

IV. Standards Data Package**A. Initial Calibration Data:**

1. Form VI
2. Reconstructed Ion Chromatogram(s)
and Quantitation Report(s)

B. Continuing Calibration Data

1. Form VII
2. Reconstructed Ion Chromatogram(s)
and Quantitation Report(s)

C. Internal Standard Summary (Form VIII)

AR301800

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

049

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100M

Calibration Date(s): 08/03/90

08/03/90

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF20 = M080307		RRF50 = M080303			
RRF80 = M080304		RRF120= M080305		RRF160= M080306			
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol	* 2.352	1.973	2.020	2.318	2.395	2.212	9.0*
bis(2-Chloroethyl)ether	2.147	1.669	2.016	2.169	2.344	2.069	12.2
2-Chlorophenol	1.637	1.354	1.446	1.504	1.578	1.504	7.4
1,3-Dichlorobenzene	1.680	1.498	1.602	1.462	1.529	1.554	5.6
1,4-Dichlorobenzene	* 1.843	1.431	1.647	1.696	1.655	1.654	8.9*
Benzyl alcohol	1.028	0.944	0.974	1.036	1.036	1.004	4.2
1,2-Dichlorobenzene	1.679	1.399	1.570	1.525	1.555	1.546	6.5
2-Methylphenol	1.575	1.422	1.547	1.580	1.547	1.534	4.2
bis(2-Chloroisopropyl)ether	3.536	3.046	3.428	3.668	3.720	3.480	7.7
4-Methylphenol	1.598	1.481	1.585	1.582	1.541	1.557	3.1
N-Nitroso-Di-n-propylamine	# 1.404	1.266	1.327	1.463	1.490	1.390	6.7#
Hexachloroethane	0.784	0.669	0.740	0.737	0.758	0.738	5.8
Nitrobenzene	0.538	0.429	0.465	0.459	0.479	0.474	8.5
Isophorone	1.003	0.809	0.891	0.871	0.833	0.881	8.5
2-Nitrophenol	* 0.212	0.180	0.202	0.189	0.191	0.195	6.4*
2,4-Dimethylphenol	0.379	0.320	0.347	0.320	0.322	0.338	7.6
Benzoic acid		0.180	0.242	0.237	0.228	0.222	12.8
bis(2-Chloroethoxy)methane	0.646	0.558	0.627	0.607	0.592	0.606	5.6
2,4-Dichlorophenol	* 0.311	0.263	0.294	0.257	0.255	0.276	9.1*
1,2,4-Trichlorobenzene	0.334	0.262	0.293	0.273	0.270	0.286	10.1
Naphthalene	1.277	0.982	1.079	0.905	0.807	1.010	17.8
4-Chloroaniline	0.546	0.467	0.513	0.485	0.470	0.496	6.7
Hexachlorobutadiene	* 0.152	0.119	0.136	0.119	0.120	0.129	11.3*
4-Chloro-3-methylphenol	* 0.373	0.308	0.335	0.316	0.310	0.328	8.3*
2-Methylnaphthalene	0.768	0.625	0.649	0.626	0.548	0.643	12.4
Hexachlorocyclopentadiene	# 0.265	0.250	0.256	0.249	0.254	0.255	2.5#
2,4,6-Trichlorophenol	* 0.385	0.312	0.333	0.332	0.326	0.338	8.2*
2,4,5-Trichlorophenol		0.325	0.363	0.351	0.341	0.345	4.7
2-Chloronaphthalene	1.445	1.150	1.230	1.158	1.132	1.223	10.6
2-Nitroaniline		0.507	0.587	0.626	0.630	0.587	9.7
Dimethylphthalate	1.387	1.156	1.294	1.242	1.196	1.255	7.2
Acenaphthylene	2.435	1.909	1.989	1.871	1.698	1.980	13.9
2,6-Dinitrotoluene	0.334	0.280	0.325	0.310	0.307	0.311	6.6
3-Nitroaniline		0.355	0.428	0.450	0.437	0.418	10.2
Acenaphthene	* 1.426	1.133	1.215	1.158	1.112	1.209	10.5*
2,4-Dinitrophenol	#	0.133	0.176	0.171	0.170	0.163	12.2#
4-Nitrophenol	#	0.085	0.107	0.105	0.106	0.101	10.4#

FORM VI SV-1

01/89 Rev.

AR301801

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

050

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100M

Calibration Date(s): 08/03/90 08/03/90

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF20 = <u>M080307</u>		RRF50 = <u>M080303</u>			
RRF80 = <u>M080304</u>		RRF120 = <u>M080305</u>		RRF160 = <u>M080306</u>			
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Dibenzofuran	1.923	1.583	1.703	1.546	1.365	1.624	12.7
2,4-Dinitrotoluene	0.395	0.325	0.391	0.364	0.370	0.369	7.6
Diethylphthalate	1.336	1.101	1.278	1.193	1.174	1.216	7.6
4-Chlorophenyl-phenylether	0.522	0.446	0.485	0.448	0.424	0.465	8.3
Fluorene	1.454	1.118	1.204	1.132	1.041	1.190	13.3
4-Nitroaniline		0.283	0.333	0.331	0.316	0.316	7.3
4,6-Dinitro-2-methylphenol		0.112	0.147	0.142	0.143	0.136	11.9
N-Nitrosodiphenylamine (1)	* 0.779	0.565	0.696	0.700	0.653	0.679	11.5*
4-Bromophenyl-phenylether	0.221	0.171	0.206	0.212	0.205	0.203	9.4
Hexachlorobenzene	0.237	0.171	0.200	0.197	0.194	0.200	11.9
Pentachlorophenol	*	0.108	0.139	0.134	0.136	0.129	11.1*
Phenanthrene	1.520	1.043	1.217	1.148	1.084	1.202	15.8
Anthracene	1.538	1.069	1.281	1.168	1.086	1.228	15.8
Di-n-Butylphthalate	1.717	1.230	1.379	1.253	1.196	1.355	15.8
Fluoranthene	* 1.256	0.799	0.992	0.937	0.920	0.981	17.3*
Pyrene	2.377	1.814	1.647	1.374	1.291	1.701	25.4
Butylbenzylphthalate	0.981	0.852	0.909	0.867	0.885	0.899	5.6
3,3'-Dichlorobenzidine	0.292	0.244	0.303	0.335	0.360	0.307	14.4
Benzo(a)anthracene	1.283	1.085	1.172	1.082	1.076	1.140	7.8
Chrysene	1.216	1.007	1.079	1.056	1.020	1.076	7.8
bis(2-Ethylhexyl)phthalate	1.362	1.235	1.298	1.260	1.252	1.281	4.0
Di-n-Octyl phthalate	* 2.308	2.431	2.436	2.253	2.198	2.325	4.6*
Benzo(b)fluoranthene	1.219	1.148	1.163	1.164	1.077	1.154	4.4
Benzo(k)fluoranthene	1.014	0.926	0.990	1.010	0.950	0.978	3.9
Benzo(a)pyrene	* 1.033	0.943	1.074	1.055	1.025	1.026	4.9*
Indeno(1,2,3-cd)pyrene	1.069	0.959	0.431	1.168	1.158	0.957	32.0
Dibenzo(a,h)anthracene	0.873	0.747	0.942	0.928	0.943	0.887	9.4
Benzo(g,h,i)perylene	0.902	0.795	0.983	1.000	0.988	0.934	9.3
=====							
Nitrobenzene-d5	0.579	0.489	0.553	0.559	0.570	0.550	6.5
2-Fluorobiphenyl	1.535	1.287	1.368	1.205	1.134	1.306	11.9
p-Terphenyl-d14	1.184	1.022	0.945	0.809	0.765	0.945	17.9
Phenol-d5	2.415	2.008	2.151	2.205	2.247	2.205	6.7
2-Fluorophenol	1.845	1.521	1.685	1.834	1.917	1.760	9.0
2,4,6-Tribromophenol	0.144	0.114	0.135	0.128	0.125	0.129	8.7

(1) Cannot be separated from Diphenylamine

FORM VI SV-2

01/89

AR301802

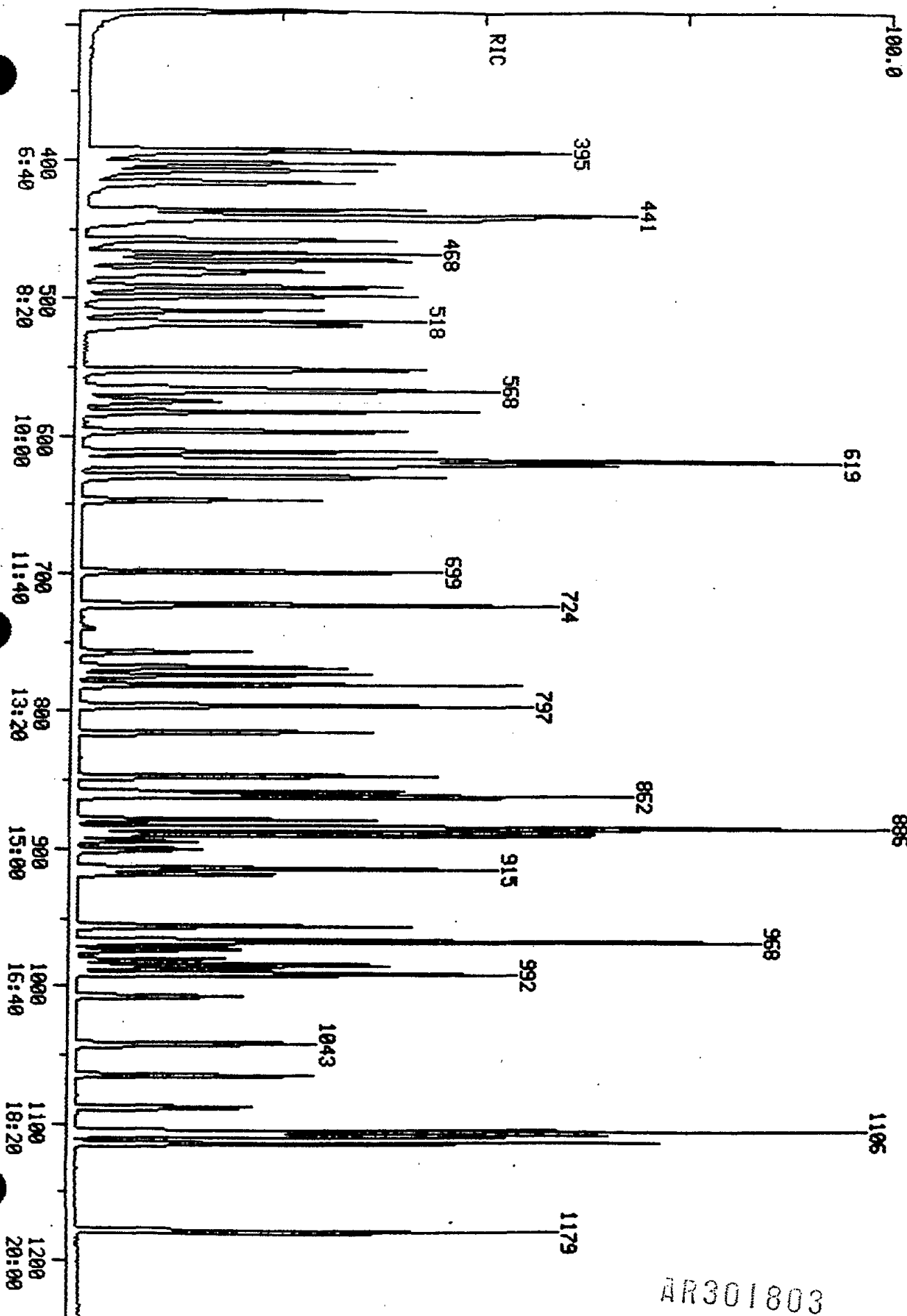
051

RIC
08/03/90 15:05:00
SAMPLE: 5STD20 20NG BNA STD
CONDOS.: INST 5100M
RANGE: G 1.2200 LABEL: N 0, 4.0

DATA: M080307 #1
CALI: M080307 #2

SCANS 290 TO 1245
OUT OF 290 TO 2200

QUAN: A 0, 1.0 J 0 BASE: U 20, 3



AR301803

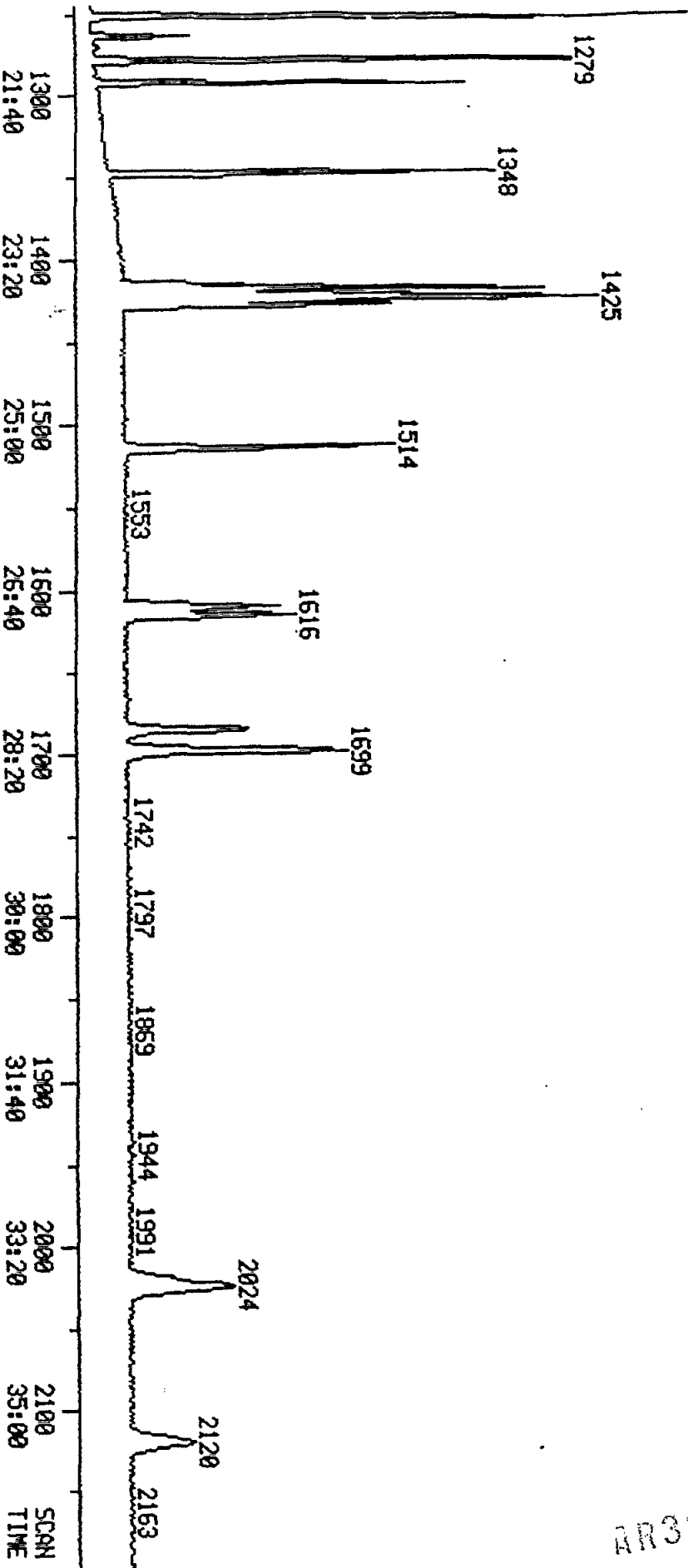
052

100.0

RIC
08/03/90 15:06:00
SAMPLE: SST020 20NG BNA STD
COND5.: INST 5100M
RANGE: G 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: M080306.001
CALI: M080307 #2
SCANS 1245 TO 2200
OUT OF 290 TO 2200

147968.

AR301804



Data: M080307.TI

08/03/90 15:06:00

Sample: SSTD20 20NG BNA STD

Conds.: INST 5100M

Formula: M080301

Submitted by: 080390

Instrument: 5100M

Analyst: SLN

Weight: 0.005

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No.	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301805

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 C525 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
1	152	441	7:21	1	1.000	A BB	40061.	40.000 NG	2.41
2	94	395	6:35	1	0.896	A BV	47104.	20.000 NG	1.20
3	93	409	6:49	1	0.927	A VB	43006.	20.000 NG	1.20
4	128	418	6:58	1	0.948	A BB	32798.	20.000 NG	1.20
5	146	437	7:17	1	0.991	A BV	33645.	20.000 NG	1.20
6	146	443	7:23	1	1.005	A VB	36921.	20.000 NG	1.20
7	108	459	7:39	1	1.041	A BB	20583.	20.000 NG	1.20
8	146	468	7:48	1	1.061	A BB	33629.	20.000 NG	1.20
9	108	474	7:54	1	1.075	A BB	31544.	20.000 NG	1.20
10	45	481	8:01	1	1.091	A BB	70819.	20.000 NG	1.20
11	108	492	8:12	1	1.116	A BB	32016.	20.000 NG	1.20
12	70	499	8:19	1	1.132	A BB	28117.	20.000 NG	1.20
13	117	510	8:30	1	1.156	A BB	15699.	20.000 NG	1.20
14	99	394	6:34	1	0.893	A BB	48367.	20.000 NG	1.20
15	112	292	4:52	1	0.662	A BB	36956.	20.000 NG	1.20
16	136	619	10:19	16	1.000	A BB	154870.	40.000 NG	2.41
17	77	521	8:41	16	0.842	A BB	41697.	20.000 NG	1.20
18	82	552	9:12	16	0.892	A BB	77667.	20.000 NG	1.20
19	139	566	9:26	16	0.914	A BB	16379.	20.000 NG	1.20
20	107	568	9:28	16	0.918	A BB	29377.	20.000 NG	1.20
21	122	576	9:36	16	0.931	A VB	16267.	20.000 NG	1.20
22	93	583	9:43	16	0.942	A BB	50016.	20.000 NG	1.20
23	162	597	9:57	16	0.964	A BB	24050.	20.000 NG	1.20
24	180	612	10:12	16	0.989	A BB	25898.	20.000 NG	1.20
25	128	622	10:22	16	1.005	A BB	98909.	20.000 NG	1.20
26	127	630	10:30	16	1.018	A BB	42243.	20.000 NG	1.20
27	225	647	10:47	16	1.045	A BB	11760.	20.000 NG	1.20
28	107	699	11:39	16	1.129	A BB	28915.	20.000 NG	1.20
29	142	724	12:04	16	1.170	A BB	59432.	20.000 NG	1.20
30	82	518	8:38	16	0.837	A BB	44854.	20.000 NG	1.20
31	164	886	14:46	31	1.000	A BB	72682.	40.000 NG	2.41
32	237	758	12:38	31	0.856	A BB	9627.	20.000 NG	1.20
33	196	769	12:49	31	0.868	A BV	13999.	20.000 NG	1.20
34	196	774	12:54	31	0.874	A VB	13771.	20.000 NG	1.20
35	162	797	13:17	31	0.900	A BB	52513.	20.000 NG	1.20
36	65	816	13:36	31	0.921	A BB	21232.	20.000 NG	1.20
37	163	848	14:08	31	0.957	A BB	50388.	20.000 NG	1.20
38	152	862	14:22	31	0.973	A BB	88477.	20.000 NG	1.20
39	138	879	14:39	31	0.992	A BB	15766.	20.000 NG	1.20
40	153	890	14:50	31	1.005	A BB	51840.	20.000 NG	1.20
41	184	895	14:55	31	1.010	A BB	5905.	20.000 NG	1.20
42	109	901	15:01	31	1.017	A BB	3679.	20.000 NG	1.20
43	168	915	15:15	31	1.033	A BB	69882.	20.000 NG	1.20
44	165	918	15:18	31	1.036	A BB	14369.	20.000 NG	1.20
45	165	859	14:19	31	0.970	A BB	12150.	20.000 NG	1.20
46	149	956	15:56	31	1.079	A BB	48343.	20.000 NG	1.20
47	204	967	16:07	31	1.091	A BB	18985.	20.000 NG	1.20
48	166	968	16:08	31	1.093	A BB	52839.	20.000 NG	1.20
49	138	973	16:13	31	1.098	A BB	12682.	20.000 NG	1.20
50	172	781	13:01	31	0.881	A BB	55774.	20.000 NG	1.20

AR301806

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:35	1.00	0.896	1.00	20.00	20.00	2.352	2.352	1.00
3	6:49	1.00	0.927	1.00	20.00	20.00	2.147	2.147	1.00
4	6:58	1.00	0.948	1.00	20.00	20.00	1.637	1.637	1.00
5	7:17	1.00	0.991	1.00	20.00	20.00	1.680	1.680	1.00
6	7:23	1.00	1.005	1.00	20.00	20.00	1.843	1.843	1.00
7	7:39	1.00	1.041	1.00	20.00	20.00	1.028	1.028	1.00
8	7:48	1.00	1.061	1.00	20.00	20.00	1.679	1.679	1.00
9	7:54	1.00	1.075	1.00	20.00	20.00	1.575	1.575	1.00
10	8:01	1.00	1.091	1.00	20.00	20.00	3.536	3.536	1.00
11	8:12	1.00	1.116	1.00	20.00	20.00	1.598	1.598	1.00
12	8:19	1.00	1.132	1.00	20.00	20.00	1.404	1.404	1.00
13	8:30	1.00	1.156	1.00	20.00	20.00	0.784	0.784	1.00
14	6:34	1.00	0.893	1.00	20.00	20.00	2.415	2.415	1.00
15	4:52	1.00	0.662	1.00	20.00	20.00	1.845	1.845	1.00
16	10:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:41	1.00	0.842	1.00	20.00	20.00	0.538	0.538	1.00
18	9:12	1.00	0.892	1.00	20.00	20.00	1.003	1.003	1.00
19	9:26	1.00	0.914	1.00	20.00	20.00	0.212	0.212	1.00
20	9:28	1.00	0.918	1.00	20.00	20.00	0.379	0.379	1.00
21	9:36	1.00	0.931	1.00	20.00	20.00	0.210	0.210	1.00
22	9:43	1.00	0.942	1.00	20.00	20.00	0.646	0.646	1.00
23	9:57	1.00	0.964	1.00	20.00	20.00	0.311	0.311	1.00
24	10:12	1.00	0.989	1.00	20.00	20.00	0.334	0.334	1.00
25	10:22	1.00	1.005	1.00	20.00	20.00	1.277	1.277	1.00
26	10:30	1.00	1.018	1.00	20.00	20.00	0.546	0.546	1.00
27	10:47	1.00	1.045	1.00	20.00	20.00	0.152	0.152	1.00
28	11:39	1.00	1.129	1.00	20.00	20.00	0.373	0.373	1.00
29	12:04	1.00	1.170	1.00	20.00	20.00	0.768	0.768	1.00
30	8:38	1.00	0.837	1.00	20.00	20.00	0.579	0.579	1.00
31	14:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:38	1.00	0.856	1.00	20.00	20.00	0.265	0.265	1.00
33	12:49	1.00	0.868	1.00	20.00	20.00	0.385	0.385	1.00
34	12:54	1.00	0.874	1.00	20.00	20.00	0.379	0.379	1.00
35	13:17	1.00	0.900	1.00	20.00	20.00	1.445	1.445	1.00
36	13:36	1.00	0.921	1.00	20.00	20.00	0.584	0.584	1.00
37	14:08	1.00	0.957	1.00	20.00	20.00	1.387	1.387	1.00
38	14:22	1.00	0.973	1.00	20.00	20.00	2.435	2.435	1.00
39	14:39	1.00	0.992	1.00	20.00	20.00	0.434	0.434	1.00
40	14:50	1.00	1.005	1.00	20.00	20.00	1.426	1.426	1.00
41	14:55	1.00	1.010	1.00	20.00	20.00	0.162	0.162	1.00
42	15:01	1.00	1.017	1.00	20.00	20.00	0.101	0.101	1.00
43	15:15	1.00	1.033	1.00	20.00	20.00	1.923	1.923	1.00
44	15:18	1.00	1.036	1.00	20.00	20.00	0.395	0.395	1.00
45	14:19	1.00	0.970	1.00	20.00	20.00	0.334	0.334	1.00
46	15:56	1.00	1.079	1.00	20.00	20.00	1.336	1.336	1.00
47	16:07	1.00	1.091	1.00	20.00	20.00	0.522	0.522	1.00
48	16:08	1.00	1.093	1.00	20.00	20.00	1.454	1.454	1.00
49	16:13	1.00	1.098	1.00	20.00	20.00	0.349	0.349	1.00
50	13:01	1.00	0.881	1.00	20.00	20.00	1.535	1.535	1.00

Quantitation Report File: M080307

056

Data: M080307.TI

08/03/90 15:06:00

Sample: SSTD20 ZONG BNA STD

Conds.: INST 5100M

Formula: M080301

Instrument: 5100M

Weight: 0.005

Submitted by: 080390

Analyst: SLN

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHEYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	1008	16:48	31	1.138	A BB	5216.	20.000 NG	1.20
52	188	1106	18:26	52	1.000	A BB	89777.	40.000 NG	2.41
53	198	981	16:21	52	0.887	A BB	7092.	20.000 NG	1.20
54	169	986	16:26	52	0.892	A BB	34970.	20.000 NG	1.20
55	248	1043	17:23	52	0.943	A BB	9905.	20.000 NG	1.20
56	284	1065	17:45	52	0.963	A BB	10633.	20.000 NG	1.20
57	266	1088	18:08	52	0.984	A BB	6823.	20.000 NG	1.20
58	178	1109	18:29	52	1.003	A BV	68226.	20.000 NG	1.20
59	178	1115	18:35	52	1.008	A VB	69053.	20.000 NG	1.20
60	149	1179	19:39	52	1.066	A BB	77092.	20.000 NG	1.20
61	202	1252	20:52	52	1.132	A BB	56365.	20.000 NG	1.20
62	240	1425	23:45	62	1.000	A BB	47745.	40.000 NG	2.41
63	202	1278	21:18	62	0.897	A BB	56739.	20.000 NG	1.20
64	149	1348	22:28	62	0.946	A BB	23418.	20.000 NG	1.20
65	252	1415	23:35	62	0.993	A BB	6970.	20.000 NG	1.20
66	228	1422	23:42	62	0.998	A BV	30635.	20.000 NG	1.20

AR301808

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	149	1419	23:39	62	0.996	A BB	32521.	20.000 NG	1.20
68	228	1428	23:48	62	1.002	A VB	29020.	20.000 NG	1.20
69	244	1293	21:33	62	0.907	A BB	28277.	20.000 NG	1.20
70	264	1699	28:19	70	1.000	A BB	39621.	40.000 NG	2.41
71	149	1514	25:14	70	0.891	A BB	45730.	20.000 NG	1.20
72	252	1610	26:50	70	0.948	A BV	24152.	20.000 NG	1.20
73	252	1616	26:56	70	0.951	A VB	20087.	20.000 NG	1.20
74	252	1685	28:05	70	0.992	A BB	20462.	20.000 NG	1.20
75	276	2022	33:42	70	1.190	A BB	21174.	20.000 NG	1.20
76	278	2026	33:46	70	1.192	A BB	17297.	20.000 NG	1.20
77	276	2120	35:20	70	1.248	A BB	17865.	20.000 NG	1.20

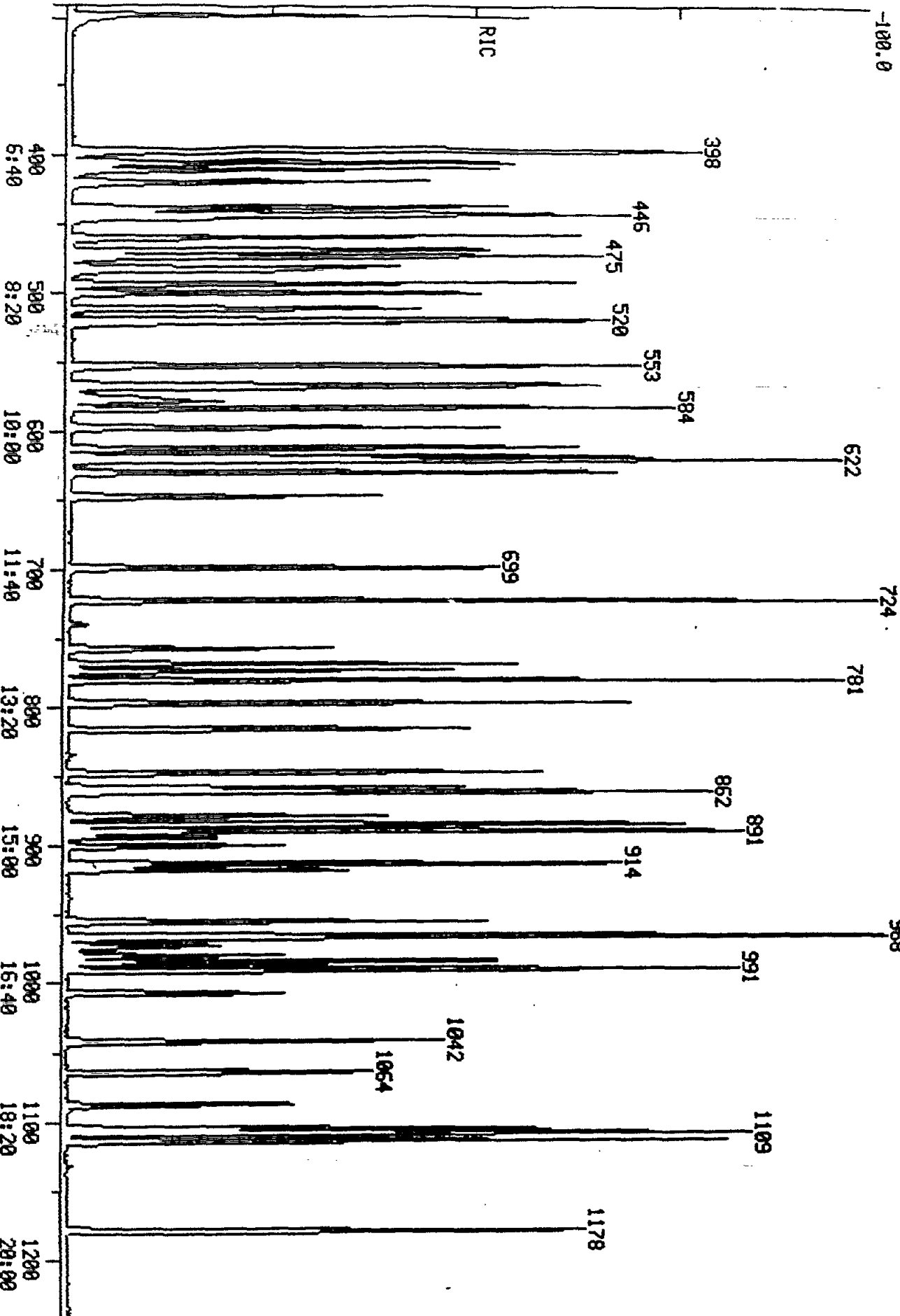
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:48	1.00	1.138	1.00	20.00	20.00	0.144	0.144	1.00
52	18:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	16:21	1.00	0.887	1.00	20.00	20.00	0.158	0.158	1.00
54	16:26	1.00	0.892	1.00	20.00	20.00	0.779	0.779	1.00
55	17:23	1.00	0.943	1.00	20.00	20.00	0.221	0.221	1.00
56	17:45	1.00	0.963	1.00	20.00	20.00	0.237	0.237	1.00
57	18:08	1.00	0.984	1.00	20.00	20.00	0.152	0.152	1.00
58	18:29	1.00	1.003	1.00	20.00	20.00	1.520	1.520	1.00
59	18:35	1.00	1.008	1.00	20.00	20.00	1.538	1.538	1.00
60	19:39	1.00	1.066	1.00	20.00	20.00	1.717	1.717	1.00
61	20:52	1.00	1.132	1.00	20.00	20.00	1.256	1.256	1.00
62	23:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	21:18	1.00	0.897	1.00	20.00	20.00	2.377	2.377	1.00
64	22:28	1.00	0.946	1.00	20.00	20.00	0.981	0.981	1.00
65	23:35	1.00	0.993	1.00	20.00	20.00	0.292	0.292	1.00
66	23:42	1.00	0.998	1.00	20.00	20.00	1.283	1.283	1.00
67	23:39	1.00	0.996	1.00	20.00	20.00	1.362	1.362	1.00
68	23:48	1.00	1.002	1.00	20.00	20.00	1.216	1.216	1.00
69	21:33	1.00	0.907	1.00	20.00	20.00	1.184	1.184	1.00
70	28:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	25:14	1.00	0.891	1.00	20.00	20.00	2.308	2.308	1.00
72	26:50	1.00	0.948	1.00	20.00	20.00	1.219	1.219	1.00
73	26:56	1.00	0.951	1.00	20.00	20.00	1.014	1.014	1.00
74	28:05	1.00	0.992	1.00	20.00	20.00	1.033	1.033	1.00
75	33:42	1.00	1.190	1.00	20.00	20.00	1.069	1.069	1.00
76	33:46	1.00	1.192	1.00	20.00	20.00	0.873	0.873	1.00
77	35:20	1.00	1.248	1.00	20.00	20.00	0.902	0.902	1.00

058

RIC
08/03/90 11:12:00
SAMPLE: SST050 50NG BNA STD
COND5.: INST 5100M
RANGE: C 1,2450 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

DATA: M080303 #1
CALI: M080303 #2

SCANS 290 TO 1245
OUT OF 290 TO 2200



AR301810

059

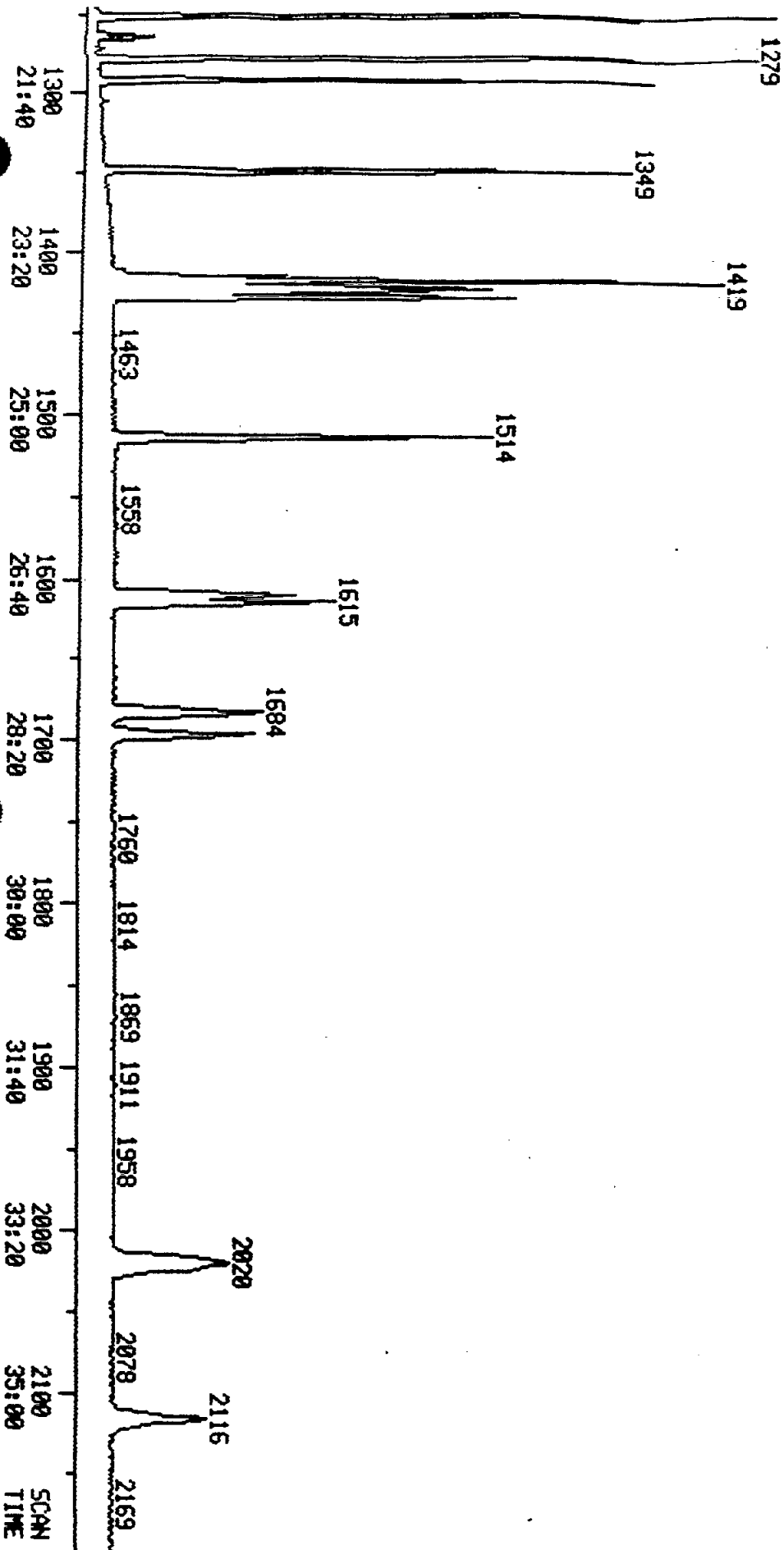
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RIC
08/03/90 11:12:00
SAMPLE: 55T050 50MG BNA STD
COMDS.: INST 5100M
RANGE: G 1,2450 LABEL: N 0, 4.0 QUN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: M080303 #1
CALI: M080303 #2

SCANS 1245 TO 2200
OUT OF 290 TO 2200

259328.



AR301811

Data: M080303.TI
08/03/90 11:12:00
Sample: SSTD50 50NG BNA STD
Conds.: INST 5100M
Formula: M080301
Submitted by: 080390

Instrument: 5100M
Analyst: SLN

Weight: 0.005
Acct. No.: 5100M

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS43 PHENOL-D3	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D3	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301812

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	444	7:24	1	1.000	A BB	44699.	40.000 NG	1.06
2	94	398	6:38	1	0.896	A BV	110238.	50.000 NG	1.32
3	93	412	6:52	1	0.928	A VV	93266.	50.000 NG	1.32
4	128	420	7:00	1	0.946	A BB	75648.	50.000 NG	1.32
5	146	439	7:19	1	0.989	A BV	83705.	50.000 NG	1.32
6	146	446	7:26	1	1.005	A VB	79983.	50.000 NG	1.32
7	108	461	7:41	1	1.038	A BV	52749.	50.000 NG	1.32
8	146	470	7:50	1	1.059	A BB	78168.	50.000 NG	1.32
9	108	475	7:55	1	1.070	A VV	79473.	50.000 NG	1.32
10	45	482	8:02	1	1.086	A BB	170172.	50.000 NG	1.32
11	108	494	8:14	1	1.113	A BB	82768.	50.000 NG	1.32
12	70	501	8:21	1	1.128	A BB	70740.	50.000 NG	1.32
13	117	512	8:32	1	1.153	A BB	37390.	50.000 NG	1.32
14	99	397	6:37	1	0.894	A BB	112174.	50.000 NG	1.32
15	112	298	4:58	1	0.671	A BB	85009.	50.000 NG	1.32
16	136	619	10:19	16	1.000	A BB	180893.	40.000 NG	1.06
17	77	522	8:42	16	0.843	A BB	96910.	50.000 NG	1.32
18	82	553	9:13	16	0.893	A BB	183036.	50.000 NG	1.32
19	139	566	9:26	16	0.914	A BB	40721.	50.000 NG	1.32
20	107	568	9:28	16	0.918	A BB	72458.	50.000 NG	1.32
21	122	579	9:39	16	0.935	A VB	40729.	50.000 NG	1.32
22	93	584	9:44	16	0.943	A BB	126119.	50.000 NG	1.32
23	162	598	9:58	16	0.966	A BB	59506.	50.000 NG	1.32
24	180	613	10:13	16	0.990	A BB	59198.	50.000 NG	1.32
25	128	622	10:22	16	1.005	A BV	221957.	50.000 NG	1.32
26	127	630	10:30	16	1.018	A BB	105594.	50.000 NG	1.32
27	225	648	10:48	16	1.047	A BB	27018.	50.000 NG	1.32
28	107	699	11:39	16	1.129	A BB	69557.	50.000 NG	1.32
29	142	724	12:04	16	1.170	A BB	141305.	50.000 NG	1.32
30	82	520	8:40	16	0.840	A BB	110570.	50.000 NG	1.32
31	164	886	14:46	31	1.000	A BB	86729.	40.000 NG	1.06
32	237	758	12:38	31	0.856	A BB	27151.	50.000 NG	1.32
33	196	769	12:49	31	0.868	A BV	33837.	50.000 NG	1.32
34	196	774	12:54	31	0.874	A VB	35265.	50.000 NG	1.32
35	162	797	13:17	31	0.900	A BB	124659.	50.000 NG	1.32
36	65	816	13:36	31	0.921	A BB	54993.	50.000 NG	1.32
37	163	848	14:08	31	0.957	A BB	125338.	50.000 NG	1.32
38	152	862	14:22	31	0.973	A BB	206910.	50.000 NG	1.32
39	138	879	14:39	31	0.992	A BB	38497.	50.000 NG	1.32
40	153	891	14:51	31	1.006	A BB	122792.	50.000 NG	1.32
41	184	894	14:54	31	1.009	A BB	14427.	50.000 NG	1.32
42	109	901	15:01	31	1.017	A BB	9231.	50.000 NG	1.32
43	168	914	15:14	31	1.032	A BB	171612.	50.000 NG	1.32
44	165	918	15:18	31	1.036	A BB	35277.	50.000 NG	1.32
45	165	859	14:19	31	0.970	A BB	30315.	50.000 NG	1.32
46	149	956	15:56	31	1.079	A BB	119392.	50.000 NG	1.32
47	204	967	16:07	31	1.091	A BB	48356.	50.000 NG	1.32
48	166	968	16:08	31	1.093	A BB	121227.	50.000 NG	1.32
49	138	974	16:14	31	1.099	A VB	30694.	50.000 NG	1.32
50	172	781	13:01	31	0.881	A BB	139545.	50.000 NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:24	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:38	1.00	0.896	1.00	50.00	50.00	1.973	1.973	1.00
3	6:52	1.00	0.928	1.00	50.00	50.00	1.669	1.669	1.00
4	7:00	1.00	0.946	1.00	50.00	50.00	1.354	1.354	1.00
5	7:19	1.00	0.989	1.00	50.00	50.00	1.498	1.498	1.00
6	7:26	1.00	1.005	1.00	50.00	50.00	1.431	1.431	1.00
7	7:41	1.00	1.038	1.00	50.00	50.00	0.944	0.944	1.00
8	7:50	1.00	1.059	1.00	50.00	50.00	1.399	1.399	1.00
9	7:55	1.00	1.070	1.00	50.00	50.00	1.422	1.422	1.00
10	8:02	1.00	1.086	1.00	50.00	50.00	3.046	3.046	1.00
11	8:14	1.00	1.113	1.00	50.00	50.00	1.481	1.481	1.00
12	8:21	1.00	1.128	1.00	50.00	50.00	1.266	1.266	1.00
13	8:32	1.00	1.153	1.00	50.00	50.00	0.669	0.669	1.00
14	6:37	1.00	0.894	1.00	50.00	50.00	2.008	2.008	1.00
15	4:58	1.00	0.671	1.00	50.00	50.00	1.521	1.521	1.00
16	10:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:42	1.00	0.843	1.00	50.00	50.00	0.429	0.429	1.00
18	9:13	1.00	0.893	1.00	50.00	50.00	0.809	0.809	1.00
19	9:26	1.00	0.914	1.00	50.00	50.00	0.180	0.180	1.00
20	9:28	1.00	0.918	1.00	50.00	50.00	0.320	0.320	1.00
21	9:39	1.00	0.935	1.00	50.00	50.00	0.180	0.180	1.00
22	9:44	1.00	0.943	1.00	50.00	50.00	0.558	0.558	1.00
23	9:58	1.00	0.966	1.00	50.00	50.00	0.263	0.263	1.00
24	10:13	1.00	0.990	1.00	50.00	50.00	0.262	0.262	1.00
25	10:22	1.00	1.005	1.00	50.00	50.00	0.982	0.982	1.00
26	10:30	1.00	1.018	1.00	50.00	50.00	0.467	0.467	1.00
27	10:48	1.00	1.047	1.00	50.00	50.00	0.119	0.119	1.00
28	11:39	1.00	1.129	1.00	50.00	50.00	0.308	0.308	1.00
29	12:04	1.00	1.170	1.00	50.00	50.00	0.625	0.625	1.00
30	8:40	1.00	0.840	1.00	50.00	50.00	0.489	0.489	1.00
31	14:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:38	1.00	0.856	1.00	50.00	50.00	0.250	0.250	1.00
33	12:49	1.00	0.868	1.00	50.00	50.00	0.312	0.312	1.00
34	12:54	1.00	0.874	1.00	50.00	50.00	0.325	0.325	1.00
35	13:17	1.00	0.900	1.00	50.00	50.00	1.150	1.150	1.00
36	13:36	1.00	0.921	1.00	50.00	50.00	0.507	0.507	1.00
37	14:08	1.00	0.957	1.00	50.00	50.00	1.156	1.156	1.00
38	14:22	1.00	0.973	1.00	50.00	50.00	1.909	1.909	1.00
39	14:39	1.00	0.992	1.00	50.00	50.00	0.355	0.355	1.00
40	14:51	1.00	1.006	1.00	50.00	50.00	1.133	1.133	1.00
41	14:54	1.00	1.009	1.00	50.00	50.00	0.133	0.133	1.00
42	15:01	1.00	1.017	1.00	50.00	50.00	0.085	0.085	1.00
43	15:14	1.00	1.032	1.00	50.00	50.00	1.583	1.583	1.00
44	15:18	1.00	1.036	1.00	50.00	50.00	0.325	0.325	1.00
45	14:19	1.00	0.970	1.00	50.00	50.00	0.280	0.280	1.00
46	15:56	1.00	1.079	1.00	50.00	50.00	1.101	1.101	1.00
47	16:07	1.00	1.091	1.00	50.00	50.00	0.446	0.446	1.00
48	16:08	1.00	1.093	1.00	50.00	50.00	1.118	1.118	1.00
49	16:14	1.00	1.099	1.00	50.00	50.00	0.283	0.283	1.00
50	13:01	1.00	0.881	1.00	50.00	50.00	1.287	1.287	1.00

062

AR301814

Data: M080303.TI

08/03/90 11:12:00

Sample: SSTD50 50NG BNA STD

Conds.: INST 5100M

Formula: M080301

Submitted by: 080390

Instrument: 5100M

Analyst: SLN

Weight: 0.005

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLEETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	1008	16:48	31	1.138	A BB	12361.	50.000 NG	1.32
52	188	1105	18:25	52	1.000	A BV	115880.	40.000 NG	1.06
53	198	981	16:21	52	0.888	A BB	16269.	50.000 NG	1.32
54	169	985	16:25	52	0.891	A BB	81866.	50.000 NG	1.32
55	248	1042	17:22	52	0.943	A BB	24744.	50.000 NG	1.32
56	284	1064	17:44	52	0.963	A BB	24822.	50.000 NG	1.32
57	266	1087	18:07	52	0.984	A BB	15583.	50.000 NG	1.32
58	178	1109	18:29	52	1.004	A BV	151109.	50.000 NG	1.32
59	178	1114	18:34	52	1.008	A VB	154808.	50.000 NG	1.32
60	149	1178	19:38	52	1.066	A BB	178106.	50.000 NG	1.32
61	202	1252	20:52	52	1.133	A BB	115752.	50.000 NG	1.32
62	240	1425	23:45	62	1.000	A BB	52209.	40.000 NG	1.06
63	202	1279	21:19	62	0.898	A BB	118406.	50.000 NG	1.32
64	149	1349	22:29	62	0.947	A BB	55582.	50.000 NG	1.32
65	252	1416	23:36	62	0.994	A BB	15909.	50.000 NG	1.32
66	228	1422	23:42	62	0.998	A BV	70785.	50.000 NG	1.32

AR301815

143

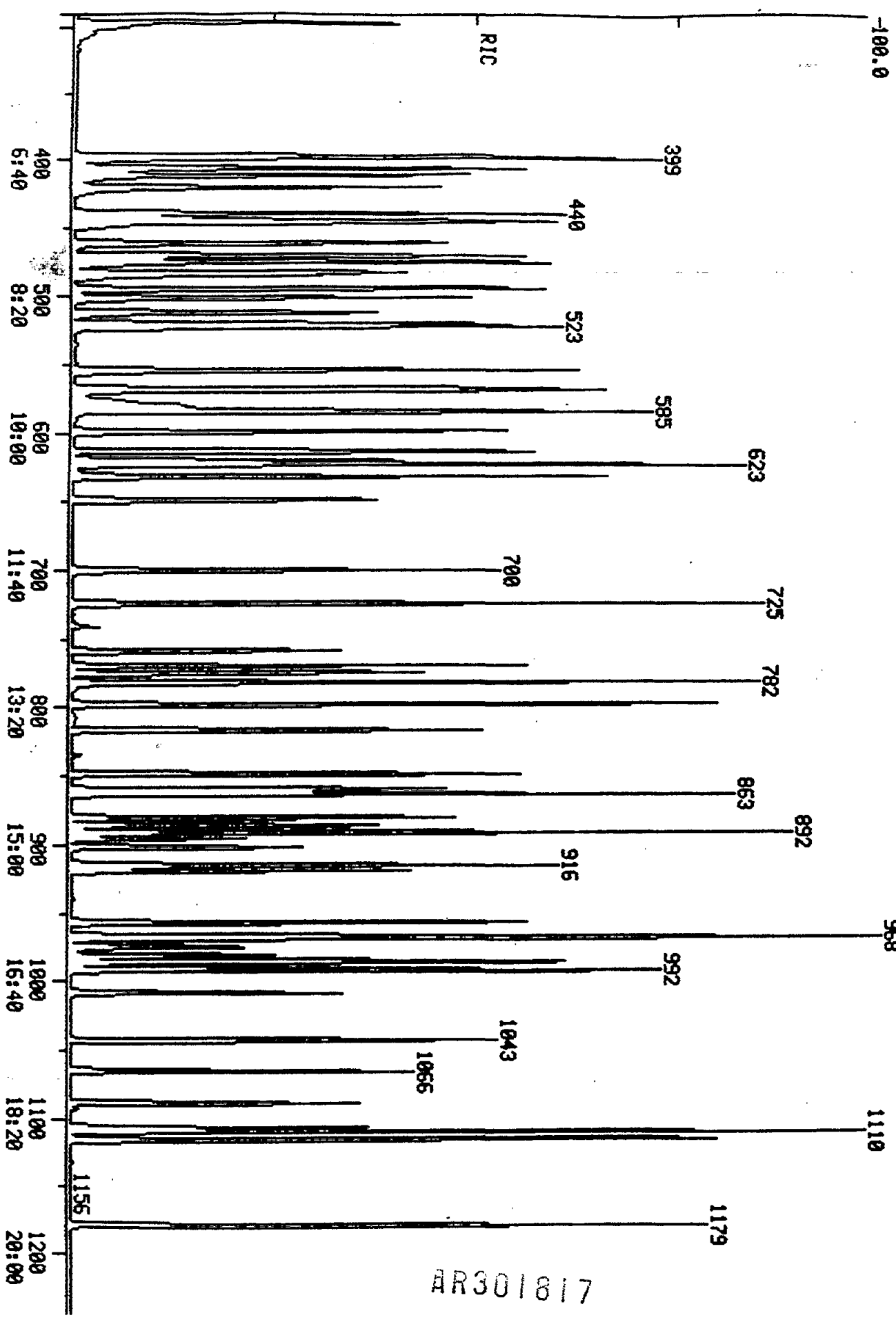
06

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
67	149	1419	23:39	62	0.996	A BV	80601.	50.000 NG	1.32
68	228	1429	23:49	62	1.003	A VB	65733.	50.000 NG	1.32
69	244	1293	21:33	62	0.907	A BB	66720.	50.000 NG	1.32
70	264	1697	28:17	70	1.000	A BB	39689.	40.000 NG	1.06
71	149	1514	25:14	70	0.892	A BV	120609.	50.000 NG	1.32
72	252	1610	26:50	70	0.949	A BV	56960.	50.000 NG	1.32
73	252	1615	26:55	70	0.952	A VB	45927.	50.000 NG	1.32
74	252	1684	28:04	70	0.992	A BB	46760.	50.000 NG	1.32
75	276	2019	33:39	70	1.190	A BB	47597.	50.000 NG	1.32
76	278	2024	33:44	70	1.193	A BB	37079.	50.000 NG	1.32
77	276	2116	35:16	70	1.247	A BB	39445.	50.000 NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:48	1.00	1.138	1.00	50.00	50.00	0.114	0.114	1.00
52	18:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	16:21	1.00	0.888	1.00	50.00	50.00	0.112	0.112	1.00
54	16:25	1.00	0.891	1.00	50.00	50.00	0.565	0.565	1.00
55	17:22	1.00	0.943	1.00	50.00	50.00	0.171	0.171	1.00
56	17:44	1.00	0.963	1.00	50.00	50.00	0.171	0.171	1.00
57	18:07	1.00	0.984	1.00	50.00	50.00	0.108	0.108	1.00
58	18:29	1.00	1.004	1.00	50.00	50.00	1.043	1.043	1.00
59	18:34	1.00	1.008	1.00	50.00	50.00	1.069	1.069	1.00
60	19:38	1.00	1.066	1.00	50.00	50.00	1.230	1.230	1.00
61	20:52	1.00	1.133	1.00	50.00	50.00	0.799	0.799	1.00
62	23:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	21:19	1.00	0.898	1.00	50.00	50.00	1.814	1.814	1.00
64	22:29	1.00	0.947	1.00	50.00	50.00	0.852	0.852	1.00
65	23:36	1.00	0.994	1.00	50.00	50.00	0.244	0.244	1.00
66	23:42	1.00	0.998	1.00	50.00	50.00	1.085	1.085	1.00
67	23:39	1.00	0.996	1.00	50.00	50.00	1.235	1.235	1.00
68	23:49	1.00	1.003	1.00	50.00	50.00	1.007	1.007	1.00
69	21:33	1.00	0.907	1.00	50.00	50.00	1.022	1.022	1.00
70	28:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	25:14	1.00	0.892	1.00	50.00	50.00	2.431	2.431	1.00
72	26:50	1.00	0.949	1.00	50.00	50.00	1.148	1.148	1.00
73	26:55	1.00	0.952	1.00	50.00	50.00	0.926	0.926	1.00
74	28:04	1.00	0.992	1.00	50.00	50.00	0.943	0.943	1.00
75	33:39	1.00	1.190	1.00	50.00	50.00	0.959	0.959	1.00
76	33:44	1.00	1.193	1.00	50.00	50.00	0.747	0.747	1.00
77	35:16	1.00	1.247	1.00	50.00	50.00	0.795	0.795	1.00

AR301816

RIC
08/03/90 12:45:00
SAMPLE: SSTDB0 80NG BNA STD
COND.: INST 5100M
RANGE: C 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: M080304 #1
CALI: M080304 #2
SCANS 290 TO 1245
OUT OF 290 TO 2200



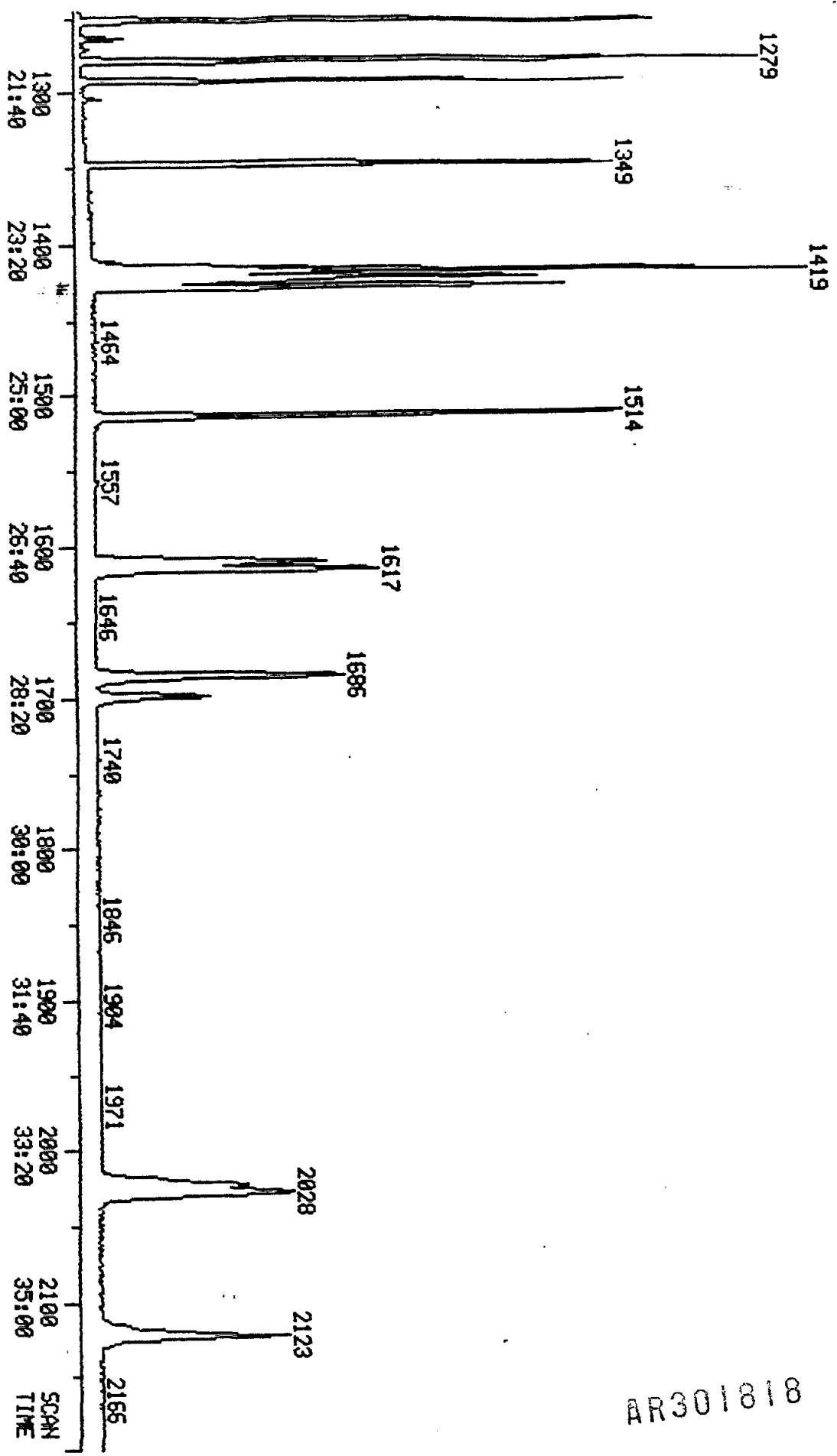
AR301817

IC
 08/03/90 12:46:00
 SAMPLE: SST080 80NG BNA STD
 CONDS.: INST 5100M
 RANGE: C 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
 100.0

DATA: M080304
 CALL: M080304 #2
 SCANS 1245 TO 2200
 OUT OF 290 TO 2200

340480.

