158965

SAMPLING DATA

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	TOT OUT
01	Q201	65	70	95	5
02	Q202	45	65	84	5
03	Q203	52	54	80	5
04	Q206	60	73	78	5
05	Q207	52	71	85	5
06	Q208	85 D	109 D	133 D	0
07	Q208DL	85 D	109 D	159 D	0
08	SLCSS1	84	96	80	4
09	SBLKS1	102	127 *	94	6

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix Spike - EPA Sample No.: SLCSS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	6670	0	5215	78	26- 90
2-Chlorophenol	6670	0	5814	87	25-102
1,4-Dichlorobenzene	3330	0	2849	85	28-104
N-Nitroso-di-n-prop.(1)	3330	0	3732	112	41-126
1,2,4-Trichlorobenzene	3330	0	3032	91	38-107
4-Chloro-3-methylphenol	6670	0	5198	78	26-103
Acenaphthene	3330	0	2999	90	31-137
4-Nitrophenol	6670	0	5931	89	11-114
2,4-Dinitrotoluene	3330	0	2582	78	28- 89
Pentachlorophenol	6670	0	4532	68	17-109
Pyrene	3330	0	2666	80	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III SV-2 OLM03.1

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKS1

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID: B3148 Lab Sample ID: SBLKS1

Instrument ID: 7002B Date Extracted: 04/28/97

Matrix: (soil/water) SOIL Date Analyzed: 04/30/97

Level:(low/med) LOW Time Analyzed: 1229

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	Q201	65106	B3174	05/01/97
02	Q202	65107	B3164	05/01/97
03	Q203	65108	B3165	05/01/97
04	Q206	65111	B3177	05/01/97
05	Q207	65112	B3178	05/01/97
06	Q208	65113	B3180	05/01/97
07	Q208DL	65113DL	B3179	05/01/97
08	SLCSS1	SLCSS1	B3142	04/30/97

COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID: B3040 DFTPP Injection Date: 04/22/97

Instrument ID: 70020B DFTPP Injection Time: 1415

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.2
68	Less than 2.0% of mass 69	0.6 (1.1)1
69	Mass 69 relative abundance	58.1
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	43.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	25.2
365	Greater than 1.00% of mass 198	2.08
441	Present, but less than mass 443	12.1
442	40.0 - 110.0% of mass 198	79.6
443	17.0 - 23.0% of mass 442	15.5 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	B3041	04/22/97	1438
02	SSTD020	SSTD020	B3042	04/22/97	1557
03	SSTD080	SSTD080	B3043	04/22/97	1656
04	SSTD100	SSTD100	B3044	04/22/97	1755
05	SSTD120	SSTD120	B3045	04/22/97	1854
06	SSTD160	SSTD160	B3046	04/22/97	1953

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID: B3133 DFTPP Injection Date: 04/29/97

Instrument ID: 7002B DFTPP Injection Time: 2010

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.0
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	44.6
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.00% of mass 198	1.96
441	Present, but less than mass 443	11.7
442	40.0 - 110.0% of mass 198	71.8
443	17.0 - 23.0% of mass 442	14.1 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	B3134	04/29/97	2030
02	SLCSS1	SLCSS1	B3142	04/30/97	0437

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID: B3146 DFTPP Injection Date: 04/30/97

Instrument ID: 7002B DFTPP Injection Time: 1055

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	56.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.6
197	Less than 1.0% of mass 198	0.5
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 1.00% of mass 198	1.71
441	Present, but less than mass 443	11.4
442	40.0 - 110.0% of mass 198	74.2
443	17.0 - 23.0% of mass 442	14.4 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	B3147	04/30/97	1115
02	SBLKS1	SBLKS1	B3148	04/30/97	1229

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID: B3158 DFTPP Injection Date: 04/30/97

Instrument ID: 7002B DFTPP Injection Time: 2330

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	56.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.5
197	Less than 1.0% of mass 198	0.2
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	26.1
365	Greater than 1.00% of mass 198	1.96
441	Present, but less than mass 443	12.2
442	40.0 - 110.0% of mass 198	76.0
443	17.0 - 23.0% of mass 442	14.6 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	B3159	04/30/97	2349
02	Q202	65107	B3164	05/01/97	0446
03	Q203	65108	B3165	05/01/97	0545

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID: B3172 DFTPP Injection Date: 05/01/97

Instrument ID: 7002B DFTPP Injection Time: 1506

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	23.6
365	Greater than 1.00% of mass 198	1.79
441	Present, but less than mass 443	10.9
442	40.0 - 110.0% of mass 198	71.0
443	17.0 - 23.0% of mass 442	13.3 (18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	B3173	05/01/97	1526
02	Q201	65106	B3174	05/01/97	1642
03	Q206	65111	B3177	05/01/97	1939
04	Q207	65112	B3178	05/01/97	2038
05	Q208	65113	B3180	05/01/97	2247

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID (Standard): B3134 Date Analyzed: 04/29/97

Instrument ID: 7002B Time Analyzed: 2030

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	147537	11.49	492326	15.55	274422	21.33
	UPPER LIMIT	295074	11.99	984652	16.05	548844	21.83
	LOWER LIMIT	73768	10.99	246163	15.05	137211	20.83
	EPA SAMPLE NO.						
01	SLCSS1	105566	11.57	375962	15.56	219525	21.33

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

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID (Standard): B3134 Date Analyzed: 04/29/97

Instrument ID: 7002B Time Analyzed: 2030

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	395778	26.12	181502	34.75	158779	40.21
	UPPER LIMIT	791556	26.62	363004	35.25	317558	40.71
	LOWER LIMIT	197889	25.62	90751	34.25	79390	39.71
	EPA SAMPLE NO.						
01	SLCSS1	307907	26.12	146709	34.73	122080	40.18

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

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID (Standard): B3147 Date Analyzed: 04/30/97

Instrument ID: 7002B Time Analyzed: 1115

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	93739	11.49	279154	15.54	146862	21.31
	UPPER LIMIT	187478	11.99	558308	16.04	293724	21.81
	LOWER LIMIT	46870	10.99	139577	15.04	73431	20.81
	EPA SAMPLE NO.						
08	SBLKS1	75838	11.49	226227	15.53	117156	21.31

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

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID (Standard): B3147 Date Analyzed: 04/30/97

Instrument ID: 7002B Time Analyzed: 1115

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	217689	26.10	128935	34.73	117121	40.17
UPPER LIMIT	435378	26.60	257870	35.23	234242	40.67
LOWER LIMIT	108844	25.60	64468	34.23	58560	39.67
EPA SAMPLE NO.						
08 SBLKS1	172480	26.11	92787	34.72	84707	40.15

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

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID (Standard): B3159 Date Analyzed: 04/30/97

Instrument ID: 7002B Time Analyzed: 2349

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	117841	11.49	313131	15.55	143816	21.32
	UPPER LIMIT	235682	11.99	626262	16.05	287632	21.82
	LOWER LIMIT	58920	10.99	156566	15.05	71908	20.82
	EPA SAMPLE NO.						
01	Q202	94477	11.52	308742	15.57	175219	21.35
02	Q203	95325	11.54	305711	15.57	169761	21.36

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

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID (Standard): B3159 Date Analyzed: 04/30/97

Instrument ID: 7002B Time Analyzed: 2349

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	174287	26.11	85489	34.71	81084	40.14
	UPPER LIMIT	348574	26.61	170978	35.21	162168	40.64
	LOWER LIMIT	87144	25.61	42744	34.21	40542	39.64
	EPA SAMPLE NO.						
01	Q202	243397	26.16	77345	34.80	42453	40.27
02	Q203	222885	26.15	72969	34.77	48764	40.27

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

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID (Standard): B3173 Date Analyzed: 05/01/97

Instrument ID: 7002B Time Analyzed: 1526

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	88686	11.51	216827	15.57	95135	21.33
	UPPER LIMIT	177372	12.01	433654	16.07	190270	21.83
	LOWER LIMIT	44343	11.01	108414	15.07	47568	20.83
	EPA SAMPLE NO.						
01	Q201	87022	11.53	222707	15.57	103623	21.34
02	Q206	102473	11.51	333213	15.54	174434	21.32
03	Q207	95279	11.51	310535	15.53	164726	21.33
04	Q208	96898	11.47	282369	15.51	150487	21.29
05	Q208DL	92631	11.47	301807	15.52	168509	21.31

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

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Lab File ID (Standard): B3173 Date Analyzed: 05/01/97

Instrument ID: 7002B Time Analyzed: 1526

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	127556	26.13	66168	34.75	48030	40.21
	UPPER LIMIT	255112	26.63	132336	35.25	96060	40.71
	LOWER LIMIT	63778	25.63	33084	34.25	24015	39.71
	EPA SAMPLE NO.						
01	Q201	130483	26.13	48435	34.73	36549	40.20
01	Q206	237957	26.12	84587	34.74	63781	40.22
02	Q207	219726	26.11	65795	34.73	32949	40.19
03	Q208	143214	26.10	19566 *	34.71	12610 *	40.18
04	Q208DL	199051	26.11	36919	34.71	16861 *	40.20

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

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q201

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: 65106

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3174

Level: (low/med) LOW Date Received: 04/22/97

% Moisture: 30 decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/97

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	470	U
91-57-6	2-Methylnaphthalene	470	U
91-58-7	2-Chloronaphthalene	470	U
208-96-8	Acenaphthylene	470	U
83-32-9	Acenaphthene	470	U
86-73-7	Fluorene	470	U
85-01-8	Phenanthrene	110	J
120-12-7	Anthracene	470	U
206-44-0	Fluoranthene	250	J
129-00-0	Pyrene	230	J
56-55-3	Benzo(a)Anthracene	200	J
218-01-9	Chrysene	240	J
205-99-2	Benzo(b)Fluoranthene	340	J
207-08-9	Benzo(k)Fluoranthene	180	J
50-32-8	Benzo(a)Pyrene	170	J
193-39-5	Indeno(1,2,3-cd)Pyrene	100	J
53-70-3	Dibenz(a,h)Anthracene	470	U
191-24-2	Benzo(g,h,i)Perylene	120	J

Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

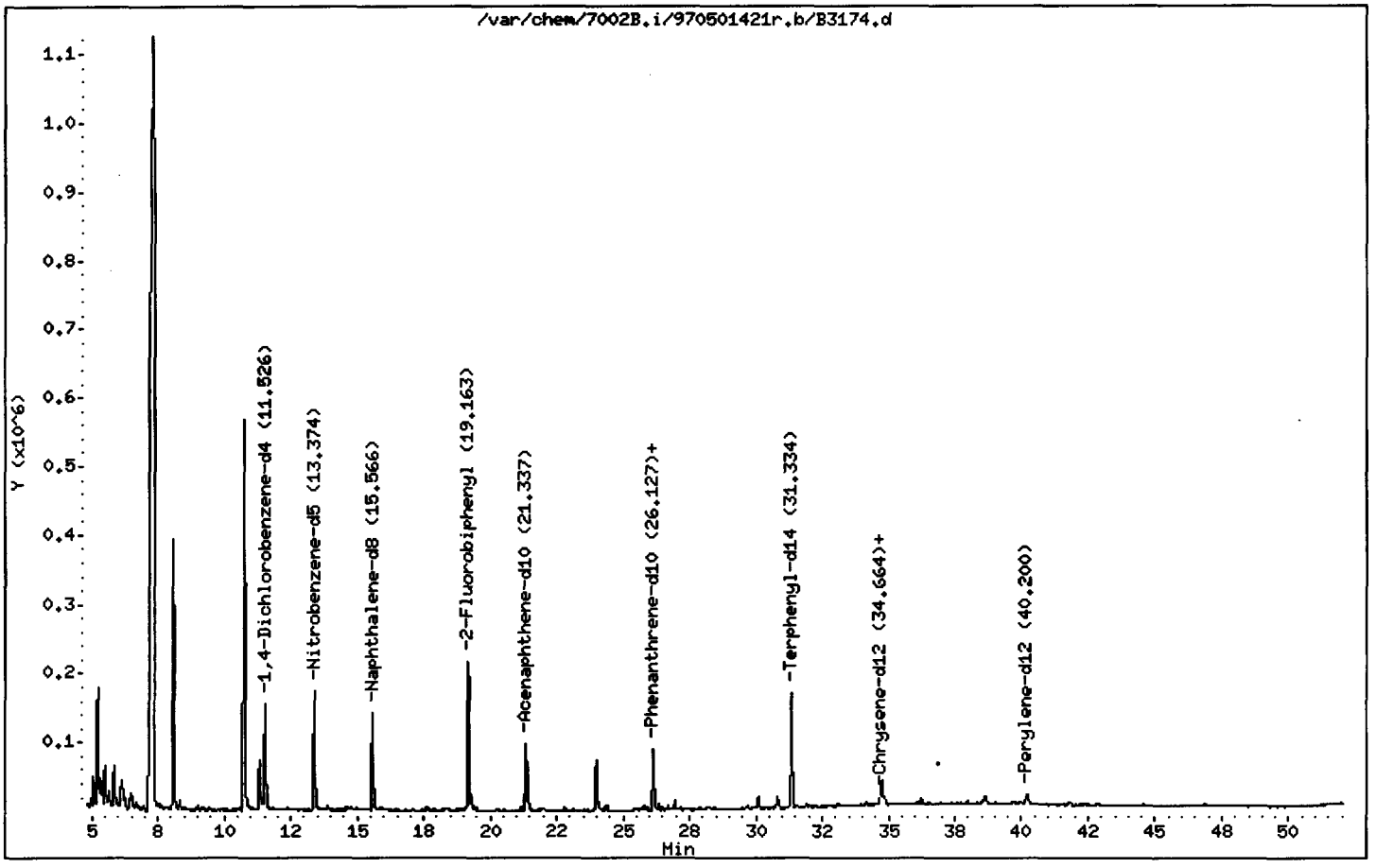
Sample Info: RA 9700.860 65106.01

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970501421r.b/B3174.d
Lab Smp Id:
Inj Date : 01-MAY-97 16:42:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : RA 9700.860 65106.01
Misc Info : [970501421R]{COBX71}970428480P,SBN_0A,DCE,4300 Q201 BTL#
Comment :
Method : /var/chem/7002B.i/970501421r.b/cobx71.m
Meth Date : 05-May-97 15:56:17 mscanlon Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 11 1,4-Dichlorobenzene-d4	152	11.526	11.505	(1.000)	87022	40.0	
$ 21 Nitrobenzene-d5	82	13.374	13.373	(0.859)	185665	65.0	1080
* 30 Naphthalene-d8	136	15.566	15.568	(1.000)	222707	40.0	
$ 39 2-Fluorobiphenyl	172	19.163	19.169	(0.898)	279903	69.9	1160
* 45 Acenaphthene-d10	164	21.337	21.329	(1.000)	103623	40.0	
* 62 Phenanthrene-d10	188	26.127	26.124	(1.000)	130483	40.0	
63 Phenanthrene	178	26.193	26.206	(1.003)	17045	4.54	75.7(a)
67 Fluoranthene	202	30.072	30.080	(1.151)	29695	10.3	171(a)
69 Pyrene	202	30.809	30.815	(0.887)	26607	9.71	162(a)
$ 70 Terphenyl-d14	244	31.334	31.339	(0.902)	207587	95.3	1590
72 Benzo(a)anthracene	228	34.664	34.675	(0.998)	14039	8.49	142(a)
* 74 Chrysene-d12	240	34.731	34.741	(1.000)	48435	40.0	
75 Chrysene	228	34.813	34.824	(1.002)	15407	9.98	166(a)
78 Benzo(b)fluoranthene	252	38.558	38.576	(0.959)	9297	14.3	238(aM)
79 Benzo(k)fluoranthene	252	38.591	38.641	(0.960)	10628	7.75	129(aM)

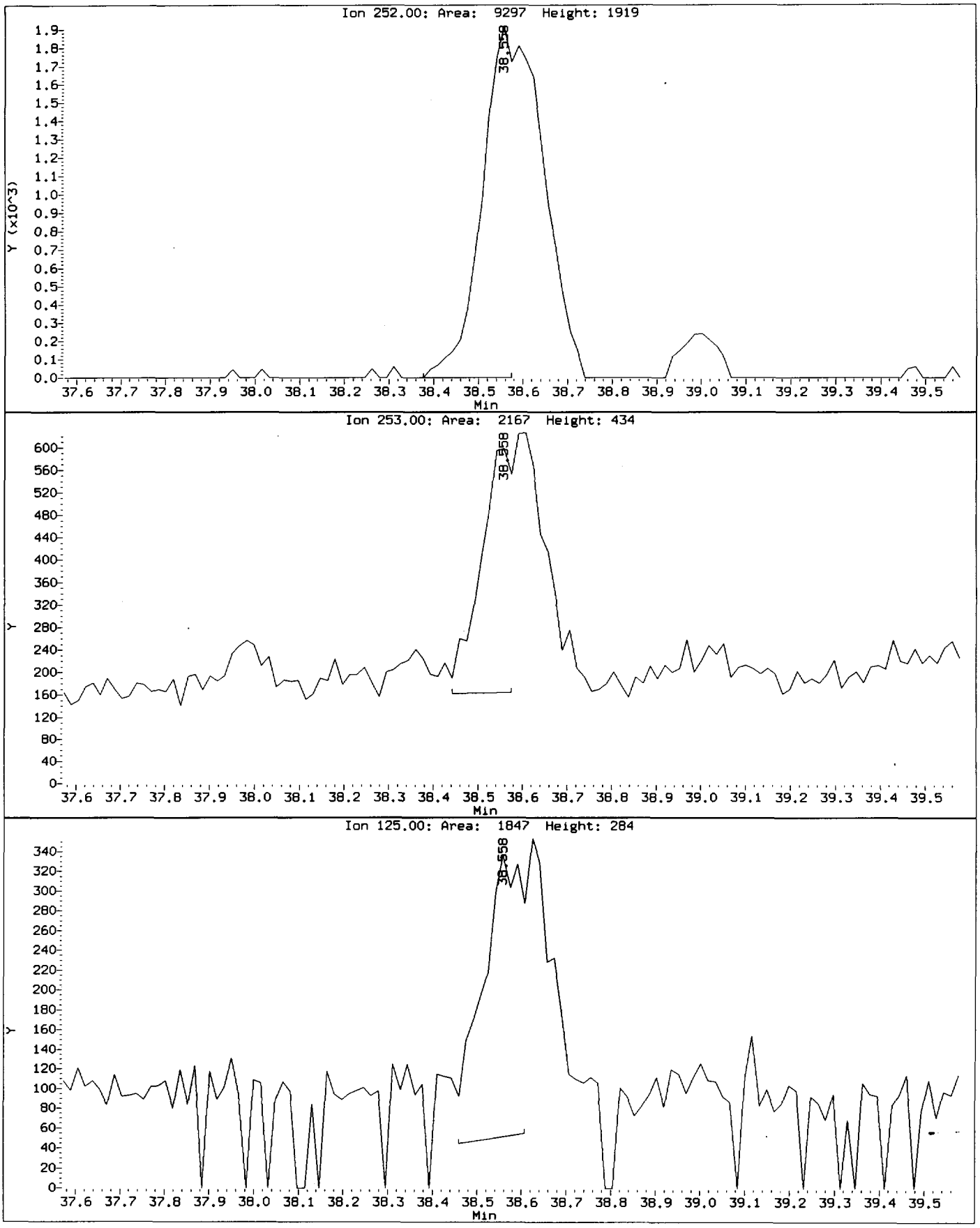
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
80 Benzo(a)pyrene	252	39.921	39.936	(0.993)	6706	6.97	116(a)
* 81 Perylene-d12	264	40.200	40.199	(1.000)	36549	40.0	
82 Indeno(1,2,3-cd)pyrene	276	46.024	46.081	(1.145)	4558	4.28	71.3(a)
84 Benzo(g,h,i)perylene	276	47.828	47.835	(1.190)	4539	5.24	87.4(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

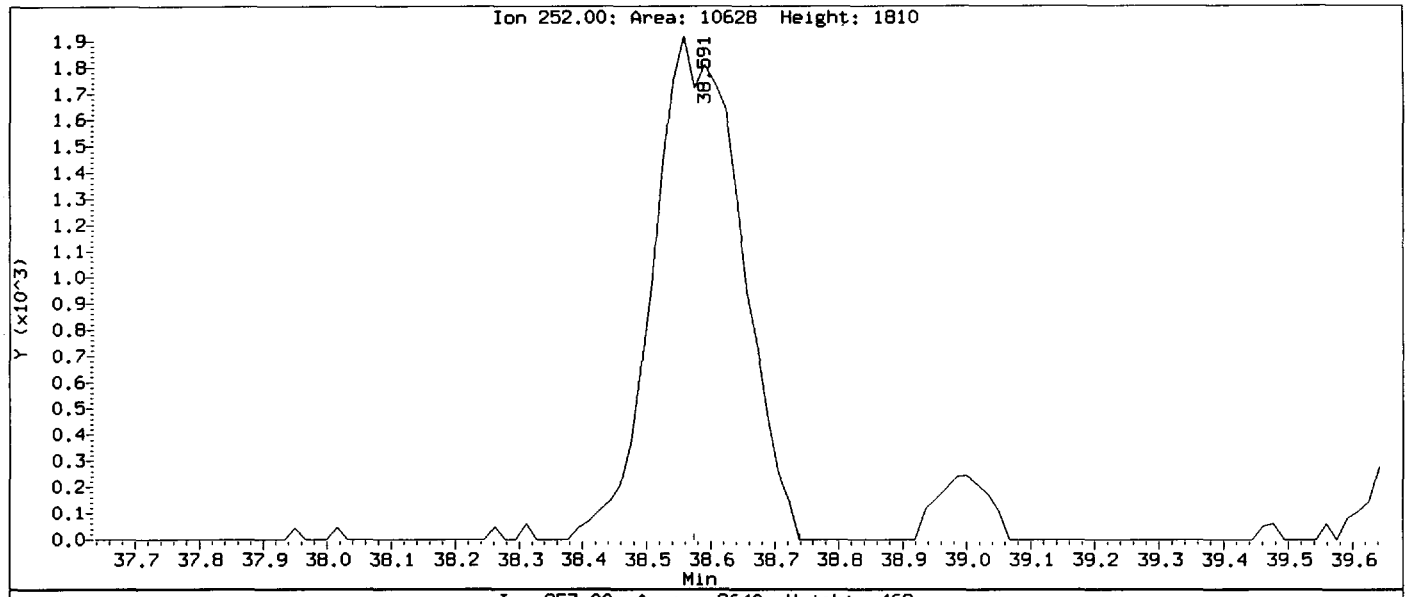
Data File: /var/chem/7002B.i/970501421r.b/B3174.d
Injection Date: 01-MAY-97 16:42:00
Instrument: 7002B.i
Client Sample ID:

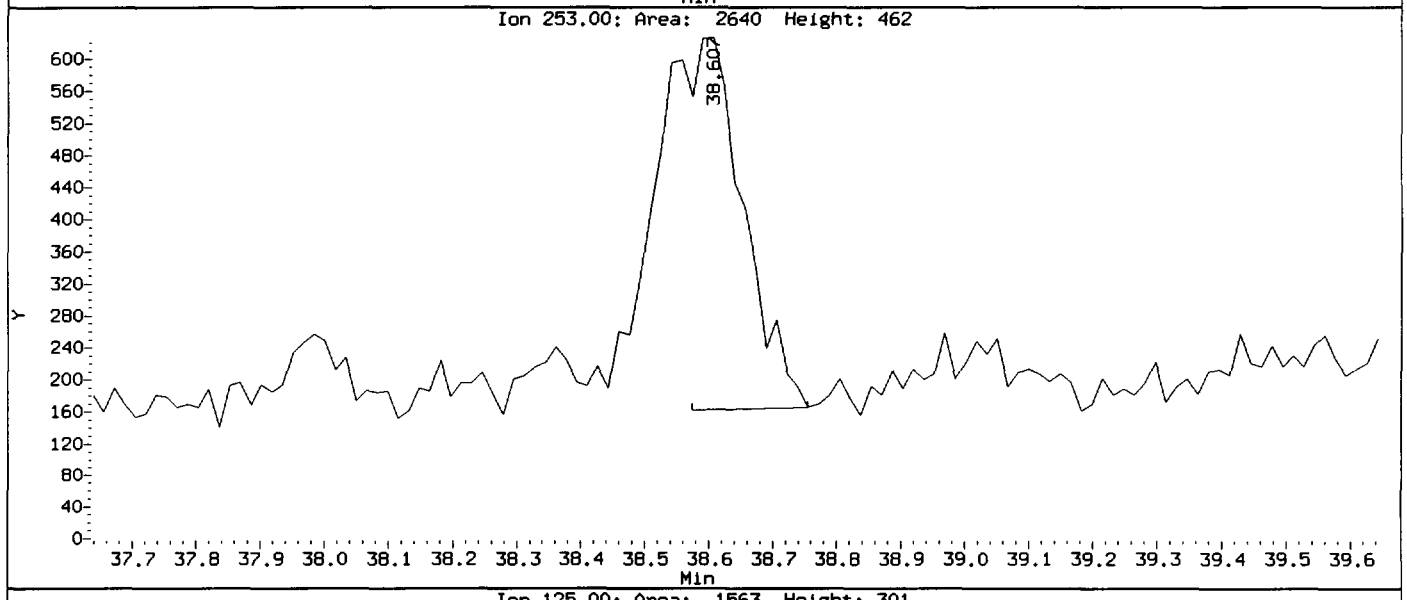
Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2

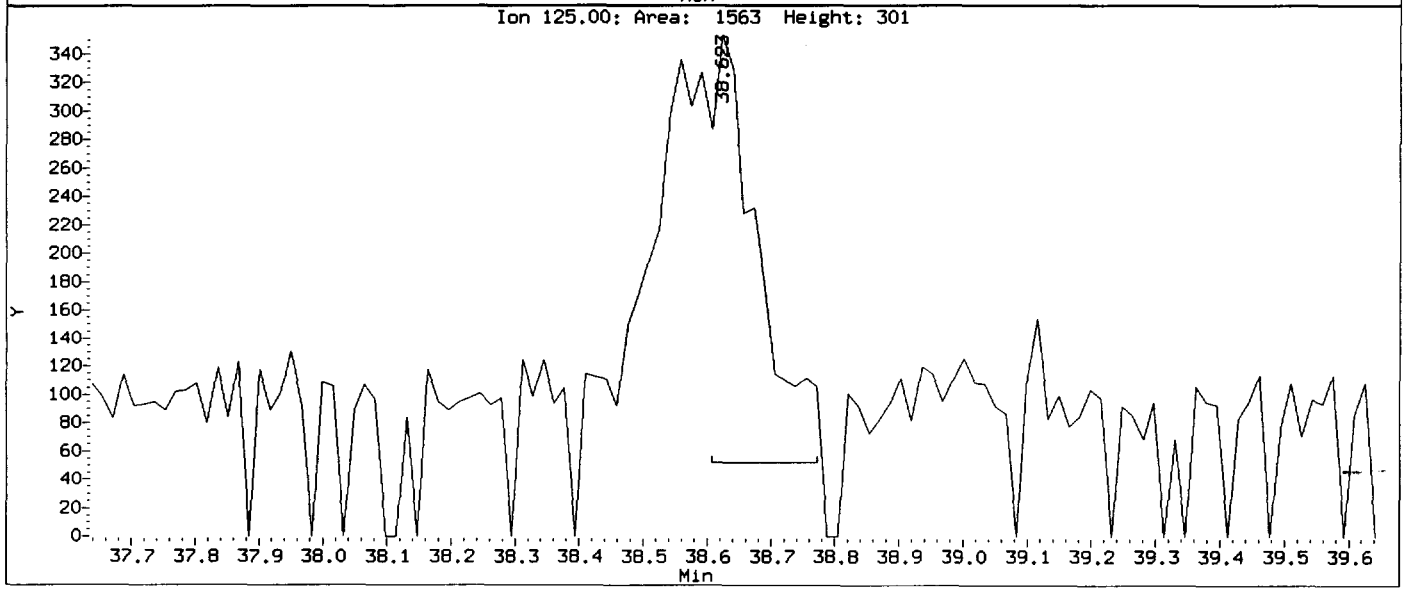


Data File: /var/chem/7002B.i/970501421r.b/B3174.d
Injection Date: 01-MAY-97 16:42:00
Instrument: 7002B.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9







Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

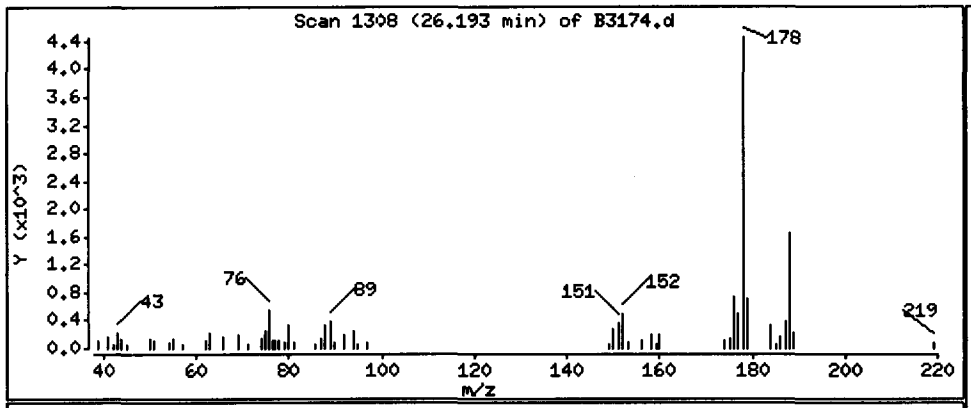
Volume Injected (uL): 2.0

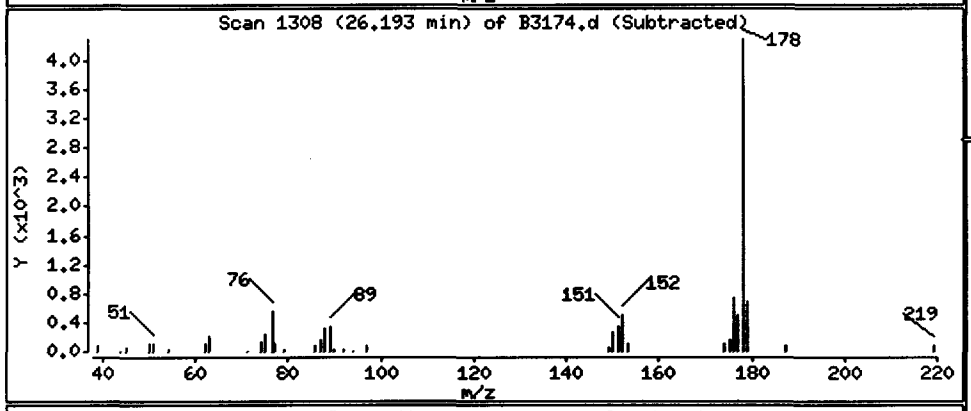
Operator: USER2 REG. GRP.

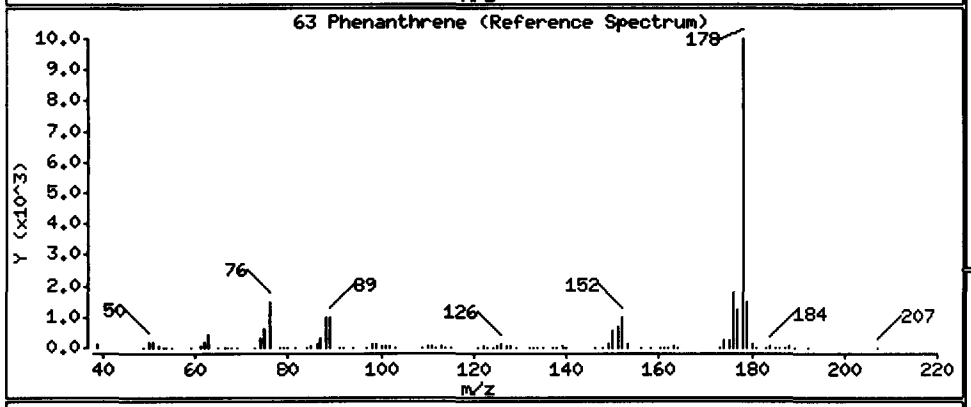
Column phase:

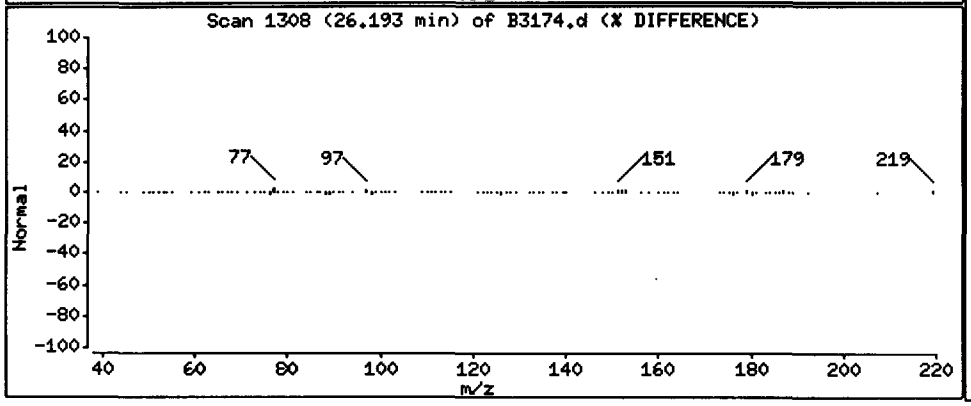
Column diameter: 0.25

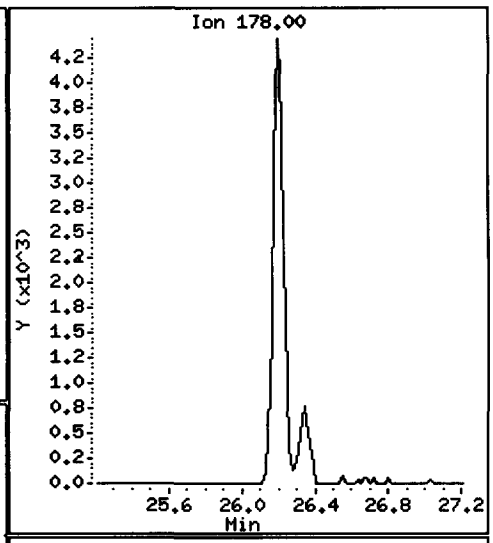
63 Phenanthrene

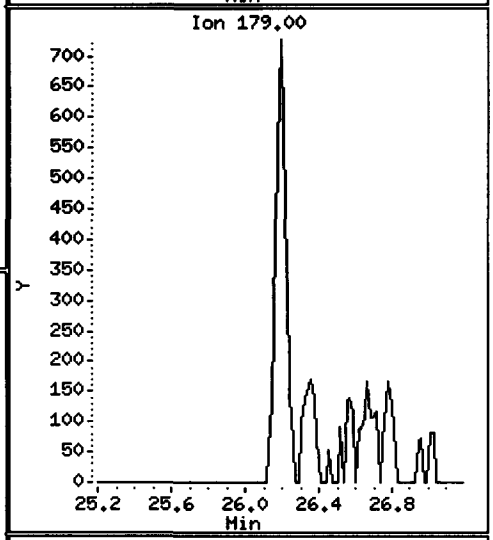


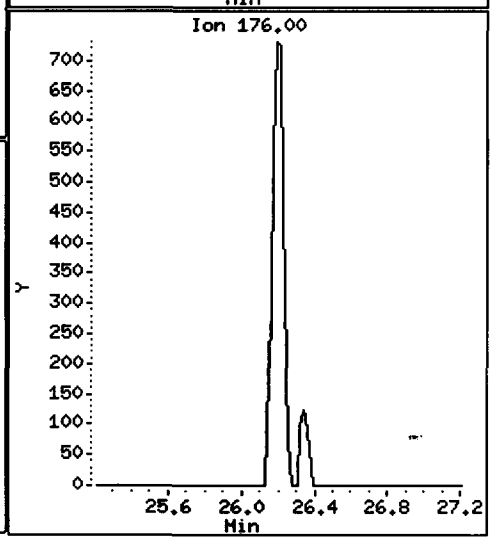












Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

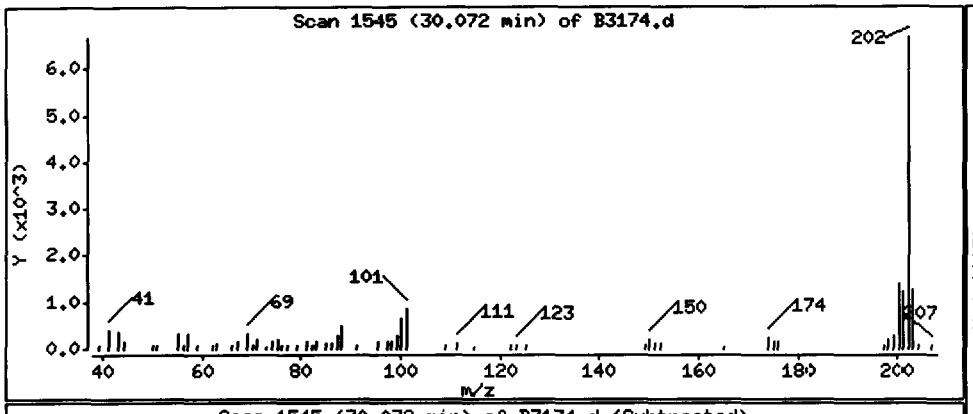
Volume Injected (uL): 2.0

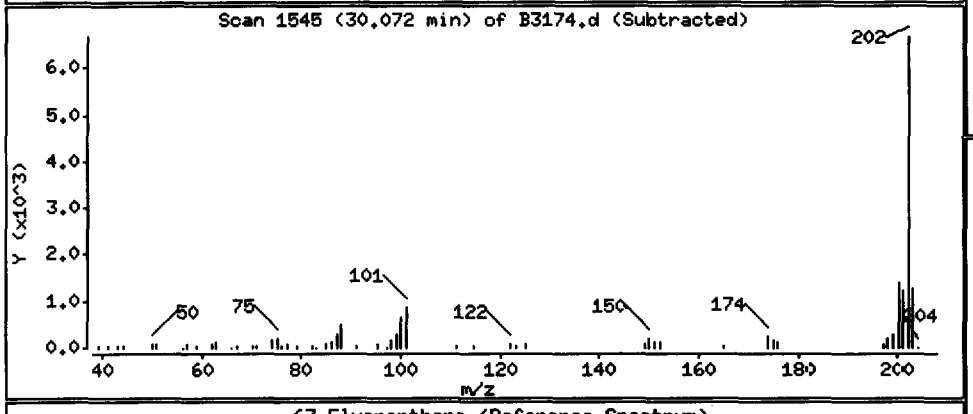
Operator: USER2 REG. GRP.

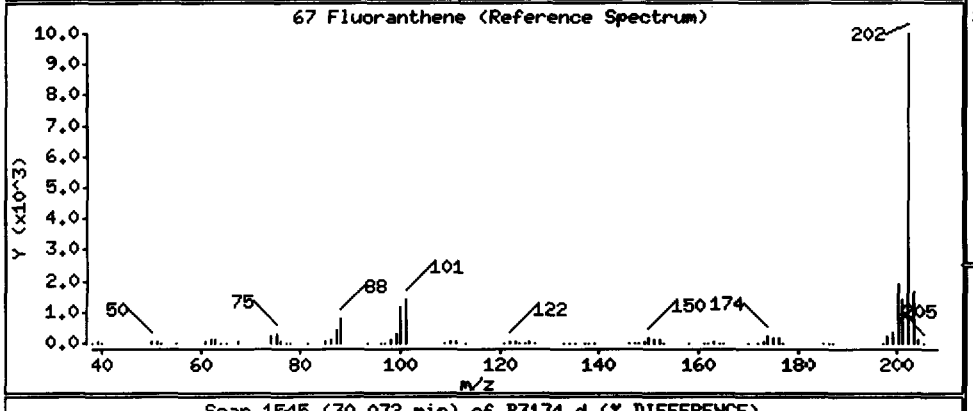
Column phase:

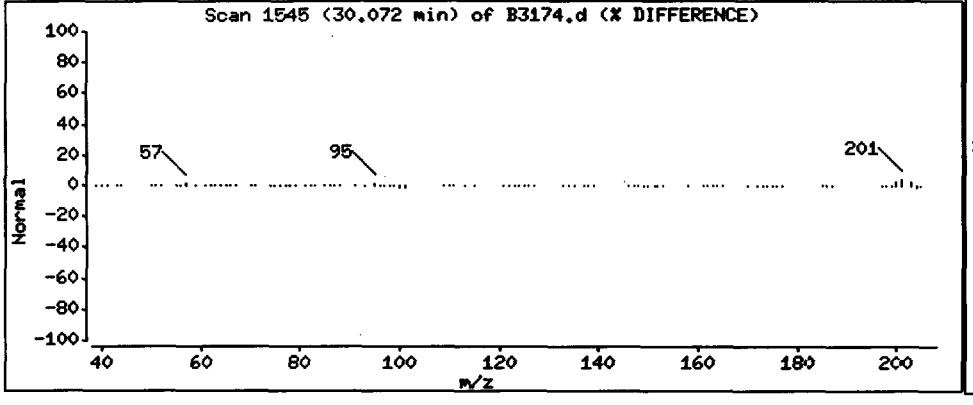
Column diameter: 0.25

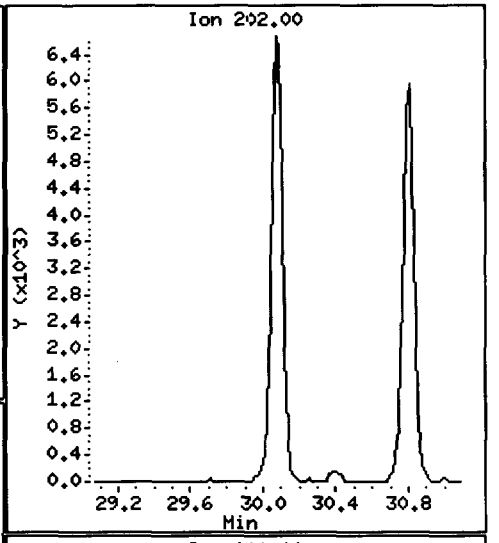
67 Fluoranthene

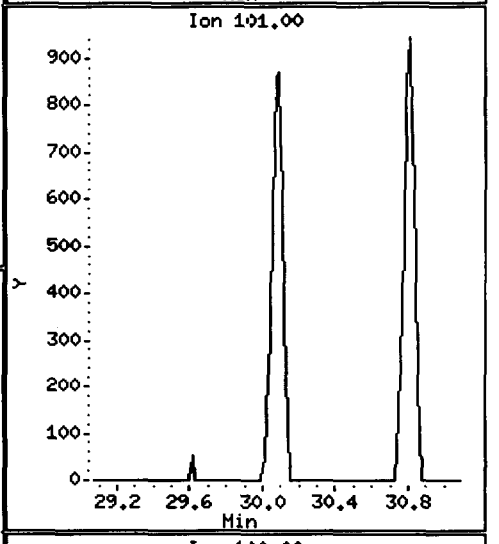


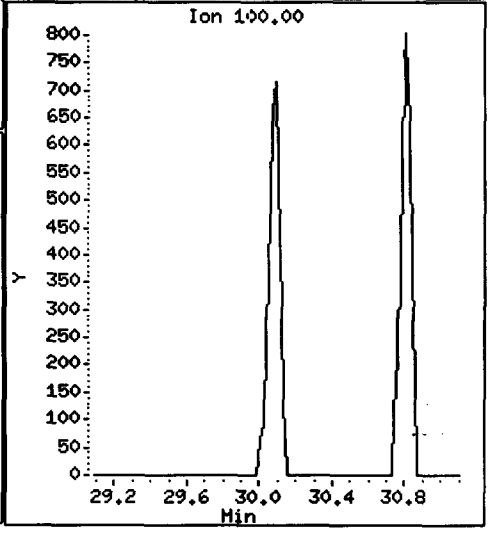












Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

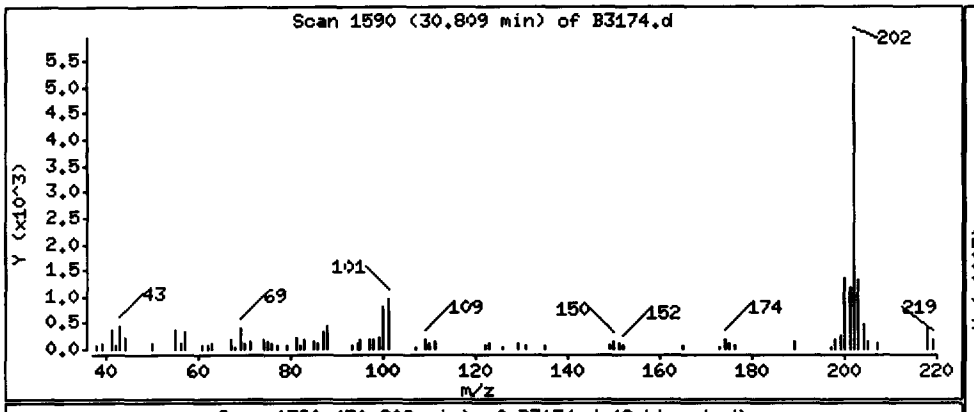
Volume Injected (uL): 2.0

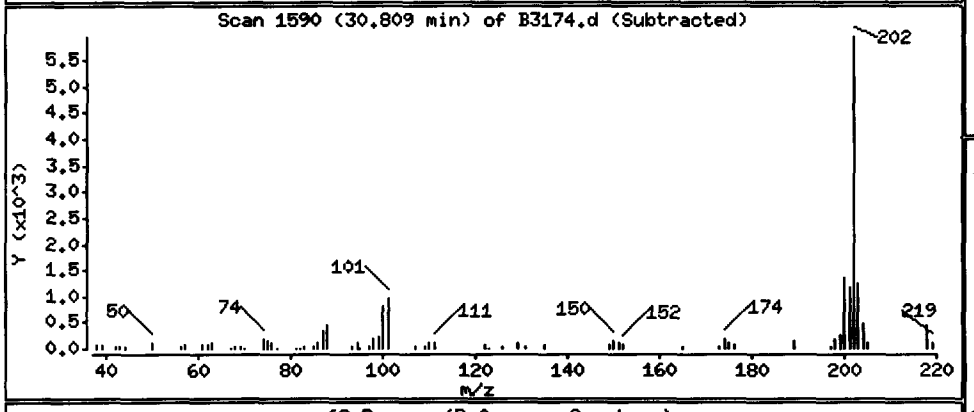
Operator: USER2 REG. GRP.

