A BB	151673.	16.486 UG/KG	1.20
30	63	379	19:16	1	1.905	A BB	38297.	68.255 UG/KG	4.97
31	173	409	20:47	1	2.055	A BV	122164.	18.626 UG/KG	1.21
32	58	419	21:18	1	2.106	A BB	63576.	27.455 UG/KG	2.00
33	55	443	23:32	33	1.000	A VB	71289.5296	10.000 UG/KG	0.73
34	58	450	22:52	1	2.261	A BB	50828.	27.822 UG/KG	2.03
35	83	456	23:11	1	2.291	A BV	231620.	18.109 UG/KG	1.32
36	164	456	23:11	1	2.291	A BB	145961.	17.197 UG/KG	1.25
37	92	484	24:36	1	2.432	A BB	237498.	19.325 UG/KG	1.41
38	112	509	25:52	1	2.558	A BV	350132.	19.195 UG/KG	1.40
39	106	557	28:19	1	2.799	A BB	206575.	19.187 UG/KG	1.40
40	104	660	33:33	1	3.317	A BB	423263.	18.989 UG/KG	1.38
41	106	692	35:11	1	3.477	A BB	258155.	19.584 UG/KG	1.42
42	65	254	12:55	1	1.276	A BB	58250.	8.048 UG/KG	0.59
43	100	480	24:24	1	2.412	A BV	125345.	8.903 UG/KG	0.65
44	176	621	31:34	1	3.121	A BB	107120.	8.613 UG/KG	0.63

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:10	0.99	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	1:56	0.97	0.190	0.98	15.80	20.00	0.748	0.947	0.79
3	2:57	0.98	0.290	0.99	17.53	20.00	1.948	2.223	0.88
4	3:37	0.99	0.355	0.99	16.80	20.00	1.174	1.397	0.84
5	4:44	0.99	0.465	0.99	17.60	20.00	0.633	0.720	0.88
6	6:58	0.99	0.685	1.00	26.06	20.00	1.640	1.259	1.30
7	7:31	0.99	0.740	1.00	133.04	150.00	0.066	0.075	0.89
8	7:31	0.99	0.740	1.00	177.33	200.00	0.092	0.104	0.89
9	8:17	0.99	0.815	1.00	175.00	200.00	0.160	0.183	0.88
10	9:03	0.99	0.890	1.00	17.74	20.00	1.938	2.185	0.89

025241

000001

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	8:29	0.99	0.835	1.00	19.35	20.00	4.126	4.265	0.97
12	9:43	0.99	0.955	1.00	18.73	20.00	0.883	0.943	0.94
13	11:02	1.00	1.085	1.00	19.24	20.00	0.499	0.519	0.96
14	11:41	1.00	1.150	1.01	18.84	20.00	1.019	1.081	0.94
15	12:18	1.00	1.210	1.00	19.44	20.00	2.070	2.130	0.97
16	13:01	1.00	1.280	1.01	18.57	20.00	1.098	1.183	0.93
17	12:55	1.00	1.270	1.01	135.13	150.00	0.109	0.121	0.90
18	14:23	1.00	1.415	1.00	18.50	20.00	1.510	1.632	0.93
19	14:48	1.00	1.455	1.00	17.82	20.00	1.356	1.521	0.89
20	19:28	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	14:51	1.00	1.460	1.00	18.48	20.00	0.988	1.069	0.92
22	15:15	1.00	1.500	1.00	17.82	20.00	0.177	0.198	0.89
23	16:40	1.00	1.640	1.00	19.44	20.00	0.378	0.389	0.97
24	16:56	1.00	1.665	1.00	18.68	20.00	1.880	2.013	0.93
25	17:26	1.00	1.715	1.01	17.86	20.00	1.614	1.807	0.89
26	18:03	1.00	1.775	1.00	18.57	20.00	3.280	3.532	0.93
27	18:12	1.00	1.790	1.00	17.35	20.00	1.154	1.331	0.87
28	18:12	1.00	1.790	1.01	17.75	20.00	0.906	1.021	0.89
29	18:06	1.00	1.780	1.00	16.49	20.00	1.432	1.737	0.82
30	19:19	1.00	1.900	1.00	68.26	20.00	0.362	0.106	3.41
31	20:50	1.00	2.050	1.00	16.63	20.00	1.153	1.387	0.83
32	21:21	1.00	2.100	1.00	27.46	30.00	0.400	0.437	0.92
33	23:32	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
34	22:56	1.00	2.255	1.00	27.82	30.00	0.320	0.345	0.93
35	23:14	1.00	2.285	1.00	18.11	20.00	2.187	2.415	0.91
36	23:14	1.00	2.285	1.00	17.20	20.00	1.378	1.603	0.86
37	24:39	1.00	2.425	1.00	19.33	20.00	2.242	2.321	0.97
38	25:55	1.00	2.550	1.00	19.19	20.00	3.306	3.444	0.96
39	28:22	1.00	2.790	1.00	19.19	20.00	1.950	2.033	0.96
40	33:39	1.00	3.310	1.00	18.99	20.00	3.996	4.209	0.95
41	35:17	1.00	3.470	1.00	19.50	20.00	2.437	2.499	0.98
42	12:58	1.00	1.275	1.00	8.05	10.00	1.100	1.367	0.80
43	24:27	1.00	2.405	1.00	8.90	10.00	2.556	2.870	0.89
44	31:40	1.00	3.115	1.00	8.61	10.00	2.023	2.348	0.86

025242

002982

QUANTITATION REPORT FILE: GUB40131B12

DATA: GUB40131B12.TI

31/83 21:02:00

SAMPLE: EHP 10ML H2O+STD#1B16

SUBMITTED BY: 12

ANALYST: 673

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

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

ZTOT

025243

31

000003

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HCMT)	AMOUNT	%TOT
1	130	199	10:07	1	1.000	A BV	52961.	10.000 UG/KG	0.68
2	50	37	1:53	1	0.186	A BV	79231.	20.000 UG/KG	1.37
3	94	57	2:54	1	0.286	A BV	206378.	20.000 UG/KG	1.37
4	62	70	3:33	1	0.352	A BV	124334.	20.000 UG/KG	1.37
5	64	92	4:41	1	0.462	A BV	67058.	20.000 UG/KG	1.37
6	84	136	6:55	1	0.683	A BV	173734.	20.000 UG/KG	1.37
7	58	147	7:28	1	0.739	A BV	52709.	149.977 UG/KG	10.27
8	56	147	7:28	1	0.739	A BB	97420.	199.978 UG/KG	13.70
9	53	162	8:14	1	0.814	A BV	169536.	199.977 UG/KG	13.70
10	101	177	9:00	1	0.889	A BB	205287.	20.000 UG/KG	1.37
11	76	166	8:26	1	0.834	A BB	437062.	20.000 UG/KG	1.37
12	96	190	9:39	1	0.955	A BB	93514.	20.000 UG/KG	1.37
13	65	216	10:59	1	1.085	A BB	52873.	20.000 UG/KG	1.37
14	96	230	11:41	1	1.156	A BB	107898.	20.000 UG/KG	1.37
15	83	241	12:15	1	1.211	A BB	219284.	20.000 UG/KG	1.37
16	62	256	13:01	1	1.286	A BB	116303.	20.000 UG/KG	1.37
17	72	254	12:55	1	1.276	A BB	86721.	149.977 UG/KG	10.27
18	97	282	14:20	1	1.417	A BB	159974.	20.000 UG/KG	1.37
19	117	290	14:44	1	1.457	A VB	143594.	20.000 UG/KG	1.37
20	79	382	19:25	20	1.000	A BB	39646.	10.000 UG/KG	0.68
21	43	291	14:48	1	1.462	A BV	104661.	20.000 UG/KG	1.37
22	127	299	15:12	1	1.503	A BB	18727.	20.000 UG/KG	1.37
23	65	327	16:37	1	1.643	A BB	40078.	20.000 UG/KG	1.37
24	75	332	16:53	1	1.668	A BB	199106.	20.000 UG/KG	1.37
25	130	343	17:26	1	1.724	A BV	170985.	20.000 UG/KG	1.37
26	78	354	18:00	1	1.779	A BB	347372.	20.000 UG/KG	1.37
27	97	357	18:09	1	1.794	A VB	122275.	20.000 UG/KG	1.37
28	75	358	18:12	1	1.799	A BB	95974.	20.000 UG/KG	1.37
29	127	355	18:03	1	1.784	A BB	151673.	20.000 UG/KG	1.37
30	63	379	19:16	1	1.905	A BB	38297.	20.000 UG/KG	1.37
31	173	409	20:47	1	2.055	A BV	122164.	20.000 UG/KG	1.37
32	58	419	21:18	1	2.106	A BB	63576.	30.000 UG/KG	2.05
33	55	463	23:32	33	1.000	A VB	71289.	10.000 UG/KG	0.68
34	58	450	22:52	1	2.261	A BB	50828.	30.000 UG/KG	2.05
35	83	456	23:11	1	2.291	A BV	231620.	20.000 UG/KG	1.37
36	164	456	23:11	1	2.291	A BB	145961.	20.000 UG/KG	1.37
37	92	484	24:36	1	2.432	A BB	237498.	20.000 UG/KG	1.37
38	112	509	25:52	1	2.558	A BV	350132.	20.000 UG/KG	1.37
39	106	557	28:19	1	2.799	A BB	206575.	20.000 UG/KG	1.37
40	104	660	33:33	1	3.317	A BB	423263.	20.000 UG/KG	1.37
41	106	692	35:11	1	3.477	A BB	258155.	20.000 UG/KG	1.37
42	65	254	12:55	1	1.276	A BB	58250.	10.000 UG/KG	0.68
43	100	480	24:24	1	2.412	A BV	135345.	10.000 UG/KG	0.68
44	176	621	31:34	1	3.121	A BB	107120.	10.000 UG/KG	0.68

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:07	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	1:53	1.00	0.186	1.00	20.00	20.00	0.748	0.748	1.00
3	2:54	1.00	0.286	1.00	20.00	20.00	1.948	1.948	1.00
4	3:33	1.00	0.352	1.00	20.00	20.00	1.174	1.174	1.00
5	4:41	1.00	0.462	1.00	20.00	20.00	0.633	0.633	1.00
6	6:55	1.00	0.683	1.00	20.00	20.00	1.640	1.640	1.00
7	7:28	1.00	0.739	1.00	150.00	150.00	0.066	0.066	1.00
8	7:28	1.00	0.739	1.00	200.00	200.00	0.092	0.092	1.00
9	8:14	1.00	0.814	1.00	200.00	200.00	0.160	0.160	1.00
10	9:00	1.00	0.889	1.00	20.00	20.00	1.938	1.938	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
11	8:26	1.00	0.834	1.00	20.00	20.00	4.126	4.126	1.00
12	9:39	1.00	0.955	1.00	20.00	20.00	0.883	0.883	1.00
13	10:59	1.00	1.085	1.00	20.00	20.00	0.499	0.499	1.00
14	11:41	1.00	1.156	1.00	20.00	20.00	1.019	1.019	1.00
15	12:15	1.00	1.211	1.00	20.00	20.00	2.070	2.070	1.00
16	13:01	1.00	1.286	1.00	20.00	20.00	1.098	1.098	1.00
17	12:55	1.00	1.276	1.00	150.00	150.00	0.109	0.109	1.00
18	14:20	1.00	1.417	1.00	20.00	20.00	1.510	1.510	1.00
19	14:44	1.00	1.457	1.00	20.00	20.00	1.356	1.356	1.00
20	19:25	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
21	14:48	1.00	1.462	1.00	20.00	20.00	0.988	0.988	1.00
22	15:12	1.00	1.503	1.00	20.00	20.00	0.177	0.177	1.00
23	16:37	1.00	1.643	1.00	20.00	20.00	0.378	0.378	1.00
24	16:53	1.00	1.668	1.00	20.00	20.00	1.880	1.880	1.00
25	17:26	1.00	1.724	1.00	20.00	20.00	1.614	1.614	1.00
26	18:00	1.00	1.779	1.00	20.00	20.00	3.280	3.280	1.00
27	18:09	1.00	1.794	1.00	20.00	20.00	1.154	1.154	1.00
28	18:12	1.00	1.799	1.00	20.00	20.00	0.906	0.906	1.00
29	18:03	1.00	1.784	1.00	20.00	20.00	1.432	1.432	1.00
30	19:16	1.00	1.905	1.00	20.00	20.00	0.362	0.362	1.00
31	20:47	1.00	2.055	1.00	20.00	20.00	1.153	1.153	1.00
32	21:18	1.00	2.106	1.00	30.00	30.00	0.400	0.400	1.00
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	30.00	30.00	0.320	0.320	1.00
35	23:11	1.00	2.291	1.00	20.00	20.00	2.187	2.187	1.00
36	23:11	1.00	2.291	1.00	20.00	20.00	1.378	1.378	1.00
37	24:36	1.00	2.432	1.00	20.00	20.00	2.242	2.242	1.00
38	25:52	1.00	2.558	1.00	20.00	20.00	3.306	3.306	1.00
39	28:19	1.00	2.799	1.00	20.00	20.00	1.950	1.950	1.00
40	33:33	1.00	3.317	1.00	20.00	20.00	3.996	3.996	1.00
41	35:11	1.00	3.477	1.00	20.00	20.00	2.437	2.437	1.00
42	12:55	1.00	1.276	1.00	10.00	10.00	1.100	1.100	1.00
43	24:24	1.00	2.412	1.00	10.00	10.00	2.556	2.556	1.00
44	31:34	1.00	3.121	1.00	10.00	10.00	2.023	2.023	1.00

025245
000000

2333

Mead ComputChem GC/MS Analysis Log

Run Log

Press Hard, Multiple Copies

Initial Time of Run 02:20
Time Time Elapsed 02:20
Si
D
A

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	RG840131012			2.0	SM		1A)	109359
2	CG840131012			10.4	SM	deliber	11)	109359
3	CG840131012			10.4	67)	deliber	12)	109359, 10941
4	CG840131012			10.4	67)	deliber	12)	109359, 10941
5	CG840131012			10.4	67)	deliber	12)	109359, 10941
6	CG840131012			10.4	67)		12)	109359, 10941
7	CG840131012			10.4	67)		12)	109359, 10941
8	CG840131012			10.4	67)		12)	109359, 10941
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Shift(s) (A) 1-31-84 (B) _____ (C) _____
Date _____
Analysis Type V-252

Press Hard, Multiple Copies

025247

[illegible]

Circle correct code number: 237 (liquids) or 238 (solids)
 Instrument Procedure Code
 INITIAL MULTIPPOINT CALIBRATION DATE 1-31-84 OPERATOR SGT

DATE 12-5-77

COMPOUND NAME	AUTOQ NO.	SPCC/CCC	20 RF	40 RF	60 RF	RRT	CALIBRATION CHECK Standard File Name Operator RF 800 mg	Date 6-1-80
Chloroethane	2	SPCC	0.554	0.57	0.607	0.633	1.174	15.2
Vinyl chloride	4	CCC	0.542	0.332	1.251	1.019	0.883	2.4
1,1-Dichloroethylene	12	CCC	0.917	0.201	0.712	0.905		
1,1-Dichloroethane	13	SPCC	0.527	0.415	0.522	0.485		
Chloroform	15	CCC	2.112	2.112	2.122	2.123	0.445-2.070	2.5
1,2-Dichloropropane	23	CCC	0.376	0.334	0.334	0.369	0.378	2.4
2-Chloroethylvinylether	30	SPCC	0.447	0.110	0.576	0.378		
Bromoform	31	SPCC	1.337	1.022	1.477	1.467	1.497	
1,1,2,2-Tetrachloroethane	35	SPCC	2.478	1.700	2.236	2.431	2.320	
Toluene	37	CCC	1.242	1.373	1.361	2.809	2.168	3.4
Chlorobenzene	38	SPCC	3.500	2.679	2.162	3.112		

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

RF

SD = $\frac{RF - RF}{RF} \times 100\%$

POSTED *ok*

REV 1/6/84, PER

025248

B

025249

000000

31

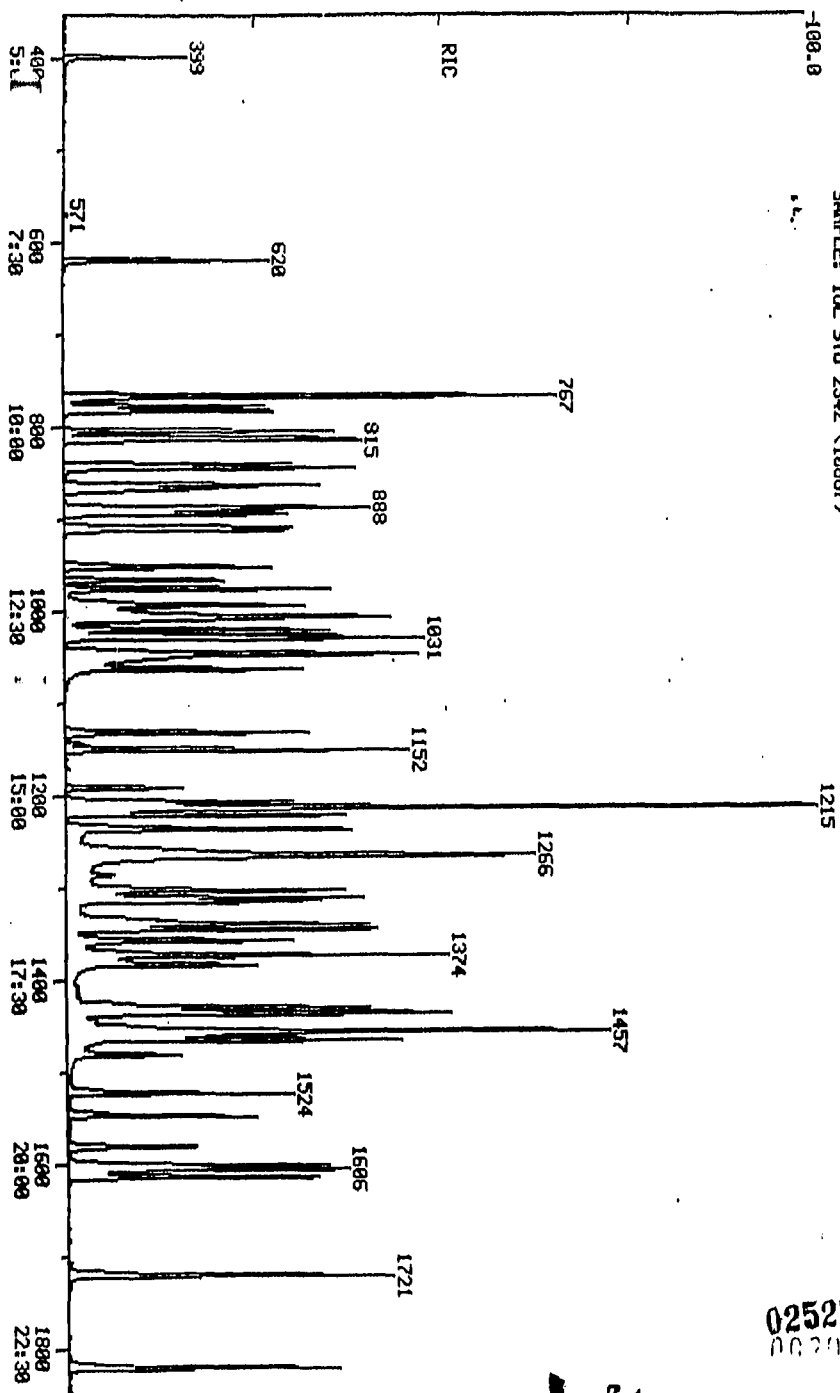
EPA CASE # 2333

MEAD CONSTRUCTION CASE SUMMARY REFERENCE GUIDE

MEAD
DATE 5-9-84

FRAC.	ASSOCIATED TUNE	ASSOCIATED SHIFT STD	EC #	EPA SND #	ANALYSIS DATE/NAME	VOL INST BLK	EXTRACT DATE	ASSO. BLK #	COMMENT
SV	DH840127C15	H6840127C15	19270	R3700					
	DH840201C15	H6840201C15	19265	R3509					
	DH840202C15	H6840202C15	19267	R3511					
	"	"	19268	R3696					
	DH840202C15	H6840202C15	19269	R3698					
	DH840203B14	H6840203B14	19265	R3507					
	DH840203B14	H6840203B14	19265	R3501					
	DH840211H14	H6840211H14	19264	R3503					
	DH840206C15	H6840206C15	19266	R3509					

025250



RIC
01/27/84 5:55:00
SAMPLE: IUL STD 2342 (10867)

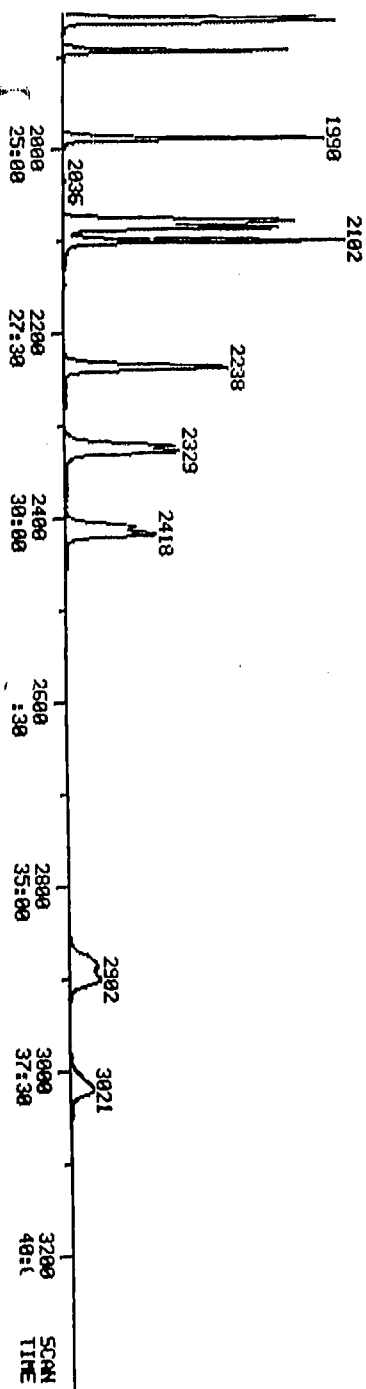
HEAD COMPUTER
COMPUCHEN DATA: H0340127C15 SCANS 350 TO 1850
OUT OF 350 TO 3200

02525
002001

RIC
 01/27/84 6:56:00
 SAMPLE: IUL STD 2342 (10867)

NEED COMPUCHEN
 COMPUCHEN DATA: HC840127C15 SCANS 1850 TO 3200
 OUT OF 350 TO 3200

025252
 002042
 2228352.



PROCEDURE: RK

DIAGNOSTIC REPORT

1/27/84 7:37:37

DATA FILE: HQ840127C15

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	26	34	32	8	84	FSCC7S1/FSCC7U1
6	6	1	26	34	30	8	184	FSCC7S2/FSCC7U2

82 COMPOUNDS PROCESSED, 76 FOUND

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

NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	C1	1	-811	812	812	.	1	994	.	150	812	.	1
2	C2	1	-1026	1027	1027	.	1	987	.	136	1027	.	1
3	C3	1	-1338	1340	1340	.	1	996	.	164	1340	.	1
4	C4	1	-1600	1602	1602	.	1	994	.	188	1602	.	1
5	C5	1	-2080	2083	2083	.	1	998	.	240	2083	.	1
6	C6	1	-2406	2410	2410	.	1	935	.	264	2410	.	1
7	C1	2	-395	396	399	3	1	991	.	74	399	.	1
8	C1	3	-767	768	768	.	1	984	.	94	768	.	1
9	C1	4	-778	779	779	.	1	993	.	93	779	.	1
10	C1	5	-778	779	779	.	1	993	.	93	779	.	1
11	C1	6	-783	784	784	.	1	998	.	128	783	-1	1
12	C1	7	-805	806	806	.	1	991	.	146	805	-1	1
13	C1	8	-813	814	815	1	1	995	.	146	815	.	1
14	C1	9	-840	841	841	.	1	997	.	108	841	.	1
15	C1	10	-844	845	845	.	1	991	.	146	845	.	1
16	C1	11	-863	864	864	.	1	993	.	108	864	.	1
17	C1	12	-867	868	868	.	1	964	.	121	868	.	1
18	C1	13	-887	888	888	.	1	997	.	108	888	.	1
19	C1	14	-890	891	891	.	1	998	.	130	891	.	1
20	C1	15	-894	895	895	.	1	994	.	117	895	.	1
21	C1	16	-911	912	913	1	1	994	.	123	912	-1	1
22	C2	2	-952	953	953	.	1	990	.	82	953	.	1
23	C2	3	-965	966	967	1	1	995	.	139	966	-1	1
24	C2	4	-976	978	977	-1	1	995	.	122	977	.	1
25	C2	5	-993	995	994	-1	1	982	.	93	994	.	1
26	C2	6	-1010	1012	1009	-3	1	994	.	105	1011	2	3
27	C2	7	-1006	1008	1007	-1	1	983	.	162	1007	.	1
28	C2	8	-1020	1022	1021	-1	1	998	.	180	1021	.	1
29	C2	9	-1029	1031	1031	.	1	994	.	128	1031	.	1
30	C2	10	-1044	1046	1047	1	1	996	.	127	1047	.	1
31	C2	11	-1062	1064	1064	.	1	994	.	225	1054	.	1
32	C2	12	-1131	1133	1133	.	1	995	.	107	1133	.	1
33	C2	13	-1151	1153	1152	-1	1	994	.	115	1152	.	1
34	C2	14	-1191	1193	1193	.	1	978	.	237	1192	-1	1
35	C2	15	-1206	1208	1208	.	1	990	.	196	1208	.	1
36	C2	16	-1213	1215	1215	.	1	982	.	196	1214	-1	1
37	C3	2	-1236	1238	1238	.	1	988	.	162	1237	-1	1
38	C3	3	-1265	1267	1266	-1	1	991	.	138	1266	.	1
39	C3	4	-1302	1304	1304	.	1	988	.	163	1304	.	1
40	C3	5	-1310	1312	1312	.	1	997	.	152	1312	.	1
41	C3	6	-1314	1316	1316	.	1	988	.	165	1316	.	1
42	C3	7	-1336	1338	1340	2	1	773	.	138	1337	-3	1
43	C3	8	-1344	1346	1345	-1	1	994	.	154	1345	.	1
44	C3	9	-1356	1358	1358	.	4	986	.	184	1357	-1	1
45	C3	10	-1371	1373	1374	1	2	882	.	109	1373	-1	1
46	C3	11	-1372	1374	1374	.	1	976	.	168	1374	.	1

49	C3	14	-1436	1438	1437	-1	1	939	204	1437	1
50	C3	15	-1433	1435	1436	1	1	970	166	1436	1
51	C3	16	-1461	1463					138	1463	2
52	C3	17	-1454	1456	1457	1	1	993	198	1457	1
53	C3	18	-1459	1461	1461		1	862	169	1461	1
54	C3	19	-1464	1466	1466		1	990	77	1466	1
55	C4	2	-1522	1524	1524		1	988	248	1524	1
56	C4	3	-1546	1548	1548		1	984	284	1548	1
57	C4	4	-1579	1581	1581		1	989	266	1581	1
58	C4	5	-1604	1606	1606		2	993	178	1606	1
59	C4	6	-1612	1614	1614		2	996	178	1614	1
60	C4	7	-1719	1722	1721	-1	1	964	149	1721	1
61	C4	8	-1818	1821	1821		1	997	202	1821	1
62	C5	2	-1859	1862	1861	-1	1	993	202	1861	1
63	C5	3	-1895	1898					184		
64	C5	4	-1988	1992	1990	-2	1	991	149	1990	1
65	C5	5	-2126	2130					252		
66	C5	6	-2077	2081	2080	-1	1	968	228	2080	1
67	C5	7	-2101	2105	2102	-3	1	912	149	2102	1
68	C5	8	-2085	2089	2087	-2	1	991	228	2087	1
69	C5	9	-2237	2242	2238	-4	1	980	149	2238	1
70	C6	2	-2318	2323	2323		1	960	252	2323	1
71	C6	3	-2324	2329	2329		2	960	252	2329	1
72	C6	4	-2413	2418	2418		1	965	252	2418	1
73	C6	5	-2873	2880	2884	4	1	932	276	2884	2
74	C6	6	-2891	2898	2901	3	1	955	278	2902	2
75	C6	7	-3007	3015	3019	4	1	903	276	3019	3
76	C7	2	-619	617	620	3	1	1000	112	620	1
77	C7	3	-765	764					99	766	1
78	C7	4	-908	908	909	1	1	995	82	909	1
79	C7	5	-1221	1222	1222		1	992	172	1222	1
90	C7	6	-1480	1482	1482		1	980	330	1482	1
31	C7	7	-1855	1858					212	1858	1
82	C7	8	-1891	1894	1893	-1	1	993	244	1893	1

025254

000001

QUANTITATION REPORT FILE: HGB40127C15

FILE: HGB40127C15.TI

7/27/84 6:56:00

SAMPLE: 1UL STD 2342 (10867)

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-NITROSODIMETHYLAMINE
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	*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

*met
2342*

025255

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHY)	AMOUNT	%TOT
19	139	966	12:04	17	0.941	A BV	22432.	54.282 NG	0.42
20	122	977	12:13	17	0.951	A BV	35855	51.437 NG	0.40
21	93	994	12:25	17	0.968	A BB	56333.	51.512 NG	0.40
22	105	1011	12:38	17	0.984	A*VV	114231.	694.586 NG	5.39
23	162	1007	12:35	17	0.981	A BB	30742.	51.238 NG	0.40
24	180	1021	12:46	17	0.994	A BB	37148.	50.518 NG	0.39
25	128	1031	12:53	17	1.004	A BB	123044.	49.864 NG	0.39
26	127	1047	13:05	17	1.019	A BV	204646.	5082.399 NG	39.47
27	225	1064	13:18	17	1.036	A BB	18966.	51.302 NG	0.40
28	107	1133	14:10	17	1.103	A BB	48373.	54.263 NG	0.42
29	115	1152	14:24	17	1.122	A BB	40748.	53.500 NG	0.42
30	237	1192	14:54	17	1.161	A BB	11900	58.781 NG	0.46
31	196	1208	15:06	17	1.176	A BV	26044.	65.520 NG	0.51
32	196	1214	15:10	17	1.182	A VV	91244.	234.444 NG	1.82
33	164	1340	16:45	33	1.000	A BB	48815.	40.000 NG	0.31
34	162	1237	15:28	33	0.923	A BB	69010.	48.823 NG	0.38
35	138	1266	15:49	33	0.945	A BV	138337.	427.694 NG	3.32
36	163	1304	16:18	33	0.973	A BB	86293.	52.482 NG	0.41
37	152	1312	16:24	33	0.979	A BB	101445.	100.106 NG	0.78
38	165	1316	16:27	33	0.982	A BB	18245.	53.699 NG	0.42
39	138	1337	16:43	33	0.998	A VV	11087.	1480.840 NG	11.50
40	154	1345	16:49	33	1.004	A BB	66537.	48.102 NG	0.37
41	184	1357	16:58	33	1.013	A BB	22504.	215.788 NG	1.68
42	109	1373	17:10	33	1.025	A BV	30272.	182.808 NG	1.42
43	168	1374	17:10	33	1.025	A BB	101366.	49.354 NG	0.38
44	165	1384	17:18	33	1.033	A BB	27919.	54.710 NG	0.42
45	149	1430	17:52	33	1.067	A BV	108635.	53.925 NG	0.42
46	204	1437	17:58	33	1.072	A BB	28902.	47.994 NG	0.37
47	166	1436	17:57	33	1.072	A BB	77087.	50.105 NG	0.39
48	138	1463	18:17	33	1.092	A*VV	17593.	461.626 NG	3.59
49	198	1457	18:13	33	1.087	A BB	47929.	250.892 NG	1.95
50	169	1461	18:16	33	1.090	A VB	27180.	62.356 NG	0.48
51	77	1466	18:19	33	1.094	A VV	105279.	42.908 NG	0.33
52	188	1602	20:01	52	1.000	A BV	83911.	40.000 NG	0.31
53	248	1524	19:03	52	0.951	A BB	18302.	51.021 NG	0.40
54	284	1548	19:21	52	0.966	A BB	22102.	50.610 NG	0.39
55	266	1581	19:46	52	0.987	A BB	13849.	74.661 NG	0.58
56	178	1606	20:04	52	1.002	A VV	103152.	45.016 NG	0.35
57	178	1614	20:10	52	1.007	A VB	97182.	46.675 NG	0.36
58	149	1721	21:31	52	1.074	A VV	175774.	51.698 NG	0.40
59	202	1821	22:46	52	1.137	A VV	116780.	52.826 NG	0.41
60	240	2083	26:02	60	1.000	A BV	56190.	40.000 NG	0.31
61	202	1861	23:16	60	0.893	A VV	110914.	47.341 NG	0.37
62	NOT FOUND								
63	149	1990	24:52	60	0.955	A BV	68179.	52.474 NG	0.41
64	NOT FOUND								
65	228	2080	26:00	60	0.999	A VV	96616.	55.152 NG	0.43
66	149	2102	26:16	60	1.009	A VV	94366.	49.790 NG	0.39
67	228	2087	26:05	60	1.002	A VV	82641.	50.927 NG	0.40
68	149	2238	27:58	60	1.074	A BV	171023.	51.688 NG	0.40
69	264	2410	30:07	69	1.000	A BV	60996.	40.000 NG	0.31
70	252	2323	29:02	69	0.964	A BV	96214.	49.570 NG	0.38
71	252	2329	29:07	69	0.966	A VV	68676.	47.636 NG	0.37
2	252	2418	30:13	69	1.003	A VV	81244.	53.185 NG	0.41
73	276	2884	36:03	69	1.197	A*VV	64308.	61.225 NG	0.48
74	278	2902	36:16	69	1.204	A*VB	59454.	75.523 NG	0.59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	276	3019	37:44	69	1.253	A*VV	62219.	78.334 NG	0.61
76	112	620	7:45	1	0.764	A BV	42544.	54.865 NG	0.43
77	99	766	9:34	17	0.746	A BB	46626.	49.846 NG	0.39
78	82	909	11:22	17	0.885	A BV	56515.	53.101 NG	0.41
79	172	1222	15:16	17	1.190	A BB	74516.	50.793 NG	0.39
80	330	1482	18:31	33	1.106	A BB	8360.	57.326 NG	0.45
81	212	1858	23:13	60	0.892	A BB	102097.	49.051 NG	0.38
82	244	1893	23:40	52	1.182	A BV	73340.	51.454 NG	0.40

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:56	1.01	0.487	1.01	49.40	50.00	0.583	0.590	0.99
3	9:35	1.00	0.946	1.00	52.49	50.00	1.150	1.096	1.05
4	9:43	1.00	0.959	1.00	96.29	100.00	0.477	0.496	0.96
5	9:43	1.00	0.959	1.00	96.29	100.00	0.477	0.496	0.96
6	9:47	1.00	0.965	1.00	52.58	50.00	0.785	0.747	1.05
7	10:04	1.00	0.993	1.00	50.50	50.00	0.842	0.834	1.01
8	10:10	1.00	1.002	1.00	51.37	50.00	0.898	0.874	1.03
9	10:30	1.00	1.036	1.00	65.78	50.00	0.476	0.362	1.32
10	10:33	1.00	1.041	1.00	51.49	50.00	0.821	0.798	1.03
11	10:47	1.00	1.064	1.00	50.57	50.00	0.688	0.680	1.01
12	10:50	1.00	1.069	1.00	51.45	50.00	0.268	0.260	1.03
13	11:05	1.00	1.094	1.00	52.26	50.00	0.770	0.736	1.05
14	11:07	1.00	1.097	1.00	55.83	50.00	0.150	0.134	1.12
15	11:10	1.00	1.102	1.00	54.30	50.00	0.427	0.393	1.09
16	11:23	1.00	1.123	1.00	52.86	50.00	0.396	0.374	1.06
17	12:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:54	1.00	0.928	1.00	53.27	50.00	0.836	0.784	1.07
19	12:04	1.00	0.941	1.00	54.28	50.00	0.197	0.181	1.09
20	12:12	1.00	0.951	1.00	51.44	50.00	0.314	0.306	1.03
21	12:25	1.00	0.968	1.00	51.51	50.00	0.494	0.479	1.03
22	12:37	1.00	0.984	1.00	694.59	250.00	0.200	0.072	2.78
23	12:34	1.00	0.981	1.00	51.24	50.00	0.270	0.263	1.02
24	12:45	1.00	0.994	1.00	50.52	50.00	0.326	0.322	1.01
25	12:52	1.00	1.003	1.00	49.86	50.00	1.079	1.082	1.00
26	13:03	1.00	1.018	1.00	5082.39	250.00	0.359	0.018	20.33
27	13:16	1.00	1.035	1.00	51.30	50.00	0.166	0.162	1.03
28	14:08	1.00	1.102	1.00	54.26	50.00	0.424	0.391	1.09
29	14:23	1.00	1.122	1.00	53.50	50.00	0.357	0.334	1.07
30	14:53	1.00	1.161	1.00	58.78	50.00	0.104	0.089	1.18
31	15:04	1.00	1.175	1.00	65.52	50.00	0.228	0.174	1.31
32	15:10	1.00	1.182	1.00	234.44	250.00	0.160	0.171	0.94
33	16:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	15:27	1.00	0.924	1.00	48.82	50.00	1.131	1.158	0.98
35	15:49	1.00	0.945	1.00	427.69	250.00	0.433	0.265	1.71
36	16:16	1.00	0.973	1.00	52.48	50.00	1.414	1.347	1.05
37	16:22	1.00	0.979	1.00	100.11	50.00	1.663	0.830	2.00
38	16:25	1.00	0.982	1.00	53.70	50.00	0.299	0.278	1.07
39	16:42	1.00	0.999	1.00	1480.84	250.00	0.036	0.006	5.92
40	16:48	1.00	1.004	1.00	48.10	50.00	1.090	1.133	0.96
41	16:57	1.00	1.013	1.00	215.79	250.00	0.074	0.086	0.86
42	17:08	1.00	1.025	1.00	182.81	125.00	0.198	0.136	1.46
43	17:09	1.00	1.025	1.00	49.35	50.00	1.661	1.683	0.99
44	17:16	1.00	1.033	1.00	54.71	50.00	0.458	0.418	1.09
45	17:51	1.00	1.067	1.00	53.93	50.00	1.780	1.651	1.08
46	17:57	1.00	1.073	1.00	47.99	50.00	0.474	0.493	0.96

025258.13

NO	RET(L)	RATIO	RRT(L)	RATID	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:55	1.00	1.071	1.00	50.11	50.00	1.263	1.261	1.00
48	18:16	1.00	1.092	1.00	461.63	250.00	0.058	0.031	1.85
49	18:10	1.00	1.087	1.00	250.89	250.00	0.157	0.157	1.00
50	18:14	1.00	1.090	1.00	62.36	50.00	0.445	0.357	1.25
51	18:18	1.00	1.094	1.00	42.91	50.00	1.725	2.011	0.86
52	20:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	19:01	1.00	0.951	1.00	51.02	50.00	0.174	0.171	1.02
54	19:19	1.00	0.966	1.00	50.61	50.00	0.211	0.208	1.01
55	19:44	1.00	0.987	1.00	74.66	50.00	0.132	0.088	1.49
56	20:03	1.00	1.002	1.00	45.02	50.00	0.983	1.092	0.90
57	20:09	1.00	1.007	1.00	46.68	50.00	0.927	0.993	0.93
58	21:29	1.00	1.074	1.00	51.70	50.00	1.676	1.621	1.03
59	22:43	1.00	1.136	1.00	52.83	50.00	1.113	1.054	1.06
60	26:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	23:14	1.00	0.894	1.00	47.34	50.00	1.579	1.668	0.95
62	23:41		0.893			50.00		0.010	
63	24:51	1.00	0.956	1.00	52.47	50.00	0.971	0.925	1.05
64	26:34		1.001			50.00		0.035	
65	25:58	1.00	0.999	1.00	55.15	50.00	1.376	1.247	1.10
66	26:16	1.00	1.010	1.00	49.79	50.00	1.344	1.349	1.00
67	26:04	1.00	1.002	1.00	50.93	50.00	1.177	1.155	1.02
68	27:58	1.00	1.075	1.00	51.69	50.00	2.435	2.355	1.03
69	30:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	28:58	1.00	0.963	1.00	49.57	50.00	1.262	1.273	0.99
71	29:03	1.00	0.966	1.00	47.64	50.00	0.901	0.945	0.95
72	30:10	1.00	1.003	1.00	53.19	50.00	1.066	1.002	1.06
73	35:55	1.00	1.194	1.00	61.22	50.00	0.843	0.689	1.22
74	36:08	1.00	1.202	1.00	75.52	50.00	0.780	0.516	1.51
75	37:35	1.00	1.250	1.00	78.33	50.00	0.816	0.521	1.57
76	7:44	1.00	0.763	1.00	54.86	50.00	0.746	0.680	1.10
77	9:34	1.00	0.746	1.00	49.85	50.00	0.409	0.410	1.00
78	11:21	1.00	0.885	1.00	53.10	50.00	0.496	0.467	1.06
79	15:16	1.00	1.190	1.00	50.79	50.00	0.653	0.643	1.02
80	18:30	1.00	1.106	1.00	57.33	50.00	0.137	0.119	1.15
81	23:11	1.00	0.892	1.00	49.05	50.00	1.454	1.482	0.98
82	23:38	1.00	1.182	1.00	51.45	50.00	0.699	0.679	1.03

0029.15

025259

QUANTITATION REPORT FILE: HQ840127C15

DATA: HQ840127C15.T1

01/27/84 6:56:00

SAMPLE: 1UL STD 2342 (10867)

SUBMITTED BY: 15

ANALYST: 754

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-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-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

000000

025260

NO NAME
 432 FLUORENE
 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
 437 INDENO(1,2,3-C,D)PYRENE
 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(HQHT)	AMOUNT	%TOT
1	150	812	10:09	1	1.000	A VB	45629.	40.000 NG	0.71
2	74	399	4:59	1	0.491	A BB	33232.	50.000 NG	0.89
3	94	768	9:36	1	0.946	A BV	65614.	50.000 NG	0.89
4	93	767	9:35	1	0.945	A BV	60248.	50.000 NG	0.89
5	93	779	9:44	1	0.959	A VV	54463.	50.000 NG	0.89
6	128	783	9:47	1	0.964	A BB	44777.	50.000 NG	0.89
7	146	805	10:04	1	0.991	A BB	48042.	50.000 NG	0.89
8	146	815	10:11	1	1.004	A BB	51228.	50.000 NG	0.89
9	108	841	10:31	1	1.036	A BV	27143.	50.000 NG	0.89
10	146	845	10:34	1	1.041	A BB	46840.	50.000 NG	0.89
11	108	864	10:48	1	1.064	A BV	39238.	50.000 NG	0.89
12	121	868	10:51	1	1.069	A BB	15283.	50.000 NG	0.89
13	108	888	11:06	1	1.094	A BB	43902.	50.000 NG	0.89
14	130	891	11:08	1	1.097	A BB	8557.	50.000 NG	0.89
	117	895	11:11	1	1.102	A BB	24357.	50.000 NG	0.89
	123	912	11:24	1	1.123	A BB	22575.	50.000 NG	0.89
17	136	1027	12:50	17	1.000	A BB	91229.	40.000 NG	0.71
18	82	953	11:55	17	0.928	A BB	95291.	50.000 NG	0.89

025261

000001

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
9	139	966	12:04	17	0.941	A BV	22432.	50.000 NG	0.89
10	122	977	12:13	17	0.951	A BV	35855.	50.000 NG	0.89
21	93	994	12:25	17	0.968	A BB	56333.	50.000 NG	0.89
22	105	1011	12:38	17	0.984	A*VV	114231.	249.999 NG	4.45
23	162	1007	12:35	17	0.981	A BB	30742.	50.000 NG	0.89
24	180	1021	12:46	17	0.994	A BB	37148.	50.000 NG	0.89
25	128	1031	12:53	17	1.004	A BB	123044.	50.000 NG	0.89
26	127	1047	13:05	17	1.019	A BV	204646.	249.999 NG	4.45
27	225	1064	13:18	17	1.036	A BB	18966.	50.000 NG	0.89
28	107	1133	14:10	17	1.103	A BB	48373.	50.000 NG	0.89
29	115	1152	14:24	17	1.122	A BB	40748.	50.000 NG	0.89
30	237	1192	14:54	17	1.161	A BB	11900.	50.000 NG	0.89
31	196	1208	15:06	17	1.176	A BV	26044.	50.000 NG	0.89
32	196	1214	15:10	17	1.182	A VV	91244.	249.999 NG	4.45
33	164	1340	16:45	33	1.000	A BB	48815.	40.000 NG	0.71
34	162	1237	15:28	33	0.923	A BB	69010.	50.000 NG	0.89
35	138	1266	15:49	33	0.945	A BV	138357.	249.999 NG	4.45
36	163	1304	16:18	33	0.973	A BB	86293.	50.000 NG	0.89
37	152	1312	16:24	33	0.979	A BB	101445.	50.000 NG	0.89
38	165	1316	16:27	33	0.982	A BB	18245.	50.000 NG	0.89
39	138	1337	16:43	33	0.998	A VV	11087.	249.999 NG	4.45
40	154	1345	16:49	33	1.004	A BB	66537.	50.000 NG	0.89
41	184	1357	16:58	33	1.013	A BB	22604.	249.999 NG	4.45
42	109	1373	17:10	33	1.025	A BV	30272.	125.000 NG	2.23
43	168	1374	17:10	33	1.025	A BB	101366.	50.000 NG	0.89
44	165	1384	17:18	33	1.033	A BB	27919.	50.000 NG	0.89
45	149	1430	17:52	33	1.067	A BV	108635.	50.000 NG	0.89
46	204	1437	17:58	33	1.072	A BB	28902.	50.000 NG	0.89
47	166	1436	17:57	33	1.072	A BB	77087.	50.000 NG	0.89
48	138	1463	18:17	33	1.092	A*VV	17593.	249.999 NG	4.45
49	198	1457	18:13	33	1.087	A BB	47929.	249.999 NG	4.45
50	169	1461	18:16	33	1.090	A VB	27180.	50.000 NG	0.89
51	77	1466	18:19	33	1.094	A VV	105279.	50.000 NG	0.89
52	188	1602	20:01	52	1.000	A BV	83911.	40.000 NG	0.71
53	248	1524	19:03	52	0.951	A BB	18302.	50.000 NG	0.89
54	284	1548	19:21	52	0.966	A BB	22102.	50.000 NG	0.89
55	266	1581	19:46	52	0.987	A BB	13849.	50.000 NG	0.89
56	178	1606	20:04	52	1.002	A VV	103152.	50.000 NG	0.89
57	178	1614	20:10	52	1.007	A VB	97182.	50.000 NG	0.89
58	149	1721	21:31	52	1.074	A VV	175774.	50.000 NG	0.89
59	202	1821	22:46	52	1.137	A VV	116780.	50.000 NG	0.89
60	240	2083	26:02	60	1.000	A BV	56190.	40.000 NG	0.71
61	202	1861	23:16	60	0.893	A VV	110914.	50.000 NG	0.89
62	NOT FOUND								
63	149	1990	24:52	60	0.955	A BV	68179.	50.000 NG	0.89
64	NOT FOUND								
65	228	2080	26:00	60	0.999	A VV	96616.	50.000 NG	0.89
66	149	2102	26:16	60	1.009	A VV	94366.	50.000 NG	0.89
67	228	2087	26:05	60	1.002	A VV	82641.	50.000 NG	0.89
68	149	2238	27:58	60	1.074	A BV	171023.	50.000 NG	0.89
69	264	2410	30:07	69	1.000	A BV	60996.	40.000 NG	0.71
70	252	2323	29:02	69	0.964	A BV	96214.	50.000 NG	0.89
1	252	2329	29:07	69	0.966	A VV	68676.	50.000 NG	0.89
2	252	2418	30:13	69	1.003	A VV	81244.	50.000 NG	0.89
73	276	2884	36:03	69	1.197	A*VV	64308.	50.000 NG	0.89
74	278	2902	36:16	69	1.204	A*VB	59454.	50.000 NG	0.89

025262

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
75	276	3019	37:44	69	1.253	A*VV	62219.	50.000 NG	0.89
76	112	620	7:45	1	0.764	A BV	42344.	50.000 NG	0.89
77	99	766	9:34	17	0.746	A BB	46626.	50.000 NG	0.89
78	82	909	11:22	17	0.885	A BV	56515.	50.000 NG	0.89
79	172	1222	15:16	17	1.190	A BB	74516.	50.000 NG	0.89
80	330	1482	18:31	33	1.106	A BB	8360.	50.000 NG	0.89
81	212	1858	23:13	60	0.892	A BB	102099.	50.000 NG	0.89
82	244	1893	23:40	52	1.182	A BV	73340.	50.000 NG	0.89

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:59	1.00	0.491	1.00	50.00	50.00	0.583	0.583	1.00
3	9:36	1.00	0.946	1.00	50.00	50.00	1.150	1.150	1.00
4	9:35	1.00	0.945	1.00	50.00	50.00	1.056	1.056	1.00
5	9:44	1.00	0.959	1.00	50.00	50.00	0.955	0.955	1.00
6	9:47	1.00	0.964	1.00	50.00	50.00	0.785	0.785	1.00
7	10:04	1.00	0.991	1.00	50.00	50.00	0.842	0.842	1.00
8	10:11	1.00	1.004	1.00	50.00	50.00	0.898	0.898	1.00
9	10:31	1.00	1.036	1.00	50.00	50.00	0.476	0.476	1.00
10	10:34	1.00	1.041	1.00	50.00	50.00	0.821	0.821	1.00
11	10:48	1.00	1.064	1.00	50.00	50.00	0.688	0.688	1.00
12	10:51	1.00	1.069	1.00	50.00	50.00	0.268	0.268	1.00
13	11:06	1.00	1.094	1.00	50.00	50.00	0.770	0.770	1.00
14	11:08	1.00	1.097	1.00	50.00	50.00	0.150	0.150	1.00
15	11:11	1.00	1.102	1.00	50.00	50.00	0.427	0.427	1.00
16	11:24	1.00	1.123	1.00	50.00	50.00	0.396	0.396	1.00
7	12:30	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:55	1.00	0.928	1.00	50.00	50.00	0.836	0.836	1.00
19	12:04	1.00	0.941	1.00	50.00	50.00	0.197	0.197	1.00
20	12:13	1.00	0.951	1.00	50.00	50.00	0.314	0.314	1.00
21	12:25	1.00	0.968	1.00	50.00	50.00	0.494	0.494	1.00
22	12:38	1.00	0.984	1.00	250.00	250.00	0.200	0.200	1.00
23	12:35	1.00	0.981	1.00	50.00	50.00	0.270	0.270	1.00
24	12:46	1.00	0.994	1.00	50.00	50.00	0.326	0.326	1.00
25	12:53	1.00	1.004	1.00	50.00	50.00	1.079	1.079	1.00
26	13:05	1.00	1.019	1.00	250.00	250.00	0.359	0.359	1.00
27	13:18	1.00	1.036	1.00	50.00	50.00	0.166	0.166	1.00
28	14:10	1.00	1.103	1.00	50.00	50.00	0.424	0.424	1.00
29	14:24	1.00	1.122	1.00	50.00	50.00	0.357	0.357	1.00
30	14:54	1.00	1.161	1.00	50.00	50.00	0.104	0.104	1.00
31	15:06	1.00	1.176	1.00	50.00	50.00	0.228	0.228	1.00
32	15:10	1.00	1.182	1.00	250.00	250.00	0.160	0.160	1.00
33	16:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	15:28	1.00	0.923	1.00	50.00	50.00	1.131	1.131	1.00
35	15:49	1.00	0.945	1.00	250.00	250.00	0.453	0.453	1.00
36	16:18	1.00	0.973	1.00	50.00	50.00	1.414	1.414	1.00
37	16:24	1.00	0.979	1.00	50.00	50.00	1.663	1.663	1.00
38	16:27	1.00	0.982	1.00	50.00	50.00	0.299	0.299	1.00
39	16:43	1.00	0.998	1.00	250.00	250.00	0.036	0.036	1.00
40	16:49	1.00	1.004	1.00	50.00	50.00	1.090	1.090	1.00
41	16:58	1.00	1.013	1.00	250.00	250.00	0.074	0.074	1.00
42	17:10	1.00	1.025	1.00	125.00	125.00	0.198	0.198	1.00
7	17:10	1.00	1.025	1.00	50.00	50.00	1.661	1.661	1.00
4	17:18	1.00	1.033	1.00	50.00	50.00	0.458	0.458	1.00
45	17:52	1.00	1.067	1.00	50.00	50.00	1.780	1.780	1.00
46	17:58	1.00	1.072	1.00	50.00	50.00	0.474	0.474	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:57	1.00	1.072	1.00	50.00	50.00	1.263	1.263	1.00
48	18:17	1.00	1.092	1.00	250.00	250.00	0.058	0.058	1.00
49	18:13	1.00	1.087	1.00	250.00	250.00	0.157	0.157	1.00
50	18:16	1.00	1.090	1.00	50.00	50.00	0.445	0.445	1.00
51	18:19	1.00	1.094	1.00	50.00	50.00	1.725	1.725	1.00
52	20:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	19:03	1.00	0.951	1.00	50.00	50.00	0.174	0.174	1.00
54	19:21	1.00	0.966	1.00	50.00	50.00	0.211	0.211	1.00
55	19:46	1.00	0.987	1.00	50.00	50.00	0.132	0.132	1.00
56	20:04	1.00	1.002	1.00	50.00	50.00	0.983	0.983	1.00
57	20:10	1.00	1.007	1.00	50.00	50.00	0.927	0.927	1.00
58	21:31	1.00	1.074	1.00	50.00	50.00	1.676	1.676	1.00
59	22:46	1.00	1.137	1.00	50.00	50.00	1.113	1.113	1.00
60	26:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	23:16	1.00	0.893	1.00	50.00	50.00	1.579	1.579	1.00
62	23:41		0.893			50.00		0.010	
63	24:52	1.00	0.955	1.00	50.00	50.00	0.971	0.971	1.00
64	26:34		1.001			50.00		0.035	
65	26:00	1.00	0.999	1.00	50.00	50.00	1.376	1.376	1.00
66	26:16	1.00	1.009	1.00	50.00	50.00	1.344	1.344	1.00
67	26:05	1.00	1.002	1.00	50.00	50.00	1.177	1.177	1.00
68	27:58	1.00	1.074	1.00	50.00	50.00	2.435	2.435	1.00
69	30:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	29:02	1.00	0.964	1.00	50.00	50.00	1.262	1.262	1.00
71	29:07	1.00	0.966	1.00	50.00	50.00	0.901	0.901	1.00
72	30:13	1.00	1.003	1.00	50.00	50.00	1.066	1.066	1.00
73	36:03	1.00	1.197	1.00	50.00	50.00	0.843	0.843	1.00
74	36:16	1.00	1.204	1.00	50.00	50.00	0.780	0.780	1.00
75	37:44	1.00	1.253	1.00	50.00	50.00	0.816	0.816	1.00
76	7:45	1.00	0.764	1.00	50.00	50.00	0.746	0.746	1.00
77	9:34	1.00	0.746	1.00	50.00	50.00	0.409	0.409	1.00
78	11:22	1.00	0.885	1.00	50.00	50.00	0.496	0.496	1.00
79	15:16	1.00	1.190	1.00	50.00	50.00	0.653	0.653	1.00
80	18:31	1.00	1.106	1.00	50.00	50.00	0.137	0.137	1.00
81	23:13	1.00	0.892	1.00	50.00	50.00	1.454	1.454	1.00
82	23:40	1.00	1.182	1.00	50.00	50.00	0.699	0.699	1.00

MASS CHROMATOGRAM
 01/27/84 6:56:00
 SAMPLE: 1UL STD 2342 (10667)
 619 2-FLUOROPHENOL (SURROGATE)

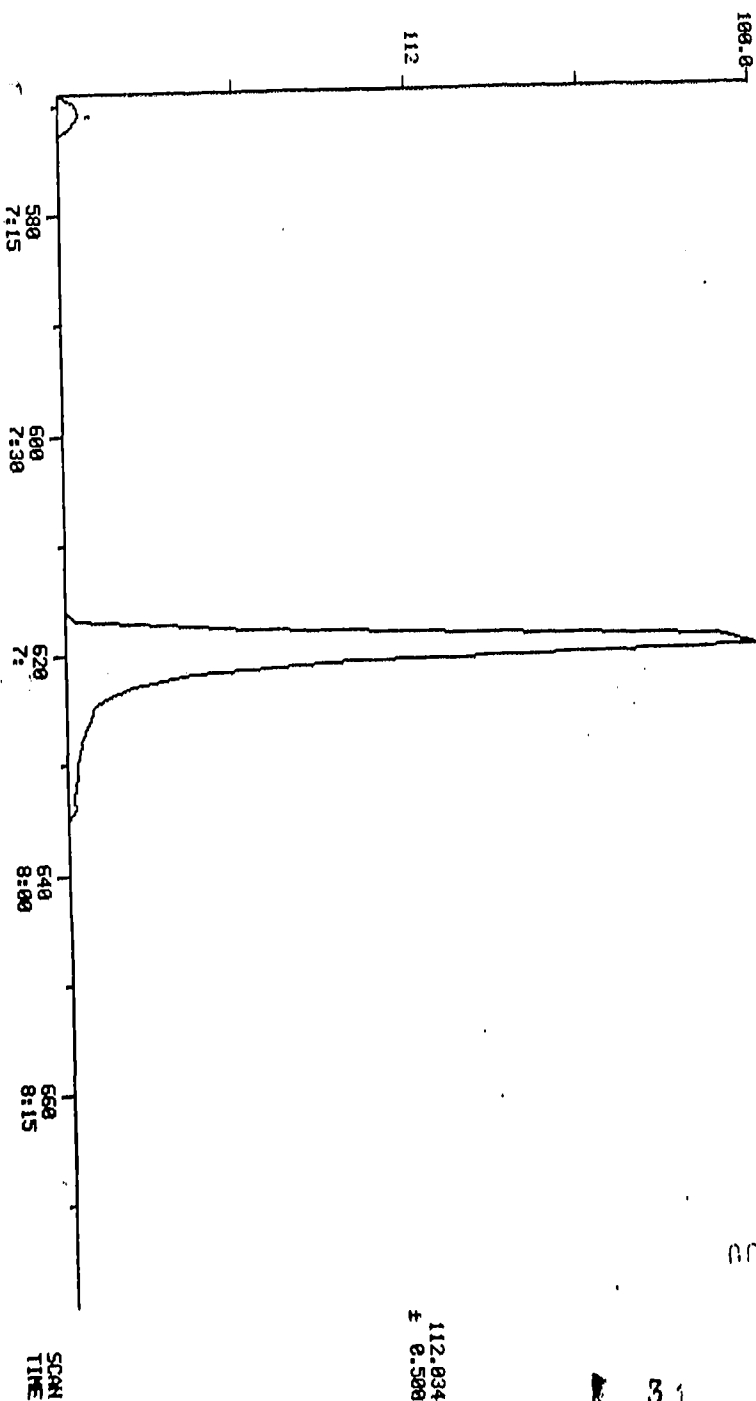
HEAD COMPUCHEN
 COMPUCHEN DATA: HGS40127C15 SCANS 569 TO 679

000005

025265
 13456.

31

112.834
 ± 0.500

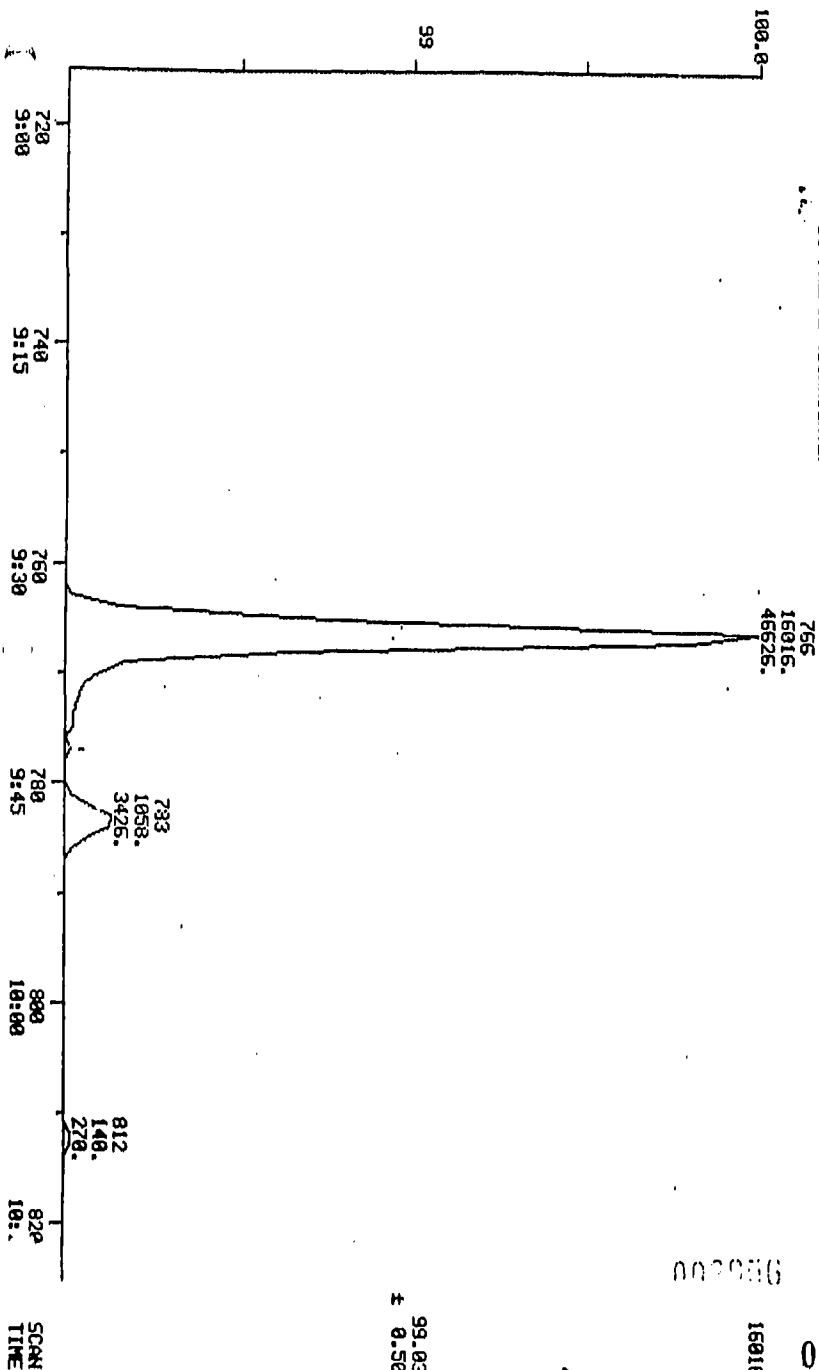


MASS CHROMATOGRAM
 01/27/84 6:55:00
 SAMPLE: IUL STD 2342 (10867)
 DS-PHENOL (SURROGATE)

HEAD COMPUCHEN

COMPUCHEN DATA: HG840127C15 SCANS 715 TO 825

025266



000000

15916.

31

2.1

99.030
 ± 0.500

SCAN
 TIME

MASS CHROMATOGRAM
 01/27/84 5:56:00
 SAMPLE: IOL STD 2342 (10867)
 448 2-FLUOROBIPHENYL (SURROGATE)

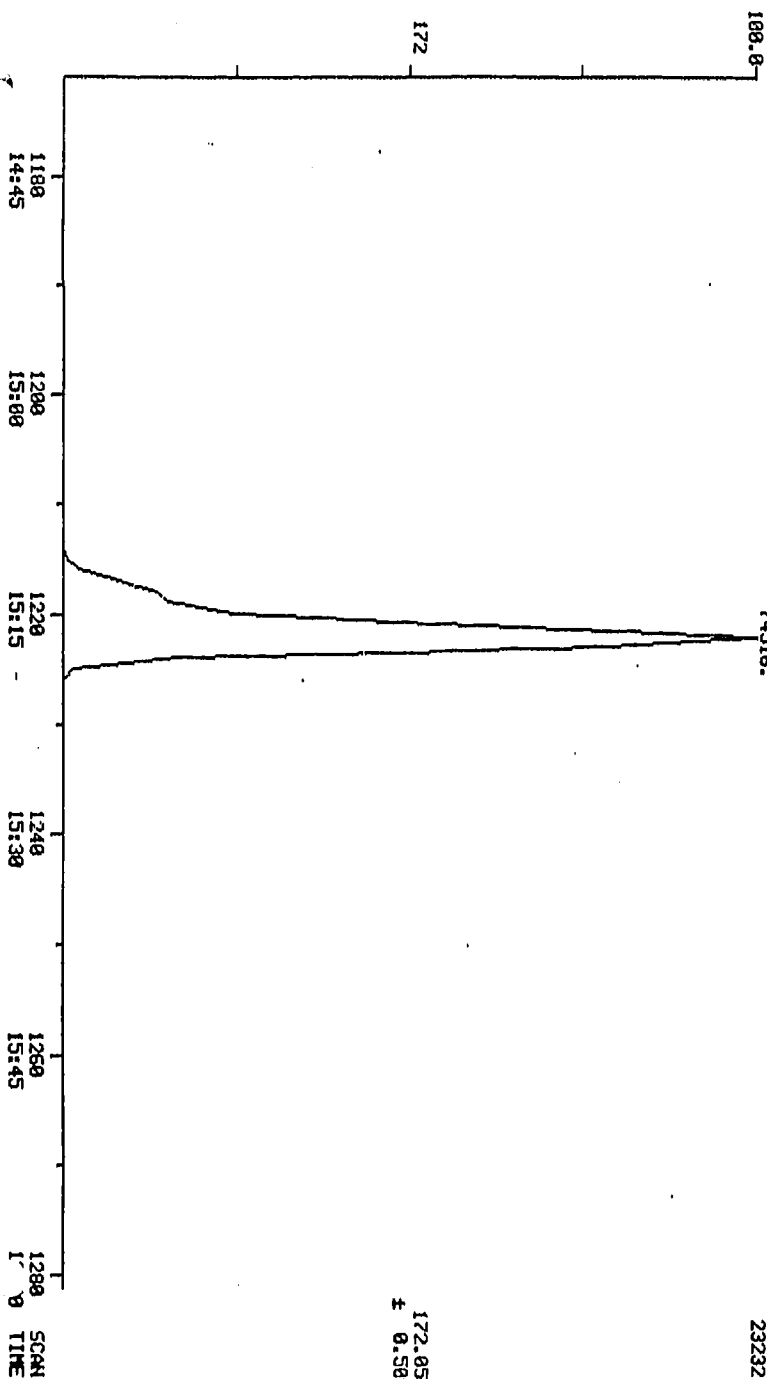
MEAD COMPUCHEN

COMPUCHEN DATA: HC840127C15 SCANS 1171 TO 1281

1222
 23232.
 74516.

025268
 1000
 23232.

172.051
 ± 0.508

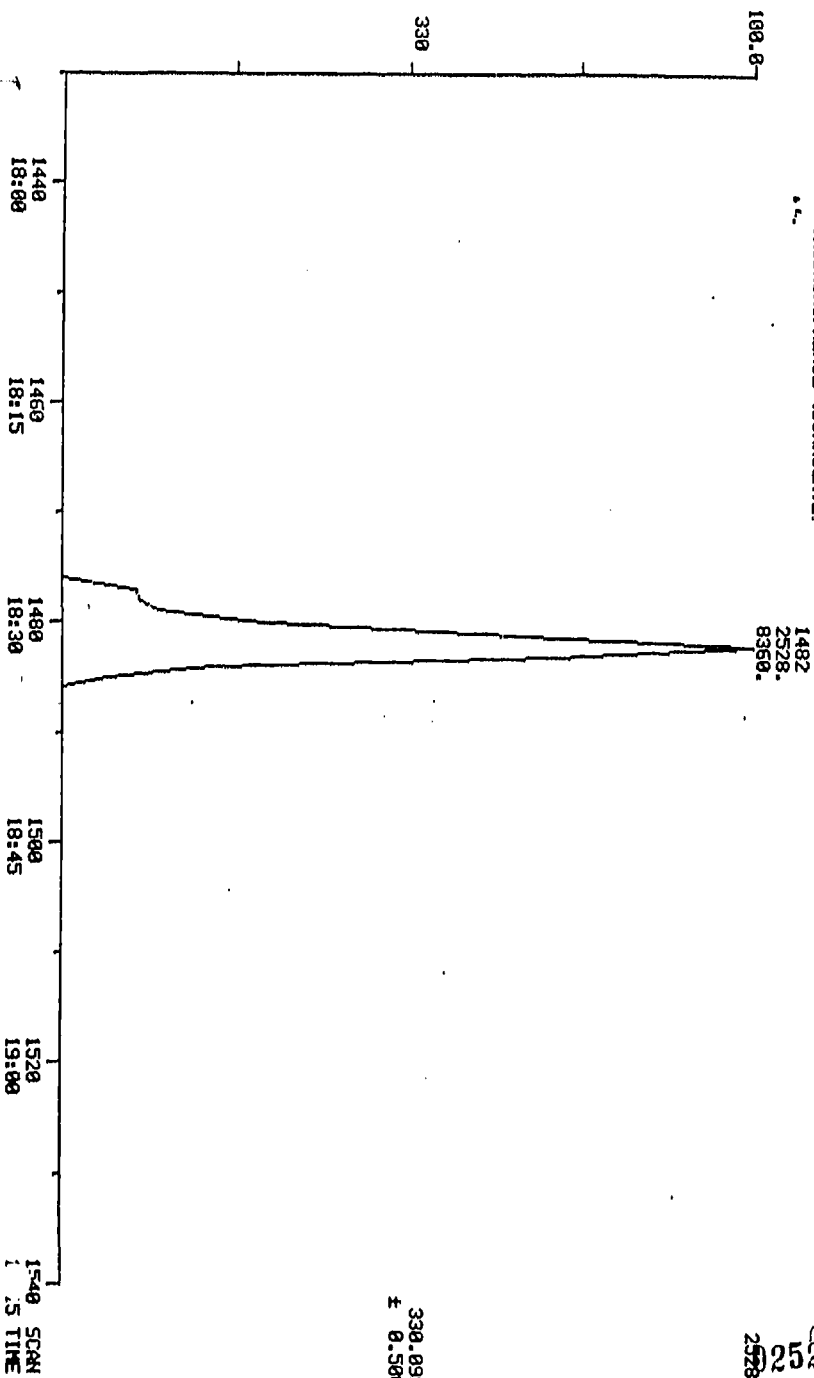


MASS CHROMATOGRAM
 01/27/84 6:56:00
 SAMPLE: IUL STD 2342 (18867)
 TRIBROMOPHENOL (SURROGATE)

HEAD COMPUCHEN

COMPUCHEN DATA: HGB40127C15 SCANS 1430 TO 1540

25269
 25268



MASS CHROMATOGRAM
01/27/84 6:36:08
SAMPLE: 1UL STD 2342 (18867)
DIB-PYRENE (SURROGATE)

HEAD COMPUCHEN

COMPUCHEN DATA: HG840127C15 SCANS 1865 TO 1915

025270

180.0

212

1858
24575.
102893.

24576.

000050

31

212.863
± 0.500



SCAN
TIME

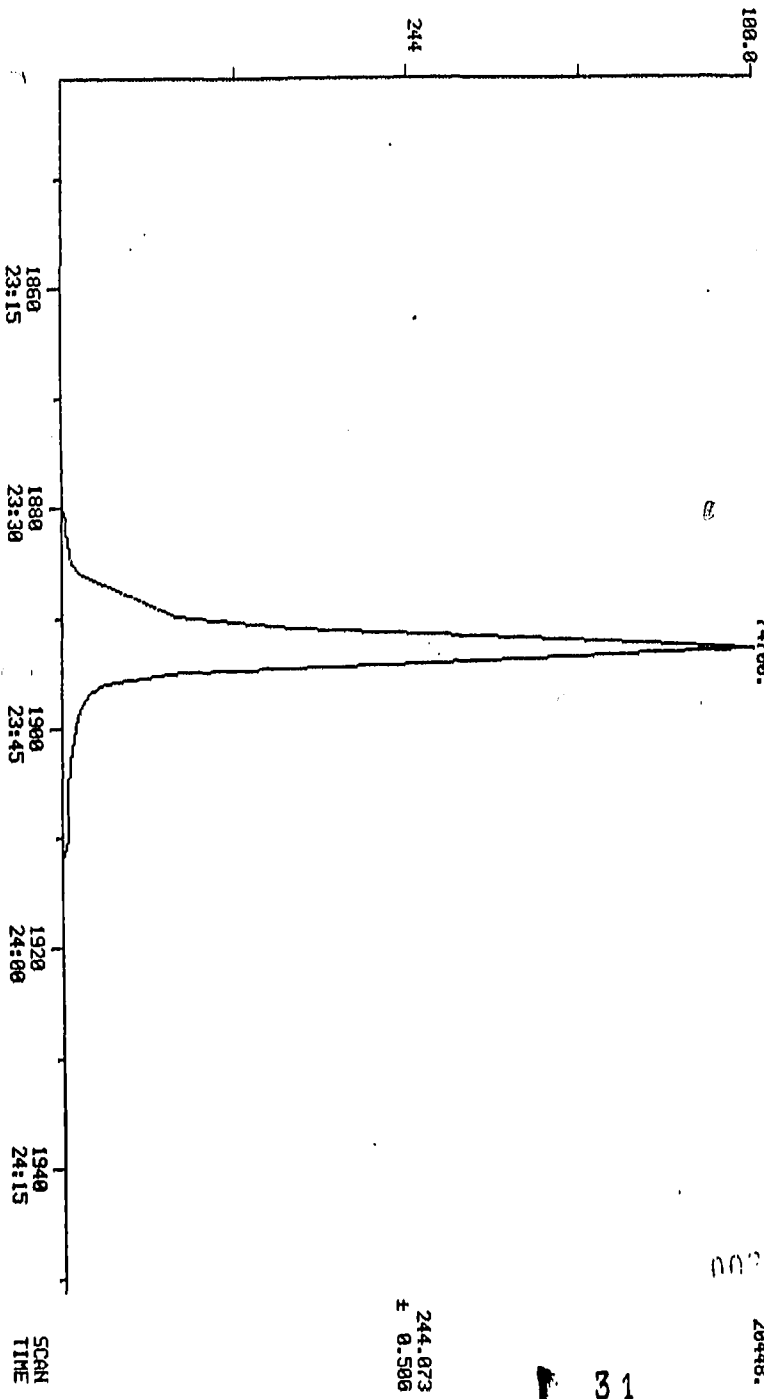
MASS CHROMATOGRAM
 01/27/84 6:56:00
 SAMPLE 11L STD 2342 (18857)
 D14-TERPHENYL (SURROGATE)

HEAD CONFUCHEN
 CONFUCHEN DATA: HG840127C15 SCANS 1841 TO 1951

1893.
 20448.
 74700.

025271
 20448.

244.073
 ± 0.506



233

**Mead ComputChem
GC/MS Analysis Log**

Print: Stand, Multiple Copies

Initial Time of Run 6:11 Status (A) ☒ (B) ☒ (C) ☒
 Time Time Expires 14:10 Date 11/27/84
 Analyte Type ESTC-2

Run Log	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc No.	COMMENTS
1	DH840127C15			1.6L	754		154	10511 (488-26,000)
2	DH840127C15			1.6L	754		154	10911 (40-3565)
3	DH840127C15			1.6L	754		154	10911
4	H6840127C15			1.6L	754		154	512 2342 (10867)
5	GH018908.915			1.9.8	657		154	10910 #033
6	GSD18355A15			1.9.8	657		154	10910 #033
7	GH018913H15			1.9.8	657		154	10910 #033
8	GH018914H15			1.9.8	657		154	10910 #033
9	GH018920H15			1.9.1	657		154	10910 #033
10	GH018920H15			1.9.1	657		154	10910 #033
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

01/27/84 AD

025272

FSC "CHECK STANDARD" TOLERANCE

POSTED

01/09/84

STANDARD FILE NAME HN840122C15

DATE 1/27/84

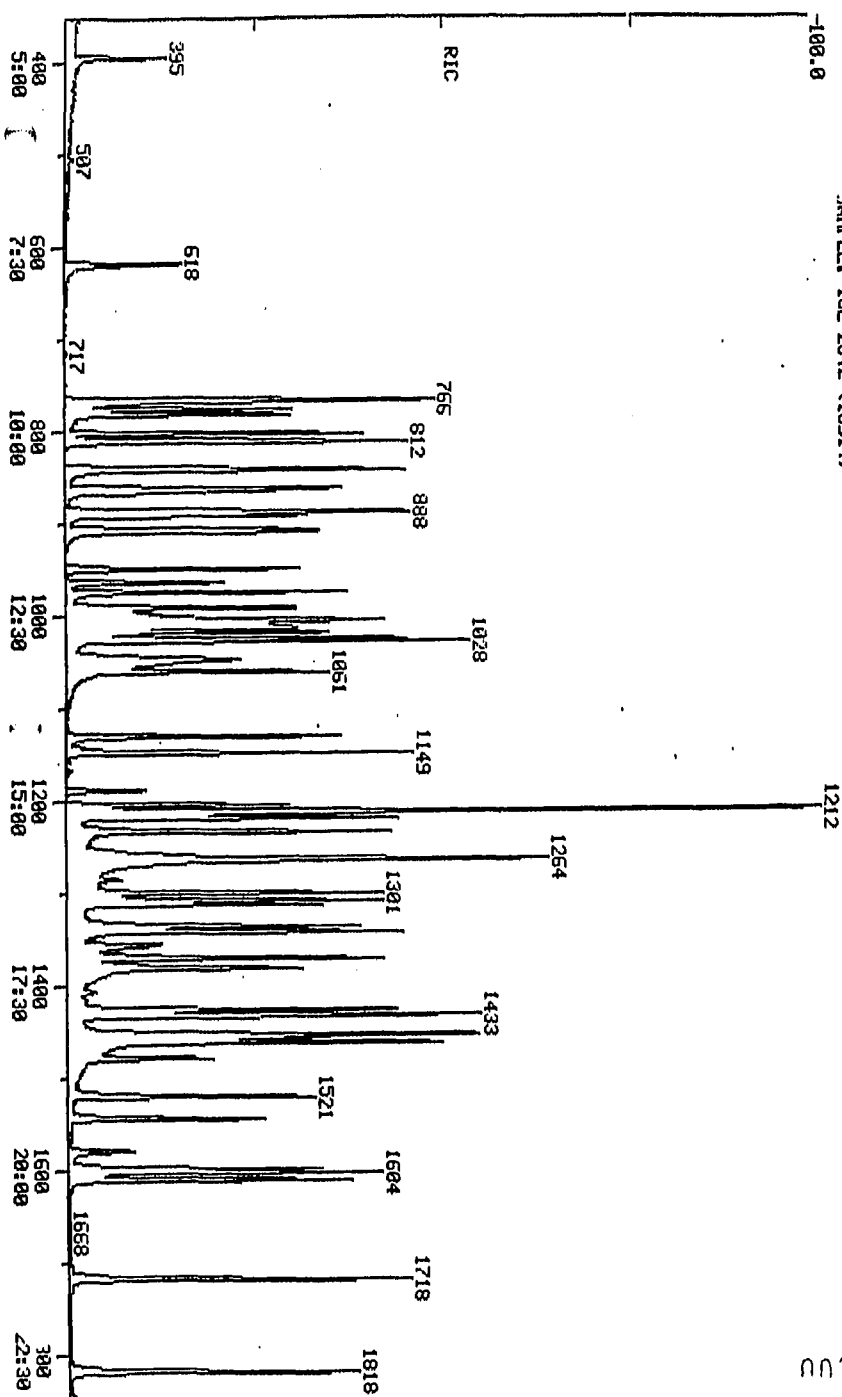
OPERATOR 754

025278

CHECK CHANNEL	← THREE POINT MULTI-POINT →			MULTIPOINT AVERAGE RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	20 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR	80 mg RESPONSE FACTOR				
1st - background (B)	1.038	0.932	0.872	0.917	0.898	5	% Difference < 1%
2nd - background (B)	1.235	1.185	1.147	1.189	1.079	9	% Difference < 1%
3rd - background (B)	1.218	1.155	1.142	1.172	1.090	6	% Difference < 1%
4th - background (B)	1.030	1.014	0.999	1.014	0.783	3	% Difference < 1%
5th - background (B)	1.361	1.093	1.144	1.331	1.177	8	% Difference < 1%
6th - background (B)	1.088	0.898	1.000	0.998	1.066	7	% Difference < 1%
7th - background (B)	0.985	0.955	0.971	0.954	0.836	12	% Difference < 20 %
8th - background (B)	1.694	1.728	1.679	1.699	1.626	1	% Difference < 20 %
9th - background (B)	✓	✓	✓	✓			Detectable Only
10th - background (B)	✓	✓	✓	✓			Reference Only

RIC
02/01/84 8:01:00
SAMPLE: IUL 2342 (10914)

NEED COMPUCHEN
COMPUCHEN DATA: HG840201C15 SCANS 350 TO 1850
OUT OF 350 TO 3200



025274

RIC
 02/01/84 8:01:00
 SAMPLE: ILE 2342 (10914)

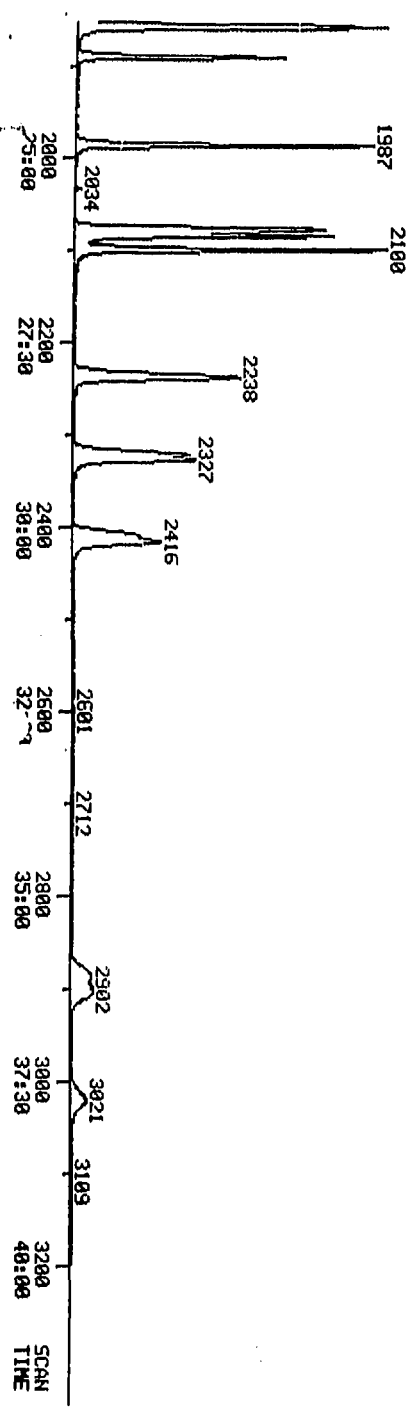
MEAD COMPUCHEN
 COMPUCHEN DATA: HG840201C15 SCANS 1850 TO 3200
 OUT OF 350 TO 3200

243712

025275

002005

31



PROCEDURE: RK

DIAGNOSTIC REPORT

2/01/84 9:02:32

DATA FILE: HGB40201C15

REFERENCE: FS007

METHOD: FS007 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

REPORT: FS007S1

< ---- STANDARDS ---- > --- PLUS UNKNOWN --- > - LIST NAMES - >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 6 6 1 86 34 31 32 84 FS007S1/FS007U1
 6 6 1 86 34 29 4 71 FS007S2/FS007U2

82 COMPOUNDS PROCESSED, 74 FOUND

< COMPOUND > ----- SEARCH ----- > SAT > ----- CHRO ----- >
 NO LIB ENTRY REF PRED SEL DELTA PEAKS FIT PEAKS M/E TOP DELTA PEAKS
 1 C1 1 -812 810 809 -1 1 996 150 809 1
 2 C2 1 -1027 1025 1025 1 1 975 136 1025 1
 3 C3 1 -1339 1337 1337 1 1 993 164 1337 1
 4 C4 1 -1401 1598 1599 1 1 988 188 1599 1
 5 C5 1 -2083 2080 2081 1 1 813 240 2080 -1 1
 6 C6 1 -2412 2409 2408 -1 1 934 264 2409 1 1
 7 C1 2 -396 394 395 1 1 994 74 395 1
 8 C1 3 -769 767 767 1 1 993 94 767 1
 9 C1 4 -768 766 766 1 1 993 93 766 1
 10 C1 5 -779 777 777 1 1 989 93 777 1
 11 C1 6 -784 782 782 1 1 995 128 782 1
 12 C1 7 -806 804 803 -1 1 997 146 803 1
 13 C1 8 -815 813 812 -1 1 991 146 812 1
 14 C1 9 -842 840 840 1 1 992 108 840 1
 15 C1 10 -845 843 842 -1 1 994 146 842 1
 16 C1 11 -865 863 862 -1 1 993 108 862 1
 17 C1 12 -867 865 865 1 1 993 121 865 1
 18 C1 13 -889 887 887 1 1 995 108 887 1
 19 C1 14 -891 889 889 1 1 995 130 888 -1 1
 20 C1 15 -895 893 892 -1 1 990 117 892 1
 21 C1 16 -912 910 910 1 1 993 123 910 1
 22 C2 2 -953 951 950 -1 1 994 82 950 1
 23 C2 3 -967 965 964 -1 1 996 139 964 1
 24 C2 4 -977 975 975 1 1 993 122 975 1
 25 C2 5 -994 992 991 -1 1 987 93 991 1
 26 C2 6 -1015 1013 1014 1 2 989 105 1014 1
 27 C2 7 -1008 1006 1005 -1 1 984 162 1005 1
 28 C2 8 -1021 1019 1018 -1 1 998 180 1018 1
 29 C2 9 -1030 1028 1028 1 1 992 128 1028 1
 30 C2 10 -1051 1049 1047 -2 1 994 127 1047 2
 31 C2 11 -1063 1061 1061 1 1 998 225 1061 1
 32 C2 12 -1133 1131 1131 1 1 990 107 1131 1
 33 C2 13 -1152 1150 1149 -1 1 976 115 1149 1
 34 C2 14 -1192 1190 1189 -1 1 980 237 1189 1
 35 C2 15 -1208 1206 1205 -1 1 991 196 1205 1
 36 C2 16 -1215 1213 1212 -1 1 987 196 1212 1
 37 C3 2 -1237 1235 1235 1 1 977 162 1234 -1 1
 38 C3 3 -1266 1264 1264 1 1 992 138 1264 1
 39 C3 4 -1303 1301 1301 1 1 986 163 1301 1
 40 C3 5 -1311 1309 1309 1 1 993 152 1309 1
 41 C3 6 -1315 1313 1313 1 1 990 165 1313 1
 42 C3 7 -1341 1339 1337 -2 2 723 138 1340 3 2
 43 C3 8 -1345 1343 1342 -1 1 988 154 1342 1
 44 C3 9 -1358 1356 1356 1 1 970 184 1356 1
 45 C3 10 -1382 1380 1383 3 2 760 109 1382 3
 46 C3 11 -1373 1371 1371 1 1 960 168 1371 1
 47 C3 12 -1384 1382 1382 1 1 983 165 1382 1
 48 C3 13 -1429 1427 1427 1 1 984 149 1427 1

51	C3	16	-1470	1468				138	1465		3	
52	C3	17	-1456	1454	1455	1	1	988	198	1454	-1	1
53	C3	18	-1460	1458	1458		1	887	169	1458		1
54	C3	19	-1465	1463	1463		1	987	77	1463		1
55	C4	2	-1523	1521	1521		1	979	248	1520	-1	1
56	C4	3	-1547	1545	1545		1	984	284	1545		1
57	C4	4	-1581	1579	1580	1	1	977	266	1580		1
58	C4	5	-1606	1604	1604		2	997	178	1604		1
59	C4	6	-1614	1612	1611	-1	2	994	178	1611		1
60	C4	7	-1720	1718	1718		1	971	149	1718		1
61	C4	8	-1820	1818	1818		1	994	202	1818		1
62	C5	2	-1861	1859	1858	-1	1	994	202	1858		1
63	C5	3							184			
64	C5	4	-1989	1987	1987		1	981	149	1987		1
65	C5	5							252			
66	C5	6	-2080	2078	2078		1	958	228	2077	-1	1
67	C5	7	-2102	2100	2100		1	915	149	2100		1
68	C5	8	-2087	2085	2085		1	984	228	2085		1
69	C5	9	-2239	2236	2238	2	1	976	149	2238		1
70	C6	2	-2324	2321	2321		1	972	252	2321		1
71	C6	3	-2330	2327	2327		1	955	252	2327		1
72	C6	4	-2420	2417	2417		1	964	252	2417		1
73	C6	5	-2890	2887	2887		1	905	276	2886	-1	2
74	C6	6	-2909	2906	2905	-1	1	942	278	2905		1
75	C6	7	-3026	3023					276	3024		2
76	C7	2	-621	619	618	-1	1	991	112	618		1
77	C7	3	-767	765					99	765		1
78	C7	4	-909	907	907		1	995	82	907		1
79	C7	5	-1222	1220	1219	-1	1	985	172	1219		1
80	C7	6	-1482	1480	1480		1	980	330	1480		1
81	C7	7	-1857	1855					212	1855		1
82	C7	8	-1892	1890	1890		1	991	244	1890		1

002087

025277

QUANTITATION REPORT FILE: HGB40201C15

DATA: HGB40201C15.TI

02/01/84 8:01:00

SAMPLE: IUL 2342 (10914)

SUBMITTED BY: 15

ANALYST: 754

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

NO	NAME
1	*D4-1,4-DICHLORO BENZENE (15)
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-METHYLPHENYL
12	412 BIS(2-CHLOROISOPROPYL)ETHER
13	622 4-METHYLPHENOL
14	442 N-NITROSDI-N-PROPYLAMINE
15	436 HEXACHLOROETHANE
16	440 NITRO BENZENE
17	*460 DB-NAPHTHALENE (15)
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	*D10-ACENAPHTHENE (15)
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
	417 4-CHLOROPHENYL PHENYL ETHER

002063

025278

NO 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 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)

Ac 2/1/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
1	150	809	10:07	1	1.000	A VB	49251.	40.000 NG	0.71
2	74	395	4:56	1	0.488	A BV	32865.	50.000 NG	0.89
3	94	767	9:35	1	0.948	A BV	72485.	50.000 NG	0.89
4	93	766	9:34	1	0.947	A BV	56008.	50.000 NG	0.89
5	93	777	9:43	1	0.960	A VV	71514.	50.000 NG	0.89
6	128	782	9:46	1	0.967	A BV	48121.	50.000 NG	0.89
7	146	803	10:02	1	0.993	A BV	52846.	50.000 NG	0.89
8	146	812	10:09	1	1.004	A VB	57749.	50.000 NG	0.89
9	108	840	10:30	1	1.038	A BV	32410.	50.000 NG	0.89
10	146	842	10:31	1	1.041	A BB	51526.	50.000 NG	0.89
11	108	862	10:46	1	1.066	A VV	48859.	50.000 NG	0.89
12	121	865	10:49	1	1.069	A BB	18179.	50.000 NG	0.89
13	108	887	11:05	1	1.096	A VV	49561.	50.000 NG	0.89
14	130	888	11:06	1	1.098	A BB	10294.	50.000 NG	0.89
15	117	892	11:09	1	1.103	A BB	26739.	50.000 NG	0.89
16	123	910	11:22	1	1.125	A BB	25869.	50.000 NG	0.89
17	136	1025	12:49	17	1.000	A BB	96044.	40.000 NG	0.71
	82	950	11:52	17	0.927	A BV	118581.	50.000 NG	0.89

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
19	139	964	12:03	17	0.940	A BV	24130.	50.000 NG	0.89
20	122	975	12:11	17	0.951	A BV	43000.	50.000 NG	0.89
	93	991	12:23	17	0.967	A BV	68787.	50.000 NG	0.89
22	105	1014	12:40	17	0.989	A BV	195370.	249.999 NG	4.45
23	162	1005	12:34	17	0.980	A BB	33144.	50.000 NG	0.89
24	180	1018	12:43	17	0.993	A BB	37393.	50.000 NG	0.89
25	128	1028	12:51	17	1.003	A BV	137146.	50.000 NG	0.89
26	127	1047	13:05	17	1.021	A*VV	152432.	249.999 NG	4.45
27	225	1061	13:16	17	1.035	A BB	18635.	50.000 NG	0.89
28	107	1131	14:08	17	1.103	A BV	58530.	50.000 NG	0.89
29	115	1149	14:22	17	1.121	A BB	42693.	50.000 NG	0.89
30	237	1189	14:52	17	1.160	A BB	7496.	50.000 NG	0.89
31	196	1205	15:04	17	1.176	A BV	23010.	50.000 NG	0.89
32	196	1212	15:07	17	1.182	A VV	106918.	249.999 NG	4.45
33	164	1337	16:43	33	1.000	A BB	52286.	40.000 NG	0.71
34	162	1234	15:25	33	0.923	A BB	74136.	50.000 NG	0.89
35	138	1264	15:48	33	0.945	A BV	147633.	249.999 NG	4.45
36	163	1301	16:16	33	0.973	A BB	101598.	50.000 NG	0.89
37	152	1309	16:22	33	0.979	A BB	113465.	50.000 NG	0.89
38	165	1313	16:25	33	0.982	A BB	20015.	50.000 NG	0.89
39	138	1340	16:45	33	1.002	A*VV	7899.	249.999 NG	4.45
40	154	1342	16:46	33	1.004	A BB	72667.	50.000 NG	0.89
41	184	1356	16:57	33	1.014	A BV	13908.	249.999 NG	4.45
42	109	1377	17:13	33	1.030	A*BB	18556.	125.000 NG	2.23
43	168	1371	17:08	33	1.025	A BV	107794.	50.000 NG	0.89
44	165	1382	17:16	33	1.034	A VB	30603.	50.000 NG	0.89
45	149	1427	17:50	33	1.067	A BV	118272.	50.000 NG	0.89
46	204	1434	17:55	33	1.073	A BB	30334.	50.000 NG	0.89
	166	1433	17:55	33	1.072	A BB	84352.	50.000 NG	0.89
48	138	1465	18:19	33	1.096	A*VV	16143.	249.999 NG	4.45
49	198	1454	18:10	33	1.088	A BV	42498.	249.999 NG	4.45
50	169	1458	18:13	33	1.091	A BB	43511.	50.000 NG	0.89
51	77	1463	18:17	33	1.094	A VB	148975.	50.000 NG	0.89
52	188	1599	19:59	52	1.000	A BV	92703.	40.000 NG	0.71
53	248	1920	19:00	52	0.951	A BB	18682.	50.000 NG	0.89
54	284	1945	19:19	52	0.966	A BB	22347.	50.000 NG	0.89
55	266	1580	19:45	52	0.988	A BB	9334.	50.000 NG	0.89
56	178	1604	20:03	52	1.003	A BV	127289.	50.000 NG	0.89
57	178	1611	20:08	52	1.008	A VV	113057.	50.000 NG	0.89
58	149	1718	21:28	52	1.074	A VV	202706.	50.000 NG	0.89
59	202	1818	22:43	52	1.137	A VV	127978.	50.000 NG	0.89
60	240	2080	26:00	60	1.000	A BV	60987.	40.000 NG	0.71
61	202	1858	23:13	60	0.893	A VV	127493.	50.000 NG	0.89
62	NDT	FOUR					000		
63	149	1987	24:50	60	0.955	A BV	82451.	50.000 NG	0.89
64	NDT	FOUR					000		
65	228	2077	25:58	60	0.999	A VV	103658.	50.000 NG	0.89
66	149	2100	26:15	60	1.010	A VV	113700.	50.000 NG	0.89
67	228	2085	26:04	60	1.002	A VV	100987.	50.000 NG	0.89
68	149	2238	27:58	60	1.076	A BV	203845.	50.000 NG	0.89
69	264	2409	30:07	69	1.000	A BV	61788.	40.000 NG	0.71
70	252	2321	29:01	69	0.963	A BV	85196.	50.000 NG	0.89
71	252	2327	29:05	69	0.966	A VV	93598.	50.000 NG	0.89
72	252	2417	30:13	69	1.003	A BV	84761.	50.000 NG	0.89
	276	2886	36:04	69	1.198	A*BV	50903.	50.000 NG	0.89
74	278	2905	36:19	69	1.206	A BV	44440.	50.000 NG	0.89

000070

025280

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:55	1.00	1.072	1.00	50.00	50.00	1.291	1.291	1.00
48	18:19	1.00	1.096	1.00	250.00	250.00	0.049	0.049	1.00
49	18:10	1.00	1.088	1.00	250.00	250.00	0.130	0.130	1.00
50	18:13	1.00	1.090	1.00	50.00	50.00	0.666	0.666	1.00
51	18:17	1.00	1.094	1.00	50.00	50.00	2.279	2.279	1.00
52	19:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	19:00	1.00	0.951	1.00	50.00	50.00	0.161	0.161	1.00
54	19:19	1.00	0.966	1.00	50.00	50.00	0.193	0.193	1.00
55	19:48	1.00	0.988	1.00	50.00	50.00	0.081	0.081	1.00
56	20:03	1.00	1.003	1.00	50.00	50.00	1.098	1.098	1.00
57	20:08	1.00	1.008	1.00	50.00	50.00	0.976	0.976	1.00
58	21:28	1.00	1.074	1.00	50.00	50.00	1.749	1.749	1.00
59	22:43	1.00	1.137	1.00	50.00	50.00	1.104	1.104	1.00
60	26:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	23:13	1.00	0.893	1.00	50.00	50.00	1.672	1.672	1.00
62	23:41		0.893		50.00	50.00		0.010	
63	24:50	1.00	0.955	1.00	50.00	50.00	1.082	1.082	1.00
64	26:34		1.001		50.00	50.00		0.035	
65	25:58	1.00	0.999	1.00	50.00	50.00	1.360	1.360	1.00
66	26:15	1.00	1.010	1.00	50.00	50.00	1.491	1.491	1.00
67	26:04	1.00	1.002	1.00	50.00	50.00	1.325	1.325	1.00
68	27:58	1.00	1.076	1.00	50.00	50.00	2.674	2.674	1.00
69	30:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	29:01	1.00	0.963	1.00	50.00	50.00	1.103	1.103	1.00
71	29:05	1.00	0.966	1.00	50.00	50.00	1.212	1.212	1.00
72	30:13	1.00	1.003	1.00	50.00	50.00	1.097	1.097	1.00
73	36:04	1.00	1.198	1.00	50.00	50.00	0.659	0.659	1.00
74	36:19	1.00	1.206	1.00	50.00	50.00	0.575	0.575	1.00
75	37:48	1.00	1.255	1.00	50.00	50.00	0.293	0.293	1.00
76	7:43	1.00	0.764	1.00	50.00	50.00	0.649	0.649	1.00
77	9:34	1.00	0.746	1.00	50.00	50.00	0.446	0.446	1.00
78	11:20	1.00	0.885	1.00	50.00	50.00	0.550	0.550	1.00
79	15:14	1.00	1.189	1.00	50.00	50.00	0.662	0.662	1.00
80	18:30	1.00	1.107	1.00	50.00	50.00	0.135	0.135	1.00
81	23:11	1.00	0.892	1.00	50.00	50.00	1.453	1.453	1.00
82	23:37	1.00	1.182	1.00	50.00	50.00	0.693	0.693	1.00

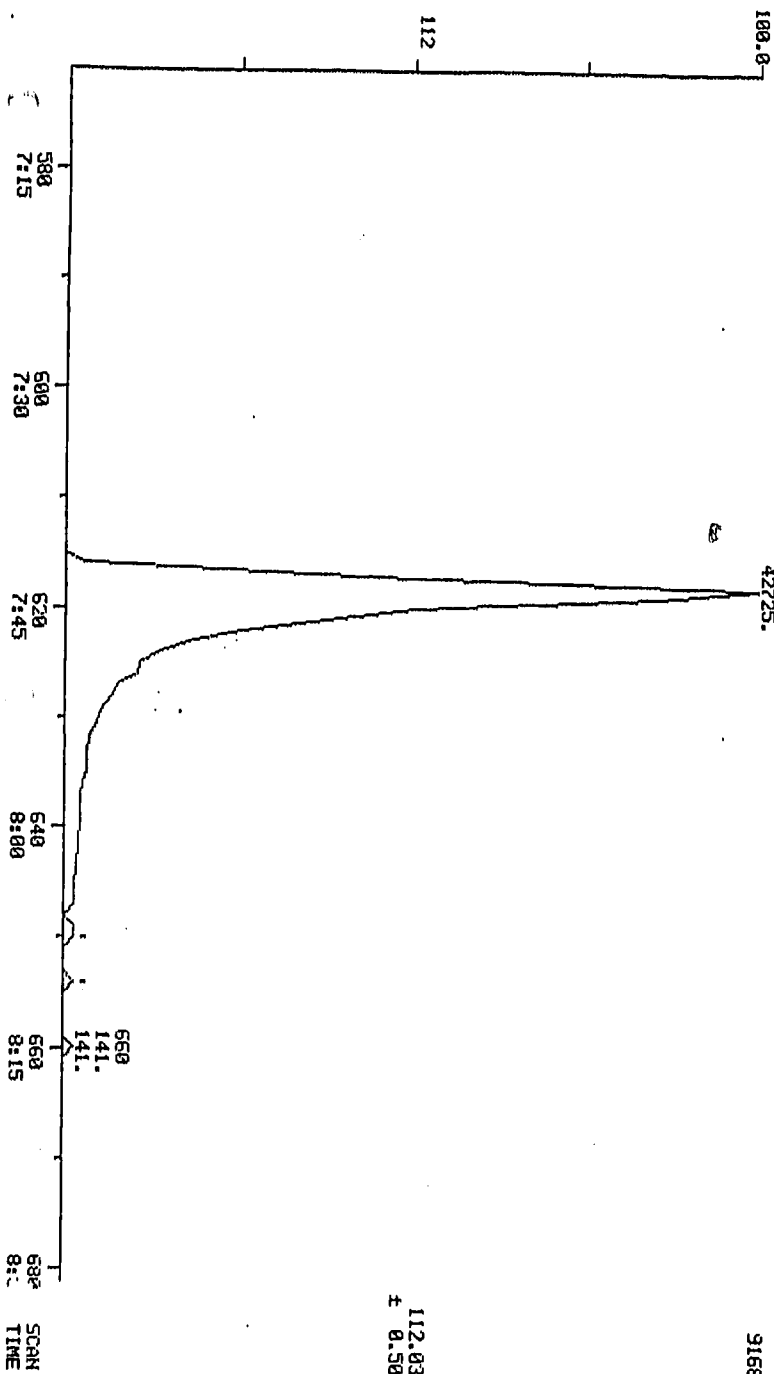
007022

025282

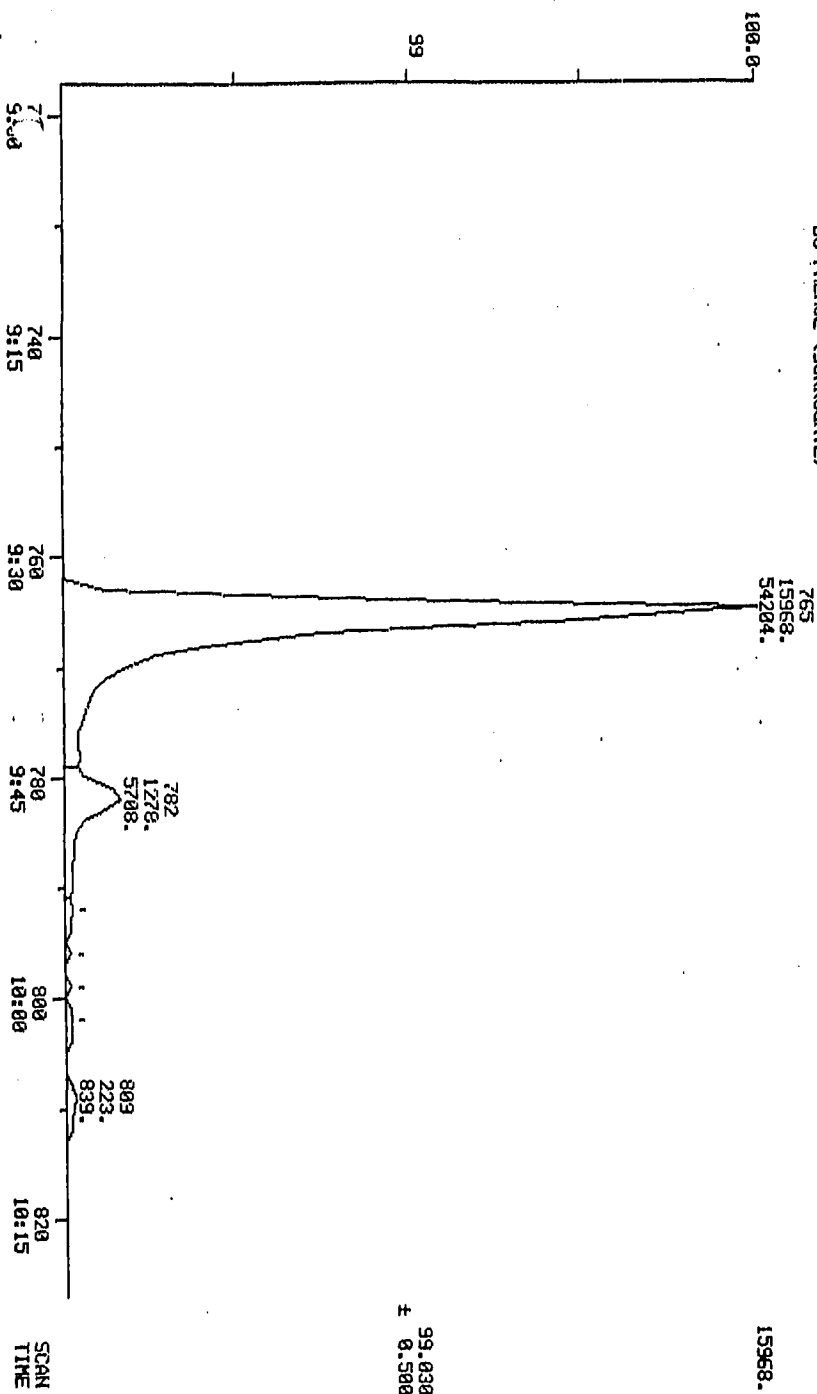
MEAD COMPUCHEM
COMPUCHEM DATA: HG840201C15 SCANS 571 TO 681

002971
025283
3168.

31

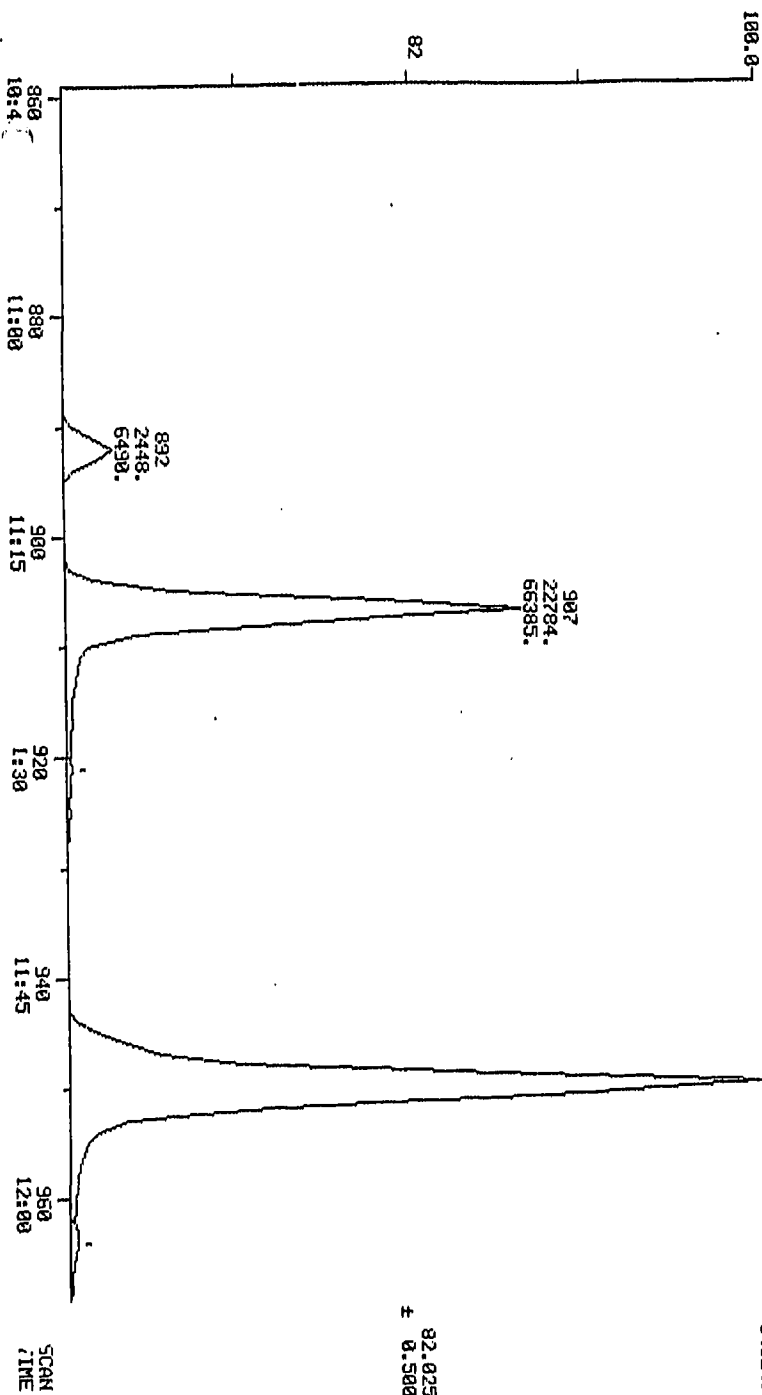


31



MASS CHROMATOGRAM
02/01/84 8:01:00
SAMPLE: IUL 2342 (10314)
447 D5-NITROBENZENE (SURROGATE)

HEAD COMPUCHEN
COMPUCHEN DATA: HG840201C15 SCANS 859 TO 969



025285

MASS CHROMATOGRAM
 02/01/84 8:01:00
 SAMPLE: IUL 2342 (10914)
 448 2-FLUOROBIPHENYL (SURROGATE)

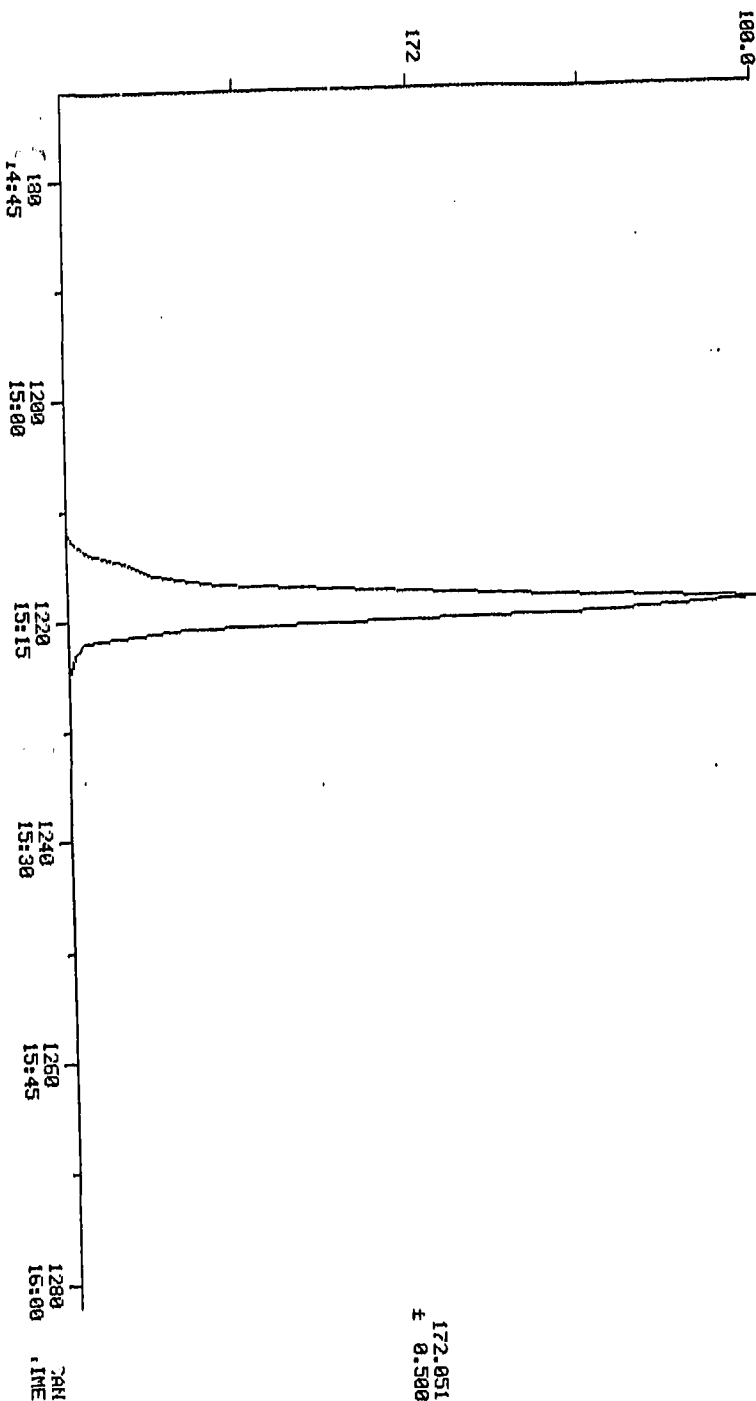
HEAD COMPUCHEN
 COMPUCHEN DATA: HG840201C15 SCANS 1172 TO 1282

003976
 025286

1219
 26208.
 79524.

26208.

172.051
 ± 0.500



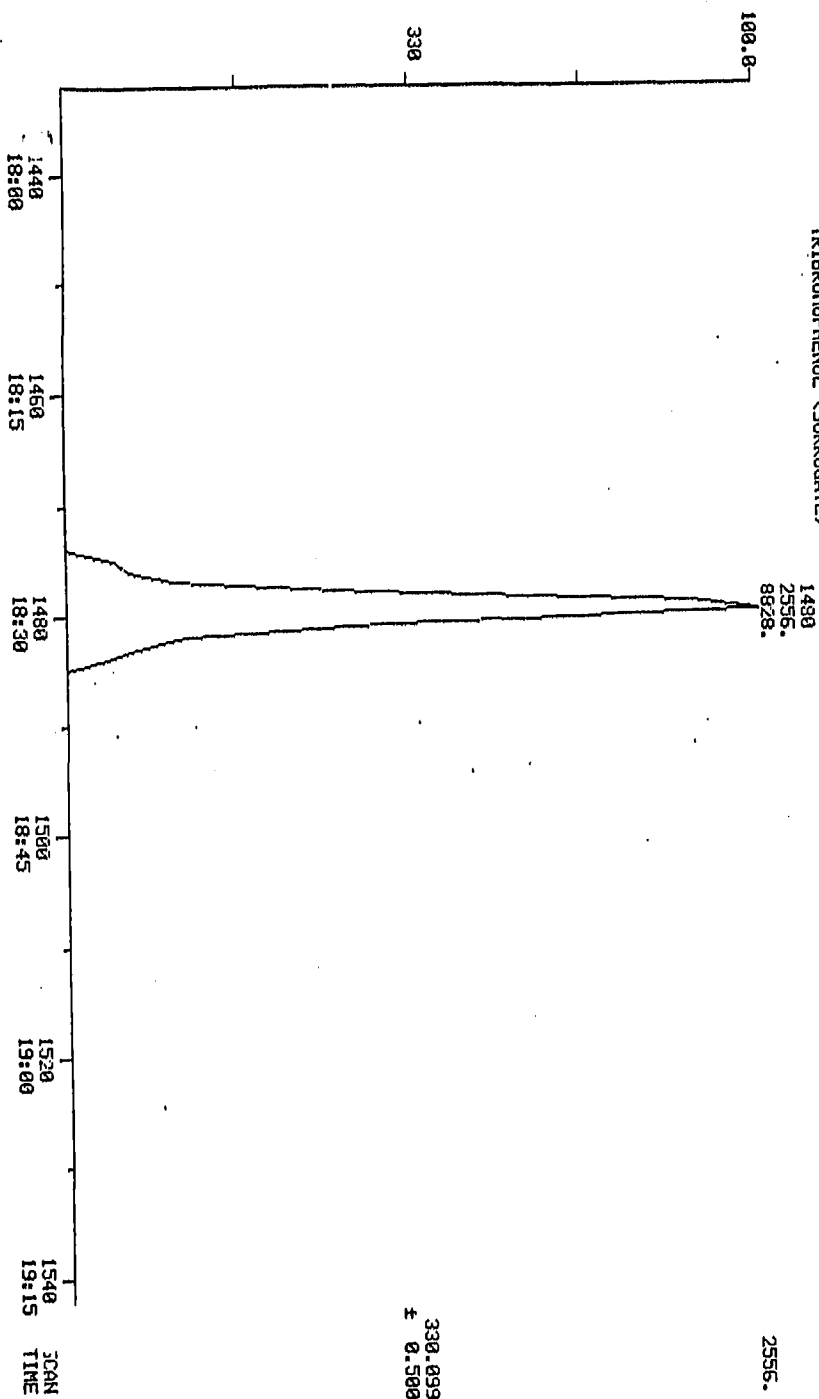
MASS CHROMATOGRAM
02/01/84 8:01:00
SAMPLE: IUL 2342 (10314)
TRIBROMOPHENOL (SURROGATE)

MEAD. COMPUTHER
COMPUHER DATA: HG840201C15 SCANS 1432 TO 1542

002027

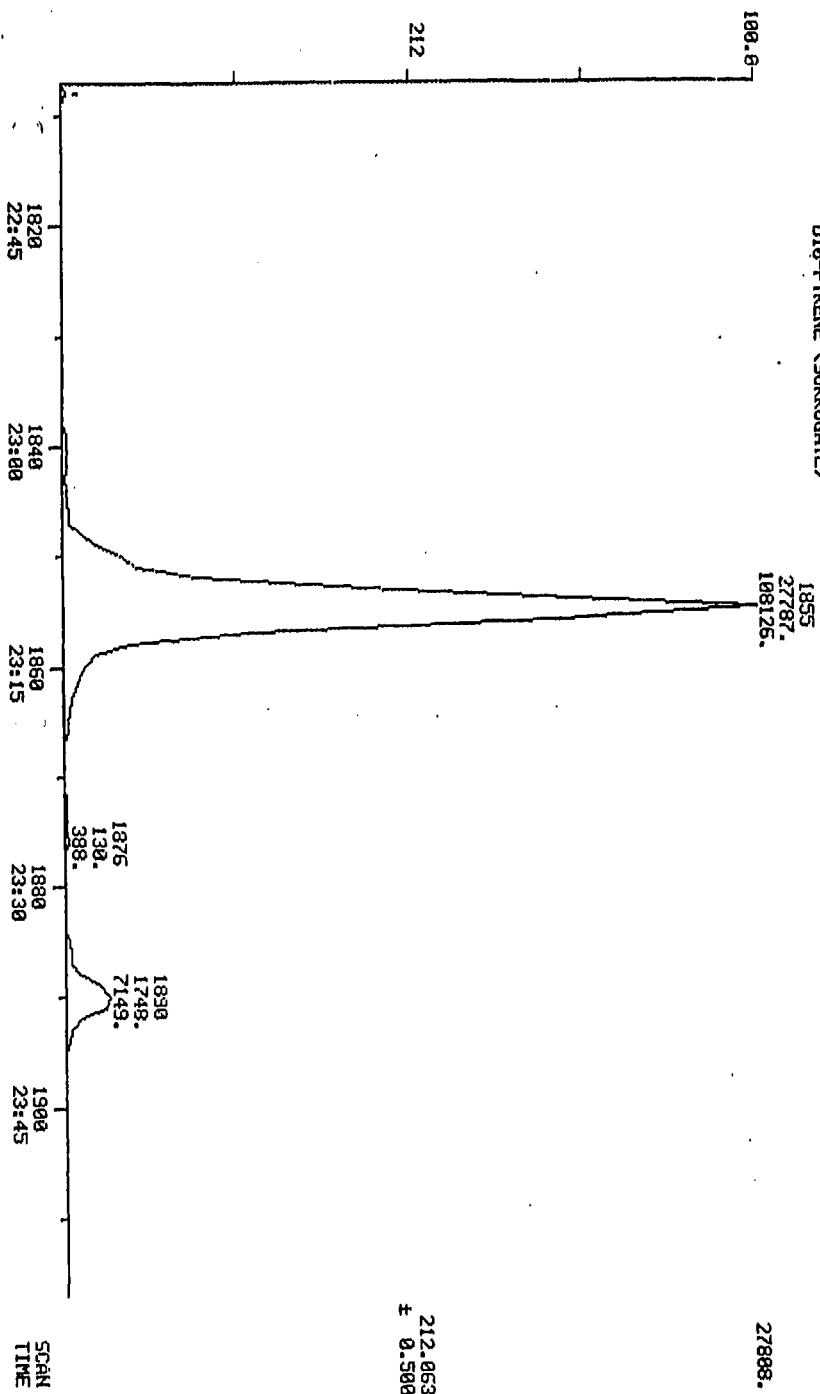
025287

31



MASS CHROMATOGRAM
02/01/84 8:01:00
SAMPLE: IUL 2342 (10914)
DIB-PYRENE (SURROGATE)

HEAD COMPUCHEN
COMPUCHEN DATA: HG840201C15 SCANS 1807 TO 1917

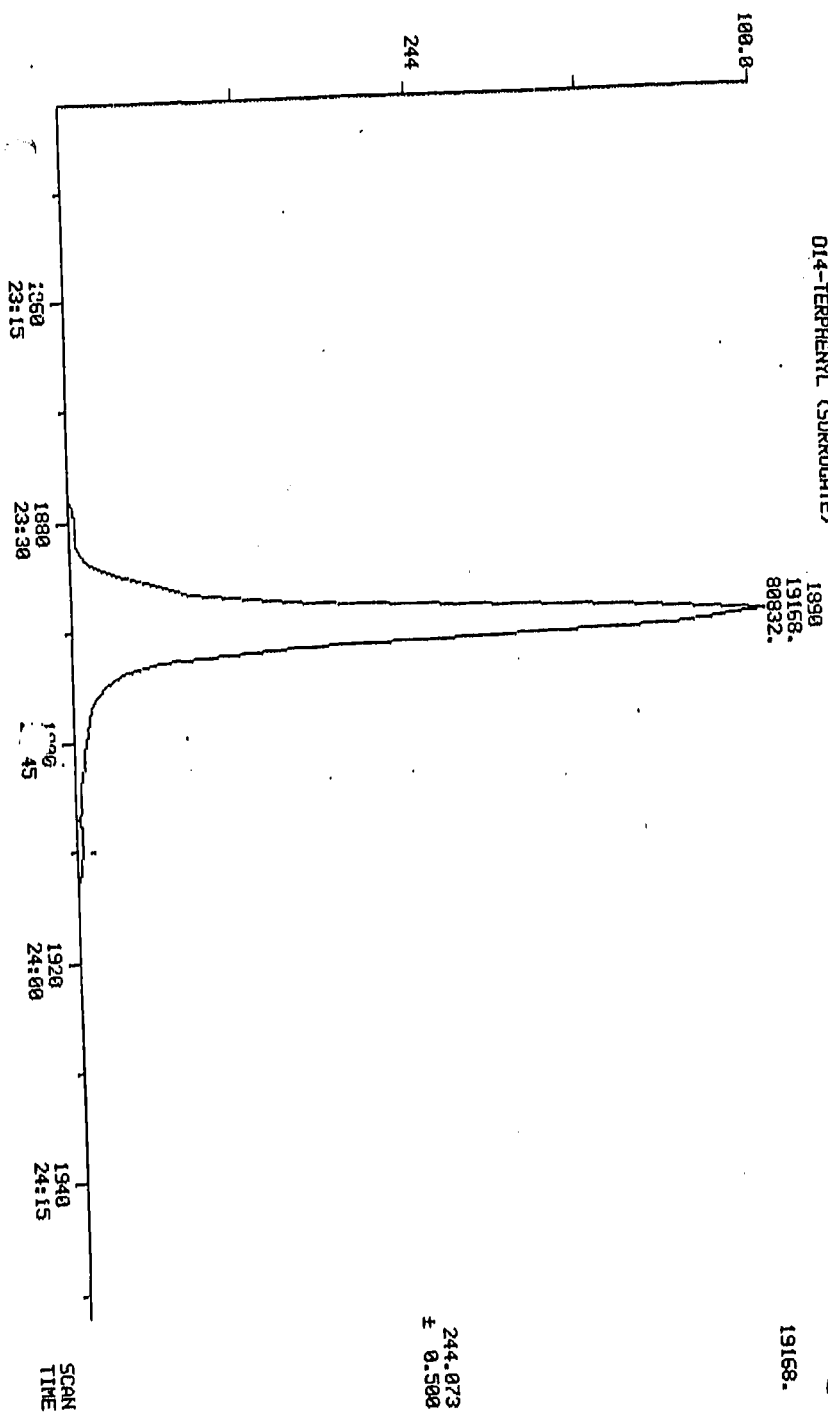


000070

025288

MASS CHROMATOGRAM
02/01/84 8:01:00
SAMPLE: IUL 2342 (10914)
014-TERPHENYL (SURROGATE)

HEAD COMPUCHEM
COMPUCHEM DATA: HC840201C15 SCANS 1842 TO 1952



000000
025289

2333

Mead Compuchem GC/MS Analysis Log

Initial Time of Run 7:29
Time Time Elapsed 15:27

Shit: 15:29
Date: 10/21/87
Ane: 10290

Run Log

Press Hard, Multiple Copies

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	DH840201.C15	✓		1.8	754		157	10911
2	DH840201.C15	✓		1.8	754		157	10711
3	H6840201.C15	✓		1.8	754		157	STN 2342
4	GH019260A15			1.0.8	659		157	10911
5	GH019260A15			1.0.8	659		157	10911
6	GH019257A15			1.0.8	659		157	10711
7	GH019260A15			1.0.8	659	detected	157	10911
8	GH019260A15			1.0.8	657		157	10911
9	GH019260A15			1.0.8	657		157	10911
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

RN 12

Mead ComputChem GC/MS Analysis Log

Initial Time of Tune 7:29
Time Tune Elapsed 15:27

Shift(s) (A) (B) (C) ☒
Date 2/1/84
Analysis Type 655C7

Log Press Hard, Multiple Copies

Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
C15	☒		1.0	754		157	10911 (185/256 purge 100%)
C15	☒		1.0	754		157	10711
C15	☒		1.0	754		157	STD 2342 (10714)
60A15			1.0	659		157	10910 #033
4A15			1.0	659		157	10910 #033
7A15			1.0	659		157	10910 #033
4A15			1.0	659	deleted	157	10910 #033 filament 30
264A15			1.0	659		157	10910 #033
25A15			1.0	659		157	10910 #033

RN 2/1/84

025291

FSC "CHECK STANDARD" TITRATION

DATE 15

STANDARD FILE NAME

H6840201815

DATE

02/01/84

OPERATOR

34/6520

01/01/84

← THREE POINT MULTI-POINT →

CHECK CONCENTRATION	20 mg RESPONSE FACTOR	40 mg RESPONSE FACTOR	60 mg RESPONSE FACTOR	MULTIPOINT AVERAGE RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
1st - unknown concentration (B)	1.038	0.932	0.872	0.947	0.938	0.9	5 Difference < 1%
2nd - unknown concentration (B)	1.235	1.185	1.147	1.189	1.142	3.9	5 Difference < 1%
3rd - unknown concentration (B)	1.218	1.155	1.142	1.172	1.112	5.1	5 Difference < 1%
4th - unknown concentration (B)	1.030	1.014	0.999	1.014	1.098	8.3	5 Difference < 1%
5th - unknown concentration (B)	1.361	1.093	1.144	1.331	1.325	0.4	5 Difference < 1%
6th - unknown concentration (B)	1.088	0.898	1.000	0.997	1.027	2.9	5 Difference < 1%
7th - unknown concentration (B)	0.935	0.935	0.971	0.954	0.988	3.6	5 Difference < 1%
8th - unknown concentration (B)	1.694	1.713	1.679	1.699	1.749	2.9	5 Difference < 1%
9th - unknown concentration (B)	✓	✓	✓	✓			Detectable Only
10th - unknown concentration (B)	✓	✓	✓	✓			RETRACTOR ONLY

POSTED

✓

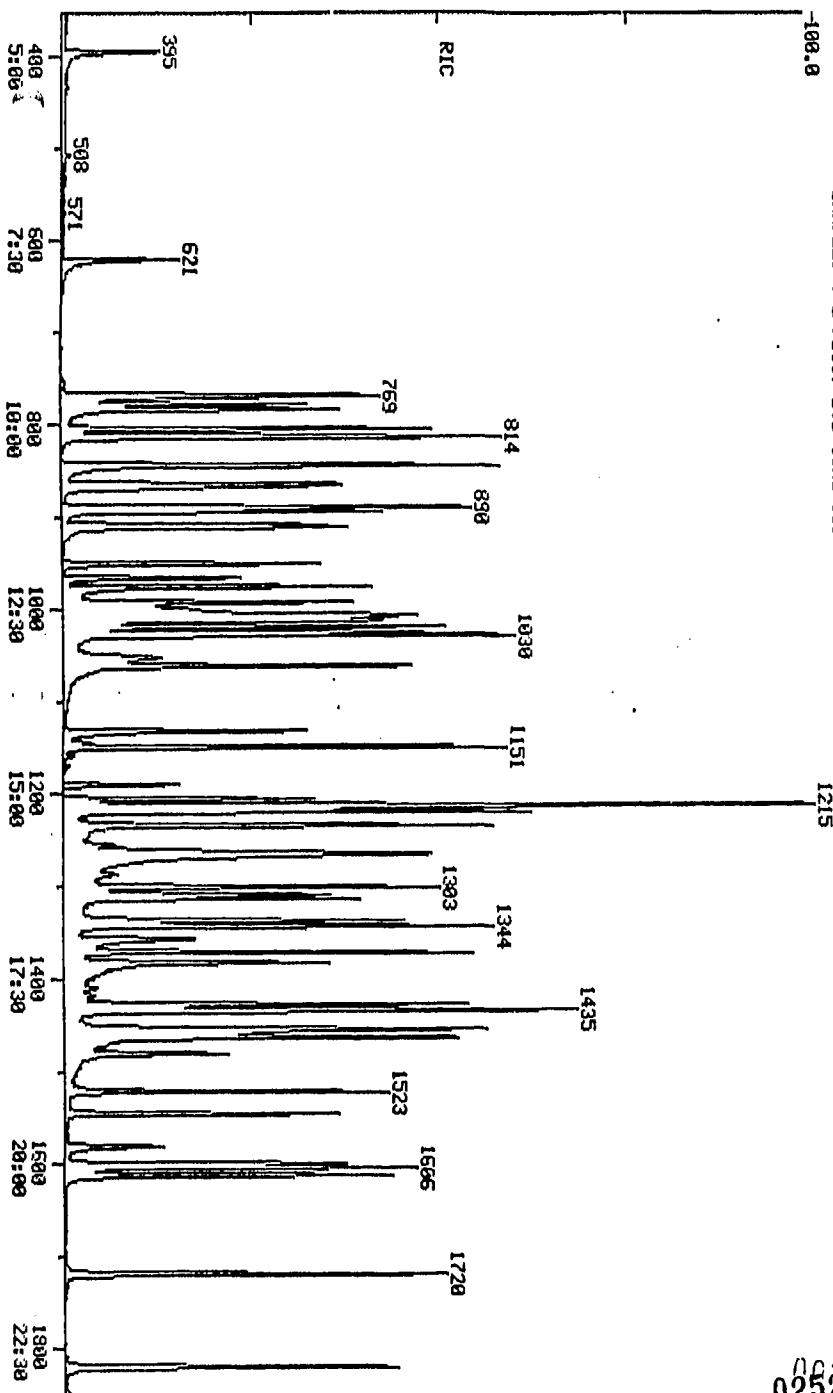
MEAD COMPUTHER

COMPUCHER DATA: H0840201815 SCANS 350 TO 1850

OUT OF 350 TO 3156

RIC
02/01/84 17:27:00
SAMPLE: IUL F50C7 STD 50MG 10914(2342)ON#15

0252933

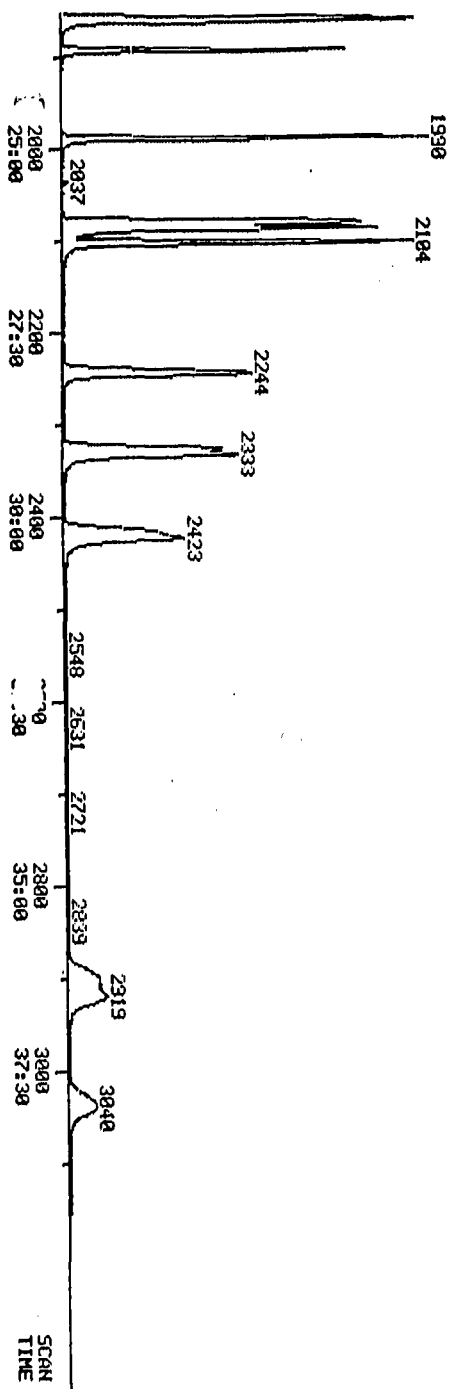


RIC
 02/01/84 17:27:00
 SAMPLE: IOL F50C7 STD 50NG 10914(2342)00N#15

HEAD COMPUCHEN
 COMPUCHEN DATA: H0840201815 SCANS 1850 TO 3156
 OUT OF 350 TO 3156

159232.