AR301818



Quantitation Report File: M080304

Data: M080304.T1

08/03/90 12:46:00

Sample: SSTDB0 80NG BNA STD

Conds.: INST 5100M

Formula: M080301

Submitted by: 080390

Instrument: 5100M

Analyst: SLN

Weight: 0.005

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301819

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	444	7:24	1	1.000	A BB	35101.	40.000 NG	0.68
2	94	399	6:39	1	0.899	A BV	141795.	80.000 NG	1.35
3	93	412	6:52	1	0.928	A VB	141559.	80.000 NG	1.35
4	128	421	7:01	1	0.948	A BB	101493.	80.000 NG	1.35
5	146	440	7:20	1	0.991	A BV	112476.	80.000 NG	1.35
6	146	446	7:26	1	1.005	A VB	115610.	80.000 NG	1.35
7	108	462	7:42	1	1.041	A BV	68393.	80.000 NG	1.35
8	146	471	7:51	1	1.061	A BB	110251.	80.000 NG	1.35
9	108	476	7:56	1	1.072	A VV	108598.	80.000 NG	1.35
10	45	483	8:03	1	1.088	A BB	240669.	80.000 NG	1.35
11	108	495	8:15	1	1.115	A BB	111256.	80.000 NG	1.35
12	70	501	8:21	1	1.128	A BB	93138.	80.000 NG	1.35
13	117	512	8:32	1	1.153	A BB	51974.	80.000 NG	1.35
14	99	398	6:38	1	0.896	A BB	150974.	80.000 NG	1.35
15	112	297	4:57	1	0.669	A BB	118301.	80.000 NG	1.35
16	136	620	10:20	16	1.000	A BB	134501.	40.000 NG	0.68
17	77	523	8:43	16	0.844	A BB	125112.	80.000 NG	1.35
18	82	554	9:14	16	0.894	A BB	239761.	80.000 NG	1.35
19	139	567	9:27	16	0.915	A BB	54364.	80.000 NG	1.35
20	107	569	9:29	16	0.918	A BV	93455.	80.000 NG	1.35
21	122	582	9:42	16	0.939	A VB	65040.	80.000 NG	1.35
22	93	585	9:45	16	0.944	A BB	168641.	80.000 NG	1.35
23	162	599	9:59	16	0.966	A BB	79123.	80.000 NG	1.35
24	180	613	10:13	16	0.989	A BB	78873.	80.000 NG	1.35
25	128	623	10:23	16	1.005	A BV	290144.	80.000 NG	1.35
26	127	632	10:32	16	1.019	A BB	137945.	80.000 NG	1.35
27	225	648	10:48	16	1.045	A BB	36660.	80.000 NG	1.35
28	107	700	11:40	16	1.129	A BB	90146.	80.000 NG	1.35
29	142	725	12:05	16	1.169	A BB	174674.	80.000 NG	1.35
30	82	521	8:41	16	0.840	A BB	148791.	80.000 NG	1.35
31	164	886	14:46	31	1.000	A BB	64309.	40.000 NG	0.68
32	237	759	12:39	31	0.857	A BB	32900.	80.000 NG	1.35
33	196	770	12:50	31	0.869	A BV	42852.	80.000 NG	1.35
34	196	775	12:55	31	0.875	A VB	46660.	80.000 NG	1.35
35	162	798	13:18	31	0.901	A BB	158259.	80.000 NG	1.35
36	65	817	13:37	31	0.922	A BB	75547.	80.000 NG	1.35
37	163	849	14:09	31	0.958	A BB	166429.	80.000 NG	1.35
38	152	863	14:23	31	0.974	A BB	255865.	80.000 NG	1.35
39	138	881	14:41	31	0.994	A BB	55081.	80.000 NG	1.35
40	153	892	14:52	31	1.007	A BB	156332.	80.000 NG	1.35
41	184	896	14:56	31	1.011	A BB	22591.	80.000 NG	1.35
42	109	902	15:02	31	1.018	A BB	13800.	80.000 NG	1.35
43	168	915	15:15	31	1.033	A BB	219064.	80.000 NG	1.35
44	165	919	15:19	31	1.037	A BB	50235.	80.000 NG	1.35
45	165	860	14:20	31	0.971	A BB	41826.	80.000 NG	1.35
46	149	957	15:57	31	1.080	A BB	164437.	80.000 NG	1.35
47	204	967	16:07	31	1.091	A BB	62395.	80.000 NG	1.35
48	166	969	16:09	31	1.094	A BB	154824.	80.000 NG	1.35
49	138	975	16:15	31	1.100	A VB	42835.	80.000 NG	1.35
50	172	782	13:02	31	0.883	A BB	175998.	80.000 NG	1.35

AR301820

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:24	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:39	1.00	0.899	1.00	80.00	80.00	2.020	2.020	1.00
3	6:52	1.00	0.928	1.00	80.00	80.00	2.016	2.016	1.00
4	7:01	1.00	0.948	1.00	80.00	80.00	1.446	1.446	1.00
5	7:20	1.00	0.991	1.00	80.00	80.00	1.602	1.602	1.00
6	7:26	1.00	1.005	1.00	80.00	80.00	1.647	1.647	1.00
7	7:42	1.00	1.041	1.00	80.00	80.00	0.974	0.974	1.00
8	7:51	1.00	1.061	1.00	80.00	80.00	1.570	1.570	1.00
9	7:56	1.00	1.072	1.00	80.00	80.00	1.547	1.547	1.00
10	8:03	1.00	1.088	1.00	80.00	80.00	3.428	3.428	1.00
11	8:15	1.00	1.115	1.00	80.00	80.00	1.585	1.585	1.00
12	8:21	1.00	1.128	1.00	80.00	80.00	1.327	1.327	1.00
13	8:32	1.00	1.153	1.00	80.00	80.00	0.740	0.740	1.00
14	6:38	1.00	0.896	1.00	80.00	80.00	2.151	2.151	1.00
15	4:57	1.00	0.669	1.00	80.00	80.00	1.685	1.685	1.00
16	10:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:43	1.00	0.844	1.00	80.00	80.00	0.465	0.465	1.00
18	9:14	1.00	0.894	1.00	80.00	80.00	0.891	0.891	1.00
19	9:27	1.00	0.915	1.00	80.00	80.00	0.202	0.202	1.00
20	9:29	1.00	0.918	1.00	80.00	80.00	0.347	0.347	1.00
21	9:42	1.00	0.939	1.00	80.00	80.00	0.242	0.242	1.00
22	9:45	1.00	0.944	1.00	80.00	80.00	0.627	0.627	1.00
23	9:59	1.00	0.966	1.00	80.00	80.00	0.294	0.294	1.00
24	10:13	1.00	0.989	1.00	80.00	80.00	0.293	0.293	1.00
25	10:23	1.00	1.005	1.00	80.00	80.00	1.079	1.079	1.00
26	10:32	1.00	1.019	1.00	80.00	80.00	0.513	0.513	1.00
27	10:48	1.00	1.045	1.00	80.00	80.00	0.136	0.136	1.00
28	11:40	1.00	1.129	1.00	80.00	80.00	0.335	0.335	1.00
29	12:05	1.00	1.169	1.00	80.00	80.00	0.649	0.649	1.00
30	8:41	1.00	0.840	1.00	80.00	80.00	0.553	0.553	1.00
31	14:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:39	1.00	0.857	1.00	80.00	80.00	0.256	0.256	1.00
33	12:50	1.00	0.869	1.00	80.00	80.00	0.333	0.333	1.00
34	12:55	1.00	0.875	1.00	80.00	80.00	0.363	0.363	1.00
35	13:18	1.00	0.901	1.00	80.00	80.00	1.230	1.230	1.00
36	13:37	1.00	0.922	1.00	80.00	80.00	0.587	0.587	1.00
37	14:09	1.00	0.958	1.00	80.00	80.00	1.294	1.294	1.00
38	14:23	1.00	0.974	1.00	80.00	80.00	1.989	1.989	1.00
39	14:41	1.00	0.994	1.00	80.00	80.00	0.428	0.428	1.00
40	14:52	1.00	1.007	1.00	80.00	80.00	1.215	1.215	1.00
41	14:56	1.00	1.011	1.00	80.00	80.00	0.176	0.176	1.00
42	15:02	1.00	1.018	1.00	80.00	80.00	0.107	0.107	1.00
43	15:15	1.00	1.033	1.00	80.00	80.00	1.703	1.703	1.00
44	15:19	1.00	1.037	1.00	80.00	80.00	0.391	0.391	1.00
45	14:20	1.00	0.971	1.00	80.00	80.00	0.325	0.325	1.00
46	15:57	1.00	1.080	1.00	80.00	80.00	1.278	1.278	1.00
47	16:07	1.00	1.091	1.00	80.00	80.00	0.485	0.485	1.00
48	16:09	1.00	1.094	1.00	80.00	80.00	1.204	1.204	1.00
49	16:15	1.00	1.100	1.00	80.00	80.00	0.333	0.333	1.00
50	13:02	1.00	0.883	1.00	80.00	80.00	1.368	1.368	1.00

AR301821

Quantitation Report File: M080304

Data: M080304.TI

08/03/90 12:46:00

Sample: SSTDBO BONG BNA STD

Conds.: INST 5100M

Formula: M080301

Submitted by: 080390

Instrument: 5100M

Analyst: SLN

Weight: 0.005

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUDRANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLORO BENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	1008	16:48	31	1.138	A BB	17356.	80.000 NG	1.35
52	188	1107	18:27	52	1.000	A BB	82427.	40.000 NG	0.68
53	198	982	16:22	52	0.887	A BB	24266.	80.000 NG	1.35
54	169	986	16:26	52	0.891	A BB	114661.	80.000 NG	1.35
55	248	1043	17:23	52	0.942	A BB	33944.	80.000 NG	1.35
56	284	1066	17:46	52	0.963	A BB	33009.	80.000 NG	1.35
57	266	1089	18:09	52	0.984	A BB	22966.	80.000 NG	1.35
58	178	1110	18:30	52	1.003	A BV	200670.	80.000 NG	1.35
59	178	1115	18:35	52	1.007	A VB	211134.	80.000 NG	1.35
60	149	1179	19:39	52	1.065	A BB	227377.	80.000 NG	1.35
61	202	1252	20:52	52	1.131	A BB	163532.	80.000 NG	1.35
62	240	1425	23:45	62	1.000	A BB	50785.	40.000 NG	0.68
63	202	1279	21:19	62	0.898	A BB	167308.	80.000 NG	1.35
64	149	1348	22:28	62	0.946	A BB	92353.	80.000 NG	1.35
65	252	1415	23:35	62	0.993	A BB	30764.	80.000 NG	1.35
66	228	1423	23:43	62	0.999	A BV	19082.	80.000 NG	1.35

AR301822

AR301822

071

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	149	1419	23:39	62	0.996	A BV	131885.	80.000 NG	1.35
68	228	1429	23:49	62	1.003	A VB	109594.	80.000 NG	1.35
69	244	1293	21:33	62	0.907	A BB	95976.	80.000 NG	1.35
70	264	1699	28:19	70	1.000	A BB	46317.	40.000 NG	0.68
71	149	1514	25:14	70	0.891	A BB	225626.	80.000 NG	1.35
72	252	1610	26:50	70	0.948	A BV	107741.	80.000 NG	1.35
73	252	1617	26:57	70	0.952	A VB	91712.	80.000 NG	1.35
74	252	1685	28:05	70	0.992	A BB	99471.	80.000 NG	1.35
75	276	2027	33:47	70	1.193	A VB	39926.	80.000 NG	1.35
76	278	2030	33:50	70	1.195	A BB	87278.	80.000 NG	1.35
77	276	2123	35:23	70	1.250	A BB	91061.	80.000 NG	1.35

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:48	1.00	1.138	1.00	80.00	80.00	0.135	0.135	1.00
52	18:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	16:22	1.00	0.887	1.00	80.00	80.00	0.147	0.147	1.00
54	16:26	1.00	0.891	1.00	80.00	80.00	0.696	0.696	1.00
55	17:23	1.00	0.942	1.00	80.00	80.00	0.206	0.206	1.00
56	17:46	1.00	0.963	1.00	80.00	80.00	0.200	0.200	1.00
57	18:09	1.00	0.984	1.00	80.00	80.00	0.139	0.139	1.00
58	18:30	1.00	1.003	1.00	80.00	80.00	1.217	1.217	1.00
59	18:35	1.00	1.007	1.00	80.00	80.00	1.281	1.281	1.00
60	19:39	1.00	1.065	1.00	80.00	80.00	1.379	1.379	1.00
61	20:52	1.00	1.131	1.00	80.00	80.00	0.992	0.992	1.00
62	23:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	21:19	1.00	0.898	1.00	80.00	80.00	1.647	1.647	1.00
64	22:28	1.00	0.946	1.00	80.00	80.00	0.909	0.909	1.00
65	23:35	1.00	0.993	1.00	80.00	80.00	0.303	0.303	1.00
66	23:43	1.00	0.999	1.00	80.00	80.00	1.172	1.172	1.00
67	23:39	1.00	0.996	1.00	80.00	80.00	1.298	1.298	1.00
68	23:49	1.00	1.003	1.00	80.00	80.00	1.079	1.079	1.00
69	21:33	1.00	0.907	1.00	80.00	80.00	0.945	0.945	1.00
70	28:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	25:14	1.00	0.891	1.00	80.00	80.00	2.436	2.436	1.00
72	26:50	1.00	0.948	1.00	80.00	80.00	1.163	1.163	1.00
73	26:57	1.00	0.952	1.00	80.00	80.00	0.990	0.990	1.00
74	28:05	1.00	0.992	1.00	80.00	80.00	1.074	1.074	1.00
75	33:47	1.00	1.193	1.00	80.00	80.00	0.431	0.431	1.00
76	33:50	1.00	1.195	1.00	80.00	80.00	0.942	0.942	1.00
77	35:23	1.00	1.250	1.00	80.00	80.00	0.983	0.983	1.00

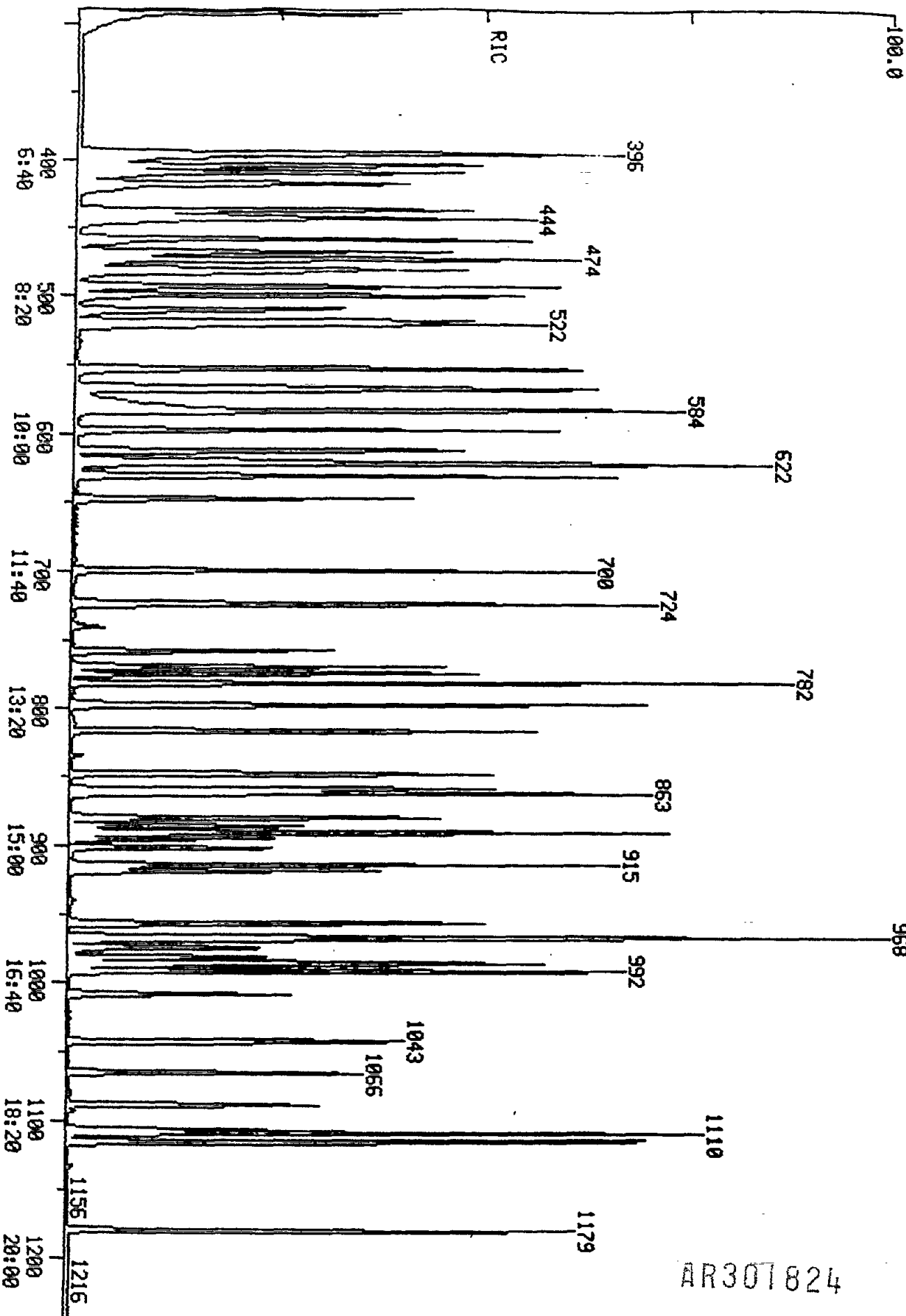
AR301823

07

RIC
08/03/90 13:33:00
SAMPLE: SSTD120 120NG BNA STD
COND.S.: INST 5100M
RANGE: G 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: M080305
CALL: M080305 #2

SCANS 290 TO 1245
OUT OF 290 TO 2200



AR307824

073

RIC
08/03/90 13:33:00
SAMPLE: SSTD120 120MG BNA STD
CONDS.: INST 5100M
RANGE: G 1.2200 LABEL: N 0, 4.0

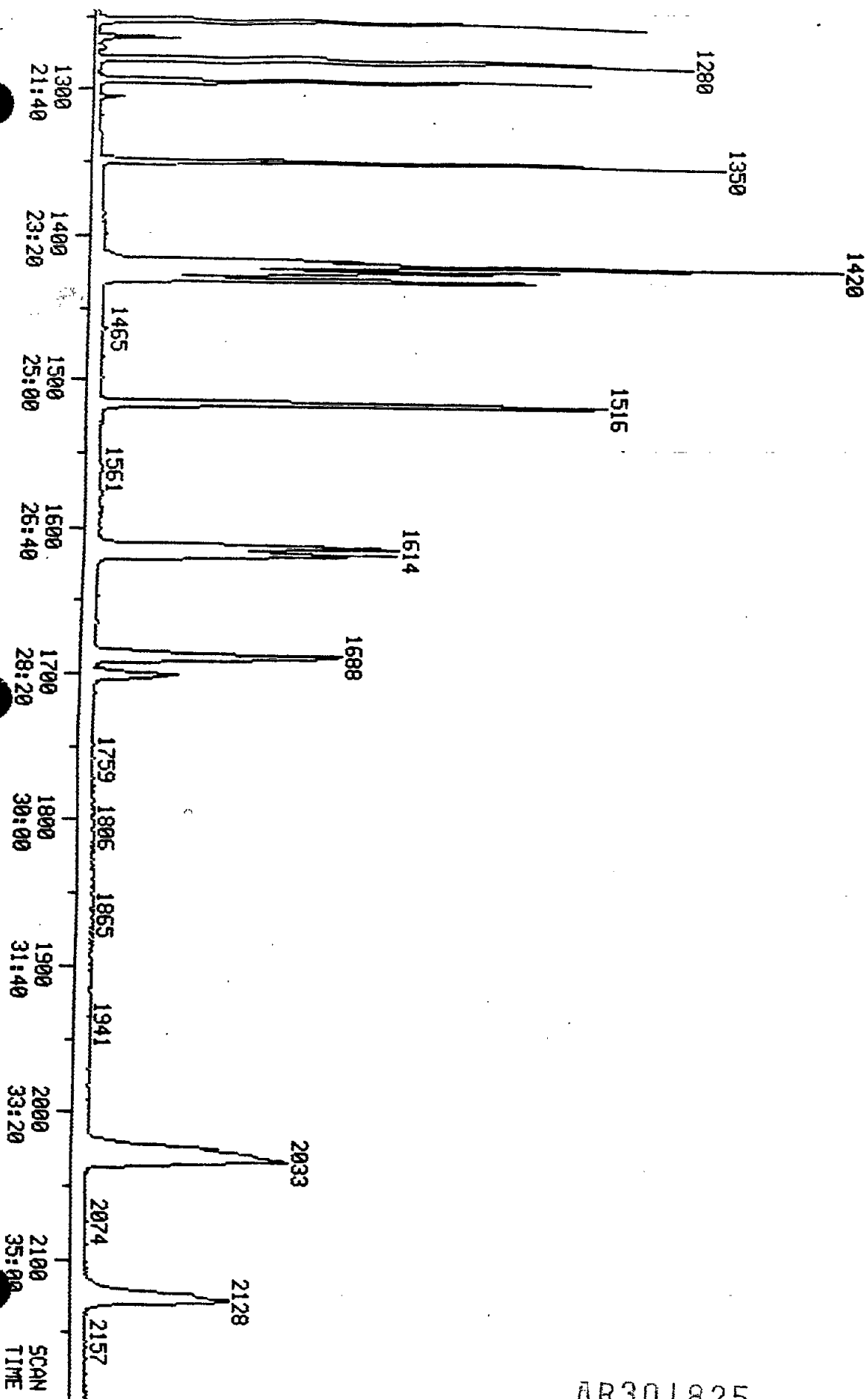
DATA: M080305 #1
CALI: M080305 #2

SCANS 1245 TO 2200
OUT OF 250 TO 2200

100.0

QUAN: A 0, 1.0, 0 BASE: U 20, 3

456432.



AR301825

Data: M080305.TI

08/03/90 13:33:00

Sample: SSTDI20 120NG BNA STD

Conds.: INST 5100M

Formula: M080301

Instrument: 5100M

Weight: 0.005

Submitted by: 080390

Analyst: SLN

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301826

075

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	442	7:22	1	1.000	A BB	31997.	40.000 NG	0.46
2	94	396	6:36	1	0.896	A BV	222488.	120.000 NG	1.37
3	93	410	6:50	1	0.928	A VB	208200.	120.000 NG	1.37
4	128	418	6:58	1	0.946	A BB	144365.	120.000 NG	1.37
5	146	438	7:18	1	0.991	A BV	140330.	120.000 NG	1.37
6	146	444	7:24	1	1.005	A VB	162783.	120.000 NG	1.37
7	108	460	7:40	1	1.041	A BV	99447.	120.000 NG	1.37
8	146	469	7:49	1	1.061	A BB	146353.	120.000 NG	1.37
9	108	474	7:54	1	1.072	A VB	151681.	120.000 NG	1.37
10	45	481	8:01	1	1.088	A BB	352061.	120.000 NG	1.37
11	108	494	8:14	1	1.118	A BB	151873.	120.000 NG	1.37
12	70	500	8:20	1	1.131	A BB	140462.	120.000 NG	1.37
13	117	510	8:30	1	1.154	A BB	70793.	120.000 NG	1.37
14	99	395	6:35	1	0.894	A BB	211638.	120.000 NG	1.37
15	112	293	4:53	1	0.663	A BB	176078.	120.000 NG	1.37
16	136	619	10:19	16	1.000	A BB	132560.	40.000 NG	0.46
17	77	522	8:42	16	0.843	A BB	182379.	120.000 NG	1.37
18	82	554	9:14	16	0.895	A BV	346310.	120.000 NG	1.37
19	139	566	9:26	16	0.914	A BB	75337.	120.000 NG	1.37
20	107	568	9:28	16	0.918	A BV	127419.	120.000 NG	1.37
21	122	583	9:43	16	0.942	A VB	94439.	120.000 NG	1.37
22	93	584	9:44	16	0.943	A BB	241523.	120.000 NG	1.37
23	162	598	9:58	16	0.966	A BB	102009.	120.000 NG	1.37
24	180	613	10:13	16	0.990	A BB	108683.	120.000 NG	1.37
25	128	622	10:22	16	1.005	A BV	359800.	120.000 NG	1.37
26	127	631	10:31	16	1.019	A BB	192951.	120.000 NG	1.37
27	225	648	10:48	16	1.047	A BB	47286.	120.000 NG	1.37
28	107	700	11:40	16	1.131	A BB	125863.	120.000 NG	1.37
29	142	724	12:04	16	1.170	A BB	248985.	120.000 NG	1.37
30	82	519	8:39	16	0.838	A VB	222304.	120.000 NG	1.37
31	164	886	14:46	31	1.000	A BB	59421.	40.000 NG	0.46
32	237	758	12:38	31	0.856	A BB	44352.	120.000 NG	1.37
33	196	770	12:50	31	0.869	A BV	59227.	120.000 NG	1.37
34	196	774	12:54	31	0.874	A VB	62497.	120.000 NG	1.37
35	162	798	13:18	31	0.901	A BB	206466.	120.000 NG	1.37
36	65	817	13:37	31	0.922	A BB	111544.	120.000 NG	1.37
37	163	849	14:09	31	0.958	A BB	221381.	120.000 NG	1.37
38	152	863	14:23	31	0.974	A BB	333535.	120.000 NG	1.37
39	138	881	14:41	31	0.994	A BB	80150.	120.000 NG	1.37
40	153	891	14:51	31	1.006	A BB	206394.	120.000 NG	1.37
41	184	896	14:56	31	1.011	A BB	30416.	120.000 NG	1.37
42	109	902	15:02	31	1.018	A BB	18749.	120.000 NG	1.37
43	168	915	15:15	31	1.033	A BB	275649.	120.000 NG	1.37
44	165	920	15:20	31	1.038	A BB	64969.	120.000 NG	1.37
45	165	860	14:20	31	0.971	A BB	55268.	120.000 NG	1.37
46	149	958	15:58	31	1.081	A BB	212628.	120.000 NG	1.37
47	204	968	16:08	31	1.093	A BB	79803.	120.000 NG	1.37
48	166	969	16:09	31	1.094	A BB	201783.	120.000 NG	1.37
49	138	975	16:15	31	1.100	A VV	58926.	120.000 NG	1.37
50	172	782	13:02	31	0.883	A BB	214770.	120.000 NG	1.37

AR301827

07.

No	Ret(L)	Ratio	RR7(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:36	1.00	0.896	1.00	120.00	120.00	2.318	2.318	1.00
3	6:50	1.00	0.928	1.00	120.00	120.00	2.169	2.169	1.00
4	6:58	1.00	0.946	1.00	120.00	120.00	1.504	1.504	1.00
5	7:18	1.00	0.991	1.00	120.00	120.00	1.462	1.462	1.00
6	7:24	1.00	1.005	1.00	120.00	120.00	1.696	1.696	1.00
7	7:40	1.00	1.041	1.00	120.00	120.00	1.036	1.036	1.00
8	7:49	1.00	1.061	1.00	120.00	120.00	1.525	1.525	1.00
9	7:54	1.00	1.072	1.00	120.00	120.00	1.580	1.580	1.00
10	8:01	1.00	1.088	1.00	120.00	120.00	3.668	3.668	1.00
11	8:14	1.00	1.118	1.00	120.00	120.00	1.582	1.582	1.00
12	8:20	1.00	1.131	1.00	120.00	120.00	1.463	1.463	1.00
13	8:30	1.00	1.154	1.00	120.00	120.00	0.737	0.737	1.00
14	6:35	1.00	0.894	1.00	120.00	120.00	2.205	2.205	1.00
15	4:53	1.00	0.663	1.00	120.00	120.00	1.834	1.834	1.00
16	10:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:42	1.00	0.843	1.00	120.00	120.00	0.459	0.459	1.00
18	9:14	1.00	0.895	1.00	120.00	120.00	0.871	0.871	1.00
19	9:26	1.00	0.914	1.00	120.00	120.00	0.189	0.189	1.00
20	9:28	1.00	0.918	1.00	120.00	120.00	0.320	0.320	1.00
21	9:43	1.00	0.942	1.00	120.00	120.00	0.237	0.237	1.00
22	9:44	1.00	0.943	1.00	120.00	120.00	0.607	0.607	1.00
23	9:58	1.00	0.966	1.00	120.00	120.00	0.257	0.257	1.00
24	10:13	1.00	0.990	1.00	120.00	120.00	0.273	0.273	1.00
25	10:22	1.00	1.005	1.00	120.00	120.00	0.905	0.905	1.00
26	10:31	1.00	1.019	1.00	120.00	120.00	0.485	0.485	1.00
27	10:48	1.00	1.047	1.00	120.00	120.00	0.119	0.119	1.00
28	11:40	1.00	1.131	1.00	120.00	120.00	0.316	0.316	1.00
29	12:04	1.00	1.170	1.00	120.00	120.00	0.626	0.626	1.00
30	8:39	1.00	0.838	1.00	120.00	120.00	0.559	0.559	1.00
31	14:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:38	1.00	0.856	1.00	120.00	120.00	0.249	0.249	1.00
33	12:50	1.00	0.869	1.00	120.00	120.00	0.332	0.332	1.00
34	12:54	1.00	0.874	1.00	120.00	120.00	0.351	0.351	1.00
35	13:18	1.00	0.901	1.00	120.00	120.00	1.158	1.158	1.00
36	13:37	1.00	0.922	1.00	120.00	120.00	0.626	0.626	1.00
37	14:09	1.00	0.958	1.00	120.00	120.00	1.242	1.242	1.00
38	14:23	1.00	0.974	1.00	120.00	120.00	1.871	1.871	1.00
39	14:41	1.00	0.994	1.00	120.00	120.00	0.450	0.450	1.00
40	14:51	1.00	1.006	1.00	120.00	120.00	1.158	1.158	1.00
41	14:56	1.00	1.011	1.00	120.00	120.00	0.171	0.171	1.00
42	15:02	1.00	1.018	1.00	120.00	120.00	0.105	0.105	1.00
43	15:15	1.00	1.033	1.00	120.00	120.00	1.546	1.546	1.00
44	15:20	1.00	1.038	1.00	120.00	120.00	0.364	0.364	1.00
45	14:20	1.00	0.971	1.00	120.00	120.00	0.310	0.310	1.00
46	15:58	1.00	1.081	1.00	120.00	120.00	1.193	1.193	1.00
47	16:08	1.00	1.093	1.00	120.00	120.00	0.448	0.448	1.00
48	16:09	1.00	1.094	1.00	120.00	120.00	1.132	1.132	1.00
49	16:15	1.00	1.100	1.00	120.00	120.00	0.331	0.331	1.00
50	13:02	1.00	0.883	1.00	120.00	120.00	1.205	1.205	1.00

AR301828

Data: M080305.TI

08/03/90 13:33:00

Sample: SSTD120 120NG BNA STD

Conds.: INST 5100M

Formula: M080301

Instrument: 5100M

Weight: 0.005

Submitted by: 080390

Analyst: SLN

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	1009	16:49	31	1.139	A BB	22757.	120.000 NG	1.37
52	188	1106	18:26	52	1.000	A BB	71707.	40.000 NG	0.46
53	198	982	16:22	52	0.888	A BB	30467.	120.000 NG	1.37
54	169	987	16:27	52	0.892	A BB	150607.	120.000 NG	1.37
55	248	1043	17:23	52	0.943	A BB	45667.	120.000 NG	1.37
56	284	1065	17:45	52	0.963	A BB	42423.	120.000 NG	1.37
57	266	1088	18:08	52	0.984	A BB	28910.	120.000 NG	1.37
58	178	1110	18:30	52	1.004	A BV	247058.	120.000 NG	1.37
59	178	1115	18:35	52	1.008	A VB	251352.	120.000 NG	1.37
60	149	1179	19:39	52	1.066	A BV	269546.	120.000 NG	1.37
61	202	1253	20:53	52	1.133	A BB	201509.	120.000 NG	1.37
62	240	1426	23:46	62	1.000	A BB	50029.	40.000 NG	0.46
63	202	1280	21:20	62	0.898	A BB	206230.	120.000 NG	1.37
64	149	1350	22:30	62	0.947	A BB	130117.	120.000 NG	1.37
65	252	1417	23:37	62	0.994	A BB	50273.	120.000 NG	1.37
66	228	1424	23:44	62	0.999	A BV	162409.	120.000 NG	1.37

AR301829

075

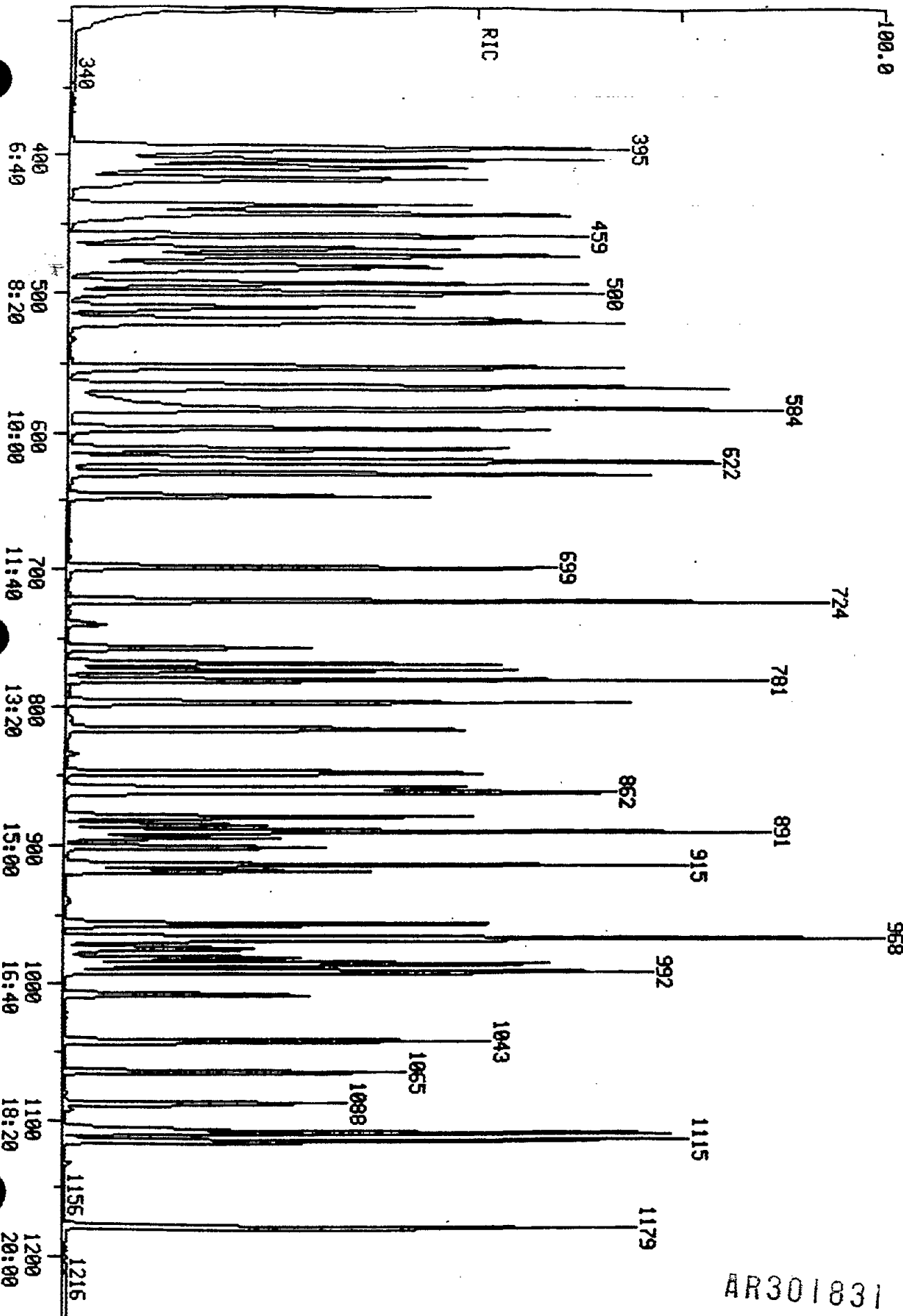
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	149	1420	23:40	62	0.996	A BV	189139.	120.000 NG	1.37
68	228	1430	23:50	62	1.003	A VB	158495.	120.000 NG	1.37
69	244	1294	21:34	62	0.907	A BB	121412.	120.000 NG	1.37
70	264	1700	28:20	70	1.000	A BB	50840.	40.000 NG	0.46
71	149	1516	25:16	70	0.892	A BB	343614.	120.000 NG	1.37
72	252	1614	26:54	70	0.949	A BV	177587.	120.000 NG	1.37
73	252	1619	26:59	70	0.952	A VB	154109.	120.000 NG	1.37
74	252	1689	28:09	70	0.994	A BV	160955.	120.000 NG	1.37
75	276	2024	33:44	70	1.191	A BB	178217.	120.000 NG	1.37
76	278	2033	33:53	70	1.196	A BB	141541.	120.000 NG	1.37
77	276	2127	35:27	70	1.251	A BB	152512.	120.000 NG	1.37

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:49	1.00	1.139	1.00	120.00	120.00	0.128	0.128	1.00
52	18:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	16:22	1.00	0.888	1.00	120.00	120.00	0.142	0.142	1.00
54	16:27	1.00	0.892	1.00	120.00	120.00	0.700	0.700	1.00
55	17:23	1.00	0.943	1.00	120.00	120.00	0.212	0.212	1.00
56	17:45	1.00	0.963	1.00	120.00	120.00	0.197	0.197	1.00
57	18:08	1.00	0.984	1.00	120.00	120.00	0.134	0.134	1.00
58	18:30	1.00	1.004	1.00	120.00	120.00	1.148	1.148	1.00
59	18:35	1.00	1.008	1.00	120.00	120.00	1.168	1.168	1.00
60	19:39	1.00	1.066	1.00	120.00	120.00	1.253	1.253	1.00
61	20:53	1.00	1.133	1.00	120.00	120.00	0.937	0.937	1.00
62	23:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	21:20	1.00	0.898	1.00	120.00	120.00	1.374	1.374	1.00
64	22:30	1.00	0.947	1.00	120.00	120.00	0.867	0.867	1.00
65	23:37	1.00	0.994	1.00	120.00	120.00	0.335	0.335	1.00
66	23:44	1.00	0.999	1.00	120.00	120.00	1.082	1.082	1.00
67	23:40	1.00	0.996	1.00	120.00	120.00	1.260	1.260	1.00
68	23:50	1.00	1.003	1.00	120.00	120.00	1.056	1.056	1.00
69	21:34	1.00	0.907	1.00	120.00	120.00	0.809	0.809	1.00
70	28:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	25:16	1.00	0.892	1.00	120.00	120.00	2.253	2.253	1.00
72	26:54	1.00	0.949	1.00	120.00	120.00	1.164	1.164	1.00
73	26:59	1.00	0.952	1.00	120.00	120.00	1.010	1.010	1.00
74	28:09	1.00	0.994	1.00	120.00	120.00	1.055	1.055	1.00
75	33:44	1.00	1.191	1.00	120.00	120.00	1.168	1.168	1.00
76	33:53	1.00	1.196	1.00	120.00	120.00	0.928	0.928	1.00
77	35:27	1.00	1.251	1.00	120.00	120.00	1.000	1.000	1.00

AR301830

RIC
08/03/90 14:19:00
SAMPLE: SSTDI60 160NG BNA STD
COND.: INST 5100M
RANGE: G 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: M080306 #1
CALI: M080306 #2
SCANS 290 TO 1245
OUT OF 290 TO 2200



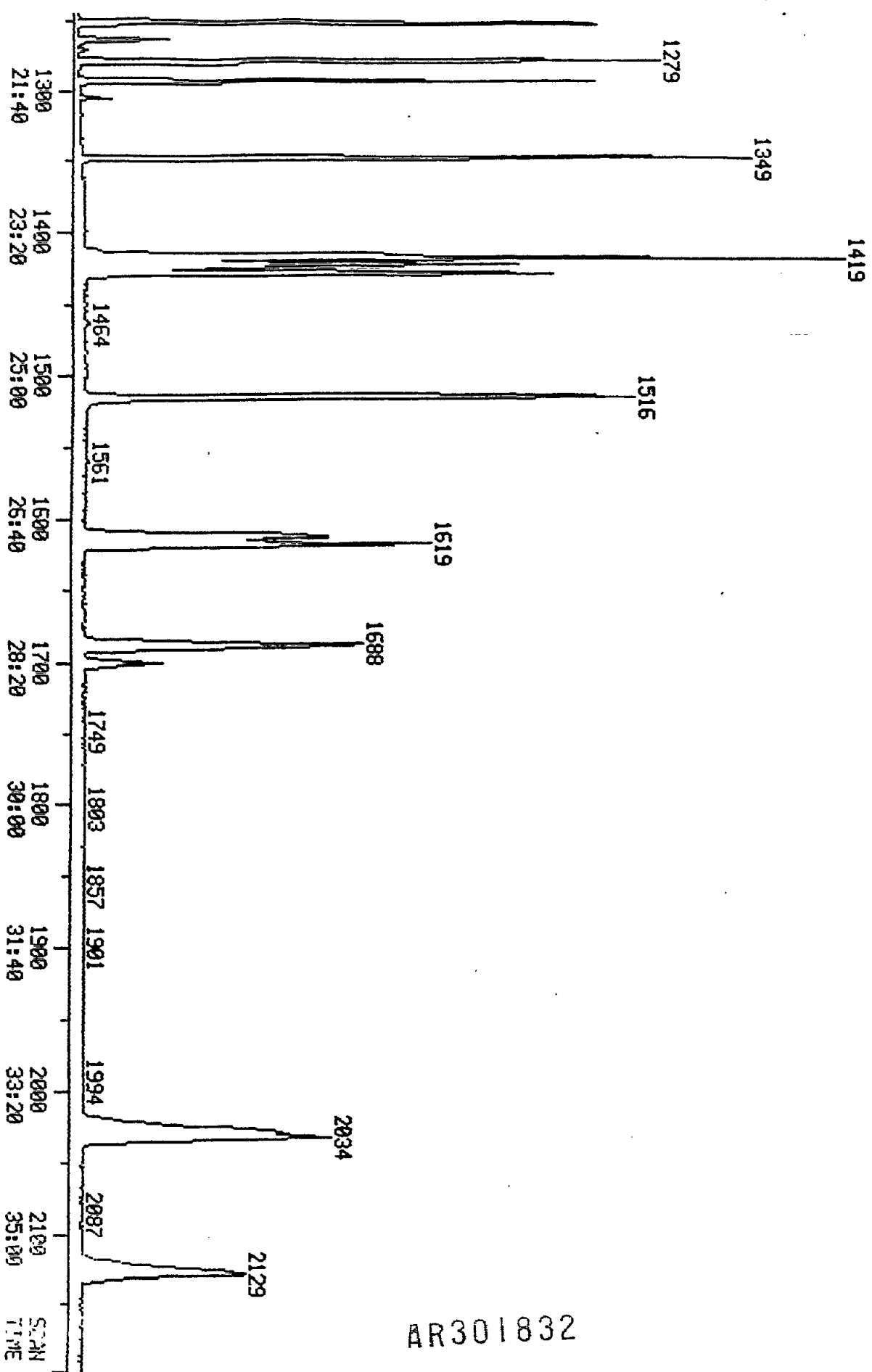
AR301831

08

IC
08/03/90 14:19:00
SAMPLE: SSTDI60 160NG BNA STD
COND.: INST 5100M
RANGE: G 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: M080306
CALI: M080306 #2
SCANS 1245 TO 2200
OUT OF 290 TO 2200

526336.



AR301832

Data: M080306.TI

08/03/90 14:19:00

Sample: SSTD160 160NG BNA STD

Conds.: INST 5100M

Formula: M080301

Instrument: 5100M

Weight: 0.005

Submitted by: 080390

Analyst: SLN

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301833

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	441	7:21	1	1.000	A BB	30326.	40.000 NG	0.34
2	94	396	6:36	1	0.898	A BV	290480.	160.000 NG	1.38
3	93	410	6:50	1	0.930	A VB	284384.	160.000 NG	1.38
4	128	418	6:58	1	0.948	A BB	191405.	160.000 NG	1.38
5	146	437	7:17	1	0.991	A BV	185529.	160.000 NG	1.38
6	146	443	7:23	1	1.005	A VB	200709.	160.000 NG	1.38
7	108	459	7:39	1	1.041	A BV	125642.	160.000 NG	1.38
8	146	468	7:48	1	1.061	A BB	188658.	160.000 NG	1.38
9	108	474	7:54	1	1.075	A VV	187707.	160.000 NG	1.38
10	45	481	8:01	1	1.091	A VB	451267.	160.000 NG	1.38
11	108	493	8:13	1	1.118	A BB	186907.	160.000 NG	1.38
12	70	500	8:20	1	1.134	A BV	180792.	160.000 NG	1.38
13	117	510	8:30	1	1.156	A BB	91951.	160.000 NG	1.38
14	99	394	6:34	1	0.893	A BB	272540.	160.000 NG	1.38
15	112	293	4:53	1	0.664	A BB	232527.	160.000 NG	1.38
16	136	619	10:19	16	1.000	A BB	125835.	40.000 NG	0.34
17	77	521	8:41	16	0.842	A BB	240851.	160.000 NG	1.38
18	82	553	9:13	16	0.893	A BV	419172.	160.000 NG	1.38
19	139	566	9:26	16	0.914	A BV	95897.	160.000 NG	1.38
20	107	568	9:28	16	0.918	A BV	162173.	160.000 NG	1.38
21	122	584	9:44	16	0.943	A VB	114599.	160.000 NG	1.38
22	93	584	9:44	16	0.943	A BB	298126.	160.000 NG	1.38
23	162	598	9:58	16	0.966	A BB	128540.	160.000 NG	1.38
24	180	612	10:12	16	0.989	A BB	135792.	160.000 NG	1.38
25	128	621	10:21	16	1.003	A BV	406243.	160.000 NG	1.38
26	127	631	10:31	16	1.019	A VB	236642.	160.000 NG	1.38
27	225	647	10:47	16	1.045	A BB	60306.	160.000 NG	1.38
28	107	699	11:39	16	1.129	A BB	155893.	160.000 NG	1.38
29	142	724	12:04	16	1.170	A BB	275928.	160.000 NG	1.38
30	82	519	8:39	16	0.838	A VB	286665.	160.000 NG	1.38
31	164	886	14:46	31	1.000	A BB	55204.	40.000 NG	0.34
32	237	757	12:37	31	0.854	A BB	56066.	160.000 NG	1.38
33	196	769	12:49	31	0.868	A BV	71969.	160.000 NG	1.38
34	196	774	12:54	31	0.874	A VB	75202.	160.000 NG	1.38
35	162	797	13:17	31	0.900	A BB	250002.	160.000 NG	1.38
36	65	817	13:37	31	0.922	A BB	139036.	160.000 NG	1.38
37	163	848	14:08	31	0.957	A BB	264019.	160.000 NG	1.38
38	152	862	14:22	31	0.973	A BB	375020.	160.000 NG	1.38
39	138	880	14:40	31	0.993	A BB	96422.	160.000 NG	1.38
40	153	891	14:51	31	1.006	A BB	245510.	160.000 NG	1.38
41	184	895	14:55	31	1.010	A BB	37570.	160.000 NG	1.38
42	109	902	15:02	31	1.018	A BB	23443.	160.000 NG	1.38
43	168	915	15:15	31	1.033	A BB	301326.	160.000 NG	1.38
44	165	919	15:19	31	1.037	A BB	81626.	160.000 NG	1.38
45	165	859	14:19	31	0.970	A BB	67686.	160.000 NG	1.38
46	149	957	15:57	31	1.080	A BB	259313.	160.000 NG	1.38
47	204	967	16:07	31	1.091	A BB	93687.	160.000 NG	1.38
48	166	969	16:09	31	1.094	A BB	229939.	160.000 NG	1.38
49	138	975	16:15	31	1.100	A VB	69705.	160.000 NG	1.38
50	172	781	13:01	31	0.881	A BB	250368.	160.000 NG	1.38

AR301834

08

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:36	1.00	0.898	1.00	160.00	160.00	2.395	2.395	1.00
3	6:50	1.00	0.930	1.00	160.00	160.00	2.344	2.344	1.00
4	6:58	1.00	0.948	1.00	160.00	160.00	1.578	1.578	1.00
5	7:17	1.00	0.991	1.00	160.00	160.00	1.529	1.529	1.00
6	7:23	1.00	1.005	1.00	160.00	160.00	1.655	1.655	1.00
7	7:39	1.00	1.041	1.00	160.00	160.00	1.036	1.036	1.00
8	7:48	1.00	1.061	1.00	160.00	160.00	1.555	1.555	1.00
9	7:54	1.00	1.075	1.00	160.00	160.00	1.547	1.547	1.00
10	8:01	1.00	1.091	1.00	160.00	160.00	3.720	3.720	1.00
11	8:13	1.00	1.118	1.00	160.00	160.00	1.541	1.541	1.00
12	8:20	1.00	1.134	1.00	160.00	160.00	1.490	1.490	1.00
13	8:30	1.00	1.156	1.00	160.00	160.00	0.758	0.758	1.00
14	6:34	1.00	0.893	1.00	160.00	160.00	2.247	2.247	1.00
15	4:53	1.00	0.664	1.00	160.00	160.00	1.917	1.917	1.00
16	10:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:41	1.00	0.842	1.00	160.00	160.00	0.479	0.479	1.00
18	9:13	1.00	0.893	1.00	160.00	160.00	0.833	0.833	1.00
19	9:26	1.00	0.914	1.00	160.00	160.00	0.191	0.191	1.00
20	9:28	1.00	0.918	1.00	160.00	160.00	0.322	0.322	1.00
21	9:44	1.00	0.943	1.00	160.00	160.00	0.228	0.228	1.00
22	9:44	1.00	0.943	1.00	160.00	160.00	0.592	0.592	1.00
23	9:58	1.00	0.966	1.00	160.00	160.00	0.255	0.255	1.00
24	10:12	1.00	0.989	1.00	160.00	160.00	0.270	0.270	1.00
25	10:21	1.00	1.003	1.00	160.00	160.00	0.807	0.807	1.00
26	10:31	1.00	1.019	1.00	160.00	160.00	0.470	0.470	1.00
27	10:47	1.00	1.045	1.00	160.00	160.00	0.120	0.120	1.00
28	11:39	1.00	1.129	1.00	160.00	160.00	0.310	0.310	1.00
29	12:04	1.00	1.170	1.00	160.00	160.00	0.548	0.548	1.00
30	8:39	1.00	0.838	1.00	160.00	160.00	0.570	0.570	1.00
31	14:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:37	1.00	0.854	1.00	160.00	160.00	0.254	0.254	1.00
33	12:49	1.00	0.868	1.00	160.00	160.00	0.326	0.326	1.00
34	12:54	1.00	0.874	1.00	160.00	160.00	0.341	0.341	1.00
35	13:17	1.00	0.900	1.00	160.00	160.00	1.132	1.132	1.00
36	13:37	1.00	0.922	1.00	160.00	160.00	0.630	0.630	1.00
37	14:08	1.00	0.957	1.00	160.00	160.00	1.196	1.196	1.00
38	14:22	1.00	0.973	1.00	160.00	160.00	1.698	1.698	1.00
39	14:40	1.00	0.993	1.00	160.00	160.00	0.437	0.437	1.00
40	14:51	1.00	1.006	1.00	160.00	160.00	1.112	1.112	1.00
41	14:55	1.00	1.010	1.00	160.00	160.00	0.170	0.170	1.00
42	15:02	1.00	1.018	1.00	160.00	160.00	0.106	0.106	1.00
43	15:15	1.00	1.033	1.00	160.00	160.00	1.365	1.365	1.00
44	15:19	1.00	1.037	1.00	160.00	160.00	0.370	0.370	1.00
45	14:19	1.00	0.970	1.00	160.00	160.00	0.307	0.307	1.00
46	15:57	1.00	1.080	1.00	160.00	160.00	1.174	1.174	1.00
47	16:07	1.00	1.091	1.00	160.00	160.00	0.424	0.424	1.00
48	16:09	1.00	1.094	1.00	160.00	160.00	1.041	1.041	1.00
49	16:15	1.00	1.100	1.00	160.00	160.00	0.316	0.316	1.00
50	13:01	1.00	0.881	1.00	160.00	160.00	1.134	1.134	1.00

AR301835

Data: M080306.TI

08/03/90 14:19:00

Sample: SSTD160 160NG BNA STD

Conds.: INST 5100M

Formula: M080301

Instrument: 5100M

Weight: 0.005

Submitted by: 080390

Analyst: SLN

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLEETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	1008	16:48	31	1.138	A BB	27663.	160.000 NG	1.38
52	188	1106	18:26	52	1.000	A BB	66357.	40.000 NG	0.34
53	198	982	16:22	52	0.888	A BB	38045.	160.000 NG	1.38
54	169	986	16:26	52	0.892	A BB	173391.	160.000 NG	1.38
55	248	1043	17:23	52	0.943	A BB	54490.	160.000 NG	1.38
56	284	1065	17:45	52	0.963	A BB	51375.	160.000 NG	1.38
57	266	1088	18:08	52	0.984	A BB	36175.	160.000 NG	1.38
58	178	1109	18:29	52	1.003	A BV	287747.	160.000 NG	1.38
59	178	1115	18:35	52	1.008	A VB	288339.	160.000 NG	1.38
60	149	1179	19:39	52	1.066	A BV	317381.	160.000 NG	1.38
61	202	1252	20:52	52	1.132	A BB	244081.	160.000 NG	1.38
62	240	1426	23:46	62	1.000	A BB	48313.	40.000 NG	0.34
63	202	1279	21:19	62	0.897	A BB	249412.	160.000 NG	1.38
64	149	1349	22:29	62	0.946	A BB	171031.	160.000 NG	1.38
65	252	1416	23:36	62	0.993	A BB	69509.	160.000 NG	1.38
66	228	1423	23:43	62	0.998	A BV	207848.	160.000 NG	1.38

AR301836

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	149	1419	23:39	62	0.995	A BV	241858.	160.000 NG	1.38
68	228	1430	23:50	62	1.003	A VB	197077.	160.000 NG	1.38
69	244	1293	21:33	62	0.907	A BB	147800.	160.000 NG	1.38
70	264	1701	28:21	70	1.000	A BB	48980.	40.000 NG	0.34
71	149	1516	25:16	70	0.891	A BB	430613.	160.000 NG	1.38
72	252	1613	26:53	70	0.948	A BV	210981.	160.000 NG	1.38
73	252	1619	26:59	70	0.952	A VB	186184.	160.000 NG	1.38
74	252	1688	28:08	70	0.992	A BV	200722.	160.000 NG	1.38
75	276	2028	33:48	70	1.192	A BB	226811.	160.000 NG	1.38
76	276	2034	33:54	70	1.196	A BB	184698.	160.000 NG	1.38
77	276	2129	35:29	70	1.252	A BB	193520.	160.000 NG	1.38

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:48	1.00	1.138	1.00	160.00	160.00	0.125	0.125	1.00
52	18:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	16:22	1.00	0.888	1.00	160.00	160.00	0.143	0.143	1.00
54	16:26	1.00	0.892	1.00	160.00	160.00	0.653	0.653	1.00
55	17:23	1.00	0.943	1.00	160.00	160.00	0.205	0.205	1.00
56	17:45	1.00	0.963	1.00	160.00	160.00	0.194	0.194	1.00
57	18:08	1.00	0.984	1.00	160.00	160.00	0.136	0.136	1.00
58	18:29	1.00	1.003	1.00	160.00	160.00	1.084	1.084	1.00
59	18:35	1.00	1.008	1.00	160.00	160.00	1.086	1.086	1.00
60	19:39	1.00	1.066	1.00	160.00	160.00	1.196	1.196	1.00
61	20:52	1.00	1.132	1.00	160.00	160.00	0.920	0.920	1.00
62	23:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	21:19	1.00	0.897	1.00	160.00	160.00	1.291	1.291	1.00
64	22:29	1.00	0.946	1.00	160.00	160.00	0.885	0.885	1.00
65	23:36	1.00	0.993	1.00	160.00	160.00	0.360	0.360	1.00
66	23:43	1.00	0.998	1.00	160.00	160.00	1.076	1.076	1.00
67	23:39	1.00	0.995	1.00	160.00	160.00	1.252	1.252	1.00
68	23:50	1.00	1.003	1.00	160.00	160.00	1.020	1.020	1.00
69	21:33	1.00	0.907	1.00	160.00	160.00	0.765	0.765	1.00
70	28:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	25:16	1.00	0.891	1.00	160.00	160.00	2.198	2.198	1.00
72	26:53	1.00	0.948	1.00	160.00	160.00	1.077	1.077	1.00
73	26:59	1.00	0.952	1.00	160.00	160.00	0.950	0.950	1.00
74	28:08	1.00	0.992	1.00	160.00	160.00	1.025	1.025	1.00
75	33:48	1.00	1.192	1.00	160.00	160.00	1.158	1.158	1.00
76	33:54	1.00	1.196	1.00	160.00	160.00	0.943	0.943	1.00
77	35:29	1.00	1.252	1.00	160.00	160.00	0.988	0.988	1.00

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

08

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100M

Calibration Date: 08/06/90

Time: 1401

Lab File ID: M080602

Init. Calib. Date(s): 08/03/90 08/03/90

Min RRF50 for SPCC(#) = 0.050

Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol	* 2.212	2.205	0.3 *
bis(2-Chloroethyl)ether	2.069	1.988	3.9
2-Chlorophenol	1.504	1.446	3.9
1,3-Dichlorobenzene	1.554	1.554	0.0
1,4-Dichlorobenzene	* 1.654	1.603	3.1 *
Benzyl alcohol	1.004	1.057	-5.3
1,2-Dichlorobenzene	1.546	1.529	1.1
2-Methylphenol	1.534	1.573	-2.5
bis(2-Chloroisopropyl)ether	3.480	3.507	-0.8
4-Methylphenol	1.557	1.627	-4.5
N-Nitroso-Di-n-propylamine	# 1.390	1.517	-9.1 #
Hexachloroethane	0.738	0.766	-3.8
Nitrobenzene	0.474	0.484	-2.1
Isophorone	0.881	0.941	-6.8
2-Nitrophenol	* 0.195	0.200	-2.6 *
2,4-Dimethylphenol	0.338	0.319	5.6
Benzoic acid	0.222	0.221	0.5
bis(2-Chloroethoxy)methane	0.606	0.623	-2.8
2,4-Dichlorophenol	* 0.276	0.266	3.6 *
1,2,4-Trichlorobenzene	0.286	0.274	4.2
Naphthalene	1.010	1.044	-3.4
4-Chloroaniline	0.496	0.508	-2.4
Hexachlorobutadiene	* 0.129	0.117	9.3 *
4-Chloro-3-methylphenol	* 0.328	0.361	-10.1 *
2-Methylnaphthalene	0.643	0.700	-8.9
Hexachlorocyclopentadiene	# 0.255	0.218	14.5 #
2,4,6-Trichlorophenol	* 0.338	0.310	8.3 *
2,4,5-Trichlorophenol	0.345	0.322	6.7
2-Chloronaphthalene	1.223	1.127	7.8
2-Nitroaniline	0.587	0.637	-8.5
Dimethylphthalate	1.255	1.204	4.1
Acenaphthylene	1.980	1.911	3.5
2,6-Dinitrotoluene	0.311	0.323	-3.9
3-Nitroaniline	0.418	0.447	-6.9
Acenaphthene	* 1.209	1.168	3.4 *
2,4-Dinitrophenol	# 0.163	0.173	-6.1 #
4-Nitrophenol	# 0.101	0.130	-28.7 #

FORM VII SV-1

5/88 Rev.

AR301838

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

087

Lab Name: Roy F. Weston, Inc. Contract: 2267-09-02-0000
Case No.: STANDARD CHLORINE RFW Lot: 9008L253
Instrument ID: 5100M Calibration Date: 08/06/90 Time: 1401
Lab File ID: M080602 Init. Calib. Date(s): 08/03/90 08/03/90
Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.624	1.626	-0.1
2,4-Dinitrotoluene	0.369	0.425	-15.2
Diethylphthalate	1.216	1.331	-9.5
4-Chlorophenyl-phenylether	0.465	0.461	0.9
Fluorene	1.190	1.214	-2.0
4-Nitroaniline	0.316	0.375	-18.7
4,6-Dinitro-2-methylphenol	0.136	0.131	3.7
N-Nitrosodiphenylamine (1)	* 0.679	0.584	14.0 *
4-Bromophenyl-phenylether	0.203	0.170	16.3
Hexachlorobenzene	0.200	0.164	18.0
Pentachlorophenol	* 0.129	0.114	11.6 *
Phenanthrene	1.202	1.090	9.3
Anthracene	1.228	1.100	10.4
Di-n-Butylphthalate	1.355	1.344	0.8
Fluoranthene	* 0.981	0.936	4.6 *
Pyrene	1.701	1.734	-1.9
Butylbenzylphthalate	0.899	0.965	-7.3
3,3'-Dichlorobenzidine	0.307	0.301	2.0
Benzo(a)anthracene	1.140	1.161	-1.8
Chrysene	1.076	1.092	-1.5
bis(2-Ethylhexyl)phthalate	1.281	1.430	-11.6
Di-n-Octyl phthalate	* 2.325	2.585	-11.2 *
Benzo(b)fluoranthene	1.154	1.118	3.1
Benzo(k)fluoranthene	0.978	1.042	-6.5
Benzo(a)pyrene	* 1.026	1.053	-2.6 *
Indeno(1,2,3-cd)pyrene	0.957	1.091	-14.0
Dibenzo(a,h)anthracene	0.887	0.870	1.9
Benzo(g,h,i)perylene	0.934	0.925	1.0
Nitrobenzene-d5	0.550	0.581	-5.6
2-Fluorobiphenyl	1.306	1.252	4.1
p-Terphenyl-d14	0.945	0.971	-2.8
Phenol-d5	2.205	2.231	-1.2
2-Fluorophenol	1.760	1.671	5.1
2,4,6-Tribromophenol	0.129	0.123	4.7

(1) Cannot be separated from Diphenylamine

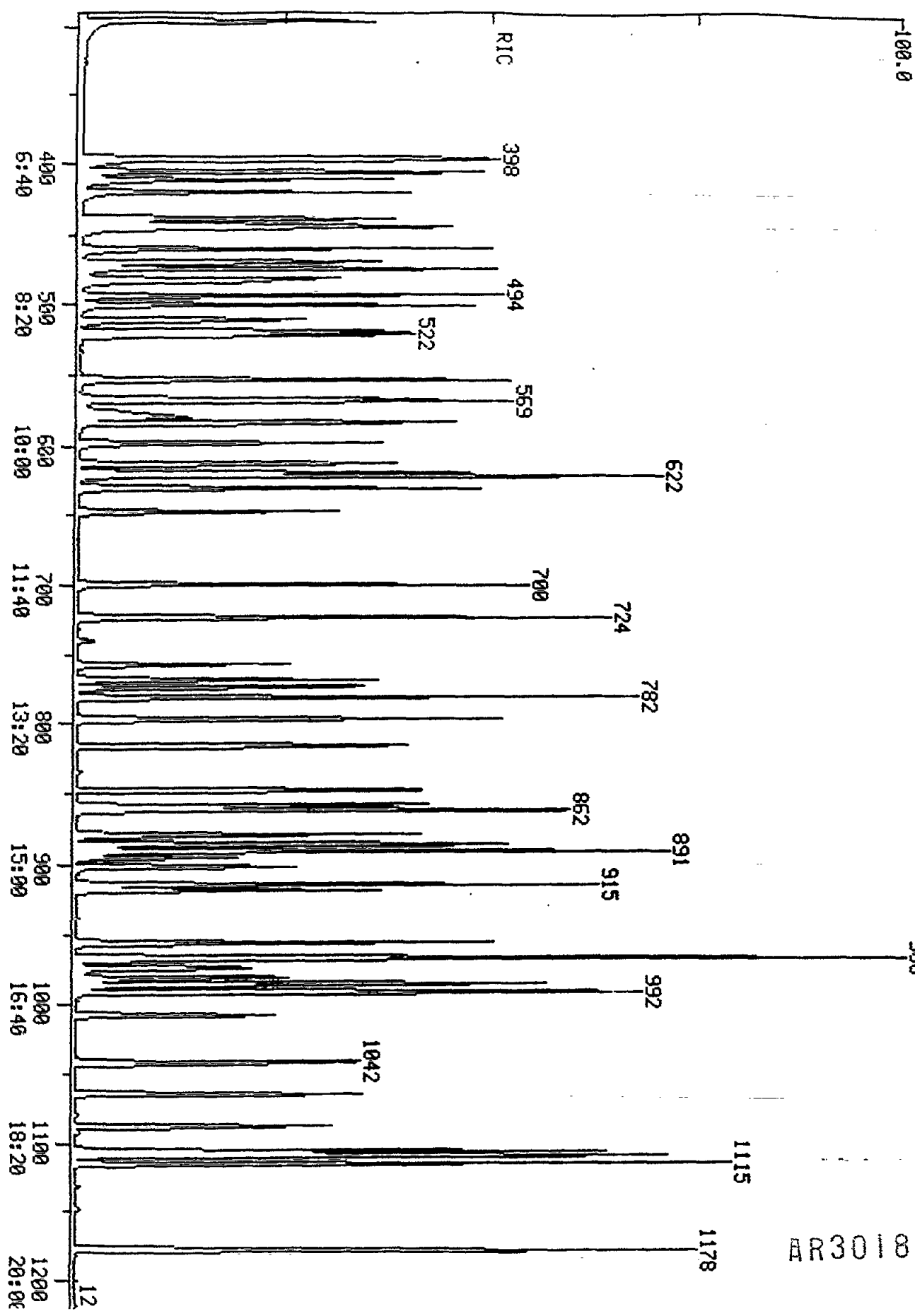
FORM VII SV-2

AR301839

0000

RIC
08/06/90 14:01:00
SAMPLE: SSTD50 50NG BNA STD
COND.: INST 5100M
RANGE: G 1,2450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: ME 02 #1
CALI: M080602 #2
SCANS 290 TO 1245
OUT OF 290 TO 2200



AR301840

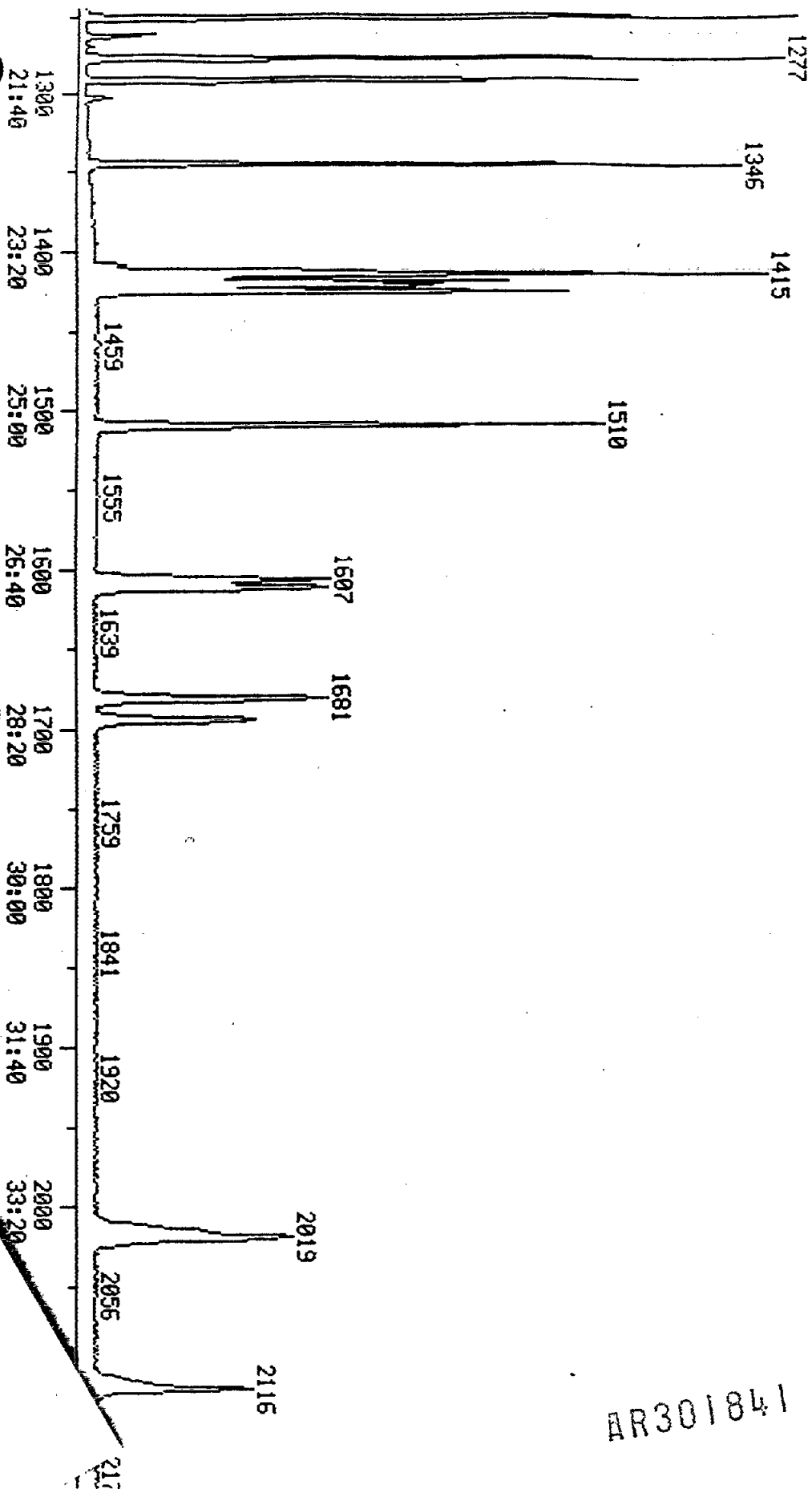
080

100.0

RIC
 08/06/90 14:01:00
 SAMPLE: 5STD50 50NG BNA STD
 COND5.: INST 5100M
 RANGE: G 1,2450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
 DATA: M080602 #1
 CAL1: M080602 #2
 SCANS 1245 TO 2200
 OUT OF 290 TO 2200

34048

AR301841



090

Quantitation Report File: M080602

Data: M080602.TI

08/06/90 14:01:00

Sample: SSTD50 50NG BNA STD

Conds.: INST 5100M

Formula: M080601

Instrument: 5100M

Weight: 0.013

Submitted by: 080690

Analyst: SLN

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
1	C130 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	