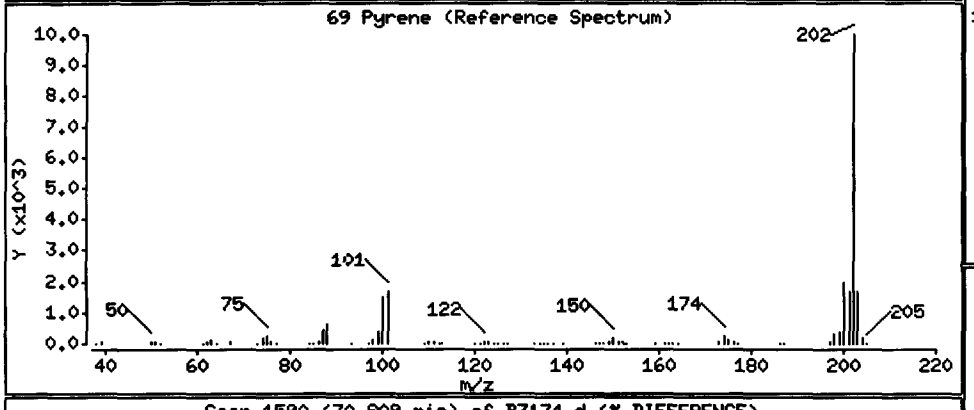
Column phase:

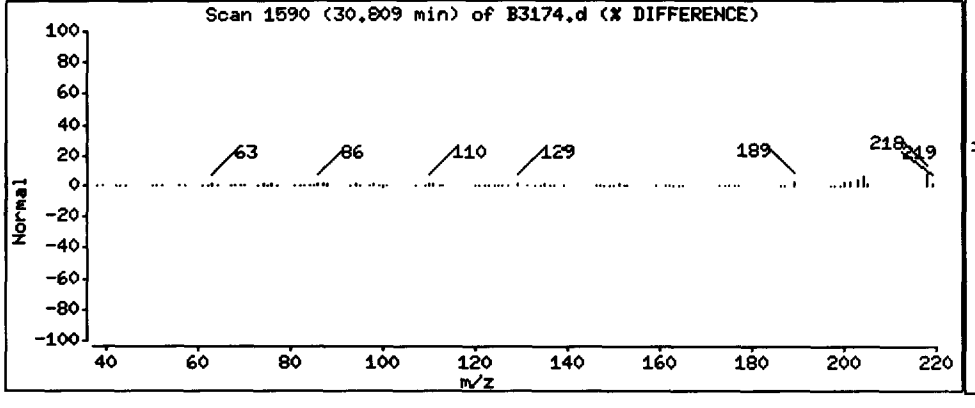
Column diameter: 0.25

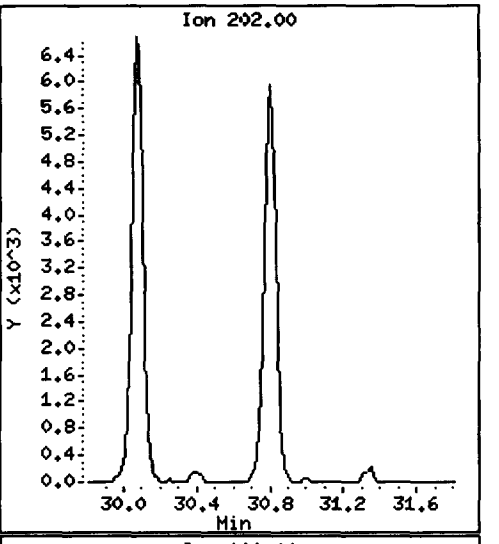
69 Pyrene

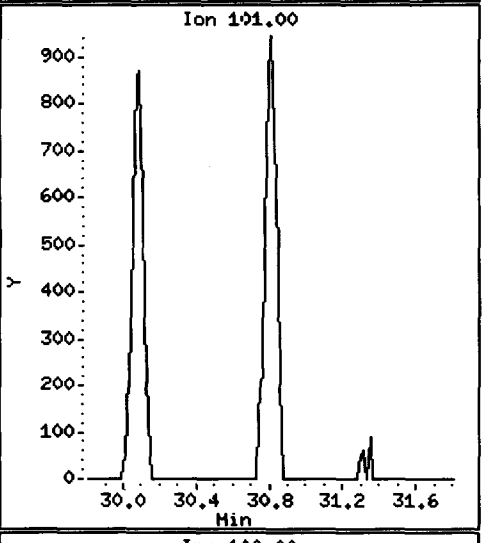


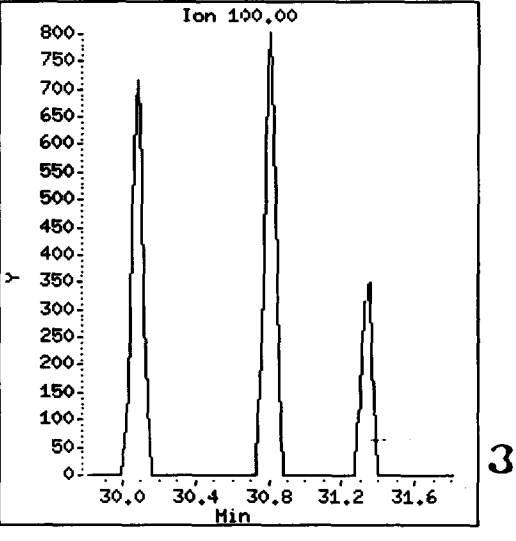












Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

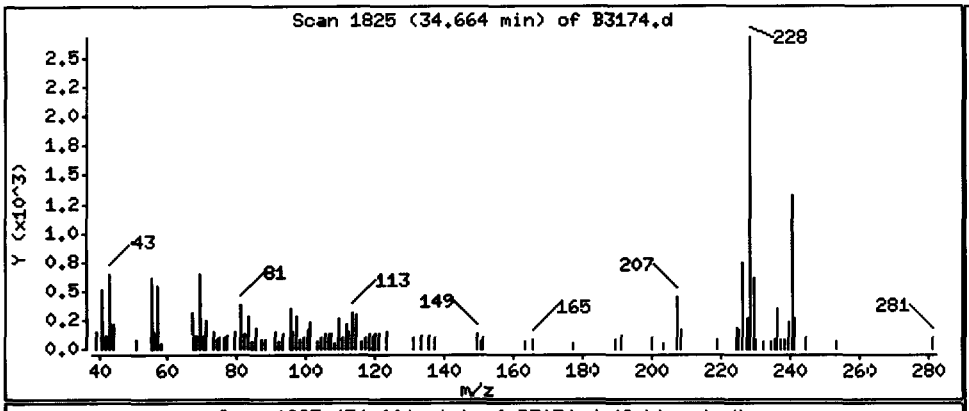
Volume Injected (uL): 2.0

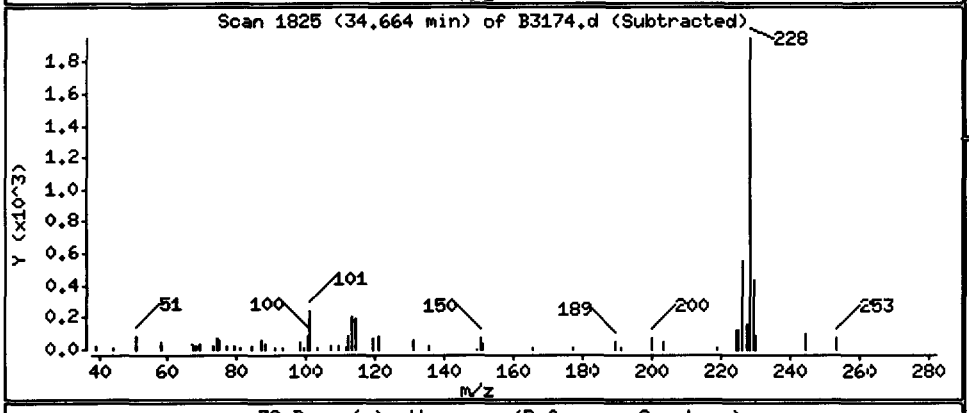
Operator: USER2 REG. GRP.

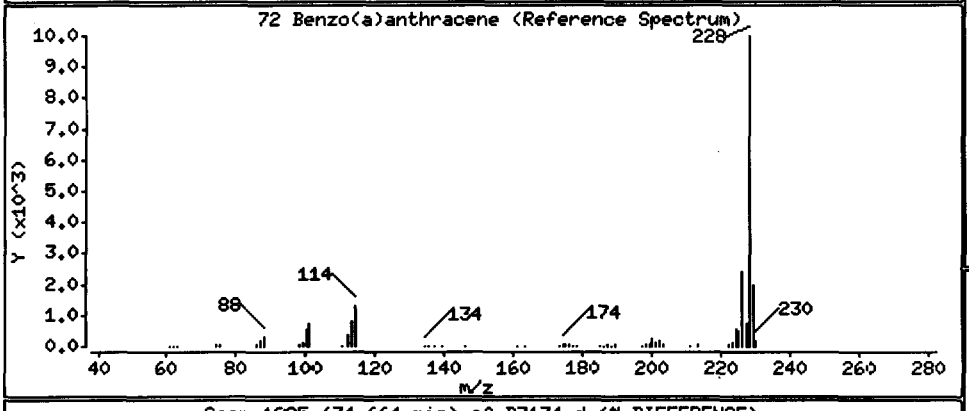
Column phase:

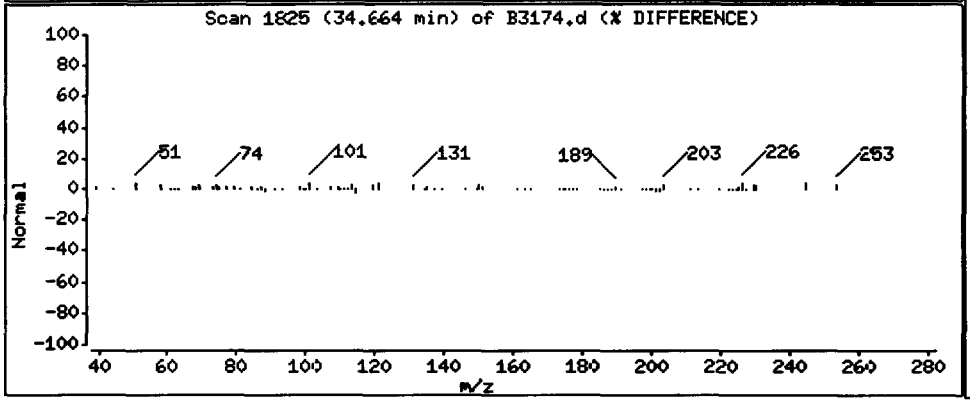
Column diameter: 0.25

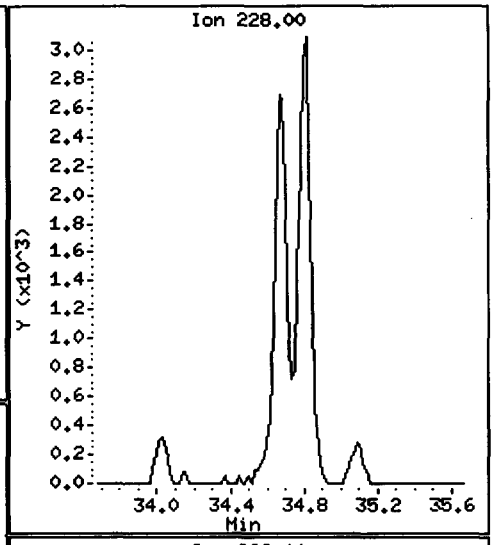
72 Benzo(a)anthracene

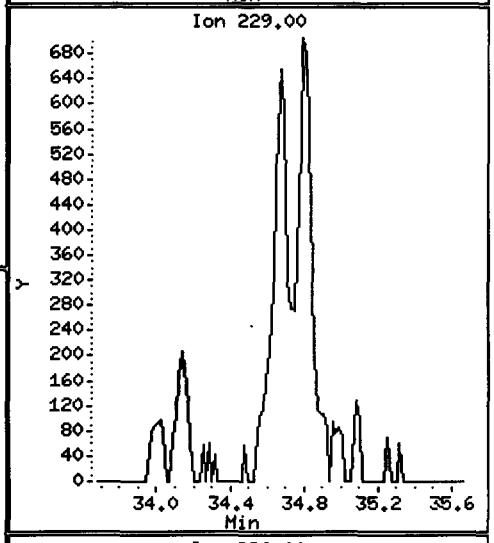


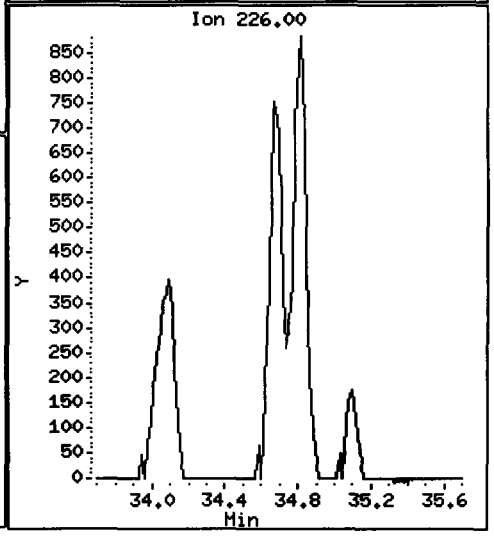












Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

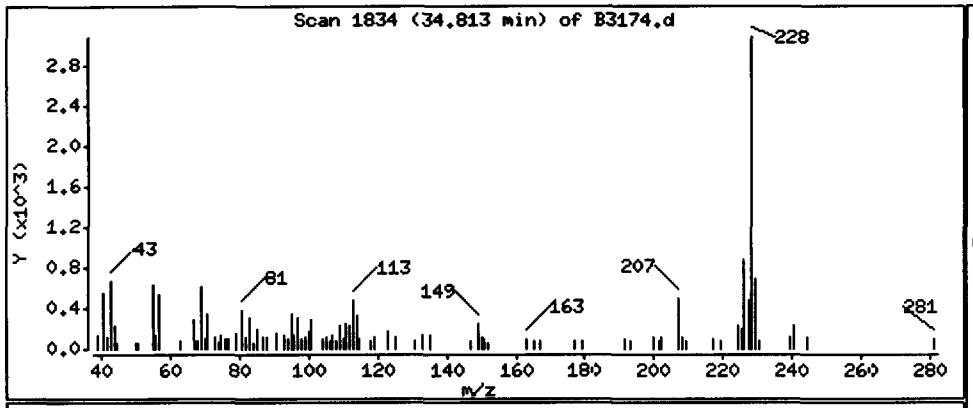
Volume Injected (uL): 2.0

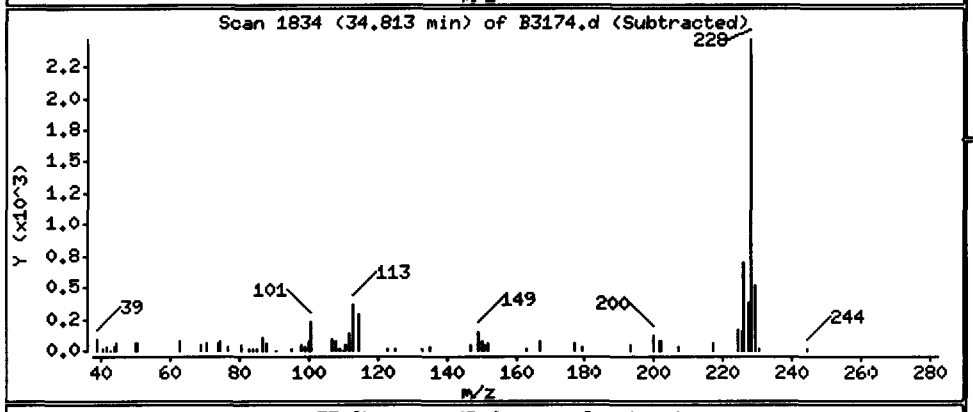
Operator: USER2 REG. GRP.

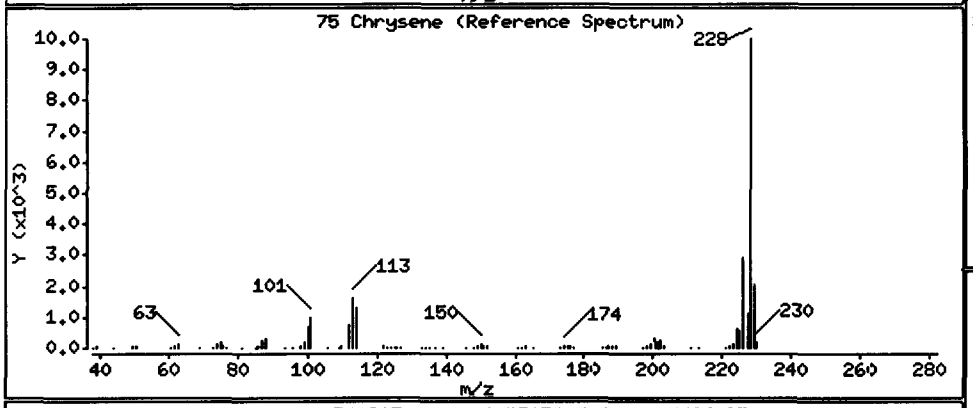
Column phase:

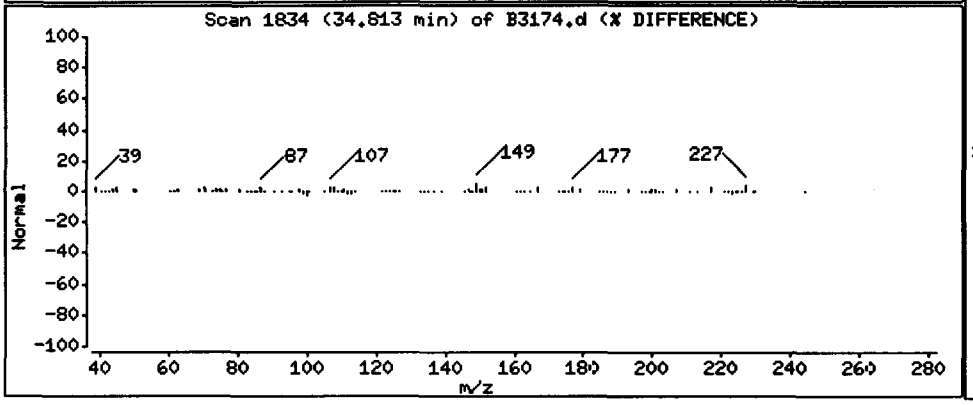
Column diameter: 0.25

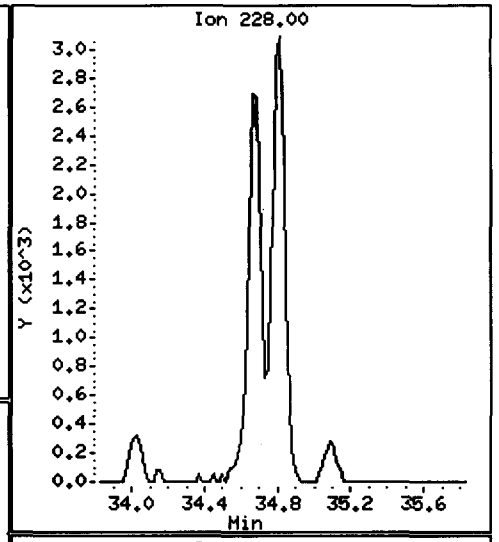
75 Chrysene

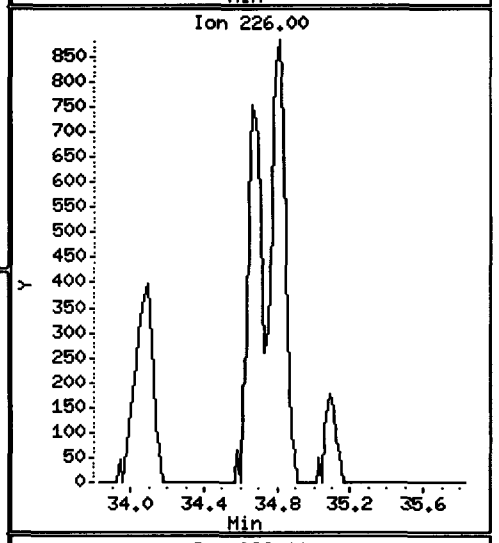


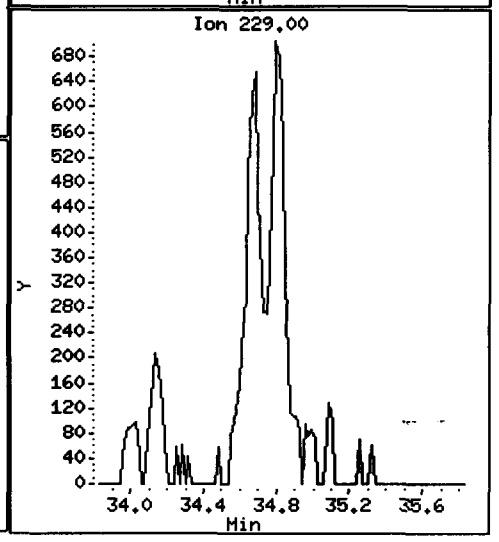












Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

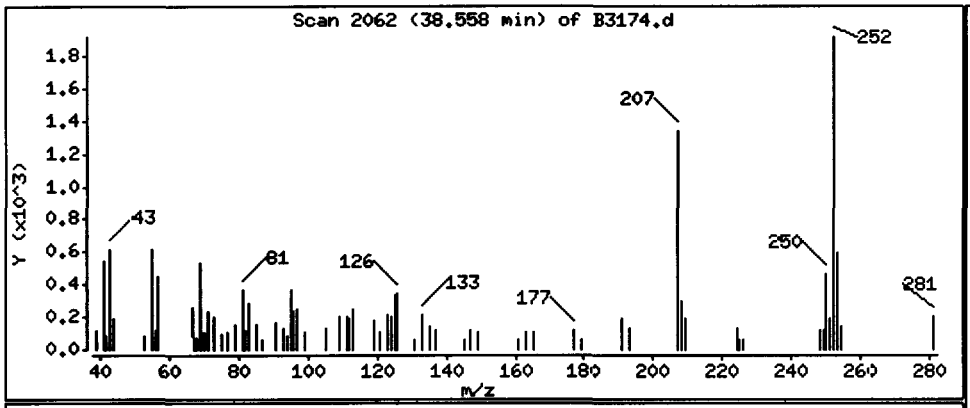
Volume Injected (uL): 2.0

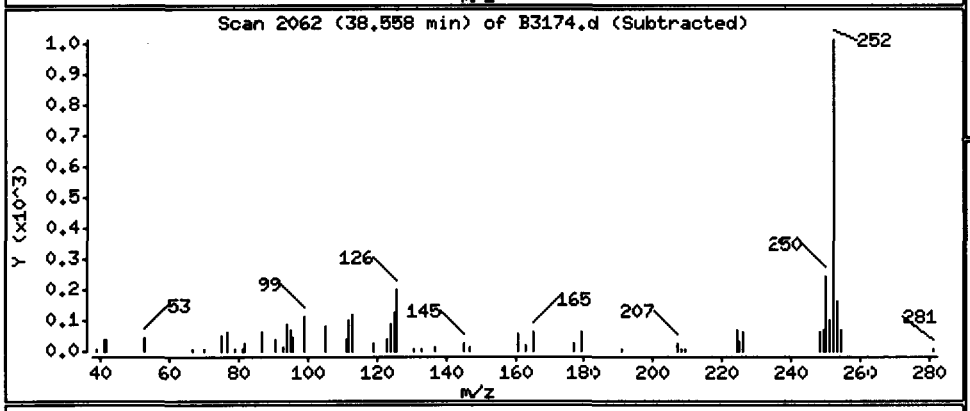
Operator: USER2 REG. GRP.

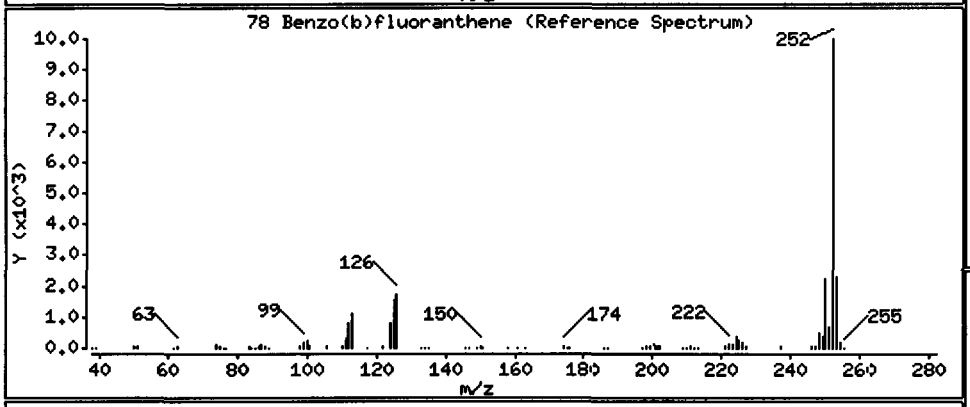
Column phase:

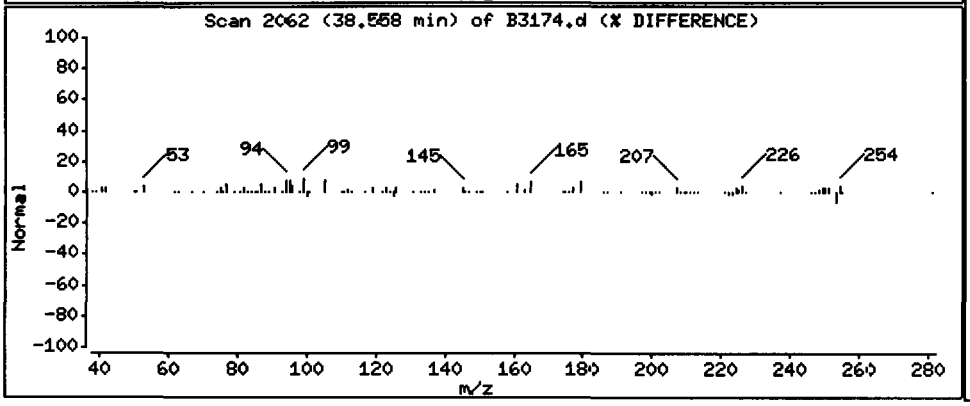
Column diameter: 0.25

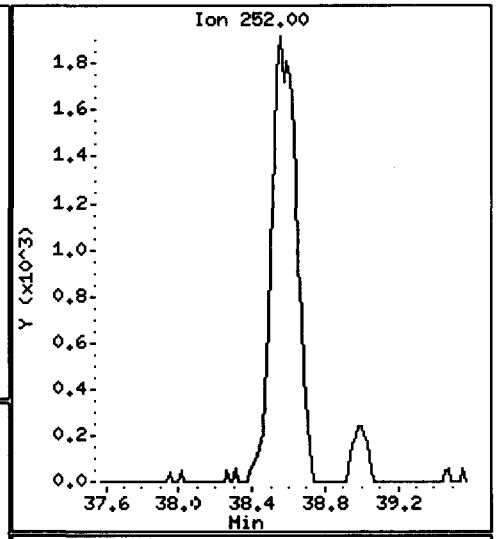
78 Benzo(b)fluoranthene

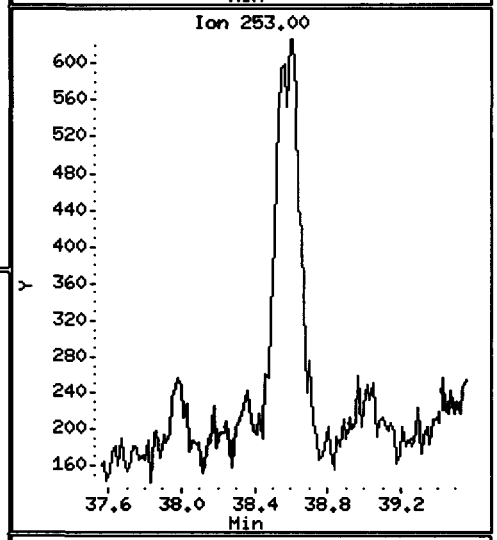


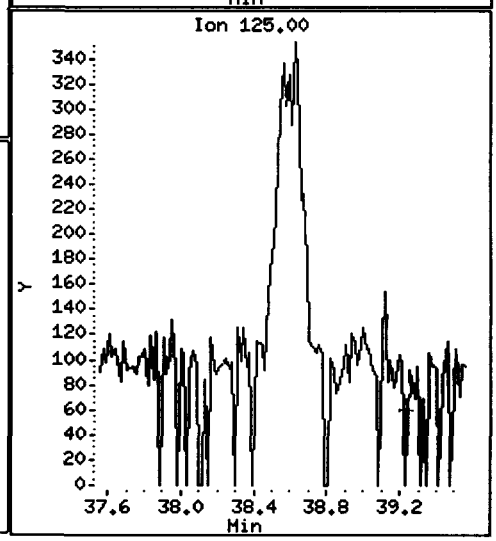












Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

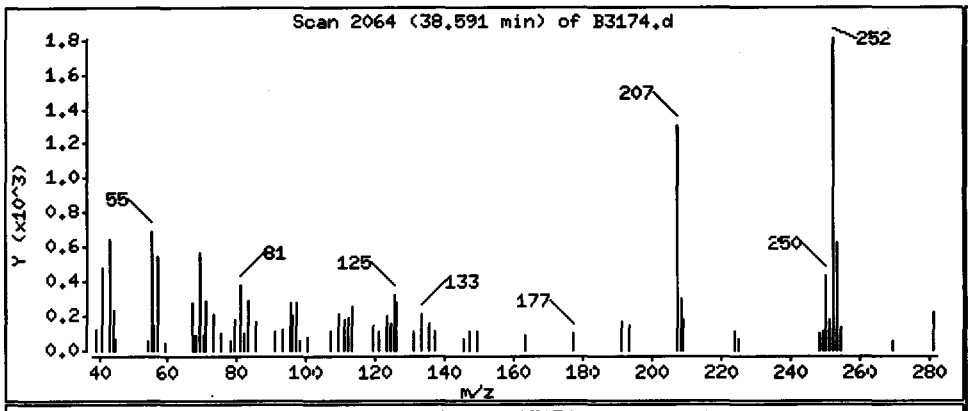
Volume Injected (uL): 2.0

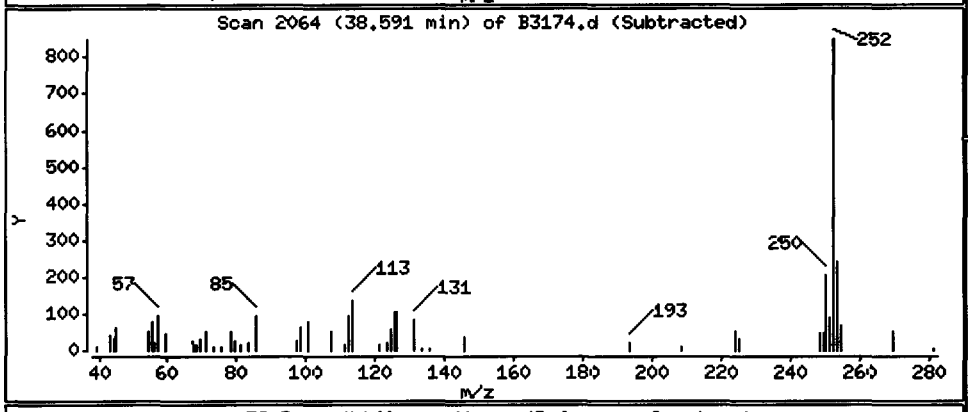
Operator: USER2 REG. GRP.

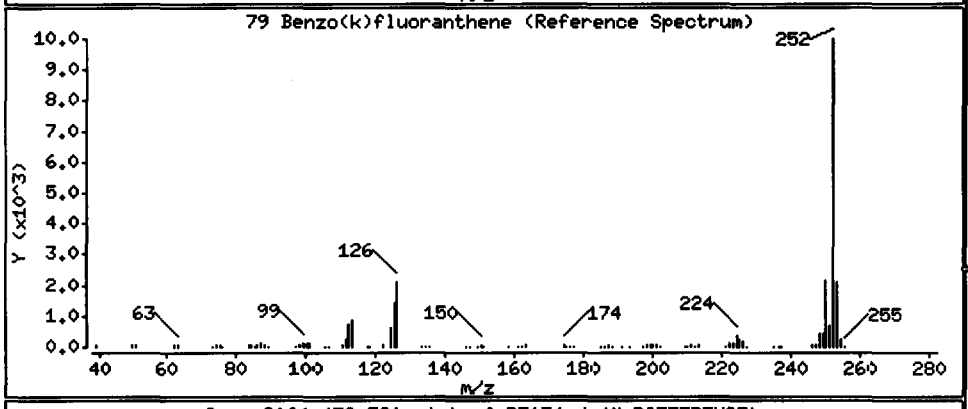
Column phase:

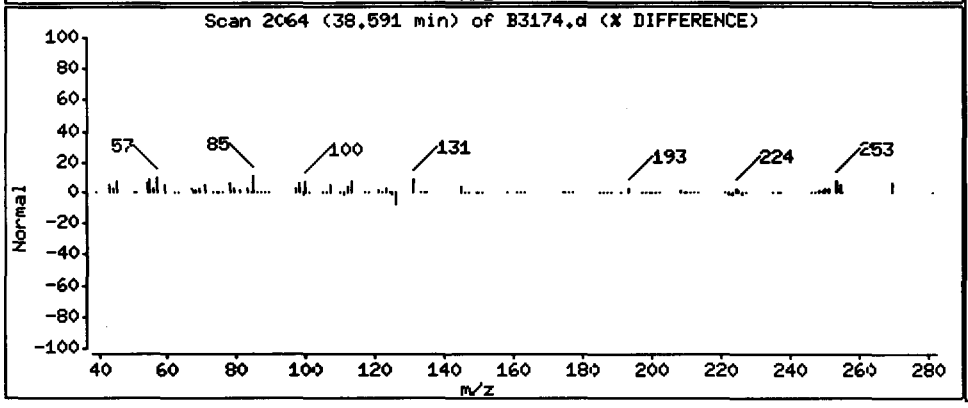
Column diameter: 0.25

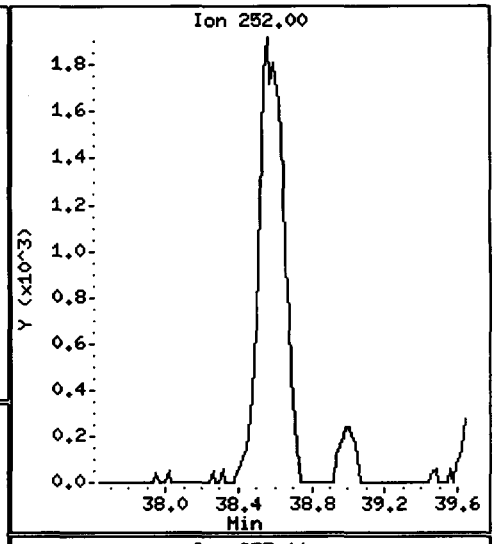
79 Benzo(k)fluoranthene

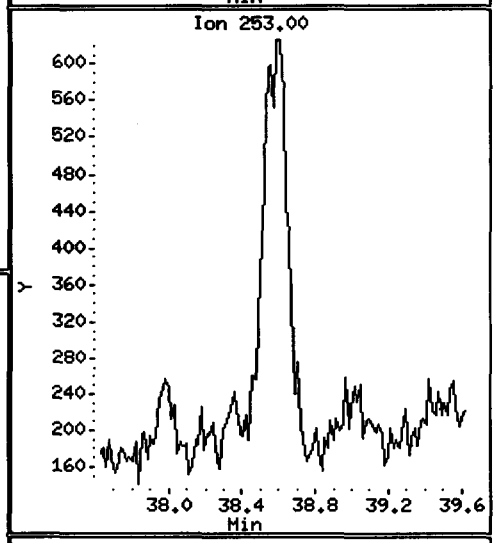


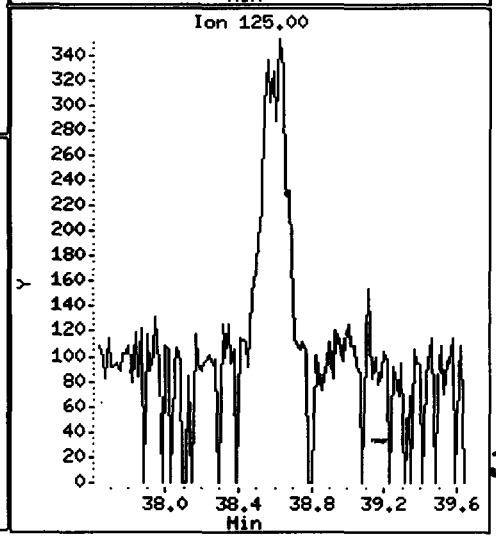












Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

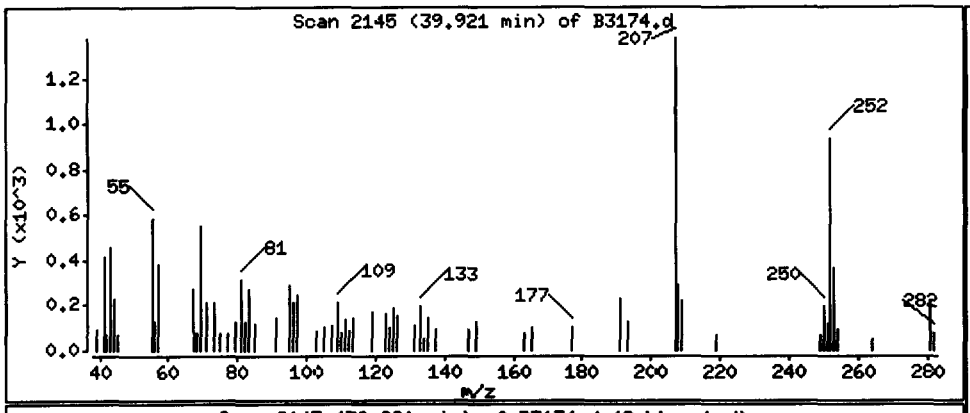
Volume Injected (uL): 2.0

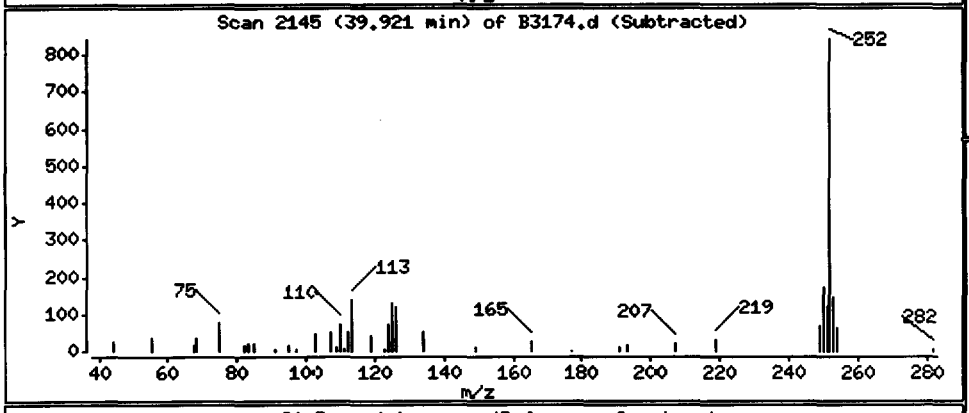
Operator: USER2 REG. GRP.

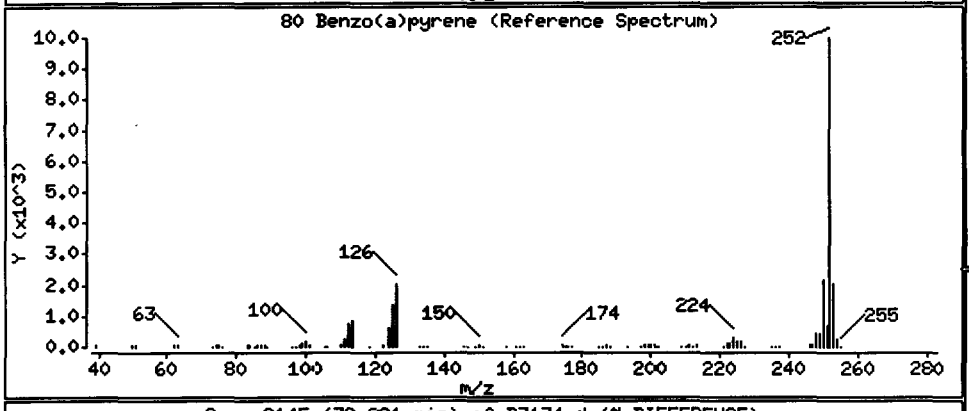
Column phase:

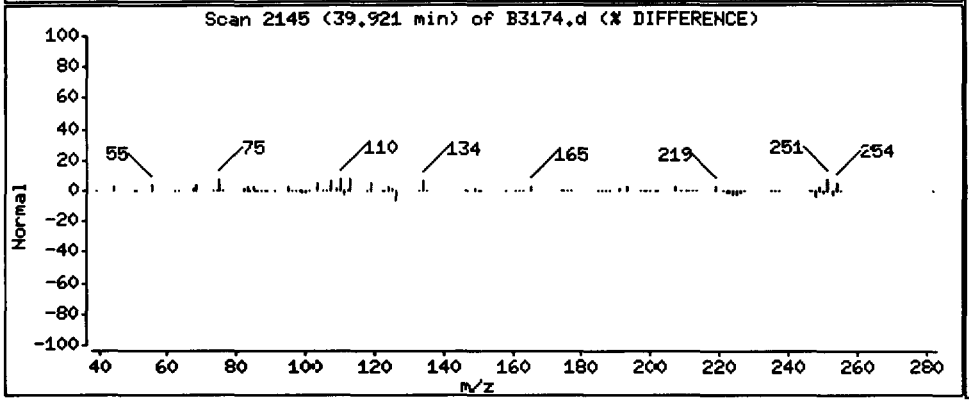
Column diameter: 0.25

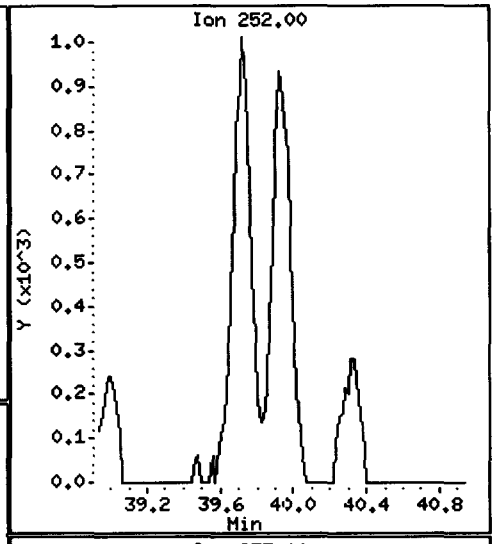
80 Benzo(a)pyrene

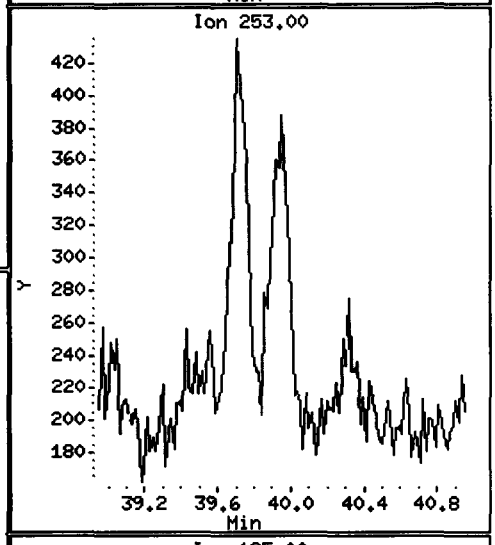


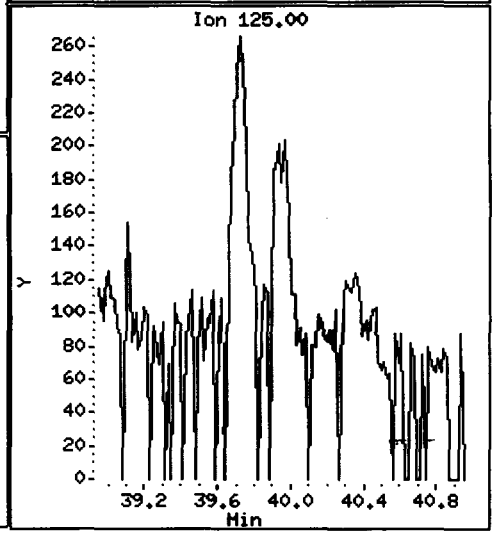












Data File: /var/chem/7002B.i/9705\01421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

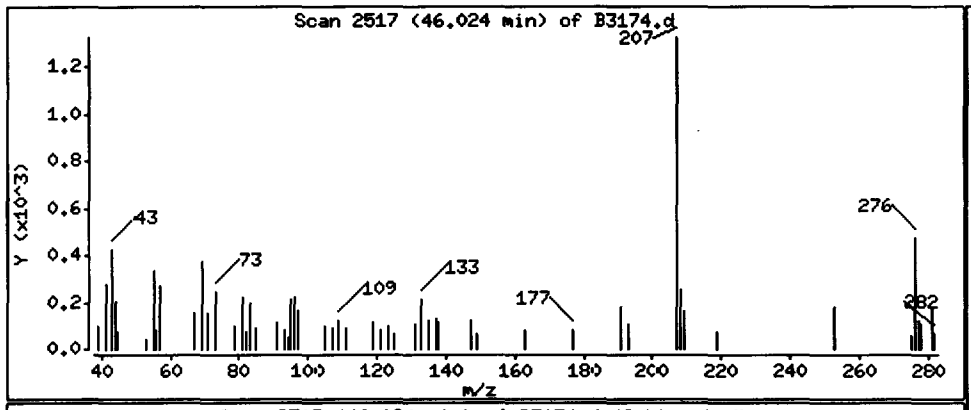
Volume Injected (uL): 2.0

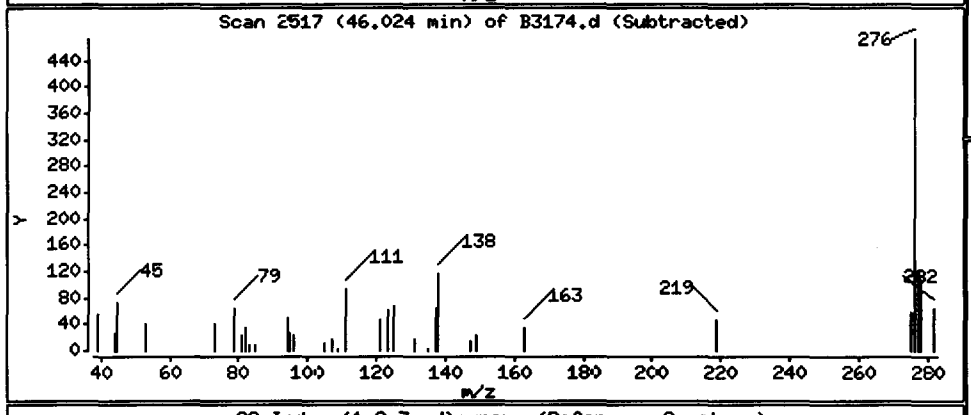
Operator: USER2 REG. GRP.