0252944



PROCEDURE: RK
DATA FILE: HQ840201B15
REFERENCE: FSCC7
METHOD: FSCC7
REPORT: FSCC7S1

DIAGNOSTIC REPORT

2/01/84 18:09:00

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- > < ---- PLUS UNKNOWNNS ---- > < - LIST NAMES - >
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
6 6 1 137 34 48 18 96 FSCC7S1/FSCC7U1
6 6 1 137 34 30 8 241 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 -809 810 811 1 1 1000 130 811 1
2 C2 1 -1025 1026 1026 1 1 989 136 1026 1
3 C3 1 -1337 1339 1339 1 1 997 164 1339 1
4 C4 1 -1599 1602 1601 -1 1 991 188 1601 1
5 C5 1 -2080 2084 2083 -1 1 853 240 2083 1
6 C6 1 -2409 2414 2414 2 1 938 264 2414 1
7 C1 2 -395 396 395 -1 1 994 74 395 1
8 C1 3 -767 768 769 1 1 994 84 769 1
9 C1 4 -766 767 767 1 1 994 93 767 1
10 C1 5 -777 778 779 1 1 988 93 779 1
11 C1 6 -782 783 784 1 1 995 128 784 1
12 C1 7 -803 804 805 1 1 994 146 805 1
13 C1 8 -812 813 814 1 1 992 146 814 1
14 C1 9 -840 841 841 1 1 994 108 842 1
15 C1 10 -842 843 844 1 1 994 146 844 1
16 C1 11 -862 864 864 1 1 991 108 864 1
17 C1 12 -865 867 867 1 1 992 121 867 1
18 C1 13 -887 889 889 1 1 992 108 889 1
19 C1 14 -888 890 890 1 1 999 130 890 1
20 C1 15 -892 894 894 1 1 989 117 894 1
21 C1 16 -910 912 912 1 1 991 123 912 1
22 C2 2 -950 952 952 1 1 983 82 952 1
23 C2 3 -964 966 966 1 1 992 139 966 1
24 C2 4 -975 977 976 -1 1 997 122 976 1
25 C2 5 -991 993 993 1 1 995 93 993 1
26 C2 6 -1014 1016 1014 -2 3 995 105 1014 1
27 C2 7 -1005 1007 1007 1 1 980 162 1007 1
28 C2 8 -1018 1020 1020 1 1 994 180 1020 1
29 C2 9 -1028 1030 1030 1 1 995 128 1030 1
30 C2 10 -1047 1049 1049 1 1 992 127 1049 1
31 C2 11 -1061 1063 1062 -1 1 999 225 1062 1
32 C2 12 -1131 1133 1133 1 1 993 107 1133 1
33 C2 13 -1149 1151 1151 1 1 994 115 1151 1
34 C2 14 -1189 1191 1191 1 1 988 237 1191 1
35 C2 15 -1205 1207 1207 1 1 999 196 1207 1
36 C2 16 -1212 1214 1215 1 1 992 196 1214 -1
37 C3 2 -1234 1236 1236 1 1 997 162 1236 1
38 C3 3 -1264 1266 1266 1 1 998 138 1266 1
39 C3 4 -1301 1303 1303 1 1 991 163 1303 1
40 C3 5 -1309 1311 1311 1 1 996 152 1311 1
41 C3 6 -1313 1315 1315 1 1 992 165 1315 1
42 C3 7 -1340 1342 1342 1 1 994 138 1341 2
43 C3 8 -1342 1344 1344 1 1 994 154 1344 1
44 C3 9 -1356 1358 1358 3 989 184 1358 1
45 C3 10 -1377 1380 1384 4 2 718 109 1384 1
46 C3 11 -1371 1374 1373 -1 1 958 168 1373 1
47 C3 12 -1382 1385 1384 -1 1 992 165 1384 1
48 C3 13 -1407 1409 1409 -1 1 885 149 1409 1

50	C3	15	-1433	1436	1435	-1	1	945	166	1434	-1	1
51	C3	16	-1465	1468					138	1466		2
52	C3	17	-1454	1457	1456	-1	1	988	198	1455	-1	1
53	C3	18	-1458	1461	1460	-1	1	864	169	1460		1
54	C3	19	-1463	1466	1465	-1	1	989	77	1465		1
55	C4	2	-1520	1523	1523		1	996	248	1523		1
56	C4	3	-1545	1548	1547	-1	1	995	284	1547		1
57	C4	4	-1580	1583	1582	-1	1	993	266	1582		1
58	C4	5	-1604	1607	1606	-1	2	996	178	1605	-1	1
59	C4	6	-1611	1614	1613	-1	2	995	178	1613		1
60	C4	7	-1718	1722	1720	-2	1	963	149	1720		1
61	C4	8	-1818	1822	1821	-1	1	994	202	1821		1
62	C5	2	-1858	1862	1861	-1	1	991	202	1861		1
63	C5	3							184			
64	C5	4	-1987	1992	1990	-2	1	991	149	1990		1
65	C5	5							252			
66	C5	6	-2077	2083	2080	-3	1	972	228	2080		1
67	C5	7	-2100	2106	2104	-2	1	915	149	2104		1
68	C5	8	-2085	2091	2088	-3	1	993	228	2088		1
69	C5	9	-2238	2245	2244	-1	1	979	149	2244		1
70	C6	2	-2321	2328	2327	-1	1	969	252	2327		1
71	C6	3	-2327	2334	2333	-1	2	974	252	2333		1
72	C6	4	-2417	2424	2424		1	974	252	2425	1	1
73	C6	5	-2886	2896	2902	6	1	964	276	2899	-3	2
74	C6	6	-2905	2915	2919	4	1	958	278	2921	2	1
75	C6	7	-3024	3035	3039	4	1	928	276	3039		3
76	C7	2	-618	616	621	5	1	994	112	621		1
77	C7	3	-765	764					99	767		1
78	C7	4	-907	906	909	3	1	996	82	909		1
79	C7	5	-1219	1220	1221	1	1	989	172	1221		1
80	C7	6	-1480	1483	1482	-1	1	991	330	1482		1
81	C7	7	-1855	1859					212	1857		1
82	C7	8	-1890	1895	1893	-2	1	990	244	1893		1

003956

025296

QUANTITATION REPORT FILE: HGB40201B15

DATA: HGB40201B15.TI

QC 21/84 17:27:00

ST FILE: 1UL FSCC7 STD 50NG 10914(2342)DN#15

SUBMITTED BY: 15

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-NITROSODIMETHYLAMINE
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 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

002287

31

025297

NO NAME
 47 432 FLUORENE
 48 480 4-NITROANILINE
 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
 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)

MB 2/1/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	150	811	10:08	1	1.000	A VB	42239.	40.000 NG	0.86
2	74	395	4:56	1	0.487	A BV	23711.	42.062 NG	0.91
3	94	769	9:37	1	0.948	A BV	51322-47788	38.436 NG	0.83
4	NOT FOUND 77						10571-5655		
5	93	779	9:44	1	0.961	A VV	52369.	42.693 NG	0.92
6	128	784	9:48	1	0.967	A BV	38038.	46.084 NG	0.99
7	146	805	10:04	1	0.993	A BV	46273.	51.049 NG	1.10
8	146	814	10:10	1	1.004	A VV	50757.	51.241 NG	1.10
9	108	842	10:31	1	1.038	A BV	19383	34.866 NG	0.75
10	146	844	10:33	1	1.041	A BB	43728.	49.477 NG	1.07
11	108	864	10:48	1	1.065	A VV	35623.	42.507 NG	0.92
12	121	867	10:50	1	1.069	A BB	14970.	48.009 NG	1.03
13	108	889	11:07	1	1.096	A VV	38812.	45.656 NG	0.98
14	130	890	11:07	1	1.097	A BB	8219.	46.548 NG	1.00
15	117	894	11:10	1	1.102	A BB	21433.	46.731 NG	1.01
16	123	912	11:24	1	1.125	A BV	20004.	45.082 NG	0.97
	136	1026	12:49	17	1.000	A BB	81539.	40.000 NG	0.86
18	82	952	11:54	17	0.928	A BV	80525.	39.993 NG	0.86

0252985

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
19	139	966	12:04	17	0.942	A BV	19459.	47.493 NG	1.02
20	122	976	12:12	17	0.951	A BV	32762.	44.872 NG	0.97
21	93	993	12:25	17	0.968	A BV	47796.	40.922 NG	0.88
22	105	1014	12:40	17	0.988	A VV	51321.	77.275 NG	1.66
23	162	1007	12:35	17	0.981	A BV	28242.	50.184 NG	1.08
24	180	1020	12:45	17	0.994	A BB	34574.	54.454 NG	1.17
25	128	1030	12:52	17	1.004	A BV	113259.	48.637 NG	1.05
26	NOT FOUND	1054	12:54				45461		
27	225	1062	13:16	17	1.035	A BB	19610.	61.976 NG	1.33
28	107	1133	14:10	17	1.104	A BV	40718.	40.971 NG	0.88
29	115	1151	14:23	17	1.122	A BB	35349.	48.763 NG	1.05
30	237	1191	14:53	17	1.161	A BB	7953.	62.485 NG	1.35
31	196	1207	15:05	17	1.176	A BV	19028.	48.702 NG	1.05
32	196	1214	15:10	17	1.183	A VV	97720.	269.139 NG	5.80
33	164	1339	16:44	33	1.000	A BB	45279.	40.000 NG	0.86
34	162	1236	15:27	33	0.923	A BV	66511.	51.799 NG	1.12
35	138	1266	15:49	33	0.945	A BV	102747.	200.916 NG	4.33
36	163	1303	16:17	33	0.973	A BB	78545.	44.637 NG	0.96
37	152	1311	16:23	33	0.979	A BB	69392.	35.311 NG	0.76
38	165	1315	16:26	33	0.982	A BB	16140.	46.559 NG	1.00
39	138	1341	16:46	33	1.001	A*BV	2359.	93.523 NG	2.01
40	154	1344	16:48	33	1.004	A BB	62438.	49.610 NG	1.07
41	184	1358	16:58	33	1.014	A BV	16110.	334.393 NG	7.20
42	109	1389	17:19	33	1.035	A BV	5795.	45.079 NG	0.97
43	168	1373	17:10	33	1.025	A BV	92017.	49.287 NG	1.06
44	165	1384	17:18	33	1.034	A VB	22847.	43.102 NG	0.93
45	149	1429	17:52	33	1.067	A VV	87084.	42.512 NG	0.92
46	204	1436	17:57	33	1.072	A BB	29034.	55.232 NG	1.19
47	166	1434	17:55	33	1.071	A BB	69855.	47.815 NG	1.03
48	138	1466	18:19	33	1.095	A*VV	6713.	120.055 NG	2.59
49	198	1455	18:11	33	1.087	A VB	36336.	246.829 NG	5.32
50	169	1460	18:15	33	1.090	A BV	26641.	35.352 NG	0.76
51	77	1465	18:19	33	1.094	A VB	100931.	39.117 NG	0.84
52	188	1601	20:01	52	1.000	A BV	77009.	40.000 NG	0.86
53	248	1523	19:02	52	0.951	A BB	19115.	61.585 NG	1.33
54	284	1547	19:20	52	0.966	A BB	22832.	61.496 NG	1.32
55	266	1582	19:46	52	0.988	A BV	10279.	66.283 NG	1.43
56	178	1605	20:04	52	1.002	A BV	101008.	47.762 NG	1.03
57	178	1613	20:10	52	1.007	A VB	99660.	53.057 NG	1.14
58	149	1720	21:30	52	1.074	A VV	149553.	44.407 NG	0.96
59	202	1821	22:46	52	1.137	A BV	109168.	51.343 NG	1.11
60	240	2083	26:02	60	1.000	A BV	58071.	40.000 NG	0.86
61	202	1861	23:16	60	0.893	A VV	111778.	46.038 NG	0.99
62	NOT FOUND	00							
63	149	1990	24:52	60	0.955	A BV	63886.	40.687 NG	0.88
64	NOT FOUND	00							
65	228	2080	26:00	60	0.999	A VV	88986.	45.078 NG	0.97
66	149	2104	26:18	60	1.010	A VV	89318.	41.250 NG	0.89
67	228	2088	26:06	60	1.002	A VV	97604.	50.751 NG	1.09
68	149	2244	28:03	60	1.077	A VV	138999.	40.958 NG	0.88
69	264	2416	30:12	69	1.000	A BV	70085.	40.000 NG	0.86
70	252	2327	29:05	69	0.963	A BV	93606.	48.432 NG	1.04
71	252	2333	29:10	69	0.966	A VV	86494.	40.735 NG	0.88
72	252	2425	30:19	69	1.004	A BV	87279.	45.390 NG	0.98
73	276	2899	36:14	69	1.200	A*VV	18345.	15.886 NG	0.34
74	278	2921	36:31	69	1.209	A BV	58891.	58.415 NG	1.26

025299

000000

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
75	276	3039	37:59	69	1.258	A*VV 37146	33435	65.018 NG	1.40
72	112	621	7:46	1	0.766	A BV 27720	24084	35.162 NG	0.76
74	99	767	9:35	17	0.748	A BV 37016	35798	39.396 NG	0.85
78	82	909	11:22	17	0.886	A BV	47353	42.274 NG	0.91
79	172	1221	15:16	17	1.190	A BB	69827	51.713 NG	1.11
80	330	1482	18:31	33	1.107	A BB	9238	60.419 NG	1.30
81	212	1857	23:13	60	0.892	A VV	97896	46.424 NG	1.00
82	244	1893	23:40	52	1.182	A BV	74856	56.091 NG	1.21

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:56	1.00	0.488	1.00	42.06	50.00	0.449	0.534	0.84
3	9:35	1.00	0.748	1.00	38.44	50.00	0.905	1.177	0.77
4	9:34		0.947			50.00		0.910	
5	9:43	1.00	0.960	1.00	42.69	50.00	0.992	1.162	0.85
6	9:46	1.00	0.967	1.00	46.08	50.00	0.720	0.782	0.92
7	10:02	1.00	0.993	1.00	51.05	50.00	0.876	0.858	1.02
8	10:09	1.00	1.004	1.00	51.24	50.00	0.961	0.938	1.02
9	10:30	1.00	1.038	1.00	34.87	50.00	0.367	0.526	0.70
10	10:31	1.00	1.041	1.00	49.48	50.00	0.828	0.837	0.99
11	10:46	1.00	1.066	1.00	42.51	50.00	0.675	0.794	0.85
12	10:49	1.00	1.069	1.00	48.01	50.00	0.284	0.295	0.96
13	11:05	1.00	1.096	1.00	45.66	50.00	0.735	0.805	0.91
14	11:06	1.00	1.098	1.00	46.55	50.00	0.156	0.167	0.93
15	11:09	1.00	1.103	1.00	46.73	50.00	0.406	0.434	0.93
16	11:22	1.00	1.125	1.00	45.08	50.00	0.379	0.420	0.90
17	12:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:52	1.00	0.927	1.00	39.99	50.00	0.790	0.988	0.80
7	12:03	1.00	0.940	1.00	47.49	50.00	0.191	0.201	0.95
20	12:11	1.00	0.951	1.00	44.87	50.00	0.321	0.358	0.90
21	12:23	1.00	0.967	1.00	40.92	50.00	0.469	0.573	0.82
22	12:40	1.00	0.989	1.00	77.27	250.00	0.101	0.326	0.31
23	12:34	1.00	0.980	1.00	50.18	50.00	0.277	0.276	1.00
24	12:43	1.00	0.993	1.00	54.45	50.00	0.339	0.311	1.09
25	12:51	1.00	1.003	1.00	48.64	50.00	1.111	1.142	0.97
26	13:05		1.021			250.00		0.254	
27	13:16	1.00	1.035	1.00	61.98	50.00	0.192	0.155	1.24
28	14:08	1.00	1.103	1.00	40.97	50.00	0.399	0.488	0.82
29	14:22	1.00	1.121	1.00	48.76	50.00	0.347	0.356	0.98
30	14:52	1.00	1.160	1.00	62.48	50.00	0.078	0.062	1.25
31	15:04	1.00	1.176	1.00	48.70	50.00	0.187	0.192	0.97
32	15:09	1.00	1.182	1.00	269.14	250.00	0.192	0.178	1.08
33	16:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	15:25	1.00	0.923	1.00	51.80	50.00	1.175	1.134	1.04
35	15:48	1.00	0.945	1.00	200.92	250.00	0.363	0.452	0.80
36	16:16	1.00	0.973	1.00	44.64	50.00	1.388	1.555	0.89
37	16:22	1.00	0.979	1.00	35.31	50.00	1.226	1.736	0.71
38	16:25	1.00	0.982	1.00	46.56	50.00	0.285	0.306	0.93
39	16:45	1.00	1.002	1.00	93.52	250.00	0.009	0.024	0.37
40	16:46	1.00	1.004	1.00	49.61	50.00	1.103	1.112	0.99
41	16:57	1.00	1.014	1.00	334.39	250.00	0.057	0.043	1.34
42	17:13	1.01	1.030	1.01	45.08	125.00	0.041	0.114	0.36
43	17:08	1.00	1.025	1.00	49.29	50.00	1.626	1.649	0.99
44	17:16	1.00	1.034	1.00	43.10	50.00	0.404	0.468	0.86
5	17:50	1.00	1.067	1.00	42.51	50.00	1.539	1.810	0.85
46	17:55	1.00	1.073	1.00	55.25	50.00	0.513	0.464	1.11

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:55	1.00	1.072	1.00	47.81	50.00	1.234	1.291	0.96
48	18:19	1.00	1.096	1.00	120.05	250.00	0.024	0.049	<u>0.48</u>
49	18:10	1.00	1.088	1.00	246.83	250.00	0.128	0.130	0.99
50	18:13	1.00	1.090	1.00	35.35	50.00	0.471	0.466	<u>0.71</u>
51	18:17	1.00	1.094	1.00	39.12	50.00	1.783	2.279	0.78
52	19:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	19:00	1.00	0.951	1.00	61.58	50.00	0.199	0.161	1.23
54	19:19	1.00	0.966	1.00	61.50	50.00	0.237	0.193	1.23
55	19:45	1.00	0.988	1.00	66.28	50.00	0.107	0.081	1.33
56	20:03	1.00	1.003	1.00	47.76	50.00	1.049	1.098	0.96
57	20:08	1.00	1.008	1.00	53.06	50.00	1.035	0.976	1.06
58	21:28	1.00	1.074	1.00	44.41	50.00	1.554	1.749	0.89
59	22:43	1.00	1.137	1.00	51.34	50.00	1.134	1.104	1.03
60	26:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	23:13	1.00	0.893	1.00	46.04	50.00	1.540	1.672	0.92
62	23:41		0.893			50.00		0.010	
63	24:50	1.00	0.955	1.00	40.69	50.00	0.880	1.082	0.81
64	26:34		1.001			50.00		0.035	
65	25:58	1.00	0.999	1.00	45.08	50.00	1.226	1.360	0.90
66	26:15	1.00	1.010	1.00	41.25	50.00	1.230	1.491	0.83
67	26:04	1.00	1.002	1.00	50.75	50.00	1.345	1.325	1.02
68	27:58	1.00	1.076	1.00	40.96	50.00	2.190	2.674	0.82
69	30:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	29:01	1.00	0.963	1.00	48.43	50.00	1.068	1.103	0.97
71	29:05	1.00	0.966	1.00	40.73	50.00	0.987	1.212	0.81
72	30:13	1.00	1.003	1.00	45.39	50.00	0.996	1.097	0.91
73	36:04	1.00	1.198	1.00	15.89	50.00	0.209	0.659	<u>0.32</u>
74	36:19	1.01	1.206	1.00	58.41	50.00	0.672	0.575	1.17
75	37:48	1.00	1.255	1.00	65.02	50.00	0.382	0.293	1.30
76	7:43	1.00	0.764	1.00	35.16	50.00	0.456	0.649	<u>0.70</u>
77	9:34	1.00	0.746	1.00	39.40	50.00	0.351	0.446	0.79
78	11:20	1.00	0.885	1.00	42.27	50.00	0.465	0.550	0.85
79	15:14	1.00	1.189	1.00	51.71	50.00	0.685	0.662	1.03
80	18:30	1.00	1.107	1.00	60.42	50.00	0.163	0.135	1.21
81	23:11	1.00	0.892	1.00	46.42	50.00	1.349	1.453	0.93
82	23:37	1.00	1.182	1.00	56.09	50.00	0.778	0.693	1.12

003301
025301

QUANTITATION REPORT FILE: HQB40201815

DATA: HQB40201815.TI

02/01/84 17:27:00

SAMPLE: 1UL FSCC7 STD 50NG 10914(2342)DN#15

SUBMITTED BY: 15

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-NITROSODIMETHYAMINE
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	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 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

mk
2342

000000

31 025302

NO NAME
 47 432 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'-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	811	10:08	1	1.000	A VB	42239.	40.000 NG	0.71
2	74	395	4:56	1	0.487	A BV	23711.	50.000 NG	0.89
3	94	769	9:37	1	0.948	A BB	51322.	50.000 NG	0.89
4	93	771	9:38	1	0.951	A BV	10871.	50.000 NG	0.89
5	93	779	9:44	1	0.961	A VV	52369.	50.000 NG	0.89
6	128	784	9:48	1	0.967	A BV	38038.	50.000 NG	0.89
7	146	805	10:04	1	0.993	A BV	46273.	50.000 NG	0.89
8	146	814	10:10	1	1.004	A VV	50757.	50.000 NG	0.89
9	108	842	10:31	1	1.038	A BV	19383.	50.000 NG	0.89
10	146	844	10:33	1	1.041	A BB	43728.	50.000 NG	0.89
11	108	864	10:48	1	1.065	A VV	35623.	50.000 NG	0.89
12	121	867	10:50	1	1.069	A BB	14970.	50.000 NG	0.89
13	108	889	11:07	1	1.096	A VV	38812.	50.000 NG	0.89
14	130	890	11:07	1	1.097	A BB	8219.	50.000 NG	0.89
15	117	894	11:10	1	1.102	A BB	21433.	50.000 NG	0.89
5	123	912	11:24	1	1.125	A BV	20004.	50.000 NG	0.89
7	126	1026	12:49	17	1.000	A BB	81539.	40.000 NG	0.71
18	82	952	11:54	17	0.928	A BV	80525.	50.000 NG	0.89

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
19	139	966	12:04	17	0.942	A BV	19459.	50.000 NG	0.89
20	122	976	12:12	17	0.951	A BV	32762.	50.000 NG	0.89
21	93	993	12:25	17	0.968	A BV	47796.	50.000 NG	0.89
22	105	1014	12:40	17	0.988	A BB	134723.	249.999 NG	4.45
23	162	1007	12:35	17	0.981	A BV	28242.	50.000 NG	0.89
24	180	1020	12:45	17	0.994	A BB	34574.	50.000 NG	0.89
25	128	1030	12:52	17	1.004	A BV	113259.	50.000 NG	0.89
26	127	1054	13:10	17	1.027	A BB	48461.	249.999 NG	4.45
27	225	1062	13:16	17	1.035	A BB	19610.	50.000 NG	0.89
28	107	1133	14:10	17	1.104	A BV	40718.	50.000 NG	0.89
29	115	1151	14:23	17	1.122	A BB	35349.	50.000 NG	0.89
30	237	1191	14:53	17	1.161	A BB	7953.	50.000 NG	0.89
31	196	1207	15:05	17	1.176	A BV	19028.	50.000 NG	0.89
32	196	1214	15:10	17	1.183	A VV	97720.	249.999 NG	4.45
33	164	1339	16:44	33	1.000	A BB	45279.	40.000 NG	0.71
34	162	1236	15:27	33	0.923	A BV	66511.	50.000 NG	0.89
35	138	1266	15:49	33	0.945	A BV	102747.	249.999 NG	4.45
36	163	1303	16:17	33	0.973	A BB	78545.	50.000 NG	0.89
37	152	1311	16:23	33	0.979	A BB	69392.	50.000 NG	0.89
38	165	1315	16:26	33	0.982	A BB	16140.	50.000 NG	0.89
39	138	1341	16:46	33	1.001	A*BV	2559.	249.999 NG	4.45
40	154	1344	16:48	33	1.004	A BB	62438.	50.000 NG	0.89
41	184	1358	16:58	33	1.014	A BV	16110.	249.999 NG	4.45
42	109	1389	17:22	33	1.037	A BB	13886.	125.000 NG	2.23
43	168	1373	17:10	33	1.025	A BV	92017.	50.000 NG	0.89
44	165	1384	17:18	33	1.034	A VB	22847.	50.000 NG	0.89
45	149	1429	17:52	33	1.067	A VV	87084.	50.000 NG	0.89
46	204	1436	17:57	33	1.072	A BB	29034.	50.000 NG	0.89
47	166	1434	17:55	33	1.071	A BB	69855.	50.000 NG	0.89
48	138	1466	18:19	33	1.095	A*VV	6713.	249.999 NG	4.45
49	198	1455	18:11	33	1.087	A VB	36336.	249.999 NG	4.45
50	169	1460	18:15	33	1.090	A BV	26641.	50.000 NG	0.89
51	77	1465	18:19	33	1.094	A VB	100931.	50.000 NG	0.89
52	188	1601	20:01	52	1.000	A BV	77009.	40.000 NG	0.71
53	248	1523	19:02	52	0.951	A BB	19115.	50.000 NG	0.89
54	284	1547	19:20	52	0.966	A BB	22832.	50.000 NG	0.89
55	266	1582	19:46	52	0.988	A BV	10279.	50.000 NG	0.89
56	178	1605	20:04	52	1.002	A BV	101008.	50.000 NG	0.89
57	178	1613	20:10	52	1.007	A VB	99660.	50.000 NG	0.89
58	149	1720	21:30	52	1.074	A VV	149553.	50.000 NG	0.89
59	202	1821	22:46	52	1.137	A BV	109168.	50.000 NG	0.89
60	240	2083	26:02	60	1.000	A BV	58071.	40.000 NG	0.71
61	202	1861	23:16	60	0.893	A VV	111778.	50.000 NG	0.89
62	NOT FOUND								
63	149	1990	24:52	60	0.955	A BV	63886.	50.000 NG	0.89
64	NOT FOUND								
65	228	2080	26:00	60	0.999	A VV	88986.	50.000 NG	0.89
66	149	2104	26:18	60	1.010	A VV	89318.	50.000 NG	0.89
67	228	2088	26:06	60	1.002	A VV	97604.	50.000 NG	0.89
68	149	2244	28:03	60	1.077	A VV	158999.	50.000 NG	0.89
69	264	2416	30:12	69	1.000	A BV	70085.	40.000 NG	0.71
70	252	2327	29:05	69	0.963	A BV	93606.	50.000 NG	0.89
71	252	2333	29:10	69	0.966	A VV	86494.	50.000 NG	0.89
72	252	2425	30:19	69	1.004	A BV	87279.	50.000 NG	0.89
73	276	2899	36:14	69	1.200	A BB	53848.	50.000 NG	0.89
74	278	2921	36:31	69	1.209	A BV	58891.	50.000 NG	0.89

025304
000000

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HOHT)	AMOUNT	%TOT
75	276	3039	37:59	69	1.258	A BB	37946.	50.000 NG	0.89
76	112	621	7:46	1	0.766	A BB	27720.	50.000 NG	0.89
77	99	767	9:35	17	0.748	A BV	37016.	50.000 NG	0.89
78	82	909	11:22	17	0.886	A BV	47353.	50.000 NG	0.89
79	172	1221	15:16	17	1.190	A BB	69827.	50.000 NG	0.89
80	330	1482	18:31	33	1.107	A BB	9238.	50.000 NG	0.89
81	212	1857	23:13	60	0.892	A VV	97896.	50.000 NG	0.89
82	244	1893	23:40	52	1.182	A BV	74856.	50.000 NG	0.89

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:56	1.00	0.487	1.00	50.00	50.00	0.449	0.449	1.00
3	9:37	1.00	0.948	1.00	50.00	50.00	0.972	0.972	1.00
4	9:38	1.00	0.951	1.00	50.00	50.00	0.206	0.206	1.00
5	9:44	1.00	0.961	1.00	50.00	50.00	0.992	0.992	1.00
6	9:48	1.00	0.967	1.00	50.00	50.00	0.720	0.720	1.00
7	10:04	1.00	0.993	1.00	50.00	50.00	0.876	0.876	1.00
8	10:10	1.00	1.004	1.00	50.00	50.00	0.961	0.961	1.00
9	10:31	1.00	1.038	1.00	50.00	50.00	0.367	0.367	1.00
10	10:33	1.00	1.041	1.00	50.00	50.00	0.828	0.828	1.00
11	10:48	1.00	1.065	1.00	50.00	50.00	0.675	0.675	1.00
12	10:50	1.00	1.069	1.00	50.00	50.00	0.284	0.284	1.00
13	11:07	1.00	1.096	1.00	50.00	50.00	0.735	0.735	1.00
14	11:07	1.00	1.097	1.00	50.00	50.00	0.156	0.156	1.00
15	11:10	1.00	1.102	1.00	50.00	50.00	0.406	0.406	1.00
16	11:24	1.00	1.125	1.00	50.00	50.00	0.379	0.379	1.00
17	12:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:54	1.00	0.928	1.00	50.00	50.00	0.790	0.790	1.00
19	12:04	1.00	0.942	1.00	50.00	50.00	0.191	0.191	1.00
20	12:12	1.00	0.951	1.00	50.00	50.00	0.321	0.321	1.00
21	12:25	1.00	0.968	1.00	50.00	50.00	0.469	0.469	1.00
22	12:40	1.00	0.988	1.00	250.00	250.00	0.264	0.264	1.00
23	12:35	1.00	0.981	1.00	50.00	50.00	0.277	0.277	1.00
24	12:45	1.00	0.994	1.00	50.00	50.00	0.339	0.339	1.00
25	12:52	1.00	1.004	1.00	50.00	50.00	1.111	1.111	1.00
26	13:10	1.00	1.027	1.00	250.00	250.00	0.095	0.095	1.00
27	13:16	1.00	1.035	1.00	50.00	50.00	0.192	0.192	1.00
28	14:10	1.00	1.104	1.00	50.00	50.00	0.399	0.399	1.00
29	14:23	1.00	1.122	1.00	50.00	50.00	0.347	0.347	1.00
30	14:53	1.00	1.161	1.00	50.00	50.00	0.078	0.078	1.00
31	15:05	1.00	1.176	1.00	50.00	50.00	0.187	0.187	1.00
32	15:10	1.00	1.183	1.00	250.00	250.00	0.192	0.192	1.00
33	16:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	15:27	1.00	0.923	1.00	50.00	50.00	1.175	1.175	1.00
35	15:49	1.00	0.945	1.00	250.00	250.00	0.363	0.363	1.00
36	16:17	1.00	0.973	1.00	50.00	50.00	1.388	1.388	1.00
37	16:23	1.00	0.979	1.00	50.00	50.00	1.226	1.226	1.00
38	16:26	1.00	0.982	1.00	50.00	50.00	0.285	0.285	1.00
39	16:46	1.00	1.001	1.00	250.00	250.00	0.009	0.009	1.00
40	16:48	1.00	1.004	1.00	50.00	50.00	1.103	1.103	1.00
41	16:58	1.00	1.014	1.00	250.00	250.00	0.057	0.057	1.00
42	17:22	1.00	1.037	1.00	125.00	125.00	0.098	0.098	1.00
43	17:10	1.00	1.025	1.00	50.00	50.00	1.626	1.626	1.00
44	17:18	1.00	1.034	1.00	50.00	50.00	0.404	0.404	1.00
45	17:52	1.00	1.067	1.00	50.00	50.00	1.539	1.539	1.00
46	17:57	1.00	1.072	1.00	50.00	50.00	0.513	0.513	1.00

025305

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:55	1.00	1.071	1.00	50.00	50.00	1.234	1.234	1.00
48	18:19	1.00	1.095	1.00	250.00	250.00	0.024	0.024	1.00
49	18:11	1.00	1.087	1.00	250.00	250.00	0.128	0.128	1.00
50	18:15	1.00	1.090	1.00	50.00	50.00	0.471	0.471	1.00
51	18:19	1.00	1.094	1.00	50.00	50.00	1.783	1.783	1.00
52	20:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	19:02	1.00	0.951	1.00	50.00	50.00	0.199	0.199	1.00
54	19:20	1.00	0.966	1.00	50.00	50.00	0.237	0.237	1.00
55	19:46	1.00	0.988	1.00	50.00	50.00	0.107	0.107	1.00
56	20:04	1.00	1.002	1.00	50.00	50.00	1.049	1.049	1.00
57	20:10	1.00	1.007	1.00	50.00	50.00	1.035	1.035	1.00
58	21:30	1.00	1.074	1.00	50.00	50.00	1.554	1.554	1.00
59	22:46	1.00	1.137	1.00	50.00	50.00	1.134	1.134	1.00
60	26:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	23:16	1.00	0.893	1.00	50.00	50.00	1.540	1.540	1.00
62	23:41		0.893			50.00		0.010	
63	24:52	1.00	0.955	1.00	50.00	50.00	0.880	0.880	1.00
64	26:34		1.001			50.00		0.035	
65	26:00	1.00	0.999	1.00	50.00	50.00	1.226	1.226	1.00
66	26:18	1.00	1.010	1.00	50.00	50.00	1.230	1.230	1.00
67	26:06	1.00	1.002	1.00	50.00	50.00	1.345	1.345	1.00
68	28:03	1.00	1.077	1.00	50.00	50.00	2.190	2.190	1.00
69	30:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	29:05	1.00	0.963	1.00	50.00	50.00	1.068	1.068	1.00
71	29:10	1.00	0.966	1.00	50.00	50.00	0.987	0.987	1.00
72	30:19	1.00	1.004	1.00	50.00	50.00	0.996	0.996	1.00
73	36:14	1.00	1.200	1.00	50.00	50.00	0.615	0.615	1.00
74	36:31	1.00	1.209	1.00	50.00	50.00	0.672	0.672	1.00
75	37:59	1.00	1.258	1.00	50.00	50.00	0.433	0.433	1.00
76	7:46	1.00	0.766	1.00	50.00	50.00	0.525	0.525	1.00
77	9:35	1.00	0.748	1.00	50.00	50.00	0.363	0.363	1.00
78	11:22	1.00	0.886	1.00	50.00	50.00	0.465	0.465	1.00
79	15:16	1.00	1.190	1.00	50.00	50.00	0.685	0.685	1.00
80	18:31	1.00	1.107	1.00	50.00	50.00	0.163	0.163	1.00
81	23:13	1.00	0.892	1.00	50.00	50.00	1.349	1.349	1.00
82	23:40	1.00	1.182	1.00	50.00	50.00	0.778	0.778	1.00

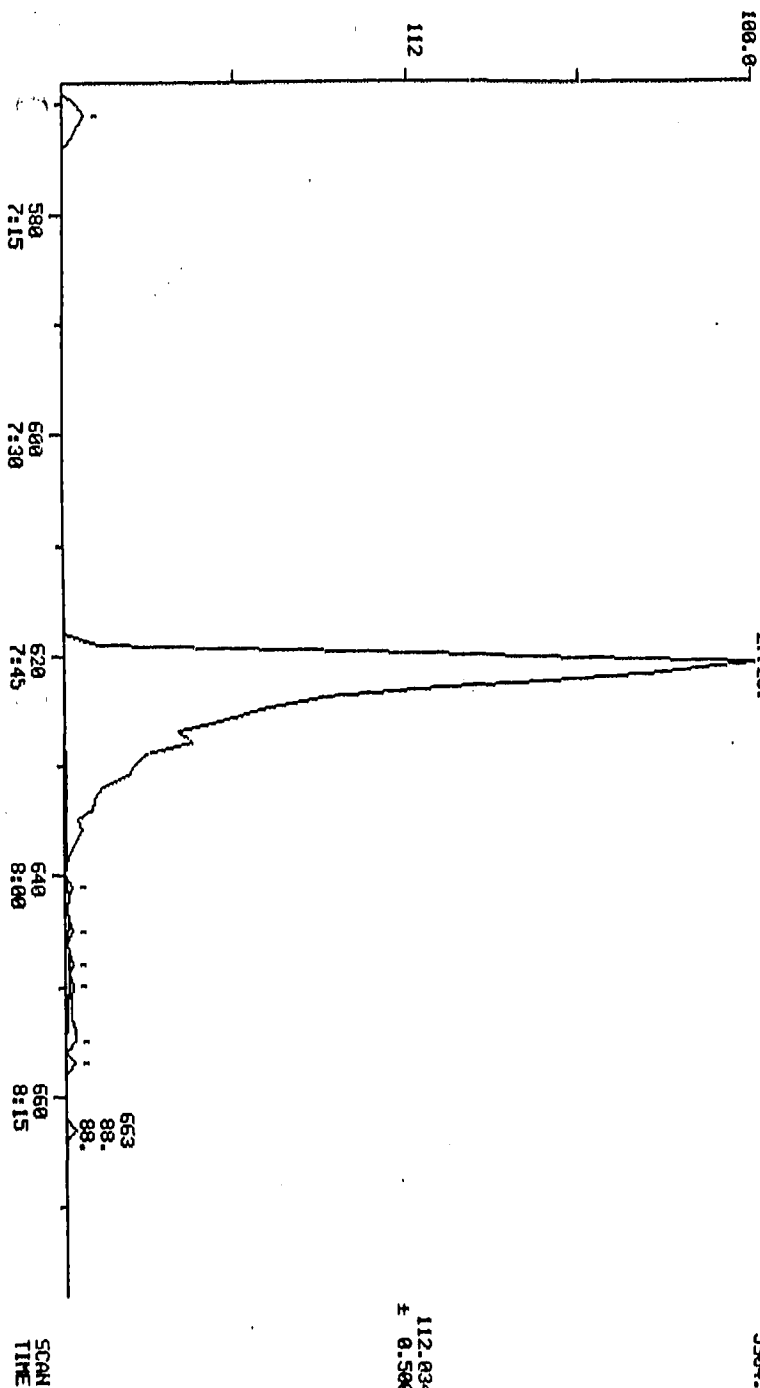
002006
025306

MASS CHROMATOGRAM
02/01/84 17:27:00
SAMPLE: IUL FSCC7 STD 50MG 10914(2342)0N#15
619 2-FLUOROPHENOL (SURROGATE)

HEAD COMPUCHEN
COMPUCHEN DATA: H0840201815 SCANS 568 TO 678

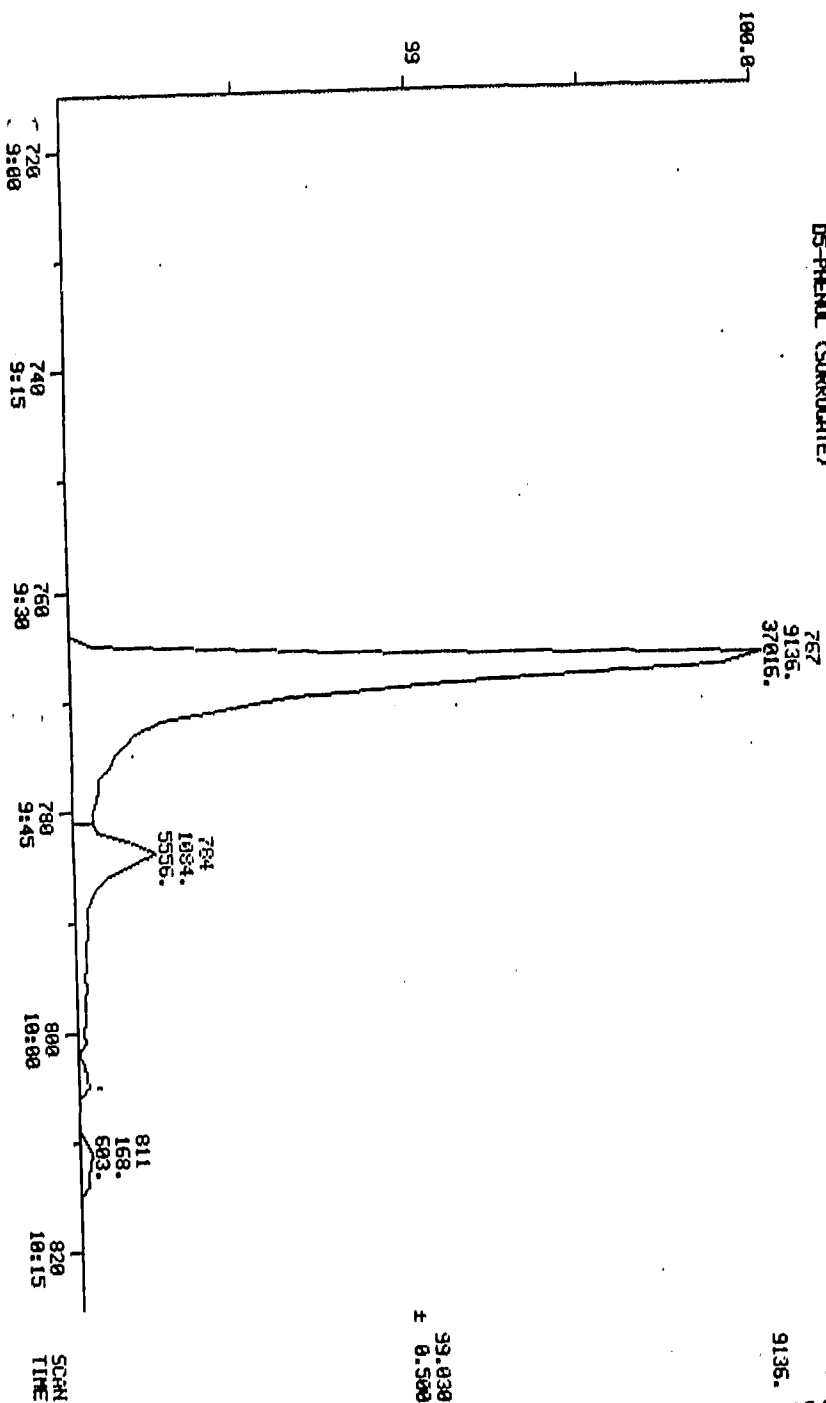
025307

5984.



MASS CHROMATOGRAM
02/01/84 17:27:00
SAMPLE: IUL FSCCT STD 50NG 10914(C2342)DN#15
DS-PHENOL (SURROGATE)

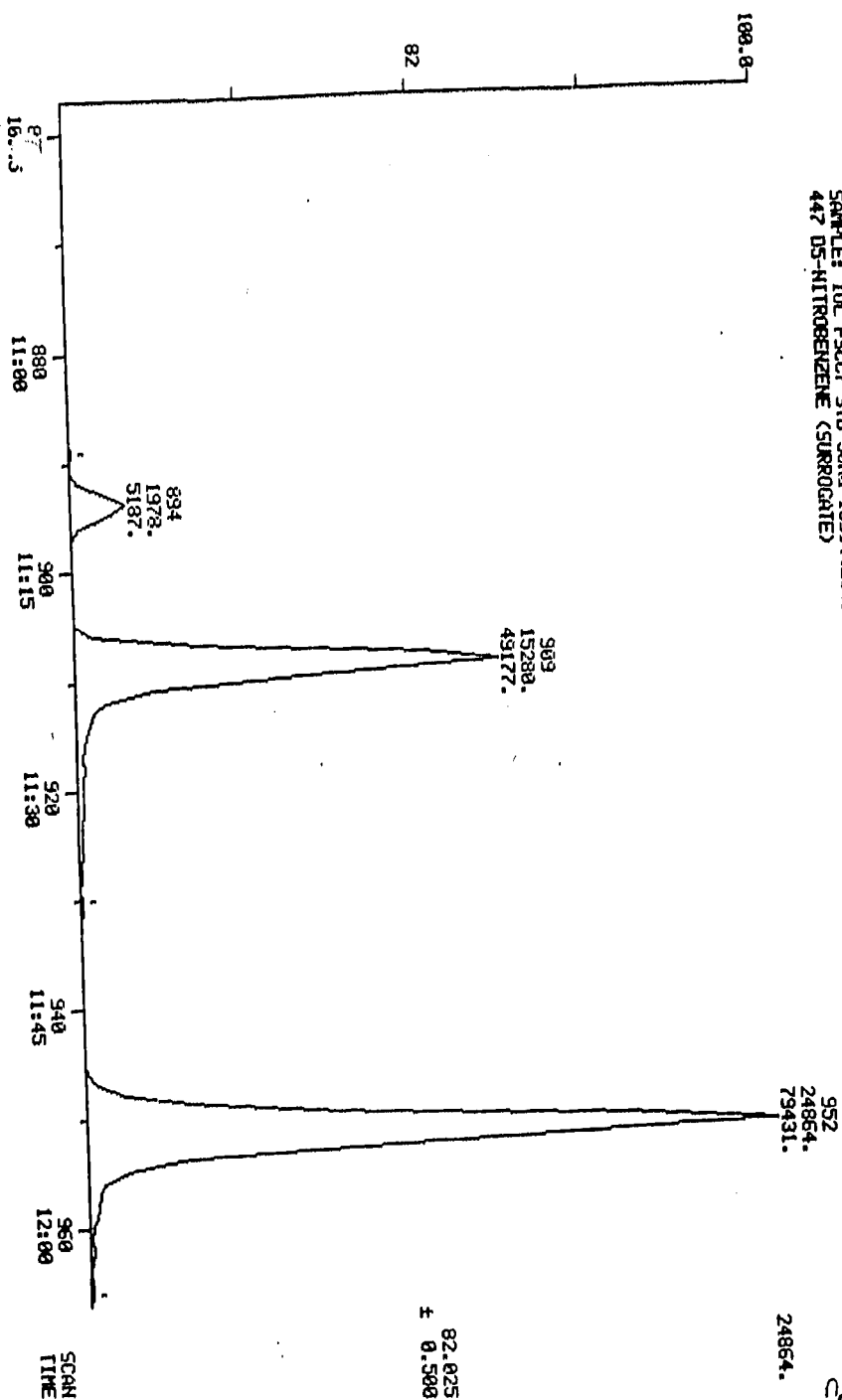
HEAD COMPUCHEN
COMPUCHEN DATA: HG840201B15 SCANS 715 TO 825



025308

MASS CHROMATOGRAM
 02/01/84 17:27:00
 SAMPLE: IUL FSCCT STD 50NG 10914(2342)DMR15
 447 DS-NITROBENZENE (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: H0840201B15 SCANS 857 TO 967



MASS CHROMATOGRAM
 02/01/84 17:27:00
 SAMPLE: ILL FSCC7 STD SANG 10914(2342)ON#15
 TRIBROMOPHENOL (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: HG840201B15 SCANS 1430 TO 1540

100.0

330

1482
 2724.
 9238.

2724.

330.899
 ± 0.500

1440 18:00
 1460 18:15
 1480 18:30
 1500 18:45
 1520 19:00
 1540 19:15
 SCAN
 TIME

31

025311

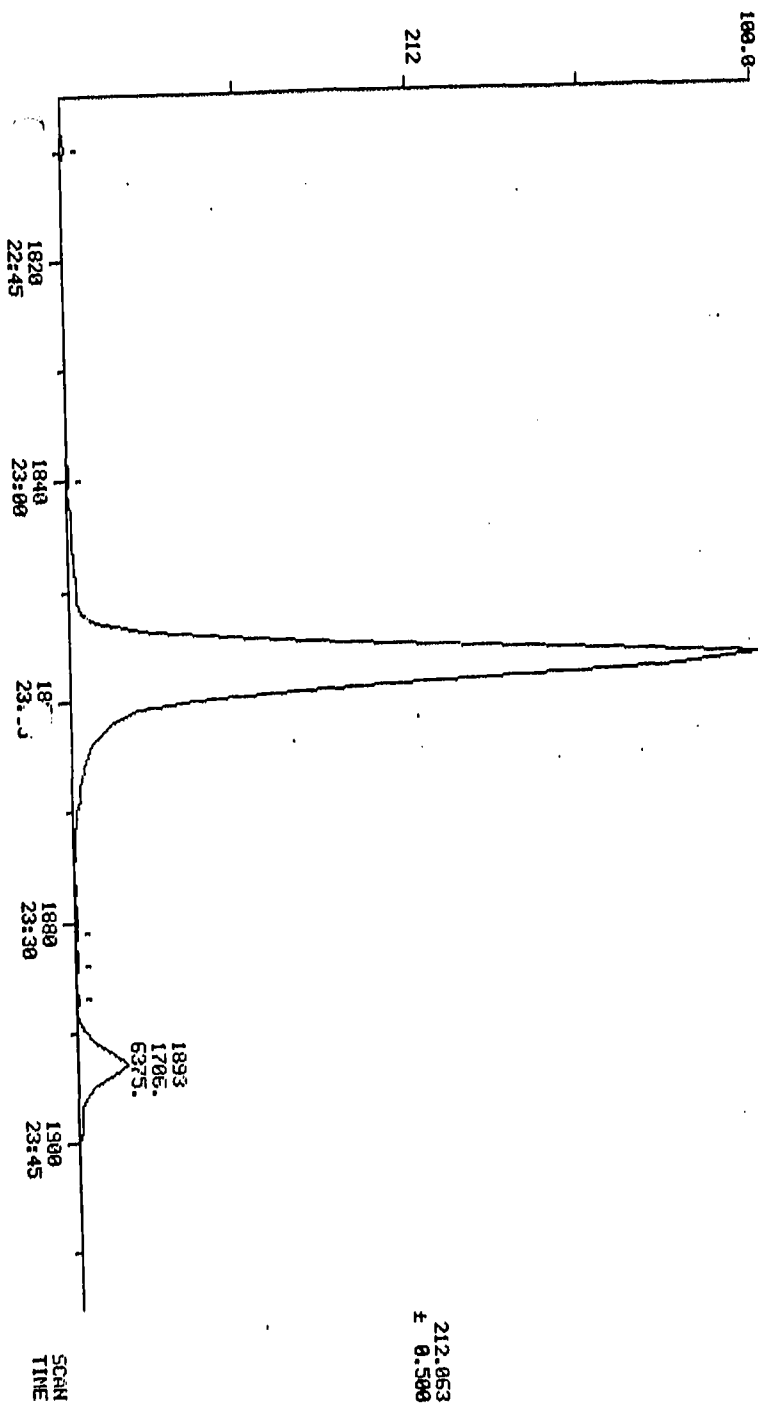
MASS CHROMATOGRAM
 8/28/84 17:27:00
 SAMPLE 10L FSCCT STD 50MG 10914(2342)ON#15
 D10-PYRENE (SURROGATE)

MEAD COMPUTHER
 COMPUTHER DATA: HC840201B15 SCANS 1805 TO 1915

1857
 23594.
 98687.

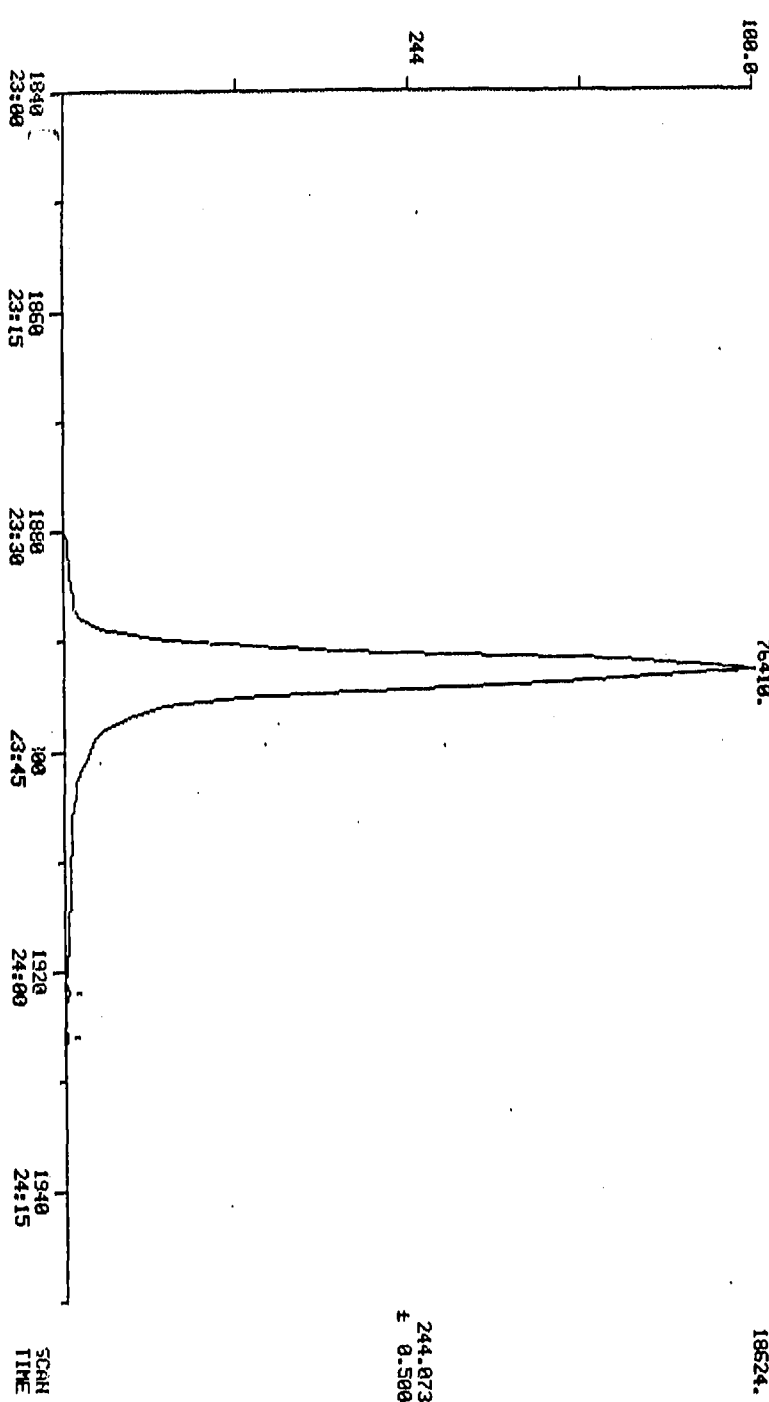
23584.

001000
 025312



MASS CHROMATOGRAM
 02/01/84 17:27:00
 SAMPLE: ILL. ESCCZ STD 50NG 10914(2342)ON#15
 D14-TERPHEYL (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: H0840201B15 SCANS 1840 TO 1950



1893
 18624.
 76410.

18624.

244.073
 ± 0.500

Mead ComputChem GC/MS Analysis Log

Initial Time of Run 16:46 Shift/Date
Time Run Elapsed 0:45
Analyt

Run Log

Press Hard, Multiple Copies

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	DH840201B15	✓		1.0	755		157	109111703
2	H6840201B15			1.0	755		157	10914(23
3	G-H019266B15	2333 R3509		"	"		11	109116
4	G-H019267B15	2333 R3511		"	"		"	
5	G-H019268B15	R3696		"	"		"	
6	G-H019269B15	R3698		"	"		"	
7	G-H019450B15			11	11		158	New Disc
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

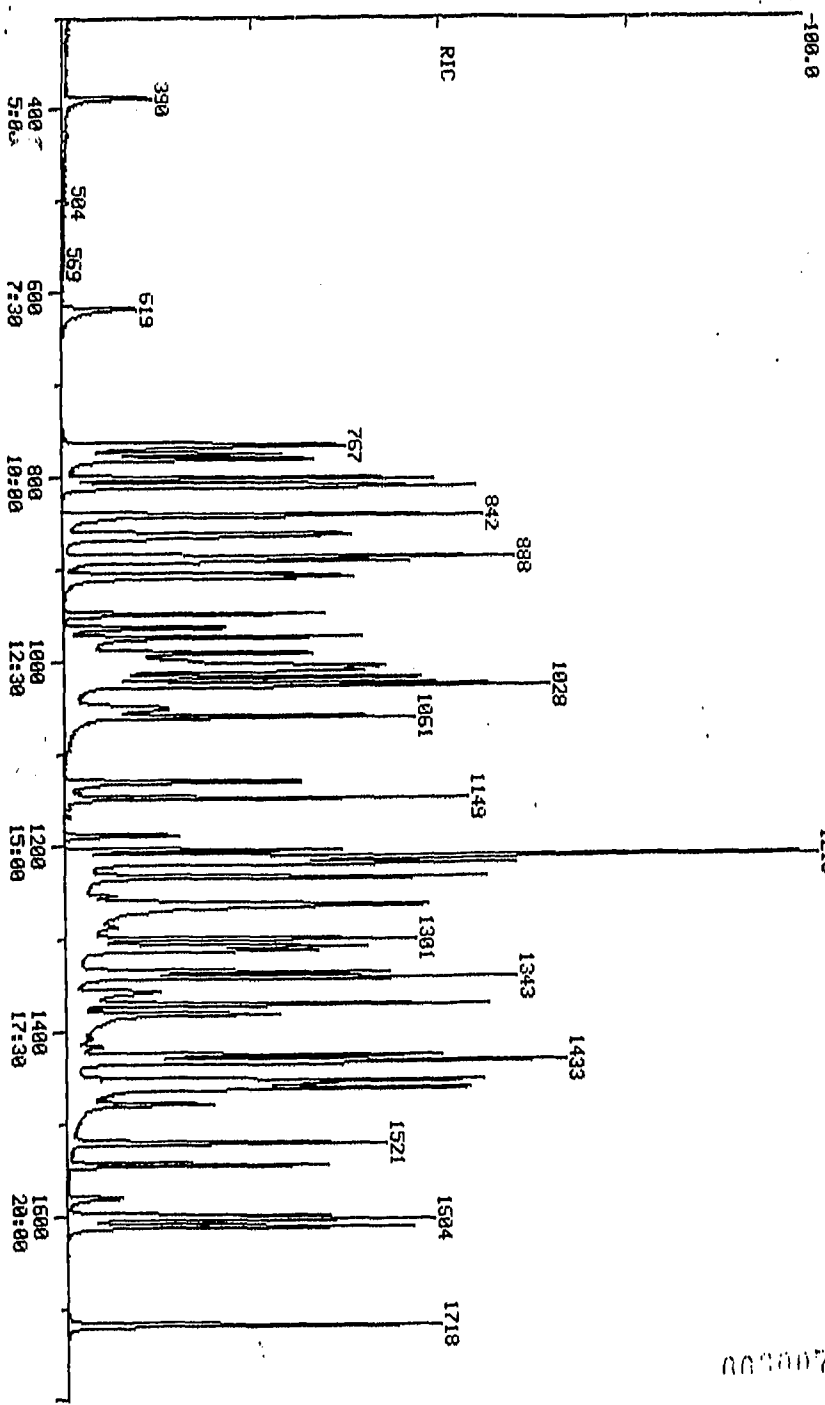
Initial Time of Tune
Time-Tune Elapse 16:41
0:46

Shift(s) (A) (B) ☒ (C)
Date 2/1/84
Analysis Type 75667

Press Hand, Multiple Copies

025315

3	Used		Amount injected	Operator	Tape No.	Disc. No.	COMMENTS
	Used	Not Used					
215	✓		1.0	755		157	10911 (7050
615			1.0	755		157	10914 (2342) B 500g
615	2333		"	"		"	10916 A033
715	2333		"	"		"	"
5815	2333		"	"		"	"
615	2333		"	"		"	"
5015	2333		"	"		158	New Disc



MEAD COMPUCHEN
 COMPUCHEN DATA: HG840202C15 SCANS 300 TO 1800
 OUT OF 300 TO 3200
 RIC
 02/02/84 1:59:08
 SAMPLE: 1.0 UL F50C STD.LOT#10914-2342(58NC).EXP.02-01-84

000007

025317

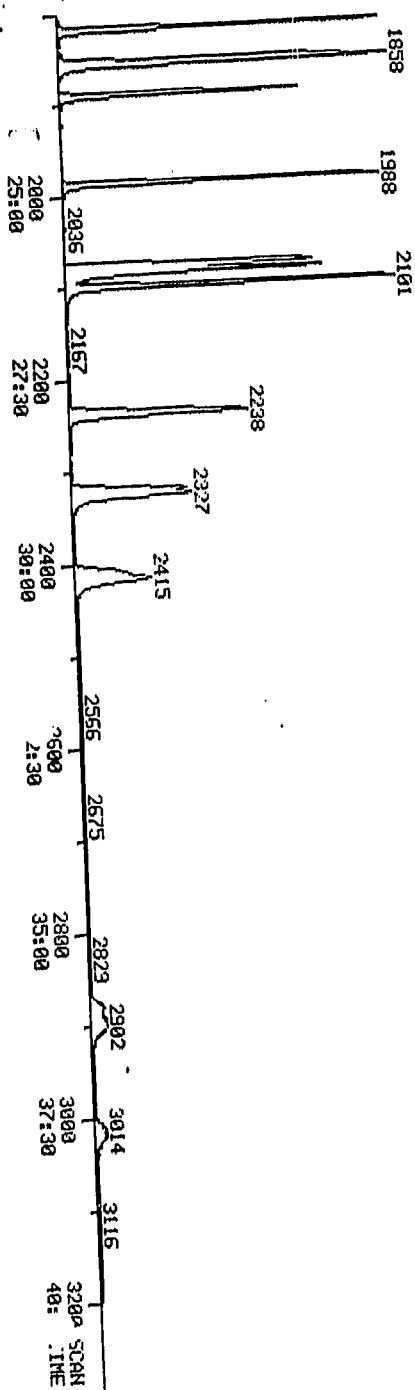
MEAD COMPUCHIE

COMPUCHIE DATA: HG840202C15 SCANS 1800 TO 3200
OUT OF 300 TO 3200

150784.

025318

RIC
02/02/84 1:59:00
SAMPLE: 1.0 UL FSCC STD.LOT#10914-2342(SRNG).EXP.02-01-84



PROCEDURE: RK
DATA FILE: HGB40202C15
REFERENCE: FS007
METHOD: FS007
REPORT: FS007S1

DIAGNOSTIC REPORT

2/02/84 2:48:08

< ---- STANDARDS ---- >< ---- PLUS UNKNOWNNS ---- >< - LIST NAMES - >
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
6 6 1 197 34 49 18 125 FS007S1/FS007U1
6 6 1 197 34 27 8 158 FS007S2/FS007U2

82 COMPOUNDS PROCESSED, 70 FOUND

< COMPOUND ><		SEARCH										>< SAT ><		>< CHRD ><	
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS			
1	C1	1	-811	810	809	-1	1	997	150	809	.	1			
2	C2	1	-1026	1025	1025	.	1	984	136	1025	.	1			
3	C3	1	-1337	1337	1337	.	1	998	164	1337	.	1			
4	C4	1	-1601	1598	1599	1	1	990	188	1599	.	1			
5	C5	1	-2083	2079	2081	2	1	935	240	2080	-1	1			
6	C6	1	-2416	2411	2408	-3	1	847	264	2408	.	1			
7	C1	2	-395	394	390	-4	1	989	74	390	.	1			
8	C1	3	-769	767	767	.	1	991	94	767	.	1			
9	C1	4	-771	769	.	.	.	.	93	769	.	2			
10	C1	5	-779	777	777	.	1	984	93	777	.	1			
11	C1	6	-784	782	782	.	1	996	128	782	.	1			
12	C1	7	-805	803	803	.	1	992	146	803	.	1			
13	C1	8	-814	812	812	.	1	995	146	812	.	1			
14	C1	9	-842	840	.	.	.	.	108	840	.	1			
15	C1	10	-844	842	842	.	1	994	146	842	.	1			
16	C1	11	-864	862	862	.	1	992	108	862	.	1			
7	C1	12	-867	865	.	.	.	.	121	865	.	1			
18	C1	13	-889	887	887	.	1	995	108	887	.	1			
19	C1	14	-890	888	888	.	1	991	130	888	.	1			
20	C1	15	-894	892	892	.	1	988	117	892	.	1			
21	C1	16	-912	910	910	.	1	992	123	910	.	1			
22	C2	2	-952	950	950	.	1	983	82	950	.	1			
23	C2	3	-966	964	964	.	1	991	139	964	.	1			
24	C2	4	-976	974	975	1	1	994	122	975	.	1			
25	C2	5	-993	991	992	1	1	979	93	991	-1	1			
26	C2	6	-1014	1012	1012	.	3	985	105	1012	.	1			
27	C2	7	-1007	1005	1006	1	1	964	162	1006	.	1			
28	C2	8	-1020	1018	1018	.	1	994	180	1018	.	1			
29	C2	9	-1030	1028	1028	.	1	997	128	1028	.	1			
30	C2	10	-1054	1052	1053	1	1	996	127	1051	-2	2			
31	C2	11	-1062	1060	1061	1	1	995	225	1061	.	1			
32	C2	12	-1133	1131	1131	.	1	998	107	1131	.	1			
33	C2	13	-1151	1149	1149	.	1	996	115	1149	.	1			
34	C2	14	-1191	1189	1190	1	1	956	237	1190	.	1			
35	C2	15	-1207	1205	1206	1	1	996	196	1206	.	1			
36	C2	16	-1214	1212	1213	1	2	988	196	1212	-1	1			
37	C3	2	-1236	1234	1235	1	1	989	162	1235	.	1			
38	C3	3	-1266	1264	1264	.	1	993	138	1264	.	1			
39	C3	4	-1303	1301	1301	.	1	991	163	1301	.	1			
40	C3	5	-1311	1309	1309	.	1	996	152	1309	.	1			
41	C3	6	-1315	1313	1313	.	1	995	165	1313	.	1			
42	C3	7	-1341	1339	.	.	.	.	138	1342	.	1			
3	C3	8	-1344	1342	1343	1	1	989	154	1343	.	1			
44	C3	9	-1358	1356	1358	2	3	969	184	1358	.	1			
45	C3	10	-1389	1387	1383	-4	1	667	109	1385	319	1			
46	C3	11	-1373	1371	1371	.	1	978	168	1371	.	1			
47	C3	12	-1384	1382	1382	.	1	988	165	1382	.	1			
48	C3	13	-1429	1427	1427	.	1	994	149	1427	.	1			
49	C3	14	-1436	1434	1435	1	1	928	204	1435	.	1			

51	C3	16	-1466	1464					138	1467		1
52	C3	17	-1455	1453	1454	1	1	992	198	1454		1
53	C3	18	-1460	1458	1458		1	862	169	1458		1
54	C3	19	-1465	1463	1463		1	989	77	1463		1
55	C4	2	-1523	1521	1521		1	980	248	1521		1
56	C4	3	-1547	1545	1545		1	982	284	1545		1
57	C4	4	-1582	1579	1581	2	1	953	266	1580	-1	1
58	C4	5	-1605	1602	1604	2	2	994	178	1604		1
59	C4	6	-1613	1610	1612	2	2	998	178	1612		1
60	C4	7	-1720	1717	1718	1	1	964	149	1718		1
61	C4	8	-1821	1818	1818		1	995	202	1818		1
62	C5	2	-1861	1858	1858		1	992	202	1858		1
63	C5	3							184			
64	C5	4	-1990	1986	1988	2	1	979	149	1988		1
65	C5	5							252			
66	C5	6	-2080	2076	2077	1	1	964	228	2077		1
67	C5	7	-2104	2100	2101	1	1	913	149	2101		1
68	C5	8	-2088	2084	2085	1	1	990	228	2085		1
69	C5	9	-2244	2239	2238	-1	1	976	149	2238		1
70	C6	2	-2327	2322	2321	-1	2	950	252	2321		1
71	C6	3	-2333	2328	2327	-1	1	925	252	2326	-1	1
72	C6	4	-2425	2420	2416	-4	1	913	252	2416		1
73	C6	5	-2899	2893					276	2893		2
74	C6	6	-2921	2914					278	2915		1
75	C6	7	-3039	3032					276	3034		1
76	C7	2	-621	621	619	-2	1	987	112	619		1
77	C7	3	-767	767					99	765		1
78	C7	4	-909	908	907	-1	1	994	82	907		1
79	C7	5	-1221	1220	1220		1	987	172	1220		1
80	C7	6	-1482	1480	1480		1	969	330	1480		1
81	C7	7	-1857	1854					212	1855		1
82	C7	8	-1893	1890	1891	1	1	992	244	1891		1

009010

QUANTITATION REPORT FILE: H0840202C15

DATA: H0840202C15.TI

02/02/84 1:59:00

SAMPLE: 1.0 UL FSCC STD. LOT#10914-2342(50NG). EXP. 02-01-84

SUBMITTED BY: DWA#15 ANALYST: 602

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

NO	NAME
1	*D4-1,4-DICHLOROBENZENE (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-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 HEXACHLOROCCYCLOPENTADIENE
31	611 2,4,6-TRICHLOROPHENOL
32	626 2,4,5-TRICHLOROPHENOL
33	*D10-ACENAPHTHENE (IS)
34	414 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

000000

NO NAME
 47 432 FLUORENE
 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'-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:
 2-2-84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
1	150	809	10:07	1	1.000	A VB	39659.	40.000 NG	0.71
2	74	390	4:52	1	0.482	A BV	21626.	50.000 NG	0.89
3	94	767	9:35	1	0.948	A BV	42817.	50.000 NG	0.89
4	93	769	9:37	1	0.951	A*BV	13150.	50.000 NG	0.89
5	92	777	9:43	1	0.960	A VV	48778.	50.000 NG	0.89
6	128	782	9:46	1	0.967	A BV	35994.	50.000 NG	0.89
7	146	803	10:02	1	0.993	A BV	41896.	50.000 NG	0.89
8	146	812	10:09	1	1.004	A VV	46159.	50.000 NG	0.89
9	108	840	10:30	1	1.038	A BV	14407.	50.000 NG	0.89
10	146	842	10:31	1	1.041	A BV	42164.	50.000 NG	0.89
11	108	862	10:46	1	1.066	A VV	34503.	50.000 NG	0.89
12	121	865	10:49	1	1.069	A BB	13934.	50.000 NG	0.89
13	108	887	11:05	1	1.096	A BV	35079.	50.000 NG	0.89
14	130	888	11:06	1	1.098	A BB	7471.	50.000 NG	0.89
15	117	892	11:09	1	1.103	A BB	21217.	50.000 NG	0.89
16	123	910	11:22	1	1.125	A BB	18216.	50.000 NG	0.89
17	136	1025	12:49	17	1.000	A BB	76998.	40.000 NG	0.71
18	82	950	11:52	17	0.927	A BV	77615.	50.000 NG	0.89

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
19	139	964	12:03	17	0.940	A BV	18272.	50.000 NG	0.89
20	122	975	12:11	17	0.951	A BB	30621.	50.000 NG	0.89
	93	991	12:23	17	0.967	A BV	45242.	50.000 NG	0.89
22	105	1012	12:39	17	0.987	A BV	107930.	249.999 NG	4.45
23	162	1006	12:34	17	0.981	A BB	26465.	50.000 NG	0.89
24	180	1018	12:43	17	0.993	A BB	32369.	50.000 NG	0.89
25	128	1028	12:51	17	1.003	A BB	109853.	50.000 NG	0.89
26	127	1091	13:08	17	1.025	A*BV	61337.	249.999 NG	4.45
27	225	1061	13:16	17	1.035	A BB	17654.	50.000 NG	0.89
28	107	1131	14:08	17	1.103	A BV	38885.	50.000 NG	0.89
29	115	1149	14:22	17	1.121	A BB	34261.	50.000 NG	0.89
30	237	1190	14:32	17	1.161	A BB	7195.	50.000 NG	0.89
31	196	1206	15:04	17	1.177	A BV	16824.	50.000 NG	0.89
32	196	1212	15:09	17	1.182	A VV	86804.	249.999 NG	4.45
33	164	1337	16:43	33	1.000	A BB	41581.	40.000 NG	0.71
34	162	1235	15:26	33	0.924	A BB	60016.	50.000 NG	0.89
35	138	1264	15:48	33	0.945	A BV	87847.	249.999 NG	4.45
36	163	1301	16:16	33	0.973	A BB	72308.	50.000 NG	0.89
37	152	1309	16:22	33	0.979	A BB	75517.	50.000 NG	0.89
38	165	1313	16:25	33	0.982	A BB	14652.	50.000 NG	0.89
39	138	1342	16:46	33	1.004	A BV	2839.	249.999 NG	4.45
40	154	1343	16:47	33	1.004	A BB	58600.	50.000 NG	0.89
41	184	1358	16:58	33	1.016	A BV	9582.	249.999 NG	4.45
42	109	1384	17:18	33	1.035	A BV	2633.	125.000 NG	2.23
43	168	1371	17:08	33	1.025	A BV	86144.	50.000 NG	0.89
44	165	1382	17:16	33	1.034	A BV	19979.	50.000 NG	0.89
45	149	1427	17:50	33	1.067	A BV	80809.	50.000 NG	0.89
	204	1435	17:56	33	1.073	A BB	25877.	50.000 NG	0.89
	166	1433	17:55	33	1.072	A BB	65684.	50.000 NG	0.89
48	138	1467	18:20	33	1.097	A*VV	6400.	249.999 NG	4.45
49	198	1454	18:10	33	1.088	A BV	33628.	249.999 NG	4.45
50	169	1458	18:13	33	1.091	A BB	30184.	50.000 NG	0.89
51	77	1463	18:17	33	1.094	A VV	100376.	50.000 NG	0.89
52	188	1599	19:59	52	1.000	A BV	68168.	40.000 NG	0.71
53	248	1521	19:01	52	0.951	A BB	15542.	50.000 NG	0.89
54	284	1545	19:19	52	0.966	A BB	18936.	50.000 NG	0.89
55	266	1580	19:45	52	0.988	A BV	7326.	50.000 NG	0.89
56	178	1604	20:03	52	1.003	A BV	89849.	50.000 NG	0.89
57	178	1612	20:09	52	1.008	A VV	87877.	50.000 NG	0.89
58	149	1718	21:28	52	1.074	A VV	133903.	50.000 NG	0.89
59	202	1818	22:43	52	1.137	A BV	95273.	50.000 NG	0.89
60	240	2080	26:00	60	1.000	A BV	46723.	40.000 NG	0.71
61	202	1858	23:13	60	0.893	A VV	93462.	50.000 NG	0.89
62	NOT FOUND								
63	149	1988	24:51	60	0.956	A BB	53123.	50.000 NG	0.89
64	NOT FOUND								
65	228	2077	25:58	60	0.999	A BV	67006.	50.000 NG	0.89
66	149	2101	26:16	60	1.010	A VV	75816.	50.000 NG	0.89
67	228	2085	26:04	60	1.002	A VV	82151.	50.000 NG	0.89
68	149	2238	27:58	60	1.076	A BV	128247.	50.000 NG	0.89
69	264	2408	30:06	69	1.000	A BB	40483.	40.000 NG	0.71
70	252	2321	29:01	69	0.964	A BV	60100.	50.000 NG	0.89
71	252	2326	29:04	69	0.966	A VV	59839.	50.000 NG	0.89
	252	2416	30:12	69	1.003	A BV	52621.	50.000 NG	0.89
	276	2879	35:59	69	1.196	A*BB	23806.	50.000 NG	0.89
74	278	2901	36:16	69	1.205	A*BB	16808.	50.000 NG	0.89

000000 025323

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	276	3015	37:41	69	1.252	A*BB	15458.	50.000 NG	0.89
5	112	619	7:44	1	0.765	A BV	24324.	50.000 NG	0.89
7	99	765	9:34	17	0.746	A BV	32863.	50.000 NG	0.89
78	82	907	11:20	17	0.885	A BV	44731.	50.000 NG	0.89
79	172	1220	15:15	17	1.190	A BV	64808.	50.000 NG	0.89
80	330	1480	18:30	33	1.107	A BB	7433.	50.000 NG	0.89
81	212	1855	23:11	60	0.892	A VV	84220.	50.000 NG	0.89
82	244	1891	23:38	52	1.183	A VV	63064.	50.000 NG	0.89

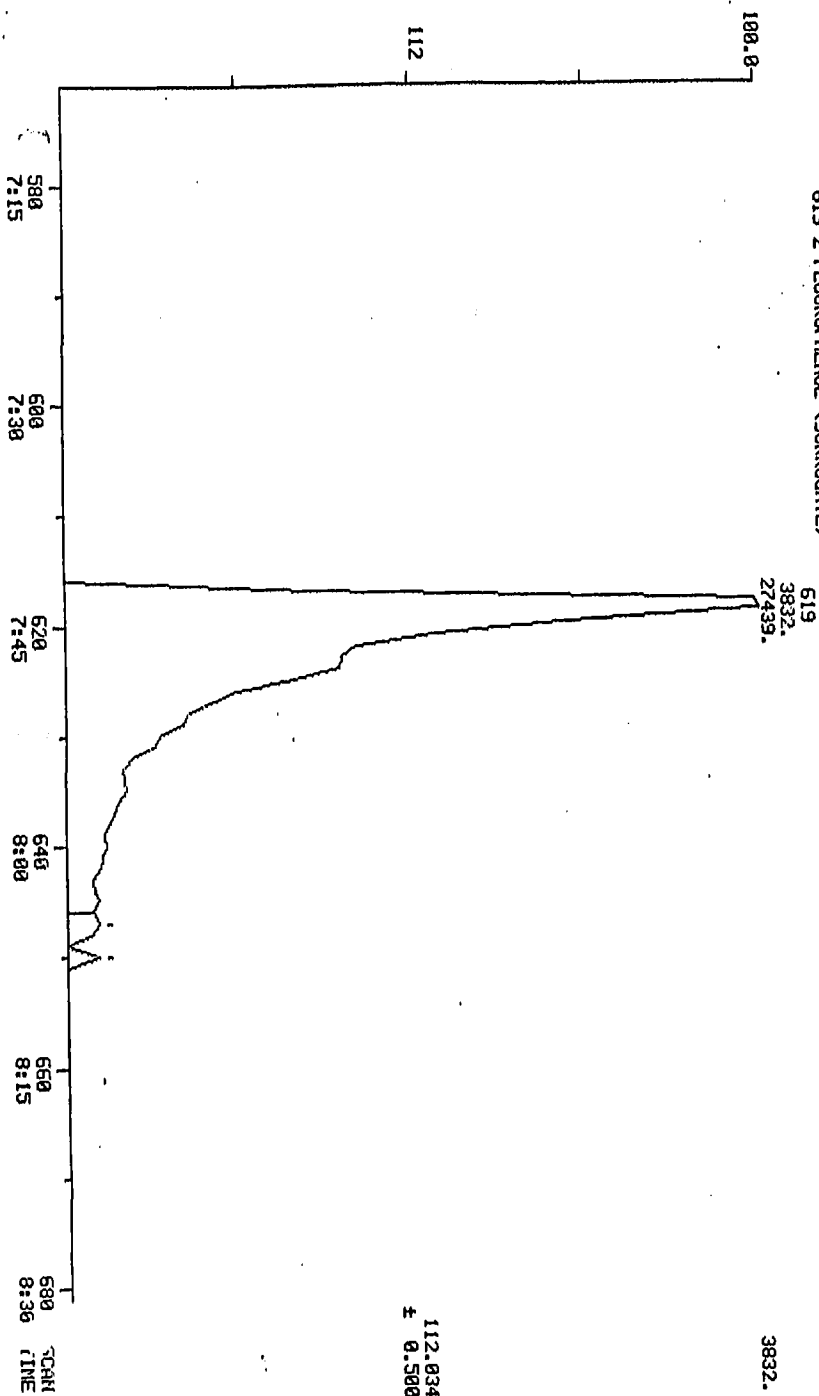
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:52	1.00	0.482	1.00	50.00	50.00	0.436	0.436	1.00
3	9:35	1.00	0.948	1.00	50.00	50.00	0.864	0.864	1.00
4	9:37	1.00	0.951	1.00	50.00	50.00	0.265	0.265	1.00
5	9:43	1.00	0.960	1.00	50.00	50.00	0.984	0.984	1.00
6	9:46	1.00	0.967	1.00	50.00	50.00	0.726	0.726	1.00
7	10:02	1.00	0.993	1.00	50.00	50.00	0.845	0.845	1.00
8	10:09	1.00	1.004	1.00	50.00	50.00	0.931	0.931	1.00
9	10:30	1.00	1.038	1.00	50.00	50.00	0.291	0.291	1.00
10	10:31	1.00	1.041	1.00	50.00	50.00	0.851	0.851	1.00
11	10:46	1.00	1.066	1.00	50.00	50.00	0.676	0.676	1.00
12	10:49	1.00	1.069	1.00	50.00	50.00	0.281	0.281	1.00
13	11:05	1.00	1.096	1.00	50.00	50.00	0.708	0.708	1.00
14	11:06	1.00	1.098	1.00	50.00	50.00	0.151	0.151	1.00
15	11:09	1.00	1.103	1.00	50.00	50.00	0.428	0.428	1.00
16	11:22	1.00	1.125	1.00	50.00	50.00	0.367	0.367	1.00
17	12:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	11:52	1.00	0.927	1.00	50.00	50.00	0.806	0.806	1.00
19	12:03	1.00	0.940	1.00	50.00	50.00	0.190	0.190	1.00
20	12:11	1.00	0.951	1.00	50.00	50.00	0.318	0.318	1.00
21	12:23	1.00	0.967	1.00	50.00	50.00	0.470	0.470	1.00
22	12:39	1.00	0.987	1.00	250.00	250.00	0.224	0.224	1.00
23	12:34	1.00	0.981	1.00	50.00	50.00	0.275	0.275	1.00
24	12:43	1.00	0.993	1.00	50.00	50.00	0.336	0.336	1.00
25	12:51	1.00	1.003	1.00	50.00	50.00	1.141	1.141	1.00
26	13:08	1.00	1.025	1.00	250.00	250.00	0.127	0.127	1.00
27	13:16	1.00	1.035	1.00	50.00	50.00	0.183	0.183	1.00
28	14:08	1.00	1.103	1.00	50.00	50.00	0.404	0.404	1.00
29	14:22	1.00	1.121	1.00	50.00	50.00	0.356	0.356	1.00
30	14:52	1.00	1.161	1.00	50.00	50.00	0.075	0.075	1.00
31	15:04	1.00	1.177	1.00	50.00	50.00	0.175	0.175	1.00
32	15:09	1.00	1.182	1.00	250.00	250.00	0.180	0.180	1.00
33	16:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	15:26	1.00	0.924	1.00	50.00	50.00	1.155	1.155	1.00
35	15:48	1.00	0.945	1.00	250.00	250.00	0.338	0.338	1.00
36	16:16	1.00	0.973	1.00	50.00	50.00	1.391	1.391	1.00
37	16:22	1.00	0.979	1.00	50.00	50.00	1.453	1.453	1.00
38	16:25	1.00	0.982	1.00	50.00	50.00	0.282	0.282	1.00
39	16:46	1.00	1.004	1.00	250.00	250.00	0.011	0.011	1.00
40	16:47	1.00	1.004	1.00	50.00	50.00	1.127	1.127	1.00
41	16:58	1.00	1.016	1.00	250.00	250.00	0.037	0.037	1.00
42	17:18	1.00	1.035	1.00	125.00	125.00	0.020	0.020	1.00
43	17:08	1.00	1.025	1.00	50.00	50.00	1.657	1.657	1.00
4	17:16	1.00	1.034	1.00	50.00	50.00	0.384	0.384	1.00
45	17:50	1.00	1.067	1.00	50.00	50.00	1.555	1.555	1.00
46	17:56	1.00	1.073	1.00	50.00	50.00	0.498	0.498	1.00

003011 025324

025325

MASS CHROMATOGRAM
02/02/84 1:53:00
SAMPLE: 1.0 UL F50C STD.LOT#10914-2342(50NG).EXP.02-01-84
619 2-FLUOROPHENOL (SURROGATE)

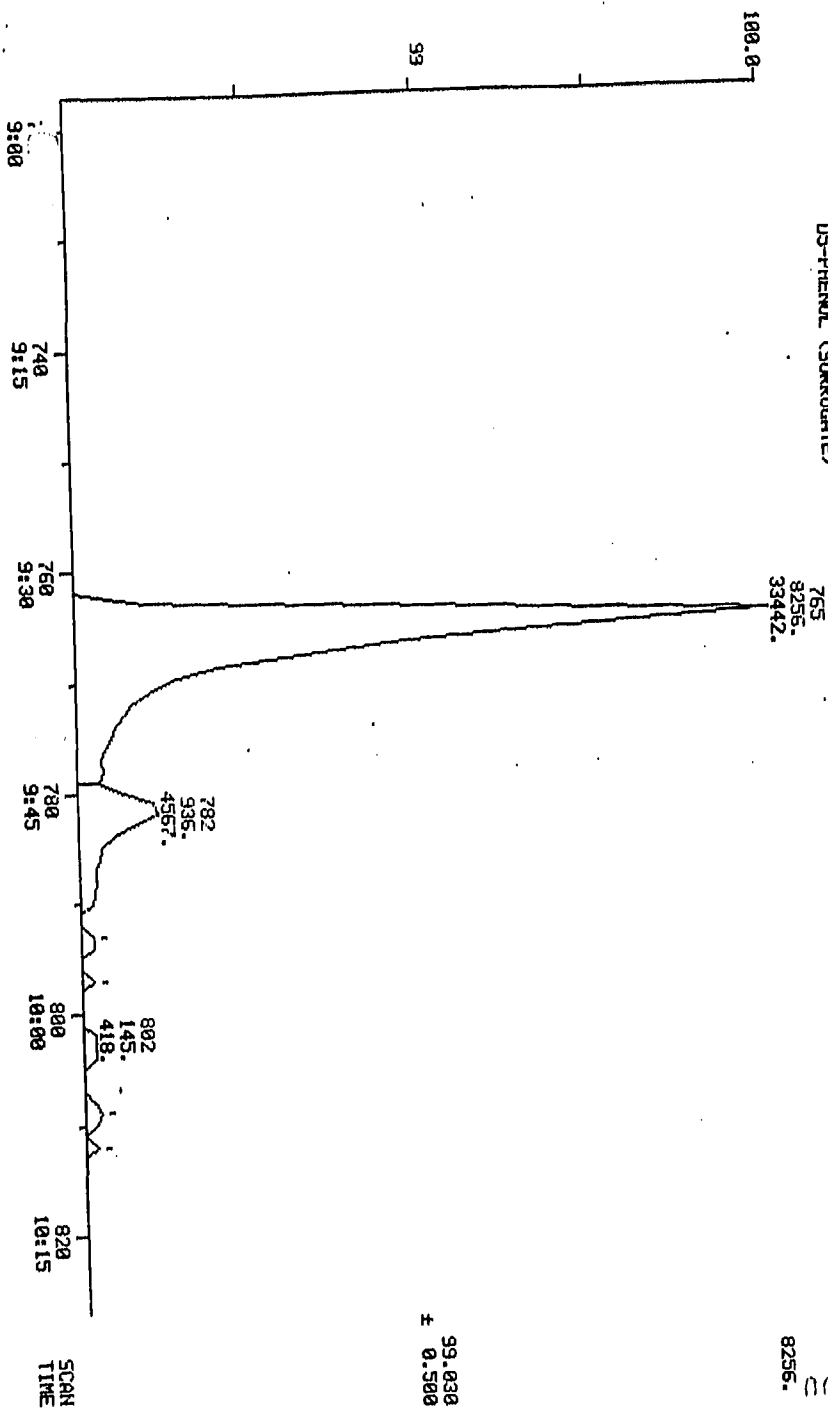
HEAD COMPUCHEN
COMPUCHEN DATA: HGB40202C15 SCANS 571 TO 681



00025326

MASS CHROMATOGRAM
 02/02/84 1:59:00
 SAMPLE: 1.0 UL F5CC STD.LOT#10914-2342(50MG).EXP.02-01-84
 DS-PHENOL (SURROGATE)

MEAD COMPUCHEN
 COMPUCHEN DATA: HC840202C15 SCANS 717 TO 827



0000025327

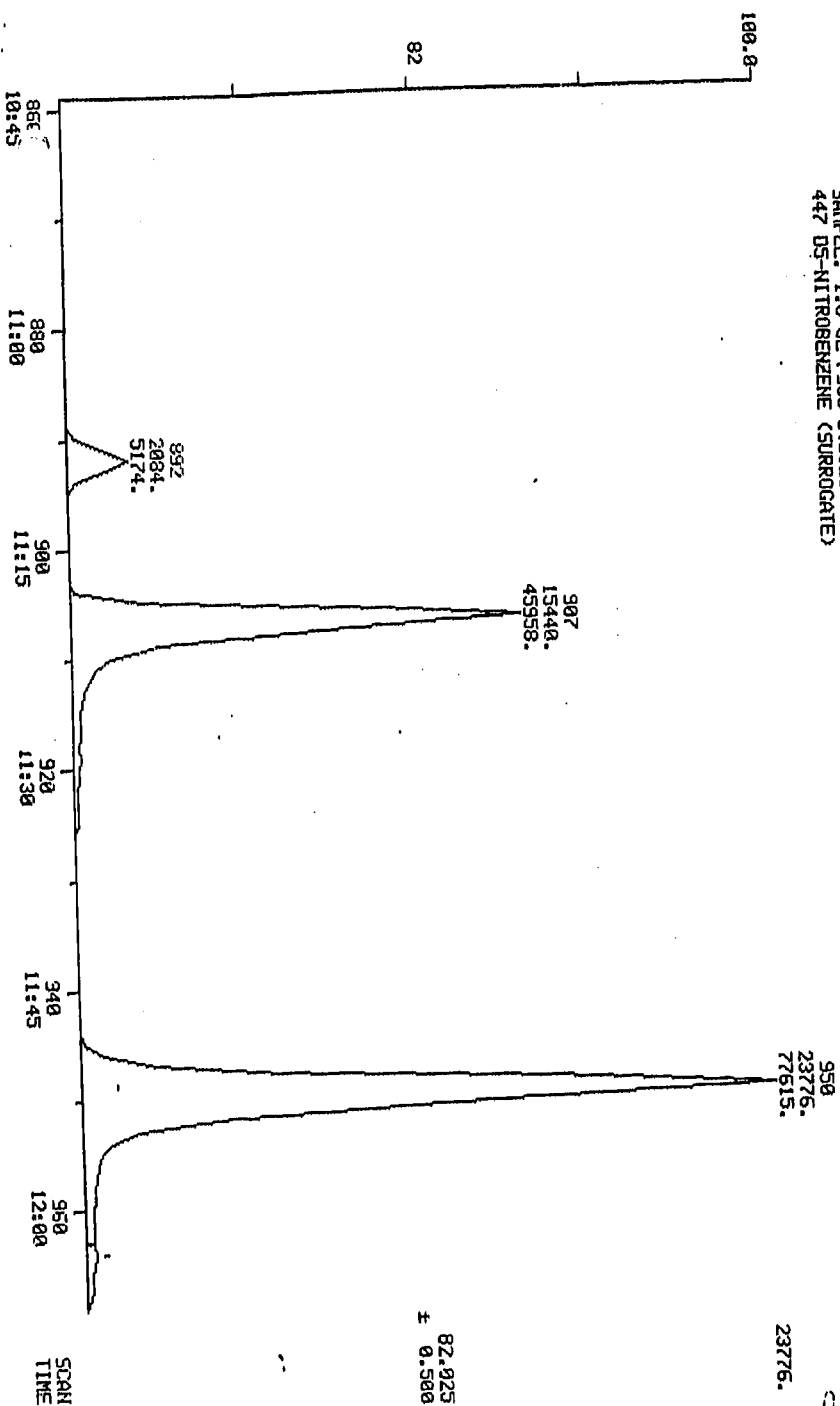
MASS CHROMATOGRAM
 02/02/84 1:59:00
 SAMPLE: 1.0 UL FSCC STD. LOT#10914-2342(S8HC).EXP. 02-01-84
 447 DS-NITROBENZENE (SURROGATE)

MEAD COMPUCHEM
 COMPUCHEM DATA: HG840202C15 SCANS 859 TO 969

025328

009018

31



MASS CHROMATOGRAM
02/02/84 1:59:00
SAMPLE: 1.8 UL FSCC STD.LOT#10914-2342(50MG).EXP.02-01-84
448 2-FLUOROBIPHENYL (SURROGATE)

MEAD COMPUTHER
COMPUCHER DATA: HGS40202C15 SCANS 1171 TO 1281

025329

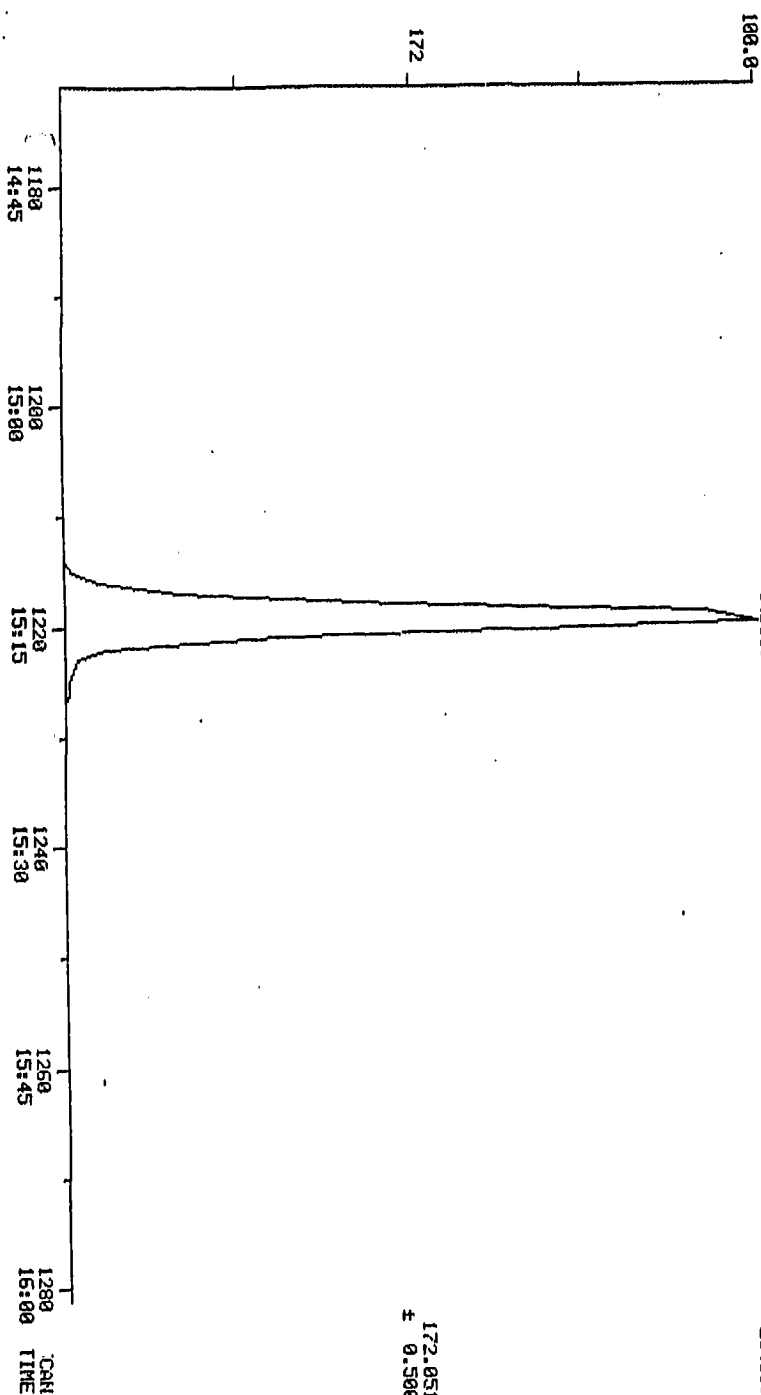
000019

1220
21408.
64936.

21408.

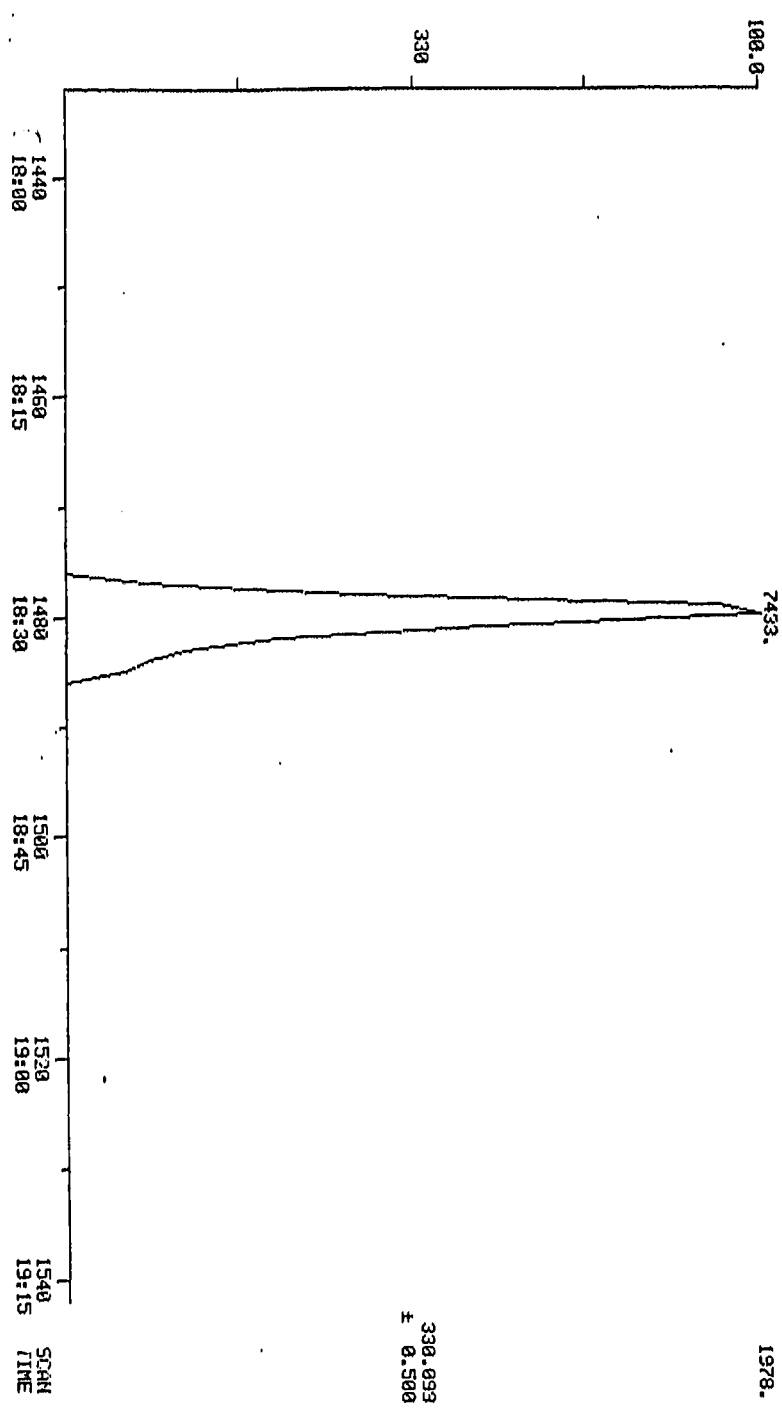
172

172.051
± 0.500



MASS CHROMATOGRAM
02/02/84 1:59:08
SAMPLE: 1.0 UL F5DC STD.LOT#10914-2342(S0NG).EXP.02-01-84
TRIBROMOPHENOL (SURROGATE)

MEAD COMPUTHER
COMPUCHER DATA: H0840202C15 SCANS 1432 TO 1542



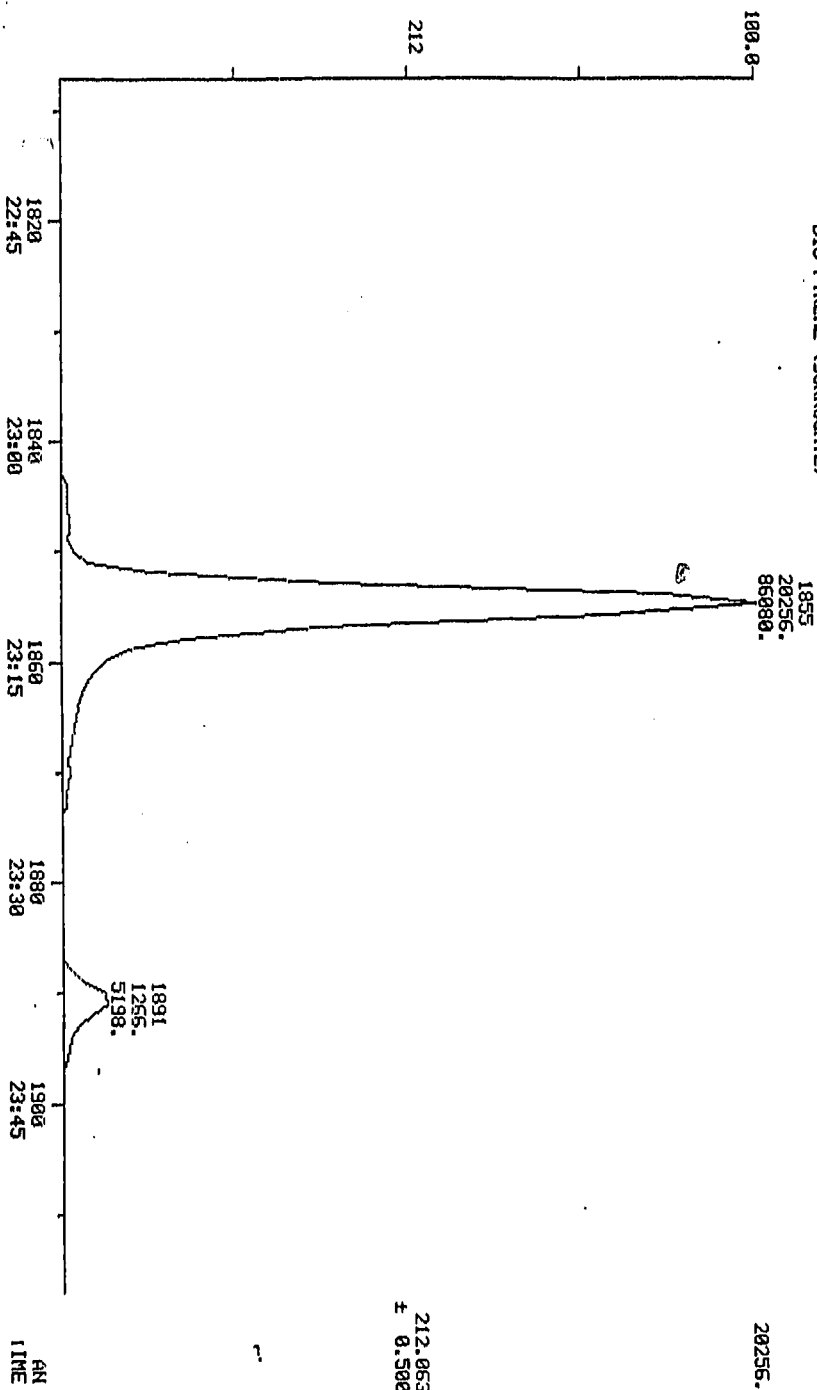
31

000000
025330

MASS CHROMATOGRAM
 02/02/84 1:59:00
 SAMPLE: 1.0 UL FSCC STD, LOT#10914-2342(SMNC). EXP. 02-01-84
 DIO-PYRENE (SURROGATE)

MEAD COMPUCHEN
 COMPUCHEN DATA: HG840202C15 SCANS 1807 TO 1917

025331



212.063
 ± 0.500

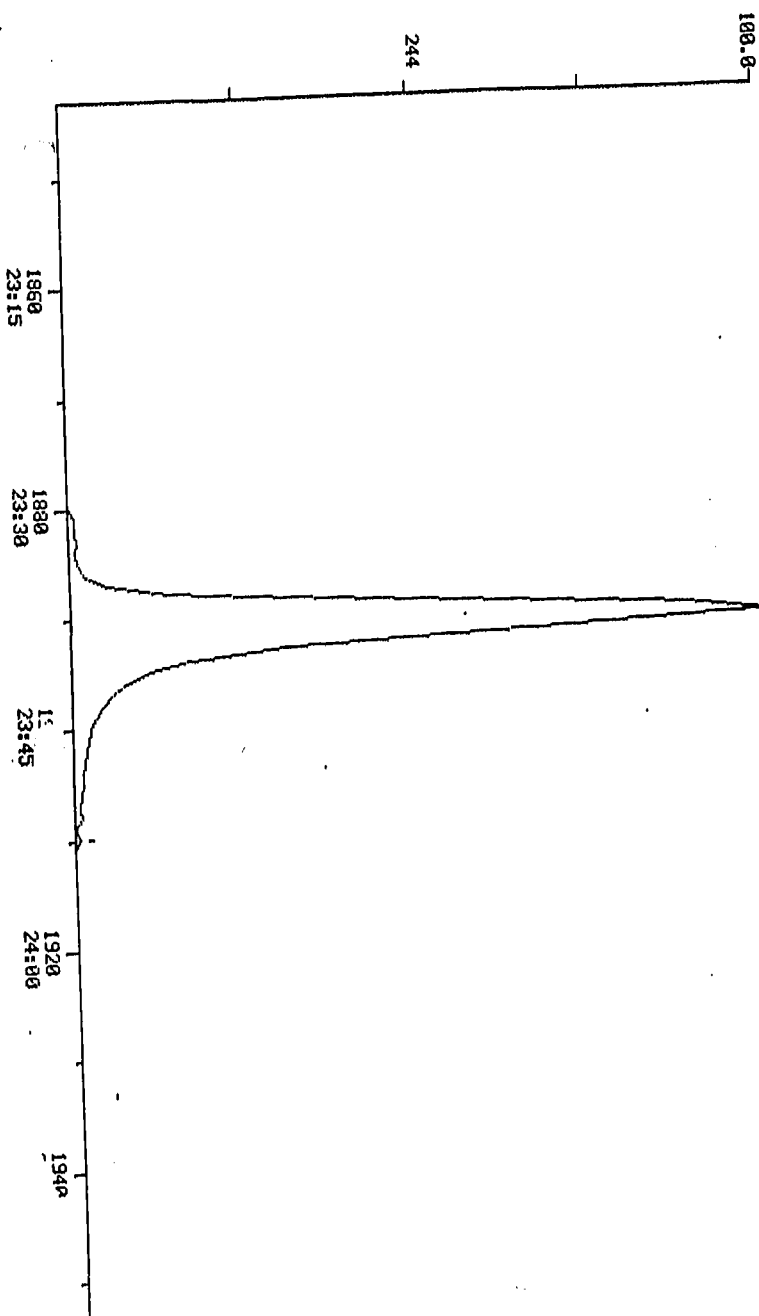
MASS CHROMATOGRAM
02/02/84 1:59:08
SAMPLE: 1.0 UL FSCC STD.LOT#10914-2342(S0NG).EXP.02-01-84
D14-TERPHEHYL CSURROGATE)

MEAD COMPUCHEM
COMPUCHEM DATA: HG840202C15 SCANS 1843 TO 1953

1891
14836.
63800.

14836.

003002
025332



244.073
± 0.500

2330

Mead CompuChem
GC/MS Analysis Log

Initial Time of Turn 1:37
Time Turn Elapsed 0:33
S
D
A

025

Press Hard, Multiple Copies

Run Log							
	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.
1	DH840202.C15	✓		100 µL	602		158
2	H6840202.C15	✓		100 µL	602		158
3	GH019399.C15			100 µL	602		158
4	GH017406.C15			100 µL	602		158
5	G5019269.C15			100 µL	602		158
6	GH019407.C15			100 µL	602		158
7	GH019750.A15			100 µL	659		158
8	GH019422.A15			100 µL	659		158
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Mead ComputChem GC/MS Analysis Log

Initial Time of Tune 1:37
Time Tune Elapsed 2:3.7

Shift(s) (A) (B) (C)
Date 2-2-84
Analysis Type GC

Press Hard, Multiple Copies

025334

Sample Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
P2330	✓		100 µL	602		158	602 F10911-2030 E&L 2-1-84
P1293			100 µL	602		158	602 F10914-2342
P2330			100 µL	602		158	
P1294			100 µL	602		158	
P2333			100 µL	602		158	
P3198			100 µL	602		158	
P2330			100 µL	602		158	
P1295			100 µL	602		158	
P2330			100 µL	659		158	10910 #033
P1250			100 µL	659		158	10910 #033

02/2/84 BP

FSC "CHECK STIMMS" TITULATION

15
01/09/84

STIMMS FILE NAME H6540002.C15.

DATE 2-2-84

OPERATOR 607

253335

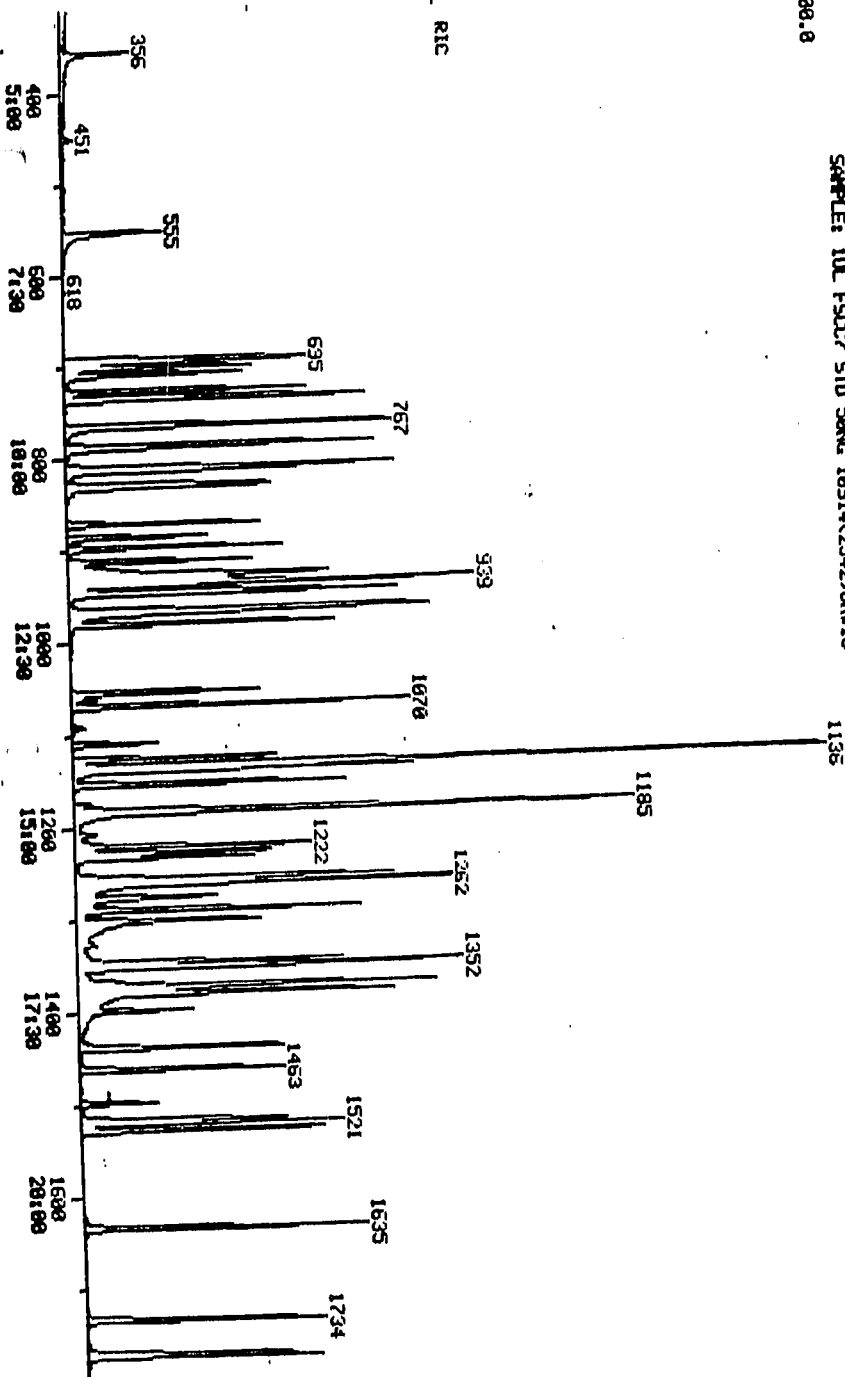
CHECK CHANNEL	← THREE POINT MULTI-POINT →				CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	20 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR	80 mg RESPONSE FACTOR	MULTIPOINT AVERAGE RESPONSE FACTOR			
1 - ~~unlabeled~~ (B)	1.038	0.932	0.872	0.947	.931	0	% difference < 1%
2 - ~~unlabeled~~ (C)	1.235	1.185	1.147	1.189	1.141	4	% difference < 1%
3 - ~~unlabeled~~ (D)	1.218	1.155	1.142	1.172	1.127	2	% difference < 1%
4 - ~~unlabeled~~ (E)	1.030	1.014	0.999	1.014	1.054	4	% difference < 1%
5 - ~~unlabeled~~ (F)	1.361	1.093	1.144	1.331	1.407	6	% difference < 1%
6 - ~~unlabeled~~ (G)	1.088	0.898	1.008	0.991	1.04	4	% difference < 1%
7 - ~~unlabeled~~ (H)	0.985	0.955	0.971	0.954	.906	16	% difference < 20 %
8 - ~~unlabeled~~ (I)	1.694	1.723	1.679	1.699	1.571	9	% difference < 20 %
9 - ~~unlabeled~~ (J)	✓	✓	✓	✓			Detectable Only
10 - ~~unlabeled~~ (K)	✓	✓	✓	✓			RETRACT ONLY

POSTED *efk*

100.0

RIC
02/03/04 18:04:00
SAMPLE: IUL FSCCT STD SONG 10914(2342)ON#15

NEED COMPUCHEN
COMPUCHEN DATA: H0840203815 SCANS 300 TO 1800
OUT OF 300 TO 3100

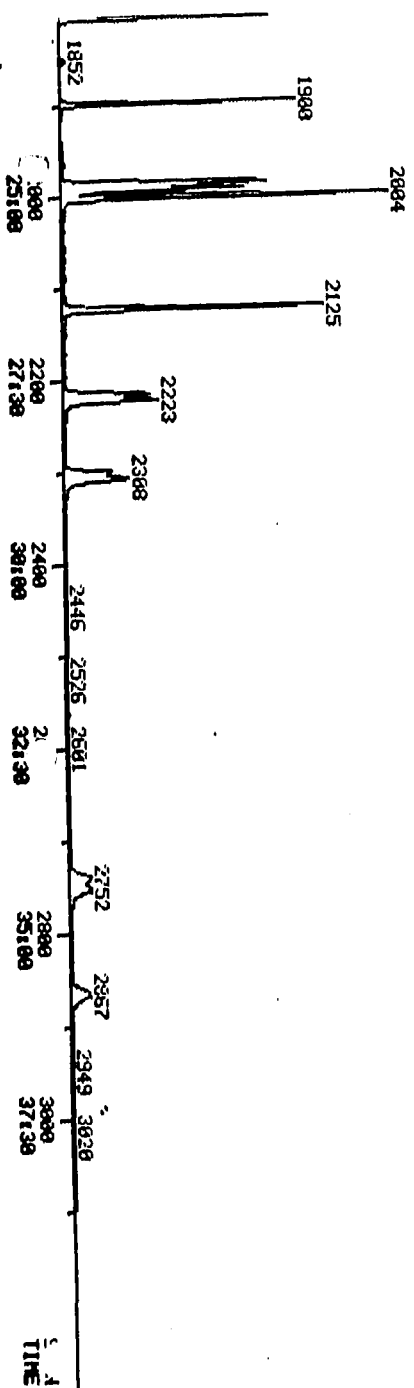


RIC
02/03/84 18:04:08
SAMPLE: IUL FSCCT STD 50MG 18914(2342)ONH16

HEAD COMPUCHEN
COMPUCHEN DATA: H0840203816 SCANS 1800 TO 3100
OUT OF 300 TO 3100

280784.