AR301842

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	443	7:23	1	1.000	A BB	37714.	40.000 NG	1.06
2	94	398	6:38	1	0.898	A BV	103932.	50.000 NG	1.32
3	93	412	6:52	1	0.930	A VV	93708.	50.000 NG	1.32
4	128	420	7:00	1	0.948	A BB	68189.	50.000 NG	1.32
5	146	439	7:19	1	0.991	A BV	73274.	50.000 NG	1.32
6	146	445	7:25	1	1.005	A VB	75562.	50.000 NG	1.32
7	108	461	7:41	1	1.041	A BV	49835.	50.000 NG	1.32
8	146	470	7:50	1	1.061	A BB	72060.	50.000 NG	1.32
9	108	475	7:55	1	1.072	A VB	74167.	50.000 NG	1.32
10	45	482	8:02	1	1.088	A BB	165341.	50.000 NG	1.32
11	108	494	8:14	1	1.115	A BB	76678.	50.000 NG	1.32
12	70	501	8:21	1	1.131	A BB	71534.	50.000 NG	1.32
13	117	511	8:31	1	1.153	A BB	36107.	50.000 NG	1.32
14	99	396	6:36	1	0.894	A BB	105156.	50.000 NG	1.32
15	112	297	4:57	1	0.670	A BB	78776.	50.000 NG	1.32
16	136	619	10:19	16	1.000	A BB	156378.	40.000 NG	1.06
17	77	522	8:42	16	0.843	A BB	94648.	50.000 NG	1.32
18	82	554	9:14	16	0.895	A BB	183970.	50.000 NG	1.32
19	139	567	9:27	16	0.916	A BB	39118.	50.000 NG	1.32
20	107	569	9:29	16	0.919	A BB	62434.	50.000 NG	1.32
21	122	580	9:40	16	0.937	A VB	43285.	50.000 NG	1.32
22	93	584	9:44	16	0.943	A BB	121850.	50.000 NG	1.32
23	162	598	9:58	16	0.966	A BB	51951.	50.000 NG	1.32
24	180	613	10:13	16	0.990	A BB	53527.	50.000 NG	1.32
25	128	622	10:22	16	1.005	A BB	204058.	50.000 NG	1.32
26	127	631	10:31	16	1.019	A BB	99316.	50.000 NG	1.32
27	225	648	10:48	16	1.047	A BB	22853.	50.000 NG	1.32
28	107	700	11:40	16	1.131	A BB	70622.	50.000 NG	1.32
29	142	724	12:04	16	1.170	A BB	136853.	50.000 NG	1.32
30	82	520	8:40	16	0.840	A BB	113585.	50.000 NG	1.32
31	164	886	14:46	31	1.000	A BB	83721.	40.000 NG	1.06
32	237	758	12:38	31	0.856	A BB	22825.	50.000 NG	1.32
33	196	769	12:49	31	0.868	A BV	32396.	50.000 NG	1.32
34	196	774	12:54	31	0.874	A VB	33668.	50.000 NG	1.32
35	162	797	13:17	31	0.900	A BB	117903.	50.000 NG	1.32
36	65	816	13:36	31	0.921	A BB	66691.	50.000 NG	1.32
37	163	848	14:08	31	0.957	A BB	126029.	50.000 NG	1.32
38	152	862	14:22	31	0.973	A BB	200027.	50.000 NG	1.32
39	138	880	14:40	31	0.993	A BB	46738.	50.000 NG	1.32
40	153	891	14:51	31	1.006	A BB	122221.	50.000 NG	1.32
41	184	895	14:55	31	1.010	A BB	18136.	50.000 NG	1.32
42	109	902	15:02	31	1.018	A BB	13589.	50.000 NG	1.32
43	168	915	15:15	31	1.033	A BB	170182.	50.000 NG	1.32
44	165	919	15:19	31	1.037	A BB	44521.	50.000 NG	1.32
45	165	859	14:19	31	0.970	A BB	33756.	50.000 NG	1.32
46	149	957	15:57	31	1.080	A BB	139326.	50.000 NG	1.32
47	204	967	16:07	31	1.091	A BB	48201.	50.000 NG	1.32
48	166	968	16:08	31	1.093	A BB	127043.	50.000 NG	1.32
49	138	975	16:15	31	1.100	A VB	39225.	50.000 NG	1.32
50	172	782	13:02	31	0.883	A BB	131070.	50.000 NG	1.32

AR301843

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:23	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:38	1.00	0.898	1.00	50.00	50.00	2.205	2.205	1.00
3	6:52	1.00	0.930	1.00	50.00	50.00	1.988	1.988	1.00
4	7:00	1.00	0.948	1.00	50.00	50.00	1.446	1.446	1.00
5	7:19	1.00	0.991	1.00	50.00	50.00	1.554	1.554	1.00
6	7:25	1.00	1.005	1.00	50.00	50.00	1.603	1.603	1.00
7	7:41	1.00	1.041	1.00	50.00	50.00	1.057	1.057	1.00
8	7:50	1.00	1.061	1.00	50.00	50.00	1.529	1.529	1.00
9	7:55	1.00	1.072	1.00	50.00	50.00	1.573	1.573	1.00
10	8:02	1.00	1.088	1.00	50.00	50.00	3.507	3.507	1.00
11	8:14	1.00	1.115	1.00	50.00	50.00	1.627	1.627	1.00
12	8:21	1.00	1.131	1.00	50.00	50.00	1.517	1.517	1.00
13	8:31	1.00	1.153	1.00	50.00	50.00	0.766	0.766	1.00
14	6:36	1.00	0.894	1.00	50.00	50.00	2.231	2.231	1.00
15	4:57	1.00	0.670	1.00	50.00	50.00	1.671	1.671	1.00
16	10:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:42	1.00	0.843	1.00	50.00	50.00	0.484	0.484	1.00
18	9:14	1.00	0.895	1.00	50.00	50.00	0.941	0.941	1.00
19	9:27	1.00	0.916	1.00	50.00	50.00	0.200	0.200	1.00
20	9:29	1.00	0.919	1.00	50.00	50.00	0.319	0.319	1.00
21	9:40	1.00	0.937	1.00	50.00	50.00	0.221	0.221	1.00
22	9:44	1.00	0.943	1.00	50.00	50.00	0.623	0.623	1.00
23	9:58	1.00	0.966	1.00	50.00	50.00	0.266	0.266	1.00
24	10:13	1.00	0.990	1.00	50.00	50.00	0.274	0.274	1.00
25	10:22	1.00	1.005	1.00	50.00	50.00	1.044	1.044	1.00
26	10:31	1.00	1.019	1.00	50.00	50.00	0.508	0.508	1.00
27	10:48	1.00	1.047	1.00	50.00	50.00	0.117	0.117	1.00
28	11:40	1.00	1.131	1.00	50.00	50.00	0.361	0.361	1.00
29	12:04	1.00	1.170	1.00	50.00	50.00	0.700	0.700	1.00
30	8:40	1.00	0.840	1.00	50.00	50.00	0.581	0.581	1.00
31	14:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:38	1.00	0.856	1.00	50.00	50.00	0.218	0.218	1.00
33	12:49	1.00	0.868	1.00	50.00	50.00	0.310	0.310	1.00
34	12:54	1.00	0.874	1.00	50.00	50.00	0.322	0.322	1.00
35	13:17	1.00	0.900	1.00	50.00	50.00	1.127	1.127	1.00
36	13:36	1.00	0.921	1.00	50.00	50.00	0.637	0.637	1.00
37	14:08	1.00	0.957	1.00	50.00	50.00	1.204	1.204	1.00
38	14:22	1.00	0.973	1.00	50.00	50.00	1.911	1.911	1.00
39	14:40	1.00	0.993	1.00	50.00	50.00	0.447	0.447	1.00
40	14:51	1.00	1.006	1.00	50.00	50.00	1.168	1.168	1.00
41	14:55	1.00	1.010	1.00	50.00	50.00	0.173	0.173	1.00
42	15:02	1.00	1.018	1.00	50.00	50.00	0.130	0.130	1.00
43	15:15	1.00	1.033	1.00	50.00	50.00	1.626	1.626	1.00
44	15:19	1.00	1.037	1.00	50.00	50.00	0.425	0.425	1.00
45	14:19	1.00	0.970	1.00	50.00	50.00	0.323	0.323	1.00
46	15:57	1.00	1.080	1.00	50.00	50.00	1.331	1.331	1.00
47	16:07	1.00	1.091	1.00	50.00	50.00	0.461	0.461	1.00
48	16:08	1.00	1.093	1.00	50.00	50.00	1.214	1.214	1.00
49	16:15	1.00	1.100	1.00	50.00	50.00	0.375	0.375	1.00
50	13:02	1.00	0.883	1.00	50.00	50.00	1.252	1.252	1.00

AR301844

093

Quantitation Report File: M080602

Data: M080602.TI

08/06/90 14:01:00

Sample: SSTD50 50NG BNA STD

Conds.: INST 5100M

Formula: M080601

Submitted by: 080690

Instrument: 5100M

Analyst: SLN

Weight: 0.013

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLEETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHEHYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	1008	16:48	31	1.138	A BB	12829.	50.000 NG	1.32
52	188	1106	18:26	52	1.000	A BV	130494.	40.000 NG	1.06
53	198	981	16:21	52	0.887	A BB	21340.	50.000 NG	1.32
54	169	986	16:26	52	0.892	A BB	95255.	50.000 NG	1.32
55	248	1042	17:22	52	0.942	A BB	27722.	50.000 NG	1.32
56	284	1065	17:45	52	0.963	A BB	26699.	50.000 NG	1.32
57	266	1088	18:08	52	0.984	A BB	18604.	50.000 NG	1.32
58	178	1109	18:29	52	1.003	A BV	177742.	50.000 NG	1.32
59	178	1115	18:35	52	1.008	A VB	179359.	50.000 NG	1.32
60	149	1178	19:38	52	1.065	A BV	219255.	50.000 NG	1.32
61	202	1251	20:51	52	1.131	A BB	152680.	50.000 NG	1.32
62	240	1422	23:42	62	1.000	A BB	72000.	40.000 NG	1.06
63	202	1277	21:17	62	0.898	A BB	156068.	50.000 NG	1.32
64	149	1346	22:26	62	0.947	A BB	86872.	50.000 NG	1.32
65	252	1413	23:33	62	0.994	A BB	27113.	50.000 NG	1.32
66	228	1420	23:40	62	0.999	A BV	104448.	50.000 NG	1.32

AR30

AR301845

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	149	1415	23:35	62	0.995	A BV	128742.	50.000 NG	1.32
68	228	1426	23:46	62	1.003	A VB	98273.	50.000 NG	1.32
69	244	1291	21:31	62	0.908	A BB	87407.	50.000 NG	1.32
70	264	1694	28:14	70	1.000	A BB	63337.	40.000 NG	1.06
71	149	1510	25:10	70	0.891	A BB	204628.	50.000 NG	1.32
72	252	1607	26:47	70	0.949	A BV	88504.	50.000 NG	1.32
73	252	1611	26:51	70	0.951	A VB	82491.	50.000 NG	1.32
74	252	1681	28:01	70	0.992	A BB	83329.	50.000 NG	1.32
75	276	2018	33:38	70	1.191	A BB	86361.	50.000 NG	1.32
76	278	2019	33:39	70	1.192	A BB	68906.	50.000 NG	1.32
77	276	2116	35:16	70	1.249	A BB	73225.	50.000 NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:48	1.00	1.138	1.00	50.00	50.00	0.123	0.123	1.00
52	18:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	16:21	1.00	0.887	1.00	50.00	50.00	0.131	0.131	1.00
54	16:26	1.00	0.892	1.00	50.00	50.00	0.584	0.584	1.00
55	17:22	1.00	0.942	1.00	50.00	50.00	0.170	0.170	1.00
56	17:45	1.00	0.963	1.00	50.00	50.00	0.164	0.164	1.00
57	18:08	1.00	0.984	1.00	50.00	50.00	0.114	0.114	1.00
58	18:29	1.00	1.003	1.00	50.00	50.00	1.090	1.090	1.00
59	18:35	1.00	1.008	1.00	50.00	50.00	1.100	1.100	1.00
60	19:38	1.00	1.065	1.00	50.00	50.00	1.344	1.344	1.00
61	20:51	1.00	1.131	1.00	50.00	50.00	0.936	0.936	1.00
62	23:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	21:17	1.00	0.898	1.00	50.00	50.00	1.734	1.734	1.00
64	22:26	1.00	0.947	1.00	50.00	50.00	0.965	0.965	1.00
65	23:33	1.00	0.994	1.00	50.00	50.00	0.301	0.301	1.00
66	23:40	1.00	0.999	1.00	50.00	50.00	1.161	1.161	1.00
67	23:35	1.00	0.995	1.00	50.00	50.00	1.430	1.430	1.00
68	23:46	1.00	1.003	1.00	50.00	50.00	1.092	1.092	1.00
69	21:31	1.00	0.908	1.00	50.00	50.00	0.971	0.971	1.00
70	28:14	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	25:10	1.00	0.891	1.00	50.00	50.00	2.585	2.585	1.00
72	26:47	1.00	0.949	1.00	50.00	50.00	1.118	1.118	1.00
73	26:51	1.00	0.951	1.00	50.00	50.00	1.042	1.042	1.00
74	28:01	1.00	0.992	1.00	50.00	50.00	1.053	1.053	1.00
75	33:38	1.00	1.191	1.00	50.00	50.00	1.091	1.091	1.00
76	33:39	1.00	1.192	1.00	50.00	50.00	0.870	0.870	1.00
77	35:16	1.00	1.249	1.00	50.00	50.00	0.925	0.925	1.00

AR301846

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

095

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100SP

Calibration Date(s): 08/07/90 08/07/90

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF20 = <u>S080708</u>		RRF50 = <u>S080704</u>				
RRF80 = <u>S080705</u>		RRF120= <u>S080706</u>		RRF160= <u>S080707</u>				
COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol	*	1.545	1.480	1.417	1.380	1.398	1.444	4.7*
bis(2-Chloroethyl)ether		1.304	1.397	1.438	1.291	1.251	1.336	5.8
2-Chlorophenol		1.302	1.235	1.303	1.195	1.189	1.245	4.5
1,3-Dichlorobenzene		1.533	1.380	1.446	1.299	1.255	1.383	8.1
1,4-Dichlorobenzene	*	1.624	1.520	1.547	1.384	1.304	1.476	8.8*
Benzyl alcohol		0.658	0.713	0.794	0.747	0.752	0.733	6.9
1,2-Dichlorobenzene		1.492	1.427	1.501	1.316	1.258	1.399	7.7
2-Methylphenol		1.198	1.207	1.289	1.196	1.160	1.210	3.9
bis(2-Chloroisopropyl)ether		1.474	1.371	1.525	1.654	1.697	1.544	8.6
4-Methylphenol		1.145	1.174	1.287	1.240	1.209	1.211	4.6
N-Nitroso-Di-n-propylamine	#	0.869	0.840	0.964	0.966	0.970	0.922	6.8#
Hexachloroethane		0.710	0.686	0.701	0.604	0.586	0.657	8.8
Nitrobenzene		0.405	0.362	0.348	0.387	0.387	0.378	6.0
Isophorone		0.742	0.665	0.672	0.724	0.720	0.705	4.8
2-Nitrophenol	*	0.243	0.227	0.212	0.214	0.212	0.222	6.1*
2,4-Dimethylphenol		0.374	0.340	0.339	0.366	0.365	0.357	4.5
Benzoic acid			0.152	0.230	0.241	0.254	0.219	20.9
bis(2-Chloroethoxy)methane		0.452	0.429	0.467	0.487	0.471	0.461	4.7
2,4-Dichlorophenol	*	0.318	0.278	0.286	0.310	0.310	0.300	5.8*
1,2,4-Trichlorobenzene		0.365	0.330	0.316	0.320	0.313	0.329	6.5
Naphthalene		1.177	1.020	1.032	0.920	0.799	0.990	14.2
4-Chloroaniline		0.416	0.339	0.419	0.460	0.450	0.417	11.4
Hexachlorobutadiene	*	0.193	0.193	0.182	0.170	0.172	0.182	6.1*
4-Chloro-3-methylphenol	*	0.304	0.285	0.291	0.286	0.305	0.294	3.3*
2-Methylnaphthalene		0.708	0.688	0.676	0.647	0.580	0.660	7.5
Hexachlorocyclopentadiene	#	0.225	0.208	0.233	0.199	0.197	0.212	7.5#
2,4,6-Trichlorophenol	*	0.352	0.335	0.328	0.285	0.272	0.314	10.9*
2,4,5-Trichlorophenol			0.335	0.333	0.320	0.312	0.325	3.4
2-Chloronaphthalene		1.175	1.053	0.995	0.976	0.885	1.017	10.5
2-Nitroaniline			0.292	0.305	0.339	0.334	0.317	7.1
Dimethylphthalate		1.100	1.277	1.257	1.041	0.951	1.125	12.5
Acenaphthylene		1.871	1.662	1.610	1.422	1.213	1.556	16.0
2,6-Dinitrotoluene		0.299	0.340	0.328	0.272	0.255	0.299	12.1
3-Nitroaniline			0.222	0.234	0.299	0.298	0.263	15.6
Acenaphthene	*	1.242	0.970	1.067	1.031	0.920	1.046	11.8*
2,4-Dinitrophenol	#		0.130	0.191	0.204	0.211	0.184	20.1#
4-Nitrophenol	#		0.142	0.181	0.182	0.182	0.173	11.8#

AR301847

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

096

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100SP

Calibration Date(s): 08/07/90 08/07/90

Min $\overline{RRF}$ for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF20 = <u>S080708</u>		RRF50 = <u>S080704</u>			
RRF80 = <u>S080705</u>		RRF120 = <u>S080706</u>		RRF160 = <u>S080707</u>			
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.558	1.539	1.463	1.307	1.174	1.408	11.7
2,4-Dinitrotoluene	0.372	0.357	0.387	0.380	0.369	0.373	3.1
Diethylphthalate	1.113	1.237	1.283	1.122	1.064	1.164	7.9
4-Chlorophenyl-phenylether	0.523	0.618	0.622	0.571	0.550	0.577	7.5
Fluorene	1.274	1.207	1.248	1.187	1.041	1.191	7.6
4-Nitroaniline		0.136	0.224	0.283	0.314	0.239	32.7
4,6-Dinitro-2-methylphenol		0.110	0.114	0.148	0.158	0.132	18.2
N-Nitrosodiphenylamine (1)	* 0.561	0.340	0.373	0.541	0.507	0.464	21.8*
4-Bromophenyl-phenylether	0.166	0.199	0.192	0.186	0.182	0.185	6.7
Hexachlorobenzene	0.222	0.241	0.242	0.239	0.218	0.232	4.9
Pentachlorophenol	*	0.136	0.151	0.147	0.137	0.143	5.2*
Phenanthrene	1.203	0.849	0.819	0.901	0.837	0.922	17.4
Anthracene	1.348	0.839	0.920	1.038	0.896	1.008	20.0
Di-n-Butylphthalate	1.485	1.025	1.093	1.148	0.912	1.133	19.0
Fluoranthene	* 1.216	0.856	0.879	0.932	0.809	0.938	17.2*
Pyrene	1.178	1.246	0.866	0.757	0.628	0.935	28.6
Butylbenzylphthalate	0.650	0.736	0.590	0.562	0.477	0.603	16.1
3,3'-Dichlorobenzidine	0.272	0.221	0.275	0.341	0.317	0.285	16.2
Benzo(a)anthracene	1.353	1.197	1.057	0.947	0.761	1.063	21.4
Chrysene	1.319	1.165	0.928	0.881	0.680	0.995	25.2
bis(2-Ethylhexyl)phthalate	0.949	1.014	0.868	0.740	0.592	0.833	20.3
Di-n-Octyl phthalate	* 1.904	2.038	1.522	1.330	1.141	1.587	23.9*
Benzo(b)fluoranthene	1.384	1.360	1.212	1.255	1.156	1.273	7.6
Benzo(k)fluoranthene	1.282	1.340	1.121	0.956	0.904	1.121	17.2
Benzo(a)pyrene	* 1.147	1.212	1.080	1.096	1.052	1.117	5.7*
Indeno(1,2,3-cd)pyrene	1.070	0.942	1.002	1.120	1.250	1.077	11.0
Dibenzo(a,h)anthracene	0.842	0.742	0.797	0.908	0.961	0.850	10.2
Benzo(g,h,i)perylene	0.919	0.819	0.850	0.940	1.031	0.912	9.1
=====							
Nitrobenzene-d5	0.486	0.453	0.447	0.494	0.502	0.476	5.2
2-Fluorobiphenyl	1.402	1.313	1.248	1.169	1.046	1.236	11.0
p-Terphenyl-d14	0.797	0.929	0.700	0.650	0.520	0.719	21.4
Phenol-d5	1.661	1.493	1.634	1.565	1.585	1.588	4.1
2-Fluorophenol	1.401	1.235	1.324	1.272	1.302	1.307	4.8
2,4,6-Tribromophenol	0.119	0.204	0.193	0.147	0.147	0.162	21.9

(1) Cannot be separated from Diphenylamine

FORM VI SV-2

01/89

AR301848

68
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

097

Lab Name: Roy F. Weston, Inc. Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE RFW Lot: 9008L253

Instrument ID: 5100SP Calibration Date(s): 08/07/90 08/07/90

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:	RRF20 = <u>S080713</u>	RRF50 = <u>S080709</u>
RRF80 = <u>S080710</u>	RRF120 = <u>S080711</u>	RRF160 = <u>S080712</u>

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
1,2,3-Trichlorobenzene	0.351	0.356	0.369	0.373	0.364	0.363	2.5
1,3,5-Trichlorobenzene	0.337	0.333	0.354	0.359	0.352	0.347	3.3
1,2,4,5-Tetrachlorobenzene	0.654	0.634	0.645	0.650	0.673	0.651	2.2
1,2,3,4-Tetrachlorobenzene	0.477	0.485	0.510	0.510	0.515	0.499	3.4
Pentachlorobenzene	0.164	0.193	0.188	0.187	0.188	0.184	6.2
1-Chloro-3-nitrobenzene	0.128	0.166	0.167	0.179	0.173	0.163	12.3

FORM VI SV-2

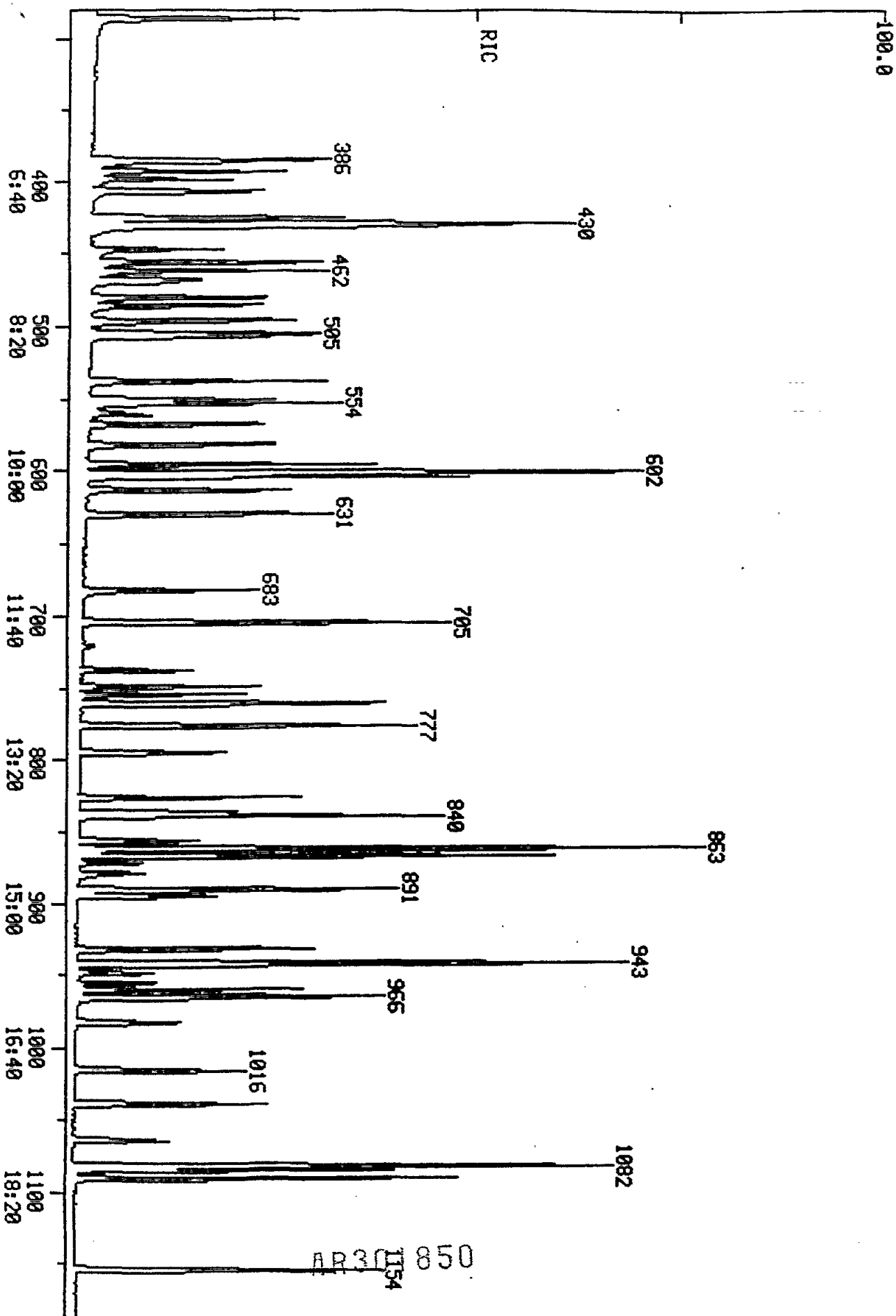
01/89 Rev.

AR301849

098

RIC
 08/07/90 14:24:00
 SAMPLE: 551020 20 NG BNA STD
 COND.: INSTR 5100SP
 RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080708 #1
 CALI: 5080708 #2
 SCANS 280 TO 1190
 OUT OF 280 TO 2100

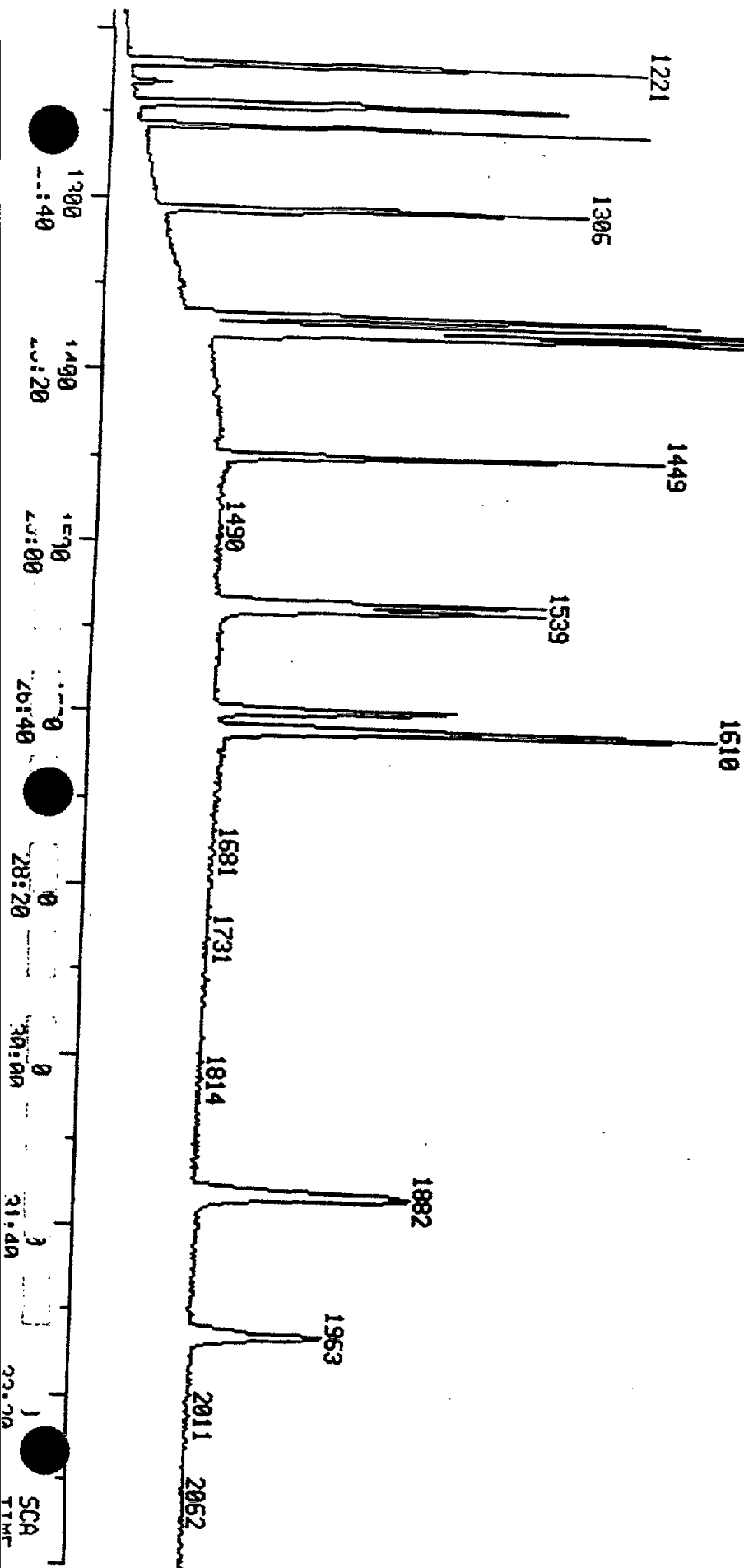


099

RIC
08/07/90 14:24:00
SAMPLE: SST020 20 NG BNA STD
CONDS.: INSTR 5100SP
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080708 #1
CALI: 5080708 #2
SCANS 1190 TO 2100
OUT OF 280 TO 2100

176384.



AR301851

Data: S080708.T1

08/07/90 14:24:00

Sample: SSTD20 20 NG BNA STD

Conds.: INSTR 5100SP

Formula: S080701

Submitted by: 080790

Instrument: 5100SP

Analyst: BKR

Weight: 0.005

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-DB	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301852

Name
 C590 FLUORENE
 C595 4-NITROANILINE
 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	430	7:10	1	1.000	A BB	39589.	40.000 NG	2.41
	94	387	6:27	1	0.900	A BV	30578.	20.000 NG	1.20
	93	399	6:39	1	0.928	A VB	25815.	20.000 NG	1.20
4	128	407	6:47	1	0.947	A BB	25770.	20.000 NG	1.20
	146	426	7:06	1	0.991	A BV	30348.	20.000 NG	1.20
	146	432	7:12	1	1.005	A VB	32139.	20.000 NG	1.20
7	108	447	7:27	1	1.040	A BV	13026.	20.000 NG	1.20
	146	456	7:36	1	1.060	A BB	29535.	20.000 NG	1.20
	108	462	7:42	1	1.074	A VB	23718.	20.000 NG	1.20
10	45	469	7:49	1	1.091	A BB	29182.	20.000 NG	1.20
11	108	480	8:00	1	1.116	A BB	22655.	20.000 NG	1.20
	70	486	8:06	1	1.130	A BB	17198.	20.000 NG	1.20
	117	497	8:17	1	1.156	A BB	14060.	20.000 NG	1.20
14	99	385	6:25	1	0.895	A BB	32871.	20.000 NG	1.20
	112	287	4:47	1	0.667	A BB	27728.	20.000 NG	1.20
	136	602	10:02	16	1.000	A BB	137738.	40.000 NG	2.41
17	77	507	8:27	16	0.842	A BB	27863.	20.000 NG	1.20
18	82	538	8:58	16	0.894	A BB	51099.	20.000 NG	1.20
	139	551	9:11	16	0.915	A BB	16717.	20.000 NG	1.20
20	107	554	9:14	16	0.920	A BB	25755.	20.000 NG	1.20
21	122	562	9:22	16	0.934	A VB	8353.	20.000 NG	1.20
	93	569	9:29	16	0.945	A BB	31100.	20.000 NG	1.20
	162	582	9:42	16	0.967	A BB	21880.	20.000 NG	1.20
24	180	596	9:56	16	0.990	A BB	25128.	20.000 NG	1.20
	128	605	10:05	16	1.005	A BB	81055.	20.000 NG	1.20
	127	614	10:14	16	1.020	A BB	28627.	20.000 NG	1.20
27	225	631	10:31	16	1.048	A BB	13290.	20.000 NG	1.20
28	107	683	11:23	16	1.135	A BB	20914.	20.000 NG	1.20
	142	705	11:45	16	1.171	A BB	48745.	20.000 NG	1.20
30	82	505	8:25	16	0.839	A BB	33468.	20.000 NG	1.20
31	164	863	14:23	31	1.000	A BB	74826.	40.000 NG	2.41
	237	738	12:18	31	0.855	A BB	8432.	20.000 NG	1.20
	196	749	12:29	31	0.868	A BB	13163.	20.000 NG	1.20
34	196	755	12:35	31	0.875	A BB	11735.	20.000 NG	1.20
35	162	777	12:57	31	0.900	A BB	43965.	20.000 NG	1.20
	65	795	13:15	31	0.921	A BB	11255.	20.000 NG	1.20
37	163	827	13:47	31	0.958	A BB	41158.	20.000 NG	1.20
38	152	840	14:00	31	0.973	A BB	69999.	20.000 NG	1.20
	138	857	14:17	31	0.993	A BB	10541.	20.000 NG	1.20
40	153	868	14:28	31	1.006	A BB	46470.	20.000 NG	1.20
41	184	872	14:32	31	1.010	A BB	4822.	20.000 NG	1.20
	109	880	14:40	31	1.020	A BB	4917.	20.000 NG	1.20
	168	891	14:51	31	1.032	A BB	58275.	20.000 NG	1.20
44	165	895	14:55	31	1.037	A BB	13914.	20.000 NG	1.20
45	165	837	13:57	31	0.970	A BB	11197.	20.000 NG	1.20
	149	933	15:33	31	1.081	A BB	41650.	20.000 NG	1.20
47	204	942	15:42	31	1.092	A BB	19566.	20.000 NG	1.20
	166	943	15:43	31	1.093	A BB	47654.	20.000 NG	1.20
	138	949	15:49	31	1.100	A BB	7466.	20.000 NG	1.20
50	172	761	12:41	31	0.882	A BB	52465.	20.000 NG	1.20

AR301853

102

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:27	1.00	0.900	1.00	20.00	20.00	1.545	1.545	1.00
3	6:39	1.00	0.928	1.00	20.00	20.00	1.304	1.304	1.00
4	6:47	1.00	0.947	1.00	20.00	20.00	1.302	1.302	1.00
5	7:06	1.00	0.991	1.00	20.00	20.00	1.533	1.533	1.00
6	7:12	1.00	1.005	1.00	20.00	20.00	1.624	1.624	1.00
7	7:27	1.00	1.040	1.00	20.00	20.00	0.658	0.658	1.00
8	7:36	1.00	1.060	1.00	20.00	20.00	1.492	1.492	1.00
9	7:42	1.00	1.074	1.00	20.00	20.00	1.198	1.198	1.00
10	7:49	1.00	1.091	1.00	20.00	20.00	1.474	1.474	1.00
11	8:00	1.00	1.116	1.00	20.00	20.00	1.145	1.145	1.00
12	8:06	1.00	1.130	1.00	20.00	20.00	0.869	0.869	1.00
13	8:17	1.00	1.156	1.00	20.00	20.00	0.710	0.710	1.00
14	6:25	1.00	0.895	1.00	20.00	20.00	1.661	1.661	1.00
15	4:47	1.00	0.667	1.00	20.00	20.00	1.401	1.401	1.00
16	10:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:27	1.00	0.842	1.00	20.00	20.00	0.405	0.405	1.00
18	8:58	1.00	0.894	1.00	20.00	20.00	0.742	0.742	1.00
19	9:11	1.00	0.915	1.00	20.00	20.00	0.243	0.243	1.00
20	9:14	1.00	0.920	1.00	20.00	20.00	0.374	0.374	1.00
21	9:22	1.00	0.934	1.00	20.00	20.00	0.121	0.121	1.00
22	9:29	1.00	0.945	1.00	20.00	20.00	0.452	0.452	1.00
23	9:42	1.00	0.967	1.00	20.00	20.00	0.318	0.318	1.00
24	9:56	1.00	0.990	1.00	20.00	20.00	0.365	0.365	1.00
25	10:05	1.00	1.005	1.00	20.00	20.00	1.177	1.177	1.00
26	10:14	1.00	1.020	1.00	20.00	20.00	0.416	0.416	1.00
27	10:31	1.00	1.048	1.00	20.00	20.00	0.193	0.193	1.00
28	11:23	1.00	1.135	1.00	20.00	20.00	0.304	0.304	1.00
29	11:45	1.00	1.171	1.00	20.00	20.00	0.708	0.708	1.00
30	8:25	1.00	0.839	1.00	20.00	20.00	0.486	0.486	1.00
31	14:23	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:18	1.00	0.855	1.00	20.00	20.00	0.225	0.225	1.00
33	12:29	1.00	0.868	1.00	20.00	20.00	0.352	0.352	1.00
34	12:35	1.00	0.875	1.00	20.00	20.00	0.314	0.314	1.00
35	12:57	1.00	0.900	1.00	20.00	20.00	1.175	1.175	1.00
36	13:15	1.00	0.921	1.00	20.00	20.00	0.301	0.301	1.00
37	13:47	1.00	0.958	1.00	20.00	20.00	1.100	1.100	1.00
38	14:00	1.00	0.973	1.00	20.00	20.00	1.871	1.871	1.00
39	14:17	1.00	0.993	1.00	20.00	20.00	0.282	0.282	1.00
40	14:28	1.00	1.006	1.00	20.00	20.00	1.242	1.242	1.00
41	14:32	1.00	1.010	1.00	20.00	20.00	0.129	0.129	1.00
42	14:40	1.00	1.020	1.00	20.00	20.00	0.131	0.131	1.00
43	14:51	1.00	1.032	1.00	20.00	20.00	1.558	1.558	1.00
44	14:55	1.00	1.037	1.00	20.00	20.00	0.372	0.372	1.00
45	13:57	1.00	0.970	1.00	20.00	20.00	0.299	0.299	1.00
46	15:33	1.00	1.081	1.00	20.00	20.00	1.113	1.113	1.00
47	15:42	1.00	1.092	1.00	20.00	20.00	0.523	0.523	1.00
48	15:43	1.00	1.093	1.00	20.00	20.00	1.274	1.274	1.00
49	15:49	1.00	1.100	1.00	20.00	20.00	0.200	0.200	1.00
50	12:41	1.00	0.882	1.00	20.00	20.00	1.402	1.402	1.00

AR301854

Data: S080708.TI

8/07/90 14:24:00

Sample: SSTD20 20 NG BNA STD

Sends.: INSTR 5100SP

Formula: S080701

Submitted by: 080790

Instrument: 5100SP

Analyst: BKR

Weight: 0.005

Acct. No.: RFW

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

resp. fac. from Library Entry

No	Name	
31	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
32	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
74	C615 N-NITROSODIPHENYLAMINE	
15	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
1	C655 FLUORANTHENE	
2	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
47	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
7	C740 CHRYSENE	
CS30	P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
1	C760 DI-N-OCTYLPHTHALATE	
2	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
71	C775 BENZO(A)PYRENE	
1	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
51	330	982	16:22	31	1.138	A BB	4442.	20.000 NG	1.20
	188	1082	18:02	52	1.000	A BB	97451.	40.000 NG	2.41
	198	956	15:56	52	0.884	A BB	6221.	20.000 NG	1.20
54	169	961	16:01	52	0.888	A BB	27332.	20.000 NG	1.20
55	248	1016	16:56	52	0.939	A BB	8084.	20.000 NG	1.20
56	284	1039	17:19	52	0.960	A BB	10794.	20.000 NG	1.20
57	266	1063	17:43	52	0.982	A BB	4987.	20.000 NG	1.20
58	178	1084	18:04	52	1.002	A BV	58603.	20.000 NG	1.20
59	178	1090	18:10	52	1.007	A VB	65665.	20.000 NG	1.20
60	149	1154	19:14	52	1.067	A BB	72373.	20.000 NG	1.20
61	202	1221	20:21	52	1.128	A BB	5923	20.000 NG	1.20
62	240	1375	22:55	62	1.000	A BB	11733	20.000 NG	2.41
63	202	1244	20:44	62	0.905	A BB	6912	20.000 NG	1.20
64	149	1306	21:46	62	0.950	A BB	38158.	20.000 NG	1.20
65	252	1367	22:47	62	0.994	A BB	15944.	20.000 NG	1.20
66	228	1373	22:53	62	0.999	A BV	79365.	20.000 NG	1.20

AR301855

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No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
67	149	1369	22:49	62	0.996	A BV	55674.	20.000 NG	1.20
68	228	1379	22:59	62	1.003	A VB	77396.	20.000 NG	1.20
69	244	1257	20:57	62	0.914	A BB	46776.	20.000 NG	1.20
70	264	1610	26:50	70	1.000	A BB	97209.	40.000 NG	2.41
71	149	1449	24:09	70	0.900	A BB	92520.	20.000 NG	1.20
72	252	1535	25:35	70	0.953	A BV	67258.	20.000 NG	1.20
73	252	1539	25:39	70	0.956	A VB	62324.	20.000 NG	1.20
74	252	1598	26:38	70	0.993	A BB	55761.	20.000 NG	1.20
75	276	1880	31:20	70	1.168	A BB	51985.	20.000 NG	1.20
76	278	1883	31:23	70	1.170	A BB	40947.	20.000 NG	1.20
77	276	1963	32:43	70	1.219	A BB	44658.	20.000 NG	1.20

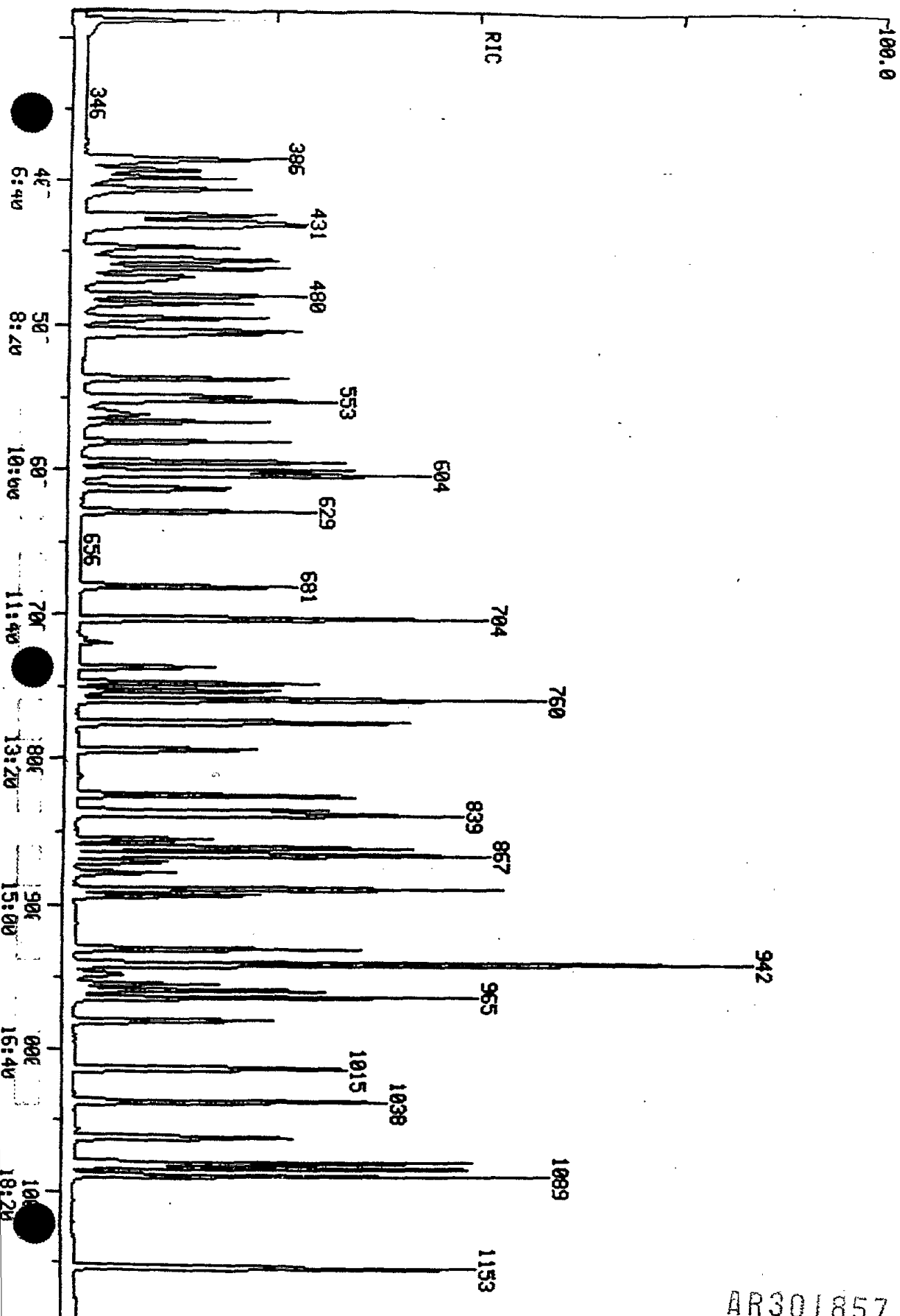
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:22	1.00	1.138	1.00	20.00	20.00	0.119	0.119	1.00
52	18:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	15:56	1.00	0.884	1.00	20.00	20.00	0.128	0.128	1.00
54	16:01	1.00	0.888	1.00	20.00	20.00	0.561	0.561	1.00
55	16:56	1.00	0.939	1.00	20.00	20.00	0.166	0.166	1.00
56	17:19	1.00	0.960	1.00	20.00	20.00	0.222	0.222	1.00
57	17:43	1.00	0.982	1.00	20.00	20.00	0.102	0.102	1.00
58	18:04	1.00	1.002	1.00	20.00	20.00	1.203	1.203	1.00
59	18:10	1.00	1.007	1.00	20.00	20.00	1.348	1.348	1.00
60	19:14	1.00	1.067	1.00	20.00	20.00	1.485	1.485	1.00
61	20:21	1.00	1.128	1.00	20.00	20.00	1.216	1.216	1.00
62	22:55	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	20:44	1.00	0.905	1.00	20.00	20.00	1.178	1.178	1.00
64	21:46	1.00	0.950	1.00	20.00	20.00	0.650	0.650	1.00
65	22:47	1.00	0.994	1.00	20.00	20.00	0.272	0.272	1.00
66	22:53	1.00	0.999	1.00	20.00	20.00	1.353	1.353	1.00
67	22:49	1.00	0.996	1.00	20.00	20.00	0.949	0.949	1.00
68	22:59	1.00	1.003	1.00	20.00	20.00	1.319	1.319	1.00
69	20:57	1.00	0.914	1.00	20.00	20.00	0.797	0.797	1.00
70	26:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	24:09	1.00	0.900	1.00	20.00	20.00	1.904	1.904	1.00
72	25:35	1.00	0.953	1.00	20.00	20.00	1.384	1.384	1.00
73	25:39	1.00	0.956	1.00	20.00	20.00	1.282	1.282	1.00
74	26:38	1.00	0.993	1.00	20.00	20.00	1.147	1.147	1.00
75	31:20	1.00	1.168	1.00	20.00	20.00	1.070	1.070	1.00
76	31:23	1.00	1.170	1.00	20.00	20.00	0.842	0.842	1.00
77	32:43	1.00	1.219	1.00	20.00	20.00	0.919	0.919	1.00

AR301856

RIC
08/07/98 11:09:00
SAMPLE: 551050 50 NG BNA STD
COND.: INSTR 5100SP
RANGE: C 1,2036 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5088704 #1
CALI: 5088704 #2

SCANS 280 TO 1190
OUT OF 280 TO 2035

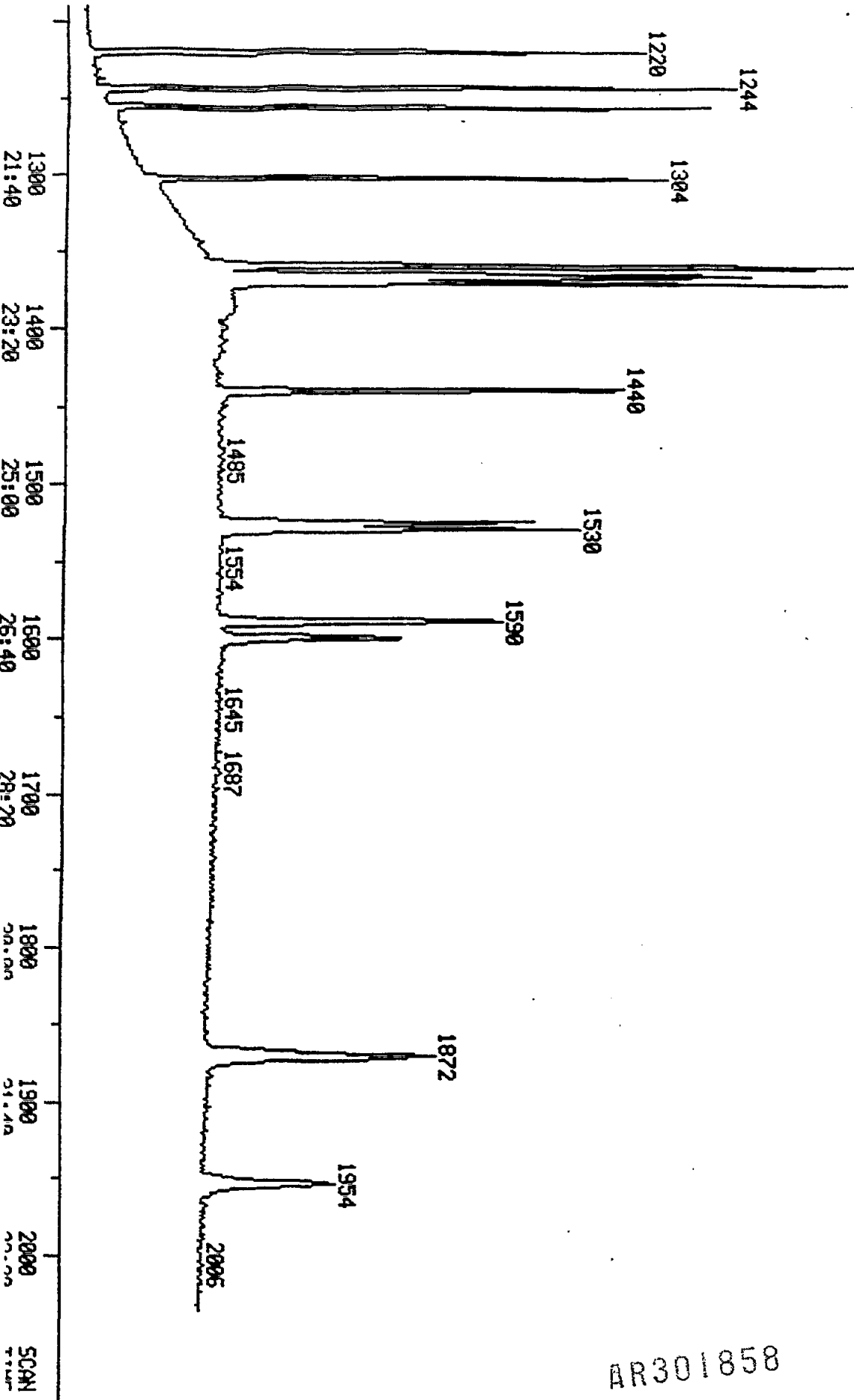


AR301857

RIC
 08/07/90 11:09:00
 SAMPLE: SSTDS0 50 NG BNA STD
 COND.: INSTR 5100SP
 RANGE: G 1,2035 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3
 DATA: 5080704 #1
 CALL: 5080704 #2
 SCANS 1190 TO 2035
 OUT OF 280 TO 2035

100.0

549888.



AR301858

Data: S080704.TI

1/07/90 11:09:00

Sample: SSTD50 50 NG BNA STD

Sds.: INSTR 5100SP

Formula: S080703

Submitted by: 080790

Instrument: 5100SP

Analyst: BKR

Weight: 0.005

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
1	C130 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
	CS45 PHENOL-D5	SURROGATE STANDARD #2
	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
15	C140 NAPHTHALENE-D8	INTERNAL STANDARD #2
	C410 NITROBENZENE	
	C415 ISOPHORONE	
	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
	C430 BENZOIC ACID	
	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
	C445 1,2,4-TRICHLOROBENZENE	
	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
	C460 HEXACHLOROBUTADIENE	
	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
	C520 2,4,5-TRICHLOROPHENOL	
	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
	C535 DIMETHYLPHTHALATE	
	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
4	C555 2,4-DINITROPHENOL	
4	C560 4-NITROPHENOL	
4	C565 DIBENZOFURAN	
	C570 2,4-DINITROTOLUENE	
4	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301859

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	429	7:09	1	1.000	A BB	51721.	40.000 NG	1.06
2	94	386	6:26	1	0.900	A BV	95693.	50.000 NG	1.32
3	93	399	6:39	1	0.930	A VB	90323.	50.000 NG	1.32
4	128	407	6:47	1	0.949	A BB	79838.	50.000 NG	1.32
5	146	425	7:05	1	0.991	A BV	89215.	50.000 NG	1.32
6	146	432	7:12	1	1.007	A VB	98272.	50.000 NG	1.32
7	108	447	7:27	1	1.042	A BV	46088.	50.000 NG	1.32
8	146	455	7:35	1	1.061	A BB	92253.	50.000 NG	1.32
9	108	461	7:41	1	1.075	A VB	78031.	50.000 NG	1.32
10	45	468	7:48	1	1.091	A BB	88668.	50.000 NG	1.32
11	108	480	8:00	1	1.119	A BB	75875.	50.000 NG	1.32
12	70	486	8:06	1	1.133	A BB	54334.	50.000 NG	1.32
13	117	496	8:16	1	1.156	A BB	44346.	50.000 NG	1.32
14	99	385	6:25	1	0.897	A BB	96513.	50.000 NG	1.32
15	112	287	4:47	1	0.669	A BB	79844.	50.000 NG	1.32
16	136	601	10:01	16	1.000	A BB	185114.	40.000 NG	1.06
17	77	506	8:26	16	0.842	A BB	83824.	50.000 NG	1.32
18	82	537	8:57	16	0.894	A BB	153882.	50.000 NG	1.32
19	139	550	9:10	16	0.915	A BB	52420.	50.000 NG	1.32
20	107	553	9:13	16	0.920	A BB	78614.	50.000 NG	1.32
21	122	563	9:23	16	0.937	A VB	35059.	50.000 NG	1.32
22	93	567	9:27	16	0.943	A BB	99358.	50.000 NG	1.32
23	162	581	9:41	16	0.967	A BB	64361.	50.000 NG	1.32
24	180	595	9:55	16	0.990	A BB	76279.	50.000 NG	1.32
25	128	604	10:04	16	1.005	A BB	236018.	50.000 NG	1.32
26	127	613	10:13	16	1.020	A BV	78468.	50.000 NG	1.32
27	225	629	10:29	16	1.047	A BB	44660.	50.000 NG	1.32
28	107	681	11:21	16	1.133	A BB	65863.	50.000 NG	1.32
29	142	704	11:44	16	1.171	A BB	159157.	50.000 NG	1.32
30	82	504	8:24	16	0.839	A BB	104810.	50.000 NG	1.32
31	164	862	14:22	31	1.000	A BB	119062.	40.000 NG	1.06
32	237	737	12:17	31	0.855	A BB	30915.	50.000 NG	1.32
33	196	748	12:28	31	0.868	A BV	49827.	50.000 NG	1.32
34	196	753	12:33	31	0.874	A VB	49845.	50.000 NG	1.32
35	162	775	12:55	31	0.899	A BB	156720.	50.000 NG	1.32
36	65	794	13:14	31	0.921	A BB	43407.	50.000 NG	1.32
37	163	826	13:46	31	0.958	A BB	190062.	50.000 NG	1.32
38	152	839	13:59	31	0.973	A BB	247344.	50.000 NG	1.32
39	138	856	14:16	31	0.993	A BB	33009.	50.000 NG	1.32
40	153	867	14:27	31	1.006	A BB	144424.	50.000 NG	1.32
41	184	871	14:31	31	1.010	A BB	19405.	50.000 NG	1.32
42	109	879	14:39	31	1.020	A BB	21183.	50.000 NG	1.32
43	168	890	14:50	31	1.032	A BB	229088.	50.000 NG	1.32
44	165	894	14:54	31	1.037	A BB	53173.	50.000 NG	1.32
45	165	836	13:56	31	0.970	A BB	50534.	50.000 NG	1.32
46	149	931	15:31	31	1.080	A BB	184101.	50.000 NG	1.32
47	204	941	15:41	31	1.092	A BB	92030	50.000 NG	1.32
48	166	942	15:42	31	1.093	A BB	179646.	50.000 NG	1.32
49	138	948	15:48	31	1.100	A VV	20308.	50.000 NG	1.32
50	172	760	12:40	31	0.882	A BB	195342.	50.000 NG	1.32

AR301860

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:26	1.00	0.900	1.00	50.00	50.00	1.480	1.480	1.00
3	6:39	1.00	0.930	1.00	50.00	50.00	1.397	1.397	1.00
4	6:47	1.00	0.949	1.00	50.00	50.00	1.235	1.235	1.00
5	7:05	1.00	0.991	1.00	50.00	50.00	1.380	1.380	1.00
6	7:12	1.00	1.007	1.00	50.00	50.00	1.520	1.520	1.00
7	7:27	1.00	1.042	1.00	50.00	50.00	0.713	0.713	1.00
8	7:35	1.00	1.061	1.00	50.00	50.00	1.427	1.427	1.00
9	7:41	1.00	1.075	1.00	50.00	50.00	1.207	1.207	1.00
10	7:48	1.00	1.091	1.00	50.00	50.00	1.371	1.371	1.00
11	8:00	1.00	1.119	1.00	50.00	50.00	1.174	1.174	1.00
12	8:06	1.00	1.133	1.00	50.00	50.00	0.840	0.840	1.00
13	8:16	1.00	1.156	1.00	50.00	50.00	0.686	0.686	1.00
14	6:25	1.00	0.897	1.00	50.00	50.00	1.493	1.493	1.00
15	4:47	1.00	0.669	1.00	50.00	50.00	1.235	1.235	1.00
16	10:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:26	1.00	0.842	1.00	50.00	50.00	0.362	0.362	1.00
18	8:57	1.00	0.894	1.00	50.00	50.00	0.665	0.665	1.00
19	9:10	1.00	0.915	1.00	50.00	50.00	0.227	0.227	1.00
20	9:13	1.00	0.920	1.00	50.00	50.00	0.340	0.340	1.00
21	9:23	1.00	0.937	1.00	50.00	50.00	0.152	0.152	1.00
22	9:27	1.00	0.943	1.00	50.00	50.00	0.429	0.429	1.00
23	9:41	1.00	0.967	1.00	50.00	50.00	0.278	0.278	1.00
24	9:55	1.00	0.990	1.00	50.00	50.00	0.330	0.330	1.00
25	10:04	1.00	1.005	1.00	50.00	50.00	1.020	1.020	1.00
26	10:13	1.00	1.020	1.00	50.00	50.00	0.339	0.339	1.00
27	10:29	1.00	1.047	1.00	50.00	50.00	0.193	0.193	1.00
28	11:21	1.00	1.133	1.00	50.00	50.00	0.285	0.285	1.00
29	11:44	1.00	1.171	1.00	50.00	50.00	0.688	0.688	1.00
30	8:24	1.00	0.839	1.00	50.00	50.00	0.453	0.453	1.00
31	14:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:17	1.00	0.855	1.00	50.00	50.00	0.208	0.208	1.00
33	12:28	1.00	0.868	1.00	50.00	50.00	0.335	0.335	1.00
34	12:33	1.00	0.874	1.00	50.00	50.00	0.335	0.335	1.00
35	12:55	1.00	0.899	1.00	50.00	50.00	1.053	1.053	1.00
36	13:14	1.00	0.921	1.00	50.00	50.00	0.292	0.292	1.00
37	13:46	1.00	0.958	1.00	50.00	50.00	1.277	1.277	1.00
38	13:59	1.00	0.973	1.00	50.00	50.00	1.662	1.662	1.00
39	14:16	1.00	0.993	1.00	50.00	50.00	0.222	0.222	1.00
40	14:27	1.00	1.006	1.00	50.00	50.00	0.970	0.970	1.00
41	14:31	1.00	1.010	1.00	50.00	50.00	0.130	0.130	1.00
42	14:39	1.00	1.020	1.00	50.00	50.00	0.142	0.142	1.00
43	14:50	1.00	1.032	1.00	50.00	50.00	1.539	1.539	1.00
44	14:54	1.00	1.037	1.00	50.00	50.00	0.357	0.357	1.00
45	13:56	1.00	0.970	1.00	50.00	50.00	0.340	0.340	1.00
46	15:31	1.00	1.080	1.00	50.00	50.00	1.237	1.237	1.00
47	15:41	1.00	1.092	1.00	50.00	50.00	0.618	0.618	1.00
48	15:42	1.00	1.093	1.00	50.00	50.00	1.207	1.207	1.00
49	15:48	1.00	1.100	1.00	50.00	50.00	0.136	0.136	1.00
50	12:40	1.00	0.882	1.00	50.00	50.00	1.313	1.313	1.00

Data: S080704.TI

08/07/90 11:09:00

Sample: SSTD50 50 NG BNA STD

Conds.: INSTR 5100SP

Formula: S080703

Submitted by: 080790

Instrument: 5100SP

Analyst: BKR

Weight: 0.005

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
51	C555 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	981	16:21	31	1.138	A BB	30331.	50.000 NG	1.32
52	188	1080	18:00	52	1.000	A BB	231861.	40.000 NG	1.06
53	198	955	15:55	52	0.884	A BB	31912.	50.000 NG	1.32
54	169	960	16:00	52	0.889	A BB	98470.	50.000 NG	1.32
55	248	1014	16:54	52	0.939	A BB	57762.	50.000 NG	1.32
56	284	1037	17:17	52	0.960	A BB	69904.	50.000 NG	1.32
57	266	1062	17:42	52	0.983	A BB	39369.	50.000 NG	1.32
58	178	1083	18:03	52	1.003	A BV	245990.	50.000 NG	1.32
59	178	1089	18:09	52	1.008	A VB	243062.	50.000 NG	1.32
60	149	1153	19:13	52	1.068	A BV	297052.	50.000 NG	1.32
61	202	1220	20:20	52	1.130	A BV	247849.	50.000 NG	1.32
62	240	1369	22:49	62	1.000	A BB	181894.	40.000 NG	1.06
63	202	1244	20:44	62	0.909	A BV	283295.	50.000 NG	1.32
64	149	1304	21:44	62	0.953	A BB	167351.	50.000 NG	1.32
65	252	1360	22:40	62	0.993	A BB	50146.	50.000 NG	1.32
66	228	1367	22:47	62	0.999	A BV	272220.	50.000 NG	1.32

AR301862

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
7	149	1361	22:41	62	0.994	A BV	230505.	50.000 NG	1.32
3	228	1372	22:52	62	1.002	A VV	264923.	50.000 NG	1.32
69	244	1256	20:56	62	0.917	A BB	211114.	50.000 NG	1.32
7	264	1600	26:40	70	1.000	A BB	133231.	40.000 NG	1.06
1	149	1440	24:00	70	0.900	A BB	339408.	50.000 NG	1.32
12	252	1526	25:26	70	0.954	A BV	226526.	50.000 NG	1.32
73	252	1530	25:30	70	0.956	A VB	223234.	50.000 NG	1.32
	252	1590	26:30	70	0.994	A BV	201790.	50.000 NG	1.32
	276	1872	31:12	70	1.170	A BB	156862.	50.000 NG	1.32
76	278	1872	31:12	70	1.170	A BB	123554.	50.000 NG	1.32
77	276	1954	32:34	70	1.221	A BB	136414.	50.000 NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:21	1.00	1.138	1.00	50.00	50.00	0.204	0.204	1.00
	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	15:55	1.00	0.884	1.00	50.00	50.00	0.110	0.110	1.00
54	16:00	1.00	0.889	1.00	50.00	50.00	0.340	0.340	1.00
	16:54	1.00	0.939	1.00	50.00	50.00	0.199	0.199	1.00
	17:17	1.00	0.960	1.00	50.00	50.00	0.241	0.241	1.00
57	17:42	1.00	0.983	1.00	50.00	50.00	0.136	0.136	1.00
	18:03	1.00	1.003	1.00	50.00	50.00	0.849	0.849	1.00
	18:09	1.00	1.008	1.00	50.00	50.00	0.839	0.839	1.00
60	19:13	1.00	1.068	1.00	50.00	50.00	1.025	1.025	1.00
61	20:20	1.00	1.130	1.00	50.00	50.00	0.856	0.856	1.00
	22:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	20:44	1.00	0.909	1.00	50.00	50.00	1.246	1.246	1.00
64	21:44	1.00	0.953	1.00	50.00	50.00	0.736	0.736	1.00
	22:40	1.00	0.993	1.00	50.00	50.00	0.221	0.221	1.00
	22:47	1.00	0.999	1.00	50.00	50.00	1.197	1.197	1.00
	22:41	1.00	0.994	1.00	50.00	50.00	1.014	1.014	1.00
	22:52	1.00	1.002	1.00	50.00	50.00	1.165	1.165	1.00
66	20:56	1.00	0.917	1.00	50.00	50.00	0.929	0.929	1.00
70	26:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	24:00	1.00	0.900	1.00	50.00	50.00	2.038	2.038	1.00
	25:26	1.00	0.954	1.00	50.00	50.00	1.360	1.360	1.00
	25:30	1.00	0.956	1.00	50.00	50.00	1.340	1.340	1.00
74	26:30	1.00	0.994	1.00	50.00	50.00	1.212	1.212	1.00
	31:12	1.00	1.170	1.00	50.00	50.00	0.942	0.942	1.00
	31:12	1.00	1.170	1.00	50.00	50.00	0.742	0.742	1.00
77	32:34	1.00	1.221	1.00	50.00	50.00	0.819	0.819	1.00

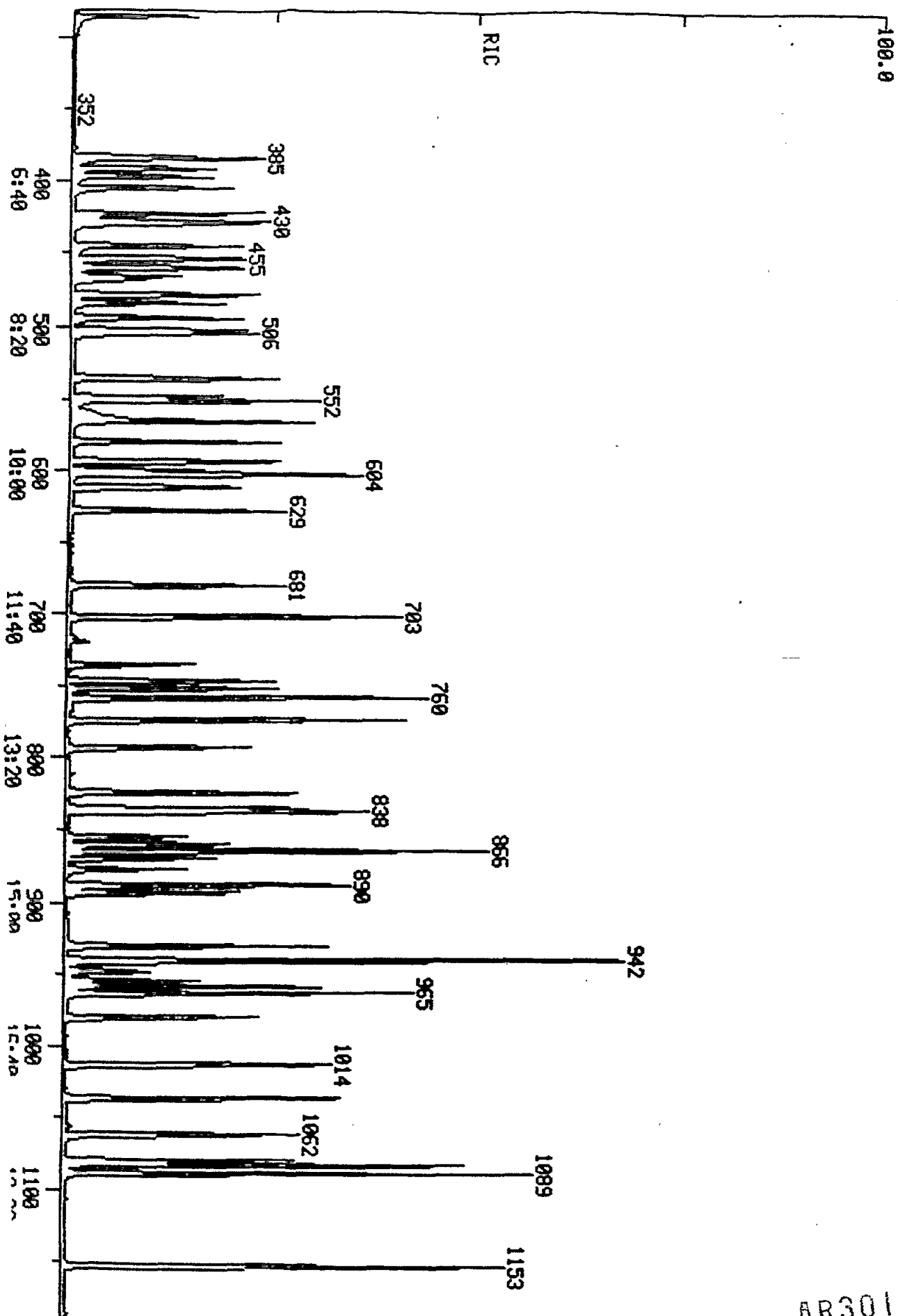
AR301863

112

RIC
 08/07/90 12:08:00
 SAMPLE: 55TD80 80 NG BNA STD
 COND.: INSTR 5100SP
 RANGE: C 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080705 #1
 CALI: 5080705 #2

SCANS 280 TO 1190
 OUT OF 280 TO 2100



AR301864

113

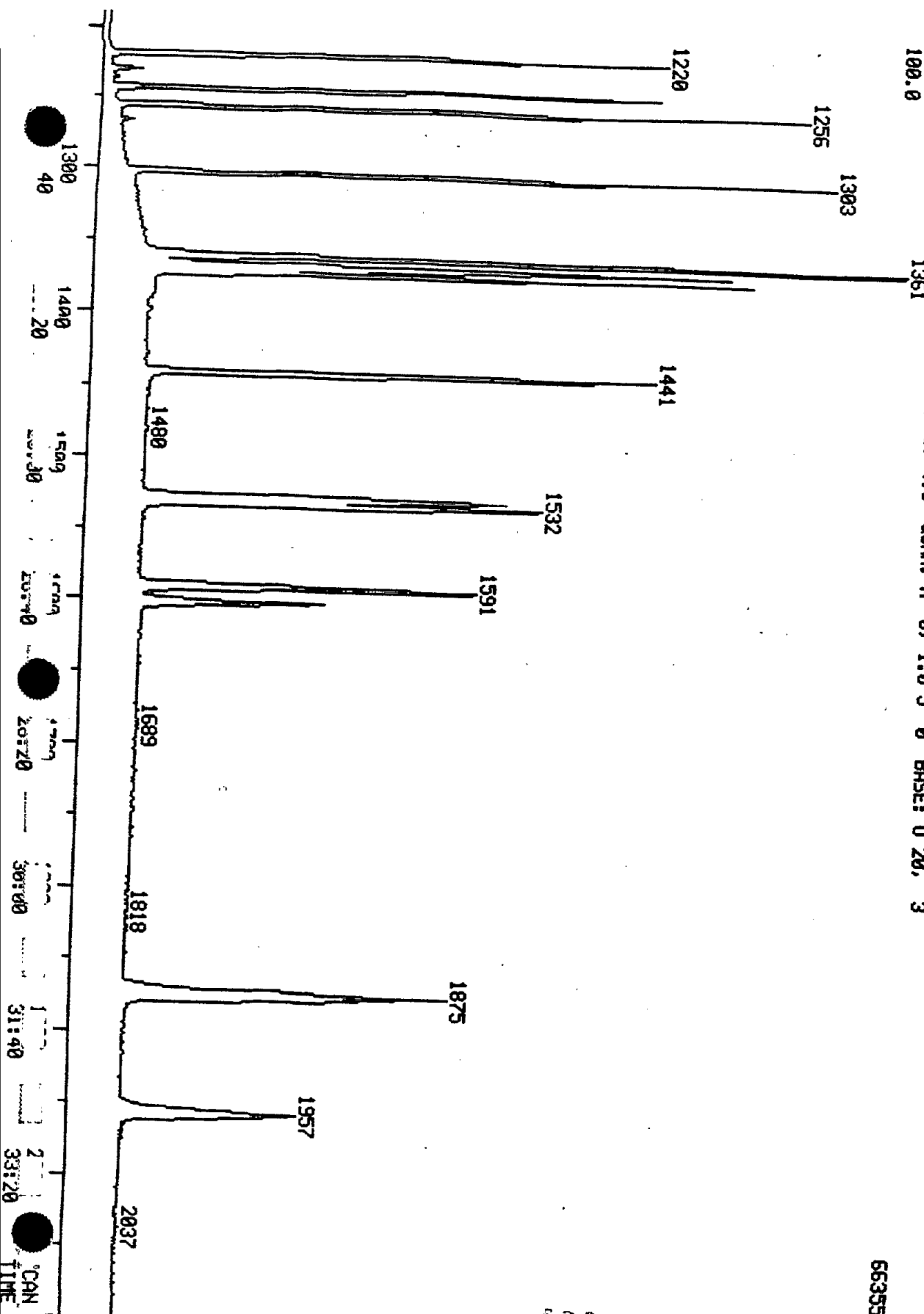
100.0

RIC
08/07/90 12:08:00
SAMPLE: 551080 80 NG BNA STD
CONDS.: INSTR 5100SP
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080705 #1
CALI: 5080705 #2

SCANS 1190 TO 2100
OUT OF 280 TO 2100

663552.