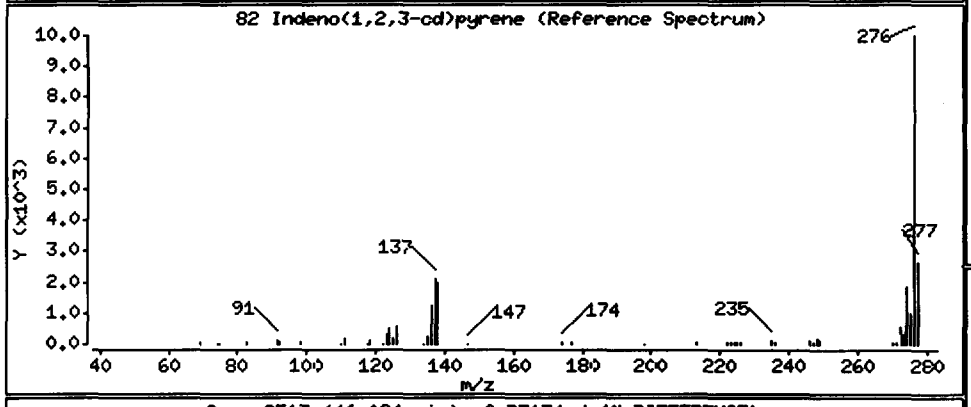
Column phase:

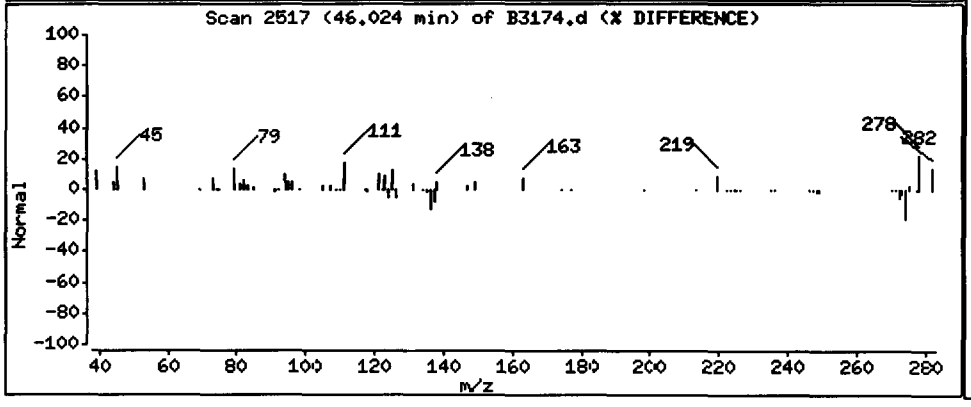
Column diameter: 0.25

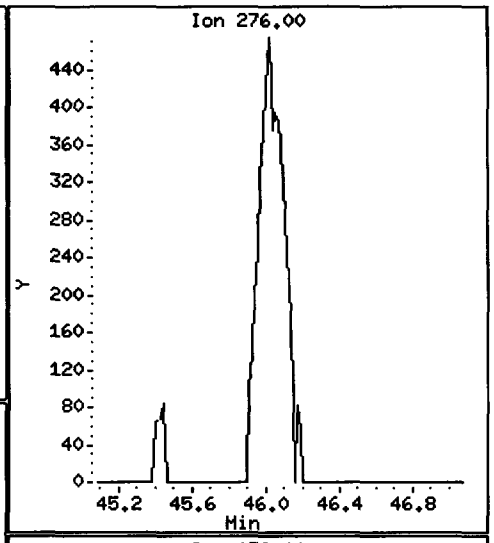
82 Indeno(1,2,3-cd)pyrene

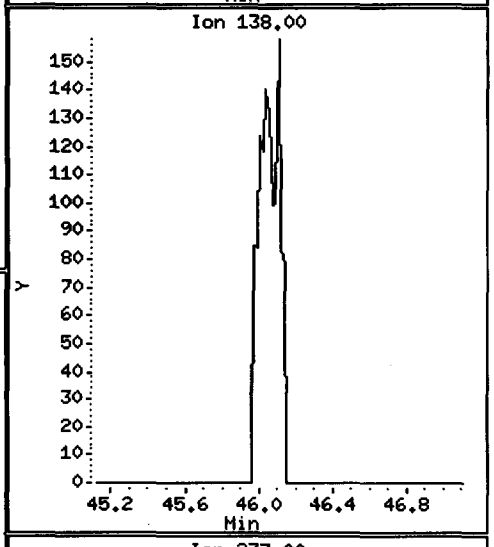


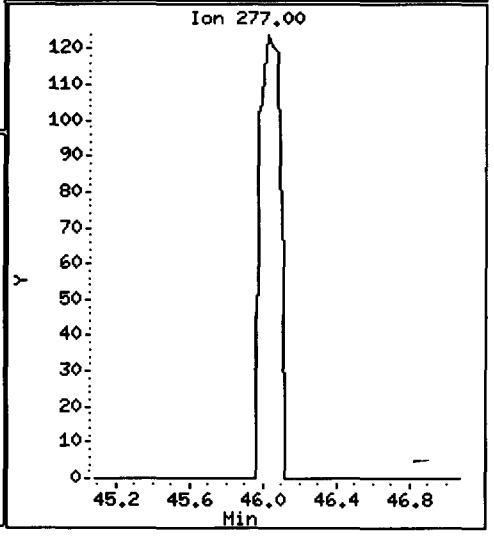












Data File: /var/chem/7002B.i/970501421r.b/B3174.d

Date : 01-MAY-97 16:42:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65106.01

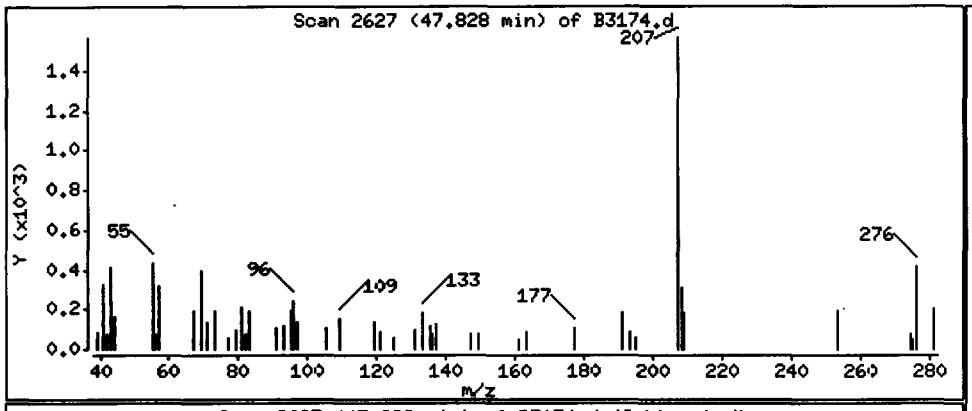
Volume Injected (uL): 2.0

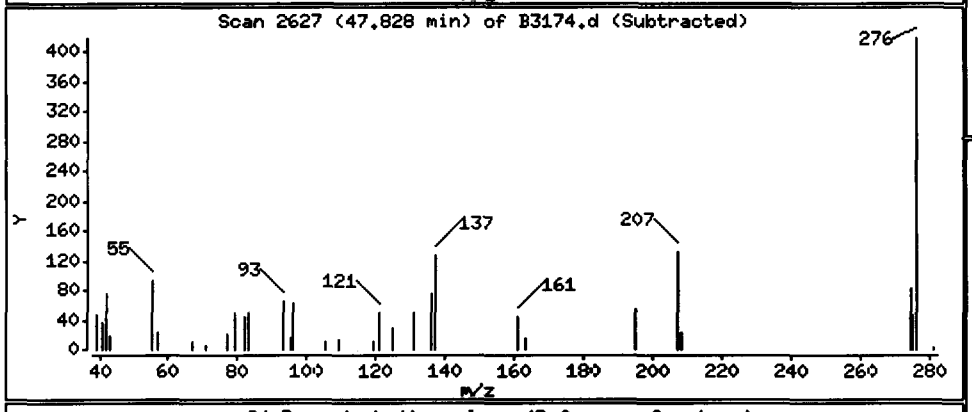
Operator: USER2 REG. GRP.

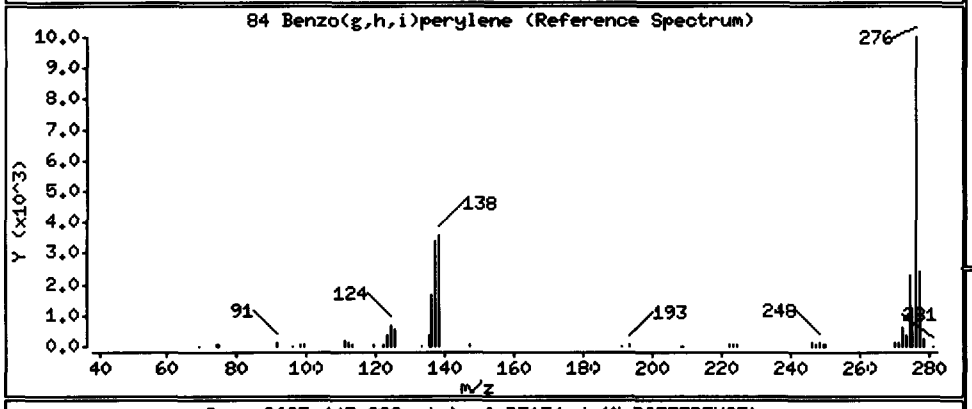
Column phase:

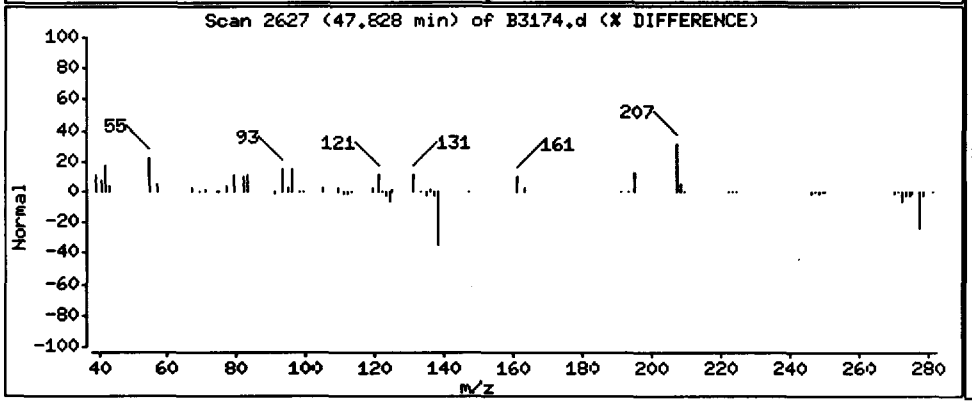
Column diameter: 0.25

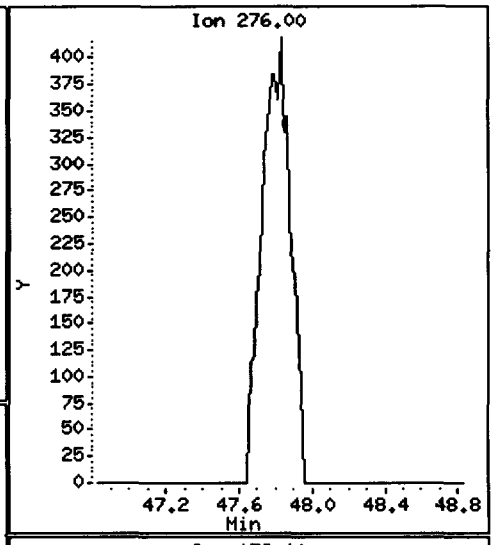
84 Benzo(g,h,i)perylene

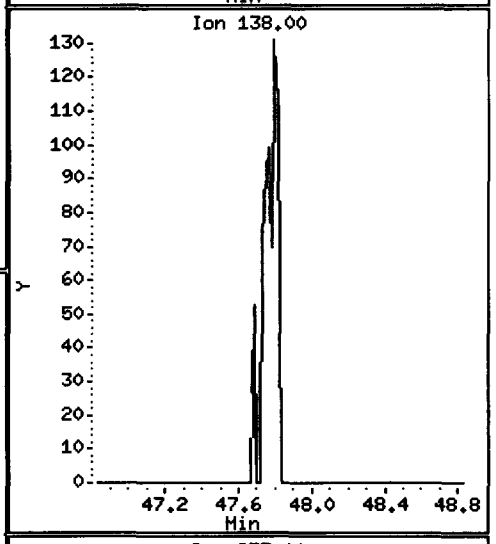


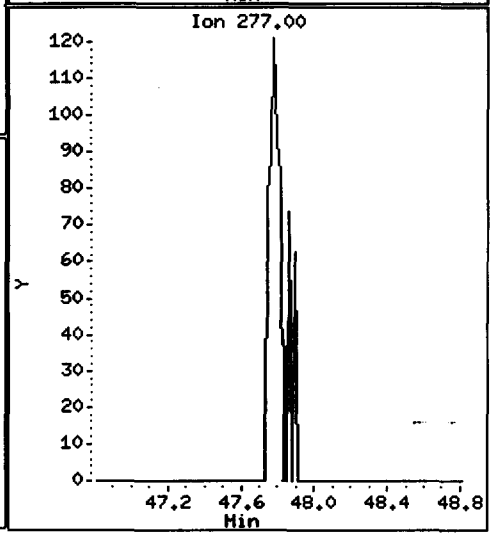












1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q202

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: 65107

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3164

Level: (low/med) LOW Date Received: 04/22/97

% Moisture: 46 decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/97

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	210	J
91-57-6	2-Methylnaphthalene	270	J
91-58-7	2-Chloronaphthalene	610	U
208-96-8	Acenaphthylene	610	U
83-32-9	Acenaphthene	90	J
86-73-7	Fluorene	94	J
85-01-8	Phenanthrene	790	
120-12-7	Anthracene	140	J
206-44-0	Fluroranthene	1800	
129-00-0	Pyrene	1900	
56-55-3	Benzo(a)Anthracene	1700	
218-01-9	Chrysene	2000	
205-99-2	Benzo(b)Fluoranthene	1800	
207-08-9	Benzo(k)Fluoranthene	1800	
50-32-8	Benzo(a)Pyrene	1600	
193-39-5	Indeno(1,2,3-cd)Pyrene	1100	
53-70-3	Dibenz(a,h)Anthracene	610	
191-24-2	Benzo(g,h,i)Perylene	1200	

(1) - Cannot be separated from Diphenylamine

Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

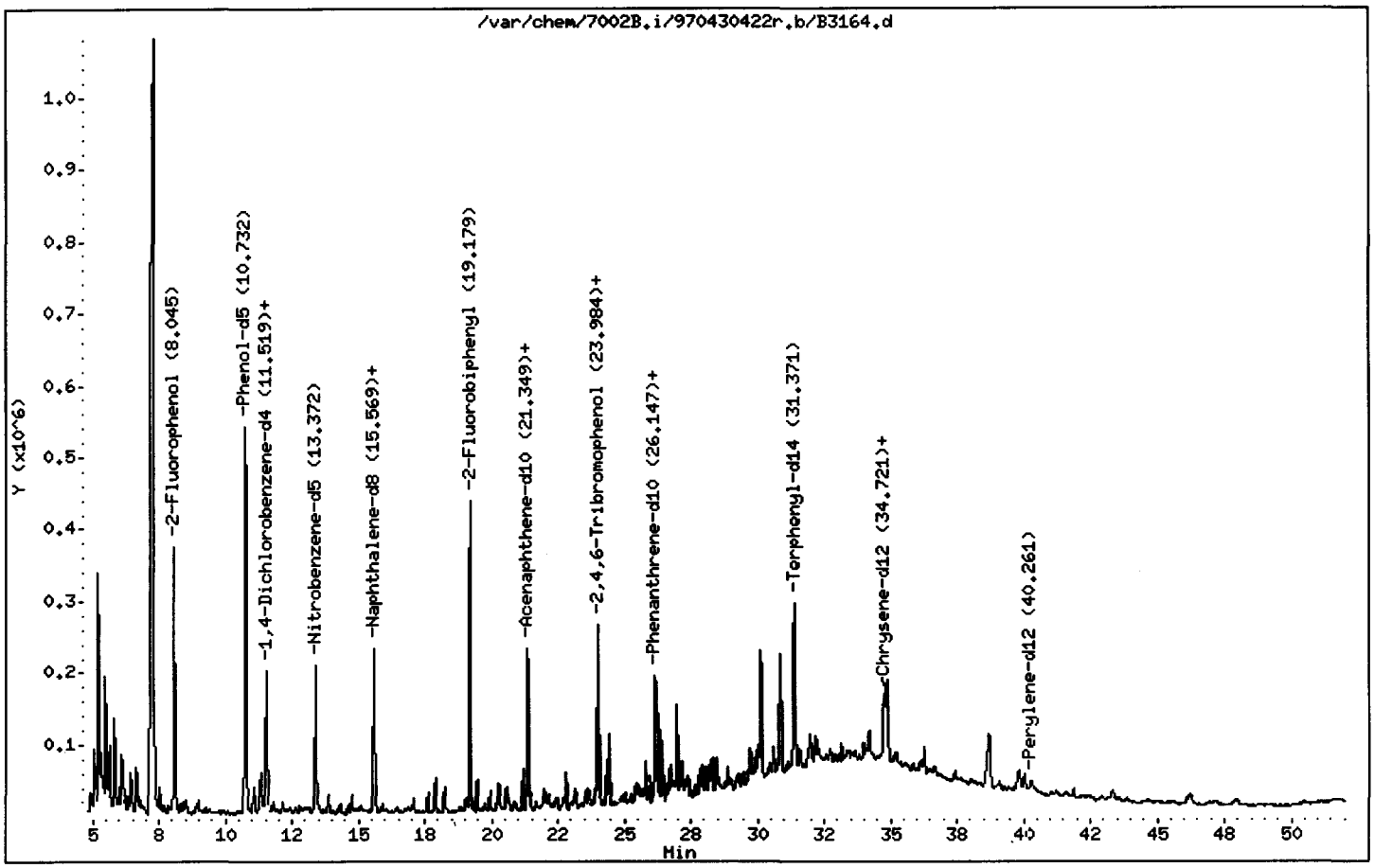
Sample Info: 9700.860 65107.01

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970430422r.b/B3164.d
Lab Smp Id:
Inj Date : 01-MAY-97 04:46:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : 9700.860 65107.01
Misc Info : [970430422R]{COBX71}970428480P,SBN_0A,DCE,4300 Q202 BTL#
Comment :
Method : /var/chem/7002B.i/970430422r.b/cobx71.m
Meth Date : 05-May-97 16:05:49 mscanlon Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 11 1,4-Dichlorobenzene-d4	152	11.519	11.485	(1.000)	94477	40.0	
$ 21 Nitrobenzene-d5	82	13.372	13.353	(0.859)	178356	45.0	750
* 30 Naphthalene-d8	136	15.569	15.547	(1.000)	308742	40.0	
31 Naphthalene	128	15.634	15.613	(1.004)	56825	6.69	111(a)
35 2-Methylnaphthalene	141	17.882	17.854	(1.149)	42318	8.62	144(a)
$ 39 2-Fluorobiphenyl	172	19.179	19.149	(0.898)	440026	65.0	1080
* 45 Acenaphthene-d10	164	21.349	21.325	(1.000)	175219	40.0	
47 Acenaphthene	153	21.448	21.423	(1.005)	15849	2.91	48.6(a)
53 Fluorene	166	23.094	23.060	(1.082)	17069	3.05	50.8(a)
* 62 Phenanthrene-d10	188	26.147	26.104	(1.000)	243397	40.0	
63 Phenanthrene	178	26.213	26.170	(1.003)	178973	25.6	426
64 Anthracene	178	26.362	26.318	(1.008)	30910	4.50	75.0(a)
67 Fluoranthene	202	30.123	30.044	(1.152)	319562	59.2	987
69 Pyrene	202	30.855	30.780	(0.887)	275661	63.0	1050
$ 70 Terphenyl-d14	244	31.371	31.303	(0.902)	291436	83.8	1400

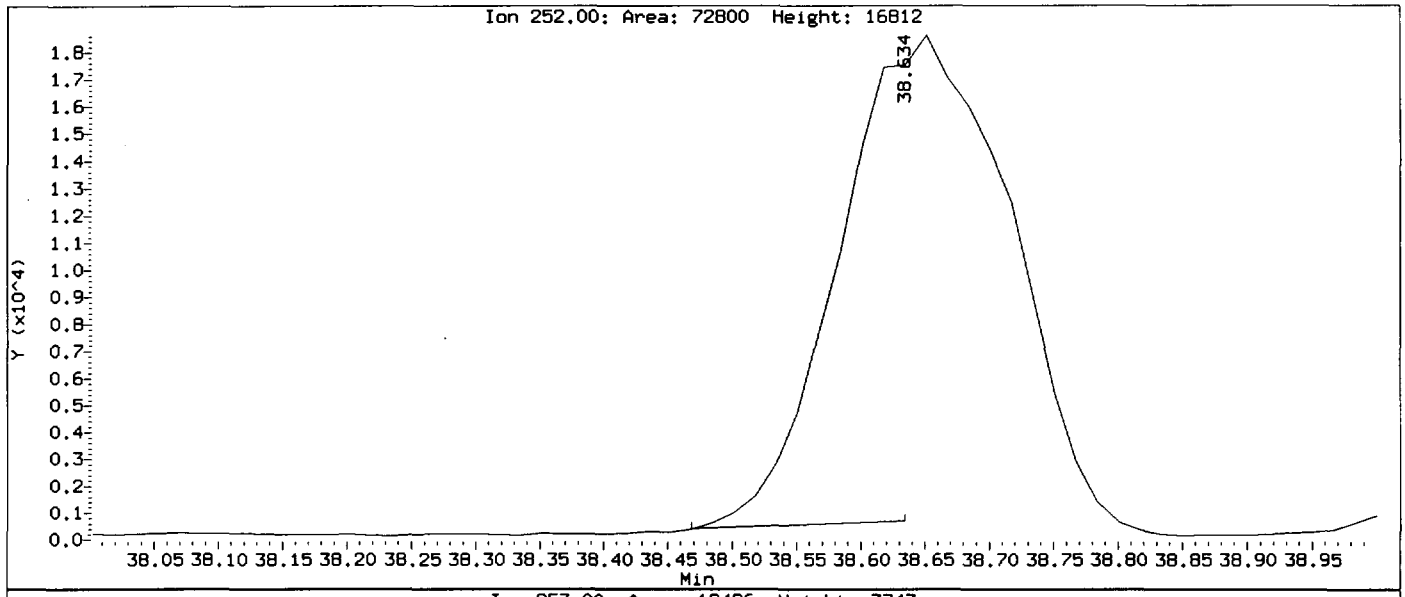
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
72 Benzo(a)anthracene	228	34.721	34.638	(0.998)	145561	55.1	919
* 74 Chrysene-d12	240	34.788	34.704	(1.000)	77345	40.0	
75 Chrysene	228	34.855	34.786	(1.002)	162872	66.1	1100
78 Benzo(b)fluoranthene	252	38.634	38.498	(0.960)	72800	58.4	973(M)
79 Benzo(k)fluoranthene	252	38.651	38.596	(0.960)	94286	59.2	986(M)
80 Benzo(a)pyrene	252	40.012	39.872	(0.994)	59142	52.9	882
* 81 Perylene-d12	264	40.261	40.134	(1.000)	42453	40.0	
82 Indeno(1,2,3-cd)pyrene	276	46.180	45.939	(1.147)	45455	36.7	612
83 Dibenzo(a,h)anthracene	278	46.197	46.038	(1.147)	19696	19.7	328(a)
84 Benzo(g,h,i)perylene	276	47.945	47.690	(1.191)	39533	39.3	655

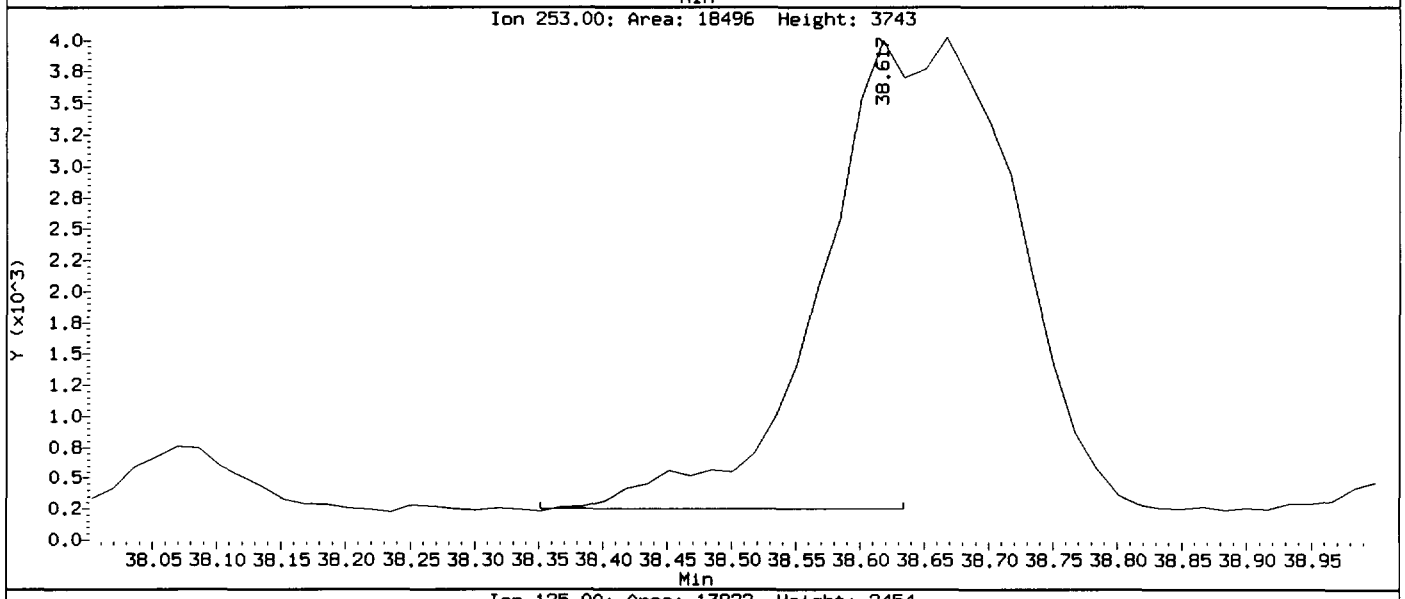
QC Flag Legend

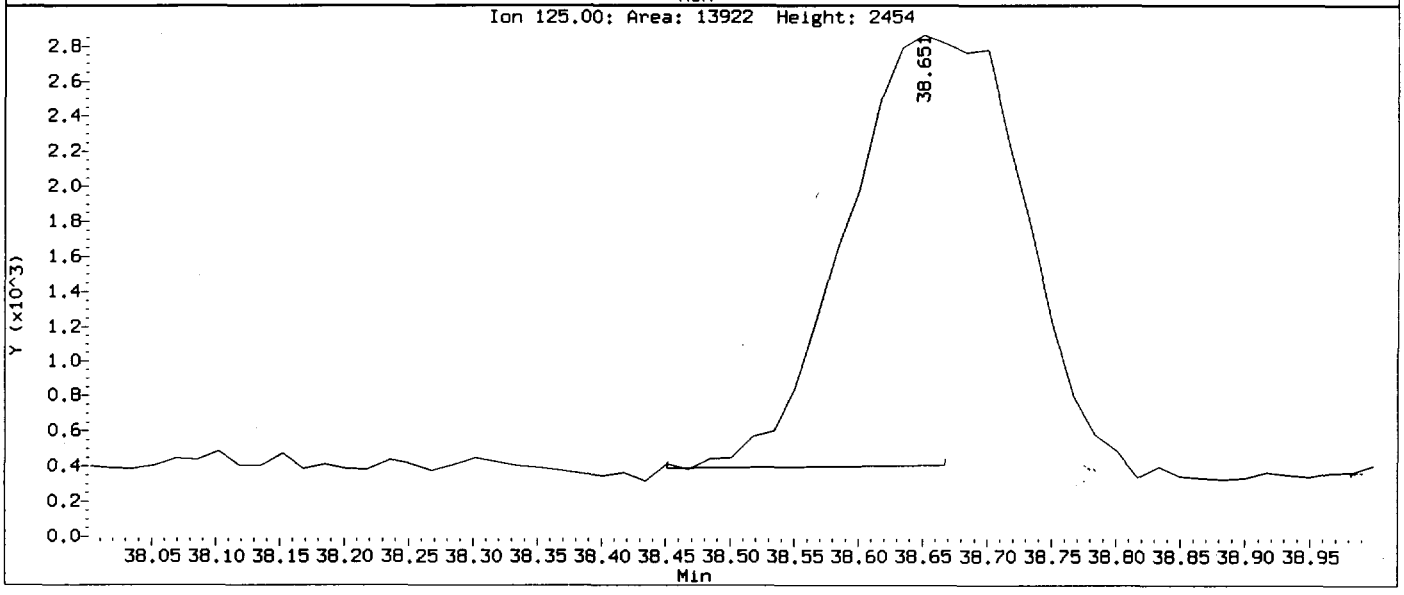
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /var/chem/7002B.i/970430422r.b/B3164.d
Injection Date: 01-MAY-97 04:46:00
Instrument: 7002B.i
Client Sample ID:

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2

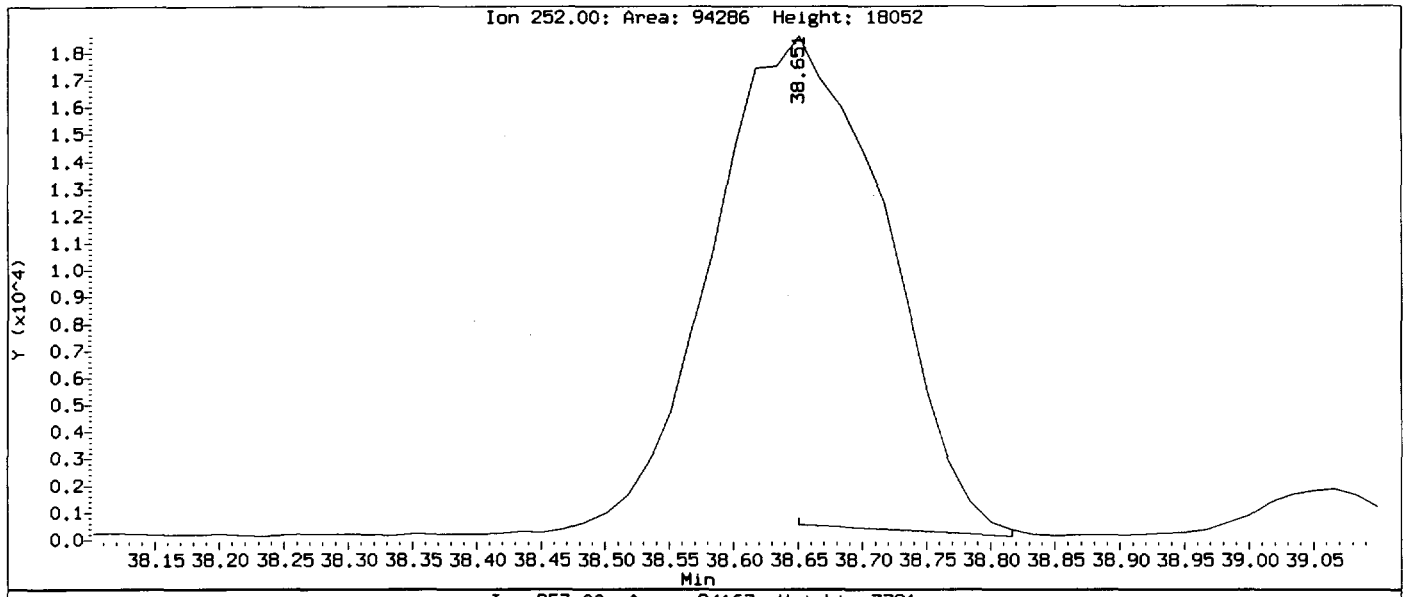


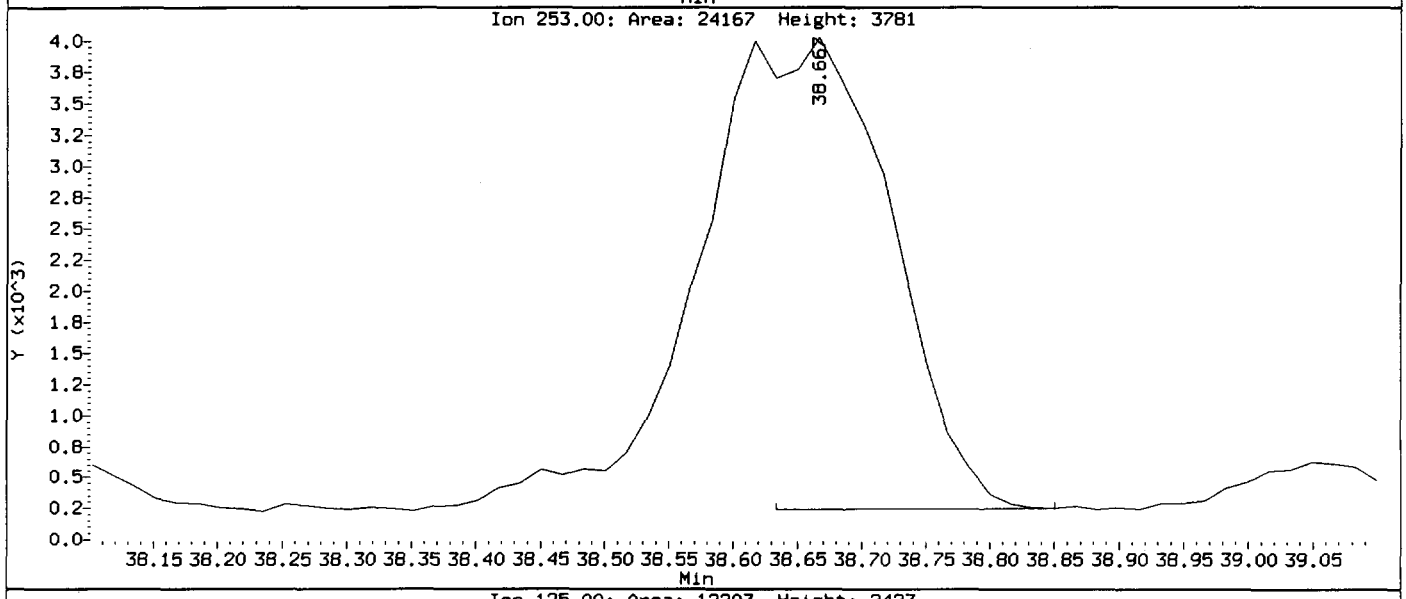


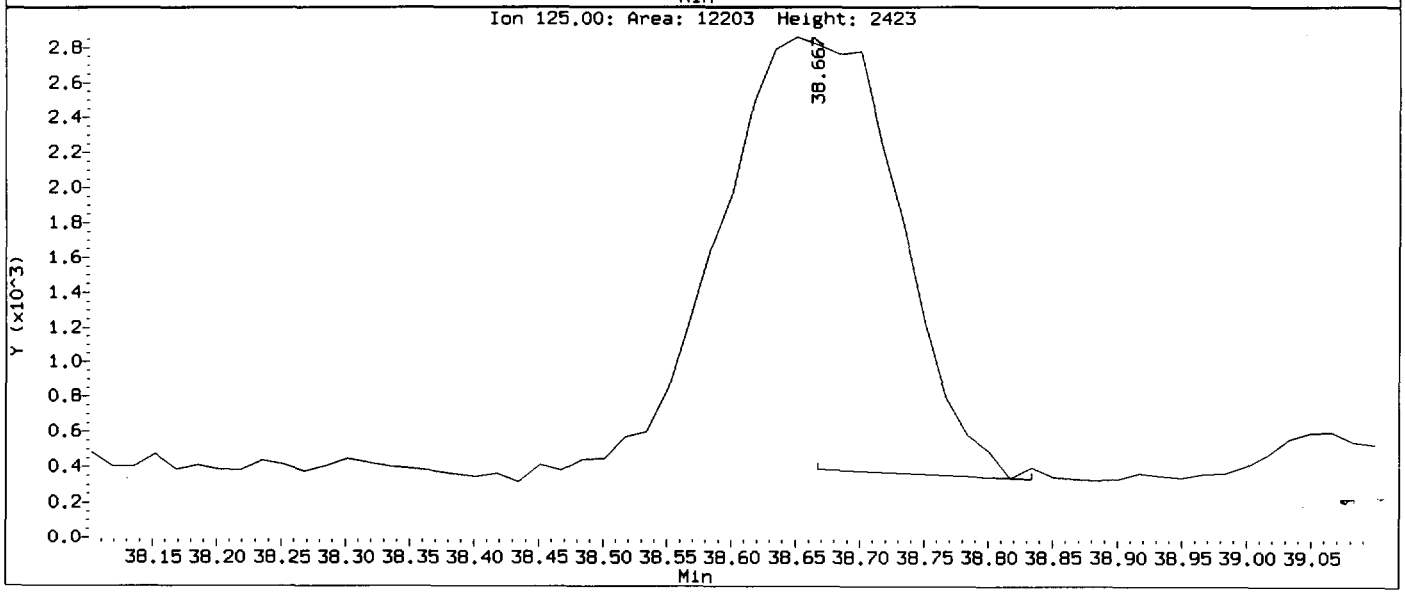


Data File: /var/chem/7002B.i/970430422r.b/B3164.d
Injection Date: 01-MAY-97 04:46:00
Instrument: 7002B.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9







Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

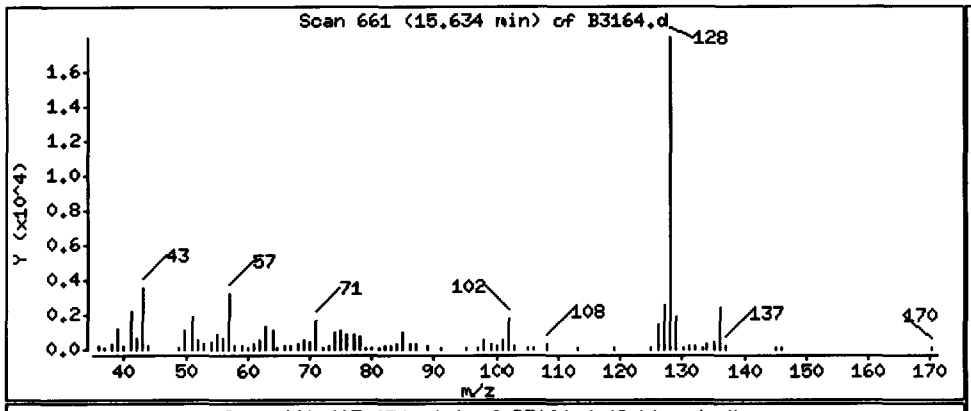
Volume Injected (uL): 2.0

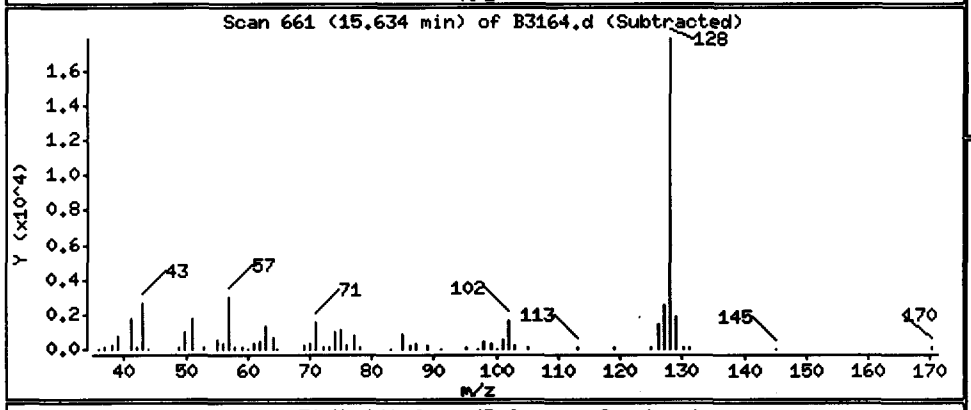
Operator: USER2 REG. GRP.