003027
025337



PROCEDURE: RK
DATA FILE: HQB40203B16

DIAGNOSTIC REPORT

2/03/84 18.49 3E

REFERENCE: FBCC7

METHOD: FBCC7 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

REPORT: FBCC7S1

----- STANDARDS ----- >> --- PLUS UNKNOWN --- >> - LIST NAMES - >
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
6 6 1 87 34 31 12 76 FBCC7S1/FBCC7U1
6 6 1 87 34 32 8 87 FBCC7S2/FBCC7U2

82 COMPOUNDS PROCESSED, 77 FOUND

< COMPOUND >>		SEARCH				>> BAT >>		CHRO	
NO	LIB ENTRY	REF	PRED	SEL DELTA	PEAKS	FIT PEAKS	M/E	TOP DELTA	PEAKS
1	C1	1	-734	735	735	1	994	150	735
2	C2	1	-946	947	947	1	981	136	946 -1
3	C3	1	-1257	1257	1257	1	987	164	1257
4	C4	1	-1518	1518	1517	-1	1	994	188 1517
5	C5	1	-1990	1990	1991	1	1	920	240 1990 -1
6	C6	1	-2300	2300	2300	1	1	932	264 2300
7	C1	2	-357	357	356	-1	1	976	74 356
8	C1	3	-696	696	696	1	1	993	94 696
9	C1	4	-692	692	692	1	1	993	93 693
10	C1	5	-703	703	703	1	1	967	93 703
11	C1	6	-709	709	710	1	1	991	128 709 -1
12	C1	7	-728	728	729	1	1	997	146 728 -1
13	C1	8	-737	737	737	1	1	993	146 737
14	C1	9	-765	765	765	1	1	993	108 765
15	C1	10	-766	766	767	1	1	994	146 767
16	C1	11	-788	788	788	1	1	983	108 788
17	C1	12	-788	788	788	1	1	983	121 788
18	C1	13	-812	812	812	1	1	996	108 812
19	C1	14	-812	812	812	1	1	985	130 812
20	C1	15	-815	815	815	1	1	992	117 815
21	C1	16	-833	833	833	1	1	993	123 833
22	C2	2	-873	873	873	1	1	976	82 873
23	C2	3	-887	887	887	1	1	991	139 887
24	C2	4	-898	898	898	1	1	996	122 898
25	C2	5	-913	913	914	1	1	976	93 914
26	C2	6	-936	936	939	3	2	964	105 939
27	C2	7	-928	928	929	1	1	986	162 929
28	C2	8	-940	940	940	1	1	996	180 940
29	C2	9	-950	950	950	1	1	990	128 950
30	C2	10	-967	967	967	1	1	990	127 967
31	C2	11	-982	982	982	1	1	996	225 982
32	C2	12	-1055	1055	1055	1	1	995	107 1055
33	C2	13	-1070	1070	1070	1	1	993	115 1070
34	C2	14	-1110	1110	1110	1	1	983	237 1110
35	C2	15	-1127	1127	1127	1	1	994	196 1127
36	C2	16	-1134	1134	1136	2	1	997	196 1135 -1
37	C3	2	-1155	1155	1155	1	1	995	162 1155
38	C3	3	-1185	1185	1185	1	1	989	138 1185
39	C3	4	-1222	1222	1222	1	1	994	163 1222
40	C3	5	-1229	1229	1229	1	1	994	152 1229
41	C3	6	-1234	1234	1234	1	1	991	165 1234
42	C3	7	-1256	1256	1261	5	1	959	138 1261
43	C3	8	-1263	1263	1263	1	1	982	154 1263
44	C3	9	-1277	1277	1277	3	1	986	184 1277
45	C3	10	-1303	1303	1303	2	728	109 1306	
46	C3	11	-1291	1291	1291	1	1	977	168 1291
47	C3	12	-1302	1302	1303	1	1	978	165 1302
48	C3	13	-1347	1347	1347	1	1	987	149 1347
49	C3	14	-1354	1354	1354	1	1	953	204 1354
50	C3	15	-1352	1352	1352	1	1	942	166 1352

000000

52	C3	17	-1374	1374	1374	.	1	788	.	178	1374	.	1
53	C3	18	-1378	1378	1377	-1	1	809	.	169	1377	.	1
54	C3	19	-1382	1382	1382	.	1	980	.	77	1382	.	1
55	C4	2	-1440	1440	1440	.	1	983	.	248	1439	-1	1
56	C4	3	-1463	1463	1463	.	1	993	.	284	1463	.	1
57	C4	4	-1498	1498	1498	.	1	989	.	266	1498	.	1
58	C4	5	-1522	1522	1521	-1	2	996	.	178	1521	.	1
59	C4	6	-1530	1530	1529	-1	2	993	.	178	1529	.	1
60	C4	7	-1635	1635	1635	.	1	986	.	149	1635	.	1
61	C4	8	-1734	1734	1734	.	1	995	.	202	1734	.	1
62	C5	2	-1773	1774	1774	.	1	991	.	202	1774	.	1
63	C5	3	.	.	.	.	.	.	.	184	.	.	.
64	C5	4	-1899	1900	1900	.	1	988	.	149	1900	.	1
65	C5	5	.	.	.	.	.	.	.	252	.	.	.
66	C5	6	-1987	1988	1987	-1	1	976	.	228	1987	.	1
67	C5	7	-2004	2005	2004	-1	1	911	.	149	2004	.	1
68	C5	8	-1994	1995	1994	-1	1	994	.	228	1994	.	1
69	C5	9	-2125	2126	2125	-1	1	980	.	149	2125	.	1
70	C6	2	-2216	2217	2217	.	1	968	.	252	2217	.	1
71	C6	3	-2222	2223	2223	.	2	972	.	252	2223	.	1
72	C6	4	-2307	2308	2308	.	1	982	.	252	2308	.	1
73	C6	5	-2739	2740	2741	1	1	966	.	276	2740	-1	2
74	C6	6	-2750	2751	2753	2	1	971	.	278	2754	.	1
75	C6	7	-2864	2865	2867	2	1	941	.	276	2867	.	2
76	C7	2	-554	554	555	1	1	988	.	112	555	.	1
77	C7	3	-694	694	694	.	1	994	.	99	694	.	1
78	C7	4	-830	830	831	1	1	991	.	82	830	-1	1
79	C7	5	-1140	1140	1140	.	1	985	.	172	1140	.	1
80	C7	6	-1399	1399	1399	.	1	988	.	330	1399	.	1
81	C7	7	-1770	1771	1770	-1	1	922	.	212	1770	.	1
82	C7	8	-1805	1806	1805	-1	1	992	.	244	1805	.	1

003029

QUANTITATION REPORT FILE: HQ840203B16

DATA: HQ840203B16.TI

02/03/84 18:04:00

SAMPLE: 1UL F8CC7 STD 50NG 10914(2342)DN#16

SUBMITTED BY: 16

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-NITROBODIMETHYLAMINE
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	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-DICHLORO PHENOL
24	446 1,2,4-TRICHLORO BENZENE
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-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

med
2342

00025840

31

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQMT)	AMOUNT	XTOT
1	150	735	9:11	1	1.000	A VB	38253.	40.000 NG	0.68
2	74	356	4:27	1	0.484	A BV	25941.	59.277 NG	1.00
3	94	696	8:42	1	0.947	A BV	40019.	52.164 NG	0.88
4	93	693	8:40	1	0.943	A BV	38955.	44.097 NG	0.75
5	93	703	8:47	1	0.956	A VV	39602.	49.607 NG	0.84
6	128	709	8:52	1	0.965	A BV	32128.	49.793 NG	0.84
7	146	728	9:06	1	0.990	A BV	39736.	48.677 NG	0.82
8	146	737	9:13	1	1.003	A VV	43416.	49.911 NG	0.84
9	108	765	9:34	1	1.041	A BV	18951.	52.523 NG	0.89
10	146	767	9:35	1	1.044	A BB	38895.	50.171 NG	0.85
11	108	788	9:51	1	1.072	A VV	23780.	48.429 NG	0.82
12	121	788	9:51	1	1.072	A BB	10913.	50.301 NG	0.85
13	108	812	10:09	1	1.105	A BV	26819.	47.765 NG	0.81
14	130	812	10:09	1	1.105	A BB	6423.	50.380 NG	0.85
15	117	815	10:11	1	1.109	A BB	16561.	47.125 NG	0.80
16	123	833	10:25	1	1.133	A BB	16500.	48.344 NG	0.82
17	136	946	11:49	17	1.000	A BB	66449.	40.000 NG	0.68
18	82	873	10:55	17	0.923	A BV	69779.	50.528 NG	0.86

025341

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
19	139	887	11:05	17	0.938	A BB	16968.	48.715 NG	0.82
20	122	898	11:13	17	0.949	A BB	24665.	47.766 NG	0.81
21	93	914	11:25	17	0.966	A BV	39600.	50.402 NG	0.85
	105	939	11:44	17	0.993	A VV	34694.	136.437 NG	2.31
23	162	929	11:37	17	0.982	A BV	26775.	48.604 NG	0.82
24	180	940	11:45	17	0.994	A BB	33405.	49.472 NG	0.84
25	128	950	11:52	17	1.004	A BV	91695.	48.258 NG	0.82
26	127	967	12:05	17	1.022	A BV	127978.	225.556 NG	3.82
27	225	982	12:16	17	1.038	A BB	18889.	48.578 NG	0.82
28	107	1055	13:11	17	1.115	A BV	31698.	49.866 NG	0.84
29	115	1070	13:22	17	1.131	A BB	27726.	49.623 NG	0.84
30	237	1110	13:52	17	1.173	A BB	7941.	36.631 NG	0.62
31	196	1127	14:05	17	1.191	A BV	19086.	56.013 NG	0.95
32	196	1135	14:11	17	1.200	A VV	99578.	266.226 NG	4.51
33	164	1257	15:43	33	1.000	A BB	39931.	40.000 NG	0.68
34	162	1155	14:26	33	0.919	A BB	56363.	48.694 NG	0.82
35	138	1185	14:49	33	0.943	A BV	94450.	254.065 NG	4.30
36	163	1222	15:16	33	0.972	A BB	67378.	49.404 NG	0.84
37	152	1229	15:22	33	0.978	A BV	66204.	50.090 NG	0.85
38	165	1234	15:25	33	0.982	A BB	14310.	48.409 NG	0.82
39	138	1261	15:46	33	1.003	A VV	93502.	658.722 NG	11.15
40	154	1263	15:47	33	1.005	A BB	53237.	49.097 NG	0.83
41	184	1277	15:58	33	1.016	A VV	15529.	261.485 NG	4.43
42	109	1306	16:19	33	1.039	A BV	4489.	65.478 NG	1.11
43	168	1291	16:08	33	1.027	A BB	77692.	48.939 NG	0.83
44	165	1302	16:16	33	1.036	A VB	18822.	47.298 NG	0.80
45	149	1347	16:50	33	1.072	A BV	72947.	48.928 NG	0.83
46	204	1354	16:55	33	1.077	A BB	25466.	48.664 NG	0.82
47	166	1352	16:54	33	1.076	A BB	61036.	48.835 NG	0.83
48	138	1369	17:07	33	1.089	A VV	5656.	293.933 NG	4.97
49	198	1373	17:10	33	1.092	A BB	34310.	221.087 NG	3.74
50	169	1377	17:13	33	1.095	A BB	16426.	28.781 NG	0.49
51	77	1382	17:16	33	1.099	A VV	83878.	46.207 NG	0.78
52	188	1517	18:58	52	1.000	A BV	60704.	40.000 NG	0.68
53	248	1439	17:59	52	0.949	A BB	14847.	49.149 NG	0.83
54	284	1463	18:17	52	0.964	A BB	18198.	47.968 NG	0.81
55	266	1498	18:43	52	0.987	A BB	7560.	51.249 NG	0.87
56	178	1521	19:01	52	1.003	A BV	80148.	49.134 NG	0.83
57	178	1529	19:07	52	1.008	A VV	73237.	49.871 NG	0.84
58	149	1635	20:26	52	1.078	A VV	112480.	50.473 NG	0.85
59	202	1734	21:40	52	1.143	A VV	77122.	51.183 NG	0.87
60	240	1990	24:52	60	1.000	A BV	36295.	40.000 NG	0.68
61	202	1774	22:10	60	0.891	A VV	77354.	50.140 NG	0.85
62	NOT FOUND								
63	149	1900	23:45	60	0.955	A VV	43763.	52.144 NG	0.88
64	NOT FOUND								
65	228	1987	24:50	60	0.998	A BV	57993.	48.444 NG	0.82
66	149	2004	25:03	60	1.007	A VV	67155.	51.837 NG	0.88
67	228	1994	24:55	60	1.002	A VV	54283.	50.834 NG	0.86
68	149	2125	26:34	60	1.068	A VV	116863.	54.932 NG	0.93
69	264	2300	28:45	69	1.000	A BV	31230.	40.000 NG	0.68
70	252	2217	27:43	69	0.964	A BV	48035.	48.084 NG	0.81
71	252	2223	27:47	69	0.967	A VV	45922.	46.703 NG	0.79
72	252	2308	28:51	69	1.003	A BV	41119.	50.804 NG	0.86
73	276	2740	34:15	69	1.191	A BV	27138.	76.127 NG	1.29
74	278	2754	34:25	69	1.197	A BV	23186.	68.864 NG	1.17

003025342

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
75	276	2867	35:50	69	1.247	A*BV	23823.	92.373 NG	1.36
76	112	555	6:56	1	0.755	A BV	27321.	58.090 NG	0.98
77	99	694	8:40	17	0.734	A BV	31817.	49.750 NG	0.84
	82	830	10:22	17	0.877	A BV	44226.	48.429 NG	0.82
74	172	1140	14:15	17	1.205	A BB	64156.	49.807 NG	0.84
80	330	1399	17:29	33	1.113	A BB	7314.	43.349 NG	0.73
81	212	1770	22:07	60	0.889	A VV	68568.	48.596 NG	0.82
82	244	1805	22:34	52	1.190	A BV	50968.	51.123 NG	0.87

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:28	1.00	0.486	1.00	59.28	50.00	0.543	0.458	1.19
3	8:42	1.00	0.948	1.00	52.16	50.00	0.837	0.802	1.04
4	8:39	1.00	0.943	1.00	44.10	50.00	0.815	0.924	0.88
5	8:47	1.00	0.958	1.00	49.61	50.00	0.828	0.835	0.99
6	8:52	1.00	0.966	1.00	49.79	50.00	0.672	0.675	1.00
7	9:06	1.00	0.992	1.00	48.70	50.00	0.831	0.853	0.97
8	9:13	1.00	1.004	1.00	49.91	50.00	0.908	0.910	1.00
9	9:34	1.00	1.042	1.00	52.52	50.00	0.396	0.377	1.05
10	9:34	1.00	1.044	1.00	50.17	50.00	0.813	0.811	1.00
11	9:51	1.00	1.074	1.00	48.43	50.00	0.497	0.513	0.97
12	9:51	1.00	1.074	1.00	50.30	50.00	0.228	0.227	1.01
13	10:09	1.00	1.106	1.00	47.76	50.00	0.361	0.387	0.96
14	10:09	1.00	1.106	1.00	50.38	50.00	0.134	0.133	1.01
15	10:11	1.00	1.110	1.00	47.13	50.00	0.346	0.367	0.94
16	10:25	1.00	1.135	1.00	48.34	50.00	0.345	0.357	0.97
17	11:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	10:55	1.00	0.923	1.00	50.53	50.00	0.840	0.831	1.01
19	11:05	1.00	0.938	1.00	48.71	50.00	0.204	0.210	0.97
	11:13	1.00	0.949	1.00	47.77	50.00	0.297	0.311	0.96
21	11:25	1.00	0.965	1.00	50.40	50.00	0.477	0.473	1.01
22	11:42	1.00	0.939	1.00	136.44	250.00	0.084	0.153	0.55
23	11:36	1.00	0.981	1.00	48.60	50.00	0.322	0.332	0.97
24	11:45	1.00	0.994	1.00	49.47	50.00	0.402	0.406	0.99
25	11:52	1.00	1.004	1.00	48.26	50.00	1.104	1.144	0.97
26	12:05	1.00	1.022	1.00	225.56	250.00	0.308	0.342	0.90
27	12:16	1.00	1.038	1.00	48.58	50.00	0.227	0.234	0.97
28	13:11	1.00	1.115	1.00	49.87	50.00	0.382	0.383	1.00
29	13:22	1.00	1.131	1.00	49.62	50.00	0.334	0.336	0.99
30	13:52	1.00	1.173	1.00	36.63	50.00	0.096	0.130	0.73
31	14:05	1.00	1.191	1.00	56.01	50.00	0.230	0.205	1.12
32	14:10	1.00	1.199	1.00	266.23	250.00	0.240	0.225	1.06
33	15:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	14:26	1.00	0.919	1.00	48.69	50.00	1.129	1.160	0.97
35	14:49	1.00	0.943	1.00	254.07	250.00	0.378	0.372	1.02
36	15:16	1.00	0.972	1.00	49.40	50.00	1.350	1.366	0.99
37	15:22	1.00	0.978	1.00	50.09	50.00	1.326	1.324	1.00
38	15:25	1.00	0.982	1.00	48.41	50.00	0.287	0.296	0.97
39	15:42	1.00	0.999	1.00	658.72	250.00	0.134	0.051	2.63
40	15:47	1.00	1.005	1.00	49.10	50.00	1.067	1.086	0.98
41	15:58	1.00	1.016	1.00	261.48	250.00	0.062	0.059	1.03
42	16:17	1.00	1.037	1.00	65.48	125.00	0.052	0.099	0.52
43	16:08	1.00	1.027	1.00	48.94	50.00	1.557	1.590	0.98
44	16:16	1.00	1.036	1.00	47.30	50.00	0.377	0.399	0.95
45	16:50	1.00	1.072	1.00	48.93	50.00	1.461	1.493	0.98
	16:55	1.00	1.077	1.00	48.66	50.00	0.510	0.524	0.97

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	16:54	1.00	1.076	1.00	48.84	50.00	1.223	1.252	0.98
48	17:04	1.00	1.087	1.00	293.93	250.00	0.023	0.019	1.18
49	17:10	1.00	1.093	1.00	221.09	250.00	0.137	0.155	0.88
50	17:13	1.00	1.096	1.00	28.78	50.00	0.329	0.572	0.58
51	17:16	1.00	1.099	1.00	46.21	50.00	1.721	1.862	0.92
52	18:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	18:00	1.00	0.949	1.00	49.15	50.00	0.196	0.199	0.98
54	18:17	1.00	0.964	1.00	47.97	50.00	0.240	0.250	0.96
55	18:43	1.00	0.987	1.00	51.25	50.00	0.100	0.097	1.02
56	19:01	1.00	1.003	1.00	49.13	50.00	1.056	1.075	0.98
57	19:07	1.00	1.008	1.00	49.87	50.00	0.965	0.968	1.00
58	20:26	1.00	1.077	1.00	50.47	50.00	1.482	1.468	1.01
59	21:40	1.00	1.142	1.00	51.18	50.00	1.016	0.993	1.02
60	24:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	22:10	1.00	0.891	1.00	50.14	50.00	1.705	1.700	1.00
62	22:30		0.906			50.00		0.031	
63	23:44	1.00	0.954	1.00	52.14	50.00	0.965	0.925	1.04
64	26:55		0.997			50.00		0.025	
65	24:50	1.00	0.998	1.00	48.44	50.00	1.278	1.319	0.97
66	25:03	1.00	1.007	1.00	51.84	50.00	1.480	1.428	1.04
67	24:55	1.00	1.002	1.00	50.83	50.00	1.196	1.177	1.02
68	26:34	1.00	1.068	1.00	54.93	50.00	2.576	2.345	1.10
69	28:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	27:42	1.00	0.963	1.00	48.08	50.00	1.230	1.280	0.96
71	27:46	1.00	0.966	1.00	46.70	50.00	1.176	1.259	0.93
72	28:50	1.00	1.003	1.00	50.80	50.00	1.053	1.037	1.02
73	34:14	1.00	1.191	1.00	76.13	50.00	0.695	0.457	1.52
74	34:22	1.00	1.196	1.00	68.86	50.00	0.594	0.431	1.38
75	35:48	1.00	1.245	1.00	92.37	50.00	0.610	0.330	1.85
76	6:55	1.00	0.755	1.00	58.09	50.00	0.571	0.492	1.16
77	8:40	1.00	0.734	1.00	49.75	50.00	0.383	0.385	1.00
78	10:22	1.00	0.877	1.00	48.43	50.00	0.532	0.550	0.97
79	14:15	1.00	1.205	1.00	49.81	50.00	0.772	0.775	1.00
80	17:29	1.00	1.113	1.00	43.35	50.00	0.147	0.169	0.87
81	22:07	1.00	0.889	1.00	48.60	50.00	1.511	1.555	0.97
82	22:34	1.00	1.189	1.00	51.12	50.00	0.672	0.657	1.02

003034

025344

QUANTITATION REPORT FILE: H0840203B16

DATA: H0840203B16.T1

02/03/84 18:04:00

SAMPLE: 1UL FS007 STD 50NG 10914(2342)QN#16

3-MITTED BY: 16

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-NITROBODIMETHYLAMINE
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	420 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
1	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	*D10-ACENAPHTHENE (IS)
34	416 2-CHLORONAPHTHALENE
35	479 3-NITROANILINE
36	423 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

002035

31

025345

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 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)
 7 D5-PHENOL (SURROGATE)
 78 447 D9-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	735	9:11	1	1.000	A VB	38253.	40.000 NG	0.71
2	74	356	4:27	1	0.484	A BV	25941.	49.999 NG	0.89
3	94	696	8:42	1	0.947	A BV	40019.	49.999 NG	0.89
4	93	693	8:40	1	0.943	A BV	38955.	50.000 NG	0.89
5	93	703	8:47	1	0.956	A VV	39602.	50.000 NG	0.89
6	128	709	8:52	1	0.965	A BV	32128.	49.999 NG	0.89
7	146	728	9:06	1	0.990	A BV	39736.	49.999 NG	0.89
8	146	737	9:13	1	1.003	A VV	43416.	49.999 NG	0.89
9	108	765	9:34	1	1.041	A BV	18951.	49.999 NG	0.89
10	146	767	9:35	1	1.044	A BB	38895.	49.999 NG	0.89
11	108	788	9:51	1	1.072	A VV	23780.	49.999 NG	0.89
12	121	788	9:51	1	1.072	A BB	10913.	49.999 NG	0.89
13	108	812	10:09	1	1.105	A BV	26819.	49.999 NG	0.89
14	130	812	10:09	1	1.105	A BB	4423.	49.999 NG	0.89
15	117	815	10:11	1	1.109	A BB	16561.	49.999 NG	0.89
16	123	833	10:25	1	1.133	A BB	16500.	49.999 NG	0.89
17	136	946	11:49	17	1.000	A BB	66449.	40.000 NG	0.71
18	82	873	10:55	17	0.923	A BV	69779.	49.999 NG	0.89

0025346

NO	M/E	SCAN	TIME					JUNT	XTOT
19	139	887	11:05	17	0. -			49.999 NG	0.89
20	122	898	11:13	17	0.949	A HH	24665.	49.999 NG	0.89
21	93	914	11:25	17	0.966	A BV	39600.	49.999 NG	0.89
	105	929	11:44	17	0.993	A VV	34694.	249.998 NG	4.45
	162	929	11:37	17	0.982	A BV	26775.	49.999 NG	0.89
24	180	940	11:45	17	0.994	A BB	33405.	49.999 NG	0.89
25	128	950	11:52	17	1.004	A BV	91695.	49.999 NG	0.89
26	127	967	12:05	17	1.022	A BV	127978.	249.998 NG	4.45
27	225	982	12:16	17	1.038	A BB	18889.	49.999 NG	0.89
28	107	1055	13:11	17	1.115	A BV	31698.	49.999 NG	0.89
29	115	1070	13:22	17	1.131	A BB	27726.	49.999 NG	0.89
30	237	1110	13:52	17	1.173	A BB	7941.	49.999 NG	0.89
31	196	1127	14:05	17	1.191	A BV	19086.	49.999 NG	0.89
32	196	1135	14:11	17	1.200	A VV	99578.	249.998 NG	4.45
33	164	1257	15:43	33	1.000	A BB	39931.	40.000 NG	0.71
34	162	1155	14:26	33	0.919	A BB	56363.	49.999 NG	0.89
35	138	1185	14:49	33	0.943	A BV	94450.	249.998 NG	4.45
36	163	1222	15:16	33	0.972	A BB	67378.	49.999 NG	0.89
37	152	1229	15:22	33	0.978	A BV	66204.	49.999 NG	0.89
38	165	1234	15:25	33	0.982	A BB	14310.	49.999 NG	0.89
39	138	1261	15:46	33	1.003	A BB	41706.	249.998 NG	4.45
40	154	1263	15:47	33	1.005	A BB	53237.	49.999 NG	0.89
41	184	1277	15:58	33	1.016	A VV	15529.	249.998 NG	4.45
42	109	1306	16:19	33	1.039	A BB	12505.	124.999 NG	2.23
43	168	1291	16:08	33	1.027	A BB	77692.	49.999 NG	0.89
44	165	1302	16:16	33	1.036	A VB	18822.	49.999 NG	0.89
45	149	1347	16:50	33	1.072	A BV	72947.	49.999 NG	0.89
46	204	1354	16:55	33	1.077	A BB	25466.	49.999 NG	0.89
47	166	1352	16:54	33	1.076	A BB	61036.	49.999 NG	0.89
	138	1369	17:07	33	1.089	A VV	5656.	249.998 NG	4.45
49	198	1373	17:10	33	1.092	A BB	34310.	249.998 NG	4.45
50	169	1377	17:13	33	1.095	A BB	16426.	49.999 NG	0.89
51	77	1382	17:16	33	1.099	A VV	85878.	49.999 NG	0.89
52	188	1517	18:58	52	1.000	A BV	60704.	40.000 NG	0.71
53	248	1439	17:59	52	0.949	A BB	14847.	49.999 NG	0.89
54	284	1463	18:17	52	0.964	A BB	18198.	49.999 NG	0.89
55	266	1498	18:43	52	0.987	A BB	7560.	49.999 NG	0.89
56	178	1521	19:01	52	1.003	A BV	80148.	49.999 NG	0.89
57	178	1529	19:07	52	1.008	A VV	73237.	49.999 NG	0.89
58	149	1635	20:26	52	1.078	A VV	112480.	49.999 NG	0.89
59	202	1734	21:40	52	1.143	A VV	77122.	49.999 NG	0.89
60	240	1990	24:52	60	1.000	A BV	36295.	40.000 NG	0.71
61	202	1774	22:10	60	0.891	A VV	77354.	49.999 NG	0.89
62	NOT FOUND								
63	149	1900	23:45	60	0.955	A VV	43763.	49.999 NG	0.89
64	NOT FOUND								
65	228	1987	24:50	60	0.998	A BV	57993.	49.999 NG	0.89
66	149	2004	25:03	60	1.007	A VV	67155.	49.999 NG	0.89
67	228	1994	24:55	60	1.002	A VV	54283.	49.999 NG	0.89
68	149	2125	26:34	60	1.068	A VV	116863.	49.999 NG	0.89
69	264	2300	28:45	69	1.000	A BV	31230.	40.000 NG	0.71
70	252	2217	27:43	69	0.964	A BV	48035.	50.000 NG	0.89
71	252	2223	27:47	69	0.967	A VV	45922.	50.000 NG	0.89
72	252	2308	28:51	69	1.003	A BV	41119.	49.999 NG	0.89
73	276	2740	34:15	69	1.191	A*BV	27138.	49.999 NG	0.89
	278	2754	34:25	69	1.197	A BV	23186.	49.999 NG	0.89

0004.17 025347

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HOHT)	AMOUNT	%TOT
75	276	2867	35:50	69	1.247	A*BV	23823.	49.999 NG	0.89
76	112	555	6:56	1	0.755	A BV	27321.	49.999 NG	0.89
77	99	694	8:40	17	0.734	A BV	31817.	49.999 NG	0.89
78	82	830	10:22	17	0.877	A BV	44226.	50.000 NG	0.89
79	172	1140	14:15	17	1.205	A BB	64156.	49.999 NG	0.89
80	330	1399	17:29	33	1.113	A BB	7314.	49.999 NG	0.89
81	212	1770	22:07	60	0.889	A VV	68568.	49.999 NG	0.89
82	244	1805	22:34	52	1.190	A BV	50968.	49.999 NG	0.89

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:11	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:27	1.00	0.484	1.00	50.00	50.00	0.543	0.543	1.00
3	8:42	1.00	0.947	1.00	50.00	50.00	0.837	0.837	1.00
4	8:40	1.00	0.943	1.00	50.00	50.00	0.815	0.815	1.00
5	8:47	1.00	0.956	1.00	50.00	50.00	0.828	0.828	1.00
6	8:52	1.00	0.965	1.00	50.00	50.00	0.672	0.672	1.00
7	9:06	1.00	0.990	1.00	50.00	50.00	0.831	0.831	1.00
8	9:13	1.00	1.003	1.00	50.00	50.00	0.908	0.908	1.00
9	9:34	1.00	1.041	1.00	50.00	50.00	0.396	0.396	1.00
10	9:35	1.00	1.044	1.00	50.00	50.00	0.813	0.813	1.00
11	9:51	1.00	1.072	1.00	50.00	50.00	0.497	0.497	1.00
12	9:51	1.00	1.072	1.00	50.00	50.00	0.228	0.228	1.00
13	10:09	1.00	1.105	1.00	50.00	50.00	0.561	0.561	1.00
14	10:09	1.00	1.105	1.00	50.00	50.00	0.134	0.134	1.00
15	10:11	1.00	1.109	1.00	50.00	50.00	0.346	0.346	1.00
16	10:25	1.00	1.133	1.00	50.00	50.00	0.345	0.345	1.00
17	11:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	10:55	1.00	0.923	1.00	50.00	50.00	0.840	0.840	1.00
19	11:05	1.00	0.938	1.00	50.00	50.00	0.204	0.204	1.00
20	11:13	1.00	0.949	1.00	50.00	50.00	0.297	0.297	1.00
21	11:25	1.00	0.966	1.00	50.00	50.00	0.477	0.477	1.00
22	11:44	1.00	0.993	1.00	250.00	250.00	0.084	0.084	1.00
23	11:37	1.00	0.982	1.00	50.00	50.00	0.322	0.322	1.00
24	11:45	1.00	0.994	1.00	50.00	50.00	0.402	0.402	1.00
25	11:52	1.00	1.004	1.00	50.00	50.00	1.104	1.104	1.00
26	12:05	1.00	1.022	1.00	250.00	250.00	0.308	0.308	1.00
27	12:16	1.00	1.038	1.00	50.00	50.00	0.227	0.227	1.00
28	13:11	1.00	1.115	1.00	50.00	50.00	0.382	0.382	1.00
29	13:22	1.00	1.131	1.00	50.00	50.00	0.334	0.334	1.00
30	13:52	1.00	1.173	1.00	50.00	50.00	0.096	0.096	1.00
31	14:05	1.00	1.191	1.00	50.00	50.00	0.230	0.230	1.00
32	14:11	1.00	1.200	1.00	250.00	250.00	0.240	0.240	1.00
33	15:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	14:26	1.00	0.919	1.00	50.00	50.00	1.129	1.129	1.00
35	14:49	1.00	0.943	1.00	250.00	250.00	0.378	0.378	1.00
36	15:16	1.00	0.972	1.00	50.00	50.00	1.350	1.350	1.00
37	15:22	1.00	0.978	1.00	50.00	50.00	1.326	1.326	1.00
38	15:25	1.00	0.982	1.00	50.00	50.00	0.287	0.287	1.00
39	15:46	1.00	1.003	1.00	250.00	250.00	0.167	0.167	1.00
40	15:47	1.00	1.005	1.00	50.00	50.00	1.067	1.067	1.00
41	15:58	1.00	1.016	1.00	250.00	250.00	0.062	0.062	1.00
42	16:19	1.00	1.039	1.00	125.00	125.00	0.100	0.100	1.00
43	16:08	1.00	1.027	1.00	50.00	50.00	1.557	1.557	1.00
44	16:16	1.00	1.036	1.00	50.00	50.00	0.377	0.377	1.00
45	16:50	1.00	1.072	1.00	50.00	50.00	1.461	1.461	1.00
46	16:55	1.00	1.077	1.00	50.00	50.00	0.510	0.510	1.00

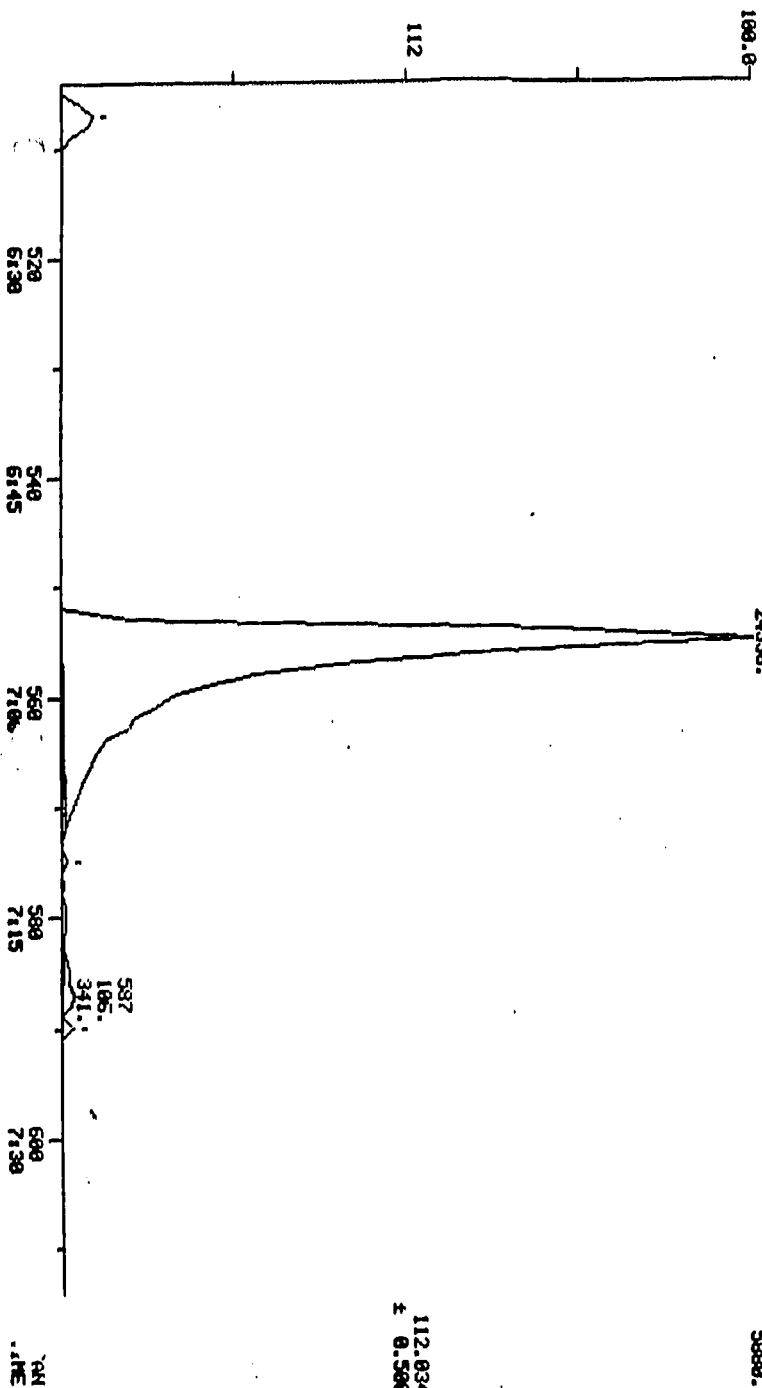
0000025348

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	16:54	1.00	1.076	1.00	50.00	50.00	1.223	1.223	1.00
48	17:07	1.00	1.089	1.00	250.00	250.00	0.023	0.023	1.00
49	17:10	1.00	1.092	1.00	250.00	250.00	0.137	0.137	1.00
50	17:13	1.00	1.095	1.00	50.00	50.00	0.329	0.329	1.00
51	17:16	1.00	1.099	1.00	50.00	50.00	1.721	1.721	1.00
52	18:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	17:59	1.00	0.949	1.00	50.00	50.00	0.196	0.196	1.00
54	18:17	1.00	0.964	1.00	50.00	50.00	0.240	0.240	1.00
55	18:43	1.00	0.987	1.00	50.00	50.00	0.100	0.100	1.00
56	19:01	1.00	1.003	1.00	50.00	50.00	1.056	1.056	1.00
57	19:07	1.00	1.008	1.00	50.00	50.00	0.965	0.965	1.00
58	20:26	1.00	1.078	1.00	50.00	50.00	1.482	1.482	1.00
59	21:40	1.00	1.143	1.00	50.00	50.00	1.016	1.016	1.00
60	24:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	22:10	1.00	0.891	1.00	50.00	50.00	1.705	1.705	1.00
62	22:50		0.906			50.00		0.031	
63	23:45	1.00	0.955	1.00	50.00	50.00	0.965	0.965	1.00
64	26:55		0.997			50.00		0.025	
65	24:50	1.00	0.998	1.00	50.00	50.00	1.278	1.278	1.00
66	25:03	1.00	1.007	1.00	50.00	50.00	1.480	1.480	1.00
67	24:55	1.00	1.002	1.00	50.00	50.00	1.196	1.196	1.00
68	26:34	1.00	1.068	1.00	50.00	50.00	2.576	2.576	1.00
69	28:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	27:43	1.00	0.964	1.00	50.00	50.00	1.230	1.230	1.00
71	27:47	1.00	0.967	1.00	50.00	50.00	1.176	1.176	1.00
72	28:51	1.00	1.003	1.00	50.00	50.00	1.053	1.053	1.00
73	34:15	1.00	1.191	1.00	50.00	50.00	0.695	0.695	1.00
74	34:25	1.00	1.197	1.00	50.00	50.00	0.594	0.594	1.00
75	35:50	1.00	1.247	1.00	50.00	50.00	0.610	0.610	1.00
	6:56	1.00	0.755	1.00	50.00	50.00	0.571	0.571	1.00
	8:40	1.00	0.734	1.00	50.00	50.00	0.383	0.383	1.00
78	10:22	1.00	0.877	1.00	50.00	50.00	0.532	0.532	1.00
79	14:15	1.00	1.205	1.00	50.00	50.00	0.772	0.772	1.00
80	17:29	1.00	1.113	1.00	50.00	50.00	0.147	0.147	1.00
81	22:07	1.00	0.889	1.00	50.00	50.00	1.511	1.511	1.00
82	22:34	1.00	1.190	1.00	50.00	50.00	0.672	0.672	1.00

003083

MASS CHROMATOGRAM
 02/03/84 18104100
 SAMPLE 1UL FSC07 STD 50NG 10914(2342)ON#16
 619 2-FLUOROPHENOL (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: HC840203B16 SCANS 504 TO 614

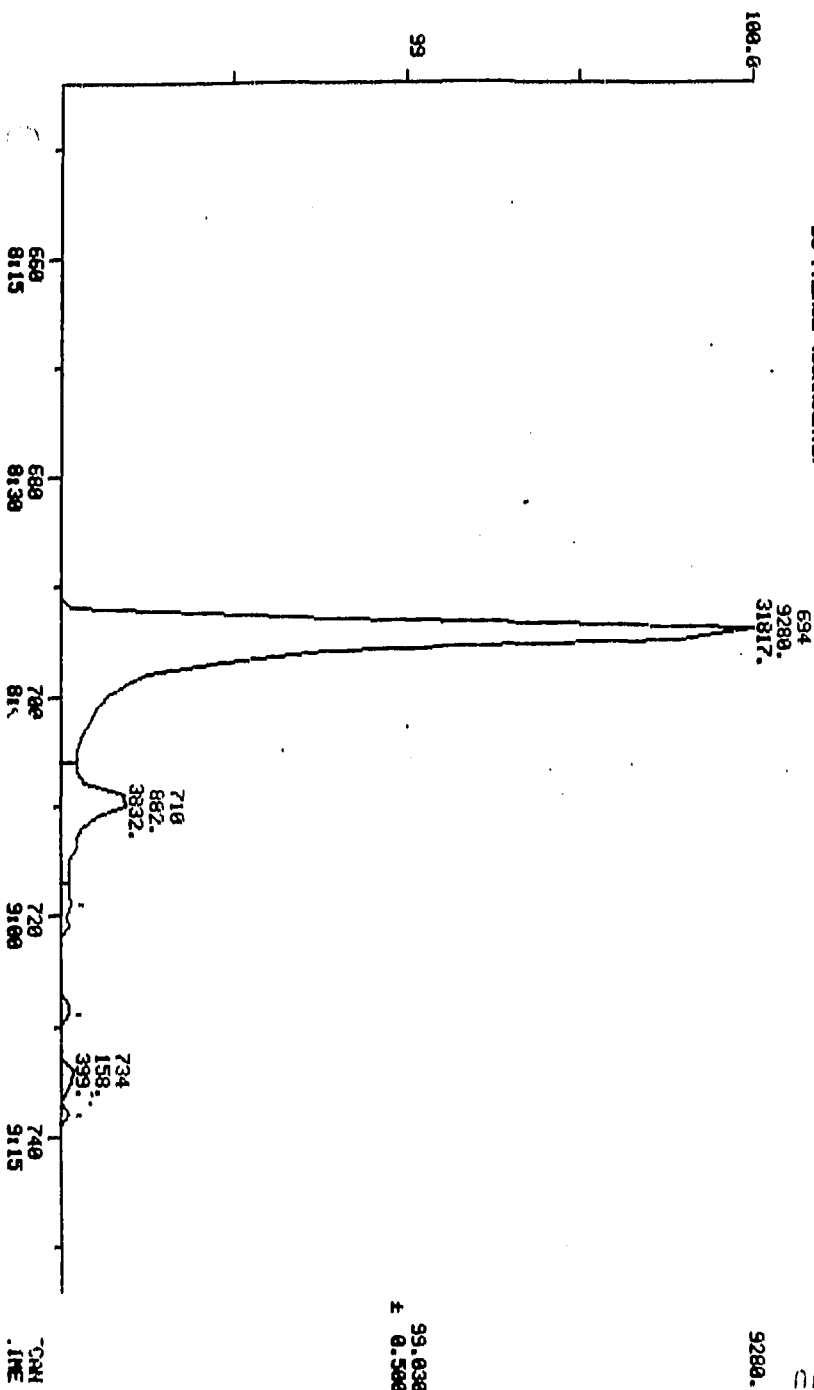


112.034
 ± 0.500

003040

MASS CHROMATOGRAM
 02/03/04 18:04:00
 SAMPLE: 1UL FSCC7 STD 50MG 10914(2342)DN#16
 DS-PHENOL (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: H0340203816 SCANS 644 TO 754



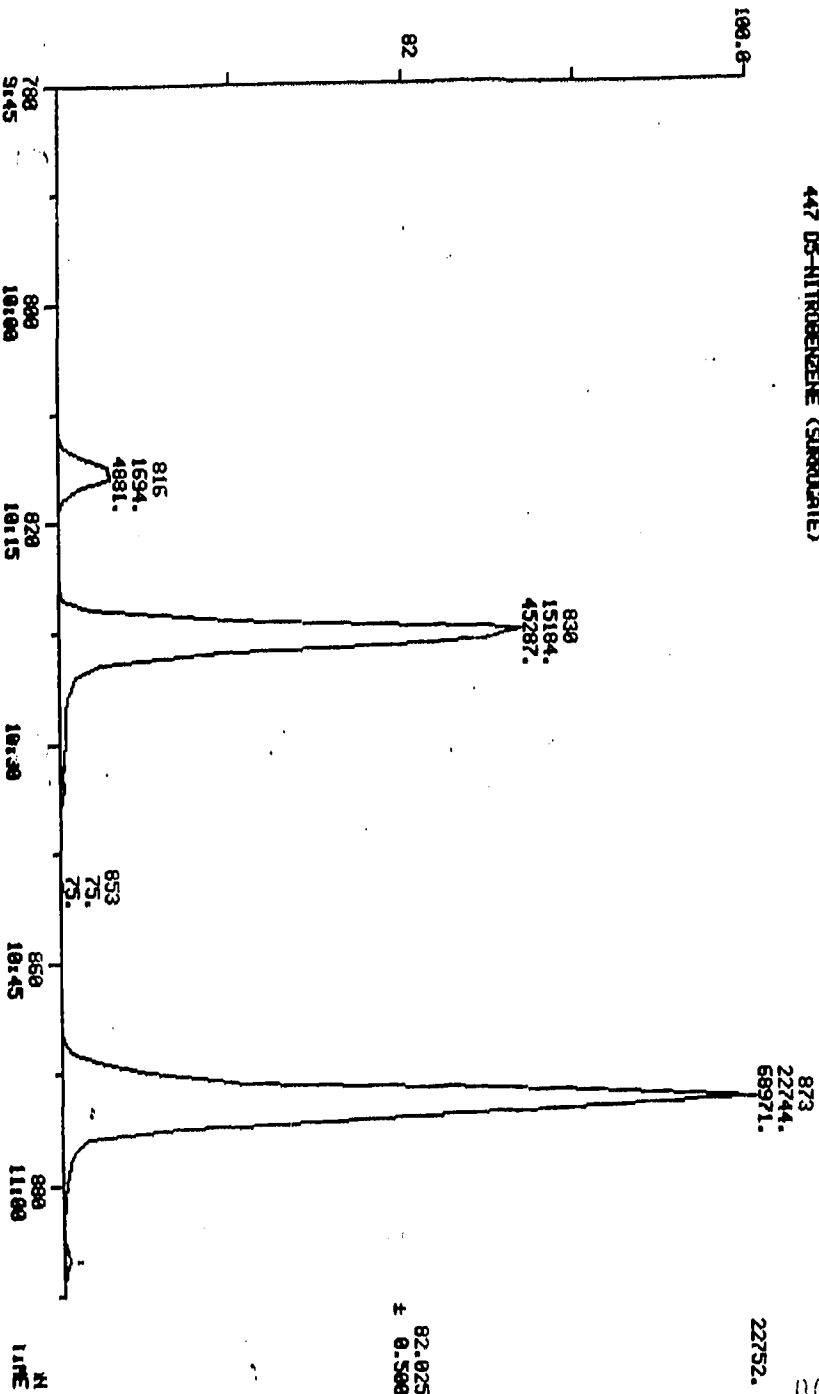
99.038
 ± 0.500

003041
 025351

MASS CHROMATOGRAM
 82/83/84 18:04:08
 SAMPLE: 1UL FSCC7 STD 5ANG 18914(2342)DN#16
 447 D5-NITROBENZENE (SURROGATE)

HEAD CONFUCHEM
 CONFUCHEM DATA: HCB40283816 SCANS 788 TO 898

003042
 025352

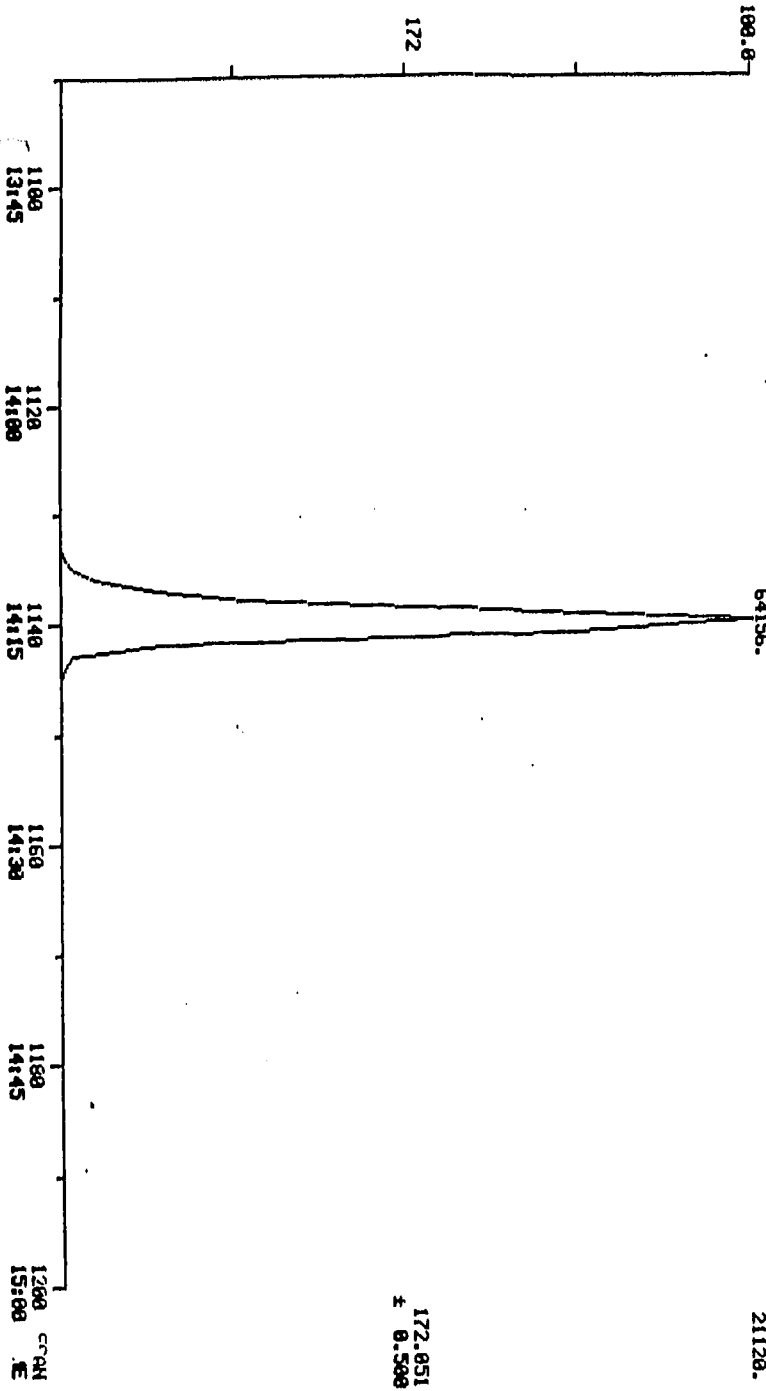


MASS CHROMATOGRAM
 02/03/84 18:04:00
 SAMPLE: 1UL FSDCT STD 58NG 10914(23*2)ON#15
 448 2-FLUOROBIPHENYL (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: HC840203816 SCANS 1090 TO 1200

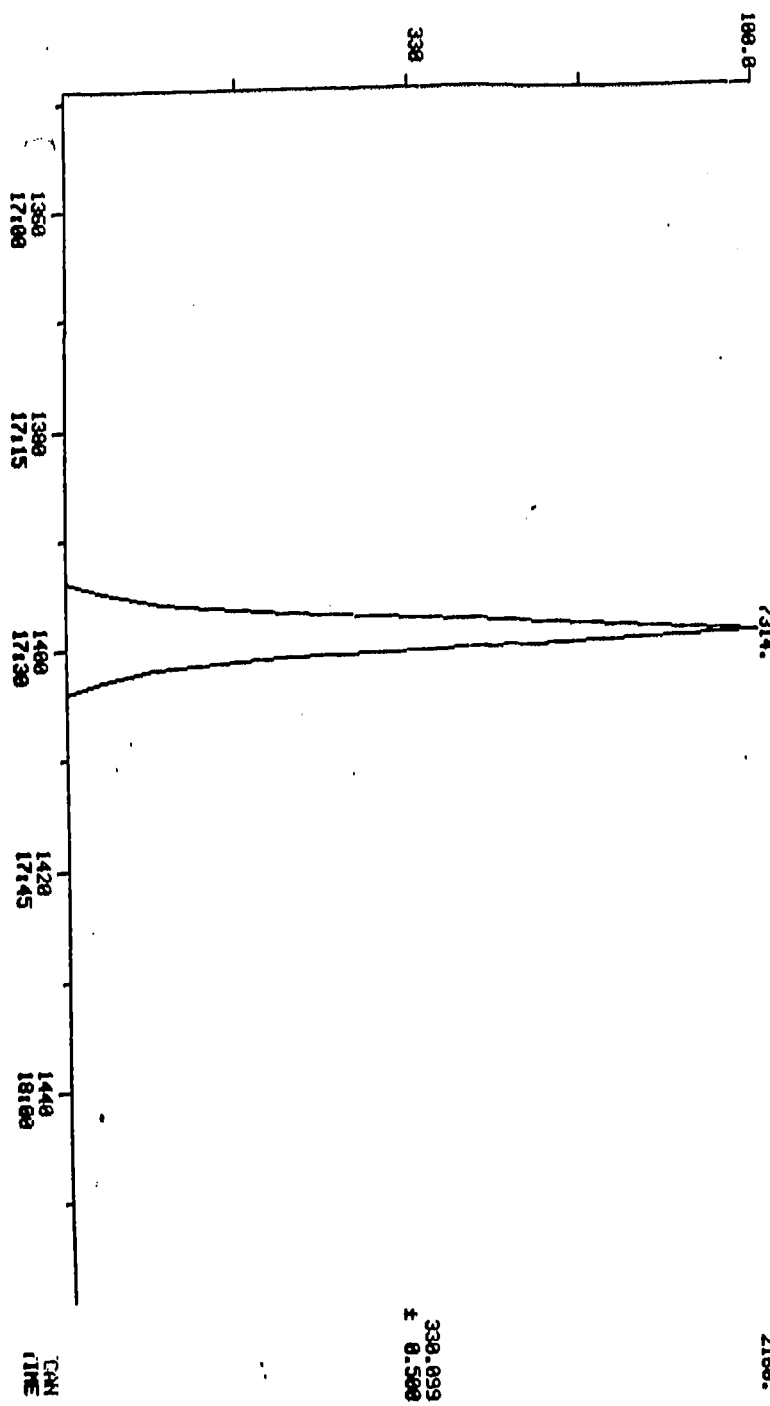
002043

025353



MASS CHROMATOGRAM
 02/03/84 18104100
 SAMPLE: ILL. FSCF7 STD SONG 10914(2342)0N816
 TRIBROMOPHENOL (SURROGATE)

HEAD CONFUCHEN
 CONFUCHEN DATA: HC840203816 SCANS 1349 TO 1459



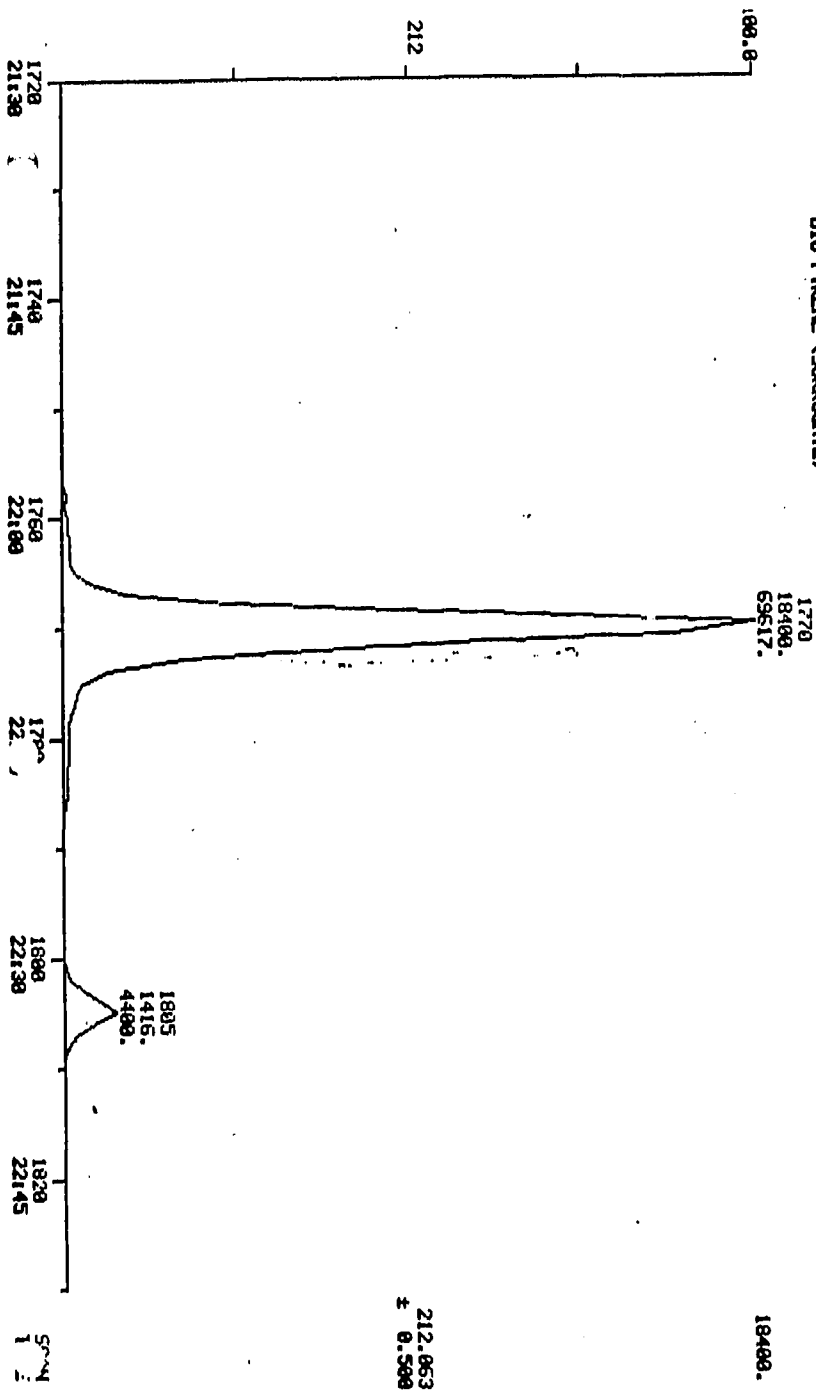
00304.1

025354

8
SECTION XLVI CONTINUED

MASS CHROMATOGRAM
02/03/84 18:04:00
SAMPLE: ILL. ESCCT STD SANG 18914(2342)0N16
DIB-PYRENE (SURROGATE)

HEAD COMPUCHEN
COMPUCHEN DATA: H0340203816 SCANS 1720 TO 1830



003045

025355

MASS CHROMATOGRAM
 02/03/04 18:04:00
 SAMPLE: 11L FSCC7 STD 50NG 10914(2342)ON816
 D14-TERPHEMIL (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: HC840203916 SCANS 1735 TO 1863

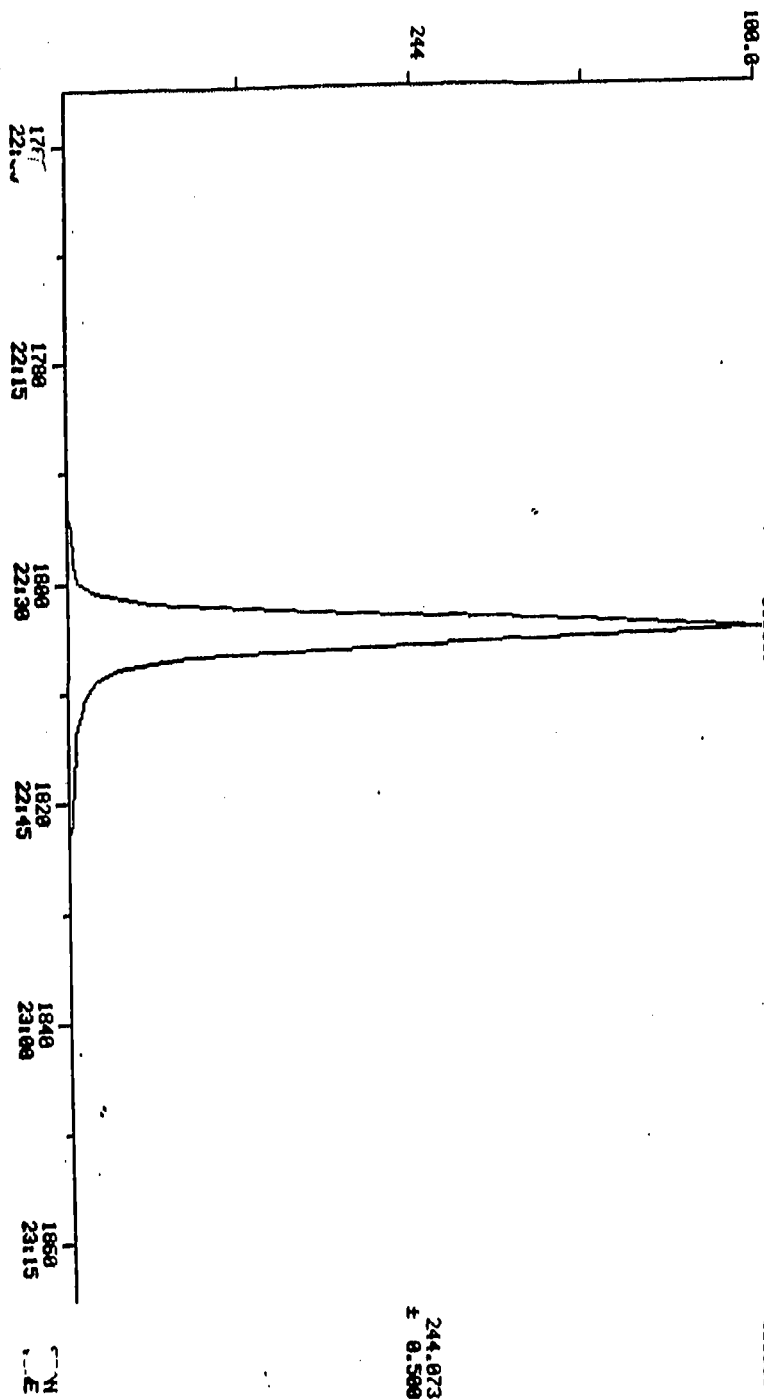
1805
 15696.
 51383.

15696.

003046

025356

31



2333

Mead ComputChem
GC/MS Analysis Log

Initial Time of Tune
Time Tune Elapsed

Run Log

Press Hard, Multiple Copies

02535

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	DH840203B18 KI		✓	1.004	755		163	10956
2	DH840203B16	✓		"	"		"	"
3	HG840203B16			1.004	755		163	10916
4	GJ01942 1B16 ²³³⁰ Ringo			"	"		"	10916
5	GRE0192 65B16 ²³³⁰ Ringo			"	"		"	"
6	GRE019399 B16 ²³³⁰ Ringo			"	"		"	"
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

RH

Mead ComputChem GC/MS Analysis Log

Log Press Hard, Multiple Copies

Initial Time of Run _____
Time Time Elapsed _____
Strife(s) (A) _____ (B) ☒ (C) ☒
Date 2/13/84
Analyte Type 75567 15

Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
3818 KI		☒	1.0 ul	755		163	10956(7050) d10 23-20
03B16	☒		"	"		"	"
03B16			1.0 ul	755		163	10914(2342) 50a
1B16 ²³³⁰ _{R1230}			"	"		"	10955 #033
165B16 ²³³⁰ _{R1230}			"	"		"	"
1399B16 ²³³⁰ _{R1230}			"	"		"	"

PH 2/3/84

FSCC "CHECK STANDARD" TITRATION

POSTED 4 1984

JP

025359

CREATOR

755

0040

STANDARD FILE NAME

HK840205BLC

DATE 2/3/84

01/25/84

CHECK CONCENTRATION	← THREE POINT MULTI-POINT →				CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	20 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR	80 mg RESPONSE FACTOR	MULTIPOINT AVERAGE RESPONSE FACTOR			
1st - Dinitrobenzylamine (8)	.969	.872	.820	.887	0.908	2.4	± difference < 1%
2nd - Dinitrobenzylamine (52)	1.146	1.078	1.096	1.106	1.104	0.2	± difference < 1%
3rd - Dinitrobenzylamine (46)	1.060	1.228	1.040	1.109	1.067	3.8	± difference < 1%
4th - Dinitrobenzylamine (52)	1.099	1.073	1.092	1.088	1.056	2.9	± difference < 1%
5th - Dinitrobenzylamine (57)	1.244	1.012	.970	1.075	1.196	11	± difference < 1%
6th - Dinitrobenzylamine (52)	1.153	.949	.837	.979	1.053	7.6	± difference < 1%
7th - Dinitrobenzylamine (52)	.806	.815	.808	.809	0.840	3.8	± difference < 1%
8th - Dinitrobenzylamine (52)	1.594	1.544	1.468	1.535	1.482	3.4	± difference < 1%
9th - Dinitrobenzylamine (52)	✓		✓		✓		± difference < 1%
10th - Dinitrobenzylamine (52)	✓		✓		✓		± difference < 1%

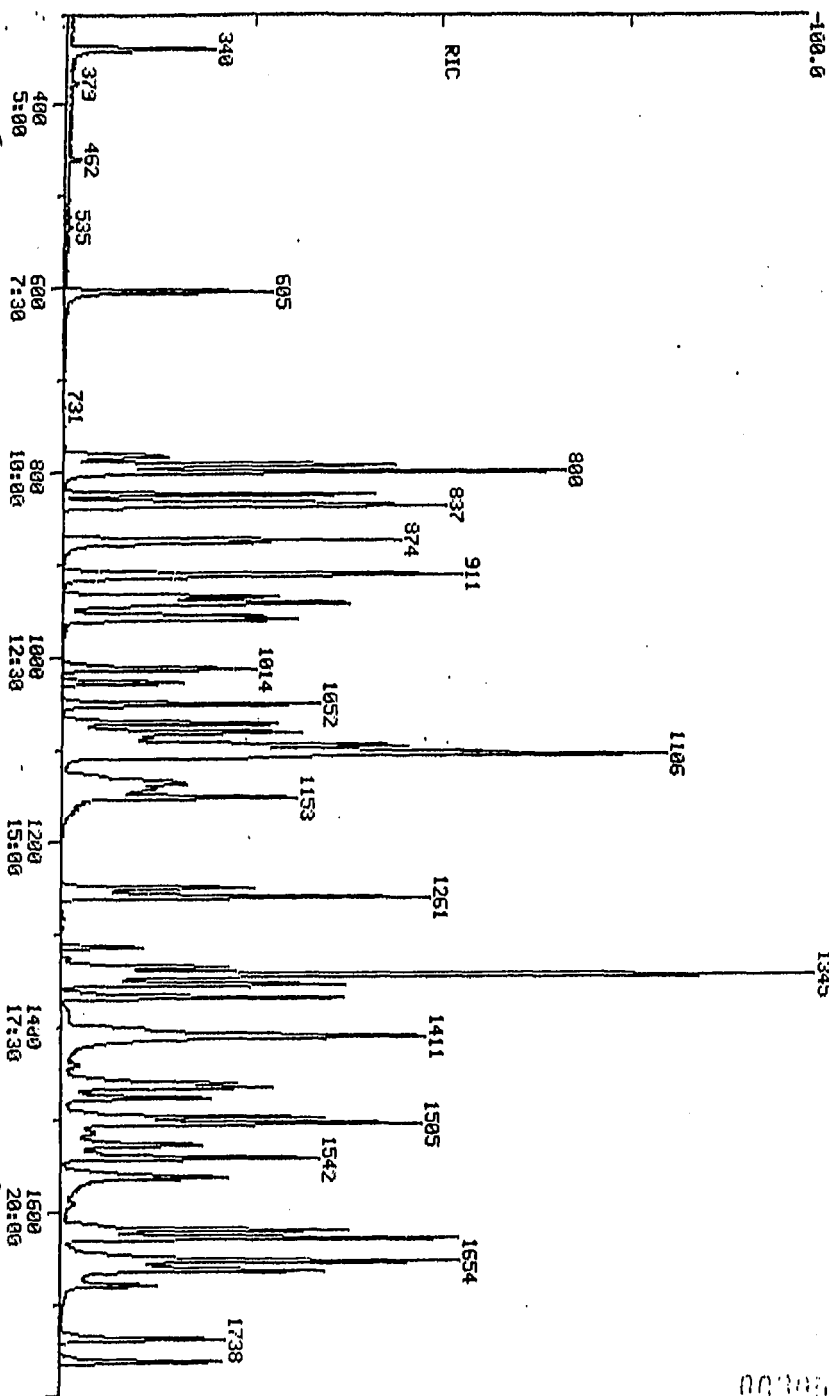
Acceptable Only

Rejection Only

RIC
02/03/84 17:27:00
SAMPLE: IUL FSCCT 10914(2342) 50NG DN#14

MEAD COMPUTHER

COMPUCHEN DATA: H0840203B14 SCANS 300 TO 1800
OUT OF 300 TO 3300



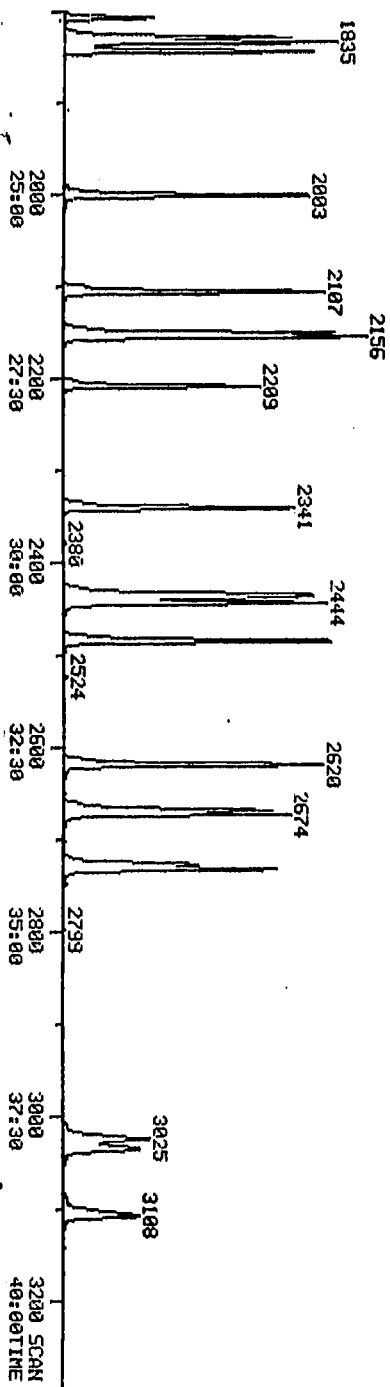
000000
025360

RIC
02/03/84 17:27:00
SAMPLE: IUL FSCCT 10914(2342) 58NG ON#14

MEAD COMPUCHEN

COMPUCHEN DATA: HG840203814 SCANS 1800 TO 3300
OUT OF 300 TO 3300

119840.



PROCEDURE: RK
 DATA FILE: HGB40203B14
 REFERENCE: FSCC7
 METHOD: FSCC7
 REPORT: FSCC7S1

DIAGNOSTIC REPORT

2/03/84. 18:12:3.

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

STANDARDS				PLUS UNKNOWN				LIST NAMES			
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD	UNKNOWN		
6	6	1	47	54	41	1	67	FSCC7S1/FSCC7U1			
6	6	1	47	34	24	1	71	FSCC7S2/FSCC7U2			

82 COMPOUNDS PROCESSED, 59 FOUND

COMPOUND		SEARCH						SAT		CHRD	
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA PEAK
1	C1	1	-830	834	834	1	980	190	834		
2	C2	1	-1098	1102	1102	1	973	136	1102		
3	C3	1	-1494	1498	1498	1	977	144	1498		
4	C4	1	-1826	1831	1830	-1	956	188	1830		
5	C5	1	-2434	2439	2439	1	796	240	2438	-1	
6	C6	1	-2722	2727	2728	1	934	264	2728		
7	C1	2	-331	335				74			
8	C1	3	-789	793	794	1	965	94	794		
9	C1	4	-778	782				93	784		
10	C1	5	-796	800				93	800		
11	C1	6	-796	800				128	800		
12	C1	7	-821	825	825	1	987	146	825		
13	C1	8	-833	837	837	1	991	146	837		
14	C1	9	-873	877	878	1	991	108	877	-1	
15	C1	10	-870	874	874	1	996	146	874		
16	C1	11	-906	910	911	1	987	108	911		
17	C1	12	-907	911				121	910		
18	C1	13	-938	942	943	1	988	108	942	-1	
19	C1	14	-936	940	941	1	985	130	940	-1	
20	C1	15	-931	935	935	1	977	117	935		
21	C1	16	-956	960	960	1	994	123	960		
22	C2	2	-1009	1013	1014	1	977	82	1014		
23	C2	3	-1025	1029	1029	1	994	139	1029		
24	C2	4	-1048	1052	1052	1	998	122	1052		
25	C2	5	-1068	1072	1072	1	966	93	1072		
26	C2	6	-1102	1106				105	1106		
27	C2	7	-1077	1081	1082	1	998	162	1082		
28	C2	8	-1092	1096	1096	1	991	180	1096		
29	C2	9	-1102	1106	1106	1	963	128	1106		
30	C2	10	-1131	1135	1138	3	992	127	1138		
31	C2	11	-1149	1153	1153	1	984	225	1153		
32	C2	12	-1246	1250	1251	1	993	107	1251		
33	C2	13	-1257	1261	1261	1	965	115	1261		
34	C2	14	-1311	1315	1315	1	977	237	1315		
35	C2	15	-1332	1336	1336	1	990	196	1336		
36	C2	16	-1340	1344	1345	1	995	196	1344	-1	
37	C3	2	-1364	1368	1368	1	993	162	1368		
38	C3	3	-1406	1411	1411	1	992	138	1411		
39	C3	4	-1461	1466	1466	1	987	163	1466		
40	C3	5	-1457	1462	1461	-1	973	152	1461		
41	C3	6	-1473	1478	1478	1	996	165	1477	-1	
42	C3	7	-1498	1503				138	1501		
43	C3	8	-1501	1506	1505	-1	978	154	1505		
44	C3	9	-1524	1529	1528	-1	989	184	1528		
45	C3	10	-1554	1559				109	1561		
46	C3	11	-1538	1543				168	1542		
47	C3	12	-1559	1564	1563	-1	991	165	1563		
48	C3	13	-1625	1630				149	1629		
49	C3	14	-1625	1630				204	1629		

51	C3	16	-1644	1649	.	.	.	138	1647	
52	C3	17	-1647	1654	1654	.	1	972	198	1654
53	C3	18	-1657	1662	.	.	.	.	169	1660
54	C3	19	-1660	1665	1664	-1	1	972	77	1664
55	C4	2	-1734	1738	1738	.	1	978	248	1738
56	C4	3	-1758	1762	1762	.	1	981	284	1762
57	C4	4	-1804	1808	1808	.	1	990	266	1808
58	C4	5	-1831	1835	1835	.	1	966	178	1835
59	C4	6	-1841	1845	1845	.	1	976	178	1845
60	C4	7	-1999	2003	2002	-1	1	974	149	2002
61	C4	8	-2103	2107	2107	.	1	973	202	2107
62	C5	2	-2152	2156	2156	.	1	972	202	2156
63	C5	3	.	.	.	.	.	.	184	.
64	C5	4	-2337	2341	2341	.	1	985	149	2341
65	C5	5	-2445	2450	.	.	.	.	252	2448
66	C5	6	-2430	2435	.	.	.	.	228	2435
67	C5	7	-2481	2486	.	.	.	.	149	2485
68	C5	8	-2439	2444	.	.	.	.	228	2444
69	C5	9	-2615	2620	2620	.	1	962	149	2620
70	C6	2	-2664	2669	.	.	.	.	252	2669
71	C6	3	-2668	2673	.	.	.	.	252	2674
72	C6	4	-2727	2732	2733	1	1	958	252	2733
73	C6	5	-3013	3018	.	.	.	.	276	.
74	C6	6	-3024	3029	.	.	.	.	278	.
75	C6	7	-3093	3098	.	.	.	.	276	.
76	C7	2	-600	604	605	1	1	978	112	605
77	C7	3	-787	791	792	1	1	904	99	792
78	C7	4	-953	957	956	-1	1	988	82	956
79	C7	5	-1351	1355	1355	.	1	982	172	1355
80	C7	6	-1676	1680	1680	.	1	952	330	1680
81	C7	7	-2148	2152	2152	.	1	890	212	2152
82	C7	8	-2205	2209	2209	.	1	985	244	2209

002053

025363

QUANTITATION REPORT FILE: HQB40203B14

DATA: HQB40203B14.T1

02/03/84 17:27:00

SAMPLE: 1UL FSCC7 10914(2342) 50NG DN#14

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	440 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

med
2342

003054
025364

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	834	10:25	1	1.000	A VB	42112.	40.000 NG	0.75
2	NOT FOUND	940					39034		
3	94	794	9:55	1	0.952	A BV	53086.	44.496 NG	0.83
4	93	784	9:48	1	0.940	A*BV	41218.	40.664 NG	0.76
5	93	800	10:00	1	0.959	A BV	55332.	54.011 NG	1.01
6	128	800	10:00	1	0.959	A BB	41874.	51.392 NG	0.96
7	146	825	10:19	1	0.989	A BB	43395.	50.244 NG	0.94
8	146	837	10:28	1	1.004	A BB	47861.	51.328 NG	0.96
9	108	877	10:58	1	1.052	A BV	22438.	49.253 NG	0.92
10	146	874	10:55	1	1.048	A BB	40997.	49.870 NG	0.93
11	108	911	11:23	1	1.092	A BV	30684.	51.214 NG	0.95
12	121	910	11:22	1	1.091	A BB	10712.	51.969 NG	0.97
13	108	942	11:46	1	1.129	A BV	34225.	50.486 NG	0.94
14	130	940	11:45	1	1.127	A BB	6416.	63.445 NG	1.18
15	117	935	11:41	1	1.121	A BB	17887.	51.565 NG	0.96
16	123	960	12:00	1	1.151	A BB	18071.	51.608 NG	0.96
17	136	1102	13:46	17	1.000	A BB	74255.	40.000 NG	0.75
18	82	1014	12:40	17	0.920	A BB	66430.	51.359 NG	0.96

77B 2/3/87

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
19	139	1029	12:52	17	0.934	A BB	16341.	51.359 NG	0.96
20	122	1052	13:09	17	0.955	A BB	26632	50.636 NG	0.94
21	93	1072	13:24	17	0.973	A BB	46349.	50.992 NG	0.95
22	105	1106	13:49	17	1.004	A VV	34372	150.937 NG	2.81
23	162	1082	13:31	17	0.982	A BV	22993.	51.413 NG	0.96
24	180	1096	13:42	17	0.995	A BB	29874.	50.164 NG	0.94
25	128	1106	13:49	17	1.004	A BB	109129.	50.874 NG	0.95
26	127	1138	14:13	17	1.033	A BV	55016	162.253 NG	3.02
27	225	1193	14:25	17	1.046	A BB	13895.	49.464 NG	0.92
28	107	1251	15:38	17	1.135	A BB	31405.	53.163 NG	0.99
29	115	1261	15:46	17	1.144	A BB	22517.	50.947 NG	0.95
30	237	1315	16:26	17	1.193	A BB	6762	47.008 NG	0.88
31	196	1336	16:42	17	1.212	A BV	14453.	42.396 NG	0.79
32	196	1344	16:48	17	1.220	A VV	71331.	268.375 NG	5.00
33	164	1498	18:43	33	1.000	A BB	28933.	40.000 NG	0.75
34	162	1368	17:06	33	0.913	A BB	47452.	49.378 NG	0.92
35	138	1411	17:38	33	0.942	A BV	94540.	294.844 NG	5.50
36	163	1466	18:19	33	0.979	A BB	53560.	52.983 NG	0.99
37	152	1461	18:16	33	0.975	A BB	42172.	39.646 NG	0.74
38	165	1477	18:28	33	0.986	A VB	8675.	45.921 NG	0.86
39	138	1501	18:46	33	1.002	A*VV	8087.	270.780 NG	5.05
40	154	1505	18:49	33	1.005	A BB	42239.	47.710 NG	0.93
41	184	1528	19:06	33	1.020	A BV	13219.	277.969 NG	5.18
42	109	1561	19:31	33	1.042	A BV	9501.	127.080 NG	2.37
43	168	1542	19:16	33	1.029	A BB	63409.	49.582 NG	0.92
44	165	1563	19:32	33	1.043	A BB	14010.	54.859 NG	1.02
45	149	1629	20:22	33	1.087	A BB	65835.	55.844 NG	1.04
46	204	1629	20:22	33	1.087	A BB	18717.	49.356 NG	0.92
47	166	1620	20:19	33	1.081	A BB	44870.	49.060 NG	0.91
48	138	1647	20:35	33	1.099	A VV	1912	116.094 NG	2.16
49	198	1654	20:40	33	1.104	A BB	26797.	282.828 NG	5.27
50	169	1660	20:45	33	1.108	A VB	6333	17.487 NG	0.33
51	77	1664	20:48	33	1.111	A VB	64211.	50.705 NG	0.95
52	188	1830	22:52	52	1.000	A BB	46856.	40.000 NG	0.75
53	248	1738	21:43	52	0.950	A BB	10425.	49.164 NG	0.92
54	284	1762	22:01	52	0.963	A BB	14048.	47.958 NG	0.89
55	266	1808	22:36	52	0.988	A BB	7770.	54.058 NG	1.01
56	178	1835	22:56	52	1.003	A BV	68388.	51.467 NG	0.96
57	178	1845	23:04	52	1.008	A VB	56478.	48.864 NG	0.91
58	149	2002	25:01	52	1.094	A BV	104189.	57.863 NG	1.08
59	202	2107	26:20	52	1.151	A BB	70276.	59.051 NG	1.10
60	240	2438	30:28	60	1.000	A BB	34606.	40.000 NG	0.75
61	202	2156	26:57	60	0.884	A BB	74546.	43.396 NG	0.81
62	NOT FOUND								
63	149	2341	29:16	60	0.960	A BV	42920.	53.267 NG	0.99
64	252	2448	30:36	60	1.004	A VB	3149	152.400 NG	2.84
65	228	2435	30:26	60	0.999	A VV	55312.	44.256 NG	0.82
66	149	2485	31:04	60	1.019	A BV	55191.	44.770 NG	0.83
67	228	2444	30:33	60	1.002	A VV	47162.	48.383 NG	0.90
68	149	2620	32:45	60	1.075	A BV	96310.	47.136 NG	0.88
69	264	2728	34:06	69	1.000	A VB	35191.	40.000 NG	0.75
70	252	2669	33:22	69	0.978	A BV	55999.	43.572 NG	0.81
71	252	2674	33:25	69	0.980	A VV	45217.	46.740 NG	0.87
72	252	2733	34:10	69	1.002	A VV	43799.	46.805 NG	0.87
73	NOT FOUND		3025				24641		
74	NOT FOUND		3036				33210		

025866

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	NOT FOUND	3108					33125		
76	112	609	7:34	1	0.725	A BV	36145	51.277 NG	0.96
77	99	792	9:54	17	0.719	A BV	37264	49.223 NG	0.92
78	82	956	11:57	17	0.868	A BB	38425	51.833 NG	0.97
79	172	1355	16:56	17	1.230	A BB	53878	50.999 NG	0.95
80	330	1680	21:00	33	1.121	A BB	6317	53.709 NG	1.00
81	212	2152	26:54	60	0.883	A BV	65826	43.664 NG	0.81
82	244	2209	27:37	52	1.207	A BV	44347	58.379 NG	1.09

NO	RET(L)	RATID	RRT(L)	RATID	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATID
1	10:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:08		0.399			50.00		0.751	
3	9:52	1.01	0.951	1.00	44.50	50.00	1.008	1.133	0.89
4	9:43	1.01	0.937	1.00	40.66	50.00	0.783	0.963	0.81
5	9:57	1.01	0.959	1.00	54.01	50.00	1.051	0.973	1.08
6	9:57	1.01	0.959	1.00	51.39	50.00	0.795	0.774	1.03
7	10:16	1.00	0.989	1.00	50.24	50.00	0.824	0.820	1.00
8	10:25	1.00	1.004	1.00	51.33	50.00	0.902	0.886	1.03
9	10:55	1.00	1.052	1.00	49.25	50.00	0.426	0.433	0.99
10	10:52	1.00	1.048	1.00	49.87	50.00	0.779	0.781	1.00
11	11:19	1.01	1.092	1.00	51.21	50.00	0.983	0.969	1.02
12	11:20	1.00	1.093	1.00	51.97	50.00	0.203	0.196	1.04
13	11:43	1.00	1.130	1.00	50.49	50.00	0.650	0.644	1.01
14	11:42	1.00	1.128	1.00	63.44	50.00	0.122	0.096	1.27
15	11:38	1.00	1.122	1.00	51.56	50.00	0.340	0.329	1.03
16	11:57	1.00	1.132	1.00	51.61	50.00	0.343	0.333	1.03
17	13:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	12:37	1.00	0.919	1.00	51.36	50.00	0.716	0.697	1.03
19	12:49	1.00	0.934	1.00	51.36	50.00	0.176	0.171	1.03
20	13:04	1.00	0.954	1.00	50.64	50.00	0.287	0.283	1.01
21	13:21	1.00	0.973	1.00	50.99	50.00	0.499	0.490	1.02
22	13:46	1.00	1.004	1.00	150.94	250.00	0.074	0.123	0.60
23	13:28	1.00	0.981	1.00	51.41	50.00	0.248	0.241	1.03
24	13:39	1.00	0.995	1.00	50.16	50.00	0.322	0.321	1.00
25	13:46	1.00	1.004	1.00	50.87	50.00	1.176	1.156	1.02
26	14:08	1.01	1.030	1.00	162.25	249.99	0.119	0.183	0.65
27	14:22	1.00	1.046	1.00	49.46	50.00	0.150	0.151	0.99
28	15:34	1.00	1.135	1.00	53.16	50.00	0.338	0.318	1.06
29	15:43	1.00	1.145	1.00	50.95	50.00	0.243	0.238	1.02
30	16:23	1.00	1.194	1.00	47.01	50.00	0.073	0.077	0.94
31	16:39	1.00	1.213	1.00	42.40	50.00	0.156	0.184	0.85
32	16:45	1.00	1.220	1.00	268.37	249.99	0.194	0.143	1.07
33	18:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	17:03	1.00	0.913	1.00	49.38	50.00	1.312	1.329	0.99
35	17:34	1.00	0.941	1.00	294.84	249.99	0.523	0.443	1.18
36	18:16	1.00	0.978	1.00	52.98	50.00	1.481	1.398	1.06
37	18:13	1.00	0.975	1.00	39.65	50.00	1.166	1.471	0.79
38	18:25	1.00	0.986	1.00	45.92	50.00	0.240	0.261	0.92
39	18:43	1.00	1.003	1.00	270.78	249.99	0.045	0.041	1.08
40	18:46	1.00	1.005	1.00	49.71	50.00	1.168	1.175	0.99
41	19:03	1.00	1.020	1.00	277.97	249.99	0.073	0.066	1.11
42	19:25	1.00	1.040	1.00	127.08	125.00	0.105	0.103	1.02
43	19:13	1.00	1.029	1.00	49.58	50.00	1.753	1.768	0.99
44	19:29	1.00	1.044	1.00	54.86	50.00	0.387	0.353	1.10
45	20:19	1.00	1.088	1.00	55.84	50.00	1.820	1.630	1.12
46	20:19	1.00	1.088	1.00	49.36	50.00	0.518	0.524	0.99

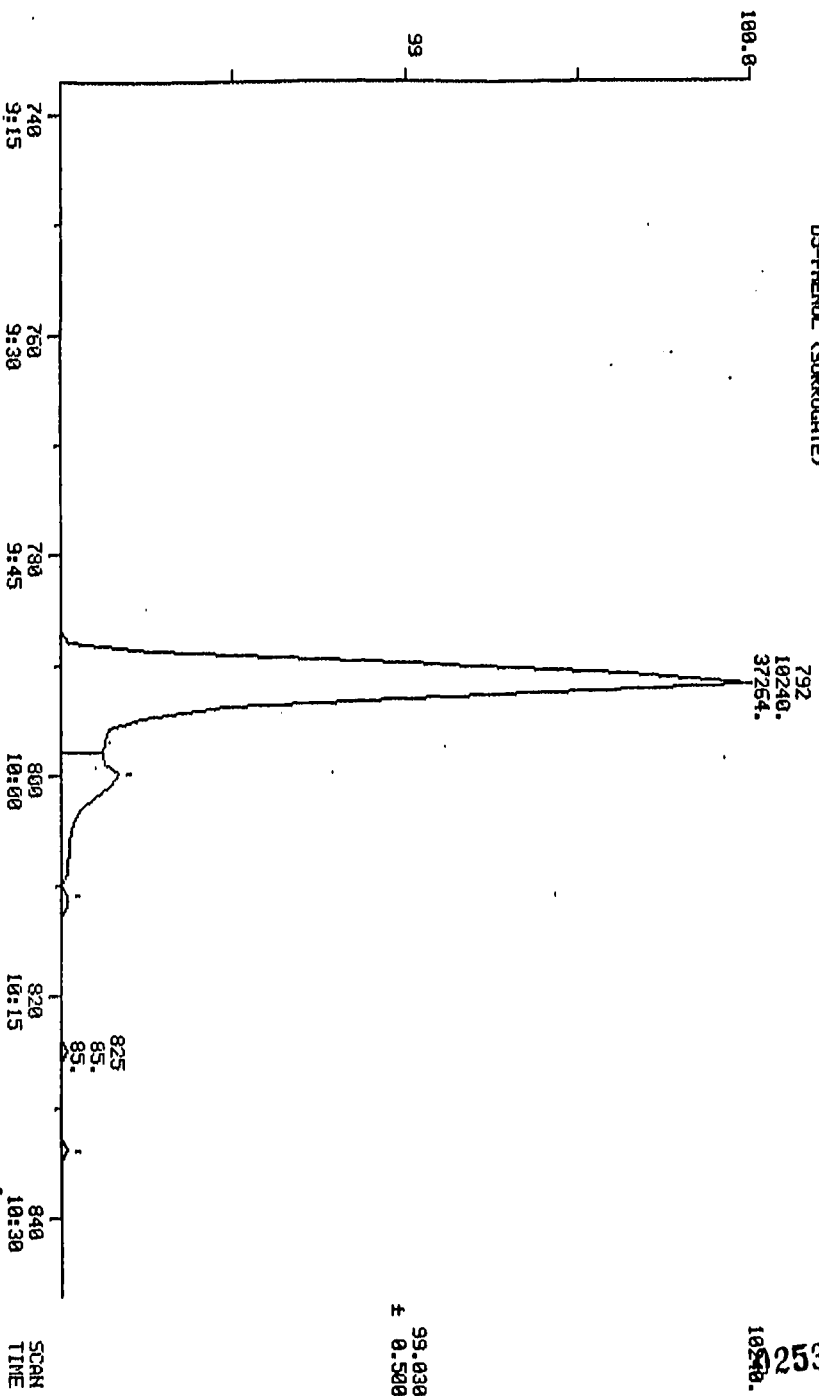
025367
001557

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	20:12	1.00	1.082	1.00	49.06	50.00	1.241	1.264	0.98
48	20:33	1.00	1.100	1.00	116.09	249.99	0.011	0.023	0.46
49	20:37	1.00	1.104	1.00	282.83	249.99	0.148	0.131	1.13
50	20:43	1.00	1.109	1.00	17.49	50.00	0.175	0.501	0.35
51	20:45	1.00	1.111	1.00	50.70	50.00	1.775	1.751	1.01
52	22:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	21:40	1.00	0.950	1.00	49.16	50.00	0.178	0.181	0.98
54	21:58	1.00	0.963	1.00	47.96	50.00	0.240	0.250	0.96
55	22:33	1.00	0.988	1.00	54.06	50.00	0.133	0.123	1.08
56	22:53	1.00	1.003	1.00	51.47	50.00	<u>1.168</u>	1.134	1.03
57	23:01	1.00	1.008	1.00	48.86	50.00	<u>0.964</u>	0.987	0.98
58	24:59	1.00	1.095	1.00	57.86	50.00	<u>1.779</u>	1.537	1.16
59	26:17	1.00	1.152	1.00	59.05	50.00	<u>1.200</u>	1.016	1.18
60	30:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	26:54	1.00	0.884	1.00	43.40	50.00	1.723	1.986	0.87
62	30:01		0.908			50.00		0.010	
63	29:13	1.00	0.960	1.00	53.27	50.00	0.992	0.931	1.07
64	30:34	1.00	1.005	1.00	152.40	50.00	0.073	0.024	3.05
65	30:22	1.00	0.998	1.00	44.26	50.00	1.279	1.445	0.89
66	31:01	1.00	1.019	1.00	44.77	50.00	1.276	1.425	0.90
67	30:29	1.00	1.002	1.00	48.38	50.00	<u>1.090</u>	1.127	0.97
68	32:41	1.00	1.074	1.00	47.14	50.00	<u>2.226</u>	2.362	0.94
69	34:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	33:18	1.00	0.979	1.00	43.57	50.00	1.273	1.461	0.87
71	33:21	1.00	0.980	1.00	46.74	50.00	1.028	1.100	0.93
72	34:05	1.00	1.002	1.00	46.81	50.00	<u>0.996</u>	1.064	0.94
73	37:40		1.107			50.00		0.493	
74	37:48		1.111			50.00		0.452	
75	38:40		1.136			50.00		0.447	
76	7:30	1.01	0.723	1.00	51.28	50.00	0.687	0.670	1.03
77	9:50	1.01	0.717	1.00	49.22	50.00	0.401	0.408	0.98
78	11:55	1.00	0.868	1.00	51.83	50.00	0.414	0.399	1.04
79	16:53	1.00	1.230	1.00	51.00	50.00	0.580	0.569	1.02
80	20:57	1.00	1.122	1.00	53.71	50.00	0.175	0.163	1.07
81	26:51	1.00	0.882	1.00	43.66	50.00	1.522	1.743	0.87
82	27:34	1.00	1.208	1.00	58.38	50.00	0.757	0.648	1.17

000015

MASS CHROMATOGRAM
02/03/84 17:27:00
SAMPLE: ILL FSCC7 10914(2342) 50MG ON#14
DS-PHENOL (SURROGATE)

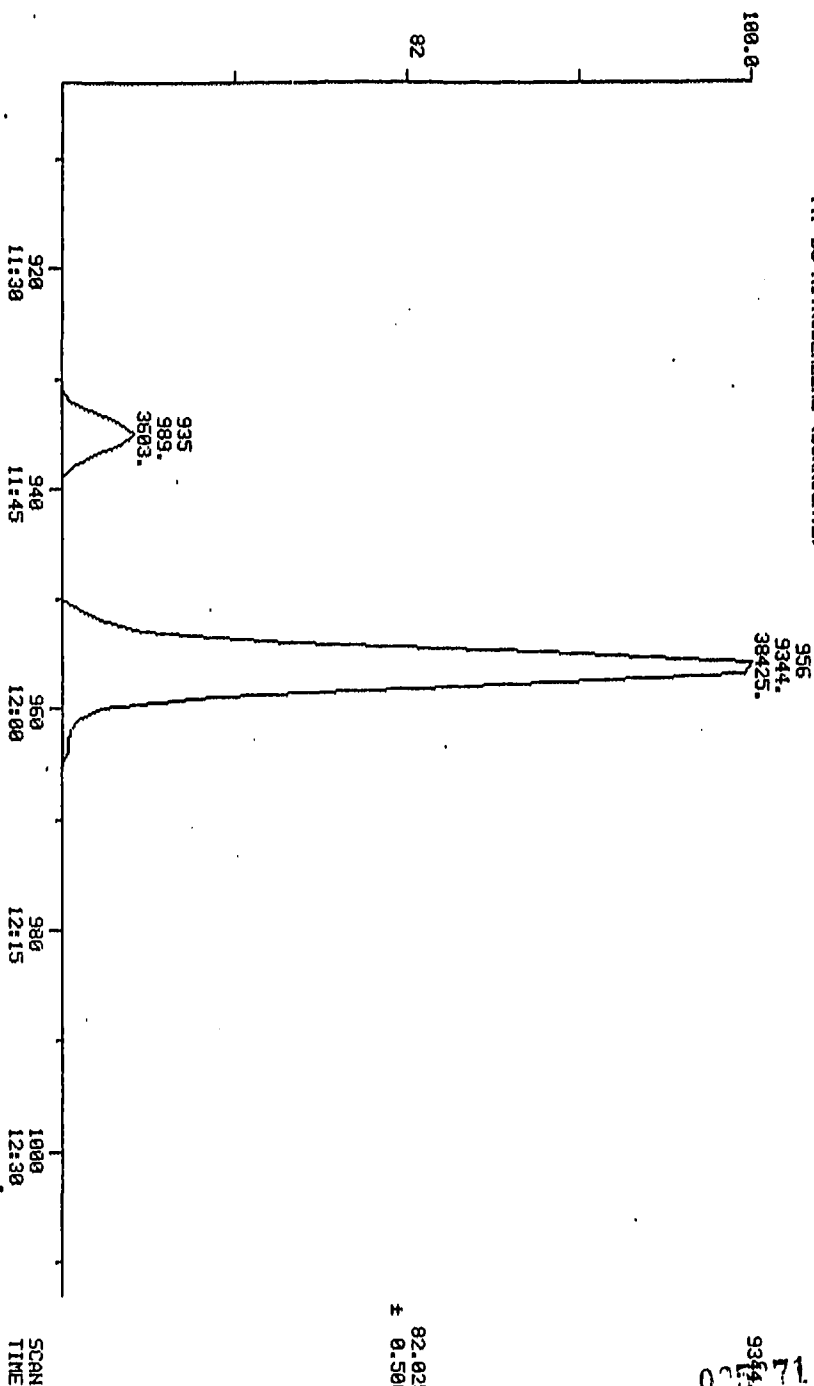
MEAD CONFUCHEN
COMPUCHEN DATA: HG840203B14 SCANS 737 TO 847



025370
10240.
000000

MASS CHROMATOGRAM
02/03/84 17:27:00
SAMPLE: IUL FSCCT 10914(2342) 50NG ON#14
447 DS-NITROBENZENE (SURROGATE)

MEAD COMPUTER
COMPUTER DATA: HC840203B14 SCANS 903 TO 1013



82.025
± 0.500

9344
171
003051

MASS CHROMATOGRAM
 02/03/84 17:27:00
 SAMPLE: III. ESCC7 10914(2342) 50NG ON#14
 448 2-FLUOROBIPHENYL (SURROGATE)

HEAD COMPUCHEN

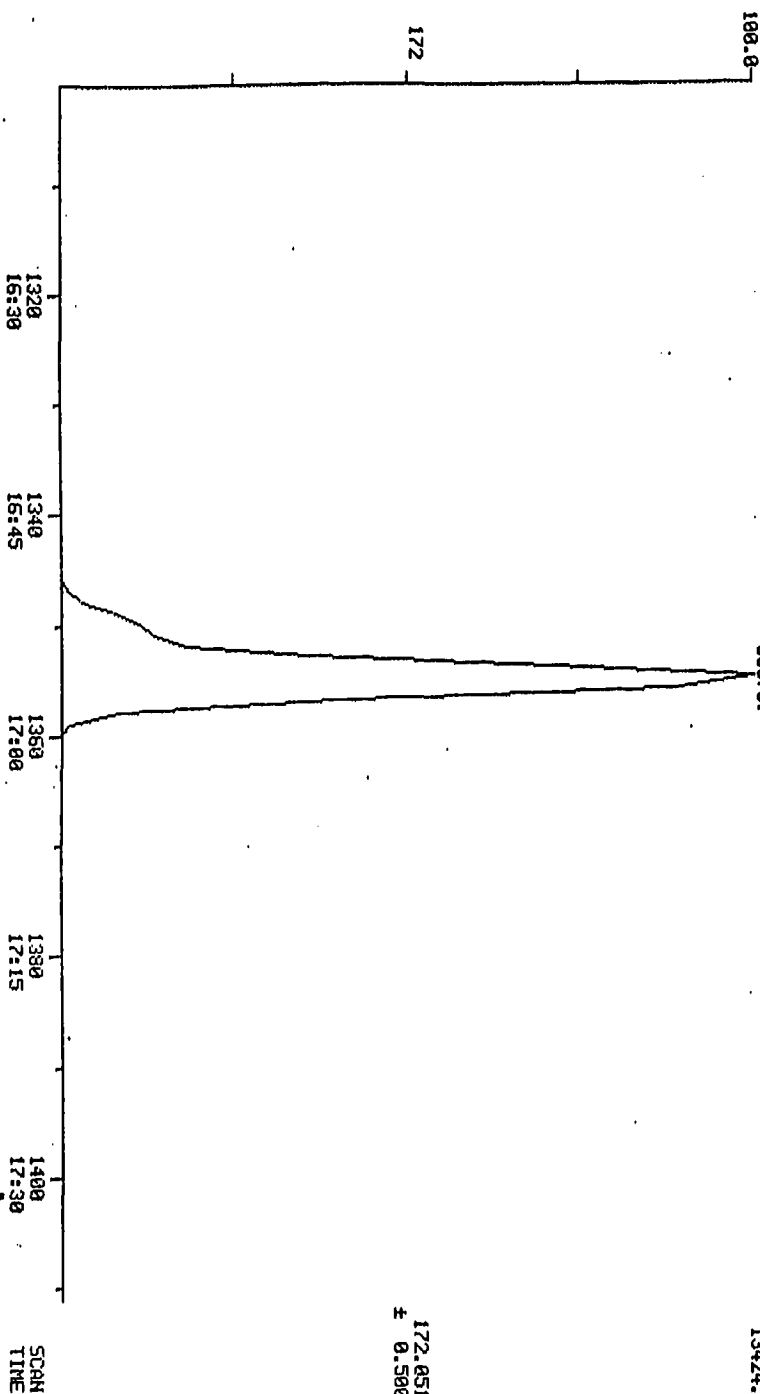
COMPUCHEN DATA: HGS40203814 SCANS 1301 TO 1411

025372

13424.

003062

1355
 13424.
 53878.

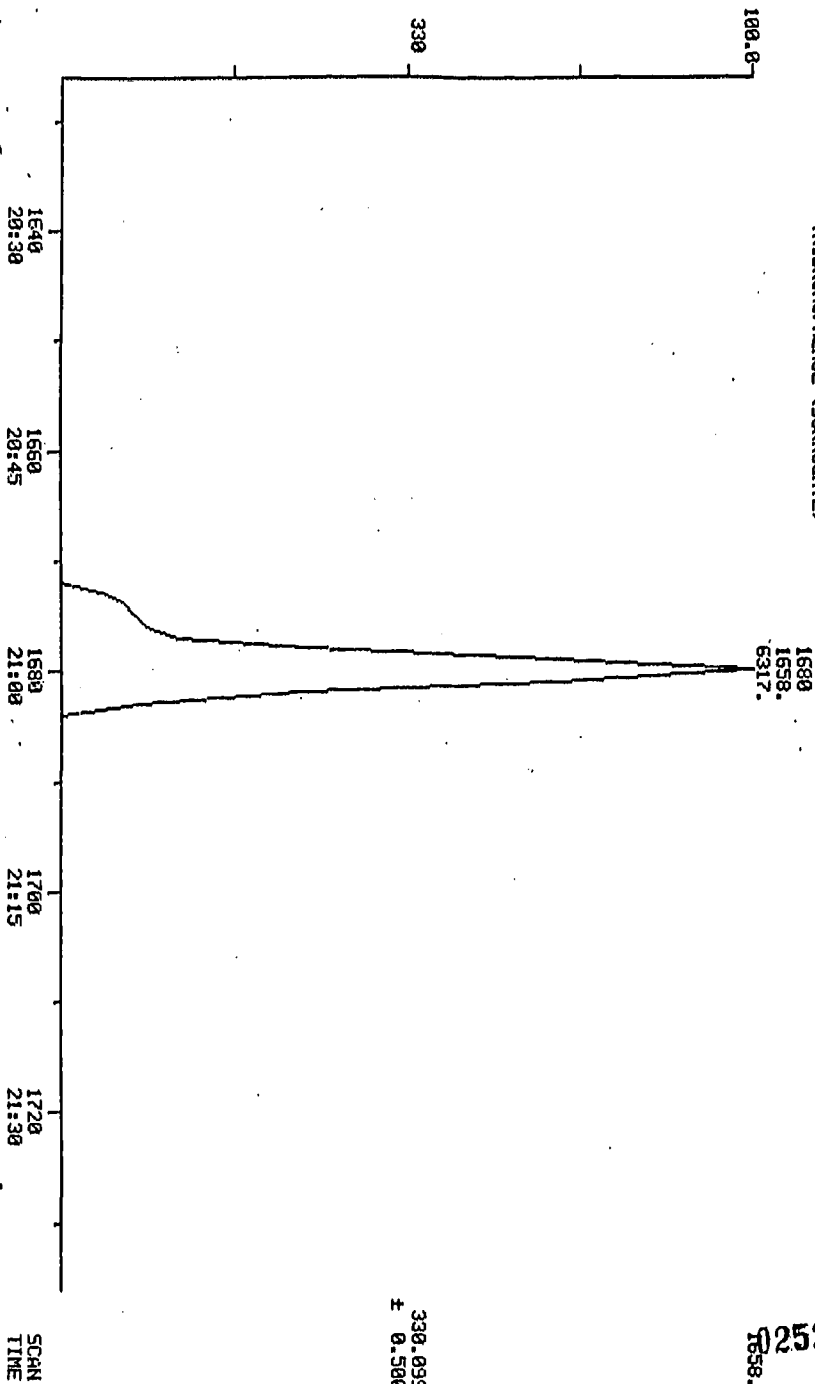


MASS CHROMATOGRAM
 02/03/84 17:22:00
 SAMPLE: 10L FSDC7 18914(2342) 50NG ON#14
 TRIBROMOPHENOL (SURROGATE)

HEAD COMPUCHEN

COMPUCHEN DATA: HG940203814 SCANS 1626 TO 1736

025373
 003043

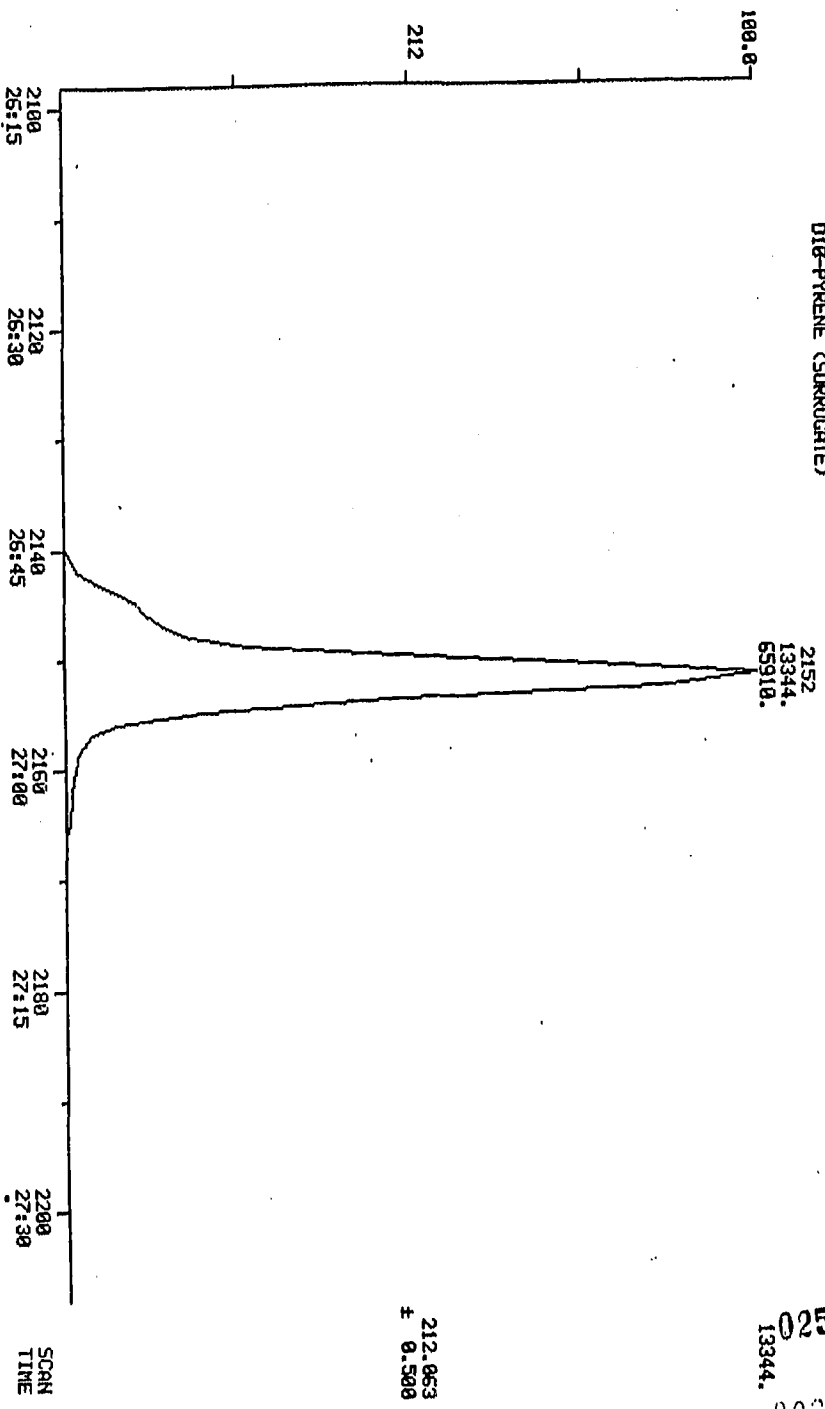


MASS CHROMATOGRAM
 02/03/84 17:27:00
 SAMPLE: IUL-FSCC2 10914(C2342) 50NG ON#14
 DIB-PYRENE (SURROGATE)

MEAD COMPUCHEN

COMPUCHEN DATA: H0340203B14 SCANS 2038 TO 2208

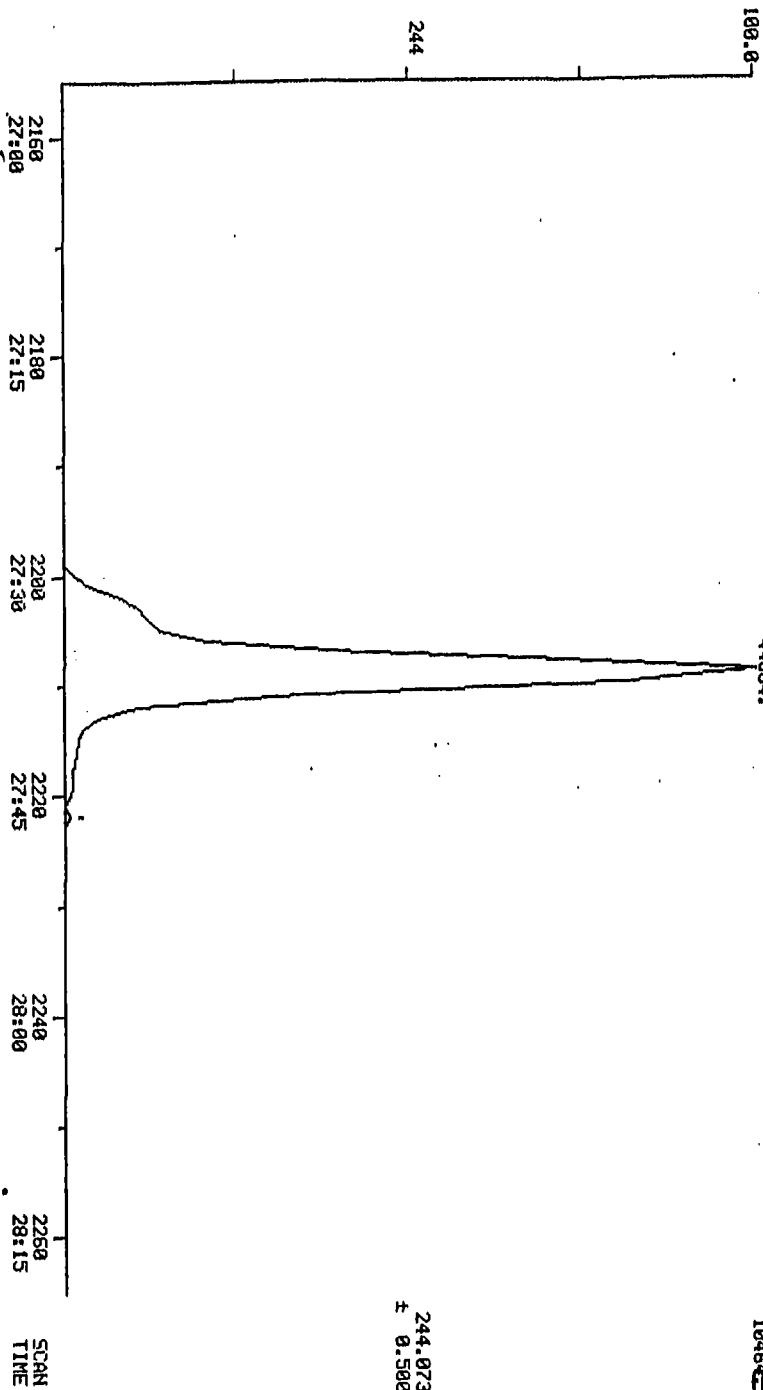
025374
 003064



MASS CHROMATOGRAM
 02/03/84 17:27:00
 SAMPLE: IUL FSCCT 10914(2342) 50NG ON#14
 D14-TERPENEYL (SURROGATE)

MEAD COMPUCHEN
 COMPUCHEN DATA: HG840203B14 SCANS 2155 TO 2265

025375
 000000



Mead Compuchem GC/MS Analysis Log

Initial Time of Tune 03
Time Tune Elapsed 13
Shift/Date 03/03
Analyst 03

Run Log

Press Hard, Multiple Copies

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	CO
1	PH840203 B14	☒	☒	1.0 uL	755		142	~~47028~~
2	~~PH840203 B14~~			"	755			
3	PH840203 B14	☒		1.0 uL	755		142	109141
4	GH019536 B14 ²⁵⁶			"	"		"	10958 H
5	GH019536 B14 ²⁵⁶	☒		"	"		"	"
6	GR019257 B14	☒		"	"		"	"
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

2/21
RN

**Mesa CompuChem
GC/MS Analysis Log**

Initial Time of Tune
Time Tune Elapse .

Shift(s) (A) 213184 (B) ✓ (C) ✓
Date 7/30/84
Analysis Type 7SCC7

025377

Press Hard, Multiple Copies

Time	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
B14	L		1.0 ml	755		142	~~10914~~ 10914
~~3B14~~			"	755			
3B14	C		1.0 ml	755		142	10914 (5047)
36 B14 (0420)			"	"		"	10955 #033
958 B14 -			"	"		"	"
257 B14			"	"		"	"

2/2/84

FSCC "CHECK STANDARD" TITRATION

84 FEB 4 1984
POSTED

STANDARD FILE NAME 116840203814 DATE 2/3/84 OPERATOR 758

25378

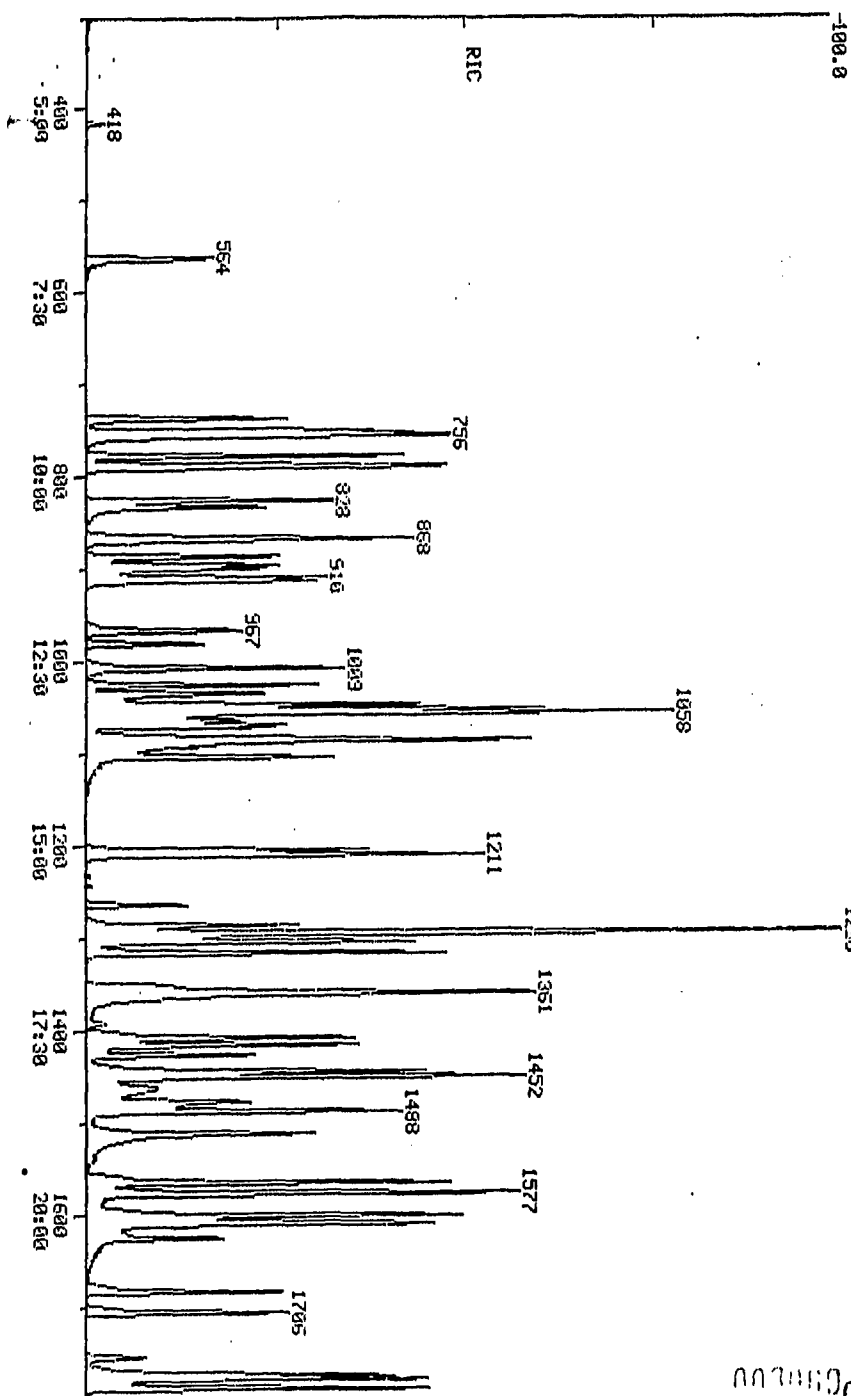
2/1/84

CHECK CONCENTRATION	← THREE POINT MULTI-POINT →			MULTIPOINT AVERAGE RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	20 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR	80 mg RESPONSE FACTOR				
1.0 - Dioxane (10) (10)	0.950	0.919	0.852	0.907	0.909	0.2	5 Difference < 10%
1.1 - Dioxane (10) (10)	1.113	1.160	1.131	1.135	1.176	3.6	5 Difference < 10%
1.2 - Dioxane (10) (10)	1.107	1.051	1.059	1.072	1.168	8.9	5 Difference < 10%
1.3 - Dioxane (10) (10)	1.148	1.211	1.230	1.196	1.168	2.7	5 Difference < 10%
1.4 - Dioxane (10) (10)	1.196	1.076	1.066	1.111	1.090	1.9	5 Difference < 10%
1.5 - Dioxane (10) (10)	1.087	1.047	0.918	1.017	0.996	2.1	5 Difference < 15%
1.6 - Dioxane (10) (10)	0.678	0.725	0.707	0.703	0.716	1.8	5 Difference < 20%
1.7 - Dioxane (10) (10)	1.584	1.677	1.625	1.629	1.779	9.2	5 Difference < 20%
1.8 - Dioxane (10) (10)	✓	✓	✓	✓	✓		Detectable Only
1.9 - Dioxane (10) (10)	✓	✓	✓	✓	✓		Detectable Only

RIC
02/11/84 10:25:00
SAMPLE: IUL STD 2342 (11005)

MEAD COMPUCHEN

COMPUCHEN DATA: HGS40211414 SCANS 300 TO 1500
OUT OF 300 TO 3100



000000 025373

RIC
02/11/84 10:26:00
SAMPLE: IUL STD 2342 (11009)

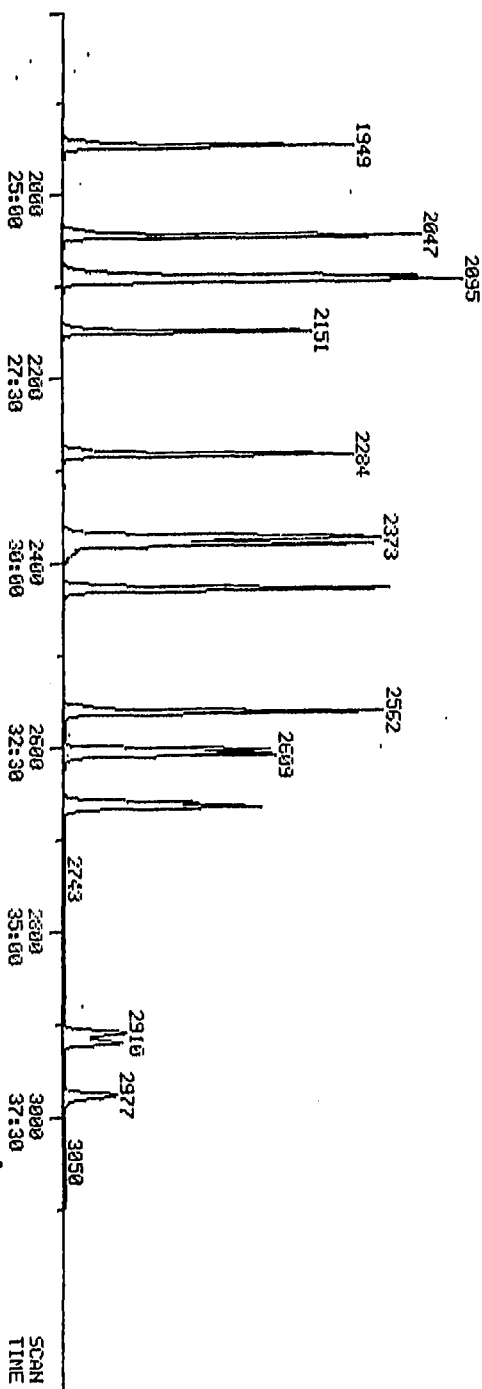
HEAD COMPUCHEN

COMPUCHEN DATA: H0340211614 SCANS 1800 TO 3100
OUT OF 300 TO 3100

1189128

0030005380

31



2/11/84 11:07:1

REFERENCE: FSCC7
METHOD: FSCC7 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: FSCC7S1

82 COMPOUNDS PROCESSED, 62 FOUND

COMPOUND		REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	C1	1	-788	788	789	1	1	968	150	789		
2	C2	1	-1053	1053	1053		1	987	136	1053		
3	C3	1	-1445	1446	1445	-1	1	992	164	1445		
4	C4	1	-1772	1773	1773		1	969	188	1773		
5	C5	1	-2375	2376	2376		1	828	240	2375	-1	
6	C6	1	-2660	2661	2661		1	910	264	2661		
7	C1	2	-299	298	299	1	1	991	74	299		
8	C1	3	-753	753	753		1	978	94	753		
9	C1	4	-757	757					93	758		
10	C1	5	-757	757					93	758		
11	C1	6	-757	757	756	-1	1	973	128	756		
12	C1	7	-779	779	779		1	989	146	779		
13	C1	8	-792	792	791	-1	1	993	146	791		
14	C1	9	-835	835	834	-1	1	995	108	834		
15	C1	10	-827	827	828	1	1	996	146	827	-1	
16	C1	11	-869	869	868	-1	1	988	108	868		
17	C1	12	-867	867					121	866		
18	C1	13	-900	900	900		1	986	108	900		
19	C1	14	-896	896	896		1	985	130	896		
20	C1	15	-888	888	887	-1	1	987	117	887		
21	C1	16	-914	914	914		1	989	123	914		
22	C2	2	-967	967	967		1	989	82	967		
23	C2	3	-982	982	982		1	989	139	982		
24	C2	4	-1007	1007	1009	2	1	996	122	1009		
25	C2	5	-1027	1027	1027		1	966	93	1027		
26	C2	6	-1072	1072	1070	-2	1	979	105	1070		
27	C2	7	-1035	1035	1035		1	988	162	1035		
28	C2	8	-1048	1048	1047	-1	1	990	180	1047		
29	C2	9	-1057	1057	1058	1	1	980	128	1058		
30	C2	10	-1092	1092	1087	-5	1	989	127	1087		
31	C2	11	-1105	1105	1106	1	1	990	225	1106		
32	C2	12	-1205	1205	1206	1	1	967	107	1206		
33	C2	13	-1211	1211	1211		1	969	115	1212	1	
34	C2	14	-1264	1264	1265	1	1	949	237	1265		
35	C2	15	-1286	1286	1287	1	1	984	196	1287		
36	C2	16	-1295	1295	1295		1	994	196	1295		
37	C3	2	-1317	1317	1317		1	992	162	1317		
38	C3	3	-1360	1360	1361	1	1	989	138	1360	-1	
39	C3	4	-1416	1416	1416		1	983	163	1416		
40	C3	5	-1408	1408	1409	1	1	983	152	1409		
41	C3	6	-1427	1427	1427		1	989	165	1427		
42	C3	7	-1450	1450					138	1449		
43	C3	8	-1451	1451	1452	1	1	988	154	1452		

51	C3	16	-1624	1624	1621	-3	1	950	138	1620	-1
52	C3	17	-1600	1600	1601	1	1	993	198	1601	
53	C3	18	-1606	1606					169	1608	
54	C3	19	-1610	1610	1610		1	988	77	1610	
55	C4	2	-1683	1683	1683		1	983	248	1683	
56	C4	3	-1706	1706	1706		1	977	284	1706	
57	C4	4	-1752	1752					266	1754	
58	C4	5	-1777	1777	1777		1	978	178	1777	
59	C4	6	-1787	1787	1787		1	983	178	1787	
60	C4	7	-1948	1948	1949	1	1	979	149	1949	
61	C4	8	-2047	2047	2047		1	972	202	2047	
62	C5	2	-2095	2095	2095		1	971	202	2095	
63	C5	3							184		
64	C5	4	-2284	2285	2284	-1	1	982	149	2284	
65	C5	5							252		
66	C5	6	-2372	2373					228	2372	
67	C5	7	-2430	2431					149	2429	
68	C5	8	-2381	2382					228	2381	
69	C5	9	-2562	2563	2562	-1	1	975	149	2562	
70	C6	2	-2603	2604					252	2604	
71	C6	3	-2607	2608					252	2608	
72	C6	4	-2665	2666					252	2665	
73	C6	5	-2908	2909					276	2909	
74	C6	6	-2917	2918					278	2920	
75	C6	7	-2974	2975					276	2977	
76	C7	2	-566	566	564	-2	1	988	112	564	
77	C7	3	-752	752	751	-1	1	905	99	750	-1
78	C7	4	-910	910	910		1	992	82	910	
79	C7	5	-1305	1305	1306	1	1	990	172	1306	
80	C7	6	-1625	1625	1626	1	1	964	330	1625	-1
81	C7	7	-2091	2091	2091		1	897	212	2091	
82	C7	8	-2150	2150	2151	1	1	979	244	2151	

QUANTITATION REPORT FILE: HGB40211A14

DATA: HGB40211A14.TI

02/11/84 10:26:00

SAMPLE: 1UL STD 2342 (11009)

SUBMITTED BY: 14

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-NITROSODIMETHAMINE
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 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-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

med
2342

003073
025383

NO NAME
 47 432 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'-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	789	9:52	1	1.000	A VB	42388.	40.000 NG	0.58
2	74	299	3:44	1	0.379	A BB	19171.	47.463 NG	0.69
3	94	753	9:25	1	0.954	A BV	51685.	50.734 NG	0.74
4	93	788	9:28	1	0.961	A VB	52722.	105.800 NG	1.55
5	93	758	9:28	1	0.961	A VB	44016.	104.553 NG	1.53
6	128	756	9:27	1	0.958	A BB	39314.	51.055 NG	0.75
7	146	779	9:44	1	0.987	A BV	45415.	50.868 NG	0.74
8	146	791	9:53	1	1.003	A VB	48279.	49.215 NG	0.72
9	108	834	10:25	1	1.057	A BV	22919.	50.894 NG	0.74
10	146	827	10:20	1	1.048	A BB	43740.	49.936 NG	0.73
11	108	868	10:51	1	1.100	A BB	31144.	49.838 NG	0.73
12	121	866	10:49	1	1.098	A BB	11165.	50.590 NG	0.74
13	108	900	11:15	1	1.141	A BV	37932.	51.524 NG	0.75
14	130	896	11:12	1	1.136	A BB	6568.	49.880 NG	0.73
15	117	887	11:05	1	1.124	A BB	16470.	53.533 NG	0.78
16	123	914	11:25	1	1.158	A BB	20680.	50.622 NG	0.74
17	136	1053	13:10	17	1.000	A BB	82228.	40.000 NG	0.58
18	82	967	12:05	17	0.918	A BV	64393.	50.204 NG	0.73

003074

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HOHT)	AMOUNT	%TOT
19	139	982	12:16	17	0.933	A BB	17373.	48.869 NG	0.71
20	122	1009	12:37	17	0.958	A BB	33267.	50.182 NG	0.73
21	93	1027	12:50	17	0.975	A BB	46751.	51.934 NG	0.76
22	105	1070	13:22	17	1.016	A*VV	43325.	194.493 NG	2.84
23	162	1035	12:56	17	0.983	A BV	28393.	48.407 NG	0.71
24	180	1047	13:05	17	0.994	A BB	36960.	48.912 NG	0.71
25	128	1058	13:13	17	1.005	A BB	118904.	51.292 NG	0.75
26	127	1087	13:35	17	1.032	A BV	138134.	404.145 NG	5.91
27	225	1106	13:49	17	1.050	A BB	17457.	49.983 NG	0.73
28	107	1206	15:04	17	1.145	A BB	37876.	52.284 NG	0.76
29	115	1212	15:09	17	1.151	A BB	27006.	51.143 NG	0.75
30	237	1265	15:49	17	1.201	A BB	9429.	56.964 NG	0.83
31	196	1287	16:05	17	1.222	A BV	21534.	48.026 NG	0.70
32	196	1295	16:11	17	1.230	A VV	102682.	266.483 NG	3.89
33	164	1445	18:04	33	1.000	A BB	43276.	40.000 NG	0.58
34	162	1317	16:28	33	0.911	A BB	66328.	49.104 NG	0.72
35	138	1360	17:00	33	0.941	A BV	121402.	278.198 NG	4.07
36	163	1416	17:42	33	0.980	A BB	80394.	53.705 NG	0.78
37	152	1409	17:37	33	0.975	A BB	81005.	83.455 NG	1.22
38	165	1427	17:50	33	0.988	A VB	15824.	65.231 NG	0.95
39	138	1449	18:07	33	1.003	A*BV	16618.	412.180 NG	6.02
40	154	1452	18:09	33	1.005	A BB	62456.	50.041 NG	0.73
41	184	1478	18:28	33	1.023	A BV	21937.	268.991 NG	3.93
42	109	1512	18:54	33	1.046	A BV	6001.	46.275 NG	0.68
43	168	1488	18:36	33	1.030	A BB	92345.	49.913 NG	0.73
44	165	1512	18:54	33	1.046	A BB	22029.	57.492 NG	0.84
45	149	1578	19:43	33	1.092	A BB	83726.	54.989 NG	0.80
46	204	1576	19:42	33	1.091	A BB	28172.	51.495 NG	0.75
47	166	1565	19:34	33	1.083	A BB	70111.	50.903 NG	0.74
48	138	1620	20:15	33	1.121	A*VV	8323.	938.465 NG	13.71
49	198	1601	20:01	33	1.108	A BB	40275.	301.058 NG	4.40
50	169	1608	20:06	33	1.113	A BB	34316.	107.867 NG	1.58
51	77	1610	20:07	33	1.114	A VV	79229.	53.441 NG	0.78
52	188	1773	22:10	52	1.000	A BB	73964.	40.000 NG	0.58
53	248	1683	21:02	52	0.949	A BB	16286.	49.666 NG	0.73
54	284	1706	21:19	52	0.962	A BB	20968.	48.538 NG	0.71
55	266	1754	21:55	52	0.989	A BV	8013.	44.395 NG	0.65
56	178	1777	22:13	52	1.002	A BV	108716.	49.831 NG	0.73
57	178	1787	22:20	52	1.008	A VB	87394.	50.923 NG	0.74
58	149	1949	24:22	52	1.099	A BV	137216.	52.308 NG	0.76
59	202	2047	25:35	52	1.155	A BV	102155.	56.057 NG	0.82
60	240	2375	29:41	60	1.000	A BB	42487.	40.000 NG	0.58
61	202	2095	26:11	60	0.882	A BB	103759.	42.211 NG	0.62
62	NOT FOUND								
63	149	2284	28:33	60	0.962	A BB	55421.	44.656 NG	0.65
64	NOT FOUND								
65	228	2372	29:39	60	0.999	A BV	73818.	46.114 NG	0.67
66	149	2429	30:22	60	1.023	A BV	76129.	39.801 NG	0.58
67	228	2381	29:46	60	1.003	A VV	60355.	46.443 NG	0.68
68	149	2562	32:01	60	1.079	A BV	125394.	41.830 NG	0.61
69	264	2661	33:16	69	1.000	A BB	28887.	40.000 NG	0.58
70	252	2604	32:33	69	0.979	A BV	50580.	43.100 NG	0.63
71	252	2608	32:36	69	0.980	A VV	41611.	43.440 NG	0.63
72	252	2665	33:19	69	1.002	A BV	40728.	50.708 NG	0.74
73	276	2909	36:22	69	1.093	A BV	19024.	52.552 NG	0.77
74	278	2920	36:30	69	1.097	A BB	17070.	67.002 NG	0.98

003075

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	276	2977	37:13	69	1.119	A BV	18433.	68.834 NG	1.01
76	112	564	7:03	1	0.715	A BV	28876.	45.484 NG	0.66
77	99	750	9:22	17	0.712	A BB	42285.	49.922 NG	0.73
78	82	910	11:22	17	0.864	A BB	40324.	50.032 NG	0.73
79	172	1306	16:19	17	1.240	A BB	72626.	50.862 NG	0.74
80	330	1625	20:19	33	1.125	A BB	8659	58.814 NG	0.86
81	212	2091	26:08	60	0.880	A BB	90323.	42.126 NG	0.62
82	244	2151	26:53	52	1.213	A BB	60541.	54.835 NG	0.80

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:44	1.00	0.379	1.00	47.46	50.00	0.362	0.381	0.95
3	9:25	1.00	0.956	1.00	50.73	50.00	0.975	0.961	1.01
4	9:28	1.00	0.961	1.00	105.80	100.00	0.415	0.393	1.06
5	9:28	1.00	0.961	1.00	104.55	100.00	0.415	0.397	1.05
6	9:28	1.00	0.961	1.00	51.05	50.00	0.742	0.727	1.02
7	9:44	1.00	0.989	1.00	50.87	50.00	0.857	0.842	1.02
8	9:54	1.00	1.005	1.00	49.22	50.00	0.911	0.926	0.98
9	10:26	1.00	1.060	1.00	50.89	50.00	0.433	0.425	1.02
10	10:20	1.00	1.049	1.00	49.94	50.00	0.826	0.827	1.00
11	10:52	1.00	1.103	1.00	49.84	50.00	0.588	0.590	1.00
12	10:50	1.00	1.100	1.00	50.59	50.00	0.211	0.208	1.01
13	11:15	1.00	1.142	1.00	51.52	50.00	0.716	0.695	1.03
14	11:12	1.00	1.137	1.00	49.88	50.00	0.124	0.124	1.00
15	11:06	1.00	1.127	1.00	53.53	50.00	0.311	0.290	1.07
16	11:25	1.00	1.160	1.00	50.62	50.00	0.390	0.386	1.01
17	13:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	12:05	1.00	0.918	1.00	50.20	50.00	0.626	0.624	1.00
19	12:16	1.00	0.933	1.00	48.87	50.00	0.169	0.173	0.98
20	12:35	1.00	0.956	1.00	50.18	50.00	0.324	0.322	1.00
21	12:50	1.00	0.975	1.00	51.93	50.00	0.455	0.438	1.04
22	13:24	1.00	1.018	1.00	194.49	250.00	0.084	0.108	0.78
23	12:56	1.00	0.983	1.00	48.41	50.00	0.276	0.285	0.97
24	13:06	1.00	0.995	1.00	48.91	50.00	0.360	0.368	0.98
25	13:13	1.00	1.004	1.00	51.29	50.00	1.157	1.128	1.03
26	13:39	1.00	1.037	1.00	404.14	249.99	0.269	0.166	1.62
27	13:49	1.00	1.049	1.00	49.98	50.00	0.170	0.170	1.00
28	15:04	1.00	1.144	1.00	52.28	50.00	0.369	0.352	1.05
29	15:08	1.00	1.150	1.00	51.14	50.00	0.263	0.257	1.02
30	15:48	1.00	1.200	1.00	56.96	50.00	0.092	0.081	1.14
31	16:04	1.00	1.221	1.00	48.03	50.00	0.210	0.218	0.96
32	16:11	1.00	1.230	1.00	266.48	249.99	0.200	0.187	1.07
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	49.10	50.00	1.226	1.249	0.98
35	17:00	1.00	0.941	1.00	278.20	249.99	0.449	0.403	1.11
36	17:42	1.00	0.980	1.00	53.71	50.00	1.486	1.384	1.07
37	17:36	1.00	0.974	1.00	83.46	50.00	1.497	0.897	1.67
38	17:50	1.00	0.988	1.00	65.23	50.00	0.293	0.224	1.30
39	18:07	1.00	1.003	1.00	412.18	249.99	0.061	0.037	1.65
40	18:08	1.00	1.004	1.00	50.06	50.00	1.155	1.153	1.00
41	18:27	1.00	1.021	1.00	268.99	249.99	0.081	0.075	1.08
42	18:52	1.00	1.044	1.00	46.28	125.00	0.044	0.120	0.37
43	18:36	1.00	1.030	1.00	49.91	50.00	1.707	1.710	1.00
44	18:53	1.00	1.046	1.00	57.49	50.00	0.407	0.354	1.15
45	19:43	1.00	1.092	1.00	54.99	50.00	1.548	1.407	1.10
46	19:42	1.00	1.091	1.00	51.50	50.00	0.521	0.506	1.03

003076
025386

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	50.90	50.00	1.296	1.273	1.02
48	20:18	1.00	1.124	1.00	938.46	249.99	0.031	0.008	3.75
49	20:00	1.00	1.107	1.00	301.06	249.99	0.149	0.124	1.20
50	20:04	1.00	1.111	1.00	107.87	50.00	0.634	0.294	2.16
51	20:07	1.00	1.114	1.00	53.44	50.00	1.465	1.370	1.07
52	22:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	21:02	1.00	0.950	1.00	49.67	50.00	0.176	0.177	0.99
54	21:19	1.00	0.963	1.00	48.54	50.00	0.227	0.234	0.97
55	21:54	1.00	0.989	1.00	44.40	50.00	0.087	0.098	0.89
56	22:13	1.00	1.003	1.00	49.83	50.00	1.176	1.180	1.00
57	22:20	1.00	1.008	1.00	50.92	50.00	0.945	0.928	1.02
58	24:21	1.00	1.099	1.00	52.31	50.00	1.484	1.419	1.05
59	25:35	1.00	1.155	1.00	56.06	50.00	1.105	0.986	1.12
60	29:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	26:11	1.00	0.882	1.00	42.21	50.00	1.954	2.314	0.84
62	26:59		0.908			50.00		0.010	
63	28:33	1.00	0.962	1.00	44.66	50.00	1.044	1.168	0.89
64	30:43		1.007			50.00		0.018	
65	29:39	1.00	0.999	1.00	46.11	50.00	1.390	1.507	0.92
66	30:22	1.00	1.023	1.00	39.80	50.00	1.433	1.801	0.80
67	29:46	1.00	1.003	1.00	46.44	50.00	1.136	1.223	0.93
68	32:01	1.00	1.079	1.00	41.83	50.00	2.361	2.822	0.84
69	33:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	32:32	1.00	0.979	1.00	43.10	50.00	1.401	1.625	0.86
71	32:35	1.00	0.980	1.00	43.44	50.00	1.152	1.326	0.87
72	33:19	1.00	1.002	1.00	50.71	50.00	1.128	1.112	1.01
73	36:21	1.00	1.093	1.00	52.55	50.00	0.527	0.501	1.05
74	36:28	1.00	1.097	1.00	67.00	50.00	0.473	0.353	1.34
75	37:10	1.00	1.118	1.00	68.83	50.00	0.510	0.371	1.38
76	7:04	1.00	0.718	1.00	45.48	50.00	0.545	0.599	0.91
77	9:24	1.00	0.714	1.00	49.92	50.00	0.411	0.412	1.00
78	11:22	1.00	0.864	1.00	50.03	50.00	0.392	0.392	1.00
79	16:19	1.00	1.239	1.00	50.86	50.00	0.707	0.695	1.02
80	20:19	1.00	1.125	1.00	58.81	50.00	0.160	0.136	1.18
81	26:08	1.00	0.880	1.00	42.13	50.00	1.701	2.019	0.84
82	26:52	1.00	1.213	1.00	54.83	50.00	0.655	0.597	1.10

003077

QUANTITATION REPORT FILE: HGB40211A14

DATA: HGB40211A14.TI

02/11/84 10:26:00

SAMPLE: 1UL STD 2342 (11009)

SUBMITTED BY: 14

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-NITROSODIMETHYLAMINE
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 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-TRICHLOROBENZENE
25	437 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

NO NAME
 47 432 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'-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	789	9:52	1	1.000	A VB	42388.	40.000 NG	0.71
2	74	299	3:44	1	0.379	A BB	19171.	50.000 NG	0.89
3	94	753	9:25	1	0.954	A BV	51685.	50.000 NG	0.89
4	93	738	9:13	1	0.935	A BV	52949.	50.000 NG	0.89
5	93	758	9:28	1	0.961	A VB	44016.	50.000 NG	0.89
6	128	756	9:27	1	0.958	A BB	39314.	50.000 NG	0.89
7	146	779	9:44	1	0.987	A BV	45415.	50.000 NG	0.89
8	146	791	9:53	1	1.003	A VB	48279.	50.000 NG	0.89
9	108	834	10:25	1	1.057	A BV	22919.	50.000 NG	0.89
10	146	827	10:20	1	1.048	A BB	43740.	50.000 NG	0.89
11	108	868	10:51	1	1.100	A BB	31144.	50.000 NG	0.89
12	121	866	10:49	1	1.098	A BB	11165.	50.000 NG	0.89
13	108	900	11:15	1	1.141	A BV	37932.	50.000 NG	0.89
14	130	896	11:12	1	1.136	A BB	6568.	50.000 NG	0.89
15	117	887	11:05	1	1.124	A BB	16470.	50.000 NG	0.89
16	123	914	11:25	1	1.158	A BB	20680.	50.000 NG	0.89
17	136	1053	13:10	17	1.000	A BB	82228.	40.000 NG	0.71
18	82	967	12:05	17	0.918	A BV	64393.	50.000 NG	0.89

007079

31

025383

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
19	139	982	12:16	17	0.933	A BB	17373.	50.000 NG	0.89
20	122	1009	12:37	17	0.958	A BB	33267.	50.000 NG	0.89
21	93	1027	12:50	17	0.979	A BB	46751.	50.000 NG	0.89
22	105	1070	13:22	17	1.016	A*VV	43325.	249.999 NG	4.45
23	162	1035	12:56	17	0.983	A BV	28393.	49.999 NG	0.89
24	180	1047	13:05	17	0.994	A BB	36960.	49.999 NG	0.89
25	128	1058	13:13	17	1.005	A BB	118904.	49.999 NG	0.89
26	127	1087	13:35	17	1.032	A BV	138134.	249.994 NG	4.45
27	225	1106	13:49	17	1.050	A BB	17457.	49.999 NG	0.89
28	107	1206	15:04	17	1.145	A BB	37876.	49.999 NG	0.89
29	115	1212	15:09	17	1.151	A BB	27006.	49.999 NG	0.89
30	237	1265	15:49	17	1.201	A BB	9429.	49.999 NG	0.89
31	196	1287	16:05	17	1.222	A BV	21534.	49.999 NG	0.89
32	196	1295	16:11	17	1.230	A VV	102682.	249.994 NG	4.45
33	164	1445	18:04	33	1.000	A BB	43276.	40.000 NG	0.71
34	162	1317	16:28	33	0.911	A BB	66328.	49.999 NG	0.89
35	138	1360	17:00	33	0.941	A BV	121402.	249.994 NG	4.45
36	163	1416	17:42	33	0.980	A BB	80394.	49.999 NG	0.89
37	152	1409	17:37	33	0.975	A BB	81005.	49.999 NG	0.89
38	165	1427	17:50	33	0.988	A VB	15824.	49.999 NG	0.89
39	138	1449	18:07	33	1.003	A*BV	166186	249.994 NG	4.45
40	154	1452	18:09	33	1.005	A BB	62456.	49.999 NG	0.89
41	184	1478	18:28	33	1.023	A BV	21937.	249.994 NG	4.45
42	109	1512	18:54	33	1.046	A BV	6001.	124.998 NG	2.23
43	168	1488	18:36	33	1.030	A BB	92345.	49.999 NG	0.89
44	165	1512	18:54	33	1.046	A BB	22029.	49.999 NG	0.89
45	149	1578	19:43	33	1.092	A BB	83726.	49.999 NG	0.89
46	204	1576	19:42	33	1.091	A BB	28172.	49.999 NG	0.89
47	166	1565	19:34	33	1.083	A BB	70111.	49.999 NG	0.89
48	138	1620	20:15	33	1.121	A*VV	8323.	249.994 NG	4.45
49	198	1601	20:01	33	1.108	A BB	40275.	249.994 NG	4.45
50	169	1608	20:06	33	1.113	A BB	34316.	49.999 NG	0.89
51	77	1610	20:07	33	1.114	A VV	79229.	49.999 NG	0.89
52	188	1773	22:10	52	1.000	A BB	73964.	40.000 NG	0.71
53	248	1683	21:02	52	0.949	A BB	16286.	49.999 NG	0.89
54	284	1706	21:19	52	0.962	A BB	20968.	49.999 NG	0.89
55	266	1754	21:55	52	0.989	A BV	8013.	49.999 NG	0.89
56	178	1777	22:13	52	1.002	A BV	108716.	49.999 NG	0.89
57	178	1787	22:20	52	1.008	A VB	87394.	49.999 NG	0.89
58	149	1949	24:22	52	1.099	A BV	137216.	49.999 NG	0.89
59	202	2047	25:35	52	1.155	A BV	102155.	49.999 NG	0.89
60	240	2375	29:41	60	1.000	A BB	42487.	40.000 NG	0.71
61	202	2095	26:11	60	0.882	A BB	103759.	49.999 NG	0.89
62	NOT FOUND								
63	149	2284	28:33	60	0.962	A BB	55421.	49.999 NG	0.89
64	NOT FOUND								
65	228	2372	29:39	60	0.999	A BV	73818.	49.999 NG	0.89
66	149	2429	30:22	60	1.023	A BV	76129.	49.999 NG	0.89
67	228	2381	29:46	60	1.003	A VV	60355.	49.999 NG	0.89
68	149	2562	32:01	60	1.079	A BV	125394.	49.999 NG	0.89
69	264	2661	33:16	69	1.000	A BB	28887.	40.000 NG	0.71
70	252	2604	32:33	69	0.979	A BV	50580.	50.000 NG	0.89
71	252	2608	32:36	69	0.980	A VV	41611.	50.000 NG	0.89
72	252	2665	33:19	69	1.002	A BV	40728.	49.999 NG	0.89
73	276	2909	36:22	69	1.093	A BV	19024.	49.999 NG	0.89
74	278	2920	36:30	69	1.097	A BB	17070.	49.999 NG	0.89

003050

31

025390

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	276	2777	37:13	69	1.119	A BV	18433.	50.000 NG	0.89
76	112	564	7:03	1	0.715	A BV	28876.	50.000 NG	0.89
77	99	750	9:22	17	0.712	A BB	42285.	50.000 NG	0.89
78	82	910	11:22	17	0.864	A BB	40324.	50.000 NG	0.89
79	172	1306	16:19	17	1.240	A BB	72626.	50.000 NG	0.89
80	330	1625	20:19	33	1.125	A BB	8659.	50.000 NG	0.89
81	212	2091	24:08	60	0.880	A BB	90323.	50.000 NG	0.89
82	244	2151	24:53	52	1.213	A BB	60541.	50.000 NG	0.89

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:44	1.00	0.379	1.00	50.00	50.00	0.362	0.362	1.00
3	9:25	1.00	0.954	1.00	50.00	50.00	0.975	0.975	1.00
4	9:13	1.00	0.935	1.00	50.00	50.00	0.999	0.999	1.00
5	9:28	1.00	0.961	1.00	50.00	50.00	0.831	0.831	1.00
6	9:27	1.00	0.958	1.00	50.00	50.00	0.742	0.742	1.00
7	9:44	1.00	0.987	1.00	50.00	50.00	0.857	0.857	1.00
8	9:53	1.00	1.003	1.00	50.00	50.00	0.911	0.911	1.00
9	10:25	1.00	1.057	1.00	50.00	50.00	0.433	0.433	1.00
10	10:20	1.00	1.048	1.00	50.00	50.00	0.826	0.826	1.00
11	10:51	1.00	1.100	1.00	50.00	50.00	0.588	0.588	1.00
12	10:49	1.00	1.098	1.00	50.00	50.00	0.211	0.211	1.00
13	11:15	1.00	1.141	1.00	50.00	50.00	0.716	0.716	1.00
14	11:12	1.00	1.136	1.00	50.00	50.00	0.124	0.124	1.00
15	11:05	1.00	1.124	1.00	50.00	50.00	0.311	0.311	1.00
16	11:25	1.00	1.158	1.00	50.00	50.00	0.390	0.390	1.00
17	13:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	12:05	1.00	0.918	1.00	50.00	50.00	0.626	0.626	1.00
19	12:16	1.00	0.933	1.00	50.00	50.00	0.169	0.169	1.00
20	12:37	1.00	0.958	1.00	50.00	50.00	0.324	0.324	1.00
21	12:50	1.00	0.975	1.00	50.00	50.00	0.455	0.455	1.00
22	13:22	1.00	1.016	1.00	250.00	250.00	0.084	0.084	1.00
23	12:56	1.00	0.983	1.00	50.00	50.00	0.276	0.276	1.00
24	13:05	1.00	0.994	1.00	50.00	50.00	0.360	0.360	1.00
25	13:13	1.00	1.005	1.00	50.00	50.00	1.157	1.157	1.00
26	13:35	1.00	1.032	1.00	249.99	249.99	0.269	0.269	1.00
27	13:49	1.00	1.050	1.00	50.00	50.00	0.170	0.170	1.00
28	15:04	1.00	1.145	1.00	50.00	50.00	0.369	0.369	1.00
29	15:09	1.00	1.151	1.00	50.00	50.00	0.263	0.263	1.00
30	15:49	1.00	1.201	1.00	50.00	50.00	0.092	0.092	1.00
31	16:05	1.00	1.222	1.00	50.00	50.00	0.210	0.210	1.00
32	16:11	1.00	1.230	1.00	249.99	249.99	0.200	0.200	1.00
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	50.00	50.00	1.226	1.226	1.00
35	17:00	1.00	0.941	1.00	249.99	249.99	0.449	0.449	1.00
36	17:42	1.00	0.980	1.00	50.00	50.00	1.486	1.486	1.00
37	17:37	1.00	0.975	1.00	50.00	50.00	1.497	1.497	1.00
38	17:50	1.00	0.988	1.00	50.00	50.00	0.293	0.293	1.00
39	18:07	1.00	1.003	1.00	249.99	249.99	0.061	0.061	1.00
40	18:09	1.00	1.005	1.00	50.00	50.00	1.155	1.155	1.00
41	18:28	1.00	1.023	1.00	249.99	249.99	0.081	0.081	1.00
42	18:54	1.00	1.046	1.00	125.00	125.00	0.044	0.044	1.00
43	18:36	1.00	1.030	1.00	50.00	50.00	1.707	1.707	1.00
44	18:54	1.00	1.046	1.00	50.00	50.00	0.407	0.407	1.00
45	19:43	1.00	1.092	1.00	50.00	50.00	1.548	1.548	1.00
46	19:42	1.00	1.091	1.00	50.00	50.00	0.521	0.521	1.00

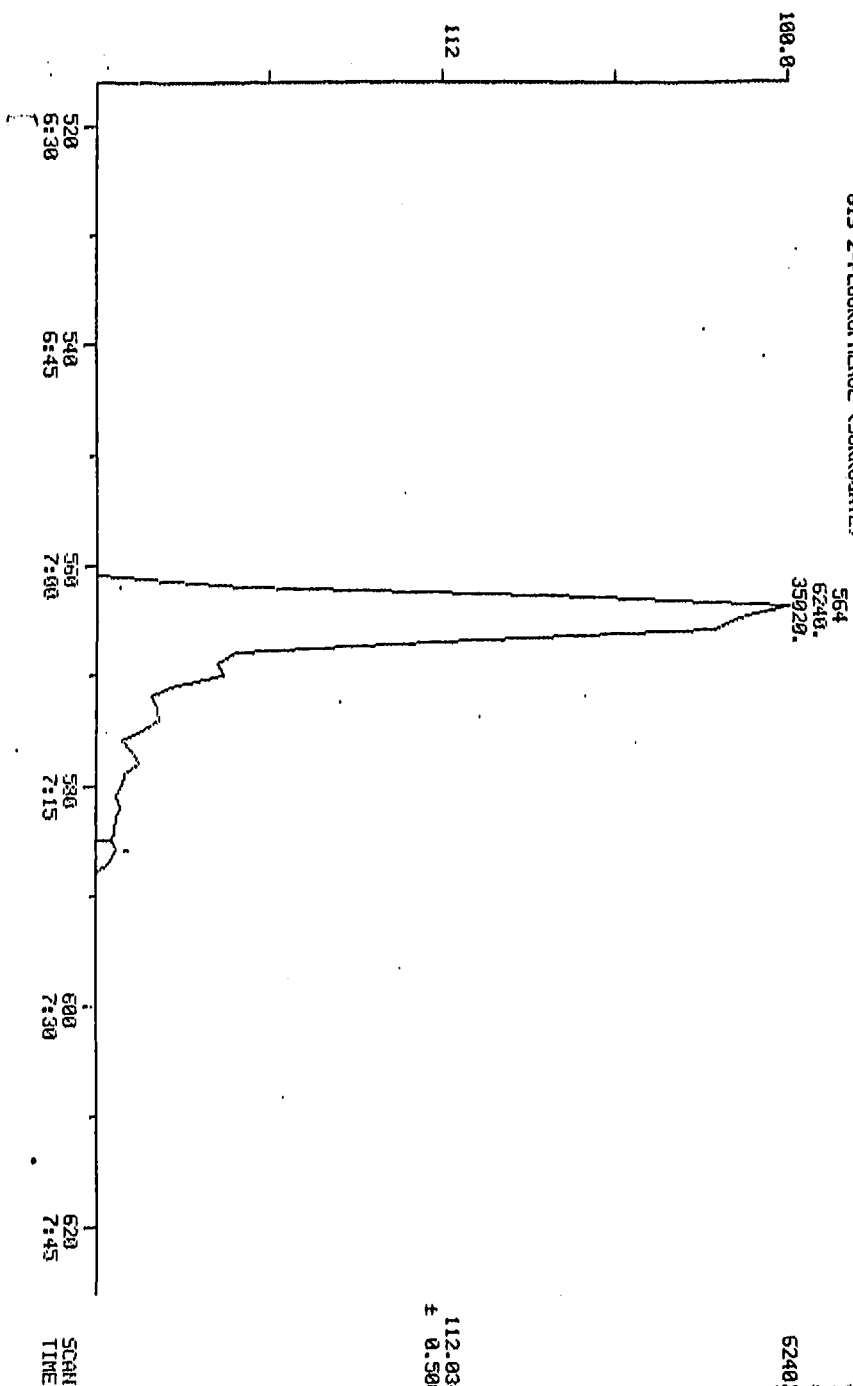
003051
025391

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	50.00	50.00	1.276	1.276	1.00
48	20:15	1.00	1.121	1.00	249.99	249.99	0.031	0.031	1.00
49	20:01	1.00	1.108	1.00	249.99	249.99	0.149	0.149	1.00
50	20:06	1.00	1.113	1.00	50.00	50.00	0.634	0.634	1.00
51	20:07	1.00	1.114	1.00	50.00	50.00	1.465	1.465	1.00
52	22:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	21:02	1.00	0.949	1.00	50.00	50.00	0.176	0.176	1.00
54	21:19	1.00	0.962	1.00	50.00	50.00	0.227	0.227	1.00
55	21:55	1.00	0.989	1.00	50.00	50.00	0.087	0.087	1.00
56	22:13	1.00	1.002	1.00	50.00	50.00	1.176	1.176	1.00
57	22:20	1.00	1.008	1.00	50.00	50.00	0.945	0.945	1.00
58	24:22	1.00	1.099	1.00	50.00	50.00	1.484	1.484	1.00
59	25:35	1.00	1.155	1.00	50.00	50.00	1.105	1.105	1.00
60	29:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	26:11	1.00	0.882	1.00	50.00	50.00	1.954	1.954	1.00
62	26:59		0.908			50.00		0.010	
63	28:33	1.00	0.962	1.00	50.00	50.00	1.044	1.044	1.00
64	30:43		1.007			50.00		0.018	
65	29:39	1.00	0.999	1.00	50.00	50.00	1.390	1.390	1.00
66	30:22	1.00	1.023	1.00	50.00	50.00	1.433	1.433	1.00
67	29:46	1.00	1.003	1.00	50.00	50.00	1.136	1.136	1.00
68	32:01	1.00	1.079	1.00	50.00	50.00	2.361	2.361	1.00
69	33:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	32:33	1.00	0.979	1.00	50.00	50.00	1.401	1.401	1.00
71	32:36	1.00	0.980	1.00	50.00	50.00	1.152	1.152	1.00
72	33:19	1.00	1.002	1.00	50.00	50.00	1.128	1.128	1.00
73	36:22	1.00	1.093	1.00	50.00	50.00	0.527	0.527	1.00
74	36:30	1.00	1.097	1.00	50.00	50.00	0.473	0.473	1.00
75	37:13	1.00	1.119	1.00	50.00	50.00	0.510	0.510	1.00
76	7:03	1.00	0.715	1.00	50.00	50.00	0.545	0.545	1.00
77	9:22	1.00	0.712	1.00	50.00	50.00	0.411	0.411	1.00
78	11:22	1.00	0.864	1.00	50.00	50.00	0.392	0.392	1.00
79	16:19	1.00	1.240	1.00	50.00	50.00	0.707	0.707	1.00
80	20:19	1.00	1.125	1.00	50.00	50.00	0.160	0.160	1.00
81	26:08	1.00	0.880	1.00	50.00	50.00	1.701	1.701	1.00
82	26:53	1.00	1.213	1.00	50.00	50.00	0.655	0.655	1.00

MASS CHROMATOGRAM
02/11/84 18:26:00
SAMPLE: IUL STD 2342 (11089)
619 2-FLUOROPHENOL (SURROGATE)

HEAD COMPUCHEN

COMPUCHEN DATA: HGS40211A14 SCANS 515 TO 626



MASS CHROMATOGRAM
02/11/84 10:25:00
SAMPLE: IUL STD 2342 (11093)
DS-PHENOL (SURROGATE)

MEAD COMPUTHER

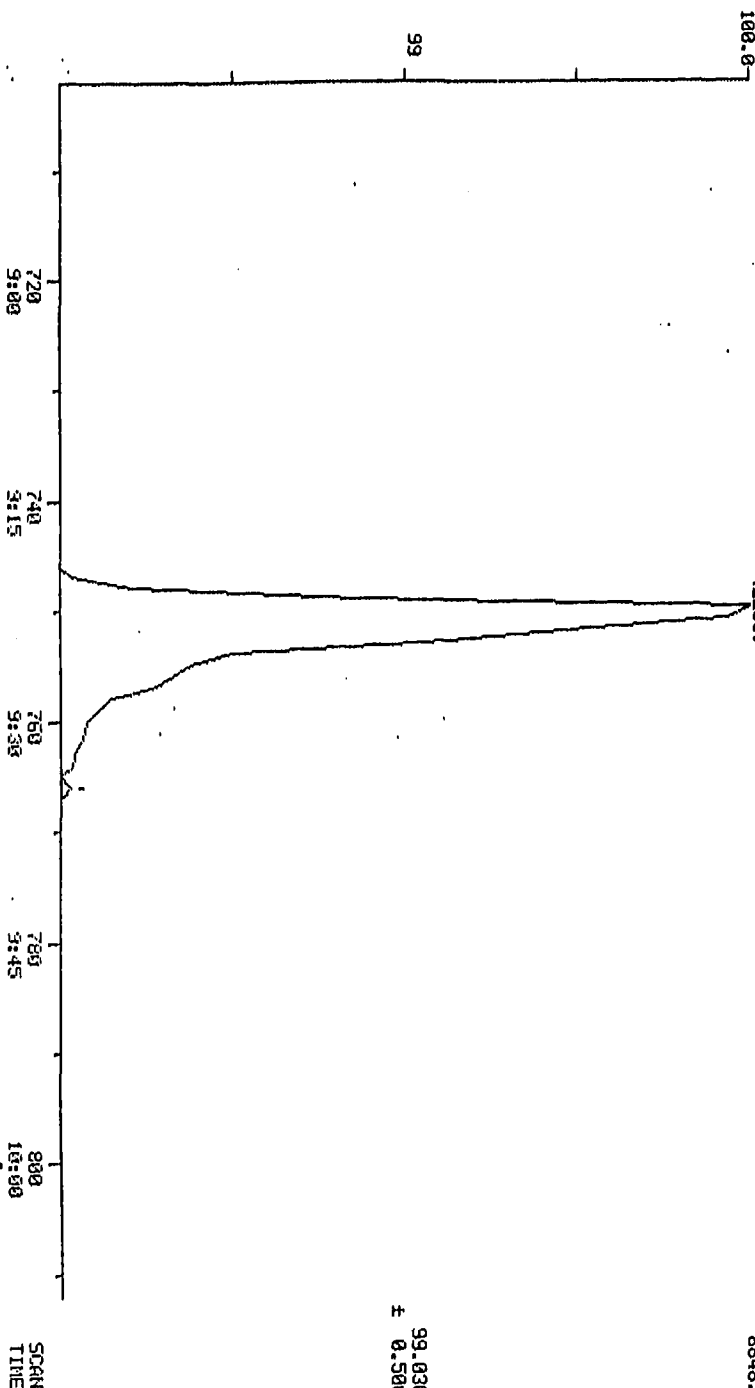
COMPUCHER DATA: H0840211A14 SCANS 702 TO 812

759
8848.
42285.