AR301865

Quantitation Report

File: S080705

Weight: 0.006
Acct. No.: RFW

Data: S080705.T1
08/07/90 12:08:00

Sample: SSTDB0 80 NG BNA STD
Conds.: INSTR 5100SP

Formula: S080701

Submitted by: 080790

Instrument: 5100SP
Analyst: BKR

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

INTERNAL STANDARD #1

No	Name
1	C130 1,4-DICHLOROBENZENE-D4
2	C315 PHENOL
3	C325 BIS(2-CHLOROETHYL)ETHER
4	C330 2-CHLOROPHENOL
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C345 BENZYL ALCOHOL
8	C350 1,2-DICHLOROBENZENE
9	C355 2-METHYLPHENOL
10	C360 BIS(2-CHLOROISOPROPYL)ETHER
11	C365 4-METHYLPHENOL
12	C370 N-NITROSO-DI-N-PROPYLAMINE
13	C375 HEXACHLOROETHANE
14	CS45 PHENOL-D5
15	CS50 2-FLUOROPHENOL
16	CI40 NAPHTHALENE-D8
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C430 BENZOIC ACID
22	C435 BIS(2-CHLOROETHOXY)METHANE
23	C440 2,4-DICHLOROPHENOL
24	C445 1,2,4-TRICHLOROBENZENE
25	C450 NAPHTHALENE
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5
31	CI50 ACENAPHTHENE-D10
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C535 DIMETHYLPHTHALATE
38	C540 ACENAPHTHYLENE
39	C545 3-NITROANILINE
40	C550 ACENAPHTHENE
41	C555 2,4-DINITROPHENOL
42	C560 4-NITROPHENOL
43	C565 DIBENZOFURAN
44	C570 2,4-DINITROTOLUENE
45	C543 2,6-DINITROTOLUENE
46	C580 DIETHYLPHTHALATE
47	C585 4-CHLOROPHENYL-PHENYLETHER

SURROGATE STANDARD #2
SURROGATE STANDARD #1
INTERNAL STANDARD #2

SURROGATE STANDARD
INTERNAL STANDARD

AR301866

3 Name
 3 C590 FLUORENE
 49 C595 4-NITROANILINE
 0 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

no	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	428	7:08	1	1.000	A BB	30718.	40.000 NG	0.68
2	94	385	6:25	1	0.900	A BV	87074.	80.000 NG	1.35
3	93	398	6:38	1	0.930	A VV	88350.	80.000 NG	1.35
4	128	406	6:46	1	0.949	A BB	80037.	80.000 NG	1.35
5	146	424	7:04	1	0.991	A BV	88866.	80.000 NG	1.35
6	146	430	7:10	1	1.005	A VB	95033.	80.000 NG	1.35
7	108	446	7:26	1	1.042	A BV	48809.	80.000 NG	1.35
8	146	454	7:34	1	1.061	A BB	92228.	80.000 NG	1.35
9	108	460	7:40	1	1.075	A VB	79176.	80.000 NG	1.35
10	45	467	7:47	1	1.091	A BB	93720.	80.000 NG	1.35
11	108	479	7:59	1	1.119	A BB	79081.	80.000 NG	1.35
12	70	485	8:05	1	1.133	A BB	59234.	80.000 NG	1.35
13	117	495	8:15	1	1.157	A BB	43063.	80.000 NG	1.35
14	99	384	6:24	1	0.897	A BB	100399.	80.000 NG	1.35
15	112	286	4:46	1	0.668	A BB	81336.	80.000 NG	1.35
16	136	601	10:01	16	1.000	A BB	121265.	40.000 NG	0.68
17	77	506	8:26	16	0.842	A BB	84413.	80.000 NG	1.35
18	82	537	8:57	16	0.894	A BB	162945.	80.000 NG	1.35
19	139	549	9:09	16	0.913	A BB	51336.	80.000 NG	1.35
20	107	552	9:12	16	0.918	A BB	82185.	80.000 NG	1.35
21	122	566	9:26	16	0.942	A VB	55771.	80.000 NG	1.35
22	93	567	9:27	16	0.943	A BB	113197.	80.000 NG	1.35
23	162	581	9:41	16	0.967	A BB	69475.	80.000 NG	1.35
24	180	594	9:54	16	0.988	A BB	76579.	80.000 NG	1.35
25	128	604	10:04	16	1.005	A BB	250370.	80.000 NG	1.35
26	127	613	10:13	16	1.020	A BB	101639.	80.000 NG	1.35
27	225	629	10:29	16	1.047	A BB	44097.	80.000 NG	1.35
28	107	681	11:21	16	1.133	A BB	70484.	80.000 NG	1.35
29	142	703	11:43	16	1.170	A BB	164046.	80.000 NG	1.35
30	82	503	8:23	16	0.837	A BB	108309.	80.000 NG	1.35
31	164	861	14:21	31	1.000	A BB	79384.	40.000 NG	0.68
32	237	736	12:16	31	0.855	A BB	36923.	80.000 NG	1.35
33	196	748	12:28	31	0.869	A BV	52015.	80.000 NG	1.35
34	196	753	12:33	31	0.875	A VB	52867.	80.000 NG	1.35
35	162	775	12:55	31	0.900	A BB	158052.	80.000 NG	1.35
36	65	794	13:14	31	0.922	A BB	48427.	80.000 NG	1.35
37	163	825	13:45	31	0.958	A BB	199577.	80.000 NG	1.35
38	152	838	13:58	31	0.973	A BB	255669.	80.000 NG	1.35
39	138	856	14:16	31	0.994	A BB	37220.	80.000 NG	1.35
40	153	866	14:26	31	1.006	A BB	169484.	80.000 NG	1.35
41	184	871	14:31	31	1.012	A BB	30334.	80.000 NG	1.35
42	109	879	14:39	31	1.021	A BB	28735.	80.000 NG	1.35
43	168	890	14:50	31	1.034	A BB	232224.	80.000 NG	1.35
44	165	894	14:54	31	1.038	A BB	61451.	80.000 NG	1.35
45	165	836	13:56	31	0.971	A BB	52142.	80.000 NG	1.35
46	149	931	15:31	31	1.081	A BB	203726.	80.000 NG	1.35
47	204	941	15:41	31	1.093	A BB	98719.	80.000 NG	1.35
48	166	942	15:42	31	1.094	A BB	198086.	80.000 NG	1.35
49	138	949	15:49	31	1.102	A VB	35552.	80.000 NG	1.35
50	172	760	12:40	31	0.883	A BB	198136.	80.000 NG	1.35

AR301867

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:25	1.00	0.900	1.00	80.00	80.00	1.417	1.417	1.00
3	6:38	1.00	0.930	1.00	80.00	80.00	1.438	1.438	1.00
4	6:46	1.00	0.949	1.00	80.00	80.00	1.303	1.303	1.00
5	7:04	1.00	0.991	1.00	80.00	80.00	1.446	1.446	1.00
6	7:10	1.00	1.005	1.00	80.00	80.00	1.547	1.547	1.00
7	7:26	1.00	1.042	1.00	80.00	80.00	0.794	0.794	1.00
8	7:34	1.00	1.061	1.00	80.00	80.00	1.501	1.501	1.00
9	7:40	1.00	1.075	1.00	80.00	80.00	1.289	1.289	1.00
10	7:47	1.00	1.091	1.00	80.00	80.00	1.525	1.525	1.00
11	7:59	1.00	1.119	1.00	80.00	80.00	1.287	1.287	1.00
12	8:05	1.00	1.133	1.00	80.00	80.00	0.964	0.964	1.00
13	8:15	1.00	1.157	1.00	80.00	80.00	0.701	0.701	1.00
14	6:24	1.00	0.897	1.00	80.00	80.00	1.634	1.634	1.00
15	4:46	1.00	0.668	1.00	80.00	80.00	1.324	1.324	1.00
16	10:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:26	1.00	0.842	1.00	80.00	80.00	0.348	0.348	1.00
18	8:57	1.00	0.894	1.00	80.00	80.00	0.672	0.672	1.00
19	9:09	1.00	0.913	1.00	80.00	80.00	0.212	0.212	1.00
20	9:12	1.00	0.918	1.00	80.00	80.00	0.339	0.339	1.00
21	9:26	1.00	0.942	1.00	80.00	80.00	0.230	0.230	1.00
22	9:27	1.00	0.943	1.00	80.00	80.00	0.467	0.467	1.00
23	9:41	1.00	0.967	1.00	80.00	80.00	0.286	0.286	1.00
24	9:54	1.00	0.988	1.00	80.00	80.00	0.316	0.316	1.00
25	10:04	1.00	1.005	1.00	80.00	80.00	1.032	1.032	1.00
26	10:13	1.00	1.020	1.00	80.00	80.00	0.419	0.419	1.00
27	10:29	1.00	1.047	1.00	80.00	80.00	0.182	0.182	1.00
28	11:21	1.00	1.133	1.00	80.00	80.00	0.291	0.291	1.00
29	11:43	1.00	1.170	1.00	80.00	80.00	0.676	0.676	1.00
30	8:23	1.00	0.837	1.00	80.00	80.00	0.447	0.447	1.00
31	14:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:16	1.00	0.855	1.00	80.00	80.00	0.233	0.233	1.00
33	12:28	1.00	0.869	1.00	80.00	80.00	0.328	0.328	1.00
34	12:33	1.00	0.875	1.00	80.00	80.00	0.333	0.333	1.00
35	12:55	1.00	0.900	1.00	80.00	80.00	0.995	0.995	1.00
36	13:14	1.00	0.922	1.00	80.00	80.00	0.305	0.305	1.00
37	13:45	1.00	0.958	1.00	80.00	80.00	1.257	1.257	1.00
38	13:58	1.00	0.973	1.00	80.00	80.00	1.610	1.610	1.00
39	14:16	1.00	0.994	1.00	80.00	80.00	0.234	0.234	1.00
40	14:26	1.00	1.006	1.00	80.00	80.00	1.067	1.067	1.00
41	14:31	1.00	1.012	1.00	80.00	80.00	0.191	0.191	1.00
42	14:39	1.00	1.021	1.00	80.00	80.00	0.181	0.181	1.00
43	14:50	1.00	1.034	1.00	80.00	80.00	1.463	1.463	1.00
44	14:54	1.00	1.038	1.00	80.00	80.00	0.387	0.387	1.00
45	13:56	1.00	0.971	1.00	80.00	80.00	0.328	0.328	1.00
46	15:31	1.00	1.081	1.00	80.00	80.00	1.283	1.283	1.00
47	15:41	1.00	1.093	1.00	80.00	80.00	0.622	0.622	1.00
48	15:42	1.00	1.094	1.00	80.00	80.00	1.248	1.248	1.00
49	15:49	1.00	1.102	1.00	80.00	80.00	0.224	0.224	1.00
50	12:40	1.00	0.883	1.00	80.00	80.00	1.248	1.248	1.00

AR301868

ta: S080705.TI

05/07/90 12:08:00

Sample: SSTDB0 80 NG BNA STD

Instruments: INSTR 5100SP

Formula: S080701

Submitted by: 080790

Instrument: 5100SP

Analyst: BKR

Weight: 0.006

Acct. No.: RFW

* JUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name	
1	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
3	C610 4,6-DINITRO-2-METHYLPHENOL	
4	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
53	330	981	16:21	31	1.139	A BB	30706.	80.000 NG	1.35
54	188	1080	18:00	52	1.000	A BB	165091.	40.000 NG	0.68
55	198	955	15:55	52	0.884	A BB	37793.	80.000 NG	1.35
56	169	960	16:00	52	0.889	A BB	123158.	80.000 NG	1.35
57	248	1014	16:54	52	0.939	A BB	63520.	80.000 NG	1.35
58	284	1037	17:17	52	0.960	A BB	80037.	80.000 NG	1.35
59	266	1062	17:42	52	0.983	A BB	49797.	80.000 NG	1.35
60	178	1083	18:03	52	1.003	A BV	270487.	80.000 NG	1.35
61	178	1089	18:09	52	1.008	A VB	303878.	80.000 NG	1.35
62	149	1153	19:13	52	1.068	A BV	360926.	80.000 NG	1.35
63	202	1220	20:20	52	1.130	A BV	290245.	80.000 NG	1.35
64	240	1369	22:49	62	1.000	A BB	187909.	40.000 NG	0.68
65	202	1244	20:44	62	0.909	A BB	325358.	80.000 NG	1.35
66	149	1303	21:43	62	0.952	A BB	221810.	80.000 NG	1.35
67	252	1361	22:41	62	0.994	A BB	103453.	80.000 NG	1.35
68	228	1367	22:47	62	0.999	A BV	397075.	80.000 NG	1.35

AR301869

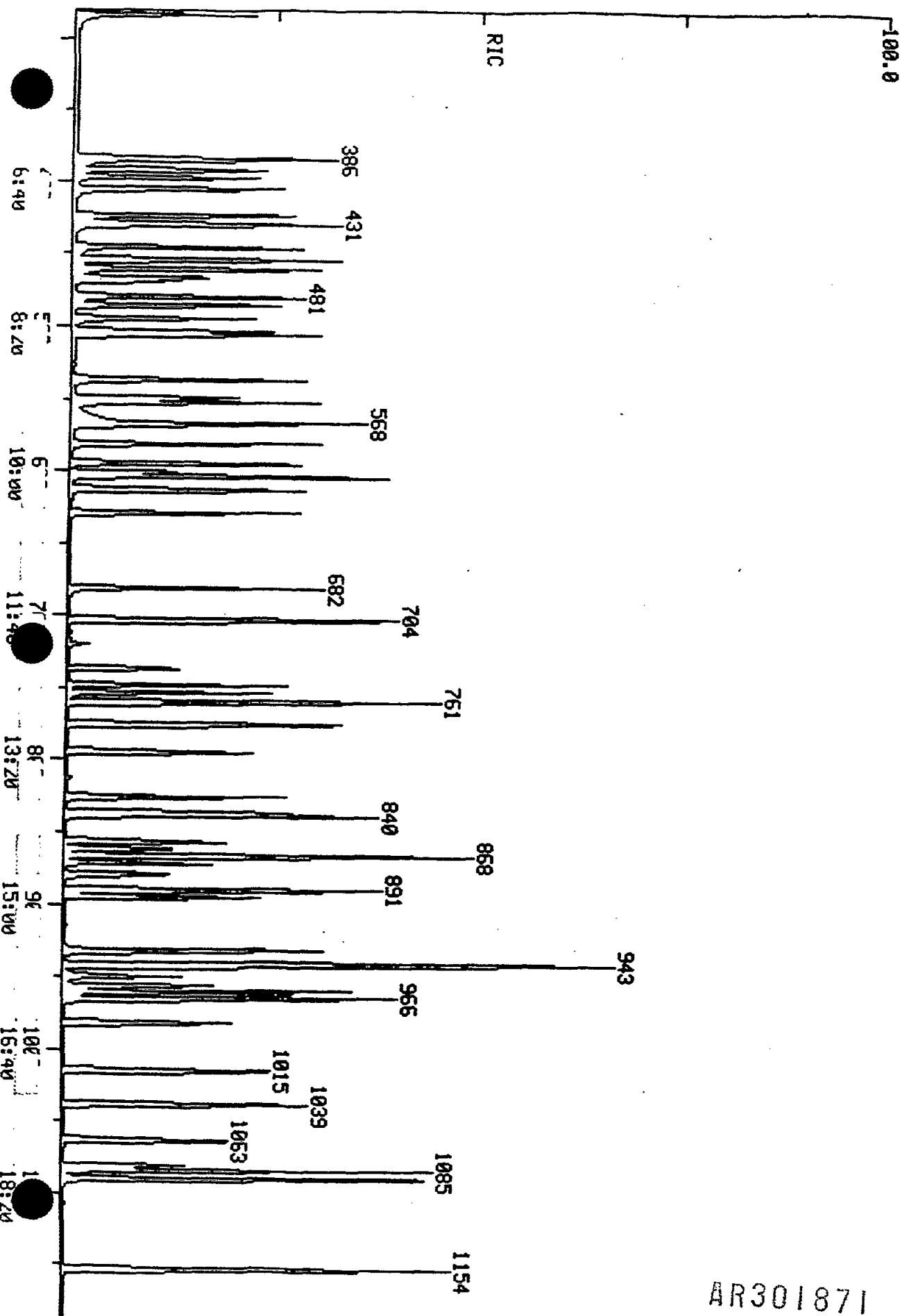
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot ¹¹⁸
67	149	1362	22:42	62	0.995	A BB	326353.	80.000 NG	1.35
68	228	1373	22:53	62	1.003	A VB	348934.	80.000 NG	1.35
69	244	1256	20:56	62	0.917	A BB	263169.	80.000 NG	1.35
70	264	1602	26:42	70	1.000	A BB	167227.	40.000 NG	0.68
71	149	1441	24:01	70	0.900	A BB	508875.	80.000 NG	1.35
72	252	1528	25:28	70	0.954	A BV	405287.	80.000 NG	1.35
73	252	1532	25:32	70	0.956	A VB	374904.	80.000 NG	1.35
74	252	1591	26:31	70	0.993	A BV	361270.	80.000 NG	1.35
75	276	1875	31:15	70	1.170	A BB	335216.	80.000 NG	1.35
76	278	1875	31:15	70	1.170	A BB	266564.	80.000 NG	1.35
77	276	1957	32:37	70	1.222	A BB	284169.	80.000 NG	1.35

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:21	1.00	1.139	1.00	80.00	80.00	0.193	0.193	1.00
52	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	15:55	1.00	0.884	1.00	80.00	80.00	0.114	0.114	1.00
54	16:00	1.00	0.889	1.00	80.00	80.00	0.373	0.373	1.00
55	16:54	1.00	0.939	1.00	80.00	80.00	0.192	0.192	1.00
56	17:17	1.00	0.960	1.00	80.00	80.00	0.242	0.242	1.00
57	17:42	1.00	0.983	1.00	80.00	80.00	0.151	0.151	1.00
58	18:03	1.00	1.003	1.00	80.00	80.00	0.819	0.819	1.00
59	18:09	1.00	1.008	1.00	80.00	80.00	0.920	0.920	1.00
60	19:13	1.00	1.068	1.00	80.00	80.00	1.093	1.093	1.00
61	20:20	1.00	1.130	1.00	80.00	80.00	0.879	0.879	1.00
62	22:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	20:44	1.00	0.909	1.00	80.00	80.00	0.866	0.866	1.00
64	21:43	1.00	0.952	1.00	80.00	80.00	0.590	0.590	1.00
65	22:41	1.00	0.994	1.00	80.00	80.00	0.275	0.275	1.00
66	22:47	1.00	0.999	1.00	80.00	80.00	1.057	1.057	1.00
67	22:42	1.00	0.995	1.00	80.00	80.00	0.868	0.868	1.00
68	22:53	1.00	1.003	1.00	80.00	80.00	0.928	0.928	1.00
69	20:56	1.00	0.917	1.00	80.00	80.00	0.700	0.700	1.00
70	26:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	24:01	1.00	0.900	1.00	80.00	80.00	1.522	1.522	1.00
72	25:28	1.00	0.954	1.00	80.00	80.00	1.212	1.212	1.00
73	25:32	1.00	0.956	1.00	80.00	80.00	1.121	1.121	1.00
74	26:31	1.00	0.993	1.00	80.00	80.00	1.080	1.080	1.00
75	31:15	1.00	1.170	1.00	80.00	80.00	1.002	1.002	1.00
76	31:15	1.00	1.170	1.00	80.00	80.00	0.797	0.797	1.00
77	32:37	1.00	1.222	1.00	80.00	80.00	0.850	0.850	1.00

AR301870

RIC
 08/07/90 12:53:00
 SAMPLE: 5510120 120 NG BNA STD
 COND.: INSTR 5100SP
 RANGE: C 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5088706 #1
 CALL: 5088706 #2
 SCANS 280 TO 1190
 OUT OF 280 TO 2100



AR301871

120

100.0

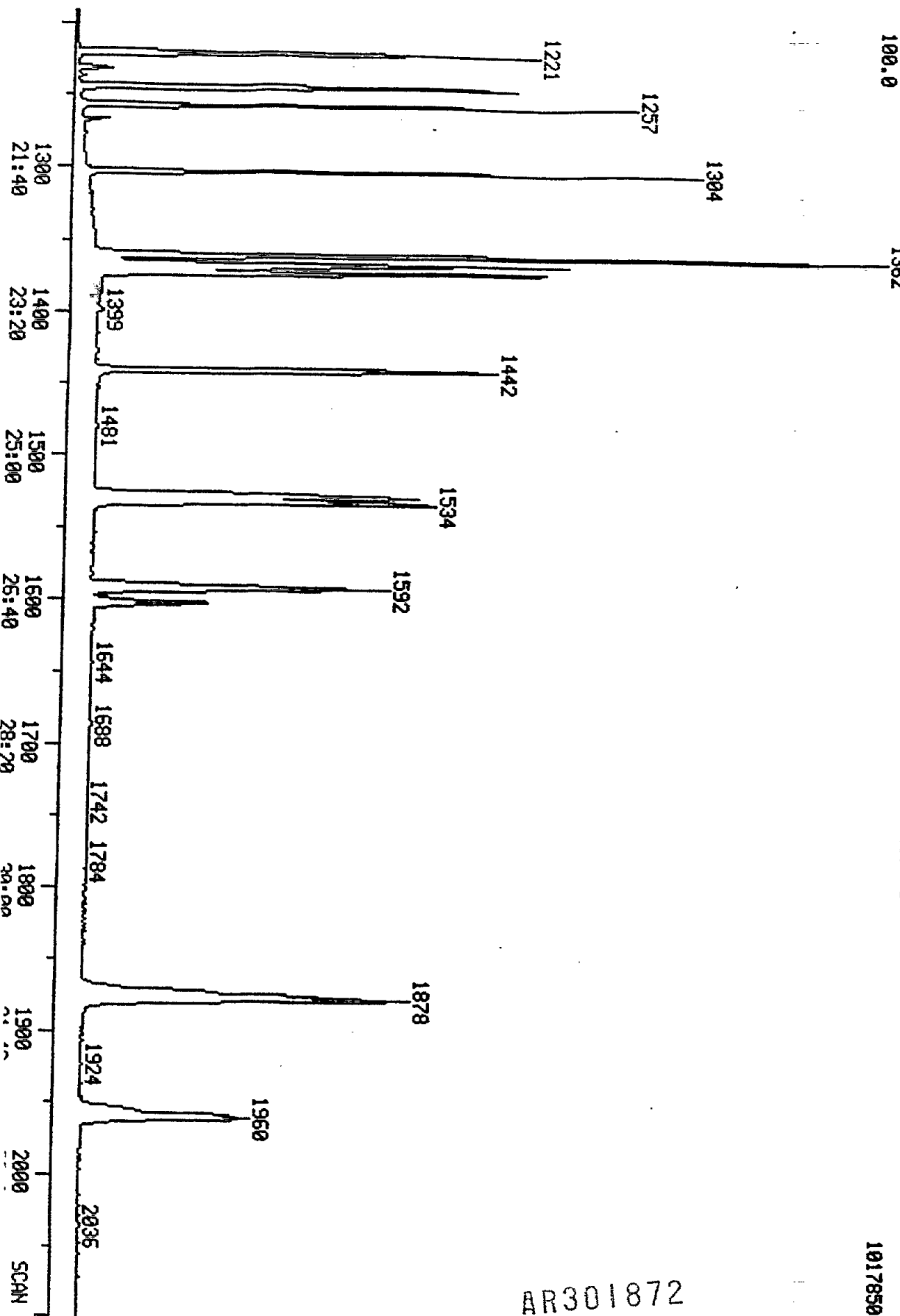
RIC
08/07/90 12:53:00
SAMPLE: SSTD120 120 NG BNA STD
CONDS.: INSTR 51005P
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080706 #1
CALI: 5080706 #2

SCANS 1190 TO 2100
OUT OF 280 TO 2100

1017850.

AR301872



I ta: S080706.TI

/07/90 12:53:00

Sample: SSTD120 120 NG BNA STD

Std.: INSTR 5100SP

Formula: S080701

Instrument: 5100SP

Weight: 0.006

Submitted by: 080790

Analyst: BKR

Acct. No.: RFW

A JUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

Name	
CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
C315 PHENOL	
C325 BIS(2-CHLOROETHYL)ETHER	
C330 2-CHLOROPHENOL	
C335 1,3-DICHLOROBENZENE	
C340 1,4-DICHLOROBENZENE	
C345 BENZYL ALCOHOL	
C350 1,2-DICHLOROBENZENE	
C355 2-METHYLPHENOL	
C360 BIS(2-CHLOROISOPROPYL)ETHER	
C365 4-METHYLPHENOL	
C370 N-NITROSO-DI-N-PROPYLAMINE	
C375 HEXACHLOROETHANE	
CS45 PHENOL-D5	SURROGATE STANDARD #2
CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
C410 NITROBENZENE	
C415 ISOPHORONE	
C420 2-NITROPHENOL	
C425 2,4-DIMETHYLPHENOL	
C430 BENZOIC ACID	
C435 BIS(2-CHLOROETHOXY)METHANE	
C440 2,4-DICHLOROPHENOL	
C445 1,2,4-TRICHLOROBENZENE	
C450 NAPHTHALENE	
C455 4-CHLOROANILINE	
C460 HEXACHLOROBUTADIENE	
C465 4-CHLORO-3-METHYLPHENOL	
C470 2-METHYLNAPHTHALENE	
CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
C510 HEXACHLOROCYCLOPENTADIENE	
C515 2,4,6-TRICHLOROPHENOL	
C520 2,4,5-TRICHLOROPHENOL	
C525 2-CHLORONAPHTHALENE	
C530 2-NITROANILINE	
C535 DIMETHYLPHTHALATE	
C540 ACENAPHTHYLENE	
C545 3-NITROANILINE	
C550 ACENAPHTHENE	
C555 2,4-DINITROPHENOL	
C560 4-NITROPHENOL	
C565 DIBENZOFURAN	
C570 2,4-DINITROTOLUENE	
C543 2,6-DINITROTOLUENE	
C580 DIETHYLPHTHALATE	
C585 4-CHLOROPHENYL-PHENYLEETHER	

AR301873

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
1	152	429	7:09	1	1.000	A BB	41297.	40.000 NG	0.46
2	94	386	6:26	1	0.900	A BV	170923.	120.000 NG	1.37
3	93	398	6:38	1	0.928	A VV	159942.	120.000 NG	1.37
4	128	406	6:46	1	0.946	A BB	148000.	120.000 NG	1.37
5	146	425	7:05	1	0.991	A BV	160890.	120.000 NG	1.37
6	146	431	7:11	1	1.005	A VB	171478.	120.000 NG	1.37
7	108	447	7:27	1	1.042	A BV	92595.	120.000 NG	1.37
8	146	455	7:35	1	1.061	A BB	163034.	120.000 NG	1.37
9	108	461	7:41	1	1.075	A VB	148188.	120.000 NG	1.37
10	45	468	7:48	1	1.091	A BB	204917.	120.000 NG	1.37
11	108	481	8:01	1	1.121	A BB	153577.	120.000 NG	1.37
12	70	487	8:07	1	1.135	A BB	119722.	120.000 NG	1.37
13	117	496	8:16	1	1.156	A BB	74777.	120.000 NG	1.37
14	99	384	6:24	1	0.895	A BB	193873.	120.000 NG	1.37
15	112	284	4:44	1	0.662	A BB	157530.	120.000 NG	1.37
16	136	602	10:02	16	1.000	A BB	136826.	40.000 NG	0.46
17	77	507	8:27	16	0.842	A BB	158690.	120.000 NG	1.37
18	82	538	8:58	16	0.894	A BB	297227.	120.000 NG	1.37
19	139	550	9:10	16	0.914	A BV	87830.	120.000 NG	1.37
20	107	553	9:13	16	0.919	A BB	150137.	120.000 NG	1.37
21	122	570	9:30	16	0.947	A VB	98936.	120.000 NG	1.37
22	93	568	9:28	16	0.944	A BB	199773.	120.000 NG	1.37
23	162	582	9:42	16	0.967	A BB	127059.	120.000 NG	1.37
24	180	595	9:55	16	0.988	A BB	131421.	120.000 NG	1.37
25	128	605	10:05	16	1.005	A BB	377801.	120.000 NG	1.37
26	127	614	10:14	16	1.020	A BB	188931.	120.000 NG	1.37
27	225	630	10:30	16	1.047	A BB	69657.	120.000 NG	1.37
28	107	682	11:22	16	1.133	A BB	117495.	120.000 NG	1.37
29	142	704	11:44	16	1.169	A BB	265658.	120.000 NG	1.37
30	82	504	8:24	16	0.837	A BB	202640.	120.000 NG	1.37
31	164	862	14:22	31	1.000	A BB	83242.	40.000 NG	0.46
32	237	738	12:18	31	0.856	A BB	49701.	120.000 NG	1.37
33	196	749	12:29	31	0.869	A BV	71282.	120.000 NG	1.37
34	196	754	12:34	31	0.875	A VB	80004.	120.000 NG	1.37
35	162	776	12:56	31	0.900	A BB	243795.	120.000 NG	1.37
36	65	796	13:16	31	0.923	A BB	84548.	120.000 NG	1.37
37	163	827	13:47	31	0.959	A BB	260055.	120.000 NG	1.37
38	152	840	14:00	31	0.974	A BB	355086.	120.000 NG	1.37
39	138	858	14:18	31	0.995	A BB	74611.	120.000 NG	1.37
40	153	868	14:28	31	1.007	A BB	257378.	120.000 NG	1.37
41	184	873	14:33	31	1.013	A BB	51023.	120.000 NG	1.37
42	109	880	14:40	31	1.021	A BB	45430.	120.000 NG	1.37
43	168	891	14:51	31	1.034	A BB	326454.	120.000 NG	1.37
44	165	896	14:56	31	1.039	A BB	94791.	120.000 NG	1.37
45	165	837	13:57	31	0.971	A BB	67963.	120.000 NG	1.37
46	149	933	15:33	31	1.082	A BB	280230.	120.000 NG	1.37
47	204	942	15:42	31	1.093	A BB	142489.	120.000 NG	1.37
48	166	943	15:43	31	1.094	A BB	296351.	120.000 NG	1.37
49	138	951	15:51	31	1.103	A VV	70586.	120.000 NG	1.37
50	172	761	12:41	31	0.883	A BB	291927.	120.000 NG	1.37

AR301874

	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
2	7:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	6:26	1.00	0.900	1.00	120.00	120.00	1.380	1.380	1.00
6	6:38	1.00	0.928	1.00	120.00	120.00	1.291	1.291	1.00
9	6:46	1.00	0.946	1.00	120.00	120.00	1.195	1.195	1.00
12	7:05	1.00	0.991	1.00	120.00	120.00	1.299	1.299	1.00
13	7:11	1.00	1.005	1.00	120.00	120.00	1.384	1.384	1.00
16	7:27	1.00	1.042	1.00	120.00	120.00	0.747	0.747	1.00
19	7:35	1.00	1.061	1.00	120.00	120.00	1.316	1.316	1.00
22	7:41	1.00	1.075	1.00	120.00	120.00	1.196	1.196	1.00
23	7:48	1.00	1.091	1.00	120.00	120.00	1.654	1.654	1.00
26	8:01	1.00	1.121	1.00	120.00	120.00	1.240	1.240	1.00
29	8:07	1.00	1.135	1.00	120.00	120.00	0.966	0.966	1.00
32	8:16	1.00	1.156	1.00	120.00	120.00	0.604	0.604	1.00
33	6:24	1.00	0.895	1.00	120.00	120.00	1.565	1.565	1.00
36	4:44	1.00	0.662	1.00	120.00	120.00	1.272	1.272	1.00
39	10:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
42	8:27	1.00	0.842	1.00	120.00	120.00	0.387	0.387	1.00
43	8:58	1.00	0.894	1.00	120.00	120.00	0.724	0.724	1.00
46	9:10	1.00	0.914	1.00	120.00	120.00	0.214	0.214	1.00
49	9:13	1.00	0.919	1.00	120.00	120.00	0.366	0.366	1.00
52	9:30	1.00	0.947	1.00	120.00	120.00	0.241	0.241	1.00
55	9:28	1.00	0.944	1.00	120.00	120.00	0.487	0.487	1.00
58	9:42	1.00	0.967	1.00	120.00	120.00	0.310	0.310	1.00
61	9:55	1.00	0.988	1.00	120.00	120.00	0.320	0.320	1.00
64	10:05	1.00	1.005	1.00	120.00	120.00	0.920	0.920	1.00
67	10:14	1.00	1.020	1.00	120.00	120.00	0.460	0.460	1.00
70	10:30	1.00	1.047	1.00	120.00	120.00	0.170	0.170	1.00
73	11:22	1.00	1.133	1.00	120.00	120.00	0.286	0.286	1.00
76	11:44	1.00	1.169	1.00	120.00	120.00	0.647	0.647	1.00
79	8:24	1.00	0.837	1.00	120.00	120.00	0.494	0.494	1.00
82	14:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
85	12:18	1.00	0.856	1.00	120.00	120.00	0.199	0.199	1.00
88	12:29	1.00	0.869	1.00	120.00	120.00	0.285	0.285	1.00
91	12:34	1.00	0.875	1.00	120.00	120.00	0.320	0.320	1.00
94	12:56	1.00	0.900	1.00	120.00	120.00	0.976	0.976	1.00
97	13:16	1.00	0.923	1.00	120.00	120.00	0.339	0.339	1.00
100	13:47	1.00	0.959	1.00	120.00	120.00	1.041	1.041	1.00
103	14:00	1.00	0.974	1.00	120.00	120.00	1.422	1.422	1.00
106	14:18	1.00	0.995	1.00	120.00	120.00	0.299	0.299	1.00
109	14:28	1.00	1.007	1.00	120.00	120.00	1.031	1.031	1.00
112	14:33	1.00	1.013	1.00	120.00	120.00	0.204	0.204	1.00
115	14:40	1.00	1.021	1.00	120.00	120.00	0.182	0.182	1.00
118	14:51	1.00	1.034	1.00	120.00	120.00	1.307	1.307	1.00
121	14:56	1.00	1.039	1.00	120.00	120.00	0.380	0.380	1.00
124	13:57	1.00	0.971	1.00	120.00	120.00	0.272	0.272	1.00
127	15:33	1.00	1.082	1.00	120.00	120.00	1.122	1.122	1.00
130	15:42	1.00	1.093	1.00	120.00	120.00	0.571	0.571	1.00
133	15:43	1.00	1.094	1.00	120.00	120.00	1.187	1.187	1.00
136	15:51	1.00	1.103	1.00	120.00	120.00	0.283	0.283	1.00
139	12:41	1.00	0.883	1.00	120.00	120.00	1.169	1.169	1.00

Data: S080706.TI

08/07/90 12:53:00

Sample: SSTD120 120 NG BNA STD

Conds.: INSTR 5100SP

Formula: S080701

Instrument: 5100SP

Weight: 0.006

Submitted by: 080790

Analyst: BKR

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	982	16:22	31	1.139	A BB	36796.	120.000 NG	1.37
52	188	1081	18:01	52	1.000	A BB	129684.	40.000 NG	0.46
53	198	957	15:57	52	0.885	A BB	57444.	120.000 NG	1.37
54	169	961	16:01	52	0.889	A BB	210584.	120.000 NG	1.37
55	248	1015	16:55	52	0.939	A BB	72233.	120.000 NG	1.37
56	284	1039	17:19	52	0.961	A BB	93076.	120.000 NG	1.37
57	266	1063	17:43	52	0.983	A BB	57152.	120.000 NG	1.37
58	178	1085	18:05	52	1.004	A BV	350708.	120.000 NG	1.37
59	178	1090	18:10	52	1.008	A VB	403951.	120.000 NG	1.37
60	149	1154	19:14	52	1.068	A BV	446481.	120.000 NG	1.37
61	202	1221	20:21	52	1.130	A BV	362517.	120.000 NG	1.37
62	240	1370	22:50	62	1.000	A BB	173797.	40.000 NG	0.46
63	202	1244	20:44	62	0.908	A BB	394572.	120.000 NG	1.37
64	149	1304	21:44	62	0.952	A BB	293040.	120.000 NG	1.37
65	252	1361	22:41	62	0.993	A BB	177562.	120.000 NG	1.37
66	228	1368	22:48	62	0.999	A VV	493544.	120.000 NG	1.37

AR301876

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
7	149	1362	22:42	62	0.994	A BV	385822.	120.000 NG	1.37
68	228	1373	22:53	62	1.002	A VB	459261.	120.000 NG	1.37
9	244	1257	20:57	62	0.918	A BB	338710.	120.000 NG	1.37
0	264	1602	26:42	70	1.000	A BB	160381.	40.000 NG	0.46
1	149	1442	24:02	70	0.900	A BB	640123.	120.000 NG	1.37
72	252	1529	25:29	70	0.954	A BV	603661.	120.000 NG	1.37
73	252	1534	25:34	70	0.958	A VB	459840.	120.000 NG	1.37
4	252	1592	26:32	70	0.994	A BV	527252.	120.000 NG	1.37
75	276	1878	31:18	70	1.172	A BB	538771.	120.000 NG	1.37
76	278	1878	31:18	70	1.172	A BB	436831.	120.000 NG	1.37
7	276	1960	32:40	70	1.223	A BB	452492.	120.000 NG	1.37

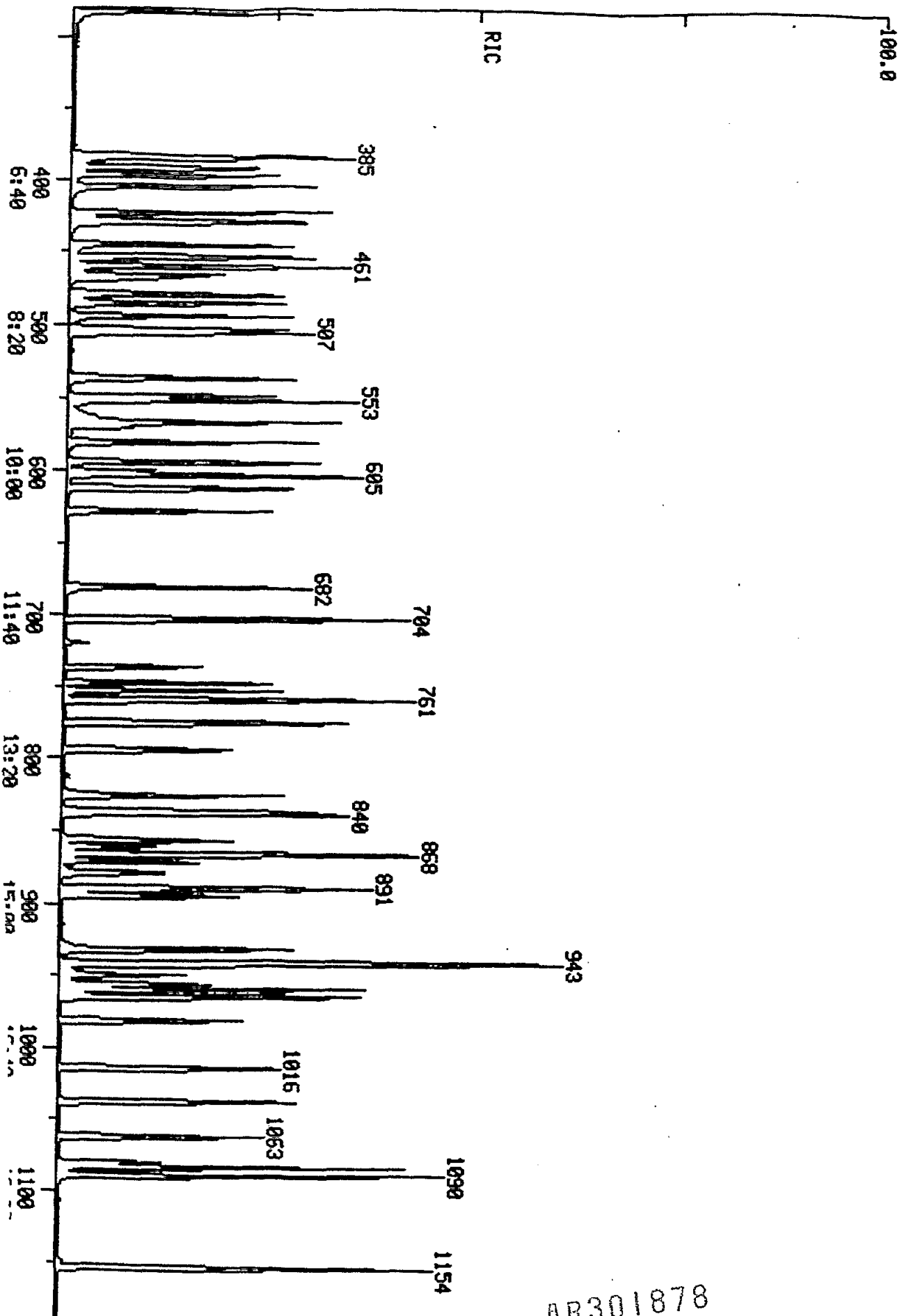
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	16:22	1.00	1.139	1.00	120.00	120.00	0.147	0.147	1.00
2	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	15:57	1.00	0.885	1.00	120.00	120.00	0.148	0.148	1.00
4	16:01	1.00	0.889	1.00	120.00	120.00	0.541	0.541	1.00
5	16:55	1.00	0.939	1.00	120.00	120.00	0.186	0.186	1.00
56	17:19	1.00	0.961	1.00	120.00	120.00	0.239	0.239	1.00
57	17:43	1.00	0.983	1.00	120.00	120.00	0.147	0.147	1.00
9	18:05	1.00	1.004	1.00	120.00	120.00	0.901	0.901	1.00
9	18:10	1.00	1.008	1.00	120.00	120.00	1.038	1.038	1.00
60	19:14	1.00	1.068	1.00	120.00	120.00	1.148	1.148	1.00
1	20:21	1.00	1.130	1.00	120.00	120.00	0.932	0.932	1.00
2	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	20:44	1.00	0.908	1.00	120.00	120.00	0.757	0.757	1.00
4	21:44	1.00	0.952	1.00	120.00	120.00	0.562	0.562	1.00
5	22:41	1.00	0.993	1.00	120.00	120.00	0.341	0.341	1.00
6	22:48	1.00	0.999	1.00	120.00	120.00	0.947	0.947	1.00
67	22:42	1.00	0.994	1.00	120.00	120.00	0.740	0.740	1.00
3	22:53	1.00	1.002	1.00	120.00	120.00	0.881	0.881	1.00
7	20:57	1.00	0.918	1.00	120.00	120.00	0.650	0.650	1.00
70	26:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
1	24:02	1.00	0.900	1.00	120.00	120.00	1.330	1.330	1.00
2	25:29	1.00	0.954	1.00	120.00	120.00	1.255	1.255	1.00
73	25:34	1.00	0.958	1.00	120.00	120.00	0.956	0.956	1.00
74	26:32	1.00	0.994	1.00	120.00	120.00	1.096	1.096	1.00
5	31:18	1.00	1.172	1.00	120.00	120.00	1.120	1.120	1.00
76	31:18	1.00	1.172	1.00	120.00	120.00	0.908	0.908	1.00
77	32:40	1.00	1.223	1.00	120.00	120.00	0.940	0.940	1.00

126

RIC
08/07/90 13:38:00
SAMPLE: 55TD160 160 NG BNA STD
COND.: INSTR 5100SP
RANGE: C 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5088707 #1
CALL: 5088707 #2

SCANS 280 TO 1190
OUT OF 280 TO 2100



AR301878

127

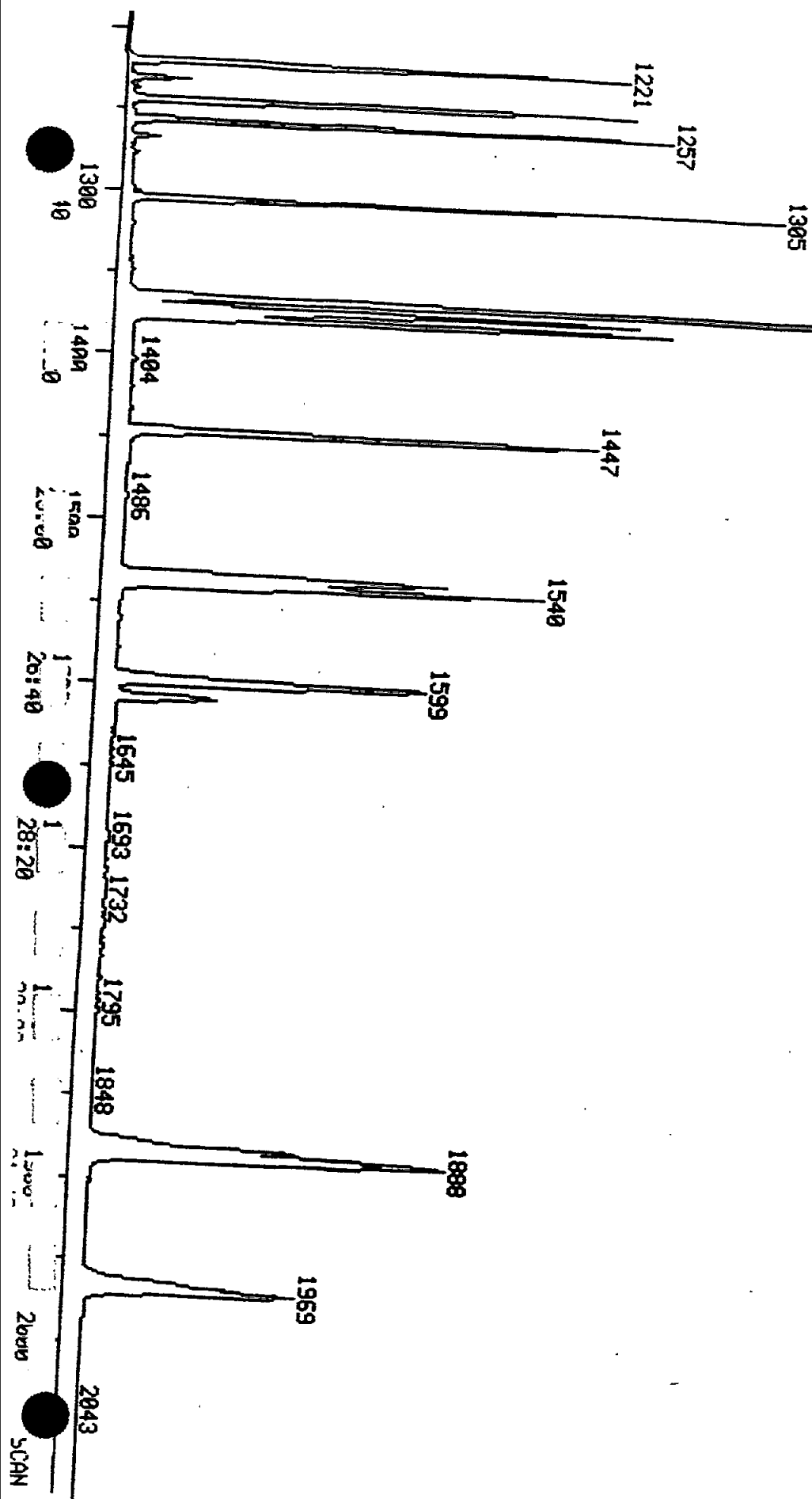
RIC
08/07/90 13:38:00
SAMPLE: STD160 160 NG BNA STD
COND.: INSTR 51005P
RANGE: C 1,2100 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3
100.0

DATA: 5080707 #1
CALL: 5080707 #2

SCANS 1190 TO 2100
OUT OF 280 TO 2100

1310710.