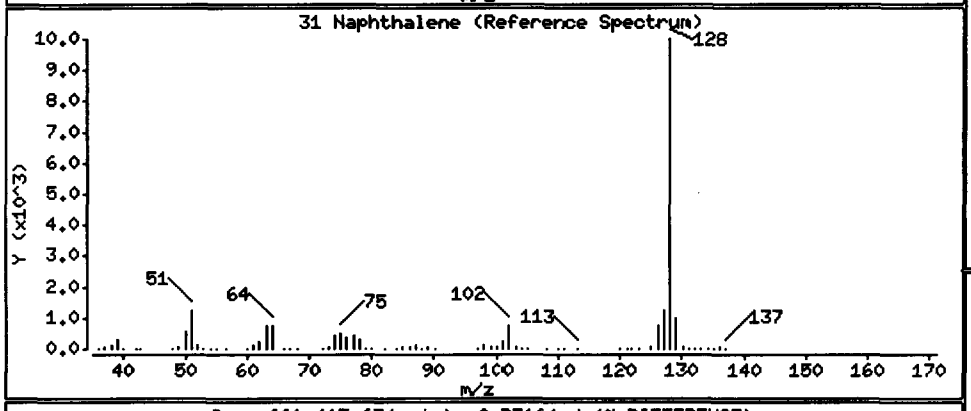
Column phase:

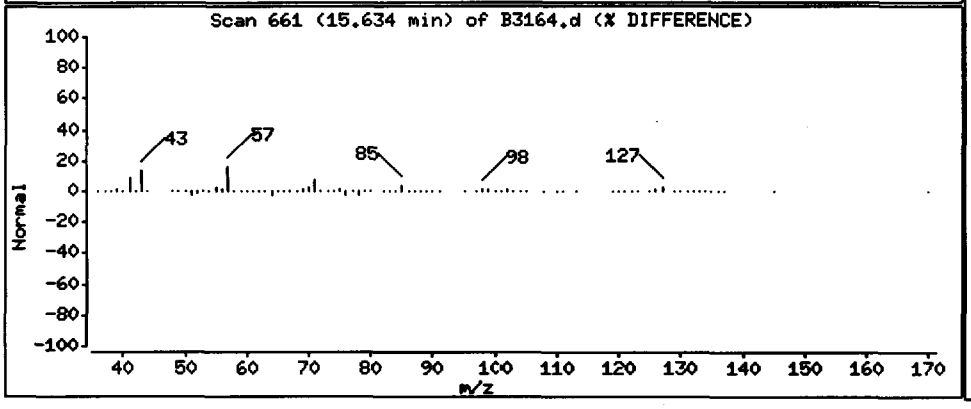
Column diameter: 0.25

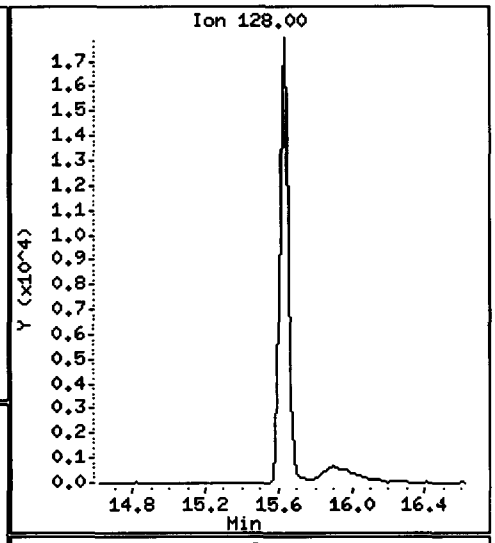
31 Naphthalene

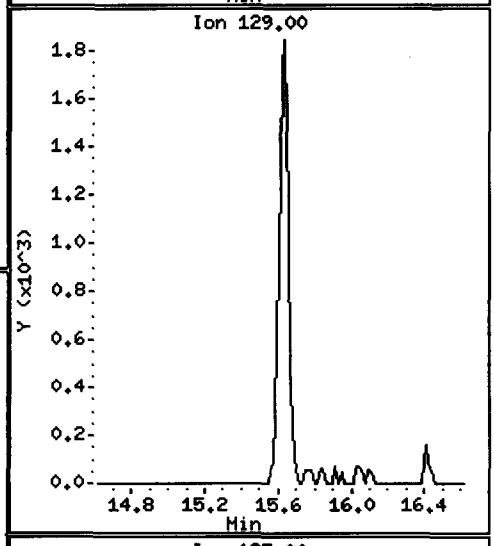


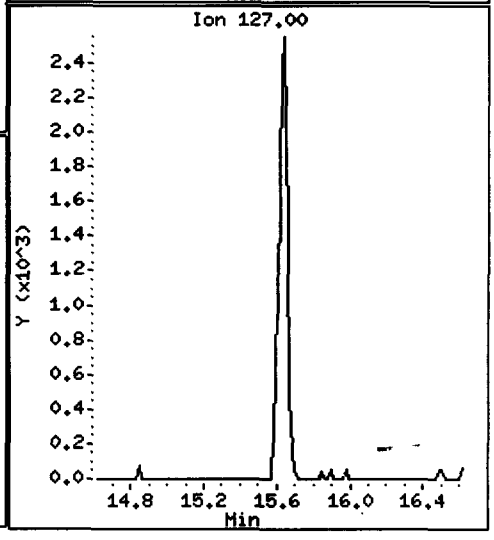












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

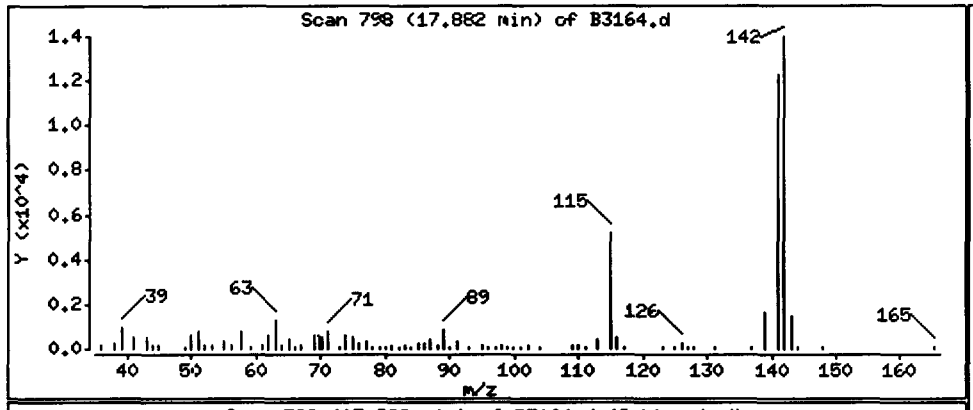
Volume Injected (uL): 2.0

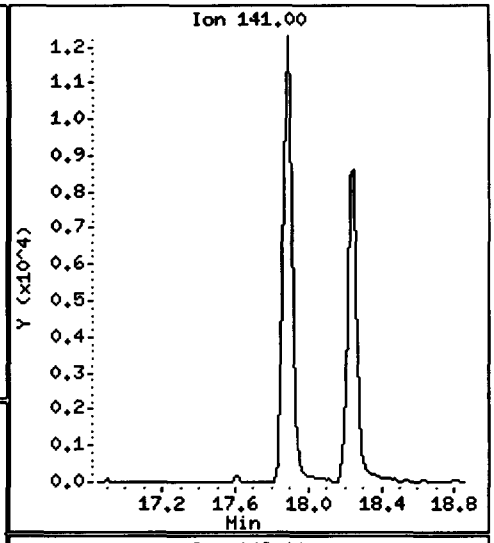
Operator: USER2 REG. GRP.

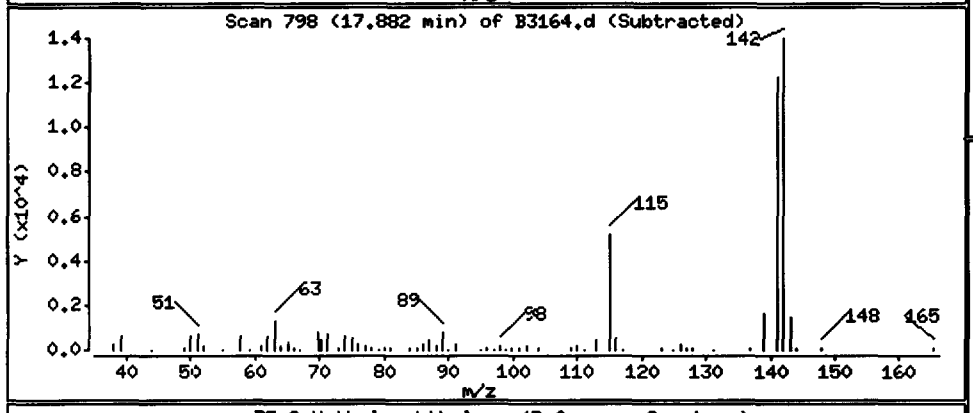
Column phase:

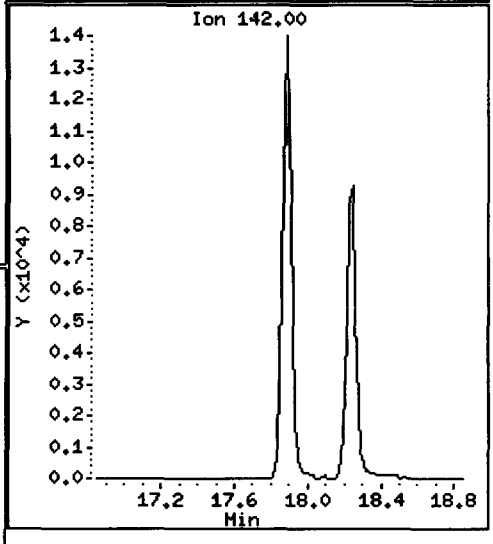
Column diameter: 0.25

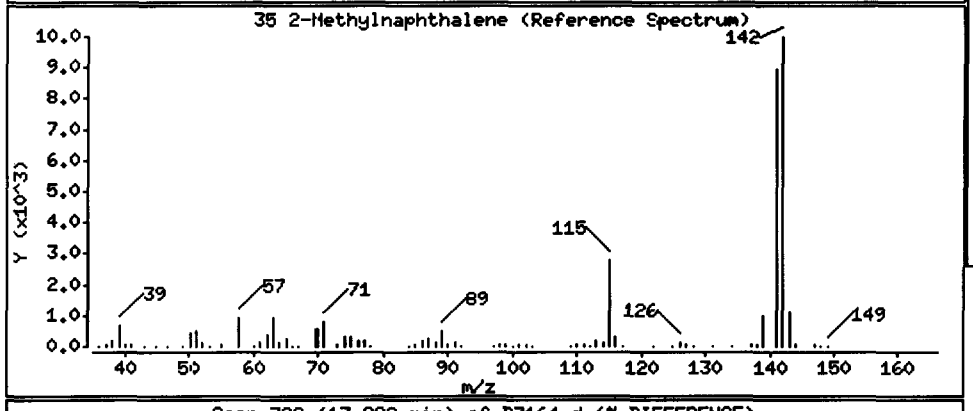
35 2-Methylnaphthalene

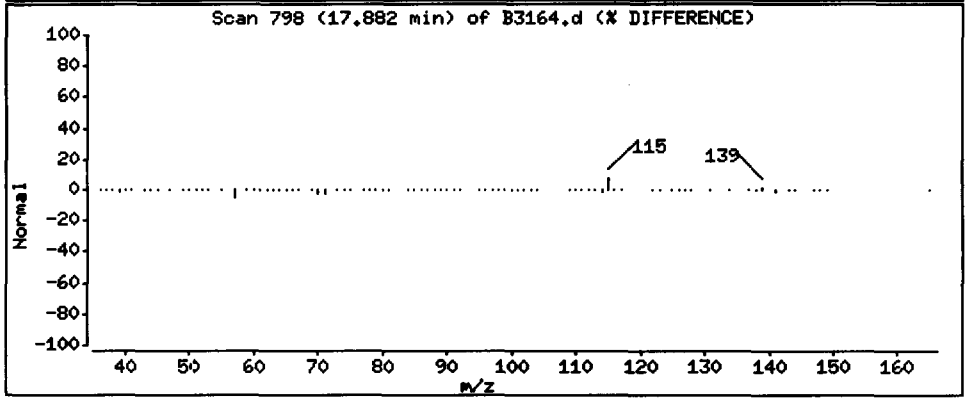












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

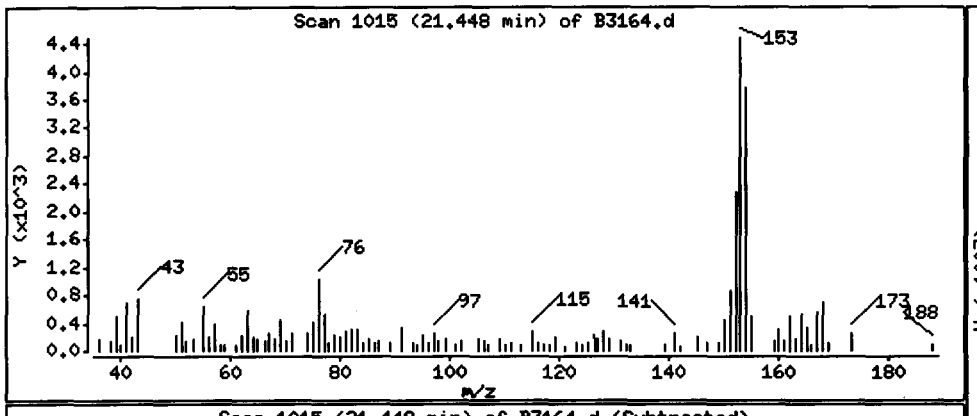
Volume Injected (uL): 2.0

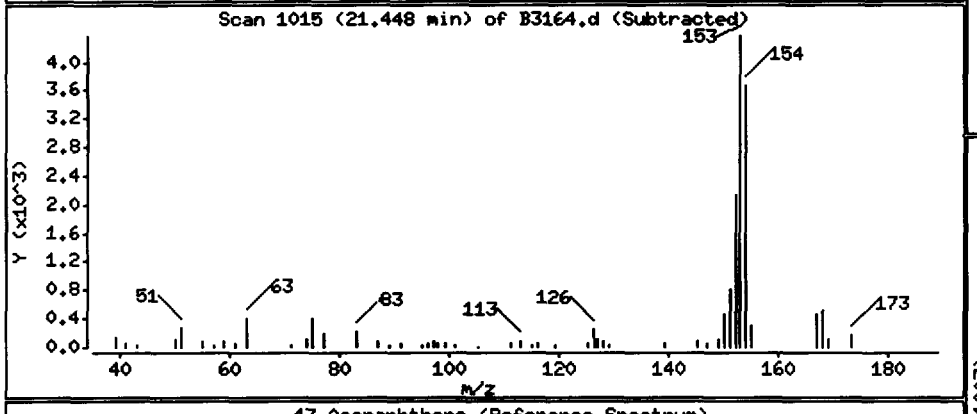
Operator: USER2 REG. GRP.

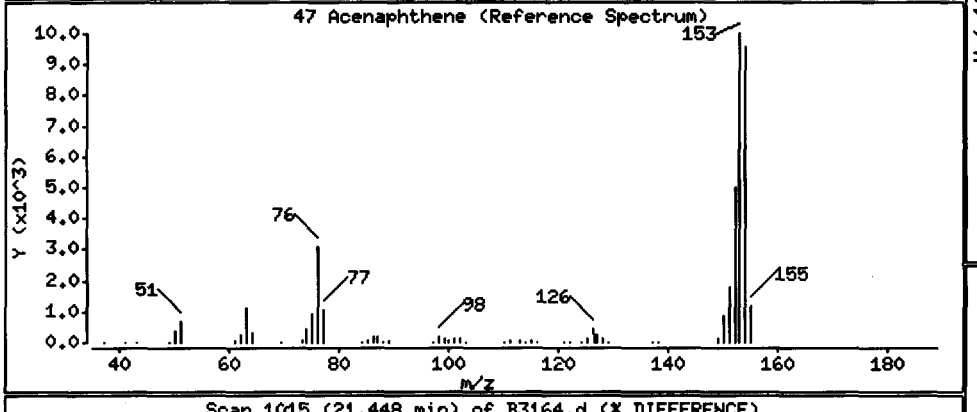
Column phase:

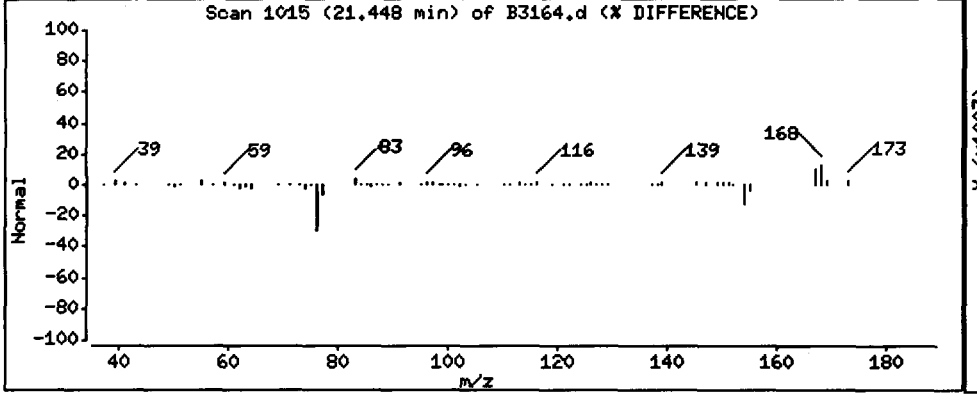
Column diameter: 0.25

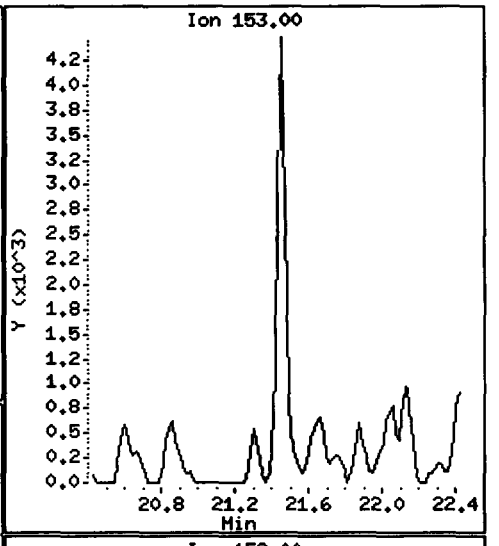
47 Acenaphthene

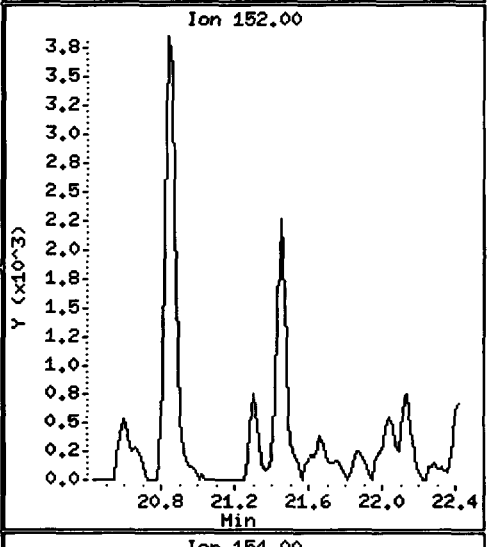


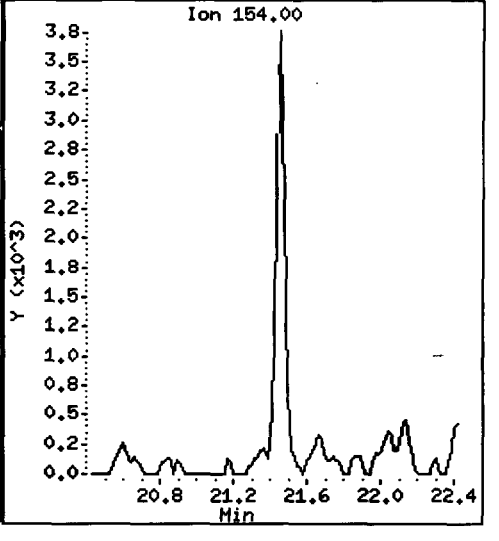












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

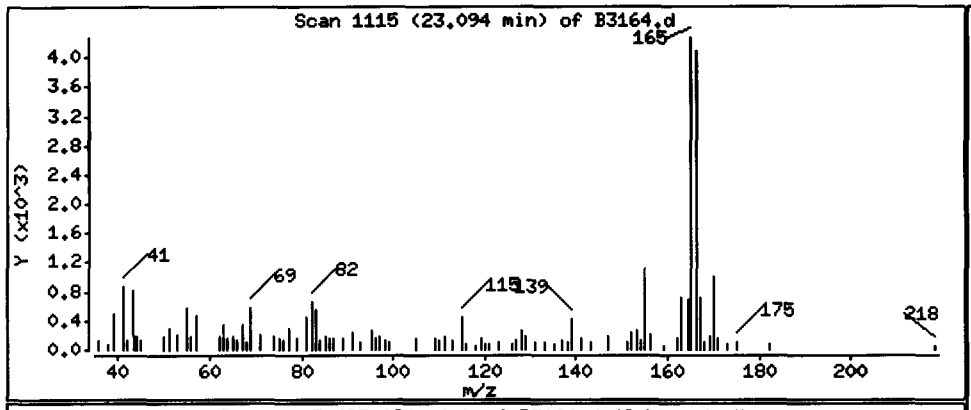
Volume Injected (uL): 2.0

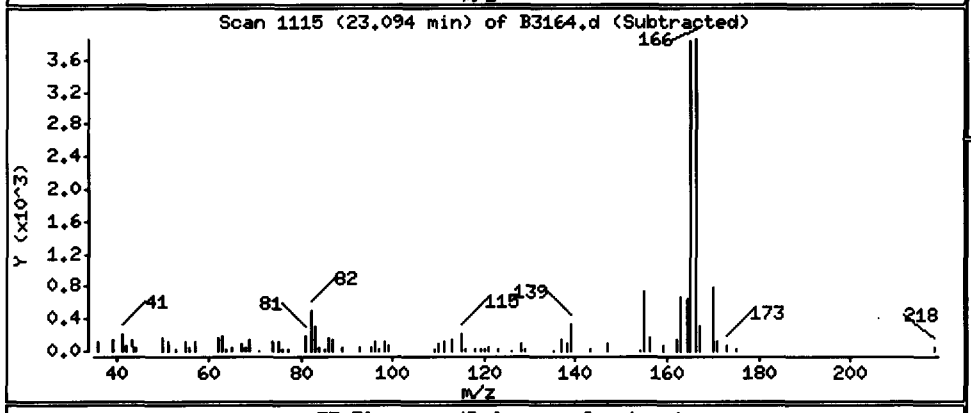
Operator: USER2 REG. GRP.

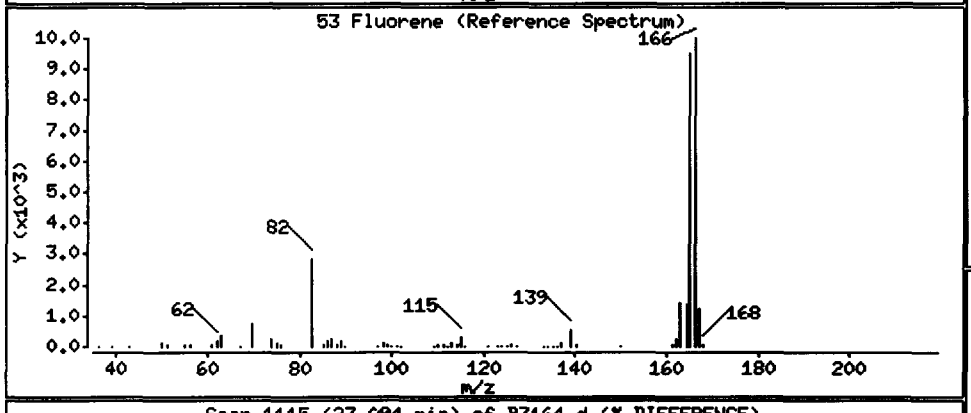
Column phase:

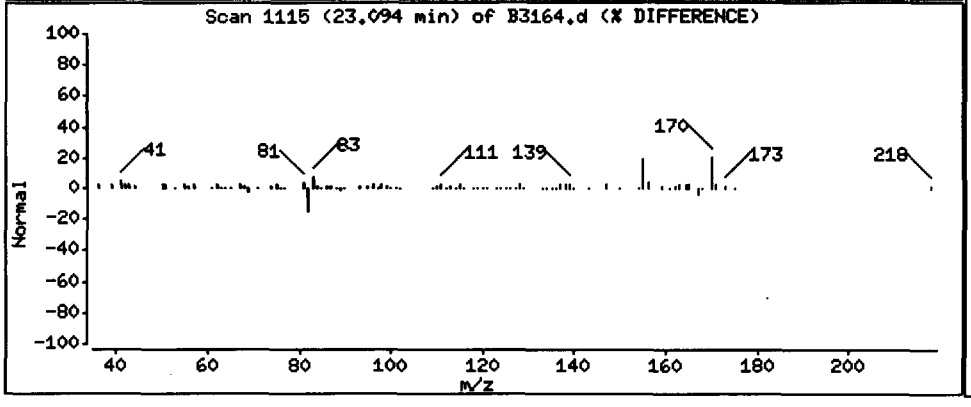
Column diameter: 0.25

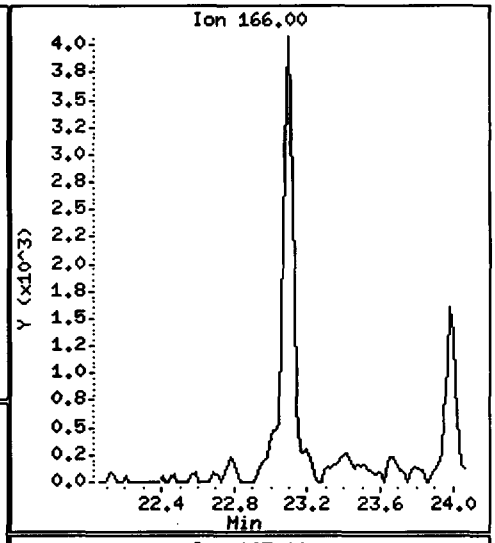
53 Fluorene

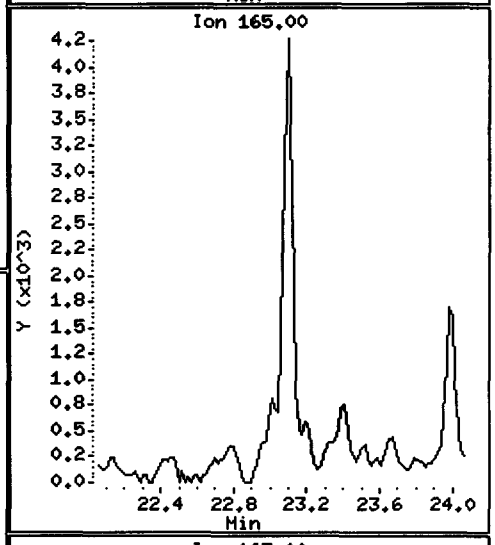


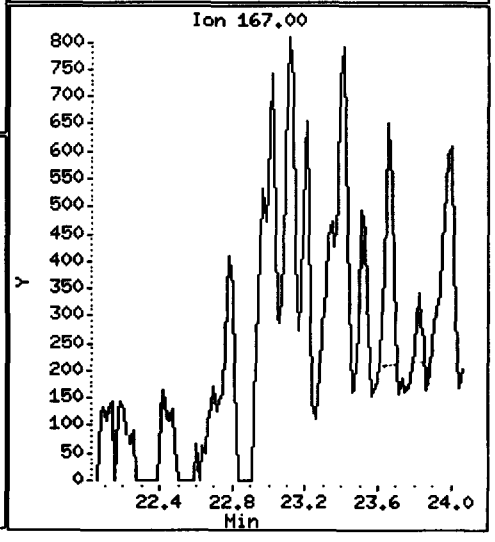












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

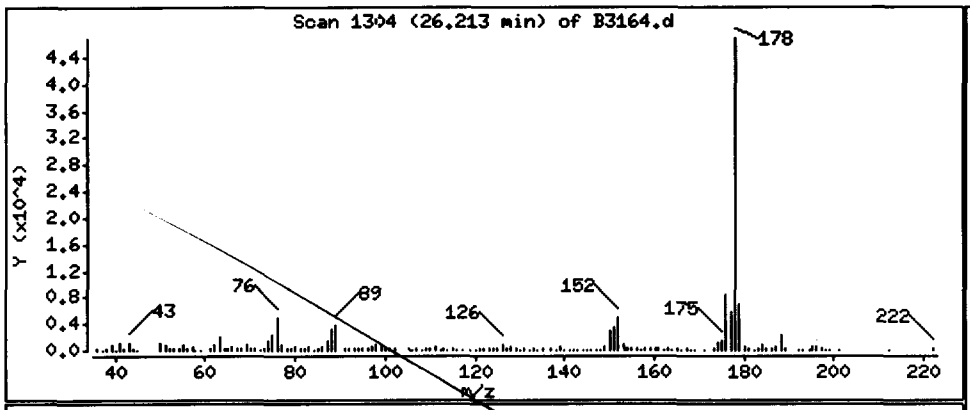
Volume Injected (uL): 2.0

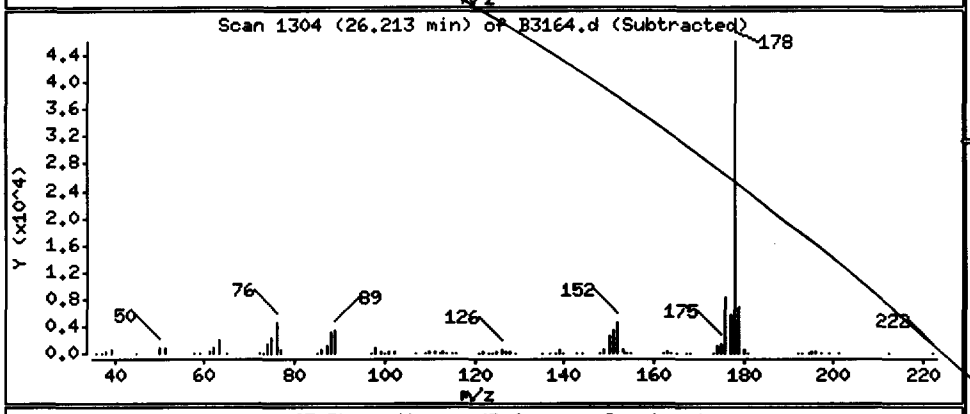
Operator: USER2 REG. GRP.

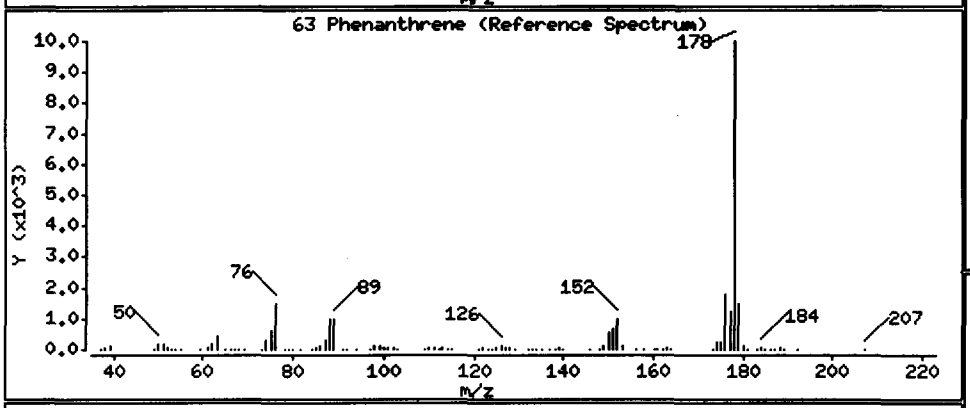
Column phase:

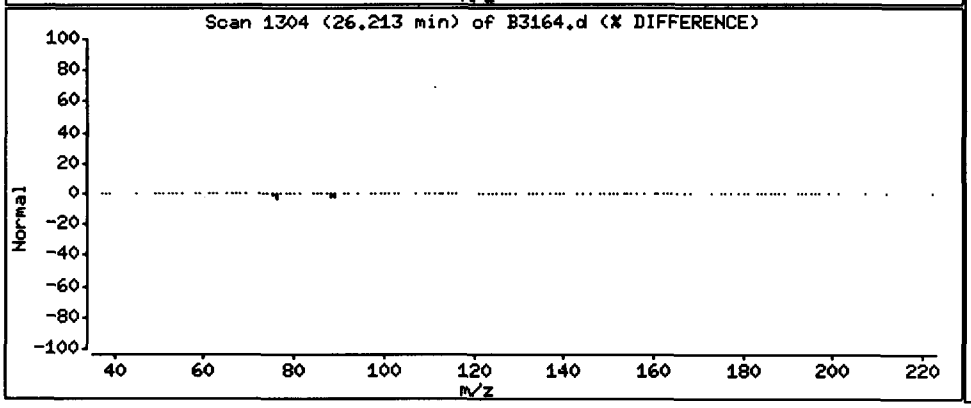
Column diameter: 0.25

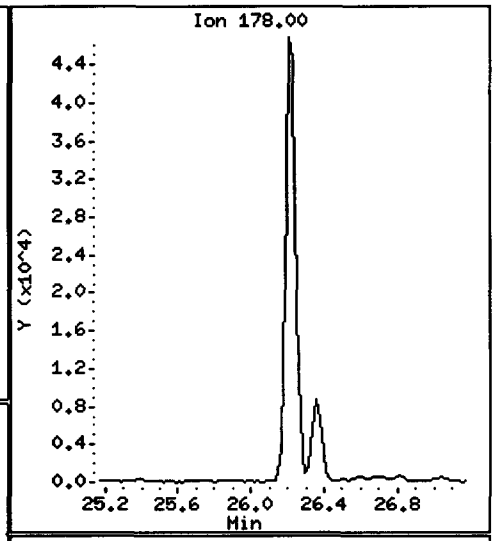
63 Phenanthrene

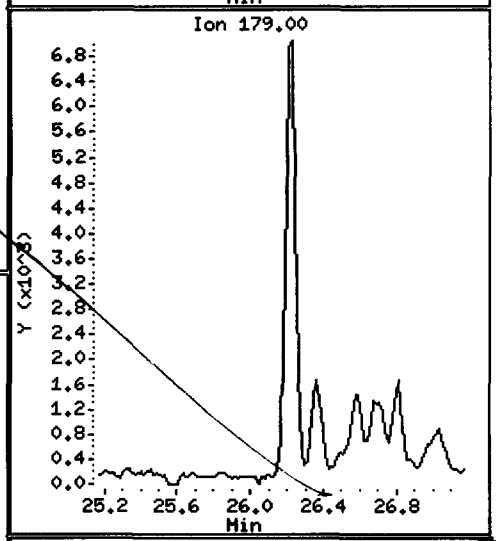


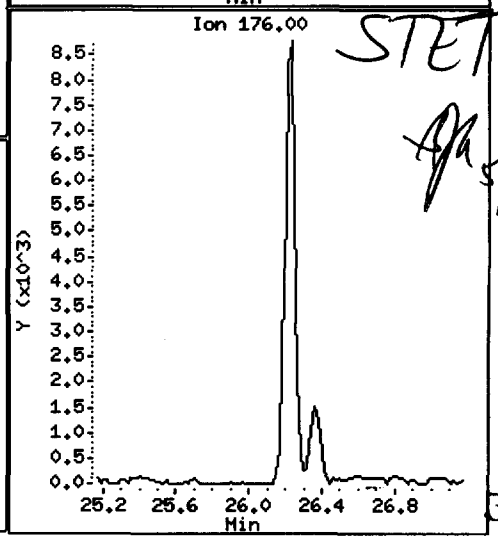












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5/12/97

50

Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

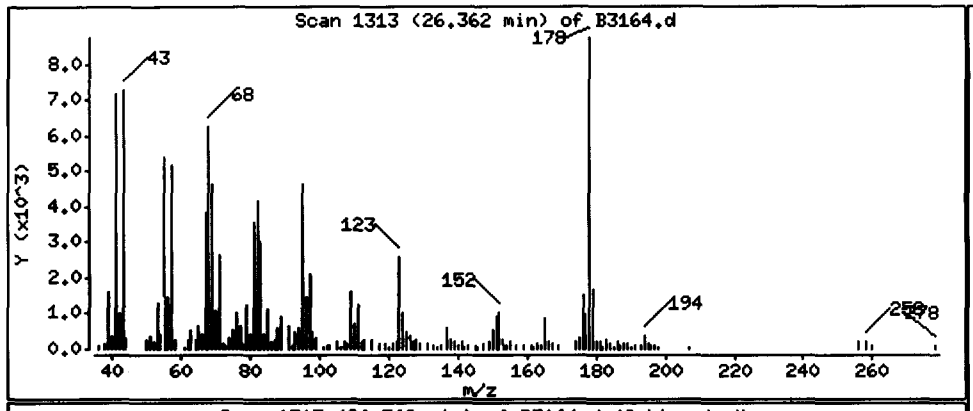
Volume Injected (uL): 2.0

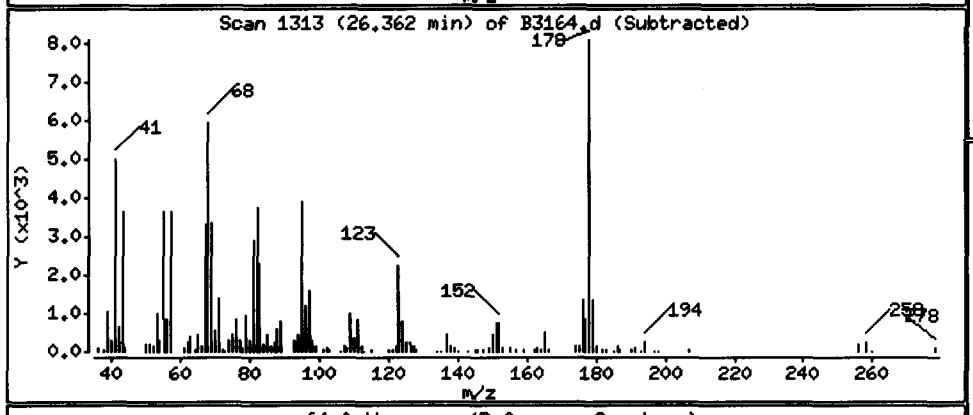
Operator: USER2 REG. GRP.

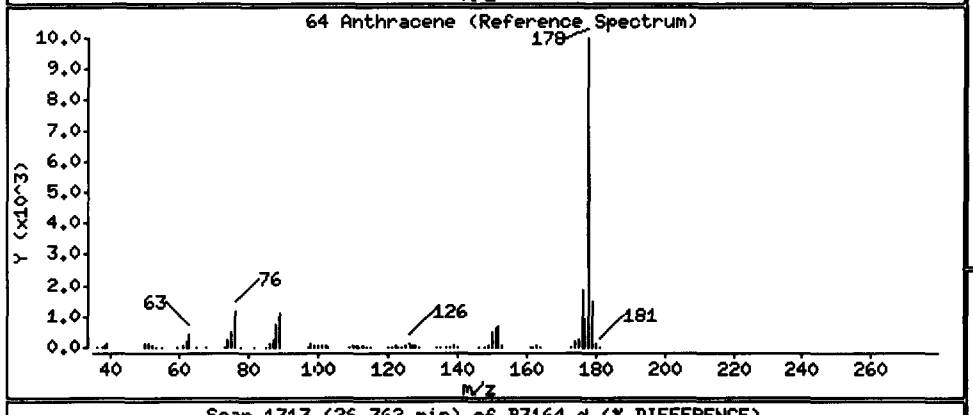
Column phase:

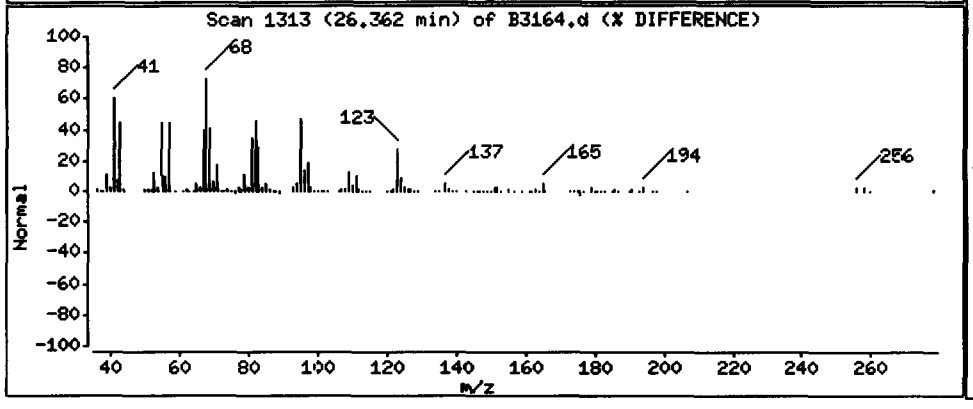
Column diameter: 0.25

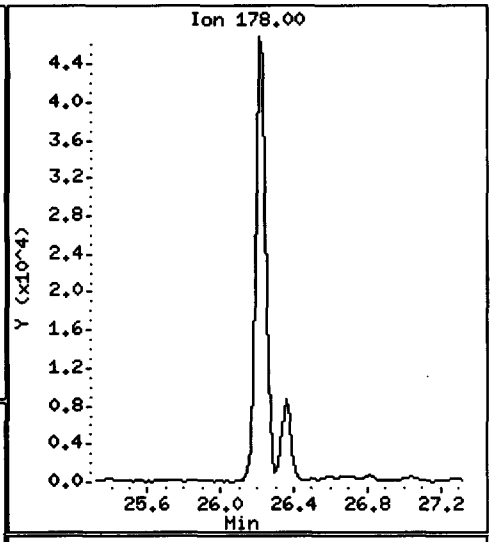
64 Anthracene

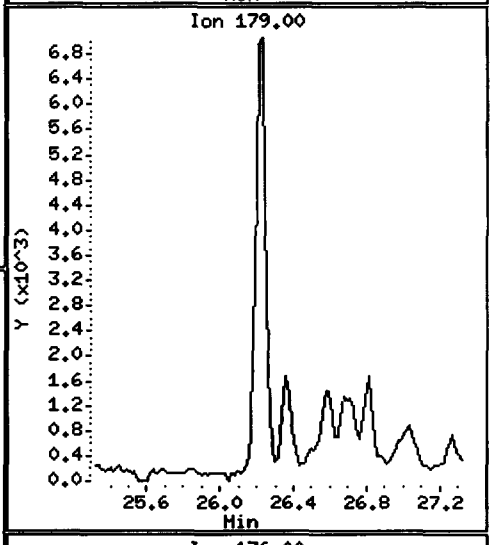


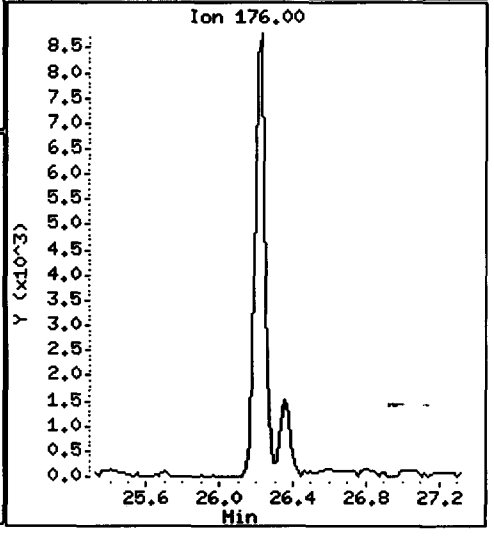












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

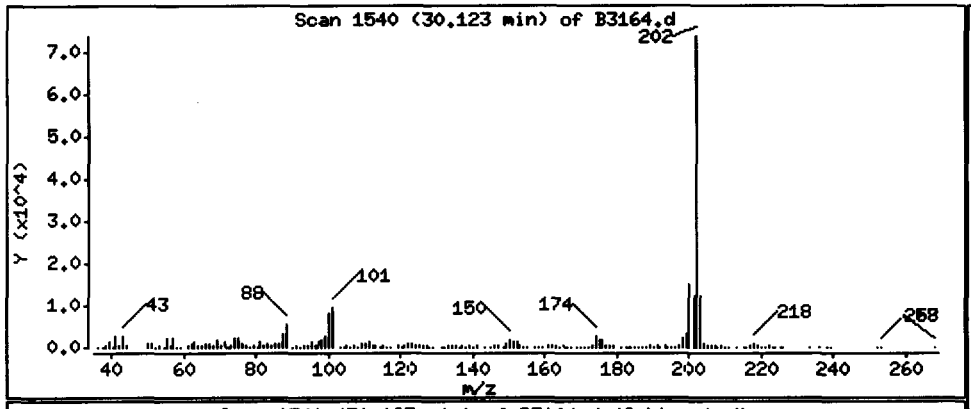
Volume Injected (uL): 2.0

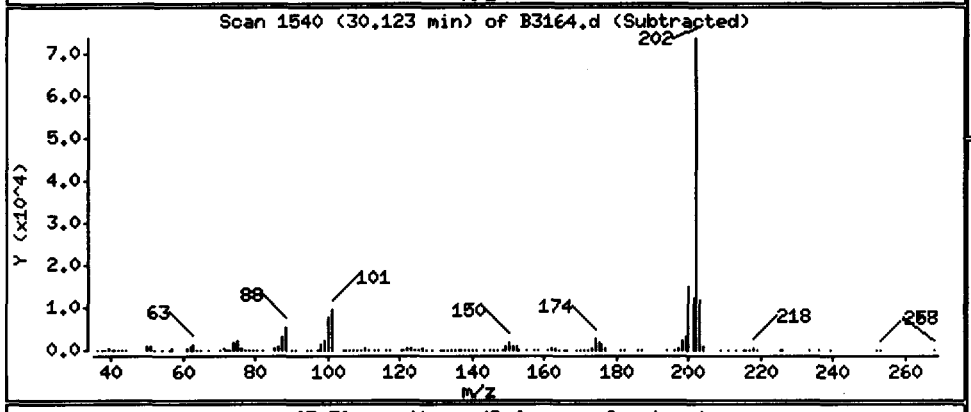
Operator: USER2 REG. GRP.