003034
8848.

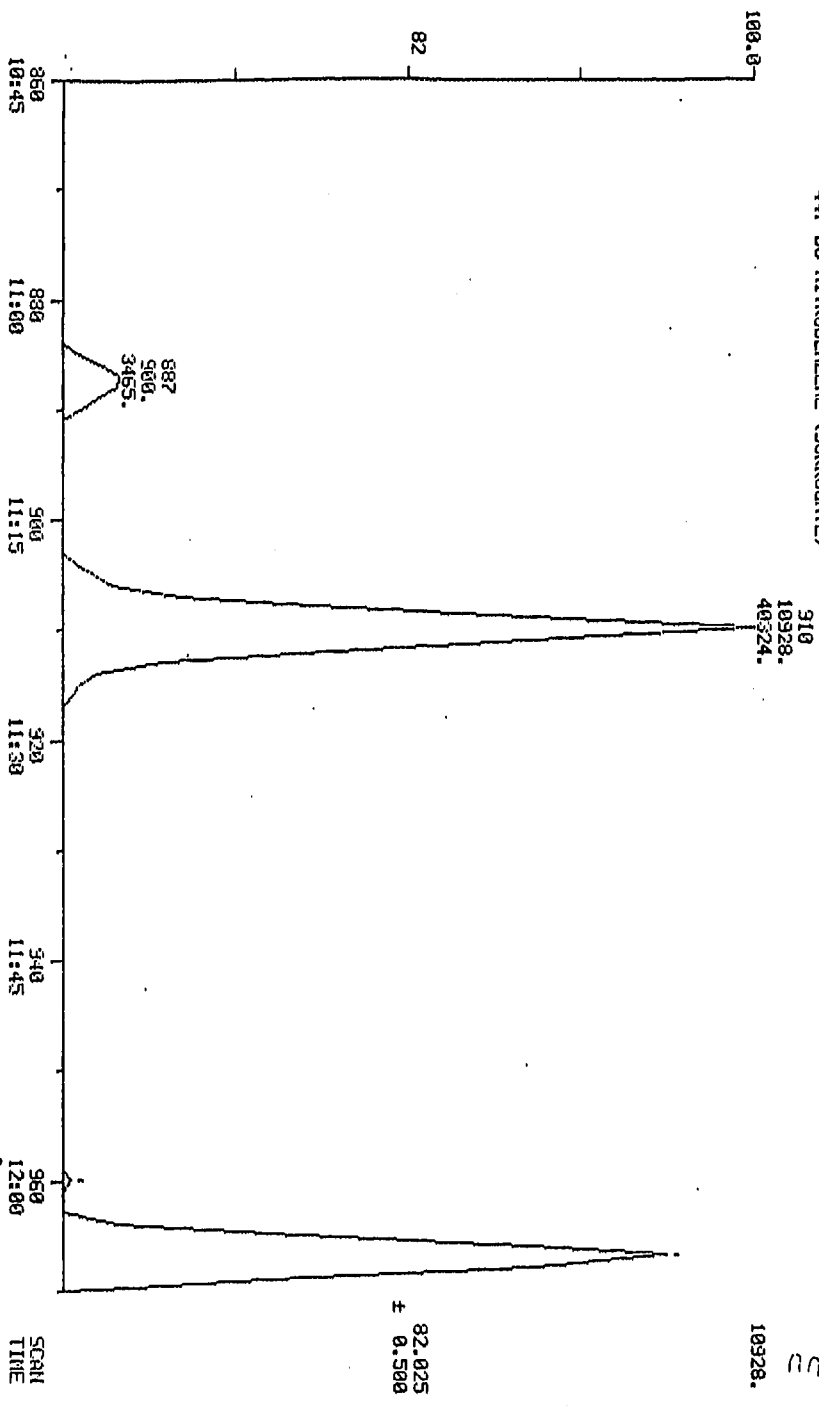
025394

39.038
± 0.508



MASS CHROMATOGRAM
 02/11/84 10:26:00
 SAMPLE: IUL STD 2342 (11699)
 447 DS-NITROBENZENE (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: HC840211A14 SCANS 860 TO 970



009095
 025395

31

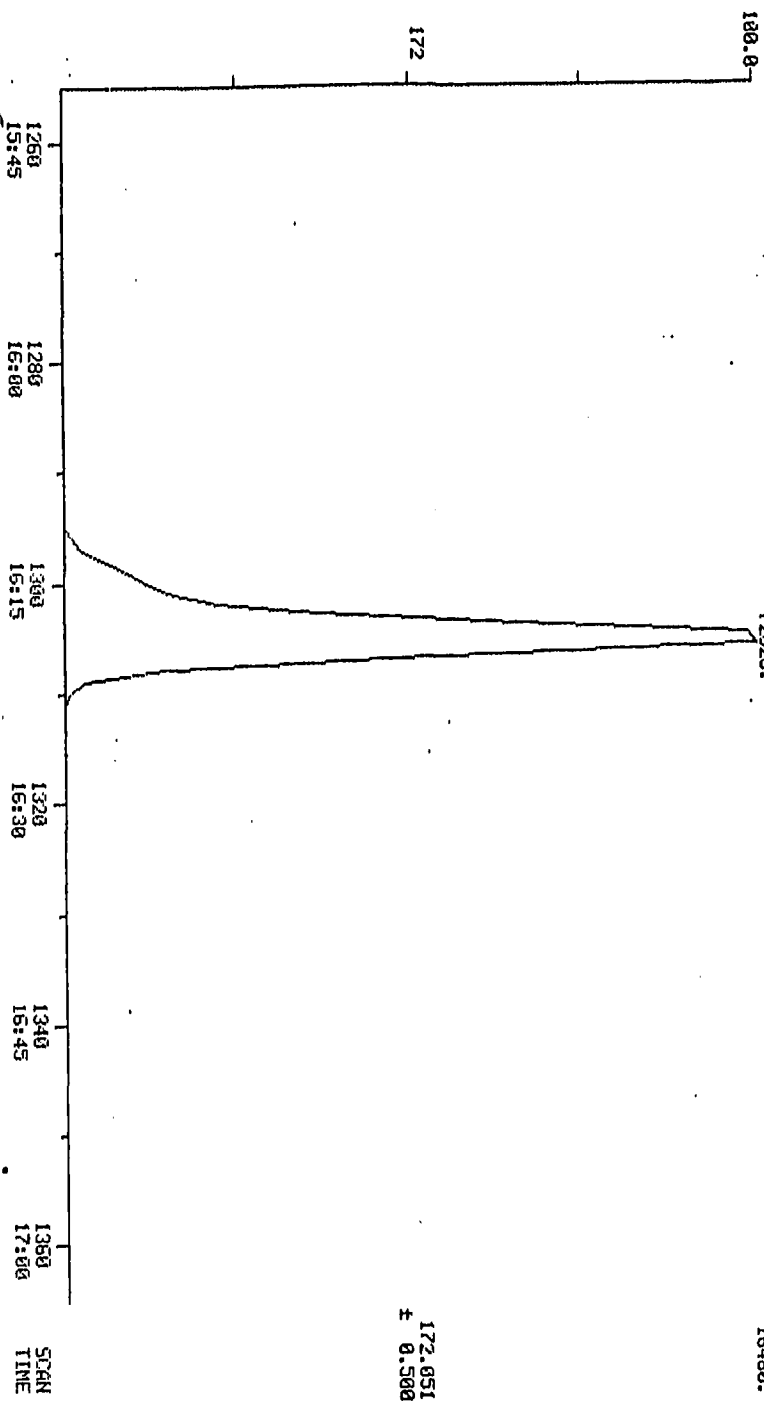
MASS CHROMATOGRAM
 02/11/84 10:26:00
 SAMPLE: IUL STD 2342 (11009)
 448 2-FLUOROBIPHENYL (SURROGATE)

MEAD CONFUCHEM
 CONFUCHEM DATA: HGC40211A14 SCANS 1255 TO 1365

1306
 16480.
 72525.

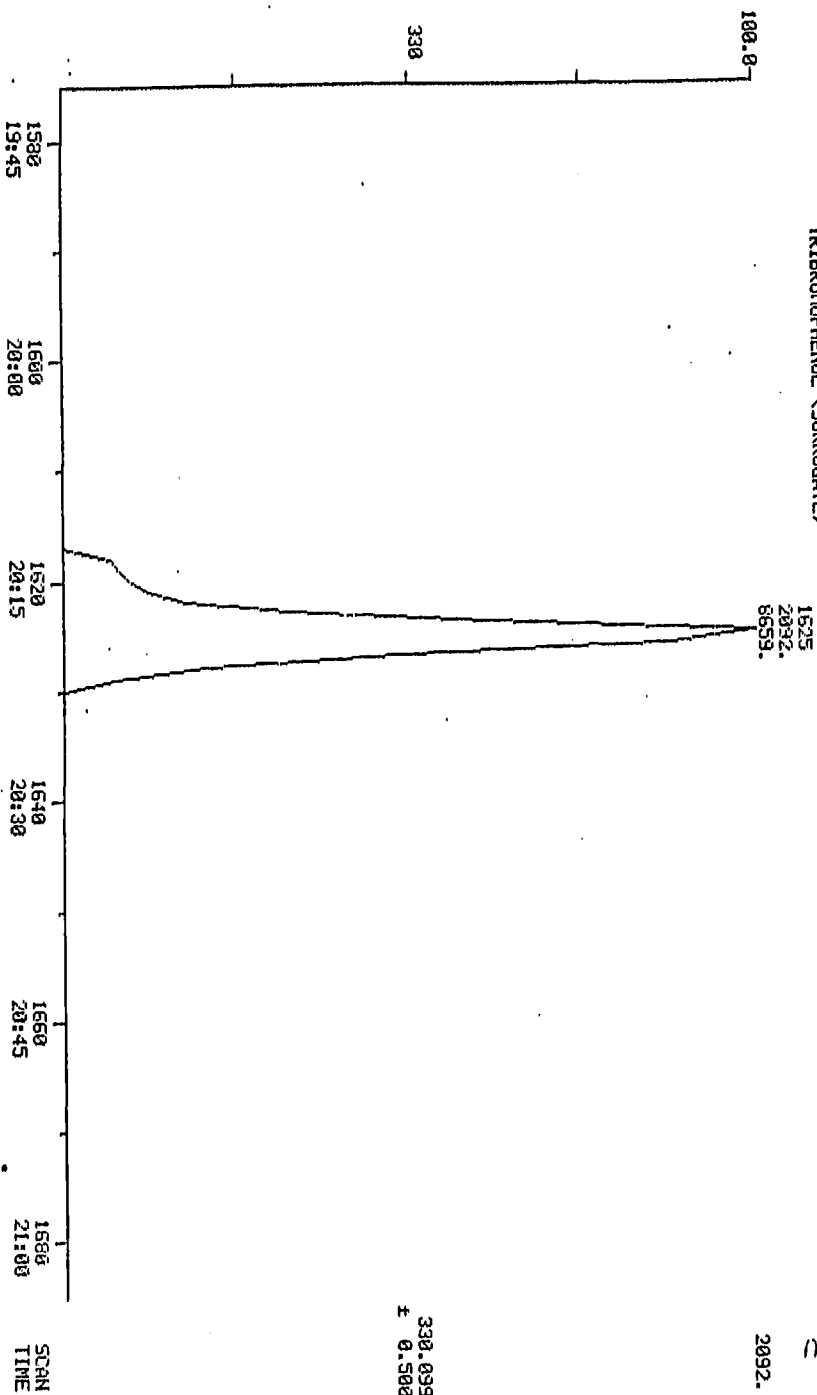
000000
 025396

172.651
 ± 0.500



MASS CHROMATOGRAM
02/11/84 10:26:00
SAMPLE: IUL STD 2342 (11003)
TRIBROMOPHENOL (SURROGATE)

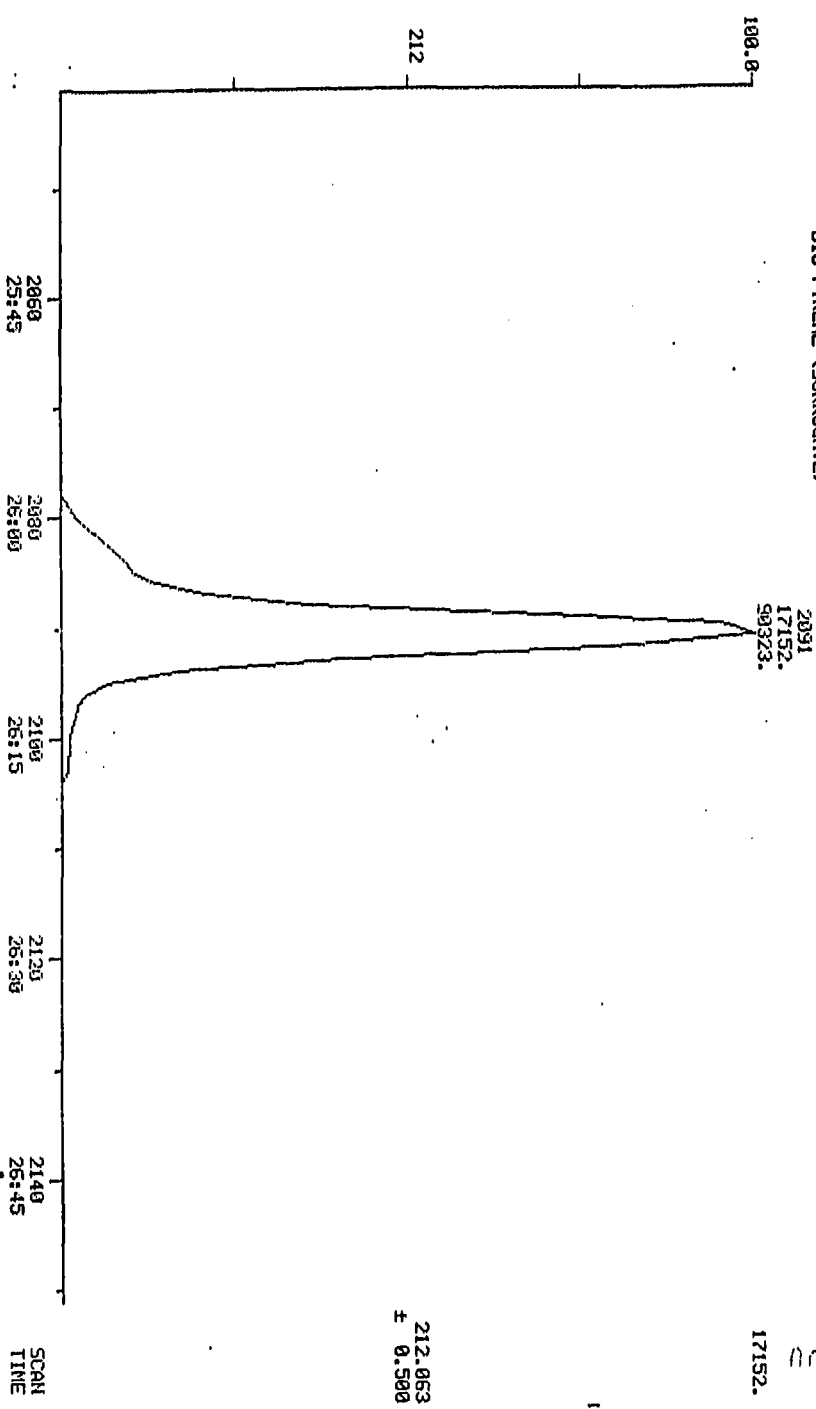
MEAD COMPUCHEN
COMPUCHEN DATA: H0840211A14 SCANS 1575 TO 1635



003037
025397
2092.

MASS CHROMATOGRAM
 02/11/84 10:26:00
 SAMPLE: IUL STD 2342 (11009)
 D10-PYRENE (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: H0840211014 SCANS 2041 TO 2151



003088
 025398

31

MASS CHROMATOGRAM
 02/11/84 10:25:00
 SAMPLE: IUL STD 2342 (11609)
 D14-TERPHEHYL (SURROGATE)

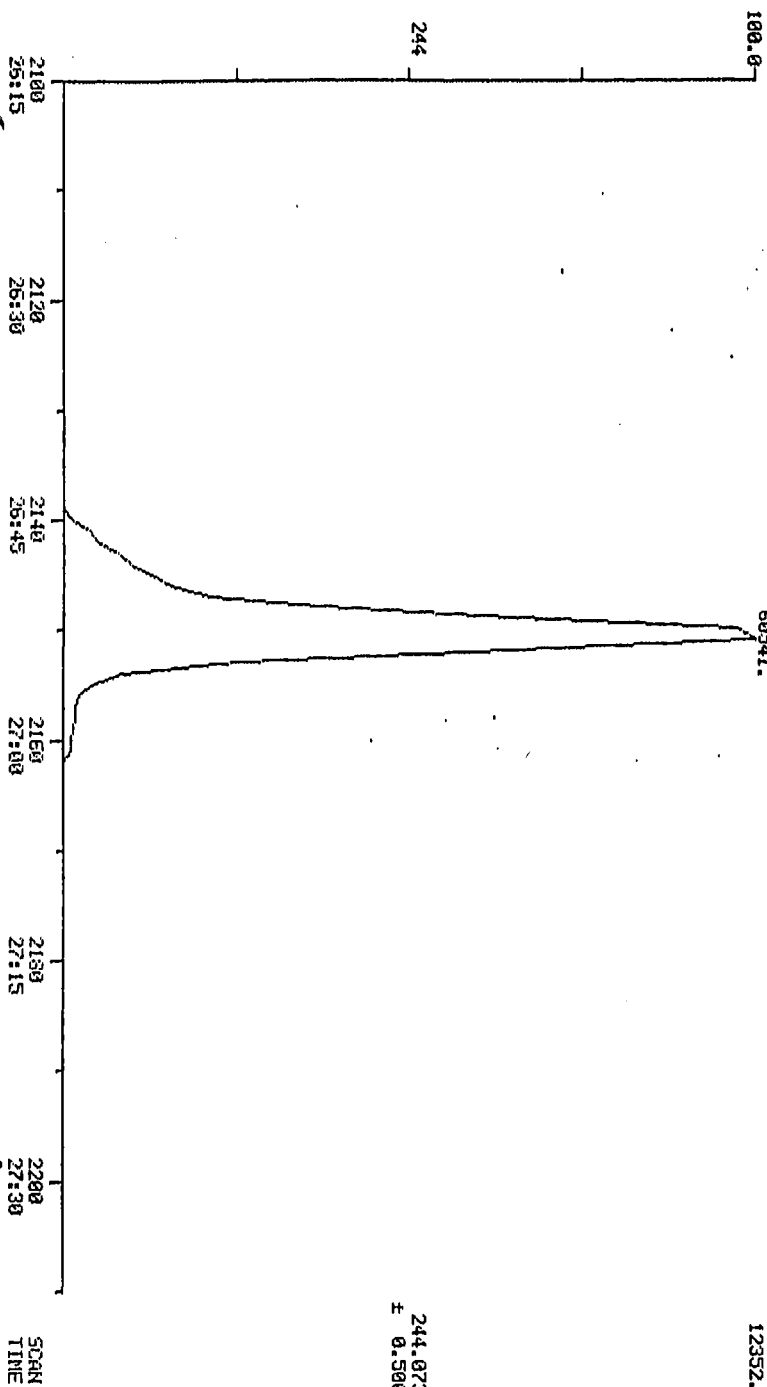
HEAD COMPUCHEN

COMPUCHEN DATA: H0240211A14 SCANS 2100 TO 2210

009030

12352.

025393



Mead Compuchem GC/MS Analysis Log

Initial Time of Tune 10:02
Time Tune Elapses 18:02

Shift(s) (A) 1 (B) 1
Date 2/11/81
Analysis Type ESC

Run Log

Press Hard, Multiple Copies

File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
DH840211A14			1.1	754		149	11005 (40 365 82)
24840211A14			1.1	754		149	11005 "
4840211A14			RECALIB.				
5840211A14			1.1	754		148	11005
R0196556A14			1.1	754		148	STD 2342 (11005)
R019264A14			1.1	754		148	5.1 35 (10955)
4019713A14			1.1	754		148	5.1 35 (10955)
4019714A14			1.1	754		148	5.1 35 (10955)
H019580B14			1.1	755		148	5.1 35 (10955)
54019525B14			1.1	755		148	5.1 35 (10955)

RJ 2/11/81

FSC "CHECK STAMPS" TABULATION

2-13
POSTED

14

STANDARD FILE NAME

HS840211414

DATE

2/11/84

OPERATOR

754

211184

003001
025401

CHECK COMMENTS	← THREE POINT MULTI-POINT →			MULTIPOINT AVERAGE RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	20 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR	80 mg RESPONSE FACTOR				
1-Breathalyzer (8)	0.950	0.919	0.907	0.925	0.911	< 1	5 Difference < 15%
PHILADE (52)	1.113	1.166	1.135	1.136	1.157	2	5 Difference < 15%
ANNAPOLIS (46)	1.107	1.061	1.072	1.077	1.155	10	5 Difference < 15%
DELAWARE (52)	1.148	1.211	1.196	1.185	1.176	3	5 Difference < 15%
WYOMING (57)	1.196	1.070	1.111	1.126	1.136	6	5 Difference < 15%
INDIANAPOLIS (52)	1.087	1.047	1.017	1.050	1.128	8	5 Difference < 15%
SPRINGFIELD (57)	0.678	0.725	0.703	0.702	0.626	14	5 Difference < 20%
WASHINGTON (52)	1.584	1.625	1.629	1.613	1.484	9	5 Difference < 20%
INDIANAPOLIS (52)	✓	✓	✓		✓		Detectable Only
WASHINGTON (52)	✓	✓	✓		✓		Detectable Only
SPRINGFIELD (57)	✓	✓	✓		✓		Detectable Only

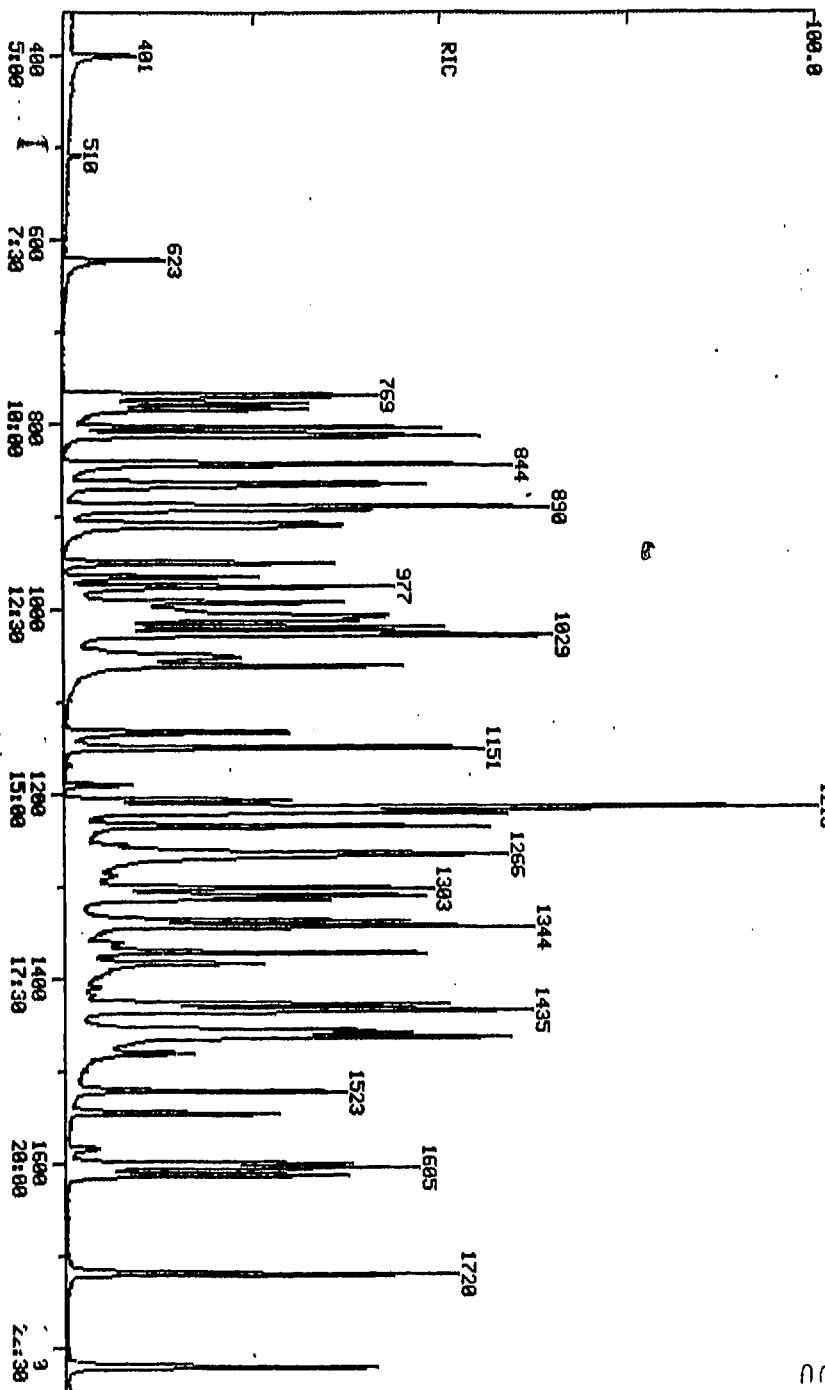
RIC
02/06/84 11:13:00
SAMPLE: IUL STD 2342 (10914)

HEAD COMPUCHEN

COMPUCHEN DATA: HG840206C15 SCANS 350 TO 1850
OUT OF 350 TO 3200

003002

025402



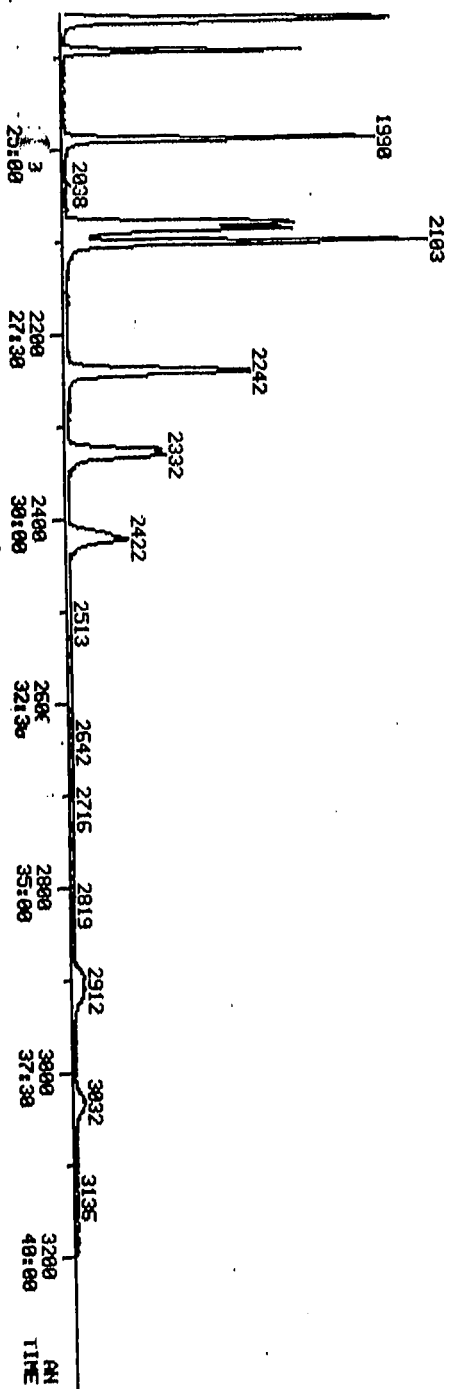
RIC
82/06/84 1:13:00
SAMPLE: IUL STD 2342 (10914)

MEAD COMPUCHEN
COMPUCHEN DATA: H0840206C15 SCANS 1650 TO 3200
OUT OF 350 TO 3200

186880.

003003
025403

31



PROCEDURE: RK
DATA FILE: HQB40206C15

DIAGNOSTIC REPORT

2/06/84 1:55:40

REFERENCE: FS007

METHOD: FS007 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

REPORT: FS00751

< --- STANDARDS --- > < --- PLUS UNKNOWN --- > < --- LIST NAMES --- >
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
6 6 1 46 34 31 18 87 FS007B1/FS007U1
6 6 1 46 34 28 8 76 FS007B2/FS007U2

82 COMPOUNDS PROCESSED, 73 FOUND

< COMPOUND >		SEARCH				> SAT >		> CHRD >				
NO	LIB ENTRY	REF	PRED	SEL DELTA	PEAKS	FIT PEAKS	M/E	TOP DELTA	PEAKS			
1	C1	1	-811	811	811	1	995	150	811	1		
2	C2	1	-1026	1026	1026	1	989	136	1026	1		
3	C3	1	-1338	1338	1338	1	994	164	1338	1		
4	C4	1	-1602	1602	1601	-1	1	992	188	1601	1	
5	C5	1	-2084	2084	2084	1	831	240	2083	-1	1	
6	C6	1	-2416	2416	2416	1	845	264	2415	-1	1	
7	C1	2	-397	398	401	3	1	989	74	401	1	
8	C1	3	-769	769	770	1	1	993	94	770	1	
9	C1	4	-768	768				93	769		1	
10	C1	5	-778	778	779	1	1	984	93	779	1	
11	C1	6	-784	784	784	1	1	995	128	784	1	
12	C1	7	-805	805	805	1	1	995	146	805	1	
13	C1	8	-813	813	814	1	1	993	146	814	1	
14	C1	9	-842	842	842	1	1	992	108	842	1	
15	C1	10	-844	844	844	1	1	992	146	844	1	
16	C1	11	-864	864	865	1	1	987	108	865	1	
	C1	12	-866	866					121	867	1	
18	C1	13	-889	889	889	1	1	994	108	889	1	
19	C1	14	-890	890	890	1	1	991	130	890	1	
20	C1	15	-894	894	894	1	1	983	117	894	1	
21	C1	16	-911	911	912	1	1	989	123	912	1	
22	C2	2	-952	952	952	1	1	990	82	952	1	
23	C2	3	-966	966	966	1	1	992	139	966	1	
24	C2	4	-976	976	977	1	1	996	122	977	1	
25	C2	5	-993	993	993	1	1	990	93	993	1	
26	C2	6	-1016	1016	1013	-3	3	990	105	1013	2	
27	C2	7	-1008	1008	1008	1	1	974	162	1008	1	
28	C2	8	-1020	1020	1020	1	1	991	180	1020	1	
29	C2	9	-1030	1030	1029	-1	1	994	128	1029	1	
30	C2	10	-1052	1052	1053	1	1	994	127	1053	1	
31	C2	11	-1062	1062	1062	1	1	994	225	1062	1	
32	C2	12	-1133	1133	1134	1	1	992	107	1133	-1	1
33	C2	13	-1151	1151	1151	1	1	992	115	1151	1	
34	C2	14	-1191	1191	1191	1	1	941	237	1191	1	
35	C2	15	-1207	1207	1207	1	1	994	196	1207	1	
36	C2	16	-1215	1215	1215	1	1	984	196	1215	1	
37	C3	2	-1236	1236	1236	1	1	990	162	1236	1	
38	C3	3	-1266	1266	1266	1	1	988	138	1266	1	
39	C3	4	-1303	1303	1303	1	1	986	163	1303	1	
40	C3	5	-1311	1311	1311	1	1	997	182	1311	1	
41	C3	6	-1315	1315	1315	1	1	990	165	1315	1	
42	C3	7	-1352	1352	1351	-1	1	928	138	1351	2	
	C3	8	-1344	1344	1344	1	1	994	154	1344	1	
44	C3	9	-1360	1360	1362	2	3	899	184	1362	1	
45	C3	10	-1390	1390	1389	-1	2	876	109	1390	1	
46	C3	11	-1372	1372	1372	1	1	981	168	1373	1	
47	C3	12	-1384	1384	1384	1	1	987	165	1384	1	
48	C3	13	-1429	1429	1429	1	1	983	149	1429	1	
49	C3	14	-1436	1436	1436	1	1	933	204	1436	1	

003004

31

025404

52	C3	17	-1456	1456	1457	1	1	979	198	1456	-1	1
53	C3	18	-1460	1460	1460	.	1	814	169	1460	.	1
54	C3	19	-1464	1464	1464	.	1	987	77	1464	.	1
55	C4	2	-1523	1523	1523	.	1	988	248	1522	-1	1
56	C4	3	-1547	1547	1547	.	1	985	284	1547	.	1
57	C4	4	-1583	1583	1584	1	1	899	266	1584	.	1
58	C4	5	-1606	1606	1605	-1	2	992	178	1605	.	1
59	C4	6	-1614	1614	1614	.	2	992	178	1613	-1	1
60	C4	7	-1720	1720	1720	.	1	961	149	1720	.	1
61	C4	8	-1821	1821	1820	-1	1	993	202	1820	.	1
62	C5	2	-1861	1861	1861	.	1	984	202	1861	.	1
63	C5	3	-1858	1858		.	.	.	184	1858	.	1
64	C5	4	-1990	1989	1990	1	1	987	149	1990	.	1
65	C5	5	-2089	2088		.	.	.	252	2090	.	2
66	C5	6	-2080	2079	2080	1	1	958	228	2080	.	1
67	C5	7	-2104	2103	2103	.	1	910	149	2103	.	1
68	C5	8	-2088	2087	2088	1	1	981	228	2088	.	1
69	C5	9	-2243	2242	2241	-1	1	971	149	2241	.	1
70	C6	2	-2327	2326	2326	.	2	955	252	2326	.	1
71	C6	3	-2332	2331	2332	1	1	938	252	2332	.	1
72	C6	4	-2425	2424	2422	-2	1	916	252	2423	1	1
73	C6	5	-2895	2894		.	.	.	276	2897	.	2
74	C6	6	-2916	2915		.	.	.	278	2916	.	2
75	C6	7	-3034	3032		.	.	.	276	3033	.	1
76	C7	2	-621	622	623	1	1	986	112	623	.	1
77	C7	3	-767	768		.	.	.	99	768	.	1
78	C7	4	-909	910	909	-1	1	994	82	909	.	1
79	C7	5	-1221	1221	1221	.	1	986	172	1221	.	1
80	C7	6	-1482	1482	1482	.	1	983	330	1482	.	1
81	C7	7	-1858	1858	1858	.	1	952	212	1857	-1	1
82	C7	8	-1893	1893	1893	.	1	991	244	1893	.	1

003095
025405

QUANTITATION REPORT FILE: HGB40206C15

DATA: HGB40206C15.TI

02/06/84 1:13:00

SAMPLE: 1UL STD 2342 (10914)

SMITTED BY: 15

ANALYST: 754

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-NITROBODIMETHYAMINE
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	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 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

000000

025406

NO NAME
 47 432 FLUDRENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-O-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSO)
 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 FLUDRANTHENE
 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)FLUDRANTHENE
 71 409 BENZO(K)FLUDRANTHENE
 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
 619 2-FLUDROPHENOL (SURROGATE)
 D5-PHENOL (SURROGATE)
 78 447 D5-NITROBENZENE (SURROGATE)
 79 448 2-FLUDROBIPHENYL (SURROGATE)
 80 TRIBROMOPHENOL (SURROGATE)
 81 D10-PYRENE (SURROGATE)
 82 D14-TERPHENYL (SURROGATE)

NO M/E SCAN TIME REF RRT METH AREA(HGHT) AMOUNT XTOT
 1 150 811 10:08 1 1.000 A VV 49654. 40.000 NG 0.72
 2 74 401 5:01 1 0.494 A BV 25757. 49.649 NG 0.90
 3 94 770 7:37 1 0.949 A BV 57330. 55.126 NG 1.00
 4 93 769 7:37 1 0.948 A BV 28720. 48.590 NG 0.88
 5 93 779 7:44 1 0.961 A VV 68097. 52.859 NG 0.95
 6 128 784 7:48 1 0.967 A BV 44878. 51.474 NG 0.93
 7 146 805 10:04 1 0.993 A BV 51708. 48.932 NG 0.88
 8 146 814 10:10 1 1.004 A VV 59143. 50.318 NG 0.91
 9 108 842 10:31 1 1.038 A BV 26816. 70.058 NG 1.27
 10 146 844 10:33 1 1.041 A BV 51876. 50.742 NG 0.92
 11 108 865 10:49 1 1.067 A VV 47225. 59.206 NG 1.07
 12 121 867 10:50 1 1.069 A BV 18069. 52.774 NG 0.95
 13 108 889 11:07 1 1.076 A VV 46664. 54.551 NG 0.99
 14 130 890 11:07 1 1.097 A BV 9876. 52.932 NG 0.96
 15 117 894 11:10 1 1.102 A BV 25585. 50.473 NG 0.91
 16 123 912 11:24 1 1.125 A BV 23989. 53.603 NG 0.97
 17 136 1026 12:49 17 1.000 A BV 97488. 40.000 NG 0.72
 18 82 952 11:54 17 0.928 A BV 108875. 55.014 NG 0.99

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
19	139	966	12:04	17	0.942	A BV	24925.	52.730 NG	0.95
20	122	977	12:13	17	0.952	A BV	41000.	54.509 NG	0.98
21	93	993	12:25	17	0.968	A BV	64555.	58.042 NG	1.05
	105	1013	12:40	17	0.987	A*BV	125916.	250.337 NG	4.52
	162	1008	12:36	17	0.982	A BV	32247.	48.089 NG	0.87
24	180	1020	12:45	17	0.994	A BB	39062.	48.354 NG	0.87
25	128	1029	12:52	17	1.003	A BV	143732.	52.082 NG	0.94
26	127	1053	13:10	17	1.026	A VV	121877.	308.520 NG	5.57
27	225	1062	13:16	17	1.035	A BB	19681.	45.224 NG	0.82
28	107	1133	14:10	17	1.104	A BV	51635.	52.940 NG	0.96
29	115	1151	14:23	17	1.122	A BB	41458.	48.133 NG	0.87
30	237	1191	14:53	17	1.161	A BB	4958.	30.033 NG	0.54
31	196	1207	15:05	17	1.176	A BV	20547.	48.128 NG	0.87
32	196	1215	15:11	17	1.184	A VV	101758.	231.366 NG	4.18
33	164	1338	16:43	33	1.000	A BB	51002.	40.000 NG	0.72
34	162	1236	15:27	33	0.924	A BB	75219.	50.172 NG	0.91
35	138	1266	15:49	33	0.946	A BV	127831.	258.491 NG	4.67
36	163	1303	16:17	33	0.974	A BB	92805.	54.360 NG	0.98
37	152	1311	16:23	33	0.980	A BB	109312.	70.351 NG	1.27
38	165	1315	16:26	33	0.983	A BB	17890.	50.696 NG	0.92
39	138	1351	16:53	33	1.010	A*VV	3964.	108.181 NG	1.95
40	154	1344	16:48	33	1.004	A BB	72414.	50.225 NG	0.91
41	184	1362	17:01	33	1.018	A BV	5881.	74.532 NG	1.35
42	109	1390	17:22	33	1.039	A BV	3224.	28.337 NG	0.51
43	168	1373	17:10	33	1.026	A BV	103274.	48.732 NG	0.88
44	165	1384	17:18	33	1.034	A BV	25855.	50.616 NG	0.91
45	149	1429	17:52	33	1.068	A BV	103854.	51.205 NG	0.92
46	204	1436	17:57	33	1.073	A BB	29480.	46.672 NG	0.84
47	166	1434	17:55	33	1.072	A BV	77753.	47.922 NG	0.87
	138	1471	18:23	33	1.099	A*VV	7658.	290.453 NG	5.25
49	198	1456	18:12	33	1.088	A BV	30211.	174.385 NG	3.15
50	169	1460	18:15	33	1.091	A BB	44823.	89.650 NG	1.62
51	77	1464	18:18	33	1.094	A VV	135004.	55.576 NG	1.00
52	188	1601	20:01	52	1.000	A BV	82307.	40.000 NG	0.72
53	248	1522	19:01	52	0.951	A BB	17401.	45.960 NG	0.83
54	284	1547	19:20	52	0.966	A BB	20126.	44.687 NG	0.81
55	266	1584	19:48	52	0.989	A BV	3829.	19.444 NG	0.35
56	178	1605	20:04	52	1.002	A BV	111554.	49.275 NG	0.89
57	178	1613	20:10	52	1.007	A VV	105090.	46.906 NG	0.85
58	149	1720	21:30	52	1.074	A VV	174963.	49.955 NG	0.90
59	202	1820	22:45	52	1.137	A VV	116690.	48.366 NG	0.87
60	240	2083	26:02	60	1.000	A BV	45932.	40.000 NG	0.72
61	202	1861	23:16	60	0.893	A VV	114877.	62.832 NG	1.13
62	184	1858	23:13	60	0.892	A BB	1033.	62.250 NG	1.12
63	149	1990	24:52	60	0.955	A VV	72471.	66.054 NG	1.19
64	252	2090	26:07	60	1.003	A*BV	3806.	59.160 NG	1.07
65	228	2080	26:00	60	0.999	A BV	75871.	56.090 NG	1.01
66	149	2103	26:17	60	1.010	A VV	107015.	70.871 NG	1.28
67	228	2088	26:06	60	1.002	A VV	81803.	50.577 NG	0.91
68	149	2241	28:01	60	1.076	A VV	177519.	67.857 NG	1.23
69	264	2415	30:11	69	1.000	A BV	33028.	40.000 NG	0.72
70	252	2326	29:04	69	0.963	A BV	49867.	62.296 NG	1.13
71	252	2332	29:09	69	0.966	A VV	59289.	67.574 NG	1.22
72	252	2423	30:17	69	1.003	A BV	46192.	52.242 NG	0.94
73	276	2897	36:13	69	1.200	A*BV	18469.	56.379 NG	1.02
	278	2916	36:27	69	1.207	A BV	17711.	62.943 NG	1.14

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HOHT)	AMOUNT	XTOT
75	276	3033	37:55	69	1.256	A*BB	15981.	50.025 NO	0.90
76	112	623	7:47	1	0.768	A BV	31371.	55.248 NO	1.00
77	99	768	9:36	17	0.749	A BV	43915.	52.631 NO	0.95
7	82	909	11:22	17	0.886	A BV	61900.	54.615 NO	0.99
7	172	1221	15:16	17	1.190	A BB	79508.	48.827 NO	0.88
80	330	1482	18:31	33	1.108	A BB	7189.	40.493 NO	0.73
81	212	1857	23:13	60	0.892	A BB	101822.	62.584 NO	1.13
82	244	1893	23:40	52	1.182	A BV	69766.	45.822 NO	0.83

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:58	1.01	0.490	1.01	49.65	50.00	0.415	0.418	0.99
3	9:37	1.00	0.948	1.00	55.13	50.00	0.924	0.838	1.10
4	9:36	1.00	0.947	1.00	48.59	50.00	0.463	0.476	0.97
5	9:43	1.00	0.959	1.00	52.86	50.00	1.097	1.038	1.06
6	9:48	1.00	0.967	1.00	51.47	50.00	0.723	0.702	1.03
7	10:04	1.00	0.993	1.00	48.93	50.00	0.833	0.851	0.98
8	10:10	1.00	1.002	1.00	50.32	50.00	0.953	0.947	1.01
9	10:31	1.00	1.038	1.00	70.06	50.00	0.432	0.308	1.40
10	10:33	1.00	1.041	1.00	50.74	50.00	0.836	0.824	1.01
11	10:48	1.00	1.065	1.00	59.21	50.00	0.761	0.643	1.18
12	10:49	1.00	1.068	1.00	52.77	50.00	0.291	0.276	1.06
13	11:07	1.00	1.096	1.00	54.55	50.00	0.752	0.689	1.09
14	11:07	1.00	1.097	1.00	52.93	50.00	0.159	0.150	1.06
15	11:10	1.00	1.102	1.00	50.47	50.00	0.412	0.408	1.01
16	11:23	1.00	1.123	1.00	53.60	50.00	0.386	0.361	1.07
17	12:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:54	1.00	0.928	1.00	55.01	50.00	0.893	0.812	1.10
19	12:04	1.00	0.942	1.00	52.73	50.00	0.205	0.194	1.05
	12:12	1.00	0.951	1.00	54.51	50.00	0.336	0.309	1.09
21	12:25	1.00	0.968	1.00	58.04	50.00	0.530	0.456	1.16
22	12:42	1.00	0.990	1.00	250.34	250.00	0.207	0.206	1.00
23	12:36	1.00	0.982	1.00	48.09	50.00	0.265	0.275	0.96
24	12:45	1.00	0.994	1.00	48.35	50.00	0.321	0.331	0.97
25	12:52	1.00	1.004	1.00	52.08	50.00	1.179	1.132	1.04
26	13:09	1.00	1.025	1.00	308.52	250.00	0.200	0.162	1.23
27	13:16	1.00	1.035	1.00	45.22	50.00	0.162	0.179	0.90
28	14:10	1.00	1.104	1.00	52.94	50.00	0.424	0.400	1.06
29	14:23	1.00	1.122	1.00	48.13	50.00	0.340	0.353	0.96
30	14:53	1.00	1.161	1.00	30.03	50.00	0.041	0.068	0.60
31	15:05	1.00	1.176	1.00	48.13	50.00	0.169	0.175	0.96
32	15:11	1.00	1.184	1.00	231.37	250.00	0.167	0.180	0.93
33	16:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	15:27	1.00	0.924	1.00	50.17	50.00	1.180	1.176	1.00
35	15:49	1.00	0.946	1.00	258.49	250.00	0.401	0.388	1.03
36	16:17	1.00	0.974	1.00	54.36	50.00	1.456	1.339	1.09
37	16:23	1.00	0.980	1.00	70.35	50.00	1.715	1.219	1.41
38	16:26	1.00	0.983	1.00	50.70	50.00	0.281	0.277	1.01
39	16:54	1.00	1.010	1.00	108.18	250.00	0.012	0.029	0.43
40	16:48	1.00	1.004	1.00	50.22	50.00	1.136	1.131	1.00
41	17:00	1.00	1.016	1.00	74.53	250.00	0.018	0.062	0.30
42	17:22	1.00	1.039	1.00	28.34	125.00	0.020	0.089	0.23
43	17:09	1.00	1.025	1.00	48.73	50.00	1.620	1.662	0.97
44	17:18	1.00	1.034	1.00	50.62	50.00	0.406	0.401	1.01
45	17:52	1.00	1.068	1.00	51.21	50.00	1.629	1.591	1.02
	17:57	1.00	1.073	1.00	46.67	50.00	0.462	0.495	0.93

003809

31

025403

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:55	1.00	1.072	1.00	47.92	50.00	1.220	1.272	0.96
48	18:22	1.00	1.098	1.00	290.45	250.00	0.024	0.021	1.16
49	18:12	1.00	1.088	1.00	174.39	250.00	0.095	0.136	0.70
	18:15	1.00	1.091	1.00	89.65	50.00	0.703	0.392	1.79
	18:18	1.00	1.094	1.00	55.38	50.00	2.118	1.905	1.11
52	20:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	19:02	1.00	0.951	1.00	45.96	50.00	0.169	0.184	0.92
54	19:20	1.00	0.966	1.00	44.69	50.00	0.196	0.219	0.89
55	19:47	1.00	0.988	1.00	19.44	50.00	0.037	0.096	0.39
56	20:04	1.00	1.002	1.00	49.27	50.00	1.084	1.100	0.99
57	20:10	1.00	1.007	1.00	46.91	50.00	1.021	1.089	0.94
58	21:30	1.00	1.074	1.00	49.96	50.00	1.701	1.702	1.00
59	22:46	1.00	1.137	1.00	48.37	50.00	1.134	1.173	0.97
60	26:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	23:16	1.00	0.893	1.00	62.83	50.00	2.001	1.592	1.26
62	23:13	1.00	0.892	1.00	62.25	50.00	0.018	0.014	1.25
63	24:52	1.00	0.955	1.00	66.05	50.00	1.262	0.955	1.32
64	26:07	1.00	1.002	1.00	59.16	50.00	0.066	0.056	1.18
65	26:00	1.00	0.998	1.00	56.09	50.00	1.321	1.178	1.12
66	26:18	1.00	1.010	1.00	70.87	50.00	1.864	1.315	1.42
67	26:06	1.00	1.002	1.00	50.58	50.00	1.425	1.409	1.01
68	28:02	1.00	1.076	1.00	67.86	50.00	3.092	2.278	1.36
69	30:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	29:05	1.00	0.963	1.00	62.30	50.00	1.208	0.969	1.25
71	29:09	1.00	0.965	1.00	67.57	50.00	1.436	1.063	1.35
72	30:19	1.00	1.004	1.00	52.24	50.00	1.119	1.071	1.04
73	36:11	1.00	1.198	1.00	56.38	50.00	0.447	0.397	1.13
74	36:27	1.00	1.207	1.00	62.94	50.00	0.429	0.341	1.26
75	37:55	1.00	1.256	1.00	50.02	50.00	0.387	0.387	1.00
	7:46	1.00	0.766	1.00	55.25	50.00	0.505	0.457	1.10
77	9:35	1.00	0.748	1.00	52.63	50.00	0.360	0.342	1.05
78	11:22	1.00	0.886	1.00	54.62	50.00	0.508	0.465	1.09
79	15:16	1.00	1.190	1.00	48.83	50.00	0.652	0.668	0.98
80	18:31	1.00	1.108	1.00	40.49	50.00	0.113	0.139	0.81
81	23:13	1.00	0.892	1.00	62.58	50.00	1.773	1.417	1.25
82	23:40	1.00	1.182	1.00	45.82	50.00	0.678	0.740	0.92

QUANTITATION REPORT FILE: H0840206C15

DATA: H0840206C15.TI

02/06/84 1:13:00

SAMPLE: 1UL STD 2342 (10914)

SUBMITTED BY: 15

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 HEXACHLORODETHANE
- 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 *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

003101
025411

NO NAME
 47 432 FLUORENE
 48 480 4-NITROANILINE
 49 604 4,6-DINITRO-O-CRESOL
 50 443 DIPHENYLAMINE (N-NITROSD)
 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	XTOT
1	130	811	10:08	1	1.000	A VV	49654.	40.000 NG	0.70
2	74	401	5:01	1	0.494	A BV	25757.	50.000 NG	0.87
3	94	770	9:37	1	0.949	A BV	57330.	50.000 NG	0.87
4	93	769	9:37	1	0.948	A BV	28720.	50.000 NG	0.87
5	93	779	9:44	1	0.961	A VV	68097.	50.000 NG	0.87
6	128	784	9:48	1	0.967	A BV	44878.	50.000 NG	0.87
7	146	805	10:04	1	0.993	A BV	51708.	50.000 NG	0.87
8	146	814	10:10	1	1.004	A VV	59143.	50.000 NG	0.87
9	108	842	10:31	1	1.038	A BV	26816.	50.000 NG	0.87
10	146	844	10:33	1	1.041	A BB	51876.	50.000 NG	0.87
11	108	865	10:49	1	1.067	A VV	47225.	50.000 NG	0.87
12	121	867	10:50	1	1.069	A BB	18069.	50.000 NG	0.87
13	108	889	11:07	1	1.096	A VV	46664.	50.000 NG	0.87
14	130	890	11:07	1	1.097	A BV	9876.	50.000 NG	0.87
15	117	894	11:10	1	1.102	A BB	25585.	50.000 NG	0.87
16	123	912	11:24	1	1.125	A BV	23989.	50.000 NG	0.87
17	136	1026	12:49	17	1.000	A BB	97488.	40.000 NG	0.70
18	82	952	11:54	17	0.928	A BV	108875.	50.000 NG	0.87

025412

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
19	139	966	12:04	17	0.942	A BV	24925.	50.000 NG	0.87
20	122	977	12:13	17	0.952	A BV	41000.	50.000 NG	0.87
21	93	993	12:25	17	0.968	A BV	64555.	50.000 NG	0.87
22	105	1013	12:40	17	0.987	A*BV	125916.	249.999 NG	4.37
23	162	1008	12:36	17	0.982	A BV	32247.	50.000 NG	0.87
24	180	1020	12:45	17	0.994	A BB	39062.	50.000 NG	0.87
25	128	1029	12:52	17	1.003	A BV	143732.	50.000 NG	0.87
26	127	1053	13:10	17	1.026	A VV	121877.	249.999 NG	4.37
27	225	1062	13:16	17	1.035	A BB	19681.	50.000 NG	0.87
28	107	1133	14:10	17	1.104	A BV	51635.	50.000 NG	0.87
29	115	1151	14:23	17	1.122	A BB	41458.	50.000 NG	0.87
30	237	1191	14:53	17	1.161	A BB	4958.	50.000 NG	0.87
31	196	1207	15:05	17	1.176	A BV	20947.	50.000 NG	0.87
32	196	1215	15:11	17	1.184	A VV	101758.	249.999 NG	4.37
33	164	1338	16:43	33	1.000	A BB	51002.	40.000 NG	0.70
34	162	1236	15:27	33	0.924	A BB	75219.	50.000 NG	0.87
35	138	1266	15:49	33	0.946	A BV	127831.	249.999 NG	4.37
36	163	1303	16:17	33	0.974	A BB	92805.	50.000 NG	0.87
37	152	1311	16:23	33	0.980	A BB	109312.	50.000 NG	0.87
38	165	1315	16:26	33	0.983	A BB	17890.	50.000 NG	0.87
39	138	1351	16:53	33	1.010	A*VV	3964.	249.999 NG	4.37
40	154	1344	16:48	33	1.004	A BB	72414.	50.000 NG	0.87
41	184	1362	17:01	33	1.018	A BV	5881.	249.999 NG	4.37
42	109	1390	17:22	33	1.039	A BV	3224.	125.000 NG	2.19
43	168	1373	17:10	33	1.026	A BV	103274.	50.000 NG	0.87
44	165	1384	17:18	33	1.034	A BV	25855.	50.000 NG	0.87
45	149	1429	17:52	33	1.068	A BV	103854.	50.000 NG	0.87
46	204	1436	17:57	33	1.073	A BB	29480.	50.000 NG	0.87
47	166	1434	17:55	33	1.072	A BV	77753.	50.000 NG	0.87
48	138	1471	18:23	33	1.099	A*VV	7658.	249.999 NG	4.37
49	198	1456	18:12	33	1.088	A BV	30211.	249.999 NG	4.37
50	169	1460	18:15	33	1.091	A BB	44823.	50.000 NG	0.87
51	77	1464	18:18	33	1.094	A VV	135004.	50.000 NG	0.87
52	188	1601	20:01	52	1.000	A BV	82307.	40.000 NG	0.70
53	248	1522	19:01	52	0.951	A BB	17401.	50.000 NG	0.87
54	284	1547	19:20	52	0.966	A BB	20126.	50.000 NG	0.87
55	266	1584	19:48	52	0.989	A BV	3829.	50.000 NG	0.87
56	178	1605	20:04	52	1.002	A BV	111554.	50.000 NG	0.87
57	178	1613	20:10	52	1.007	A VV	105090.	50.000 NG	0.87
58	149	1720	21:30	52	1.074	A VV	174963.	50.000 NG	0.87
59	202	1820	22:45	52	1.137	A VV	116690.	50.000 NG	0.87
60	240	2083	26:02	60	1.000	A BV	45932.	40.000 NG	0.70
61	202	1861	23:16	60	0.893	A VV	114877.	50.000 NG	0.87
62	184	1858	23:13	60	0.892	A BB	1033.	50.000 NG	0.87
63	149	1990	24:52	60	0.955	A VV	72471.	50.000 NG	0.87
64	252	2090	26:07	60	1.003	A*BV	3806.	50.000 NG	0.87
65	228	2080	26:00	60	0.999	A BV	75871.	50.000 NG	0.87
66	149	2103	26:17	60	1.010	A VV	107015.	50.000 NG	0.87
67	228	2088	26:06	60	1.002	A VV	81803.	50.000 NG	0.87
68	149	2241	28:01	60	1.076	A VV	177519.	50.000 NG	0.87
69	264	2415	30:11	69	1.000	A BV	33028.	40.000 NG	0.70
70	232	2326	29:04	69	0.963	A BV	49867.	50.000 NG	0.87
71	252	2332	29:09	69	0.966	A VV	59289.	50.000 NG	0.87
72	252	2423	30:17	69	1.003	A BV	46192.	50.000 NG	0.87
73	276	2897	36:13	69	1.200	A*BV	18469.	50.000 NG	0.87
74	278	2916	36:27	69	1.207	A BV	17711.	50.000 NG	0.87

003163

025413

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HOHT)	AMOUNT	%TOT
75	276	3033	37:55	69	1.256	A*BB	15981.	50.000 NG	0.87
76	112	623	7:47	1	0.768	A BV	31371.	50.000 NG	0.87
77	99	768	9:36	17	0.749	A BV	43915.	50.000 NG	0.87
78	82	909	11:22	17	0.886	A BV	61900.	50.000 NG	0.87
79	172	1221	15:16	17	1.190	A BB	79508.	50.000 NG	0.87
80	330	1482	18:31	33	1.108	A BB	7189.	50.000 NG	0.87
81	212	1857	23:13	60	0.892	A BB	101822.	50.000 NG	0.87
82	244	1893	23:40	52	1.182	A BV	69766.	50.000 NG	0.87

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:01	1.00	0.494	1.00	50.00	50.00	0.415	0.415	1.00
3	9:37	1.00	0.949	1.00	50.00	50.00	0.924	0.924	1.00
4	9:37	1.00	0.948	1.00	50.00	50.00	0.463	0.463	1.00
5	9:44	1.00	0.961	1.00	50.00	50.00	1.097	1.097	1.00
6	9:48	1.00	0.967	1.00	50.00	50.00	0.723	0.723	1.00
7	10:04	1.00	0.993	1.00	50.00	50.00	0.833	0.833	1.00
8	10:10	1.00	1.004	1.00	50.00	50.00	0.953	0.953	1.00
9	10:31	1.00	1.038	1.00	50.00	50.00	0.432	0.432	1.00
10	10:33	1.00	1.041	1.00	50.00	50.00	0.836	0.836	1.00
11	10:49	1.00	1.067	1.00	50.00	50.00	0.761	0.761	1.00
12	10:50	1.00	1.069	1.00	50.00	50.00	0.291	0.291	1.00
13	11:07	1.00	1.096	1.00	50.00	50.00	0.752	0.752	1.00
14	11:07	1.00	1.097	1.00	50.00	50.00	0.159	0.159	1.00
15	11:10	1.00	1.102	1.00	50.00	50.00	0.412	0.412	1.00
16	11:24	1.00	1.125	1.00	50.00	50.00	0.386	0.386	1.00
17	12:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
18	11:54	1.00	0.928	1.00	50.00	50.00	0.893	0.893	1.00
19	12:04	1.00	0.942	1.00	50.00	50.00	0.205	0.205	1.00
20	12:13	1.00	0.952	1.00	50.00	50.00	0.336	0.336	1.00
21	12:25	1.00	0.968	1.00	50.00	50.00	0.530	0.530	1.00
22	12:40	1.00	0.987	1.00	250.00	250.00	0.207	0.207	1.00
23	12:36	1.00	0.982	1.00	50.00	50.00	0.265	0.265	1.00
24	12:45	1.00	0.994	1.00	50.00	50.00	0.321	0.321	1.00
25	12:52	1.00	1.003	1.00	50.00	50.00	1.179	1.179	1.00
26	13:10	1.00	1.026	1.00	250.00	250.00	0.200	0.200	1.00
27	13:16	1.00	1.035	1.00	50.00	50.00	0.162	0.162	1.00
28	14:10	1.00	1.104	1.00	50.00	50.00	0.424	0.424	1.00
29	14:23	1.00	1.122	1.00	50.00	50.00	0.340	0.340	1.00
30	14:53	1.00	1.161	1.00	50.00	50.00	0.041	0.041	1.00
31	15:05	1.00	1.176	1.00	50.00	50.00	0.169	0.169	1.00
32	15:11	1.00	1.184	1.00	250.00	250.00	0.167	0.167	1.00
33	16:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
34	15:27	1.00	0.924	1.00	50.00	50.00	1.180	1.180	1.00
35	15:49	1.00	0.946	1.00	250.00	250.00	0.401	0.401	1.00
36	16:17	1.00	0.974	1.00	50.00	50.00	1.456	1.456	1.00
37	16:23	1.00	0.980	1.00	50.00	50.00	1.715	1.715	1.00
38	16:26	1.00	0.983	1.00	50.00	50.00	0.281	0.281	1.00
39	16:53	1.00	1.010	1.00	250.00	250.00	0.012	0.012	1.00
40	16:48	1.00	1.004	1.00	50.00	50.00	1.136	1.136	1.00
41	17:01	1.00	1.018	1.00	250.00	250.00	0.018	0.018	1.00
42	17:22	1.00	1.039	1.00	125.00	125.00	0.020	0.020	1.00
43	17:10	1.00	1.026	1.00	50.00	50.00	1.620	1.620	1.00
44	17:18	1.00	1.034	1.00	50.00	50.00	0.406	0.406	1.00
45	17:52	1.00	1.068	1.00	50.00	50.00	1.629	1.629	1.00
46	17:57	1.00	1.073	1.00	50.00	50.00	0.462	0.462	1.00

003104

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	17:55	1.00	1.072	1.00	50.00	50.00	1.220	1.220	1.00
48	18:23	1.00	1.099	1.00	250.00	250.00	0.024	0.024	1.00
49	18:12	1.00	1.088	1.00	250.00	250.00	0.095	0.095	1.00
50	18:15	1.00	1.091	1.00	50.00	50.00	0.703	0.703	1.00
51	18:18	1.00	1.094	1.00	50.00	50.00	2.118	2.118	1.00
52	20:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	19:01	1.00	0.951	1.00	50.00	50.00	0.169	0.169	1.00
54	19:20	1.00	0.966	1.00	50.00	50.00	0.196	0.196	1.00
55	19:48	1.00	0.989	1.00	50.00	50.00	0.037	0.037	1.00
56	20:04	1.00	1.002	1.00	50.00	50.00	1.084	1.084	1.00
57	20:10	1.00	1.007	1.00	50.00	50.00	1.021	1.021	1.00
58	21:30	1.00	1.074	1.00	50.00	50.00	1.701	1.701	1.00
59	22:45	1.00	1.137	1.00	50.00	50.00	1.134	1.134	1.00
60	26:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
61	23:16	1.00	0.893	1.00	50.00	50.00	2.001	2.001	1.00
62	23:13	1.00	0.892	1.00	50.00	50.00	0.018	0.018	1.00
63	24:52	1.00	0.955	1.00	50.00	50.00	1.262	1.262	1.00
64	26:07	1.00	1.003	1.00	50.00	50.00	0.066	0.066	1.00
65	26:00	1.00	0.999	1.00	50.00	50.00	1.321	1.321	1.00
66	26:17	1.00	1.010	1.00	50.00	50.00	1.864	1.864	1.00
67	26:06	1.00	1.002	1.00	50.00	50.00	1.425	1.425	1.00
68	28:01	1.00	1.076	1.00	50.00	50.00	3.092	3.092	1.00
69	30:11	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
70	29:04	1.00	0.963	1.00	50.00	50.00	1.208	1.208	1.00
71	29:09	1.00	0.966	1.00	50.00	50.00	1.436	1.436	1.00
72	30:17	1.00	1.003	1.00	50.00	50.00	1.119	1.119	1.00
73	36:13	1.00	1.200	1.00	50.00	50.00	0.447	0.447	1.00
74	36:27	1.00	1.207	1.00	50.00	50.00	0.429	0.429	1.00
75	37:55	1.00	1.256	1.00	50.00	50.00	0.387	0.387	1.00
76	7:47	1.00	0.768	1.00	50.00	50.00	0.505	0.505	1.00
	9:36	1.00	0.749	1.00	50.00	50.00	0.360	0.360	1.00
78	11:22	1.00	0.886	1.00	50.00	50.00	0.508	0.508	1.00
79	15:16	1.00	1.190	1.00	50.00	50.00	0.652	0.652	1.00
80	18:31	1.00	1.108	1.00	50.00	50.00	0.113	0.113	1.00
81	23:13	1.00	0.892	1.00	50.00	50.00	1.773	1.773	1.00
82	23:40	1.00	1.182	1.00	50.00	50.00	0.678	0.678	1.00

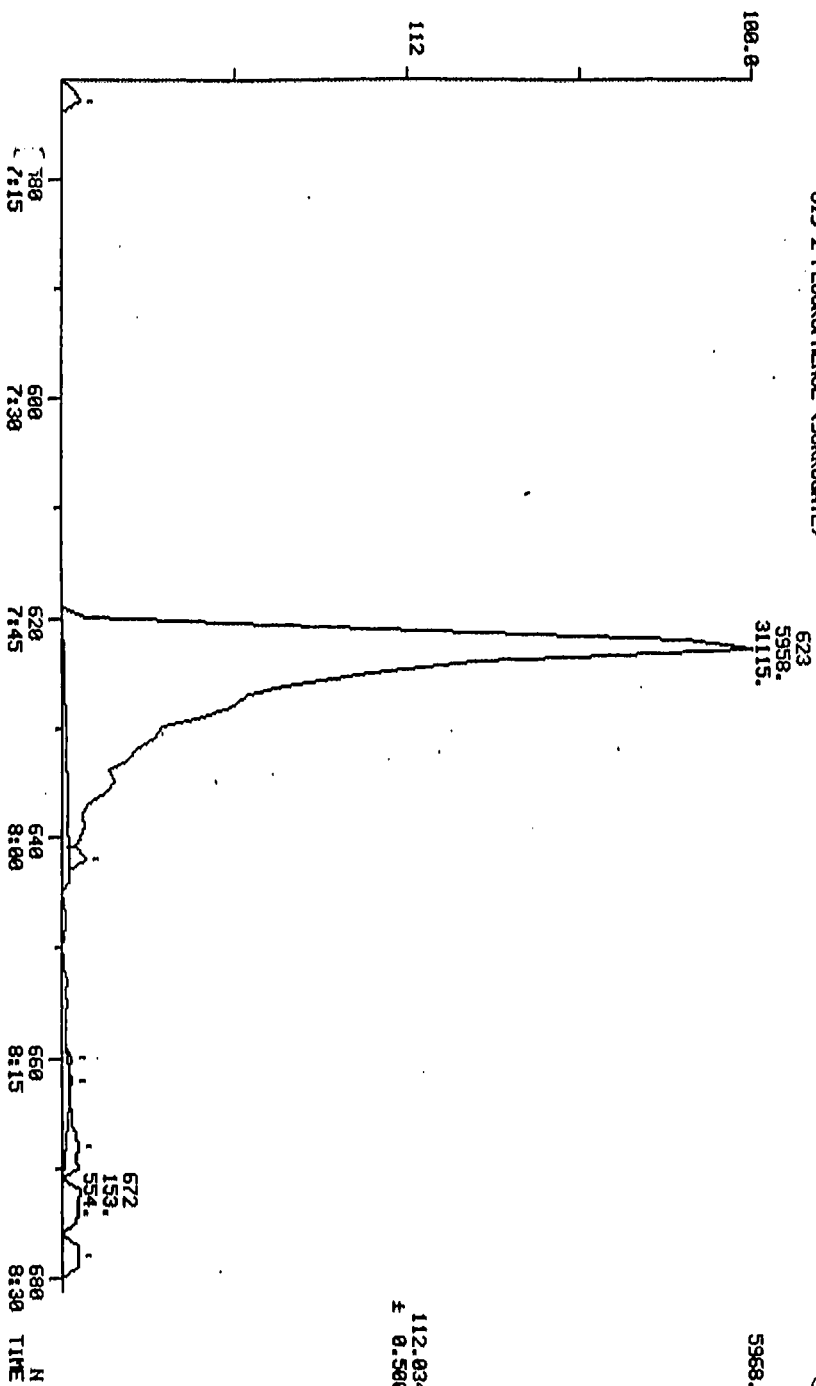
007165

31

025415

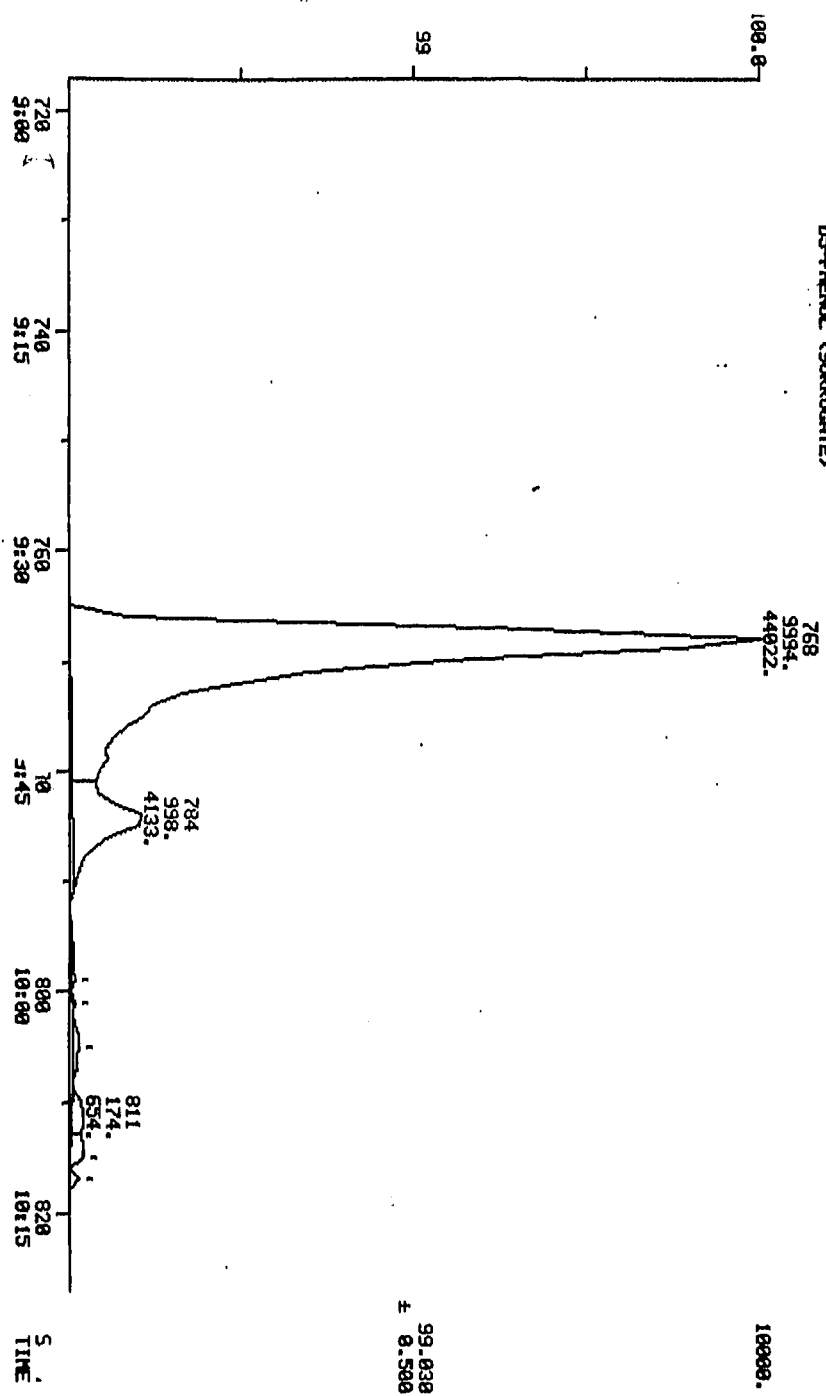
MASS CHROMATOGRAM
 02/06/84 1:13:00
 SAMPLE: IUL STD 2342 (10914)
 619 2-FLUOROPHENOL (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: H0840206C15 SCANS 571 TO 681



MASS CHROMATOGRAM
 02/06/94 1:13:00
 SAMPLE: IUL STD 2342 (10914)
 DS-PHENOL (SURROGATE)

HEAD CONFUCHEN
 CONFUCHEN DATA: MS840206C15 SCANS 717 TO 827



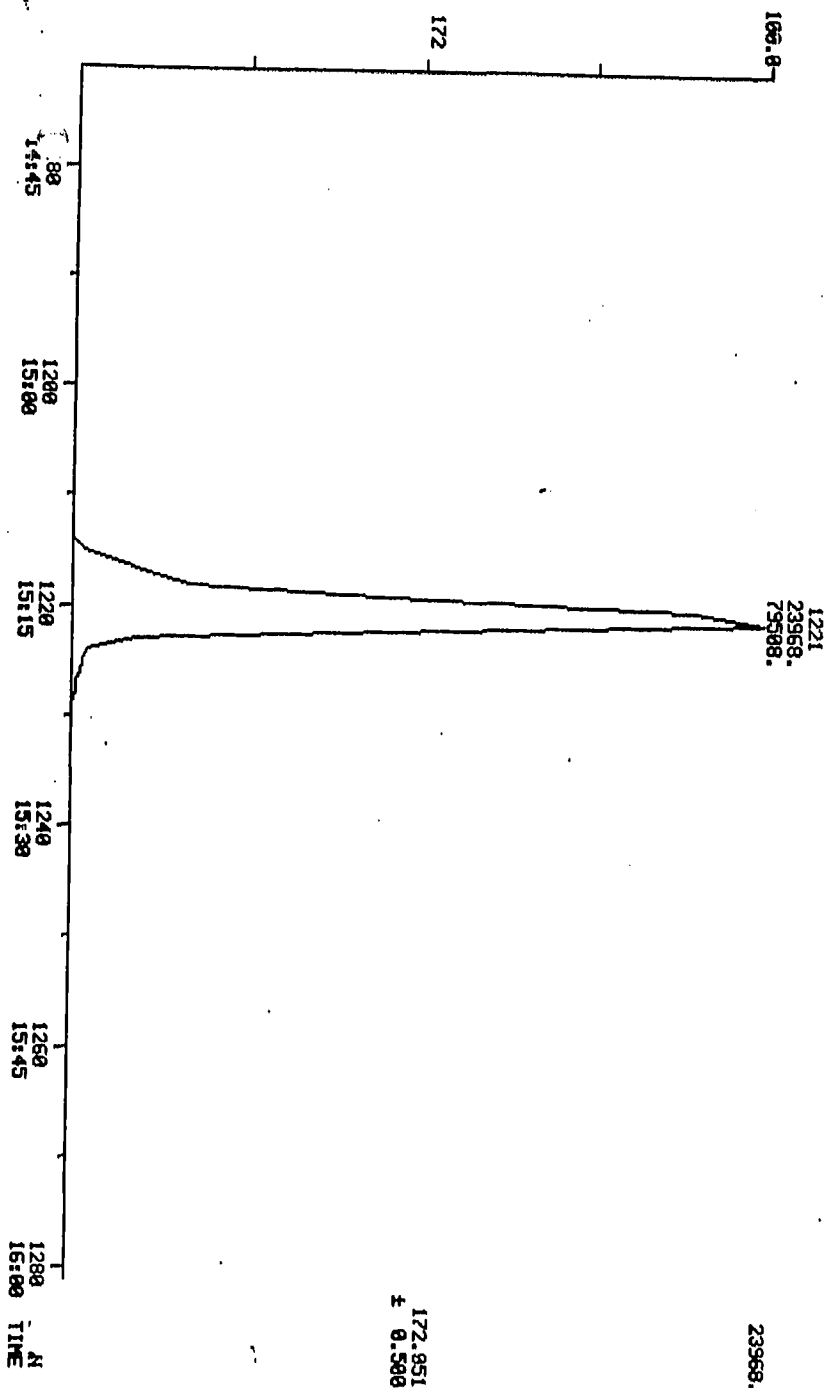
000002
 025417

MASS CHROMATOGRAM
 92/06/84 1:13:00
 SAMPLE: IUL STD 2342 (10914)
 448 2-FLUOROBIPHENYL (SURROGATE)

HEAD COMPUCHEN

COMPUCHEN DATA: HC840206C15 SCANS 1171 TO 1281

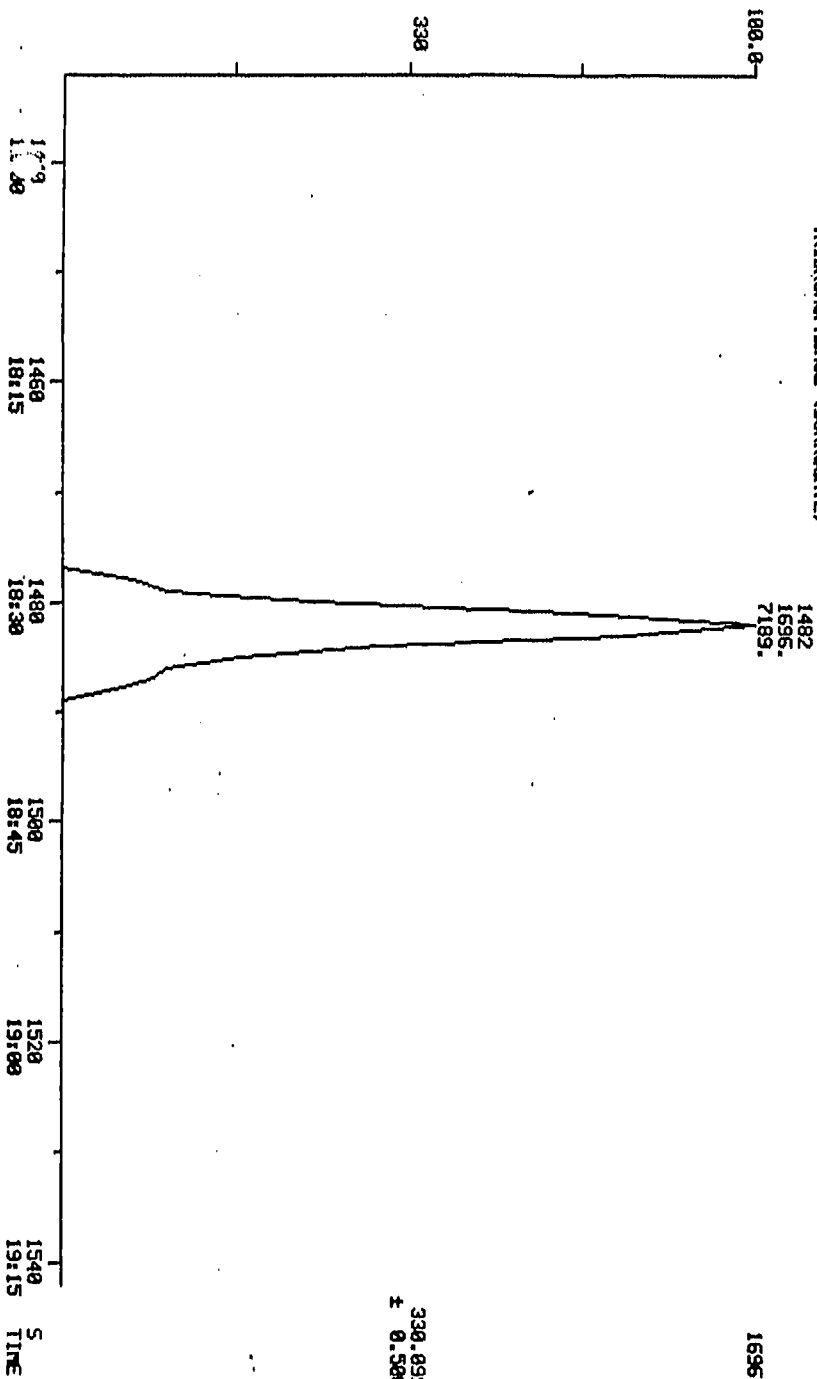
007749
 025413



MASS CHROMATOGRAM
02/06/84 1:13:00
SAMPLE: IUL STD 2342 (10914)
TRIBROMOPHENOL (SURROGATE)

HEAD COMPUCHEN

COMPUCHEN DATA: HG840206C15 SCANS 1432 TO 1542

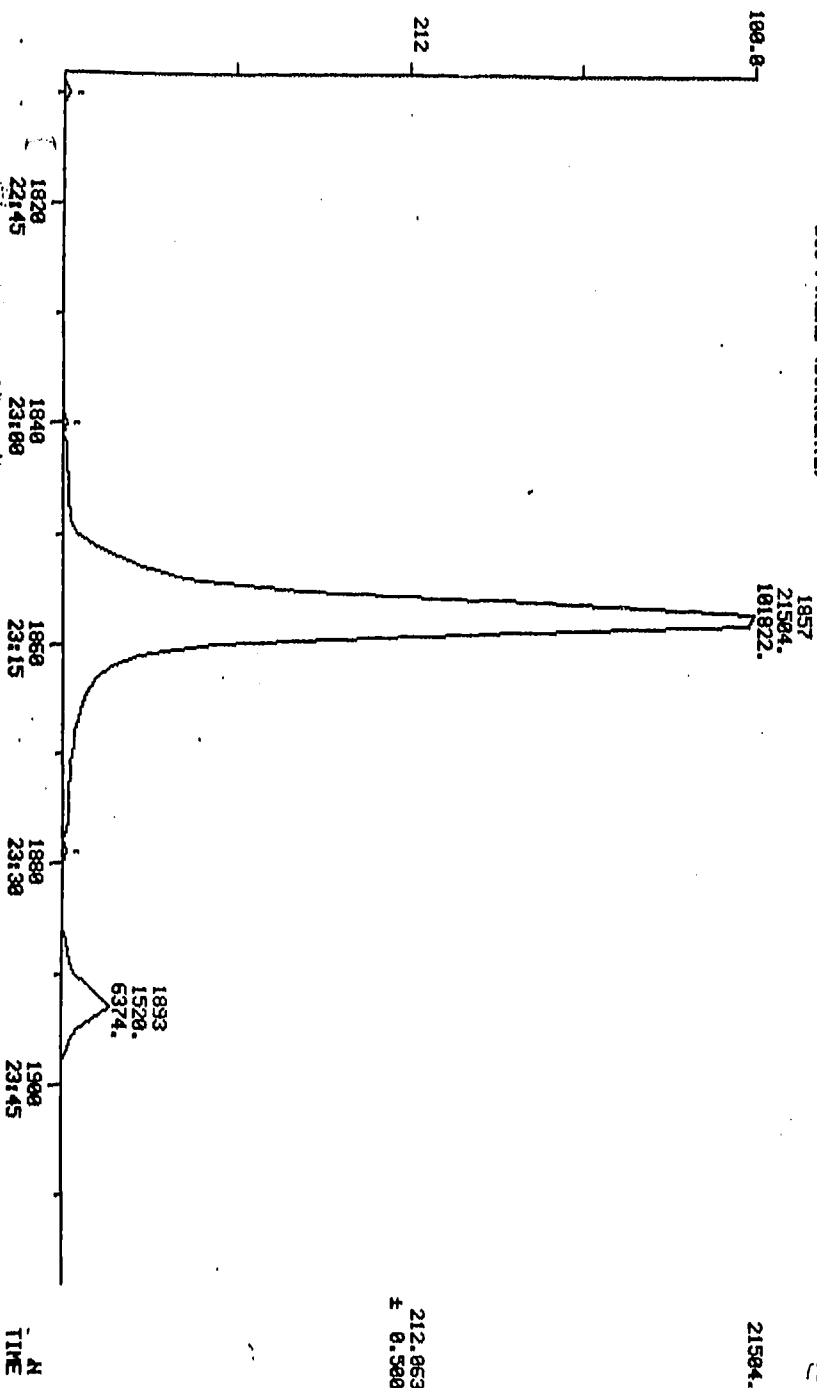


003110
025420

31

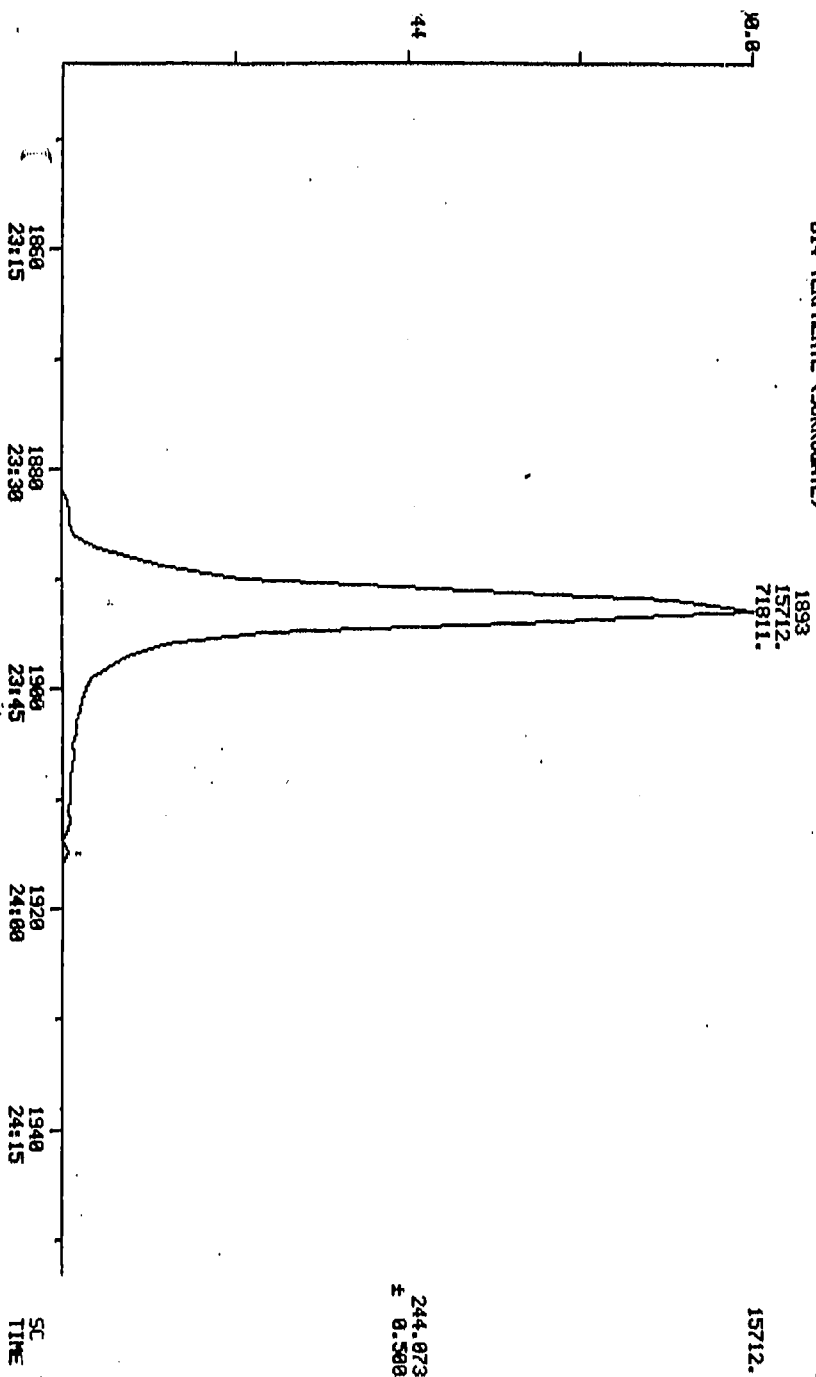
MASS CHROMATOGRAM
 02/06/84 1:13:00
 SAMPLE: 1UL STD 2342 (10914)
 D10-PYRENE (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: H0840206C15 SCANS 1000 TO 1010



MASS CHROMATOGRAM
 02/06/84 11:13:00
 SAMPLE: IUL STD 2342 (18914)
 D14-TERPENTYL (SURROGATE)

HEAD COMPUCHEN
 COMPUCHEN DATA: H0840206C15 SCANS 1843 TO 1953



31

025422

Shift(s) (A) _____ (B) 2/6/8/4 (C) ✓
Date _____
Analysis Type ESCC7 • 27

Press Hard, Multiple Copies

9	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS
15			1.6	754		157	10956
15			1.6	754		157	10956
15			1.6	754		157	570 2342 (10914)
15			1.6	754		157	5.6 75 (10955)
15			1.6	754		157	5.6 75 (10955) 20-1.024720
15			1.6	754		157	5.6 75 (10955)
15			1.6	754		157	5.6 75 (10955)
15			1.6	754		157	5.6 75 (10955)
15			1.6	754		157	5.6 75 (10955)

FECC "CHECK STANDARD" TABULATION

15

STANDARD FILE NAME H6840206C15

DATE 2/6/84

OPERATOR 754

025425

2/20/84

CHECK CATEGORY	← THREE POINT MULTI-POINT →				MULTIPOINT ADJUSTED RESPONSE FACTOR	CURRENT RESPONSE FACTOR	PERCENT DIFFERENCE	PERFORMANCE CRITERIA
	20 mg RESPONSE FACTOR	50 mg RESPONSE FACTOR	100 mg RESPONSE FACTOR	200 mg RESPONSE FACTOR				
1. ~~Standard Error~~ (10)	1.038	0.932	0.872	0.917	0.953	2	± Difference < 1%	
2. ~~Standard Error~~ (20)	1.235	1.183	1.147	1.189	1.177	< 1	± Difference < 1%	
3. ~~Standard Error~~ (40)	1.218	1.155	1.142	1.172	1.136	2	± Difference < 1%	
4. ~~Standard Error~~ (50)	1.030	1.014	0.999	1.014	1.084	7	± Difference < 1%	
5. ~~Standard Error~~ (57)	1.361	1.093	1.144	1.331	1.425	7	± Difference < 1%	
6. ~~Standard Error~~ (53)	1.088	0.898	1.000	0.998	1.119	12	± Difference < 1%	
7. ~~Standard Error~~ (40)	0.985	0.885	0.971	0.954	0.893	6	± Difference < 1%	
8. ~~Standard Error~~ (20)	1.694	1.723	1.679	1.699	1.701	< 1	± Difference < 1%	
9. ~~Standard Error~~ (20)	✓	✓	✓	✓			± Difference < 1%	
10. ~~Standard Error~~ (10)	✓	✓	✓	✓			± Difference < 1%	

Intermittent only

Intermittent only

C

003116 025426

31

PA CASE# 0333

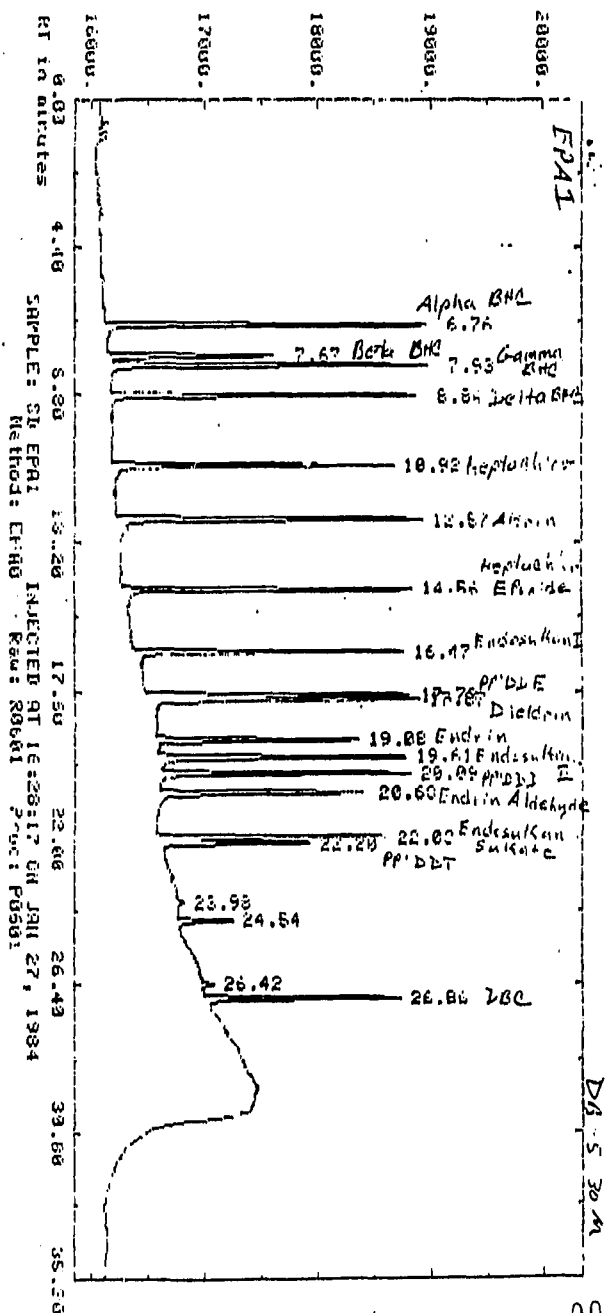
HEAD COMPUCHEN CASE SUMMARY REFERENCE GUIDE

REVIEWER AK
date 7-23-84

Section	associated time	associated shift std.	CC #	EPA SN#	Analysis Date/Name	Voa Inst. blank	Extract. Date	Assoc. Blk#	Comment
est		EPA 1 30530M 11:3417 1:24 EPA1 D8-5 30M 14:07:25 1:4	10270	R3700					
		"	19269	R3688					
		"	19268	R3696					
		"	19267	R3511					
		"	19266	R3509					
		"	19265	R3607					
		"	19264	R3503					
		"	19257	R3501					

025427

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



SAMPLE: CB EPAL INJECTED AT 16:28:17 ON JAN 27, 1984

Method: EPAL Run: R0601 P-001 P0501

Report: 1805.33 Channel: 0

Sample: 50 LPM

Injected at 16:20:17 on Jan 27, 1978

LSO Method: M01P01 Seq. 38406 Subseq/amp. 12 1 311. 1

SI Width MV/min Delay Non-Ap Punch
1250 300 3.00 100

Sup-Unit Det ID-1 V1 Ref-R1W ZR1W ZD3-R 150
NO 0.00 0 .30 5.0 100.00 150

Actual Run Time: 35.217 minutes

RT	FIN	Factor	Area	MG/UL	NAME
6.76	6.77	.305610-05	164581. BB	.050	ALPHA BHC
7.67	7.68	.567506-05	80000. BV	.050	BETA BHC
7.93	7.94	.303631-05	10403. VB	.050	6666A BHC
8.04	8.05	.335461-05	14905. BB	.050	DELTA BHC
10.97	10.98	.322826-05	15403. BB	.050	HEPTACH BHC
12.57	12.58	.323066-05	15477. BB	.050	ALDRIN
14.56	14.56	.338231-05	15737. BB	.050	HEPTACH OR PPOXIN
16.47	16.47	.336391-05	14864. BB	.050	ENDOSULFAN A
17.23	17.24	.332771-05	14413. BV	.050	PP'DDD
17.87	17.88	.340231-05	14626. VB	.050	DIELDRIN
19.00	19.01	.362801-05	18823. BB	.050	ENDRIN
19.61	19.62	.351161-05	14238. BB	.050	ENDOSULFAN A
20.07	20.07	.377291-05	13752. BB	.050	PP'DDD
20.68	20.68	.410101-05	12170. BB	.050	ENDRIN ALDEHYDE
22.03	22.03	.396711-05	12684. BV	.050	ENDOSULFAN BHC
22.20	22.20	.620171-05	7757. VB	.050	PP'DDD
23.90	0.00	.100000100	263. BB	263.313	
24.54	0.00	.100000100	2700. BB	2707.563	
26.47	0.00	.100000100	577. BB	576.750	
26.86	26.86	.350250-05	8757. BB	.050	#000

Total Area = 229756.

Total MG/UL = 8956.625

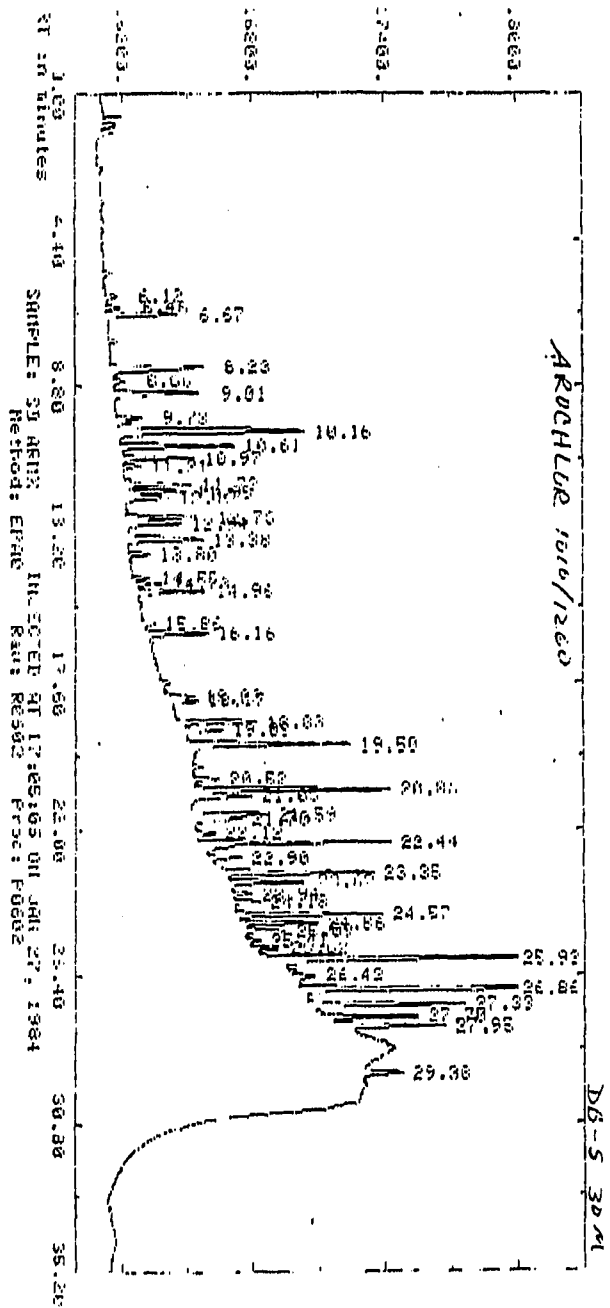
Processed data file: P0601

Raw data file: R0601

003113

31

025423



Report: 1004 33 Channel: 0

Sample: 50 ERMA

Injected at 17:05:05 on Jun 27, 1966

ESD Method: MURKIN Seq. SERUS Subsq/5amp: 12 P B1: 2

SD Width	MV/Div	Delay	Min. AP	Range
250	300	5.00	100	
Sup. Ink	DVI	LD-101	Ref-R10	%RTW
NO	0.00	0	30	5.0
				200.00
				180

Actual run time: 35.217 minutes

Summed designated peaks

RT	AM	Factor	Area	(Hz/M)	Range
6.12	0.00	1.00000100	256.00	256.000	
6.46	0.00	1.00000100	663.00	663.000	
6.67	0.66	1.52566100	1967.00	300	4PCB1016-6
8.78	0.66	1.71229100	4113.00	300	4PCB1016-11
8.66	0.66	1.05991100	204.00	300	4PCB1016-1
9.05	9.02	1.27272100	2444.00	300	4PCB1016-0
9.78	0.00	1.00000100	1018.00	1018.000	
10.16	10.17	1.38123100	7127.00	300	4PCB1016-1
10.61	10.62	1.21722100	6562.00	300	4PCB1016-1
10.97	10.97	1.15197100	1763.00	300	4PCB1016-6
11.71	11.72	1.62663100	477.00	300	4PCB1016-11
11.78	11.73	1.4613100	2047.00	300	4PCB1016-1
11.97	11.98	1.1244100	1743.00	300	4PCB1016-6
12.12	12.13	1.20114100	1493.00	300	4PCB1016-6
12.78	12.76	1.12433100	2415.00	300	4PCB1016-1
12.94	12.94	1.2763100	1609.00	300	4PCB1016-6
13.38	13.36	1.1076100	2704.00	300	4PCB1016-6
13.80	0.00	1.00000100	150.00	569.625	
14.54	0.00	1.00000100	402.00	402.500	
14.78	0.00	1.00000100	777.00	777.219	
14.96	14.96	1.4363100	2082.00	300	4PCB1016-0
15.06	0.00	1.00000100	244.00	244.625	
16.16	16.16	1.64892100	1012.00	300	4PCB1016-1
16.03	0.00	1.00000100	729.00	729.750	
16.17	0.00	1.00000100	777.00	777.033	
16.03	16.04	1.3583100	2209.00	300	4PCB1260-6
17.03	17.07	1.23452100	1272.00	300	4PCB1260-11
17.50	17.51	1.6443100	4113.00	300	4PCB1260-1
20.52	0.00	1.00000100	663.00	662.625	
20.06	20.07	1.52753100	5687.00	300	4PCB1260-0
21.05	21.05	1.17002100	1685.00	300	4PCB1260-1
21.59	21.59	1.15110100	2317.00	300	4PCB1260-1
21.70	21.73	1.22371100	1346.00	300	4PCB1260-6
22.17	0.00	1.00000100	622.00	622.750	
22.44	22.45	1.46253100	6485.00	300	4PCB1260-11
22.90	22.90	1.27272100	802.00	300	4PCB1260-1
23.35	23.36	1.27473100	4318.00	300	4PCB1260-1

31

003121

025431

23.67 23.62 .140171-03
 23.74 0.00 .100000-01
 24.33 0.00 .100000-01
 24.37 24.35 .796923-04
 24.86 24.86 .110331-03
 25.02 25.02 .112530-03
 25.43 0.00 .100000-01
 25.67 0.00 .100000-01
 25.93 25.93 .124441-04
 26.43 0.00 .100000-01
 26.86-26.86 .152159-05
 27.33 27.33 .230000-04
 27.70 27.70 .110411-03
 27.95 27.94 .123301-03
 28.38 0.00 .100000-01

Total Area = 114673

Processed data file: P0602

2140. VB .300 11031260 L
 446. BB 446.094
 650. BB 649.688
 3265. BB .300 11031260 L
 1195. BV .300 11031260 L
 1411. VB .300 11031260 L
 2933. BB 2932.969
 502. BB 502.125
 2247. BB .300 11031260 L
 126. BB 126.313
 8740. BB .050 4000
 4065. BB .300 11031260 L
 1995. BV .300 11031260 L
 2433. VB .300 11031260 L
 1024. BB 1023.750

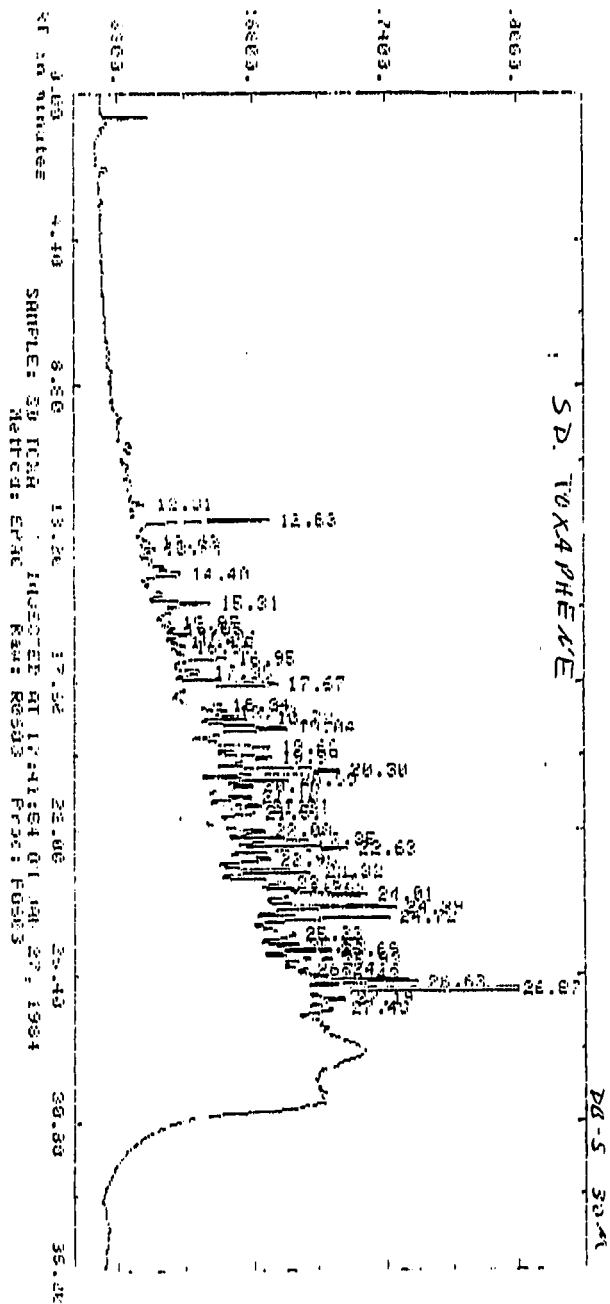
Total UG/M. = 1023.750

Raw data file: R0602

003122

31

025432



003123

025433

Report: 1805.11 Channel: 0

Sample: 10 TORA

Injected at 12:43:54 on Jan 27, 1966

LSID Method: MUDRA Seq. 00000 Subseq: 00000 Ret. 0

SL Width	MV/Min	Delay	Min Ar	Bunch
1250	300	5.00	100	

Sup. Link	Det	LD-101	Ref. R10	%R10	%D10	140
NO	0.00	0	130	5.0	100.00	NO

Actual run time: 55.217 minutes

Summed designated peaks

RT	1TH	Factor	Area	UG/GR	NAME
12.31	0.00	100000.00	2004.00	2004.500	
12.86	0.00	100000.00	3777.00	3777.250	
13.43	0.00	100000.00	2172.00	2187.750	
13.68	0.00	100000.00	2066.00	2066.000	
14.46	0.00	100000.00	2241.00	2240.000	
15.33	15.33	795071.00	175.00	1.000	110XAPH-6
15.87	0.00	100000.00	202.00	202.000	
16.03	0.00	100000.00	253.00	253.000	
16.28	0.00	100000.00	633.00	632.000	
16.43	0.00	100000.00	177.00	177.000	
16.57	0.00	100000.00	206.00	206.000	
16.95	0.00	100000.00	1562.00	1562.750	
17.35	0.00	100000.00	1006.00	1006.000	
17.67	17.67	254701.00	4263.00	1.000	110XAPH-1
18.34	18.34	103337.00	270.00	1.000	110XAPH-1
18.56	0.00	100000.00	577.00	577.250	
18.72	18.72	705036.00	1410.00	1.000	110XAPH-0
19.04	19.04	713091.00	4675.00	1.000	110XAPH-1
19.60	19.60	405729.00	2485.00	1.000	110XAPH-1
19.89	19.89	756071.00	1046.00	1.000	110XAPH-6
20.30	20.29	171181.00	5042.00	1.000	110XAPH-0
20.59	20.58	425951.00	2440.00	1.000	110XAPH-1
20.76	20.76	676461.00	1478.00	1.000	110XAPH-3
21.10	21.10	744411.00	1343.00	1.000	110XAPH-0
21.34	0.00	100000.00	1559.00	1558.700	
21.51	21.52	301541.00	2673.00	1.000	110XAPH-1
22.00	0.00	100000.00	2777.00	2776.670	
22.35	22.34	246531.00	4050.00	1.000	110XAPH-0
22.63	22.63	179271.00	5010.00	1.000	110XAPH-0
22.95	0.00	100000.00	2705.00	2705.000	
23.37	23.32	303751.00	3272.00	1.000	110XAPH-0
23.67	23.66	572211.00	1740.00	1.000	110XAPH-1
23.87	0.00	100000.00	177.00	176.650	
24.01	24.01	427741.00	2330.00	1.000	110XAPH-0
24.37	24.37	244771.00	4005.00	1.000	110XAPH-0
24.72	24.72	263411.00	4342.00	1.000	110XAPH-0
25.25	0.00	100000.00	1170.00	1170.000	

003124
025434

25.58	25.52	113431	07
25.62	25.62	52226	05
25.96	25.92	64376	05
26.24	0.00	100000	101
26.48	0.00	100000	101
26.60	26.84	131005	05
26.82	26.82	141662	05
27.12	27.12	122800	07
27.40	27.40	220531	02

Total Area = 94215

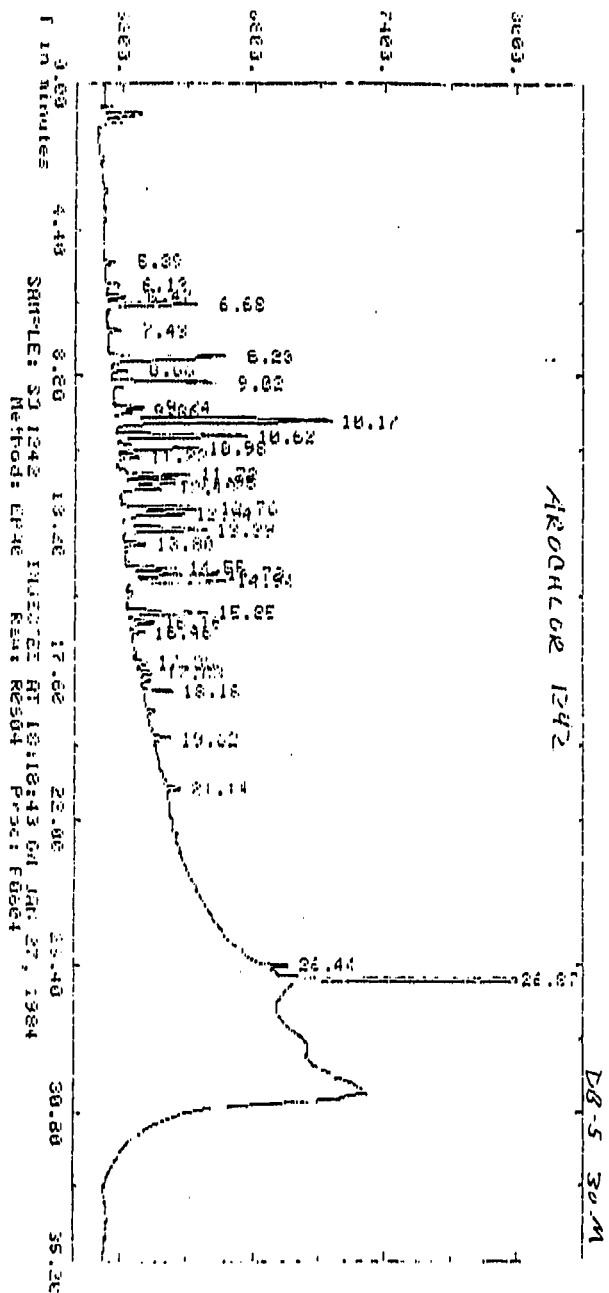
Processed data file: P0600

1822	BV	1.000	1102618	1
1662	VV	1.000	1102618	1
1425	VB	1.000	1102618	1
363	BB	302.022		
762	BV	760.503		
3225	VV	1.000	1102618	1
11026	VV	1.050	1000	
506	VB	1.000	1102618	1
344	BB	1.000	1102618	1

Total UG/ML = 344.212

Raw data file: R0600

0025435



025436

Report: 1806 11 Channel: 0

Sample: 00 1247

Injected at 10:10:43 on 06/27/1985

LSID Method: 001742 Seq: 00005 Subseq/Range: 1-4 R11: 8

SLD Width	MV/Min	Delay	Min Ar	Runch
.250	.300	3.00	100	

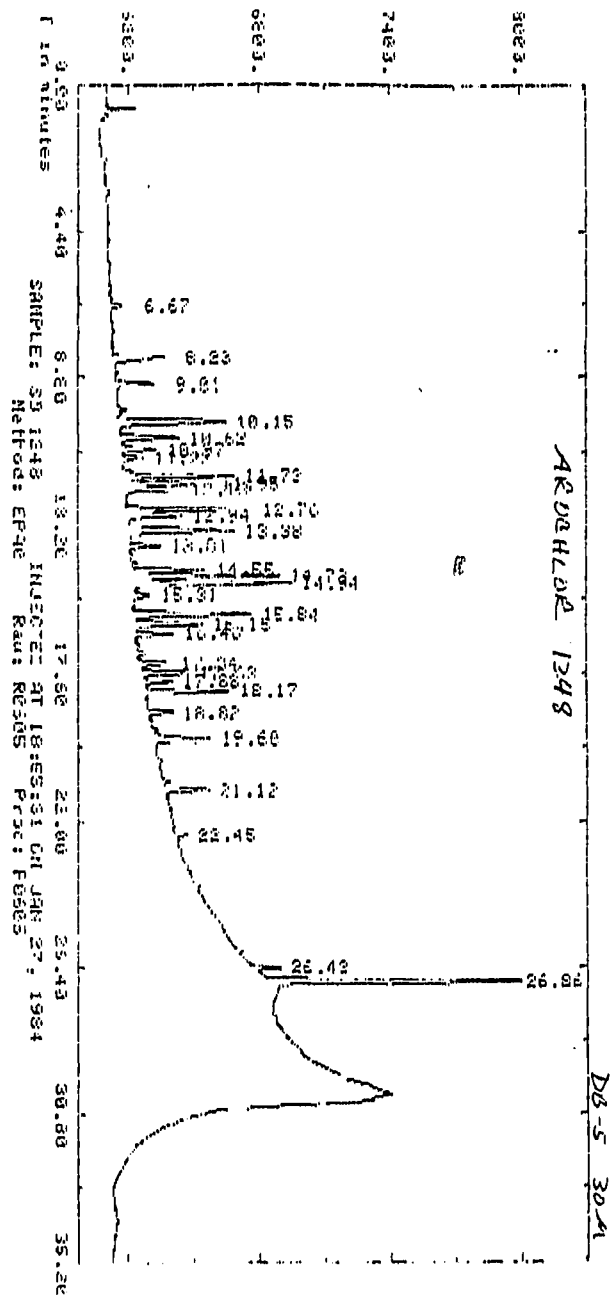
Suprunk	DVI	ID-LOI	Ref-RTO	%RTO	%DVI-F	Acc
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 35.217 minutes

Summed designated peaks

RT	RTn	Factor	Area	GRS 2	Name
5.32	0.00	.100000E+01	242.00	241.625	
6.13	0.00	.100000E+01	304.00	303.625	
6.47	0.00	.100000E+01	465.00	465.125	
6.60	6.60	.152360E+03	2542.00	.400	11001242-6
7.43	0.00	.100000E+01	263.00	232.875	
8.15	8.24	.750400E+04	5333.00	.400	11001242-8
8.66	0.00	.100000E+01	371.00	371.250	
9.02	9.02	.133340E+03	3040.00	.400	11001242-8
9.74	0.00	.100000E+01	202.00	202.750	
9.86	0.00	.100000E+01	190.00	192.750	
10.12	10.12	.145540E+03	2104.00	.400	11001242-9
10.62	10.62	.106050E+03	3772.00	.400	11001242-1
10.90	10.90	.177310E+03	2252.00	.400	11001242-1
11.22	0.00	.100000E+01	55.00	55.750	
11.73	11.74	.134650E+03	1705.00	.400	11001242-1
11.95	11.96	.157640E+03	1752.00	.400	11001242-1
12.13	12.14	.125370E+03	1572.00	.400	11001242-1
12.76	12.77	.152330E+03	2630.00	.400	11001242-1
12.94	12.95	.120100E+03	1702.00	.400	11001242-1
13.39	13.39	.135300E+03	2955.00	.400	11001242-1
13.80	13.81	.123320E+03	641.00	.400	11001242-5
14.55	14.56	.126180E+03	1412.00	.400	11001242-6
14.73	14.74	.154720E+03	2586.00	.400	11001242-6
14.94	14.95	.133120E+03	3004.00	.400	11001242-6
15.85	15.85	.160920E+03	2406.00	.400	11001242-6
16.16	0.00	.100000E+01	790.00	792.013	
16.46	0.00	.100000E+01	335.00	334.750	
17.35	0.00	.100000E+01	216.00	215.500	
17.63	0.00	.100000E+01	446.00	446.250	
18.10	0.00	.100000E+01	822.00	822.000	
19.62	0.00	.100000E+01	535.00	535.375	
21.14	0.00	.100000E+01	405.00	404.750	
22.44	0.00	.100000E+01	510.00	510.375	
26.02-26.02		.101380E+04	2064.00	.100	4000

Total Area = 65567 Total AREA % = 7063.2137
 00025437



025438

Report: 1807 33 Channel: 0

Sample: 001240 Injected at 10:15:30 on JAN 27, 1966

Lab Method: 001240 Seq: SEQUO Subseq/Comp: 1/5 Int: 5

GC-Width: 0.500 Delay: 3.00 Min-GC: 100

Sup-Dir: 0.00 ID-Dir: 0 Ref-RID: 1.50 ZRID: 5.0 ZDID: 100.00 156

Actual run time: 65.217 minutes

Summed designated peaks

RT	W	Factor	Area	UG/H	Name
6.67	0.00	100000.00	347.00	346.750	
8.24	0.23	200000.00	1949.00	.400	1PCH1240 B
9.01	0.02	300000.00	1045.00	.400	1PCH1240 C
10.35	0.15	100000.00	4253.00	.400	1PCH1240 D
10.60	0.02	200000.00	1727.00	.400	1PCH1240 E
10.97	0.00	300000.00	1042.00	.400	1PCH1240 F
11.32	0.23	700000.00	557.00	.400	1PCH1240 G
11.76	0.14	140000.00	2709.00	.400	1PCH1240 H
11.99	0.16	170000.00	2266.00	.400	1PCH1240 I
12.16	0.13	210000.00	1845.00	.400	1PCH1240 J
12.76	0.16	110000.00	3617.00	.400	1PCH1240 K
12.94	0.14	240000.00	1663.00	.400	1PCH1240 L
13.30	0.13	100000.00	5935.00	.400	1PCH1240 M
13.81	0.03	470000.00	844.00	.400	1PCH1240 N
14.55	0.14	120000.00	2027.00	.400	1PCH1240 O
14.76	0.14	90000.00	4264.00	.400	1PCH1240 P
14.94	0.14	100000.00	4203.00	.400	1PCH1240 Q
15.33	0.00	100000.00	376.00	376.125	
15.84	0.15	100000.00	3771.00	.400	1PCH1240 R
16.15	0.15	160000.00	2402.00	.400	1PCH1240 S
16.46	0.16	300000.00	1040.00	.400	1PCH1240 T
17.34	0.00	100000.00	894.00	894.000	
17.63	0.16	200000.00	1330.00	.400	1PCH1240 U
17.80	0.00	100000.00	752.00	752.500	
18.17	0.10	160000.00	2305.00	.400	1PCH1240 V
18.82	0.00	100000.00	704.00	703.875	
19.60	0.14	220000.00	1705.00	.400	1PCH1240 W
21.12	0.12	200000.00	1343.00	.400	1PCH1240 X
22.45	0.00	100000.00	286.00	285.500	
26.43	0.00	100000.00	619.00	619.500	
26.86	0.16	500000.00	2064.00	.050	#000

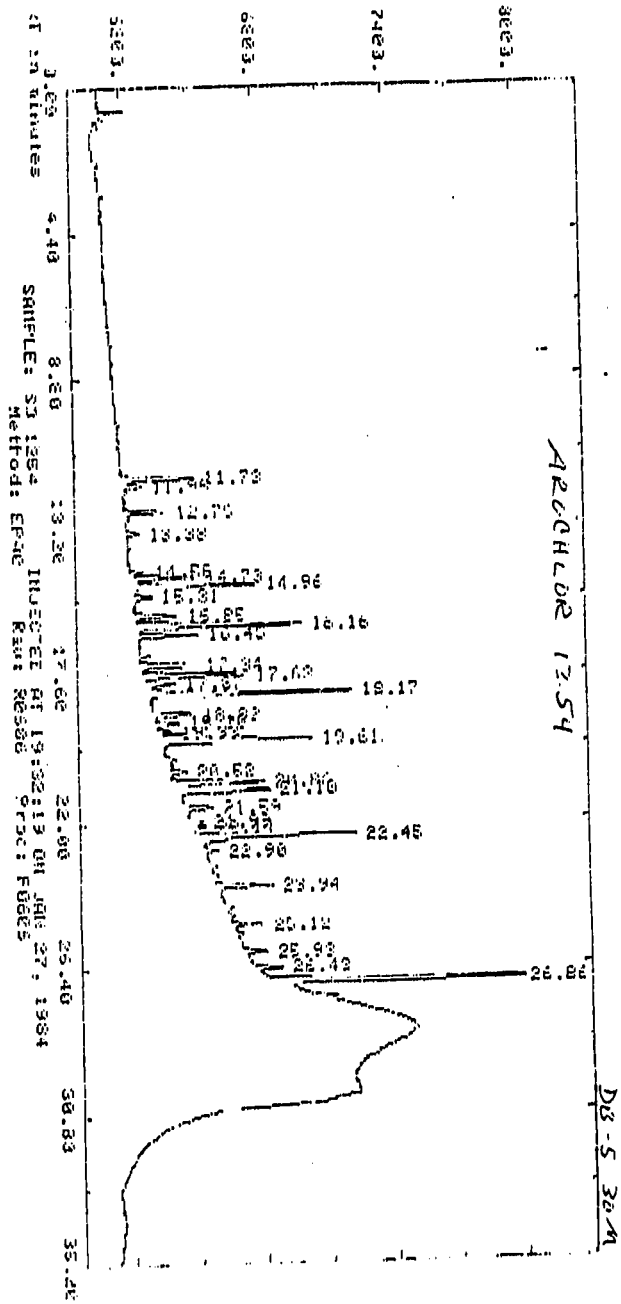
Total Area = 66255.