AR301879



Data: S080707.TI

08/07/90 13:38:00

Sample: SSTD160 160 NG BNA STD

Conds.: INSTR 5100SP

Formula: S080701

Instrument: 5100SP

Weight: 0.006

Submitted by: 080790

Analyst: BKR

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301880

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

129

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	428	7:08	1	1.000	A BB	42881.	40.000 NG	0.34
2	94	386	6:26	1	0.902	A BV	239836.	160.000 NG	1.38
3	93	398	6:38	1	0.930	A VV	214568.	160.000 NG	1.38
4	128	406	6:46	1	0.949	A BB	203909.	160.000 NG	1.38
5	146	424	7:04	1	0.991	A BV	215320.	160.000 NG	1.38
6	146	430	7:10	1	1.005	A VB	223645.	160.000 NG	1.38
7	108	447	7:27	1	1.044	A BV	129020.	160.000 NG	1.38
8	146	455	7:35	1	1.063	A BB	215825.	160.000 NG	1.38
9	108	461	7:41	1	1.077	A VB	198917.	160.000 NG	1.38
10	45	467	7:47	1	1.091	A BB	291131.	160.000 NG	1.38
11	108	481	8:01	1	1.124	A BB	207381.	160.000 NG	1.38
12	70	487	8:07	1	1.138	A BB	166449.	160.000 NG	1.38
13	117	495	8:15	1	1.157	A BB	100572.	160.000 NG	1.38
14	99	384	6:24	1	0.897	A BB	271781.	160.000 NG	1.38
15	112	284	4:44	1	0.664	A BB	223402.	160.000 NG	1.38
16	136	601	10:01	16	1.000	A BB	139277.	40.000 NG	0.34
17	77	507	8:27	16	0.844	A BB	215653.	160.000 NG	1.38
18	82	538	8:58	16	0.895	A BB	400979.	160.000 NG	1.38
19	139	550	9:10	16	0.915	A BB	117829.	160.000 NG	1.38
20	107	553	9:13	16	0.920	A BB	203595.	160.000 NG	1.38
21	122	571	9:31	16	0.950	A VB	141314.	160.000 NG	1.38
22	93	568	9:28	16	0.945	A BB	262431.	160.000 NG	1.38
23	162	582	9:42	16	0.968	A BB	172628.	160.000 NG	1.38
24	180	595	9:55	16	0.990	A BB	174212.	160.000 NG	1.38
25	128	605	10:05	16	1.007	A BB	445172.	160.000 NG	1.38
26	127	613	10:13	16	1.020	A BB	250883.	160.000 NG	1.38
27	225	629	10:29	16	1.047	A BB	95763.	160.000 NG	1.38
28	107	682	11:22	16	1.135	A BB	169688.	160.000 NG	1.38
29	142	704	11:44	16	1.171	A BB	322975.	160.000 NG	1.38
30	82	504	8:24	16	0.839	A BB	279470.	160.000 NG	1.38
31	164	862	14:22	31	1.000	A BB	89093.	40.000 NG	0.34
32	237	737	12:17	31	0.855	A BB	70358.	160.000 NG	1.38
33	196	749	12:29	31	0.869	A BV	97058.	160.000 NG	1.38
34	196	754	12:34	31	0.875	A VB	111079.	160.000 NG	1.38
35	162	776	12:56	31	0.900	A BB	315489.	160.000 NG	1.38
36	65	795	13:15	31	0.922	A BB	118969.	160.000 NG	1.38
37	163	827	13:47	31	0.959	A BB	339045.	160.000 NG	1.38
38	152	840	14:00	31	0.974	A BB	432309.	160.000 NG	1.38
39	138	858	14:18	31	0.995	A BB	106244.	160.000 NG	1.38
40	153	867	14:27	31	1.006	A BB	327976.	160.000 NG	1.38
41	184	872	14:32	31	1.012	A BB	75216.	160.000 NG	1.38
42	109	880	14:40	31	1.021	A BB	65911.	160.000 NG	1.38
43	168	891	14:51	31	1.034	A BB	418269.	160.000 NG	1.38
44	165	896	14:56	31	1.039	A BB	131640.	160.000 NG	1.38
45	165	837	13:57	31	0.971	A BB	90996.	160.000 NG	1.38
46	149	933	15:33	31	1.082	A BV	379250.	160.000 NG	1.38
47	204	942	15:42	31	1.093	A BB	196084.	160.000 NG	1.38
48	166	943	15:43	31	1.094	A BB	370839.	160.000 NG	1.38
49	138	951	15:51	31	1.103	A BB	111861.	160.000 NG	1.38
50	172	761	12:41	31	0.883	A BB	372875.	160.000 NG	1.38

AR301881

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:26	1.00	0.902	1.00	160.00	160.00	1.398	1.398	1.00
3	6:38	1.00	0.930	1.00	160.00	160.00	1.251	1.251	1.00
4	6:46	1.00	0.949	1.00	160.00	160.00	1.189	1.189	1.00
5	7:04	1.00	0.991	1.00	160.00	160.00	1.255	1.255	1.00
6	7:10	1.00	1.005	1.00	160.00	160.00	1.304	1.304	1.00
7	7:27	1.00	1.044	1.00	160.00	160.00	0.752	0.752	1.00
8	7:35	1.00	1.063	1.00	160.00	160.00	1.258	1.258	1.00
9	7:41	1.00	1.077	1.00	160.00	160.00	1.160	1.160	1.00
10	7:47	1.00	1.091	1.00	160.00	160.00	1.697	1.697	1.00
11	8:01	1.00	1.124	1.00	160.00	160.00	1.209	1.209	1.00
12	8:07	1.00	1.138	1.00	160.00	160.00	0.970	0.970	1.00
13	8:15	1.00	1.157	1.00	160.00	160.00	0.586	0.586	1.00
14	8:24	1.00	0.897	1.00	160.00	160.00	1.585	1.585	1.00
15	4:44	1.00	0.664	1.00	160.00	160.00	1.302	1.302	1.00
16	10:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:27	1.00	0.844	1.00	160.00	160.00	0.387	0.387	1.00
18	8:58	1.00	0.895	1.00	160.00	160.00	0.720	0.720	1.00
19	9:10	1.00	0.915	1.00	160.00	160.00	0.212	0.212	1.00
20	9:13	1.00	0.920	1.00	160.00	160.00	0.365	0.365	1.00
21	9:31	1.00	0.950	1.00	160.00	160.00	0.254	0.254	1.00
22	9:28	1.00	0.945	1.00	160.00	160.00	0.471	0.471	1.00
23	9:42	1.00	0.968	1.00	160.00	160.00	0.310	0.310	1.00
24	9:55	1.00	0.990	1.00	160.00	160.00	0.313	0.313	1.00
25	10:05	1.00	1.007	1.00	160.00	160.00	0.799	0.799	1.00
26	10:13	1.00	1.020	1.00	160.00	160.00	0.450	0.450	1.00
27	10:29	1.00	1.047	1.00	160.00	160.00	0.172	0.172	1.00
28	11:22	1.00	1.135	1.00	160.00	160.00	0.305	0.305	1.00
29	11:44	1.00	1.171	1.00	160.00	160.00	0.580	0.580	1.00
30	8:24	1.00	0.839	1.00	160.00	160.00	0.502	0.502	1.00
31	14:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:17	1.00	0.855	1.00	160.00	160.00	0.197	0.197	1.00
33	12:29	1.00	0.869	1.00	160.00	160.00	0.272	0.272	1.00
34	12:34	1.00	0.875	1.00	160.00	160.00	0.312	0.312	1.00
35	12:56	1.00	0.900	1.00	160.00	160.00	0.885	0.885	1.00
36	13:15	1.00	0.922	1.00	160.00	160.00	0.334	0.334	1.00
37	13:47	1.00	0.959	1.00	160.00	160.00	0.951	0.951	1.00
38	14:00	1.00	0.974	1.00	160.00	160.00	1.213	1.213	1.00
39	14:18	1.00	0.995	1.00	160.00	160.00	0.298	0.298	1.00
40	14:27	1.00	1.006	1.00	160.00	160.00	0.920	0.920	1.00
41	14:32	1.00	1.012	1.00	160.00	160.00	0.211	0.211	1.00
42	14:40	1.00	1.021	1.00	160.00	160.00	0.185	0.185	1.00
43	14:51	1.00	1.034	1.00	160.00	160.00	1.174	1.174	1.00
44	14:56	1.00	1.039	1.00	160.00	160.00	0.369	0.369	1.00
45	13:57	1.00	0.971	1.00	160.00	160.00	0.255	0.255	1.00
46	15:33	1.00	1.082	1.00	160.00	160.00	1.064	1.064	1.00
47	15:42	1.00	1.093	1.00	160.00	160.00	0.550	0.550	1.00
48	15:43	1.00	1.094	1.00	160.00	160.00	1.041	1.041	1.00
49	15:51	1.00	1.103	1.00	160.00	160.00	0.314	0.314	1.00
50	12:41	1.00	0.883	1.00	160.00	160.00	1.046	1.046	1.00

130

AR301882

File: S080707.TI
 /07/90 13:38:00

Sample: SSTD160 160 NG BNA STD
 Instr.: INSTR 5100SP

Formula: S080701

Instrument: 5100SP

Weight: 0.006

Submitted by: 080790

Analyst: BKR

Acct. No.: RFW

$$F = \frac{\text{JUNT} \times \text{AREA} \times \text{REF AMNT}}{(\text{REF AREA} \times \text{RESP FACT})}$$

R sp. fac. from Library Entry

No Name

1	CS55	2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #3
2	CI60	PHENANTHRENE-D10	INTERNAL STANDARD #4
3	C610	4,6-DINITRO-2-METHYLPHENOL	
4	C615	N-NITROSODIPHENYLAMINE	
5	C625	4-BROMOPHENYL-PHENYLETHER	
6	C630	HEXACHLOROBENZENE	
7	C635	PENTACHLOROPHENOL	
8	C640	PHENANTHRENE	
9	C645	ANTHRACENE	
10	C650	DI-N-BUTYLPHTHALATE	
11	C655	FLUORANTHENE	
12	CI70	CHRYSENE-D12	INTERNAL STANDARD #5
13	C715	PYRENE	
14	C720	BUTYLBENZYLPHTHALATE	
15	C725	3,3'-DICHLOROBENZIDINE	
16	C730	BENZO(A)ANTHRACENE	
17	C745	BIS(2-ETHYLHEXYL)PHTHALATE	
18	C740	CHRYSENE	
19	CS30	P-TERPHENYL-D14	SURROGATE STANDARD #6
20	CI75	PERYLENE-D12	INTERNAL STANDARD #6
21	C760	DI-N-OCTYLPHTHALATE	
22	C765	BENZO(B)FLUORANTHENE	
23	C770	BENZO(K)FLUORANTHENE	
24	C775	BENZO(A)PYRENE	
25	C780	INDENO(1,2,3-CD)PYRENE	
26	C785	DIBENZ(A,H)ANTHRACENE	
27	C790	BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	982	16:22	31	1.139	A BB	52234.	160.000 NG	1.38
52	188	1081	18:01	52	1.000	A BB	136646.	40.000 NG	0.34
53	198	957	15:57	52	0.885	A BB	86350.	160.000 NG	1.38
54	169	961	16:01	52	0.889	A BB	277317.	160.000 NG	1.38
55	248	1015	16:55	52	0.939	A BB	99392.	160.000 NG	1.38
56	284	1038	17:18	52	0.960	A BB	119418.	160.000 NG	1.38
57	266	1063	17:43	52	0.983	A BB	74936.	160.000 NG	1.38
58	178	1084	18:04	52	1.003	A BV	457420.	160.000 NG	1.38
59	178	1090	18:10	52	1.008	A VB	489880.	160.000 NG	1.38
60	149	1154	19:14	52	1.068	A BV	498330.	160.000 NG	1.38
61	202	1221	20:21	52	1.130	A BV	442314.	160.000 NG	1.38
62	240	1374	22:54	62	1.000	A BB	199818.	40.000 NG	0.34
63	202	1244	20:44	62	0.905	A BV	502275.	160.000 NG	1.38
64	149	1305	21:45	62	0.950	A BB	381531.	160.000 NG	1.38
65	252	1365	22:45	62	0.993	A BB	253754.	160.000 NG	1.38
66	228	1372	22:52	62	0.999	A VV	608259.	160.000 NG	1.38

AR301883

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
67	149	1366	22:46	62	0.994	A VV	472972.	160.000 NG	1.38
68	228	1378	22:58	62	1.003	A VB	543699.	160.000 NG	1.38
69	244	1256	20:56	62	0.914	A BB	415684.	160.000 NG	1.38
70	264	1609	26:49	70	1.000	A BB	164076.	40.000 NG	0.34
71	149	1447	24:07	70	0.899	A BB	748631.	160.000 NG	1.38
72	252	1535	25:35	70	0.954	A BV	758583.	160.000 NG	1.38
73	252	1540	25:40	70	0.957	A VB	593420.	160.000 NG	1.38
74	252	1599	26:39	70	0.994	A BB	690158.	160.000 NG	1.38
75	276	1888	31:28	70	1.173	A BB	820604.	160.000 NG	1.38
76	278	1888	31:28	70	1.173	A BB	630781.	160.000 NG	1.38
77	276	1969	32:49	70	1.224	A BB	676804.	160.000 NG	1.38

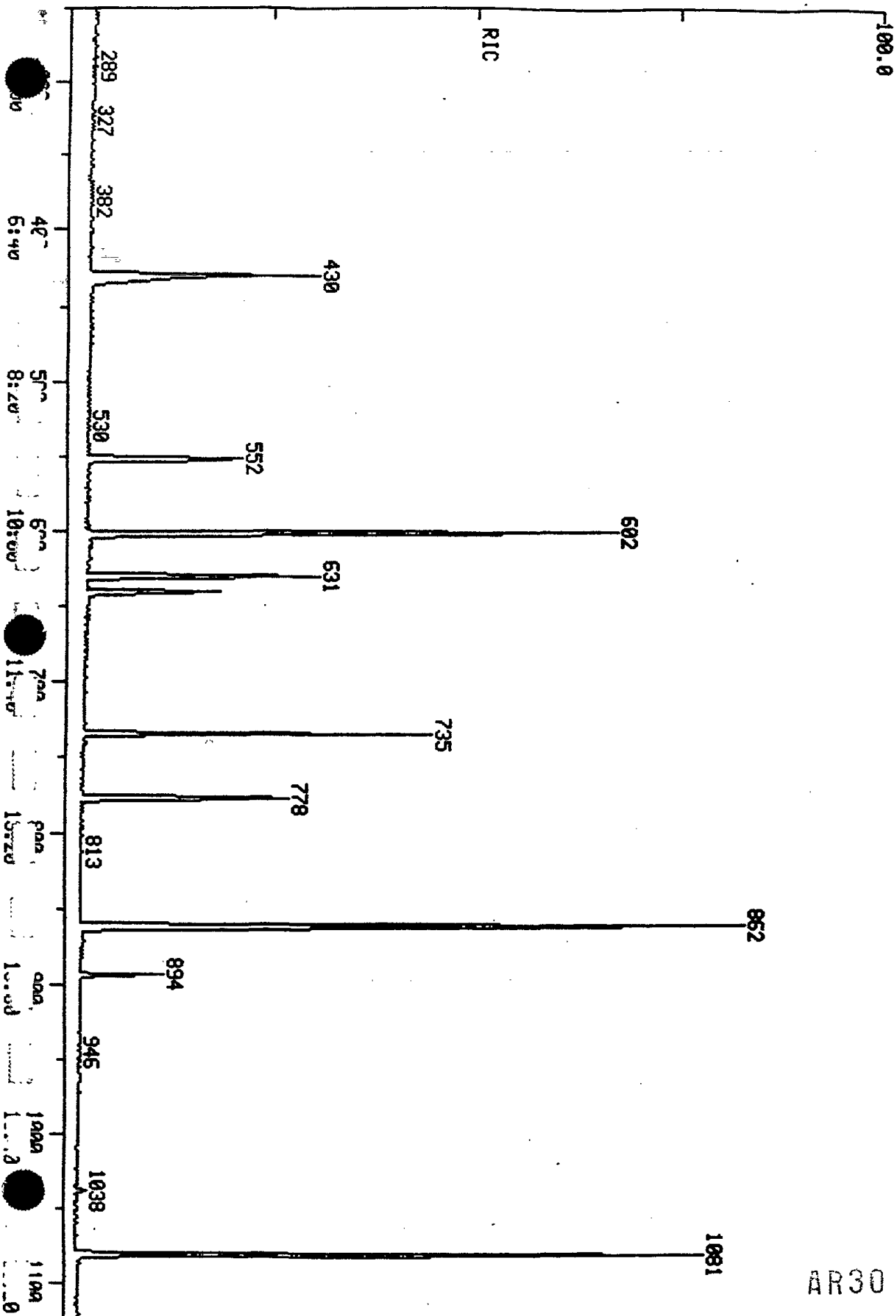
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:22	1.00	1.139	1.00	160.00	160.00	0.147	0.147	1.00
52	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	15:57	1.00	0.885	1.00	160.00	160.00	0.158	0.158	1.00
54	16:01	1.00	0.889	1.00	160.00	160.00	0.507	0.507	1.00
55	16:55	1.00	0.939	1.00	160.00	160.00	0.182	0.182	1.00
56	17:18	1.00	0.960	1.00	160.00	160.00	0.218	0.218	1.00
57	17:43	1.00	0.983	1.00	160.00	160.00	0.137	0.137	1.00
58	18:04	1.00	1.003	1.00	160.00	160.00	0.837	0.837	1.00
59	18:10	1.00	1.008	1.00	160.00	160.00	0.896	0.896	1.00
60	19:14	1.00	1.068	1.00	160.00	160.00	0.912	0.912	1.00
61	20:21	1.00	1.130	1.00	160.00	160.00	0.809	0.809	1.00
62	22:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	20:44	1.00	0.905	1.00	160.00	160.00	0.628	0.628	1.00
64	21:45	1.00	0.950	1.00	160.00	160.00	0.477	0.477	1.00
65	22:45	1.00	0.993	1.00	160.00	160.00	0.317	0.317	1.00
66	22:52	1.00	0.999	1.00	160.00	160.00	0.761	0.761	1.00
67	22:46	1.00	0.994	1.00	160.00	160.00	0.592	0.592	1.00
68	22:58	1.00	1.003	1.00	160.00	160.00	0.680	0.680	1.00
69	20:56	1.00	0.914	1.00	160.00	160.00	0.520	0.520	1.00
70	26:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	24:07	1.00	0.899	1.00	160.00	160.00	1.141	1.141	1.00
72	25:35	1.00	0.954	1.00	160.00	160.00	1.156	1.156	1.00
73	25:40	1.00	0.957	1.00	160.00	160.00	0.904	0.904	1.00
74	26:39	1.00	0.994	1.00	160.00	160.00	1.052	1.052	1.00
75	31:28	1.00	1.173	1.00	160.00	160.00	1.250	1.250	1.00
76	31:28	1.00	1.173	1.00	160.00	160.00	0.961	0.961	1.00
77	32:49	1.00	1.224	1.00	160.00	160.00	1.031	1.031	1.00

AR301884

133

RIC
08/07/90 19:01:00
SAMPLE: STD20 STANDARD CHLORINE
COND5.: INSTR 5100SP
RANGE: G 1,1750 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080713 #1
CALI: 5080713 #2
SCANS 250 TO 1125
OUT OF 250 TO 1750



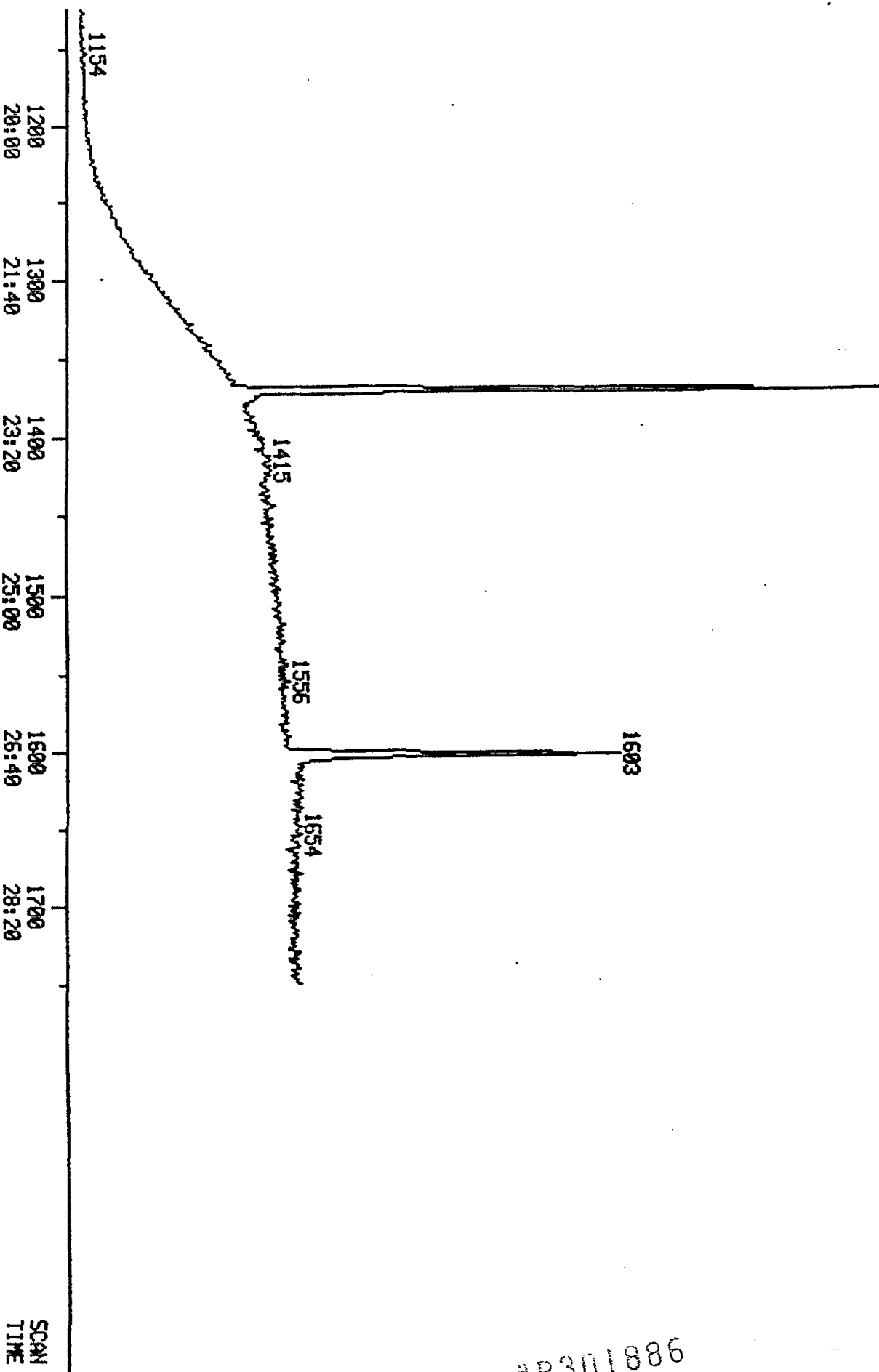
AR301885

134

100.0

RIC
08/07/90 19:01:00
SAMPLE: SSTD20 STANDARD CHLORINE
COND5.: INSTR 5100SP
RANGE: G 1.1750 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 5080713 #1
CALI: 5080713 #2
SCANS 1125 TO 1750
OUT OF 250 TO 1750

62848.



AR301886

D a: S080713.TI

07/90 19:01:00

Sample: SSTD20 STANDARD CHLORINE

C ds.: INSTR 5100SP

Formula: S080703

Submitted by: 080790

Instrument: 5100SP

Analyst: CDT

Weight: 0.000

Acct. No.: RFW

AL_LUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

1	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	N-NITROSOMETHYLAMINE	
	ANILINE	
4	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
5	1,3,5-TRICHLOROBENZENE	
	1,2,3-TRICHLOROBENZENE	
	M-CHLORONITROBENZENE	
8	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
262	1,2,4,5-TETRACHLOROBENZENE	
	1,2,3,4-TETRACHLOROBENZENE	
11	PENTACHLOROBENZENE	
12	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
	BENZIDINE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
	152	430	7:10	1	1.000	A BB	10526.	40.000 NG	14.29
	NOT FOUND								
	NOT FOUND								
	136	602	10:02	4	1.000	A BB	44164.	40.000 NG	14.29
	180	552	9:12	4	0.917	A BB	7441.	20.000 NG	7.15
6	180	631	10:31	4	1.048	A BB	7746.	20.000 NG	7.15
7	157	641	10:41	4	1.065	A BB	2830.	20.000 NG	7.15
	164	862	14:22	8	1.000	A BB	28496.	40.000 NG	14.29
	216	735	12:15	8	0.853	A BB	9322.	20.000 NG	7.15
10	216	777	12:57	8	0.901	A BB	6796.	20.000 NG	7.15
	250	894	14:54	8	1.037	A BB	2338.	20.000 NG	7.15
	188	1081	18:01	12	1.000	A BB	37767.	40.000 NG	14.29
13	NOT FOUND								

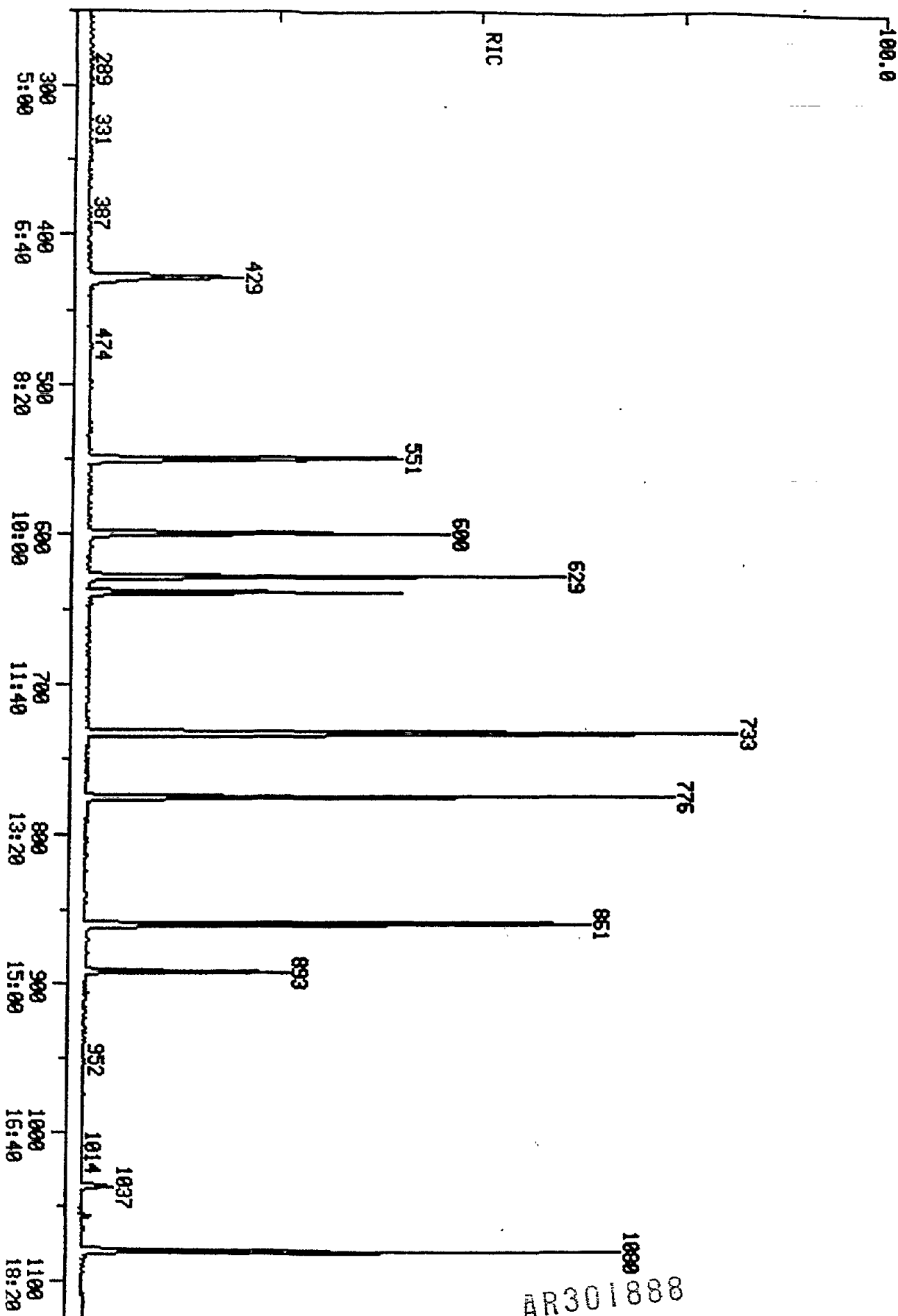
	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	2:58		0.415						
1	6:33		0.916						
4	10:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	9:12	1.00	0.917	1.00	20.00	20.00	0.337	0.337	1.00
	10:31	1.00	1.048	1.00	20.00	20.00	0.351	0.351	1.00
	10:41	1.00	1.065	1.00	20.00	20.00	0.128	0.128	1.00
8	14:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
	12:15	1.00	0.853	1.00	20.00	20.00	0.654	0.654	1.00
	12:57	1.00	0.901	1.00	20.00	20.00	0.477	0.477	1.00
11	14:54	1.00	1.037	1.00	20.00	20.00	0.484	0.516	1.00
	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
	20:31		1.140						

AR301887

136

RIC
08/07/90 16:01:00
SAMPLE: SSTDS0 STANDARD CHLORINE 50MG STD
COND.: INSTR 5100SP
RANGE: G 1.2205 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080709 #1
CALI: SCTAB #2
SCANS 250 TO 1125
OUT OF 250 TO 2000



AR301888

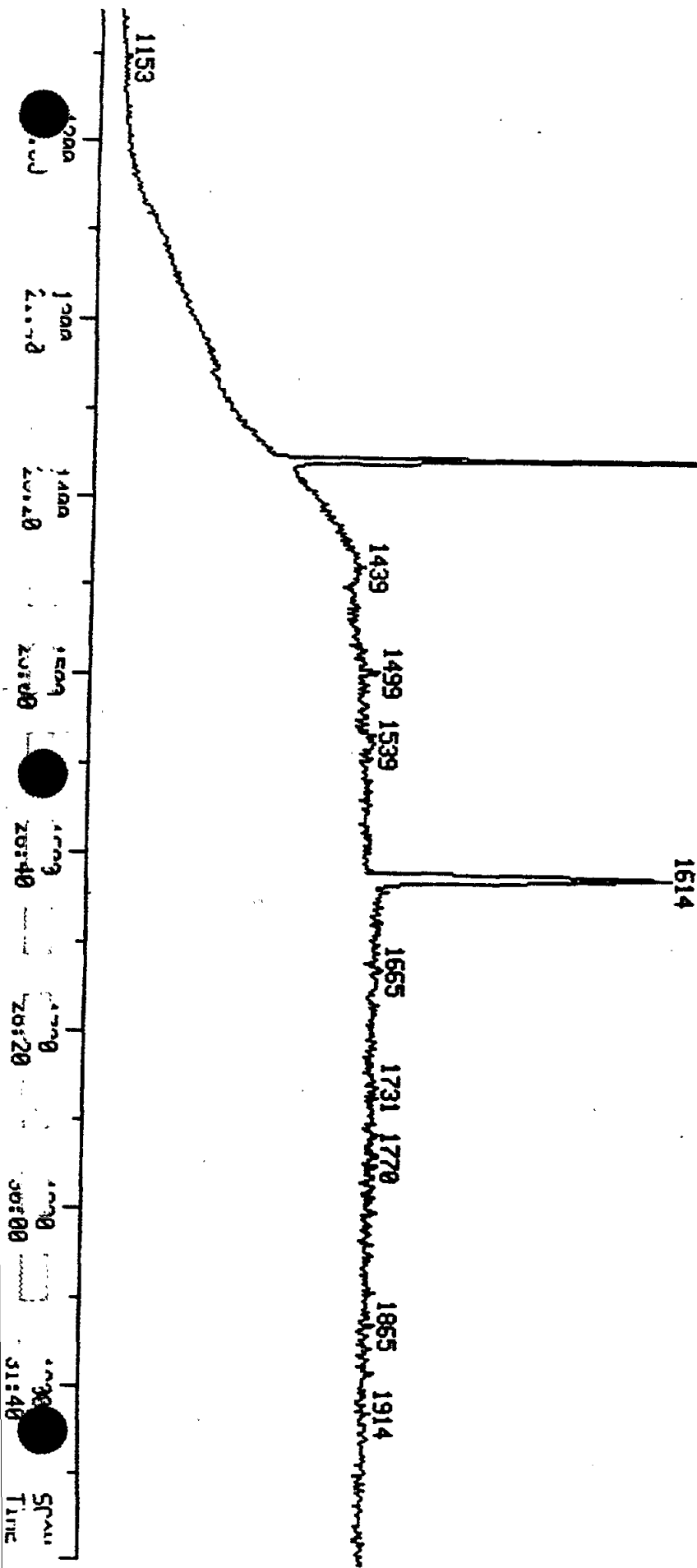
137

RIC
08/07/90 16:01:00
SAMPLE: SSTDS0 STANDARD CHLORINE 500G STD
COND.S.: INSTR 5100SP
DATA: 5080709 #1
CALL: SCTAB #2
SCANS 1125 TO 2000
OUT OF 250 TO 2000

RANGE: G 1.2206 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

67072.

AR301889



Data: S080709.TI

08/07/90 16:01:00

Sample: SSTD50 STANDARD CHLORINE 50NG STD

Conds.: INSTR 5100SP

Formula: S080701

Instrument: 5100SP

Weight: 0.000

Submitted by: 080790

Analyst: CDT

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
1	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
2	1,3,5-TRICHLOROBENZENE	
3	1,2,3-TRICHLOROBENZENE	
4	M-CHLORONITROBENZENE	
5	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
6	262 1,2,4,5-TETRACHLOROBENZENE	
7	1,2,3,4-TETRACHLOROBENZENE	
8	PENTACHLOROBENZENE	

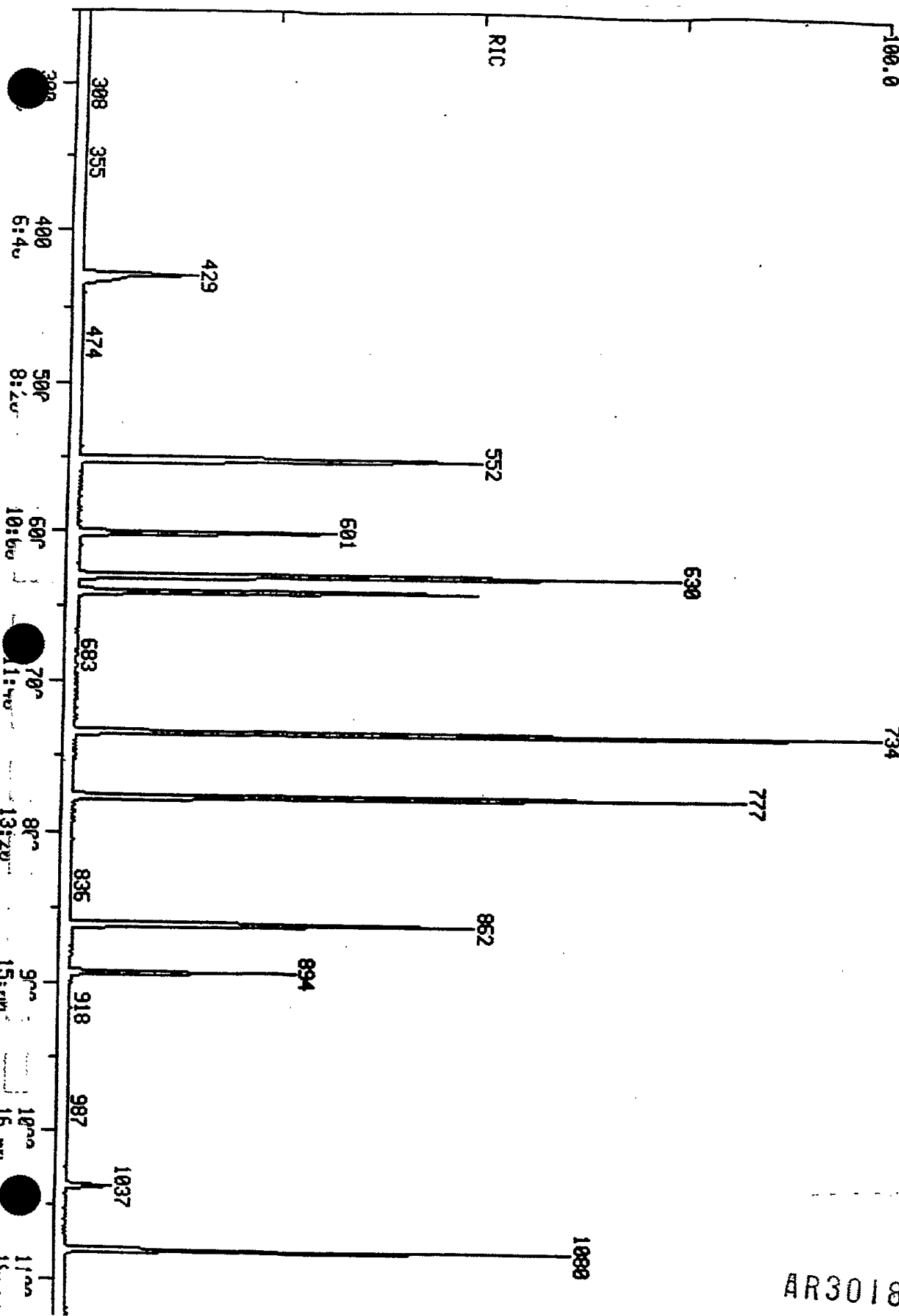
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	600	10:00	1	1.000	A BB	35505.	40.000 NG	10.53
2	180	550	9:10	1	0.917	A BB	14775.	50.000 NG	13.16
3	180	629	10:29	1	1.048	A BB	15821.	50.000 NG	13.16
4	157	639	10:39	1	1.065	A BB	7374.	50.000 NG	13.16
5	164	861	14:21	5	1.000	A BB	25604.	40.000 NG	10.53
6	216	733	12:13	5	0.851	A BB	20305.	50.000 NG	13.16
7	216	776	12:56	5	0.901	A BB	15525.	50.000 NG	13.16
8	250	893	14:53	5	1.037	A BB	6166.	50.000 NG	13.16

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	10:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	9:10	1.00	0.917	1.00	50.00	50.00	0.333	0.333	1.00
3	10:29	1.00	1.048	1.00	50.00	50.00	0.356	0.356	1.00
4	10:39	1.00	1.065	1.00	50.00	50.00	0.166	0.166	1.00
5	14:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	12:13	1.00	0.851	1.00	50.00	50.00	0.634	0.634	1.00
7	12:56	1.00	0.901	1.00	50.00	50.00	0.485	0.485	1.00
8	14:53	1.00	1.037	1.00	50.00	50.00	0.193	0.193	1.00

AR301890

139

RIC
 08/07/90 16:53:00
 SAMPLE: SSTDB0 STANDARD CHLORINE 80% STD
 COND.: INSTR 5100SP
 RANGE: G 1,1750 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
 DATA: 5080710 #1
 CALL: 5080710 #2
 SCANS 250 TO 1125
 OUT OF 250 TO 1750

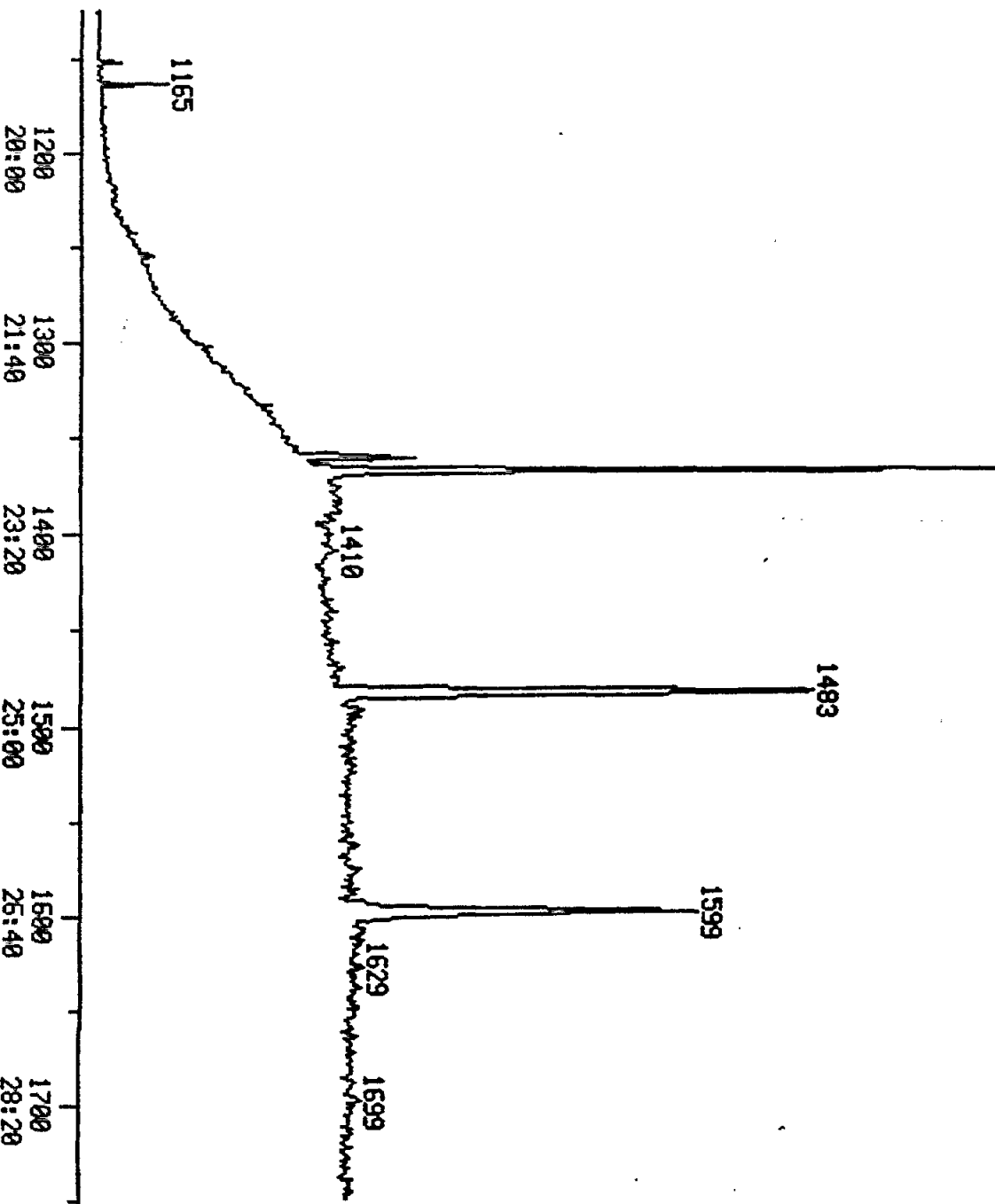


AR301891

140

RIC
08/07/90 16:53:00
SAMPLE: SST080 STANDARD CHLORINE 80NG STD
COND.: INSTR 51005P
RANGE: G 1,1750 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 5080710 #1
CALI: 5080710 #2
SCANS 1125 TO 1750
OUT OF 250 TO 1750

67584.



AR301892

I ta: S080710.TI

07/90 16:53:00

Sample: SSTDB0 STANDARD CHLORINE BONG STD

Cards.: INSTR 5100SP

Formula: S080703

Submitted by: 080790

Instrument: 5100SP

Analyst: CDT

Weight: 0.000

Acct. No.: RFW

A JUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
 Resp. fac. from Library Entry

1	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	N-NITROSOMETHYLAMINE	
3	ANILINE	
4	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
5	1,3,5-TRICHLOROBENZENE	
6	1,2,3-TRICHLOROBENZENE	
7	M-CHLORONITROBENZENE	
8	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
9	26Z 1,2,4,5-TETRACHLOROBENZENE	
10	1,2,3,4-TETRACHLOROBENZENE	
11	PENTACHLOROBENZENE	
12	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
13	BENZIDINE	

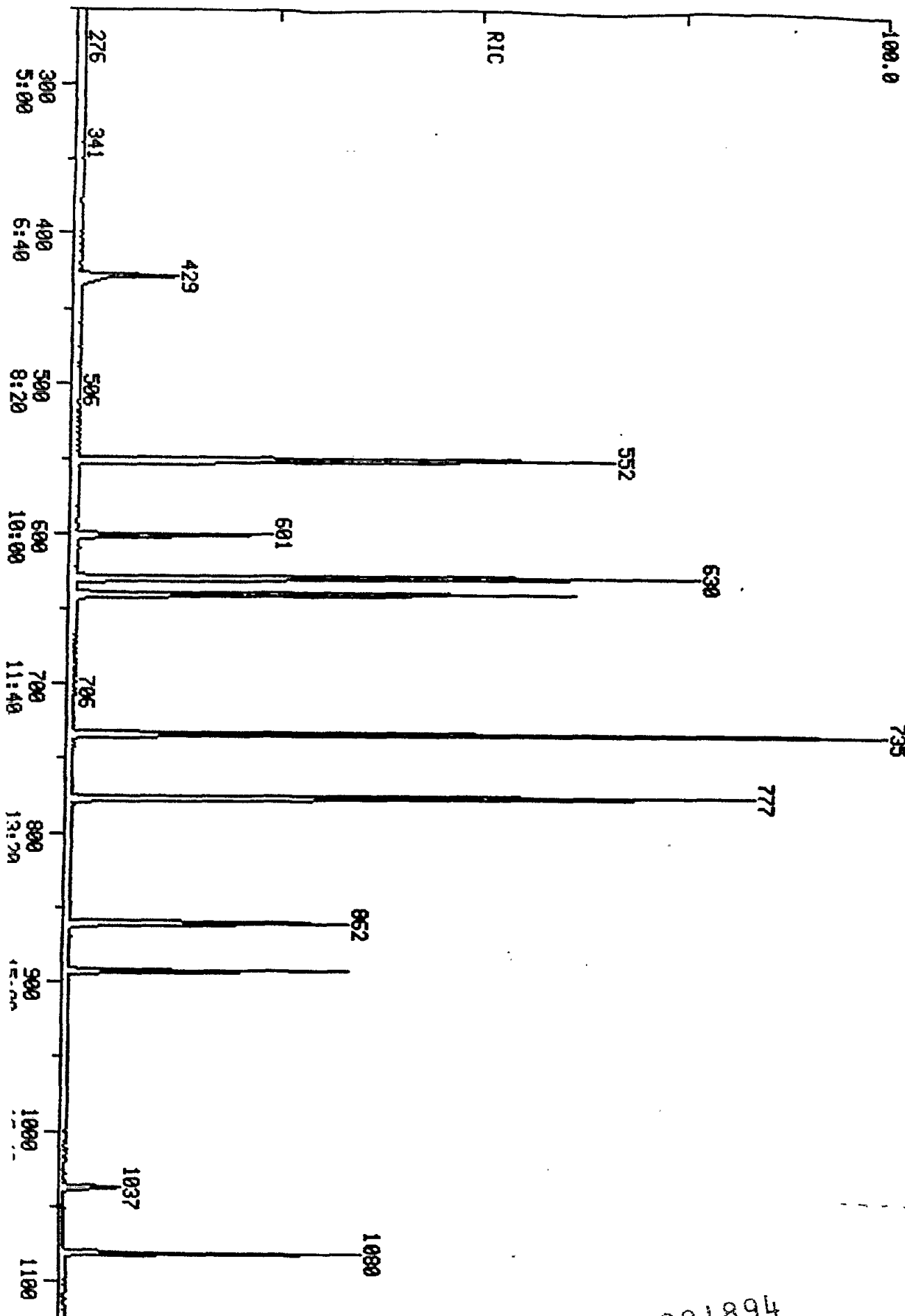
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	429	7:09	1	1.000	A BB	6599.	40.000 NG	6.25
2	NOT FOUND								
3	NOT FOUND								
4	136	601	10:01	4	1.000	A BB	27254.	40.000 NG	6.25
5	180	552	9:12	4	0.918	A BB	19285.	80.000 NG	12.50
6	180	630	10:30	4	1.048	A BB	20110.	80.000 NG	12.50
7	157	641	10:41	4	1.067	A BB	9107.	80.000 NG	12.50
8	164	862	14:22	8	1.000	A BB	19256.	40.000 NG	6.25
9	216	734	12:14	8	0.852	A BB	24841.	80.000 NG	12.50
10	216	777	12:57	8	0.901	A BB	19625.	80.000 NG	12.50
11	250	893	14:53	8	1.036	A BB	7246.	80.000 NG	12.50
12	198	1080	18:00	12	1.000	A BB	29924.	40.000 NG	6.25
13	NOT FOUND								

	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	2:58		0.415						
3	6:33		0.916						
4	10:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	9:12	1.00	0.918	1.00	80.00	80.00	0.354	0.354	1.00
6	10:30	1.00	1.048	1.00	80.00	80.00	0.369	0.369	1.00
7	10:41	1.00	1.067	1.00	80.00	80.00	0.167	0.167	1.00
8	14:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
9	12:14	1.00	0.852	1.00	80.00	80.00	0.645	0.645	1.00
10	12:57	1.00	0.901	1.00	80.00	80.00	0.510	0.510	1.00
11	14:53	1.00	1.036	1.00	80.00	80.00	0.188	0.188	1.00
12	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
13	20:31		1.140						

142

RIC
 08/07/90 17:35:00
 SAMPLE: SSTDI20 STANDARD CHLORINE 120MG STD
 COND5.: INSTR 51005P
 RANGE: G 1,1750 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080711 #1
 CAL: 5080711 #2
 SCANS 250 TO 1125
 OUT OF 250 TO 1750



AR301894

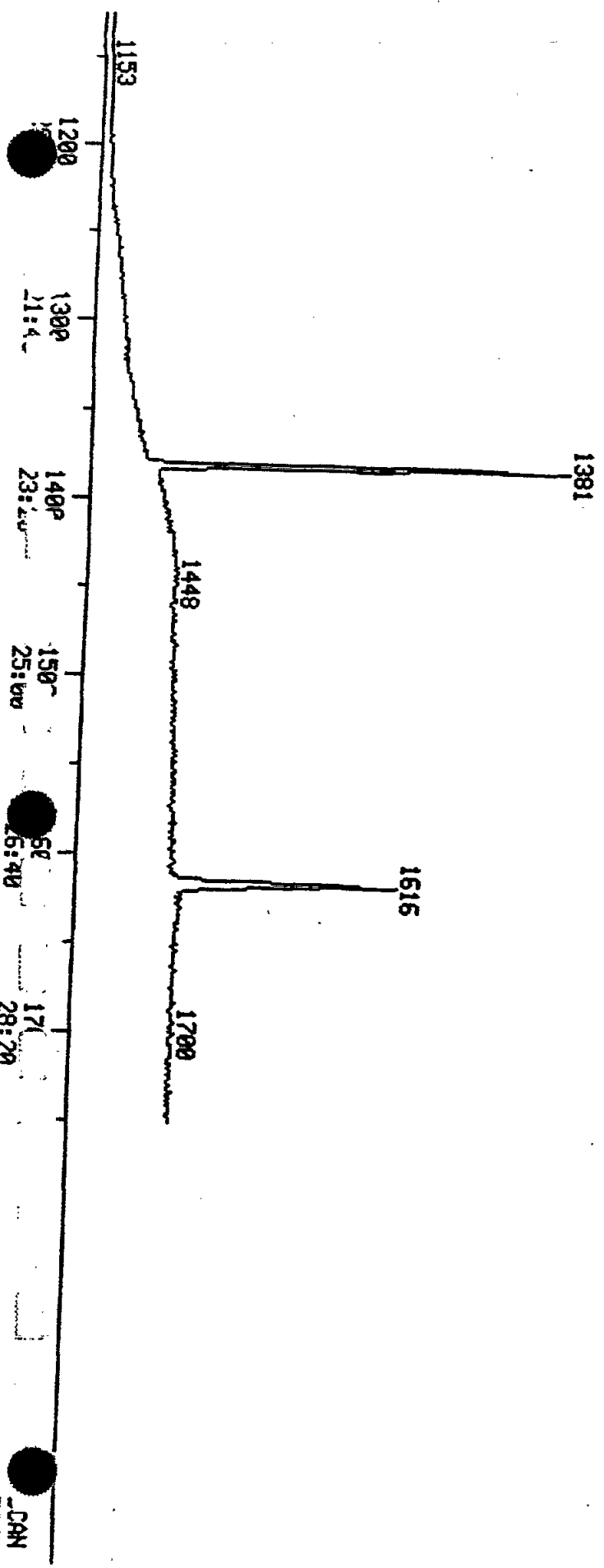
143

100.0

RIC
08/07/90 17:36:00
SAMPLE: SSTD120 STANDARD CHLORINE
COND5.: INSTR 5100SP
RANGE: G 1,1750 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080711 #1
CALL: 5080711 #2
SCANS 1125 TO 1750
OUT OF 250 TO 1750

145920.



AR301895

-CAN
7:10

Data: S080711.T1

08/07/90 17:36:00

Sample: SSTD120 STANDARD CHLORINE 120NG STD

Conds.: INSTR 5100SP

Formula: S080703

Submitted by: 080790

Instrument: 5100SP

Analyst: CDT

Weight: 0.000

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	N-NITROSOMETHYLAMINE	
3	ANILINE	
4	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
5	1,3,5-TRICHLOROBENZENE	
6	1,2,3-TRICHLOROBENZENE	
7	M-CHLORONITROBENZENE	
8	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
9	26Z 1,2,4,5-TETRACHLOROBENZENE	
10	1,2,3,4-TETRACHLOROBENZENE	
11	PENTACHLOROBENZENE	
12	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
13	BENZIDINE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
1	152	429	7:09	1	1.000	A BB	10472.	40.000 NG	4.55
2	NOT FOUND								
3	NOT FOUND								
4	136	601	10:01	4	1.000	A BB	40888.	40.000 NG	4.55
5	180	552	9:12	4	0.918	A BB	44076.	120.000 NG	13.64
6	180	630	10:30	4	1.048	A BB	45738.	120.000 NG	13.64
7	157	641	10:41	4	1.067	A BB	21967.	120.000 NG	13.64
8	164	862	14:22	8	1.000	A BB	28502.	40.000 NG	4.55
9	216	735	12:15	8	0.853	A BB	55594.	120.000 NG	13.64
10	216	777	12:57	8	0.901	A BB	43627.	120.000 NG	13.64
11	250	894	14:54	8	1.037	A BB	15996.	120.000 NG	13.64
12	188	1080	18:00	12	1.000	A BB	40899.	40.000 NG	4.55
13	NOT FOUND								

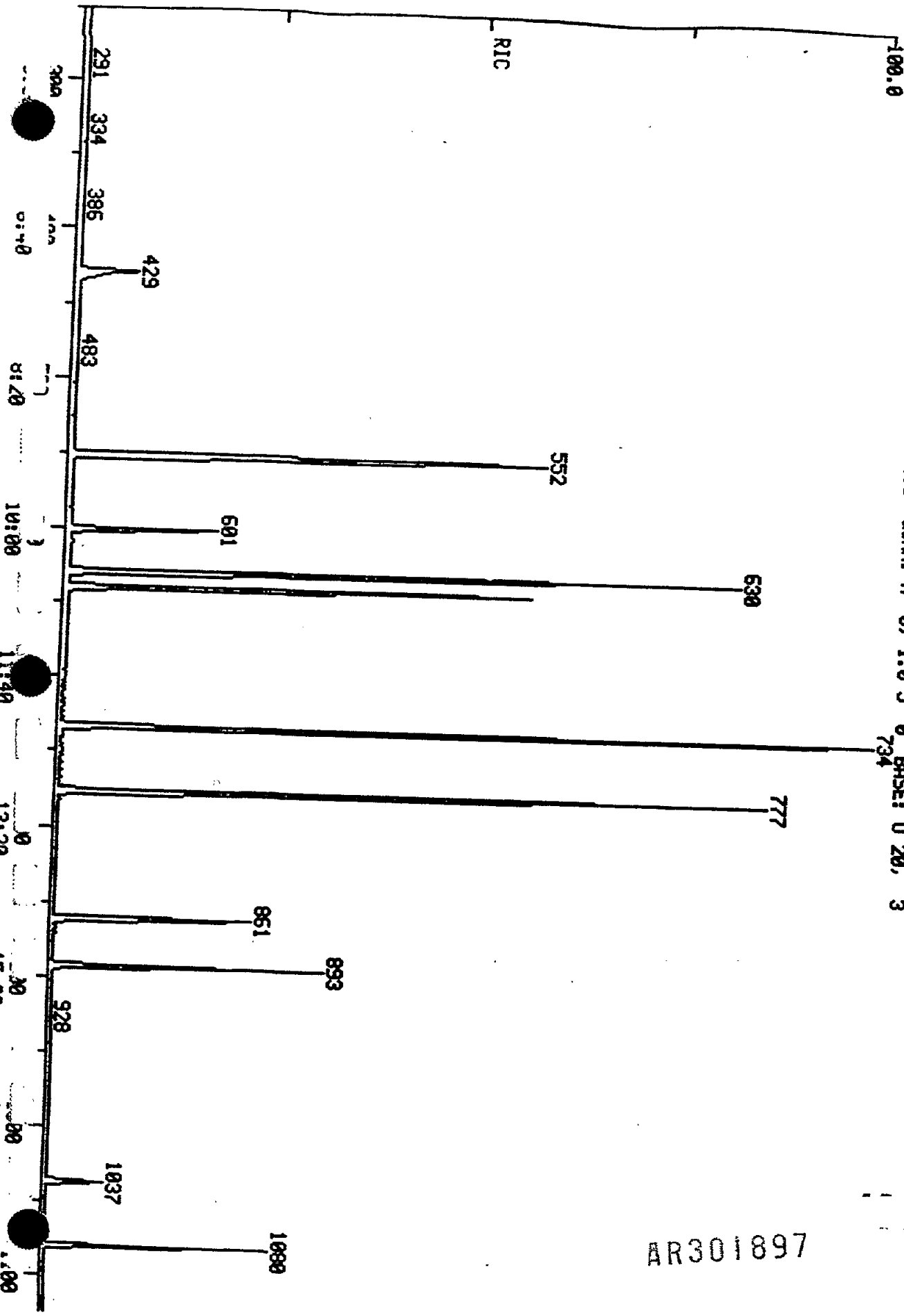
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	2:58		0.415						
3	6:33		0.916						
4	10:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	9:12	1.00	0.918	1.00	120.00	120.00	0.359	0.359	1.00
6	10:30	1.00	1.048	1.00	120.00	120.00	0.373	0.373	1.00
7	10:41	1.00	1.067	1.00	120.00	120.00	0.179	0.179	1.00
8	14:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
9	12:15	1.00	0.853	1.00	120.00	120.00	0.650	0.650	1.00
10	12:57	1.00	0.901	1.00	120.00	120.00	0.510	0.510	1.00
11	14:54	1.00	1.037	1.00	120.00	120.00	0.187	0.187	1.00
12	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
13	20:31		1.140						

AR301896

145

RIC
08/07/90 18:23:00
SAMPLE: 55TD160 STANDARD CHLORINE 160NG STD
COND.: INSTR 5100SP
RANGE: C 1,1750 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080712 #1
CALI: 5080712 #2
SCANS 250 TO 1125
OUT OF 250 TO 1750



AR301897

146

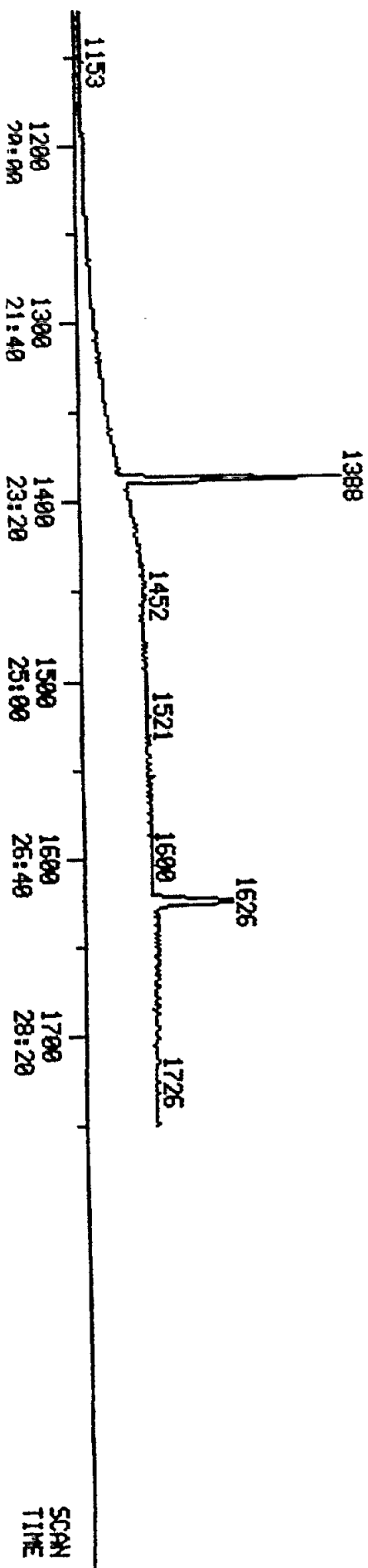
RIC
 08/07/90 18:23:00
 SAMPLE: SSTDI60 STANDARD CHLORINE 160MG STD
 COND5.: INSTR 51005P
 RANGE: G 1,1750 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080712 #1
 CALL: 5080712 #2
 SCANS 1125 TO 1750
 OUT OF 250 TO 1750

100.0

184320.

AR301898



D a: S080712.T1
07/90 18:23:00

Sample: SSTD160 STANDARD CHLORINE 160NG STD

Conditions: INSTR 5100SP

Formula: S080703

Submitted by: 080790

Instrument: 5100SP

Analyst: CDT

Weight: 0.000

Acct. No.: RFW

A UNIT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

Name	
CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2 N-NITROSOMETHYLAMINE	
1 ANILINE	
CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
5 1,3,5-TRICHLOROBENZENE	
4 1,2,3-TRICHLOROBENZENE	
7 M-CHLORONITROBENZENE	
8 CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
9 26Z 1,2,4,5-TETRACHLOROBENZENE	
1 1,2,3,4-TETRACHLOROBENZENE	
PENTACHLOROBENZENE	
12 CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
13 BENZIDINE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
1	152	429	7:09	1	1.000	A BB	10012.	40.000 NG	3.57
	NOT FOUND								
	NOT FOUND								
4	136	601	10:01	4	1.000	A BB	39030.	40.000 NG	3.57
5	180	552	9:12	4	0.918	A BB	54950.	160.000 NG	14.29
6	180	630	10:30	4	1.048	A BB	56764.	160.000 NG	14.29
7	157	641	10:41	4	1.067	A BB	27033.	160.000 NG	14.29
8	164	861	14:21	8	1.000	A BB	25921.	40.000 NG	3.57
9	216	734	12:14	8	0.852	A BB	69766.	160.000 NG	14.29
10	216	777	12:57	8	0.902	A BB	53361.	160.000 NG	14.29
11	250	893	14:53	8	1.037	A BB	19525.	160.000 NG	14.29
12	188	1080	18:00	12	1.000	A BB	35463.	40.000 NG	3.57
13	NOT FOUND								

	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	2:58		0.415						
3	6:33		0.916						
4	10:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	9:12	1.00	0.918	1.00	160.00	160.00	0.352	0.352	1.00
6	10:30	1.00	1.048	1.00	160.00	160.00	0.364	0.364	1.00
7	10:41	1.00	1.067	1.00	160.00	160.00	0.173	0.173	1.00
8	14:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
9	12:14	1.00	0.852	1.00	160.00	160.00	0.673	0.673	1.00
10	12:57	1.00	0.902	1.00	160.00	160.00	0.515	0.515	1.00
11	14:53	1.00	1.037	1.00	160.00	160.00	0.188	0.188	1.00
12	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
	20:31		1.140						

AR301899

148

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100SP

Calibration Date: 08/07/90

Time: 2031

Lab File ID: S080715

Init. Calib. Date(s): 08/07/90 08/07/90

Min RRF50 for SPCC(#) = 0.050

Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol	* 1.444	1.217	15.7 *
bis(2-Chloroethyl)ether	1.336	1.254	6.1
2-Chlorophenol	1.245	1.241	0.3
1,3-Dichlorobenzene	1.383	1.404	-1.5
1,4-Dichlorobenzene	* 1.476	1.498	-1.5 *
Benzyl alcohol	0.733	0.601	18.0
1,2-Dichlorobenzene	1.399	1.433	-2.4
2-Methylphenol	1.210	1.217	-0.6
bis(2-Chloroisopropyl)ether	1.544	1.113	27.9
4-Methylphenol	1.211	1.239	-2.3
N-Nitroso-Di-n-propylamine	# 0.922	0.795	13.8 #
Hexachloroethane	0.657	0.721	-9.7
Nitrobenzene	0.378	0.335	11.4
Isophorone	0.705	0.639	9.4
2-Nitrophenol	* 0.222	0.226	-1.8 *
2,4-Dimethylphenol	0.357	0.330	7.6
Benzoic acid	0.219	0.167	23.7
bis(2-Chloroethoxy)methane	0.461	0.459	0.4
2,4-Dichlorophenol	* 0.300	0.297	1.0 *
1,2,4-Trichlorobenzene	0.329	0.316	4.0
Naphthalene	0.990	1.053	-6.4
4-Chloroaniline	0.417	0.361	13.4
Hexachlorobutadiene	* 0.182	0.156	14.3 *
4-Chloro-3-methylphenol	* 0.294	0.281	4.4 *
2-Methylnaphthalene	0.660	0.677	-2.6
Hexachlorocyclopentadiene	# 0.212	0.153	27.8 #
2,4,6-Trichlorophenol	* 0.314	0.321	-2.2 *
2,4,5-Trichlorophenol	0.325	0.322	0.9
2-Chloronaphthalene	1.017	1.113	-9.4
2-Nitroaniline	0.317	0.278	12.3
Dimethylphthalate	1.125	1.108	1.5
Acenaphthylene	1.556	1.720	-10.5
2,6-Dinitrotoluene	0.299	0.288	3.7
3-Nitroaniline	0.263	0.186	29.3
Acenaphthene	* 1.046	1.164	-11.3 *
2,4-Dinitrophenol	# 0.184	0.151	17.9 #
4-Nitrophenol	# 0.173	0.166	4.0 #

FORM VII SV-1

5/88 Rev.

AR301900

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

149

Lab Name: Roy F. Weston, Inc. Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE RFW Lot: 9008L253

Instrument ID: 5100SP Calibration Date: 08/07/90 Time: 2031

Lab File ID: S080715 Init. Calib. Date(s): 08/07/90 08/07/90

Min RRF50 for SPCC(#) = 0.050

Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.408	1.422	-1.0
2,4-Dinitrotoluene	0.373	0.380	-1.9
Diethylphthalate	1.164	1.178	-1.2
4-Chlorophenyl-phenylether	0.577	0.505	12.5
Fluorene	1.191	1.252	-5.1
4-Nitroaniline	0.239	0.206	13.8
4,6-Dinitro-2-methylphenol	0.132	0.124	6.1
N-Nitrosodiphenylamine (1)	* 0.464	0.467	-0.6 *
4-Bromophenyl-phenylether	0.185	0.183	1.1
Hexachlorobenzene	0.232	0.273	-17.7
Pentachlorophenol	* 0.143	0.150	-4.9 *
Phenanthrene	0.922	1.044	-13.2
Anthracene	1.008	1.227	-21.7
Di-n-Butylphthalate	1.133	1.631	-44.0
Fluoranthene	* 0.938	1.140	-21.5 *
Pyrene	0.935	0.856	8.4
Butylbenzylphthalate	0.603	0.607	-0.7
3,3'-Dichlorobenzidine	0.285	0.213	25.3
Benzo(a)anthracene	1.063	1.155	-8.7
Chrysene	0.995	1.138	-14.4
bis(2-Ethylhexyl)phthalate	0.833	0.913	-9.6
Di-n-Octyl phthalate	* 1.587	1.930	-21.6 *
Benzo(b)fluoranthene	1.273	1.293	-1.6
Benzo(k)fluoranthene	1.121	1.263	-12.7
Benzo(a)pyrene	* 1.117	1.157	-3.6 *
Indeno(1,2,3-cd)pyrene	1.077	1.099	-2.0
Dibenzo(a,h)anthracene	0.850	0.881	-3.6
Benzo(g,h,i)perylene	0.912	0.916	-0.4
=====			
Nitrobenzene-d5	0.476	0.429	9.9
2-Fluorobiphenyl	1.236	1.462	-18.3
p-Terphenyl-d14	0.719	0.674	6.3
Phenol-d5	1.588	1.348	15.1
2-Fluorophenol	1.307	1.101	15.8
2,4,6-Tribromophenol	0.162	0.142	12.3

(1) Cannot be separated from Diphenylamine

FORM VII SV-2

Rev.

AR301901

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

150

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100SP

Calibration Date: 08/07/90

Time: 2122

Lab File ID: S080716

Init. Calib. Date(s): 08/07/90 08/07/90

Min RRF50 for SPCC(#) = 0.050

Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
1,2,3-Trichlorobenzene	0.363	0.353	2.8
1,3,5-Trichlorobenzene	0.347	0.345	0.6
1,2,4,5-Tetrachlorobenzene	0.651	0.621	4.6
1,2,3,4-Tetrachlorobenzene	0.499	0.478	4.2
Pentachlorobenzene	0.184	0.183	0.5
1-Chloro-3-nitrobenzene	0.163	0.175	-7.4

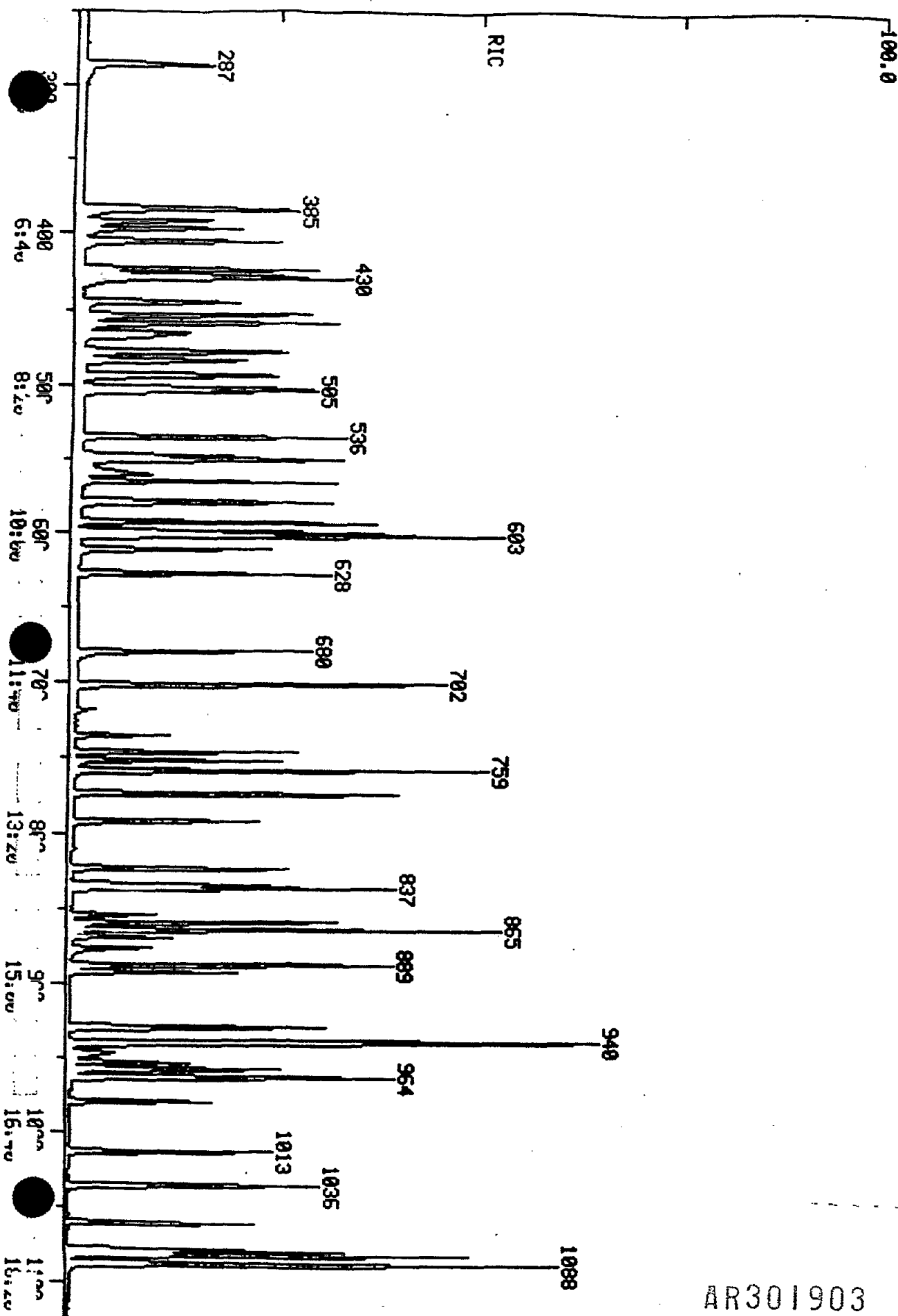
FORM VII SV-1

5/88 Rev.