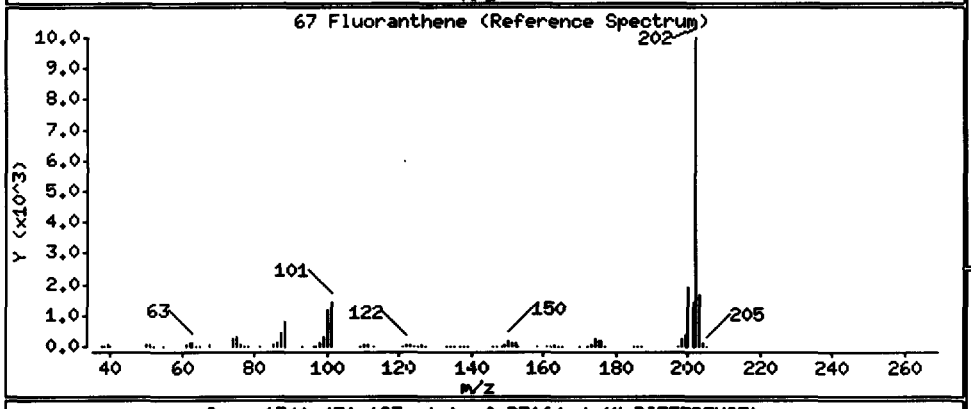
Column phase:

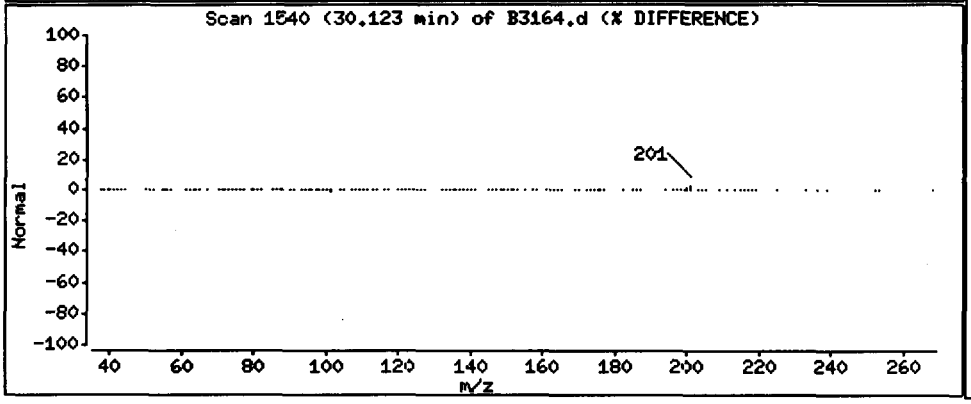
Column diameter: 0.25

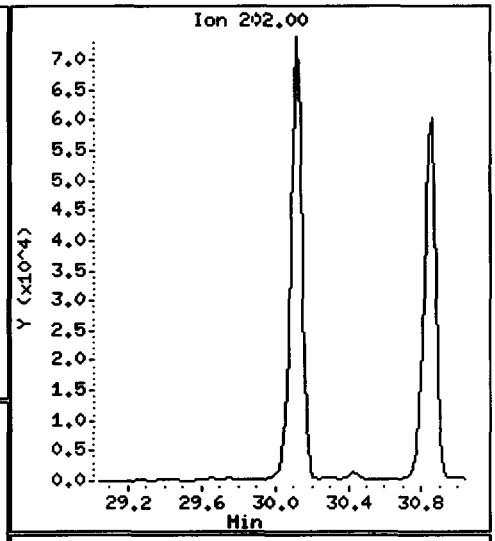
67 Fluoranthene

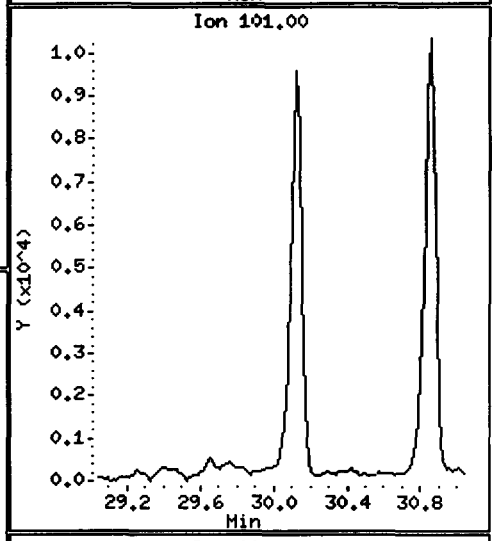


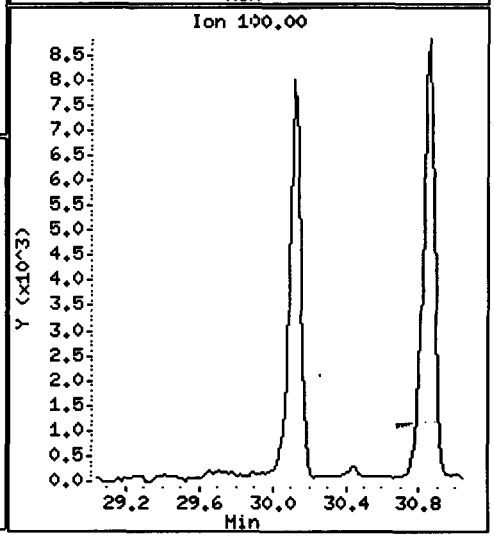












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

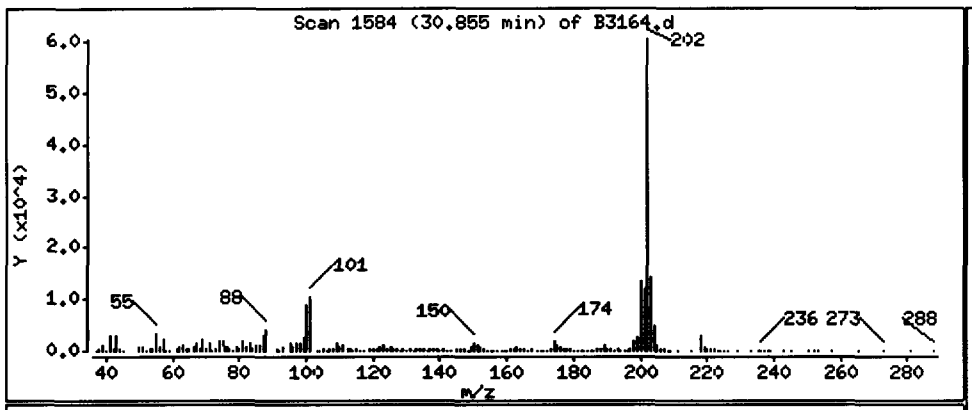
Volume Injected (uL): 2.0

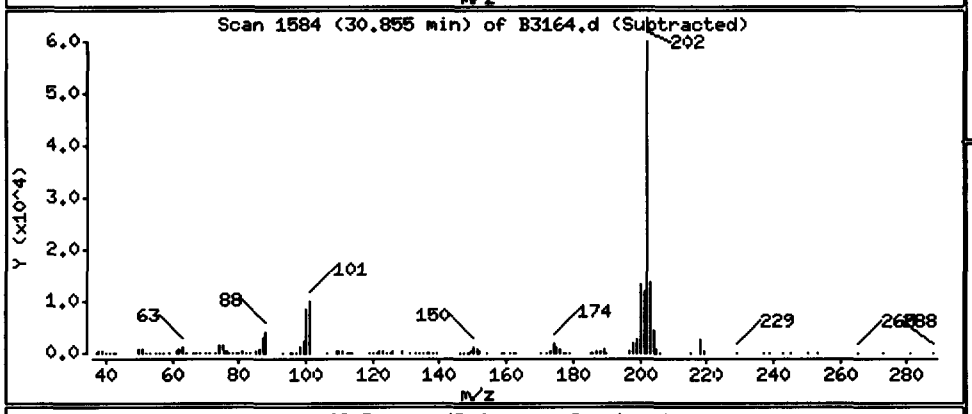
Operator: USER2 REG. GRP.

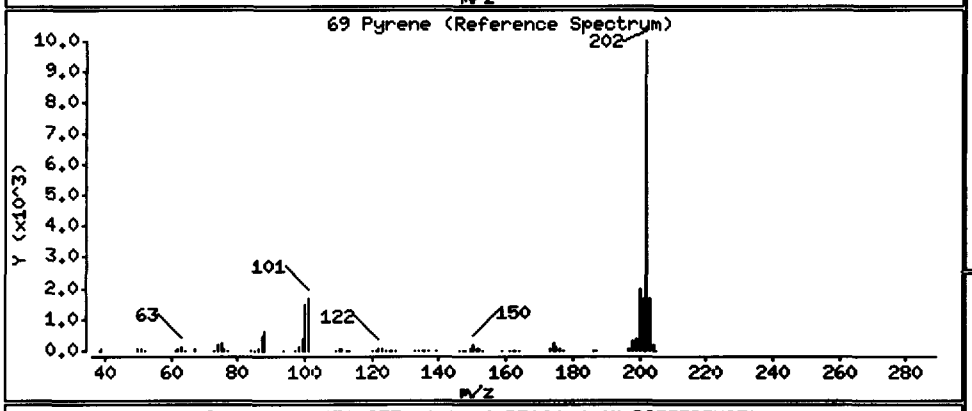
Column phase:

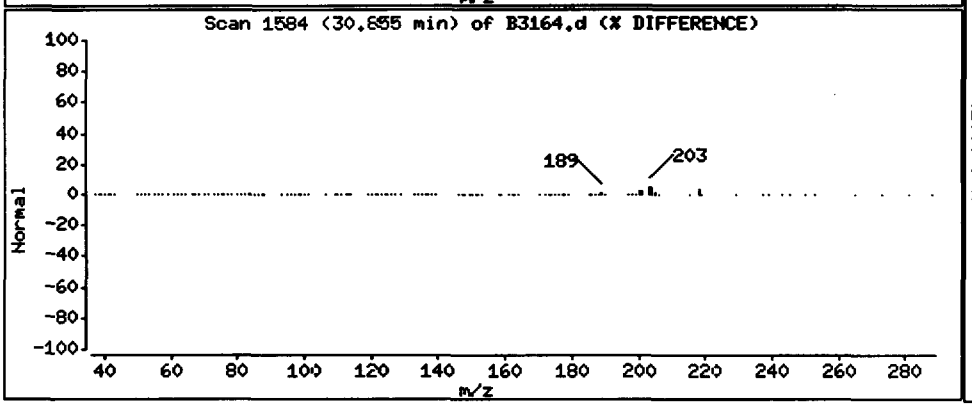
Column diameter: 0.25

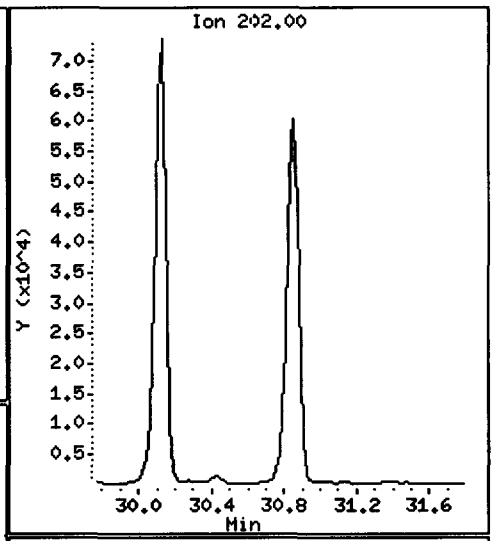
69 Pyrene

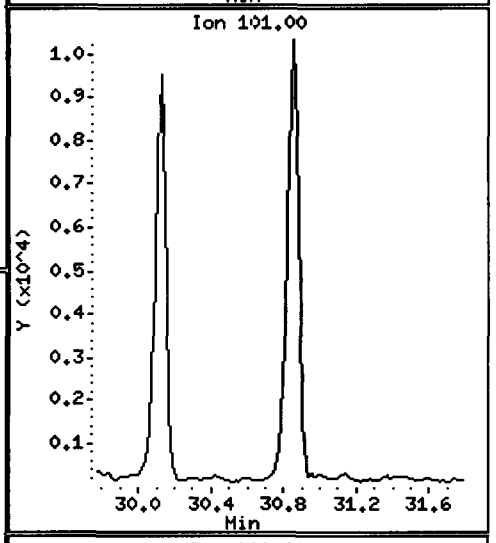


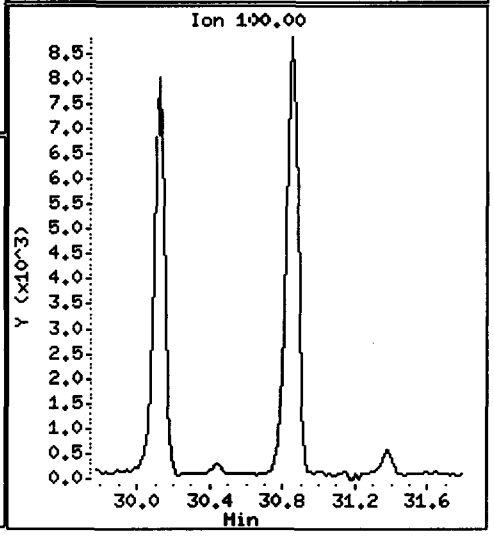












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

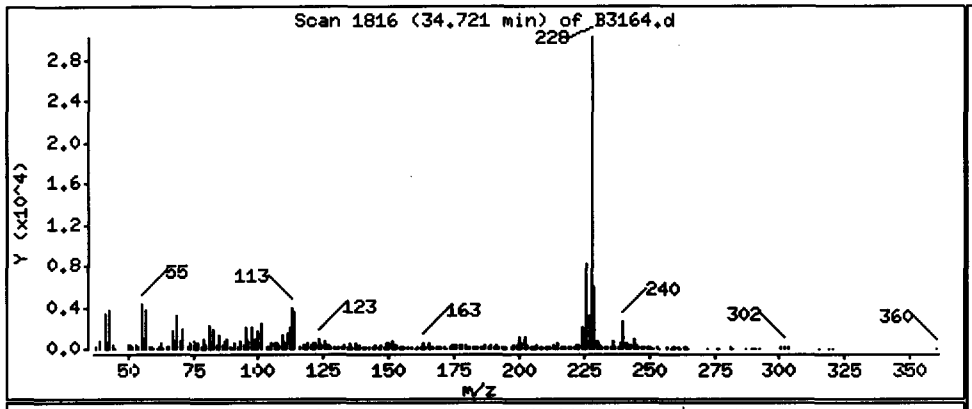
Volume Injected (uL): 2.0

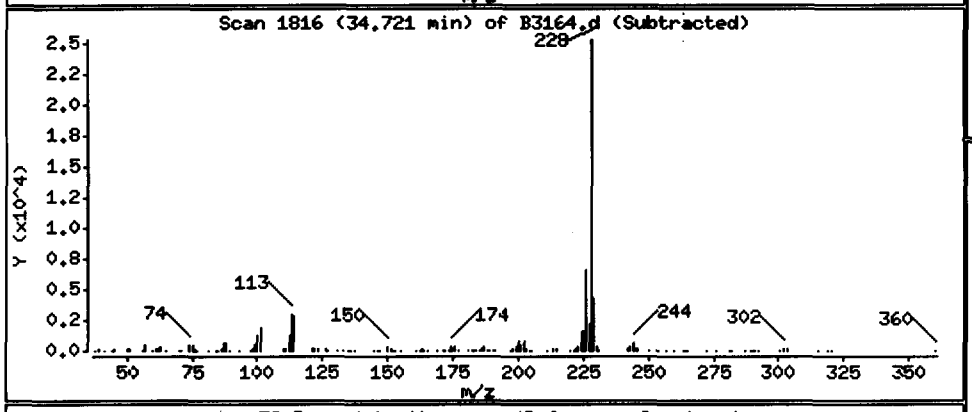
Operator: USER2 REG. GRP.

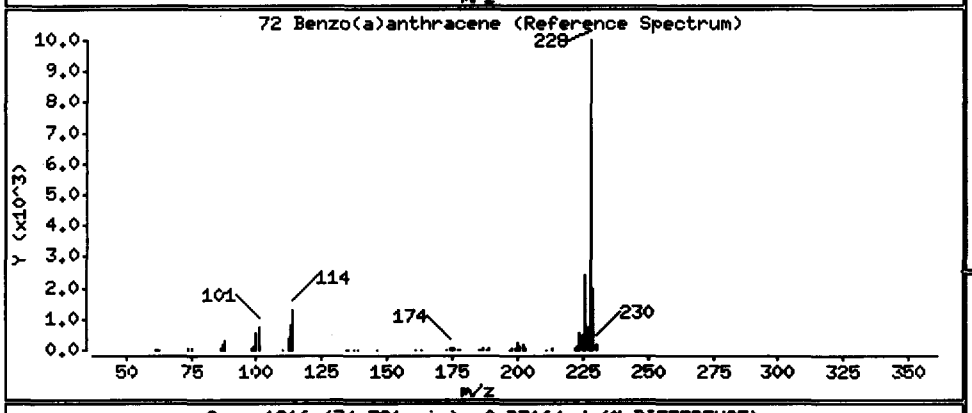
Column phase:

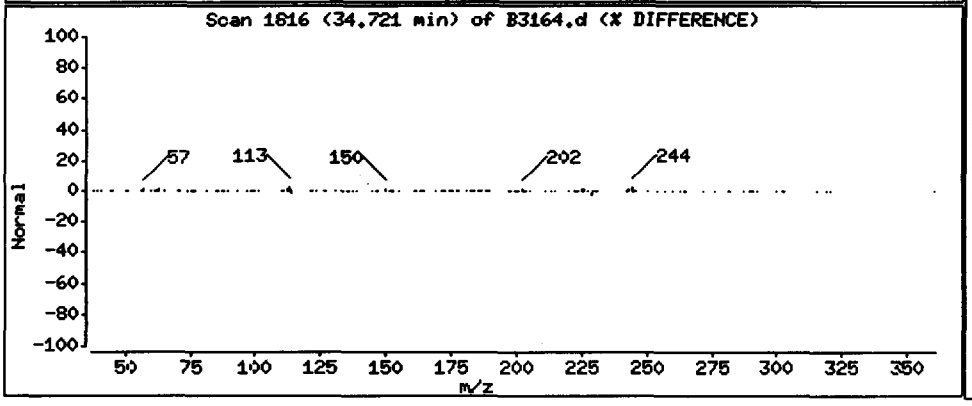
Column diameter: 0.25

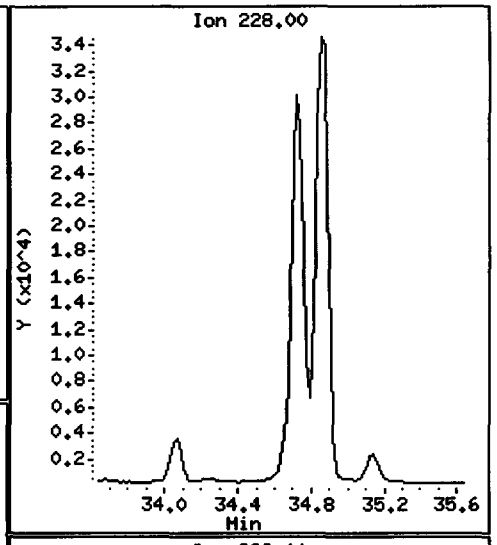
72 Benzo(a)anthracene

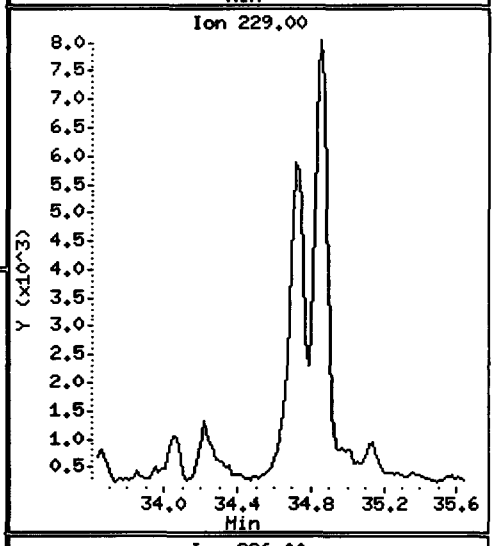


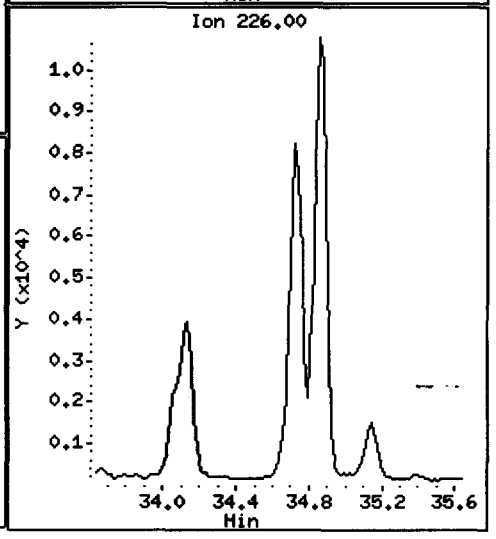












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

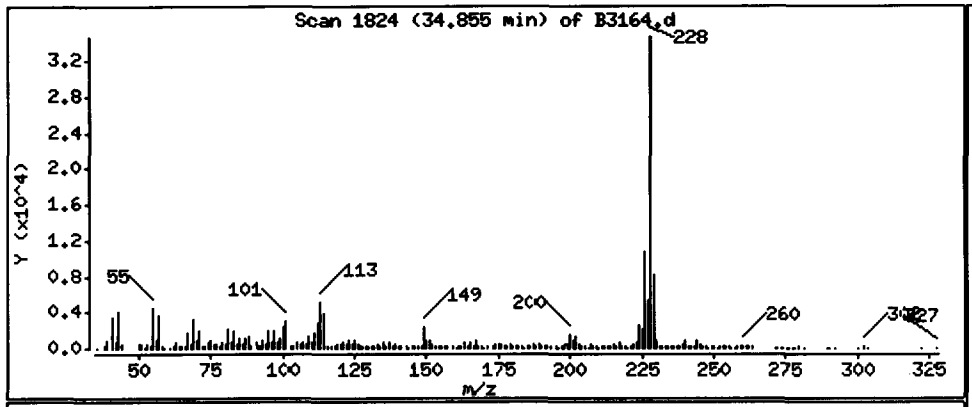
Volume Injected (uL): 2.0

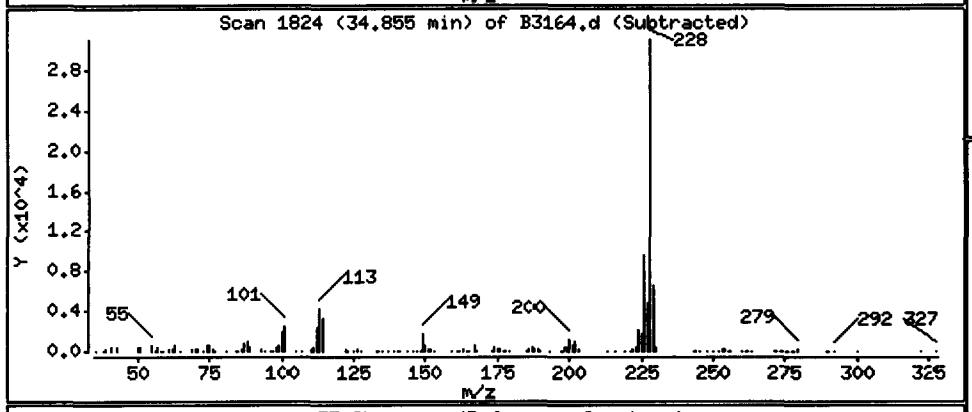
Operator: USER2 REG. GRP.

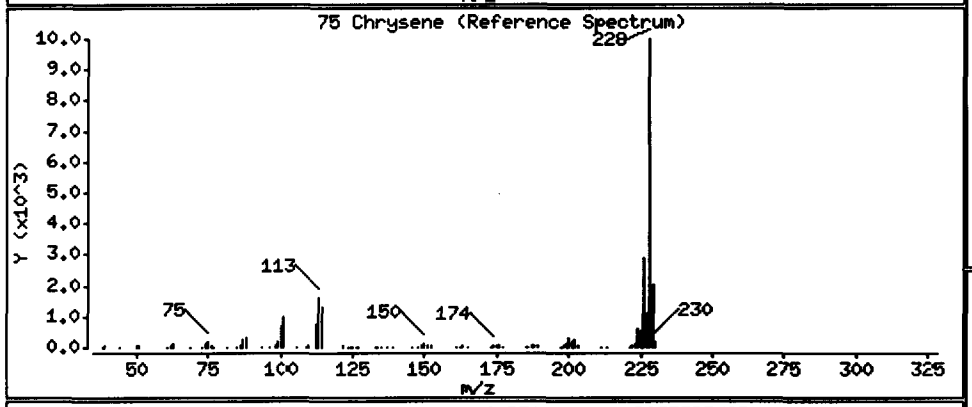
Column phase:

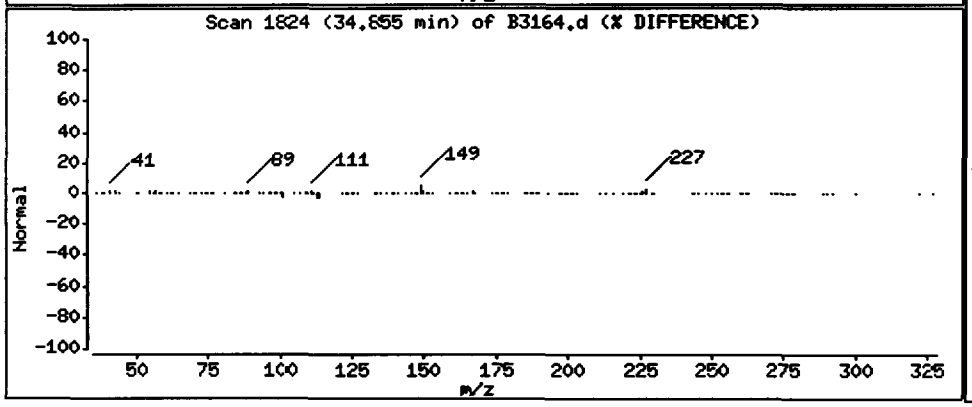
Column diameter: 0.25

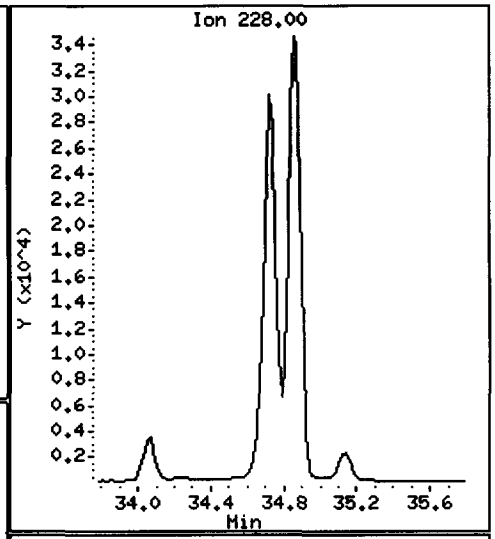
75 Chrysene

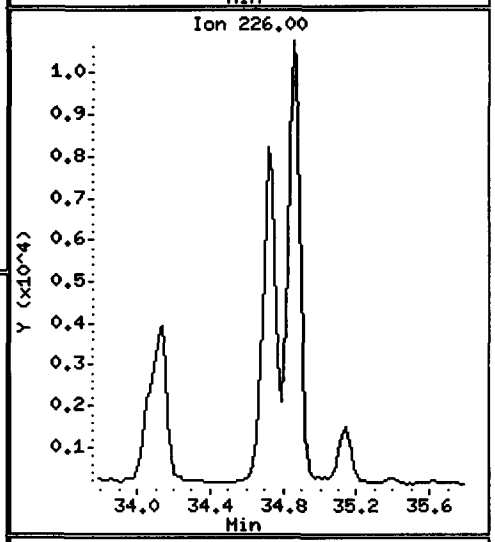


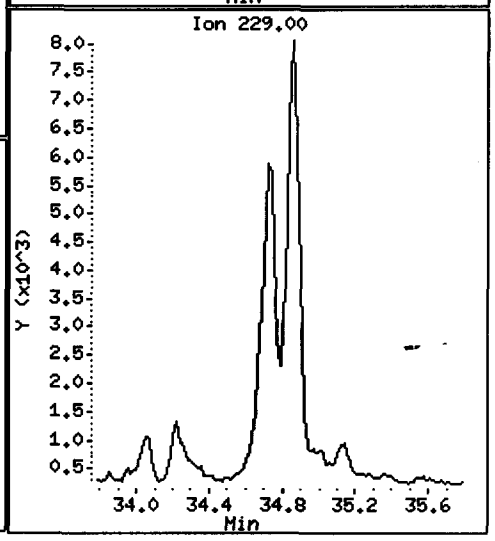












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

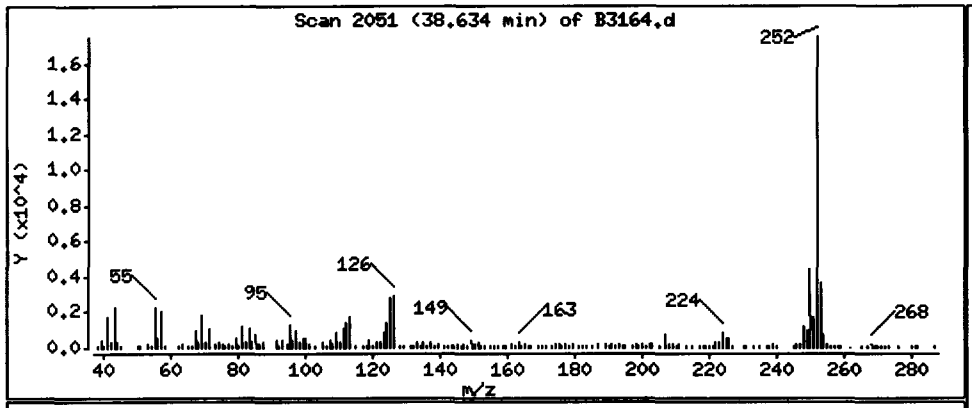
Volume Injected (uL): 2.0

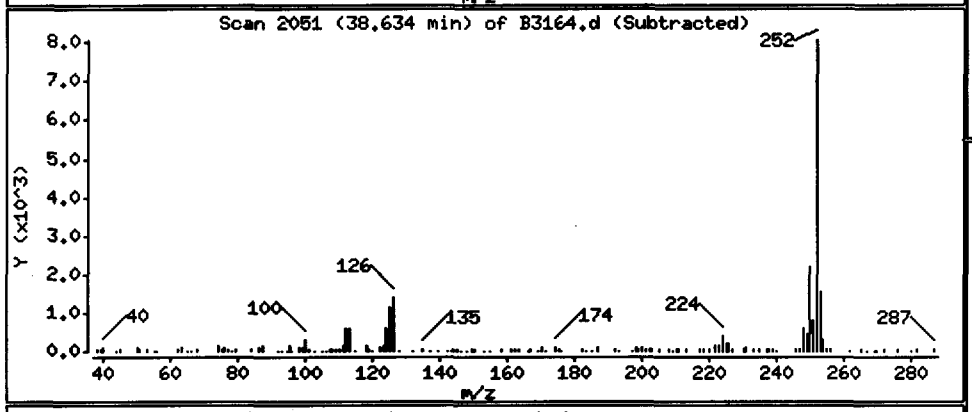
Operator: USER2 REG. GRP.

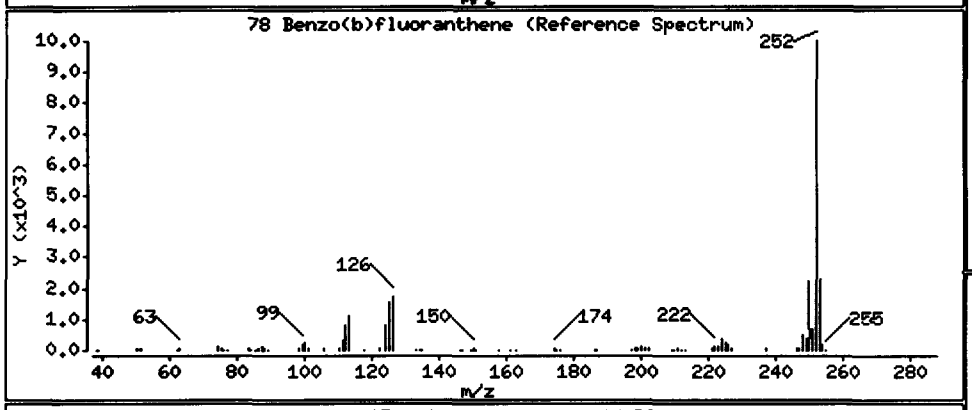
Column phase:

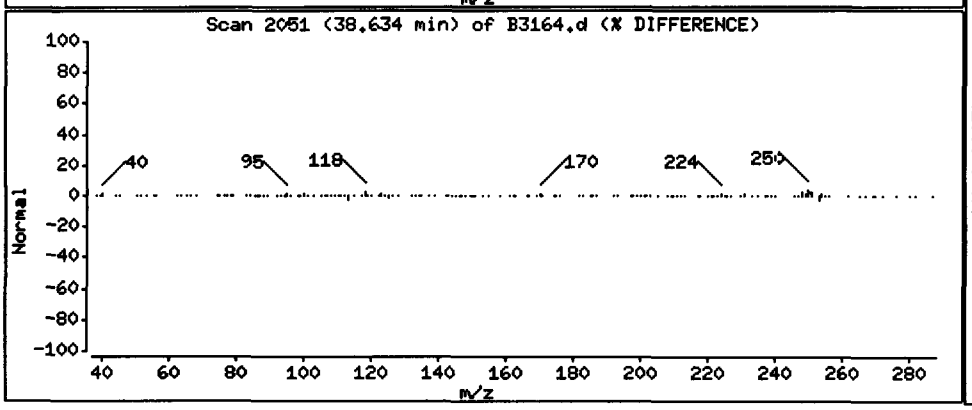
Column diameter: 0.25

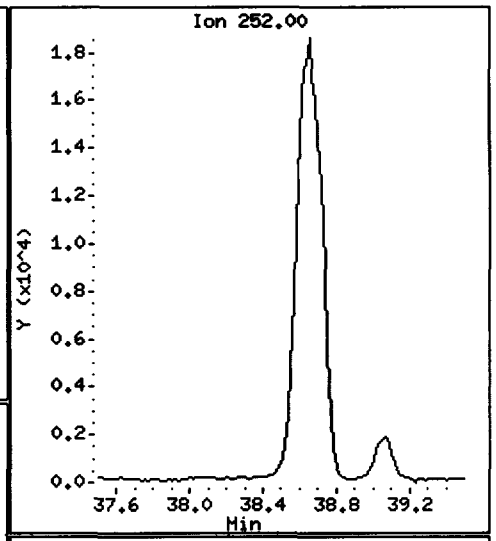
78 Benzo(b)fluoranthene

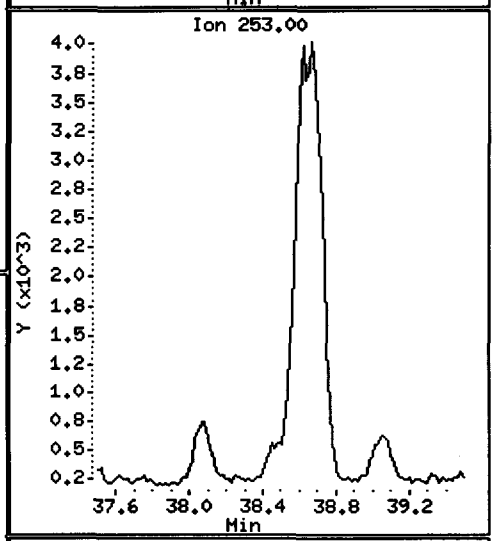


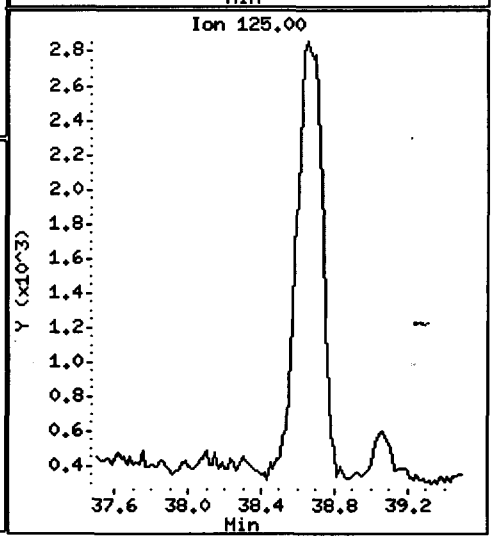












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

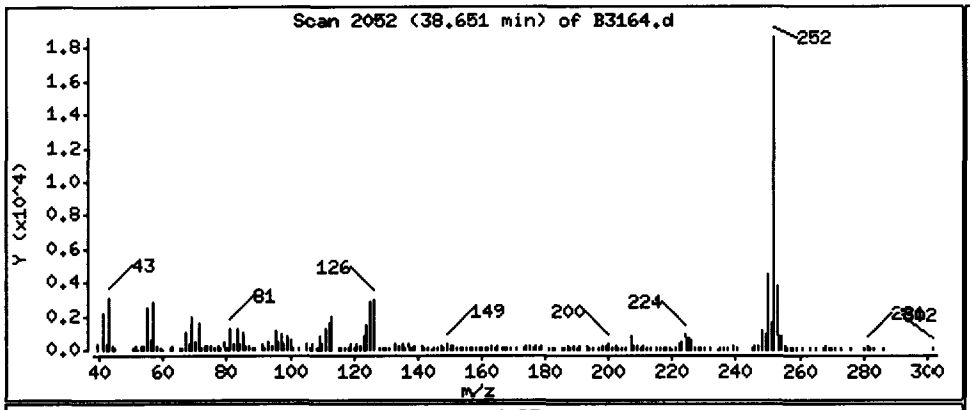
Volume Injected (uL): 2.0

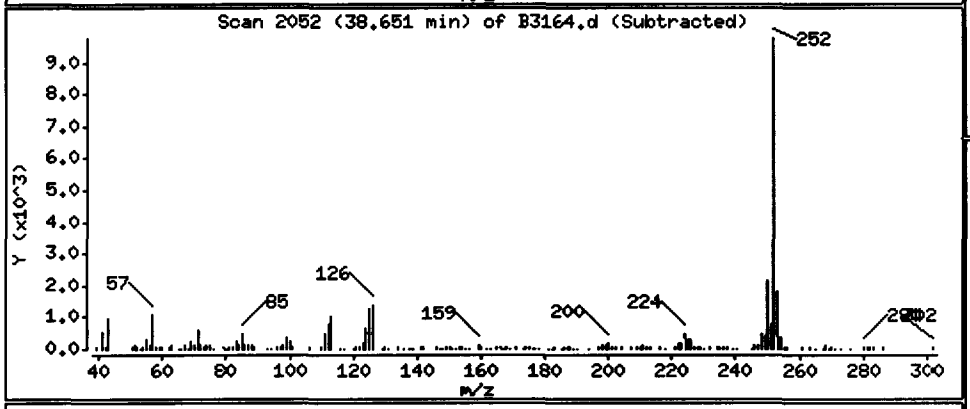
Operator: USER2 REG. GRP.

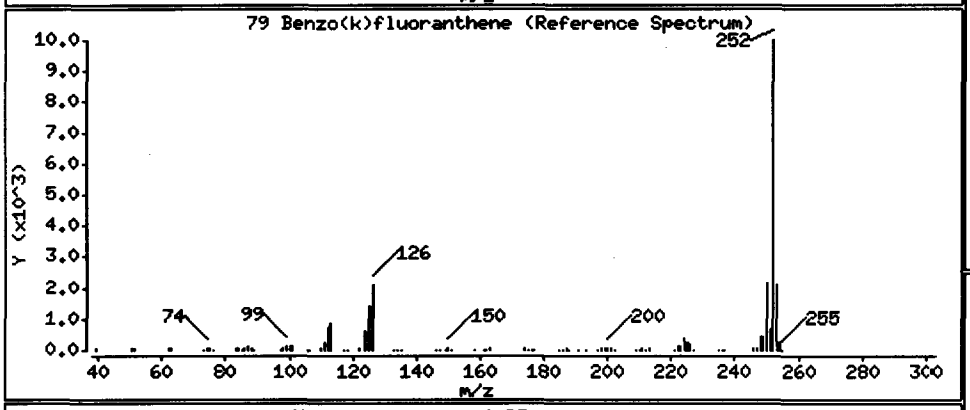
Column phase:

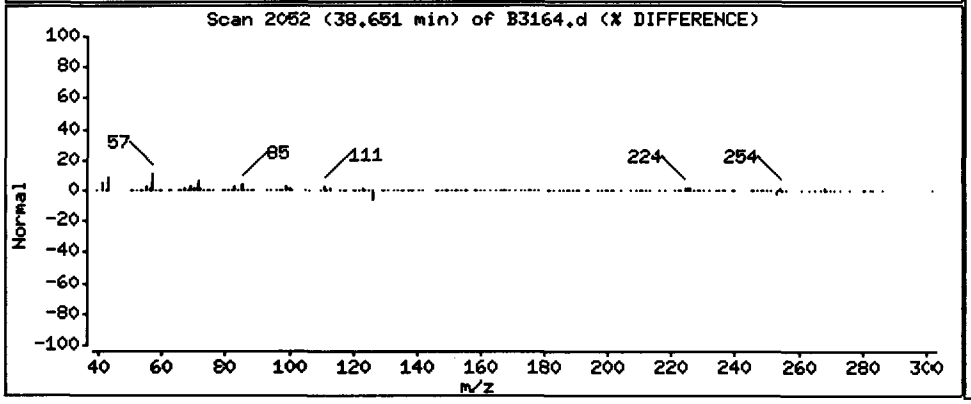
Column diameter: 0.25

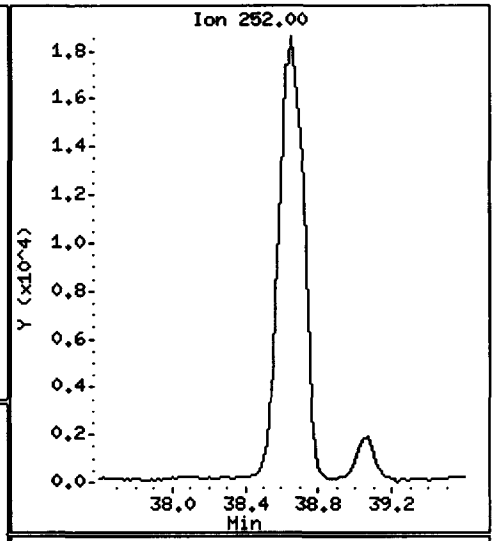
79 Benzo(k)fluoranthene

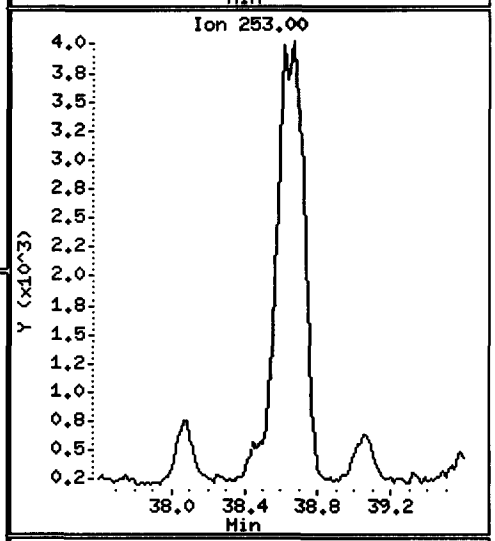


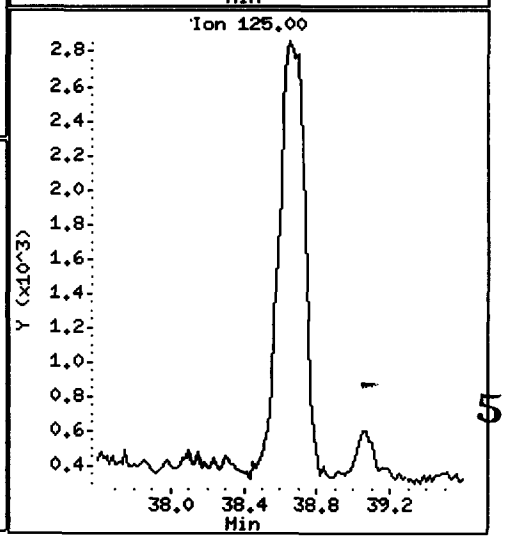












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

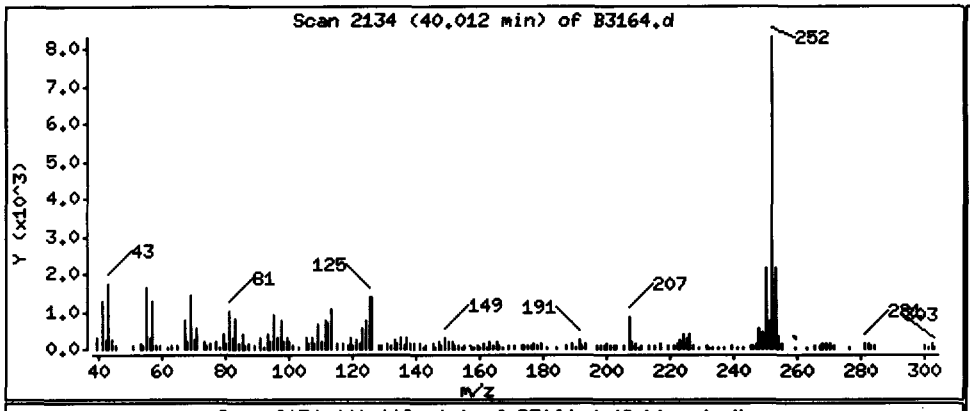
Volume Injected (uL): 2.0

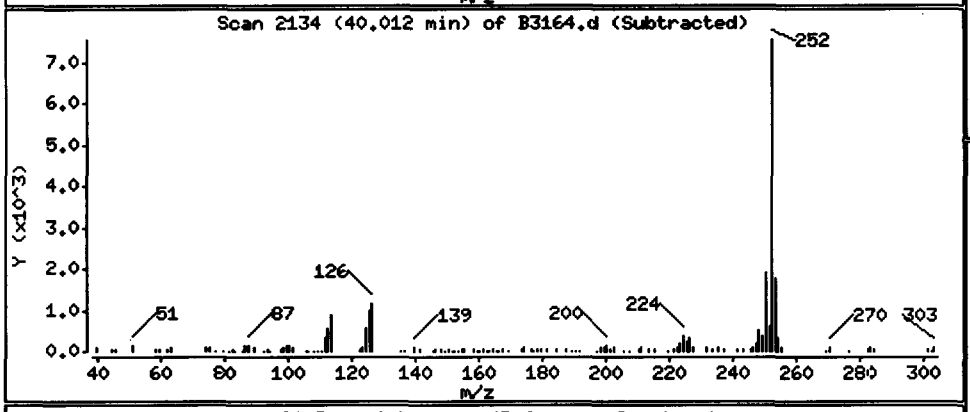
Operator: USER2 REG. GRP.