Total UG/H = 7064.125

Processed data file: P0605

Raw data file: R0605

025433



Report: 1000111 Channel: 0

Sample: SD 1254

Injected at 19.3217 on JUN 27, 1964

MSD Method: M01254 Seq: 01006 Subseq/Group: 1/6 R11: 6

SD-Width	MS/min	Delay	Gas Fr	Heath		
1250	300	3.00	100			
Sup-Unk	DVI	ID-101	Ref-R10	XRTW	XDVI	100
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 35.217 minutes

Summed designated peaks

Rt	Time	Factor	Area	UG/Ml	Name
11.75	11.75	140041-03	2020. BV	.300	4P001254-4
11.95	0.00	100000-003	453. VB	450.703	
12.75	12.75	202055-03	1061. BB	.300	4P001254-0
13.30	0.00	100000-003	350. BB	350.750	
14.35	0.00	100000-003	370. BV	370.413	
14.75	14.75	106081-03	1790. VV	.300	4P001254-0
14.95	14.97	101146-04	3677. VB	.300	4P001254-0
15.33	0.00	100000-003	444. BB	444.000	
15.05	15.05	125034-03	1190. BB	.300	4P001254-0
16.16	16.16	545050-04	5496. BV	.300	4P001254-1
16.45	16.46	170560-03	1759. VB	.300	4P001254-4
17.34	17.35	119051-03	1511. BB	.300	4P001254-0
17.63	17.63	771141-04	3027. BV	.300	4P001254-2
17.07	17.08	107011-03	030. VV	.300	4P001254-0
18.17	18.18	400531-04	6166. VB	.300	4P001254-1
18.07	18.08	201920-03	1064. BB	.300	4P001254-1
17.10	0.00	100000-003	555. BB	555.500	
19.33	0.00	100000-003	107. BB	106.500	
19.61	19.61	400160-04	6142. BB	.300	4P001254-0
20.57	0.00	100000-003	393. BB	392.500	
20.86	20.86	116501-03	2575. BV	.300	4P001254-0
21.10	21.11	010700-04	3700. VB	.300	4P001254-0
21.57	0.00	100000-003	644. BB	644.250	
21.97	0.00	100000-003	137. BB	136.075	
22.14	0.00	100000-003	174. BB	174.375	
22.45	22.45	547121-04	5403. BB	.300	4P001254-1
22.90	0.00	100000-003	305. BB	305.375	
23.94	23.94	107771-03	1444. BB	.300	4P001254-0
25.12	25.12	137072E-03	772. BB	.300	4P001254-0
25.93	0.00	100000-003	450. BB	450.313	
26.43	0.00	100000-003	570. BB	570.250	
26.06-26.06		1030101-03	7734. BB	.050	4P001

Total Area = 620081.

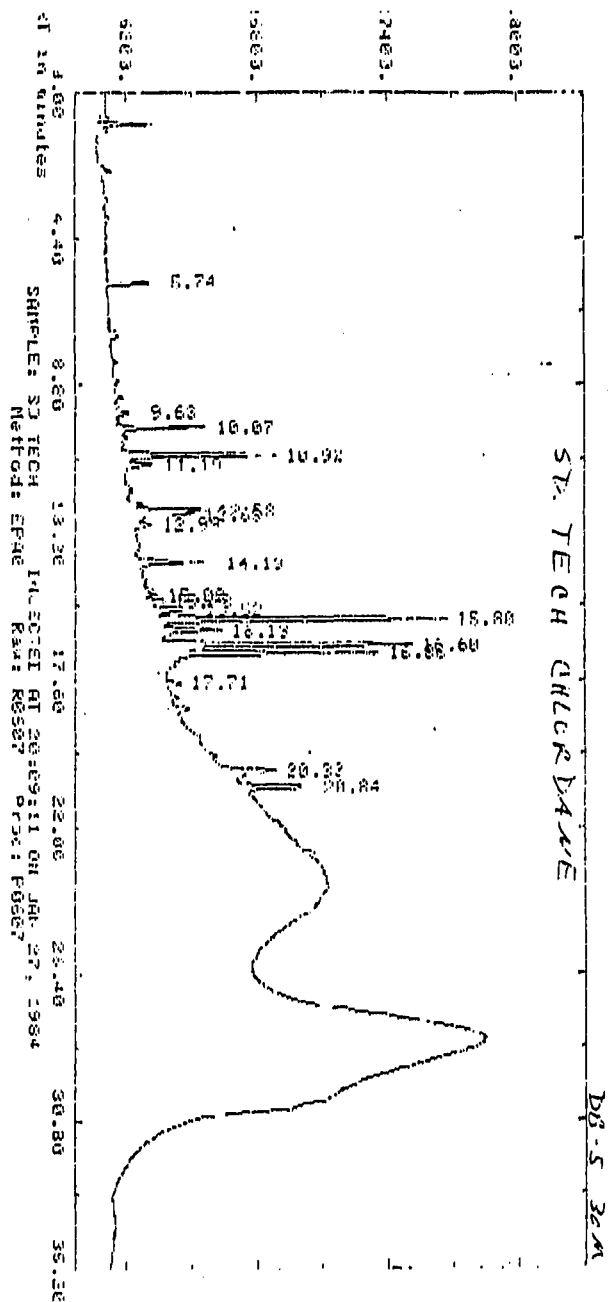
Total UG/Ml = 7734.250

Processed data file: P00006

Raw data file: R00006

003131

025441



003132

31

025442

Report: 1807.00 Channel: 0

Sample: SD TICH

Injected at 20.02:11 (01 JAN 77, 1976)

LSID Method: LPAH

Seq: SEQ06

Subsq/Samp: 127 Int: 7

Slr Width MV/min Delay Non-Ar Bunch
2500 300 3.00 100

Supr Inkr Dvt ID-Lvl Ref-RIM ZRIM ZDAD-F 150
NU 0.00 0 30 2.0 100.00 NU

Actual run time: 35.223 minutes

No reference peak found

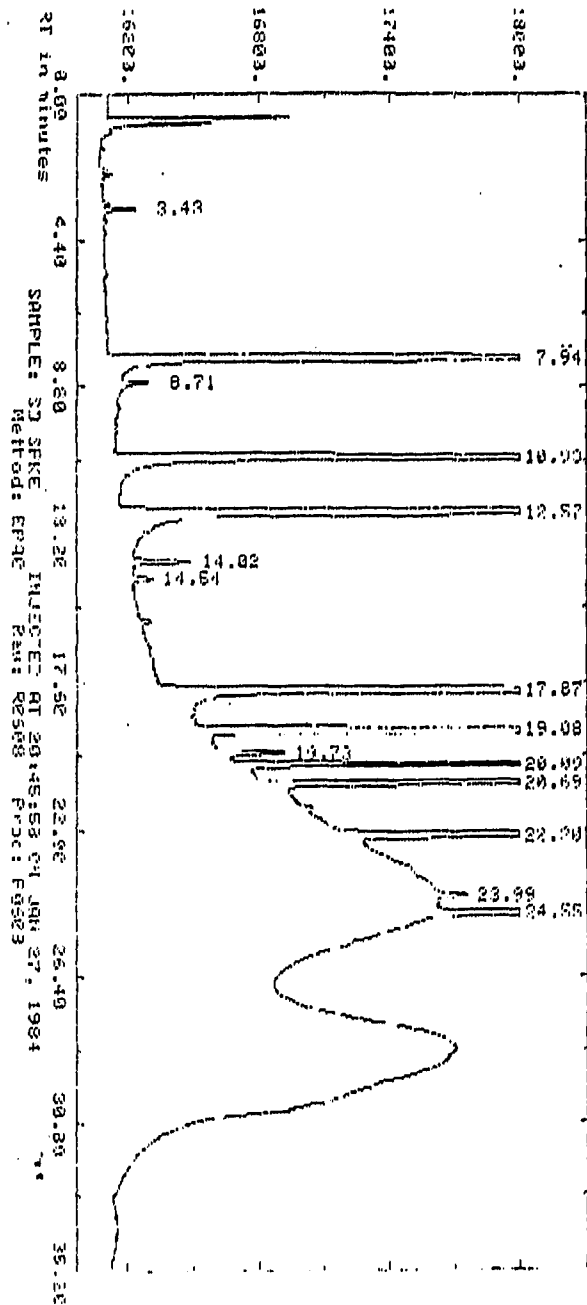
RT	ATM	Factor	Area	UGZML	Range
9.78	0.00	.10000E+01	1022. BH	2.278	
9.78	0.00	.10000E+00	230. BH	.551	
10.07	0.00	.10000E+01	2426. BH	5.405	
10.92	0.00	.10000E+00	4036. BV	10.774	
11.19	0.00	.10000E+01	877. VB	1.958	
12.58	0.00	.10000E+00	1796. BV	4.001	
12.60	0.00	.10000E+00	1355. VB	3.019	
12.99	0.00	.10000E+00	410. BH	.930	
14.13	0.00	.10000E+00	2060. BB	6.388	
15.09	0.00	.10000E+00	223. BH	.492	
15.20	0.00	.10000E+00	487. BB	1.004	
15.52	0.00	.10000E+00	1193. BV	2.657	
15.80	0.00	.10000E+00	8306. VB	18.684	
16.13	0.00	.10000E+00	1699. BH	3.705	
16.80	0.00	.10000E+00	7566. BV	16.856	
16.86	0.00	.10000E+00	6269. VB	14.011	
17.71	0.00	.10000E+00	412. BH	.933	
20.23	0.00	.10000E+00	759. BH	1.691	
20.08	0.00	.10000E+00	2031. BH	4.524	

Total Area = 44007.

Total UGZML = 2030.875

Processed data file: P0607

Raw data file: R0607



003134

025444

Report: 1810.00 Channel: 0

Sample: SD SPKL

Injected at 20:45:50 ON JAN 27, 1984

STD Method: EPA0

Seq: SEW06

Subsq/5amp: 1/ 11

RTA: 0

Sl-Width	MV/Min	Delay	Min: Ar	Bunch
.250	.300	3.00	100	

Sup: Unk	Dvt	ID-1 v1	Ref: RTW	%RTW	2011: 1	150
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 35.217 minutes

No reference peak found

RT	JTM	Factor	Area	UG/ML	Name
5.43	0.00	.100000E+01	069. BB	.126	
7.94	0.00	.100000E+01	118874. BB	17.190	
8.71	0.00	.100000E+01	650. BB	.097	
10.96	0.00	.100000E+01	112082. BB	16.199	
12.57	0.00	.100000E+01	120290. BB	18.533	
14.02	0.00	.100000E+01	1764. BB	.255	
14.54	0.00	.100000E+01	535. BB	.077	
17.87	0.00	.100000E+01	120364. BB	18.562	
17.88	0.00	.100000E+01	72605. BB	10.499	
18.73	0.00	.100000E+01	1699. BB	.246	
20.07	0.00	.100000E+01	17511. BB	2.532	
20.69	0.00	.100000E+01	15793. BB	2.204	
22.20	0.00	.100000E+01	65917. BB	9.532	
23.99	0.00	.100000E+01	1023. BB	.140	
24.54	0.00	.100000E+01	25587. BB	3.700	
Total Area =		691532.	Total UG/ML =		255881.075

Processed data file: PR000

Raw data file: R0000

003135

025445

SCANNER NAME - DEMCO
 CHANNEL # 0
 INSTRUMENT # 07
 TYPE(S) OF ANALYSIS PEST

DATE STARTED _____
 DATE FINISHED _____

2333

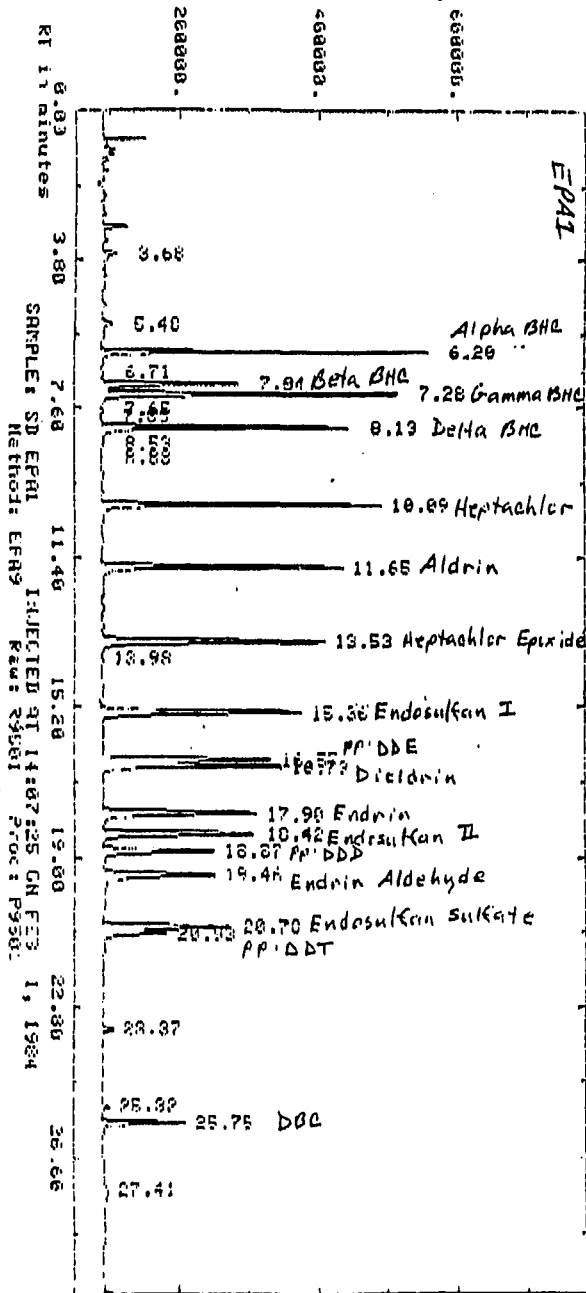
SAMPLE NAME	#	CASE NUMBER	EPA NUMBER	INJECTION TIME
SD EPA1	01			16:28:17 ON JAN 27, 1984
SD ARMX	02			17:05:05 ON JAN 27, 1984
SD TOXA	03			17:41:54 ON JAN 27, 1984
SD 1242	04			18:18:43 ON JAN 27, 1984
SD 1248	05			18:55:31 ON JAN 27, 1984
SD 1254	06			19:32:19 ON JAN 27, 1984
SD TECH	07			20:09:11 ON JAN 27, 1984
SD SPKE	08			20:45:58 ON JAN 27, 1984
SD MD	09			21:22:45 ON JAN 27, 1984
✓ PP 19224	10	BLANK		21:59:32 ON JAN 27, 1984
✓ PP 19311	11	2333	RB	22:36:21 ON JAN 27, 1984
✓ PP 19357	12		BLANK	23:13:11 ON JAN 27, 1984
✓ PP 19358	13		BLANK	23:50:01 ON JAN 27, 1984
✓ PP 19143	14	2360	Blank	0:26:51 ON JAN 28, 1984
✓ PP 19298	15		BS	1:03:41 ON JAN 28, 1984
✓ PP 19119	16	2360	SS	1:40:31 ON JAN 28, 1984
✓ PP 19120	17	2360	SS	2:17:23 ON JAN 28, 1984
SD MD	18			2:54:14 ON JAN 28, 1984
SD EPA4	19			3:31:01 ON JAN 28, 1984
✓ PP 19270	20	C42333	R3700	4:07:50 ON JAN 28, 1984
✓ PP 18950	21		Commercial	4:44:40 ON JAN 28, 1984
✓ PP 18949	22			5:21:30 ON JAN 28, 1984
✓ PP 18957	23		Commercial	5:58:22 ON JAN 28, 1984
✓ PP 18958	24		Commercial	6:35:15 ON JAN 28, 1984
✓ PP 18638R	25	C42348	C4830	7:12:07 ON JAN 28, 1984
✓ PP 18808R	26	C42346	C3651	7:48:58 ON JAN 28, 1984
✓ PP 18810R	27	C42346	C3686	8:25:48 ON JAN 28, 1984
SD MD	28			9:02:38 ON JAN 28, 1984
SD EPA1	29			9:39:25 ON JAN 28, 1984
✓ PP 19114	30	C42360	C4262	10:16:13 ON JAN 28, 1984
✓ PP 19121	31	C42360	C4263	10:53:02 ON JAN 28, 1984
✓ PP 19122	32	C42360	C4267	11:29:51 ON JAN 28, 1984
✓ PP 19123	33	C42360	C4269	12:06:42 ON JAN 28, 1984
✓ PP 19124	34	C42360	C4272	12:43:32 ON JAN 28, 1984

SEQUENCE NAME - SEQ06
CHANNEL # 0
INSTRUMENT # 07
TYPE(S) OF ANALYSIS PEST

CALIB. STD LOT FPA1
DATE STARTED
DATE FINISHED

L.U. REF 15

SAMPLE NAME	BA	CASE NUMBER	EPA NUMBER	INJECTION TIME
PP 19209	35			13:20:21 ON JAN 28, 1984
PP 19210	36		Commercial	14:57:13 ON JAN 28, 1984
PP 19297 <i>refuse</i>	37		Duplicate	14:34:04 ON JAN 28, 1984
SD HR	38			15:10:55 ON JAN 28, 1984
<i>M. J. 2/1/84</i>				



003138

31

025448

Report: 7156.00 Channel: 9

Sample: SD LPA3

Injected at 14:07:25 (N FID) 1, 1986

ESID Method: EPAY

Seq: 31075

Subseq/Samp. 1/1 B11: 1

SI width	MV/min	Delay	Min. AC	Bunch		
250	3.000	3.00	32757			
Sup. Hk	Det	ID: FID	Ref: R10	ZRTM	ZRTM F	156
NO	0.00	0	1.30	5.0	100.00	NO

Actual run time: 30.023 minutes

Ended not on baseline

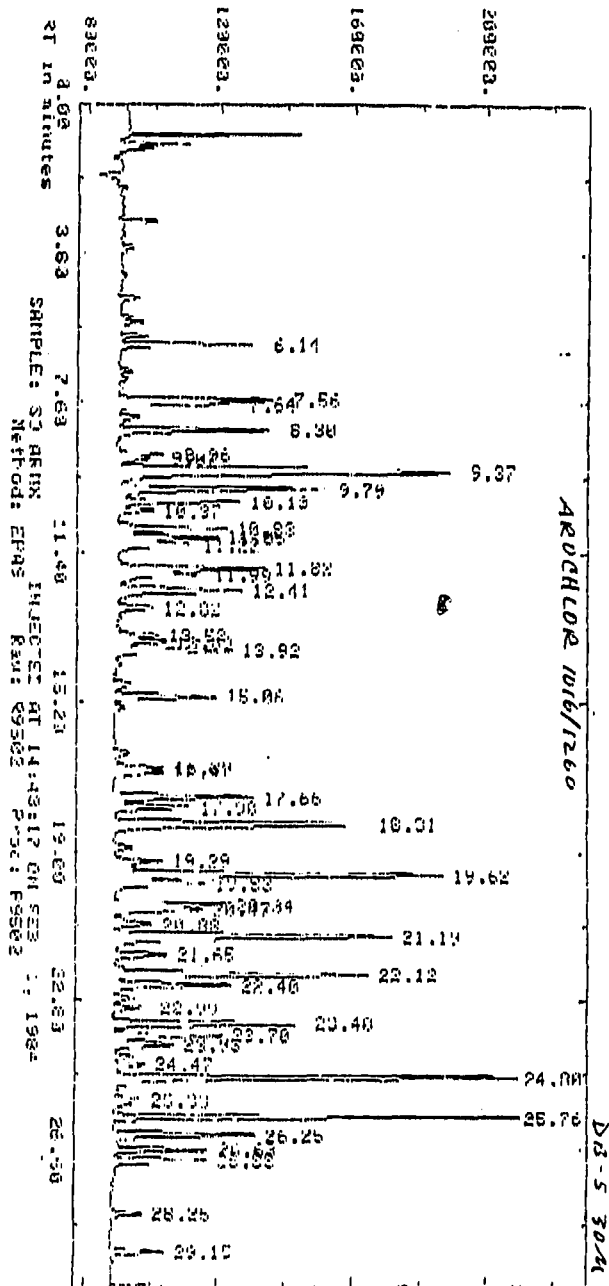
RI	11M	Factor	Area	AREA %	Name
5.60	0.00	1.0000E+01	139333.	0.0	139333.000
5.40	0.00	1.0000E+01	96200.	0.0	96200.000
6.20	0.00	1.0000E+01	1908076.	0.0	1908076.000
6.73	0.00	1.0000E+01	8771.	0.0	8771.000
7.04	0.00	1.0000E+01	1101567.	0.0	1101567.000
7.20	0.00	1.0000E+01	2040677.	0.0	2040677.000
7.65	0.00	1.0000E+01	3542.	0.0	3542.250
7.85	0.00	1.0000E+01	2035.	0.0	2035.150
8.13	0.00	1.0000E+01	1918757.	0.0	1918757.500
8.33	0.00	1.0000E+01	16637.	0.0	16637.250
8.80	0.00	1.0000E+01	3407.	0.0	3407.750
10.07	0.00	1.0000E+01	2230774.	0.0	2230774.500
11.65	0.00	1.0000E+01	2026572.	0.0	2026572.000
13.35	0.00	1.0000E+01	2000968.	0.0	2000968.500
13.70	0.00	1.0000E+01	1674.	0.0	1674.000
14.66	0.00	1.0000E+01	1709780.	0.0	1709780.500
16.57	0.00	1.0000E+01	1540561.	0.0	1540561.500
16.73	0.00	1.0000E+01	1700254.	0.0	1700254.700
17.20	0.00	1.0000E+01	1531244.	0.0	1531244.000
18.46	0.00	1.0000E+01	1532501.	0.0	1532501.500
18.87	0.00	1.0000E+01	1066007.	0.0	1066007.500
19.46	0.00	1.0000E+01	1734277.	0.0	1734277.000
20.20	0.00	1.0000E+01	1242446.	0.0	1242446.000
20.73	0.00	1.0000E+01	560054.	0.0	560054.000
23.37	0.00	1.0000E+01	87170.	0.0	87170.500
23.66	25.32	1.0000E+01	53130.	0.0	53130.000
25.75	0.00	1.0000E+01	654787.	0.0	654787.000
27.43	0.00	1.0000E+01	145926.	0.0	145926.000

Total Area = 22077657

Total AREA % = 100.000

Processed data File: PYS02

Raw data File: RY003



Report: 7157.00 Channel: 9

Sample: SD ARMX

Injected at 14:43:17 on 11/13/1988

LSID Method: EPAY

Seq: BEQ75

Subsq/ Samp: 17/2 R11: 2

SI Width: 250

MV/Min: 3.000

Delay: 3.00

Min AB: 32767

Runch

Supr-Unk: NO

DVI: 0.00

ID-Lvl: 0

Rep-RTW: 30

ZRTM: 5.0

ZDST: 100.00

15.0: NO

Actual run time: 30.017 minutes

Ended not on baseline

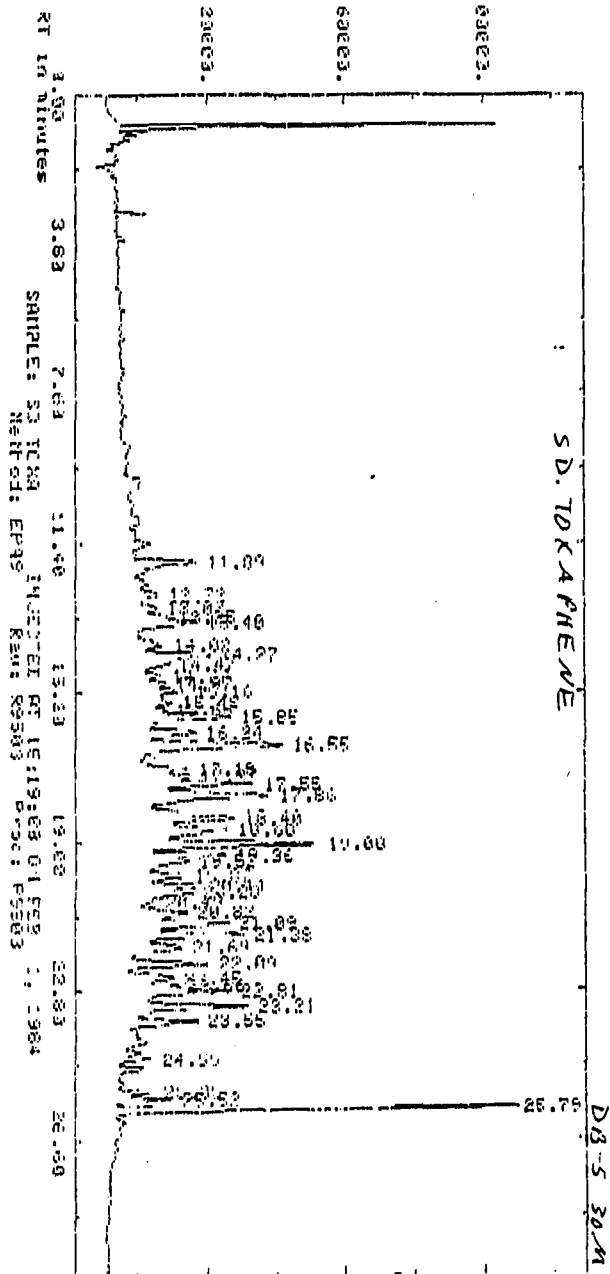
Rt	11M	Factor	Area	Area %	Name
6.34	0.00	1.00000101	215114.000	0.00	215114.000
7.56	0.00	1.00000101	238730.000	0.00	238730.000
7.64	0.00	1.00000101	104845.000	0.00	104845.000
8.36	0.00	1.00000101	203045.000	0.00	203045.000
8.76	0.00	1.00000101	00174.000	0.00	00174.000
9.07	0.00	1.00000101	63723.000	0.00	63723.000
9.77	0.00	1.00000101	752075.000	0.00	752075.000
9.77	0.00	1.00000101	412633.000	0.00	412633.000
10.13	0.00	1.00000101	271231.000	0.00	271231.000
10.37	0.00	1.00000101	00104.000	0.00	00104.000
10.63	0.00	1.00000101	250727.000	0.00	250727.000
11.03	0.00	1.00000101	200430.000	0.00	200430.000
11.27	0.00	1.00000101	204240.000	0.00	204240.000
11.35	0.00	1.00000101	073046.000	0.00	073046.000
11.77	0.00	1.00000101	230045.000	0.00	230045.000
12.43	0.00	1.00000101	355203.000	0.00	355203.000
12.67	0.00	1.00000101	00470.000	0.00	00470.000
13.57	0.00	1.00000101	100373.000	0.00	100373.000
13.67	0.00	1.00000101	116705.000	0.00	116705.000
13.92	0.00	1.00000101	273514.000	0.00	273514.000
13.96	0.00	1.00000101	234276.000	0.00	234276.000
14.07	0.00	1.00000101	07970.000	0.00	07970.000
17.03	0.00	1.00000101	107545.000	0.00	107545.000
17.66	0.00	1.00000101	304713.000	0.00	304713.000
17.70	0.00	1.00000101	173700.000	0.00	173700.000
18.33	0.00	1.00000101	634036.000	0.00	634036.000
19.77	0.00	1.00000101	101022.000	0.00	101022.000
19.82	0.00	1.00000101	730000.000	0.00	730000.000
19.83	0.00	1.00000101	202405.000	0.00	202405.000
20.34	0.00	1.00000101	234423.000	0.00	234423.000
20.47	0.00	1.00000101	183740.000	0.00	183740.000
20.80	0.00	1.00000101	103949.000	0.00	103949.000
21.17	0.00	1.00000101	711537.000	0.00	711537.000
21.65	0.00	1.00000101	111565.000	0.00	111565.000
22.17	0.00	1.00000101	543525.000	0.00	543525.000
22.40	0.00	1.00000101	235024.000	0.00	235024.000
22.77	0.00	1.00000101	70070.000	0.00	70070.000
23.40	0.00	1.00000101	362730.000	0.00	362730.000
23.70	0.00	1.00000101	206610.000	0.00	206610.000
23.93	0.00	1.00000101	152059.000	0.00	152059.000
24.47	0.00	1.00000101	55551.000	0.00	55551.000
24.80	0.00	1.00000101	760004.000	0.00	760004.000
25.33	25.33	1.00000101	50744.000	0.00	50744.000
25.76	0.00	1.00000101	699307.000	0.00	699307.000
26.25	0.00	1.00000101	267670.000	0.00	267670.000
26.63	0.00	1.00000101	156609.000	0.00	156609.000
26.80	0.00	1.00000101	175104.000	0.00	175104.000
28.25	0.00	1.00000101	56277.000	0.00	56277.000
29.15	0.00	1.00000101	93976.000	0.00	93976.000

Total Area = 12730546.

Total Area % = 73976.000

Processed data file: P9500

Raw data file: R9500



31

003142
025452

Report: 7150.00 Channel: 7

Sample: 3D TUXA

Injected at 15.19:00 ON 11/11/78

EXTD Method: EPAP

Seq: 88955

Subseq/Samp: 17.3 R11: 3

SI-width MV/Min Delay

Min Ar 32762

Bunch

Supr Link NO

Det 0.00

ID-101 0

Ref R10 30

ZR10 5.0

Z010 100.00

150 NO

Actual run time: 30.013 minutes

Ended not on baseline

RI	11M	Factor	Area	AREA X	Name
11.07	0.00	1.0000E+03	173091.00	173091.500	
12.77	0.00	1.0000E+03	163772.00	163772.750	
13.02	0.00	1.0000E+03	59498.00	59498.500	
13.25	0.00	1.0000E+03	54393.00	54393.500	
13.40	0.00	1.0000E+03	207406.00	207406.500	
14.02	0.00	1.0000E+03	87845.00	87845.500	
14.22	0.00	1.0000E+03	242336.00	242336.000	
14.42	0.00	1.0000E+03	68337.00	68337.250	
14.72	0.00	1.0000E+03	67555.00	67555.500	
14.92	0.00	1.0000E+03	71875.00	71875.750	
15.15	0.00	1.0000E+03	144010.00	144010.500	
15.40	0.00	1.0000E+03	90700.00	90700.750	
15.75	0.00	1.0000E+03	54691.00	54691.250	
15.85	0.00	1.0000E+03	207664.00	207664.250	
16.24	0.00	1.0000E+03	178414.00	178413.750	
16.55	0.00	1.0000E+03	515427.00	515427.500	
17.10	0.00	1.0000E+03	179270.00	179270.500	
17.37	0.00	1.0000E+03	147202.00	147202.620	
17.55	0.00	1.0000E+03	310607.00	310607.000	
17.86	0.00	1.0000E+03	557112.00	557112.000	
18.40	0.00	1.0000E+03	386102.00	386102.500	
18.60	0.00	1.0000E+03	421363.00	421363.500	
19.00	0.00	1.0000E+03	606201.00	606201.000	
19.36	0.00	1.0000E+03	270461.00	270461.250	
19.57	0.00	1.0000E+03	188577.00	188578.750	
19.87	0.00	1.0000E+03	151027.00	151027.000	
20.11	0.00	1.0000E+03	171575.00	171575.250	
20.20	0.00	1.0000E+03	183627.00	183627.250	
20.42	0.00	1.0000E+03	56220.00	56220.375	
20.62	0.00	1.0000E+03	262207.00	262207.000	
21.02	0.00	1.0000E+03	303204.00	303204.250	
21.30	0.00	1.0000E+03	316409.00	316409.250	
21.62	0.00	1.0000E+03	188831.00	188832.750	
22.09	0.00	1.0000E+03	189537.00	189537.000	
22.45	0.00	1.0000E+03	149754.00	149754.000	
22.66	0.00	1.0000E+03	84456.00	84456.000	
22.81	0.00	1.0000E+03	311717.00	311717.250	
23.23	0.00	1.0000E+03	315503.00	315503.500	
23.51	0.00	1.0000E+03	155621.00	155621.500	
24.15	0.00	1.0000E+03	54773.00	54773.250	
25.35	0.00	1.0000E+03	66009.00	66009.000	
25.52-25.52	0.00	1.1000E+03	100594.00	112 4000	
25.72	0.00	1.0000E+03	682542.00	682542.000	

Total Area = 9110066

Total AREA X = 682542.000

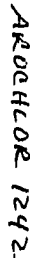
Processed data file: PVS03

Raw data file: RVS03

003143

31

025453



Dir. 5, 30m

Report: 7159.00 Channel: 9

Sample: SD 124P

Injected at 11:54:59 ON 11R 1, 1984

ESD Method: EPA9

Seq. SEQ75

Subseq/Comp: 1 / 4

Hit: 4

SI-Width
250

MV/Min
3.000

Delay
3.00

Min. Ar
62767

Bunch

Sup. Wk
NO

DVI
0.00

ID-Val
0

Ref. K1W
30

ZK1W
5 0

ZK1F-T
100.00

150
RD

Actual run time: 30.013 minutes

Ended not on baseline

RI	IM	Factor	Area	AREA %	Name
5.24	0.00	1.00000E+01	56230.00	56230.500	
6.15	0.00	1.00000E+01	202234.00	202234.000	
7.57	0.00	1.00000E+01	297542.00	297542.250	
7.65	0.00	1.00000E+01	224716.00	224716.250	
7.91	0.00	1.00000E+01	53322.00	53322.000	
8.33	0.00	1.00000E+01	349654.00	349654.000	
8.77	0.00	1.00000E+01	74654.00	74654.500	
9.09	0.00	1.00000E+01	70748.00	70748.625	
9.39	0.00	1.00000E+01	110745.00	110745.500	
9.83	0.00	1.00000E+01	471605.00	471605.250	
10.15	0.00	1.00000E+01	295006.00	295006.750	
10.30	0.00	1.00000E+01	105924.00	105924.250	
10.85	0.00	1.00000E+01	261897.00	261897.000	
11.06	0.00	1.00000E+01	233934.00	233934.250	
11.24	0.00	1.00000E+01	216651.00	216651.500	
11.86	0.00	1.00000E+01	315145.00	315145.000	
12.07	0.00	1.00000E+01	249096.00	249096.750	
12.43	0.00	1.00000E+01	363650.00	363650.500	
12.84	0.00	1.00000E+01	82592.00	82592.250	
13.54	0.00	1.00000E+01	214274.00	214274.250	
13.72	0.00	1.00000E+01	330010.00	330010.750	
13.92	0.00	1.00000E+01	390482.00	390482.000	
14.00	0.00	1.00000E+01	271432.00	271432.750	
15.02	0.00	1.00000E+01	106486.00	106486.500	
16.52	0.00	1.00000E+01	65202.00	65202.250	
17.05	0.00	1.00000E+01	101322.00	101322.000	
18.44	0.00	1.00000E+01	71325.00	71325.500	
25.35	25.35	1.10966E+05	50670.00	50670.005	4.000
25.79	0.00	1.00000E+01	725602.00	725602.000	

Total Area = 7451239.

Total AREA % = 726602.000

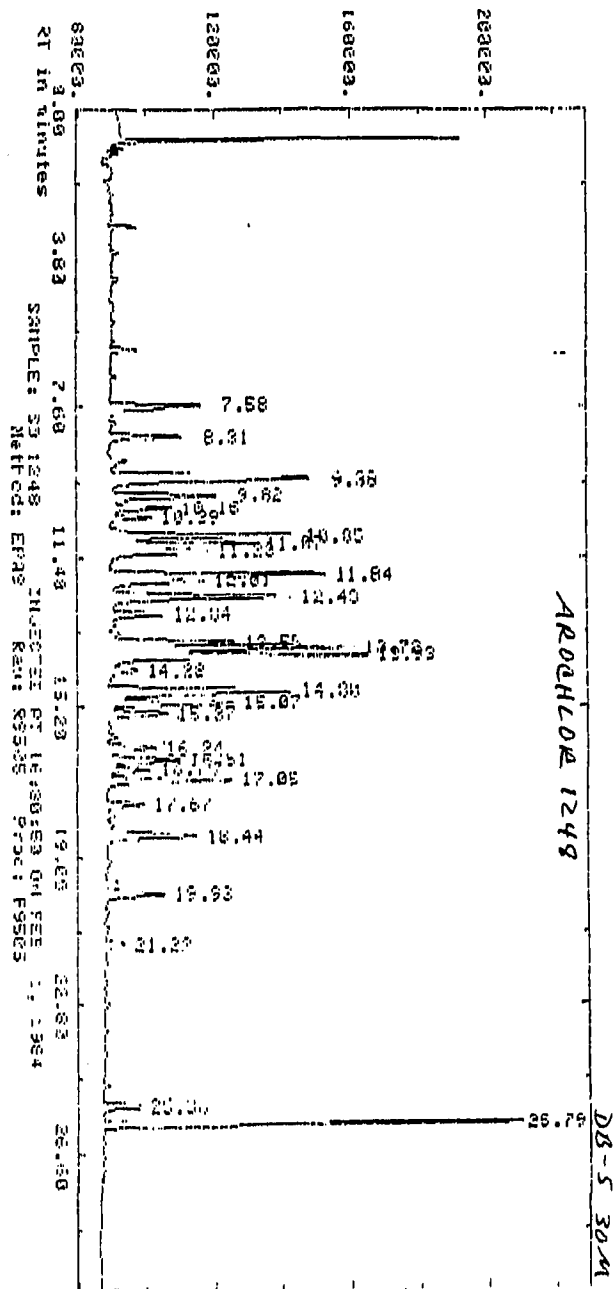
Processed data FILE: P9504

Raw data FILE: R9504

025455

31

003145



025458

000146

Report: 7160.00 Channel: 9

Sample: SD 124H

Injected at 16:30:50 ON 11/11/84

ESID Method: EPAV

Seq. SERVS

Subsq/samp: 17.5

RI: 5

SI-width MV/Min Delay Min-Ar Bunch

250

3.000

3.00

32767

Bunch

Sup-Unk
NO

DVI
0.00

1D-1V
0

Ref-RTW
30

ZRIW
5.0

ZRI-T
100.00

ISO
NO

Actual run time: 30.000 minutes

Ended not on baseline

RT	ATM	Factor	Area	AREA %	NAME
7.50	0.00	.10000E+01	202096.	BV	202096.500
8.53	0.00	.10000E+01	120155.	BV	120155.000
9.30	0.00	.10000E+01	587348.	UV	587348.000
9.82	0.00	.10000E+01	230453.	UV	230453.500
10.15	0.00	.10000E+01	139224.	UV	139224.000
10.59	0.00	.10000E+01	79446.	UV	79446.750
10.85	0.00	.10000E+01	385548.	UV	385548.000
11.07	0.00	.10000E+01	275303.	UV	275303.070
11.73	0.00	.10000E+01	245243.	UV	245243.500
11.84	0.00	.10000E+01	427766.	BV	427766.500
12.01	0.00	.10000E+01	217122.	UV	217122.500
12.43	0.00	.10000E+01	474567.	UV	474567.500
12.84	0.00	.10000E+01	101565.	UV	101564.750
13.55	0.00	.10000E+01	258430.	UV	258430.000
13.72	0.00	.10000E+01	555351.	UV	555351.500
13.93	0.00	.10000E+01	655505.	UV	655505.750
14.20	0.00	.10000E+01	73029.	UV	73029.000
14.80	0.00	.10000E+01	444776.	UV	444776.250
15.07	0.00	.10000E+01	303707.	UV	303707.250
15.32	0.00	.10000E+01	133110.	UV	133110.500
16.24	0.00	.10000E+01	108067.	UV	108067.000
16.51	0.00	.10000E+01	165009.	UV	165009.000
16.75	0.00	.10000E+01	77226.	UV	77226.500
17.05	0.00	.10000E+01	293561.	UV	293561.500
17.67	0.00	.10000E+01	79426.	BV	79426.000
18.44	0.00	.10000E+01	237370.	UV	237370.000
19.73	0.00	.10000E+01	143209.	UV	143209.500
23.22	0.00	.10000E+01	52755.	BV	52755.000
25.56	25.56	.10000E+01	63611.	BV	63611.071
25.79	0.00	.10000E+01	690332.	UV	690332.000

Total Area = 7047701.

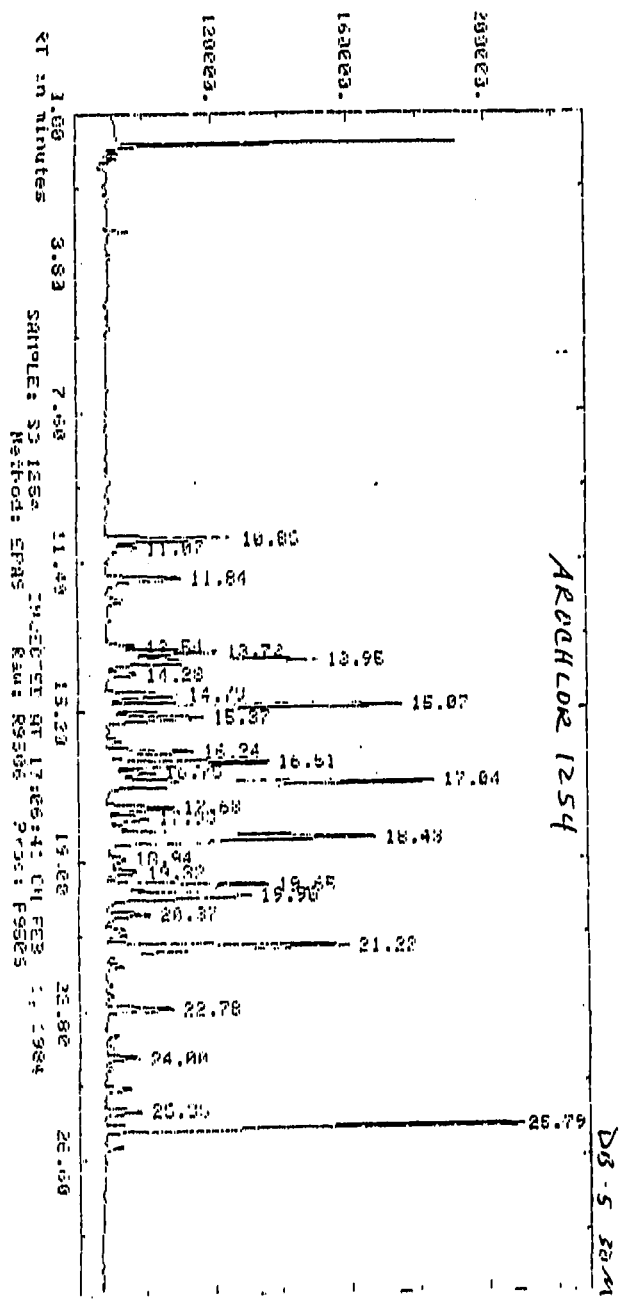
Total AREA % = 690332.000

Processed data file: P9505

Raw data file: R9505

025457

003147



SAMPLE: S3 1254

Method: EPAS

Raw: R0306

Proc: P9505

003148

025458

Report: 7161.00 Channel: 9

Sample: SD 1254

Injected at 17:06:43 ON FID 1, 1984

ESTD Method: LPA2 Seq: SEQ25 Subseq/loop: 17 6 R1: 6

SI width MV/min Delay Min Air Bunch
1250 3.000 3.00 32762

Sup. Ink Det ID: 101 Rep: N1W %R1M %D11 F 15.0
NO 0.00 0 30 5 0 100.00 00

Actual run time: 30.004 minutes

Ended not on baseline

R1	Time	Factor	Area	AREA %	Name
10.05	0.00	1.00000101	245400.	BB 245400.500	
11.02	0.00	1.00000101	706552.	BB 706552.000	
11.84	0.00	1.00000101	173342.	BB 173342.500	
14.54	0.00	1.00000101	64236.	BB 64236.000	
15.72	0.00	1.00000101	247561.	BB 247561.500	
16.95	0.00	1.00000101	474599.	BB 474599.500	
18.28	0.00	1.00000101	70555.	BB 70555.000	
18.79	0.00	1.00000101	157350.	BB 157350.500	
19.02	0.00	1.00000101	882077.	BB 882077.750	
19.37	0.00	1.00000101	223049.	BB 223049.250	
19.24	0.00	1.00000101	172406.	BB 172406.500	
19.51	0.00	1.00000101	370730.	BB 370730.500	
19.75	0.00	1.00000101	108130.	BB 108130.250	
19.04	0.00	1.00000101	705073.	BB 705073.000	
19.58	0.00	1.00000101	140290.	BB 140290.000	
19.93	0.00	1.00000101	103300.	BB 103300.250	
19.45	0.00	1.00000101	863278.	BB 863278.500	
19.94	0.00	1.00000101	62270.	BB 62270.500	
19.32	0.00	1.00000201	75630.	BB 75632.750	
19.65	0.00	1.00000101	350048.	BB 350048.250	
19.90	0.00	1.00000101	435307.	BB 435307.000	
20.37	0.00	1.00000101	107337.	BB 107337.500	
21.28	0.00	1.00000101	627045.	BB 627045.000	
22.78	0.00	1.00000101	139548.	BB 139548.000	
24.00	0.00	1.00000101	72019.	BB 72019.250	
25.35	25.35	1.00000101	62752.	BB 62752.000	*0000
25.79	0.00	1.00000101	677552.	BB 677552.500	

Total Area = 7682167

Total AREA % = 699532.500

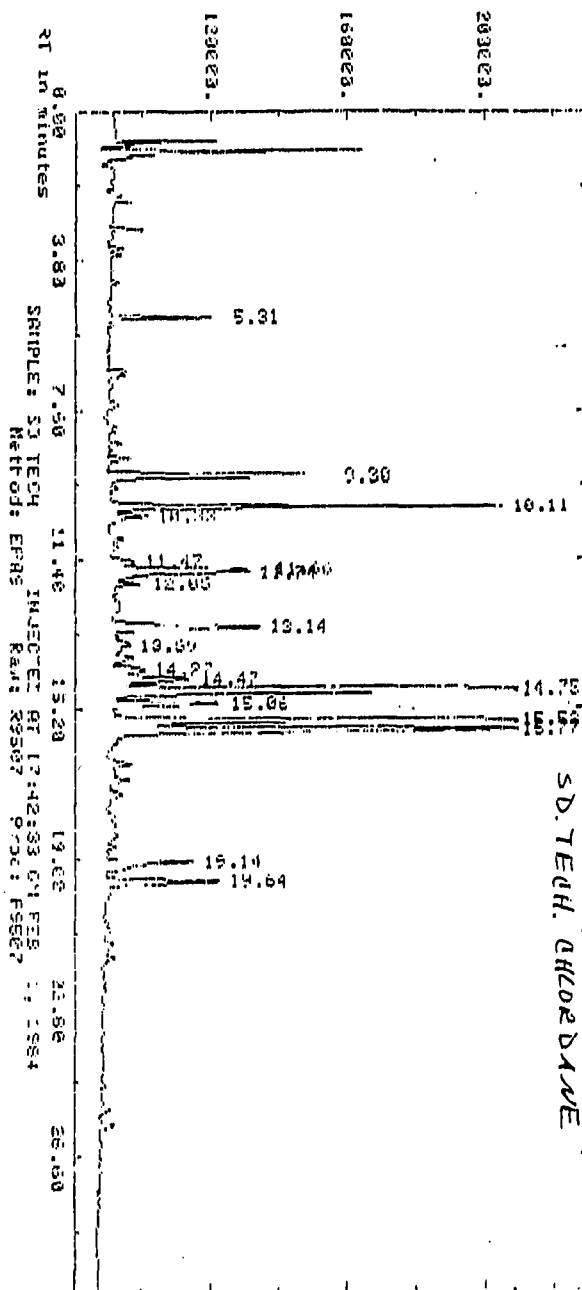
Processed data file: P9506

Raw data file: R9506

003143

31

025459



003150

31

025460

Report: 7162.00 Channel: 9

Sample: SD TLCH

Injected at 17:42:33 ON LTR 1, 1984

ES/D Method: EPA9

Seq: SEW95

Subsq/Samp: 17 7

Rtl: 7

SI-width MV/min Delay

250

3.000

3.00

Man-Ar: 32767

Runch

Sup-Unk NO

Dvl 0.00

1D-1VJ 0

Ref-RTW .30

ZRTM 5.0

ZD31-4 100.00

150 NO

Actual run time: 40.004 minutes

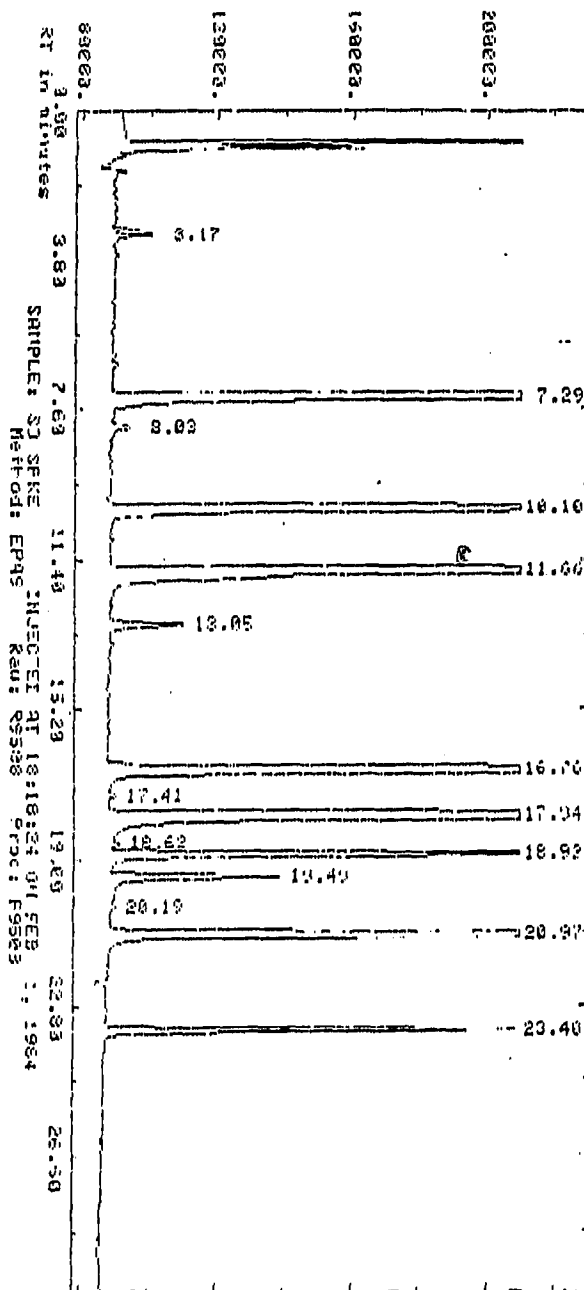
Ended not on baseline
No reference peak found

RT	ITM	Factor	Area	AREA %	Name
5.31	0.00	.10000E+01	123271.00	1.923	
9.30	0.00	.10000E+01	348173.00	5.430	
10.11	0.00	.10000E+01	687771.00	10.719	
10.33	0.00	.10000E+01	99914.00	1.556	
11.47	0.00	.10000E+01	59143.00	.922	
11.66	0.00	.10000E+01	249347.00	3.808	
11.74	0.00	.10000E+01	264888.00	4.130	
12.05	0.00	.10000E+01	62358.00	.973	
13.14	0.00	.10000E+01	352521.00	5.498	
13.59	0.00	.10000E+01	93149.00	1.453	
14.27	0.00	.10000E+01	105527.00	1.647	
14.47	0.00	.10000E+01	204139.00	3.190	
14.75	0.00	.10000E+01	1130102.00	17.626	
15.06	0.00	.10000E+01	241530.00	3.767	
15.57	0.00	.10000E+01	1033874.00	16.113	
15.77	0.00	.10000E+01	890965.00	13.805	
15.14	0.00	.10000E+01	220510.00	3.564	
15.64	0.00	.10000E+01	230019.00	3.712	
Total Area = 6421502.			Total AREA % = 230019.750		
Processed data file: P9507			Raw data file: R9507		

003151

31

025461



Report: 7166.00 Channel: 9

Sample: 50 SPK1. Injected at 10:10:24 ON 11/11/74
 ESTD Method: LPAV Seq: 514925 Subseq/Samp: 1/3 RT: 8
 SS-width MV/Min Delay Nan Ar Bunch
 .250 3.000 3.00 32757
 Sup-thrk DVI 1D-1V1 Ref-R1W %R1W ZD11 T 150
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 30.017 minutes

Ended not on baseline
 No reference peak found

RT	116	Factor	Area	AREA %	Name
3.47	0.00	.10000E+01	58330. RV	.075	
7.89	0.00	.10000E+01	1350305.0. RS	17.534	
8.03	0.00	.10000E+01	46216. RS	.060	
10.10	0.00	.10000E+01	0. RS	0.000	
10.10	0.00	.10000E+01	10030000. RS	23.274	
11.66	0.00	.10000E+01	13683074. RS	17.910	
13.05	0.00	.10000E+01	157113. RS	.203	
16.76	0.00	.10000E+01	12751432. RS	16.460	
17.41	0.00	.10000E+01	10705. RS	.025	
17.94	0.00	.10000E+01	10470410. RS	13.586	
18.62	0.00	.10000E+01	35276. RS	.046	
18.92	0.00	.10000E+01	1202500. RS	1.552	
19.47	0.00	.10000E+01	442741. RS	.572	
20.19	0.00	.10000E+01	24677. RS	.031	
20.77	0.00	.10000E+01	6020032. RS	7.781	
23.40	0.00	.10000E+01	730305. RS	.943	
Total Area = 77344192			Total AREA % = 740305.000		
Processed data file: P9500			Raw data file: R9500		

003153

31

025463

SEQUENCE RUN LOG - GC/QA

FEB 2, 1984

3:12 PM

PAGE 1

SEQUENCE NAME - 66095

CALIB. STD LOT EPA1

1.11 REF 17

CHANNEL # 9

DATE STARTED

INSTRUMENT # 01

DATE FINISHED

T (S) OF ANALYSIS PEST

SAMPLE NAME	BA	CASE NUMBER	EPA NUMBER	INJECTION TIME
SD EPA1	01			14:07:25 ON FEB 1, 1984
SD ARMX	02			14:43:17 ON FEB 1, 1984
SD TOXA	03			15:19:08 ON FEB 1, 1984
SD 1242	04			15:54:59 ON FEB 1, 1984
SD 1248	05			16:30:50 ON FEB 1, 1984
SD 1254	06			17:06:41 ON FEB 1, 1984
SD TECH	07			17:42:33 ON FEB 1, 1984
SD SPKE	08			18:18:24 ON FEB 1, 1984
SD MD	09			18:54:15 ON FEB 1, 1984
PP 19450 <i>deprp</i>	10	2330	Blank	19:30:07 ON FEB 1, 1984
PP 19317 <i>confirm</i>	11		BLANK	20:05:57 ON FEB 1, 1984
PP 19269 <i>confirm</i>	12	C#2333	R3698	20:41:48 ON FEB 1, 1984
✓ PP 19268 <i>confirm</i>	13	C#2333	R3696	21:17:38 ON FEB 1, 1984
PP 19267 <i>confirm</i>	14	C#2333	R3511	21:53:28 ON FEB 1, 1984
PP 19266 <i>confirm</i>	15	C#2333	R3509	22:29:19 ON FEB 1, 1984
PP 19265 <i>confirm</i>	16	C#2333	R3507	23:05:12 ON FEB 1, 1984
PP 19264 <i>confirm</i>	17	C#2333	R3503	23:41:04 ON FEB 1, 1984
SD EPA4	18			0:16:54 ON FEB 2, 1984
SD MD	19			0:52:46 ON FEB 2, 1984
PP 19263 <i>confirm</i>	20	C#2333	SS	1:28:38 ON FEB 2, 1984
PP 19262 <i>confirm</i>	21	C#2333	SS	2:04:30 ON FEB 2, 1984
✓ PP 19257 <i>confirm</i>	22	C#2333	R3501	2:40:21 ON FEB 2, 1984
PP 18549 <i>deprp</i>	23	C#2333	R3356	3:16:12 ON FEB 2, 1984
✓ PP 18878R	24	2349	SS	3:52:05 ON FEB 2, 1984
✓ PP 18877R	25	2349	SS	4:00:52 ON FEB 2, 1984
PP 18745 <i>confirm</i>	26		Blank	4:36:44 ON FEB 2, 1984
PP 18680 <i>confirm</i>	27		Blank	5:12:37 ON FEB 2, 1984
SD MD	28			5:48:32 ON FEB 2, 1984
SD EPA1	29			10:24:24 ON FEB 2, 1984
PP 18611 <i>confirm</i>	30		Blank	11:00:17 ON FEB 2, 1984
PP 18604 <i>confirm</i>	31	2347	Blank	11:36:29 ON FEB 2, 1984
SD HR	32			12:12:20 ON FEB 2, 1984
				14:09:36 ON FEB 2, 1984
				14:04:36 ON FEB 2, 1984

31

003154

025464

D

025463
003155

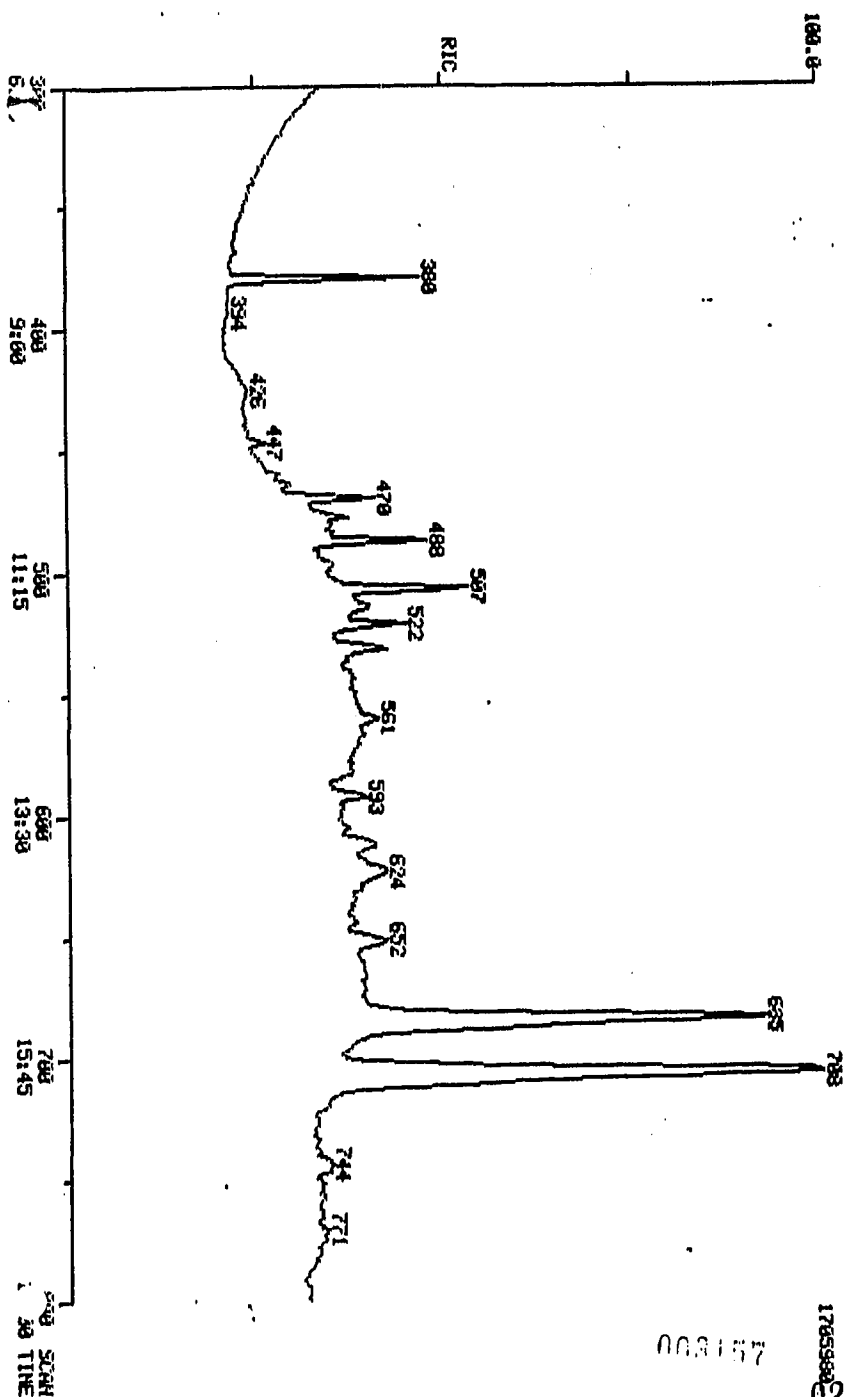
EPA CASE# 2333

HEAD CONCUSSION CASE SUMMARY REFERENCE GUIDE

REVIEWER 1-25-84
date 1-25-84

[illegible]

RUC
 8/2/89/84 19:23:08
 SAMPLE 2ULS TCD STD. #8388 (200 PG/UL) ON #5
 HEAD CONFUCHEN
 Data: 1384026585
 SCANS 300 TO 500



003157

025467

RIC
02/09/84 19:23:00
SAMPLE: 2ALS TCD STD. 46368 (200 PG/L) ON #5

HEAD CONFUCHEN
DATA: TS840203685

SCANS 600 TO 620

100.0

585

612

614

693248.

003158

31

025468

RIC

600
13:31

605
13:37

610
13:

615
13:50

620 SCAN
13:50 TIME

PROCEDURE: RK
 DATA FILE: T8840209B05
 REFERENCE: TC
 METHOD: TC
 REPORT: TCS

DIAGNOSTIC REPORT

2/09/84 20:25:46

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- >C --- PLUS UNKNOWN --- >C - LIST NAMES - >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 2 2 2 4 7 7 1 37 TCB/TCU

7 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND		SEARCH						SAT		CHRO			
NO	LIB ENTRY	REF	PRED	BEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS	
1	TC	1	-705	707	707	.	1	832	.	332	708	1	1
2	TC	2	-683	685	685	.	2	945	.	320	685	.	1
3	TC	3	-683	685	685	.	1	945	.	322	685	.	1
4	TC	4	-684	686	685	-1	1	945	.	257	686	1	1
5	TC	5	-706	708	708	.	1	926	.	320	708	.	1
6	TC	6	-706	708	708	.	1	926	.	322	708	.	1
7	TC	7	-706	708	708	.	1	927	.	257	708	.	1

QUANTITATION REPORT MEAD COMPUCHEN
FILE: T8840209B05

DATA: T8840209B05.TI

02/09/84 19:23:00

SAMPLE: 2ULS TCDD STAND. #B98B (200 PG/UL) ON #5

SUBMITTED BY: #5

ANALYST: 615

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	332	708	15:56	1	1.000	A VE	1451640.	200.000 PG/UL	11.77
2	320	685	15:25	1	0.968	A BV	1796040.	218.486 PG/UL	12.85
3	322	685	15:25	1	0.968	A BV	2263020.	219.851 PG/UL	12.93
4	257	686	15:26	1	0.969	A VV	2494440.	450.367 PG/UL	26.49
5	320	708	15:56	1	1.000	A VE	1469910.	210.278 PG/UL	12.37
6	322	708	15:56	1	1.000	A VV	1818410.	203.200 PG/UL	11.95
7	257	708	15:56	1	1.000	A VE	843605.	197.647 PG/UL	11.63

ID	RET(L)	RATIO	RRT(L)	RATIO	AMNT.	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	15:47	1.01	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	15:18	1.01	0.970	1.00	218.49	200.00	1.237	1.133	1.07
3	15:18	1.01	0.970	1.00	219.85	200.00	1.559	1.418	1.10
4	15:20	1.01	0.971	1.00	450.37	200.00	1.718	0.763	2.25
5	15:49	1.01	1.003	1.00	210.28	200.00	1.013	0.963	1.05
6	15:49	1.01	1.003	1.00	203.20	200.00	1.253	1.233	1.02
7	15:49	1.01	1.003	1.00	197.65	200.00	0.581	0.588	0.99

003160

025470

QUANTITATION REPORT

MEAD COMPUCHEM
FILE: T8B40209B05

DATA: T8B40209B05.TI

MAY 09/84 19:23:00

SAMPLE: 2ULS TCDD STAND. #8988 (200 PG/UL) ON #5

SUBMITTED BY: #5

ANALYST: 615

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	332	708	15:56	1	1.000	A VE	1451640.	200.000 PG/UL	14.29
2	320	685	15:25	1	0.968	A BV	1796040.	200.000 PG/UL	14.29
3	322	685	15:25	1	0.968	A BV	2263020.	200.000 PG/UL	14.29
4	257	686	15:26	1	0.969	A VV	2494440.	200.000 PG/UL	14.29
5	320	708	15:56	1	1.000	A VE	1469910.	200.000 PG/UL	14.29
6	322	708	15:56	1	1.000	A VV	1818410.	200.000 PG/UL	14.29
7	257	708	15:56	1	1.000	A VE	843605.	200.000 PG/UL	14.29

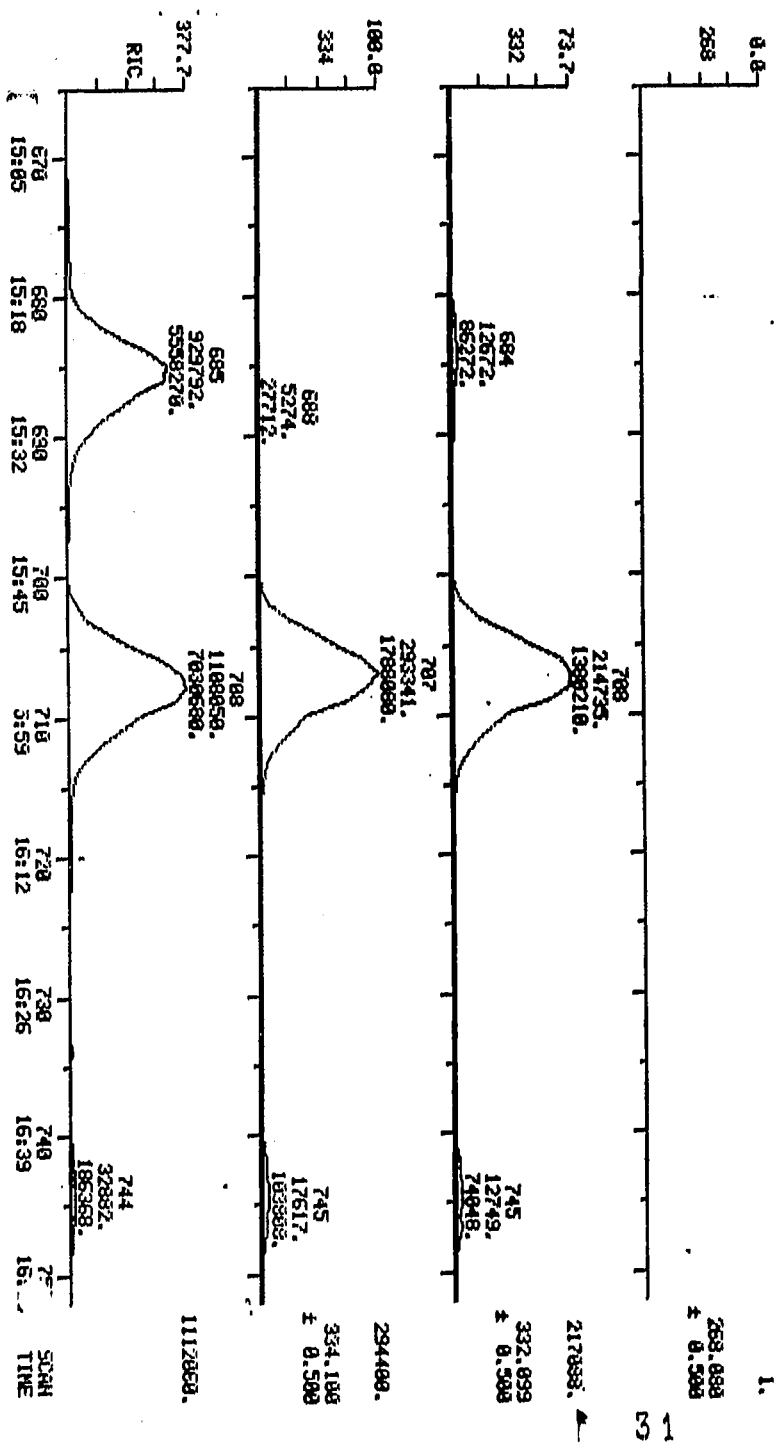
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	15:56	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	15:25	1.00	0.968	1.00	200.00	200.00	1.237	1.237	1.00
3	15:25	1.00	0.968	1.00	200.00	200.00	1.559	1.559	1.00
4	15:26	1.00	0.969	1.00	200.00	200.00	1.718	1.718	1.00
5	15:56	1.00	1.000	1.00	200.00	200.00	1.013	1.013	1.00
6	15:56	1.00	1.000	1.00	200.00	200.00	1.253	1.253	1.00
7	15:56	1.00	1.000	1.00	200.00	200.00	0.581	0.581	1.00

003181

RIC + MASS CHROMATOGRAMS
 82/59/84 19:23:08
 SAMPLE: 2UL5 TCD STAND. #8388 (200 PG/UL) ON #5
 #13C12-2.3.7.8-TCD(INTERNAL STANDARD)

HEAD CHROMAT
 DATA: 15846265865
 SCANS 665 TO 782

0025472

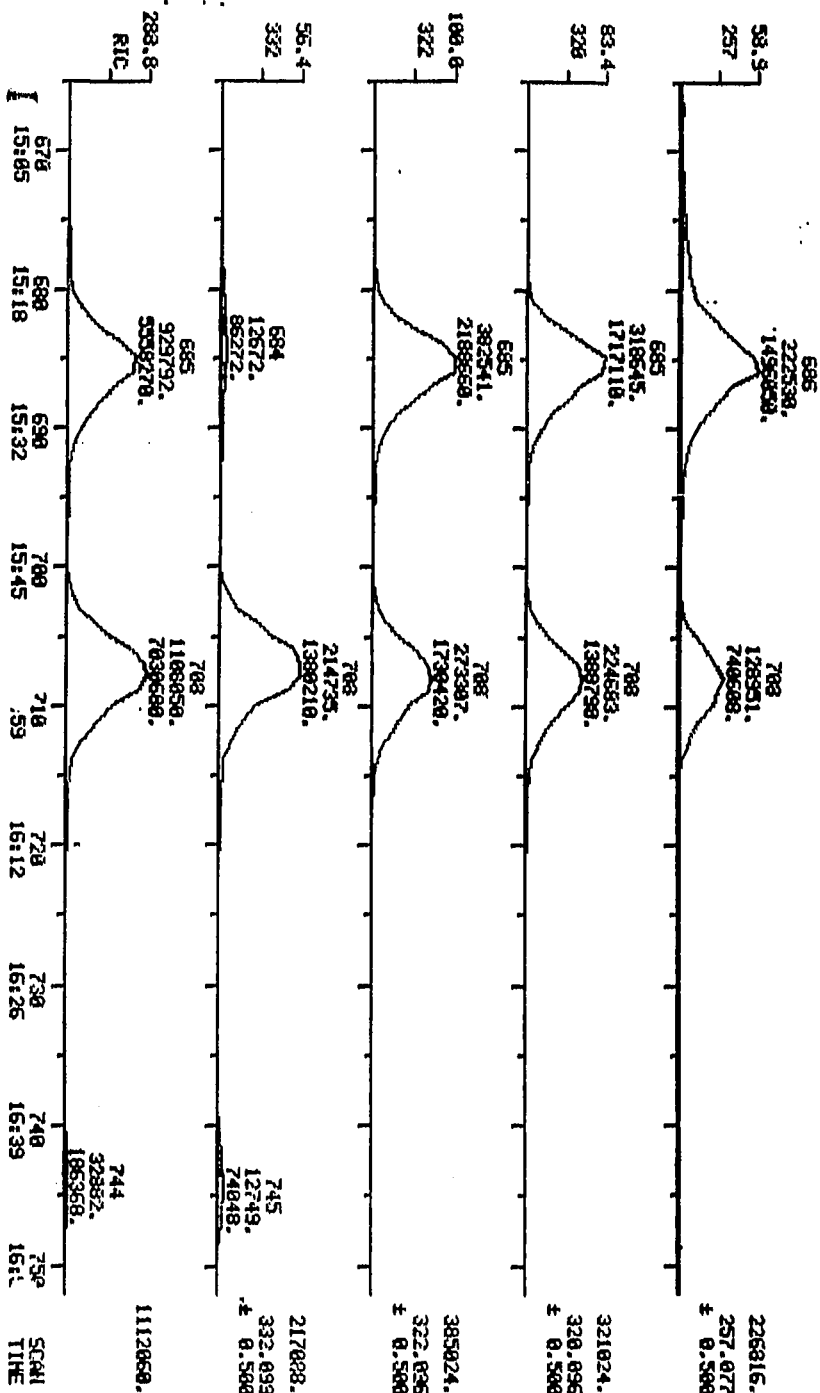


RIC + MASS CHROMATOGRAMS
02/09/84 19:23:00
SAMPLE 24.5 TCDD STD. #8988 (200 PG/UL) ON #5
2.3.2.8-TCDD

HEAD CHROMA
DATA: 1584026585

SCANS 665 TO 752

003103
025473



233

Mead ComputChem GC/MS Analysis Log

Initial Time of Run 4:23
Time Run Elapsed 0:45

Run Log

Pieces Used, Multiple Copies

	File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1	TS640209806	✓		2ul	618		52	1498
2	TC0192443806	✓		2ul	618		52	
3	TC0192443805	✓		2ul	618		52	
4	TC0192443805	✓		2ul	763		62	
5	TC0192443805	✓		2ul	763		62	1
6	TC0192443805	✓		2ul	763		52	3
7	TC019250C05	✓		2ul	763		52	
8	TC019257C05	✓		2ul	763		52	
9	TC019264C05	✓		2ul	767		52	
10	TC019265C05	✓		2ul	767		52	out of
11	TC019266C05	✓		2ul	767		52	
12	TC019267C05	✓		2ul	763		52	
13								
14								
15								
16								
17								
18								
19								
20								

Sluttl(e) (A) _____ (B) ✓ (C) _____
 Date 2-4-88
 Analyst Type DCJ

025473

[illegible]

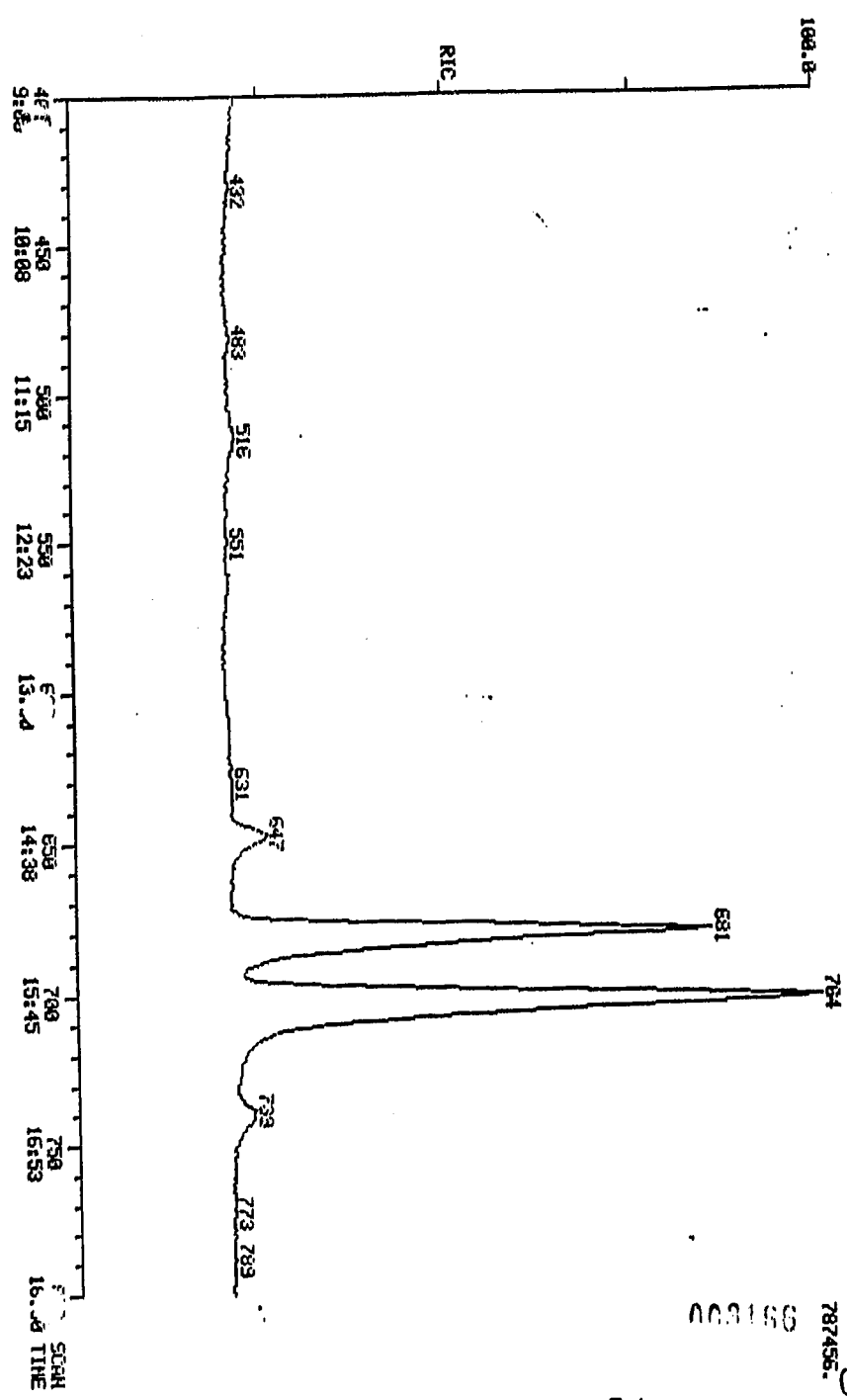
RIC
8/2/84 7:28:00
SAMPLE 2 UL 1000 STD #5388 QM# 45

RENO COMPUTER DATA: TUS46218085

SCANS 400 TO 800

787456

025473



QUANTITATION REPORT MEAD COMPUchem
FILE: TUB40210C05

DATA: TUB40210C05.TI

10/84 7:20:00

SAMPLE: 2 UL TCDD STD #8988 OWA #5

SUBMITTED BY: 55

ANALYST: 763

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	332	704	15:51	1	1.000	A BE	993538.	200.000 PG/UL	14.29
2	320	681	15:20	1	0.967	A BV	1211300.	200.000 PG/UL	14.29
3	322	681	15:20	1	0.967	A BV	1548360.	200.000 PG/UL	14.29
4	257	681	15:20	1	0.967	A BV	656672.	200.000 PG/UL	14.29
5	320	704	15:51	1	1.000	A VV	977530.	200.000 PG/UL	14.29
6	322	704	15:51	1	1.000	A VE	1215940.	200.000 PG/UL	14.29
7	257	704	15:51	1	1.000	A VE	616916.	200.000 PG/UL	14.29

	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	15:51	1.00	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	15:20	1.00	0.967	1.00	200.00	200.00	1.219	1.219	1.00
3	15:20	1.00	0.967	1.00	200.00	200.00	1.558	1.558	1.00
4	15:20	1.00	0.967	1.00	200.00	200.00	0.661	0.661	1.00
5	15:51	1.00	1.000	1.00	200.00	200.00	0.984	0.984	1.00
6	15:51	1.00	1.000	1.00	200.00	200.00	1.224	1.224	1.00
7	15:51	1.00	1.000	1.00	200.00	200.00	0.621	0.621	1.00

025477

QUANTITATION REPORT MEAD COMPUCHEN
FILE: TUB40210C05

DATA: TUB40210C05.TI

7/10/84 7:20:00

SAMPLE: 2 UL TCDD STD #B988 OWA #5

SUBMITTED BY: 55 ANALYST: 763

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	332	704	15:51	1	1.000	A BE	993538.	200.000 PG/UL	15.66
2	320	681	15:20	1	0.967	A BV	1211300.	197.000 PG/UL	15.43
3	322	681	15:20	1	0.967	A BV	1548360.	199.936 PG/UL	15.65
4	257	681	15:20	1	0.967	A BV	656672.	76.928 PG/UL	6.02
5	320	704	15:51	1	1.000	A VV	977530.	194.333 PG/UL	15.21
6	322	704	15:51	1	1.000	A VB	1215940.	195.401 PG/UL	15.30
7	257	704	15:51	1	1.000	A VB	616916.	213.695 PG/UL	16.73

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT.	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	15:56	0.99	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	15:25	0.99	0.968	1.00	197.08	200.00	1.219	1.237	0.99
3	15:25	0.99	0.968	1.00	199.94	200.00	1.558	1.559	1.00
4	15:26	0.99	0.969	1.00	76.93	200.00	0.661	1.718	0.38
5	15:56	0.99	1.000	1.00	194.33	200.00	0.984	1.013	0.97
6	15:56	0.99	1.000	1.00	195.40	200.00	1.224	1.253	0.98
7	15:56	0.99	1.000	1.00	213.69	200.00	0.621	0.581	1.07

025478

PROCEDURE: RK
 DATA FILE: TUB40210C05
 REFERENCE: TC
 METHOD: TC
 REPORT: TCS

DIAGNOSTIC REPORT

2/10/84 7:39:19

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- > < ---- PLUS UNKNOWN ---- > < - LIST NAMES - >
 PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
 2 2 1 0 7 7 1 0 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	707	703	703	1	830	332	704	1	1	
2	TC	2	685	681	681	1	995	320	681		1	
3	TC	3	685	681	681	1	995	322	681		1	
4	TC	4	685	681	681	1	995	257	681		1	
5	TC	5	708	704	704	1	976	320	704		1	
6	TC	6	708	704	704	1	976	322	704		1	
7	TC	7	708	704	704	1	968	257	704		1	

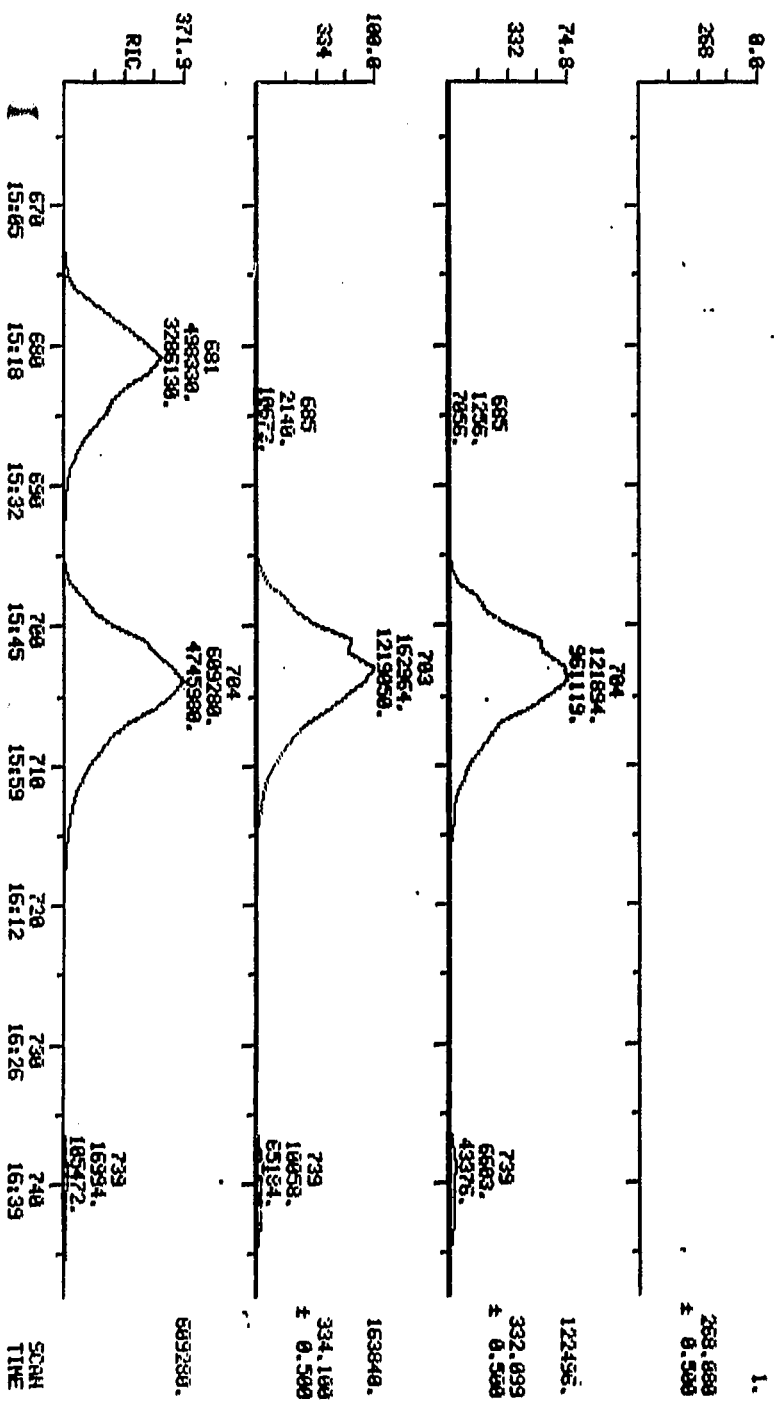
000025473

RIC + HSS CHROMATOGRAMS
 02/10/84 7:20:00
 SAMPLE: 2 U.L. TCDD STD #8388 Q40 #5
 #13C12-2,3,7,8-TCDD (INTERNAL STANDARD)

HEAD COMPILER DATA TUE40210035

SCANS 661 TO 749

0254300

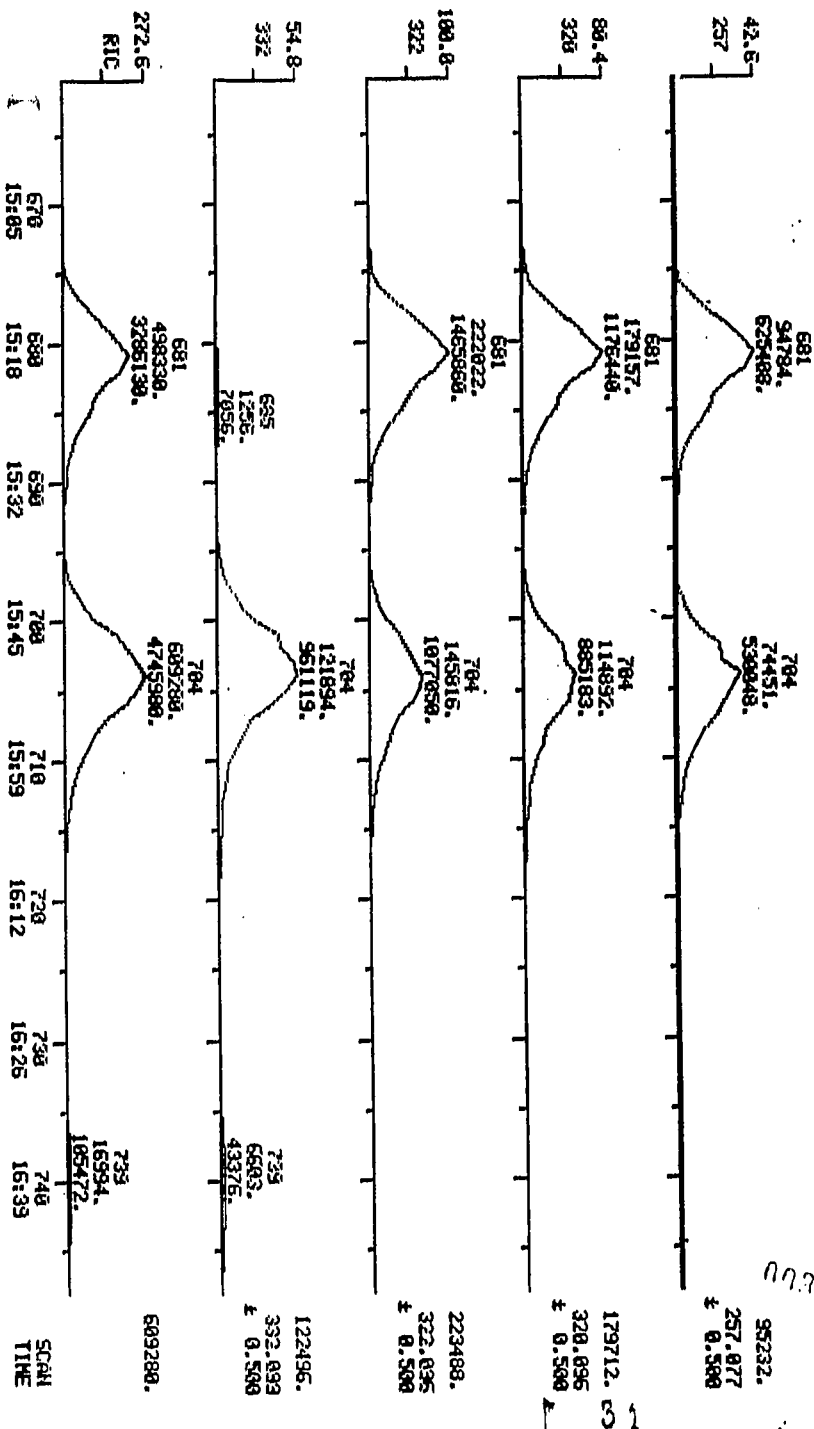


RIC + MASS CHROMATOGRAMS
02/18/84 7:28:00
SAMPLE 2 UL TCDD STD #8388 QM# 45
2.3.7.8-TCDD

HEAD CHROMA DATA: TUE40210035

SCANS 681 TO 746

025481



RIC
02/18/84 7:28:00
SAMPLE 2 UL 1000 STD #8988 QM4 #5

NEED CONFIRMED
DATA: T0840218085

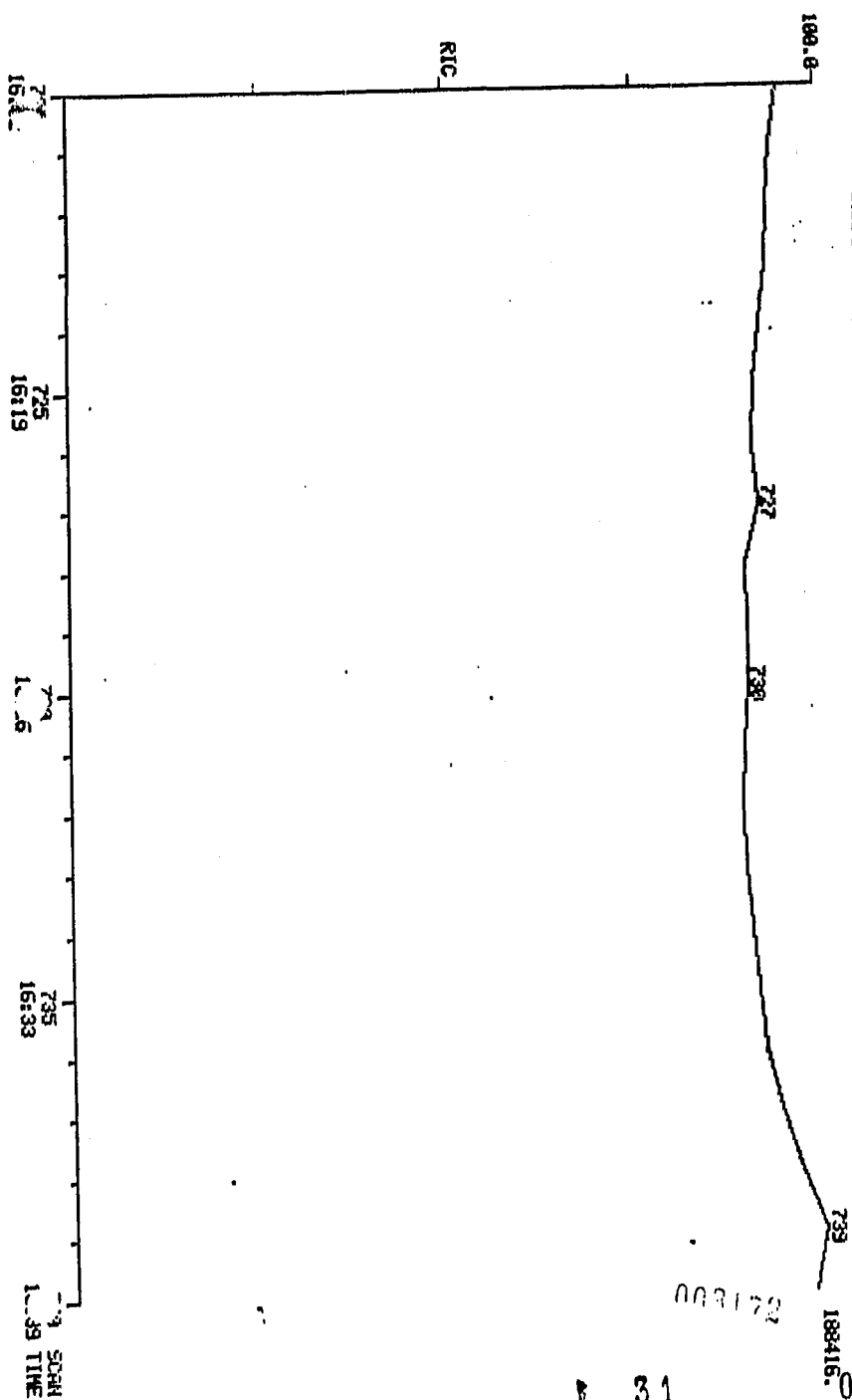
SCANS 728 TO 748

188416

025482

003172

31



Mead Compuchem GC/MS Analysis Log

Initial Time of Tune 07:22
Time Tune Elapsed 15:20
Shift Date Area

Run Log

Press Hard, Multiple Copies

File Name	Used	Not Used	Amount Injected	Operator	Tape No.	Disc. No.	
1 T5840240C05		✓	2.21 8988	763		52	8
2 T5840240C05		✓	2.21 8988	763		52	1
3 Bake out 15 min.							
4 T4840240C05	✓		2.21 8988	763		52	
5 HEXOCLANE C05			2.21 8988	763		52	
6 TCD192405TAC05	✓		2.21 192405	419		52	1
7 TCD192405TAC05	✓		2.21 192405	419		52	8
8 TCD192405TAC05	✓		2.21 192405	419		52	
9 TCD192405TAC05	✓		2.21 192405	419		52	
10 TCD192405TAC05	✓		2.21 192405	419		52	
11 TCD192405TAC05	✓		2.21 192405	419		52	
12 TCD192405TAC05	✓		2.21 192405	419		52	
13							
14							
15							
16							
17							
18							
19							
20							

025483

GC. 2-10-84

Shift(s) (A) 2 (B) 3-8 (C) 1
Date 1-3-84
Analysis type GC/MS

Press Hard, Multiple Copies

[illegible]

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

000175 025485

Volatile			
	Case 2333		1
1	19264	130 BIK	2/22/84
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
		00-4475	
		31	025483

Internal Standard Response Verification Data Sheet

PAGE 1

Carr. No. 2333 Contractor CompuChem Contract No. 68-01-6866Instrument I.D. OWA_016 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					
6U840130B18	013084	103669	1.000	103669	1.000	103669	1.000							1.000	1.000			
6S840130A18	013084	113521	1.000	113521	1.000	113521	1.000							1.000	1.000			
6T840130A18	013084	115228	1.000	115228	1.000	115228	1.000							1.000	1.000			
6H019264A18	013184	74895	.461	34325	.837	86496	1.000							2.182	.397			

R1 = (Resp ISA/Resp ISB)

R2 = (Resp ISB/Resp ISC)

R3 = (Resp ISC/Resp ISD)

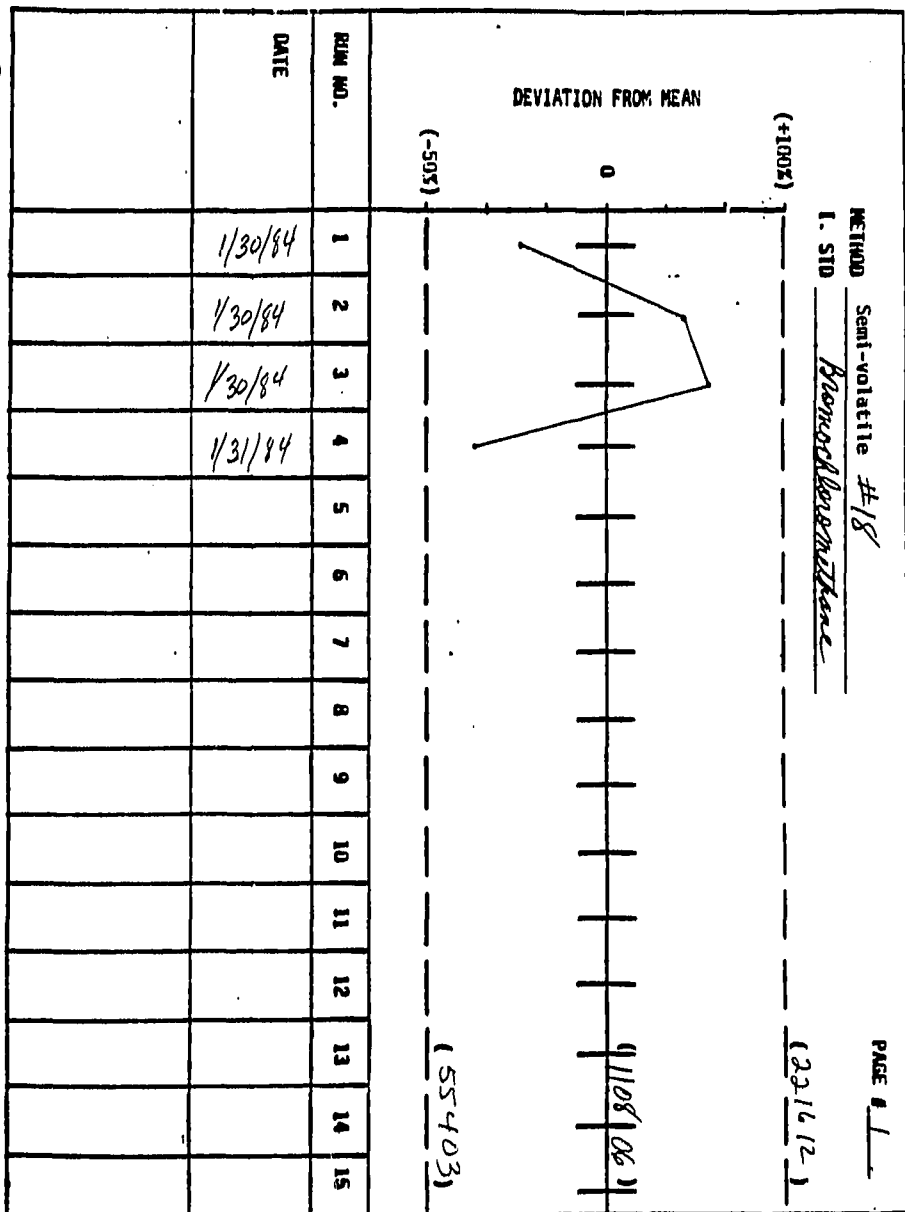
R4 = (Resp ISD/Resp ISE)

R5 = (Resp ISE/Resp ISF)

003177

31

025487



000178

025483

Co. No. _____ Contractor CompuChem Contract No. _____

Instrument Identifier DNA 018 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	
1,1-DICHLOROETHYLENE	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	1.780	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	

Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor

009179
025489

Calibration Check Report - Volatile HSL Compounds

Page 1

Co. No. _____ Contractor _____ CoepuChes _____ Contract No. _____
 In...uent Identifier DMA #18 _____ Calibration Date 01/30/84
 Standard File 69840131C18 _____ Date 01/31/84 Time 06:20
 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	0.497	-27.130		**
METHYL BROMIDE	1.927	1.831	-5.100		
VINYL CHLORIDE	2.036	1.875	-8.230	*	
CHLOROETHANE	0.436	0.379	-13.980		
METHYLENE CHLORIDE	1.470	0.765	-63.080		
TRICHLOROFLUOROMETHANE	1.602	1.531	-4.530		
1,1-DICHLOROETHYLENE	0.794	0.741	-6.900	*	
1,1-DICHLOROETHANE	0.378	0.337	-11.460		**
1,2-TRANS-DICHLOROETHYLENE	0.864	0.804	-7.190		
CHLOROFORM	1.663	1.547	-7.220	*	
1,2-DICHLOROETHANE	1.050	1.010	-3.880		
1,1,1-TRICHLOROETHANE	1.272	1.187	-6.910		
CARBON TETRACHLORIDE	1.371	1.328	-3.330		
DICHLOROBROMOMETHANE	0.173	0.172	-0.570	*	
1,2-DICHLOROPROPANE	0.241	0.228	-6.420		
TRANS-1,3-DICHLOROPROPYLENE	1.464	1.404	-4.180		
TRICHLOROETHYLENE	1.178	1.158	-1.710		
CHLORODIBROMOMETHANE	1.326	1.372	3.400		
BENZENE	2.284	2.179	-4.700		
1,1-TRICHLOROETHANE	0.924	0.937	1.390		
Cis-1,3-DICHLOROPROPYLENE	0.748	0.725	-3.120		
2-CHLOROETHYL VINYL ETHER	0.418	0.362	-14.350		**
BROMOFORM	1.374	1.481	7.490		**
1,1,2,2-TETRACHLOROETHANE	1.651	1.679	1.680		**
TETRACHLOROETHYLENE	1.143	1.139	-0.350		
TOLUENE	1.594	1.504	-5.810	*	
CHLOROBENZENE	2.204	2.137	-3.080		**
ETHYLBENZENE	1.085	1.032	-5.000		
ACETONE (2-PROPANONE)	0.072	0.076	5.400		
2-BUTANONE	0.105	0.116	9.950		
CARBON BISULFIDE	3.003	3.213	6.750		
2-HEXANONE	0.386	0.405	4.800		
4-METHYL-2-PENTANONE	0.439	0.489	10.770		
STYRENE	2.182	2.361	7.880		
VINYL ACETATE	1.205	1.273	5.480		
O-XYLENE	1.371	1.465	6.620		

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 **)

025460

Volatile		
	Case 2333	
1	19257 131C18	02/20/84
2	19265	✓
3	19266 131B18	
4	19267	
5	19268	
6	19269	✓
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
	025491	

Internal Standard Response Verification Data Sheet

PAGE 1

Case No. 2333 Contractor Compuchec Contract No. 62-01-6866Instrument I.D. OKA-112 C.C. Report No. _____

Sample/Run	Date	ISA		ISE		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					
GUR40130B1B	0130B4	103669	1.000	103669	1.000	103669	1.000							1.000	1.000			
BSB40130A1B	0130B4	113521	1.000	113521	1.000	113521	1.000							1.000	1.000			
BTB40130A1B	0130B4	115228	1.000	115228	1.000	115228	1.000							1.000	1.000			
BSB40131C1B	0131B4	108330	1.000	108330	1.000	108330	1.000							1.000	1.000			
BR018574A1B	0131B4	67733	1.000	67733	1.000	67733	1.000							1.000	1.000			
CN19365A1B	0131B4	86506	1.000	86506	1.000	86506	1.000							1.000	1.000			
CN19366A1B	0131B4	83997	1.000	83997	1.000	83997	1.000							1.000	1.000			
CN19257A1B	0131B4	58869	.463	23259	.837	41066	1.000							2.531	.566			
BHO19454A1B	0131B4	84124	.466	34962	.839	81855	1.000							2.406	.427			
CN19265A1B	0131B4	81226	.468	34064	.837	74944	1.000							2.385	.455			
BSB40131B1B	0131B4	64740	1.000	64740	1.000	64740	1.000							1.000	1.000			
CN19266B1B	0131B4	80932	.466	33775	.837	73445	1.000							2.352	.460			
CN19267B1B	0131B4	67142	.465	29398	.839	58581	1.000							2.284	.502			
CN19268B1B	0131B4	74701	.466	31650	.836	67906	1.000							2.368	.466			
CN19269B1B	0131B4	72376	.465	29674	.837	62478	1.000							2.423	.478			
BTB40201C1B	0201B4	78087	1.000	78087	1.000	78087	1.000							1.000	1.000			
CN19457C1B	0201B4	85833	1.000	85833	1.000	85833	1.000							1.000	1.000			
CN19458C1B	0201B4	77922	1.000	77922	1.000	77922	1.000							1.000	1.000			
CN19336C1B	0201B4	78224	.463	33853	.836	76894	1.000							2.311	.440			
7320C1B	0201B4	78065	.467	32745	.837	77153	1.000							2.384	.424			
CN19321C1B	0201B4	79226	1.000	79226	1.000	79226	1.000							1.000	1.000			
BHO19322A1B	0201B4	82211	1.000	82211	1.000	82211	1.000							1.000	1.000			
CN19337B1B	0201B4	45937	1.000	45937	1.000	45937	1.000							1.000	1.000			
BSB40201B1B	0201B4	80442	1.000	80442	1.000	80442	1.000							1.000	1.000			
BHO19400B1B	0201B4	74476	1.000	74476	1.000	74476	1.000							1.000	1.000			
BHO19401E1B	0201B4	67996	1.000	67996	1.000	67996	1.000							1.000	1.000			
BHO19426B1B	0201B4	68233	1.000	68233	1.000	68233	1.000							1.000	1.000			
CN19427B1B	0201B4	62673	1.000	62673	1.000	62673	1.000							1.000	1.000			
BHO19400B1B	0201B4	67306	1.000	67306	1.000	67306	1.000							1.000	1.000			
BHO19405E1B	0201B4	78165	.467	30285	.839	68054	1.000							2.582	.445			
BTB40202C1B	0202B4	81731	1.000	81731	1.000	81731	1.000							1.000	1.000			
BHO19417C1B	0202B4	63314	.467	36932	.837	85982	1.000							2.252	.430			

R1 = (Resp ISA/Resp ISB)

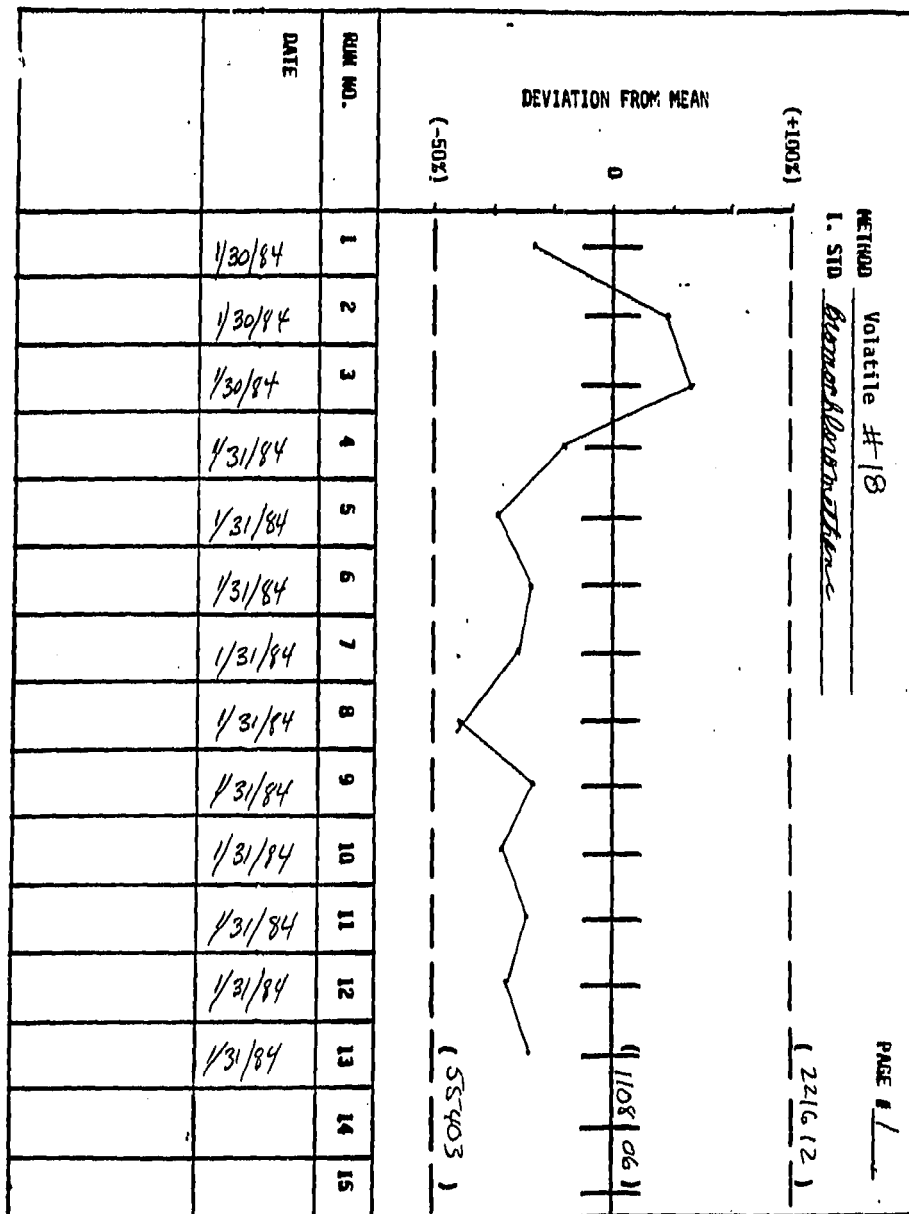
R2 = (Resp ISB/Resp ISC)

R3 = (Resp ISC/Resp ISD)

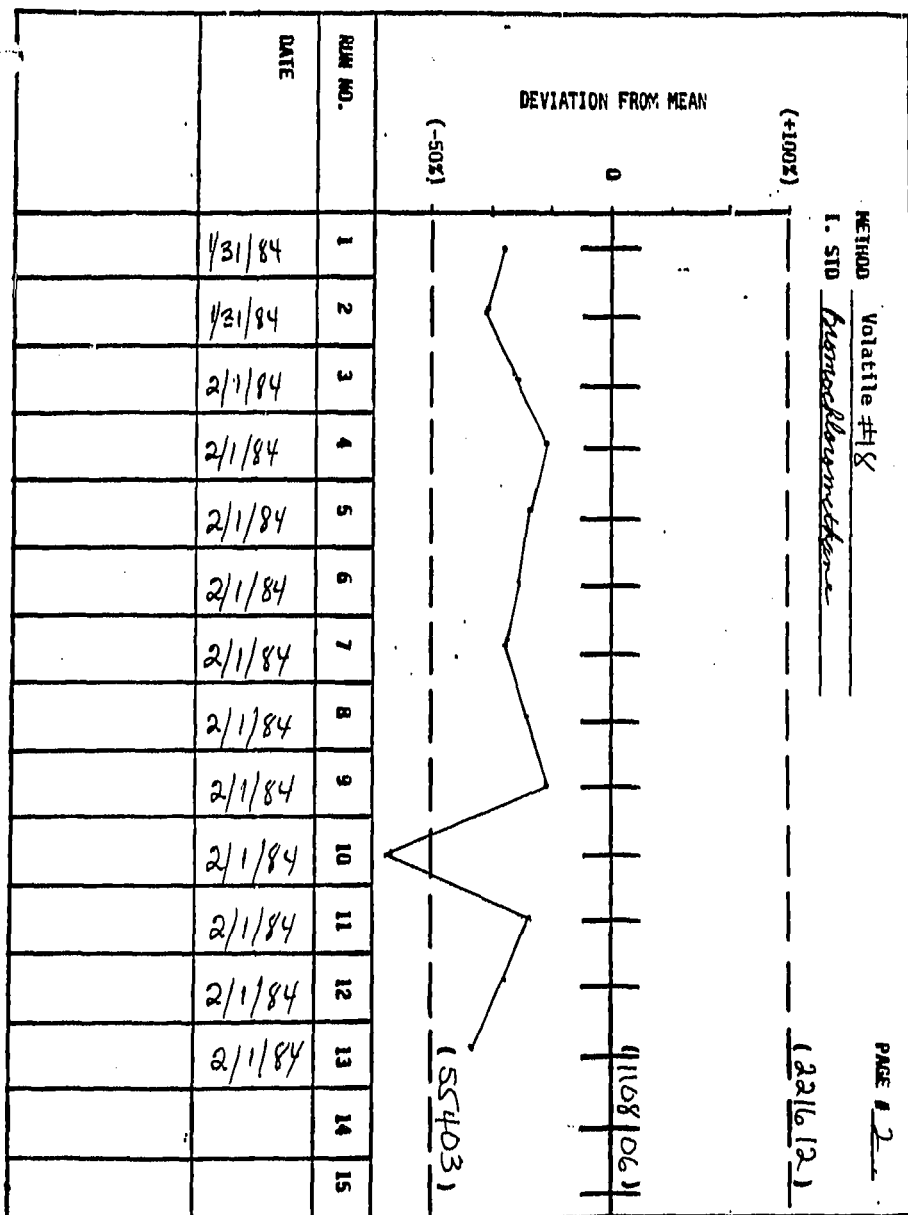
R4 = (Resp ISD/Resp ISE)

R5 = (Resp ISE/Resp ISF)

025492



00025493



0091025494

METHOD Volatile #19		PAGE # 3
1. STD <i>Acetone/Alcohol mixture</i>		(2216.12.1)
DEVIATION FROM MEAN		
(+100%)	0	
(-50%)		
		(11108.06.1)
		(55403)
RUN NO.	DATE	
1	2/1/84	
2	2/1/84	
3	2/1/84	
4	2/1/84	
5	2/2/84	
6	2/2/84	
7		
8		
9		
10		
11		
12		
13		
14		
15		

003185 025495

Calibration Check Report - Volatile HCL Compounds

Page 1

Case No. 2333Contractor CorpuChemContract No. 68-01-6866Instrument Identifier OWA NIECalibration Date 01/30/84Standard File BT840202C16Date 02/02/84 Time 04:52Min. Δ for CCC is 20.00

Minimum RF for SPCC is 0.300

Compound	Avg RF	RF	Δ	CCC	SPCC
METHYL CHLORIDE	0.887	0.502	-25.950		**
METHYL BROMIDE	1.927	1.855	-3.806		
VINYL CHLORIDE	2.036	1.774	-13.750	*	
CHLOROETHANE	0.436	0.378	-14.770		
METHYLENE CHLORIDE	1.470	0.831	-55.540		
TRICHLOROFLUOROMETHANE	1.602	1.664	15.110		
1,1-DICHLOROETHYLENE	0.794	0.847	6.450	*	
1,1-DICHLOROETHANE	0.378	0.386	2.610		**
1,2-TRANS-DICHLOROETHYLENE	0.864	0.916	5.840		
CHLOROFORM	1.663	1.807	8.290	*	
1,2-DICHLOROETHANE	1.050	1.213	14.400		
1,1,1-TRICHLOROETHANE	1.575	1.466	-14.170		
CARBON TETRACHLORIDE	1.371	1.638	17.740		
DICHLORODIBROMOMETHANE	0.173	0.298	16.370	*	
1,2-DICHLOROPROPANE	0.241	0.264	9.100		
TRANS-1,3-DICHLOROPROPYLENE	1.464	1.681	15.740		
TRICHLOROETHYLENE	1.178	1.358	14.190		
CHLORODIBROMOMETHANE	1.326	1.674	25.200		
BENZENE	2.284	2.637	14.340		
1,1,2-TRICHLOROETHANE	0.924	1.134	20.400		
CIS-1,3-DICHLOROPROPYLENE	0.748	0.902	18.660		
1,2-DICHOETHYL VINYL ETHER	0.418	0.452	7.810		**
BROMOFORM	1.374	1.753	24.240		**
1,1,2,2-TETRACHLOROETHANE	1.651	1.863	17.280		**
TETRACHLOROETHYLENE	1.147	1.334	15.420		
TCBULENE	1.554	1.765	14.400	*	
CHLOROBENZENE	2.204	2.520	13.370		**
ETHYLBENZENE	1.085	1.331	12.760		
ACETONE (2-PROPANONE)	0.572	0.682	12.980		
2-BUTANONE	0.185	0.122	-14.970		
CARBON DISULFIDE	3.067	3.587	17.610		
2-HEXANONE	0.381	0.445	14.860		
4-METHYL-2-PENTANONE	0.479	0.563	24.750		
STYRENE	2.182	2.711	21.620		
VINYL ACETATE	1.205	1.516	22.850		
O-XYLENE	1.371	1.694	21.070		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

 Δ - Percent Difference

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

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

003180
025496

Calibration Check Report - Volatile HS. Compounds

Page 1

Case No. 2333Contractor CompuChemContract No. 68-01-6806Instrument Identifier OWA #18Calibration Date 01/30/85Standard File 6584C001B18Date 02/01/84 Time 17:37Permeant RD for CCC is 20.00Minimum RF for SPC is 0.300

Compound	Avg RF	RF	%D	CCC	SPCC
METHYL CHLORIDE	0.457	0.450	-36.800		##
METHYL BROMIDE	1.927	1.865	-3.270		
VINYL CHLORIDE	2.036	1.899	-6.960	*	
CHLOROETHANE	0.436	0.347	-22.730		
METHYLENE CHLORIDE	1.470	0.783	-60.980		
TRICHLOROFLUOROMETHANE	1.662	1.654	3.190		
1,1-DICHLOROETHYLENE	0.794	0.718	-10.050	*	
1,1-DICHLOROETHANE	0.378	0.328	-14.160		##
1,2-TRANS-DICHLOROETHYLENE	0.864	0.807	-6.820		
CHLOROFORM	1.663	1.602	-3.730	*	
1,2-DICHLOROETHANE	1.056	1.036	-1.940		
1,1,1-TRICHLOROETHANE	1.572	1.251	1.480		
CARBON TETRACHLORIDE	1.371	1.466	6.890		
DICHLOROBROMOMETHANE	0.177	0.151	9.390	*	
1,2-DICHLOROETHANE	0.241	0.225	-6.420		
TRANS-1,3-DICHLOROPROPYLENE	1.464	1.447	-1.160		
TRICHLOROETHYLENE	1.178	1.283	8.530		
CHLORODIBROMOMETHANE	1.326	1.534	14.670		
BENZENE	2.284	2.265	-0.830		
1,1,2-TRICHLOROETHANE	0.924	1.017	9.580		
CIS-1,2-DICHLOROPROPYLENE	0.748	0.763	1.980		
2-CHLOROETHYL VINYL ETHER	0.418	0.943	77.140		##
1,1,1,2-TETRACHLOROETHANE	1.374	1.707	21.610		##
TETRACHLOROETHYLENE	1.651	1.715	3.800		##
TOLUENE	1.143	1.309	13.530		
CHLOROBENZENE	1.594	1.599	0.310	*	
ETHYLBENZENE	2.204	2.371	7.300		##
ACETONE (2-PROPANONE)	1.055	1.146	5.460		
2-BUTANONE	0.070	0.073	1.370		
CARBON DISULFIDE	0.105	0.112	6.450		
2-HEXANONE	3.003	3.117	3.720		
4-METHYL-2-HEPTANONE	0.386	0.402	4.060		
STYRENE	1.436	0.482	9.330		
VINYL ACETATE	2.182	2.643	19.100		
O-XYLENE	1.205	1.257	4.220		
	1.371	1.665	19.600		

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 ##)

025437

Calibration Check Report - Volatile HSL Compounds

Page 1

Case No. 2333 Contractor CompuChem Contract No. 68-01-6866
 Instrument Identifier ORA #18 Calibration Date 01/30/84
 Standard File GT840201C18 Date 02/01/84 Time 03:18
 Response % for CCC is 20.00 Minimum RF for SPCC is 0.300

Compound	Avg RF	RF	%	CCC	SPCC
METHYL CHLORIDE	0.453	0.471	-32.380		**
METHYL BROMIDE	1.927	1.862	-3.430		
VINYL CHLORIDE	2.036	1.889	-7.490	*	
CHLOROETHANE	0.436	0.361	-18.820		
METHYLENE CHLORIDE	1.470	0.758	-63.910		
TRICHLOROFLUOROMETHANE	1.602	1.804	11.860		
1,1-DICHLOROETHYLENE	0.794	0.750	-5.690	*	
1,1-DICHLOROETHANE	0.378	0.354	-6.550		**
1,2-TRANS-DICHLOROETHYLENE	0.864	0.834	-3.530		
CHLOROFORM	1.663	1.671	0.470	*	
1,2-DICHLOROETHANE	1.050	1.129	7.180		
1,1,1-TRICHLOROETHANE	1.272	1.311	3.010		
CARBON TETRACHLORIDE	1.221	1.477	7.440		
DICHLORODIFLUOROMETHANE	0.173	0.195	12.470	*	
1,2-DICHLOROPROPANE	0.241	0.243	0.820		
TRANS-1,3-DICHLOROPROPYLENE	1.464	1.567	6.790	(*)	
TRICHLOROETHYLENE	1.176	1.244	5.450		
CHLORODIBROMOMETHANE	1.326	1.562	16.340		
BENZENE	2.284	2.426	6.020		
1,1,2-TRICHLOROETHANE	0.924	1.035	11.710		
CIS-1,3-DICHLOROPROPYLENE	0.748	0.830	10.390		
2-CHLOROETHYL VINYL ETHER	0.418	0.360	-14.910		**
FORM	1.374	1.615	16.120		**
1,1,2,2-TETRACHLOROETHANE	1.651	1.749	5.760		**
TETRACHLOROETHYLENE	1.143	1.226	7.000		
TOLUENE	1.594	1.610	0.990	*	
CHLOROBENZENE	2.204	2.343	6.110		**
ETHYLBENZENE	1.085	1.114	2.630		
ACETONE (2-PROPANONE)	0.072	0.073	1.370		
2-BUTANONE	0.105	0.106	2.810		
CARBON DISULFIDE	3.003	3.553	16.770		
2-HEXANONE	0.386	0.366	0.000		
4-METHYL-2-PENTANONE	0.435	0.476	8.080		
STYRENE	2.182	2.711	21.620		
VINYL ACETATE	1.205	1.307	8.120		
O-XYLENE	1.371	1.693	21.010		

Avg RF - Average Response Factor from initial calibration.

RF - Response Factor from daily standard file

- Percent Difference

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

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

003188

025498

P 31

Case No. 2333
 Instrument Identifier OK- FIE
 Standard File 68940171518
 Maximum Δ for CCC is 20.00

Contractor CospuChem
 Minimum RF for SFCC is 0.300

Contract No. 62-01-6466
 Calibration Date 01/30/84
 Date 01/31/84 Time 12:07

Compound	Avg RF	RF	%	CCC	SPCC
METHYL CHLORIDE	0.653	0.601	-8.290		**
METHYL BROMIDE	1.927	2.218	14.040		
VINYL CHLORIDE	2.034	2.319	12.990	*	
CHLOROETHANE	0.436	0.409	-6.390		
METHYLENE CHLORIDE	1.470	1.650	11.530		
TRICHLOROFLUOROMETHANE	1.602	1.948	19.490		
1,1-DICHLOROETHYLENE	0.794	0.839	5.510	*	
1,1-DICHLOROETHANE	0.376	0.368	-2.680		**
1,2-TRANS-DICHLOROETHYLENE	0.884	0.924	4.710		
CHLOROFORM	1.613	1.758	5.550	*	
1,2-DICHLOROETHANE	1.050	1.004	-4.470		
1,1,1-TRICHLOROETHANE	1.572	1.432	-11.630		
CARBON TETRACHLORIDE	1.371	1.654	18.830		
DICHLOROETHANEMETHANE	0.177	0.205	16.930	*	
1,2-DICHLOROPROPANE	0.241	0.244	1.230		
TRANS-1,3-DICHLOROPROPYLENE	1.464	1.501	2.490		
TRICHLOROETHYLENE	1.178	1.437	19.800		
CHLOROCHLOROMETHANE	1.326	1.484	11.240		
BENZENE	2.284	2.563	9.140		
1,1,2-TRICHLOROETHANE	0.924	0.948	2.560		
CIS-1,3-DICHLOROPROPYLENE	0.748	0.755	0.930		
1,2-DICHOETHYL VINYL ETHER	0.418	0.732	54.600		**
BROMOFORM	1.374	1.441	4.760		**
1,1,2,2-TETRACHLOROETHANE	1.651	1.408	-15.880		**
TETRACHLOROETHYLENE	1.142	1.491	26.420		
TOLUENE	1.554	1.822	15.340	*	
CHLOROBENZENE	2.204	2.652	18.450		**
ETHYLENEBENZENE	1.085	1.015	-15.460		
ACETONE ISOPROPANONE	0.672	0.044	-66.270		
2-BUTANONE	0.105	0.071	-36.630		
CARBON DISULFIDE	2.403	3.410	12.690		
2-HEXANONE	0.264	0.295	-26.720		
4-METHYL-2-PENTANONE	0.424	0.759	-20.050		
STYRENE	2.162	2.892	27.960		
VINYL ACETATE	1.205	0.990	-19.290		
D-XYLENE	1.371	1.833	26.830		

Avg RF - Average Response Factor from initial calibration.