AR301902

151

RIC
 08/07/90 20:31:00
 SAMPLE: 551050 50NG BNA STD
 COND.: INSTR 51005P
 RANGE: G 1,2029 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3
 DATA: 5000715 #1
 CAL: 5000715 #2
 SCANS 250 TO 1125
 OUT OF 250 TO 2000



AR301903

152

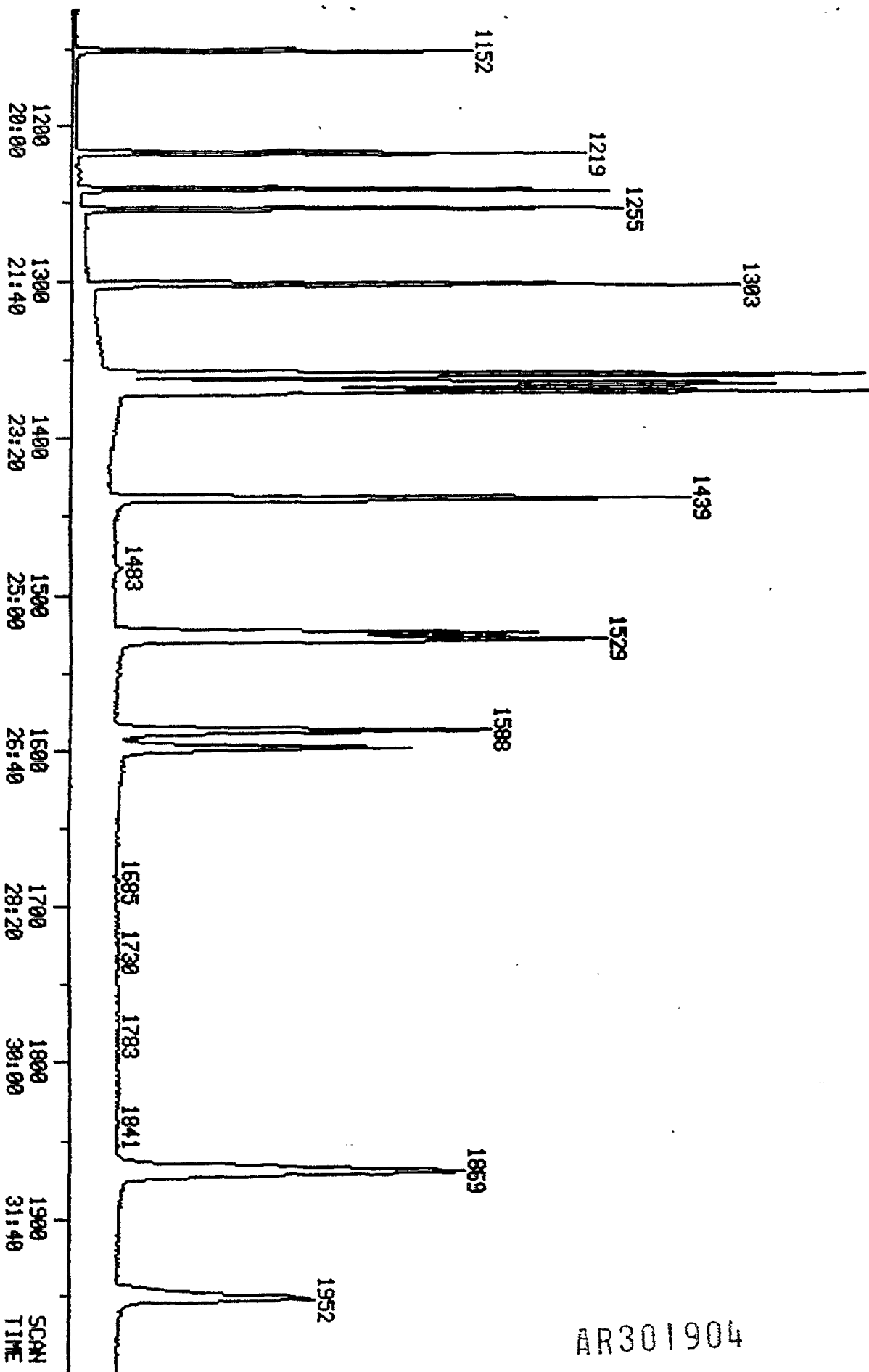
RIC
08/07/90 20:31:00
SAMPLE: SST050 50NG BNA STD
COND.: INSTR 5100SP
RANGE: C 1,2029 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080715 #1
CALI: 5080715 #2

SCANS 1125 TO 2000
OUT OF 250 TO 2000

100.0

338432.



AR301904

I :a: S080715.TI

On/07/90 20:31:00

Sample: SSTD50 50NG BNA STD

Std.: INSTR 5100SP

Formula: S080714

Submitted by: 080790

Instrument: 5100SP

Analyst: EWS

Weight: 0.000

Acct. No.: RFW

A IUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301905

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	428	7:08	1	1.000	A BB	32898.	40.000 NG	1.06
2	94	385	6:25	1	0.900	A BV	50030.	50.000 NG	1.32
3	93	398	6:38	1	0.930	A VV	51575.	50.000 NG	1.32
4	128	406	6:46	1	0.949	A BB	51036.	50.000 NG	1.32
5	146	424	7:04	1	0.991	A BV	57749.	50.000 NG	1.32
6	146	430	7:10	1	1.005	A VB	61590.	50.000 NG	1.32
7	108	446	7:26	1	1.042	A BV	24695.	50.000 NG	1.32
8	146	454	7:34	1	1.061	A BB	58931.	50.000 NG	1.32
9	108	460	7:40	1	1.075	A VB	50028.	50.000 NG	1.32
10	45	466	7:46	1	1.089	A BB	45763.	50.000 NG	1.32
11	108	478	7:58	1	1.117	A BB	50946.	50.000 NG	1.32
12	70	484	8:04	1	1.131	A BB	32692.	50.000 NG	1.32
13	117	495	8:15	1	1.157	A BB	29666.	50.000 NG	1.32
14	99	384	6:24	1	0.897	A BB	55433.	50.000 NG	1.32
15	112	286	4:46	1	0.668	A BB	45285.	50.000 NG	1.32
16	136	600	10:00	16	1.000	A BB	124891.	40.000 NG	1.06
17	77	505	8:25	16	0.842	A BB	52308.	50.000 NG	1.32
18	82	536	8:56	16	0.893	A BB	99688.	50.000 NG	1.32
19	139	549	9:09	16	0.915	A BB	35238.	50.000 NG	1.32
20	107	551	9:11	16	0.918	A BB	51564.	50.000 NG	1.32
21	122	561	9:21	16	0.935	A VB	26000.	50.000 NG	1.32
22	93	566	9:26	16	0.943	A BB	71650.	50.000 NG	1.32
23	162	580	9:40	16	0.967	A BB	46404.	50.000 NG	1.32
24	180	594	9:54	16	0.990	A BB	49324.	50.000 NG	1.32
25	128	603	10:03	16	1.005	A BB	164355.	50.000 NG	1.32
26	127	612	10:12	16	1.020	A BB	56426.	50.000 NG	1.32
27	225	628	10:28	16	1.047	A BB	24399.	50.000 NG	1.32
28	107	680	11:20	16	1.133	A BB	43809.	50.000 NG	1.32
29	142	702	11:42	16	1.170	A BB	105666.	50.000 NG	1.32
30	82	503	8:23	16	0.838	A BB	66919.	50.000 NG	1.32
31	164	860	14:20	31	1.000	A BB	61980.	40.000 NG	1.06
32	237	736	12:16	31	0.856	A BB	11888.	50.000 NG	1.32
33	196	747	12:27	31	0.869	A BV	24884.	50.000 NG	1.32
34	196	752	12:32	31	0.874	A VB	24969.	50.000 NG	1.32
35	162	774	12:54	31	0.900	A BB	86228.	50.000 NG	1.32
36	65	793	13:13	31	0.922	A BB	21502.	50.000 NG	1.32
37	163	824	13:44	31	0.958	A BB	85861.	50.000 NG	1.32
38	152	837	13:57	31	0.973	A BB	133232.	50.000 NG	1.32
39	138	855	14:15	31	0.994	A BB	14435.	50.000 NG	1.32
40	153	865	14:25	31	1.006	A BB	90198.	50.000 NG	1.32
41	184	870	14:30	31	1.012	A BB	11691.	50.000 NG	1.32
42	109	877	14:37	31	1.020	A BB	12868.	50.000 NG	1.32
43	168	889	14:49	31	1.034	A BB	110160.	50.000 NG	1.32
44	165	893	14:53	31	1.038	A BB	29452.	50.000 NG	1.32
45	165	835	13:55	31	0.971	A BB	22312.	50.000 NG	1.32
46	149	930	15:30	31	1.081	A BB	91282.	50.000 NG	1.32
47	204	940	15:40	31	1.093	A BB	39102.	50.000 NG	1.32
48	166	941	15:41	31	1.094	A BB	97023.	50.000 NG	1.32
49	138	947	15:47	31	1.101	A VB	15941.	50.000 NG	1.32
50	172	759	12:39	31	0.883	A BB	113276.	50.000 NG	1.32

AR301906

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:25	1.00	0.900	1.00	50.00	50.00	1.217	1.217	1.00
3	6:38	1.00	0.930	1.00	50.00	50.00	1.254	1.254	1.00
4	6:46	1.00	0.949	1.00	50.00	50.00	1.241	1.241	1.00
5	7:04	1.00	0.991	1.00	50.00	50.00	1.404	1.404	1.00
6	7:10	1.00	1.005	1.00	50.00	50.00	1.498	1.498	1.00
7	7:26	1.00	1.042	1.00	50.00	50.00	0.601	0.601	1.00
8	7:34	1.00	1.061	1.00	50.00	50.00	1.433	1.433	1.00
9	7:40	1.00	1.075	1.00	50.00	50.00	1.217	1.217	1.00
10	7:46	1.00	1.089	1.00	50.00	50.00	1.113	1.113	1.00
11	7:58	1.00	1.117	1.00	50.00	50.00	1.239	1.239	1.00
12	8:04	1.00	1.131	1.00	50.00	50.00	0.795	0.795	1.00
13	8:15	1.00	1.157	1.00	50.00	50.00	0.721	0.721	1.00
14	6:24	1.00	0.897	1.00	50.00	50.00	1.348	1.348	1.00
15	4:46	1.00	0.668	1.00	50.00	50.00	1.101	1.101	1.00
16	10:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:25	1.00	0.842	1.00	50.00	50.00	0.335	0.335	1.00
18	8:56	1.00	0.893	1.00	50.00	50.00	0.639	0.639	1.00
19	9:09	1.00	0.915	1.00	50.00	50.00	0.226	0.226	1.00
20	9:11	1.00	0.918	1.00	50.00	50.00	0.330	0.330	1.00
21	9:21	1.00	0.935	1.00	50.00	50.00	0.167	0.167	1.00
22	9:26	1.00	0.943	1.00	50.00	50.00	0.459	0.459	1.00
23	9:40	1.00	0.967	1.00	50.00	50.00	0.297	0.297	1.00
24	9:54	1.00	0.990	1.00	50.00	50.00	0.316	0.316	1.00
25	10:03	1.00	1.005	1.00	50.00	50.00	1.053	1.053	1.00
26	10:12	1.00	1.020	1.00	50.00	50.00	0.361	0.361	1.00
27	10:28	1.00	1.047	1.00	50.00	50.00	0.156	0.156	1.00
28	11:20	1.00	1.133	1.00	50.00	50.00	0.281	0.281	1.00
29	11:42	1.00	1.170	1.00	50.00	50.00	0.677	0.677	1.00
30	8:23	1.00	0.838	1.00	50.00	50.00	0.429	0.429	1.00
31	14:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:16	1.00	0.856	1.00	50.00	50.00	0.153	0.153	1.00
33	12:27	1.00	0.869	1.00	50.00	50.00	0.321	0.321	1.00
34	12:32	1.00	0.874	1.00	50.00	50.00	0.322	0.322	1.00
35	12:54	1.00	0.900	1.00	50.00	50.00	1.113	1.113	1.00
36	13:13	1.00	0.922	1.00	50.00	50.00	0.278	0.278	1.00
37	13:44	1.00	0.958	1.00	50.00	50.00	1.108	1.108	1.00
38	13:57	1.00	0.973	1.00	50.00	50.00	1.720	1.720	1.00
39	14:15	1.00	0.994	1.00	50.00	50.00	0.186	0.186	1.00
40	14:25	1.00	1.006	1.00	50.00	50.00	1.164	1.164	1.00
41	14:30	1.00	1.012	1.00	50.00	50.00	0.151	0.151	1.00
42	14:37	1.00	1.020	1.00	50.00	50.00	0.166	0.166	1.00
43	14:49	1.00	1.034	1.00	50.00	50.00	1.422	1.422	1.00
44	14:53	1.00	1.038	1.00	50.00	50.00	0.380	0.380	1.00
45	13:55	1.00	0.971	1.00	50.00	50.00	0.288	0.288	1.00
46	15:30	1.00	1.081	1.00	50.00	50.00	1.178	1.178	1.00
47	15:40	1.00	1.093	1.00	50.00	50.00	0.505	0.505	1.00
48	15:41	1.00	1.094	1.00	50.00	50.00	1.252	1.252	1.00
49	15:47	1.00	1.101	1.00	50.00	50.00	0.206	0.206	1.00
50	12:39	1.00	0.883	1.00	50.00	50.00	1.462	1.462	1.00

Data: S080715.TI

08/07/90 20:31:00

Sample: SSTD50 50NG BNA STD

Conds.: INSTR 5100SP

Formula: S080714

Submitted by: 080790

Instrument: 5100SP

Analyst: EWS

Weight: 0.000

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
51	C555 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	C160 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	C170 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	C530 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	C175 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
51	330	979	16:19	31	1.138	A BB	11031.	50.000 NG	1.32
52	188	1079	17:59	52	1.000	A BB	90595.	40.000 NG	1.06
53	198	954	15:54	52	0.884	A BB	13986.	50.000 NG	1.32
54	169	958	15:58	52	0.888	A BB	52904.	50.000 NG	1.32
55	248	1013	16:53	52	0.939	A BB	20706.	50.000 NG	1.32
56	284	1036	17:16	52	0.960	A BB	30901.	50.000 NG	1.32
57	266	1061	17:41	52	0.983	A BB	16959.	50.000 NG	1.32
58	178	1082	18:02	52	1.003	A BV	118190.	50.000 NG	1.32
59	178	1088	18:08	52	1.008	A VB	138917.	50.000 NG	1.32
60	149	1152	19:12	52	1.068	A BB	184647.	50.000 NG	1.32
61	202	1219	20:19	52	1.130	A BB	129088.	50.000 NG	1.32
62	240	1368	22:48	62	1.000	A BB	177060.	40.000 NG	1.06
63	202	1243	20:43	62	0.909	A BB	157291.	50.000 NG	1.32
64	149	1303	21:43	62	0.952	A BB	111513.	50.000 NG	1.32
65	252	1359	22:39	62	0.993	A BB	39147.	50.000 NG	1.32
66	228	1366	22:46	62	0.999	A BV	212370.	50.000 NG	1.32

AR301908

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
67	149	1360	22:40	62	0.994	A BV	167846.	50.000 NG	1.32
68	228	1371	22:51	62	1.002	A VB	209186.	50.000 NG	1.32
69	244	1255	20:55	62	0.917	A BB	123987.	50.000 NG	1.32
70	264	1599	26:39	70	1.000	A BB	122257.	40.000 NG	1.06
71	149	1439	23:59	70	0.900	A BB	294993.	50.000 NG	1.32
72	252	1525	25:25	70	0.954	A BV	197544.	50.000 NG	1.32
73	252	1529	25:29	70	0.956	A VB	193026.	50.000 NG	1.32
74	252	1588	26:28	70	0.993	A BV	176871.	50.000 NG	1.32
75	276	1868	31:08	70	1.168	A BB	167957.	50.000 NG	1.32
76	278	1871	31:11	70	1.170	A BB	134612.	50.000 NG	1.32
77	276	1951	32:31	70	1.220	A BB	140023.	50.000 NG	1.32

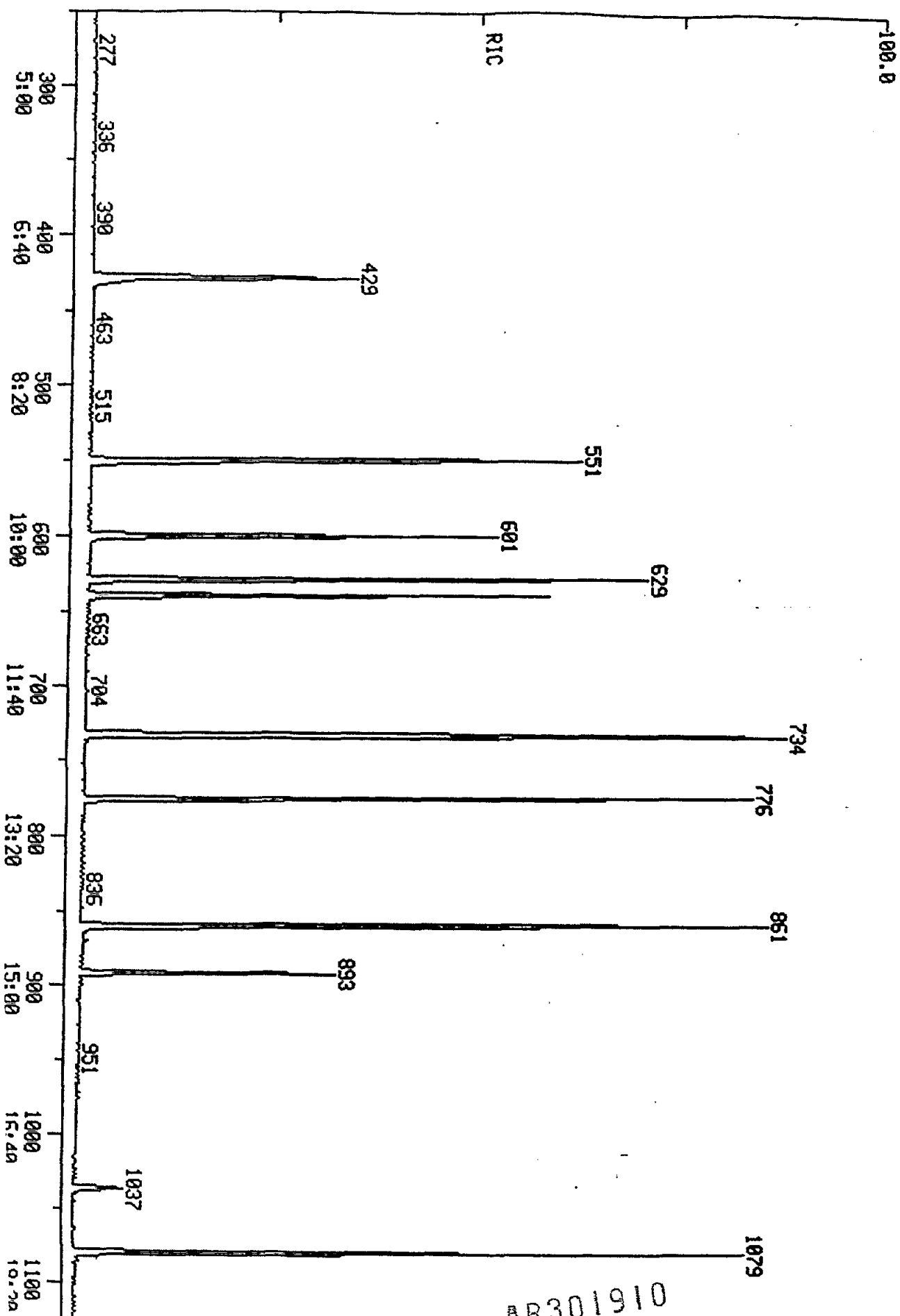
lo	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:19	1.00	1.138	1.00	50.00	50.00	0.142	0.142	1.00
52	17:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	15:54	1.00	0.884	1.00	50.00	50.00	0.124	0.124	1.00
54	15:58	1.00	0.888	1.00	50.00	50.00	0.467	0.467	1.00
55	16:53	1.00	0.939	1.00	50.00	50.00	0.183	0.183	1.00
56	17:16	1.00	0.960	1.00	50.00	50.00	0.273	0.273	1.00
57	17:41	1.00	0.983	1.00	50.00	50.00	0.150	0.150	1.00
58	18:02	1.00	1.003	1.00	50.00	50.00	1.044	1.044	1.00
59	18:08	1.00	1.008	1.00	50.00	50.00	1.227	1.227	1.00
60	19:12	1.00	1.068	1.00	50.00	50.00	1.631	1.631	1.00
61	20:19	1.00	1.130	1.00	50.00	50.00	1.140	1.140	1.00
62	22:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	20:43	1.00	0.909	1.00	50.00	50.00	0.856	0.856	1.00
64	21:43	1.00	0.952	1.00	50.00	50.00	0.607	0.607	1.00
65	22:39	1.00	0.993	1.00	50.00	50.00	0.213	0.213	1.00
66	22:46	1.00	0.999	1.00	50.00	50.00	1.155	1.155	1.00
67	22:40	1.00	0.994	1.00	50.00	50.00	0.913	0.913	1.00
68	22:51	1.00	1.002	1.00	50.00	50.00	1.138	1.138	1.00
69	20:55	1.00	0.917	1.00	50.00	50.00	0.674	0.674	1.00
70	26:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	23:59	1.00	0.900	1.00	50.00	50.00	1.930	1.930	1.00
72	25:25	1.00	0.954	1.00	50.00	50.00	1.293	1.293	1.00
73	25:29	1.00	0.956	1.00	50.00	50.00	1.263	1.263	1.00
74	26:28	1.00	0.993	1.00	50.00	50.00	1.157	1.157	1.00
75	31:08	1.00	1.168	1.00	50.00	50.00	1.099	1.099	1.00
76	31:11	1.00	1.170	1.00	50.00	50.00	0.881	0.881	1.00
77	32:31	1.00	1.220	1.00	50.00	50.00	0.916	0.916	1.00

AR301909

158

RIC
08/07/90 21:22:00
SAMPLE: SSTD50 STANDARD CHLORINE 50MG
COND.: INSTR 5100SP
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080716 #1
CALI: 5080716 #2
SCANS 250 TO 1125
OUT OF 250 TO 2000