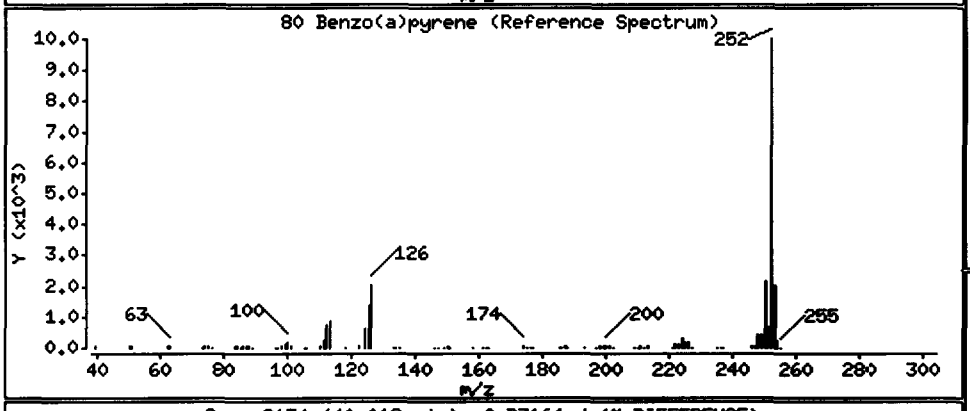
Column phase:

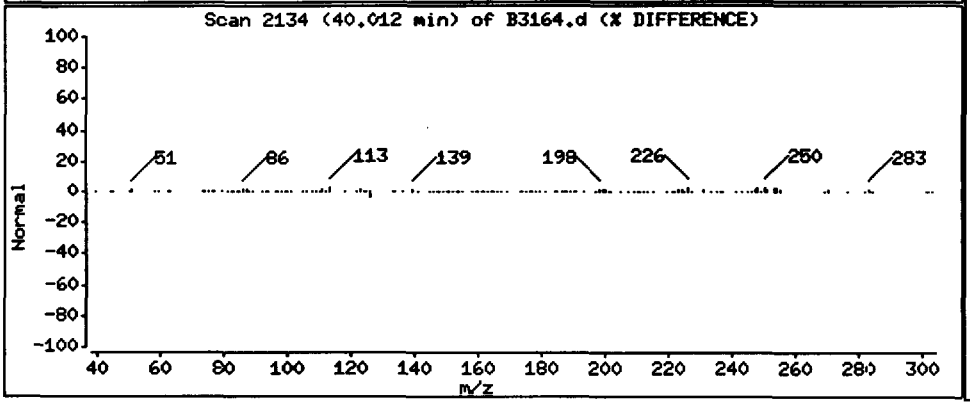
Column diameter: 0.25

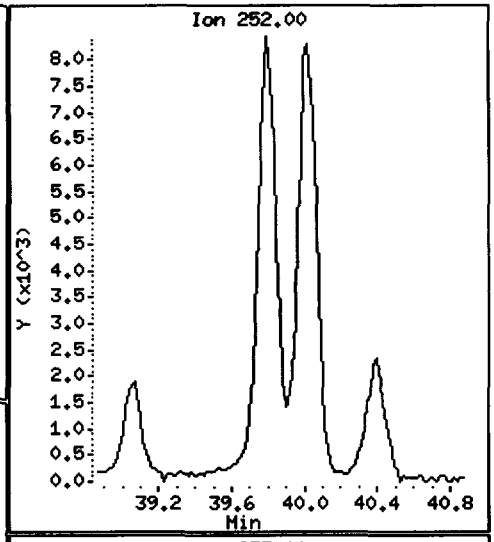
80 Benzo(a)pyrene

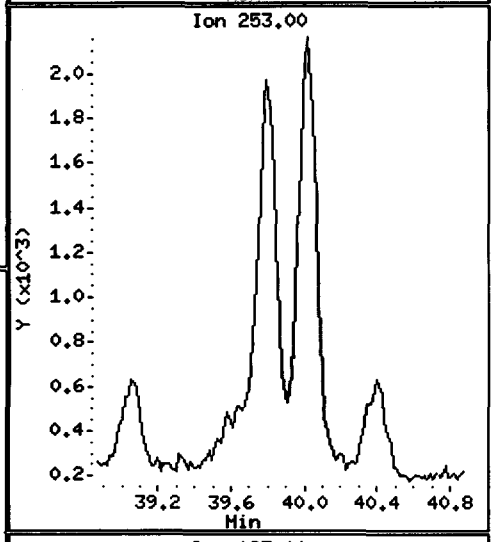


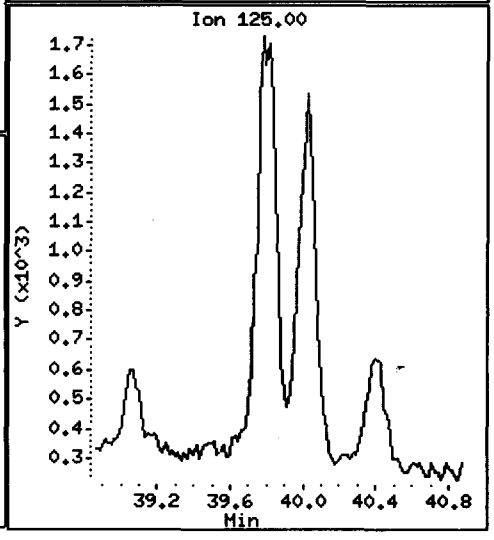












58

Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

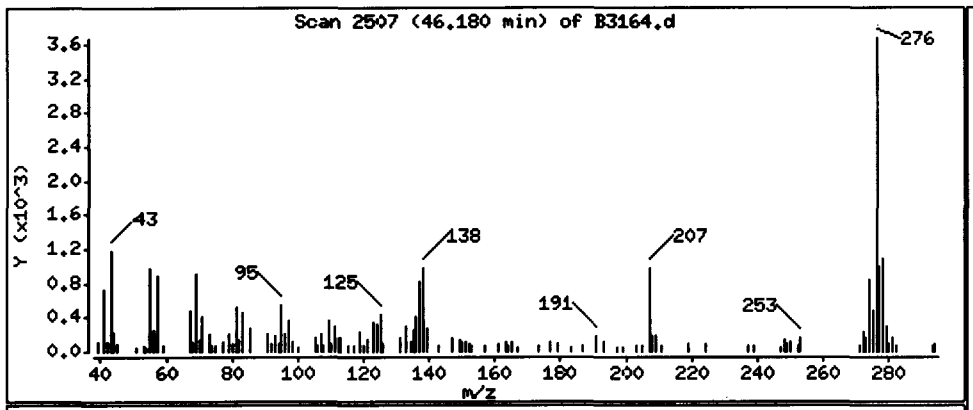
Volume Injected (uL): 2.0

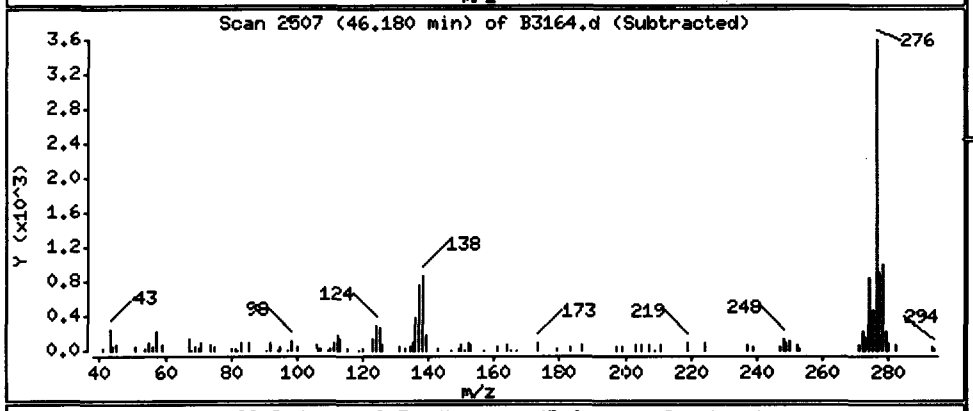
Operator: USER2 REG. GRP.

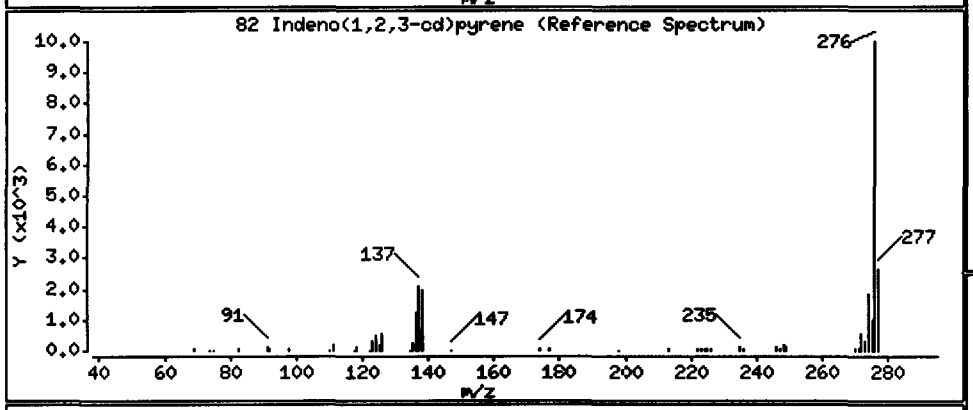
Column phase:

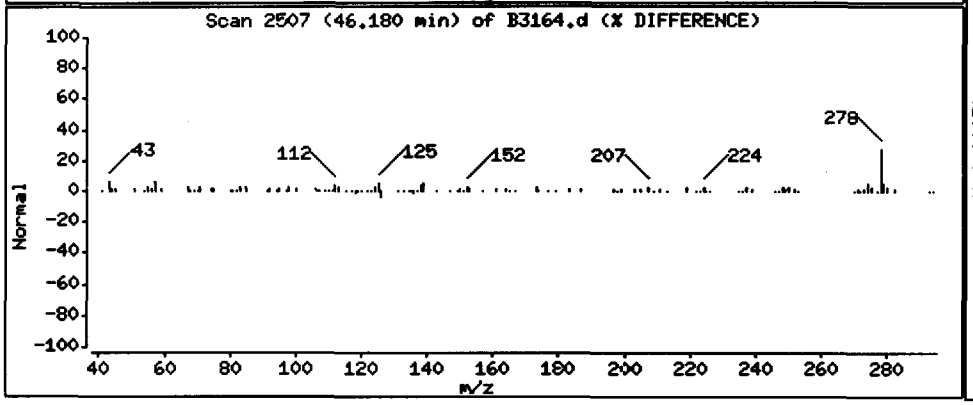
Column diameter: 0.25

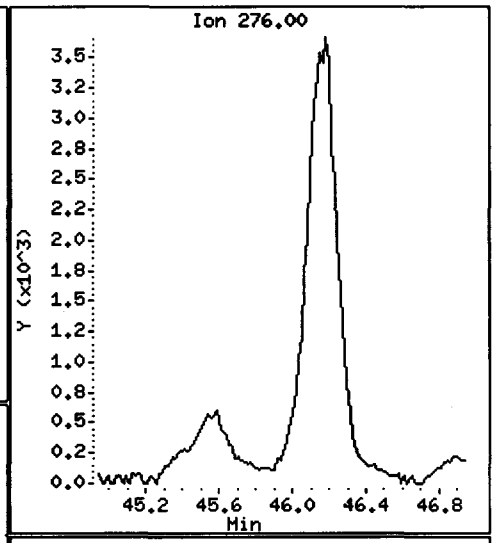
82 Indeno(1,2,3-cd)pyrene

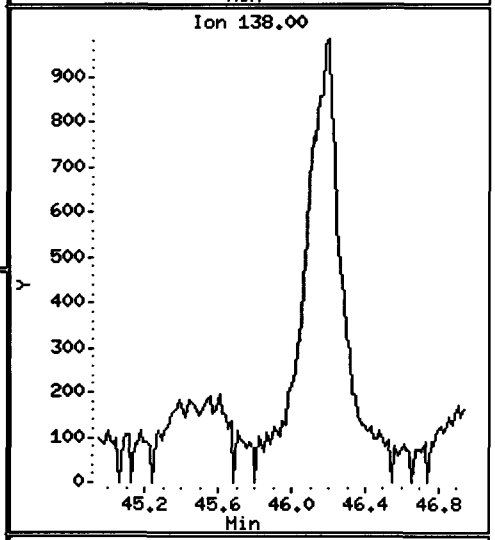


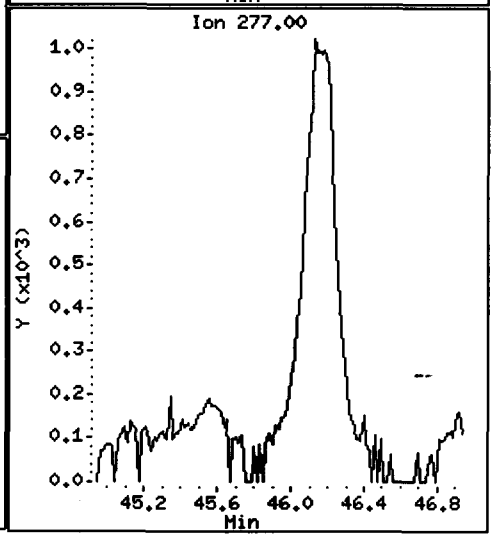












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

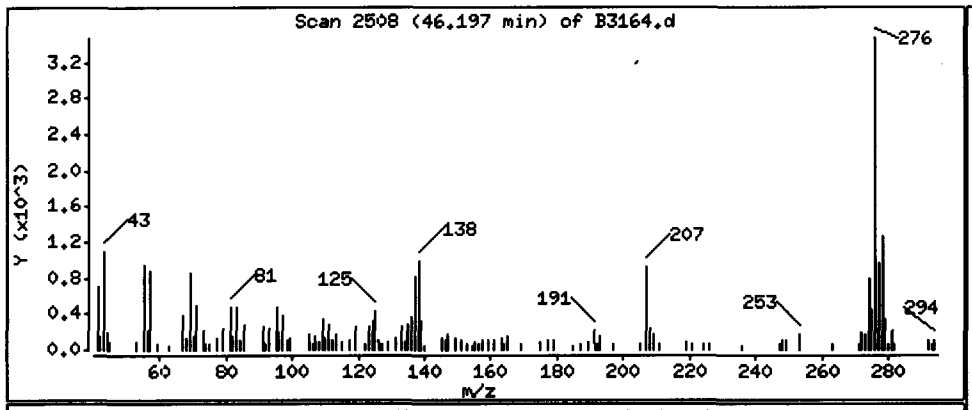
Volume Injected (uL): 2.0

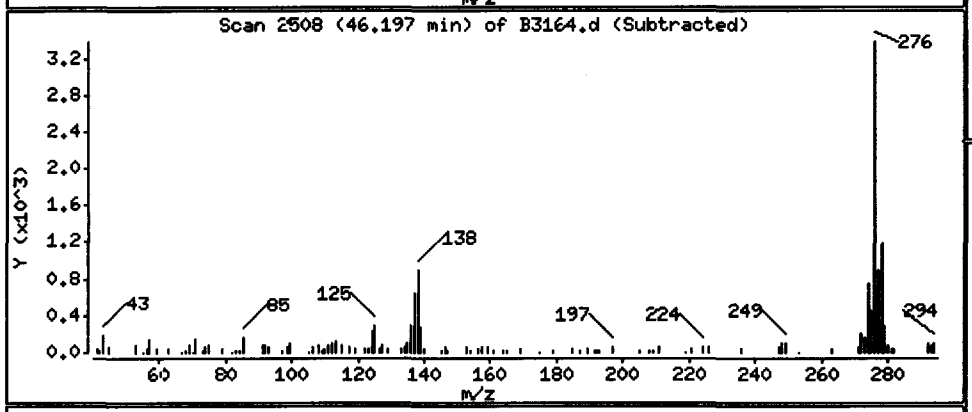
Operator: USER2 REG. GRP.

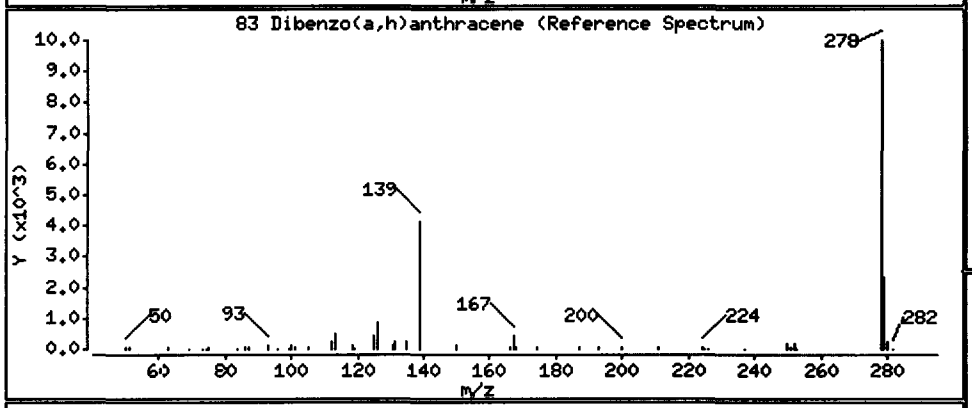
Column phase:

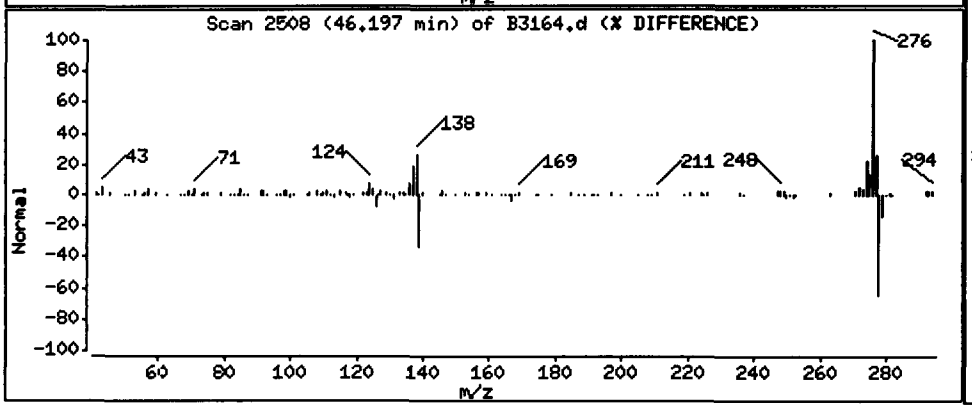
Column diameter: 0.25

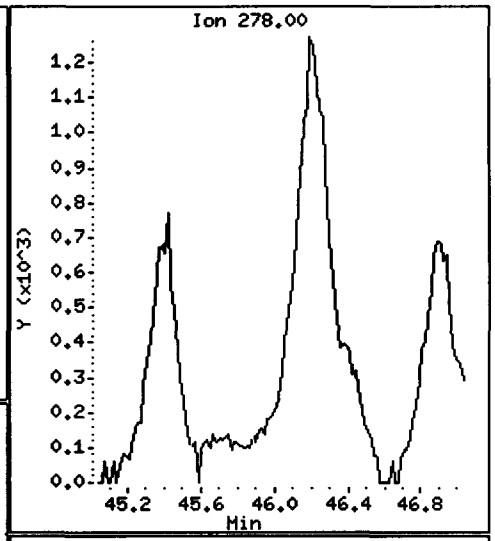
83 Dibenzo(a,h)anthracene

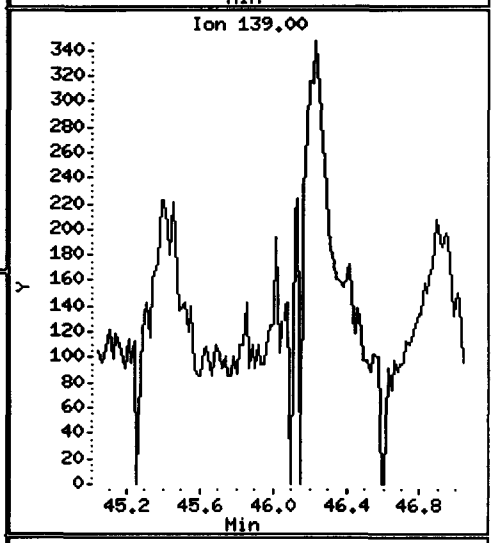


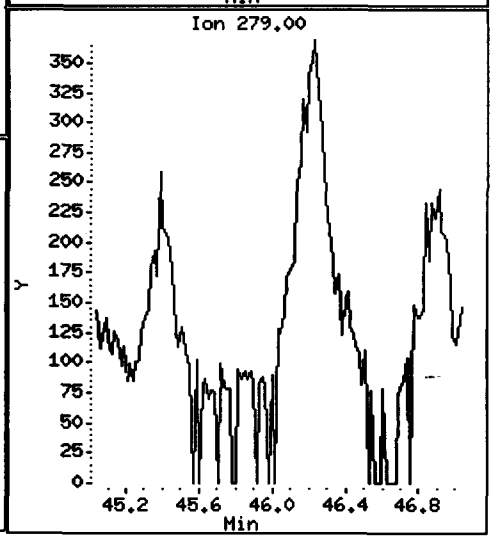












Data File: /var/chem/7002B.i/970430422r.b/B3164.d

Date : 01-MAY-97 04:46:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65107.01

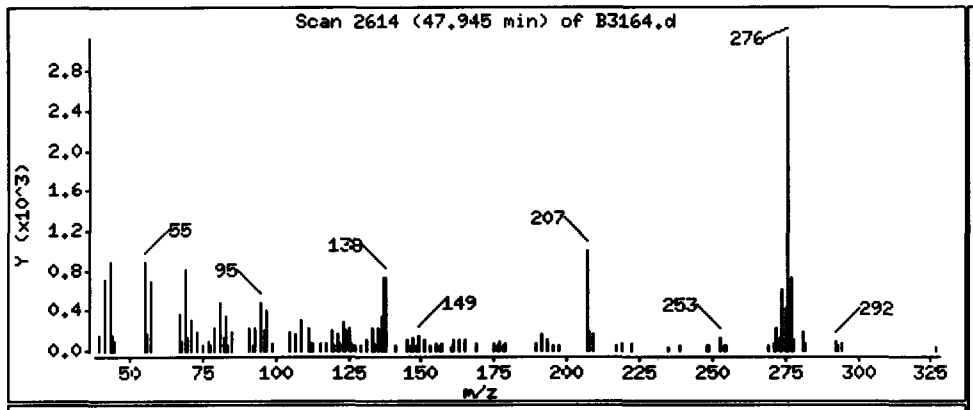
Volume Injected (uL): 2.0

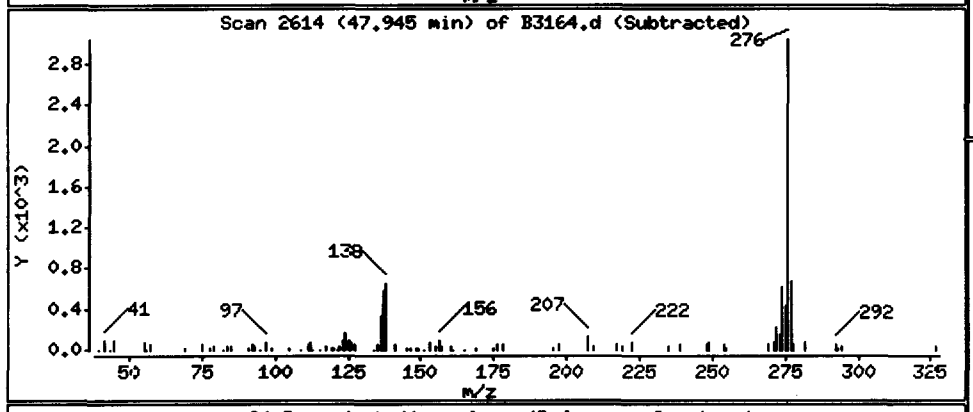
Operator: USER2 REG. GRP.

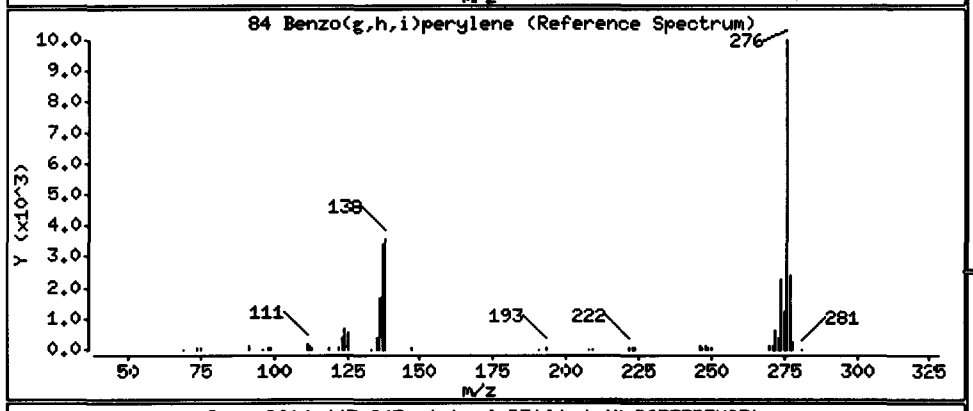
Column phase:

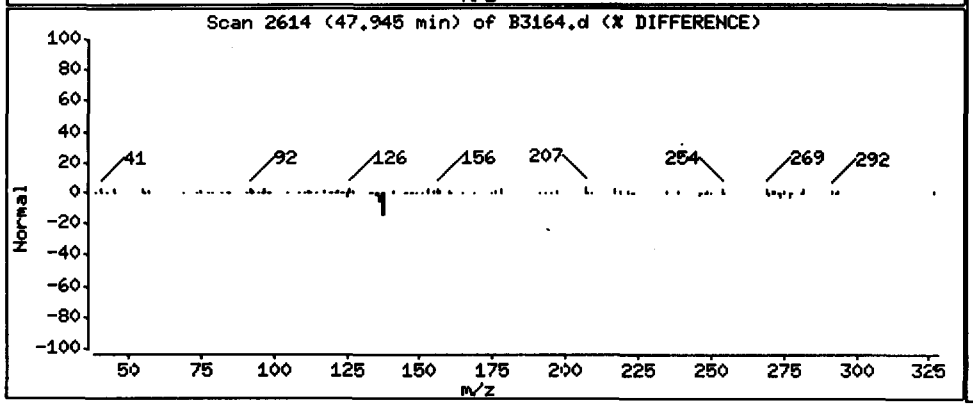
Column diameter: 0.25

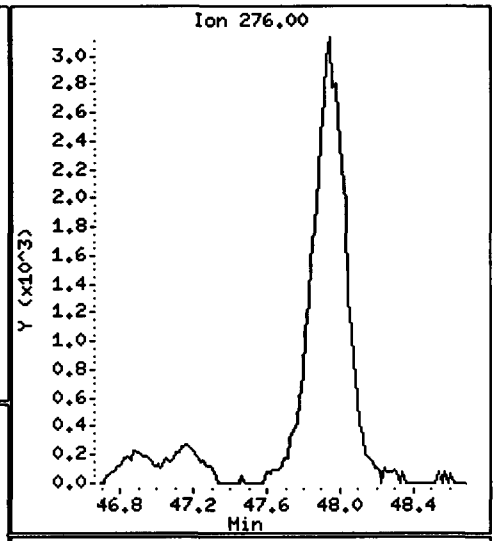
84 Benzo(g,h,i)perylene

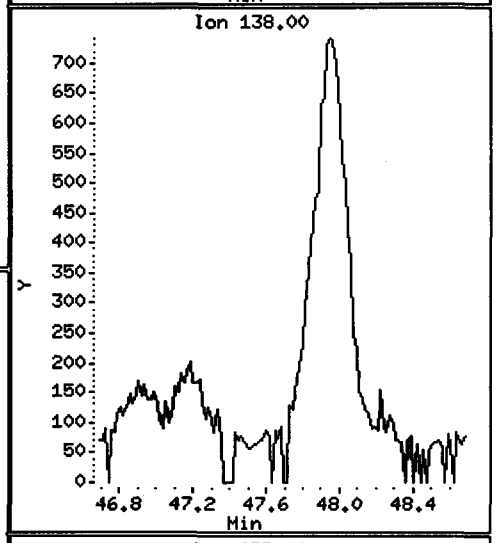


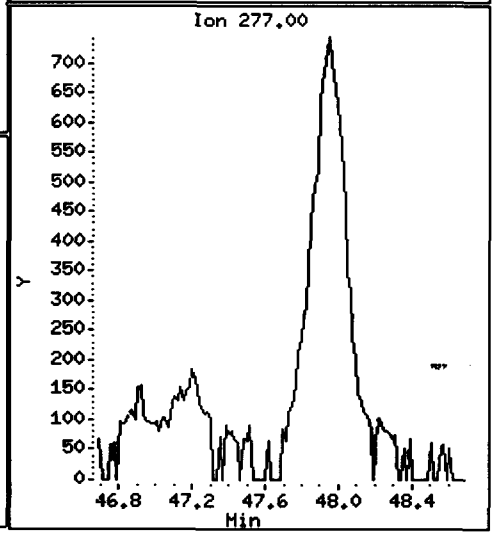












1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q203

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: 65108

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3165

Level: (low/med) LOW Date Received: 04/22/97

% Moisture: 36 decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/97

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	520	U
91-57-6	2-Methylnaphthalene	520	U
91-58-7	2-Chloronaphthalene	520	U
208-96-8	Acenaphthylene	520	U
83-32-9	Acenaphthene	520	U
86-73-7	Fluorene	520	U
85-01-8	Phenanthrene	520	U
120-12-7	Anthracene	520	U
206-44-0	Fluoranthene	73	J
129-00-0	Pyrene	75	J
56-55-3	Benzo(a)Anthracene	520	U
218-01-9	Chrysene	68	J
205-99-2	Benzo(b)Fluoranthene	280	J
207-08-9	Benzo(k)Fluoranthene	520	U
50-32-8	Benzo(a)Pyrene	57	J
193-39-5	Indeno(1,2,3-cd)Pyrene	520	U
53-70-3	Dibenz(a,h)Anthracene	520	U
191-24-2	Benzo(g,h,i)Perylene	520	U

(1) - Cannot be separated from Diphenylamine

Data File: /var/chem/7002B.i/970430422r.b/B3165.d

Date : 01-MAY-97 05:45:00

Client ID:

Instrument: 7002B.i

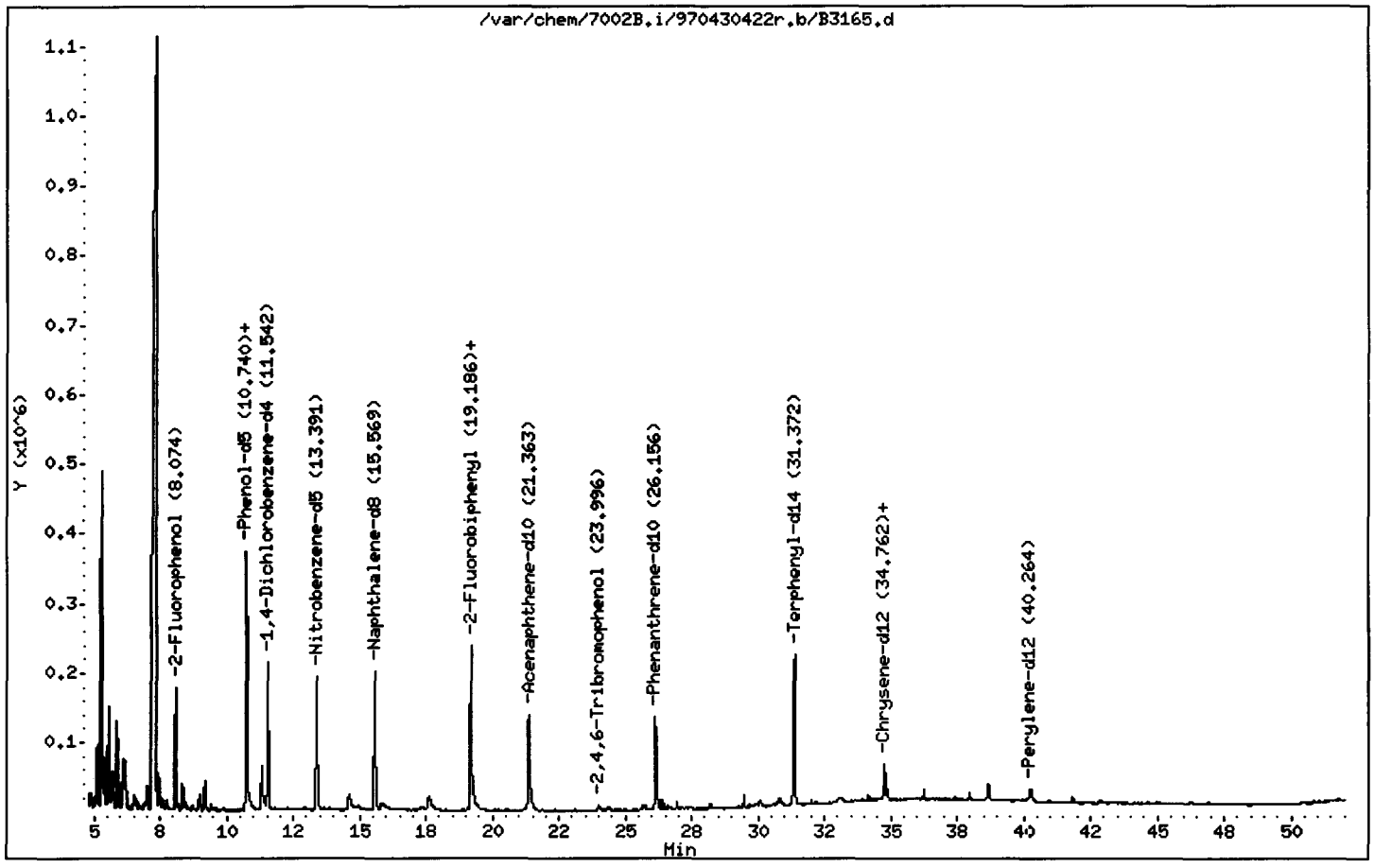
Sample Info: 9700.860 65108.01

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970430422r.b/B3165.d
Lab Smp Id:
Inj Date : 01-MAY-97 05:45:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : 9700.860 65108.01
Misc Info : [970430422R]{COBX71}970428480P,SBN_0A,DCE,4300 Q203 BTL#
Comment :
Method : /var/chem/7002B.i/970430422r.b/cobx71.m
Meth Date : 05-May-97 16:05:49 mscanlon Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

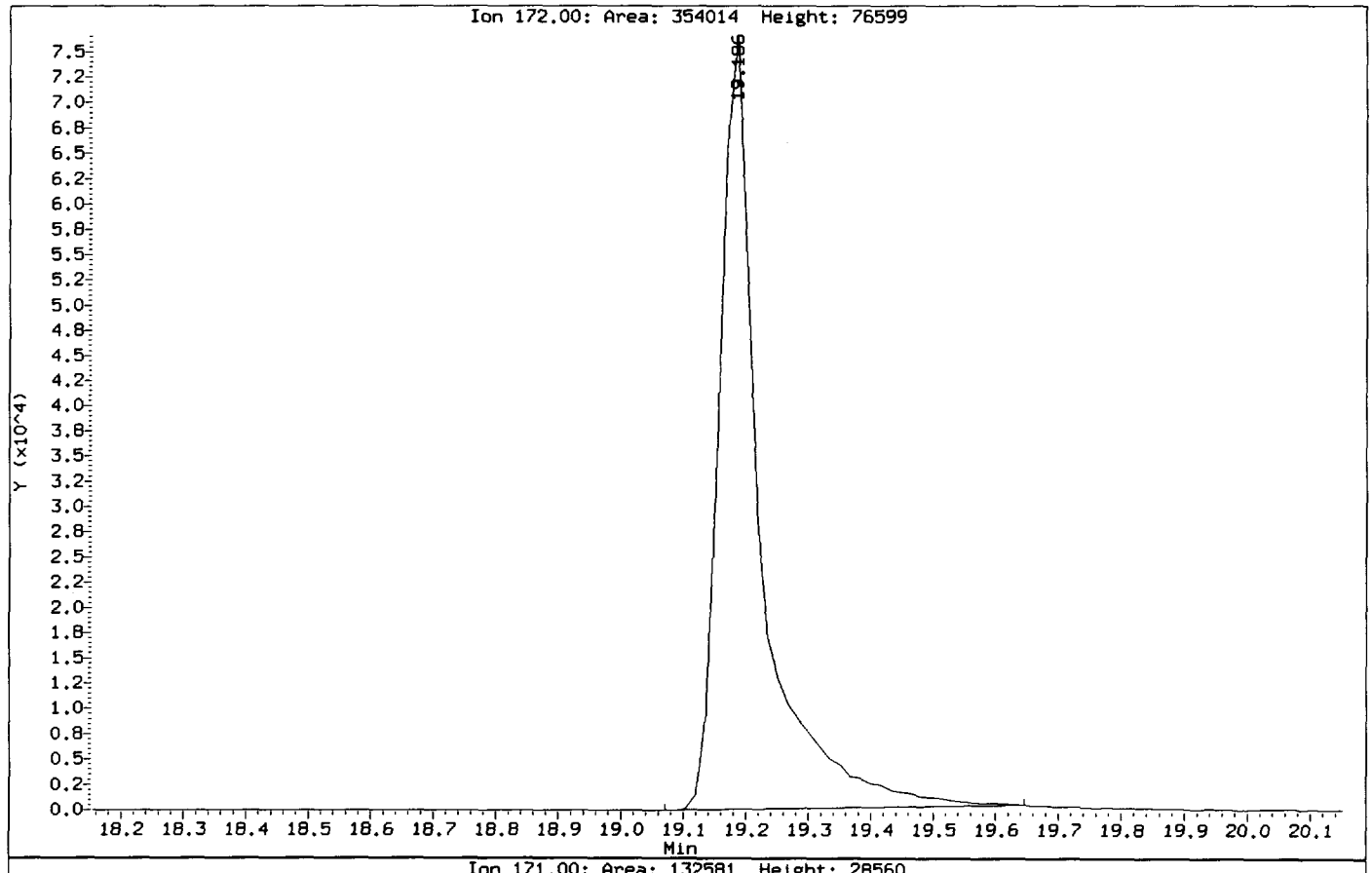
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 11 1,4-Dichlorobenzene-d4	152	11.542	11.485	(1.000)	95325	40.0	
$ 21 Nitrobenzene-d5	82	13.391	13.353	(0.860)	203716	51.9	866
* 30 Naphthalene-d8	136	15.569	15.547	(1.000)	305711	40.0	
$ 39 2-Fluorobiphenyl	172	19.186	19.149	(0.898)	354014	54.0	899(M)
* 45 Acenaphthene-d10	164	21.363	21.325	(1.000)	169761	40.0	
* 62 Phenanthrene-d10	188	26.140	26.104	(1.000)	222885	40.0	
67 Fluoranthene	202	30.107	30.044	(1.152)	13839	2.80	46.7(a)
69 Pyrene	202	30.829	30.780	(0.887)	11978	2.90	48.4(a)
$ 70 Terphenyl-d14	244	31.372	31.303	(0.902)	261248	79.6	1330
* 74 Chrysene-d12	240	34.762	34.704	(1.000)	72969	40.0	
75 Chrysene	228	34.828	34.786	(1.002)	6118	2.63	43.9(a)
78 Benzo(b)fluoranthene	252	38.634	38.498	(0.960)	6969	10.9	182(a)
80 Benzo(a)pyrene	252	39.770	39.872	(0.988)	2826	2.20	36.7(aH)
* 81 Perylene-d12	264	40.264	40.134	(1.000)	48764	40.0	

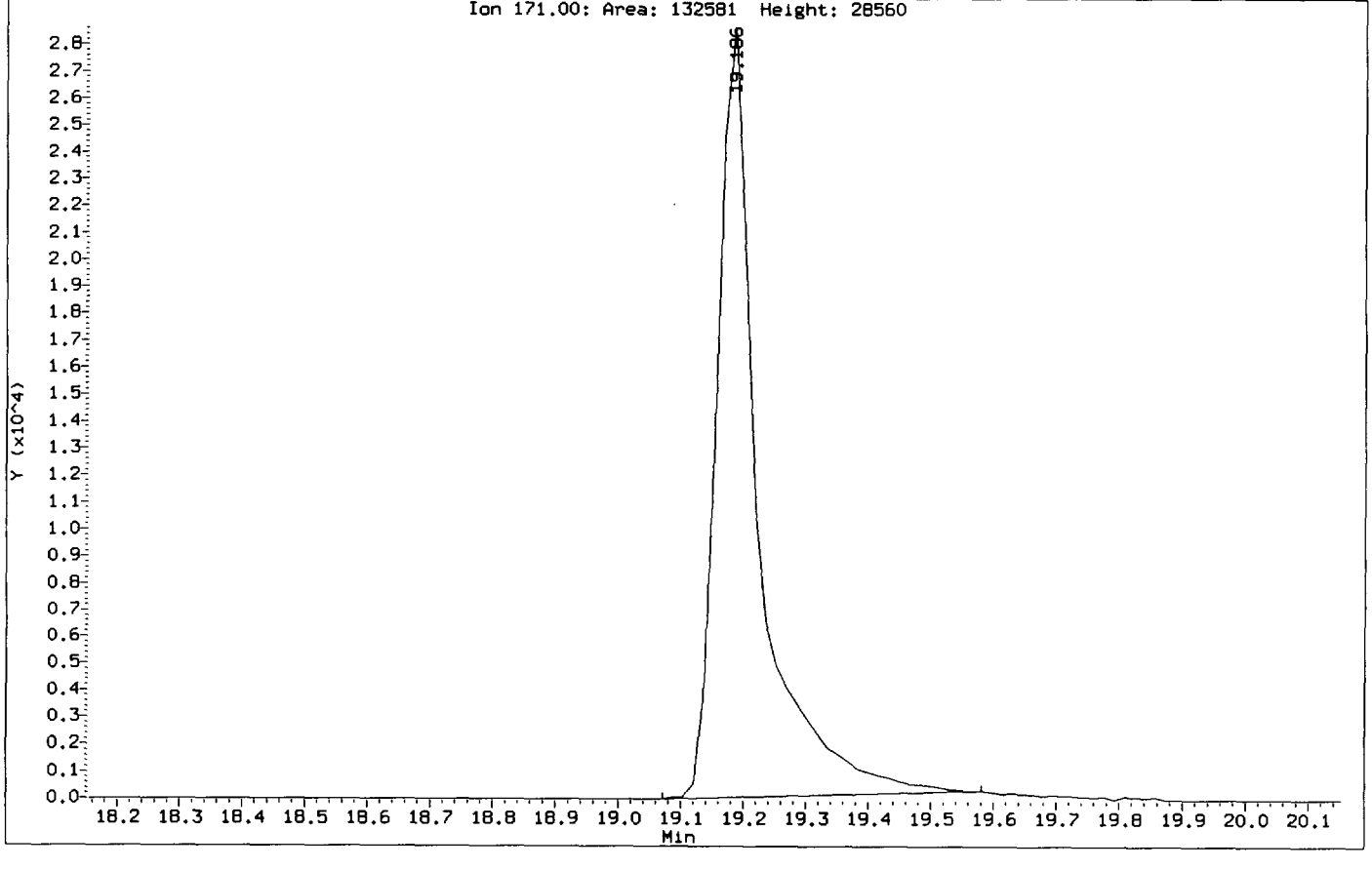
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/7002B.i/970430422r.b/B3165.d
Injection Date: 01-MAY-97 05:45:00
Instrument: 7002B.i
Client Sample ID:

Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8





Data File: /var/chem/7002B.i/970430422r.b/B3165.d

Date : 01-MAY-97 05:45:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65108.01

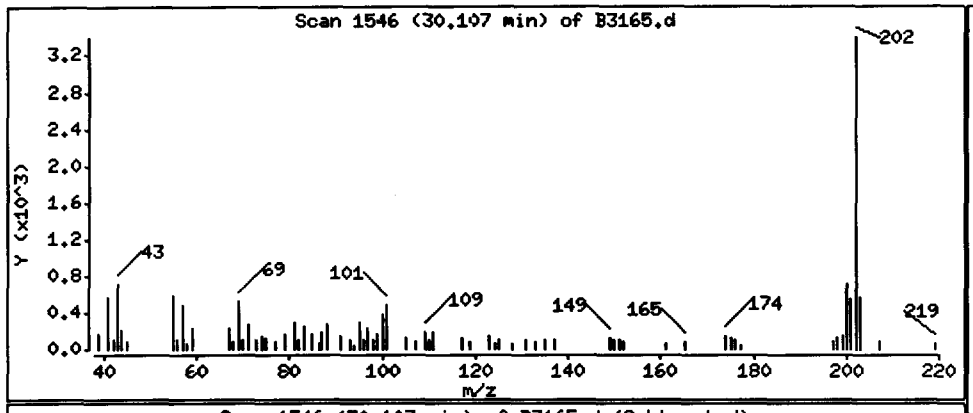
Volume Injected (uL): 2.0

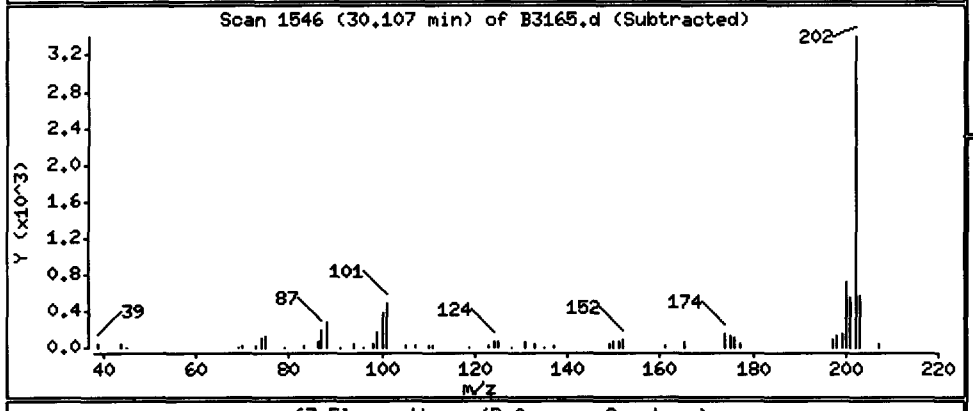
Operator: USER2 REG. GRP.