F - 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 **)

000189

025499

31

Calibration Check Report - Volatile HSL Compounds

Page 1

Case No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier QHA 015Calibration Date 01/20/84Standard File GB40131C15Date 01/31/84 Time 04:20

Max ZD for CCC is 20.00

Minimum RF for SPCC is 0.300

Compound	Avg RF	RF	ZD	CCC	SPCC
METHYL CHLORIDE	0.653	0.497	-27.130		"
METHYL BROMIDE	1.927	1.831	-5.100		
VINYL CHLORIDE	2.036	1.875	-8.230	*	
CHLOROETHANE	0.436	0.379	-13.980		
METHYLENE CHLORIDE	1.470	0.765	-63.080		
TRICHLOROFLUOROMETHANE	1.602	1.531	-4.530		
1,1-DICHLOROETHYLENE	0.794	0.741	-6.900	*	
1,1-DICHLOROETHANE	0.375	0.337	-11.460		"
1,2-TRANS-DICHLOROETHYLENE	0.864	0.804	-7.190		
CHLOROFORM	1.663	1.547	-7.220	*	
1,2-DICHLOROETHANE	1.050	1.010	-3.880		
1,1,1-TRICHLOROETHANE	1.272	1.187	-6.910		
CARBON TETRACHLORIDE	1.371	1.326	-3.330		
DICHLORODIBROMOMETHANE	0.173	0.172	-0.570	*	
1,2-DICHLOROPROPANE	0.241	0.226	-6.420		
TRANS-1,3-DICHLOROPROPYLENE	1.464	1.404	-4.180		
TRICHLOROETHYLENE	1.178	1.158	-1.710		
CHLORODIBROMOMETHANE	1.326	1.372	3.400		
BENZENE	2.284	2.179	-4.700		
1,1,2-TRICHLOROETHANE	0.924	0.837	-1.390		
CIS-1,3-DICHLOROPROPYLENE	0.748	0.725	-3.120		
2-DIETHYL VINYL ETHER	0.416	0.362	-14.350		"
BROMOFORM	1.374	1.481	7.490		"
1,1,2,2-TETRACHLOROETHANE	1.651	1.679	1.680		"
TETRACHLOROETHYLENE	1.140	1.139	-0.350		
TOLUENE	1.554	1.504	-5.810	*	
CHLOROBENZENE	2.204	2.137	-3.080		"
ETHYLBENZENE	1.085	1.022	-5.000		
ACETONE (2-PROPANONE)	0.072	0.078	5.400		
2-BUTANONE	0.105	0.116	9.950		
CARBON DISULFIDE	3.037	3.213	4.750		
2-HEXANONE	0.366	0.405	4.890		
4-METHYL-2-PENTANONE	0.439	0.485	10.770		
STYRENE	2.182	2.361	7.880		
VINYL ACETATE	1.205	1.273	5.480		
O-XYLENE	1.371	1.465	6.620		

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 **)

025500

31

Case No. 2333Contractor CompuChemContract No. 62-01-6866In. Agent Identifier OWK #18

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	1.175	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	
1,1-DIBROMOMETHANE	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	1.778	1.652	*
TETRACHLOROETHYLENE	2.115	1.276	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	1.246	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	2.780	2.782	
VINYL ACETATE	1.402	1.522	0.896	1.197	1.205	
O-XYLENE	3.454	1.770	1.113	1.251	1.238	

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 *)

025501

003191

31

METHOD Semi-volatile #14
I. STD 158

(217868)

(+100%)

DEVIATION FROM MEAN

0

(-50%)

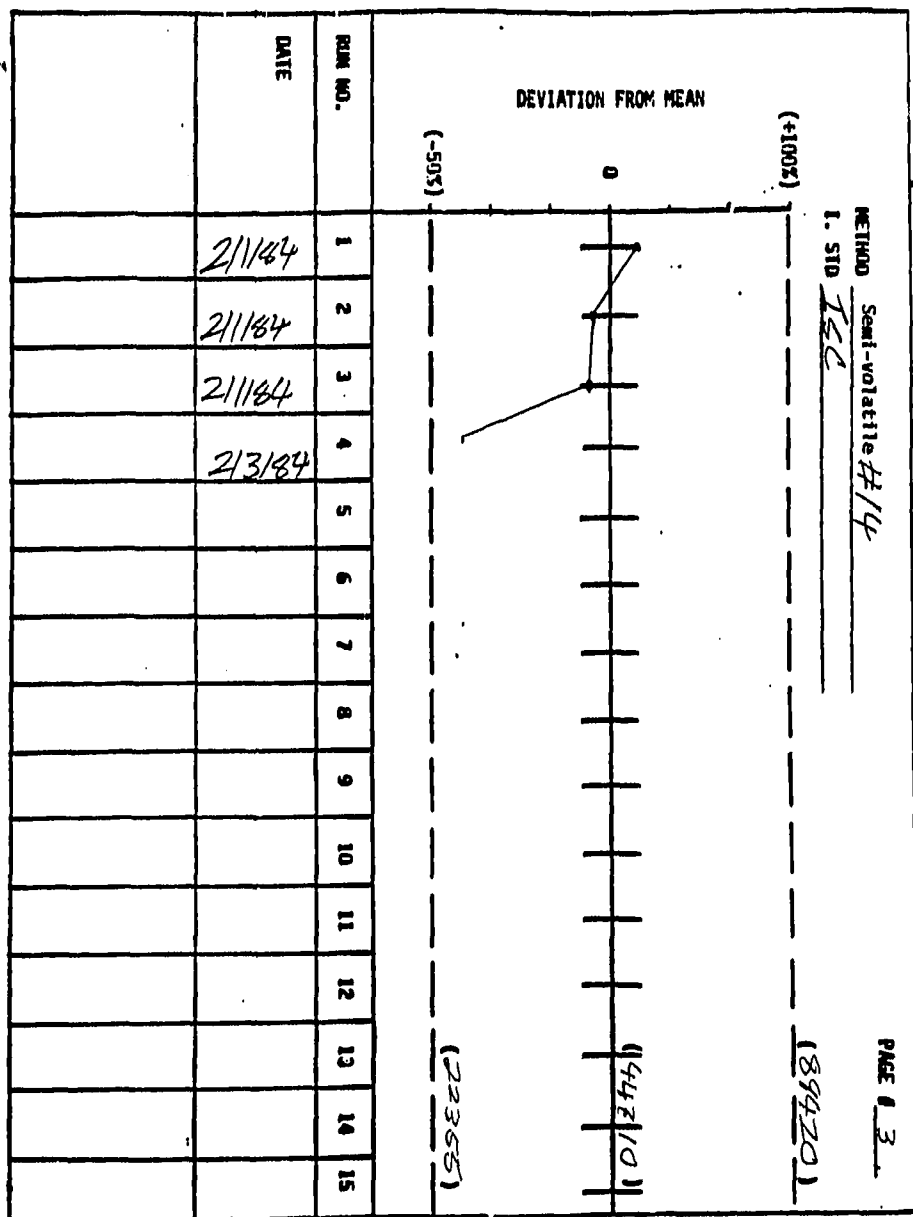
(54467)

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

025503

000103

31



025504
003124

METHOD Semi-volatile #14
 I. STD 15D

(144802)

DEVIATION FROM MEAN

(-505)

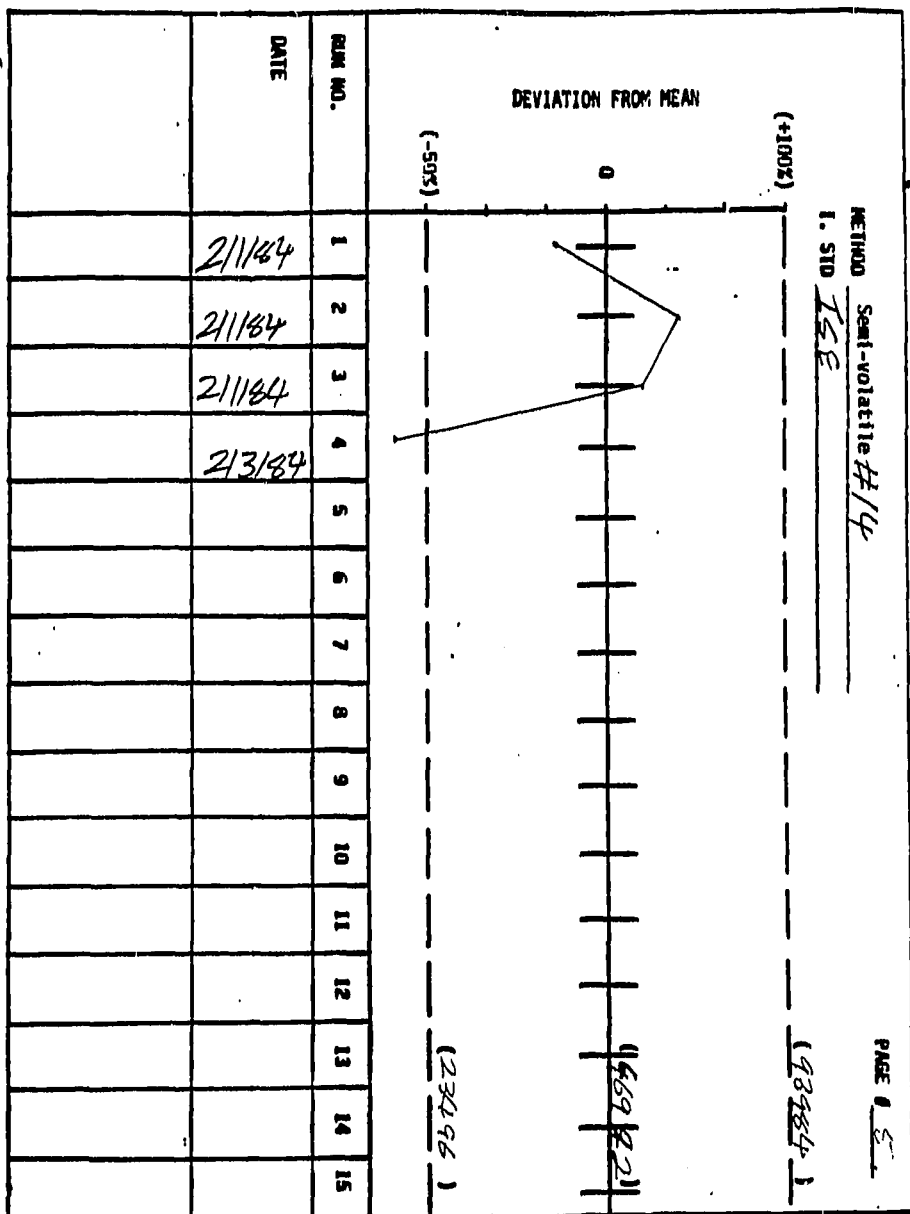
(+1005)



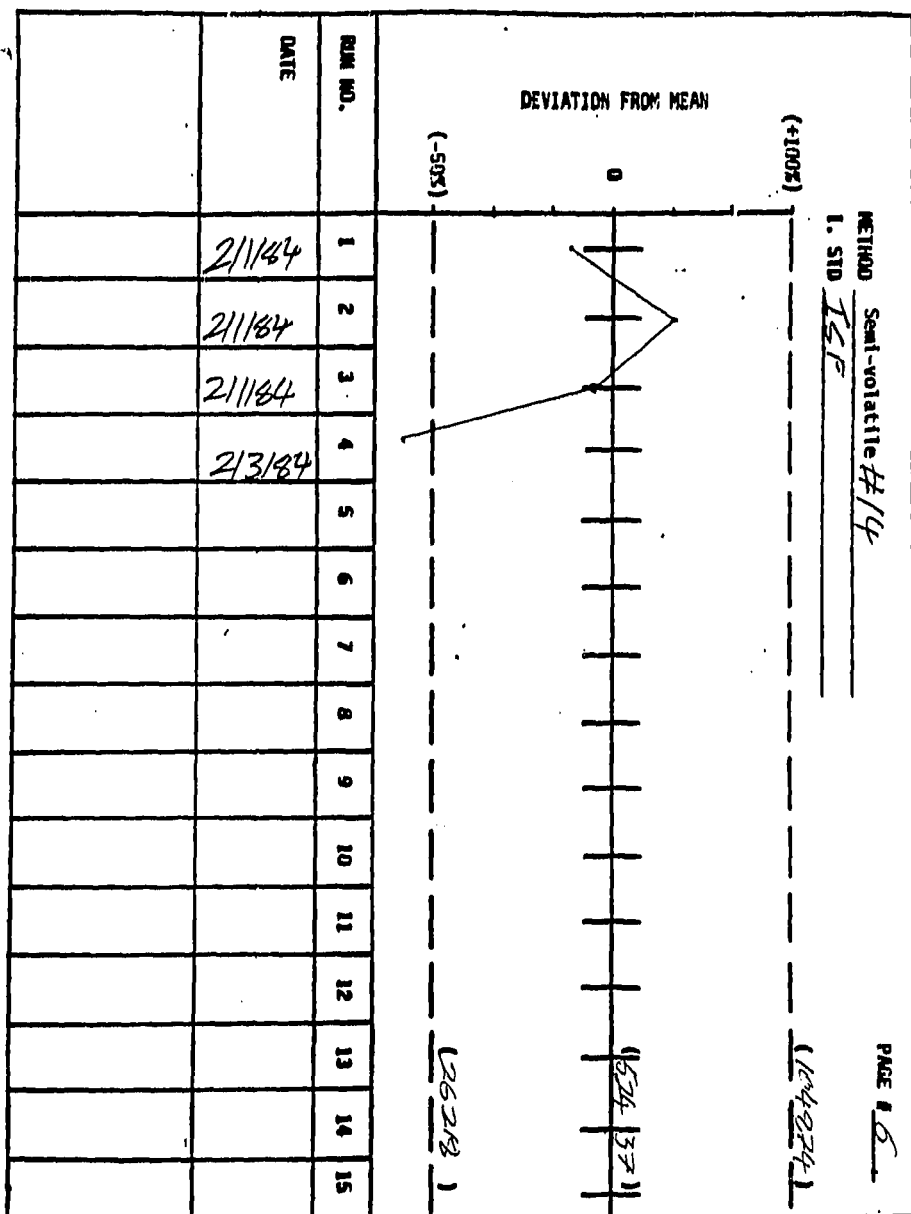
(36200)

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

0025505



025506



025507

003197

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. _____ Contractor CompuChem _____ Contract No. _____
 Instrument Identifier OWA #14 _____ Calibration Date 02/01/84
 Standard File HGB40203B14 _____ Date 02/03/84 Time 17:27
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.630	0.723	13.740		
BIS (2-CHLOROETHYL) ETHER	0.989	1.051	6.070		
2-CHLOROPHENOL	0.798	0.795	-0.370		
PHENOL	1.075	1.008	-6.430	*	
1,3-DICHLOROBENZENE	0.840	0.824	-1.920		
1,4-DICHLOROBENZENE	0.907	0.909	0.220	*	
1,2-DICHLOROBENZENE	0.791	0.779	-1.520		
BIS (2-CHLOROISOPROPYL) ETHER	0.212	0.203	-4.530		
HEXACHLOROETHANE	0.337	0.340	0.880		
N-NITROSODI-N-PROPYLAMINE	0.114	0.122	6.770		**
NITROBENZENE	0.365	0.343	-6.210		
ISOPHORONE	0.703	0.716	1.830		
2-NITROPHENOL	0.164	0.176	7.050	*	
2,4-DIMETHYLPHENOL	0.299	0.287	-4.090		
BIS (2-CHLOROETHOXY) METHANE	0.481	0.499	3.670		
2,4-DICHLOROPHENOL	0.248	0.248	0.000	*	
1,2,4-TRICHLOROBENZENE	0.313	0.322	2.830		
NAPHTHALENE	1.135	1.176	3.540		
HEXACHLOROBUTADIENE	0.148	0.150	1.340	*	
P-DICHLORO-D-CRESOL	0.337	0.338	0.290	*	
HEXACHLOROCYCLOPENTADIENE	0.075	0.073	-2.700		**
2,4,6-TRICHLOROPHENOL	0.184	0.156	-16.470	*	
2-CHLORONAPHTHALENE	1.281	1.312	2.390		
ACENAPHTHYLENE	1.262	1.166	-7.900		
DIMETHYL PHTHALATE	1.429	1.481	3.570		
2,6-DINITROTOLUENE	0.258	0.240	-7.220		
ACENAPHTHENE	1.072	1.168	8.570	*	
2,4-DINITROPHENOL	0.054	0.073	29.920		**
2,4-DINITROTOLUENE	0.365	0.387	5.850		
4-NITROPHENOL	0.130	0.105	-21.270		**
FLUORENE	1.282	1.241	-3.250		
4-CHLOROPHENYL PHENYL ETHER	0.499	0.518	3.730		
DIETHYL PHTHALATE	1.635	1.820	10.700		
4,6-DINITRO-D-CRESOL	0.093	0.148	45.640		
N-NITROSODIPHENYLAMINE	0.408	0.175	-79.930	*	
1,2-DIPHENYLHYDRAZINE	1.789	1.775	-0.780		
4-BROMOPHENYL PHENYL ETHER	0.173	0.178	2.840		
HEXACHLOROBENZENE	0.233	0.240	2.950		
PENTACHLOROPHENOL	0.113	0.133	16.260	*	
PHENANTHRENE	1.196	1.168	-2.360		
ANTHRACENE	0.947	0.964	1.770		
DI-N-BUTYL PHTHALATE	1.629	1.779	8.800		
FLUORANTHENE	1.108	1.200	7.970	*	
PYRENE	1.689	1.723	1.990		
BENZIDINE	0.000	0.000	0.000		**

Av. - 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 **)

025508

31

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Case No. _____ Contractor CompuChem Contract No. _____
 Document Identifier DWA 814 Calibration Date 02/01/84
 Standard File HGB40203B14 Date 02/03/84 Time 17:27
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.976	0.992	1.620		
BENZO (A) ANTHRACENE	1.434	1.279	-11.420		
CHRYSENE	1.111	1.090	-1.900		
3,3'-DICHLOROBENZIDINE	0.054	0.073	29.920		
BIS (2-ETHYLHEXYL) PHTHALATE	1.330	1.276	-4.140		
DI-N-OCTYL PHTHALATE	2.145	2.226	3.700	*	
3,4-BENZOFUORANTHENE	1.274	1.273	-0.070		
BENZO (K) FLUORANTHENE	0.886	1.028	14.830		
BENZO (A) PYRENE	1.017	0.996	-2.080	*	
INDENO (1,2,3-CD) PYRENE	0.928	0.787	-16.440		
DIBENZO (A,H) ANTHRACENE	0.842	0.755	-10.890		
BENZO (BHI) PERYLENE	0.911	0.753	-18.990		
ANILINE	1.007	0.783	-25.020		
BENZOIDIC ACID	0.137	0.162	16.720		
BENZYL ALCOHOL	0.466	0.426	-8.960		
4-CHLORDANILINE	0.128	0.165	25.250		
DIBENZOFURAN	1.707	1.753	2.650		
2-METHYLNAPHTHALENE	0.234	0.243	3.770		
O-CRESOL	0.619	0.583	-5.990		
P-CRESOL	0.790	0.650	-7.400		
1-NITROANILINE	0.035	0.045	25.000		
3-NITROANILINE	0.467	0.523	11.310		
4-NITROANILINE	0.019	0.011	-53.330		
2,4,5-TRICHLOROPHENOL	0.150	0.154	2.630		

- * - 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 **)

nn025503

Initial Calibration Data - Semivolatile HSL Compounds

Page 1

Case No. _____

Contractor CompuChem

Contract No. _____

Instrument Identifier DNA 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
N-NITROSODIMETHYLAMINE	0.409	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	0.857	0.891	0.840	
1,4-DICHLOROBENZENE	1.004	0.950	0.919	0.852	0.907	
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	
p-THALENE	1.004	1.113	1.160	1.131	1.135	
HEXACHLOROBUTADIENE	1.046	0.140	0.153	0.152	0.149	
p-CHLORO-m-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	0.986	0.215	0.268	0.291	0.258	
ACENAPHTHENE	1.005	1.107	1.051	1.059	1.072	
2,4-DINITROPHENOL	1.019	0.040	0.050	0.073	0.035	*
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	0.282	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	
PICLINANTHRENE	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	
PHENOL	0.884	1.827	1.691	1.550	1.689	
BENZODIOLINE	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

025510
003700

Initial Calibration Data - Semivolatile HSL Compounds

Page 2

Case No. _____ Contractor CompuChem Contract No. _____Instrument Identifier DMA #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
BUTYL BENZYL PHTHALATE	0.960	1.014	0.953	0.961	0.976	
BENZO (A) ANTHRACENE	0.998	1.425	1.442	1.436	1.434	
CHRYSENE	1.002	1.196	1.070	1.066	1.111	
3,3'-DICHLOROBENZIDINE	1.004	0.057	0.054	0.051	0.054	
BIS (2-ETHYLHEXYL) PHTHALATE	1.019	1.418	1.299	1.274	1.330	
D1-N-OCTYL PHTHALATE	1.075	2.243	2.046	2.148	2.145	
3,4-BENZOFUORANTHENE	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	
DIFURAN	1.029	1.709	1.638	1.775	1.707	
2-NITROFLUORANTHENE	1.145	0.222	0.245	0.236	0.234	
O-CRESOL	1.092	0.639	0.634	0.584	0.619	
P-CRESOL	1.130	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	

Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor

31

002201
025511

Semi-Volatile

Case 2333

1	19266	109A15	2/22/84	1
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
			003-412	025512
			31	

Internal Standard Response Verification Data Sheet

PAGE 1

Comp. No. 2333 Contractor CompuChem Contract No. 68-01-6866Instrument I.D. OWA_015 Q.C. Report No. _____

Sample/Run	Date	19A		19B		19C		19D		19E		19F		R1	R2	R3	R4	R5
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT					
H1840109A15	010984	46621	.339	99352	.422	47303	.542	76466	.422	44018	.832	41227	1.000	.469	2.100	.619	1.737	1.068
H8B40109A15	010984	54274	.339	109833	.422	56275	.542	91749	.422	53073	.831	57294	1.000	.494	1.952	.613	1.729	.926
H1840109A15	010984	55337	.339	106726	.422	53231	.542	86509	.422	48557	.832	48294	1.000	.518	2.005	.615	1.782	1.005
GR019266C15	020484	31540	.335	79639	.424	42859	.553	70843	.424	37850	.861	10442	1.000	.396	1.858	.605	1.872	3.625

R1 = (Resp 19A/Resp 19B)

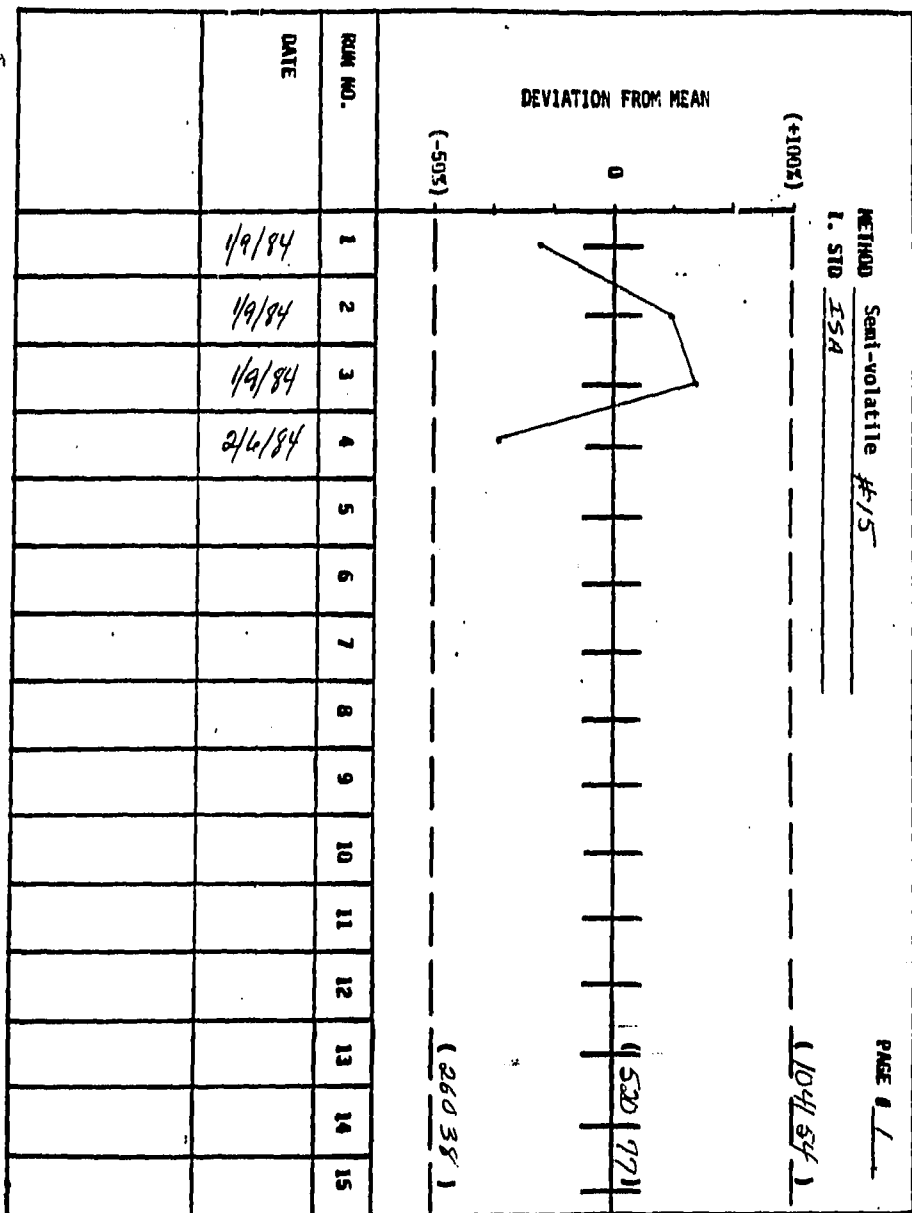
R2 = (Resp 19B/Resp 19C)

R3 = (Resp 19C/Resp 19D)

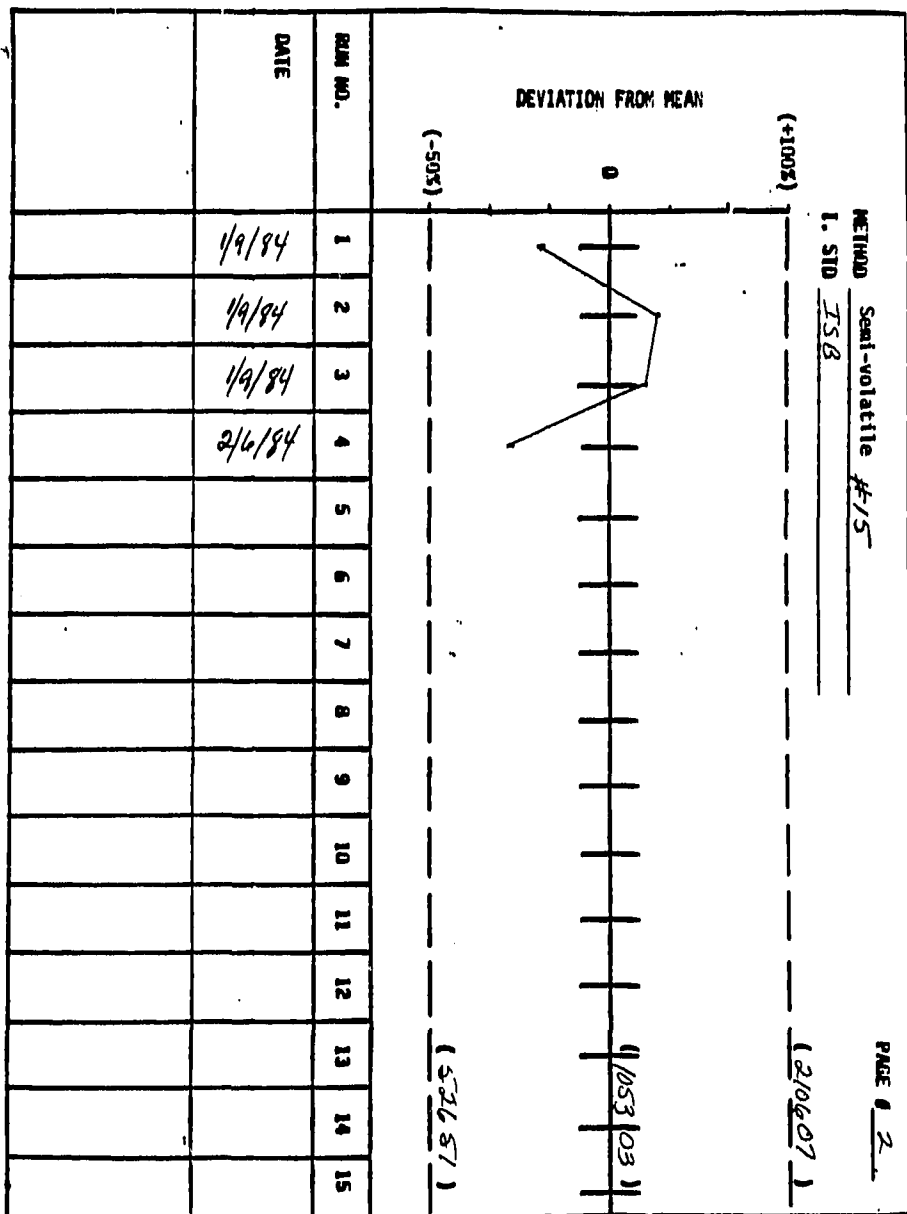
R4 = (Resp 19D/Resp 19E)

R5 = (Resp 19E/Resp 19F)

0000025513



003207 025514



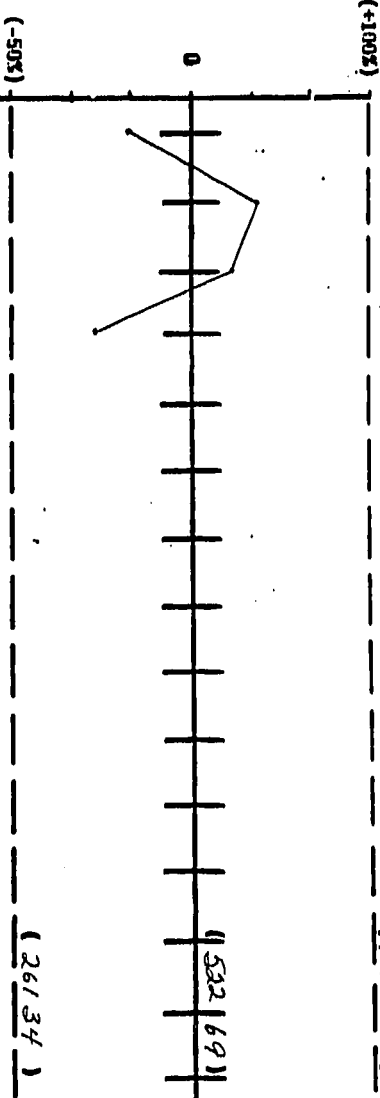
00285515

METHOD Semi-volatile #15
 I. STD ISC

PAGE 3

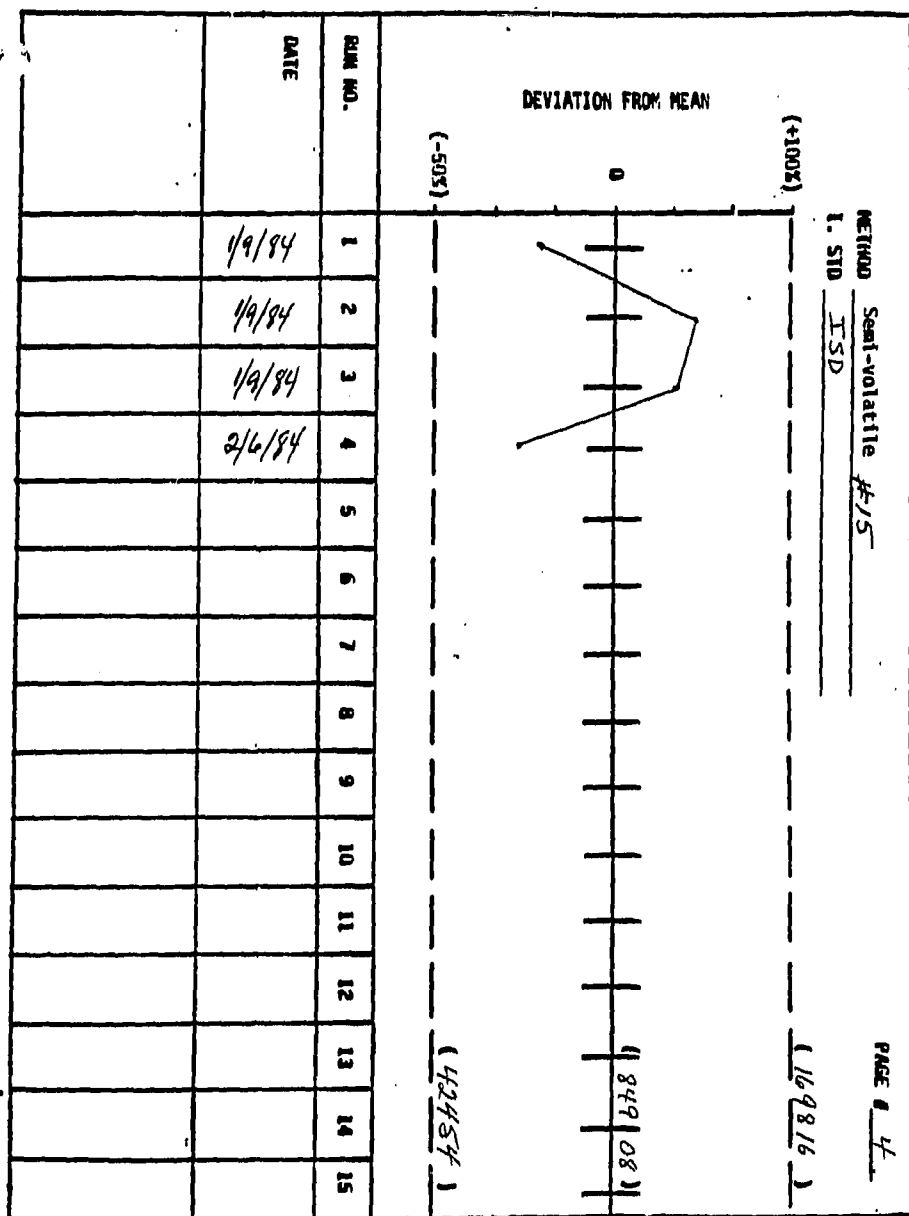
(104539)

DEVIATION FROM MEAN



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

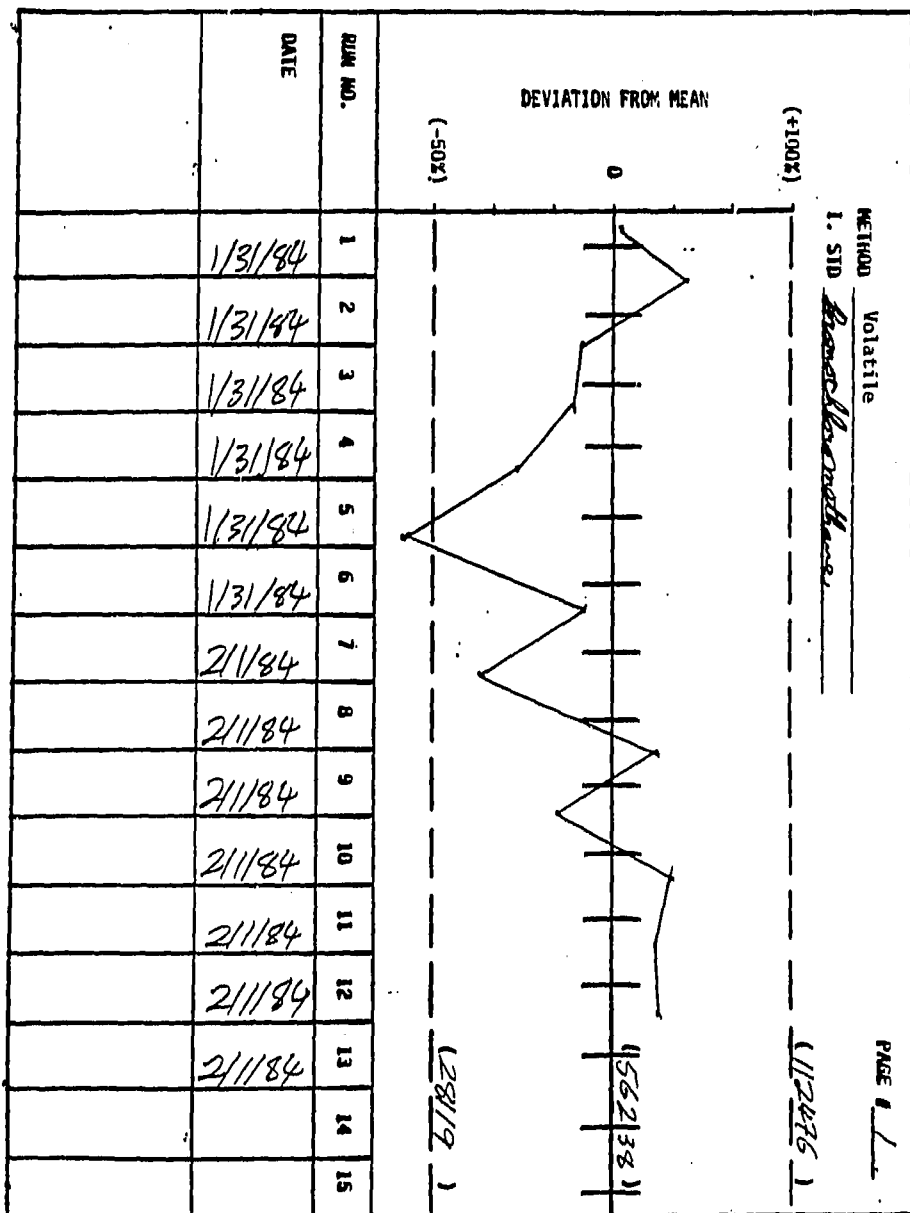
025516



000025517

Volatile

	Case 2333		
1	19270	131812	2/22/84
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
		31	0255 8



000000 025513

Internal Standard Response Verification Data Sheet

PAGE 1

Case No. _____ Contractor CompuChem Contract No. 63-01-6866Instrument I.D. DNA-112 G.C. Report No. _____

Sample/Run	Date	ISA		ISE		IEC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RR1	Resp Area	RR1	Resp Area	RR1	Resp Area	RR1	Resp Area	RR1	Resp Area	RR1					
DT840131A12	013184	56419	.957	56419	.957	56419	1.000							1.000	1.000			
BB840131A12	013184	58967	1.000	58967	1.000	58967	1.000							1.000	1.000			
BUR40131A12	013184	53328	1.000	53328	1.000	53328	1.000							1.000	1.000			
BUR40131B12	013184	52561	1.000	52561	1.000	52561	1.000							1.000	1.000			
CK15270812	013184	41529	.421	25817	.827	53671	1.000							1.675	.481			
BH019258F12	013184	26917	.430	15650	.827	25573	1.000							1.491	.713			
BB841201A12	020184	54077	1.000	54077	1.000	54077	1.000							1.000	1.000			
BH019436A12	020184	35276	.421	23945	.827	47056	1.000							1.611	.536			
VH019437A12	020184	61333	.421	37541	.827	69553	1.000							1.666	.540			
VH019438A12	020184	51066	.421	31361	.827	53125	1.000							1.623	.521			
VH019439A12	020184	48967	.422	30829	.823	50242	1.000							1.723	.456			
VH019440A12	020184	45771	.422	35427	.823	51111	1.000							1.663	.467			
VH019441A12	020184	47156	.421	40553	.827	52155	1.000							1.665	.467			

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

 003210
 025520

Calibration Check Report - Volatile HSL Compounds

Page 1

Case No. _____ Contractor CompuChem Contract No. 67-01-6966
 Instrument Identifier DNA #12 Calibration Date 01/31/84
 Standard File BUB40131B12 Date 01/31/84 Time 21:02
 Minimum RF for CCC is 20.00 Minimum RF for SPCC is 0.300

Compound	Avg RF	RF	ZD	CCC	SPCC
METHYL CHLORIDE	0.633	0.748	16.650		**
METHYL BROMIDE	1.577	1.948	21.040		
VINYL CHLORIDE	1.019	1.174	14.130	*	
CHLOROETHANE	0.509	0.633	21.710		
METHYLENE CHLORIDE	1.317	1.640	21.640		
TRICHLOROFLUOROMETHANE	1.907	1.938	1.610		
1,1-DICHLOROETHYLENE	0.905	0.883	-2.460	*	
1,1-DICHLOROETHANE	0.486	0.499	2.630		**
1,2-TRANS-DICHLOROETHYLENE	1.020	1.019	-0.090		
CHLOROFORM	1.999	2.070	3.480	*	
1,2-DICHLOROETHANE	1.108	1.098	-0.900		
1,1,1-TRICHLOROETHANE	1.539	1.510	-1.900		
CARBON TETRACHLORIDE	1.412	1.356	-4.040		
DICHLORODIBROMOMETHANE	0.188	0.177	-6.020	*	
1,2-DICHLOROPROPANE	0.370	0.378	2.130		
TRANS-1,3-DICHLOROPROPYLENE	1.890	1.880	-0.530		
TRICHLOROETHYLENE	1.684	1.614	-4.240		
CHLORODIBROMOMETHANE	1.603	1.432	-11.260		
BENZENE	3.340	3.280	-1.810		
1,1,2-TRICHLOROETHANE	1.247	1.154	-7.740		
CIS-1,3-DICHLOROPROPYLENE	0.955	0.906	-5.260		
2-BROMOETHYL VINYL ETHER	0.378	0.362	-4.320		**
BROMOFORM	1.299	1.152	-11.900		**
1,1,2,2-TETRACHLOROETHANE	2.320	2.187	-5.900		**
TETRACHLOROETHYLENE	1.507	1.378	-8.940		
TOLUENE	2.168	2.242	3.350	*	
CHLOROBENZENE	3.116	3.306	5.910		**
ETHYLBENZENE	1.805	1.950	4.450		
ACETONE (2-PROPANONE)	0.062	0.066	-21.620		
2-BUTANONE	0.127	0.109	-15.250		
CARBON DISULFIDE	2.832	4.126	37.190		
2-HEXANONE	0.526	0.480	-9.140		
4-METHYL-2-PENTANONE	0.636	0.600	-5.620		
STYRENE	3.015	3.996	27.980		
VINYL ACETATE	0.617	0.988	18.640		
D-XYLENE	1.827	2.437	28.610		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

ZL - Percent Difference

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

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

00025521

330

Contract No. 68-01-6866
Calibration Date 11/17/84
Date 02/01/84 Time 08127

Minimum fee for EPEC is C.300.

[illegible]

000000.2

025522

31

Case No. _____

Contractor CopeShenContract No. 68-01-6866Present Identifier OWA #12

Calibration Date - 01/31/64

Minimum Avg RF for SPCC is 0.050

Compound	Avg RRT	RF (20)	RF (100)	RF (200)	Avg RF	SPCC
METHYL CHLORIDE	0.189	0.565	0.527	0.805	0.472	+
METHYL BROMIDE	0.227	1.438	1.334	1.959	1.578	
VINYL CHLORIDE	0.188	0.928	0.632	1.291	1.019	
CHLOROETHANE	0.462	0.464	0.422	0.641	0.509	
METHYLENE CHLORIDE	0.482	1.551	0.977	1.421	1.317	
TRICHLOROFLUOROMETHANE	0.857	1.844	1.427	2.235	1.907	
1,1-DICHLOROETHYLENE	0.982	0.917	0.812	0.993	0.925	
1,1-DICHLOROETHANE	1.152	0.505	0.421	0.522	0.494	+
1,2-TRANS-DICHLOROETHYLENE	1.157	1.742	0.897	1.723	1.719	
CHLOROFORM	1.207	2.111	1.744	2.122	1.799	
1,2-DICHLOROETHANE	1.221	1.147	0.955	1.234	1.106	
1,1,1-TRICHLOROETHANE	1.412	1.587	1.343	1.415	1.559	
DIBROMO TETRACHLORIDE	1.422	1.441	1.222	1.504	1.417	
DICHLORODIFLUOROMETHANE	1.477	0.191	0.141	0.211	0.182	
1,2-DICHLOROPROPANE	1.477	1.551	0.324	0.359	0.374	
TRANS-1,2-DICHLOROPROPYLENE	1.641	1.977	1.427	2.074	1.879	
TRICHLOROETHYLENE	1.712	1.720	1.422	1.551	1.454	
TRICHLOROBROMOMETHANE	1.777	1.555	1.321	1.531	1.603	
BENZENE	1.777	2.455	2.594	2.747	2.546	
1,1,2-TRICHLOROETHANE	1.781	1.245	1.047	1.415	1.247	
DIB-1,3-DICHLOROPROPYLENE	1.781	1.545	0.815	1.122	0.855	
2-CHLOROETHYL VINYL ETHER	1.897	0.449	0.111	0.576	0.379	+
BROMOFORM	2.047	1.957	1.022	1.477	1.285	+
1,1,1,2-TETRACHLOROETHANE	2.049	2.474	1.944	2.505	2.320	+
TETRAFLUOROETHYLENE	2.049	1.477	1.321	1.721	1.577	
TOLUENE	2.227	2.245	1.557	2.345	2.165	
CHLOROBENZENE	2.231	2.711	2.657	3.365	3.114	+
ETHYLENE DIBROMIDE	2.745	1.521	1.477	2.027	1.644	
ACETONE 10-PROPANONE	2.757	0.051	0.077	0.101	0.082	
2-BUTANONE	1.245	0.127	0.115	0.135	0.127	
CARBON DISULFIDE	2.873	2.185	2.757	3.545	2.872	
2-HEXANONE	2.927	0.511	0.481	0.581	0.526	
4-METHYL-2-PENTANONE	2.955	0.617	0.552	0.707	0.434	
STYRENE	3.255	2.595	2.874	3.572	3.015	
VINYL ACETATE	1.455	0.645	0.730	1.075	0.917	
D-XYLENE	3.417	1.545	1.715	2.197	1.827	

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 +)

31

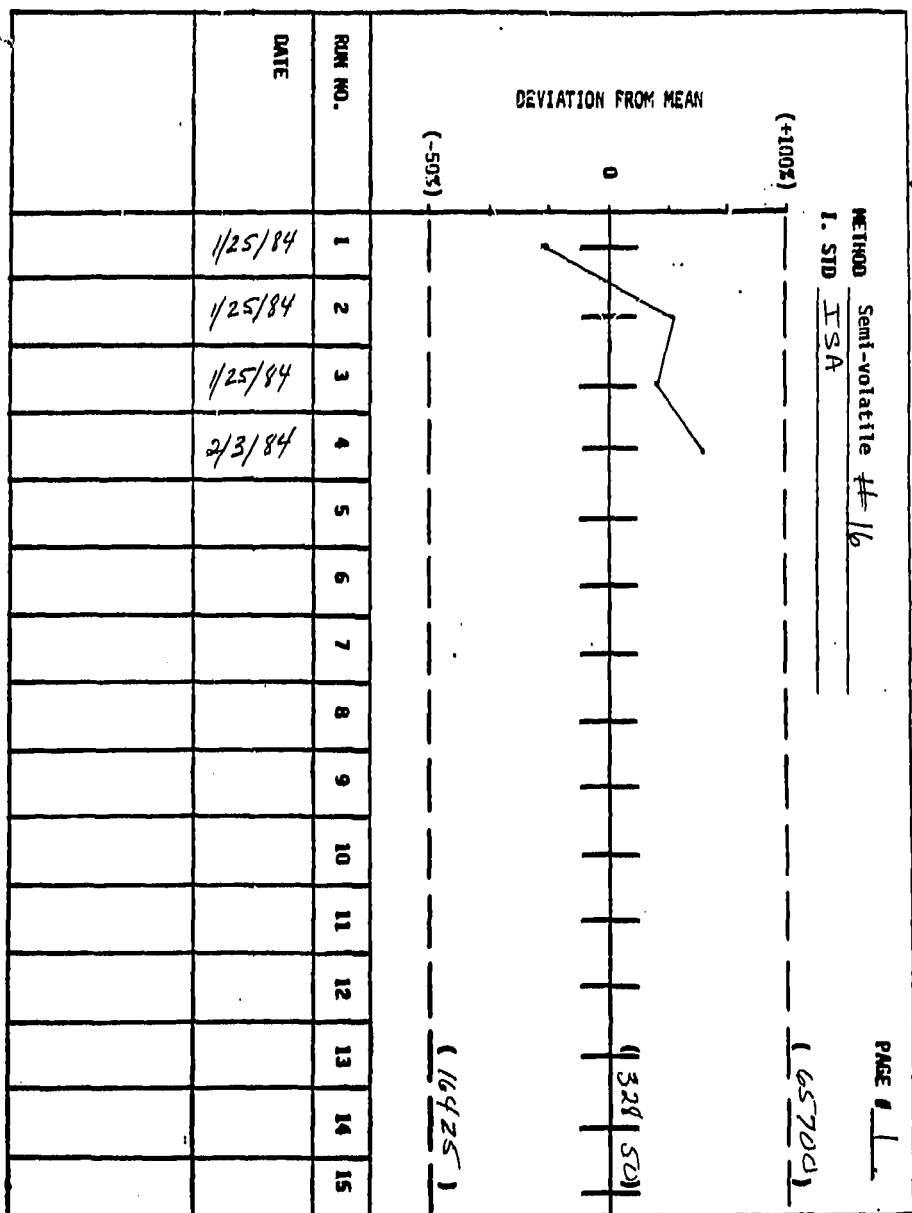
000013
025523

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

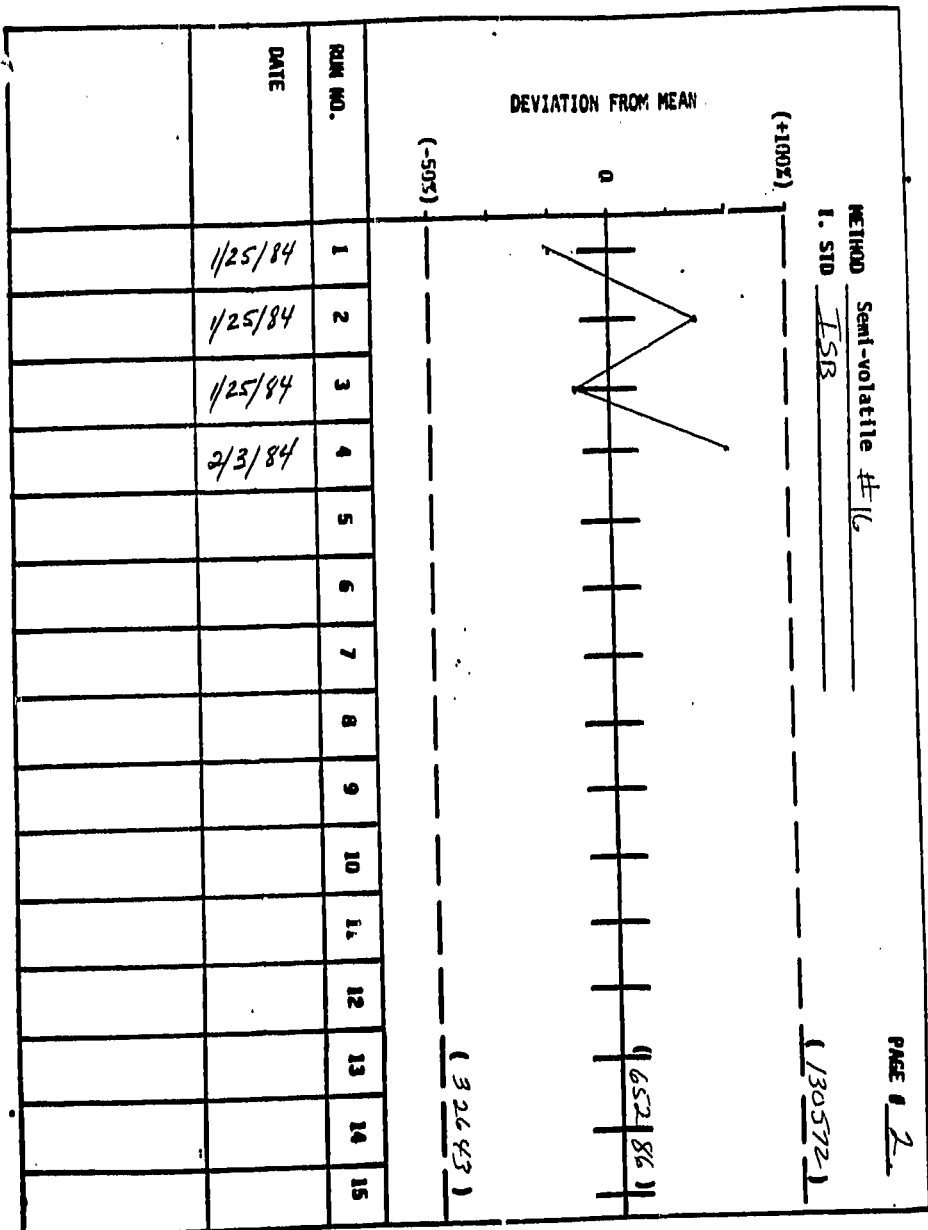
This section includes Internal Standard Response Verification Control Charts (as required in Exhibit B, page 40 of 42, Form XI); Internal Standard Response Verification Report (as required in Exhibit B, page 29 of 42, Form VIII); Initial Calibration Data (as required in Exhibit B, page 32 of 42, Form 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.

F

00321025524



025526



025527

003217

METHOD Semi-volatile #6
I. STD ISC

(76/17)

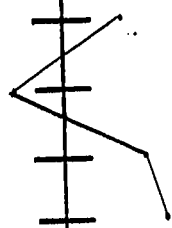
DEVIATION FROM MEAN

(+100%)

0

(-50%)

(19029)



RUN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DATE	1/25/84	1/25/84	1/25/84	2/3/84											

002018 025528

METHOD Semi-volatile #16
 I. STD ISD

PAGE 4

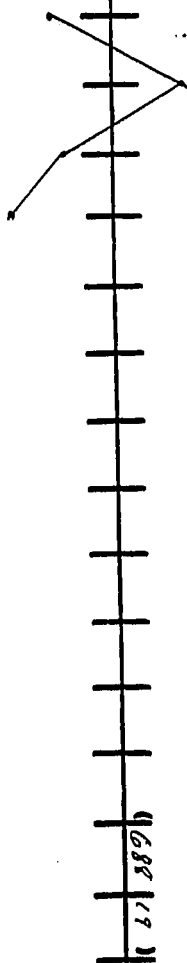
(137638)

DEVIATION FROM MEAN

(+100%)

0

(-50%)



(34409)

RUN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DATE	1/25/84	1/25/84	1/25/84	2/3/84											

00 025523

METHOD Semi-volatile #16

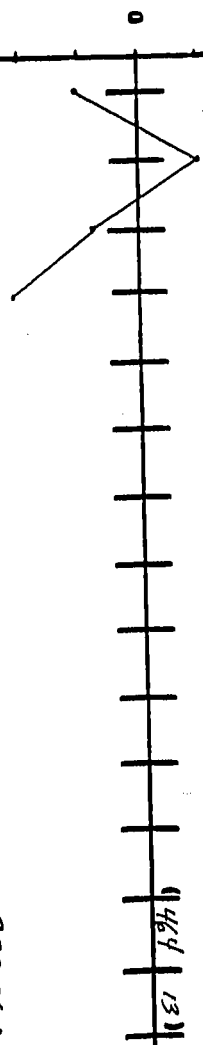
1. STD ISE

(928.26)

DEVIATION FROM MEAN

(-50%)

(+100%)

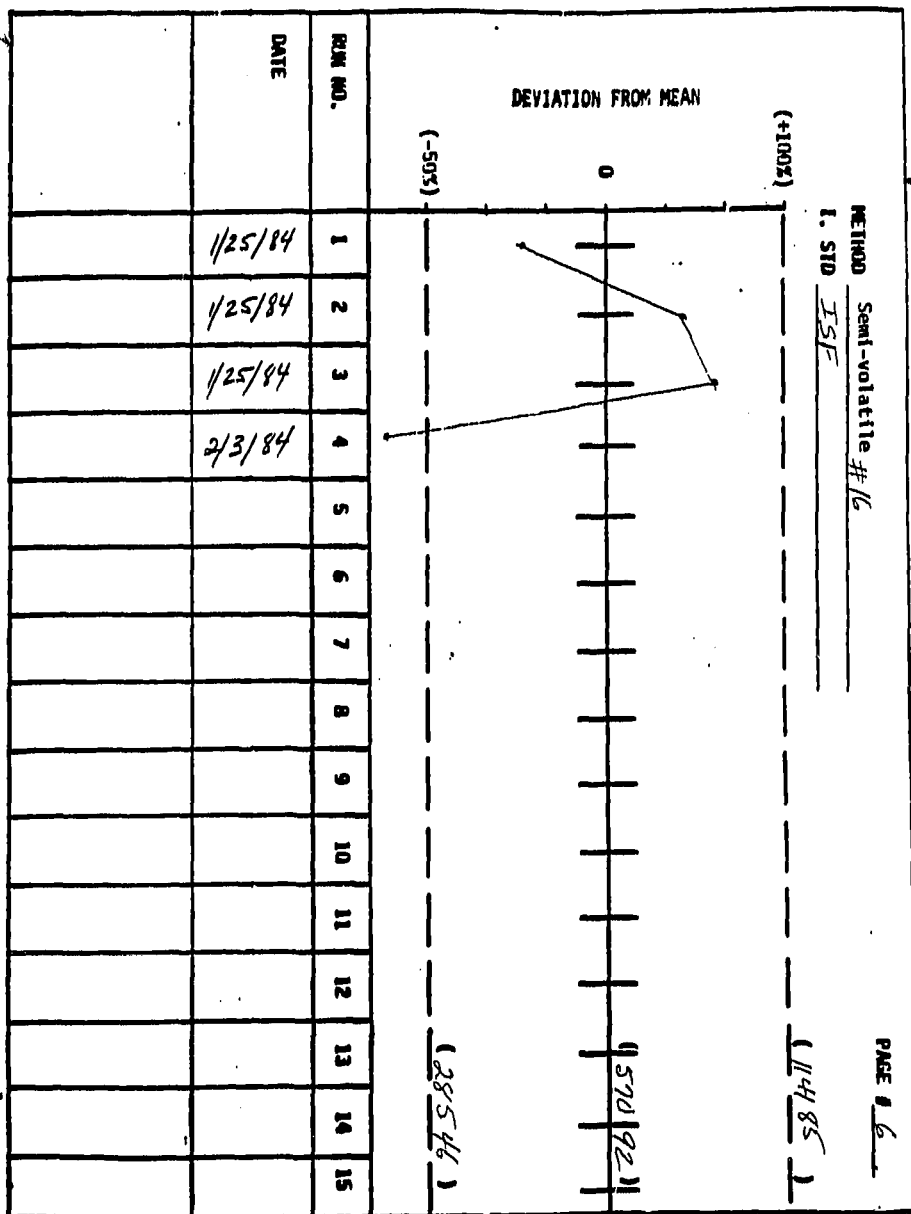


(232.06)

RUN NO.	DATE
1	1/25/84
2	1/25/84
3	1/25/84
4	2/3/84
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

003220

025500



025531
003021

Internal Standard Response Verification Data Sheet

PAGE 1

C No. 2333 Contractor CompuChem Contract No. 68-01-6866Instrument I.D. DMA #16 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					
NIB40125A16	012584	29403	.320	59875	.411	38504	.543	66548	.411	45317	.857	56605	1.000	.491	1.333	.579	1.468	.896
H6B40125A16	012584	35324	.320	70724	.410	36414	.543	72133	.410	48101	.857	59312	1.000	.499	1.942	.505	1.500	.808
HHB40125A16	012584	33823	.320	65239	.410	39256	.543	67776	.410	45822	.857	61161	1.000	.518	1.662	.579	1.479	.749
GR019265B16	020384	36500	.319	71049	.411	40171	.546	60545	.411	30939	.864	25270	1.000	.514	1.769	.663	1.957	1.224

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)

025532⁰⁰³22

F 31

No. 2333 Contractor CompChem Contract No. 68-01-6866
 Instrument Identifier ONA 816 Calibration Date 01/25/84
 Standard File MS840203B16 Date 02/03/84 Time 18:04
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.283	0.543	62.950		
BIS (2-CHLOROETHYL) ETHER	0.863	0.828	-4.130		
2-CHLOROPHENOL	0.700	0.672	-4.080		
PHENOL	0.943	0.837	-11.910		
1,3-DICHLOROBENZENE	0.822	0.831	1.080		
1,4-DICHLOROBENZENE	0.887	0.908	2.330		
1,2-DICHLOROBENZENE	0.817	0.813	-0.490		
BIS (2-CHLOROISOPROPYL) ETHER	0.241	0.228	-5.540		
HEXACHLOROETHANE	0.441	0.346	-24.140		
N-NITROSODI-N-PROPYLAMINE	0.121	0.134	10.190		**
NITROBENZENE	0.378	0.345	-9.120		
ISOPHORONE	0.810	0.840	3.630		
2-NITROPHENOL	0.200	0.204	1.980		
2,4-DIMETHYLPHENOL	0.303	0.297	-2.000		
BIS (2-CHLOROETHOXY) METHANE	0.498	0.477	-4.300		
2,4-DICHLOROPHENOL	0.309	0.322	4.120		
1,2,4-TRICHLOROBENZENE	0.378	0.402	6.150		
NAPHTHALENE	1.107	1.104	-0.270		
1-CHLOROBUTADIENE	0.251	0.227	-10.040		
1-CHLORO-N-CRESOL	0.414	0.382	-8.040		
HEXACHLOROXYCLOPENTADIENE	0.105	0.096	-8.950		**
2,4,6-TRICHLOROPHENOL	0.272	0.230	-16.730		
2-CHLORONAPHTHALENE	1.189	1.129	-5.170		
ACENAPHTHYLENE	1.665	1.326	-22.640		
DIMETHYL PHTHALATE	1.474	1.350	-8.780		
2,6-DINITROTOLUENE	0.288	0.287	-0.340		
ACENAPHTHENE	1.109	1.067	-3.860		
2,4-DINITROPHENOL	0.113	0.062	-58.280		**
2,4-DINITROTOLUENE	0.463	0.377	-26.470		
4-NITROPHENOL	0.209	0.100	-70.550		**
FLUORENE	1.297	1.223	-5.870		
4-CHLOROPHENYL PHENYL ETHER	0.575	0.510	-11.980		
DIETHYL PHTHALATE	1.808	1.461	-21.220		
4,6-DINITRO-D-CRESOL	0.186	0.137	-30.340		
N-NITROSODIPHENYLAMINE	0.604	0.329	-58.940		
1,2-DIPHENYLHYDRAZINE	1.883	1.721	-8.990		
4-BROMOPHENYL PHENYL ETHER	0.209	0.196	-6.410		
HEXACHLOROBENZENE	0.264	0.240	-9.520		
PENTACHLOROPHENOL	0.116	0.100	-14.810		
PHENANTHRENE	1.088	1.056	-2.980		
ANTHRACENE	0.889	0.965	8.190		
DI-N-BUTYL PHTHALATE	1.535	1.482	-3.510		
FLUORANTHENE	1.128	1.016	-10.440		
PYRENE	1.578	1.705	7.730		
PERIDINE	0.009	0.000	-200.000		**

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 **)

025533.3

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Contract No. _____ Contractor CompuChem _____ Contract No. _____
 Instrument Identifier DNA 816 _____ Calibration Date 01/25/84
 Standard File HSB40203B16 _____ Date 02/03/84 Time 18:04
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.935	0.965	1.040		
BENZO (A) ANTHRACENE	1.451	1.278	-12.670		
CHRYSENE	1.075	1.196	10.650		
3,3'-DICHLOROBENZIDINE	-0.000	0.000	0.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.258	1.480	16.210		
DI-N-OCTYL PHTHALATE	2.241	2.576	13.900		
3,4-BENZOFUORANTHENE	1.228	1.230	0.160		
BENZO (K) FLUORANTHENE	0.865	1.176	30.470		
BENZO (A) PYRENE	0.980	1.053	7.180		
INDENO (1,2,3-CD) PYRENE	0.853	0.695	-20.410		
DIBENZO (A,M) ANTHRACENE	0.767	0.594	-25.420		
BENZO (BHI) PERYLENE	0.886	0.610	-36.890		
ANILINE	0.948	0.815	-15.080		
BENZOIC ACID	0.175	0.084	-70.270		
BENZYL ALCOHOL	0.436	0.396	-9.610		
4-CHLORANILINE	0.380	0.308	-20.930		
DIBENZOFURAN	1.775	1.557	-13.080		
2-METHYLNAPHTHALENE	0.465	0.334	-32.790		
O-CRESOL	0.646	0.497	-26.070		
CSOL	0.685	0.561	-19.900		
2-NITROANILINE	0.064	0.167	89.170		
3-NITROANILINE	0.431	0.378	-13.100		
4-NITROANILINE	0.068	0.023	-98.900		
2,4,5-TRICHLOROPHENOL	0.205	0.240	15.730		

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 **)

063324
025534

31

Ca. No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier OWA #16

Calibration Date - 01/25/84

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	0.502	0.199	0.322	0.329	0.283	
BIS (2-CHLOROETHYL) ETHER	0.957	0.937	0.861	0.790	0.863	
2-CHLOROPHENOL	0.966	0.710	0.715	0.675	0.760	
PHENOL	0.945	0.946	0.978	0.904	0.943	
1,3-DICHLOROBENZENE	0.992	0.869	0.828	0.770	0.822	
1,4-DICHLOROBENZENE	1.004	0.969	0.872	0.820	0.887	
1,2-DICHLOROBENZENE	1.043	0.887	0.812	0.753	0.817	
BIS (2-CHLOROISOPROPYL) ETHER	1.071	0.273	0.234	0.217	0.241	
HEXACHLOROETHANE	1.108	0.473	0.437	0.412	0.441	
N-NITROSODI-N-PROPYLAMINE	1.102	0.122	0.121	0.121	0.121	
NITROBENZENE	1.132	0.382	0.382	0.370	0.378	
ISOPHORONE	0.925	0.806	0.815	0.808	0.810	
2-NITROPHENOL	0.938	0.189	0.206	0.207	0.201	
2,4-DIMETHYLPHENOL	0.948	0.300	0.301	0.309	0.303	
BIS (2-CHLOROETHOXY) METHANE	0.965	0.491	0.500	0.502	0.498	
2,4-DICHLOROPHENOL	0.981	0.319	0.302	0.307	0.309	
1-TRICHLOROBENZENE	0.993	0.392	0.373	0.370	0.378	
METHYLENE	1.003	1.146	1.078	1.096	1.107	
HEXACHLOROBUTADIENE	1.036	0.263	0.242	0.249	0.251	
P-CHLORO-M-CRESOL	1.110	0.403	0.430	0.408	0.414	
HEXACHLOROCYCLOPENTADIENE	1.170	0.083	0.108	0.124	0.105	
2,4,6-TRICHLOROPHENOL	1.187	0.233	0.254	0.331	0.273	
2-CHLORONAPHTHALENE	0.920	1.129	1.296	1.141	1.189	
ACENAPHTHYLENE	0.979	1.481	1.888	1.826	1.668	
DIMETHYL PHTHALATE	0.972	1.329	1.650	1.442	1.474	
2,4-DINITROTOLUENE	0.982	0.269	0.340	0.256	0.289	
ACENAPHTHENE	1.004	1.060	1.228	1.040	1.109	
2,4-DINITROPHENOL	1.015	0.091	0.121	0.129	0.113	
2,4-DINITROTOLUENE	1.035	0.395	0.525	0.470	0.464	
4-NITROPHENOL	1.033	0.230	0.100	0.298	0.209	
FLUORENE	1.075	1.265	1.399	1.227	1.297	
4-CHLOROPHENYL PHENYL ETHER	1.076	0.567	0.618	0.542	0.576	
DIETHYL PHTHALATE	1.070	1.699	1.990	1.734	1.808	
4,6-DINITRO-O-CRESOL	1.092	0.177	0.198	0.184	0.186	
N-NITROSODIPHENYLAMINE	1.094	0.768	0.715	0.328	0.604	
1,2-DIPHENYLHYDRAZINE	1.098	1.890	1.971	1.788	1.883	
4-BROMOPHENYL PHENYL ETHER	0.949	0.211	0.203	0.218	0.209	
HEXACHLOROBENZENE	0.965	0.278	0.258	0.256	0.244	
PENTACHLOROPHENOL	0.987	0.095	0.127	0.127	0.116	
PHENANTHRENE	1.003	1.099	1.073	1.093	1.088	
ANTHRACENE	1.008	0.969	0.870	0.828	0.889	
DI-N-BUTYL PHTHALATE	1.076	1.594	1.544	1.468	1.534	
1-NAPHTHENE	1.142	1.177	1.121	1.086	1.128	
1-NAPHTHENE	0.892	1.705	1.558	1.471	1.578	
MENZIDINE	0.906	0.009	0.010	0.009	0.009	

Avg RRT - Average Relative Retention Time

RF - Response Factor (amount of nanograms)

Avg RF - Average Response Factor

002225
025535

31

Initial Calibration Data - Semivolatile HSL Compounds

Page 2

D. No. _____

Contractor __CompuChem__

Contract No. _____

Instrument Identifier __OWA #16__

Calibration Date - 01/25/84

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	0.953	0.956	0.964	0.944	0.955
BENZO (A) ANTHRACENE	0.998	1.455	1.422	1.477	1.451
CHRYSENE	1.002	1.244	1.012	0.970	1.076
3,3'-BICHLOROBENZIDINE	0.000	0.000	0.000	0.000	0.000
BIS (2-ETHYLHEXYL) PHTHALATE	1.006	1.291	1.253	1.231	1.258
DI-N-OCTYL PHTHALATE	1.071	2.328	2.391	2.005	2.241
3,4-BENZOFUORANTHENE	0.961	1.327	1.234	1.123	1.228
BENZO (K) FLUORANTHENE	0.964	1.054	0.751	0.791	0.866
BENZO (A) PYRENE	1.003	1.153	0.949	0.837	0.980
INDENO (1,2,3-CD) PYRENE	1.203	1.023	0.781	0.756	0.853
DIBENZO (A,H) ANTHRACENE	1.208	0.947	0.899	0.654	0.767
BENZO (GHI) PERYLENE	1.260	1.092	0.793	0.773	0.886
ANILINE	0.944	0.894	1.016	0.934	0.948
BENZOIC ACID	0.989	0.170	0.190	0.165	0.175
BENZYL ALCOHOL	1.039	0.397	0.478	0.432	0.436
4-CHLORANILINE	1.021	0.328	0.480	0.401	0.380
AZOFURAN	1.026	1.678	1.962	1.686	1.775
2-METHYLNAPHTHALENE	1.129	0.478	0.452	0.446	0.465
O-CRESOL	1.068	0.697	0.640	0.600	0.646
P-CRESOL	1.100	0.702	0.698	0.656	0.685
2-NITROANILINE	1.020	0.167	0.016	0.010	0.084
3-NITROANILINE	0.943	0.398	0.476	0.418	0.431
4-NITROANILINE	1.087	0.034	0.103	0.067	0.068
2,4,5-TRICHLOROPHENOL	1.195	0.228	0.201	0.185	0.205

Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor

31

025536

1927D

32

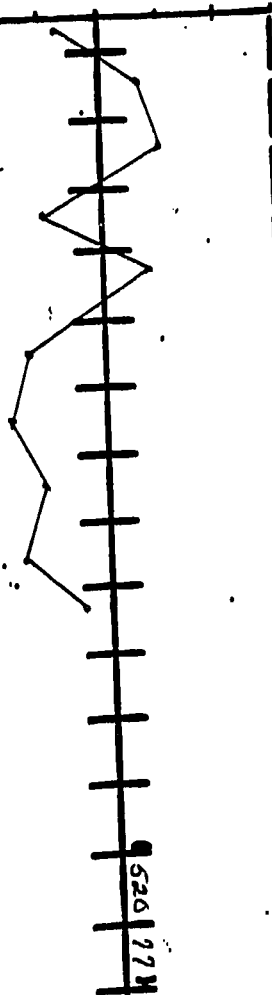
025537

RETIRED SAIL-MAKER DON # 15
1. STD ISSA

1.50 - ISM

104154

REVELATION FROM MEAN



1260381

DATE	AMOUNT	REMARKS
1/9/84	1	
1/9/84	2	
1/9/84	3	
1/27/84	4	
1/27/84	5	
1/27/84	6	
1/27/84	7	
1/27/84	8	
1/27/84	9	
1/27/84	10	
	11	
	12	
	13	
	14	
	15	

003003

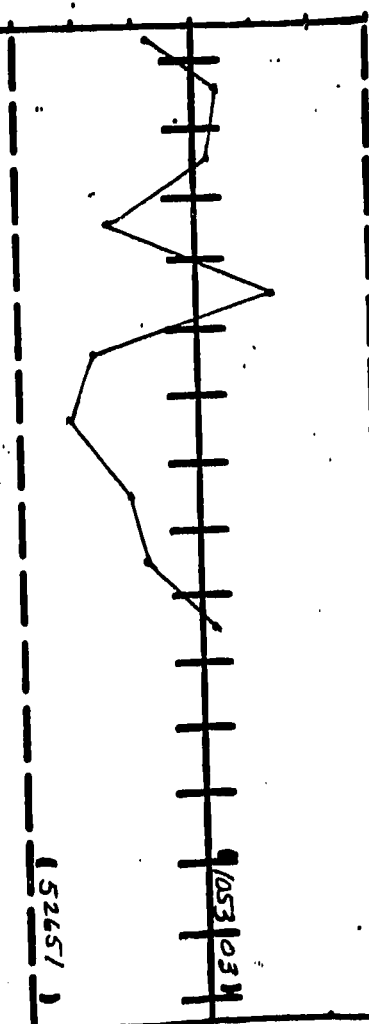
025533

3 1

RETINO SCOTOPHOTIC COUNT 15
 I. STD 158

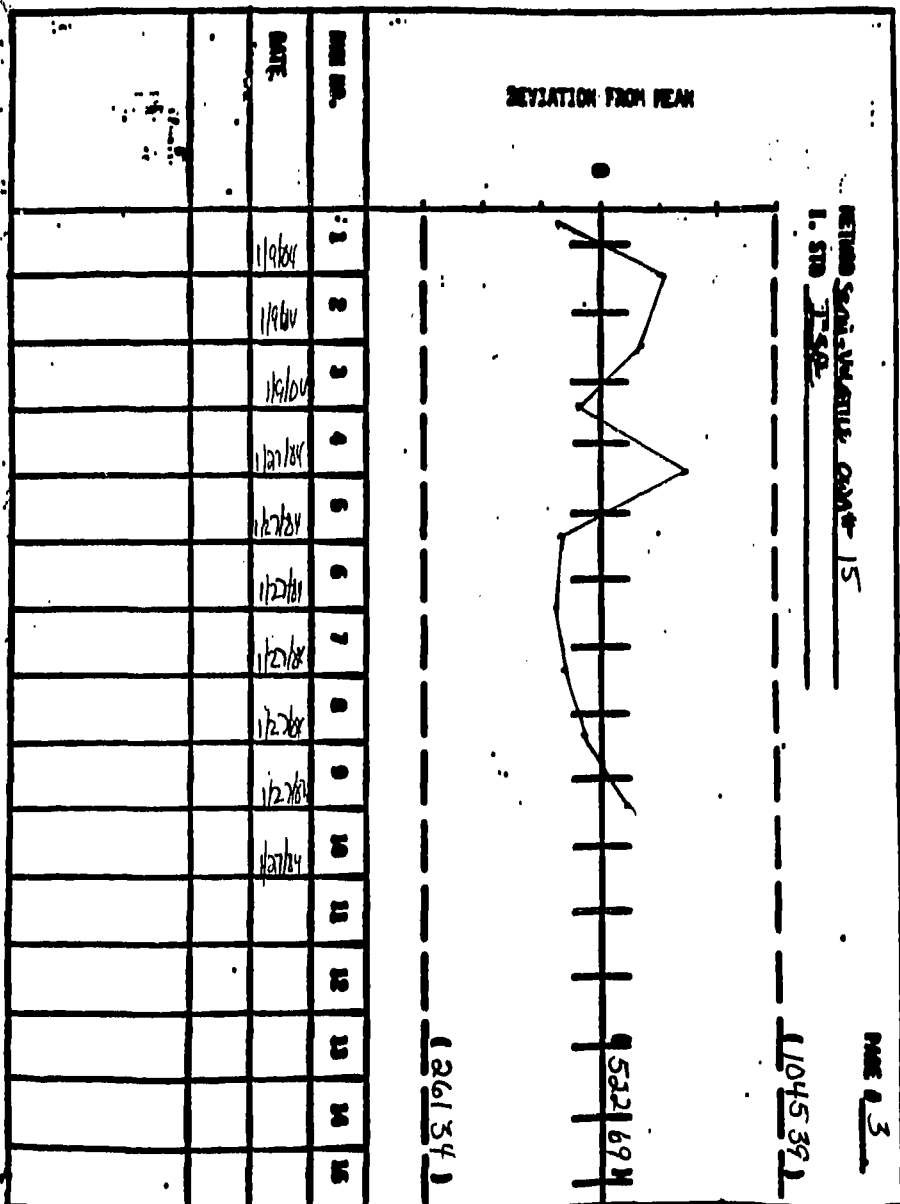
NAME 12
 (2/06071)

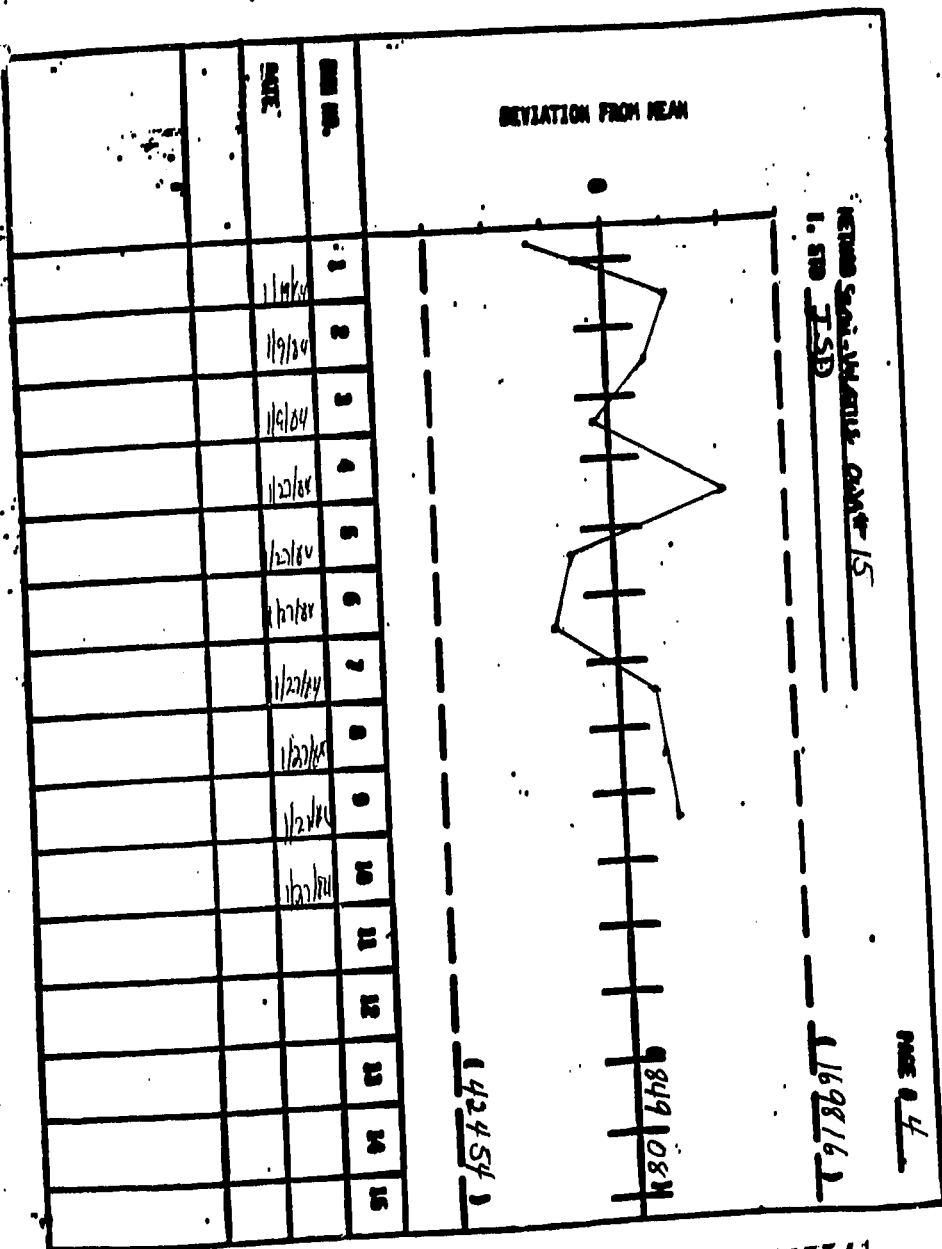
DEVIATION FROM MEAN



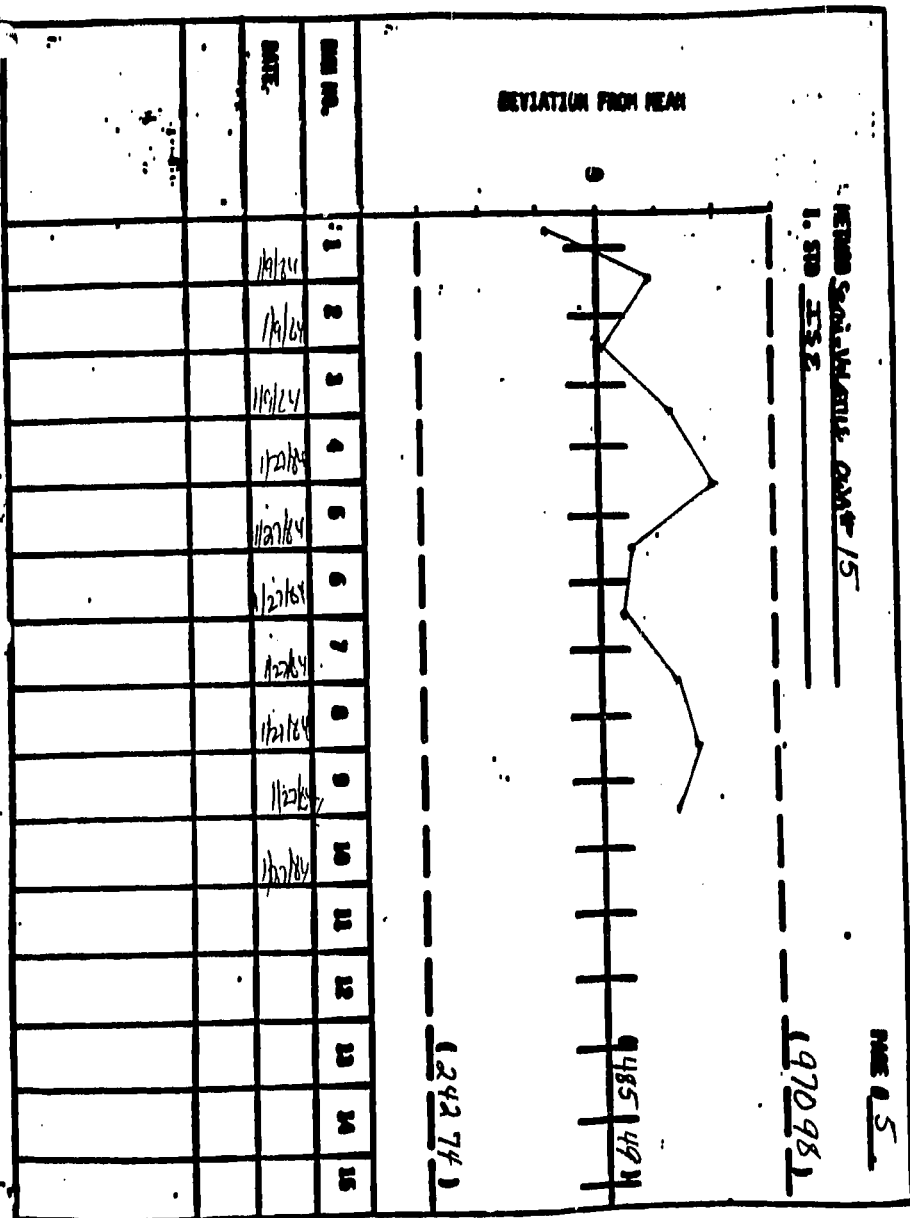
TRIAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DATE	1/9/24	1/9/24	1/9/24	1/20/24	1/20/24	1/20/24	1/20/24	1/20/24	1/20/24	1/20/24					

000000
 025539



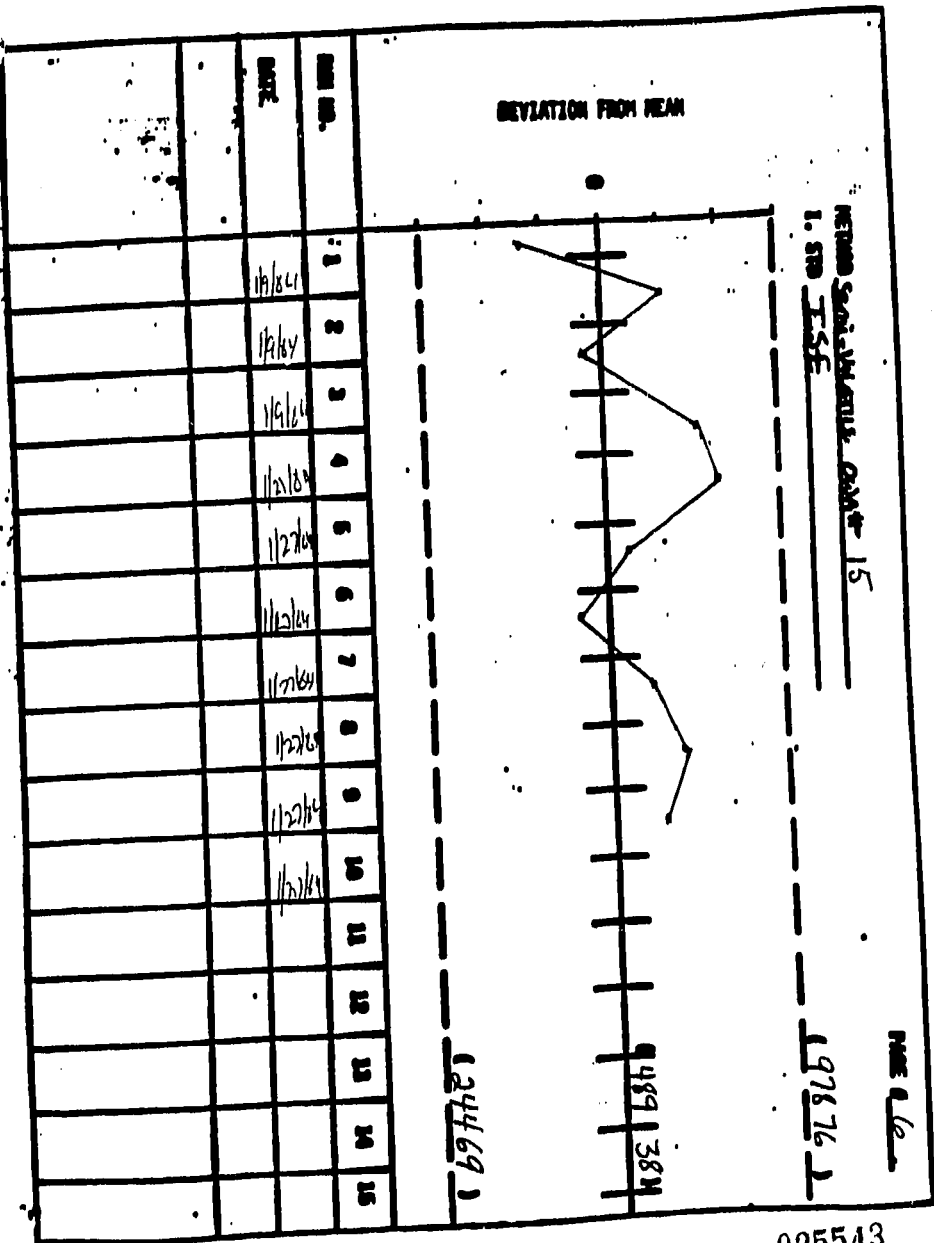


025541
 003231



025542

000000



025543
003233

Case No. _____ Contractor CompuChem Contract No. 62-61-6 Re2

Instrument I.D. DWA #15 O.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RTT	Resp Area	RTT	Resp Area	RTT	Resp Area	RTT	Resp Area	RTT	Resp Area	RTT					
H1840109A15	0109B4	46621	.339	99352	.422	47303	.542	76466	.422	44018	.832	41227	1.000	.469	2.100	.619	1.737	1.065
H5840109A15	0109B4	54274	.339	109833	.422	56275	.542	91749	.422	53073	.831	57294	1.000	.494	1.952	.613	1.729	.926
H1840109A15	0109B4	55337	.339	106726	.422	53231	.542	86509	.422	48557	.832	48294	1.000	.518	2.005	.615	1.782	1.005
H5840127C15	0127B4	45629	.337	91229	.426	48815	.556	83911	.426	56190	.864	60996	1.000	.500	1.869	.582	1.492	.921
GHO18908A15	0127B4	54772	.335	121735	.424	62259	.555	103808	.424	66400	.864	64747	1.000	.450	1.955	.600	1.563	1.026
GJO19355A15	0127B4	43347	.337	89436	.427	48557	.556	82892	.427	52632	.864	51278	1.000	.485	1.842	.586	1.575	1.026
GHO19131A15	0127B4	42413	.337	87148	.426	47354	.556	79716	.426	51166	.864	47955	1.000	.487	1.840	.594	1.558	1.067
GHO19311A15	0127B4	44417	.338	93645	.427	50309	.556	86505	.427	56417	.864	52510	1.000	.474	1.861	.582	1.533	1.074
GHO19270A15	0127B4	42612	.337	94034	.427	51354	.556	90752	.427	59992	.863	59868	1.000	.453	1.831	.566	1.513	1.002
GHO19114A15	0127B4	49183	.338	106324	.427	55909	.556	90926	.427	58856	.863	56897	1.000	.463	1.902	.615	1.545	1.034

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)

025544

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. _____ Contractor CompuChem Contract No. 18-01-6762
 Instrument Identifier OWA #15 Calibration Date 01/09/84
 Standard File HGB40127C15 Date 01/27/84 Time 06:56
 Minimum SD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	TD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.734	0.583	-22.930		
BIS (2-CHLOROETHYL) ETHER	1.215	0.955	-23.960		
2-CHLOROPHENOL	0.831	0.785	-5.690		
PHENOL	1.324	1.150	-14.060	*	
1,3-DICHLOROBENZENE	0.872	0.842	-3.500		
1,4-DICHLOROBENZENE	0.947	0.898	-5.310	*	
1,2-DICHLOROBENZENE	0.840	0.821	-2.280		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.268	-21.330		
HEXACHLOROETHANE	0.401	0.427	6.280		
N-NITROSODI-N-PROPYLAMINE	0.168	0.150	-11.320		**
NITROBENZENE	0.463	0.396	-15.590		
ISOPHORONE	0.954	0.836	-13.180		
2-NITROPHENOL	0.183	0.197	7.360	*	
2,4-DIMETHYLPHENOL	0.351	0.314	-11.120		
BIS (2-CHLOROETHOXY) METHANE	0.607	0.494	-20.520		
2,4-DICHLOROPHENOL	0.258	0.270	4.540	*	
1,2,4-TRICHLOROBENZENE	0.267	0.326	19.890		
NAPHTHALENE	1.189	1.079	-9.700		
HEXACHLOROBUTADIENE	0.146	0.166	12.820	*	
P-CHLORO-N-CRESOL	0.452	0.424	-6.390	*	
HEXACHLOROCYCLOPENTADIENE	0.092	0.104	12.240		**
2,4,6-TRICHLOROPHENOL	0.540	0.228	-81.250	*	
CHLORONAPHTHALENE	1.126	1.131	0.440		
ACENAPHTHYLENE	1.015	1.663	48.390		
DIMETHYL PHTHALATE	1.334	1.414	5.820		
2,6-DINITROTOLUENE	0.428	0.299	-35.480		
ACENAPHTHENE	1.172	1.090	-7.250	*	
2,4-DINITROPHENOL	0.042	0.074	55.170		**
2,4-DINITROTOLUENE	0.409	0.458	11.300		
4-NITROPHENOL	0.155	0.198	24.360		**
FLUORENE	1.283	1.263	-1.570		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.474	5.410		
DIETHYL PHTHALATE	1.704	1.780	4.360		
4,6-DINITRO-D-CRESOL	0.080	0.157	64.970		
N-NITROSODIPHENYLAMINE	0.391	0.445	12.910	*	
1,2-DIPHENYLHYDRAZINE	2.611	1.725	-40.860		
4-BROMOPHENYL PHENYL ETHER	0.178	0.174	-2.270		
HEXACHLOROBENZENE	0.198	0.211	6.350		
PENTACHLOROPHENOL	0.090	0.132	37.830	*	
PHENANTHRENE	1.014	0.983	-3.100		
ANTHRACENE	0.947	0.927	-2.130		
DI-N-BUTYL PHTHALATE	1.699	1.676	-1.360		
FLUORANTHENE	1.058	1.113	5.060	*	
PYRENE	1.849	1.579	-15.750		
BENZIDINE	0.000	0.000	0.000		**

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 **)

003035

31

025545

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. _____ Contractor _____ CompuChem _____ Contract No. 62-C1-6762
 Instrument Identifier OWA #15 Calibration Date 01/09/84
 Standard File HGB40127C15 Date 01/27/84 Time 06:56
 Maximum XD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	XD	CCC	SPCC
BUTYL BENZYL PHTHALATE	1.107	0.971	-13.080		
BENZO (A) ANTHRACENE	1.420	1.376	-3.140		
CHRYSENE	1.199	1.177	-1.850		
3,3'-DICHLOROBENZIDINE	0.016	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.493	1.344	-10.500		
DI-N-OCTYL PHTHALATE	2.582	2.435	-5.860	*	
3,4-BENZOFUORANTHENE	1.114	1.262	12.450		
BENZO (K) FLUORANTHENE	0.975	0.901	-7.880		
BENZO (A) PYRENE	0.998	1.066	6.580	*	
INDENO (1,2,3-CD) PYRENE	0.571	0.843	38.470		
DIBENZO (A,H) ANTHRACENE	0.705	0.780	10.100		
BENZO (GHI) PERYLENE	0.881	0.816	-7.660		
ANILINE	1.196	1.056	-12.430		
BENZOIC ACID	0.200	0.200	0.000		
BENZYL ALCOHOL	0.550	0.476	-14.420		
4-CHLOROANILINE	0.140	0.359	87.770		
DIBENZOFURAN	1.657	1.661	0.240		
2-METHYLNAPHTHALENE	0.307	0.357	15.060		
O-CRESOL	0.804	0.688	-15.540		
P-CRESOL	0.881	0.770	-13.440		
2-NITROANILINE	0.041	0.036	-12.980		
3-NITROANILINE	0.429	0.453	5.440		
4-NITROANILINE	0.070	0.058	-18.750		
2,4,5-TRICHLOROPHENOL	0.150	0.160	6.450		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

XD - Percent Difference

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

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

003238

31 025548

Case No. _____

Contractor CompuChemContract No. 62-C1-4762Instrument 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	0.738	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	1.038	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	
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	
NAPHTHALENE	1.003	1.235	1.183	1.149	1.189	
HEXACHLOROBUTADIENE	1.031	0.148	0.148	0.141	0.146	
CHLORO-M-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-D-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	1.694	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	
BENZIDINE	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 *)

003037

31

025547

Initial Calibration Data - Semivolatile HSL Compounds

Page 2

Case No. _____

Contractor CompuChemContract No. 68-01-6762Instrument Identifier QNA 015

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	0.665	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-BENZOFUORANTHENE	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	
O-CRESOL	1.052	0.872	0.795	0.744	0.804	
RESOL	1.079	0.913	0.881	0.851	0.881	
4-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	

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 #)

003223

31

025548

Semi-Volatile		
	Case 2333	
1	19257	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32	003237	
33		025543
	P. 31	

Internal Standard Response Verification Data Sheet

PAGE 1

Case No. _____ Contractor CompuChem Contract No. _____Instrument I.D. ONA_014 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					
H1840201B14	020184	58340	.305	114656	.403	46924	.549	69985	.403	40835	.894	47416	1.000	.509	2.443	.670	1.714	.861
H6B40201B14	020184	57311	.305	106209	.404	43964	.549	73481	.404	52036	.894	58385	1.000	.540	2.416	.598	1.412	.891
H1840201B14	020184	59734	.305	105937	.404	43244	.549	73737	.404	48106	.894	51512	1.000	.564	2.450	.586	1.533	.934
GR019257B14	020384	33304	.307	69539	.405	26185	.550	39287	.405	18758	.894	12354	1.000	.479	2.656	.667	2.094	1.518

R1 = (Resp ISA/Resp ISB)

R2 = (Resp ISB/Resp ISC)

R3 = (Resp ISC/Resp ISD)

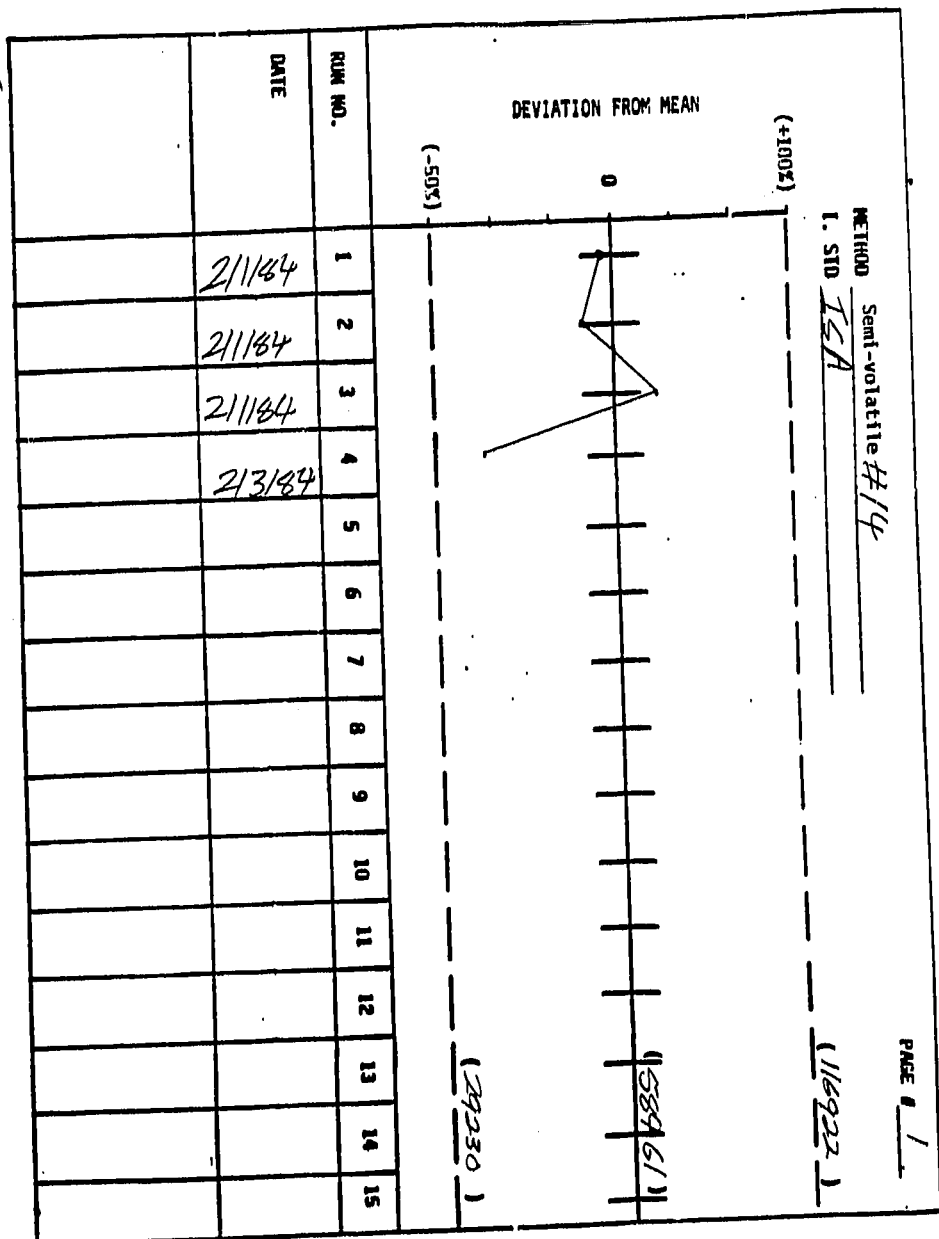
R4 = (Resp ISD/Resp ISE)

R5 = (Resp ISE/Resp ISF)

31

003240

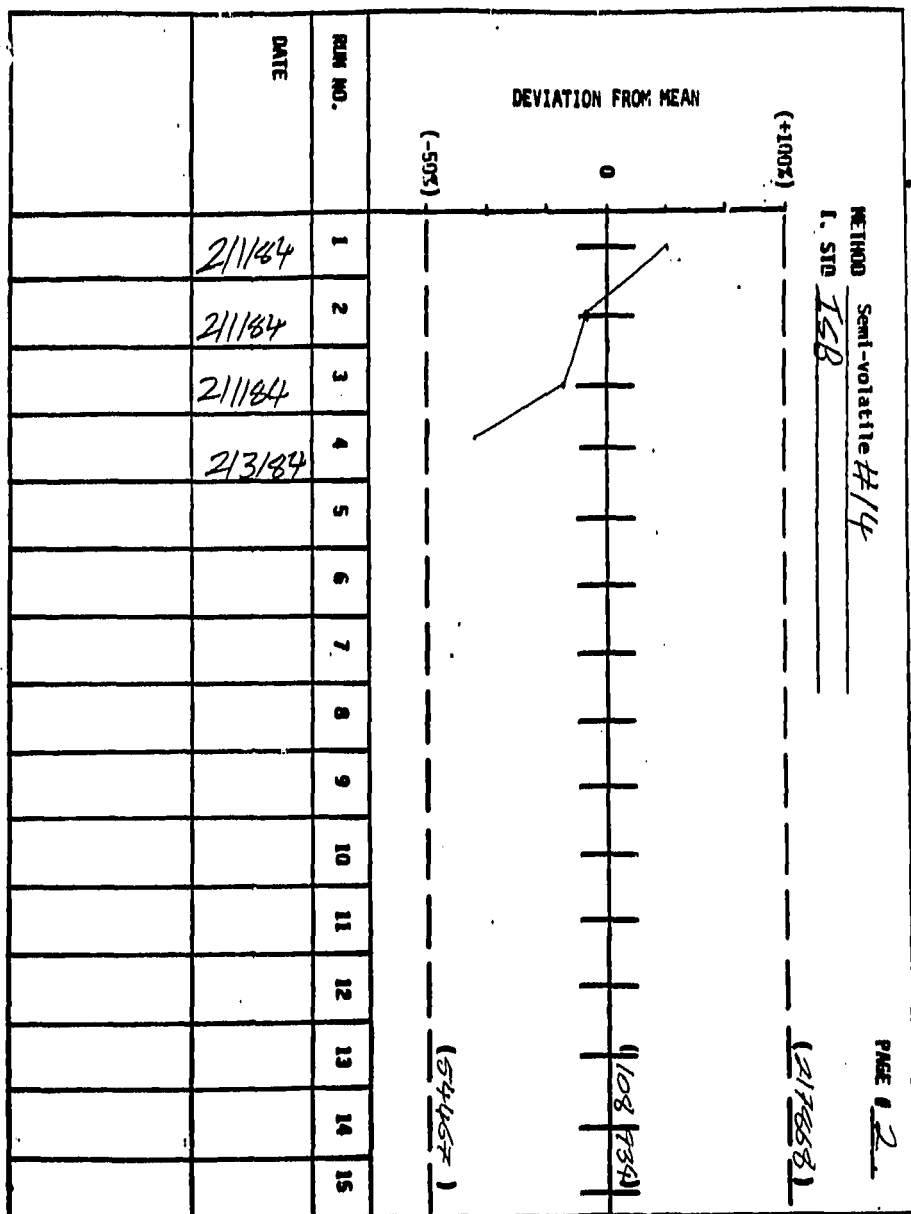
025550



003241

31

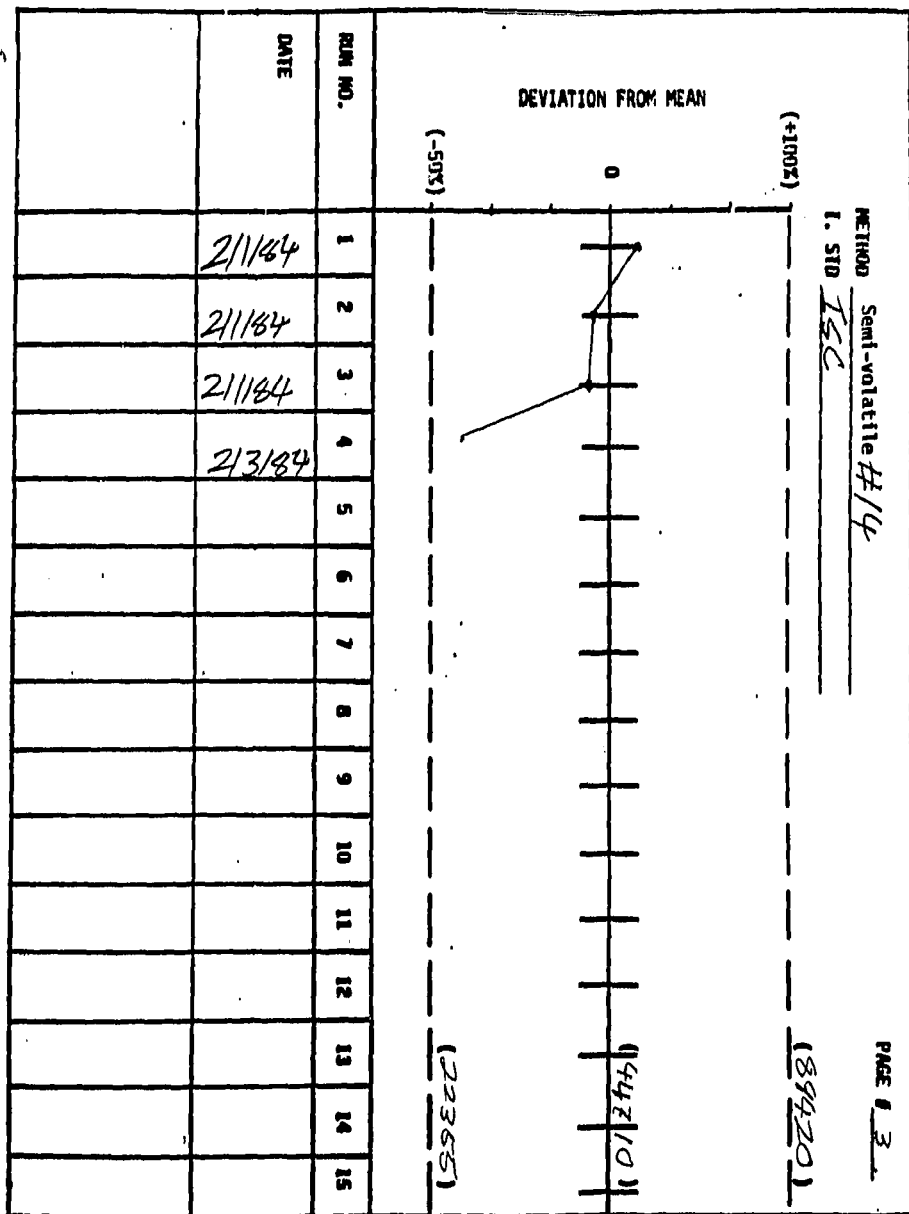
025551



003242

31

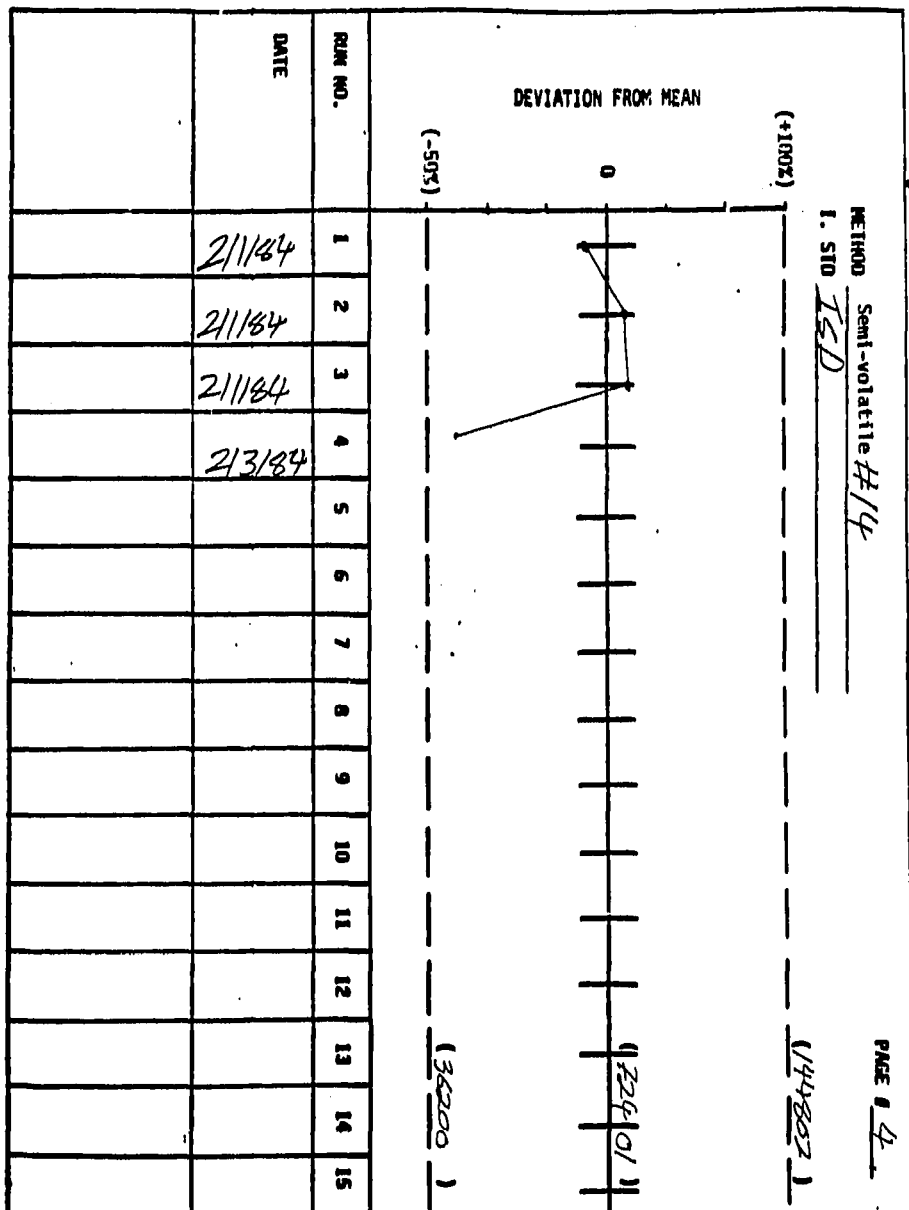
025552



003943

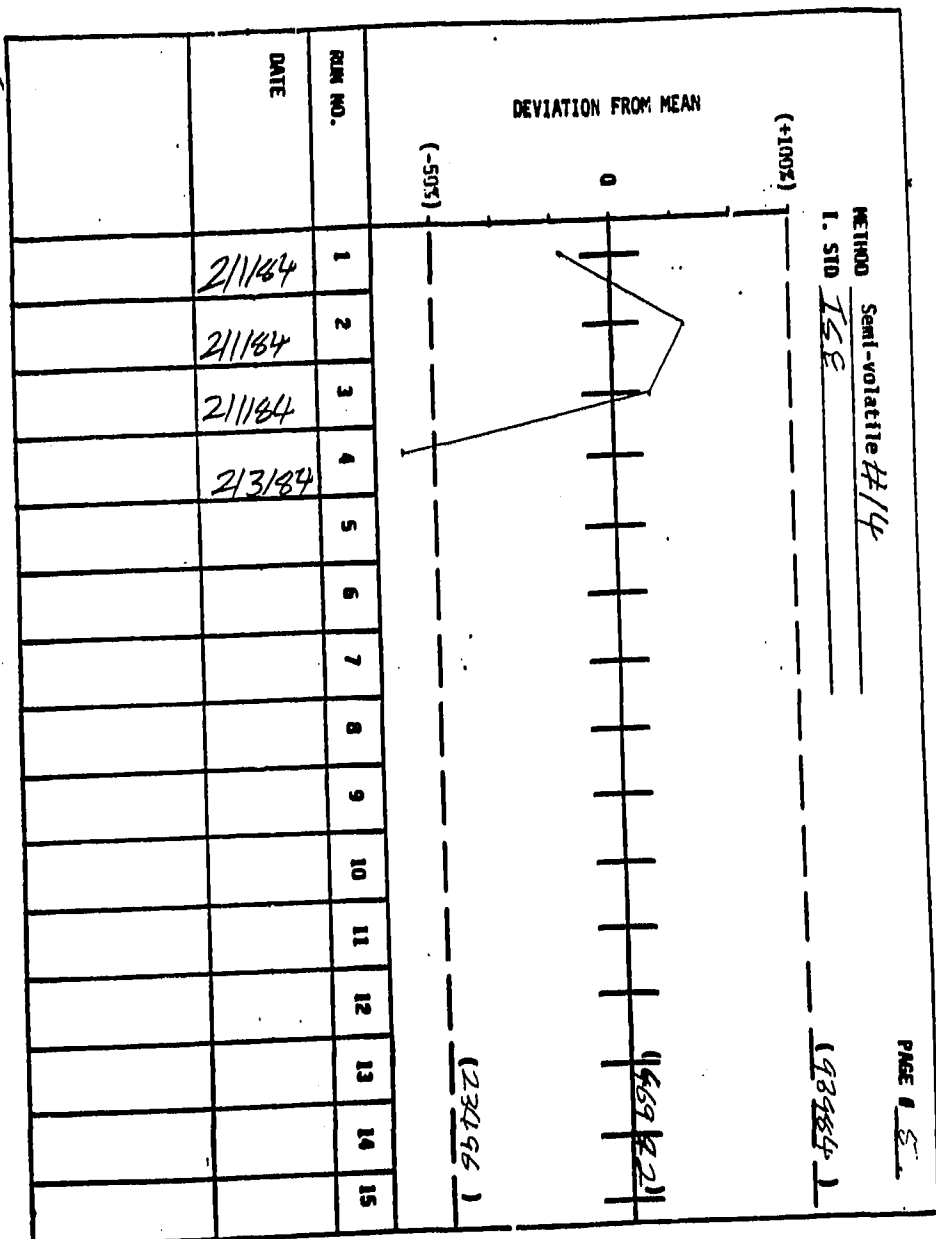
31

025553



003244

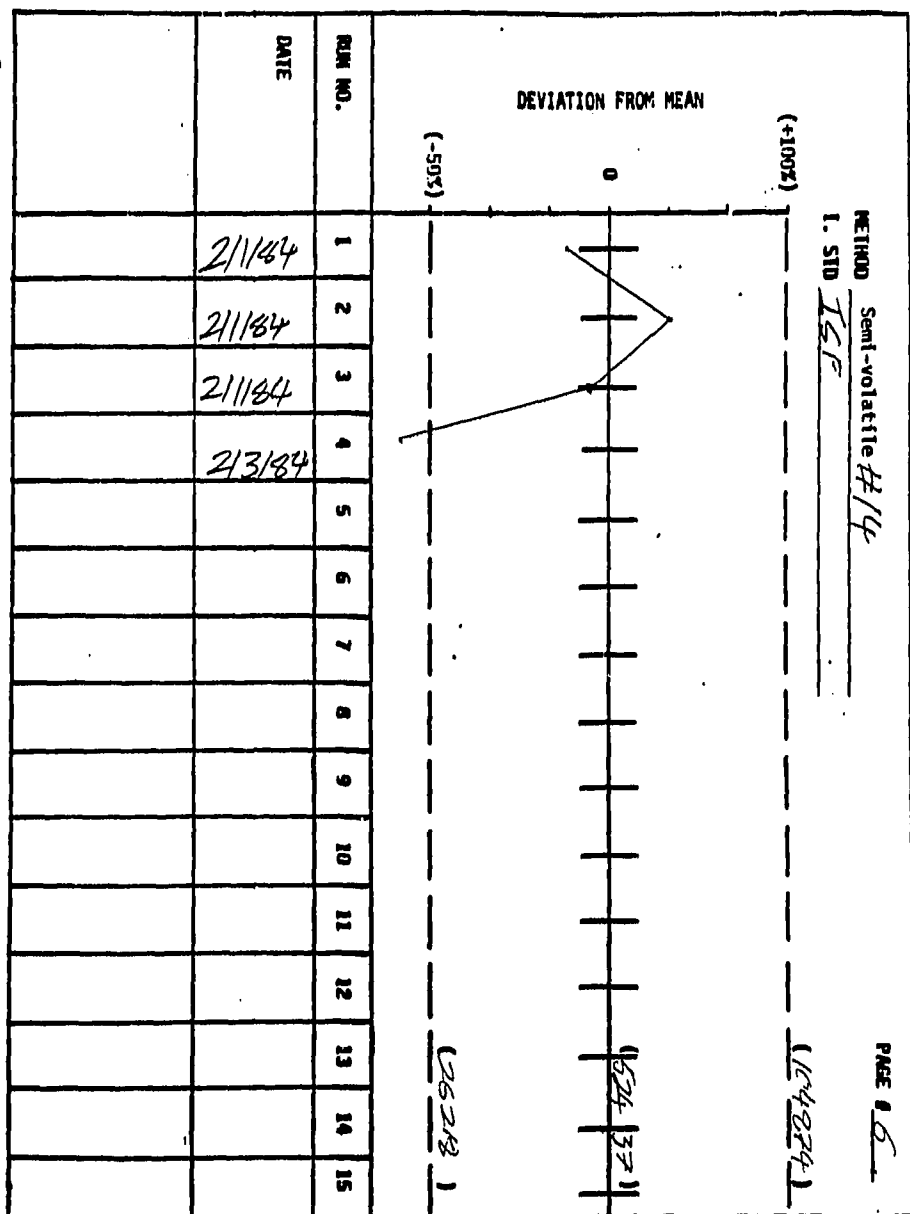
025554



007945

31

025555



31

003046
025556

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. _____ Contractor _____ CompuChem _____ Contract No. _____
 Instrument Identifier _____ OMA #14 _____ Calibration Date 02/01/84
 Standard File HBB40203814 Date 02/03/84 Time 17:27
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.630	0.723	13.740		
BIS (2-CHLOROETHYL) ETHER	0.989	1.051	6.070		
2-CHLOROPHENOL	0.798	0.795	-0.370		
PHENOL	1.075	1.008	-6.430	*	
1,3-DICHLOROBENZENE	0.840	0.824	-1.920		
1,4-DICHLOROBENZENE	0.907	0.909	0.220	*	
1,2-DICHLOROBENZENE	0.791	0.779	-1.520		
BIS (2-CHLOROISOPROPYL) ETHER	0.212	0.203	-4.330		
HEXACHLOROETHANE	0.337	0.340	0.880		
N-NITROSODI-N-PROPYLAMINE	0.114	0.122	6.770		**
NITROBENZENE	0.365	0.343	-6.210		
ISOPHORONE	0.703	0.716	1.830		
2-NITROPHENOL	0.164	0.176	7.050	*	
2,4-DIMETHYLPHENOL	0.299	0.287	-4.090		
BIS (2-CHLOROETHOXY) METHANE	0.481	0.499	3.670		
2,4-DICHLOROPHENOL	0.248	0.248	0.000	*	
1,2,4-TRICHLOROBENZENE	0.313	0.322	2.830		
NAPHTHALENE	1.135	1.176	3.540		
HEXACHLOROCYCLOPENTADIENE	0.148	0.150	1.340	*	
P-CLORO-N-CRESOL	0.337	0.338	0.290	*	
1,2-DICHLOROCYCLOPENTADIENE	0.075	0.073	-2.700		**
2,4,6-TRICHLOROPHENOL	0.184	0.156	-16.470	*	
2-CHLORONAPHTHALENE	1.281	1.312	2.390		
ACENAPHTHYLENE	1.262	1.166	-7.900		
DIMETHYL PHTHALATE	1.429	1.481	3.570		
2,6-DINITROTOLUENE	0.258	0.240	-7.220		
ACENAPHTHENE	1.072	1.168	8.570	*	
2,4-DINITROPHENOL	0.054	0.073	29.920		**
2,4-DINITROTOLUENE	0.365	0.387	5.850		
4-NITROPHENOL	0.130	0.105	-21.270		**
FLUORENE	1.282	1.241	-3.250		
4-CHLOROPHENYL PHENYL ETHER	0.499	0.518	3.730		
DIETHYL PHTHALATE	1.635	1.820	10.700		
4,6-DINITRO-O-CRESOL	0.093	0.148	45.640		
N-NITROSODIPHENYLAMINE	0.408	0.175	-79.930	*	
1,2-DIPHENYLHYDRAZINE	1.789	1.775	-0.780		
4-BROMOPHENYL PHENYL ETHER	0.173	0.178	2.840		
HEXACHLOROBENZENE	0.233	0.240	2.950		
PENTACHLOROPHENOL	0.113	0.133	16.260	*	
PHENANTHRENE	1.196	1.168	-2.340		
ANTHRACENE	0.947	0.964	1.770		
DI-N-BUTYL PHTHALATE	1.629	1.779	8.800		
FLUORANTHENE	1.108	1.200	7.970	*	
PYRENE	1.689	1.723	1.990		
BENZIDINE	0.000	0.000	0.000		**

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 **)

003247

31

025557

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Case No. _____ Contractor ____ CompuChem _____ Contract No. _____
 Instrument Identifier DMA 014 _____ Calibration Date 02/01/84
 Standard File HGB40203B14 _____ Date 02/03/84 Time 17:27
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.976	0.992	1.620		
BENZO (A) ANTHRACENE	1.434	1.279	-11.420		
CHRYSENE	1.111	1.090	-1.900		
3,3'-DICHLOROBENZIDINE	0.054	0.073	29.920		
BIS (2-ETHYLHEXYL) PHTHALATE	1.330	1.276	-4.140		
DI-N-OCTYL PHTHALATE	2.145	2.226	3.700	*	
3,4-BENZOFLUORANTHENE	1.274	1.273	-0.070		
BENZO (K) FLUORANTHENE	0.886	1.028	14.830		
BENZO (A) PYRENE	1.017	0.996	-2.080	*	
INDENO (1,2,3-CD) PYRENE	0.928	0.787	-16.440		
DIBENZO (A,H) ANTHRACENE	0.842	0.755	-10.890		
BENZO (GHI) PERYLENE	0.911	0.753	-18.990		
ANILINE	1.007	0.783	-25.020		
BENZOIC ACID	0.137	0.162	16.720		
BENZYL ALCOHOL	0.466	0.426	-8.960		
4-CHLORANILINE	0.128	0.165	25.250		
DIBENZOFURAN	1.707	1.753	2.650		
2-METHYLNAPHTHALENE	0.234	0.243	3.770		
O-CRESOL	0.619	0.583	-5.990		
P-CRESOL	0.700	0.650	-7.400		
TROANILINE	0.035	0.045	25.000		
3-NITROANILINE	0.467	0.523	11.310		
4-NITROANILINE	0.019	0.011	-53.330		
2,4,5-TRICHLOROPHENOL	0.150	0.154	2.630		

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 an *)

003248

025558

31

Case No. _____ Contractor CompuChem Contract No. _____Sample 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
N-NITROSODIMETHYLAMINE	0.409	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	0.857	0.801	0.840	
1,4-DICHLOROBENZENE	1.004	0.950	0.919	0.852	0.907	
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	0.953	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	
THALEDNE	1.004	1.113	1.160	1.131	1.135	
1,4-CHLOROBUTADIENE	1.046	0.140	0.153	0.152	0.149	
P-CHLORO-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	
ACENAPHTYLENE	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	0.986	0.215	0.268	0.291	0.258	
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-O-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	1.825	1.629	
FLUORANTHENE	1.152	1.043	1.161	1.119	1.108	
PYRENE	0.884	1.827	1.691	1.550	1.689	
B. LIDIME	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

31

003249

025553

Initial Calibration Data - Semivolatile HSL Compounds

Page 2

Case No. _____ Contractor CompuChem Contract No. _____Instrument 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
BUTYL BENZYL PHTHALATE	0.960	1.014	0.953	0.961	0.976	
BENZO (A) ANTHRACENE	0.998	1.425	1.442	1.436	1.434	
CHRYSENE	1.002	1.196	1.070	1.066	1.111	
3,3'-DICHLOROBENZIDINE	1.004	0.057	0.054	0.051	0.054	
BIS (2-ETHYLHEXYL) PHTHALATE	1.019	1.418	1.299	1.274	1.330	
DI-N-OCTYL PHTHALATE	1.075	2.243	2.046	2.148	2.145	
3,4-BENZOFLOUORANTHENE	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	
AMILINE	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-CHLOROANILINE	1.032	0.639	0.141	0.205	0.128	
1-BENZODIURAN	1.029	1.709	1.638	1.775	1.707	
2-ETHYLNAPHTHALENE	1.145	0.222	0.245	0.236	0.234	
O-CRESOL	1.092	0.639	0.634	0.584	0.619	
P-CRESOL	1.130	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	

Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor

31

003950

025560

Semi-Volatile

Case 2333

19266

109A15

2/22/84

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

31

003251

025561

Internal Standard Response Verification Data Sheet

PAGE 1

Case No. 2333 Contractor CompuChem Contract No. 68-01-6866Instrument I.D. OWA_815 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					
H1840109A15	010984	46621	.339	99352	.422	47303	.542	76466	.422	44018	.832	41227	1.000	.469	2.100	.619	1.737	1.068
H1840109A15	010984	54274	.339	109833	.422	56275	.542	91749	.422	53073	.831	57294	1.000	.494	1.952	.613	1.729	.926
H1840109A15	010984	25337	.339	106726	.422	53231	.542	86509	.422	48557	.832	48294	1.000	.518	2.005	.615	1.782	1.005
GR019266C15	020684	31540	.335	79639	.424	42859	.553	70843	.424	37850	.861	19442	1.000	.396	1.858	.695	1.872	3.625

R1 = (Resp ISA/Resp ISB)

R2 = (Resp ISB/Resp ISC)

R3 = (Resp ISC/Resp ISD)

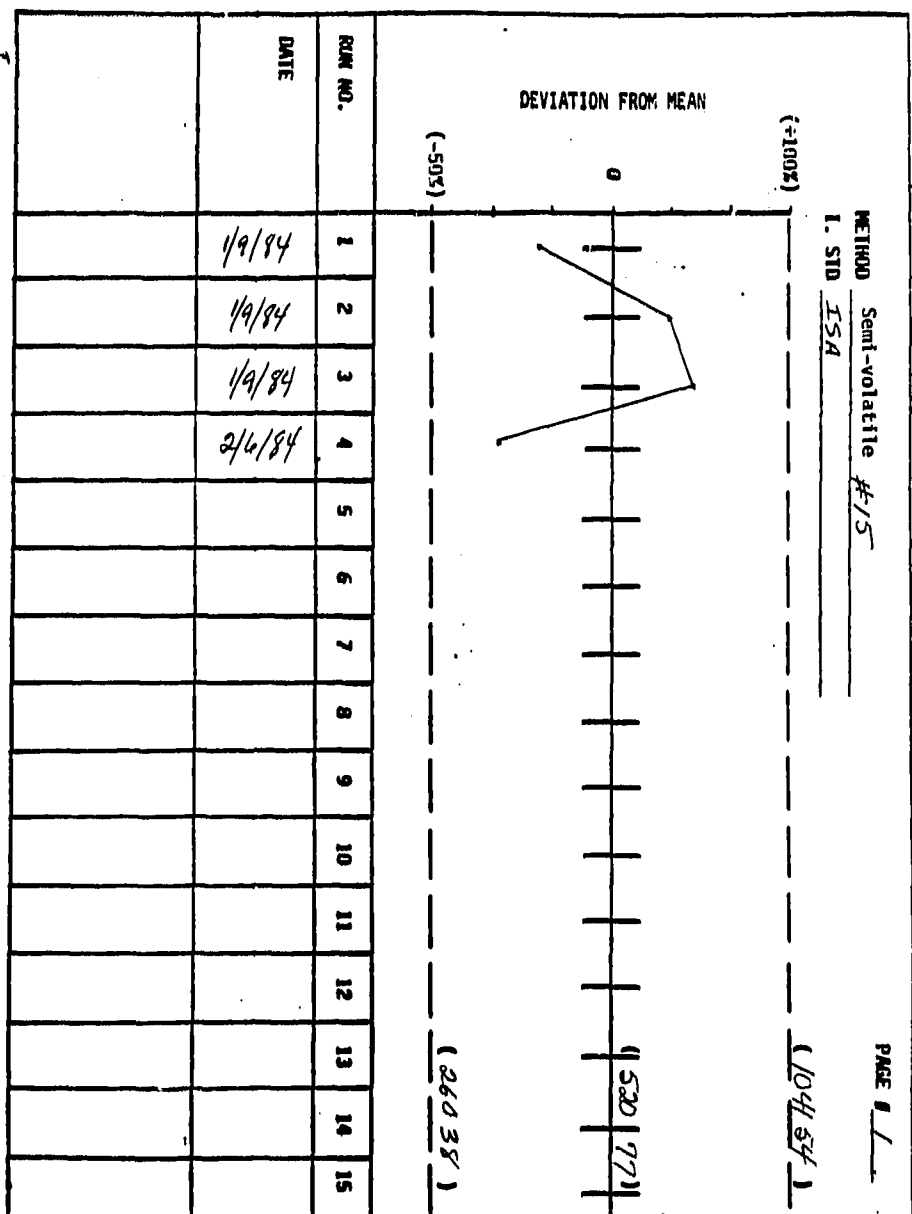
R4 = (Resp ISD/Resp ISE)

R5 = (Resp ISE/Resp ISF)

003252

31

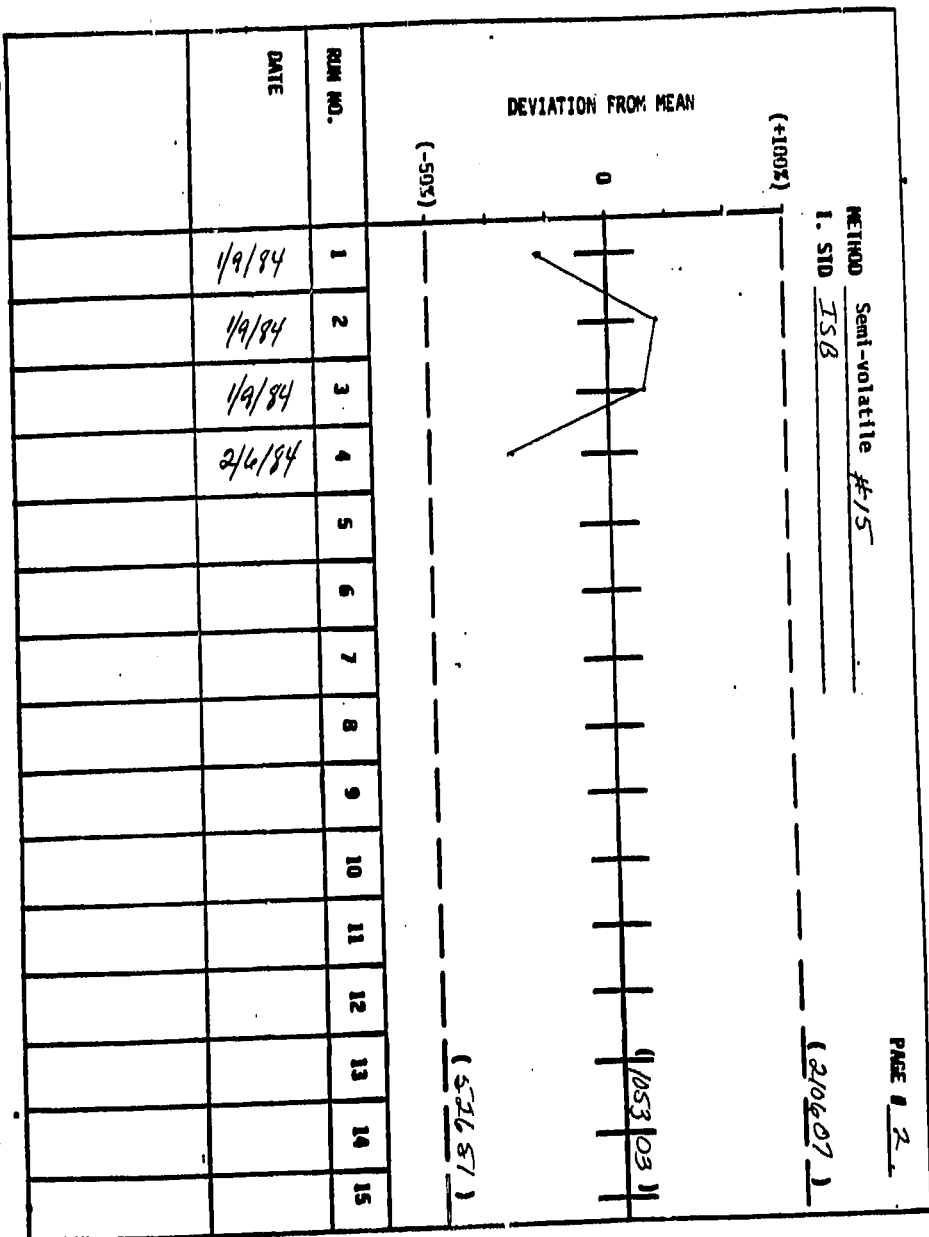
025562



003953

31

025563



003254

31

025564

METHOD Semi-volatile #15
 I. STD ISC

PAGE 3

(+100%)

(1045.39)

DEVIATION FROM MEAN

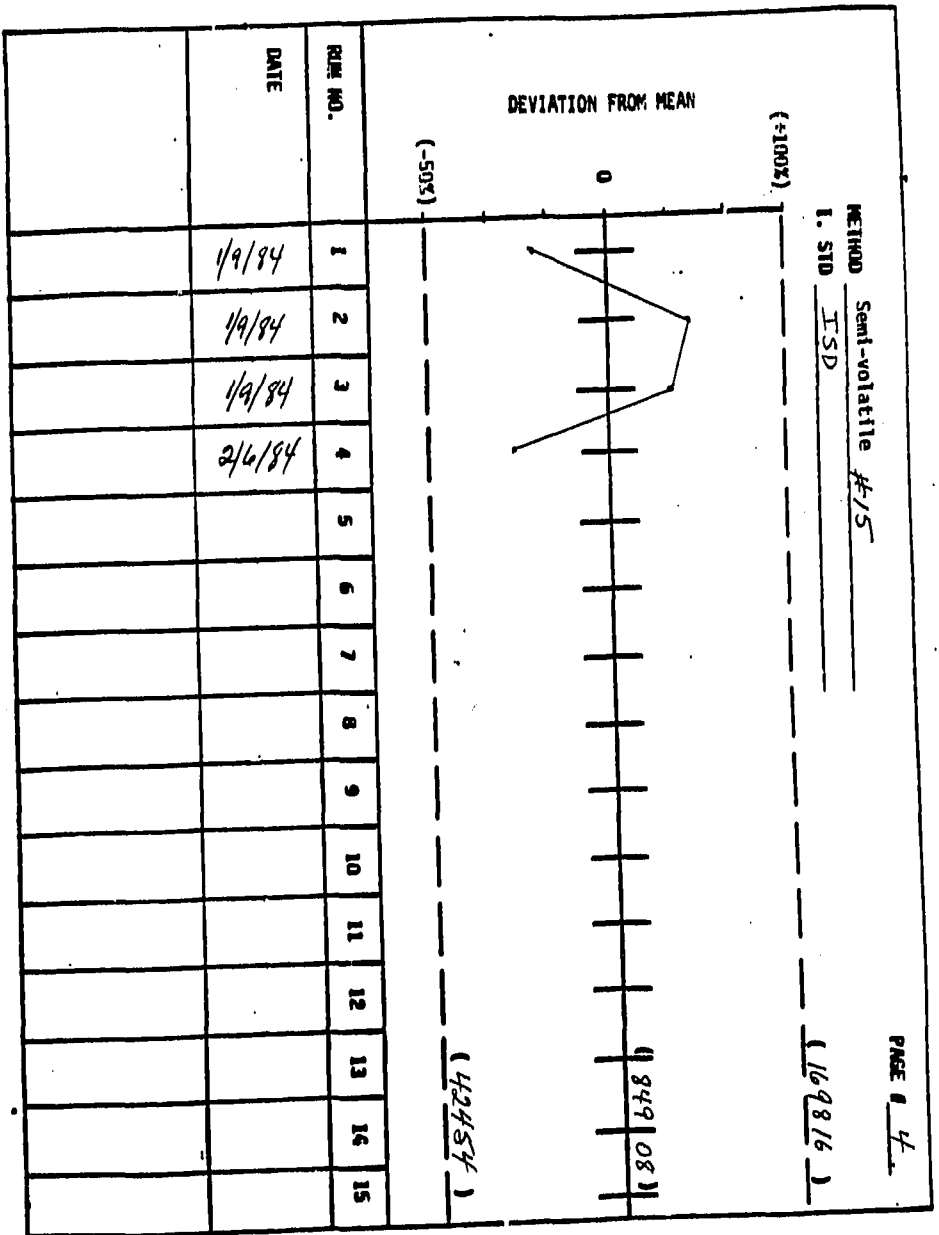
(-50%)

(261.34)

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

000055

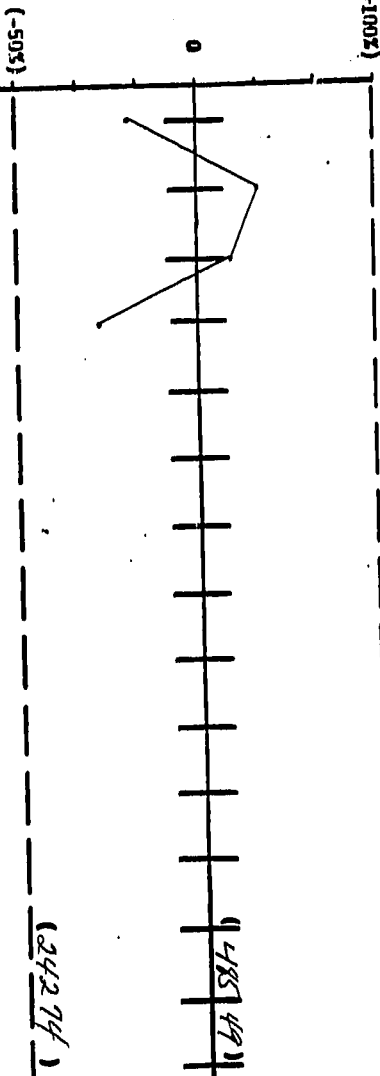
31 025563



METHOD Semi-volatile #15
I. STD ISE

(97098)