AR301910

RIC

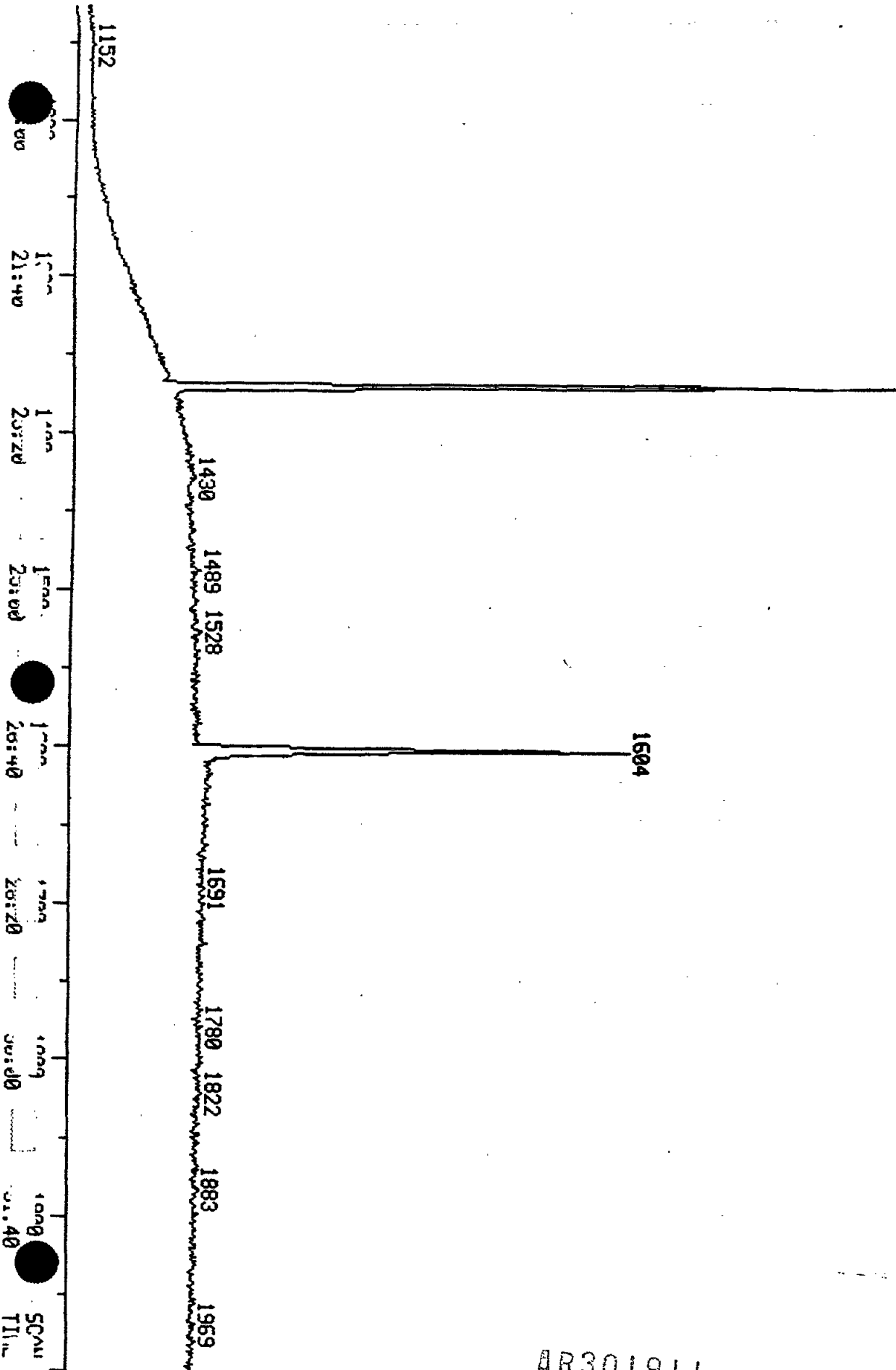
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RIC                                DATA: 5080716 #1          SCANS 1125 TO 2000
08/07/90 21:22:00                CALL: 5080716 #2          OUT OF 250 TO 2000
SAMPLE: STD50 STANDARD CHLORINE 50NG
CONDS.: INSTR 5100SP
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

```

100.0

1026556.



AR301911

Data: S080716.TI

08/07/90 21:22:00

Sample: SSTD50 STANDARD CHLORINE 50NG

Conds.: INSTR 5100SP

Formula: S080714

Submitted by: 080790

Instrument: 5100SP

Analyst: EWS

Weight: 0.000

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	N-NITROSOMETHYLAMINE	
3	ANILINE	
4	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
5	1,3,5-TRICHLOROBENZENE	
6	1,2,3-TRICHLOROBENZENE	
7	M-CHLORONITROBENZENE	
8	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
9	26Z 1,2,4,5-TETRACHLOROBENZENE	
10	1,2,3,4-TETRACHLOROBENZENE	
11	PENTACHLOROBENZENE	
12	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
13	BENZIDINE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	429	7:09	1	1.000	A BB	15819.	50.000 NG	10.87
2	NOT FOUND								
3	NOT FOUND								
4	136	600	10:00	4	1.000	A BB	65185.	40.000 NG	8.70
5	180	551	9:11	4	0.918	A BB	28103.	50.000 NG	10.87
6	180	629	10:29	4	1.048	A BB	28756.	50.000 NG	10.87
7	157	640	10:40	4	1.067	A BB	14241.	40.000 NG	8.70
8	164	861	14:21	8	1.000	A BB	46295.	50.000 NG	10.87
9	216	733	12:13	8	0.851	A BB	35958.	50.000 NG	10.87
10	216	776	12:56	8	0.901	A BB	27633.	50.000 NG	10.87
11	250	893	14:53	8	1.037	A BB	10605.	40.000 NG	8.70
12	188	1079	17:59	12	1.000	A BB	66481.	40.000 NG	8.70
13	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:09	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	2:58		0.415						
3	6:33		0.916						
4	10:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	9:11	1.00	0.918	1.00	50.00	50.00	0.345	0.345	1.00
6	10:29	1.00	1.048	1.00	50.00	50.00	0.353	0.353	1.00
7	10:40	1.00	1.067	1.00	40.00	40.00	0.218	0.218	1.00
8	14:21	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
9	12:13	1.00	0.851	1.00	50.00	50.00	0.777	0.777	1.00
10	12:56	1.00	0.901	1.00	50.00	50.00	0.597	0.597	1.00
11	14:53	1.00	1.037	1.00	40.00	40.00	0.286	0.286	1.00
12	17:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
13	20:31		1.140						

AR301912

78
SEMIVOLATILE CONTINUING CALIBRATION CHECK

161

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100SP

Calibration Date: 08/08/90

Time: 0925

Lab File ID: S080802

Init. Calib. Date(s): 08/07/90

08/07/90

Min RRF50 for SPCC(#) = 0.050

Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol	* 1.444	1.541	-6.7 *
bis(2-Chloroethyl)ether	1.336	1.286	3.7
2-Chlorophenol	1.245	1.076	13.6
1,3-Dichlorobenzene	1.383	1.346	2.7
1,4-Dichlorobenzene	* 1.476	1.434	2.8 *
Benzyl alcohol	0.733	0.572	22.0
1,2-Dichlorobenzene	1.399	1.234	11.8
2-Methylphenol	1.210	0.993	17.9
bis(2-Chloroisopropyl)ether	1.544	1.998	-29.4
4-Methylphenol	1.211	0.916	24.4
N-Nitroso-Di-n-propylamine	# 0.922	0.992	-7.6 #
Hexachloroethane	0.657	0.546	16.9
Nitrobenzene	0.378	0.419	-10.8
Isophorone	0.705	0.751	-6.5
2-Nitrophenol	* 0.222	0.207	6.8 *
2,4-Dimethylphenol	0.357	0.319	10.6
Benzoic acid	0.219	0.160	26.9
bis(2-Chloroethoxy)methane	0.461	0.428	7.2
2,4-Dichlorophenol	* 0.300	0.288	4.0 *
1,2,4-Trichlorobenzene	0.329	0.355	-7.9
Naphthalene	0.990	1.069	-8.0
4-Chloroaniline	0.417	0.376	9.8
Hexachlorobutadiene	* 0.182	0.198	-8.8 *
4-Chloro-3-methylphenol	* 0.294	0.289	1.7 *
2-Methylnaphthalene	0.660	0.676	-2.4
Hexachlorocyclopentadiene	# 0.212	0.282	-33.0 #
2,4,6-Trichlorophenol	* 0.314	0.359	-14.3 *
2,4,5-Trichlorophenol	0.325	0.360	-10.8
2-Chloronaphthalene	1.017	1.007	1.0
2-Nitroaniline	0.317	0.395	-24.6
Dimethylphthalate	1.125	1.072	4.7
Acenaphthylene	1.556	1.534	1.4
2,6-Dinitrotoluene	0.299	0.301	-0.7
3-Nitroaniline	0.263	0.211	19.8
Acenaphthene	* 1.046	0.949	9.3 *
2,4-Dinitrophenol	# 0.184	0.126	31.5 #
4-Nitrophenol	# 0.173	0.085	50.9 #

FORM VII SV-1

5/88 Rev.

AR301913

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

162

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Instrument ID: 5100SP

Calibration Date: 08/08/90

Time: 0925

Lab File ID: S080802

Init. Calib. Date(s): 08/07/90 08/07/90

Min RRF50 for SPCC(%) = 0.050

Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.408	1.308	7.1
2,4-Dinitrotoluene	0.373	0.302	19.0
Diethylphthalate	1.164	0.903	22.4
4-Chlorophenyl-phenylether	0.577	0.552	4.3
Fluorene	1.191	1.055	11.4
4-Nitroaniline	0.239	0.153	36.0
4,6-Dinitro-2-methylphenol	0.132	0.123	6.8
N-Nitrosodiphenylamine (1)	* 0.464	0.427	8.0 *
4-Bromophenyl-phenylether	0.185	0.218	-17.8
Hexachlorobenzene	0.232	0.256	-10.3
Pentachlorophenol	* 0.143	0.150	-4.9 *
Phenanthrene	0.922	0.930	-0.9
Anthracene	1.008	1.045	-3.7
Di-n-Butylphthalate	1.133	1.009	10.9
Fluoranthene	* 0.938	0.954	-1.7 *
Pyrene	0.935	1.406	-50.4
Butylbenzylphthalate	0.603	0.577	4.3
3,3'-Dichlorobenzidine	0.285	0.194	31.9
Benzo(a)anthracene	1.063	1.339	-26.0
Chrysene	0.995	1.201	-20.7
bis(2-Ethylhexyl)phthalate	0.833	0.757	9.1
Di-n-Octyl phthalate	* 1.587	1.452	8.5 *
Benzo(b)fluoranthene	1.273	1.322	-3.8
Benzo(k)fluoranthene	1.121	1.235	-10.2
Benzo(a)pyrene	* 1.117	1.129	-1.1 *
Indeno(1,2,3-cd)pyrene	1.077	0.793	26.4
Dibenzo(a,h)anthracene	0.850	0.585	31.2
Benzo(g,h,i)perylene	0.912	0.668	26.8
Nitrobenzene-d5	0.476	0.503	-5.7
2-Fluorobiphenyl	1.236	1.301	-5.3
p-Terphenyl-d14	0.719	1.018	-41.6
Phenol-d5	1.588	1.764	-11.1
2-Fluorophenol	1.307	1.427	-9.2
2,4,6-Tribromophenol	0.162	0.151	6.8

(1) Cannot be separated from Diphenylamine

FORM VII SV-2

5/88 Rev.

AR301914

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc.Contract: 2267-09-02-0000Case No.: STANDARD CHLORINERFW Lot: 9008L254Instrument ID: 5100SPCalibration Date: 08/08/90 Time: 1016Lab File ID: S080803Init. Calib. Date(s): 08/07/90 08/07/90

Min RRF50 for SPCC(#) = 0.050

Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
1,2,3-Trichlorobenzene	0.363	0.363	0.0
1,3,5-Trichlorobenzene	0.347	0.377	-8.6
1,2,4,5-Tetrachlorobenzene	0.651	0.706	-8.4
1,2,3,4-Tetrachlorobenzene	0.499	0.548	-9.8
Pentachlorobenzene	0.184	0.195	-6.0
1-Chloro-3-nitrobenzene	0.163	0.172	-5.5

FORM VII SV-1

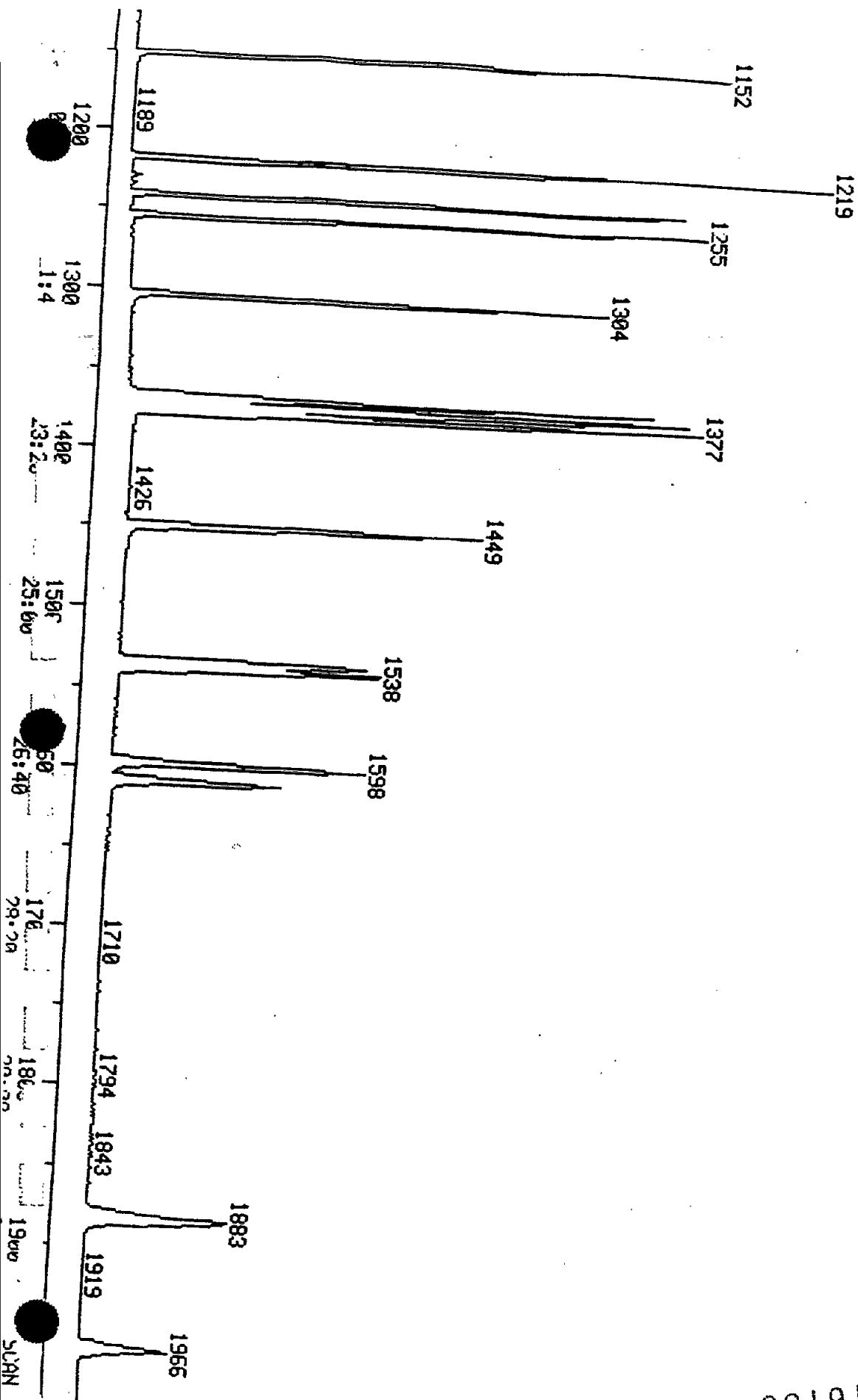
5/88 Rev.

AR301915

100.0

RIC
08/08/90 9:25:00
SAMPLE: 551050 50 NG BNA STD
COND.: INSTR 51005P
RANGE: C 1,2086 LABEL: N 0, 4.0 QUN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080802 #1
CALI: 5080802 #2
SCANS 1125 TO 2000
OUT OF 250 TO 2000



AR301917

377856.

Data: S080802.T1

08/08/90 9:25:00

Sample: SSTD50 50 NG BNA STD

Conds.: INSTR 5100SP

Formula: S080801

Submitted by: 080890

Instrument: 5100SP

Analyst: BKR

Weight: 0.005

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
1	C130 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	C545 PHENOL-D5	SURROGATE STANDARD #2
15	C550 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLORDANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	C520 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301918

Name
 C590 FLUORENE
 C595 4-NITROANILINE
 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	428	7:08	1	1.000	A BB	57045.	40.000 NG	1.06
2	94	385	6:25	1	0.900	A BB	109905.	50.000 NG	1.32
3	93	398	6:38	1	0.930	A VB	91675.	50.000 NG	1.32
4	128	406	6:46	1	0.949	A BB	76717.	50.000 NG	1.32
5	146	424	7:04	1	0.991	A BV	95949.	50.000 NG	1.32
6	146	430	7:10	1	1.005	A VB	102249.	50.000 NG	1.32
7	108	446	7:26	1	1.042	A BV	40767.	50.000 NG	1.32
8	146	454	7:34	1	1.061	A BB	87965.	50.000 NG	1.32
9	108	460	7:40	1	1.075	A VB	70793.	50.000 NG	1.32
10	45	467	7:47	1	1.091	A BB	142462.	50.000 NG	1.32
11	108	479	7:59	1	1.119	A BB	65283.	50.000 NG	1.32
12	70	485	8:05	1	1.133	A BB	70753.	50.000 NG	1.32
13	117	495	8:15	1	1.157	A BB	38946.	50.000 NG	1.32
14	99	384	6:24	1	0.897	A BB	125819.	50.000 NG	1.32
15	112	286	4:46	1	0.668	A BB	101748.	50.000 NG	1.32
16	136	600	10:00	16	1.000	A BB	185118.	40.000 NG	1.06
17	77	505	8:25	16	0.842	A BB	96922.	50.000 NG	1.32
18	82	536	8:56	16	0.893	A BB	173879.	50.000 NG	1.32
19	139	549	9:09	16	0.915	A BB	47918.	50.000 NG	1.32
20	107	552	9:12	16	0.920	A BB	73709.	50.000 NG	1.32
21	122	562	9:22	16	0.937	A VB	36997.	50.000 NG	1.32
22	93	566	9:26	16	0.943	A BB	99013.	50.000 NG	1.32
23	162	580	9:40	16	0.967	A BB	66749.	50.000 NG	1.32
24	180	594	9:54	16	0.990	A BB	82092.	50.000 NG	1.32
25	128	603	10:03	16	1.005	A BB	247298.	50.000 NG	1.32
26	127	612	10:12	16	1.020	A BB	86936.	50.000 NG	1.32
27	225	628	10:28	16	1.047	A BB	45855.	50.000 NG	1.32
28	107	680	11:20	16	1.133	A BB	66879.	50.000 NG	1.32
29	142	702	11:42	16	1.170	A BB	156440.	50.000 NG	1.32
30	82	503	8:23	16	0.838	A BB	116283.	50.000 NG	1.32
31	164	860	14:20	31	1.000	A BB	113683.	40.000 NG	1.06
32	237	736	12:16	31	0.856	A BB	40026.	50.000 NG	1.32
33	196	747	12:27	31	0.869	A BV	51002.	50.000 NG	1.32
34	196	752	12:32	31	0.874	A VB	51136.	50.000 NG	1.32
35	162	774	12:54	31	0.900	A BB	143162.	50.000 NG	1.32
36	65	793	13:13	31	0.922	A BB	56070.	50.000 NG	1.32
37	163	824	13:44	31	0.958	A BB	152321.	50.000 NG	1.32
38	152	837	13:57	31	0.973	A BB	218045.	50.000 NG	1.32
39	138	855	14:15	31	0.994	A BB	30037.	50.000 NG	1.32
40	153	865	14:25	31	1.006	A BB	134854.	50.000 NG	1.32
41	184	870	14:30	31	1.012	A BB	17942.	50.000 NG	1.32
42	109	877	14:37	31	1.020	A BB	12060.	50.000 NG	1.32
43	168	889	14:49	31	1.034	A BB	185806.	50.000 NG	1.32
44	165	893	14:53	31	1.038	A BB	42899.	50.000 NG	1.32
45	165	835	13:55	31	0.971	A BB	42752.	50.000 NG	1.32
46	149	930	15:30	31	1.081	A BB	128328.	50.000 NG	1.32
47	204	940	15:40	31	1.093	A BB	78402.	50.000 NG	1.32
48	166	941	15:41	31	1.094	A BB	149979.	50.000 NG	1.32
49	138	947	15:47	31	1.101	A BB	21672.	50.000 NG	1.32
50	172	759	12:39	31	0.883	A BB	184895.	50.000 NG	1.32

AR301919

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:25	1.00	0.900	1.00	50.00	50.00	1.541	1.541	1.00
3	6:38	1.00	0.930	1.00	50.00	50.00	1.286	1.286	1.00
4	6:46	1.00	0.949	1.00	50.00	50.00	1.076	1.076	1.00
5	7:04	1.00	0.991	1.00	50.00	50.00	1.346	1.346	1.00
6	7:10	1.00	1.005	1.00	50.00	50.00	1.434	1.434	1.00
7	7:26	1.00	1.042	1.00	50.00	50.00	0.572	0.572	1.00
8	7:34	1.00	1.061	1.00	50.00	50.00	1.234	1.234	1.00
9	7:40	1.00	1.075	1.00	50.00	50.00	0.993	0.993	1.00
10	7:47	1.00	1.091	1.00	50.00	50.00	1.998	1.998	1.00
11	7:59	1.00	1.119	1.00	50.00	50.00	0.916	0.916	1.00
12	8:05	1.00	1.133	1.00	50.00	50.00	0.992	0.992	1.00
13	8:15	1.00	1.157	1.00	50.00	50.00	0.546	0.546	1.00
14	6:24	1.00	0.897	1.00	50.00	50.00	1.764	1.764	1.00
15	4:46	1.00	0.668	1.00	50.00	50.00	1.427	1.427	1.00
16	10:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	8:25	1.00	0.842	1.00	50.00	50.00	0.419	0.419	1.00
18	8:56	1.00	0.893	1.00	50.00	50.00	0.751	0.751	1.00
19	9:09	1.00	0.915	1.00	50.00	50.00	0.207	0.207	1.00
20	9:12	1.00	0.920	1.00	50.00	50.00	0.319	0.319	1.00
21	9:22	1.00	0.937	1.00	50.00	50.00	0.160	0.160	1.00
22	9:26	1.00	0.943	1.00	50.00	50.00	0.428	0.428	1.00
23	9:40	1.00	0.967	1.00	50.00	50.00	0.288	0.288	1.00
24	9:54	1.00	0.990	1.00	50.00	50.00	0.355	0.355	1.00
25	10:03	1.00	1.005	1.00	50.00	50.00	1.069	1.069	1.00
26	10:12	1.00	1.020	1.00	50.00	50.00	0.376	0.376	1.00
27	10:28	1.00	1.047	1.00	50.00	50.00	0.198	0.198	1.00
28	11:20	1.00	1.133	1.00	50.00	50.00	0.289	0.289	1.00
29	11:42	1.00	1.170	1.00	50.00	50.00	0.676	0.676	1.00
30	8:23	1.00	0.838	1.00	50.00	50.00	0.503	0.503	1.00
31	14:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	12:16	1.00	0.856	1.00	50.00	50.00	0.282	0.282	1.00
33	12:27	1.00	0.869	1.00	50.00	50.00	0.359	0.359	1.00
34	12:32	1.00	0.874	1.00	50.00	50.00	0.360	0.360	1.00
35	12:54	1.00	0.900	1.00	50.00	50.00	1.007	1.007	1.00
36	13:13	1.00	0.922	1.00	50.00	50.00	0.395	0.395	1.00
37	13:44	1.00	0.958	1.00	50.00	50.00	1.072	1.072	1.00
38	13:57	1.00	0.973	1.00	50.00	50.00	1.534	1.534	1.00
39	14:15	1.00	0.994	1.00	50.00	50.00	0.211	0.211	1.00
40	14:25	1.00	1.006	1.00	50.00	50.00	0.949	0.949	1.00
41	14:30	1.00	1.012	1.00	50.00	50.00	0.126	0.126	1.00
42	14:37	1.00	1.020	1.00	50.00	50.00	0.085	0.085	1.00
43	14:49	1.00	1.034	1.00	50.00	50.00	1.308	1.308	1.00
44	14:53	1.00	1.038	1.00	50.00	50.00	0.302	0.302	1.00
45	13:55	1.00	0.971	1.00	50.00	50.00	0.301	0.301	1.00
46	15:30	1.00	1.081	1.00	50.00	50.00	0.903	0.903	1.00
47	15:40	1.00	1.093	1.00	50.00	50.00	0.552	0.552	1.00
48	15:41	1.00	1.094	1.00	50.00	50.00	1.055	1.055	1.00
49	15:47	1.00	1.101	1.00	50.00	50.00	0.153	0.153	1.00
50	12:39	1.00	0.883	1.00	50.00	50.00	1.301	1.301	1.00

Data: S080802.TI

08/90 9:25:00

Sample: SSTD50 50 NG BNA STD

Conds.: INSTR 5100SP

Formula: S080801

Instrument: 5100SP

Weight: 0.005

Submitted by: 080890

Analyst: BKR

Acct. No.: RFW

AJUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

Name	
51 CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52 CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
3 C610 4,6-DINITRO-2-METHYLPHENOL	
54 C615 N-NITROSODIPHENYLAMINE	
55 C625 4-BROMOPHENYL-PHENYLETHER	
5 C630 HEXACHLOROBENZENE	
7 C635 PENTACHLOROPHENOL	
58 C640 PHENANTHRENE	
57 C645 ANTHRACENE	
5 C650 DI-N-BUTYLPHTHALATE	
61 C655 FLUORANTHENE	
42 CI70 CHRYSENE-D12	INTERNAL STANDARD #5
3 C715 PYRENE	
54 C720 BUTYLBENZYLPHTHALATE	
65 C725 3,3'-DICHLOROBENZIDINE	
5 C730 BENZO(A)ANTHRACENE	
C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68 C740 CHRYSENE	
7 CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
5 CI75 PERYLENE-D12	INTERNAL STANDARD #6
71 C760 DI-N-OCTYLPHTHALATE	
72 C765 BENZO(B)FLUORANTHENE	
3 C770 BENZO(K)FLUORANTHENE	
74 C775 BENZO(A)PYRENE	
75 C780 INDENO(1,2,3-CD)PYRENE	
5 C785 DIBENZ(A,H)ANTHRACENE	
7 C790 BENZO(G,H,I)PERYLENE	

	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
1	330	979	16:19	31	1.138	A BB	21403.	50.000 NG	1.32
52	188	1079	17:59	52	1.000	A BB	167596.	40.000 NG	1.06
53	198	954	15:54	52	0.884	A BB	25736.	50.000 NG	1.32
4	169	958	15:58	52	0.888	A BB	89512.	50.000 NG	1.32
55	248	1013	16:53	52	0.939	A BB	45621.	50.000 NG	1.32
56	284	1036	17:16	52	0.960	A BB	53718.	50.000 NG	1.32
7	266	1061	17:41	52	0.983	A BB	31415.	50.000 NG	1.32
58	178	1082	18:02	52	1.003	A BV	194894.	50.000 NG	1.32
59	178	1088	18:08	52	1.008	A VB	218847.	50.000 NG	1.32
60	149	1152	19:12	52	1.068	A BB	211311.	50.000 NG	1.32
1	202	1219	20:19	52	1.130	A BV	199913.	50.000 NG	1.32
62	240	1374	22:54	62	1.000	A BB	118580.	40.000 NG	1.06
62	202	1242	20:42	62	0.904	A BV	208335.	50.000 NG	1.32
64	149	1304	21:44	62	0.949	A BB	85583.	50.000 NG	1.32
65	252	1366	22:46	62	0.994	A BB	28694.	50.000 NG	1.32
66	228	1372	22:52	62	0.999	A BV	198500.	50.000 NG	1.32

AR301921

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	149	1368	22:48	62	0.996	A BV	112190.	50.000 NG	1.32
68	228	1377	22:57	62	1.002	A VB	178084.	50.000 NG	1.32
69	244	1253	20:55	62	0.913	A BB	150909.	50.000 NG	1.32
70	264	1609	26:49	70	1.000	A BB	85958.	40.000 NG	1.06
71	149	1449	24:09	70	0.901	A BB	156017.	50.000 NG	1.32
72	252	1534	25:34	70	0.953	A BV	142000.	50.000 NG	1.32
73	252	1538	25:38	70	0.956	A VB	132700.	50.000 NG	1.32
74	252	1598	26:38	70	0.993	A BV	121311.	50.000 NG	1.32
75	276	1882	31:22	70	1.170	A BB	85169.	50.000 NG	1.32
76	278	1885	31:25	70	1.172	A BB	62840.	50.000 NG	1.32
77	276	1966	32:46	70	1.222	A BB	71757.	50.000 NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
51	16:19	1.00	1.138	1.00	50.00	50.00	0.151	0.151	1.00
52	17:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
53	15:54	1.00	0.884	1.00	50.00	50.00	0.123	0.123	1.00
54	15:58	1.00	0.888	1.00	50.00	50.00	0.427	0.427	1.00
55	16:53	1.00	0.939	1.00	50.00	50.00	0.218	0.218	1.00
56	17:16	1.00	0.960	1.00	50.00	50.00	0.256	0.256	1.00
57	17:41	1.00	0.983	1.00	50.00	50.00	0.150	0.150	1.00
58	18:02	1.00	1.003	1.00	50.00	50.00	0.930	0.930	1.00
59	18:08	1.00	1.008	1.00	50.00	50.00	1.045	1.045	1.00
60	19:12	1.00	1.068	1.00	50.00	50.00	1.009	1.009	1.00
61	20:19	1.00	1.130	1.00	50.00	50.00	0.954	0.954	1.00
62	22:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
63	20:42	1.00	0.904	1.00	50.00	50.00	1.406	1.406	1.00
64	21:44	1.00	0.949	1.00	50.00	50.00	0.577	0.577	1.00
65	22:46	1.00	0.994	1.00	50.00	50.00	0.194	0.194	1.00
66	22:52	1.00	0.999	1.00	50.00	50.00	1.339	1.339	1.00
67	22:48	1.00	0.996	1.00	50.00	50.00	0.757	0.757	1.00
68	22:57	1.00	1.002	1.00	50.00	50.00	1.201	1.201	1.00
69	20:55	1.00	0.913	1.00	50.00	50.00	1.018	1.018	1.00
70	26:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	24:09	1.00	0.901	1.00	50.00	50.00	1.452	1.452	1.00
72	25:34	1.00	0.953	1.00	50.00	50.00	1.322	1.322	1.00
73	25:38	1.00	0.956	1.00	50.00	50.00	1.235	1.235	1.00
74	26:38	1.00	0.993	1.00	50.00	50.00	1.129	1.129	1.00
75	31:22	1.00	1.170	1.00	50.00	50.00	0.793	0.793	1.00
76	31:25	1.00	1.172	1.00	50.00	50.00	0.585	0.585	1.00
77	32:46	1.00	1.222	1.00	50.00	50.00	0.668	0.668	1.00

AR301922

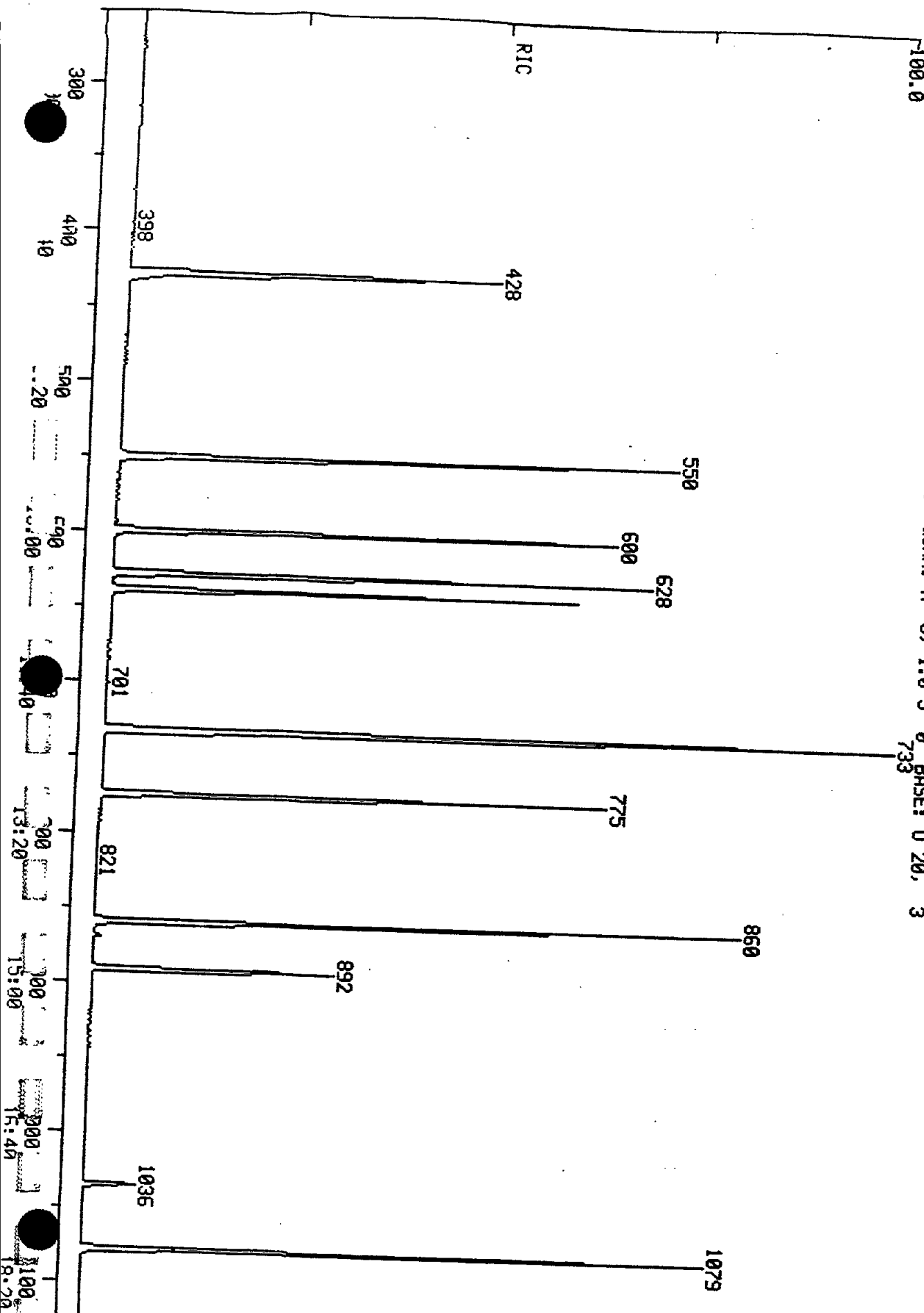
171

RIC
08/08/90 10:16:00
SAMPLE: SSTD50 50 NG STD CHLORINE
COND.: INSTR 5100SP
RANGE: C 1,2100 LABEL: N 0, 4.0

DATA: 5080803 #1
CALL: 5080803 #2

SCANS 250 TO 1125
OUT OF 250 TO 2000

QUAN: A 0, 1.0 J 0
BASE: U 20, 3



AR301923

172

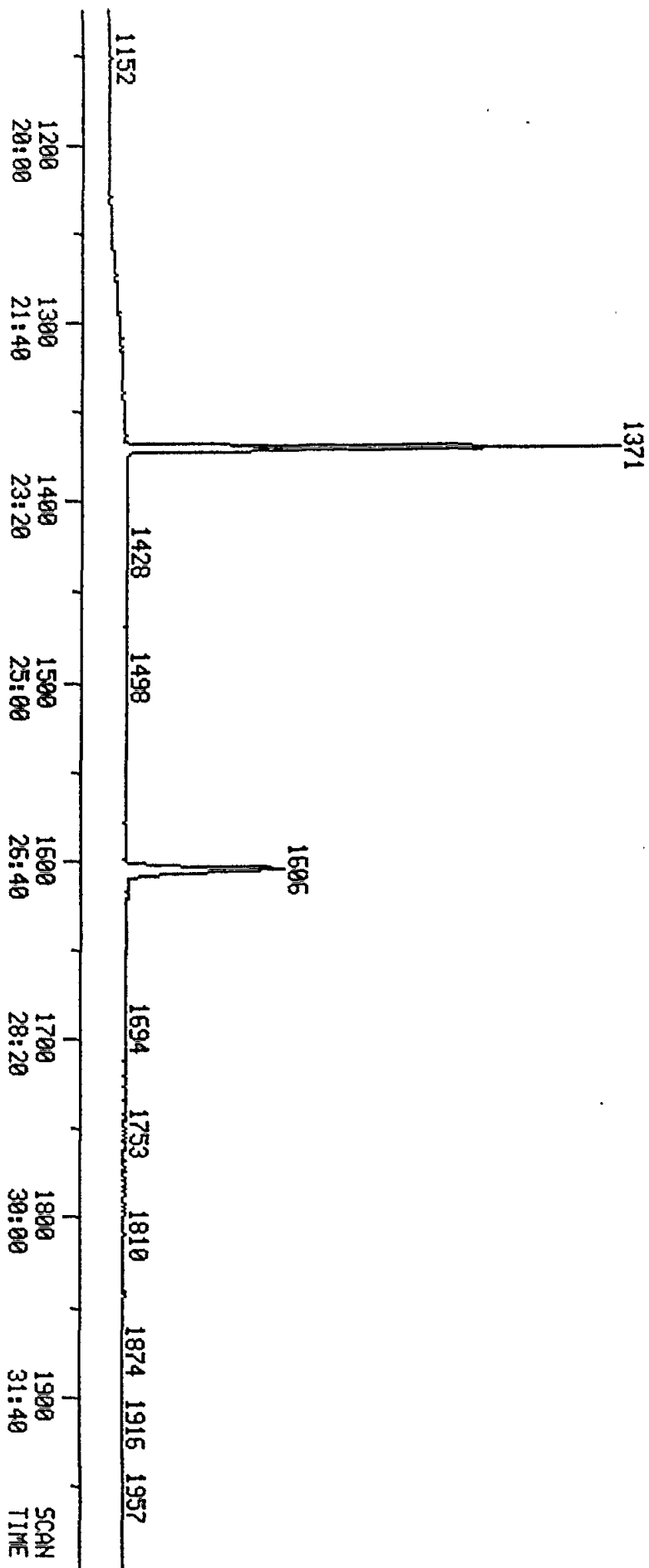
RIC
08/08/90 10:16:00
SAMPLE: SST050 50 NG STD CHLORINE
COND5.: INSTR 5100SP
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080803 #1
CALL: 5080803 #2

SCANS 1125 TO 2000
OUT OF 250 TO 2000

100.0

323072.



AR301924

I ca: S080803.TI

08/90 10:16:00

Sample: SST50 50 NG STD CHLORINE

C ids.: INSTR 5100SP

Formula: S080801

Submitted by: 080890

Instrument: 5100SP

Analyst: BKR

Weight: 0.005

Acct. No.: RFW

A JUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

Name	
1 CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2 N-NITROSDMETHYLAMINE	
3 ANILINE	
4 CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
5 1,3,5-TRICHLOROBENZENE	
6 1,2,3-TRICHLOROBENZENE	
7 M-CHLORONITROBENZENE	
8 CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
9 26Z 1,2,4,5-TETRACHLOROBENZENE	
10 1,2,3,4-TETRACHLOROBENZENE	
11 PENTACHLOROBENZENE	
12 CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
13 BENZIDINE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	428	7:08	1	1.000	A BB	63481.	40.000 NG	8.70
2	NOT FOUND								
3	NOT FOUND								
4	136	600	10:00	4	1.000	A BB	208734.	40.000 NG	8.70
5	180	550	9:10	4	0.917	A BB	98491.	50.000 NG	10.87
6	180	628	10:28	4	1.047	A BB	94609.	50.000 NG	10.87
7	157	639	10:39	4	1.065	A BB	44899.	50.000 NG	10.87
8	164	860	14:20	8	1.000	A BB	142664.	40.000 NG	8.70
9	216	733	12:13	8	0.852	A BB	125885.	50.000 NG	10.87
10	216	775	12:55	8	0.901	A BB	97644.	50.000 NG	10.87
11	250	892	14:52	8	1.037	A BB	34750.	50.000 NG	10.87
12	188	1079	17:59	12	1.000	A BB	181727.	40.000 NG	8.70
13	NOT FOUND								

	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	2:58		0.415						
3	6:33		0.916						
4	10:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	9:10	1.00	0.917	1.00	50.00	50.00	0.377	0.377	1.00
6	10:28	1.00	1.047	1.00	50.00	50.00	0.363	0.363	1.00
7	10:39	1.00	1.065	1.00	50.00	50.00	0.172	0.172	1.00
8	14:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
9	12:13	1.00	0.852	1.00	50.00	50.00	0.706	0.706	1.00
10	12:55	1.00	0.901	1.00	50.00	50.00	0.548	0.548	1.00
11	14:52	1.00	1.037	1.00	50.00	50.00	0.195	0.195	1.00
12	17:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
13	20:31		1.140						

AR301925

88
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

174

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Lab File ID (Standard): M080602

Date Analyzed: 08/06/90

Instrument ID: 5100M

Time Analyzed: 1401

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	37714	7.38	156378	10.32	83721	14.77
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	75428	7.88	312756	10.82	167442	15.27
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	18857	6.88	78189	9.82	41861	14.27
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 SBLKLE0803-MBI	30429	7.37	117771	10.32	57814	14.77
02 SBLKLE0803-MBI BS	30749	7.37	121372	10.32	60091	14.78
03 SBLKLE0803-MBI BSD	30803	7.38	120039	10.33	59324	14.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

AR301926

8C
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

175

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Lab File ID (Standard): M080602

Date Analyzed: 08/06/90

Instrument ID: 5100M

Time Analyzed: 1401

	IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
12 HOUR STD	130494	18.43	72000	23.70	63337	28.23
UPPER LIMIT	260988	18.93	144000	24.20	126674	28.73
LOWER LIMIT	65247	17.93	36000	23.20	31669	27.73
CLIENT SAMPLE NO.						
01 SBLKLE0803-MB1	80546	18.45	43829	23.72	36717	28.28
02 SBLKLE0803-MB1 BS	84020	18.45	45024	23.72	38452	28.28
03 SBLKLE0803-MB1 BSD	82016	18.47	43596	23.75	35996	28.33

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

AR301927

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

176

Lab Name: Roy F. Weston, Inc.Contract: 2267-09-02-0000Case No.: STANDARD CHLORINERFW Lot: 9008L253Lab File ID (Standard): S080715Date Analyzed: 08/07/90Instrument ID: 5100SPTime Analyzed: 2031

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA	#	AREA	#	AREA	#
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	32898	7.13	124891	10.00	61980	14.33
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	65796	7.63	249782	10.50	123960	14.83
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	16449	6.63	62446	9.50	30990	13.83
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE						
NO.						
=====	=====	=====	=====	=====	=====	=====
01 GW4-0-1 OR6A	27473	7.13	106268	10.00	66228	14.35
02 GW4-0-1 OR6AMS	25948	7.13	96412	10.00	59971	14.35
03 GW4-0-1 OR6AMSD	24899	7.13	92495	10.02	57921	14.37

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%
of internal standard area.

LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

AR301928

8C
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

177

Lab Name: Roy F. Weston, Inc.

Contract: 2267-09-02-0000

Case No.: STANDARD CHLORINE

RFW Lot: 9008L253

Lab File ID (Standard): S080715

Date Analyzed: 08/07/90

Instrument ID: 5100SP

Time Analyzed: 2031

	IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	90595	17.98	147060	22.80	122257	26.65
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	181190	18.48	294120	23.30	244514	27.15
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	45298	17.48	73530	22.30	61129	26.15
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 GW4-0-1 OR6A	96936	17.98	65223*	23.05	54704*	27.00
02 GW4-0-1 OR6AMS	80484	18.00	50266*	23.02	49118*	26.97
03 GW4-0-1 OR6AMSD	86016	18.00	47336*	23.30	47088*	27.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

AR301929

178

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc.Contract: 2267-09-02-0000Case No.: STANDARD CHLORINERFW Lot: 9008L253Lab File ID (Standard): S080802Date Analyzed: 08/08/90Instrument ID: 5100SPTime Analyzed: 0925

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	57045	7.13	185118	10.00	113683	14.33
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	114090	7.63	370236	10.50	227366	14.83
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	28523	6.63	92559	9.50	56842	13.83
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 GW4-0-3 OR6A (FB)	67633	7.15	238281	10.02	153868	14.37

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area

Column used to flag internal standard area values with an asterisk

AR301930

8C
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

179

Lab Name: Roy F. Weston, Inc. Contract: 2267-09-02-0000
 Case No.: STANDARD CHLORINE RFW Lot: 9008L253
 Lab File ID (Standard): S080802 Date Analyzed: 08/08/90
 Instrument ID: 5100SP Time Analyzed: 0925

	IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	167596	17.98	118580	22.90	85958	26.82
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	335192	18.48	237160	23.40	171916	27.32
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	83798	17.48	59290	22.40	42979	26.32
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 GW4-0-3 OR6A (FB)	201369	18.02	117459	23.00	87432	27.00

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

AR301931

V. Raw QC Data Package

A. GC/MS Tuning and Calibration Standard: DFTPP

1. Bar Graph
2. Mass Listing

B. Blank Data

1. Tabulated Results (Form I)
2. TIC Results (Form IB)
3. Raw Data
 - a. Reconstructed Ion Chromatogram(s)
and Quantitation Report(s)
 - b. HSL Spectra
 - c. TIC Spectra
 - d. GC/MS Library Search for TIC

C. Matrix Spike Data

1. Tabulated Results (Form I)
2. Raw Data
 - a. Reconstructed Ion Chromatogram(s)
 - b. Quantitation Report(s)

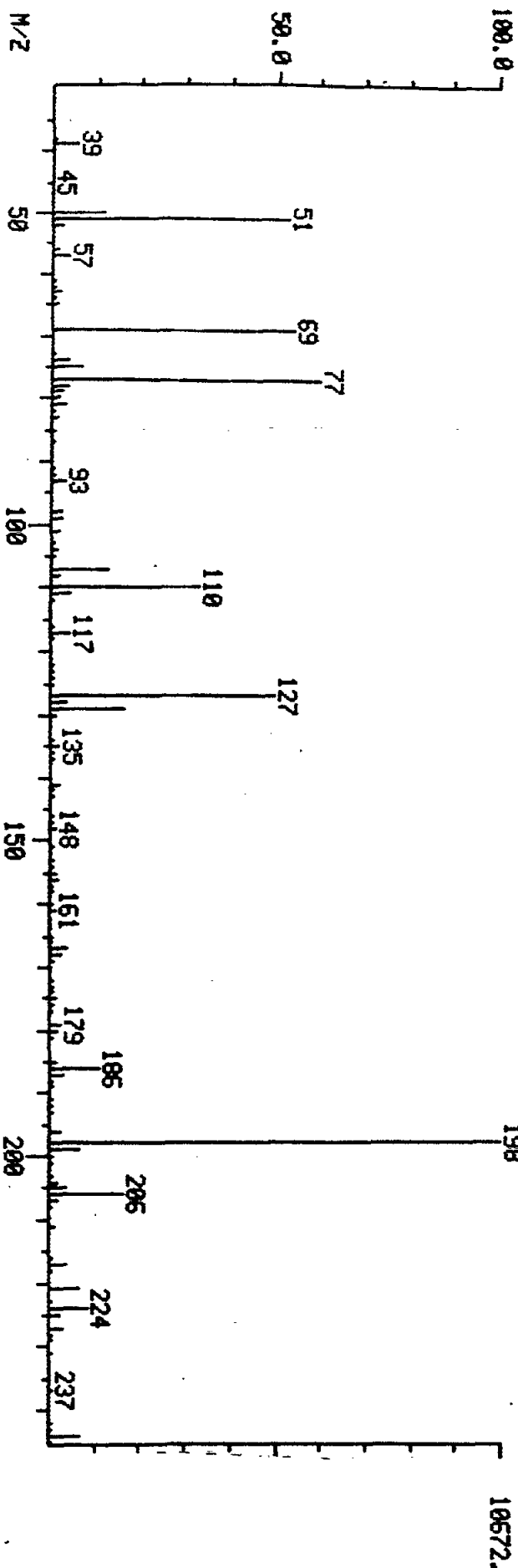
AR301932

181

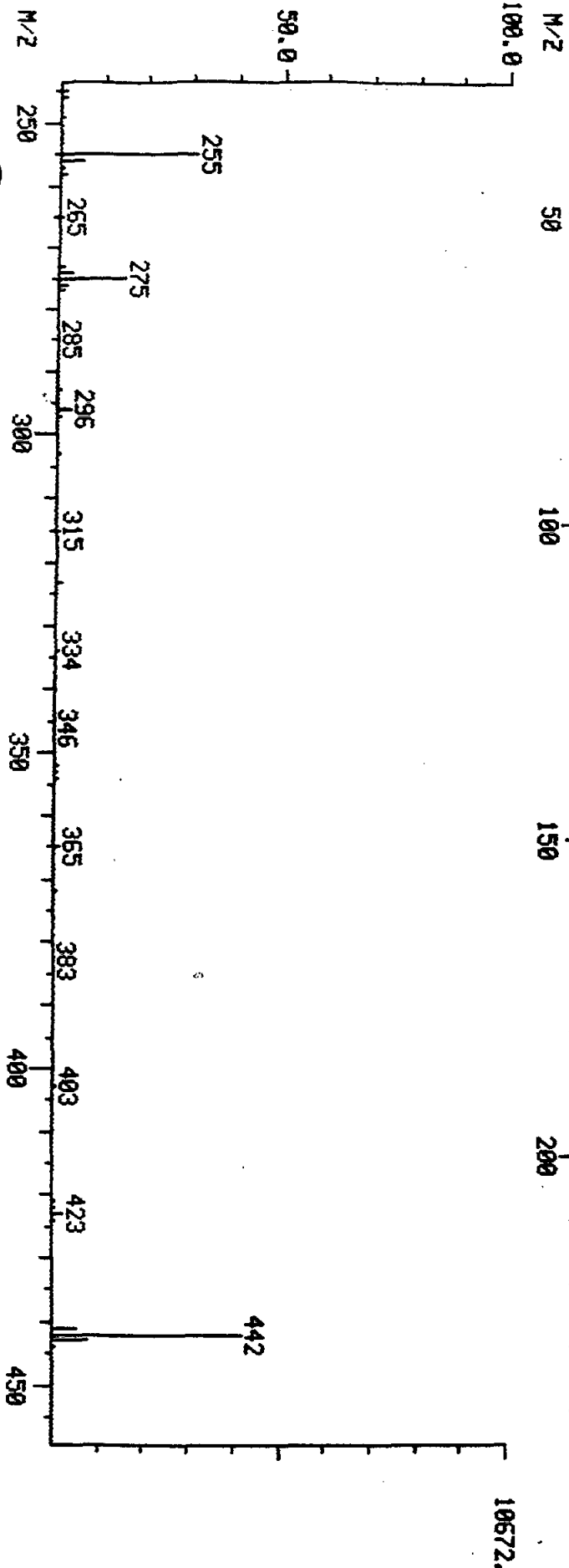
MASS SPECTRUM
08/03/90 8:18:00 + 6:30
SAMPLE: DFTPP50 50NG TUNE
COND5.: INST 5100M
GC TEMP: 261 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: M080301 #390
CALI: M080301 #2

BASE M/Z: 198
RIC: 77440.



AR301933



Mass List
08/03/90 8:18:00 + 6:30
Sample: DFTPP50 SONG TUNE
Conds.: INST 5100M
Enhanced (S 15B 2N 0T)

Data: M080301 # 390
Cali: M080301 # 2

Base m/z: 198
RIC: 77440.

182

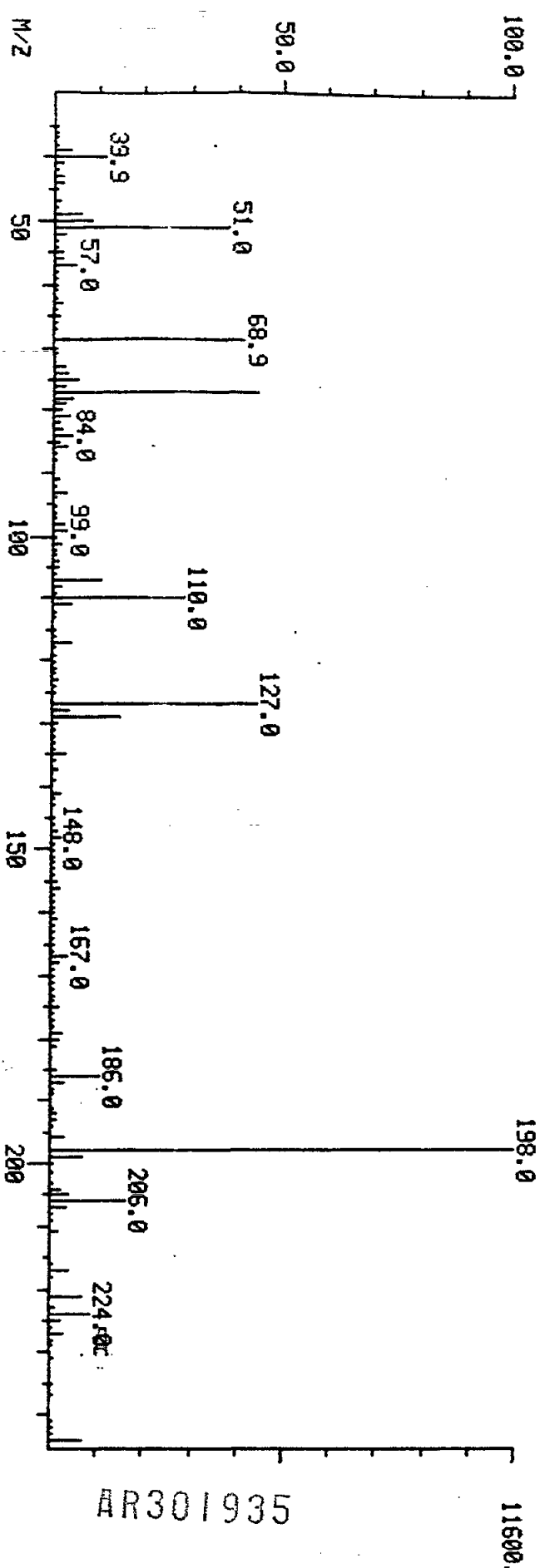
37 445 Mass	0.00 % RA	0.00 % RIC	0. # Inten.	Minima Maxima Mass	Min inten: 68.	Inten.	
39.00?	5.32	0.73	568.	168.00	2.30	0.32	245.
50.00?	11.64	1.60	1242.	174.00	0.83	0.11	89.
51.00?	52.47	7.23	5600.	175.00	1.39	0.19	148.
52.00?	2.55	0.35	272.	179.00	2.17	0.30	232.
56.00?	1.36	0.19	145.	180.00	1.85	0.25	197.
57.00?	3.72	0.51	397.	181.00	0.83	0.11	89.
62.00?	0.65	0.09	69.	185.00	1.20	0.17	128.
63.00?	1.84	0.25	196.	186.00	10.74	1.48	1146.
65.00?	1.09	0.15	116.	187.00	3.10	0.43	331.
69.00	53.82	7.42	5744.	192.00	0.73	0.10	78.
73.00	0.67	0.09	71.	193.00	0.76	0.10	81.
74.00	3.73	0.51	398.	196.00	2.65	0.37	283.
75.00	6.81	0.94	727.	198.00	100.00	13.78	10672.
77.00	59.90	8.25	6392.	199.00	6.70	0.92	715.
78.00	3.89	0.54	415.	201.00	0.75	0.10	80.
79.00	2.46	0.34	263.	204.00	2.03	0.28	217.
80.00	2.08	0.29	222.	205.00	3.59	0.49	383.
81.00	3.11	0.43	332.	206.00	16.32	2.25	1742.
82.00	0.74	0.10	79.	207.00	1.93	0.27	206.
83.00	1.24	0.17	132.	211.00	1.41	0.19	150.
85.00	0.69	0.10	74.	217.00	3.83	0.53	409.
91.00	0.68	0.09	73.	221.00	6.55	0.90	699.
93.00	3.03	0.42	323.	223.00	0.89	0.12	95.
98.00	2.60	0.36	278.	224.00	8.62	1.19	920.
99.00	2.63	0.36	281.	225.00	2.28	0.31	243.
101.00	1.69	0.23	180.	227.00	2.80	0.39	299.
104.00	1.01	0.14	108.	229.00	0.68	0.09	73.
105.00	0.85	0.12	91.	244.00	6.60	0.91	704.
107.00	12.74	1.76	1360.	245.00	0.96	0.13	102.
108.00	2.06	0.28	220.	246.00	0.98	0.14	105.
110.00	33.17	4.57	3540.	255.00	30.58	4.21	3264.
111.00	4.13	0.57	441.	256.00	4.58	0.63	489.
117.00	4.45	0.61	475.	258.00	1.41	0.19	150.
122.00	0.72	0.10	77.	265.00	0.64	0.09	68.
123.00	0.82	0.11	87.	273.00	1.12	0.15	120.
127.00	49.78	6.86	5312.	274.00	3.00	0.41	320.
128.00	3.75	0.52	400.	275.00	15.24	2.10	1626.
129.00	16.38	2.26	1748.	276.00	2.00	0.28	213.
130.00	1.38	0.19	147.	277.00	0.99	0.14	106.
135.00	1.56	0.22	167.	296.00	3.01	0.41	321.
137.00	0.67	0.09	72.	323.00	1.31	0.18	140.
141.00	1.72	0.24	184.	334.00	0.76	0.10	81.
142.00	0.75	0.10	80.	365.00	1.12	0.15	119.
147.00	0.82	0.11	88.	372.00	0.82	0.11	88.
148.00	1.44	0.20	154.	423.00	2.27	0.31	242.
153.00	0.67	0.09	72.	441.00	5.48	0.76	585.
155.00	0.97	0.13	104.	442.00	41.98	5.79	4480.
156.00	1.65	0.23	176.	443.00	7.83	1.08	836.
161.00	1.07	0.15	114.	444.00	0.67	0.09	71.
167.00	3.44	0.47	367.				

AR301934

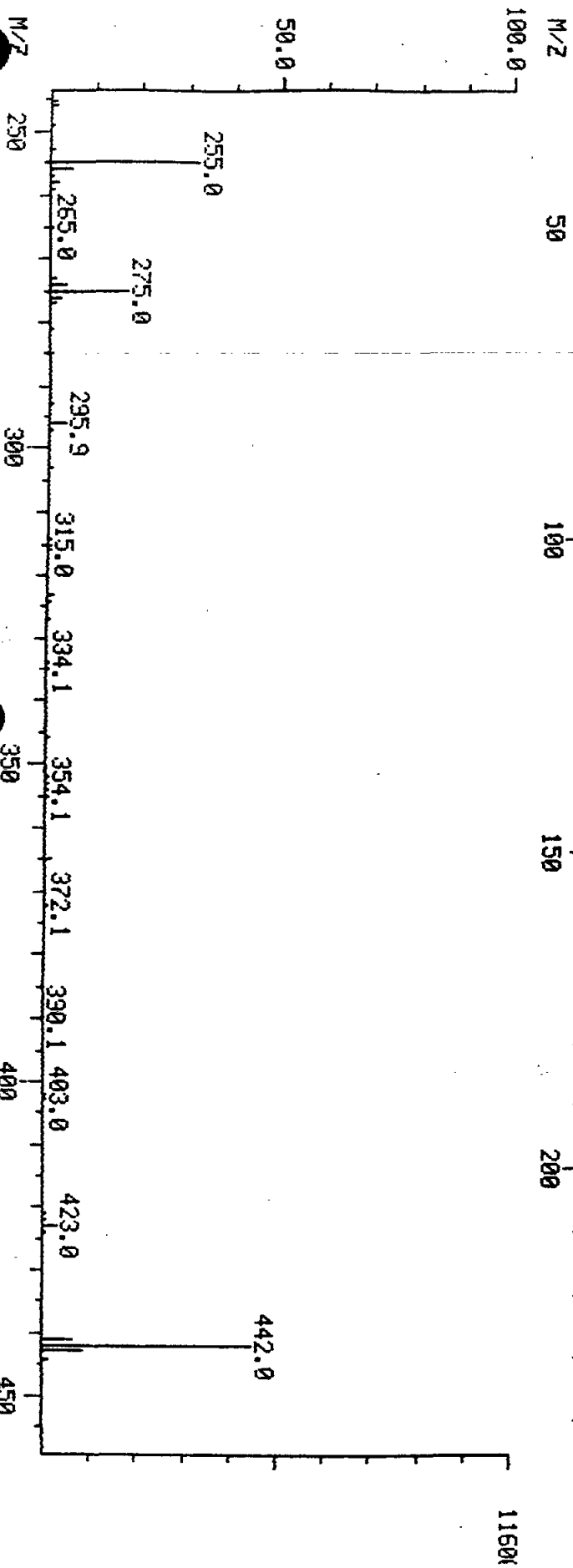
MASS SPECTRUM
08/06/90 13:43:00 + 6:36
SAMPLE: DFTPP50 50NG TUNE
CONDS.: INST 5100M
GC TEMP: 260 DEG. C

DATA: M080601 #396
CALL: M080601 #2

BASE M/Z: 198
RIC: 85760.



AR301935



Mass List
08/06/90 13:43:00 + 6:36
Sample: DFTPP50 SONG TUNE
Conds.: INST 5100M

Data: M080601 # 396
Cali: M080601 # 2

Base m/z: 198
RIC: 85760.

35 445 Mass	0.00 % RA	0.00 % RIC	0. # Inten.	Minima 0 Maxima	Min inten:	99.	
Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
38.98?F	3.57	0.48	414.	148.03 F	1.53	0.21	177.
39.92?F	10.97	1.48	1272.	155.00 F	1.09	0.15	127.
40.99?F	1.91	0.26	222.	156.02 F	1.66	0.23	193.
43.00?F	1.90	0.26	220.	161.03 F	1.14	0.15	132.
43.97?F	1.90	0.26	220.	167.03 F	3.39	0.46	393.
46.79?F	1.28	0.17	148.	168.03 F	2.02	0.27	234.
48.96?F	5.80	0.78	673.	175.05 F	1.51	0.20	175.
49.98?F	8.40	1.14	974.	178.98 F	2.37	0.32	275.
50.96?F	37.93	5.13	4400.	180.03 F	1.76	0.24	204.
51.97?F	2.16	0.29	250.	181.03 F	1.00	0.14	116.
55.00?F	1.77	0.24	205.	185.03 F	1.28	0.17	149.
55.99?F	1.64	0.22	190.	186.03 F	10.53	1.42	1222.
56.97?F	4.49	0.61	521.	187.03 F	3.19	0.43	370.
62.97?F	1.49	0.20	173.	192.06 F	0.97	0.13	112.
64.98?F	1.13	0.15	131.	193.05 F	1.14	0.15	132.
68.91 F	41.45	5.61	4808.	195.91 F	2.76	0.37	320.
73.00 F	2.21	0.30	256.	197.95 F	100.00	13.53	11600.
73.96 F	3.16	0.43	366.	198.97 F	7.11	0.96	825.
74.96 F	5.41	0.73	627.	204.02 F	2.09	0.28	242.
76.03 F	2.09	0.28	242.	205.02 F	3.84	0.52	446.
77.00 F	44.34	6.00	5144.	206.02 F	16.12	2.18	1870.
78.02 F	3.98	0.54	462.	207.05 F	3.25	0.44	377.
79.00 F	2.28	0.31	265.	210.92 F	1.67	0.23	194.
79.97 F	1.82	0.25	211.	216.95 F	3.86	0.52	448.
80.98 F	3.25	0.44	377.	221.16 F	7.12	0.96	826.
82.01 F	1.09	0.15	126.	223.00 F	1.00	0.14	116.
83.02 F	1.57	0.21	182.	224.02 F	8.64	1.17	1002.
83.95 F	4.01	0.54	465.	225.05 F	2.33	0.31	270.
85.02 F	1.21	0.16	140.	227.00 F	2.74	0.37	318.
85.95 F	2.93	0.40	340.	244.05 F	6.98	0.94	810.
90.99 F	1.08	0.15	125.	245.09 F	1.06	0.14	123.
92.98 F	2.81	0.38	326.	246.05 F	1.03	0.14	120.
98.02 F	2.14	0.29	248.	254.98 F	32.21	4.36	3736.
99.00 F	2.64	0.36	306.	256.03 F	4.90	0.66	568.
100.99 F	1.59	0.21	184.	258.00 F	1.50	0.20	174.
104.02 F	0.91	0.12	106.	273.00 F	1.21	0.16	140.
105.04 F	1.12	0.15	130.	274.00 F	3.25	0.44	377.
106.99 F	10.57	1.43	1226.	275.00 F	16.69	2.26	1936.
108.02 F	1.82	0.25	211.	276.03 F	2.27	0.31	263.
109.99 F	28.69	3.88	3328.	277.03 F	1.21	0.16	140.
111.02 F	3.92	0.53	455.	295.94 F	3.34	0.45	388.
116.98 F	3.87	0.52	449.	323.06 F	1.36	0.18	158.
123.04 F	1.22	0.17	142.	364.97 F	1.38	0.19	160.
126.98 F	43.93	5.94	5096.	423.00 F	2.62	0.35	304.
128.00 F	3.56	0.48	413.	440.97 F	6.13	0.83	711.
128.98 F	14.48	1.96	1680.	442.00 F	44.90	6.07	5208.
130.00 F	1.34	0.18	155.	443.03 F	8.71	1.18	1010.
135.03 F	2.78	0.38	322.	444.09 F	0.97	0.13	112.
137.30 F	1.29	0.17	150.				
141.00 F	1.60	0.22	186.				

AR301936

Mass List

08/06/90 13:43:00 + 6:36

Sample: DFTPP50 50NG TUNE

Conds.: INST 5100M

Data: M080601 # 396

Cali: M080601 # 2

Base m/z: 198

RIC: 85760.

65 75 Mass	0.00 % RA	0.00 % RIC	0. # Inten.	Minima 0 Maxima	Min inten:	0.
64.98?F	1.13	0.15	131.			
65.96?F	0.29	0.04	34.			
67.02?F	0.70	0.09	81.			
68.91 F	41.45	5.61	4808.			
70.01 F	0.60	0.08	70.			
71.04 F	0.84	0.11	98.			
72.02 F	0.20	0.03	23.			
73.00 F	2.21	0.30	256.			
73.96 F	3.16	0.43	366.			
74.96 F	5.41	0.73	627.			

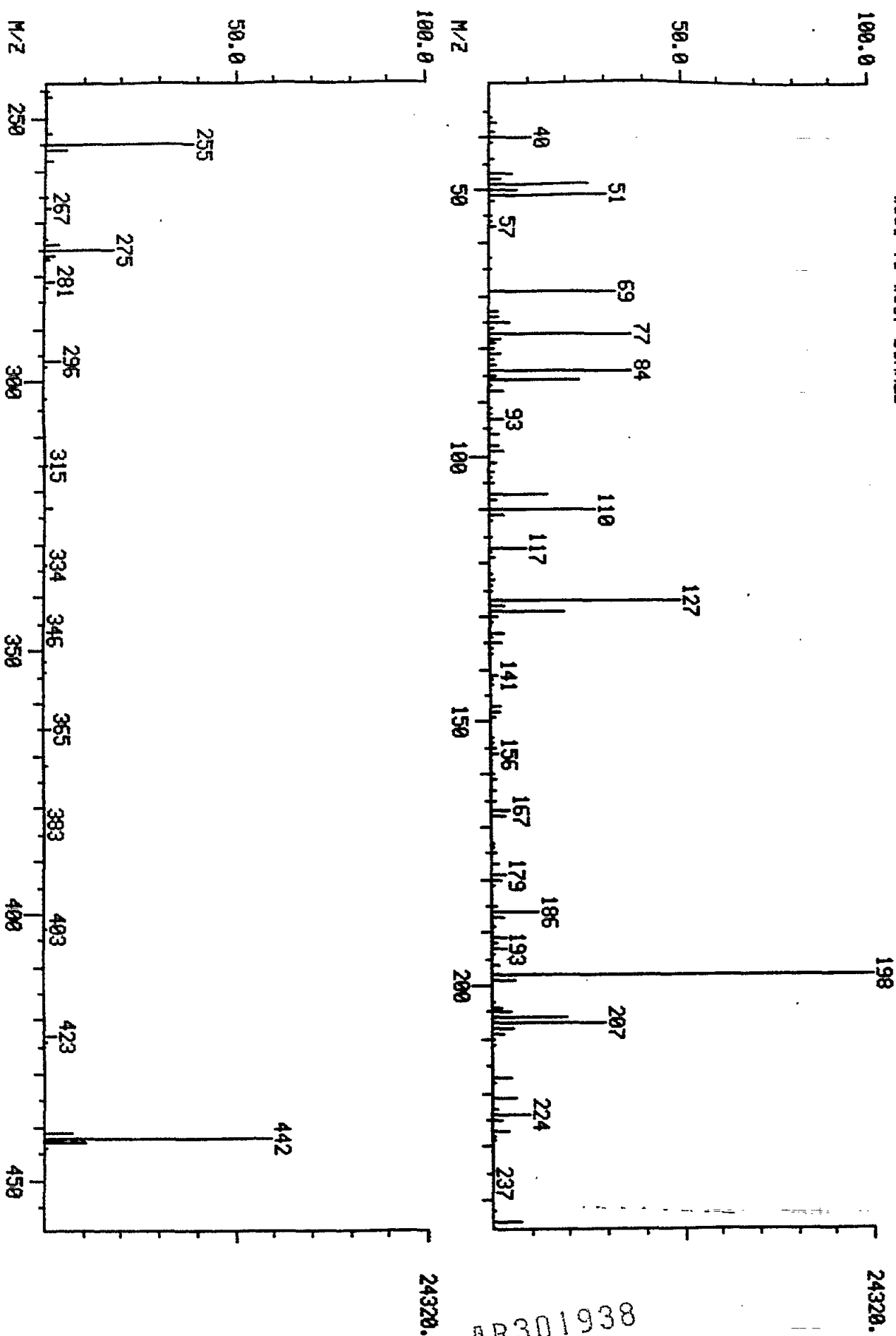
AR301937

186

MASS SPECTRUM
08/07/90 10:52:00 + 5:34
SAMPLE: DTTP 50 NG TUNE
COND.: INSTR 5100SP
GC TEMP: 268 DEG. C
#331 TO #337 SUMMED

DATA: 5080703 #334
CALL: 5080703 #2

BASE M/Z: 198
RIC: 209152.



AR301938

Iss List
 03/07/90 10:52:00 + 5:34
 Sample: DFTPP 50 NG TUNE
 nds.: INSTR 5100SP
 rmula: S080703
 mitted by: 080790
 Temp: 268 deg. C
 331 to #337 Summed

Data: S080703 # 334
 Cali: S080703 # 2

Base m/z: 198
 RIC: 209152.

187

Instrument: 5100SP
 Analyst: BKR

Weight: 0.005
 Acct. no.: RFW

36 444 Mass	0.00 % RA	0.00 % RIC	0. # Inten.	Minima 0 Maxima Mass	Min inten: 268.	268. % RA % RIC	Inten.
37.00?	1.58	0.18	384.	149.00	1.29	0.15	314.
39.00?	1.46	0.17	356.	155.00	1.16	0.13	281.
40.00?	10.74	1.25	2612.	156.00	1.80	0.21	437.
44.00?	1.31	0.15	318.	167.00	4.51	0.52	1098.
47.00?	5.97	0.69	1452.	168.00	3.43	0.40	833.
48.00?	2.73	0.32	665.	175.00	1.47	0.17	358.
49.00?	25.72	2.99	6256.	177.00	2.06	0.24	501.
50.00?	7.00	0.81	1702.	179.00	3.39	0.39	824.
51.00?	30.39	3.53	7392.	180.00	2.15	0.25	524.
52.00?	1.12	0.13	273.	185.00	1.18	0.14	288.
57.00?	1.50	0.17	365.	186.00	12.25	1.42	2980.
59.00	33.09	3.85	8048.	187.00	2.92	0.34	710.
73.00	2.35	0.27	572.	191.00	3.38	0.39	821.
74.00	2.61	0.30	635.	192.00	1.28	0.15	311.
75.00	5.33	0.62	1296.	193.00	3.46	0.40	841.
77.00	37.17	4.32	9040.	196.00	2.04	0.24	497.
78.00	2.74	0.32	667.	198.00	100.00	11.63	24320.
79.00	1.71	0.20	415.	199.00	6.14	0.71	1494.
80.00	1.36	0.16	330.	204.00	2.62	0.30	637.
81.00	2.74	0.32	667.	205.00	4.98	0.58	1212.
83.00	1.85	0.21	449.	206.00	18.91	2.20	4600.
84.00	37.11	4.31	9024.	207.00	29.54	3.43	7184.
85.00	1.53	0.18	373.	208.00	5.53	0.64	1344.
86.00	23.65	2.75	5752.	209.00	3.23	0.38	786.
88.00	3.47	0.40	845.	217.00	4.95	0.58	1204.
93.00	3.75	0.44	911.	221.00	5.69	0.66	1384.
96.00	2.53	0.29	616.	224.00	9.62	1.12	2340.
98.00	2.57	0.30	626.	225.00	2.27	0.26	553.
99.00	3.35	0.39	814.	227.00	3.95	0.46	960.
101.00	1.55	0.18	378.	244.00	7.34	0.85	1784.
105.00	1.15	0.13	280.	246.00	1.30	0.15	316.
107.00	14.84	1.73	3608.	255.00	38.88	4.52	9456.
108.00	2.08	0.24	507.	256.00	5.43	0.63	1320.
110.00	27.80	3.23	6760.	258.00	2.00	0.23	486.
111.00	3.84	0.45	934.	267.00	1.21	0.14	295.
117.00	9.59	1.11	2332.	274.00	3.40	0.39	826.
119.00	1.16	0.14	283.	275.00	18.03	2.10	4384.
123.00	1.11	0.13	270.	276.00	2.20	0.26	535.
127.00	49.87	5.80	12128.	277.00	1.35	0.16	328.
128.00	3.85	0.45	936.	281.00	2.62	0.31	638.
129.00	19.24	2.24	4680.	296.00	3.98	0.46	969.
130.00	1.53	0.18	372.	323.00	1.53	0.18	373.
133.00	3.77	0.44	918.	365.00	1.73	0.20	421.
134.00	2.85	0.33	694.	423.00	2.92	0.34	709.
137.00	1.94	0.23	473.	441.00	7.33	0.85	1782.
147.00	2.24	0.26	545.	442.00	59.08	6.87	14368.
148.00	2.14	0.25	520.	443.00	10.79	1.25	2624.

AR301939

Mass List
08/07/90 10:52:00 + 5:34
Sample: DFTPP 50 NG TUNE
Conds.: INSTR 5100SP
Formula: S080703
Submitted by: 080790
GC Temp: 268 deg. C
#331 to #337 Summed

Data: S080703 # 334
Cali: S080703 # 2

Base m/z: 198
RIC: 209152.

188

Instrument: 5100SP
Analyst: BKR

Weight: 0.005
Acct. no.: RFW

65	0.00	0.00	0. Minima	Min inten:	0.
75			# 0 Maxima		
Mass	% RA	% RIC	Inten.		
65.00?	0.37	0.04	91.		
67.00?	0.11	0.01	26.		
68.00?	0.05	0.01	12.		
69.00	33.09	3.85	8048.		
70.00	0.08	0.01	20.		
73.00	2.35	0.27	572.		
74.00	2.61	0.30	635.		
75.00	5.33	0.62	1296.		

AR301940

iss List
 vJ/07/90 10:52:00 + 5:34
 Sample: DFTPP 50 NG TUNE
 nds.: INSTR 5100SP
 rmula: S080703
 Submitted by: 080790
 Temp: 268 deg. C
 331 to #337 Summed

Data: S080703 # 334
 Cali: S080703 # 2

Base m/z: 198
 RIC: 209152.

183

Instrument: 5100SP
 Analyst: BKR

Weight: 0.005
 Acct. no.: RFW

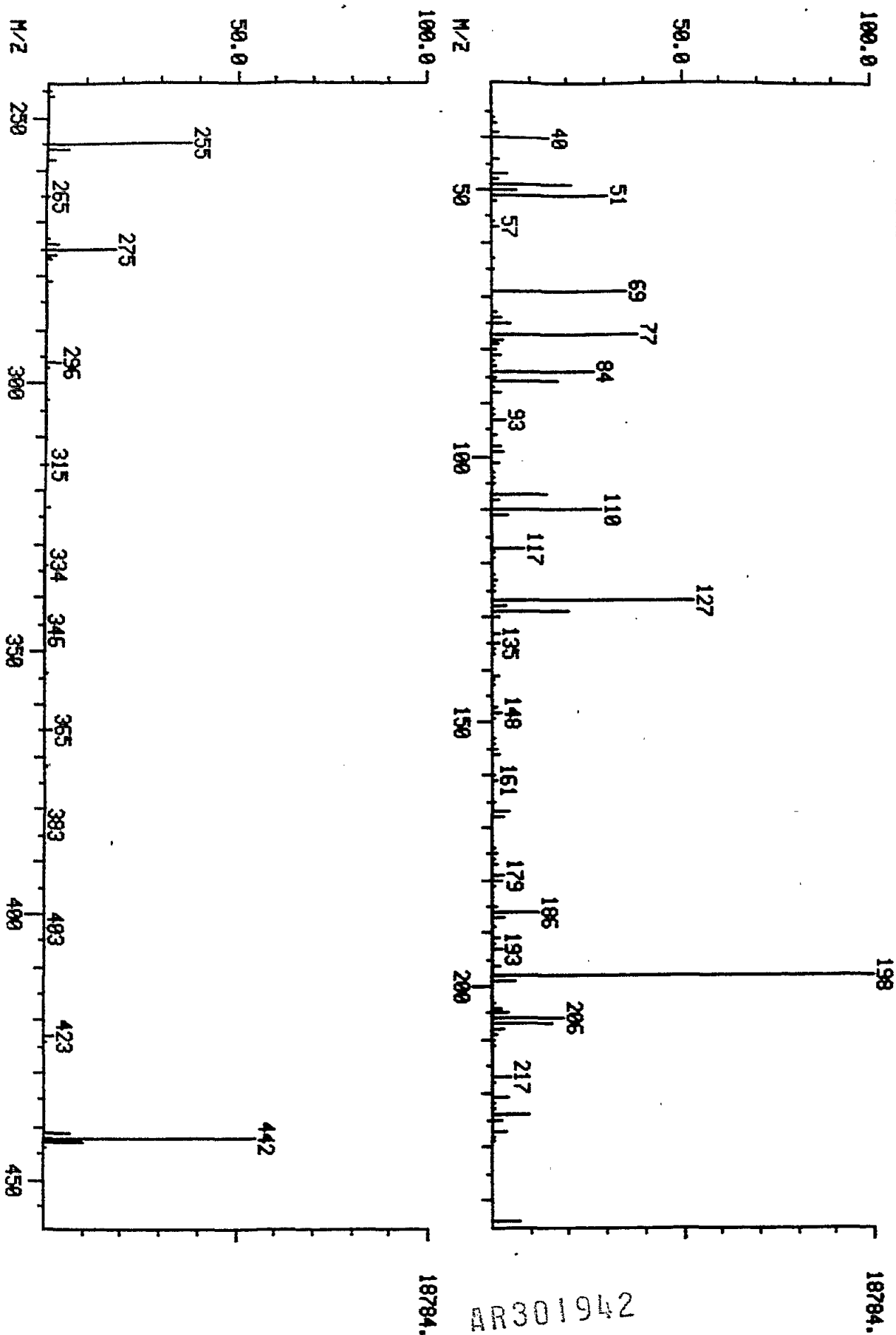
Mass	% RA	% RIC	#	0. Minima 0 Maxima Inten.	Min inten:	0.
190	0.00	0.00				
200						
71.00	3.38	0.39		821.		
72.00	1.28	0.15		311.		
193.00	3.46	0.40		841.		
194.00	0.41	0.05		99.		
75.00	0.09	0.01		23.		
196.00	2.04	0.24		497.		
197.00	0.18	0.02		43.		
78.00	100.00	11.63		24320.		
79.00	6.14	0.71		1494.		
200.00	0.23	0.03		57.		

AR301941

MASS SPECTRUM
08/07/90 19:49:00 + 5:30
SAMPLE: DFTPP 50MG TUNE
COND.: INSTR 5100SP
GC TEMP: 270 DEG. C
#328 TO #333 SUMMED

DATA: 5080714 #330
CALI: 5080714 #2

BASE M/Z: 198
RIC: 147456.



AR301942

ISS List
 08/07/90 19:49:00 + 5:30
 Sample: DFTPP 50NG TUNE
 nds.: INSTR 5100SP
 Formula: S080714
 Submitted by: 080790
 Temp: 270 deg. C
 #328 to #333 Summed

Date: S080714 # 330
 Cali: S080714 # 2

Base m/z: 198
 RIC: 147456.

Instrument: 5100SP
 Analyst: EWS

Weight: 0.000
 Acct. no.: RFW

36 444 Mass	0.00 % RA	0.00 % RIC	0. # Inten.	Minima Maxima Mass	Min inten: 156.			
						% RA	% RIC	Inten.
37.00?	1.06	0.14	200.	156.00		1.77	0.23	333.
39.00?	1.50	0.19	282.	161.00		0.98	0.13	185.
40.00?	14.76	1.88	2772.	167.00		4.21	0.54	791.
44.00?	1.92	0.24	360.	168.00		3.00	0.38	564.
47.00?	4.14	0.53	778.	175.00		1.31	0.17	246.
48.00?	1.70	0.22	320.	177.00		1.02	0.13	191.
49.00?	20.76	2.64	3900.	179.00		2.86	0.36	537.
50.00?	6.82	0.87	1282.	180.00		2.12	0.27	398.
51.00?	30.37	3.87	5704.	181.00		0.86	0.11	162.
52.00?	1.20	0.15	226.	185.00		1.27	0.16	239.
57.00?	1.64	0.21	308.	186.00	12.14	1.55		2280.
69.00	35.39	4.51	6648.	187.00	3.23	0.41		606.
73.00	1.20	0.15	225.	191.00	1.72	0.22		324.
74.00	2.52	0.32	473.	193.00	2.18	0.28		410.
75.00	4.81	0.61	903.	196.00	1.85	0.24		347.
77.00	38.07	4.85	7152.	198.00	100.00	12.74		18784.
78.00	2.82	0.36	529.	199.00	5.75	0.73		1080.
80.00	1.54	0.20	289.	204.00	2.68	0.34		504.
81.00	1.41	0.18	264.	205.00	4.41	0.56		829.
81.00	2.55	0.32	479.	206.00	18.65	2.38		3504.
83.00	1.44	0.18	271.	207.00	15.52	1.98		2916.
84.00	26.70	3.40	5016.	208.00	2.72	0.35		511.
85.00	0.99	0.13	186.	209.00	1.43	0.18		268.
86.00	17.08	2.18	3208.	217.00	4.59	0.58		862.
88.00	2.46	0.31	462.	221.00	4.24	0.54		797.
93.00	3.37	0.43	633.	223.00	0.86	0.11		162.
95.00	1.17	0.15	219.	224.00	9.80	1.25		1840.
98.00	2.42	0.31	454.	225.00	2.24	0.28		420.
99.00	2.94	0.38	553.	227.00	3.56	0.45		668.
101.00	1.55	0.20	292.	244.00	7.43	0.95		1396.
103.00	0.84	0.11	158.	246.00	1.06	0.14		200.
107.00	14.65	1.87	2752.	255.00	37.86	4.82		7112.
108.00	1.96	0.25	368.	256.00	5.19	0.66		975.
110.00	28.75	3.66	5400.	258.00	1.83	0.23		344.
111.00	3.97	0.51	745.	274.00	2.87	0.37		540.
117.00	8.67	1.10	1628.	275.00	17.91	2.28		3364.
117.00	1.00	0.13	188.	276.00	2.14	0.27		402.
128.00	52.56	6.69	9872.	277.00	1.24	0.16		233.
129.00	3.80	0.48	714.	281.00	1.14	0.15		215.
129.00	19.80	2.52	3720.	294.00	3.75	0.48		705.
131.00	1.54	0.20	290.	323.00	1.30	0.17		244.
133.00	1.73	0.22	325.	334.00	0.85	0.11		159.
137.00	1.95	0.25	366.	365.00	1.69	0.22		318.
137.00	1.93	0.25	363.	423.00	2.48	0.32		466.
148.00	1.30	0.17	244.	441.00	6.87	0.87		1290.
148.00	2.19	0.28	412.	442.00	54.94	7.00		10320.
157.00	1.22	0.16	229.	443.00	10.20	1.30		1916.

AR 301943

Mass List
08/07/90 19:49:00 + 5:30
Sample: DFTPP SONG TUNE
Conds.: INSTR 5100SP
Formula: S080714
Submitted by: 080790
GC Temp: 270 deg. C
#328 to #333 Summed

Data: S080714 # 330
Cali: S080714 # 2

Base m/z: 198
RIC: 147456.

192

Instrument: 5100SP
Analyst: EWS

Weight: 0.000
Acct. no.: RFW

Mass	% RA	% RIC	0. Minima # 0 Maxima Inten.	Min inten:	0.
65	0.00	0.00	80.		
65.00?	0.43	0.05	6648.		
69.00	35.39	4.51	13.		
70.00	0.07	0.01	225.		
73.00	1.20	0.15	473.		
74.00	2.52	0.32	903.		
75.00	4.81	0.61			

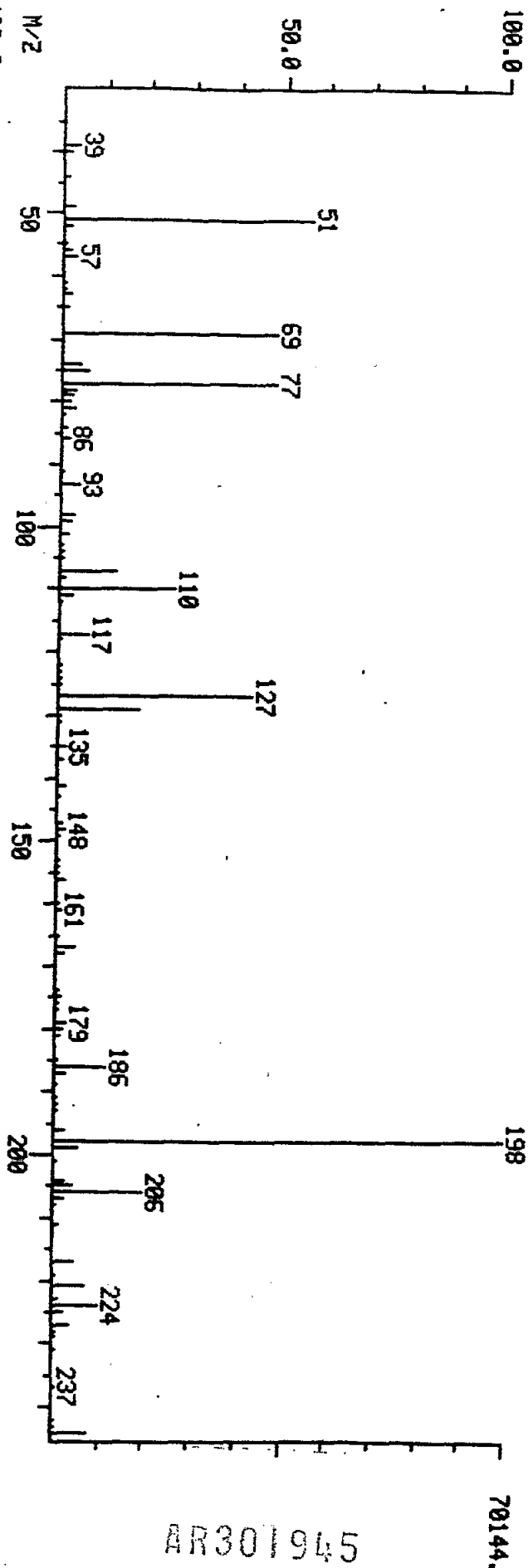
AR301944

193

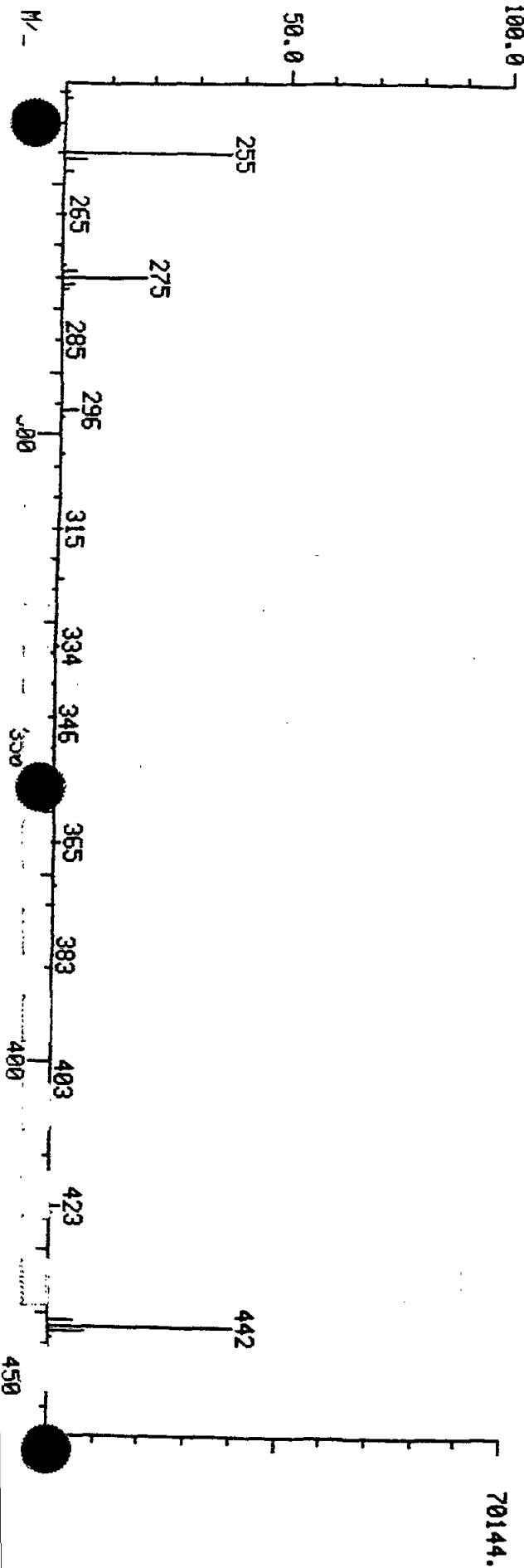
MASS SPECTRUM
08/08/90 9:08:00 + 5:33
SAMPLE: DFTPP 50 NG TUNE
COND.S.: INSTR 5100SP
GC TEMP: 266 DEG. C
#332 TO #334 SUMMED -- #330

DATA: 5080801 #333
CALL: 5080801 #2

BASE M/Z: 198
RIC: 483328.



AR301945



Mass List
 08/08/90 9:08:00 + 5:33
 Sample: DFTPP 50 NG TUNE
 Conds.: INSTR 5100SP
 Formula: S080801
 Submitted by: 080890
 GC Temp: 266 deg. C
 #332 to #334 Summed - #330

Data: S080801 # 333
 Cali: S080801 # 2

Base m/z: 198
 RIC: 483328.

Instrument: 5100SP
 Analyst: BKR

Weight: 0.005
 Acct. no.: RFW

36 444 Mass	0.00 % RA	0.00 % RIC	0. # Inten.	Minima 0 Maxima Mass	Min inten:	441. % RA % RIC	Inten.
39.00?	3.88	0.56	2724.	168.00	1.79	0.26	1258.
40.00? S	1.88	0.27	1320.	174.00	0.88	0.13	619.
44.00? S	0.95	0.14	666.	175.00	1.36	0.20	955.
49.00? S	2.51	0.36	1760.	179.00	2.64	0.38	1850.
51.00? S	55.75	8.09	39104.	180.00	1.79	0.26	1254.
52.00? S	1.95	0.28	1370.	181.00	0.93	0.14	653.
56.00? S	1.50	0.22	1052.	185.00	0.81	0.12	566.
57.00? S	2.95	0.43	2072.	186.00	11.46	1.66	8040.
63.00?	1.52	0.22	1068.	187.00	2.61	0.38	1828.
65.00?	1.03	0.15	723.	192.00	0.83	0.12	583.
69.00 S	47.81	6.94	33536.	193.00	S 0.86	0.12	602.
74.00	4.31	0.63	3024.	196.00	2.47	0.36	1730.
75.00	5.86	0.85	4112.	198.00	100.00	14.51	70144.
77.00	48.08	6.98	33728.	199.00	5.13	0.74	3600.
78.00	3.03	0.44	2124.	204.00	2.57	0.37	1800.