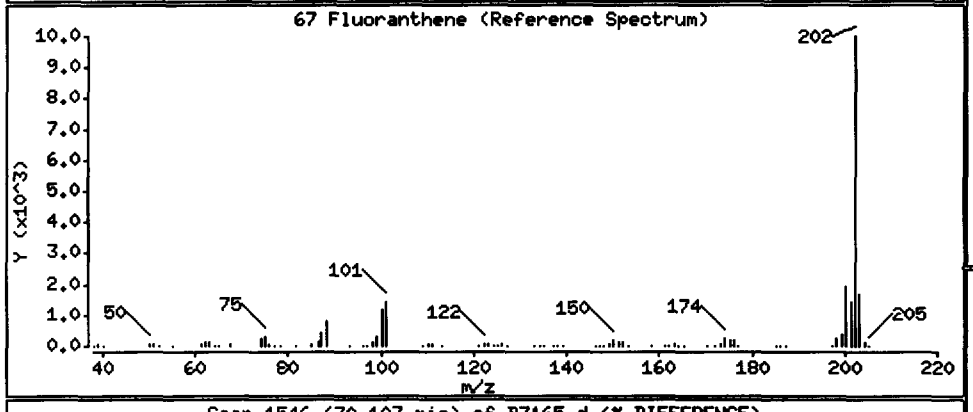
Column phase:

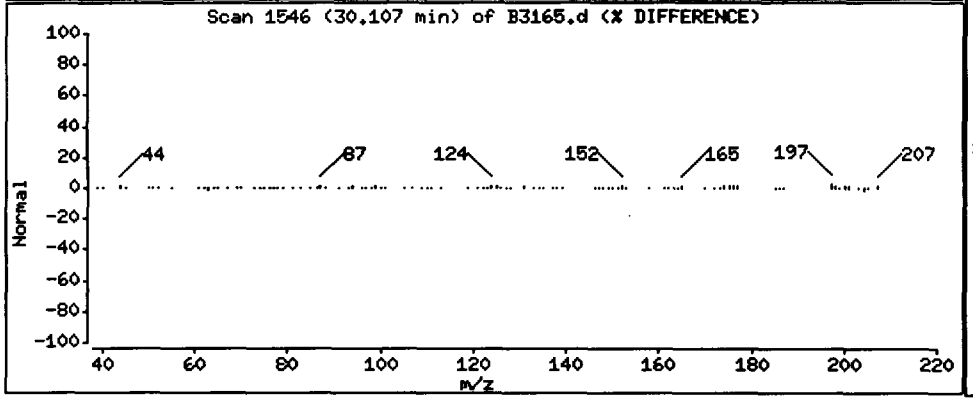
Column diameter: 0.25

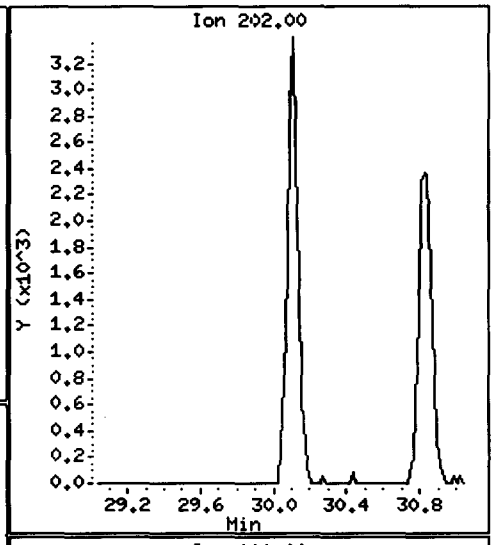
67 Fluoranthene

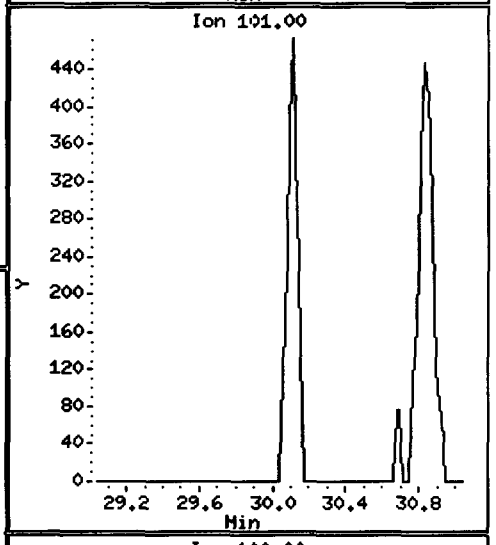


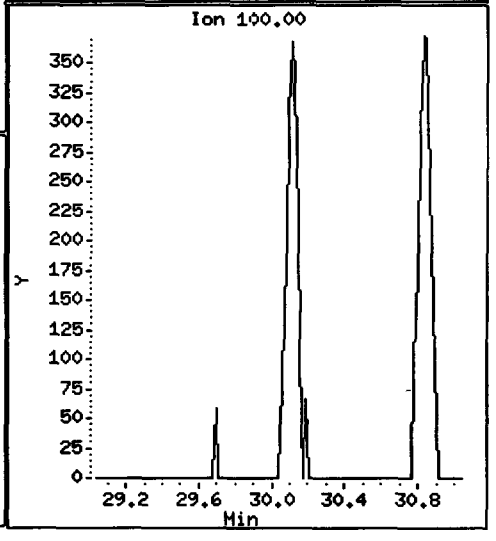












Data File: /var/chem/7002B.i/970430422r.b/B3165.d

Date : 01-MAY-97 05:45:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65108.01

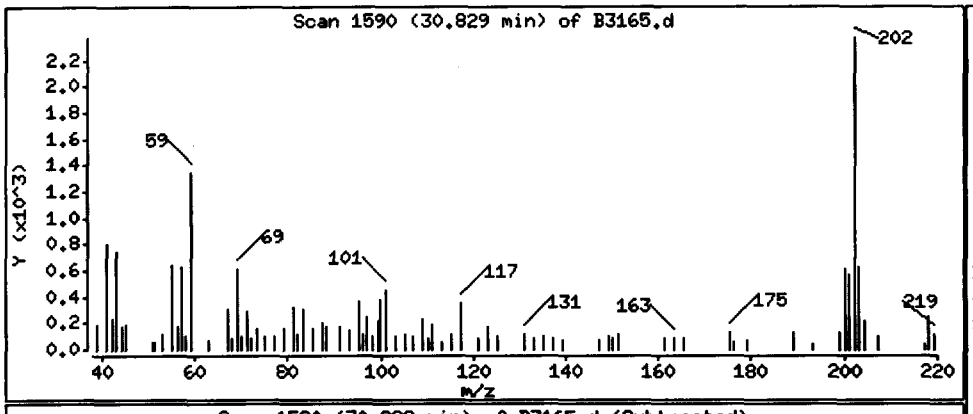
Volume Injected (uL): 2.0

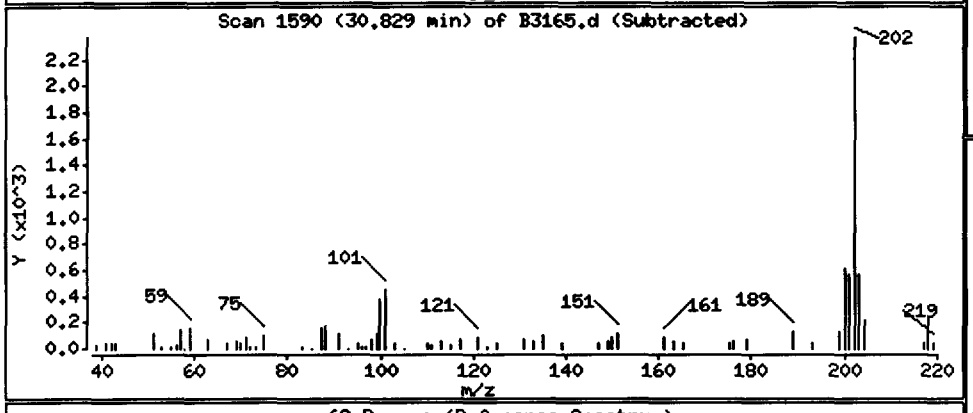
Operator: USER2 REG. GRP.

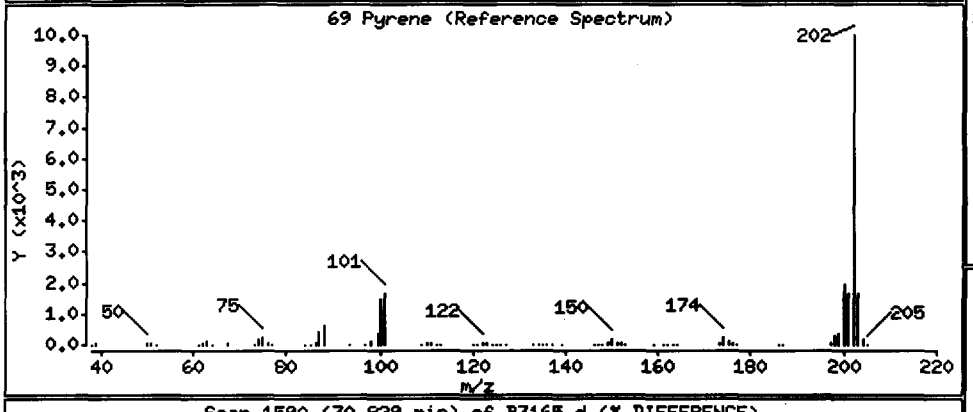
Column phase:

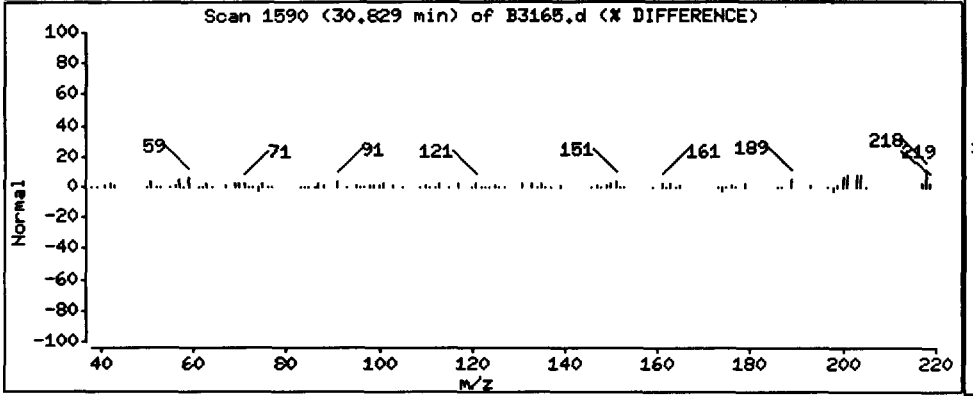
Column diameter: 0.25

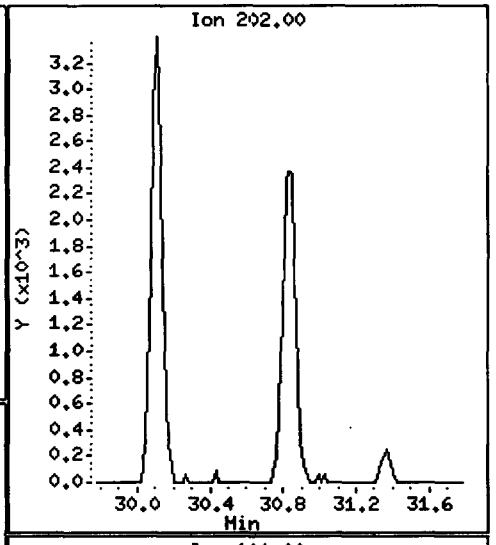
69 Pyrene

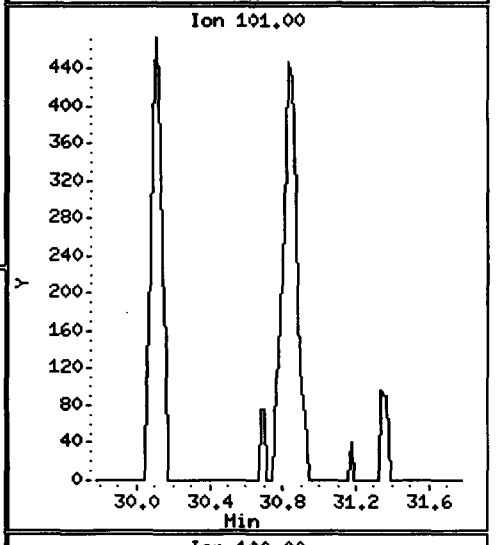


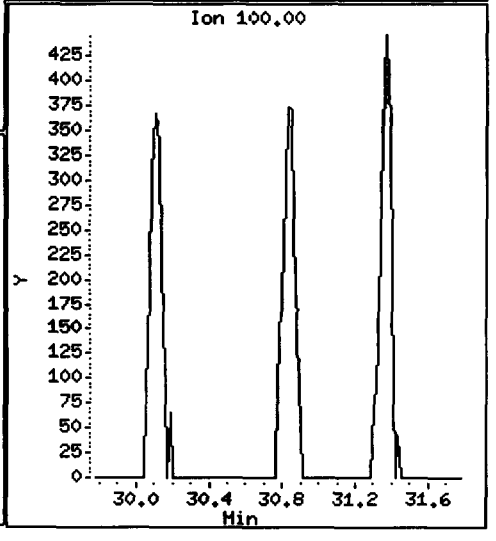












Data File: /var/chem/7002B.i/970430422r.b/B3165.d

Date : 01-MAY-97 05:45:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65108.01

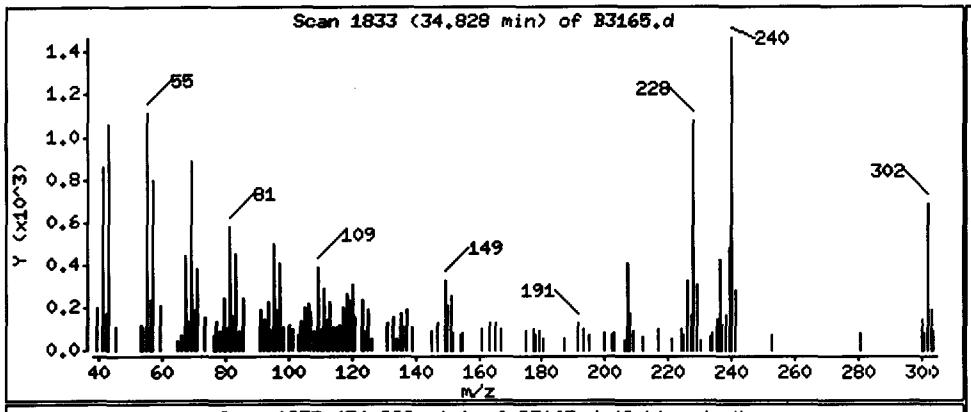
Volume Injected (uL): 2.0

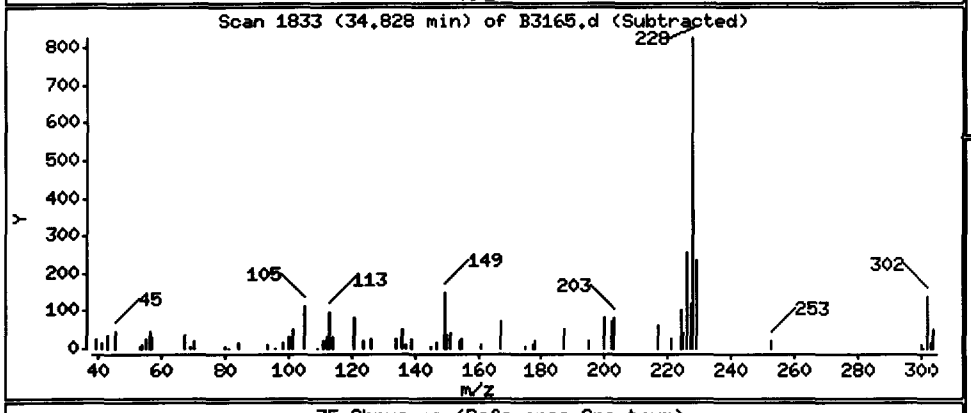
Operator: USER2 REG. GRP.

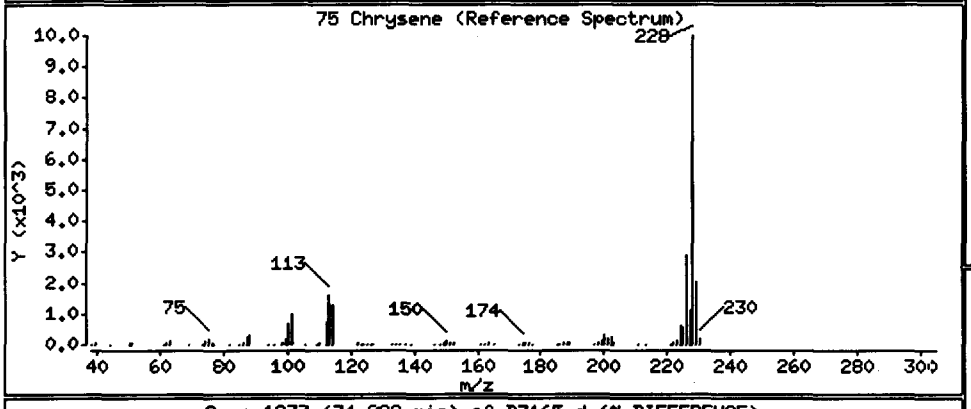
Column phase:

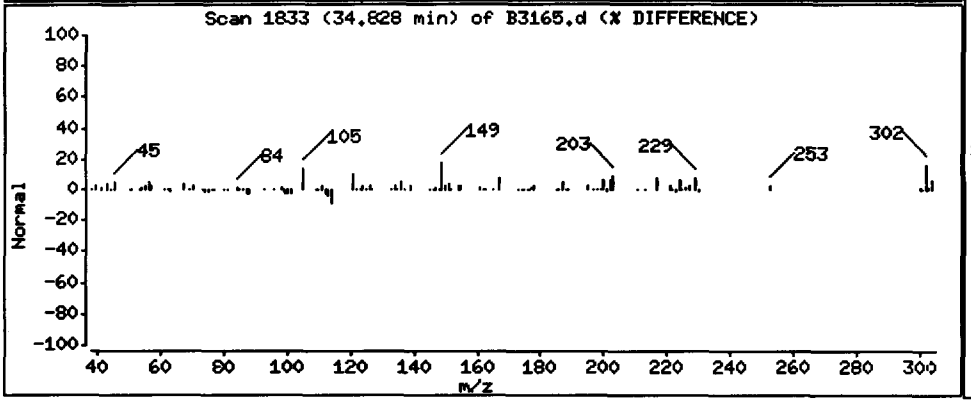
Column diameter: 0.25

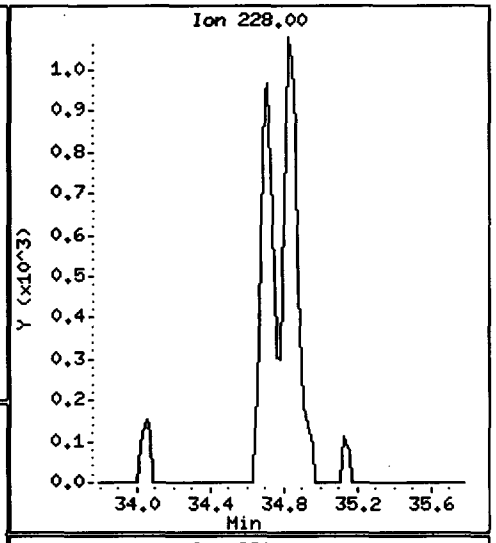
75 Chrysene

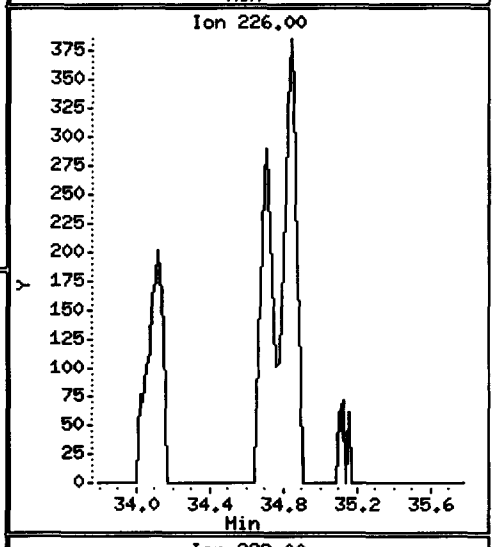


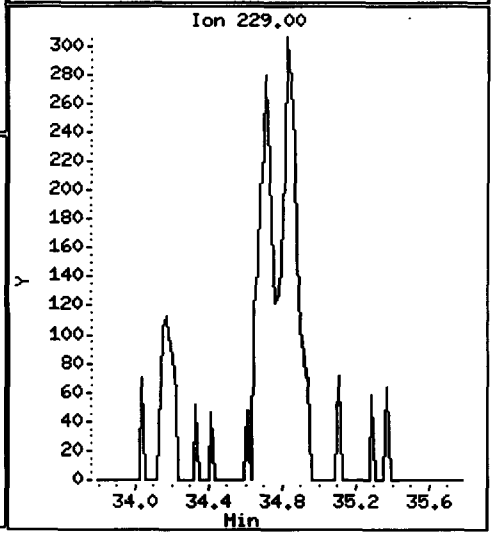












Data File: /var/chem/7002B.i/970430422r.b/B3165.d

Date : 01-MAY-97 05:45:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65108.01

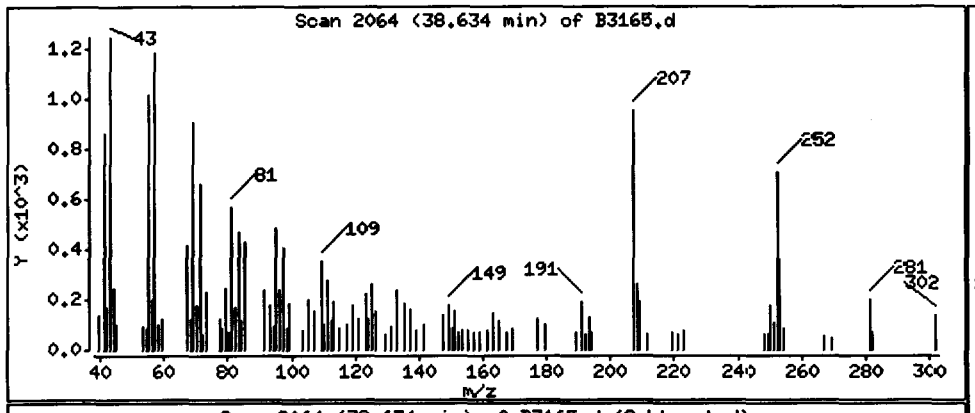
Volume Injected (uL): 2.0

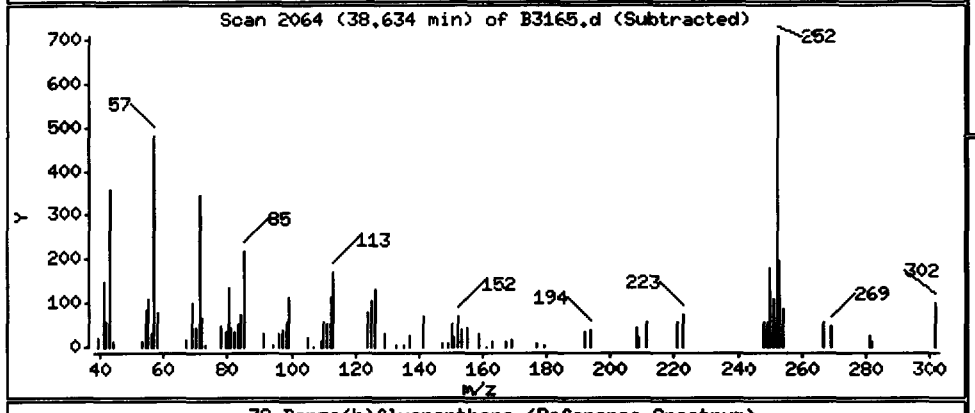
Operator: USER2 REG. GRP.

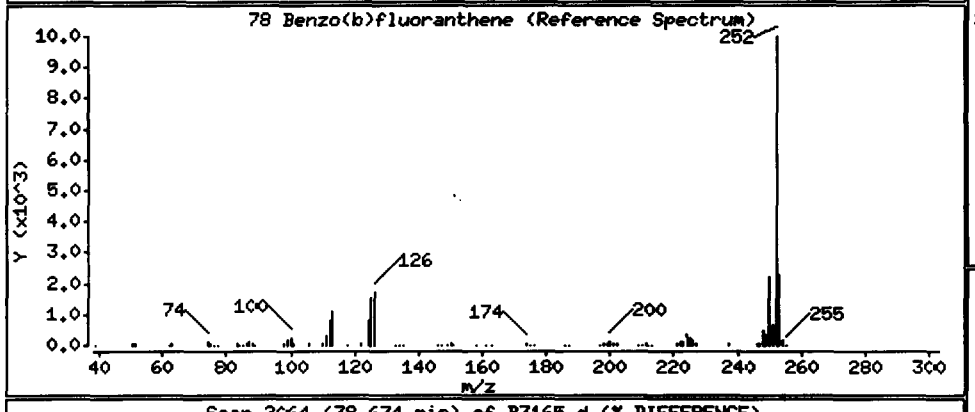
Column phase:

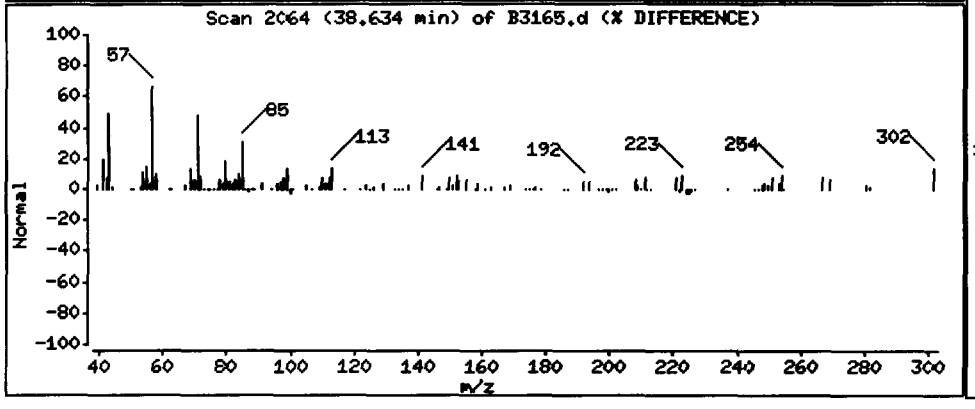
Column diameter: 0.25

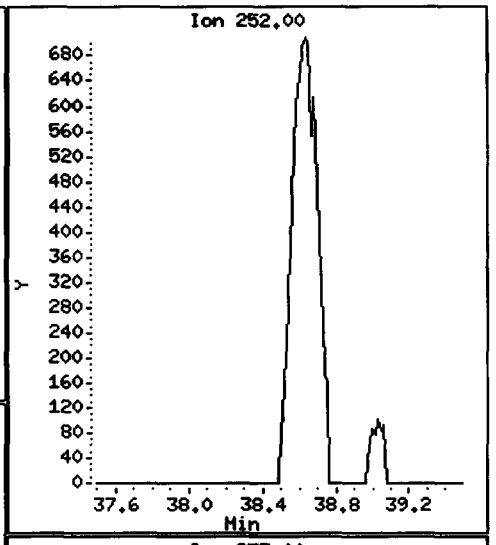
78 Benzo(b)fluoranthene

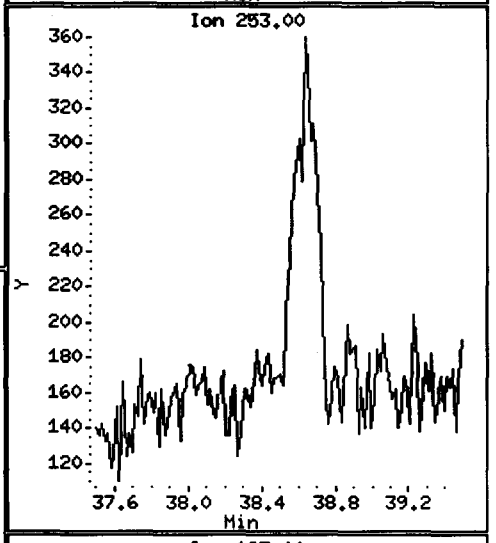


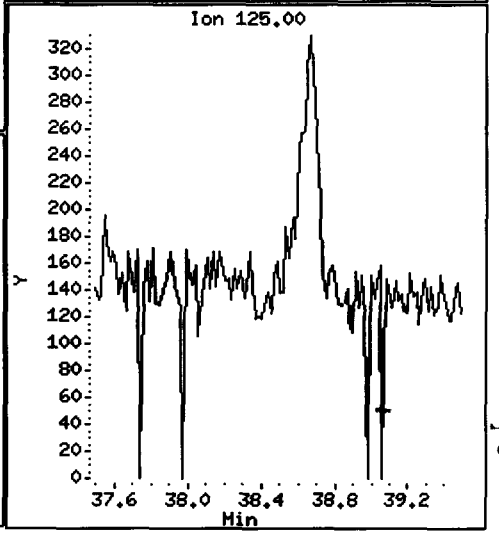












70

Data File: /var/chem/7002B.i/970430422r.b/B3165.d

Date : 01-MAY-97 05:45:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65108.01

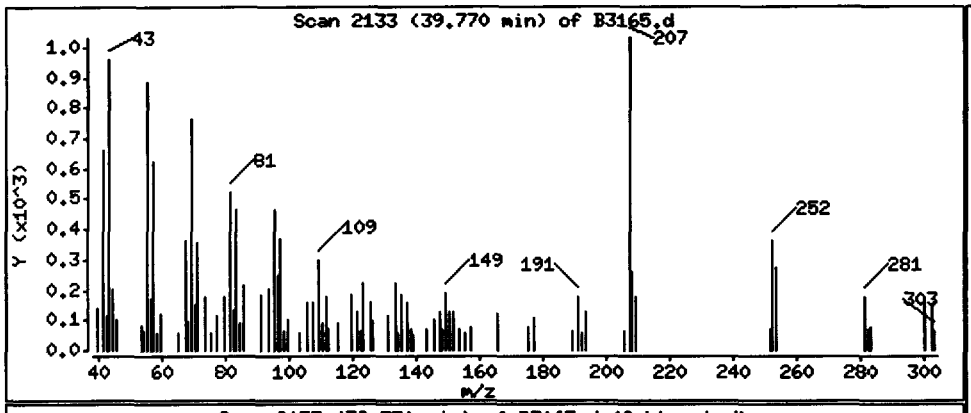
Volume Injected (uL): 2.0

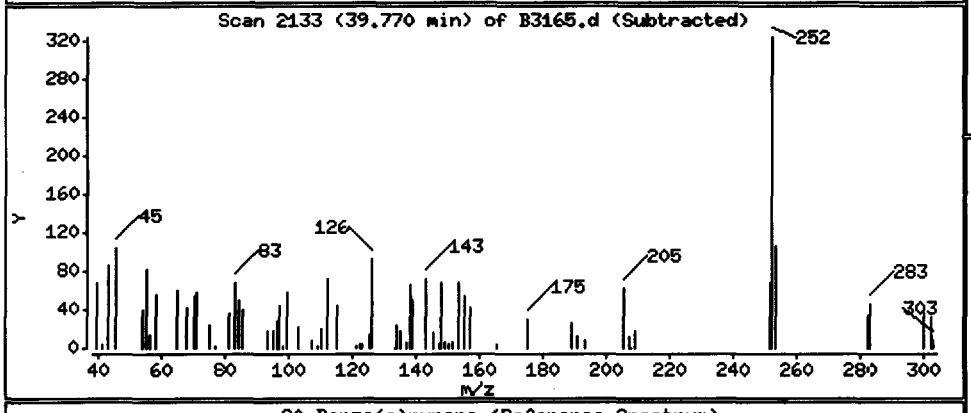
Operator: USER2 REG. GRP.

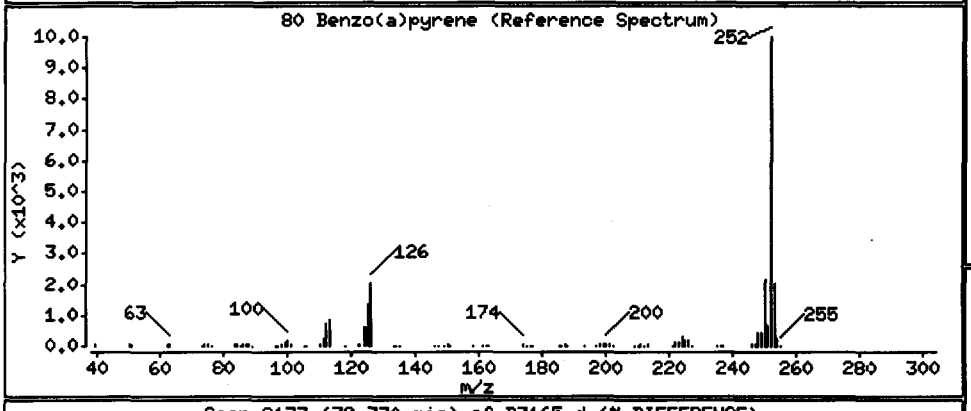
Column phase:

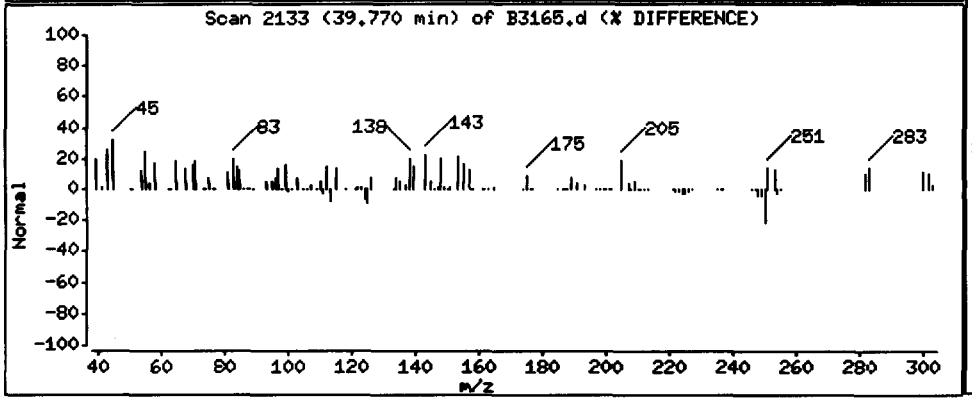
Column diameter: 0.25

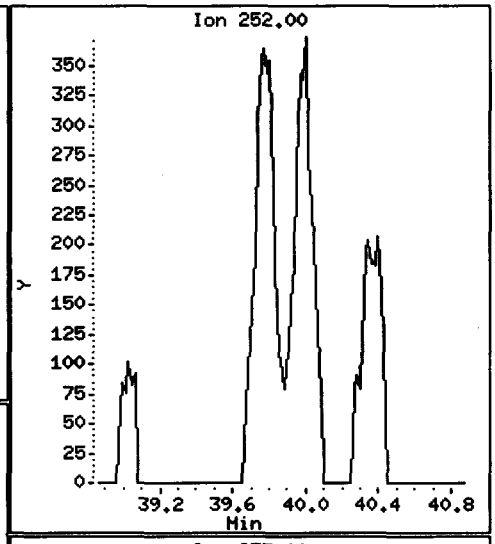
80 Benzo(a)pyrene

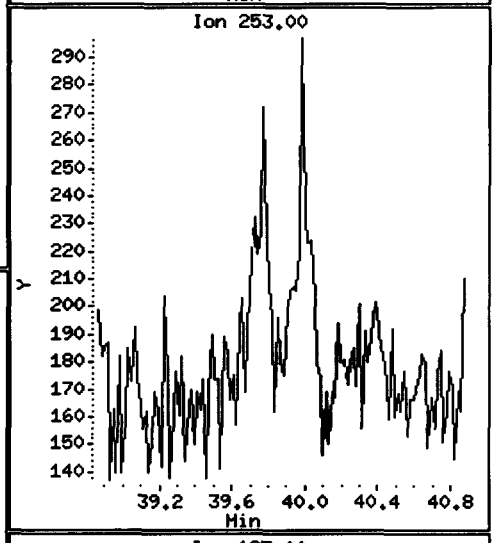


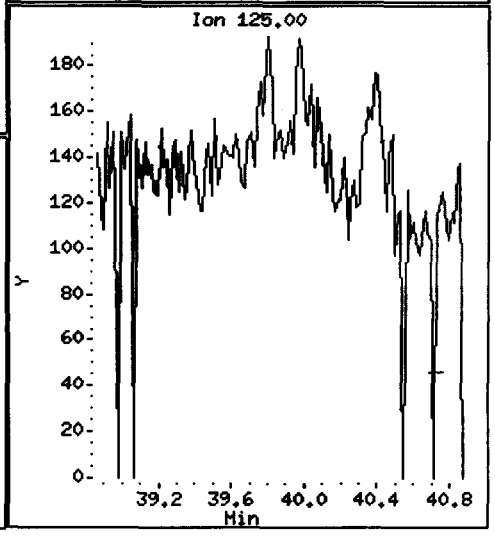












1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q206

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: 65111

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3177

Level: (low/med) LOW Date Received: 04/22/97

% Moisture: 34 decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/97

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	500	U
91-57-6	2-Methylnaphthalene	500	U
91-58-7	2-Chloronaphthalene	500	U
208-96-8	Acenaphthylene	500	U
83-32-9	Acenaphthene	500	U
86-73-7	Fluorene	500	U
85-01-8	Phenanthrene	500	U
120-12-7	Anthracene	500	U
206-44-0	Fluoranthene	72	J
129-00-0	Pyrene	64	J
56-55-3	Benzo(a)Anthracene	500	U
218-01-9	Chrysene	52	J
205-99-2	Benzo(b)Fluoranthene	250	J
207-08-9	Benzo(k)Fluoranthene	500	U
50-32-8	Benzo(a)Pyrene	500	U
193-39-5	Indeno(1,2,3-cd)Pyrene	500	U
53-70-3	Dibenz(a,h)Anthracene	500	U
191-24-2	Benzo(g,h,i)Perylene	500	U

(1) - Cannot be separated from Diphenylamine

Data File: /var/chem/7002B.i/970501421r.b/B3177.d

Date : 01-MAY-97 19:39:00

Client ID:

Instrument: 7002B.i

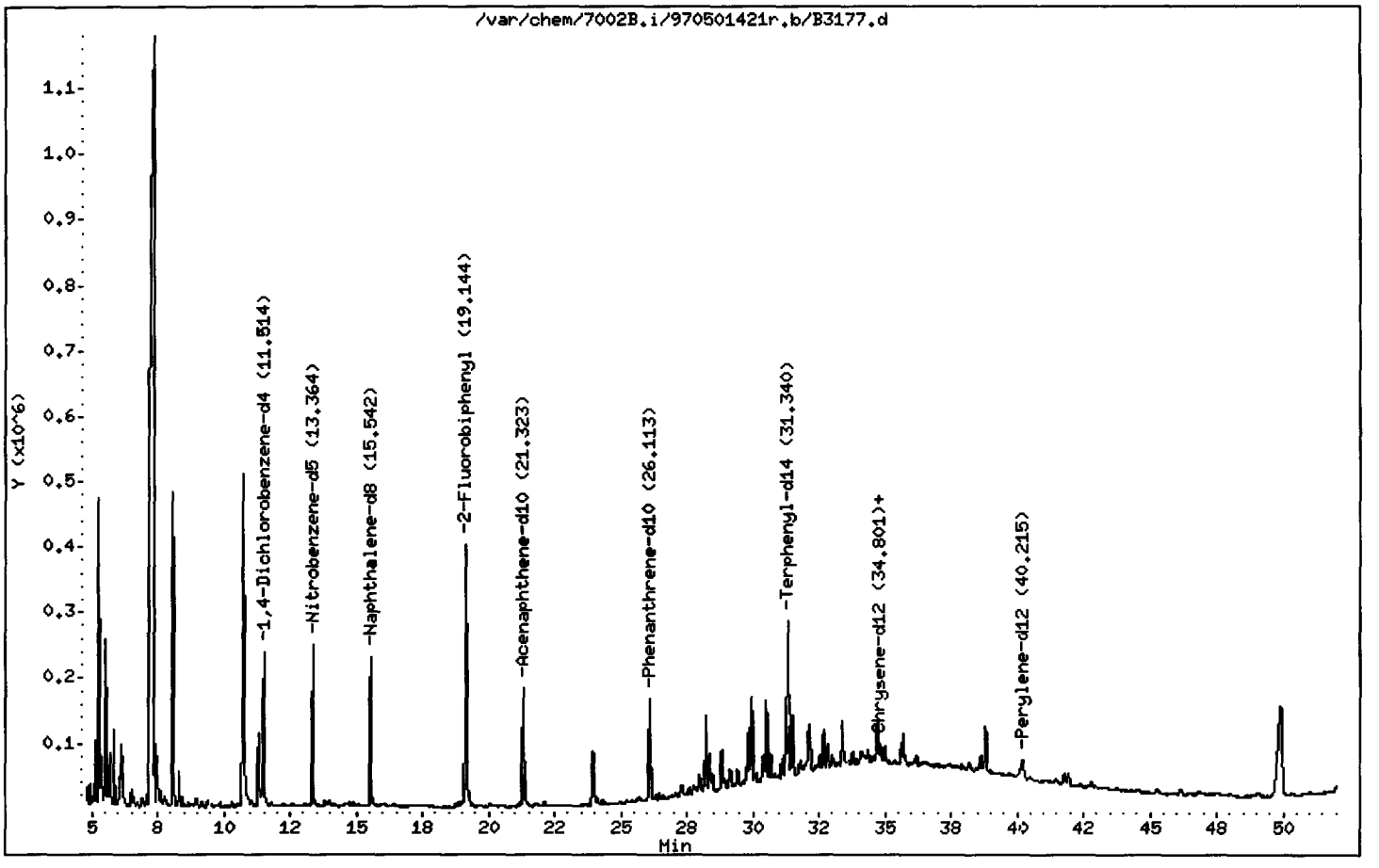
Sample Info: 9700.860 65111.01

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970501421r.b/B3177.d
Lab Smp Id:
Inj Date : 01-MAY-97 19:39:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : 9700.860 65111.01
Misc Info : [970501421R]{COBX71}970428480P,SBN_0A,DCE,4300 Q206 BTL#
Comment :
Method : /var/chem/7002B.i/970501421r.b/cobx71.m
Meth Date : 05-May-97 15:56:17 mscanlon Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 11 1,4-Dichlorobenzene-d4	152	11.514	11.505	(1.000)	102473	40.0	
$ 21 Nitrobenzene-d5	82	13.364	13.373	(0.860)	257191	60.2	1000
* 30 Naphthalene-d8	136	15.542	15.568	(1.000)	333213	40.0	
$ 39 2-Fluorobiphenyl	172	19.144	19.169	(0.898)	490237	72.7	1210
* 45 Acenaphthene-d10	164	21.323	21.329	(1.000)	174434	40.0	
* 62 Phenanthrene-d10	188	26.113	26.124	(1.000)	237957	40.0	
67 Fluoranthene	202	30.078	30.080	(1.152)	14994	2.84	47.4(a)
69 Pyrene	202	30.792	30.815	(0.886)	12202	2.55	42.5(a)
$ 70 Terphenyl-d14	244	31.340	31.339	(0.902)	296156	77.9	1300
* 74 Chrysene-d12	240	34.734	34.741	(1.000)	84587	40.0	
75 Chrysene	228	34.801	34.824	(1.002)	5594	2.08	34.6(a)
78 Benzo(b)fluoranthene	252	38.572	38.576	(0.959)	7115	9.95	166(a)
* 81 Perylene-d12	264	40.215	40.199	(1.000)	63781	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/7002B.i/9705011421r.b/B3177.d

Date : 01-MAY-97 19:39:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65111.01

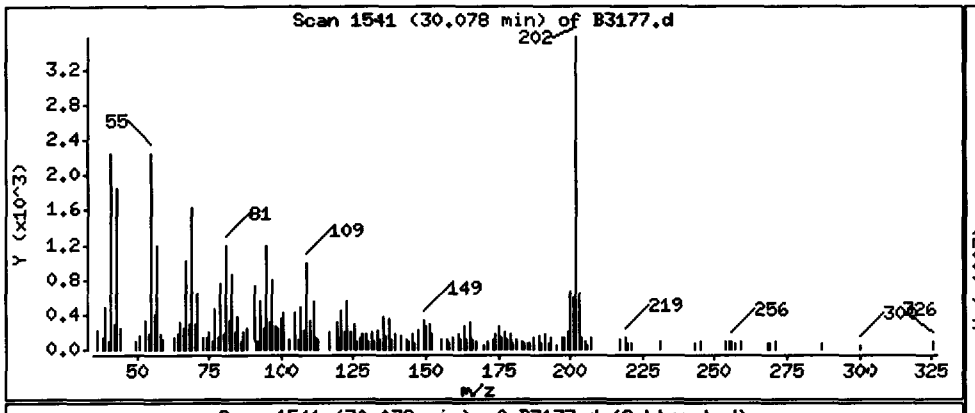
Volume Injected (uL): 2.0

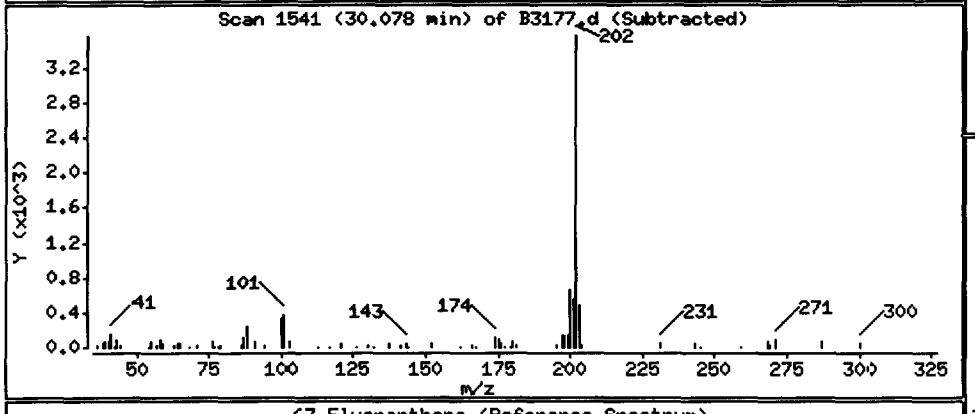
Operator: USER2 REG. GRP.