DEVIATION FROM MEAN

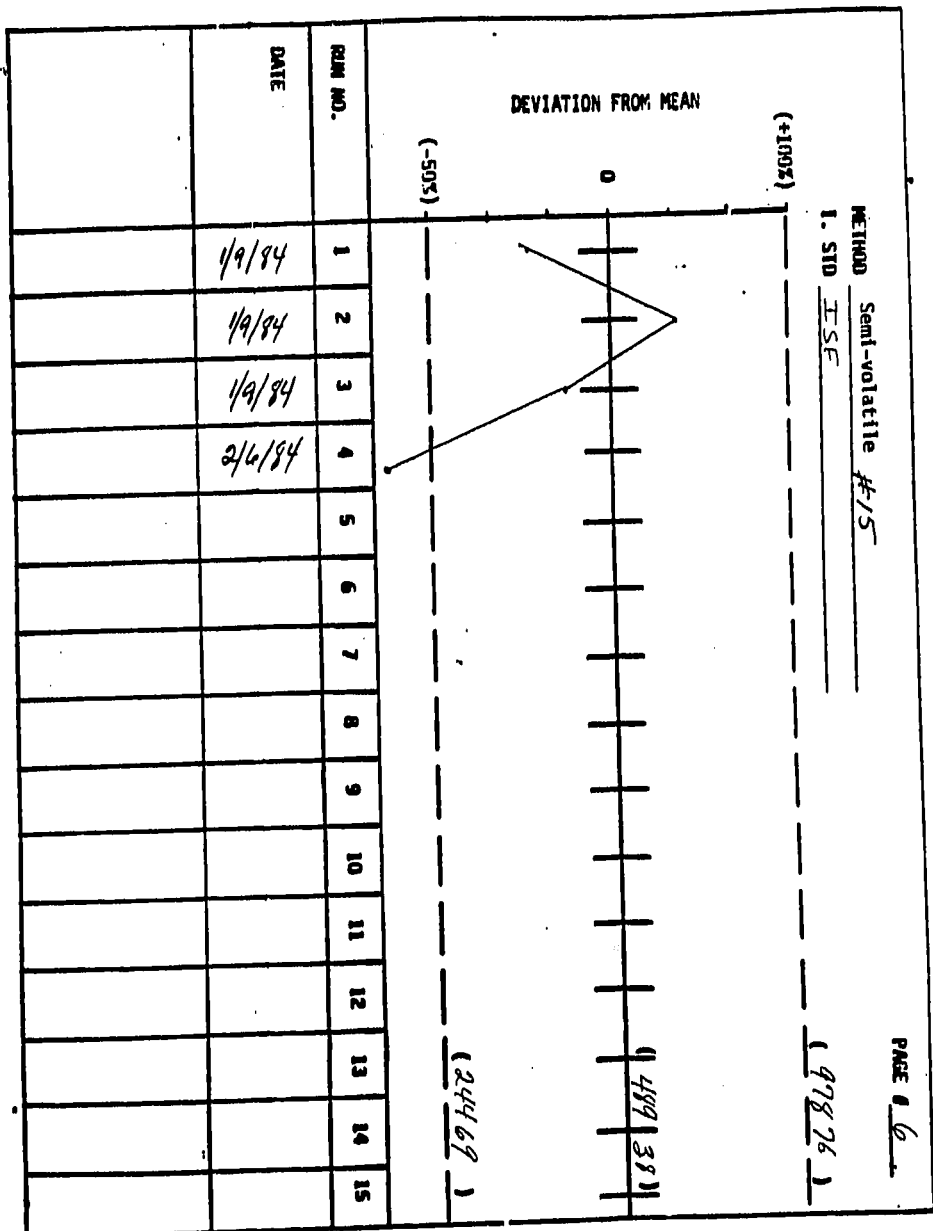


RUN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DATE	1/9/84	1/9/84	1/9/84	2/6/84											

003257

31

025567



003258

31

025563

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier DWA #15Calibration Date 01/09/84Standard File H8B40206C15Date 02/06/84 Time 01:13

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	0.415	-55.520		
BIS (2-CHLOROETHYL) ETHER	1.215	1.097	-10.200		
2-CHLOROPHENOL	0.831	0.723	-13.890		
PHENOL	1.324	0.924	-35.580	*	
1,3-DICHLOROBENZENE	0.872	0.833	-4.570		
1,4-DICHLOROBENZENE	0.947	0.953	0.630	*	
1,2-DICHLOROBENZENE	0.840	0.836	-0.470		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.291	-13.160		
HEXACHLOROETHANE	0.401	0.412	2.700		
N-NITROSODI-N-PROPYLAMINE	0.168	0.159	-5.500		**
NITROBENZENE	0.463	0.386	-18.130		
ISOPHORONE	0.954	0.893	-6.600		
2-NITROPHENOL	0.183	0.205	11.340	*	
2,4-DIMETHYLPHENOL	0.351	0.336	-4.360		
BIS (2-CHLOROETHOXY) METHANE	0.607	0.530	-13.540		
2,4-DICHLOROPHENOL	0.258	0.265	2.670	*	
1,2,4-TRICHLOROBENZENE	0.267	0.321	18.360		
NAPHTHALENE	1.189	1.179	-0.840		
HEXACHLOROBUTADIENE	0.146	0.162	10.380	*	
P-CHLORO-M-CRESOL	0.452	0.424	-6.390	*	
1-CHLOROCYCLOPENTADIENE	0.092	0.041	-76.690		**
2,4,6-TRICHLOROPHENOL	0.540	0.169	-104.650	*	
2-CHLORONAPHTHALENE	1.126	1.180	4.680		
ACENAPHTHYLENE	1.015	1.715	51.280		
DIMETHYL PHTHALATE	1.334	1.456	8.740		
2,6-DINITROTOLUENE	0.428	0.281	-41.460		
ACENAPHTHENE	1.172	1.136	-3.110	*	
2,4-DINITROPHENOL	0.042	0.018	-80.000		**
2,4-DINITROTOLUENE	0.409	0.406	-0.730		
4-NITROPHENOL	0.155	0.020	-154.280		**
FLUORENE	1.283	1.220	-5.030		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.462	2.850		
DIETHYL PHTHALATE	1.704	1.629	-4.500		
4,6-DINITRO-D-CRESOL	0.080	0.095	17.140		
N-NITROSODIPHENYLAMINE	0.391	0.703	57.030	*	
1,2-DIPHENYLHYDRAZINE	2.611	2.118	-20.850		
4-BROMOPHENYL PHENYL ETHER	0.178	0.169	-5.180		
HEXACHLOROBENZENE	0.198	0.196	-1.010		
PENTACHLOROPHENOL	0.090	0.037	-83.460	*	
PHENANTHRENE	1.014	1.084	6.670		
ANTHRACENE	0.947	1.021	7.520		
DI-N-BUTYL PHTHALATE	1.699	1.701	0.110		
FLUORANTHENE	1.058	1.134	6.930	*	
PYRENE	1.849	2.001	7.890		
BENZIDINE	0.000	0.006	200.000		**

F - 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 **)

003259

31

025563

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Data No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier DNA 815Calibration Date 01/09/84Standard File H8840206C15Date 02/06/84 Time 01:13

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	1.262	13.080		
BENZO (A) ANTHRACENE	1.420	1.321	-7.220		
CHRYSENE	1.199	1.425	17.220		
3,3'-DICHLOROBENZIDINE	0.016	0.066	121.950		
BIS (2-ETHYLHEXYL) PHTHALATE	1.493	1.864	22.100		
DI-N-OCTYL PHTHALATE	2.582	3.092	17.970	*	
3,4-BENZOFLUORANTHENE	1.114	1.208	8.090		
BENZO (K) FLUORANTHENE	0.975	1.436	38.240		
BENZO (A) PYRENE	0.998	1.119	11.430	*	
INDENO (1,2,3-CD) PYRENE	0.571	0.447	-24.360		
DIBENZO (A,H) ANTHRACENE	0.705	0.429	-48.670		
BENZO (GHI) PERYLENE	0.881	0.387	-77.910		
ANILINE	1.196	0.463	-88.360		
BENZOIC ACID	0.200	0.207	3.430		
BENZYL ALCOHOL	0.550	0.432	-24.030		
4-CHLOROANILINE	0.140	0.200	35.290		
DIBENZOFURAN	1.657	1.620	-2.250		
2-METHYLNAPHTHALENE	0.307	0.340	10.200		
D-CRESOL	0.804	0.761	-5.490		
RESOL	0.881	0.782	-15.790		
2-NITROANILINE	0.041	0.012	-109.430		
3-NITROANILINE	0.429	0.401	-6.740		
4-NITROANILINE	0.070	0.024	-97.870		
2,4,5-TRICHLOROPHENOL	0.150	0.167	10.720		

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 **)

003260

31

025570

Initial Calibration Data - Semivolatile HSL Compounds

Page 1

Case No. 2333Contractor CompuChemContract No. 68-01-6866Instrument Identifier OWA 015

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	0.343	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	1.038	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	
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	
2,4-TRICHLOROBENZENE	0.993	0.265	0.271	0.264	0.267	
THALENE	1.003	1.235	1.183	1.149	1.189	
HEXACHLOROBUTADIENE	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-CHLOROMETHYLENE	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	0.153	
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-D-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	1.694	1.723	1.679	1.699	
FLUORANTHENE	1.130	1.053	1.084	1.039	1.058	
ME	0.892	1.933	1.819	1.794	1.849	
BENZIDINE	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

003261

025571

31

Initial Calibration Data - Semivolatile HSL Compounds

Page 2

Lab No. 2333Contractor CompuChemContract No. 68-01-6886Instrument Identifier QMA #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	0.665	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-BENZOFUORANTHENE	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	
IMIDAZOLAN	1.024	1.700	1.646	1.626	1.657	
2-METHYLNAPHTHALENE	1.113	0.311	0.306	0.303	0.307	
O-CRESOL	1.052	0.872	0.795	0.744	0.804	
P-CRESOL	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	

Avg RRT - Average Relative Retention Time
 RF - Response Factor (amount of nanograms)
 Avg RF - Average Response Factor

31

025572

003262

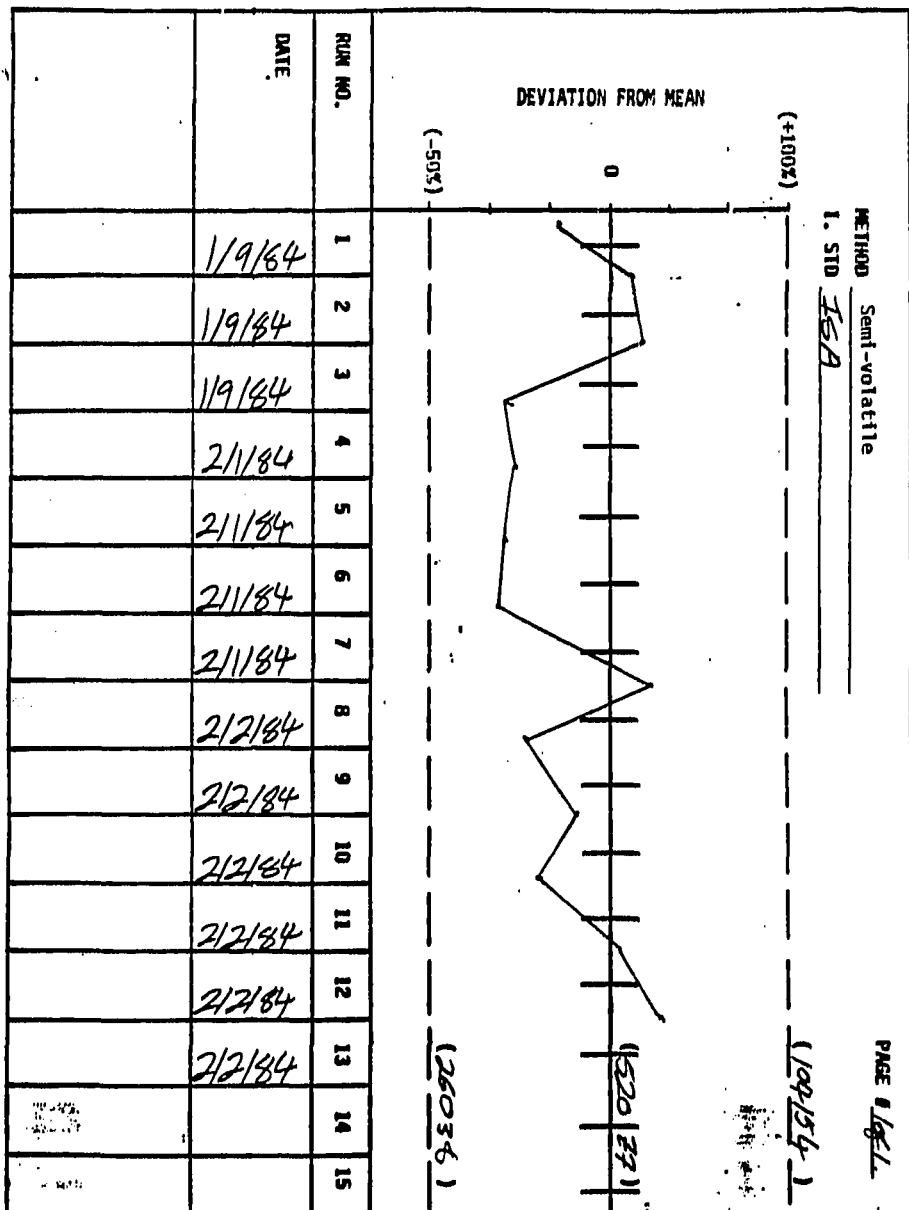
Semi-Volatile

Case 2333

1	19269	202015
2	~~19266~~	202015
3	19267	2449A15
4	19268	1
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		

31

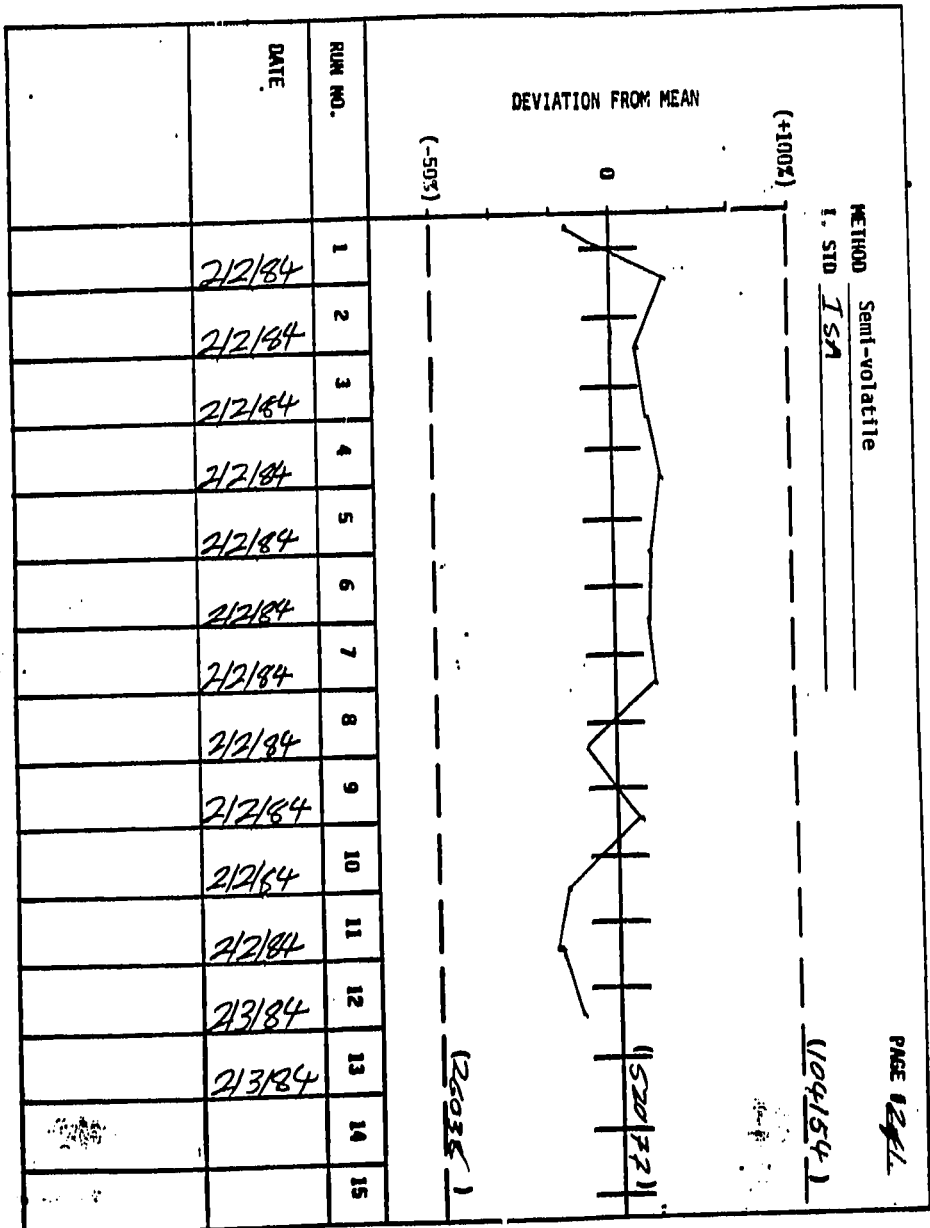
0255733



003264

31

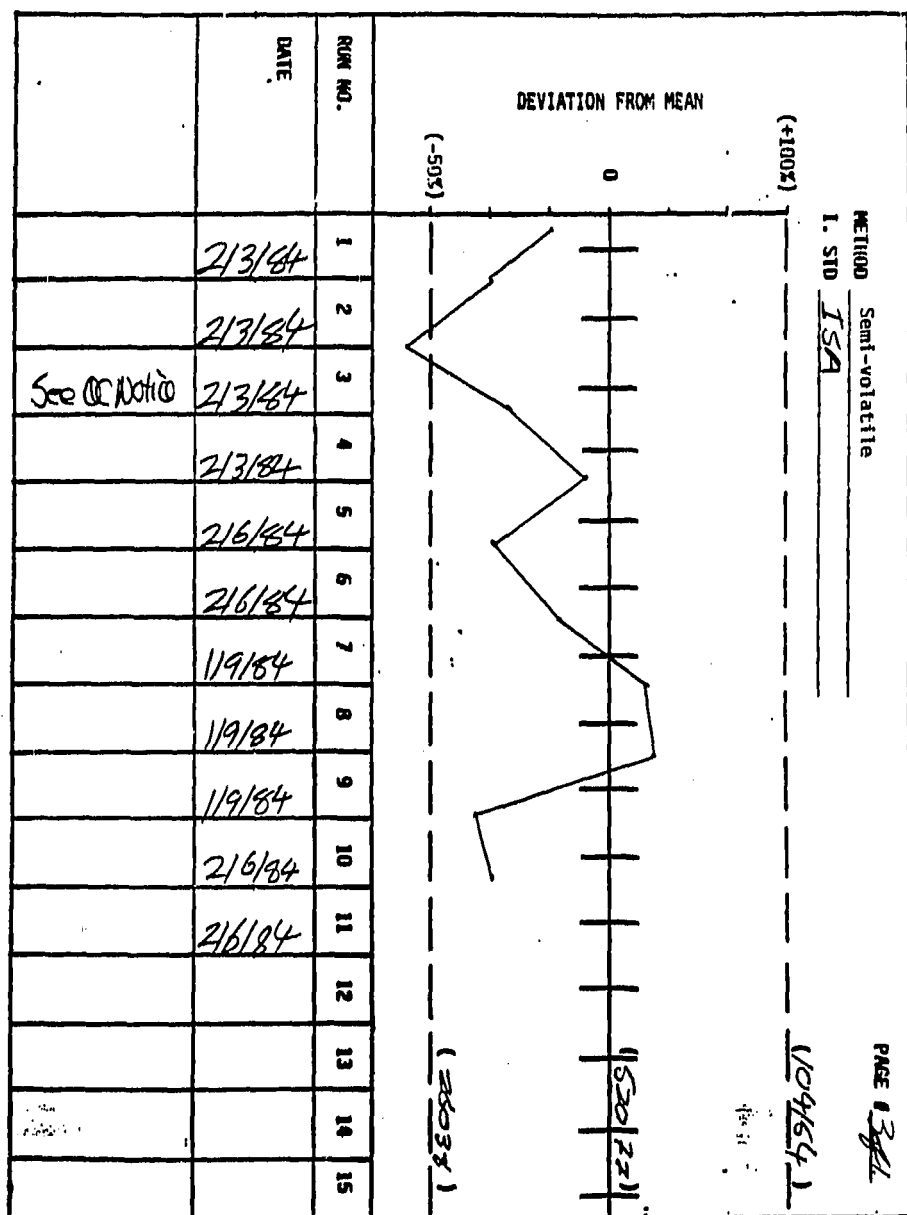
025574



003265

31

025573



METHOD Semi-volatile
 I. STD ISB

PAGE 01422

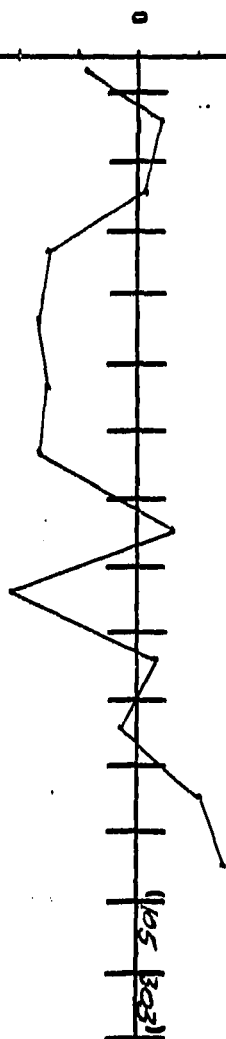
(+100%)

(210606)

DEVIATION FROM MEAN

(-50%)

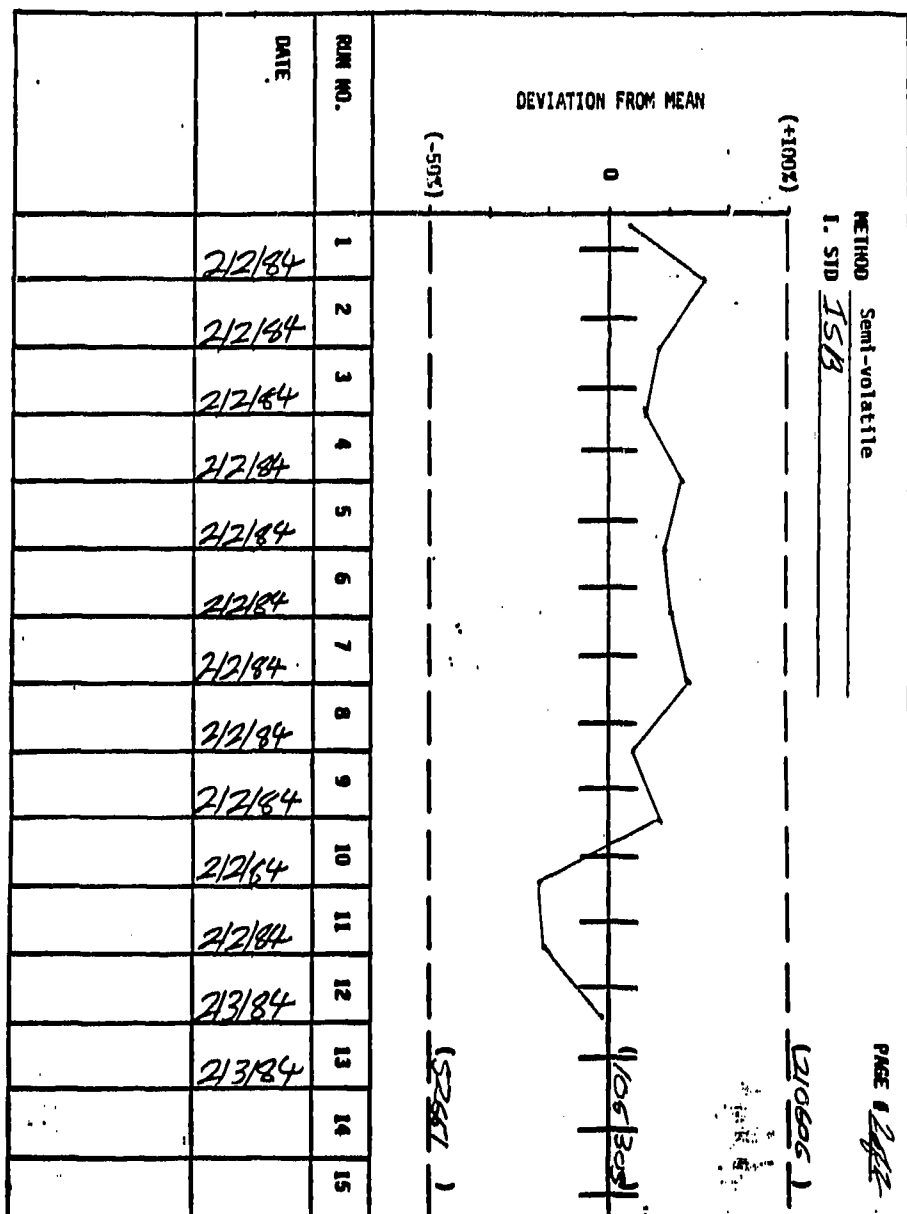
(52661)

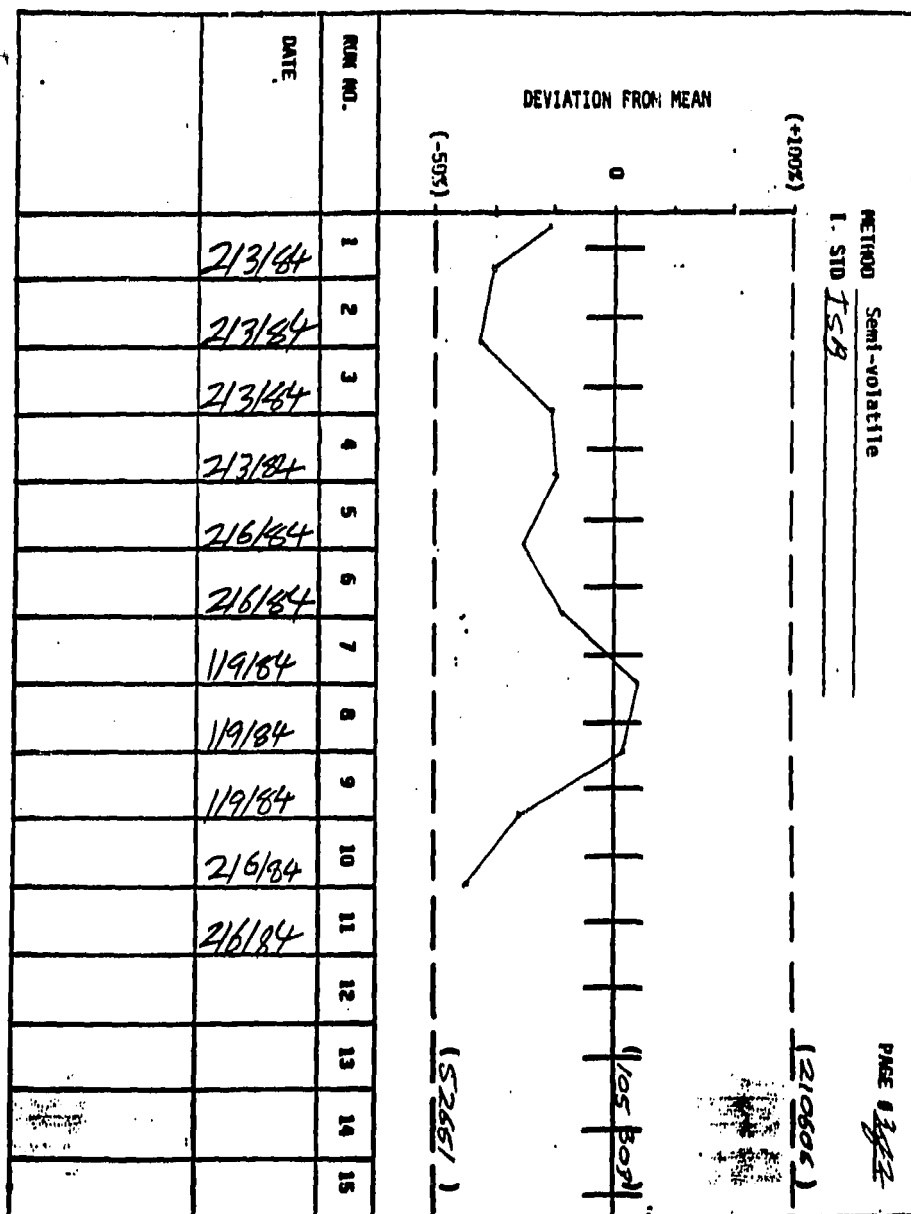


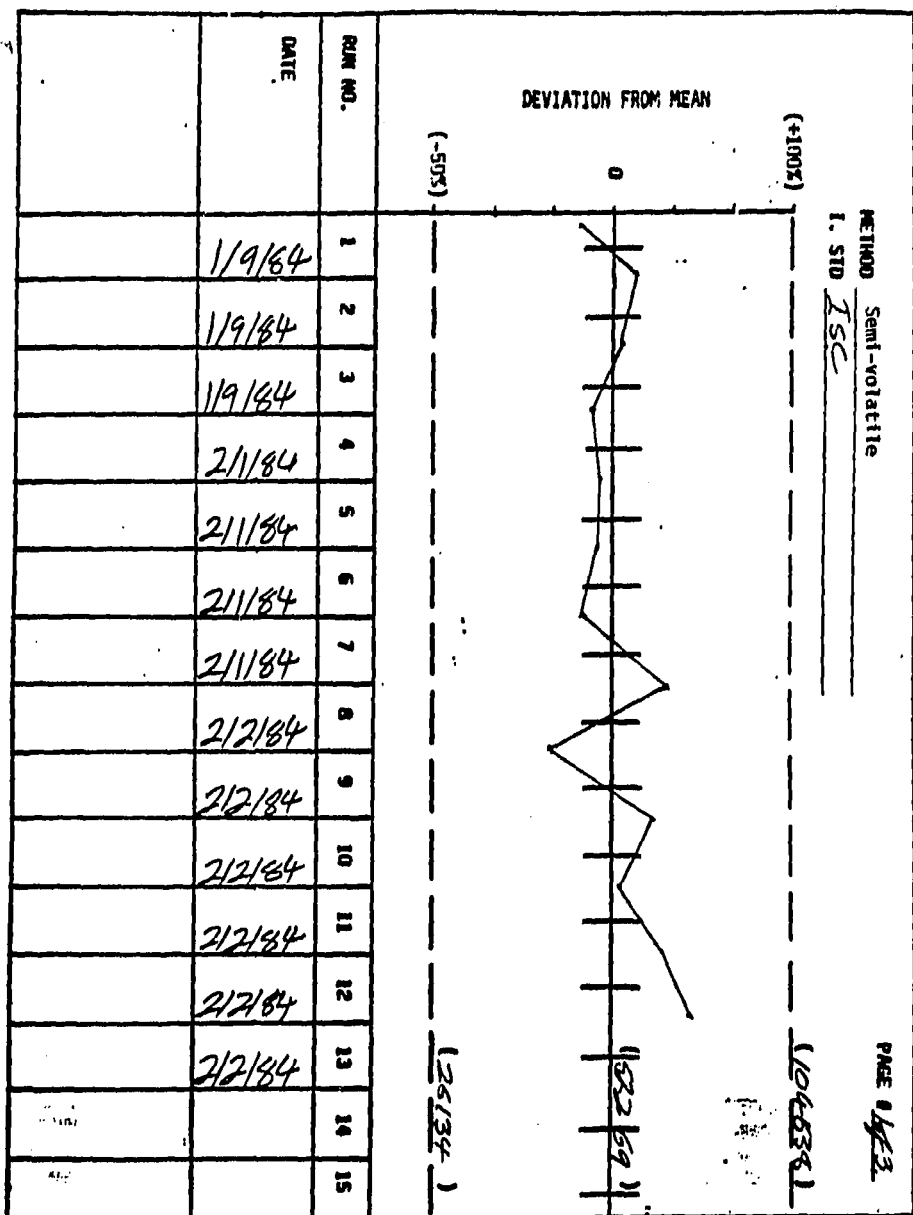
RUN NO.	DATE
1	1/9/84
2	1/9/84
3	1/9/84
4	2/1/84
5	2/1/84
6	2/1/84
7	2/1/84
8	2/2/84
9	2/2/84
10	2/2/84
11	2/2/84
12	2/2/84
13	2/2/84
14	
15	

31

003267
 025577



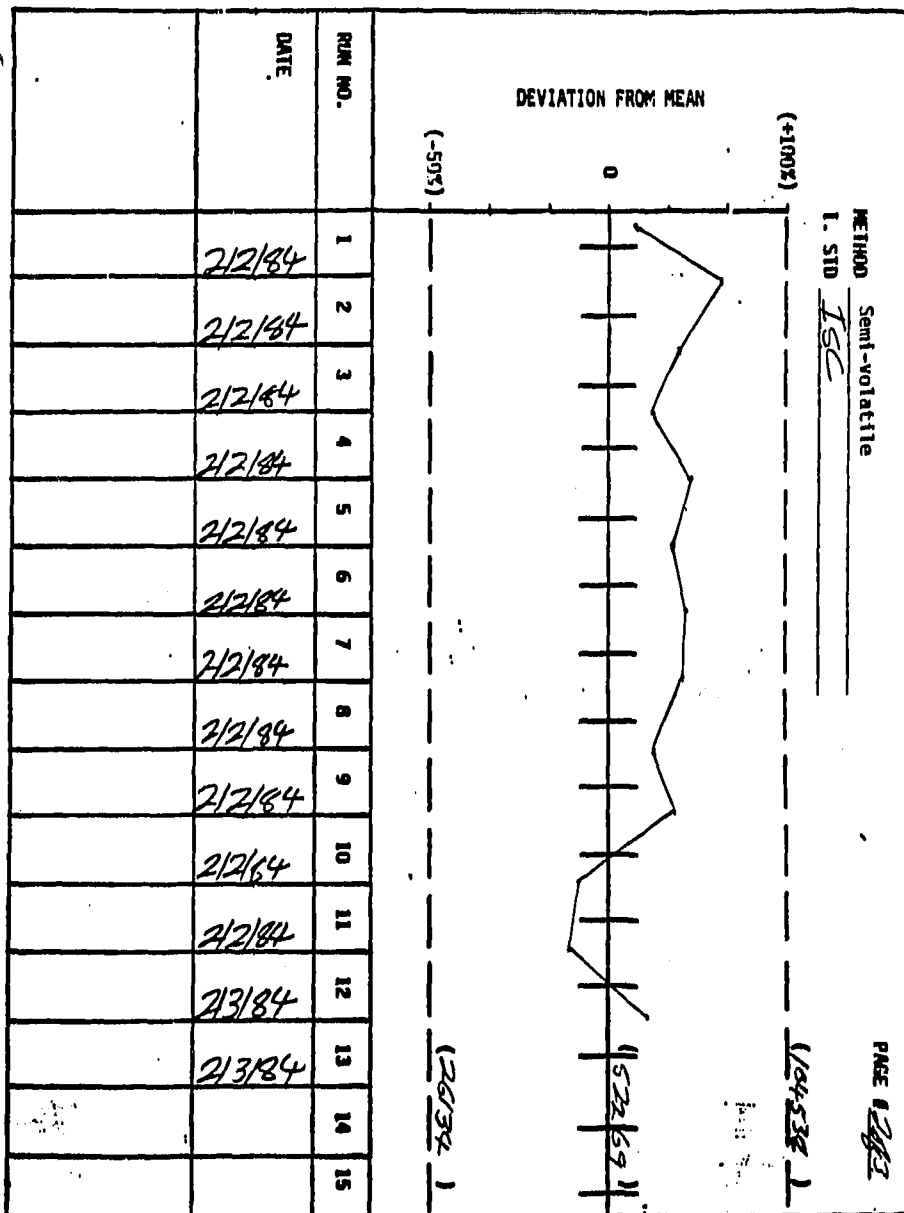




003270

31

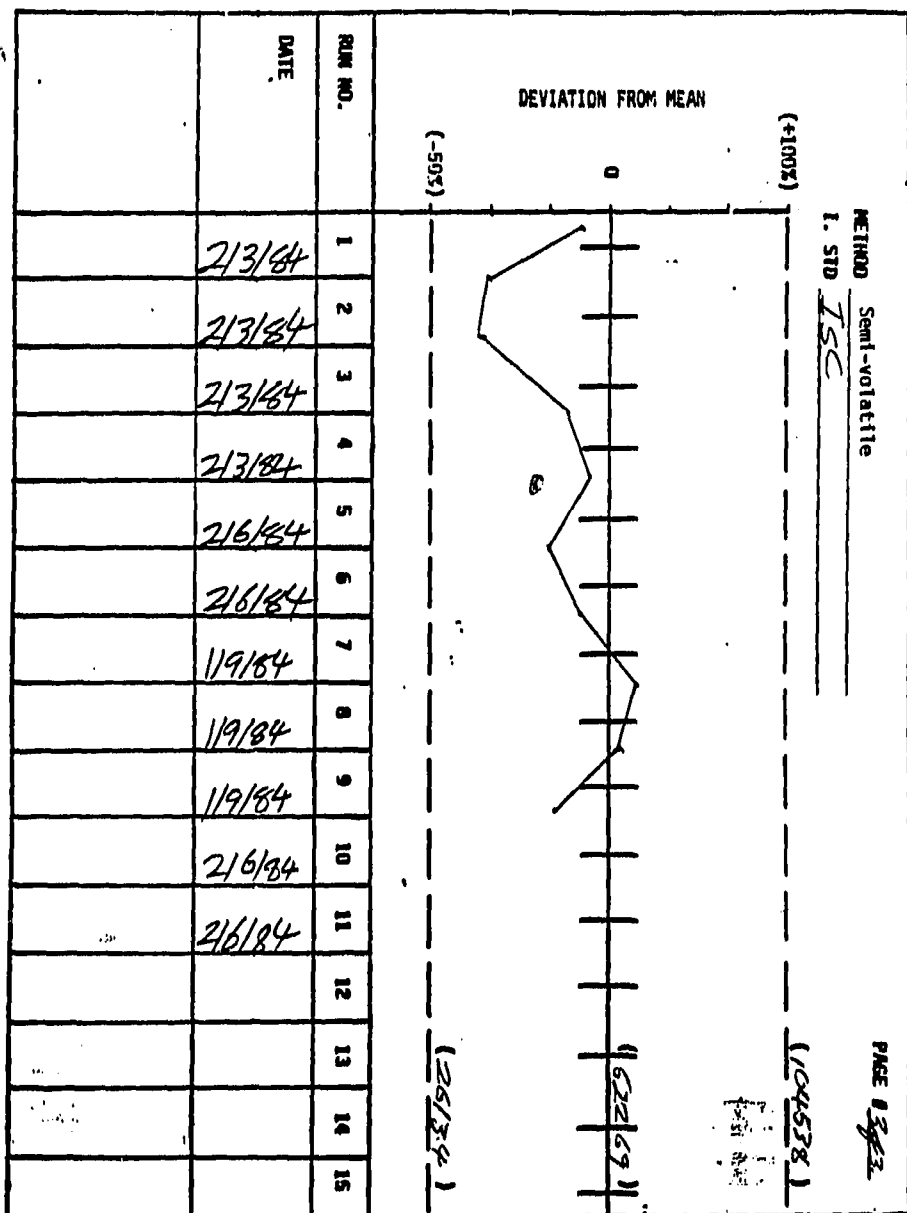
025530



003271

31

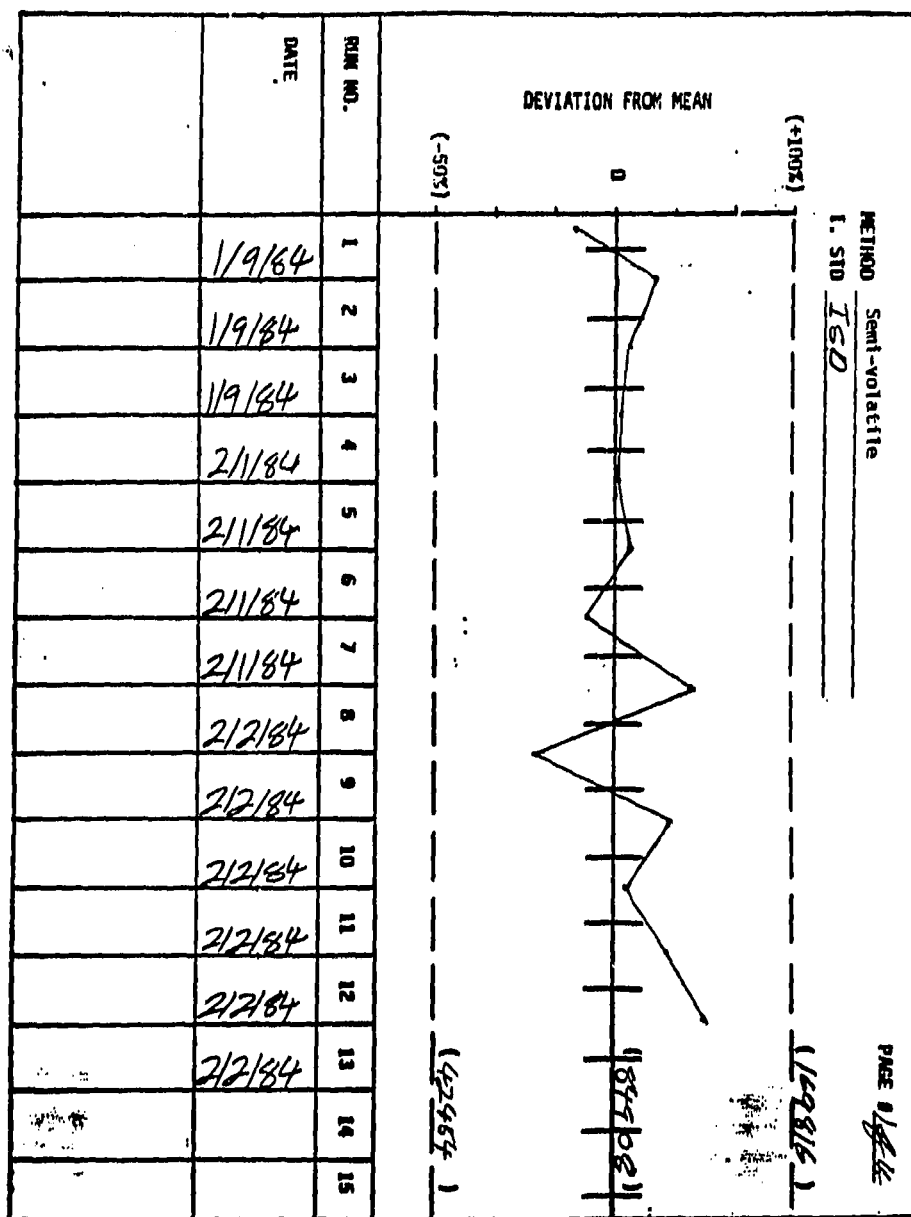
025581



000272

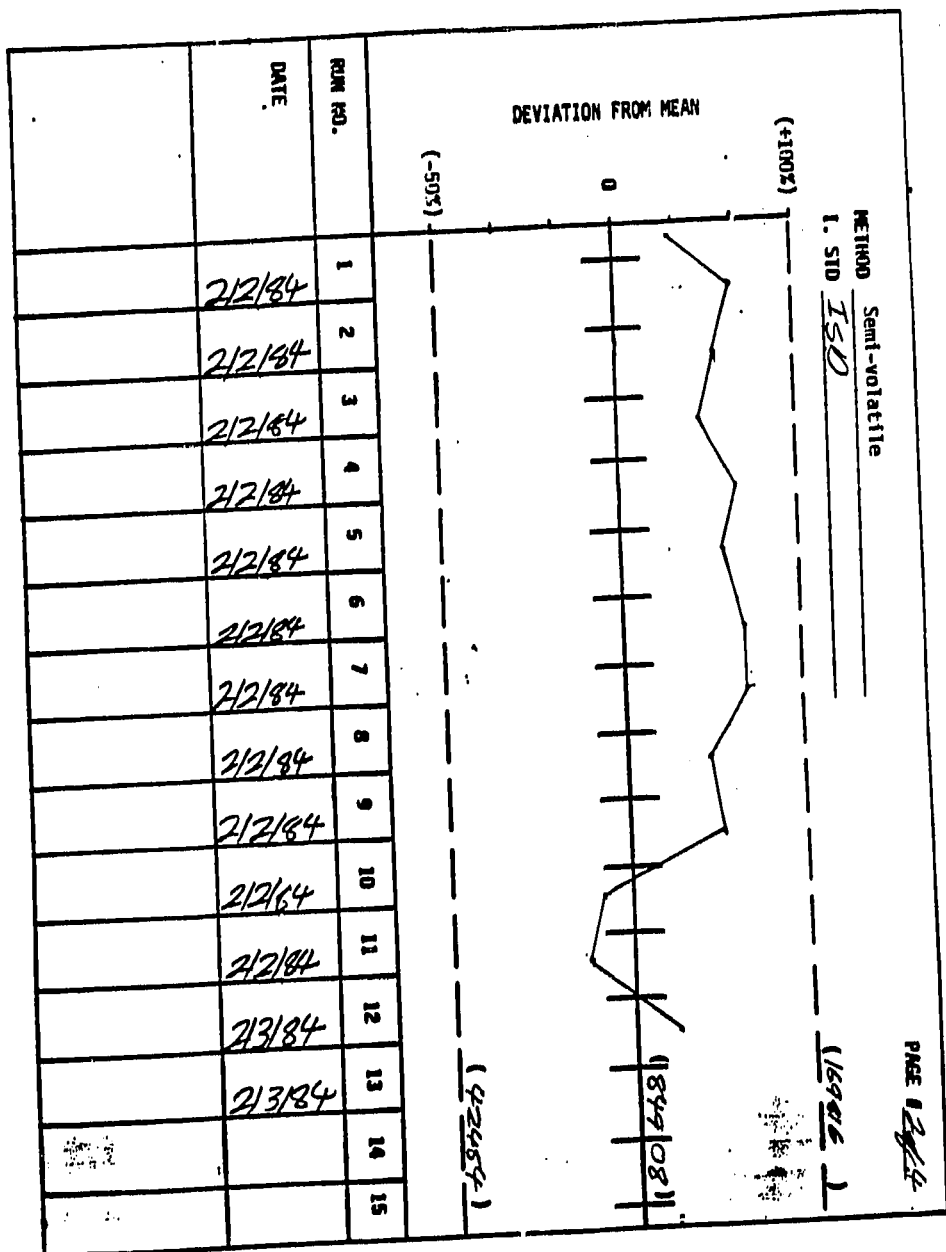
31

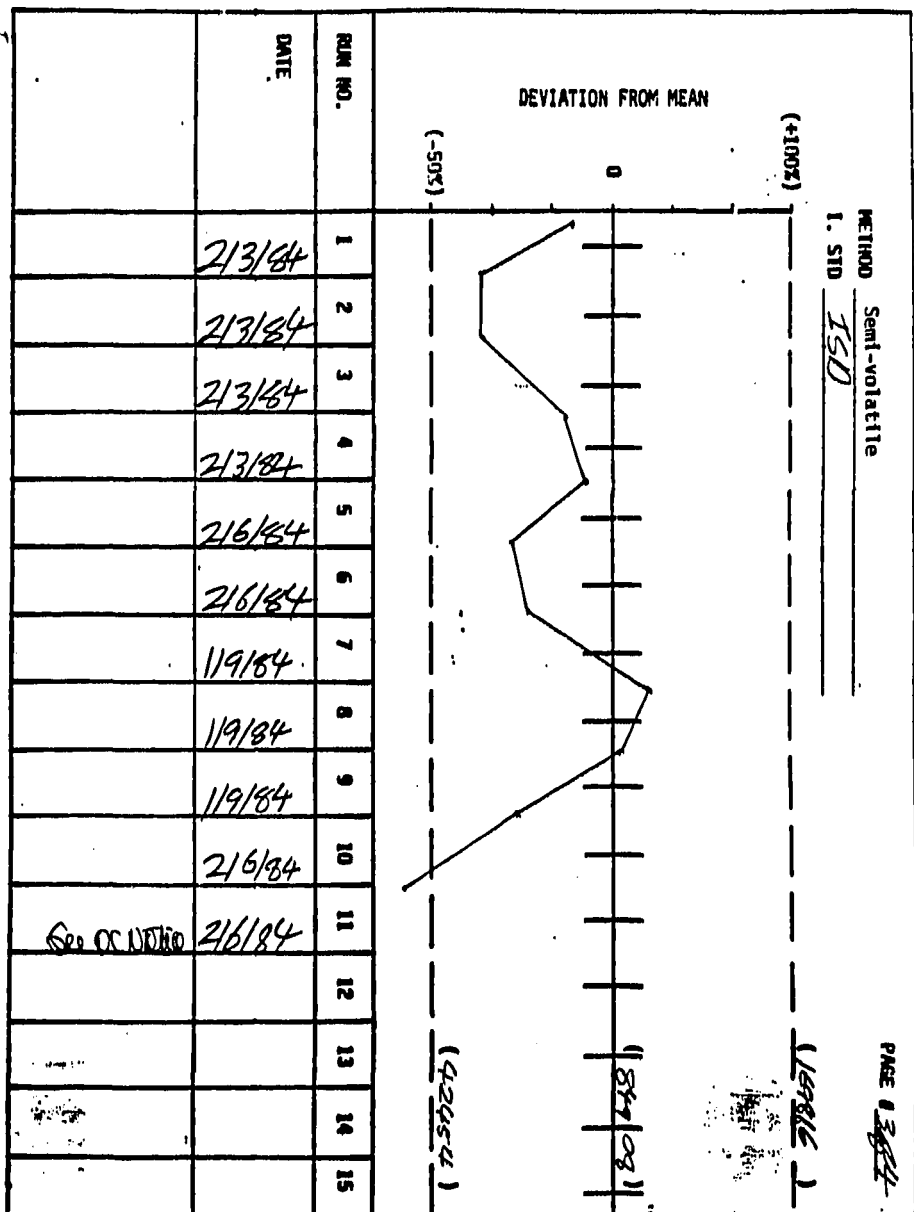
025582

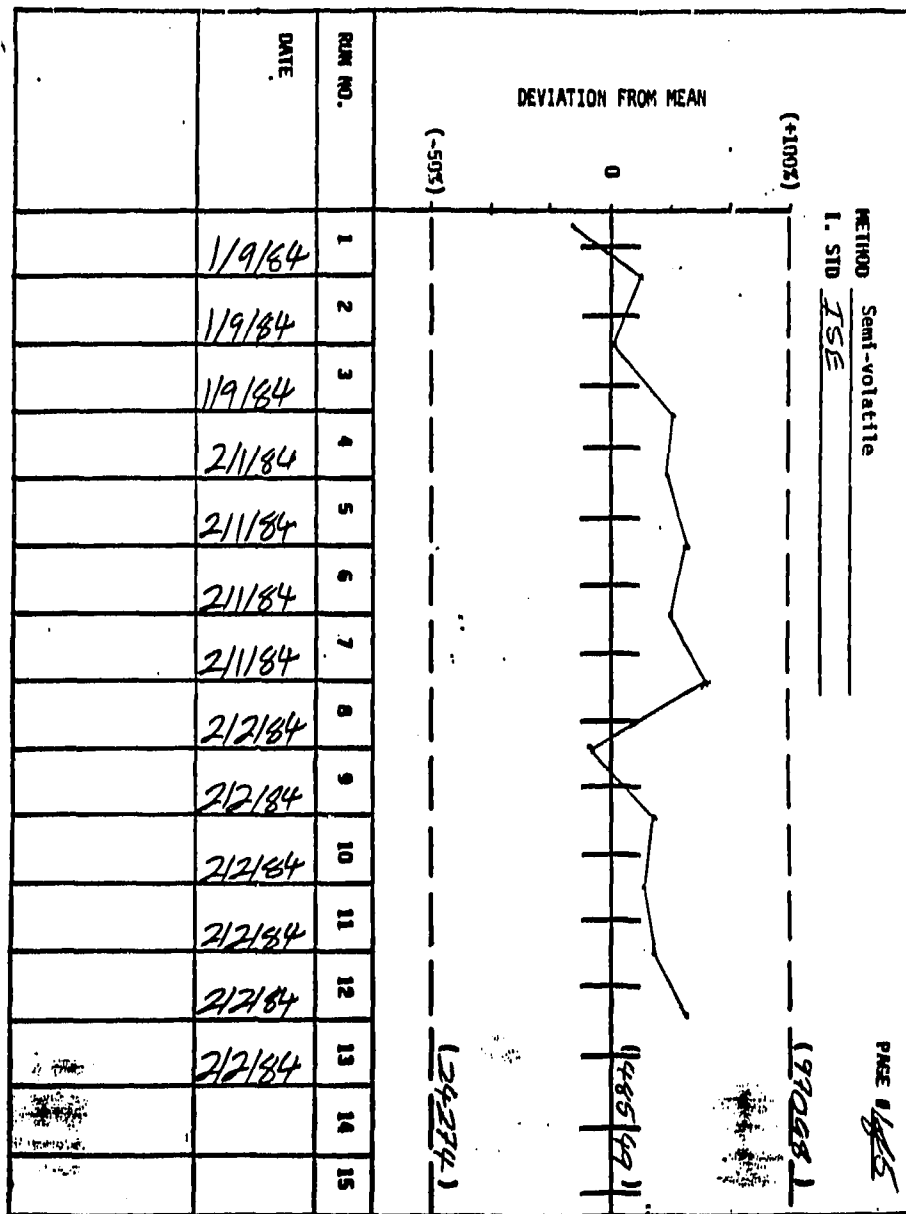


003273

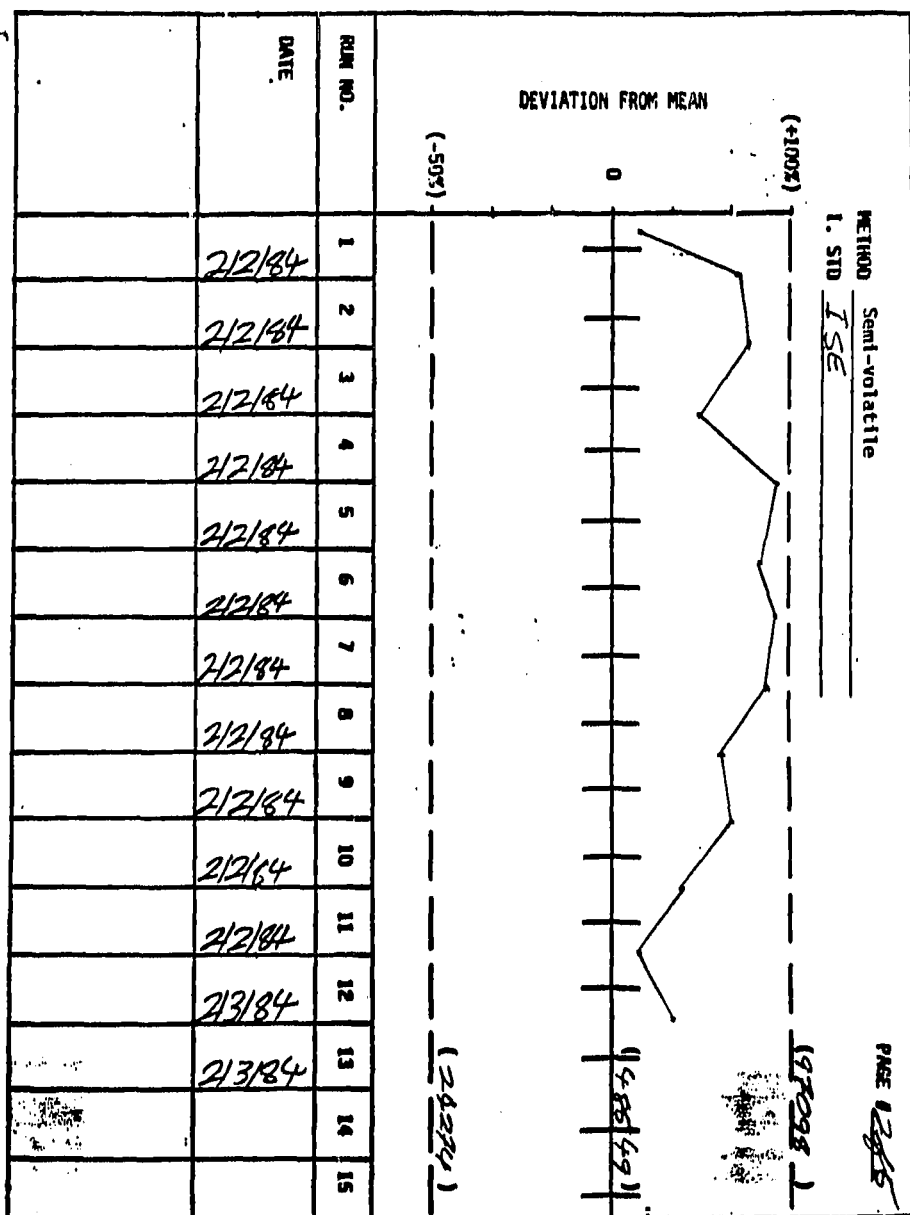
025583

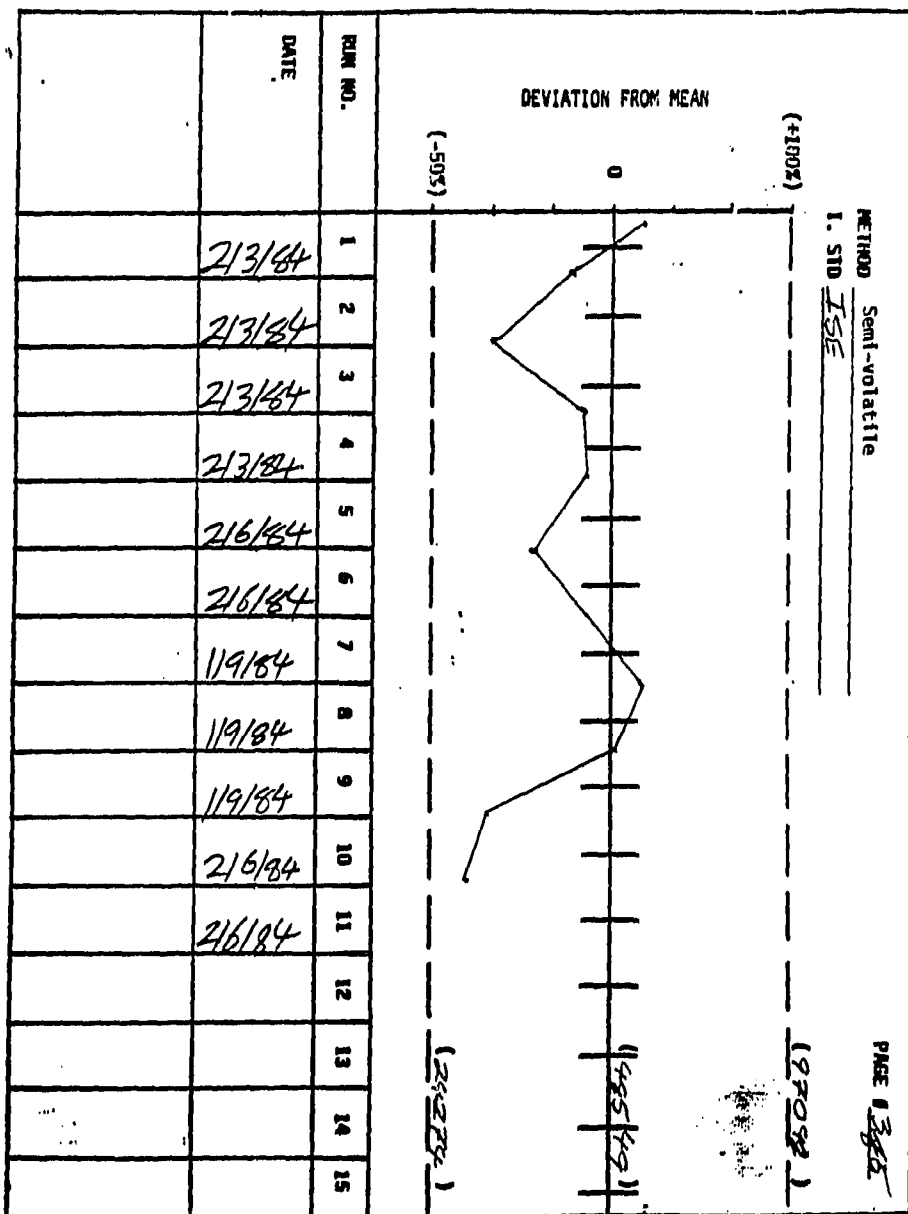


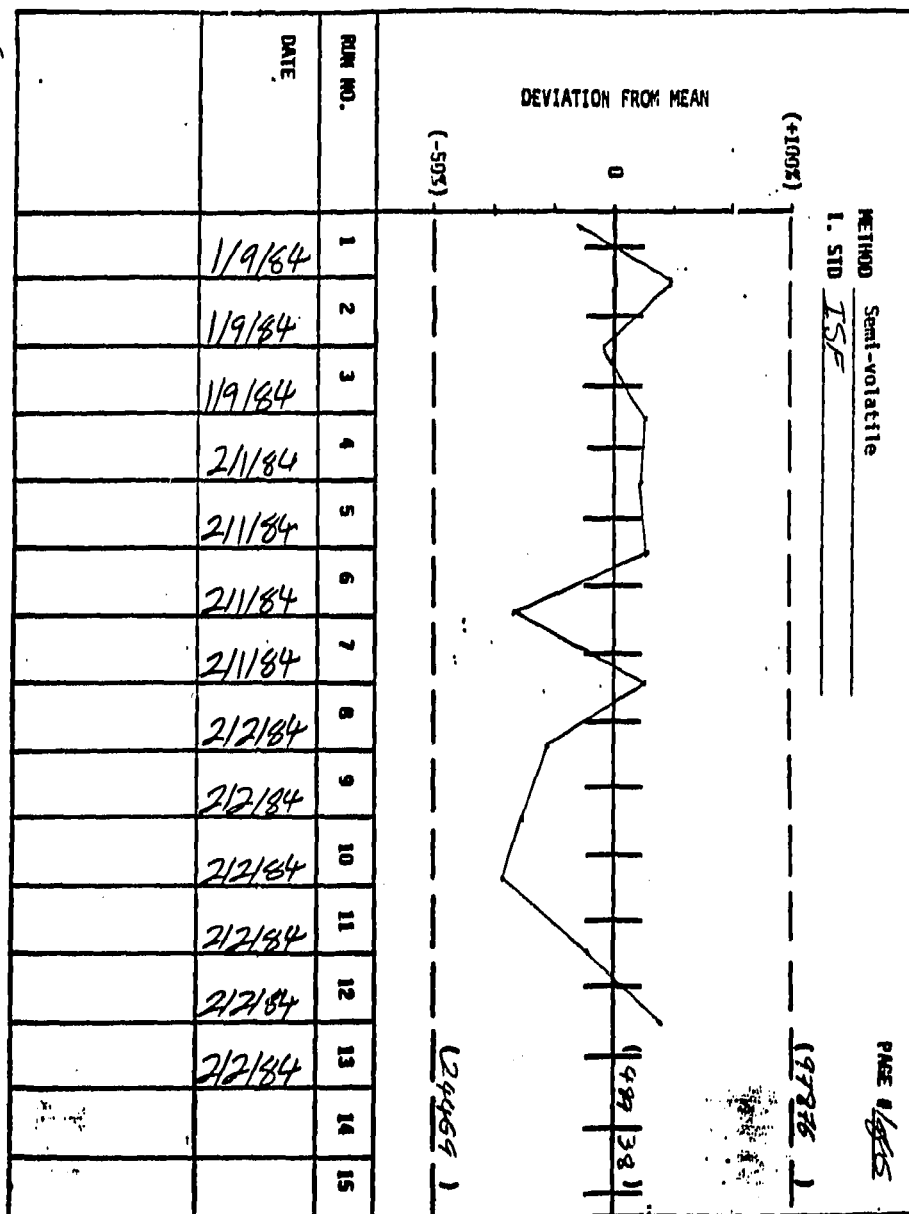




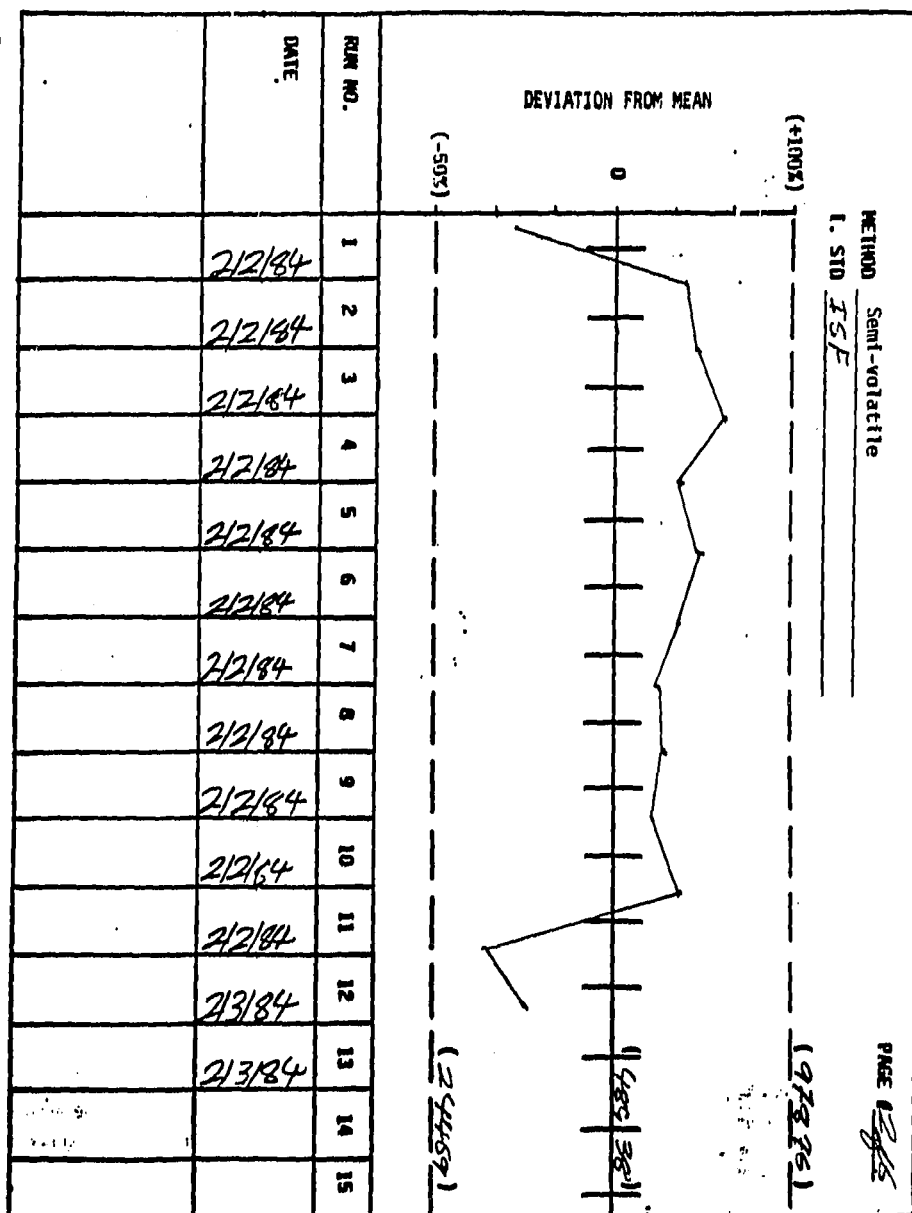
003270
025586







003279



007280
025500

003281
025591

Internal-Standard Response Verification Data Sheet

PAGE 2

Case No. _____ Contractor CompuChem Contract No. 68-01-6762Instrument I.D. DWA_015 D.C. Report No. _____

Sample/Run	Date	ISA		ISB		ISC		ISD		ISE		ISF		R1	R2	R3	R4	R5
		Resp Area	RT	Resp Area	RT	Resp Area	RT	Resp Area	RT	Resp Area	RT	Resp Area	RT					
H1840109A15	010984	46621	.339	99352	.422	47303	.542	76466	.422	44018	.832	41227	1.000	.469	2.100	.619	1.737	1.068
H5840109A15	010984	54274	.339	109833	.422	56275	.542	91749	.422	53073	.831	57294	1.000	.474	1.952	.615	1.729	.926
H4840109A15	010984	55337	.339	106726	.422	53231	.542	86509	.422	48557	.832	48294	1.000	.518	2.005	.615	1.782	1.305
GH019268B15	020184	38957	.335	88181	.424	50018	.553	85349	.424	60981	.862	51983	1.000	.442	1.763	.586	1.400	1.173
SH019268B15	020184	39571	.337	85493	.425	51936	.554	85184	.425	59537	.863	51252	1.000	.463	1.646	.610	1.421	1.162
GH019268B15	020184	38633	.336	87595	.425	50213	.555	86757	.425	62934	.863	52327	1.000	.441	1.744	.579	1.379	1.202
JH019268B15	020184	38192	.336	85311	.425	49230	.554	82557	.425	60528	.863	37151	1.000	.448	1.733	.596	1.364	1.629
GH019450B15	020284	57022	.336	116293	.425	67695	.554	108572	.425	72218	.863	51112	1.000	.490	1.718	.624	1.503	1.417
H5840202C15	020284	39659	.336	76998	.426	41581	.555	68168	.426	46725	.864	40483	1.000	.515	1.952	.610	1.459	1.154
SH019399C15	020284	48762	.336	108678	.426	60735	.555	93409	.426	56275	.864	39677	1.000	.449	1.799	.650	1.660	1.419
SH019406C15	020284	41794	.336	103047	.425	53957	.555	85993	.425	53638	.864	37483	1.000	.406	1.942	.617	1.603	1.431
3J019399C15	020284	53013	.336	124085	.425	65009	.555	93330	.425	55394	.864	44016	1.000	.427	1.709	.697	1.685	1.259
3J019299C15	020284	59372	.336	135696	.425	72464	.555	114598	.425	68134	.864	54999	1.000	.439	1.373	.632	1.682	1.239
SH019407C15	020284	46698	.335	109563	.424	56874	.554	88242	.424	51816	.863	35242	1.000	.426	1.927	.645	1.703	1.470
GH19750A15	020284	47076	.338	158562	.427	82623	.558	134206	.427	84390	.867	74936	1.000	.423	1.919	.616	1.590	1.126
SH019412A15	020284	57233	.336	129870	.425	70188	.554	120917	.425	84965	.863	75922	1.000	.441	1.850	.580	1.423	1.119
H5840202A15	020284	60252	.336	117590	.425	63207	.555	108298	.425	75573	.862	81764	1.000	.512	1.860	.584	1.433	.924
SH019411A15	020284	64678	.338	142216	.428	78922	.558	132093	.428	96614	.865	73481	1.000	.455	1.802	.597	1.367	1.315
3J01935A15	020284	60956	.336	135062	.425	75268	.554	129167	.425	91618	.862	76051	1.000	.451	1.794	.583	1.410	1.205
119410A15	020284	62101	.336	135759	.425	77810	.555	136299	.425	96939	.862	73455	1.000	.457	1.745	.571	1.406	1.320
SH019418A15	020284	62336	.336	141388	.425	77888	.554	138002	.425	96845	.862	68338	1.000	.441	1.815	.564	1.425	1.417
SH019734B15	020284	48834	.336	109518	.425	62021	.554	106505	.425	79051	.863	70467	1.000	.446	1.766	.582	1.347	1.122
SH019819B15	020284	57649	.336	120949	.425	69582	.555	116516	.425	82274	.863	63802	1.000	.477	1.738	.597	1.416	1.290
H5840202B15	020284	44047	.337	84683	.426	47289	.555	80116	.426	63279	.864	72501	1.000	.520	1.791	.590	1.266	.873
H5840203C15	020384	42533	.336	85038	.425	46384	.554	78323	.425	51264	.863	34776	1.000	.500	1.833	.592	1.528	1.474
GH019420C15	020384	46508	.336	104967	.425	59478	.555	99666	.425	60428	.863	41299	1.000	.443	1.735	.597	1.649	1.463
3J019872A15	020384	42430	.337	97672	.425	49824	.555	78940	.425	53545	.863	41974	1.000	.434	1.961	.631	1.474	1.279
H5840203B15	020384	33048	.336	63436	.425	33606	.554	55622	.425	40910	.863	37540	1.000	.521	1.888	.604	1.360	1.090
SR019131B15	020384	14805	.337	57579	.425	32376	.554	55714	.425	34044	.862	17196	1.000	.257	1.779	.581	1.637	1.980
SR019407B15	020384	38230	.336	96476	.424	48323	.553	78189	.424	44427	.861	25276	1.000	.396	1.996	.618	1.760	1.758
H5840206C15	020684	49654	.336	97488	.425	51002	.554	82307	.425	45932	.863	33028	1.000	.509	1.911	.620	1.792	1.291
SR019406C15	020684	33878	.336	83256	.424	43527	.553	68631	.424	38994	.862	22923	1.000	.407	1.913	.634	1.760	1.701

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)

0255922

Internal Standard Response Verification Data Sheet

PAGE 1

Case No. _____ Contractor CompuChem Contract No. 68-01-6762Instrument I.D. DWA_015 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					
H1940109A15	010984	46621	.339	99352	.422	47303	.542	76466	.422	44018	.832	41227	1.000	.469	2.100	.619	1.737	1.068
H6340109A15	010984	54274	.339	109833	.422	56275	.542	91749	.422	53073	.831	57294	1.000	.494	1.952	.613	1.729	.926
FH840109A15	010984	55337	.339	106726	.422	53231	.542	86509	.422	48557	.832	48294	1.000	.518	2.005	.615	1.782	1.005
SR019266C15	020684	31540	.335	79639	.424	42859	.553	70943	.424	37850	.861	10442	1.000	.396	1.858	.605	1.872	3.625
EH019660C15	020684	34951	.335	58057	.424	10649	.550	34852	.424	33376	.860	34999	1.000	.602	5.452	.306	1.944	.954

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)

Calibration Check Report - Semi-volatile HSL Compounds

Page 1

Instrument No. _____
 Instrument Identifier: OMA 815
 Standard File HSR10202215
 Maximum ZD for CCC is 20.00

Contractor: CompuChem
 Minimum RF for SPCC is 0.050

Contract No. 68-01-6762
 Calibration Date 01/07/84
 Date 02/02/84 Time 01:57

Compound	Avg RF	RF	ZD	CCC	SPCC
N-NITROSDIMETHYLAMINE	0.734	0.436	-50.740		
BIS (2-CHLOROETHYL) ETHER	1.215	0.794	-21.000		
2-CHLOROPHENOL	0.831	0.726	-13.400		
PHENOL	1.324	0.844	-42.040		
1,3-DICHLOROBENZENE	0.872	0.845	-3.140		
1,4-DICHLOROBENZENE	0.947	0.931	-1.700		
1,2-DICHLOROBENZENE	0.840	0.851	1.300		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.281	-16.630		
HEXACHLOROETHANE	0.401	0.428	6.510		
N-NITROSDI-N-PROPYLAMINE	0.168	0.151	-10.650		
NITROBENZENE	0.463	0.347	-23.130		
ISOPHORONE	0.954	0.806	-16.810		
2-NITROPHENOL	0.183	0.190	3.750		
2,4-DIMETHYLPHENOL	0.331	0.318	-9.840		
BIS (2-CHLOROETHOXY) METHANE	0.607	0.470	-23.440		
2,4-DICHLOROPHENOL	0.250	0.275	6.370		
1,2,4-TRICHLOROBENZENE	0.267	0.336	22.880		
NAPHTHALENE	1.189	1.141	-4.120		
HEXACHLOROCYCLOPENTADIENE	0.146	0.183	22.470		
LONG-N-CRESOL	0.452	0.404	-11.210		
HEXACHLOROXYCLOPENTADIENE	0.092	0.075	-20.330		
2,4,6-TRICHLOROPHENOL	0.340	0.175	-102.070		
2-CHLORONAPHTHALENE	1.126	1.153	2.540		
ACENAPHTHYLENE	1.015	1.453	33.490		
DIMETHYL PHTHALATE	1.334	1.391	4.180		
2,4-DINITROTOLUENE	0.428	0.282	-41.120		
ACENAPHTHENE	1.172	1.127	-3.910		
2,4-DINITROPHENOL	0.042	0.037	-12.630		
2,4-DINITROTOLUENE	0.409	0.384	-6.300		
4-NITROPHENOL	0.135	0.020	-154.280		
FLUORENE	1.283	1.264	-1.470		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.498	10.340		
DIMETHYL PHTHALATE	1.704	1.335	-9.140		
4,6-DINITRO-8-CRESOL	0.000	0.129	46.880		
N-NITROSDIPHENYLAMINE	0.391	0.581	39.070		
1,2-DIPHENYLDIAZINE	2.611	1.731	-29.740		
4-BROMOPHENYL PHENYL ETHER	0.178	0.182	2.220		
HEXACHLOROBENZENE	0.178	0.222	11.420		
PENTACHLOROPHENOL	0.090	0.066	-4.540		
PHENANTHRENE	1.014	1.054	3.840		
ANTHRACENE	0.947	1.031	8.470		
DI-N-BUTYL PHTHALATE	1.699	1.571	-7.620		
FLUORANTHRENE	1.030	1.118	8.510		
PYRENE	1.647	1.609	-14.430		
DECAZINE	0.000	0.000	0.000		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

ZD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an *)

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

31

003284
025594

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Job No. _____
 Instrument Identifier OWA 815
 Standard File MS840202C15
 Maximum ZD for CCC is 20.00

Contractor CompuChem
 Minimum RF for SPCC is 0.050

Contract No. 68-01-6762
 Calibration Date 01/09/84
 Date 02/02/84 Time 01:59

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	1.107	0.910	-19.530		
BENZO (A) ANTHRACENE	1.420	1.147	-21.240		
CHRYSENE	1.179	1.407	15.910		
3,3'-BICHLOROMENZIDINE	0.016	0.009	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.493	1.298	-13.970		
DI-N-OCTYL PHTHALATE	2.582	2.196	-16.150	*	
3,4-BENZOFLUORANTHENE	1.114	1.100	6.420		
BENZO (K) FLUORANTHENE	0.973	1.183	19.270		
BENZO (A) PYRENE	0.990	1.040	4.120	*	
INDENO (1,2,3-CD) PYRENE	0.571	0.470	-19.400		
DIBENZO (A,H) ANTHRACENE	0.705	0.332	-71.930		
BENZO (GHI) PERYLENE	0.081	0.305	-77.130		
ANILINE	1.196	0.265	-127.440		
BENZOIC ACID	0.200	0.224	11.320		
BENZYL ALCOHOL	0.550	0.291	-41.590		
4-CHLORANILINE	0.140	0.127	-9.730		
DIBENZOFURAN	1.657	1.657	0.000		
2-METHYLNAPHTHALENE	0.307	0.336	14.780		
D-CRESOL	0.804	0.696	-14.400		
ISOL	0.001	0.700	-21.770		
2-NITROANILINE	0.041	0.011	-115.300		
3-NITROANILINE	0.429	0.330	-23.720		
4-NITROANILINE	0.070	0.023	-94.730		
2,4,5-TRICHLOROPHENOL	0.150	0.180	18.180		

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 an #)

31

007285
 025595

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Sample No. _____ Contractor CompuChem Contract No. 168-01-6742
 Instrument Identifier OWA 015 Calibration Date 01/09/84
 Standard File H0840202A15 Date 02/02/84 Time 11:03
 Maximum SD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	SD	CCC	SPCC
N-NITROSDIMETHYLAMINE	0.734	0.502	-37.540		
BIS (2-CHLOROETHYL) ETHER	1.215	1.074	-10.180		
2-CHLOROPHENOL	0.831	0.764	-6.400		
PHENOL	1.324	1.033	-24.670	*	
1,3-DICHLOROBENZENE	0.872	0.843	-3.390		
1,4-DICHLOROBENZENE	0.947	0.928	-2.620	*	
1,2-DICHLOROBENZENE	0.840	0.841	0.110		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.283	-15.930		
HEXACHLOROETHANE	0.401	0.401	0.000		
N-NITROSDI-N-PROPYLAMINE	0.160	0.162	-3.630		**
NITROBENZENE	0.463	0.413	-11.410		
ISOPHORONE	0.954	0.840	-12.700		
2-NITROPHENOL	0.183	0.206	11.820	*	
2,4-DIMETHYLPHENOL	0.351	0.325	-7.690		
BIS (2-CHLOROETHOXY) METHANE	0.607	0.475	-26.320		
2,4-DICHLOROPHENOL	0.258	0.285	9.940	*	
1,2,4-TRICHLOROBENZENE	0.267	0.334	22.290		
NAPHTHALENE	1.189	1.108	-7.050		
HEXACHLOROCYCLOPENTADIENE	0.146	0.181	21.400	*	
2,4,6-TRICHLOROPHENOL	0.432	0.418	-7.810	*	
2,4-DICHLOROPHTHALATE	0.072	0.053	-30.340		**
2,4,6-TRICHLOROPHENOL	0.540	0.213	-86.850	*	
2-CHLORONAPHTHALENE	1.124	1.160	2.970		
ACENAPHTHYLENE	1.015	1.271	22.390		
DIMETHYL PHTHALATE	1.334	1.391	4.180		
2,4-DINITROTOLUENE	0.428	0.292	-37.770		
ACENAPHTHENE	1.172	1.108	-3.610	*	
2,4-DINITROPHENOL	0.042	0.044	4.630		**
2,4-DINITROTOLUENE	0.409	0.443	8.430		
4-NITROPHENOL	0.155	0.049	-103.920		**
FLUORENE	1.283	1.242	-3.240		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.478	6.250		
DIETHYL PHTHALATE	1.704	1.634	-4.190		
4,6-DINITRO-O-CRESOL	0.080	0.129	46.880		
N-NITROSDIPHENYLAMINE	0.391	0.534	36.910	*	
1,2-DIPHENYLHYDRAZINE	2.611	1.935	-29.740		
4-BROMOPHENYL PHENYL ETHER	0.178	0.184	3.310		
HEXACHLOROBENZENE	0.198	0.225	12.760		
PENTACHLOROPHENOL	0.070	0.105	13.380	*	
PHENANTHRENE	1.014	1.182	8.310		
ANTHRACENE	0.947	0.930	0.310		
DI-N-BUTYL PHTHALATE	1.679	1.601	-5.930		
FLUORANTHENE	1.038	1.100	3.070	*	
PYRENE	1.849	1.578	-16.320		
BENZIDINE	0.000	0.000	0.000		**

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

SD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an *)

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

000286

31

025596

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Sample No. _____
 Instrument Identifier: DMA 815
 Standard File H0840202A15
 Maximum ZD for CCC is 20.00

Contractor: CompuChem
 Minimum RF for SPCC is 0.050

Contract No. 68-01-6762
 Calibration Date 01/09/84
 Date 02/02/84 Time 11:03

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	1.107	0.944	-15.870		
BENZO (A) ANTHRACENE	1.420	1.339	-5.870		
CHRYSENE	1.199	1.187	-1.000		
3,3'-BICHLOROBENZIDINE	0.016	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.493	1.327	-11.770		
DI-N-OCTYL PHTHALATE	2.582	2.353	-9.190		
3,4-BENZOFLUORANTHENE	1.114	1.176	5.410		
BENZO (K) FLUORANTHENE	0.975	0.921	-5.690		
BENZO (A) PYRENE	0.998	0.989	-0.900		
INDENO (1,2,3-CD) PYRENE	0.571	0.488	-15.670		
DIBENZO (A,H) ANTHRACENE	0.705	0.376	-60.840		
BENZO (GHI) PERYLENE	0.881	0.289	-101.190		
ANILINE	1.196	0.701	-52.180		
BENZOIC ACID	0.200	0.148	-29.880		
BENZYL ALCOHOL	0.350	0.374	-33.050		
4-CHLOROANILINE	0.140	0.206	38.150		
DIBENZOFURAN	1.657	1.653	-0.240		
2-METHYLNAPHTHALENE	0.307	0.344	11.940		
O-CRESOL	0.804	0.714	-11.850		
RESOL	0.881	0.765	-14.070		
4-NITROANILINE	0.041	0.025	-48.480		
3-NITROANILINE	0.429	0.277	-43.050		
4-NITROANILINE	0.070	0.013	-157.340		
2,4,5-TRICHLOROPHENOL	0.150	0.164	10.120		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

ZD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an X)

SPCC - System Performance Check Compounds (these compounds flagged with an S)

31

025597

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Contract No. _____
 Instrument Identifier: DNA 815
 Standard File H0840202B15
 Maximum SD for CCC is 20.00

Contractor: CompuChem
 Minimum RF for SPC is 0.050

Contract No. 108-01-6762
 Calibration Date 01/09/84
 Date 02/02/84 Time 20:03

Compound	Avg RF	RF	SD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.734	0.389	-61.440		
BIS (2-CHLOROETHYL) ETHER	1.215	1.044	-15.130		
2-CHLOROPHENOL	0.831	0.720	-13.210		
PHENOL	1.324	0.709	-37.160	*	
1,3-DICHLOROBENZENE	0.872	0.853	-1.760		
1,4-DICHLOROBENZENE	0.947	0.932	0.320	*	
1,2-DICHLOROBENZENE	0.840	0.841	0.110		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.283	-15.230		
HEXACHLOROETHANE	0.401	0.394	-1.250		
N-NITROSODI-N-PROPYLAMINE	0.160	0.157	-3.500		**
NITROBENZENE	0.443	0.371	-22.040		
ISOPHORBONE	0.954	0.809	-16.440		
2-NITROPHENOL	0.183	0.180	-1.630	*	
2,4-DIMETHYLPHENOL	0.331	0.317	-10.170		
BIS (2-CHLOROETHOXY) METHANE	0.607	0.461	-27.340		
2,4-DICHLOROPHENOL	0.238	0.277	7.820	*	
1,2,4-TRICHLOROBENZENE	0.267	0.346	25.770		
NAPHTHALENE	1.189	1.121	-5.880		
1-CHLOROBUTYLENE	0.146	0.186	24.090	*	
1-CHLORO-N-CRESOL	0.432	0.399	-12.450	*	
HEXACHLOROCYCLOPENTADIENE	0.072	0.040	-42.100		**
2,4,6-TRICHLOROPHENOL	0.340	0.184	-18.340	*	
2-CHLORONAPHTHALENE	1.126	1.116	-0.870		
ACENAPHTHYLENE	1.015	1.400	31.880		
DIMETHYL PHTHALATE	1.334	1.374	2.750		
2,6-DINITROTOLUENE	0.428	0.281	-41.460	*	
ACENAPHTHENE	1.172	1.094	-6.880	*	
2,4-DINITROPHENOL	0.042	0.043	2.350		**
2,4-DINITROTOLUENE	0.409	0.407	-0.470		
4-NITROPHENOL	0.153	0.018	-158.380		**
FLUORENE	1.283	1.232	-4.050		
4-CHLOROPHENYL PHENYL ETHER	0.447	0.502	11.140		
DIETHYL PHTHALATE	1.704	1.578	-7.470		
4,6-DINITRO-N-CRESOL	0.080	0.115	33.870		
N-NITROSODIPHENYLAMINE	0.391	0.348	33.430	*	
1,2-DIPHENYLHYDRAZINE	2.611	1.817	-33.860		
4-BROMOPHENYL PHENYL ETHER	0.178	0.184	4.370		
HEXACHLOROBENZENE	0.198	0.223	12.760		
PENTACHLOROPHENOL	0.070	0.077	7.480	*	
PHENANTHRENE	1.014	1.066	5.000		
ANTHRACENE	0.947	1.004	5.840		
DI-N-BUTYL PHTHALATE	1.499	1.624	-4.510		
FLUORANTHRENE	1.030	1.150	8.330	*	
PYRENE	1.849	1.460	-23.510		
PERYLENE	0.000	0.000	0.000		**

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

SD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an *)

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

003283

31 025593

Calibration Check Report - Semivolatile HSL Compounds

Page 2

C-2 No. _____ Contractor CompuChem Contract No. 62-01-6762
 Instrument Identifier OWA 915 Calibration Date 01/09/84
 Standard File HSR40202B15 Date 02/02/84 Time 20:03
 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	0.913	-19.200		
BENZO (A) ANTHRACENE	1.420	1.200	-16.150		
CHRYSENE	1.177	1.204	4.840		
3,3'-DICHLOROBENZIDINE	0.016	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.473	1.214	-20.610		
DI-N-OCTYL PHTHALATE	2.582	2.202	-15.000		
3,4-BENZOFLUORANTHENE	1.114	1.063	-4.470		
BENZO (K) FLUORANTHENE	0.973	1.053	7.890		
BENZO (A) PYRENE	0.970	0.960	-3.050		
INDENO (1,2,3-CD) PYRENE	0.571	0.433	-27.470		
DIBENZO (A,H) ANTHRACENE	0.703	0.349	-42.560		
BENZO (BHI) PERYLENE	0.881	0.333	-85.570		
ANILINE	1.174	0.474	-64.120		
BENZOIC ACID	0.200	0.203	1.400		
BENZYL ALCOHOL	0.330	0.311	-35.310		
4-CHLORANILINE	0.140	0.167	17.500		
DIBENZOFURAN	1.657	1.623	-2.070		
2-METHYLNAPHTHALENE	0.307	0.340	12.310		
O-CRESOL	0.804	0.671	-18.030		
1-TOL	0.801	0.703	-22.470		
2-NITRONILINE	0.041	0.017	-82.750		
3-NITRONILINE	0.429	0.322	-28.470		
4-NITRONILINE	0.070	0.033	-64.660		
2,4,5-TRICHLOROPHENOL	0.150	0.102	19.270		

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 e)
 SPCC - System Performance Check Compounds (those compounds flagged with es)

31

 000000
 025593

Calibration Check Report - Semivolatiles HSL Compounds

Page 1

Sample No. _____ Contractor CompuChem Contract No. 68-01-6762
 Instrument Identifier DNA 815 Calibration Date 01/09/84
 Standard File 168840203C15 Date 02/03/84 Time 05:37
 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	0.433	-31.150		
BIS (2-CHLOROETHYL) ETHER	1.215	1.006	-18.820		
2-CHLOROPHENOL	0.831	0.728	-13.210		
PHENOL	1.324	0.983	-37.800	0	
1,3-DICHLOROBENZENE	0.872	0.863	-1.630		
1,4-DICHLOROBENZENE	0.947	0.939	-0.840	0	
1,2-DICHLOROBENZENE	0.840	0.847	0.820		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.272	-19.840		
HEXACHLOROETHANE	0.401	0.416	3.670		
N-NITROSODI-N-PROPYLAMINE	0.168	0.148	-12.650		00
NITROBENZENE	0.463	0.383	-18.910		
ISOPHORONE	0.954	0.784	-19.540		
2-NITROPHENOL	0.183	0.196	4.840	0	
2,4-DIMETHYLPHENOL	0.331	0.311	-12.080		
BIS (2-CHLOROETHOXY) METHANE	0.607	0.439	-27.740		
2,4-DICHLOROPHENOL	0.258	0.277	7.100	0	
1,2,4-TRICHLOROBENZENE	0.267	0.337	23.170		
NAPHTHALENE	1.189	1.108	-7.050		
HEXACHLOROCYCLOPENTADIENE	0.146	0.187	21.620	0	
CHLORO-N-CRESOL	0.452	0.396	-13.200	0	
HEXACHLOROCHLOROCYCLOPENTADIENE	0.092	0.075	-20.350		00
2,4,6-TRICHLOROPHENOL	0.540	0.175	-102.070	0	
2-CHLORONAPHTHALENE	1.124	1.140	1.230		
ACENAPHTYLENE	1.015	1.794	53.440		
DIMETHYL PHTHALATE	1.334	1.343	0.670		
2,6-DINITROTOLUENE	0.428	0.282	-41.120		
ACENAPHTHENE	1.172	1.082	-7.990	0	
2,4-DINITROPHENOL	0.042	0.040	-4.870		00
2,4-DINITROTOLUENE	0.409	0.402	-1.720		
4-NITROPHENOL	0.153	0.057	-122.910		00
FLUORENE	1.283	1.246	-2.920		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.490	8.730		
DIEETHYL PHTHALATE	1.704	1.336	-9.070		
4,6-DINITRO-N-CRESOL	0.080	0.152	49.050		
N-NITROSODIPHENYLAMINE	0.391	0.827	71.390	0	
1,2-DIPHENYLHYDRAZINE	2.611	1.939	-28.330		
4-BROMOPHENYL PHENYL ETHER	0.178	0.189	3.990		
HEXACHLOROBENZENE	0.198	0.232	13.810		
PENTACHLOROPHENOL	0.090	0.089	-1.110	0	
PHENANTHRENE	1.014	1.062	4.620		
ANTHRACENE	0.947	1.013	6.730		
DI-N-BUTYL PHTHALATE	1.699	1.397	-6.100		
FLUORANTHENE	1.030	1.108	4.610	0	
PYRENE	1.849	1.712	-7.690		
BENZIDINE	0.000	0.000	200.000		00

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

ZD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an 0)

SPCC - System Performance Check Compounds (these compounds flagged with 00)

31

003200

025600

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Sample No. _____ Contractor CompuChem Contract No. 68-01-6762
 Instrument Identifier OWA 815 Calibration Date 01/09/84
 Standard File: NS840203C15 Date 02/03/84 Time 05:37
 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	0.900	-20.620		
BENZO (A) ANTHRACENE	1.420	1.283	-9.983		
CHRYSENE	1.199	1.348	11.700		
3,3'-DICHLOROBENZIDINE	0.016	0.036	76.920		
BIS (2-ETHYLHEXYL) PHTHALATE	1.493	1.319	-12.370		
DI-N-OCTYL PHTHALATE	2.582	2.246	-13.910		
3,4-BENZOFLUORANTHENE	1.114	1.481	28.280		
BENZO (K) FLUORANTHENE	0.973	1.481	41.200		
BENZO (A) PYRENE	0.998	1.110	10.620		
INDENO (1,2,3-CD) PYRENE	0.371	0.244	-80.240		
DIBENZO (A,H) ANTHRACENE	0.705	0.404	-54.280		
BENZO (GHI) PERYLENE	0.681	0.309	-96.130		
ANILINE	1.196	0.623	-62.710		
BENZOIDIC ACID	0.200	0.130	-42.420		
BENZYL ALCOHOL	0.350	0.398	-32.060		
4-CHLOROANILINE	0.160	0.233	49.860		
DIBENZOFURAN	1.657	1.618	-2.380		
2-METHYLNAPHTHALENE	0.347	0.337	9.310		
N-CRESOL	0.804	0.635	-20.420		
CRESOL	0.881	0.754	-15.530		
2-NITROANILINE	0.041	0.029	-34.280		
3-NITROANILINE	0.429	0.412	-4.040		
4-NITROANILINE	0.070	0.039	-56.080		
2,4,5-TRICHLOROPHENOL	0.130	0.187	21.950		

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 c)

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

003281

31 025601

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Instrument No. _____ Contractor CompuChem Contract No. 68-01-6762
 Instrument Identifier DNA 015 Calibration Date 01/09/84
 Standard File H0840203015 Date 02/03/84 Time 16:50
 Maximum ID for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ID	CCC	SPCC
N-NITROSOBIPHENYLAMINE	0.734	0.418	-54.860		
BIS (2-CHLOROETHYL) ETHER	1.215	1.030	-15.710		
2-CHLOROPHENOL	0.831	0.702	-16.820		
PHENOL	1.324	0.830	-44.950		
1,3-DICHLOROBENZENE	0.872	0.851	-2.430		
1,4-DICHLOROBENZENE	0.947	0.947	0.000		
1,2-DICHLOROBENZENE	0.840	0.824	-1.920		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.276	-18.420		
HEXACHLOROETHANE	0.401	0.400	1.730		
N-NITROSOBIPHENYLAMINE	0.168	0.150	-11.320		
NITROBENZENE	0.463	0.341	-24.790		
ISOPHORONE	0.954	0.812	-16.000		
2-NITROPHENOL	0.183	0.194	5.830		
2,4-DINITROPHENOL	0.351	0.309	-12.720		
BIS (2-CHLOROETHOXY) METHANE	0.407	0.456	-28.410		
2,4-DICHLOROPHENOL	0.258	0.273	4.370		
1,2,4-TRICHLOROBENZENE	0.247	0.331	21.400		
NAPHTHALENE	1.189	1.132	-4.910		
HEXACHLOROBTADIENE	0.144	0.179	20.300		
MILONG-N-CRESOL	0.452	0.400	-12.200		
HEXACHLOROCYCLOPENTADIENE	0.092	0.066	-30.000		
2,4,6-TRICHLOROPHENOL	0.540	0.173	-102.090		
2-CHLORONAPHTHALENE	1.124	1.176	4.340		
ACENAPHTHYLENE	1.015	1.219	18.260		
DIMETHYL PHTHALATE	1.334	1.339	0.370		
2,4-DINITROTOLUENE	0.428	0.277	-42.830		
ACENAPHTHENE	1.172	1.131	-3.560		
2,4-DINITROPHENOL	0.042	0.062	38.440		
2,4-DINITROTOLUENE	0.409	0.401	-1.970		
4-NITROPHENOL	0.153	0.089	-54.090		
FLUORENE	1.283	1.272	-0.860		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.493	9.740		
DIETHYL PHTHALATE	1.704	1.591	-6.850		
4,6-DINITRO-N-CRESOL	0.080	0.134	51.830		
N-NITROBIPHENYLAMINE	0.391	0.392	0.230		
1,2-DIPHENYLHYDRAZINE	2.411	1.903	-31.240		
4-BROMOPHENYL PHENYL ETHER	0.170	0.104	3.310		
HEXACHLOROCYCLOHEXENE	0.190	0.219	10.070		
PENTACHLOROPHENOL	0.090	0.096	4.630		
PHENANTHRENE	1.014	1.100	8.130		
ANTHRACENE	0.947	1.009	13.940		
DI-N-BUTYL PHTHALATE	1.499	1.702	0.170		
FLUORANTHENE	1.030	1.173	10.300		
PYRENE	1.049	1.392	-14.930		
BENZIDINE	0.000	0.003	200.000		

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 C)

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

31

007982

025602

Calibration Check Report - Semivolatile HRL Compounds

Page 2

Instrument No. _____
 Instrument Identifier OWA 015
 Standard File H0840203B15
 Maximum Δ for CCC is 20.00

Contractor CompuChem
 Minimum RF for SPCC is 0.050

Contract No. 108-01-6762
 Calibration Date 01/09/84
 Date 02/03/84 Time 16:50

Compound	Avg RF	RF	Δ	CCC	SPCC
BUTYL BENZYL PHTHALATE	1.107	0.953	-14.740		
BENZO (A) ANTHRACENE	1.420	1.170	-18.620		
CHRYSENE	1.199	1.409	16.100		
3,3'-DICHLOROBENZIDINE	0.016	0.056	111.110		
BIS (2-ETHYLHEXYL) PHTHALATE	1.493	1.313	-12.670		
DI-N-OCTYL PHTHALATE	2.502	2.270	-12.510		
3,4-BENZOFLUORANTHENE	1.114	0.969	-13.920		
BENZO (K) FLUORANTHENE	0.973	1.063	8.630		
BENZO (A) PYRENE	0.990	1.071	7.030		
INDENO (1,2,3-CD) PYRENE	0.571	0.397	-31.950		
DIBENZO (A,H) ANTHRACENE	0.703	0.341	-49.590		
BENZO (GHI) PERYLENE	0.001	0.307	-77.910		
ANILINE	1.196	0.476	-60.120		
BENZOIC ACID	0.200	0.206	2.950		
BENZYL ALCOHOL	0.550	0.300	-36.410		
4-CHLORANILINE	0.140	0.162	14.560		
DIBENZOFURAN	1.657	1.662	0.300		
2-METHYLNAPHTHALENE	0.307	0.333	13.930		
"PREGOL	0.004	0.643	-22.250		
"REGOL	0.001	0.609	-24.450		
2-NITROANILINE	0.041	0.029	-34.200		
3-NITROANILINE	0.429	0.300	-10.030		
4-NITROANILINE	0.070	0.021	-107.690		
2,4,5-TRICHLOROPHENOL	0.150	0.100	10.100		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

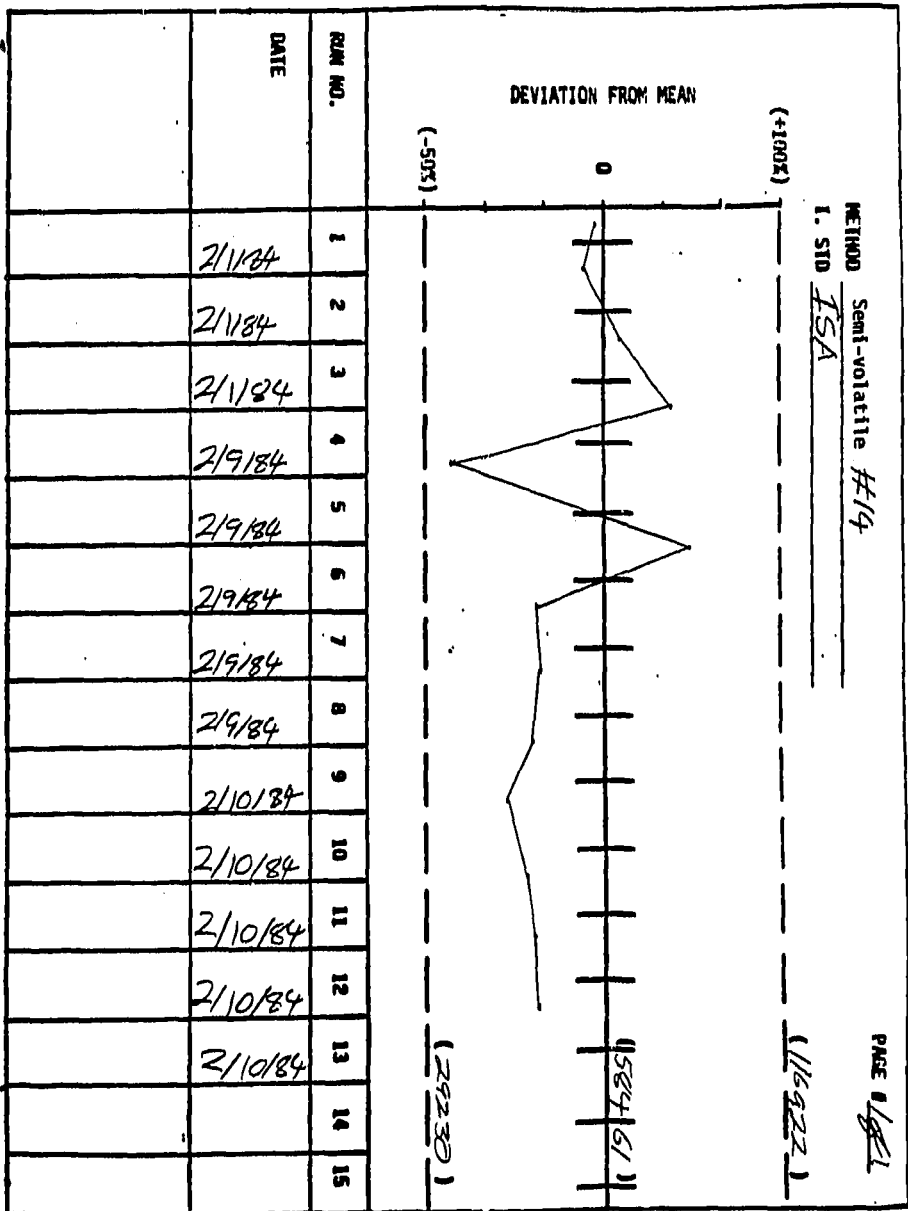
 Δ - Percent Difference

CCC - Calibration Check Compounds (those compounds flagged with an 0)

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

31

025603



003295

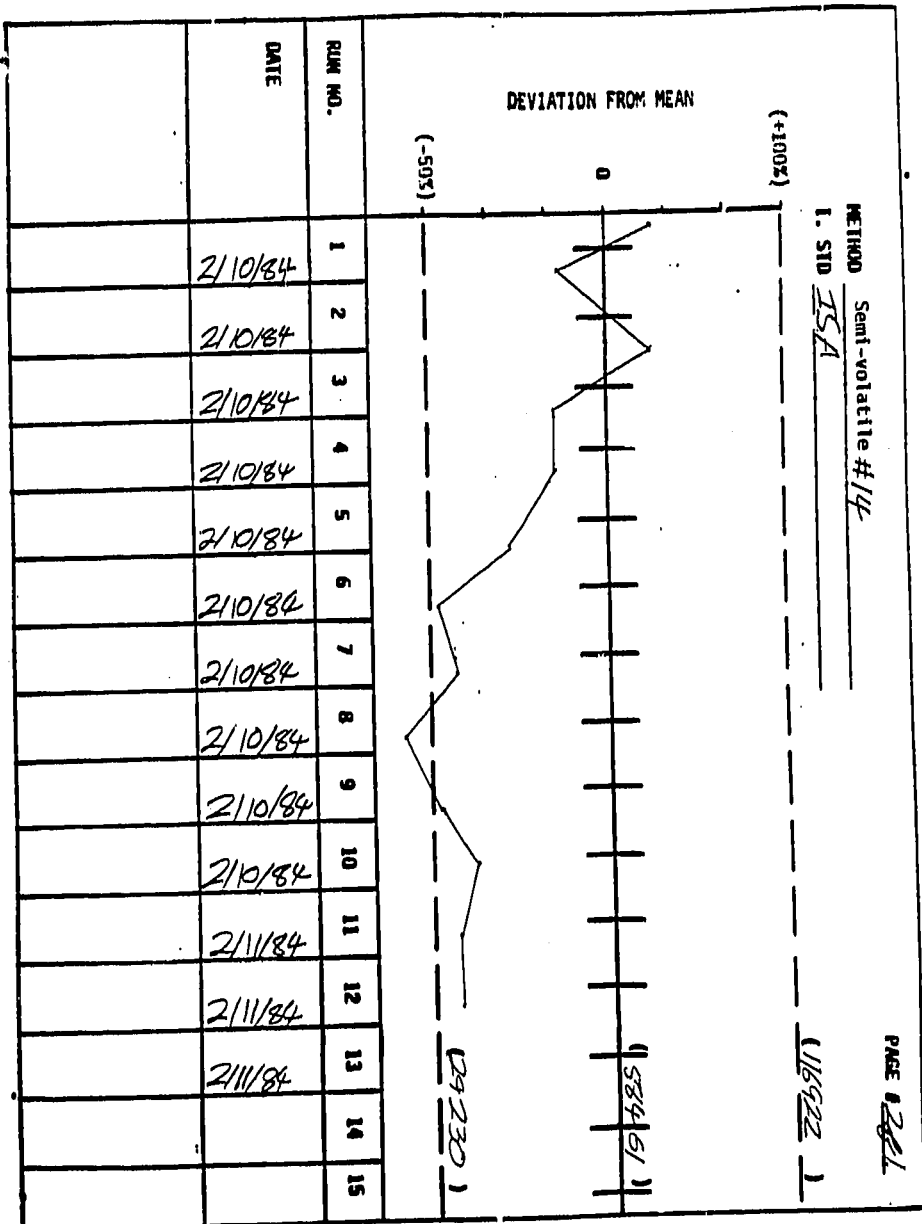
31

025605

METHOD Semi-volatile #14
I. STD ISA

PAGE 281

116922



003200

31

025603

PAGE 8 381

METHOD Semi-volatile #14

I. STD ISA 116922

DEVIATION FROM MEAN

(+100%)

0

(-50%)

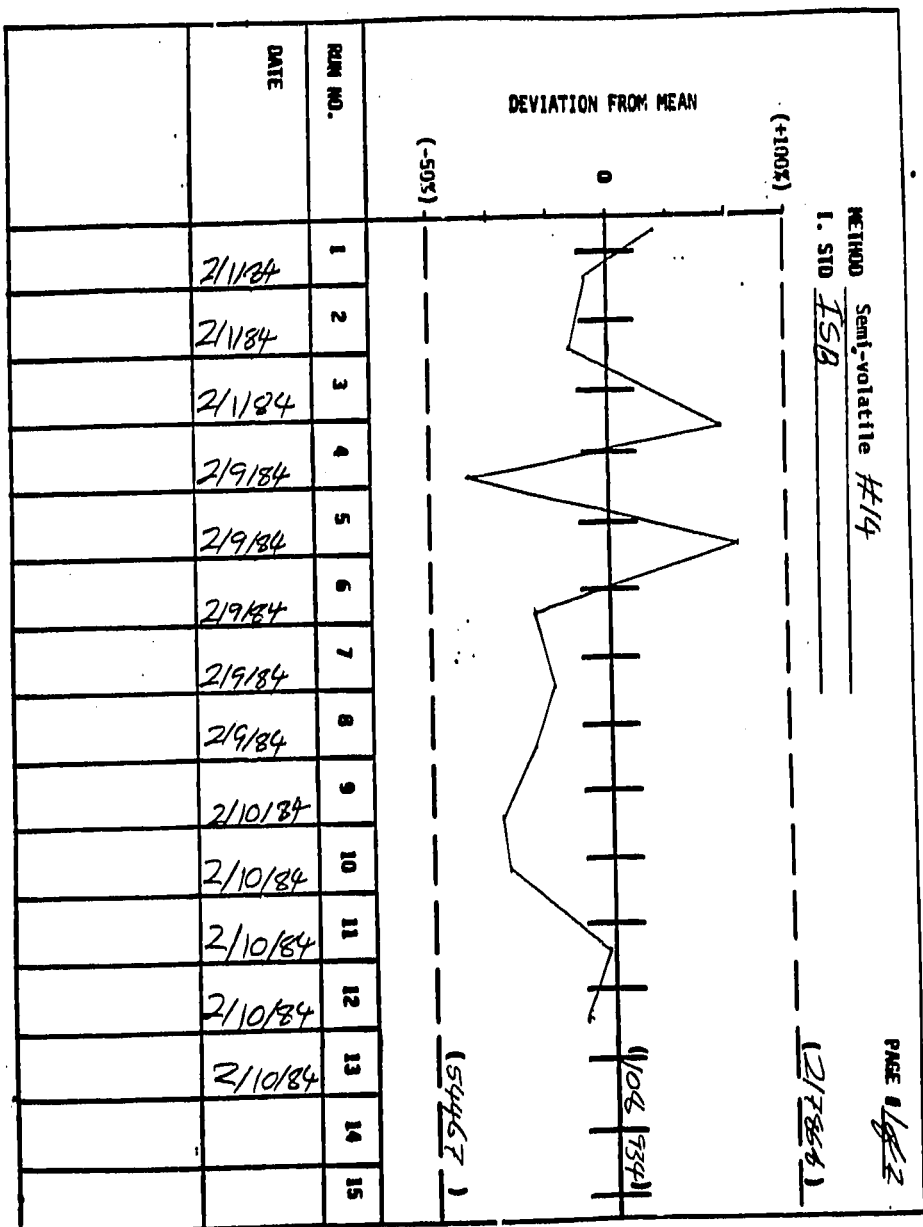
(29230)

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

003287

31

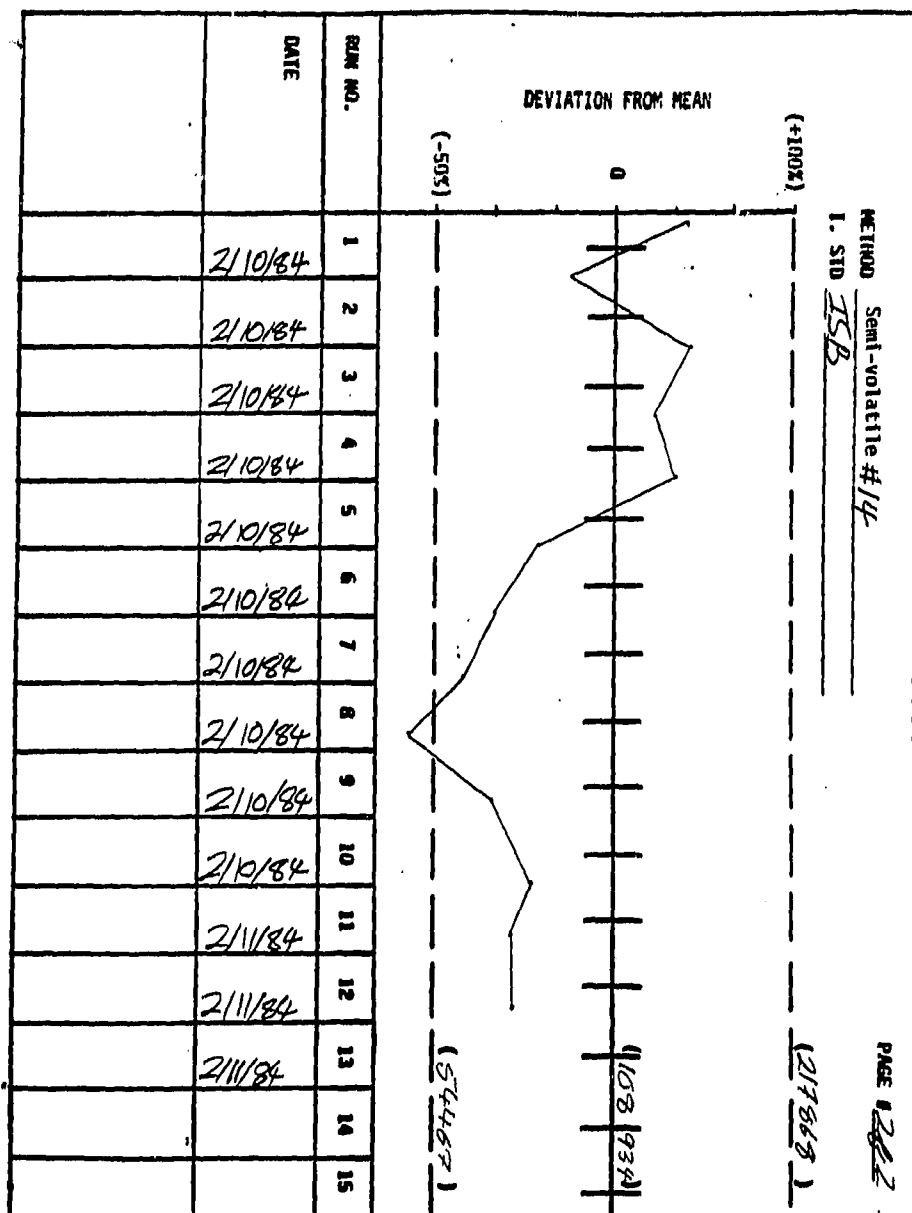
025607



003203

31

025603



003269

025603

PAGE 13/2

METHOD Semi-volatile #14

I. STD ISB (217868)

DEVIATION FROM MEAN

(+100%)

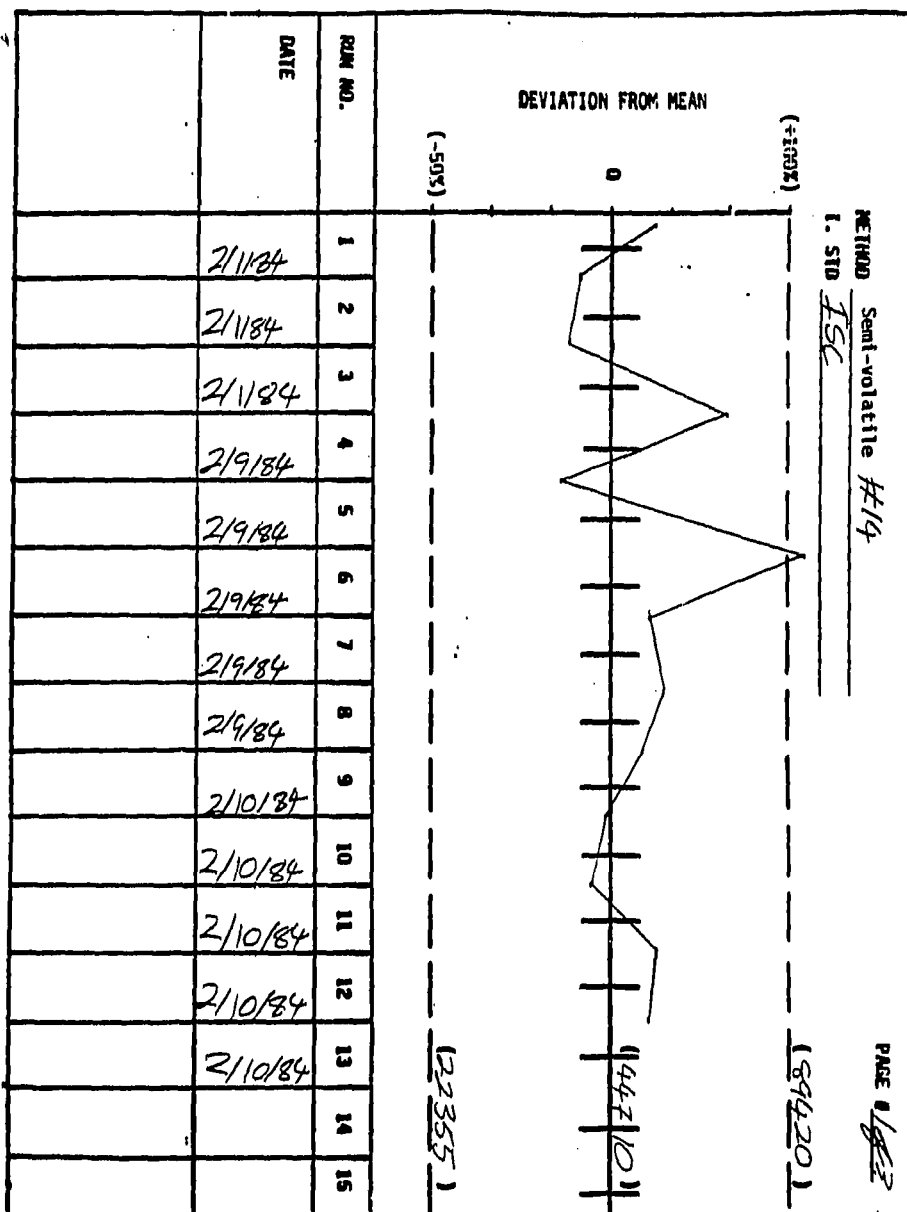
0

(-50%)

(544.57)

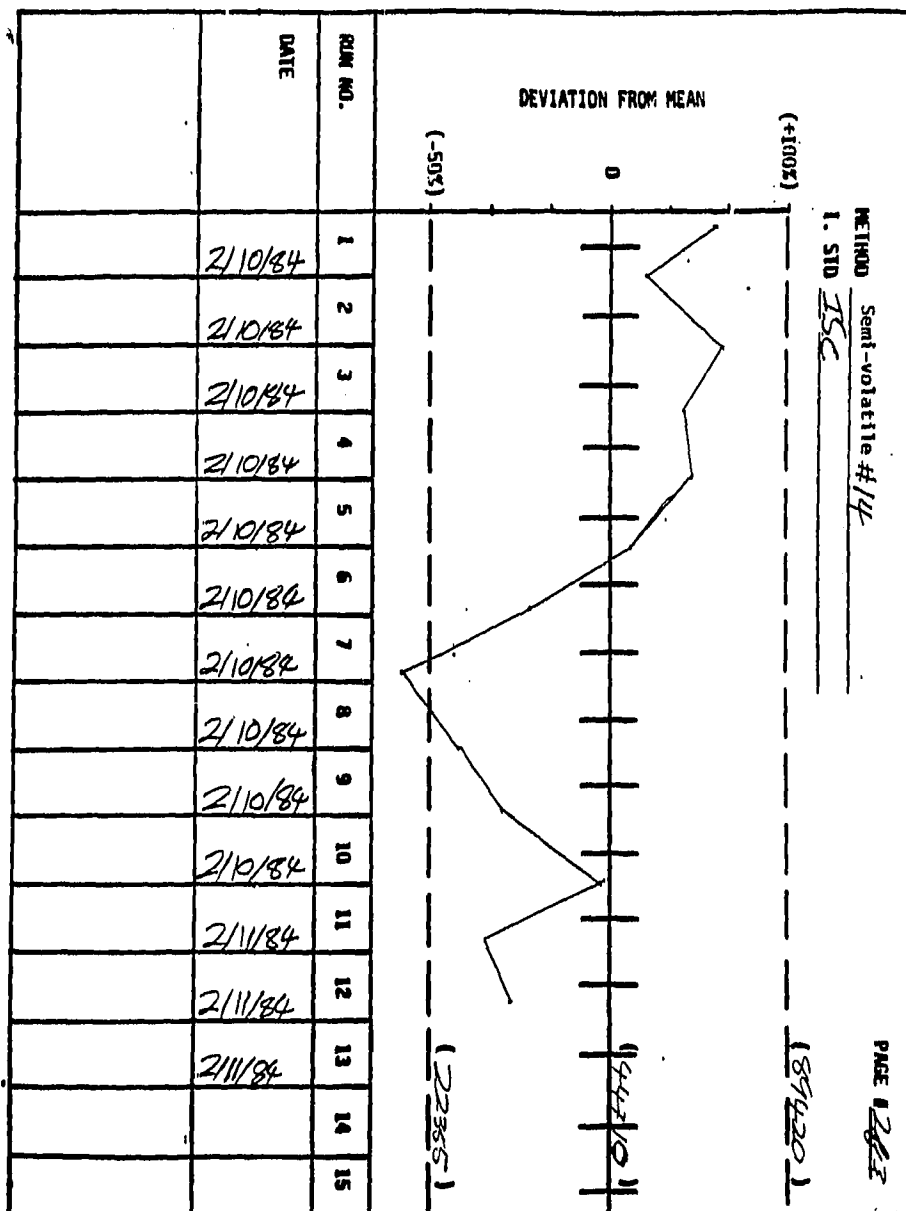
RUN NO.	DATE
1	2/11/84
2	2/11/84
3	2/11/84
4	2/11/84
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

003300
025610



007301

025611



003302
025612

PAGE 8 343

METHOD Semi-volatile #14

I. STD ISC

(87420)

DEVIATION FROM MEAN

0

(+100%)

(-50%)

(44210)

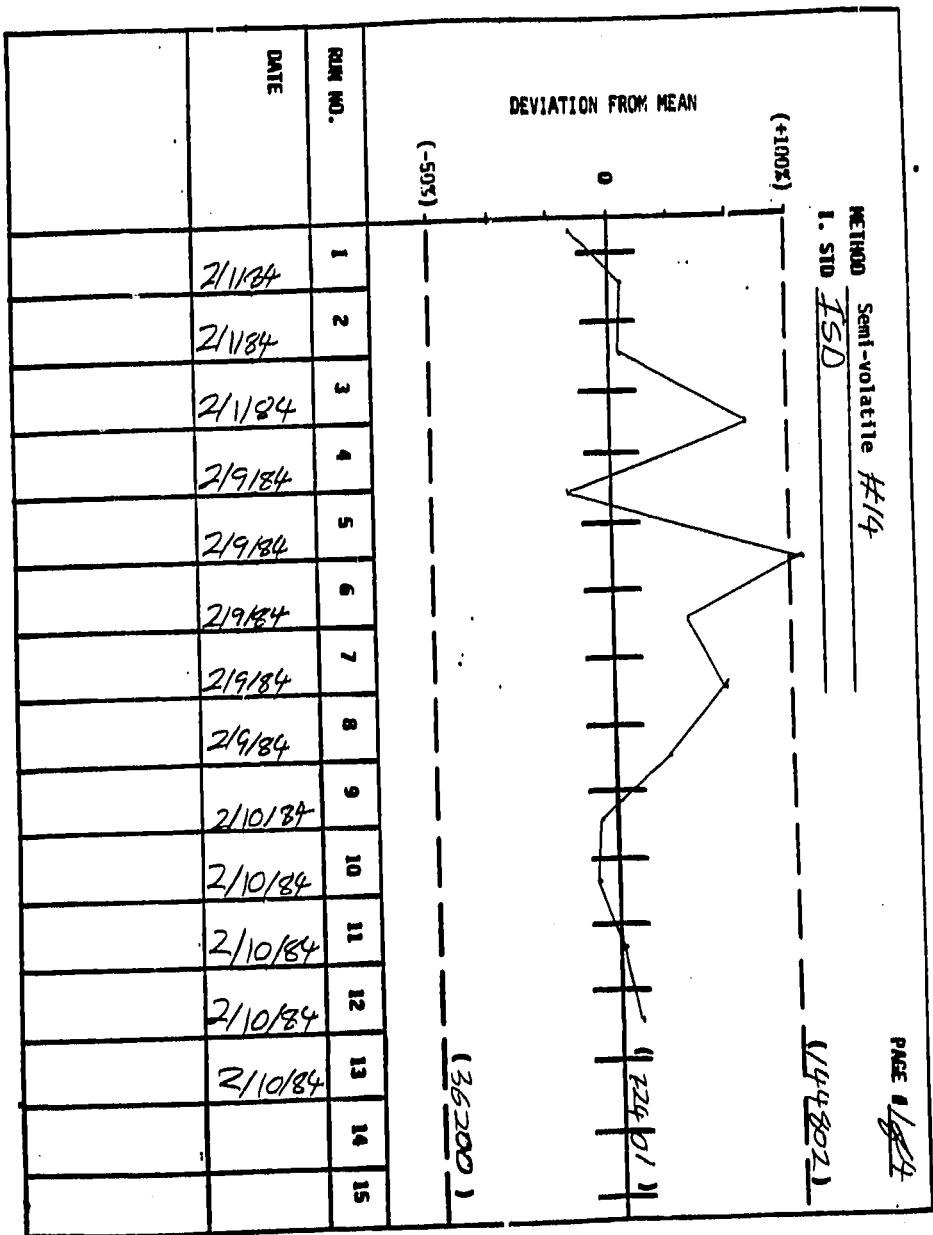
(22365)

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

003303

31

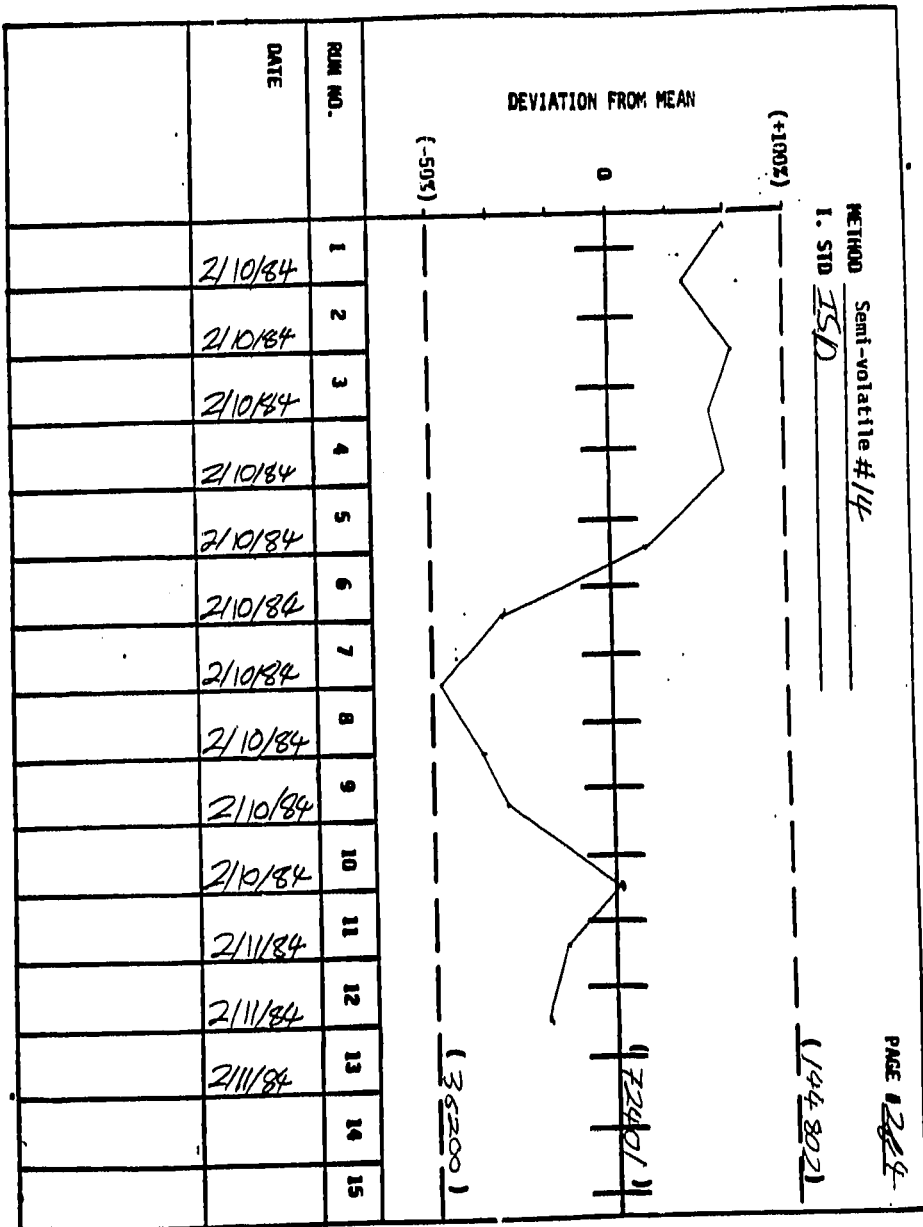
025613



003804

31

025614



007305

PAGE # 344

METHOD Semi-volatile #14

I. STD ISO (144822)

DEVIATION FROM MEAN

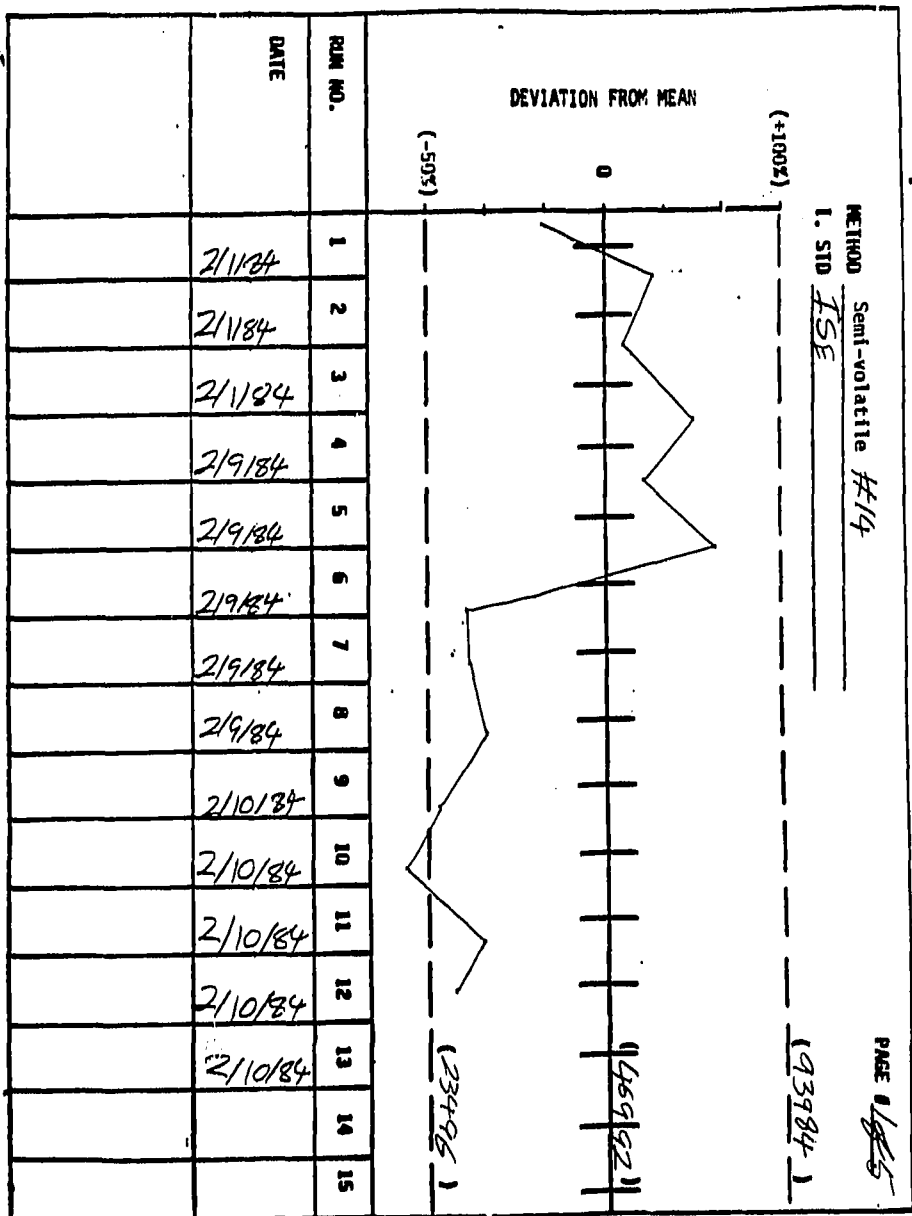
(+100%)

0

(-50%)

(36200)