79.00	2.14	0.31	1500.	205.00	3.95	0.57	2768.
80.00	1.77	0.26	1242.	206.00	19.73	2.86	13840.
81.00 S	2.72	0.40	1910.	207.00	S 2.28	0.33	1598.
82.00 S	0.76	0.11	533.	211.00	1.03	0.15	722.
84.00 S	1.43	0.21	1000.	217.00	4.78	0.69	3356.
86.00 S	2.03	0.29	1424.	219.00	S 0.88	0.13	618.
91.00	0.67	0.10	473.	221.00	7.20	1.04	5048.
93.00	3.94	0.57	2764.	223.00	1.01	0.15	710.
98.00	2.72	0.39	1906.	224.00	10.45	1.52	7328.
99.00	2.45	0.36	1718.	225.00	2.24	0.33	1572.
101.00	1.84	0.27	1288.	227.00	3.73	0.54	2616.
104.00	0.73	0.11	513.	229.00	0.80	0.12	561.
105.00	0.72	0.11	508.	244.00	7.88	1.14	5528.
107.00	12.41	1.80	8704.	245.00	0.81	0.12	569.
108.00	1.44	0.21	1012.	246.00	1.35	0.20	947.
110.00	25.78	3.74	18080.	255.00	36.95	5.36	25920.
111.00	2.89	0.42	2030.	256.00	4.56	0.66	3196.
117.00	6.52	0.95	4576.	258.00	2.00	0.29	1406.
123.00	0.86	0.12	602.	265.00	0.67	0.10	469.
127.00	43.16	6.26	30272.	273.00	0.88	0.13	620.
129.00	18.16	2.64	12736.	274.00	3.04	0.44	2132.
130.00	0.89	0.13	622.	275.00	18.52	2.69	12992.
135.00	1.62	0.24	1138.	276.00	2.24	0.32	1570.
137.00	0.98	0.14	690.	277.00	1.09	0.16	767.
141.00	1.74	0.25	1222.	296.00	3.40	0.49	2384.
143.00	0.63	0.09	442.	328.00	1.22	0.18	859.
147.00	1.06	0.15	744.	334.00	0.67	0.10	470.
148.00	1.56	0.23	1092.	365.00	1.23	0.18	862.
155.00	0.67	0.10	471.	423.00	2.16	0.31	1514.
156.00	1.82	0.26	1276.	441.00	5.30	0.77	3716.
161.00	0.94	0.14	661.	442.00	40.92	5.94	28704.
167.00	4.04	0.59	2836.	443.00	AR301946 1.11		5360.

AR301946

Mass List

0 08/90 9:08:00 + 5:33

Sample: DFTPP 50 NG TUNE

Cond.: INSTR 5100SP

Formula: S080801

Submitted by: 080890

GC Temp: 266 deg. C

#332 to #334 Summed - #330

Data: S080801 # 333

Cali: S080801 # 2

Base m/z: 198

RIC: 483328.

Instrument: 5100SP

Analyst: BKR

Weight: 0.005

Acct. no.: RFW

65	0.00	0.00	0.	Minima	Min inten:	0.
75			#	0	Maxima	
Mass	% RA	% RIC	Inten.			
65.00?	1.03	0.15	723.			
67.00?	S 0.02	0.00	11.			
69.00	S 47.81	6.94	33536.			
70.00	S 0.14	0.02	99.			
71.00	S 0.10	0.01	70.			
74.00	4.31	0.63	3024.			
75.00	5.86	0.85	4112.			

AR301947

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. 196

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

SBLK

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 90LE0803-MB1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: M080611

Level: (low/med) LOW

Date Received: 08/03/90

% Moisture: not dec. _____ dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	20	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	bis(2-Chloroisopropyl)ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
65-85-0-----	Benzoic acid	50	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	20	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	20	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

FORM 1 SV-1

12/88 Rev.

AR301948

1C.
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

197

SBLK

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER Lab Sample ID: 90LE0803-MB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M080611

Level: (low/med) LOW Date Received: 08/03/90

% Moisture: not dec. dec. Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-Octyl phthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM 1 SV-2

12/88 Rev.

AR301949

ID
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SBLK

198

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 90LE0803-MB1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: M080611

Level: (low/med) LOW

Date Received: 08/03/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

62-53-3-----	Aniline	10	U
62-75-9-----	N-Nitrosodimethylamine	10	U
92-87-5-----	Benzidine	50	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U
108-70-3-----	1,3,5-Trichlorobenzene	10	U
95-94-3-----	1,2,4,5-Tetrachlorobenzene	10	U
634-66-2-----	1,2,3,4-Tetrachlorobenzene	10	U
608-93-5-----	Pentachlorobenzene	10	U
121-73-3-----	1-Chloro-3-nitrobenzene	10	U

FORM 1 SV-3

12/88 Rev.

AR301950

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

199

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

SBLK

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 90LE0803-MB1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: M080611

Level: (low/med) LOW

Date Received: 08/03/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

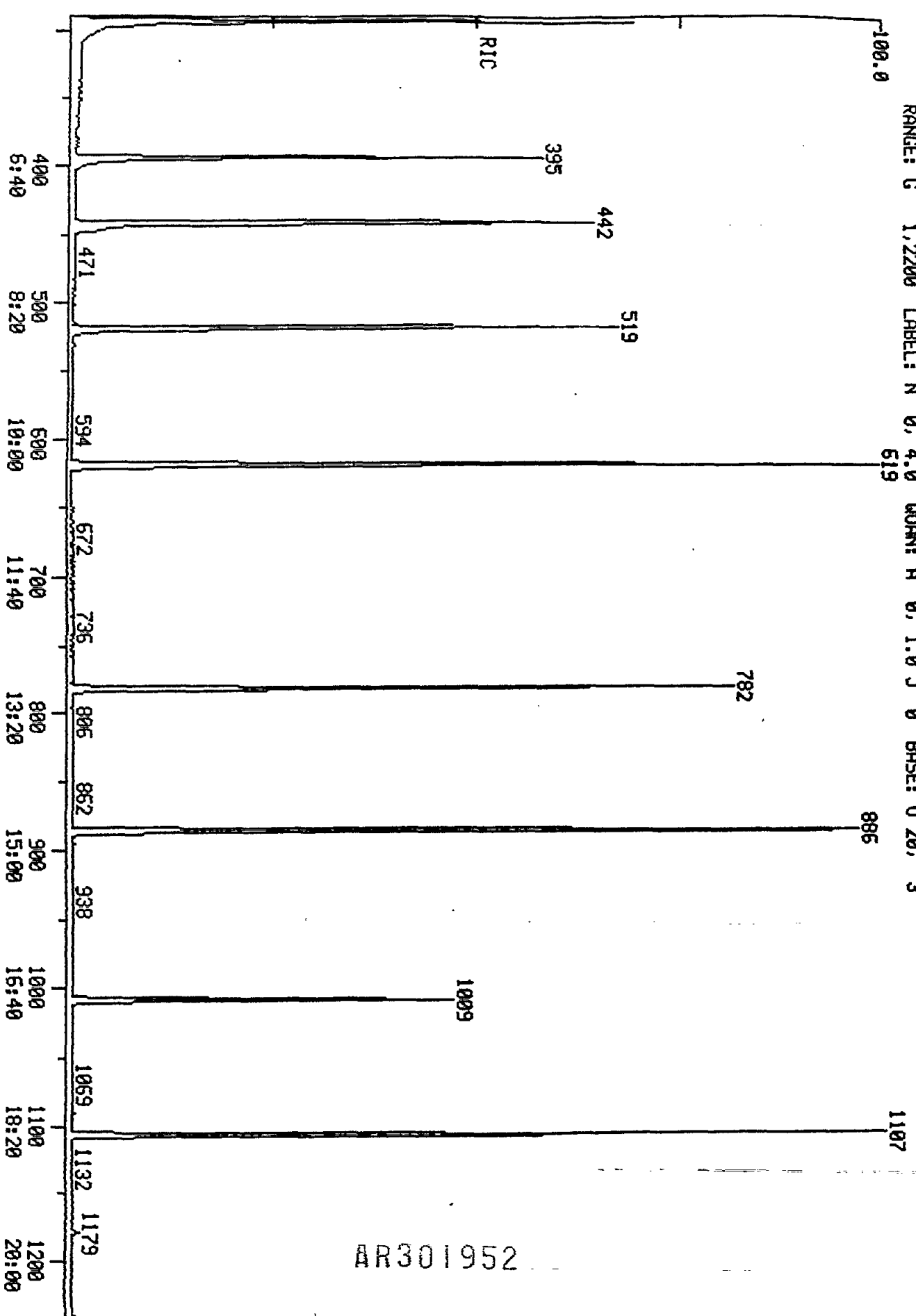
200

RIC
08/06/90 21:58:00
SAMPLE: 90LE0803-MB1
COND5.: INST 5100M
RANGE: C 1,2200 LABEL: N 0, 4.0

DATA: M0806 #1
CALI: M0806 #2

SCANS 290 TO 1245
OUT OF 290 TO 2200

QUAN: A 0, 1.0 J 0 BASE: U 20, 3



AR301952

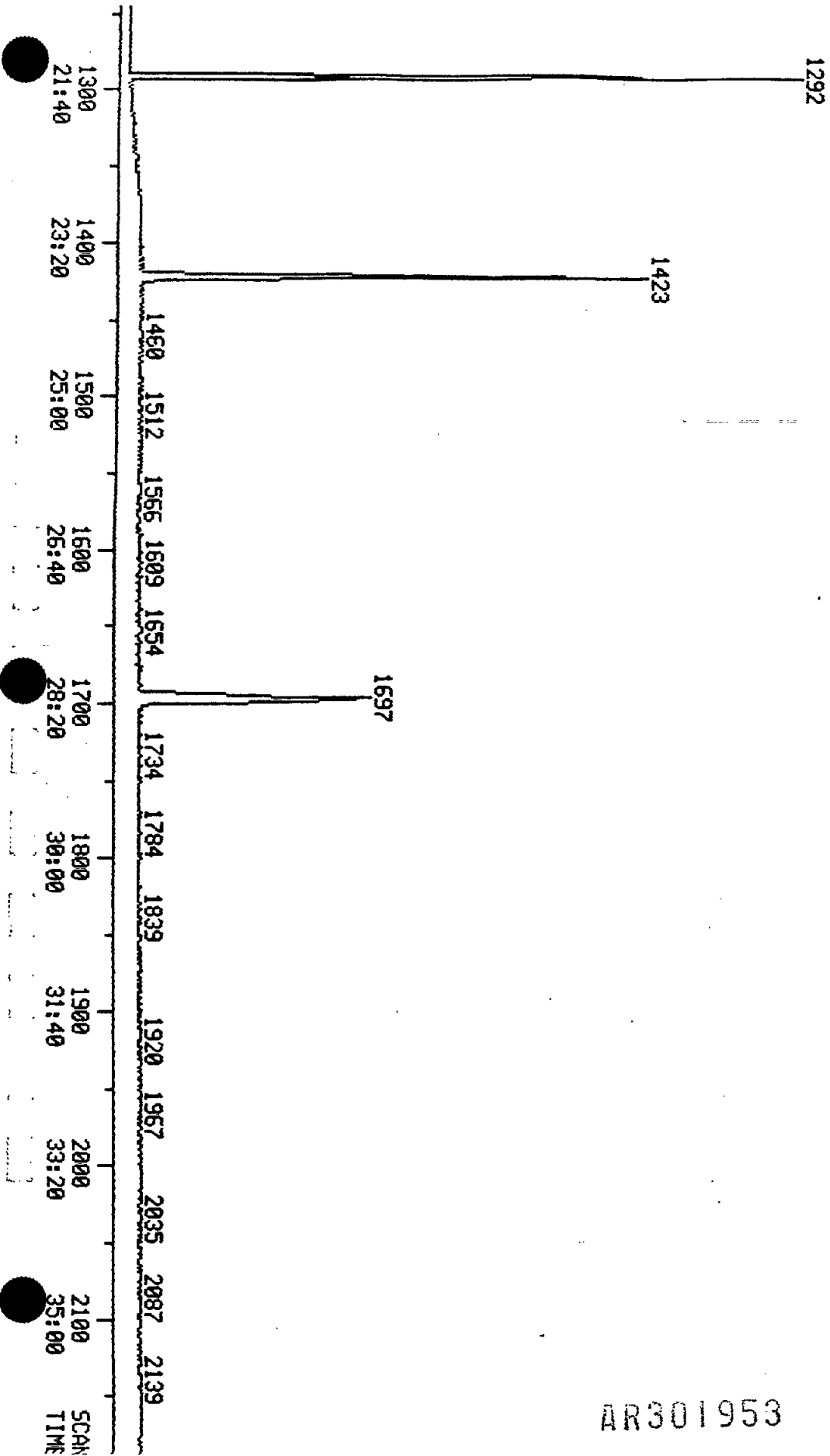
201

100.0

RIC
08/06/90 21:58:00
SAMPLE: 90LE0803-MB1
CONDS.: INST 5100M
RANGE: C 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: M080611 #1
CALI: M080611 #2
SCANS 1245 TO 2200
OUT OF 290 TO 2200

113024.

AR301953



Data: M080611.TI
08/06/90 21:58:00
Sample: 90LE0803-MB1
Conds.: INST 5100M
Formula: M080601
Submitted by: 080690

Instrument: 5100M
Analyst: SLN

Weight: 0.006
Acct. No.: 5100M

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-DB	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHET	

AR301954

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	442	7:22	1	1.000	A BB	30429.	40.000 NG ✓	8.46
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	99	395	6:35	1	0.894	A BB	48036.	28.309 NG ✓	5.99
15	112	294	4:54	1	0.665	A BB	56898.	44.760 NG ✓	9.47
16	136	619	10:19	16	1.000	A BB	117771.	40.000 NG ✓	8.46
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	82	519	8:39	16	0.838	A BB	54262.	31.716 NG ✓	6.71
31	164	886	14:46	31	1.000	A BB	57814.	40.000 NG ✓	8.46
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	172	782	13:02	31	0.883	A BB	64963.	35.887 NG ✓	7.59

AR301955

Quantitation Report File: M080611

Data: M080611.TI

08/06/90 21:58:00

Sample: 90LE0803-MB1

Conds.: INST 5100M

Formula: M080601

Submitted by: OBC690

Instrument: 5100M

Analyst: SLN

Weight: 0.006

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLEETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	1008	16:48	31	1.138	A BB	9274.	52.341 NG ✓	11.07
52	188	1107	18:27	52	1.000	A BB	80546.	40.000 NG ✓	8.46
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								
58	NOT FOUND								
59	NOT FOUND								
60	149	1179	19:39	52	1.065	A BB	1387.	0.512 NGd	0.11
61	NOT FOUND								
62	240	1423	23:43	62	1.000	A BB	43829.	40.000 NG ✓	8.46
63	NOT FOUND								
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								

AR301956

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	NOT FOUND								
69	244	1292	21:32	62	0.908	A BB	41702.	39.188 NG ✓	8.29
70	264	1697	28:17	70	1.000	A BB	36717.	40.000 NG ✓	8.46
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								
76	NOT FOUND								
77	NOT FOUND								

AR301957

18
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SBLKMS

206

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 90LE0803-MB1 BS

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: M080612

Level: (low/med) LOW

Date Received: 08/03/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

108-95-2-----	Phenol		S
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol		S
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene		S
100-51-6-----	Benzyl alcohol	20	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	bis(2-Chloroisopropyl)ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-propylamine		S
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
65-85-0-----	Benzoic acid	50	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene		S
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	20	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol		S
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

S: SPIKE COMPOUND

FORM 1 SV-1

12/88 Rev.

AR301958

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SBLKMS

207

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER Lab Sample ID: 90LE0803-MB1 BS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M080612

Level: (low/med) LOW Date Received: 08/03/90

% Moisture: not dec. dec. Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene		S
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol		S
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene		S
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol		S
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene		S
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-Octyl phthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

S: SPIKE COMPOUND

FORM 1 SV-2

12/88 Rev.

AR301959

ID
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SBLKMS

208

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 90LE0803-MB1 BS

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: M080612

Level: (low/med) LOW

Date Received: 08/03/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

62-53-3-----	Aniline	10	U
62-75-9-----	N-Nitrosodimethylamine	10	U
92-87-5-----	Benzidine	50	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U
108-70-3-----	1,3,5-Trichlorobenzene	10	U
95-94-3-----	1,2,4,5-Tetrachlorobenzene	10	U
634-66-2-----	1,2,3,4-Tetrachlorobenzene	10	U
608-93-5-----	Pentachlorobenzene	10	U
121-73-3-----	1-Chloro-3-nitrobenzene	10	U

S: SPIKE COMPOUND

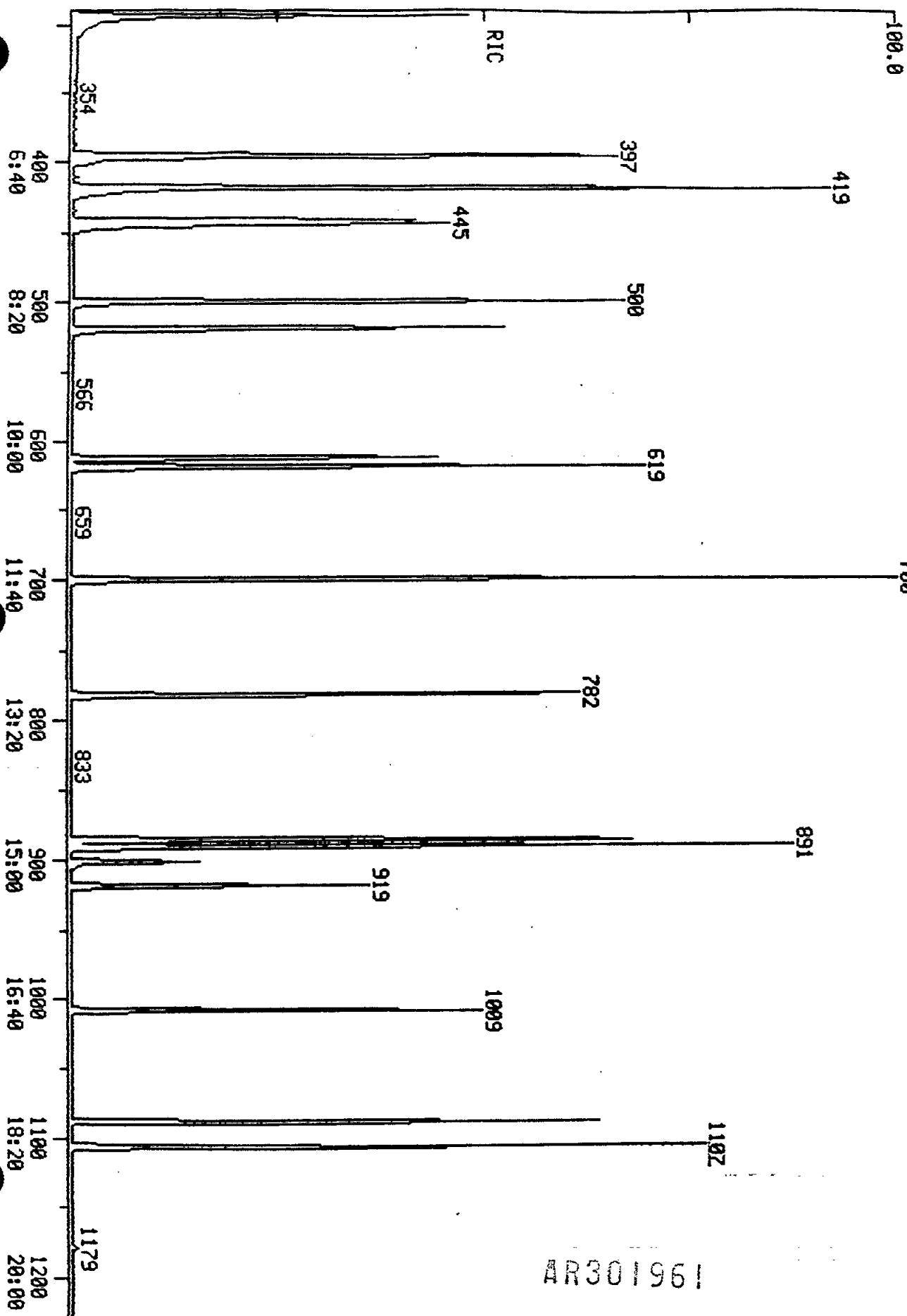
FORM 1 SV-3

12/88 Rev.

AR301960

RIC
08/06/90 22:45:00
SAMPLE: 90LE0803-MB15
COND5.: INST 5100M
RANGE: G 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: M080612 #1
CALI: M080612 #2
SCANS 290 TO 1245
OUT OF 290 TO 2200



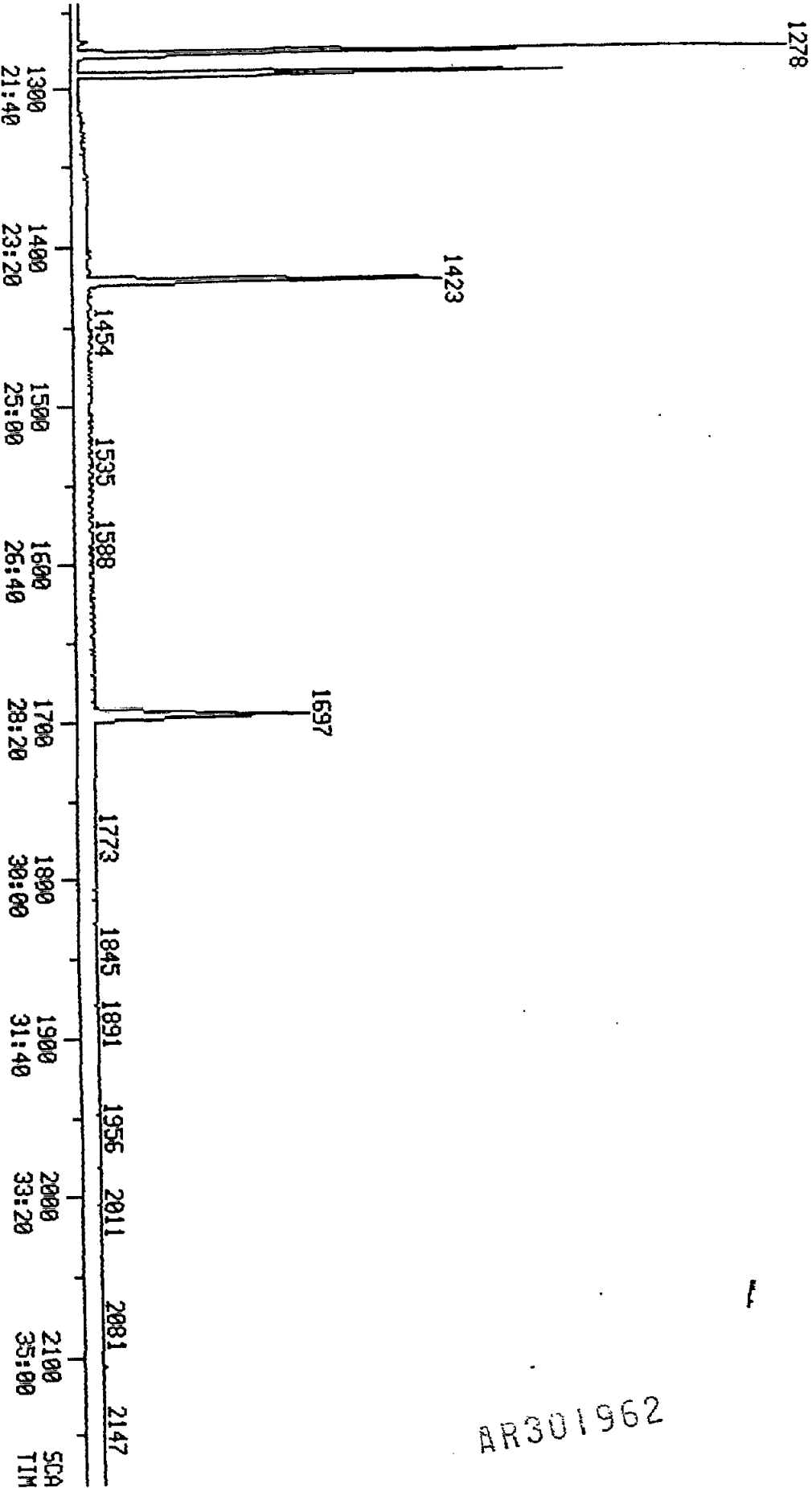
AR301961

210

100.0

RIC
08/06/90 22:45:00
SAMPLE: 90LE0803-MB15
CONDOS.: INST 5100M
RANGE: G 1,2200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: M0806 #1
CALI: M080612 #2
SCANS 1245 TO 2200
OUT OF 290 TO 2200

162815.



AR301962

Data: M080612.T1

08/06/90 22:45:00

Sample: 90LE0803-MB1S

Conds.: INST 5100M

Formula: M080601

Submitted by: 080690

Instrument: 5100M

Analyst: SLN

Weight: 0.006

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
1	C130 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	

AR301963

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	442	7:22	1	1.000	A BB	30749.	40.000 NG✓	3.63
2	94	397	6:37	1	0.898	A BB	62952.	37.145 NG✓	3.37
3	NOT FOUND								
4	128	419	6:59	1	0.948	A BB	85230.	76.651 NG✓	6.95
5	146	445	7:25	1	1.007	A BB	38719.	32.405 NGX	2.94
6	146	445	7:25	1	1.007	A BB	38719.	31.424 NG✓	2.85
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	70	500	8:20	1	1.131	A BB	52785.	45.252 NG✓	4.10
13	NOT FOUND								
14	99	395	6:35	1	0.894	A BB	55363.	32.287 NG✓	2.93
15	112	294	4:54	1	0.665	A BB	63264.	49.250 NG✓	4.46
16	136	619	10:19	16	1.000	A BB	121372.	40.000 NG✓	3.63
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	180	613	10:13	16	0.990	A BB	30564.	36.784 NG✓	3.33
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	107	700	11:40	16	1.131	A BB	76386.	69.679 NG✓	6.32
29	NOT FOUND								
30	82	519	8:39	16	0.838	A BB	61838.	35.072 NG✓	3.18
31	164	887	14:47	31	1.000	A BB	60091.	40.000 NG✓	3.63
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	152	891	14:51	31	1.005	A BB	35888.	12.498 NGX	1.13
39	NOT FOUND								
40	153	891	14:51	31	1.005	A BB	72865.	41.531 NG✓	3.76
41	NOT FOUND								
42	109	902	15:02	31	1.017	A BB	4127.	21.156 NG✓	1.92
43	NOT FOUND								
44	165	919	15:19	31	1.036	A BB	22518.	35.234 NG✓	3.19
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	172	782	13:02	31	0.882	A BB	75076.	39.902 NG✓	3.62

AR301964

Quantitation Report File: M080612

213

Data: M080612.TI

08/06/90 22:45:00

Sample: 90LE0803-MB1S

Conds.: INST 5100M

Formula: M080601

Submitted by: 080690

Instrument: 5100M

Analyst: SLN

Weight: 0.006

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHENYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	XTot
51	330	1008	16:48	31	1.136	A BB	12354.	67.083 NG ✓	6.08
52	188	1107	18:27	52	1.000	A BB	84020.	40.000 NG ✓	3.63
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	266	1089	18:09	52	0.984	A BB	17031.	71.091 NG ✓	6.44
58	NOT FOUND								
59	NOT FOUND								
60	NOT FOUND								
61	202	1278	21:18	52	1.154	A BB	85230.	43.350 NG ✓	3.93
62	240	1423	23:43	62	1.000	A BB	45024.	40.000 NG ✓	3.63
63	202	1278	21:18	62	0.898	A BB	85230.	43.665 NG ✓	3.96
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								

AR301965

214

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT	FOUND							
68	NOT	FOUND							
69	244	1291	21:31	62	0.907	A BB	45888.	41.977 NG✓	3.80
70	264	1697	28:17	70	1.000	A BB	38452.	40.000 NG✓	3.63
71	NOT	FOUND							
72	NOT	FOUND							
73	NOT	FOUND							
74	NOT	FOUND							
75	NOT	FOUND							
76	NOT	FOUND							
77	NOT	FOUND							

AR301966

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SBLKMSD

215

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER Lab Sample ID: 90LE0803-MB1 BSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M080613

Level: (low/med) LOW Date Received: 08/03/90

% Moisture: not dec. dec. Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

108-95-2-----	Phenol		S
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol		S
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene		S
100-51-6-----	Benzyl alcohol	20	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	bis(2-Chloroisopropyl)ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-propylamine		S
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
65-85-0-----	Benzoic acid	50	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene		S
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	20	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol		S
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

S: SPIKE COMPOUND

FORM 1 SV-1

AR301967

12/88 Rev.

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

216

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

SBLKMSD

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 90LE0803-MB1 BSD

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: M080613

Level: (low/med) LOW

Date Received: 08/03/90

% Moisture: not dec. _____ dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene		S
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol		S
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene		S
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol		S
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene		S
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-Octyl phthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine
S: SPIKE COMPOUND FORM 1 SV-2

12/88 Rev.

AR301968

1D
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

SBLKMSD

217

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER Lab Sample ID: 90LE0803-MB1 BSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M080613

Level: (low/med) LOW Date Received: 08/03/90

% Moisture: not dec. dec. Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

62-53-3-----	Aniline	10	U
62-75-9-----	N-Nitrosodimethylamine	10	U
92-87-5-----	Benzidine	50	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U
108-70-3-----	1,3,5-Trichlorobenzene	10	U
95-94-3-----	1,2,4,5-Tetrachlorobenzene	10	U
634-66-2-----	1,2,3,4-Tetrachlorobenzene	10	U
608-93-5-----	Pentachlorobenzene	10	U
121-73-3-----	1-Chloro-3-nitrobenzene	10	U

S: SPIKE COMPOUND

FORM 1 SV-3

12/88 Rev.

AR301969

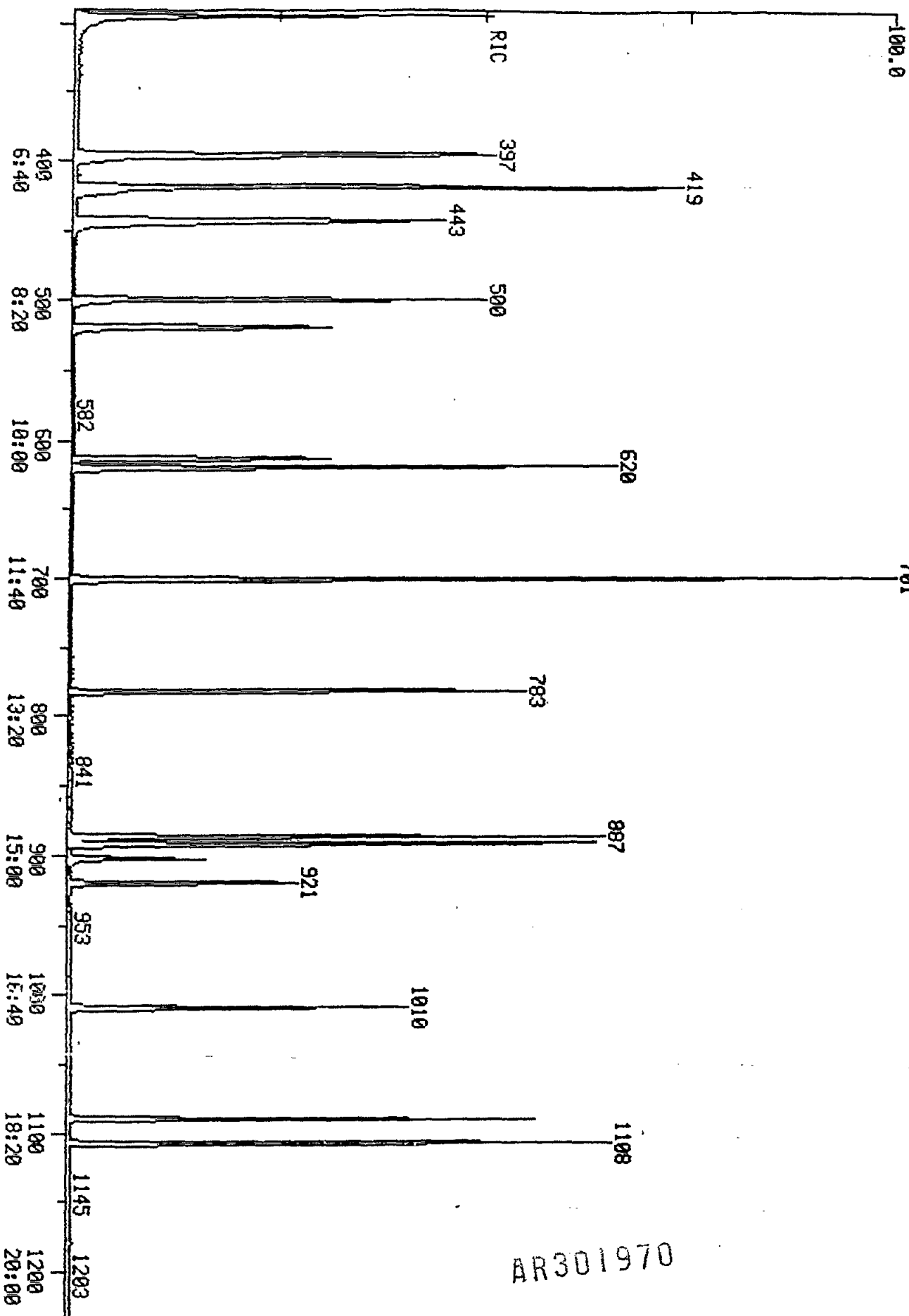
218

RIC
08/06/90 23:32:00
SAMPLE: 90LE0803-MB1T
CONDS.: INST 5100M
RANGE: G 1,2200 LABEL: N 0, 4.0

DATA: M080615 #1
CALI: M080615 #2

SCANS 290 TO 1245
OUT OF 290 TO 2200

QUAN: A 0, 1.0 J 0 BASE: U 20, 3



AR301970

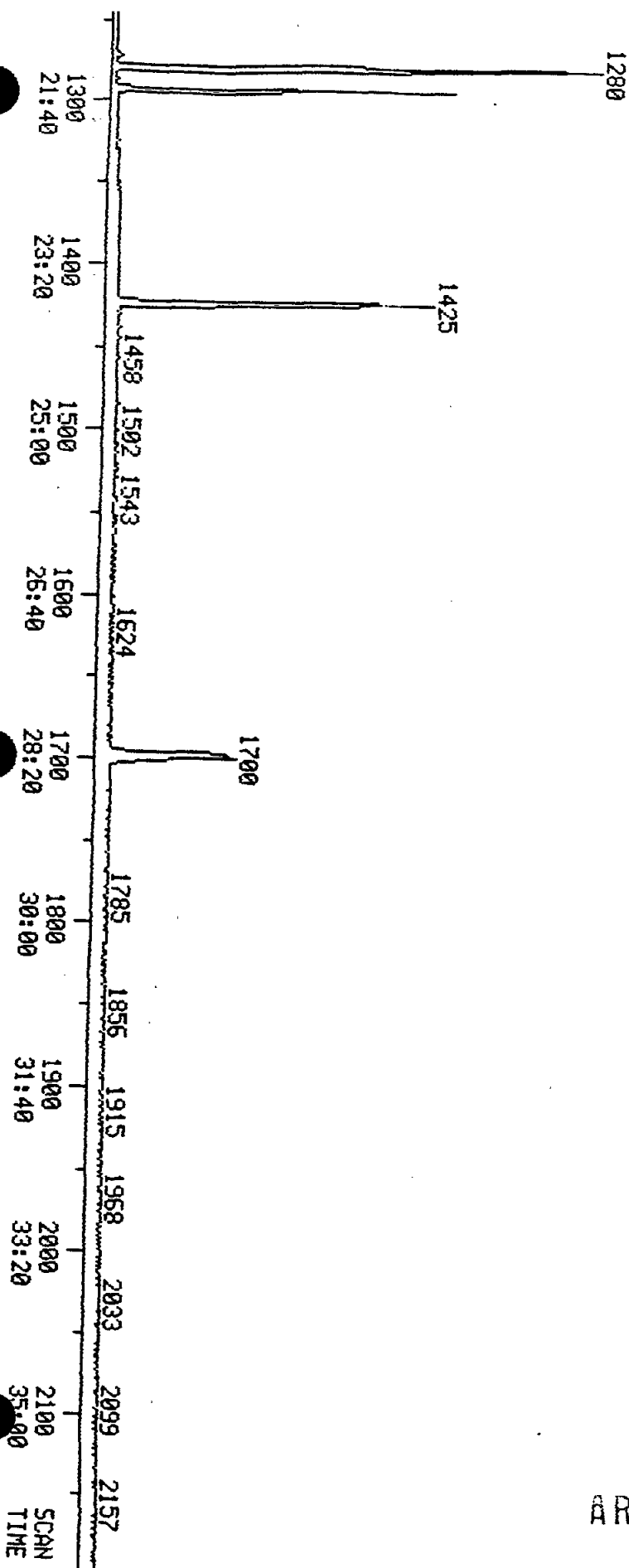
219

100.0

RIC
08/06/90 23:32:00
SAMPLE: 90LE0803-MB1T
COND5.: INST 5100M
RANGE: G 1,2200 LABEL: N 0. 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: M080613 #1
CALI: M080613 #2
SCANS 1245 TO 2200
OUT OF 290 TO 2200

192758.

AR301971



Data: M080613.TI
08/06/90 23:32:00
Sample: 90LE0803-MB1T
Conds.: INST 5100M
Formula: M080601
Submitted by: 080690

Instrument: 5100M
Analyst: SLN

Weight: 0.015
Acct. No.: 5100M

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301972

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	443	7:23	1	1.000	A BB	30803.	40.000 NG✓	3.60
2	94	397	6:37	1	0.896	A BB	69381.	40.867 NG✓	3.68
3	NOT FOUND								
4	128	419	6:59	1	0.946	A BB	94812.	85.119 NG✓	7.66
5	146	445	7:25	1	1.005	A BB	34808.	29.081 NG✓	2.62
6	146	445	7:25	1	1.005	A BB	34808.	28.200 NG✓	2.54
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	70	500	8:20	1	1.129	A BB	44828.	38.363 NG✓	3.45
13	NOT FOUND								
14	99	396	6:36	1	0.894	A BB	60332.	35.123 NG✓	3.16
15	112	295	4:55	1	0.666	A BB	68460.	53.201 NG✓	4.79
16	136	620	10:20	16	1.000	A BB	120039.	40.000 NG✓	3.60
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	180	614	10:14	16	0.990	A BB	27265.	33.178 NG✓	2.99
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	107	701	11:41	16	1.131	A BB	85157.	78.542 NG✓	7.07
29	NOT FOUND								
30	82	520	8:40	16	0.839	A BB	52590.	30.158 NG✓	2.71
31	164	887	14:47	31	1.000	A BB	59324.	40.000 NG✓	3.60
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	152	892	14:52	31	1.006	A BB	31883.	11.247 NGX	1.01
39	NOT FOUND								
40	153	892	14:52	31	1.006	A BB	65302.	37.701 NG✓	3.39
41	NOT FOUND								
42	109	903	15:03	31	1.018	A BB	4980.	25.859 NG✓	2.33
43	NOT FOUND								
44	165	920	15:20	31	1.037	A BB	19619.	31.095 NG✓	2.80
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	172	783	13:03	31	0.883	A BB	65462.	35.242 NG✓	3.17

AR301973

Quantitation Report File: M080613

Data: M080613.TI

08/06/90 23:32:00

Sample: 90LE0803-MB1T

Conds.: INST 5100M

Formula: M080601

Submitted by: 080690

Instrument: 5100M

Analyst: SLN

Weight: 0.015

Acct. No.: 5100M

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

Resp. fac. from Library Entry

No	Name	
51	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53	C610 4,6-DINITRO-2-METHYLPHENOL	
54	C615 N-NITROSODIPHENYLAMINE	
55	C625 4-BROMOPHENYL-PHENYLEETHER	
56	C630 HEXACHLOROBENZENE	
57	C635 PENTACHLOROPHENOL	
58	C640 PHENANTHRENE	
59	C645 ANTHRACENE	
60	C650 DI-N-BUTYLPHTHALATE	
61	C655 FLUORANTHENE	
62	CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63	C715 PYRENE	
64	C720 BUTYLBENZYLPHTHALATE	
65	C725 3,3'-DICHLOROBENZIDINE	
66	C730 BENZO(A)ANTHRACENE	
67	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
68	C740 CHRYSENE	
69	CS30 P-TERPHEYL-D14	SURROGATE STANDARD #6
70	CI75 PERYLENE-D12	INTERNAL STANDARD #6
71	C760 DI-N-OCTYLPHTHALATE	
72	C765 BENZO(B)FLUORANTHENE	
73	C770 BENZO(K)FLUORANTHENE	
74	C775 BENZO(A)PYRENE	
75	C780 INDENO(1,2,3-CD)PYRENE	
76	C785 DIBENZ(A,H)ANTHRACENE	
77	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	NG	%Tot
51	330	1010	16:50	31	1.139	A BB	13636.	75.001	NG ✓	6.75
52	188	1108	18:28	52	1.000	A BB	82016.	40.000	NG ✓	3.60
53	NOT FOUND									
54	NOT FOUND									
55	NOT FOUND									
56	NOT FOUND									
57	266	1090	18:10	52	0.984	A BB	19761.	84.502	NG ✓	7.60
58	NOT FOUND									
59	NOT FOUND									
60	NOT FOUND									
61	202	1280	21:20	52	1.155	A BB	76579.	39.902	NG ✓	3.59
62	240	1425	23:45	62	1.000	A BB	43596.	40.000	NG ✓	3.60
63	202	1280	21:20	62	0.898	A BB	76579.	40.518	NG ✓	3.65
64	NOT FOUND									
65	NOT FOUND									
66	NOT FOUND									

AR301974

223

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT	FOUND							
68	NOT	FOUND							
69	244	1293	21:33	62	0.907	A BB	40776.	38.522 NG ✓	3.47
70	264	1700	28:20	70	1.000	A BB	35996.	40.000 NG ✓	3.60
71	NOT	FOUND							
72	NOT	FOUND							
73	NOT	FOUND							
74	NOT	FOUND							
75	NOT	FOUND							
76	NOT	FOUND							
77	NOT	FOUND							

AR301975

18
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

GW4-0-1 OR6AMS

224

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 9008L253-001 MS

Sample wt/vol: 990 (g/mL) ML

Lab File ID: S080727

Level: (low/med) LOW

Date Received: 08/01/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/08/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

108-95-2-----	Phenol		S
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol		S
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene		S
100-51-6-----	Benzyl alcohol	20	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	bis(2-Chloroisopropyl)ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-propylamine		S
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
65-85-0-----	Benzoic acid	50	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene		S
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	20	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol		S
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

S: SPIKE COMPOUND

FORM 1 SV-1

12/88 Rev.

AR301976

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

GW4-0-1 OR6AMS

225

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 9008L253-001 MS

Sample wt/vol: 990 (g/mL) ML

Lab File ID: S080727

Level: (low/med) LOW

Date Received: 08/01/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/08/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene		S
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol		S
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene		S
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol		S
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene		S
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-Octyl phthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine
S: SPIKE COMPOUND FORM 1 SV-2

12/88 Rev.

AR301977

1D
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

226

GW4-0-1 OR6AMS

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 9008L253-001 MS

Sample wt/vol: 990 (g/mL) ML

Lab File ID: S080727

Level: (low/med) LOW

Date Received: 08/01/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/08/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

62-53-3-----	Aniline	10	U
62-75-9-----	N-Nitrosodimethylamine	10	U
92-87-5-----	Benzidine	50	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U
108-70-3-----	1,3,5-Trichlorobenzene	10	U
95-94-3-----	1,2,4,5-Tetrachlorobenzene	10	U
634-66-2-----	1,2,3,4-Tetrachlorobenzene	10	U
608-93-5-----	Pentachlorobenzene	10	U
121-73-3-----	1-Chloro-3-nitrobenzene	10	U

S: SPIKE COMPOUND

FORM 1 SV-3

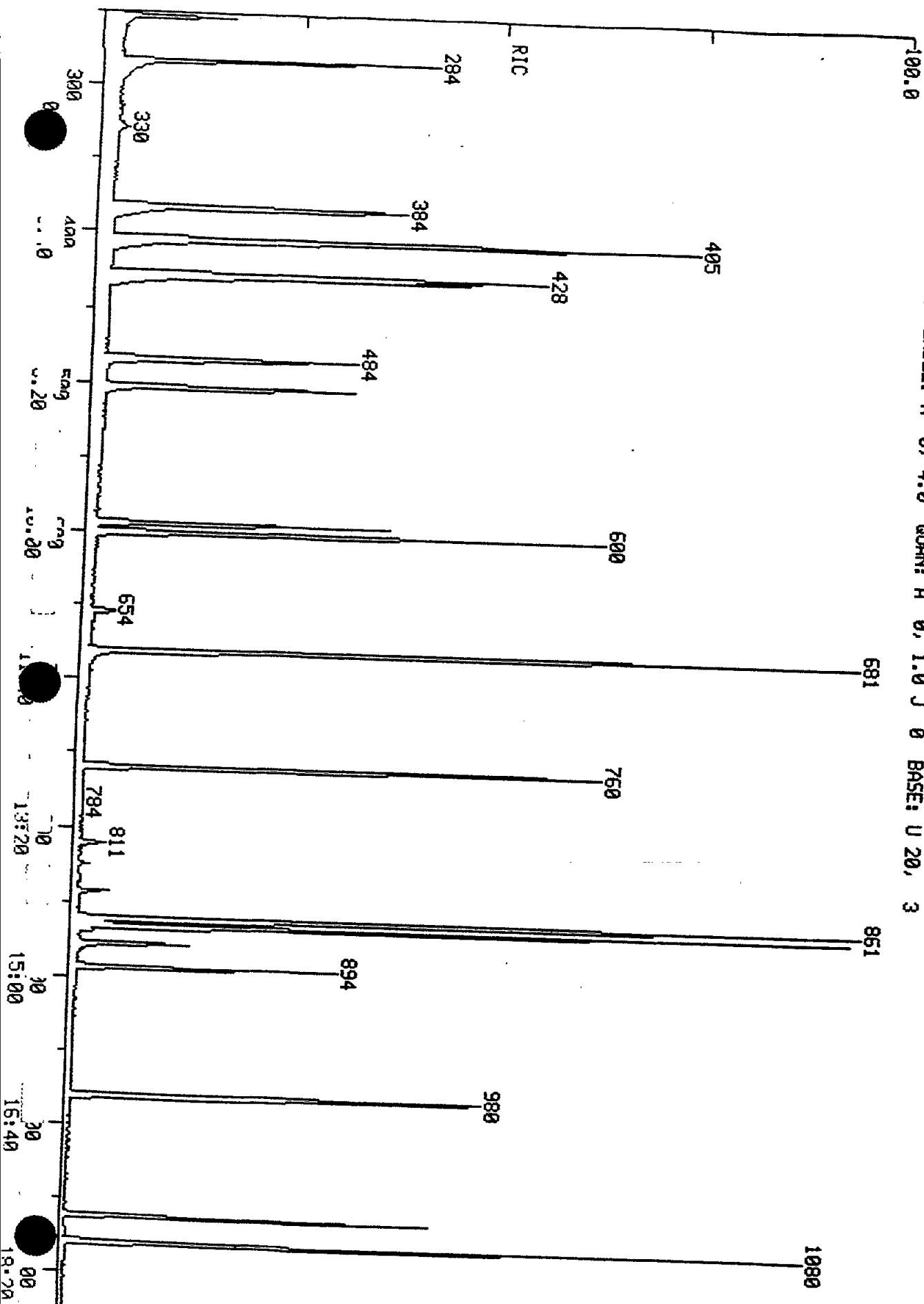
12/88 Rev.

AR301978

22

RIC
08/08/90 5:32:00
SAMPLE: 9008L253-0015 STD CHLORINE
CONDS.: INSTR 5100SP
RANGE: G 1,2000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080727 #1
CALI: 5080727 #2
SCANS 250 TO 1125
OUT OF 250 TO 2000



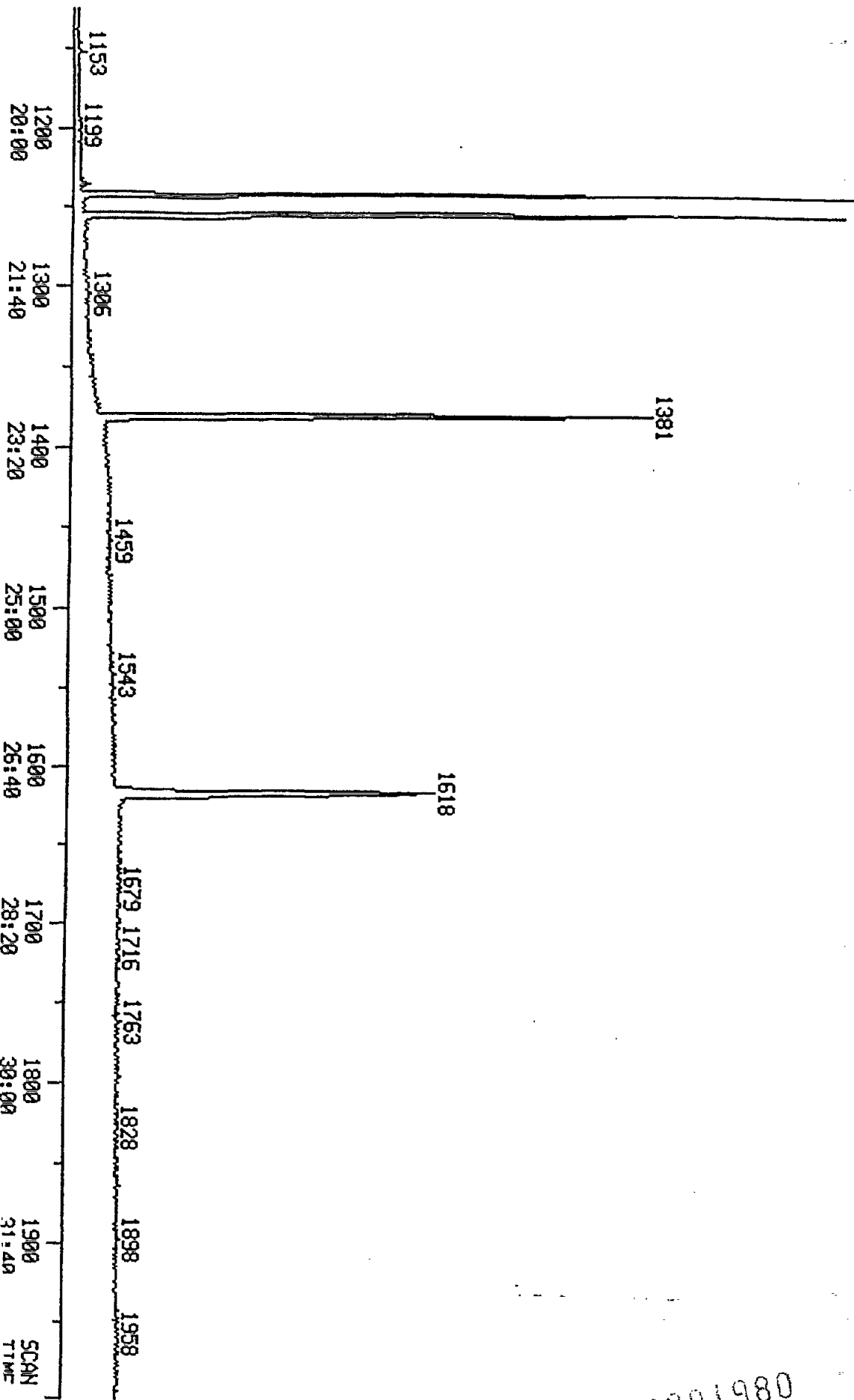
AR301979

822

RIC
08/08/90 5:32:00
SAMPLE: 9008L253-0015 STD CHLORINE
COND5.: INSTR 5100SP
RANGE: G 1,2000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080727 #1
CALI: 5080727 #2
SCANS 1125 TO 2000
OUT OF 250 TO 2000

100.0 1243 121472.



AR301980

Data: 5080727.T1

3/08/90 5:32:00

Sample: 9008L253-0015 STD CHLORINE

Sends.: INSTR 510OSP

Formula: 5080714

Submitted by: 080790

Instrument: 510OSP

Analyst: EWS

Weight: 0.006

Acct. No.: RFW

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

sp. fac. from Library Entry

No	Name	
1	C130 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
1	C365 4-METHYLPHENOL	
2	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
5	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
1	C415 ISOPHORONE	
1	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
1	C430 BENZOIC ACID	
1	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
1	C450 NAPHTHALENE	
20	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
1	C465 4-CHLORO-3-METHYLPHENOL	
1	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
1	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
1	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
1	C525 2-CHLORONAPHTHALENE	
35	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
1	C540 ACENAPHTHYLENE	
1	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
4	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
4	C570 2,4-DINITROTOLUENE	
4	C543 2,6-DINITROTOLUENE	
4	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301981

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 C525 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRt	Meth	Area(Hght)	Amount	%Tot
1	152	428	7:08	1	1.000	A BB	25948.	40.000 NG ✓	3.93
2	94	384	6:24	1	0.897	A BB	28899.	36.617 NG ✓	3.60
3	NOT FOUND								
4	128	405	6:45	1	0.946	A BB	62624.	77.786 NG ✓	7.65
5	146	430	7:10	1	1.005	A BB	27343.	30.015 NG ✓	2.95
6	146	430	7:10	1	1.005	A BB	27343.	28.143 NG ✓	2.77
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	70	484	8:04	1	1.131	A BB	17901.	34.711 NG ✓	3.41
13	NOT FOUND								
14	99	383	6:23	1	0.895	A BB	28230.	32.283 NG ✓	3.17
15	112	284	4:44	1	0.664	A BB	36327.	50.852 NG ✓	5.00
16	136	600	10:00	16	1.000	A BB	96412.	40.000 NG ✓	3.93
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	180	594	9:54	16	0.990	A BB	21495.	28.226 NG ✓	2.77
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	107	681	11:21	16	1.135	A BB	47853.	70.748 NG ✓	6.95
29	NOT FOUND								
30	82	503	8:23	16	0.838	A BB	28324.	27.414 NG ✓	2.69
31	164	861	14:21	31	1.000	A BB	59971.	40.000 NG ✓	3.93
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	153	866	14:26	31	1.006	A BB	57554.	32.973 NG ✓	3.24
41	NOT FOUND								
42	109	878	14:38	31	1.020	A BB	5899.	23.689 NG ✓	2.33
43	NOT FOUND								
44	165	894	14:54	31	1.038	A BB	19108.	33.526 NG ✓	3.30
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	172	760	12:40	31	0.883	A BB	59098.	26.960 NG ✓	2.65

AR301982

I ta: S080727.T1

C 08/90 5:32:00

Sample: 9008L253-001S STD CHLORINE

Instr.: INSTR 5100SP

Formula: S080714

Instrument: 5100SP

Weight: 0.006

Submitted by: 080790

Analyst: EWS

Acct. No.: RFW

A JUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

R sp. fac. from Library Entry

Name	
CS55 2,4,6-TRIBROMOPHENOL	SURROGATE STANDARD #5
52 CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
53 C610 4,6-DINITRO-2-METHYLPHENOL	
C615 N-NITROSODIPHENYLAMINE	
55 C625 4-BROMOPHENYL-PHENYLEETHER	
56 C630 HEXACHLORO BENZENE	
C635 PENTACHLOROPHENOL	
C640 PHENANTHRENE	
59 C645 ANTHRACENE	
60 C650 DI-N-BUTYLPHTHALATE	
C655 FLUORANTHENE	
62 CI70 CHRYSENE-D12	INTERNAL STANDARD #5
63 C715 PYRENE	
C720 BUTYLBENZYLPHTHALATE	
65 C725 3,3'-DICHLOROBENZIDINE	
66 C730 BENZO(A)ANTHRACENE	
C745 BIS(2-ETHYLHEXYL)PHTHALATE	
C740 CHRYSENE	
69 CS30 P-TERPHEYL-D14	SURROGATE STANDARD #6
70 CI75 PERYLENE-D12	INTERNAL STANDARD #6
C760 DI-N-OCTYLPHTHALATE	
72 C765 BENZO(B)FLUORANTHENE	
73 C770 BENZO(K)FLUORANTHENE	
C775 BENZO(A)PYRENE	
75 C780 INDENO(1,2,3-CD)PYRENE	
76 C785 DIBENZ(A,H)ANTHRACENE	
C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	980	16:20	31	1.138	A BB	14195.	66.497 NG ✓	6.54
	188	1080	18:00	52	1.000	A BV	80484.	40.000 NG ✓	3.93
53	NOT FOUND								
54	NOT FOUND								
	NOT FOUND								
	NOT FOUND								
57	266	1062	17:42	52	0.983	A BB	10324.	34.262 NG ✓	3.37
58	NOT FOUND								
	NOT FOUND								
60	149	1153	19:13	52	1.068	A BB	1452.	0.443 NG 71	0.04
61	NOT FOUND								
	240	1381	23:01	62	1.000	A BB	80266.	40.000 NG Y	3.93
63	202	1243	20:43	62	0.900	A BB	81797.	76.072 NG ✓	7.48
	NOT FOUND								
	NOT FOUND								
	NOT FOUND								

AR301983

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT	FOUND							
68	NOT	FOUND							
69	244	1256	20:56	62	0.909	A BB	56176.	66.277 NG✓	6.51
70	264	1618	26:58	70	1.000	A BB	49118.	40.000 NGx	3.93
71	NOT	FOUND							
72	NOT	FOUND							
73	NOT	FOUND							
74	NOT	FOUND							
75	NOT	FOUND							
76	NOT	FOUND							
77	NOT	FOUND							

BKR
8/8/90

Data: S080727.T1

07/08/90 5:32:00

Sample: 9008L253-001S STD CHLORINE

Sends.: INSTR 5100SP

Formula: S080714

Submitted by: 080790

Instrument: 5100SP

Analyst: EWS

Weight: 0.006

Acct. No.: RFW

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

Resp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	N-NITROSOMETHYLAMINE	
3	ANILINE	
4	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
5	1,3,5-TRICHLOROBENZENE	
6	1,2,3-TRICHLOROBENZENE	
7	M-CHLORONITROBENZENE	
8	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
9	26Z 1,2,4,5-TETRACHLOROBENZENE	
10	1,2,3,4-TETRACHLOROBENZENE	
11	PENTACHLOROBENZENE	
12	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
13	BENZIDINE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	428	7:08	1	1.000	A BB	25948.	40.000 NG ✓	25.01
2								NOT FOUND	
3								NOT FOUND	
4	136	600	10:00	4	1.000	A BB	96412.	40.000 NG ✓	25.01
5								NOT FOUND	
6								NOT FOUND	
7								NOT FOUND	
8	164	861	14:21	8	1.000	A BB	59971.	40.000 NG ✓	25.01
9								NOT FOUND	
10								NOT FOUND	
11								NOT FOUND	
12	188	1080	18:00	12	1.000	A BV	80484.	40.000 NG ✓	25.01
13								NOT FOUND	

AR301985

18
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

234

GW4-0-1 OR6AMSD

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 9008L253-001 MSD

Sample wt/vol: 990 (g/mL) ML

Lab File ID: S080728

Level: (low/med) LOW

Date Received: 08/01/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/08/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

108-95-2-----	Phenol		S
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol		S
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene		S
100-51-6-----	Benzyl alcohol	20	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	bis(2-Chloroisopropyl)ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-propylamine		S
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
65-85-0-----	Benzoic acid	50	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene		S
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	20	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol		S
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

S: SPIKE COMPOUND

FORM 1 SV-1

12/88 Rev.

AR301986

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

235

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

GW4-0-1 OR6AMSD

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 9008L253-001 MSD

Sample wt/vol: 990 (g/mL) ML

Lab File ID: S080728

Level: (low/med) LOW

Date Received: 08/01/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/08/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene		S
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol		S
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene		S
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol		S
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene		S
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-Octyl phthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine
S: SPIKE COMPOUND FORM 1 SV-2

.., 38 Rev.

AR301987

1D
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

GW4-0-1 OR6AMSD

236

Lab Name: Roy F. Weston, Inc. Work Order: 2267-09-02-0000

Client: STANDARD CHLORINE

Matrix: WATER

Lab Sample ID: 9008L253-001 MSD

Sample wt/vol: 990 (g/mL) ML

Lab File ID: S080728

Level: (low/med) LOW

Date Received: 08/01/90

% Moisture: not dec. dec.

Date Extracted: 08/03/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/08/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

62-53-3-----	Aniline	10	U
62-75-9-----	N-Nitrosodimethylamine	10	U
92-87-5-----	Benzidine	50	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U
108-70-3-----	1,3,5-Trichlorobenzene	10	U
95-94-3-----	1,2,4,5-Tetrachlorobenzene	10	U
634-66-2-----	1,2,3,4-Tetrachlorobenzene	10	U
608-93-5-----	Pentachlorobenzene	10	U
121-73-3-----	1-Chloro-3-nitrobenzene	10	U

S: SPIKE COMPOUND

FORM 1 SV-3

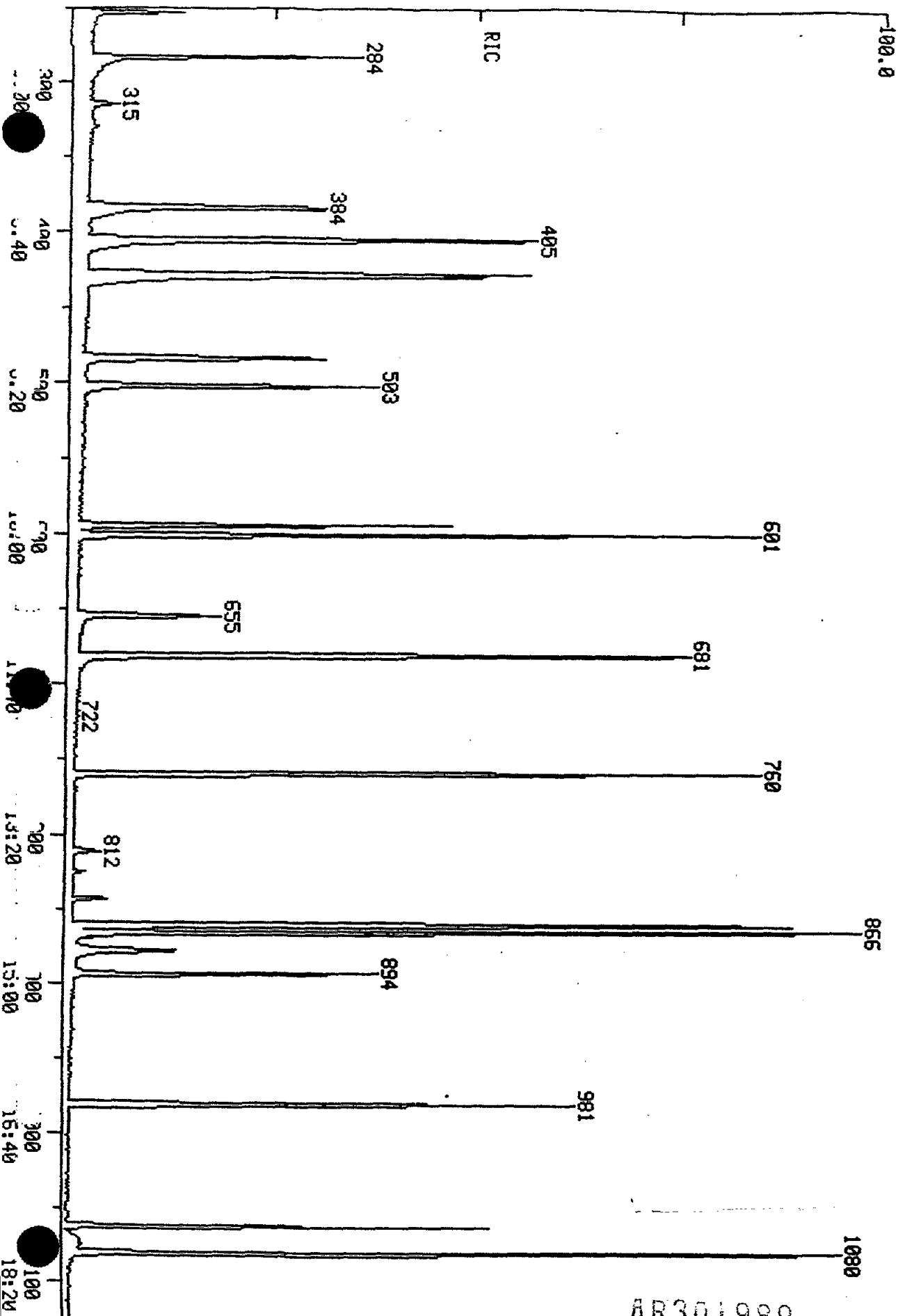
12/88 Rev.

AR301988

237

RIC
08/08/90 6:16:00
SAMPLE: 9008L253-001T STD CHLORINE
COND.S.: INSTR 51005P
RANGE: C 1,2000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080728 #1
CALL: 5080728 #2
SCANS 250 TO 1125
OUT OF 250 TO 2000



AR301989

30
32

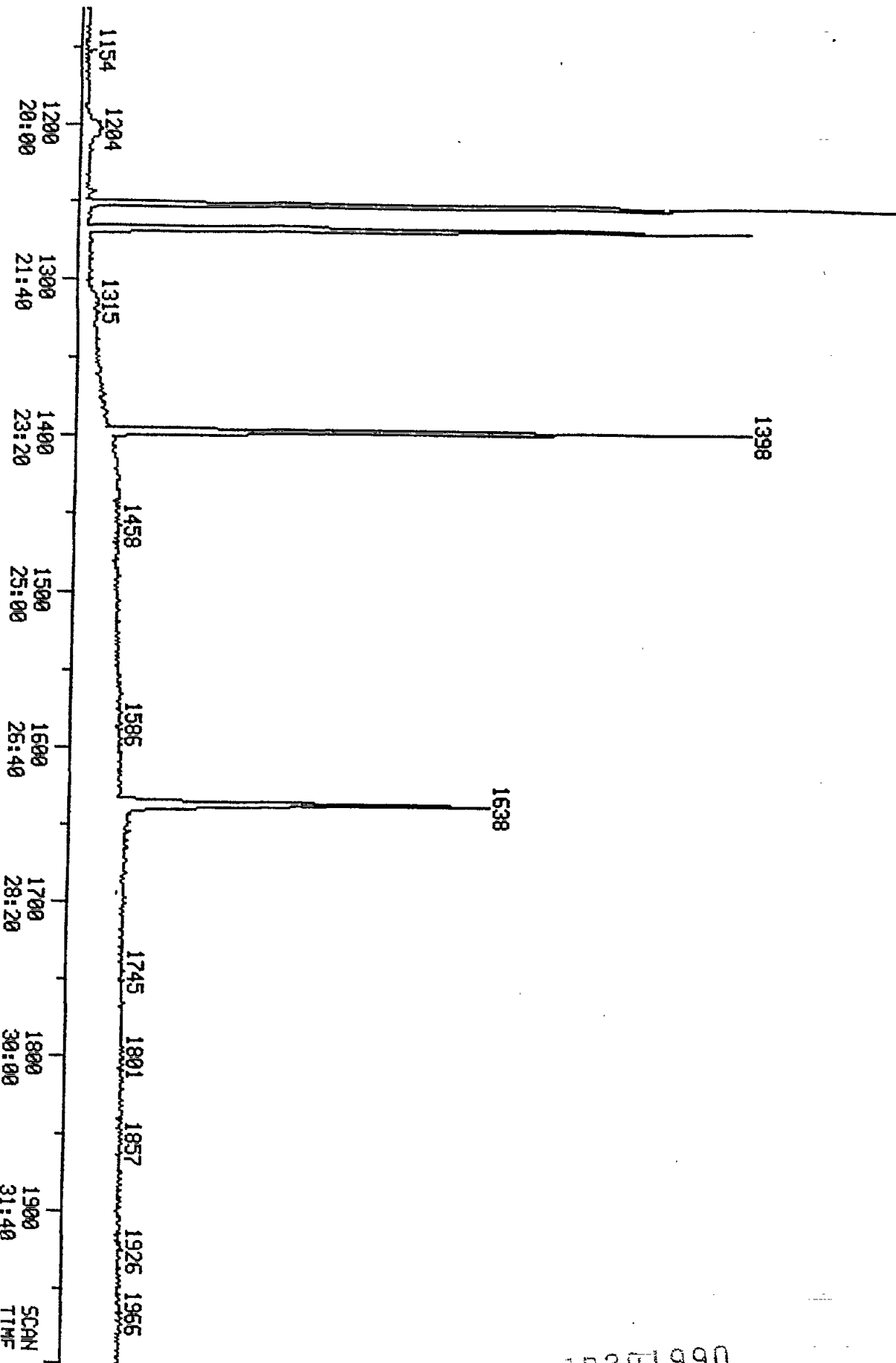
100.0

RIC
08/08/90 6:16:00
SAMPLE: 9008L253-001T STD CHLORINE
COND5.: INSTR 5100SP
RANGE: G 1,2000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5080728 #1
CALI: 5080728 #2
SCANS 1125 TO 2000
OUT OF 250 TO 2000

108288.

AR301990



Data: 5080728.TI

7/08/90 6:16:00

Sample: 9008L253-001T STD CHLORINE

Sends.: INSTR 5100SP

Formula: 5080714

Instrument: 5100SP

Weight: 0.006

Submitted by: 080790

Analyst: EWS

Acct. No.: RFW

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

f sp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	C315 PHENOL	
3	C325 BIS(2-CHLOROETHYL)ETHER	
4	C330 2-CHLOROPHENOL	
5	C335 1,3-DICHLOROBENZENE	
6	C340 1,4-DICHLOROBENZENE	
7	C345 BENZYL ALCOHOL	
8	C350 1,2-DICHLOROBENZENE	
9	C355 2-METHYLPHENOL	
10	C360 BIS(2-CHLOROISOPROPYL)ETHER	
11	C365 4-METHYLPHENOL	
12	C370 N-NITROSO-DI-N-PROPYLAMINE	
13	C375 HEXACHLOROETHANE	
14	CS45 PHENOL-D5	SURROGATE STANDARD #2
15	CS50 2-FLUOROPHENOL	SURROGATE STANDARD #1
16	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
17	C410 NITROBENZENE	
18	C415 ISOPHORONE	
19	C420 2-NITROPHENOL	
20	C425 2,4-DIMETHYLPHENOL	
21	C430 BENZOIC ACID	
22	C435 BIS(2-CHLOROETHOXY)METHANE	
23	C440 2,4-DICHLOROPHENOL	
24	C445 1,2,4-TRICHLOROBENZENE	
25	C450 NAPHTHALENE	
26	C455 4-CHLOROANILINE	
27	C460 HEXACHLOROBUTADIENE	
28	C465 4-CHLORO-3-METHYLPHENOL	
29	C470 2-METHYLNAPHTHALENE	
30	CS20 NITROBENZENE-D5	SURROGATE STANDARD #3
31	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
32	C510 HEXACHLOROCYCLOPENTADIENE	
33	C515 2,4,6-TRICHLOROPHENOL	
34	C520 2,4,5-TRICHLOROPHENOL	
35	C525 2-CHLORONAPHTHALENE	
36	C530 2-NITROANILINE	
37	C535 DIMETHYLPHTHALATE	
38	C540 ACENAPHTHYLENE	
39	C545 3-NITROANILINE	
40	C550 ACENAPHTHENE	
41	C555 2,4-DINITROPHENOL	
42	C560 4-NITROPHENOL	
43	C565 DIBENZOFURAN	
44	C570 2,4-DINITROTOLUENE	
45	C543 2,6-DINITROTOLUENE	
46	C580 DIETHYLPHTHALATE	
47	C585 4-CHLOROPHENYL-PHENYLETHER	

AR301991

No Name
 48 C590 FLUORENE
 49 C595 4-NITROANILINE
 50 CS25 2-FLUOROBIPHENYL

SURROGATE STANDARD #4

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	428	7:08	1	1.000	A BB	24899.	40.000 NG ✓	4.03
2	94	385	6:25	1	0.900	A BB	24376.	32.188 NG ✓	3.24
3	NOT FOUND								
4	128	405	6:45	1	0.946	A BB	52592.	68.077 NG ✓	6.85
5	146	430	7:10	1	1.005	A BB	28331.	32.410 NG ✓	3.26
6	146	430	7:10	1	1.005	A BB	28331.	30.389 NG ✓	3.06
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	70	485	8:05	1	1.133	A BB	17091.	34.537 NG ✓	3.48
13	NOT FOUND								
14	99	383	6:23	1	0.895	A BB	22600.	26.934 NG ✓	2.71
15	112	284	4:44	1	0.664	A BB	29552.	43.111 NG ✓	4.34
16	136	601	10:01	16	1.000	A BB	92495.	40.000 NG ✓	4.03
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	180	595	9:55	16	0.990	A BB	22150.	30.318 NG ✓	3.05
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	107	681	11:21	16	1.133	A BB	44086.	67.939 NG ✓	6.84
29	NOT FOUND								
30	82	503	8:23	16	0.837	A BB	27248.	27.490 NG ✓	2.77
31	164	862	14:22	31	1.000	A BB	57921.	40.000 NG ✓	4.03
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	153	866	14:26	31	1.005	A BB	57835.	34.307 NG ✓	3.45
41	NOT FOUND								
42	109	878	14:38	31	1.019	A BB	4981.	20.710 NG ✓	2.09
43	NOT FOUND								
44	165	894	14:54	31	1.037	A BB	19429.	35.296 NG ✓	3.55
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	172	760	12:40	31	0.882	A BB	59279.	27.999 NG ✓	2.82

AR301992

Data: S080728.TI

3/08/90 6:16:00

Sample: 9008L253-001T STD CHLORINE

Standard: INSTR 5100SP

Formula: S080714

Submitted by: 080790

Instrument: 5100SP

Analyst: EWS

Weight: 0.006

Acct. No.: RFW

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

sp. fac. from Library Entry

No Name

1 CS55 2,4,6-TRIBROMOPHENOL
 2 CI60 PHENANTHRENE-D10
 53 C610 4,6-DINITRO-2-METHYLPHENOL
 54 C615 N-NITROSODIPHENYLAMINE
 5 C625 4-BROMOPHENYL-PHENYLETHER
 56 C630 HEXACHLOROBENZENE
 57 C635 PENTACHLOROPHENOL
 8 C640 PHENANTHRENE
 59 C645 ANTHRACENE
 60 C650 DI-N-BUTYLPHTHALATE
 1 C655 FLUDRANTHENE
 2 CI70 CHRYSENE-D12
 63 C715 PYRENE
 44 C720 BUTYLBENZYLPHTHALATE
 5 C725 3,3'-DICHLOROBENZIDINE
 56 C730 BENZO(A)ANTHRACENE
 67 C745 BIS(2-ETHYLHEXYL)PHTHALATE
 3 C740 CHRYSENE
 CS30 P-TERPHENYL-D14
 70 CI75 PERYLENE-D12
 71 C760 DI-N-OCTYLPHTHALATE
 2 C765 BENZO(B)FLUORANTHENE
 73 C770 BENZO(K)FLUORANTHENE
 74 C775 BENZO(A)PYRENE
 5 C780 INDENO(1,2,3-CD)PYRENE
 76 C785 DIBENZ(A,H)ANTHRACENE
 77 C790 BENZO(G,H,I)PERYLENE

SURROGATE STANDARD #5

INTERNAL STANDARD #4

INTERNAL STANDARD #5

SURROGATE STANDARD #6

INTERNAL STANDARD #6

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	330	981	16:21	31	1.138	A BB	12053.	58.461 NG ✓	5.89
57	188	1080	18:00	52	1.000	A BV	86016.	40.000 NG ✓	4.03
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	266	1062	17:42	52	0.983	A BB	11255.	34.949 NG ✓	3.52
58	NOT FOUND								
59	NOT FOUND								
60	149	1154	19:14	52	1.069	A BB	1409.	0.402 NG 71	0.04
61	NOT FOUND								
62	240	1398	23:18	62	1.000	A BB	47336.	40.000 NG X	4.03
63	202	1253	20:53	62	0.896	A BB	80059.	79.064 NG ✓	7.96
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								

AR301993

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT	FOUND							
68	NOT	FOUND							
69	244	1269	21:09	62	0.908	A BB	54814.	68.673 NG✓	6.91
70	264	1638	27:18	70	1.000	A BB	47088.	40.000 NGX	4.03
71	NOT	FOUND							
72	NOT	FOUND							
73	NOT	FOUND							
74	NOT	FOUND							
75	NOT	FOUND							
76	NOT	FOUND							
77	NOT	FOUND							

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BKR
8/8/90

AR301994

Data: S080728.T1

3/08/90 6:16:00

Sample: 900BL253-001T STD CHLORINE

Conds.: INSTR 5100SP

Formula: S080714

Submitted by: 080790

Instrument: 5100SP

Analyst: EWS

Weight: 0.006

Acct. No.: RFW

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

sp. fac. from Library Entry

No	Name	
1	CI30 1,4-DICHLOROBENZENE-D4	INTERNAL STANDARD #1
2	N-NITROSOMETHYLAMINE	
3	ANILINE	
4	CI40 NAPHTHALENE-D8	INTERNAL STANDARD #2
5	1,3,5-TRICHLOROBENZENE	
6	1,2,3-TRICHLOROBENZENE	
7	M-CHLORONITROBENZENE	
8	CI50 ACENAPHTHENE-D10	INTERNAL STANDARD #3
9	26Z 1,2,4,5-TETRACHLOROBENZENE	
10	1,2,3,4-TETRACHLOROBENZENE	
1	PENTACHLOROBENZENE	
2	CI60 PHENANTHRENE-D10	INTERNAL STANDARD #4
13	BENZIDINE	

0	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	✓	%Tot
1	152	428	7:08	1	1.000	A BB	24899.	40.000 NG	✓	25.01
2	NOT FOUND									
3	NOT FOUND									
4	136	601	10:01	4	1.000	A BB	92495.	40.000 NG	✓	25.01
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	164	862	14:22	8	1.000	A BB	57921.	40.000 NG	✓	25.01
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	188	1080	18:00	12	1.000	A BV	86016.	40.000 NG	✓	25.01
13	NOT FOUND									

AR301995

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END OF DATA PACKAGE

AR301996

Roy F. Weston, Inc. - Lionville Laboratory
PEST/PCB ANALYTICAL DATA PACKAGE FOR
STANDARD CHLORINE

DATE RECEIVED: 08/01/90

RFW LOT # :9008L253

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
GW4-0-1 OR6A	001	W	90LE0802	08/01/90	08/03/90	08/08/90
GW4-0-1 OR6A	001 MS	W	90LE0802	08/01/90	08/03/90	08/08/90
GW4-0-1 OR6A	001 MSD	W	90LE0802	08/01/90	08/03/90	08/09/90
GW4-0-3 OR6A (FB)	003	W	90LE0802	08/01/90	08/03/90	08/09/90

LAB QC:

PBLK	MB1	W	90LE0802	N/A	08/03/90	08/08/90
PBLK	MB1 BS	W	90LE0802	N/A	08/03/90	08/08/90
PBLK	MB1 BSD	W	90LE0802	N/A	08/03/90	08/08/90

AR301997

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2. Raw Data:	
a. 2250/2401 Column	
b. SP2100 Column	
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1. Tabulated Results (Form I)	
2. Raw Data	
a. 2250/2401 Column	
b. SP2100 Column	
C. Matrix Spike Duplicate Data	
1. Tabulated Results (Form I)	
2. Raw Data	
a. 2250/2401 Column	
b. SP2100 Column	

AR301998

TRAFFIC REPORTS

AR301999