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



003307

31

025617

METHOD Semi-volatile #14
I. STD ISE

PAGE 1245

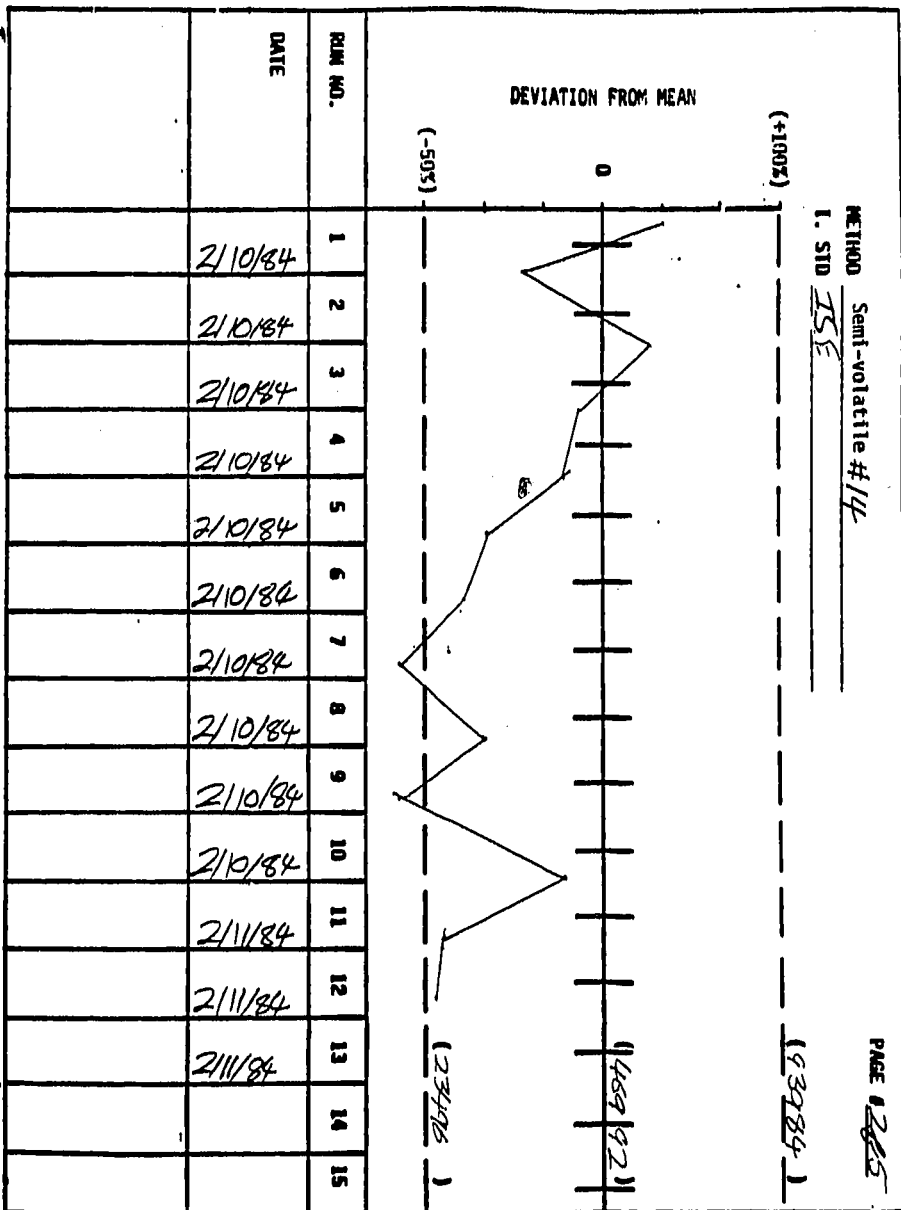
(+100%)

(93984)

DEVIATION FROM MEAN

(-50%)

(23406)



003308

025618

METHOD Semi-volatile #14
I. STD TS

(93784)

(+100%)

0

DEVIATION FROM MEAN

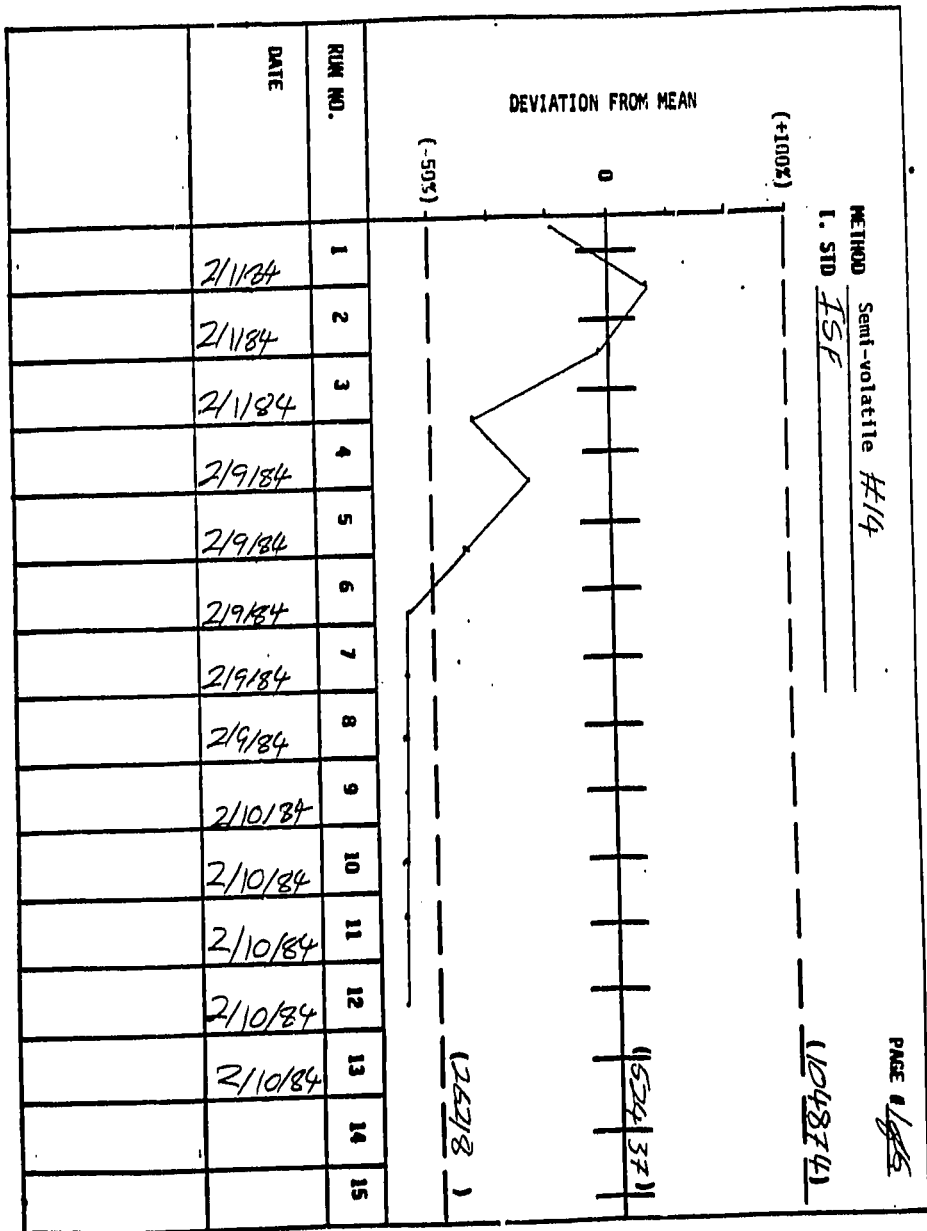
(-50%)

(23496)

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

003300

31 025613



003210

31 025620

METHOD		PAGE # 245	
Semi-volatile #14			
I. STD			
		(+100%)	(104.874)
		0	(524.37)
		(-50%)	(262.18)
DATE	RUN NO.	DEVIATION FROM MEAN	
2/10/84	1		
2/10/84	2		
2/10/84	3		
2/10/84	4		
2/10/84	5		
2/10/84	6		
2/10/84	7		
2/10/84	8		
2/10/84	9		
2/10/84	10		
2/11/84	11		
2/11/84	12		
2/11/84	13		
	14		
	15		

PAGE # 346

METHOD Semi-volatile #14

1. STD ISE

DEVIATION FROM MEAN

(+100%) 0 (-50%)

(104879.1)

(524.87)

(26214.1)

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

003312

025622

F 31

Internal Standard Response Verification Data Sheet

PAGE 1

Case No. 2333 Contractor CompuChem Contract No. 68-01-6762Instrument 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					
H1B40201B14	0201B4	58340	.305	114656	.403	46924	.549	69985	.403	40835	.894	47416	1.000	.509	2.443	.670	1.714	.861
H8B40201B14	0201B4	57311	.305	106209	.404	43964	.549	73481	.404	52036	.894	58385	1.000	.540	2.416	.598	1.412	.891
HMB40201B14	0201B4	59734	.305	105937	.404	43244	.549	73737	.404	48106	.894	51512	1.000	.564	2.450	.565	1.533	.934
HGB40208C14	0209B4	75989	.297	151310	.396	78876	.543	114516	.396	67453	.893	36434	1.000	.502	1.918	.689	1.896	1.851
GH19738C14	0209B4	32087	.337	69865	.426	42820	.555	68454	.426	50898	.862	42986	1.000	.459	1.632	.626	1.345	1.184
GH020112R14	0209B4	84077	.297	181884	.397	100469	.543	165200	.397	74281	.893	34335	1.000	.462	1.810	.608	2.224	2.163
GH020408B14	0209B4	43129	.297	95878	.396	50969	.543	84393	.396	32400	.893	13156	1.000	.450	1.881	.604	2.605	2.463
GH020039B14	0209B4	46331	.294	102278	.394	53989	.541	93226	.394	33445	.892	13227	1.000	.453	1.894	.579	2.787	2.529
HBB40210C14	0210B4	45200	.297	96891	.397	49583	.544	81824	.397	35604	.893	14659	1.000	.467	1.954	.606	2.298	2.428
G3019785C14	0210B4	40270	.257	88382	.397	44139	.543	71190	.397	24496	.892	8338	1.000	.456	2.002	.620	2.906	2.938
GH019529C14	0210B4	44514	.297	89057	.396	42482	.543	71029	.396	21736	.892	5820	1.000	.500	2.096	.598	3.249	2.729
GH19651C14	0210B4	47047	.296	108049	.395	51018	.542	73666	.395	34640	.893	19726	1.000	.435	2.118	.692	2.127	1.753
GH01945C14	0210B4	47296	.296	105932	.396	50995	.543	75367	.396	28938	.892	11808	1.000	.446	2.081	.675	2.634	2.451
GH01943A14	0210B4	60599	.297	133584	.396	70662	.543	115040	.396	55644	.893	34745	1.000	.454	1.890	.614	2.667	1.601
HBB40216A14	0210B4	52845	.296	102069	.396	52610	.543	85337	.396	36532	.893	17251	1.000	.518	1.940	.616	2.337	2.117
GH019531A14	0210B4	60760	.297	134843	.396	71031	.543	116852	.396	53864	.893	29680	1.000	.451	1.898	.608	2.169	1.815
GH019535A14	0210B4	51815	.296	113530	.396	60153	.543	98707	.396	44436	.893	25781	1.000	.456	1.887	.608	2.221	1.724
G3019531A14	0210B4	53722	.297	118751	.396	62362	.543	103627	.396	41707	.893	17611	1.000	.452	1.904	.602	2.485	2.368
G3019790A14	0210B4	43309	.297	94153	.396	47495	.543	79460	.396	31596	.893	15192	1.000	.460	1.982	.598	2.515	2.080
GR019648B14	0210B4	30894	.295	69000	.394	36403	.541	56196	.394	29286	.892	22493	1.000	.448	1.895	.648	1.919	1.302
IS58B14	0210B4	35391	.296	56779	.395	22000	.542	37981	.395	21362	.892	15133	1.000	.623	2.581	.579	1.778	1.412
GH19432B14	0210B4	22296	.333	52453	.424	27909	.556	48222	.424	35573	.872	28182	1.000	.425	1.879	.579	1.356	1.262
GH020151B14	0210B4	30768	.296	64453	.396	33561	.543	55418	.396	22587	.893	11898	1.000	.477	1.920	.606	2.454	1.898
HBB40211A14	0211B4	42388	.297	82228	.396	43276	.543	73964	.396	42487	.893	28887	1.000	.515	1.900	.585	1.741	1.471
GH19658C14	0211B4	34701	.296	76579	.395	31647	.542	67668	.395	26586	.892	19754	1.000	.453	2.420	.468	2.545	1.346
GH19264C14	0211B4	36046	.297	77504	.397	38367	.543	62723	.397	24705	.893	14606	1.000	.465	2.020	.612	2.539	1.691
GH019713A14	0211B4	40344	.297	82199	.396	42559	.543	68592	.396	20645	.893	9207	1.000	.491	1.931	.620	3.322	2.243
GH019714C14	0211B4	36814	.297	72916	.397	38483	.543	63788	.397	23241	.892	11029	1.000	.505	1.895	.603	2.745	2.107
GH019580B14	0211B4	30544	.298	65271	.357	34005	.543	59220	.397	25469	.892	13785	1.000	.468	1.919	.574	2.325	1.848
GH019575B14	0211B4	28460	.257	65121	.397	34754	.542	59756	.397	23441	.893	12945	1.000	.437	1.874	.582	2.549	1.811

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)

31

025623

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. 2333
 Instrument Identifier OMA #14
 Standard File HGB40211A14
 Maximum ZD for CCC is 20.00

Contractor CompuChem
 Minimum RF for SPCC is 0.050

Contract No. 68-01-5762
 Calibration Date 02/01/84
 Date 02/11/84 Time 10:26

Compound	Avg RF	RF	ZD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.630	0.362	-54.030		
BIS (2-CHLOROETHYL) ETHER	0.989	0.831	-17.360		
2-CHLOROPHENOL	0.798	0.742	-7.270		
PHENOL	1.075	0.975	-9.750	*	
1,3-DICHLOROBENZENE	0.840	0.857	2.000		
1,4-DICHLOROBENZENE	0.907	0.911	0.440	*	
1,2-DICHLOROBENZENE	0.791	0.826	4.320		
BIS (2-CHLOROISOPROPYL) ETHER	0.212	0.211	-0.470		
HEXACHLORETHANE	0.337	0.311	-8.020		
N-NITROSODI-N-PROPYLAMINE	0.114	0.124	8.400		**
NITROBENZENE	0.365	0.390	6.620		
ISOPHORONE	0.703	0.626	-11.580		
2-NITROPHENOL	0.164	0.169	3.000	*	
2,4-DIMETHYLPHENOL	0.299	0.324	8.020		
BIS (2-CHLOROETHOXY) METHANE	0.481	0.455	-5.550		
2,4-DICHLOROPHENOL	0.246	0.276	10.680	*	
1,2,4-TRICHLOROBENZENE	0.313	0.360	13.960		
NAPHTHALENE	1.135	1.157	1.910		
HEXACHLOROBUTADIENE	0.148	0.170	13.830	*	
P-CHLORO-M-CRESOL	0.337	0.368	8.790	*	
HEXACHLOROXYCLOPENTADIENE	0.075	0.092	20.350		**
2,4,6-TRICHLOROPHENOL	0.184	0.210	13.190	*	
2-CHLORONAPHTHALENE	1.281	1.226	-4.380		
NAPHTHYLENE	1.262	1.497	17.030		
DIMETHYL PHTHALATE	1.429	1.486	3.910		
2,6-DINITROTOLUENE	0.258	0.293	12.700		
ACENAPHTHENE	1.072	1.155	7.450	*	
2,4-DINITROPHENOL	0.054	0.081	40.000		**
2,4-DINITROTOLUENE	0.365	0.407	10.880		
4-NITROPHENOL	0.130	0.044	-98.850		**
FLUORENE	1.282	1.296	1.080		
4-CHLOROPHENYL PHENYL ETHER	0.499	0.521	4.310		
DIETHYL PHTHALATE	1.635	1.548	-5.460		
4,6-DINITRO-O-CRESOL	0.093	0.149	46.280		
N-NITROSODIPHENYLAMINE	0.408	0.634	43.370	*	
1,2-DIPHENYLHYDRAZINE	1.789	1.465	-19.910		
4-BROMOPHENYL PHENYL ETHER	0.173	0.176	1.710		
HEXACHLOROBENZENE	0.233	0.227	-2.600		
PENTACHLOROPHENOL	0.113	0.087	-26.000	*	
PHENANTHRENE	1.196	1.176	-1.680		
ANTHRACENE	0.947	0.945	-0.210		
DI-N-BUTYL PHTHALATE	1.629	1.484	-9.310		
FLUORANTHENE	1.108	1.105	-0.270	*	
PYRENE	1.689	1.954	14.540		
BENZIDINE	0.000	0.000	0.000		**

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

ZD - Percent Difference

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

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

007214

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Case No. 2333 Contractor CompuChem Contract No. 64-01-6762
 Instrument Identifier DNA 814 Calibration Date 02/01/84
 Standard File H8840211A14 Date 02/11/84 Time 10:26
 Minimum 2D for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	2D	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.976	1.044	6.730		
BENZO (A) ANTHRACENE	1.434	1.390	-3.110		
CHRYSENE	1.111	1.136	2.220		
3,3'-DICHLOROBENZIDINE	0.054	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.330	1.433	7.450		
D1-N-OCTYL PHTHALATE	2.145	2.361	9.580	*	
3,4-BENZOFLUORANTHENE	1.274	1.401	9.490		
BENZO (K) FLUORANTHENE	0.886	1.152	26.100		
BENZO (A) PYRENE	1.017	1.128	10.340	*	
INDENO (1,2,3-CD) PYRENE	0.928	0.527	-56.120		
DIBENZO (A,H) ANTHRACENE	0.842	0.473	-56.120		
BENZO (BHI) PERYLENE	0.911	0.510	-56.430		
ANILINE	1.007	0.999	-0.790		
BENZIDIC ACID	0.137	0.084	-47.960		
BENZYL ALCOHOL	0.466	0.433	-7.340		
4-CHLORDANILINE	0.128	0.269	71.030		
DIBENZOFURAN	1.707	1.707	0.000		
2-METHYLNAPHTHALENE	0.234	0.263	11.670		
O-CRESOL	0.619	0.588	-5.130		
P-CRESOL	0.700	0.716	2.250		
2-NITROANILINE	0.035	0.061	54.160		
3-NITROANILINE	0.467	0.449	-3.930		
TRIOANILINE	0.019	0.031	48.000		
2,4,5-TRICHLOROPHENOL	0.150	0.200	28.570		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

P - Percent Difference

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

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

803315

31

025625

Calibration Check Report - Semivolatile HSL Compounds

Page 1

Case No. 2333 Contractor CompuChem Contract No. 68-01-0752
 Instrument Identifier DWA #14 Calibration Date 02/01/84
 Standard File H6040210A14 Date 02/10/84 Time 11:46
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.630	0.391	-49.250		
BIS (2-CHLOROETHYL) ETHER	0.989	0.795	-21.740		
2-CHLOROPHENOL	0.798	0.727	-9.310		
PHENOL	1.075	0.961	-11.190	*	
1,3-DICHLOROBENZENE	0.840	0.842	0.230		
1,4-DICHLOROBENZENE	0.907	0.926	2.070	*	
1,2-DICHLOROBENZENE	0.791	0.827	4.440		
BIS (2-CHLOROISOPROPYL) ETHER	0.212	0.208	-1.900		
HEXACHLOROETHANE	0.337	0.290	-14.990		
N-NITROSODI-N-PROPYLAMINE	0.114	0.124	8.400		**
NITROBENZENE	0.365	0.386	5.590		
ISOPHORONE	0.703	0.624	-11.900		
2-NITROPHENOL	0.164	0.173	5.340	*	
2,4-DIMETHYLPHENOL	0.299	0.322	7.400		
BIS (2-CHLOROETHOXY) METHANE	0.481	0.438	-9.350		
2,4-DICHLOROPHENOL	0.248	0.285	13.880	*	
1,2,4-TRICHLOROBENZENE	0.313	0.368	16.150		
NAPHTHALENE	1.135	1.128	-0.610		
HEXACHLOROBUTADIENE	0.148	0.170	13.830	*	
P-CHLORO-N-CRESOL	0.337	0.352	4.350	*	
HEXACHLOROCYCLOPENTADIENE	0.075	0.081	7.690		**
2,4,6-TRICHLOROPHENOL	0.184	0.218	16.910	*	
2-CHLORONAPHTHALENE	1.281	1.248	-2.600		
1-NAPHTHYLENE	1.262	0.897	-33.810		
DIMETHYL PHTHALATE	1.429	1.384	-3.190		
2,6-DINITROTOLUENE	0.258	0.224	-14.100		
ACENAPHTHENE	1.072	1.153	7.280	*	
2,4-DINITROPHENOL	0.054	0.075	32.550		**
2,4-DINITROTOLUENE	0.365	0.354	-3.050		
4-NITROPHENOL	0.130	0.120	-8.000		**
FLUORENE	1.282	1.273	-0.700		
4-CHLOROPHENYL PHENYL ETHER	0.499	0.506	1.390		
DIETHYL PHTHALATE	1.635	1.407	-14.990		
4,6-DINITRO-D-CRESOL	0.093	0.124	28.570		
N-NITROSODIPHENYLAMINE	0.408	0.294	-32.470	*	
1,2-DIPHENYLHYDRAZINE	1.789	1.370	-26.520		
4-BROMOPHENYL PHENYL ETHER	0.173	0.177	2.280		
HEXACHLOROBENZENE	0.233	0.234	0.420		
PENTACHLOROPHENOL	0.113	0.098	-14.210	*	
PHENANTHRENE	1.196	1.180	-1.340		
ANTHRACENE	0.947	0.928	-2.020		
DI-N-BUTYL PHTHALATE	1.629	1.419	-13.770		
FLUORANTHENE	1.108	0.986	-11.650	*	
PYRENE	1.689	2.314	31.220		
BENZIDINE	0.000	0.000	0.000		**

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

ZD - Percent Difference

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

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

003316

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Case No. 2333 Contractor CompuChem Contract No. 68-01-6762
 Instrument Identifier DNA 814 Calibration Date 02/01/84
 Standard File H6840219A14 Date 02/10/84 Time 11:46
 Minimum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.976	1.168	17.910		
BENZO (A) ANTHRACENE	1.434	1.507	4.960		
CHRYSENE	1.111	1.223	9.590		
3,3'-DICHLOROBENZIDINE	0.054	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.330	1.801	30.080		
DI-N-OCTYL PHTHALATE	2.145	2.822	27.250	*	
3,4-BENZOFLODRANTHENE	1.274	1.625	24.210		
BENZO (K) FLUORANTHENE	0.886	1.326	39.780		
BENZO (A) PYRENE	1.017	1.112	8.920	*	
INDENO (1,2,3-CD) PYRENE	0.928	0.501	-59.760		
DIBENZO (A,H) ANTHRACENE	0.842	0.353	-81.840		
BENZO (GH) PERYLENE	0.911	0.371	-84.240		
ANILINE	1.007	0.785	-24.770		
BENZOIC ACID	0.137	0.108	-23.670		
BENZYL ALCOHOL	0.466	0.425	-9.200		
4-CHLOROANILINE	0.128	0.166	25.850		
DIBENZOFURAN	1.707	1.710	0.170		
2-METHYLNAPHTHALENE	0.234	0.257	9.360		
O-CRESOL	0.619	0.590	-4.790		
P-CRESOL	0.700	0.695	-0.710		
2-NITROANILINE	0.035	0.037	5.550		
3-NITROANILINE	0.467	0.403	-14.710		
4-NITROANILINE	0.019	0.008	-81.480		
2,4,6-TRICHLOROPHENOL	0.150	0.187	21.950		

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 **)

003317

31

025627

Calibration Check Report - Semivolatile HSL Compounds

Case No. 2333 Contractor CompuChem Contract No. 68-01-6762
 Instrument Identifier DNA #14 Calibration Date 02/01/84
 Standard File HGB40210C14 Date 02/10/84 Time 02:19
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
M-NITROSODIMETHYLAMINE	0.630	0.480	-27.020		
BIS (2-CHLOROETHYL) ETHER	0.989	0.880	-11.660		
2-CHLOROPHENOL	0.798	0.744	-7.000		
PHENOL	1.075	1.017	-5.540	*	
1,3-DICHLOROBENZENE	0.840	0.898	6.670		
1,4-DICHLOROBENZENE	0.907	1.031	12.790	*	
1,2-DICHLOROBENZENE	0.791	0.929	16.040		
BIS (2-CHLOROISOPROPYL) ETHER	0.212	0.220	3.700		
HEXACHLOROETHANE	0.337	0.318	-5.800		
M-NITROSODI-M-PROPYLAMINE	0.114	0.107	-6.330		**
NITROBENZENE	0.365	0.430	16.350		
ISOPHORONE	0.703	0.578	-19.510		
2-NITROPHENOL	0.164	0.155	-5.640	*	
2,4-DIMETHYLPHENOL	0.299	0.267	-11.300		
BIS (2-CHLOROETHOXY) METHANE	0.481	0.391	-20.640		
2,4-DICHLOROPHENOL	0.248	0.283	13.180	*	
1,2,4-TRICHLOROBENZENE	0.313	0.361	14.240		
NAPHTHALENE	1.135	1.106	-2.580		
HEXACHLOROBUTADIENE	0.148	0.175	16.710	*	
P-CHLORO-M-CRESOL	0.337	0.308	-8.990	*	
HEXACHLOROCYCLOPENTADIENE	0.075	0.099	27.580		**
2,4,6-TRICHLOROPHENOL	0.184	0.251	30.800	*	
2-CHLORONAPHTHALENE	1.281	1.235	-3.650		
2-NAPHTHYLENE	1.262	1.718	30.600		
DIMETHYL PHTHALATE	1.429	1.370	-4.210		
2,6-DINITROTOLUENE	0.258	0.288	10.980		
ACENAPHTHENE	1.072	1.148	6.840	*	
2,4-DINITROPHENOL	0.054	0.077	35.110		**
2,4-DINITROTOLUENE	0.365	0.359	-1.650		
4-NITROPHENOL	0.130	0.112	-14.870		**
FLUORENE	1.282	1.265	-1.330		
4-CHLOROPHENYL PHENYL ETHER	0.499	0.516	3.340		
DIETHYL PHTHALATE	1.635	1.413	-14.560		
4,6-DINITRO-O-CRESOL	0.093	0.133	35.390		
M-NITROSODIPHENYLAMINE	0.408	0.641	44.420	*	
1,2-DIPHENYLHYDRAZINE	1.789	1.391	-25.030		
4-BROMOPHENYL PHENYL ETHER	0.173	0.179	3.400		
HEXACHLOROBENZENE	0.233	0.235	0.850		
PENTACHLOROPHENOL	0.113	0.083	-30.610	*	
PHENANTHRENE	1.196	1.148	-4.090		
ANTHRACENE	0.947	0.970	2.390		
DI-M-BUTYL PHTHALATE	1.629	1.405	-14.760		
FLUORANTHENE	1.108	1.004	-9.840	*	
PYRENE	1.689	2.361	33.180		
BENZIDINE	0.000	0.000	0.000		**

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

ZD - Percent Difference

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

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

003318
025628

Calibration Check Report - Semivolatile HSL Compounds

Page 2

Case No. 2333 Contractor CompuChem Contract No. SB-01-6762
 Instrument Identifier DWA 814 Calibration Date 02/01/84
 Standard File HGB40210C14 Date 02/10/84 Time 02:19
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.030

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.976	1.103	12.210		
BENZO (A) ANTHRACENE	1.434	1.281	-11.270		
CHRYSENE	1.111	1.175	5.590		
3,3'-DICHLOROBENZIDINE	0.054	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.330	1.661	22.130		
DI-N-OCTYL PHTHALATE	2.145	2.268	5.570		
3,4-BENZOFLUORANTHENE	1.274	1.617	23.720		
BENZO (K) FLUORANTHENE	0.886	1.289	37.050		
BENZO (A) PYRENE	1.017	1.146	11.920		
INDENO (1,2,3-CD) PYRENE	0.928	0.437	-71.940		
DIBENZO (A,H) ANTHRACENE	0.842	0.375	-76.740		
BENZO (BHI) PERYLENE	0.911	0.407	-76.470		
ANILINE	1.067	0.936	-7.300		
BENZOIC ACID	0.137	0.044	-102.760		
BENZYL ALCOHOL	0.466	0.406	-13.760		
4-CHLOROANILINE	0.128	0.030	-124.050		
DIBENZOFURAN	1.707	1.711	0.230		
2-METHYLNAPHTHALENE	0.234	0.221	-5.710		
O-CRESOL	0.619	0.600	-3.110		
P-CRESOL	0.700	0.739	5.420		
2-NITROANILINE	0.035	0.028	-22.220		
3-NITROANILINE	0.467	0.395	-16.700		
4-NITROANILINE	0.019	0.008	-81.480		
1,5-TRICHLOROPHENOL	0.150	0.171	13.080		

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 **)

000000

31

025629

Calibration Check Report - Semi-volatile NPL Compounds

Page 1

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

Calibration Date 02/01/84

Standard File HBB40209C14

Date 02/09/84 Time 05:35

Maximum XD for CCC is 20.00

Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	XD	CCC	SPCC
N-NITROSODIMETHYLAMINE	0.630	0.408	-42.770		
BIS (2-CHLOROETHYL) ETHER	0.989	1.056	6.550		
2-CHLOROPHENOL	0.798	0.721	-10.130		
PHENOL	1.075	0.980	-9.240	*	
1,3-DICHLOROBENZENE	0.840	0.830	-1.190		
1,4-DICHLOROBENZENE	0.907	0.897	-1.100	*	
1,2-DICHLOROBENZENE	0.791	0.811	2.490		
BIS (2-CHLOROISOPROPYL) ETHER	0.212	0.204	-3.840		
HEXACHLOROETHANE	0.337	0.293	-13.960		
N-NITROSODI-N-PROPYLAMINE	0.114	0.122	6.770		**
NITROBENZENE	0.365	0.379	3.760		
ISOPHORONE	0.703	0.573	-20.370		
2-NITROPHENOL	0.164	0.165	0.600	*	
2,4-DIMETHYLPHENOL	0.299	0.308	2.960		
BIS (2-CHLOROETHOXY) METHANE	0.481	0.408	-16.420		
2,4-DICHLOROPHENOL	0.248	0.290	15.610	*	
1,2,4-TRICHLOROBENZENE	0.313	0.361	14.240		
NAPHTHALENE	1.135	1.114	-1.860		
HEXACHLOROBUTADIENE	0.148	0.173	15.570	*	
P-CHLORO-M-CRESOL	0.337	0.326	-3.310	*	
HEXACHLOROCYCLOPENTADIENE	0.075	0.081	7.690		**
2,4,6-TRICHLOROPHENOL	0.184	0.253	31.570	*	
1-CHLORONAPHTHALENE	1.281	1.138	-11.820		
NAPHTHYLENE	1.262	0.641	-65.260		
DIMETHYL PHTHALATE	1.429	1.217	-16.020		
2,6-DINITROTOLUENE	0.258	0.264	2.290		
ACENAPHTHENE	1.072	1.122	4.550	*	
2,4-DINITROPHENOL	0.054	0.064	16.940		**
2,4-DINITROTOLUENE	0.365	0.355	-2.770		
4-NITROPHENOL	0.130	0.130	0.000		**
FLUORENE	1.282	1.157	-10.250		
4-CHLOROPHENYL PHENYL ETHER	0.499	0.430	-14.850		
DIETHYL PHTHALATE	1.635	1.228	-28.430		
4,6-DINITRO-O-CRESOL	0.093	0.127	30.900		
N-NITROSODIPHENYLAMINE	0.408	0.248	-48.780	*	
1,2-DIPHENYLHYDRAZINE	1.789	1.171	-41.750		
4-BROMOPHENYL PHENYL ETHER	0.173	0.168	-2.930		
HEXACHLOROBENZENE	0.233	0.231	-0.860		
PENTACHLOROPHENOL	0.113	0.100	-12.200	*	
PHENANTHRENE	1.196	1.302	8.480		
ANTHRACENE	0.947	1.030	8.390		
DI-N-BUTYL PHTHALATE	1.629	1.492	-8.770		
FLUORANTHENE	1.108	1.099	-0.810	*	
PYRENE	1.689	1.710	1.230		
BENZIDINE	0.000	0.000	0.000		**

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

7% - Percent Difference

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

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

008820

31

025630

Calibration Check Report - Semi-Annual Non-Compliance

Case No. 2333 Contractor CompuChem Contract No. 68-01-6862
 Instrument Identifier DNA #14 Calibration Date 02/01/84
 Standard File HGB40209C14 Date 02/09/84 Time 05:35
 Maximum ZD for CCC is 20.00 Minimum RF for SPCC is 0.050

Compound	Avg RF	RF	ZD	CCC	SPCC
BUTYL BENZYL PHTHALATE	0.976	0.976	0.000		
BENZO (A) ANTHRACENE	1.434	1.268	-12.280		
CHRYSENE	1.111	1.033	-7.270		
3,3'-DICHLOROBENZIDINE	0.054	0.000	-200.000		
BIS (2-ETHYLHEXYL) PHTHALATE	1.330	1.379	3.610		
DI-M-OCTYL PHTHALATE	2.145	2.034	-5.310		
3,4-BENZOFLUORANTHENE	1.274	1.507	16.750		
BENZO (K) FLUORANTHENE	0.886	1.029	14.930		
BENZO (A) PYRENE	1.017	1.104	8.200		
INDENO (1,2,3-CD) PYRENE	0.928	0.392	-81.210		
DIBENZO (A,H) ANTHRACENE	0.842	0.363	-79.500		
BENZO (GHI) PERYLENE	0.911	0.354	-88.060		
ANILINE	1.007	0.248	-120.950		
BENZOIC ACID	0.137	0.118	-14.900		
BENZYL ALCOHOL	0.466	0.449	-3.710		
4-CHLOROANILINE	0.128	0.063	-68.060		
DIBENZOFURAN	1.707	1.515	-11.910		
2-METHYLNAPHTHALENE	0.234	0.213	-9.390		
O-CRESOL	0.619	0.575	-7.370		
P-CRESOL	0.700	0.684	-2.310		
2-NITROANILINE	0.035	0.031	-12.120		
3-NITROANILINE	0.467	0.419	-10.830		
4-NITROANILINE	0.019	0.005	-116.660		
5-TRICHLOROPHENOL	0.150	0.173	14.240		

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

003821

31

025631

Initial Calibration Data - Semivolatile HSL Compounds

Page 1

Case No. 2333Contractor CompuChemContract No. CG-01-6762Instrument Identifier DMA #14

Calibration Date - 02/01/84

Average 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	0.409	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	0.857	0.801	0.840	
1,4-DICHLOROBENZENE	1.004	0.950	0.919	0.852	0.907	
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	
HEXACHLOROBUTADIENE	1.046	0.140	0.153	0.152	0.149	
4-CHLORO-N-CRESOL	1.135	0.311	0.350	0.349	0.337	
1,4-CHLOROCYCLOPENTADIENE	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	0.986	0.215	0.268	0.291	0.258	
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	*
FLUDRENE	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-O-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	1.882	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	
FLUDRANTHENE	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 *)

003322

31

025632

Initial Calibration Data - Semivolatile HSL Compounds

Page .

Case No. 2333Contractor CompuChemContract No. 68-01-6862Instrument 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
BUTYL BENZYL PHTHALATE	0.960	1.014	0.953	0.961	0.976	
BENZO (A) ANTHRACENE	0.998	1.425	1.442	1.436	1.434	
CHRYSENE	1.002	1.196	1.070	1.066	1.111	
3,3'-DICHLOROBENZIDINE	1.004	0.057	0.054	0.051	0.054	
BIS (2-ETHYLHEXYL) PHTHALATE	1.019	1.418	1.299	1.274	1.330	
DI-M-OCTYL PHTHALATE	1.075	2.243	2.046	2.148	2.145	
3,4-BENZOFUORANTHENE	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-CHLOROANILINE	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	
O-CRESOL	1.092	0.639	0.634	0.584	0.619	
P-CRESOL	1.130	0.694	0.723	0.683	0.700	
4-NITROANILINE	1.001	0.010	0.036	0.058	0.034	
3-NITROANILINE	0.942	0.408	0.469	0.325	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	

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 *)

003823

31

025633

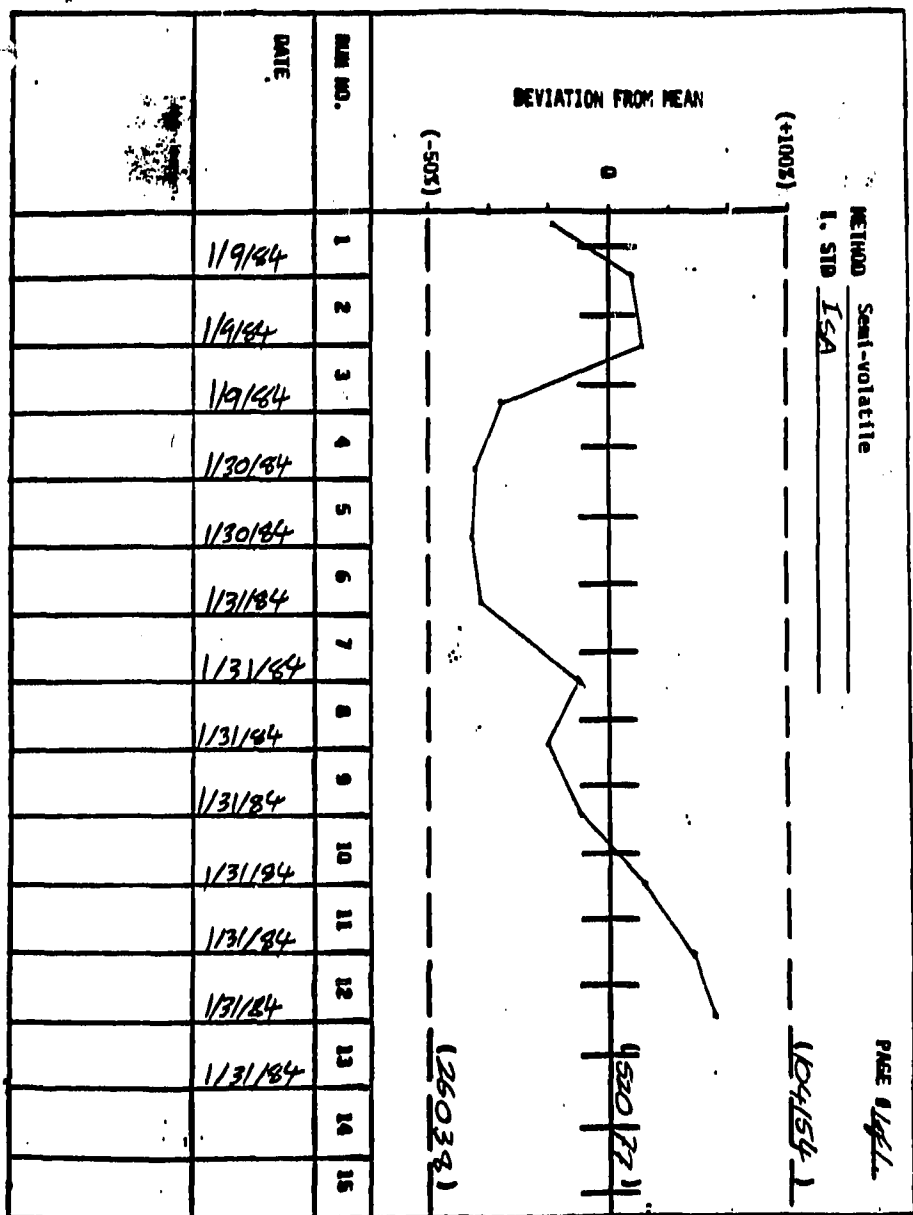
Semi-Volatile

Case 2333

1	~~19239~~	~~130B15~~
2	~~19241~~	~~131A15~~
3	19190	↓
4	19554	131B15
5	19555	131B18
6	19556	↓
7	19557	201C15
8	~~19252~~	↓
9	~~19251~~	↓
10	19265	↓
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		

31

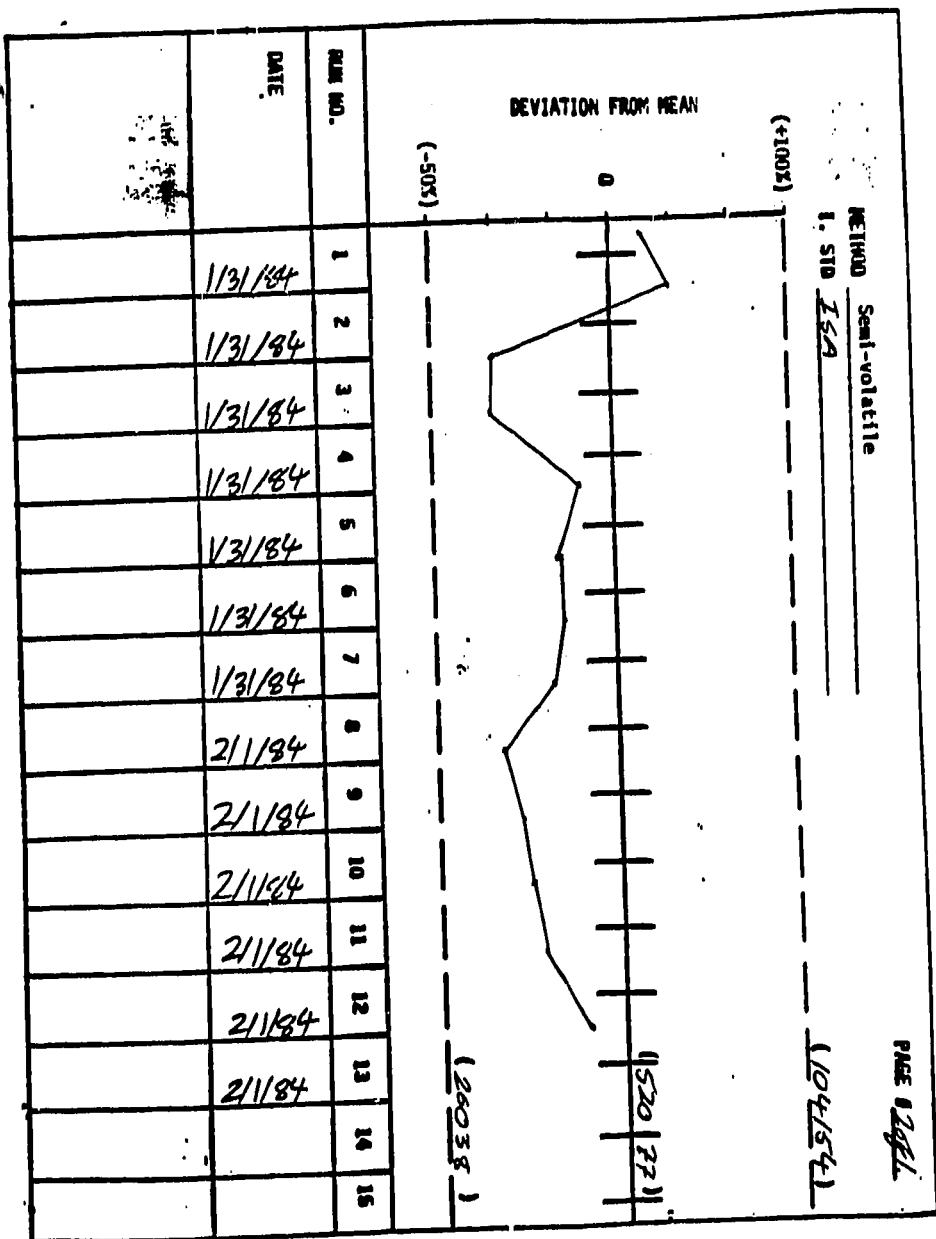
025634



000025

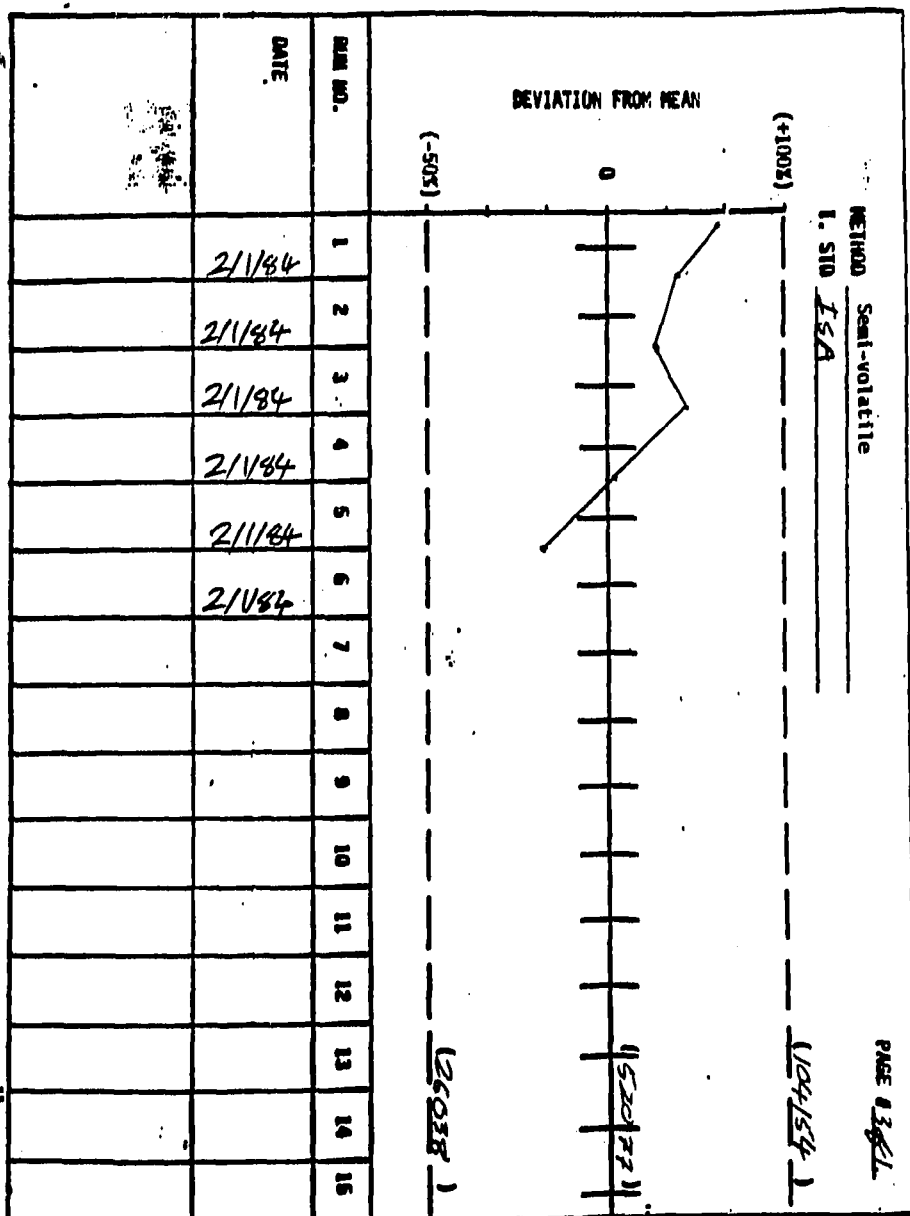
31

025635



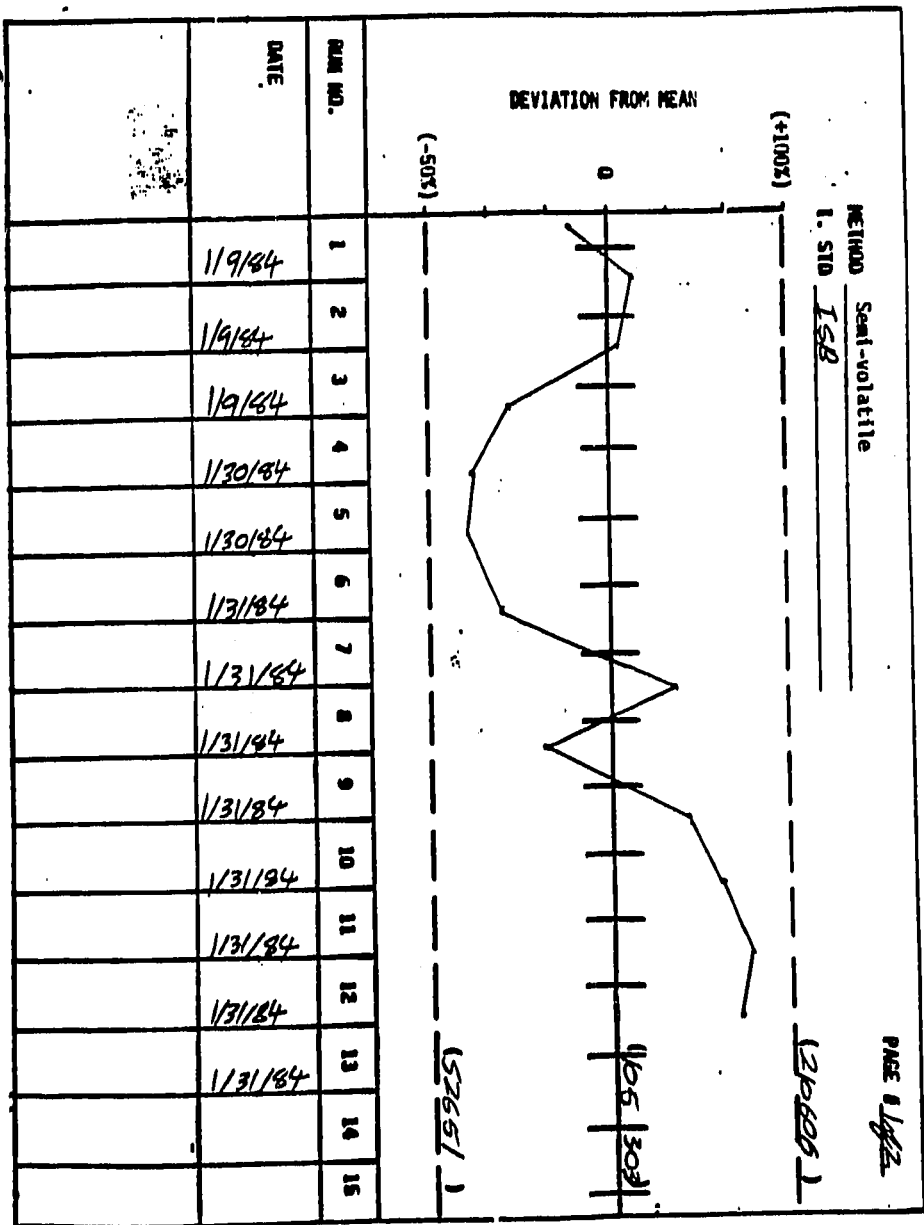
009326

025636



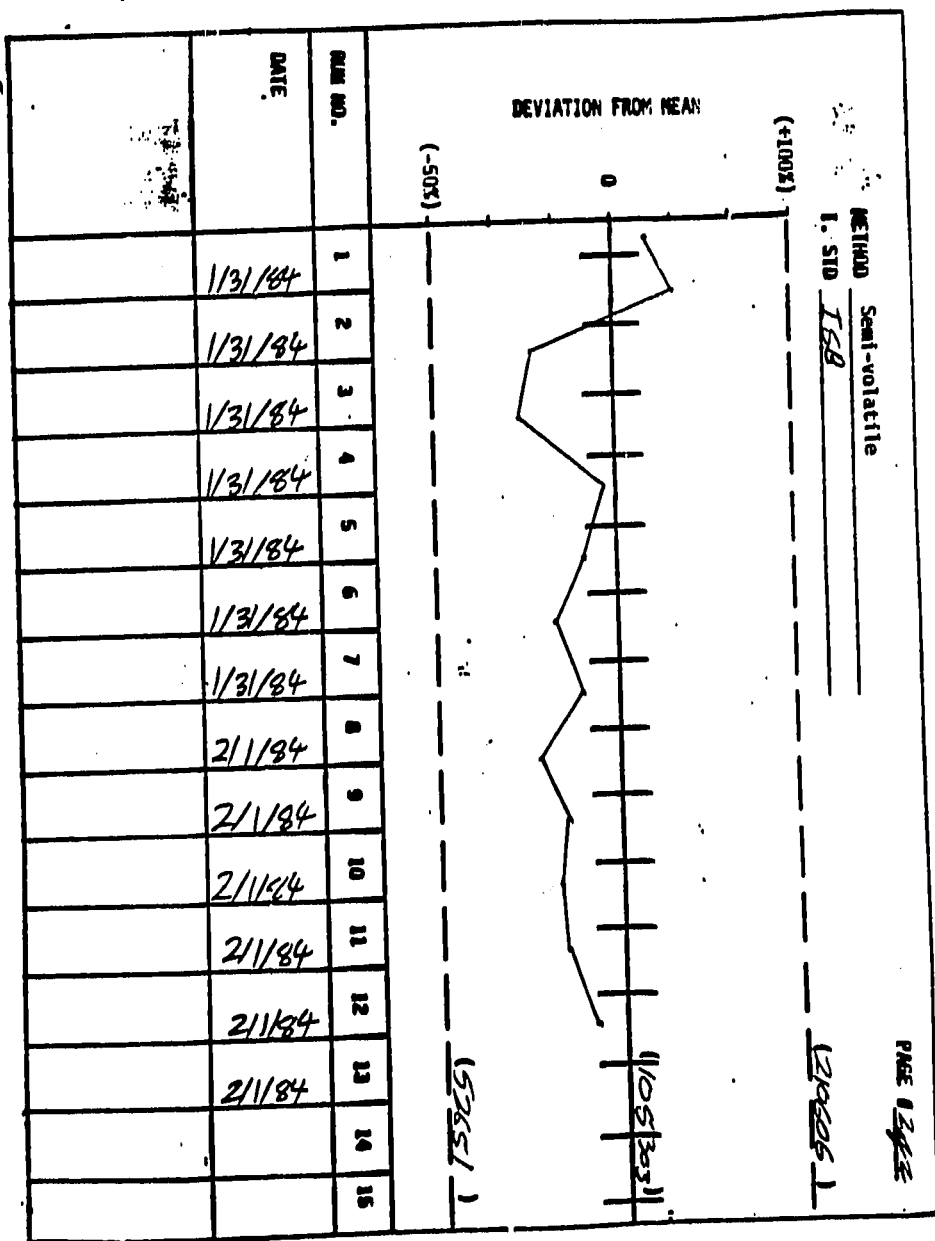
003327

025637



025633

000000



003229

025603

PAGE 0382

METHOD Seal-volatile

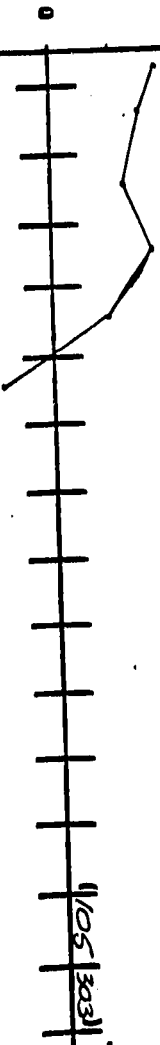
I. STD 158

1250051

(+100%)

DEVIATION FROM MEAN

(-50%)

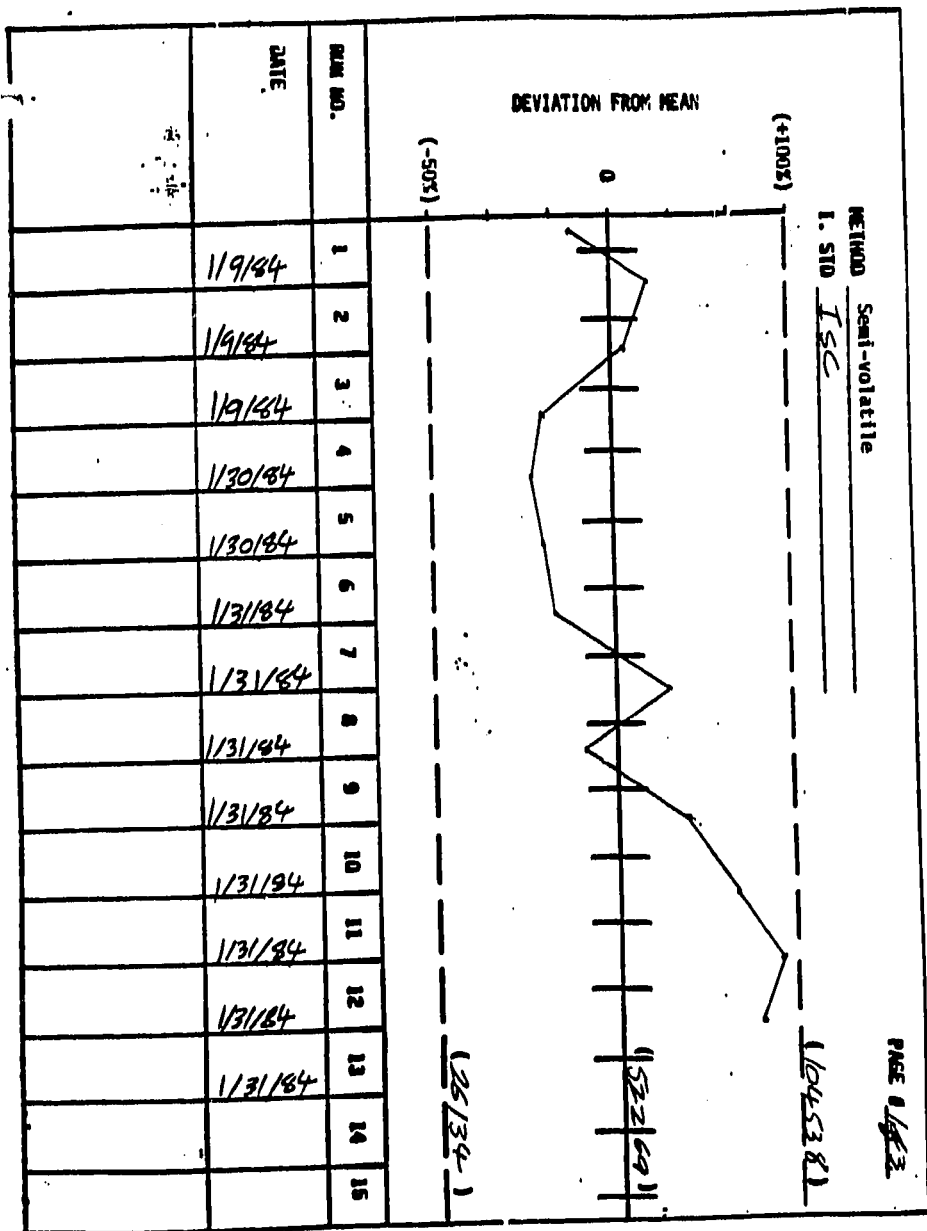


RUN NO.	DATE
1	2/1/84
2	2/1/84
3	2/1/84
4	2/1/84
5	2/1/84
6	2/1/84
7	
8	
9	
10	
11	
12	
13	
14	
15	

152051

003330
025640

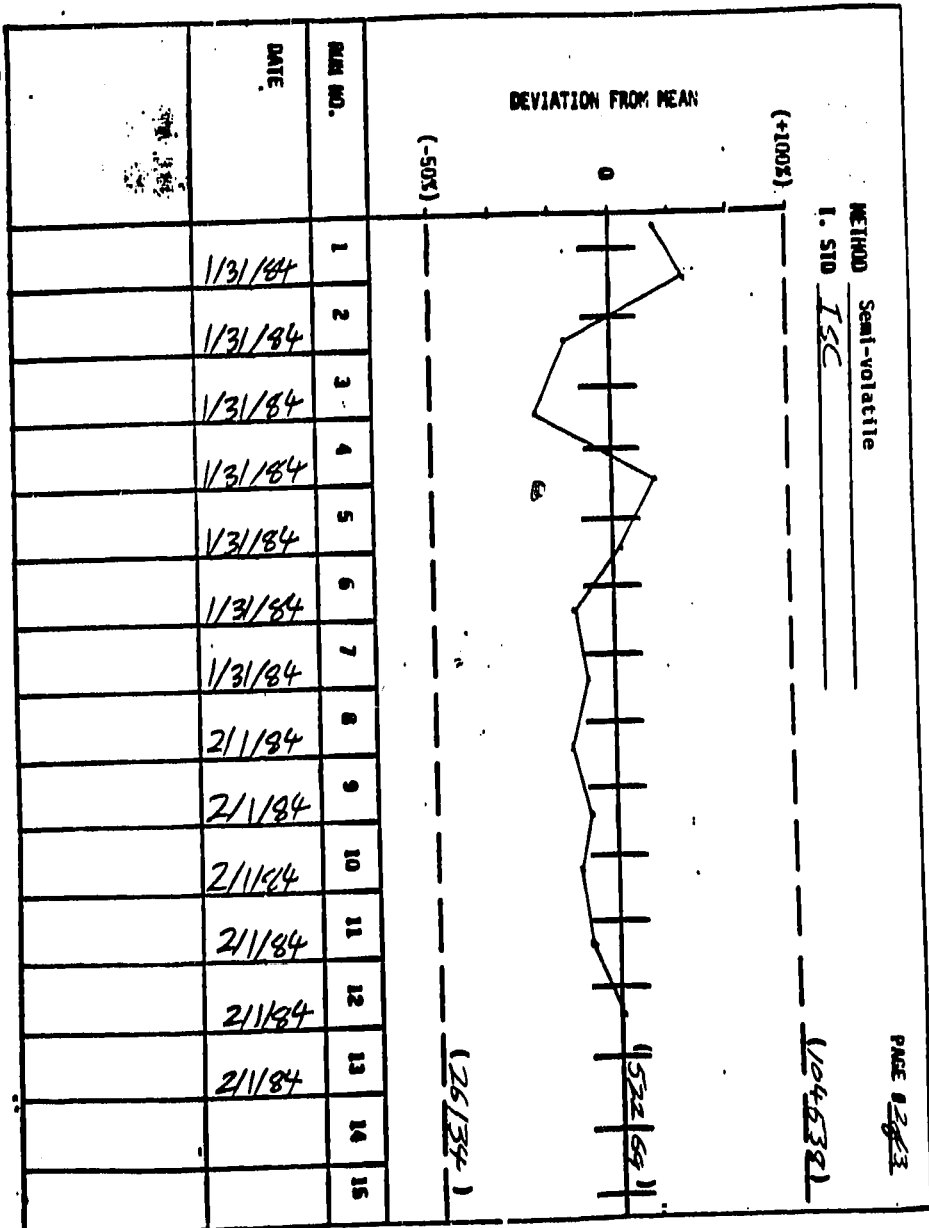
31



002231

31

025641



008832

31 025642

METHOD Semi-volatile

1. STD ISC

PAGE 1383

1104538

DEVIATION FROM MEAN

(+100%)

0

(-50%)

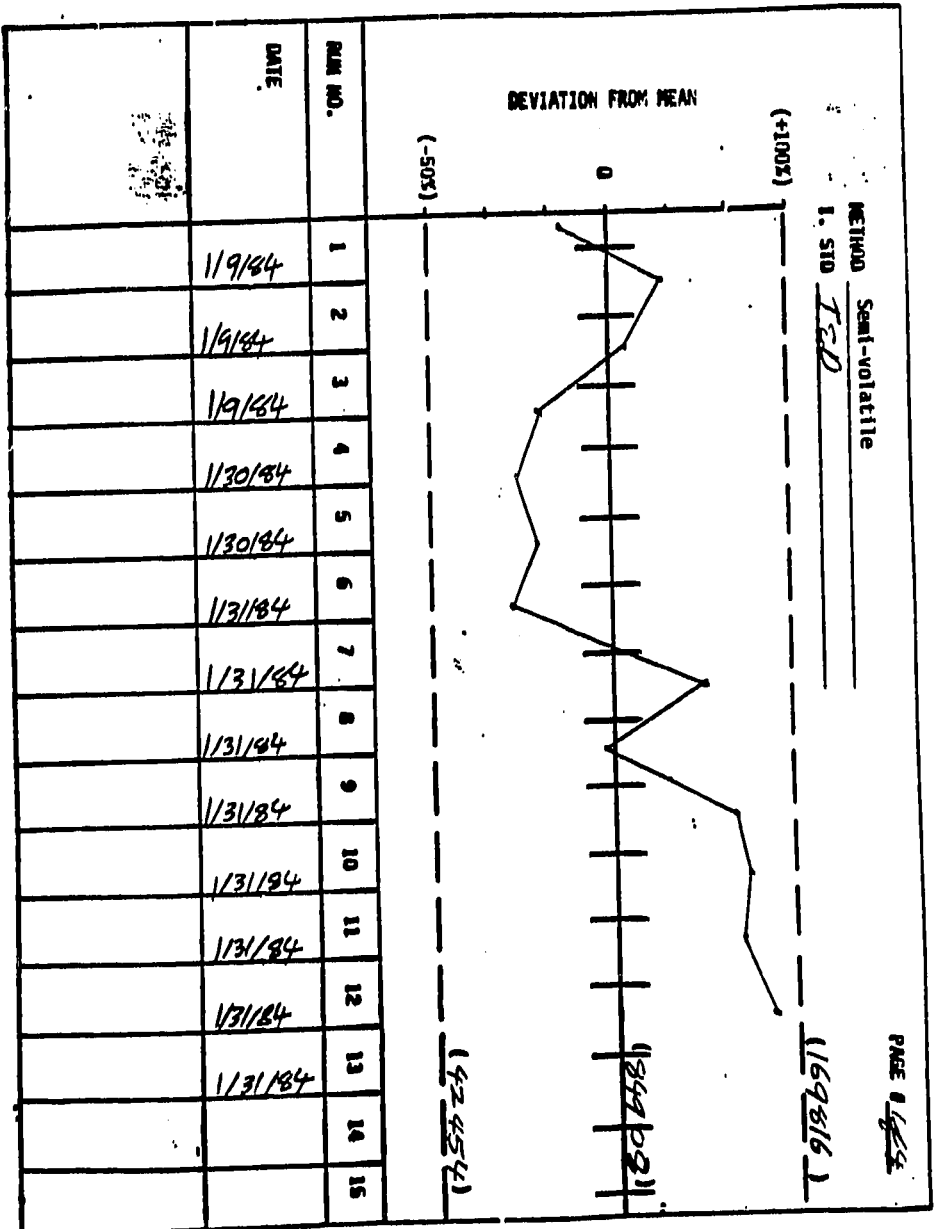
(26/34)

DATE	RUN NO.	DEVIATION FROM MEAN
2/1/84	1	
2/1/84	2	
2/1/84	3	
2/1/84	4	
2/1/84	5	
2/1/84	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	

003333

31

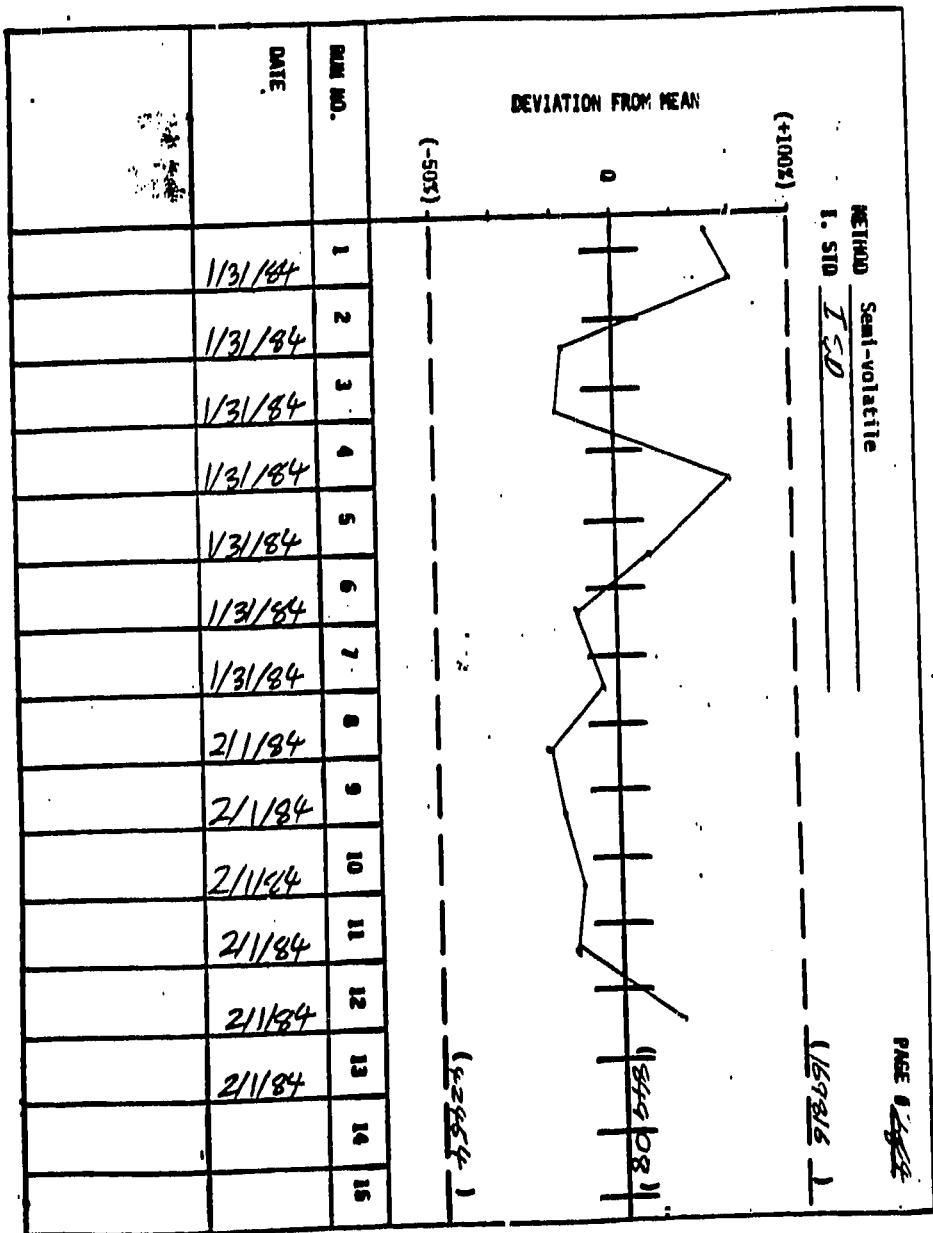
025643



003334

31

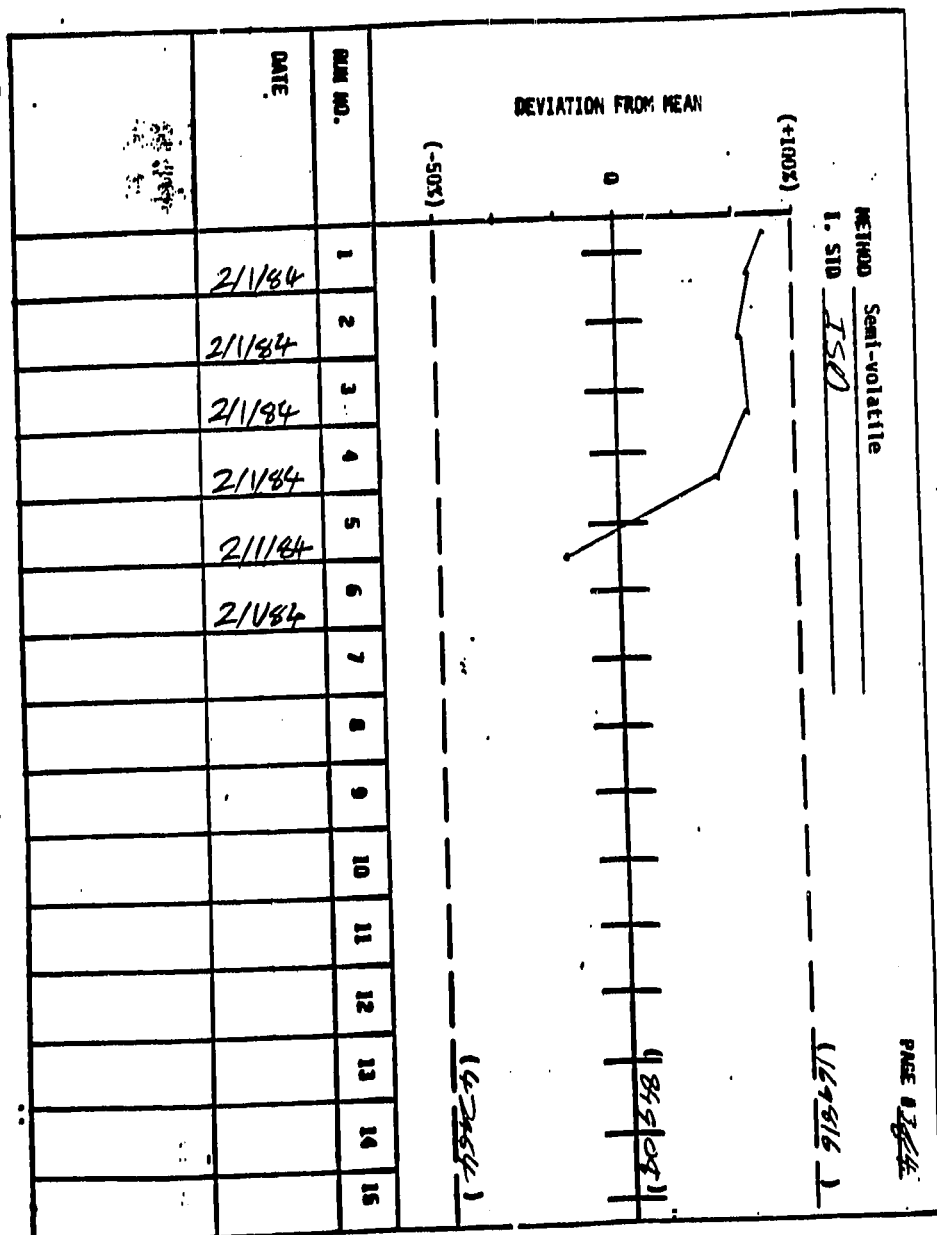
025644



003335

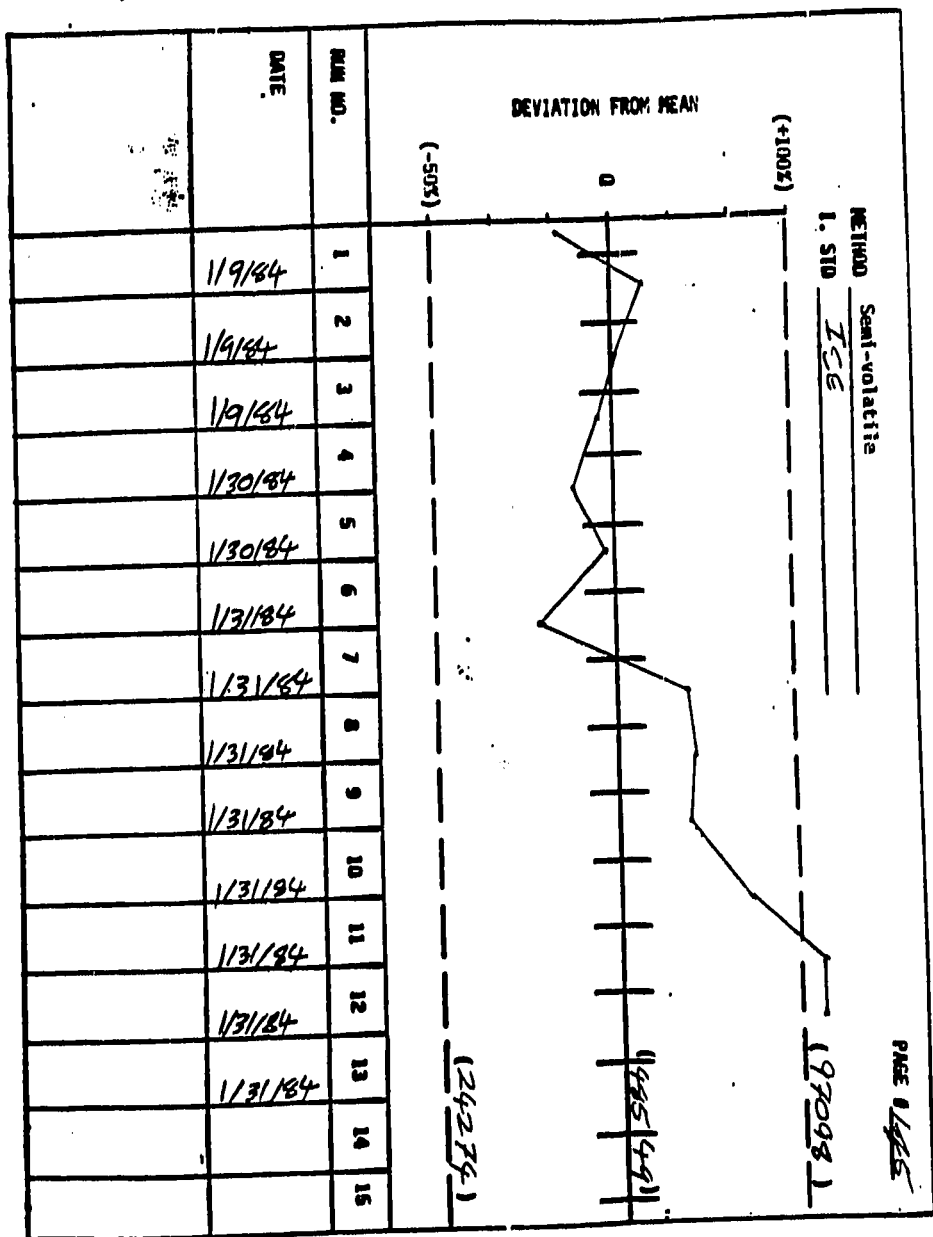
31

025645



003836

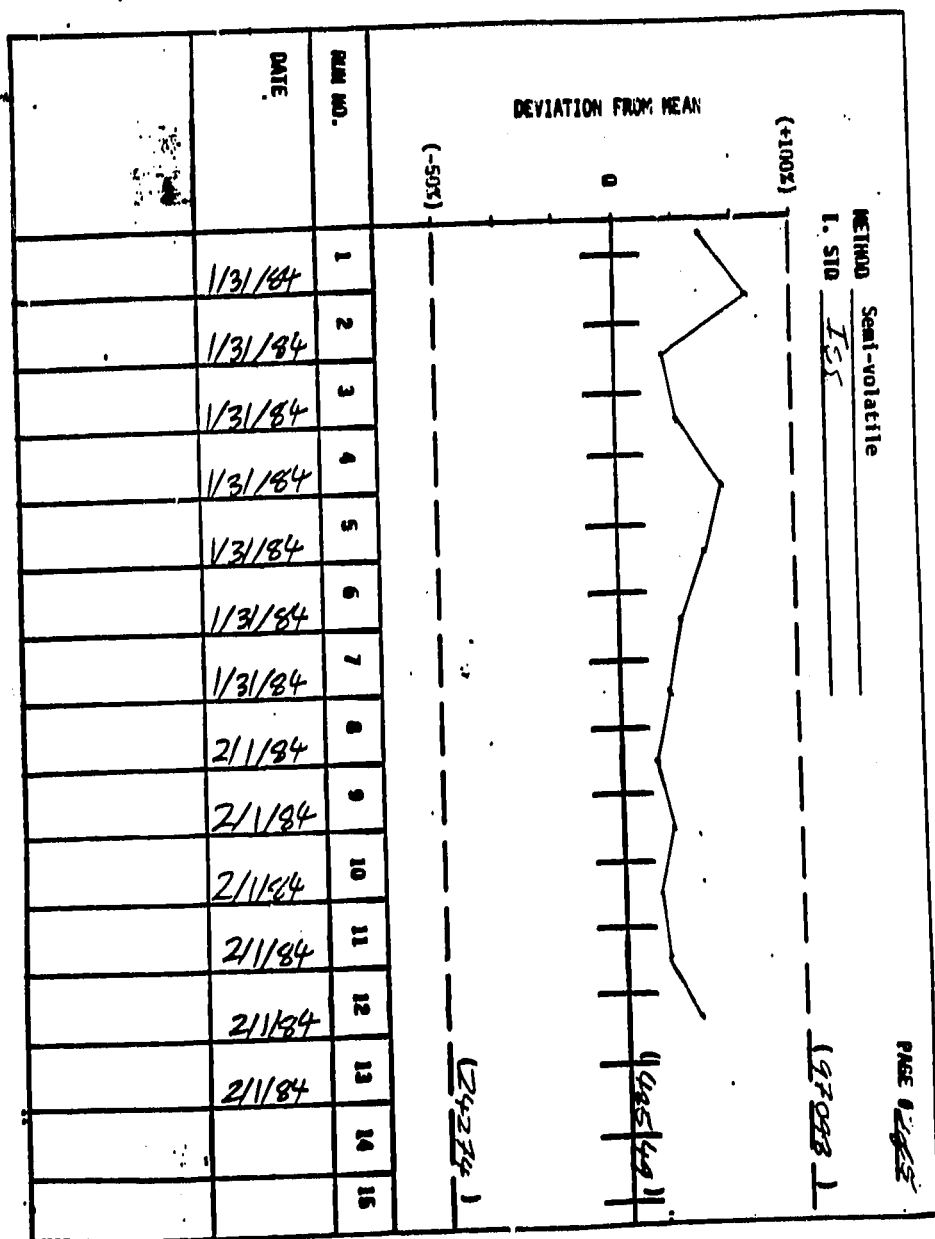
31 025643



000000

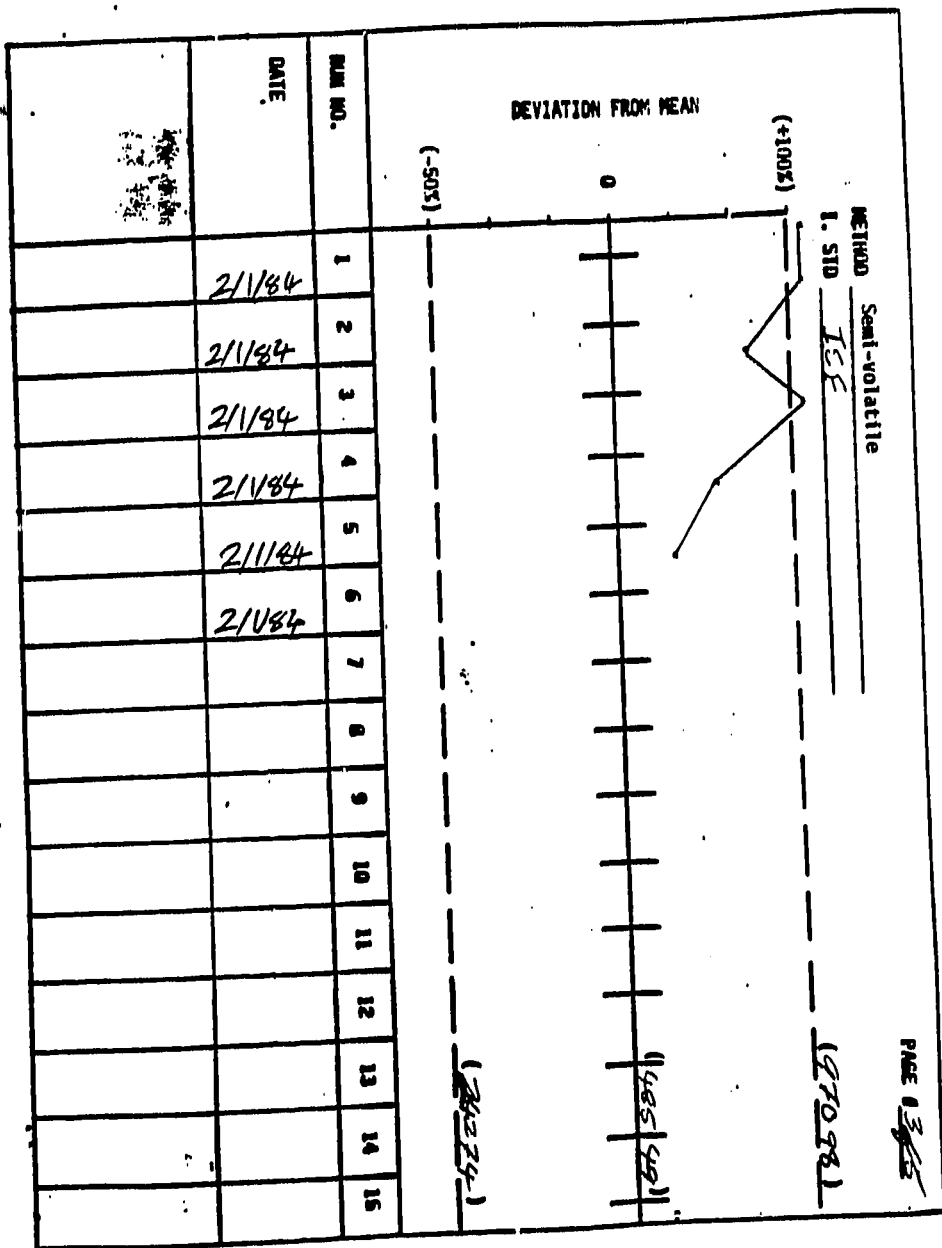
31

025647



003038

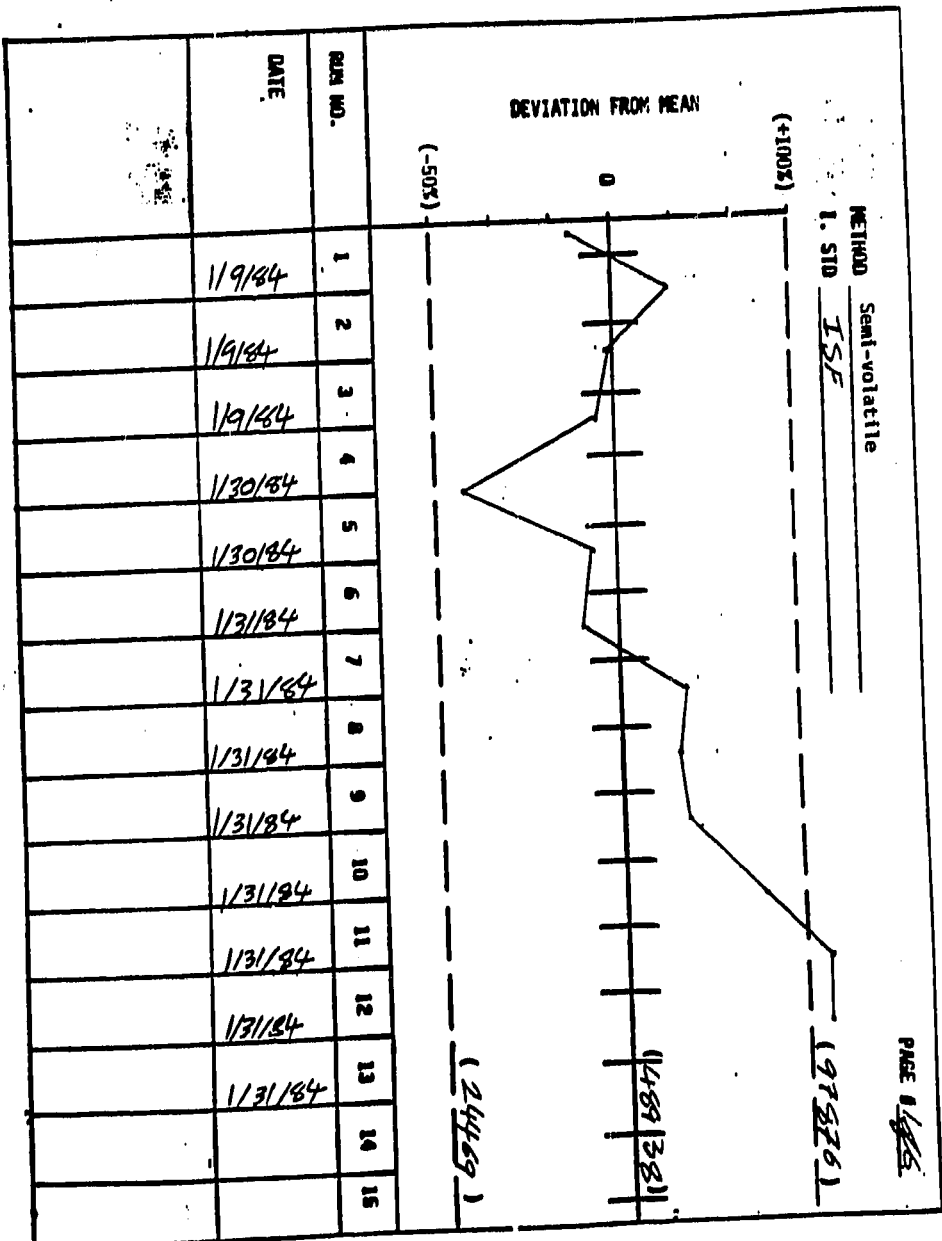
025643



003339

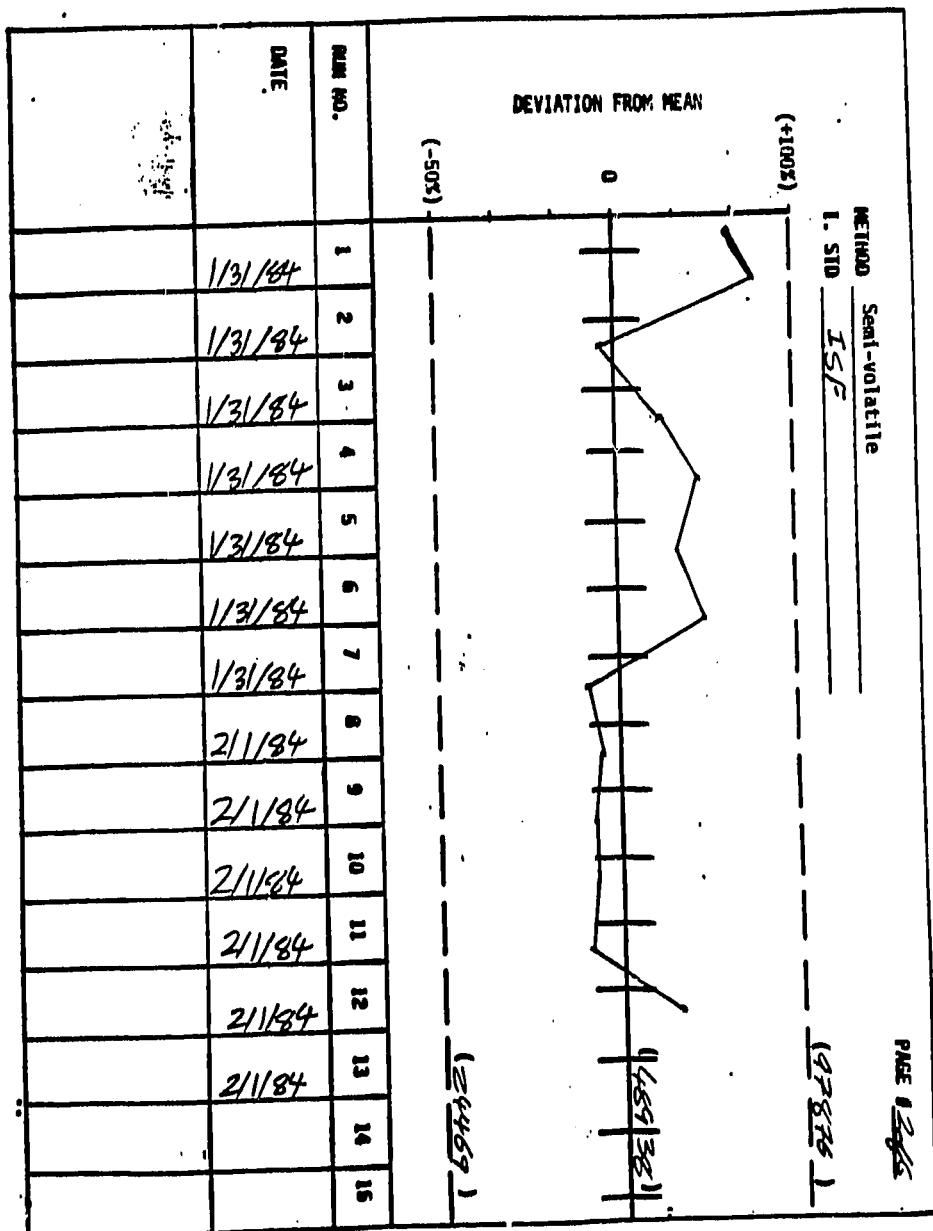
31

025643



003440

025650



PAGE 8 *24/85*

METHOD Semi-volatile

1. STD ISF

(17825)

DEVIATION FROM MEAN

(+100%)

0

(-50%)

(24468)

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

003242

31 025652

Internal Standard Response Verification Data Sheet

PAGE 1

Case No.

Contractor CompuChem

Contract No.

68-01-6762Instrument I.D. DWA_015

R.C. Report No.

Sample/Run	Date	15B		15C		15D		15E		15F		R1	R2	R3	R4	R5	
		Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT	Resp Area	RRT						
NI840109A15 010984	46621	.339	99352	.422	47303	.342	76466	.422	44018	.832	41227	1.000	.469	2.100	.619	1.737	1.068
NI840109A15 010984	54274	.339	109833	.422	56275	.342	91749	.422	53073	.831	57294	1.000	.494	1.952	.613	1.729	.928
NI840109A15 010984	55337	.339	106726	.422	53231	.342	86509	.422	48557	.832	48294	1.000	.518	2.005	.615	1.782	1.005
NI840130B15 013084	38209	.339	73590	.429	40057	.359	68502	.429	46227	.866	46509	1.000	.519	1.837	.585	1.482	.954
NI840130B15 013084	36915	.337	45893	.426	37209	.355	61455	.426	42567	.863	27397	1.000	.469	1.771	.605	1.444	1.534
NI840131B15 013184	30860	.337	85820	.426	39159	.355	65881	.426	47134	.863	43630	1.000	.469	1.681	.594	1.398	1.080
NI840131B15 013184	31781	.336	70547	.425	41190	.355	57758	.425	38697	.863	41766	1.000	.450	1.713	.713	1.493	.927
NI840131C15 013184	49409	.337	111249	.426	59209	.356	99464	.426	59187	.863	57200	1.000	.444	1.879	.595	1.621	1.035
NI840131C15 013184	45902	.337	86190	.426	48882	.356	84341	.426	60682	.863	55812	1.000	.533	1.763	.586	1.390	1.087
NI840131C15 013184	49604	.337	118428	.426	60853	.355	101246	.426	59786	.863	57070	1.000	.421	1.946	.601	1.693	1.048
NI840131C15 013184	57067	.337	148644	.425	80794	.355	138019	.425	89135	.863	91783	1.000	.384	1.840	.585	1.548	.971
NI840131C15 013184	78753	.337	183433	.426	103666	.355	133100	.426	113335	.862	110830	1.000	.429	1.768	.779	1.174	1.023
NI840131C15 013184	82258	.337	173180	.426	91968	.355	155350	.426	102368	.862	110211	1.000	.475	1.883	.592	1.518	.929
NI840131B15 013184	57998	.337	112108	.426	61285	.355	104712	.426	67645	.862	83007	1.000	.517	1.829	.585	1.543	.815
NI840131C15 013184	70543	.337	142731	.426	78131	.355	132620	.426	89669	.863	89912	1.000	.494	1.827	.589	1.479	.957
NI840131B15 013184	32294	.337	78581	.426	44096	.355	77725	.426	54973	.863	48697	1.000	.410	1.782	.567	1.414	1.125
NI840131B15 013184	31416	.337	73568	.426	35943	.355	76720	.426	57290	.863	53814	1.000	.427	2.047	.466	1.335	1.065
NI840131B15 013184	47223	.337	104344	.426	66464	.356	104862	.426	71925	.864	69345	1.000	.453	1.726	.577	1.458	1.037
NI840131B15 013184	41180	.337	94588	.426	52826	.355	89550	.426	63259	.863	62881	1.000	.435	1.791	.590	1.416	1.006
NI840131B15 013184	42553	.337	82665	.426	41444	.355	78546	.426	57782	.864	69462	1.000	.515	1.873	.562	1.359	.832
NI840131C15 020184	40812	.337	93107	.426	50129	.355	83212	.426	55345	.864	40897	1.000	.438	1.857	.602	1.504	1.353
NI840131C15 020184	31754	.337	74227	.426	43610	.355	70783	.426	50684	.864	47131	1.000	.428	1.702	.616	1.414	1.062
NI840131C15 020184	35588	.337	88946	.426	30189	.356	74612	.426	54688	.865	49001	1.000	.400	1.772	.673	1.364	1.215
NI840131C15 020184	37667	.337	86219	.426	46163	.355	80508	.426	50912	.864	45095	1.000	.437	1.868	.573	1.581	1.129
NI840131C15 020184	39074	.337	87128	.426	48962	.355	79905	.426	53198	.864	41380	1.000	.448	1.780	.613	1.502	1.286
NI840201C15 020184	49251	.336	96044	.425	52286	.355	92703	.425	60987	.863	61789	1.000	.513	1.837	.564	1.520	.987
NI840201C15 020184	86507	.336	174812	.425	91370	.354	154779	.425	98384	.863	93258	1.000	.495	1.913	.590	1.573	1.055
NI840201B15 020184	75352	.337	153192	.425	80285	.355	137872	.425	97527	.863	91679	1.000	.492	1.908	.582	1.414	1.064
NI840201B15 020184	63696	.337	122843	.426	74788	.355	127296	.426	89331	.863	80537	1.000	.475	1.776	.588	1.425	1.109
NI840201B15 020184	77586	.337	168508	.425	89275	.354	150913	.425	97303	.862	87036	1.000	.460	1.888	.592	1.551	1.116
NI840201B15 020184	52182	.336	119066	.425	66383	.354	114429	.425	79057	.862	73861	1.000	.438	1.794	.580	1.447	1.070
NI840201B15 020184	42239	.336	81539	.425	45279	.354	77009	.425	58071	.862	70085	1.000	.518	1.801	.588	1.326	.825

R1 = (Resp 15A/Resp 15B)

R2 = (Resp 15B/Resp 15C)

R3 = (Resp 15C/Resp 15D)

R4 = (Resp 15D/Resp 15E)

R5 = (Resp 15E/Resp 15F)

025653

R1 R2 R3 R4 R5

31

Calibration Check Report - Semi-volatile HPL Compounds

Page 1

Sample _____
 Document Identifier 00A 015
 Standard File NUM40201C15
 Minimum SD for CCC is 20.00

Contractor CampChen
 Minimum RF for SPCC is 0.050

Contract No. 68-01-6762
 Calibration Date 01/09/04
 Date 02/01/04 Time 00:01

Compound	Avg RF	RF	SD	CCC	SPCC
N-NITROSO-N-ETHYLAMINE	0.734	0.534	-31.540		
DEB (2-CHLOROMETHYL) ETHER	1.215	1.162	-4.430		
3-CHLOROPHENOL	0.831	0.782	-4.670		
PHENOL	1.324	1.177	-11.730		
1,3-DICHLOROBENZENE	0.872	0.838	-4.110		
1,4-DICHLOROBENZENE	0.947	0.938	-0.950		
1,2-DICHLOROBENZENE	0.840	0.837	-0.330		
DEB (2-CHLOROISOPROPYL) ETHER	0.332	0.293	-11.800		
HEXACHLOROBUTADIENE	0.401	0.434	7.900		
N-NITROSO-1-N-PROPYLAMINE	0.168	0.167	-0.570		
NITROBENZENE	0.463	0.420	-9.730		
ISOPHORENE	0.954	0.988	3.300		
2-NITROPHENOL	0.183	0.201	9.370		
2,4-DINITROPHENOL	0.351	0.338	1.970		
DEB (2-CHLOROMETHOXY) METHANE	0.607	0.573	-3.760		
2,4-DICHLOROPHENOL	0.230	0.276	6.740		
1,2,4-TRICHLOROBENZENE	0.267	0.311	13.220		
ISOPHTHALENE	1.189	1.162	-4.630		
HEXACHLOROBTADIENE	0.166	0.133	3.900		
1,3-DINITRO-4-CRESOL	0.432	0.400	7.630		
HEXACHLORO-CYCLOPENTADIENE	0.092	0.062	-30.960		
2,4,6-TRICHLOROPHENOL	0.340	0.192	-73.000		
3-CHLOROISOPHTHALENE	1.126	1.134	0.700		
ACENAPHTHYLENE	1.015	1.736	32.410		
BENETHYL PHTHALATE	1.334	1.334	13.230		
2,4-DINITROTOLUENE	0.428	0.306	-33.260		
ACENAPHTHENE	1.172	1.112	-6.230		
2,4-DINITROPHENOL	0.042	0.043	2.330		
2,4-DINITROTOLUENE	0.409	0.460	13.930		
4-NITROPHENOL	0.133	0.114	-30.000		
FLUORENE	1.283	1.291	0.620		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.464	3.280		
DIETHYL PHTHALATE	1.704	1.810	6.030		
0,6-DINITRO-4-CRESOL	0.080	0.130	47.610		
N-NITROSO-2-PHENYLAMINE	0.371	0.664	32.030		
1,3-DIPHENYLTHIAZINE	2.611	2.279	-13.570		
4-BROMOPHENYL PHENYL ETHER	0.178	0.161	-10.020		
HEXACHLOROBENZENE	0.198	0.193	-2.830		
PENTACHLOROPHENOL	0.090	0.081	-10.320		
PHENANTHRENE	1.014	1.090	7.930		
ANTHRACENE	0.947	0.976	3.010		
01-N-BUTYL PHTHALATE	1.699	1.749	2.900		
FLUORANTHENE	1.638	1.104	4.230		
PYRENE	1.049	1.672	-10.030		
DEKALINE	0.000	0.000	0.000		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

SD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an C)

SPCC - System Performance Check Compounds (these compounds flagged with an S)

31

003341
025654

Calibration Check Report - Semi-volatile HPL Compounds

Page 2

Contractor CompChem Contract No. 68-01-6762
 Instrument Identifier 000 013 Calibration Date 01/09/04
 Standard File 00040306C10 Date 02/01/04 Time 00:01
 Minimum SD for CCC is 20.00 Minimum RF for BPCC is 0.050

Compound	Avg RF	RF	SD	CCC	BPCC
BUTYL BENZYL PHTHALATE	1.107	1.002	-2.200		
BENZOL (A) ANTHRACENE	1.420	1.340	-4.310		
BENZYNE	1.177	1.323	9.900		
2,3'-BICHLOROBENZIDINE	0.016	0.000	-200.000		
BBD (2-ETHYLHEXYL) PHTHALATE	1.473	1.071	-0.130		
21-2-BUTYL PHTHALATE	2.302	2.674	3.300		
2,4-BENZOPHTHALENE	1.114	1.103	-0.990		
BENZOL (X) FLUORANTHENE	0.975	1.212	21.670		
BENZOL (A) PYRENE	0.990	1.077	9.450		
BENZOL (1,2,3-CD) PYRENE	0.571	0.657	14.340		
BENZOL (A,B) ANTHRACENE	0.705	0.573	-20.310		
BENZOL (B,C) PERYLENE	0.001	0.273	-100.170		
BENZOL	1.176	0.910	-27.160		
BENZOLIC ACID	0.200	0.326	47.900		
BENZYL ALCOHOL	0.350	0.326	-4.460		
4-CHLOROBENZYL	0.160	0.254	57.060		
BICHLOROPYRIM	1.637	1.647	-0.400		
2-METHYLBIPHENYLENE	0.307	0.356	16.700		
4-CHENYL	0.004	0.774	-1.250		
ENAL	0.001	0.003	-0.010		
2-NITROBENZYL	0.041	0.024	-32.300		
3-NITROBENZYL	0.429	0.432	3.220		
4-NITROBENZYL	0.070	0.047	-35.270		
2,4,5-TRICHLOROPHENOL	0.150	0.170	17.070		

RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 SD - Percent Difference
 CCC - Calibration Check Compounds (these compounds flagged with an e)
 BPCC - System Performance Check Compounds (these compounds flagged with an e)

0000045

025655

31

Calibration Check Report - Semi-volatile HRL Compounds

Page 1

Document No. _____
 Document Identifier 00A 015
 Standard File 00040131013
 Minimum SD for CCC is 20.00

Contractor CompChem
 Minimum RF for BPCC is 0.050

Contract No. 68-01-6762
 Calibration Date 01/07/04
 Date 01/31/04 Time 22:55

Compound	Avg RF	RF	SD	CCC	BPCC
0-NITROBENZYLAMINE	0.734	0.457	-44.510		
003 (2-CHLOROMETHYL) ETHER	1.215	1.073	-12.410		
2-CHLOROPHENOL	0.831	0.752	-9.980		
PHENOL	1.324	1.004	-27.490	0	
1,3-DICHLOROBENZENE	0.072	0.081	1.020		
1,4-DICHLOROBENZENE	0.947	0.951	0.420	0	
1,2-DICHLOROBENZENE	0.040	0.025	-1.000		
010 (2-CHLOROPROPYL) ETHER	0.332	0.270	-20.570		
HEXACHLORETHANE	0.401	0.372	-7.500		
0-NITROBIS(1-PROPYLAMINE	0.168	0.148	-12.650		00
NITROBENZENE	0.443	0.394	-10.650		
THIOPHENE	0.754	0.805	-14.940		
2-NITROPHENOL	0.183	0.185	1.000	0	
2,4-DINITROPHENOL	0.351	0.320	-9.230		
003 (2-CHLOROMETHYL) METHANE	0.607	0.403	-22.750		
2,4-DICHLOROPHENOL	0.250	0.283	9.940	0	
1,2,4-TRICHLOROBENZENE	0.267	0.347	26.050		
000PHTHALENE	1.109	1.132	-4.910		
000TETRACHLOROBENZENE	0.144	0.184	24.070	0	
1,0,0-0-CHENOL	0.452	0.414	-8.770	0	
000TETRACHLOROBENZENE	0.072	0.052	-25.950		00
2,4,6-TRICHLOROPHENOL	0.540	0.100	-74.700	0	
2-CHLOROPHTHALENE	1.124	1.179	4.970		
ACENAPHTHYLENE	1.015	1.100	8.030		
000ETHYL PHTHALATE	1.334	1.431	7.010		
2,4-DINITROTOLUENE	0.428	0.200	-37.100		
ACENAPHTHENE	1.172	1.140	-2.740	0	
2,4-DINITROPHENOL	0.042	0.053	26.000		00
2,4-DINITROTOLUENE	0.409	0.420	2.650		
4-NITROPHENOL	0.155	0.041	-114.320		00
FLUORENE	1.203	1.203	0.130		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.516	13.000		
BIS(2-ETHYL PHTHALATE	1.704	1.632	-3.090		
4,6-DINITRO-0-CHENOL	0.080	0.119	37.170		
0-NITROBISPHENYLAMINE	0.391	0.409	4.300	0	
1,2-DIPHENYLIMIDAZINE	2.611	1.073	-31.000		
4-BROMOPHENYL PHENYL ETHER	0.170	0.107	2.970		
HEXACHLOROBENZENE	0.190	0.230	14.930		
PENTACHLOROPHENOL	0.070	0.103	15.300	0	
PIRENTHRENE	1.014	1.030	2.330		
ANTHRACENE	0.947	1.009	6.330		
01-0-BUTYL PHTHALATE	1.079	1.601	-3.930		
FLUORANTHENE	1.030	1.131	6.640	0	
PYRENE	1.049	1.341	-10.170		
BENZIDINE	0.000	0.000	0.000		00

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

SD - Percent Difference

CCC - Calibration Check Compounds (those compounds flagged with an 0)

BPCC - System Performance Check Compounds (those compounds flagged with 00)

003246
025656

31

Calibration Check Report - Semi-volatile HCL Compounds

Page 2

Instrument No. _____ Contractor CampChem Contract No. 168-01-6762
 Government Identifier 000 015 Calibration Date 01/09/04
 Standard File HW40130813 Data 01/31/04 Time 22:35
 Minimum SD for CCC is 20.00 Minimum RF for BPCC is 0.050

Compound	Avg RF	RF	SD	CCC	BPCC
ETHYL BENZYL PHTHALATE	1.107	0.916	-68.800		
BENZID (A) ANTHRACENE	1.020	1.250	-12.730		
ANTHRENE	1.197	1.297	0.000		
2,1'-BICHLORODIBENZITRINE	0.016	0.000	-200.200		
BIS (2-ETHYLBENZYL) PHTHALATE	1.493	1.293	-14.330		
2,1'-BETHYL PHTHALATE	2.302	2.315	-10.900		
2,4-BENZOFLOUANTHRENE	1.114	1.000	-3.090		
BENZID (K) FLUORANTHRENE	0.975	0.977	0.000		
BENZID (A) PYRENE	0.990	1.012	1.390		
BENZID (1,2,3-CD) PYRENE	0.571	0.764	20.910		
BENZID (A,B) ANTHRACENE	0.705	0.453	-43.320		
BENZID (B,H) PERYLENE	0.801	0.727	-19.150		
ANILINE	1.196	0.500	-69.360		
BENZIC ACID	0.200	0.127	-44.640		
BENZYL ALCOHOL	0.350	0.431	-24.260		
4-CHLORANILINE	0.140	0.156	10.010		
DIBENZOFURAN	1.657	1.710	3.160		
2-METHYLBIPHENYLENE	0.307	0.353	13.930		
2-NEOL	0.004	0.600	-16.710		
2-NEOL	0.001	0.721	-19.970		
2-NITROANILINE	0.041	0.012	-109.430		
3-NITROANILINE	0.429	0.361	-17.210		
4-NITROANILINE	0.070	0.032	-74.500		
2,4,5-TRICHLOROPHOL	0.150	0.186	21.420		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

SD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an *)

BPCC - System Performance Check Compounds (these compounds flagged with **)

025657

000007

31

Calibration Check Report - Semivolatile NML Compounds

Page 1

Instrument Identifier 88A 015
 Standard File 88040132015
 Revision 10 for CCC is "00-00"

Contractor CompChemContract No. 68-01-6762
 Calibration Date 01/07/04
 Date 01/31/04 Time 14:31

Minimum RF for NPCC is 0.950

Compound	Avg RF	RF	SD	CCC	NPCC
24-NITROBROMINETHYLANINE	0.774	0.440	-45.070		
DEB (2-CHLOROMETHYL) ETHER	1.215	1.383	-11.400		
2-CHLOROPHENOL	0.831	0.767	-7.750		
PHENOL	1.324	1.043	-21.400	0	
1,3-DICHLOROBENZENE	0.872	0.854	-1.850		
1,4-DICHLOROBENZENE	0.947	0.944	-0.100	0	
1,2-DICHLOROBENZENE	0.849	0.842	0.230		
DEB (2-CHLORODIMETHYL) ETHER	0.332	0.283	-15.750		
HEXACHLOROCYCLOHEPTADIENE	0.401	0.386	-3.010		
2-NITROBROMO-N-PROPYLANINE	0.160	0.151	-10.650		00
NITROBENZENE	0.443	0.403	-13.850		
ISOPHTHALENE	0.954	0.833	-13.540		
2-NITROPHENOL	0.183	0.203	10.340	0	
2,4-DINITROPHENOL	0.331	0.324	-0.400		
DEB (2-CHLOROMETHYL) METHANE	0.607	0.497	-19.720		
2,4-DICHLOROPHENOL	0.250	0.292	12.340	0	
1,2,4-TRICHLOROBENZENE	0.247	0.350	26.700		
ISOPHTHALENE	1.109	1.123	-5.700		
OPTACHLORODIMETHADIENE	0.144	0.184	24.070	0	
LABO-N-CHEMOL	0.432	0.423	-4.630	0	
HEXACHLOROCYCLOPENTADIENE	0.092	0.044	-30.000		00
2,4,6-TRICHLOROPHENOL	0.540	0.229	-80.000	0	
2-CHLORODIMETHADIENE	1.124	1.180	4.600		
ACENAPHTHYLENE	1.015	1.070	5.270		
DIMETHYL PHTHALATE	1.334	1.404	8.250		
2,4-DINITROTOLUENE	0.420	0.299	-47.190		
ACENAPHTHYLENE	1.172	1.109	-5.520	0	
2,4-DINITROPHENOL	0.042	0.054	20.570		00
2,4-DINITROTOLUENE	0.409	0.344	-11.070		
4-NITROPHENOL	0.153	0.072	-73.120		00
FLUORENE	1.283	1.238	-3.570		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.509	12.520		
DIMETHYL PHTHALATE	1.704	1.581	-7.400		
4,6-DINITRO-N-CHEMOL	0.000	0.113	34.190		
2-NITROBROMOPHTHALANINE	0.391	0.445	12.910	0	
1,2-DIPHENYLTETRAZINE	2.611	1.061	-33.540		
4-BROMOPHENYL PHENYL ETHER	0.170	0.195	9.110		
HEXACHLOROBENZENE	0.190	0.237	17.730		
PENTACHLOROPHENOL	0.090	0.110	26.720	0	
PHENANTHRENE	1.014	1.090	7.930		
ANTHRACENE	0.947	0.940	2.190		
21-N-BUTYL PHTHALATE	1.077	1.364	-8.140		
FLUORANTHRENE	1.030	1.013	-4.340	0	
PYRENE	1.049	1.715	-7.510		
BENZILANINE	0.000	0.000	0.000		00

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

SD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an 0 -

NPCC - System Performance Check Compounds (these compounds flagged with 00

025658

000000

31

Calibration Check Report - Semi-volatile NM Compounds

Page 2

No. _____
 Instrument Identifier 00A 015
 Standard File 0004017A15
 Minimum SD for CCC is 20.00

Contractor CompChem
 Minimum RF for SPCC is 0.950

Contract No. 68-01-6762
 Calibration Date 01/07/04
 Date 01/31/04 Time 14:31

Compound	Avg RF	RF	SD	CCC	SPCC
BUTYL BENZYL PHTHALATE	1.107	0.964	-13.000		
BENZID (A) ANTHRACENE	1.420	1.405	4.470		
CHRYSENE	1.199	1.301	8.160		
3,3'-DICHLOROBENZIDINE	0.016	0.000	-200.000		
BZD (2-ETHYLBENZYL) PHTHALATE	1.493	1.365	-8.930		
DI-4-OCTYL PHTHALATE	2.302	2.395	-7.310		
3,6-BENZOFLOANTHRENE	1.114	1.176	5.410		
BENZID (K) FLUORANTHENE	0.975	0.930	-4.720		
BENZID (A) PYRENE	0.990	0.993	-0.300		
BENZID (1,2,3-CD) PYRENE	0.571	0.970	32.330		
BENZID (A,H) ANTHRACENE	0.705	0.814	14.330		
BENZID (B,K) PERYLENE	0.001	0.345	-67.430		
ACETYL	1.176	0.997	-16.810		
BENZIDIC ACID	0.200	0.200	0.000		
BENZYL ALCOHOL	0.350	0.400	-31.570		
4-CHLOROBENZYL	0.140	0.156	-2.070		
BENZIDOPURAN	1.637	1.637	-1.210		
2-METHYLBENZYL	0.307	0.345	11.630		
2-CHLOR	0.004	0.670	-17.000		
ACID	0.001	0.762	-14.400		
2-NITROBENZYL	0.041	0.018	-77.960		
3-NITROBENZYL	0.429	0.341	-22.050		
4-NITROBENZYL	0.070	0.017	-121.630		
2,4,5-TRICHLOROPHENOL	0.150	0.176	13.750		

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

SD - Percent Difference

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

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

0000189
025689

31

Calibration Check Report - Semi-volatile NPL Compounds

Page 1

Instrument Identifier 00A 015
 Standard File 00A0151C13
 Revision 10 for CCC is 20.00

Contractor CompChem
 Minimum RF for SPCC is 0.050

Contract No. 68-01-6762
 Calibration Date 01/07/04
 Date 01/31/04 Time 04:40

Compound	Avg RF	RF	SD	CCC	SPCC
N-NITROSDIETHYLAMINE	0.734	0.404	-41.050		
BIS (2-CHLOROETHYL) ETHER	1.215	0.972	-22.220		
2-CHLOROPHENOL	0.831	0.767	-8.010		
PHENOL	1.324	1.073	-20.940	0	
1,3-DICHLOROBENZENE	0.872	0.804	-1.590		
1,4-DICHLOROBENZENE	0.947	0.731	-1.700	0	
1,2-DICHLOROBENZENE	0.840	0.823	-1.000		
BIS (2-CHLOROISOPROPYL) ETHER	0.332	0.270	-20.390		
HEXACHLOROBUTADIENE	0.401	0.410	2.210		
N-NITROSDI-N-PROPYLAMINE	0.168	0.134	-7.400		00
DIETHYLENE	0.443	0.371	-16.060		
ISOPHORENE	0.954	0.879	-3.730		
2-NITROPHENOL	0.183	0.207	12.300	0	
2,4-DIETHYLPHENOL	0.331	0.344	-2.010		
BIS (2-CHLOROETHYL) METHANE	0.407	0.323	-10.000		
2,4-DICHLOROPHENOL	0.250	0.209	11.330	0	
1,2,4-TRICHLOROBENZENE	0.247	0.343	23.490		
ISOPHTHALENE	1.109	1.141	-4.120		
CHLOROBIPHENYLENE	0.144	0.104	23.630	0	
1,3-DI-N-CRESOL	0.452	0.441	-2.440	0	
HEXACHLOROCYCLOPENTADIENE	0.072	0.073	3.200		00
2,4,6-TRICHLOROPHENOL	0.540	0.200	-80.770	0	
2-CHLORONAPHTHALENE	1.126	1.130	2.000		
ACENAPHTHYLENE	1.015	1.342	27.740		
DIMETHYL PHTHALATE	1.334	1.303	3.750		
2,6-DINITROTOLUENE	0.420	0.293	-34.770		
ACENAPHTHENE	1.172	1.004	-7.610	0	
2,4-DINITROPHENOL	0.042	0.049	40.640		00
2,4-DINITROTOLUENE	0.409	0.430	8.000		
4-NITROPHENOL	0.133	0.073	-57.560		00
FLUORENE	1.203	1.244	-3.000		
4-CHLOROPHENYL PHENYL ETHER	0.449	0.477	10.140		
DIETHYL PHTHALATE	1.704	1.379	-7.610		
4,6-DINITRO-2-CRESOL	0.000	0.142	23.050		
N-NITROSDIPHENYLAMINE	0.371	0.620	44.310	0	
1,2-DIPHENYLHYDRAZINE	2.011	1.004	-32.240		
4-BROMOPHENYL PHENYL ETHER	0.170	0.104	4.370		
HEXACHLOROBENZENE	0.190	0.231	13.300		
PENTACHLOROPHENOL	0.070	0.104	14.430	0	
PHENANTHRENE	1.014	1.430	2.330		
ANTHRACENE	0.947	0.994	4.040		
DI-N-BUTYL PHTHALATE	1.077	1.374	-4.370		
FLUORANTHENE	1.050	1.123	3.760	0	
PYRENE	1.049	1.560	-16.950		
PERYLENE	0.000	0.000	0.000		00

Avg RF - Average Response Factor from initial calibration

RF - Response Factor from daily standard file

SD - Percent Difference

CCC - Calibration Check Compounds (these compounds flagged with an c)

SPCC - System Performance Check Compounds (these compounds flagged with an s)

603150
025660

31

Calibration Check Report - Semi-volatile Vol. Compounds

Page 2

Instrument No. _____ Contractor _____ Comp/Chem _____ Contract No. 68-01-6762
 Instrument Identifier 00A 015 Calibration Date 01/09/04
 Standard File 0000013453 Data 01/31/04 Time 04:40
 Minimum SD for CCC is 20.00 Minimum RF for BPCC is 0.050

Compound	Avg RF	RF	SD	CCC	BPCC
BUTYL BENZYL PHTHALATE	1.107	0.925	-17.910		
BENZO (A) ANTHRACENE	1.420	1.324	-6.990		
CHRYSENE	1.199	1.294	7.770		
2,3-DICHLOROBENZIDINE	0.016	0.000	-200.000		
BIS (2-ETHYLBENZYL) PHTHALATE	1.093	1.304	-13.310		
DI-N-BUTYL PHTHALATE	2.502	2.251	-13.690		
2,4-DIBENZOFLUMANTHENE	1.114	1.209	8.170		
BENZO (K) FLUORANTHENE	0.975	0.900	-7.110		
BENZO (A) PYRENE	0.990	0.939	-6.090		
BENZEN (1,2,3-CD) PYRENE	0.571	0.757	20.010		
DIBENZO (A,H) ANTHRACENE	0.705	0.711	0.040		
BENZO (BH) PERYLENE	0.001	0.750	-16.040		
QUINOLINE	1.194	0.484	-04.420		
BENZOID ACID	0.200	0.103	-0.070		
BENZYL ALCOHOL	0.550	0.451	-19.700		
4-CHLORQUINOLINE	0.140	0.127	-9.730		
2-CHLOROPYRROL	1.457	1.001	-2.430		
2-METHYLBENZOPHTHALENE	0.307	0.340	12.310		
THIOL	0.004	0.001	-16.540		
THIOL	0.001	0.765	-14.090		
2-NITROANILINE	0.041	0.013	-103.700		
3-NITROANILINE	0.429	0.304	-11.070		
4-NITROANILINE	0.070	0.047	-39.310		
2,4,5-TRICHLOROPHENOL	0.150	0.107	21.930		

Avg RF - Average Response Factor from initial calibration
 RF - Response Factor from daily standard file
 SD - Percent Difference
 CCC - Calibration Check Compounds (these compounds flagged with an S)
 BPCC - System Performance Check Compounds (these compounds flagged with an S)

008351

025001

Initial Calibration Data - Semi-volatile NSL Compounds

Page 1

Case No. _____

Contractor CompuChemContract No. 68-01-6262Sample Identifier DWA 915

Calibration Date - 01/09/84

Minimum Avg RRT is 0.00 Maximum Avg RRT is 1.20

Minimum Avg RF for SPEC is 0.050

Compound	Avg RRT	RF (20)	RF (100)	RF (200)	Avg RF	SPEC
N-NITROSODIMETHYLAMINE	0.343	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	1.038	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	0.332	0.328	0.316	0.332	
HEXACHLOROETHANE	1.092	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	0.935	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	0.339	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-NITROPHENOL	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	1.085	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	0.764	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	1.195	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	0.153	
FLUORENE	1.067	1.319	1.276	1.254	1.283	
4-CHLOROPHENYL PHENYL ETHER	1.067	0.459	0.452	0.433	0.448	
DIETHYL PHTHALATE	1.059	1.723	1.708	1.681	1.704	
4,6-DINITRO-O-CRESOL	1.080	0.053	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	1.013	
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	
IODINE	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

SPEC - System Performance Check Compounds (those compounds flagged with an e)

003852

025662

31

Initial Calibration Data - Semivolatile HSL Compounds

Page 2

Case No. _____

Contractor CompuChemContract No. 62-61-6742Sample Identifier DNA 815

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	
BENZOL (A) ANTHRACENE	0.978	1.408	1.355	1.497	1.420	
CHRYSENE	1.003	1.361	1.093	1.144	1.199	
3,3'-BICHLOROBENZIDINE	0.665	0.000	0.017	0.031	0.016	
BIS (2-ETHYLBENYL) 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	
BENZOL (K) FLUORANTHENE	0.958	1.025	0.842	1.059	0.975	
BENZOL (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	
DIBENZOL (A,H) ANTHRACENE	1.252	0.720	0.525	0.670	0.705	
BENZOL (GH) PERYLENE	1.316	0.976	0.640	1.027	0.881	
ANILINE	0.952	1.309	1.083	1.157	1.196	
BENZOIC ACID	0.974	0.241	0.204	0.154	0.200	
BENZYL ALCOHOL	1.030	0.520	0.565	0.561	0.550	
4-CHLOROBENZYL	1.016	0.041	0.136	0.244	0.140	
DIBENZOFURAN	1.024	1.700	1.646	1.626	1.657	
THYLNAPHTHALENE	1.113	0.311	0.306	0.303	0.307	
BENZOL	1.052	0.872	0.795	0.744	0.804	
P-CRESOL	1.079	0.917	0.881	0.851	0.881	
2-NITROANILINE	0.995	0.014	0.031	0.075	0.041	
3-NITROANILINE	0.945	0.346	0.461	0.488	0.429	
4-NITROANILINE	1.074	0.116	0.034	0.059	0.070	
2,4,5-TRICHLOROPHENOL	1.166	0.158	0.153	0.140	0.150	

Avg RET - 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 *)

003353

31

025063

G. Detection Limit Study

The detection limits are provided for those compounds on the HSL list for each fraction. These detection limits (DLs) were determined two ways: 1) the 3-sigma DL was derived from the analysis of low-level standards in triplicate; 3 times the standard deviation of these analyses equals the 3-sigma limit to be reported according to the contract. This in effect represents an "instrument detection limit." 2) To account for varying sensitivities, and different matrixes processed using different procedures, method detection limits were calculated, using the assumptions of 100% recoveries, area counts on GC/MS of amounts to provide acceptable spectra according to contract criteria, and back-calculation of on-column amounts to sample amounts. Amounts of sample extracted, volumes of extracts, amounts injected, all were taken into account in these calculations. The detection limits reported on the EPA's Organic Analysis Data Sheets are these latter, method, detection limits.

G

000001
025664

DETECTION LIMIT SUMMARY FOR
VOA OF HAZARDOUS SUBSTANCE LIST COMPOUNDS

Compound I.D.	Mead CompuChem®			
	Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation ng on-column
Bromochloromethane (IS)				
Chloroethane	5	2.5	5	1
Vinyl Chloride	5	2.5	5	1
Chloroethane	5	2.5	5	1
Bromomethane	5	2.5	5	2
Acrolein	100	50	100	48
Acrylonitrile	100	50	100	36
Methylene Chloride	5	2.5	5	2
Trichlorofluoromethane	5	2.5	5	1
1,1-Dichloroethylene	5	2.5	5	2
1,1-Dichloroethane	5	2.5	5	3
1,2-trans-Dichloroethylene	5	2.5	5	4
Chloroform	5	2.5	5	3
1,2-Dichloroethane	5	2.5	5	4
1,1,1-Trichloroethane	5	2.5	5	2
Carbon tetrachloride	5	2.5	5	2
Bromodichloromethane	5	2.5	5	3
1,4-Dichlorobutane (IS)				
1,2-Dichloropropane	5	2.5	5	4
trans-1,3-Dichloropropylene	5	2.5	5	1
Trichloroethylene	5	2.5	5	2
Benzene	5	2.5	5	4
Cis-1,3-Dichloropropene	10	5.0	10	2
1,1,2-Trichloroethane	5	2.5	5	11
1,2-Dibromochloromethane	5	2.5	5	3
Bromoform	5	2.5	5	2
1,1,2,2-tetrachloroethylene	5	2.5	5	1
1,1,2,2-tetrachloroethane	5	2.5	5	1
Toluene	5	2.5	5	1
Chlorobenzene	5	2.5	5	1
Ethylbenzene	5	2.5	5	1
2-Chloroethyl vinyl ether	5	2.5	5	1
44-1,2 Dichloroethane (Surr.)				
410- Benzene (Int. Std.)				
48- Toluene (Surr.)				
Acetone	100	50	100	19
2-Butanone	200	100	200	8
4-Methyl-2-Pentanone	100	50	100	30
2-Hexanone	100	50	100	13
Carbon disulfide	10	5	10	2
Vinyl acetate	10	5	10	5
Styrene	5	2.5	5	2
O-Xylene	5	2.5	5	2

*Estimated MDL

*3-Sigma DL

007775

025665

DETECTION LIMIT SUMMARY FOR
SEMIVOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

Compound I.D.	Mead CompuChem*			
	Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation** ng on-column
2,4-DINITROTOLUENE	40	800	20	8
2-NITROANILINE	200	4000	100	19
3-NITROANILINE	200	4000	100	9
DIBENZOFURAN	20	400	10	3
4-NITROANILINE	200	4000	100	5
2,4,5-TRICHLOROPHENOL	200	4000	100	5
*10-PHENANTHRENE (IS)				
ACENAPHTHENE	20	400	10	4
2,4-DINITROPHENOL	100	2000	50	7
4-NITROPHENOL	100	4000	100	11
FLUORENE	20	400	10	4
4-CHLOROPHENYL PHENYL ETHER	20	400	10	5
DIETHYLPHTHALATE	20	400	10	4
4,6-DINITRO-O-CRESOL	40	800	20	2
DIPHENYLAMINE (N-NITROSO)	20	400	10	14
4-BROMOPHENYL PHENYL ETHER	20	400	10	6
1-CHLOROBENZENE	20	400	10	9
PHENANTHRENE	20	400	10	5
ANTHRACENE	20	400	10	5
FLUORANTHENE	20	400	10	9
PYRENE	20	400	10	6
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	40	800	20	3
DI-N-BUTYLPHTHALATE	20	400	10	13
PENTACHLOROPHENOL	40	800	20	10
*12-CHRYSENE (IS)				
BENZO(A)ANTHRACENE	20	400	10	10
CHRYSENE	20	400	10	8
3,3'-DICHLOROBENZIDINE	40	800	20	20
BUTYLBENZYLPHthalATE	20	400	10	4
BIS(2-ETHYLHEXYL)PHTHALATE	20	400	10	16
DI-N-OCYLPHTHALATE	20	400	10	6
BENZIDINE	80	1600	40	>20
BENZO(A)PYRENE	40	800	20	9
INDENO(1,2,3-c,d)PYRENE	40	800	20	10
DIBENZO(A,H)ANTHRACENE	40	800	20	8
BENZO(B,H,I)PERYLENE	40	800	20	8
BENZO(B)FLUORANTHENE				7
BENZO(K)FLUORANTHENE				>20

*Estimated MDL

**3-Sigma CL

025663

800 450

DETECTION LIMIT SUMMARY FOR
SEMIVOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

Compound I.D.	Mead CompuChem®			3 x Standard Deviation** ng on-column
	Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	
o3-PHENOL (IS)	20	400	10	
N-NITROSODIMETHYLAMINE	20	400	10	3
PHENOL	20	400	10	4
ANILINE	20	400	10	10
BIS(2-CHLOROETHYL)ETHER	20	400	10	6
2-CHLOROPHENOL	20	400	10	4
1,3-DICHLOROBENZENE	20	400	10	5
1,4-DICHLOROBENZENE	20	400	10	4
1,2-DICHLOROBENZENE	20	400	10	4
BENZYL ALCOHOL	40	800	20	4
BIS(2-CHLOROISOPROPYL)ETHER	40	800	20	8
2-METHYLPHENOL	20	400	10	3
HEXACHLORETHANE	20	400	10	4
4-METHYLPHENOL	20	400	10	3
2-FLUOROPHENOL (Surr.)				
PENTAFLUOROPHENOL (Surr.)				
o5-PHENOL (Surr.)				
o5-NITROBENZENE (Surr.)				
DECAFLUOROBIPHENYL (Surr.)				
2-FLUORODANILINE (Surr.)				
2-FLUOROBIPHENYL (Surr.)				
o8- NAPHTHALENE (IS)				
N-NITROSO-DI-N-PROPYLAMINE	40	800	20	8
NITROBENZENE	20	400	10	4
ISOPHORONE	20	400	10	3
2-NITROPHENOL	40	800	20	2
2,4-DIMETHYLPHENOL	20	400	10	2
BIS(2-CHLOROETHOXY)METHANE	40	800	20	6
2,4-DICHLOROPHENOL	20	400	10	5
1,2,4-TRICHLOROBENZENE	20	400	10	5
4-CHLORDANILINE	100	2000	50	27
BENZOIC ACID	200	4000	100	10
HEXACHLOROBUTADIENE	20	400	10	10
P-CHLORO-M-CRESOL	40	800	20	4
2-METHYLNAPHTHALENE	40	800	20	3
HEXACHLOROCYCLOPENTADIENE	20	400	10	7
2,4,6-TRICHLOROPHENOL	20	400	10	10
2-CHLORONAPHTHALENE	20	400	10	4
ACENAPHTHYLENE	20	400	10	3
DIMETHYLPHTHALATE	20	400	10	6
NAPHTHALENE	20	400	10	5
2,6-DINITROTOLUENE	40	800	20	4

*Estimated MDL

**3-Sigma DL

025667
000007

**DETECTION LIMIT SUMMARY FOR
PESTICIDES HAZARDOUS SUBSTANCE LIST COMPOUNDS**

Compound I.D.	Mead CompuChem®			3 x Standard Deviation** ng on-column
	Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	
ALPHA BHC	0.1	4.0	0.01	0.0019
BETA BHC	0.1	4.0	0.01	0.0030
DELTA BHC	0.1	4.0	0.01	0.0008
HEPTACHLOR EPOXIDE	0.1	4.0	0.01	0.0013
CHLORODANE	0.1	4.0	0.01	0.0008
DDE	0.1	4.0	0.01	0.0007
DDD	0.1	4.0	0.01	0.0062
DDT	0.1	4.0	0.01	0.0136
ENDOSULFAN SULFATE	0.1	4.0	0.01	0.0091
GAMMA BHC	0.1	4.0	0.01	0.0023
HEPTACHLOR	0.1	4.0	0.01	0.0027
GAMMA CHLORDANE	0.1	4.0	0.01	0.0025
ENDOSULFAN I	0.1	4.0	0.01	0.0039
ENDOSULFAN II	0.1	4.0	0.01	0.0126
ALDRIN	0.1	4.0	0.01	0.0032
DIELDRIN	0.1	4.0	0.01	0.0043
ENDRIN	0.1	4.0	0.01	0.0082
TCDD	0.002	0.08	0.002	

*Estimated MDL
**3-Sigma DL

000000