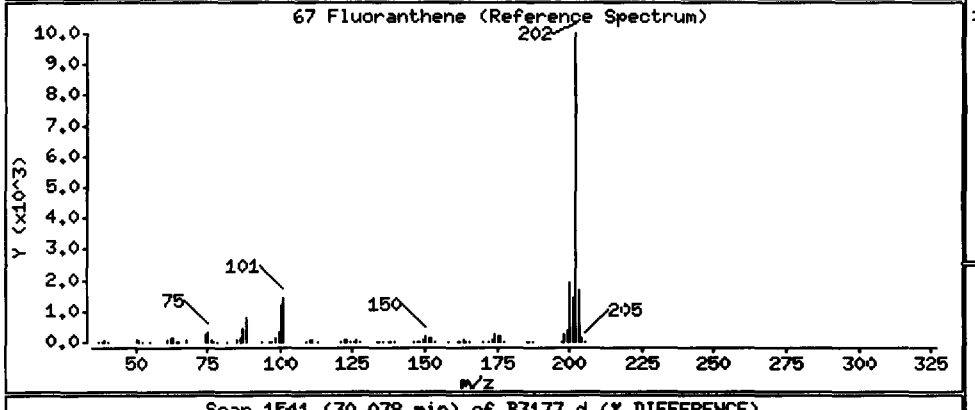
Column phase:

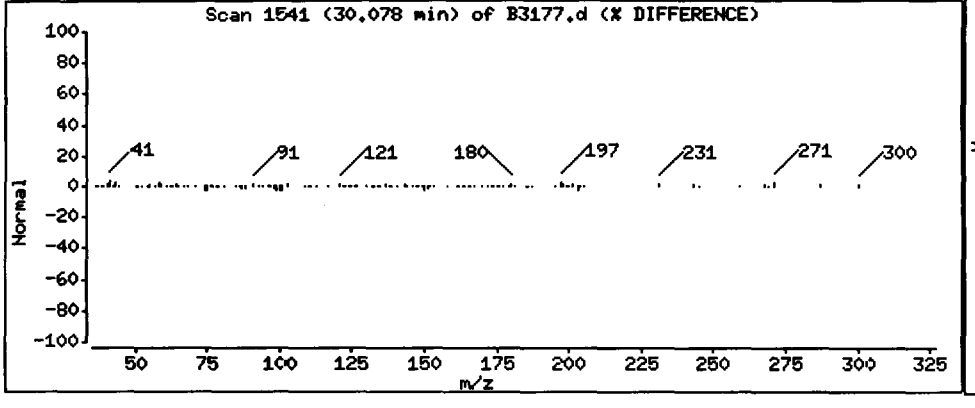
Column diameter: 0.25

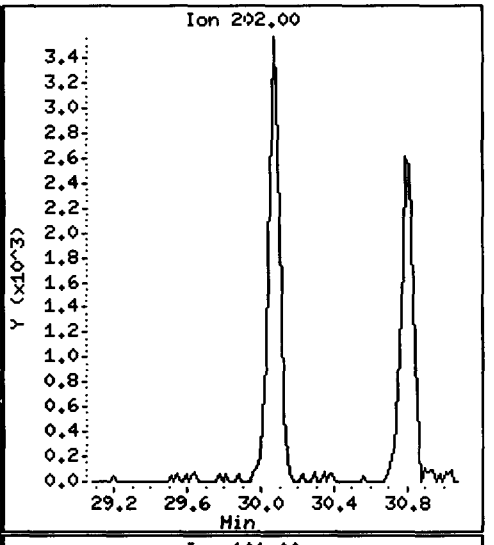
67 Fluoranthene

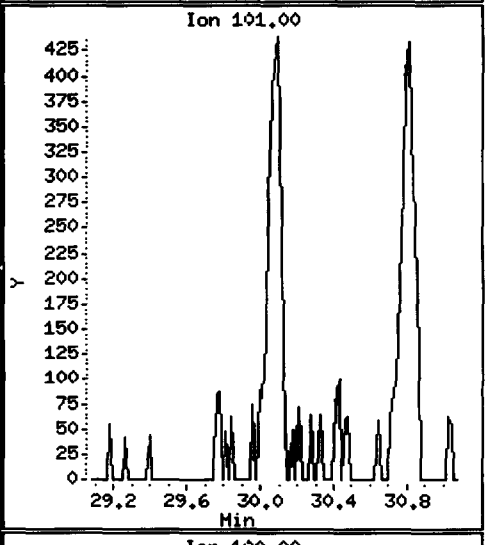


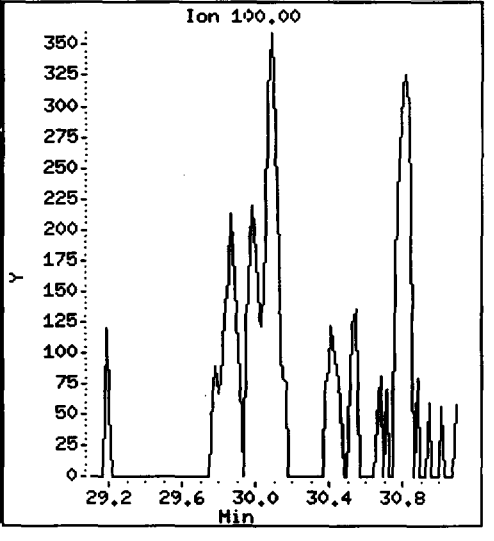












Data File: /var/chem/7002B.i/970501421r.b/B3177.d

Date : 01-MAY-97 19:39:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65111.01

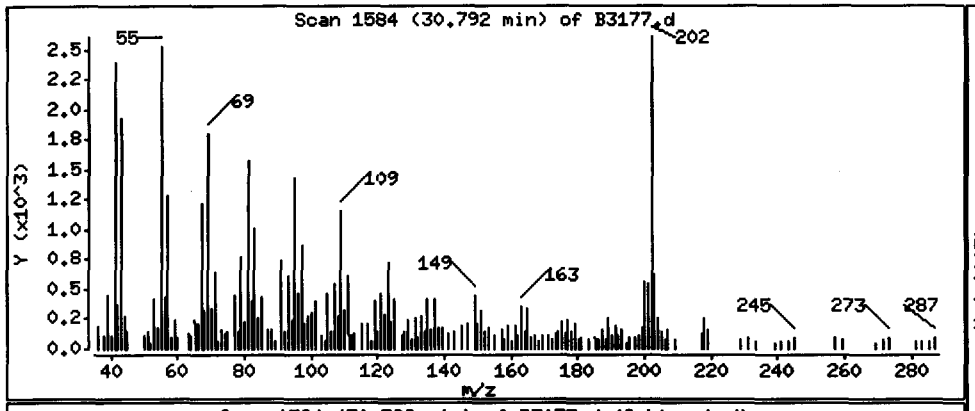
Volume Injected (uL): 2.0

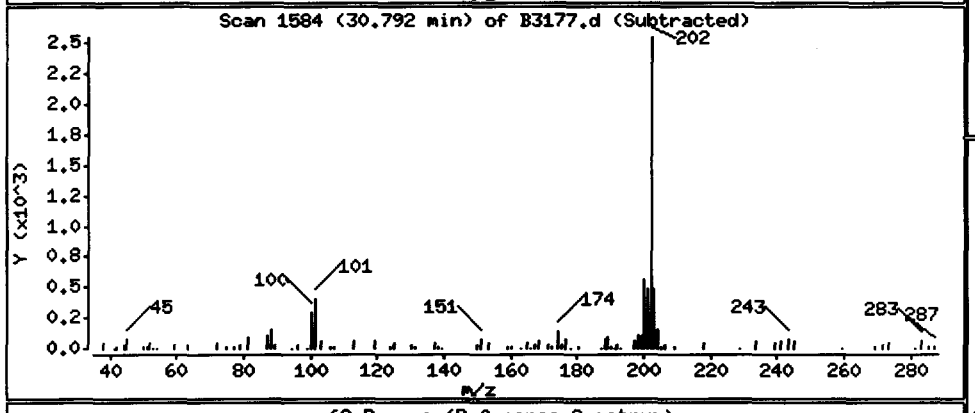
Operator: USER2 REG. GRP.

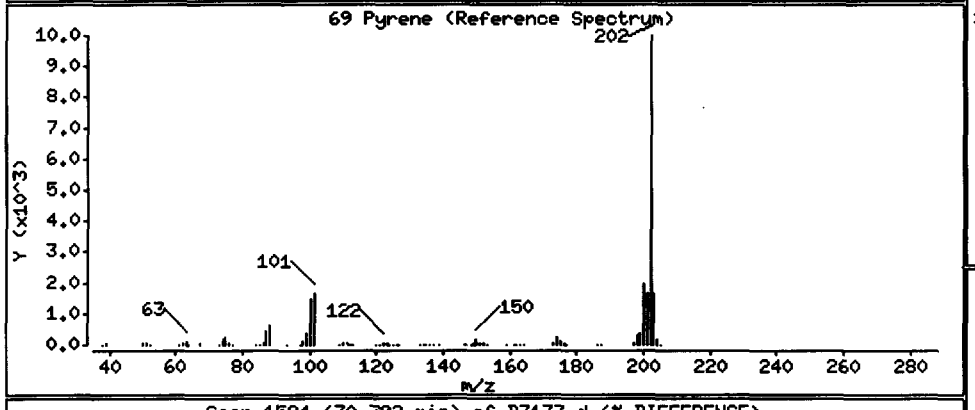
Column phase:

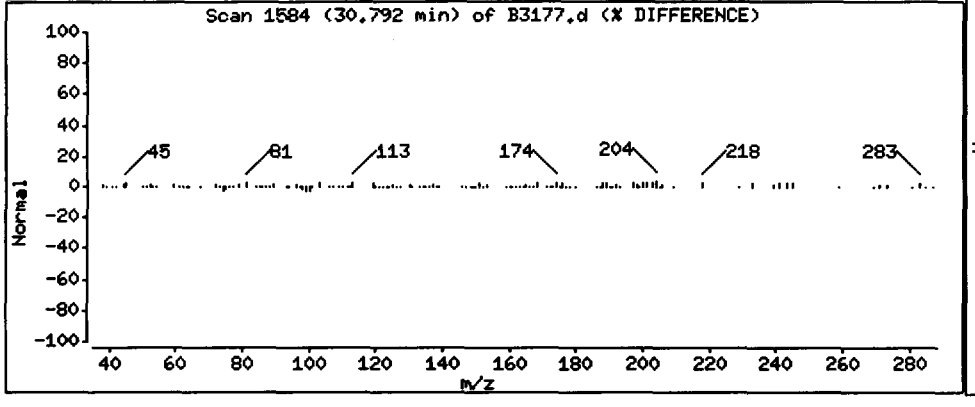
Column diameter: 0.25

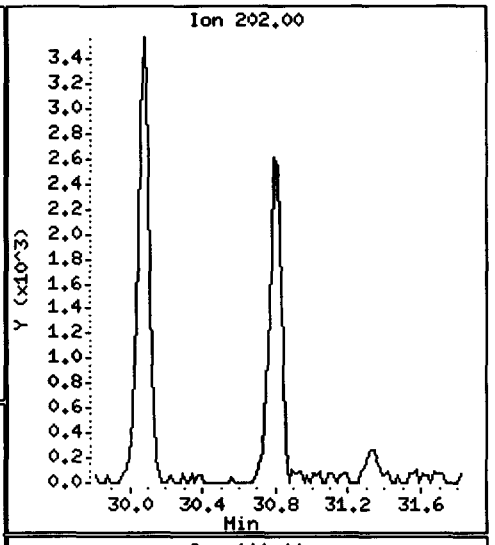
69 Pyrene

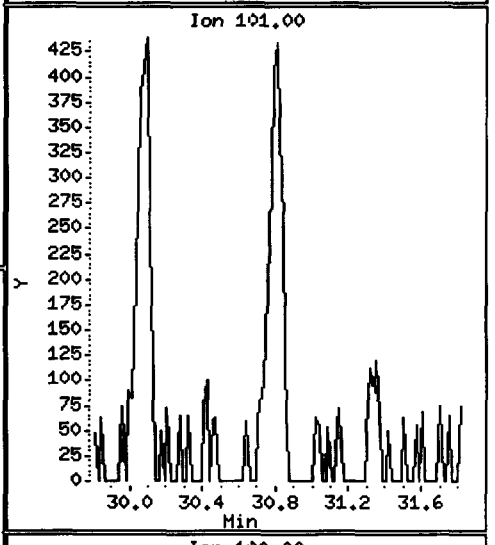


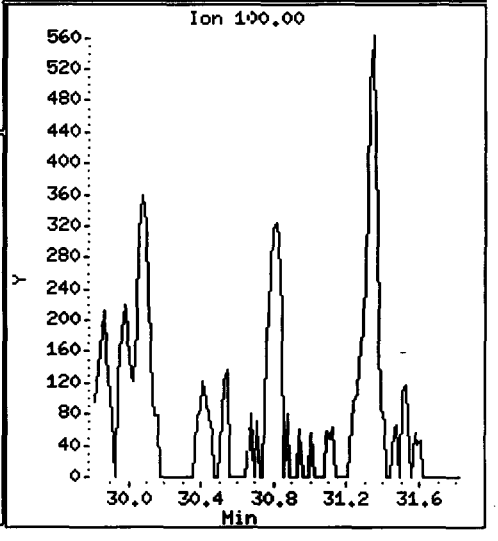












77

Data File: /var/chem/7002B.i/970501421r.b/B3177.d

Date : 01-MAY-97 19:39:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65111.01

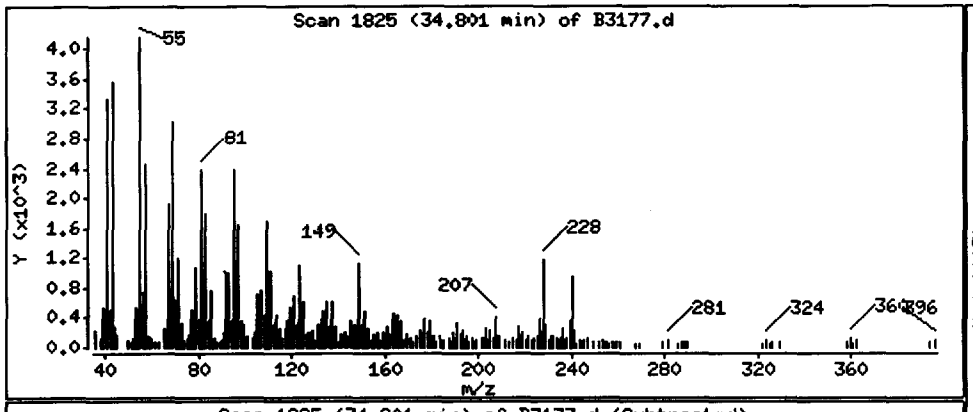
Volume Injected (uL): 2.0

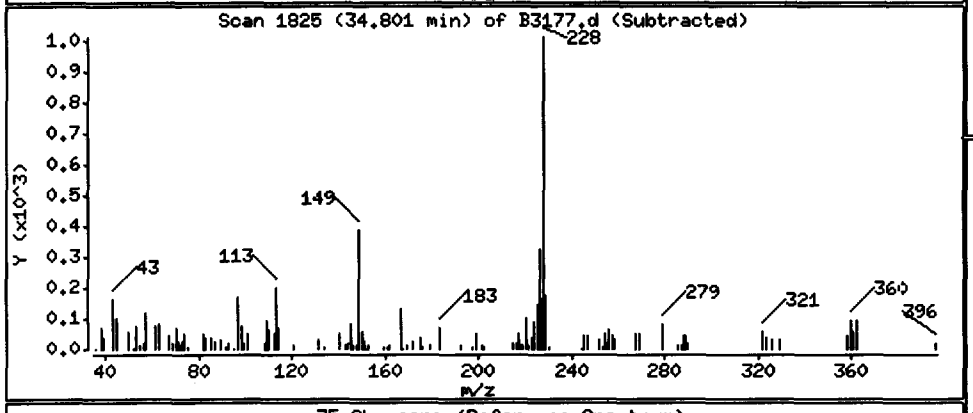
Operator: USER2 REG. GRP.

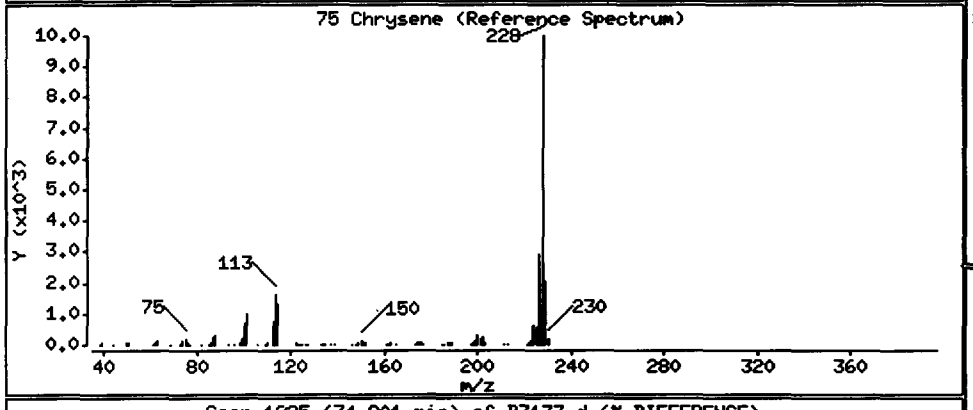
Column phase:

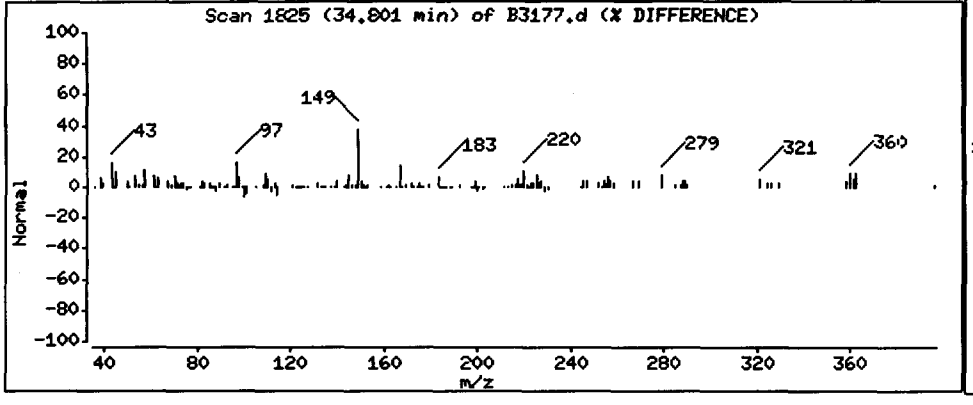
Column diameter: 0.25

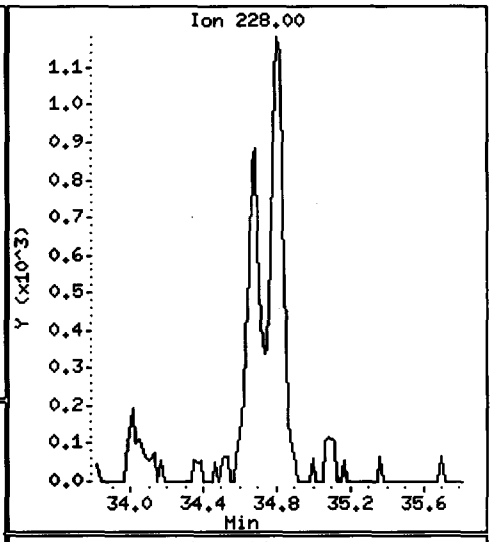
75 Chrysene

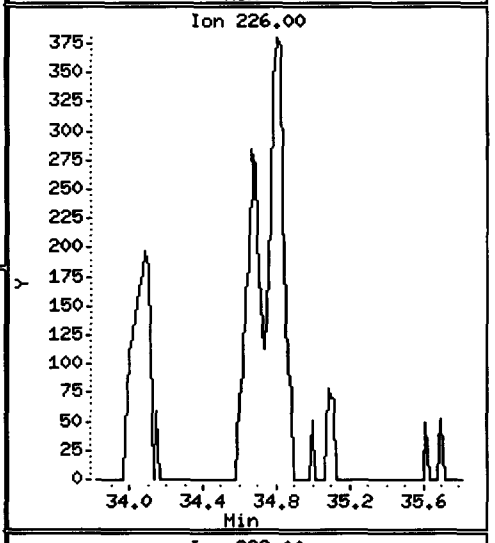


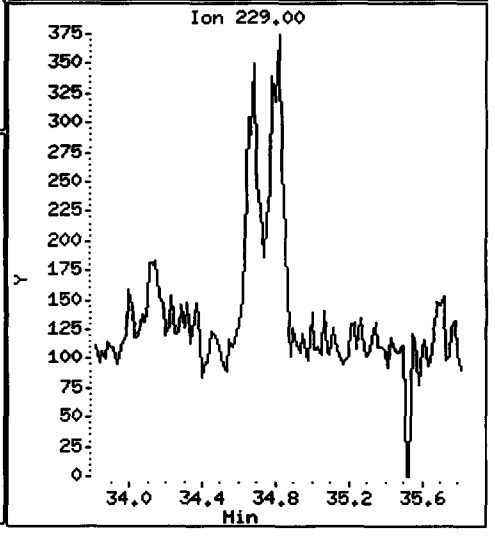












78

Data File: /var/chem/7002B.i/970501421r.b/B3177.d

Date : 01-MAY-97 19:39:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65111.01

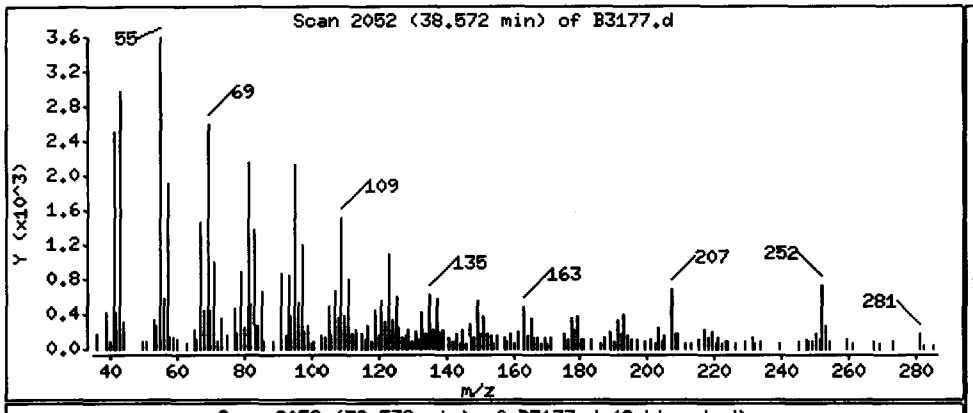
Volume Injected (uL): 2.0

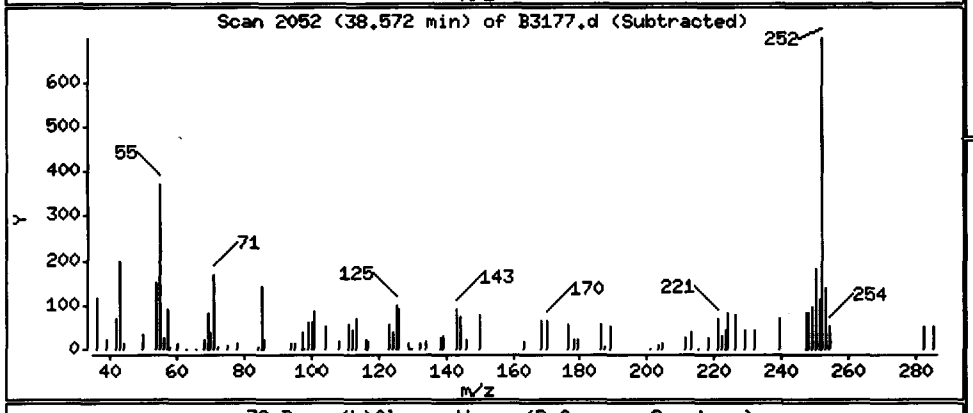
Operator: USER2 REG. CRP.

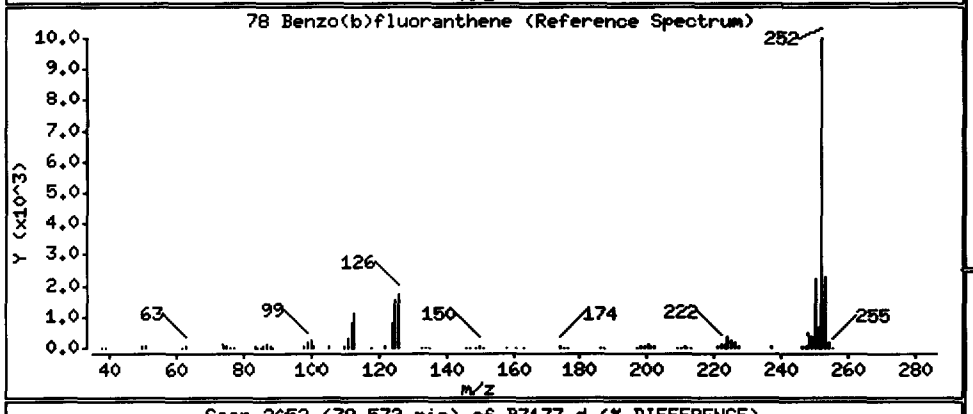
Column phase:

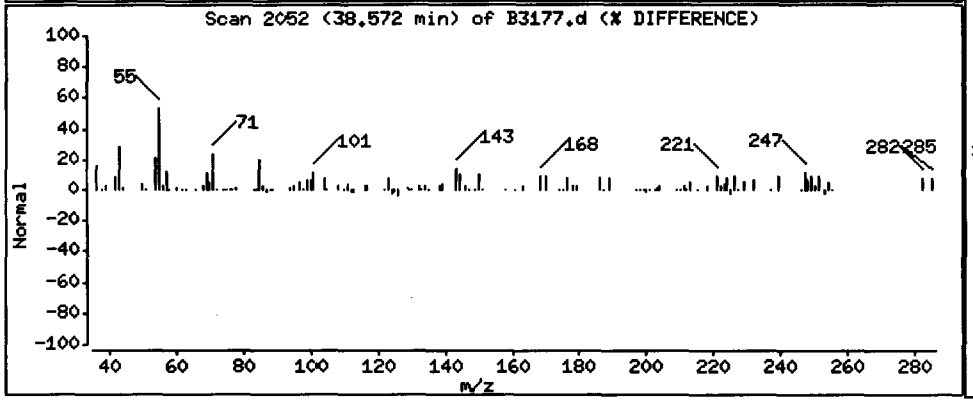
Column diameter: 0.25

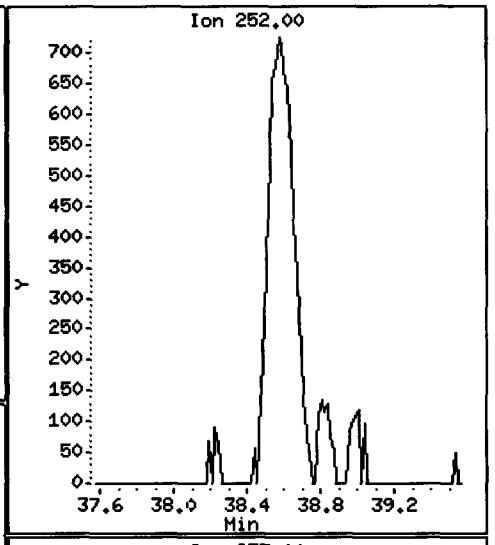
78 Benzo(b)fluoranthene

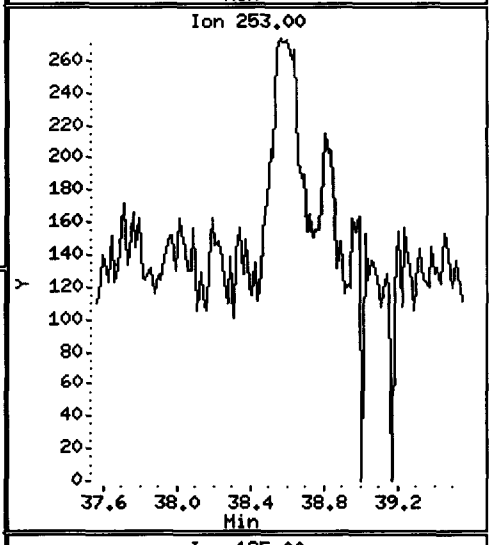


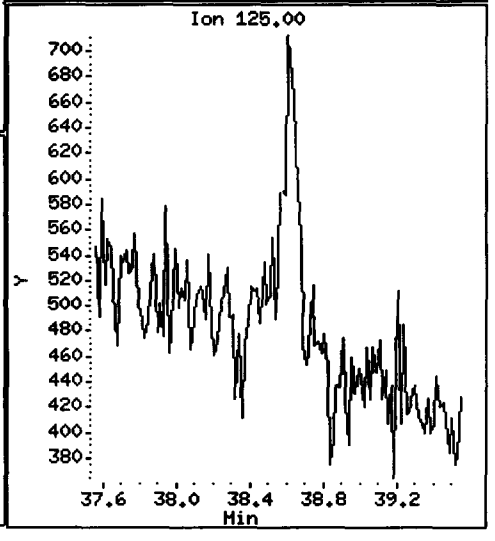












1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q207

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: 65112

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3178

Level: (low/med) LOW Date Received: 04/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/97

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	430	U
91-57-6	2-Methylnaphthalene	430	U
91-58-7	2-Chloronaphthalene	430	U
208-96-8	Acenaphthylene	430	U
83-32-9	Acenaphthene	430	U
86-73-7	Fluorene	430	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	49	J
56-55-3	Benzo(a)Anthracene	430	U
218-01-9	Chrysene	430	U
205-99-2	Benzo(b)Fluoranthene	210	J
207-08-9	Benzo(k)Fluoranthene	430	U
50-32-8	Benzo(a)Pyrene	430	U
193-39-5	Indeno(1,2,3-cd)Pyrene	430	U
53-70-3	Dibenz(a,h)Anthracene	430	U
191-24-2	Benzo(g,h,i)Perylene	430	U

(1) - Cannot be separated from Diphenylamine

Data File: /var/chem/7002B.i/970501421r.b/B3178.d

Date : 01-MAY-97 20:38:00

Client ID:

Instrument: 7002B.i

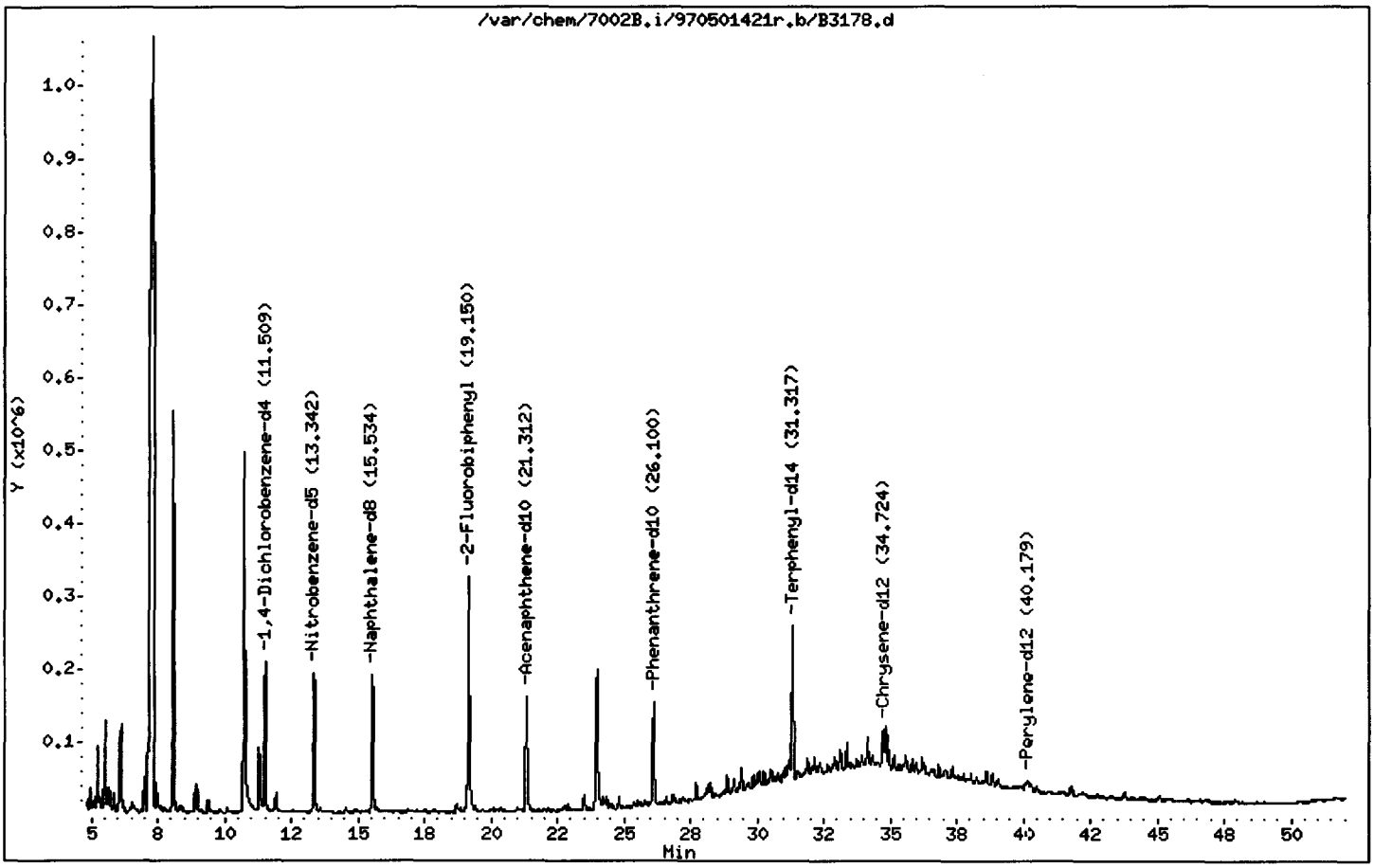
Sample Info: 9700.860 65112.01

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970501421r.b/B3178.d
Lab Smp Id:
Inj Date : 01-MAY-97 20:38:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : 9700.860 65112.01
Misc Info : [970501421R]{COBX71}970428480P,SBN_0A,DCE,4300 Q207 BTL#
Comment :
Method : /var/chem/7002B.i/970501421r.b/cobx71.m
Meth Date : 05-May-97 15:56:17 mscanlon Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

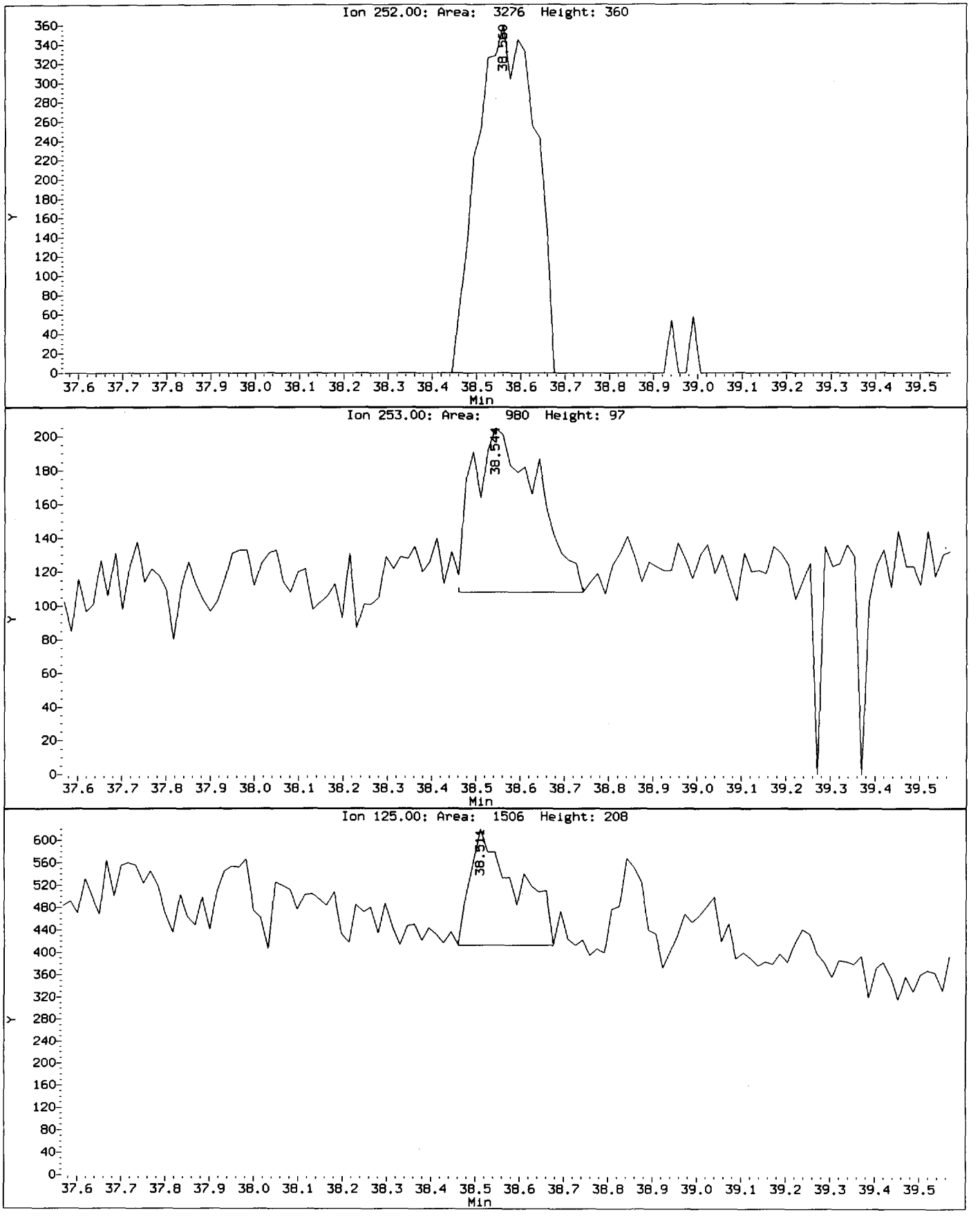
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 11 1,4-Dichlorobenzene-d4	152	11.509	11.505	(1.000)	95279	40.0	
$ 21 Nitrobenzene-d5	82	13.342	13.373	(0.859)	207752	52.1	869
* 30 Naphthalene-d8	136	15.534	15.568	(1.000)	310535	40.0	
$ 39 2-Fluorobiphenyl	172	19.134	19.169	(0.897)	451992	71.0	1180
* 45 Acenaphthene-d10	164	21.328	21.329	(1.000)	164726	40.0	
* 62 Phenanthrene-d10	188	26.100	26.124	(1.000)	219726	40.0	
69 Pyrene	202	30.789	30.815	(0.887)	8294	2.23	37.1(a)
$ 70 Terphenyl-d14	244	31.317	31.339	(0.902)	252464	85.3	1420
* 74 Chrysene-d12	240	34.724	34.741	(1.000)	65795	40.0	
78 Benzo(b)fluoranthene	252	38.560	38.576	(0.960)	3276	9.58	160(aQM)
* 81 Perylene-d12	264	40.179	40.199	(1.000)	32949	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /var/chem/7002B.i/970501421r.b/B317B.d
Injection Date: 01-MAY-97 20:38:00
Instrument: 7002B.i
Client Sample ID:

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2



Data File: /var/chem/7002B.i/970501421r.b/B3178.d

Date : 01-MAY-97 20:38:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65112.01

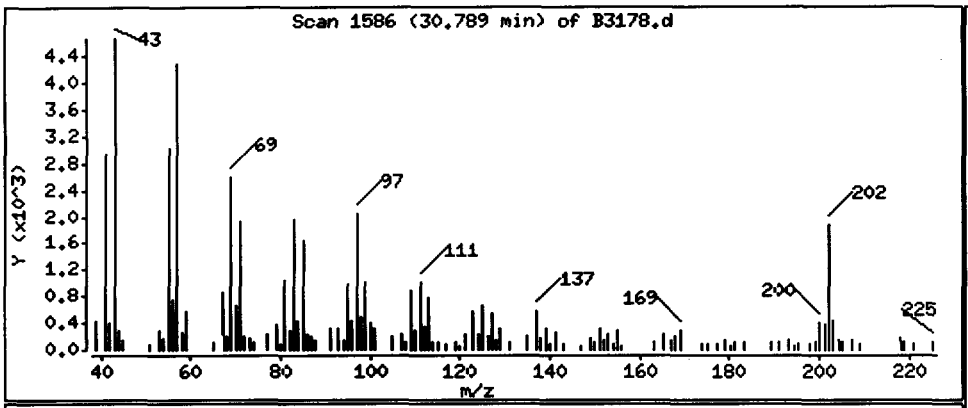
Volume Injected (uL): 2.0

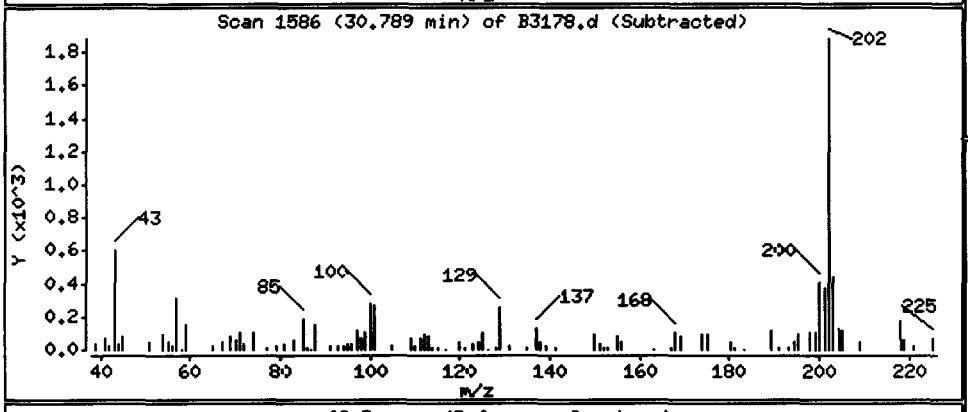
Operator: USER2 REG. GRP.

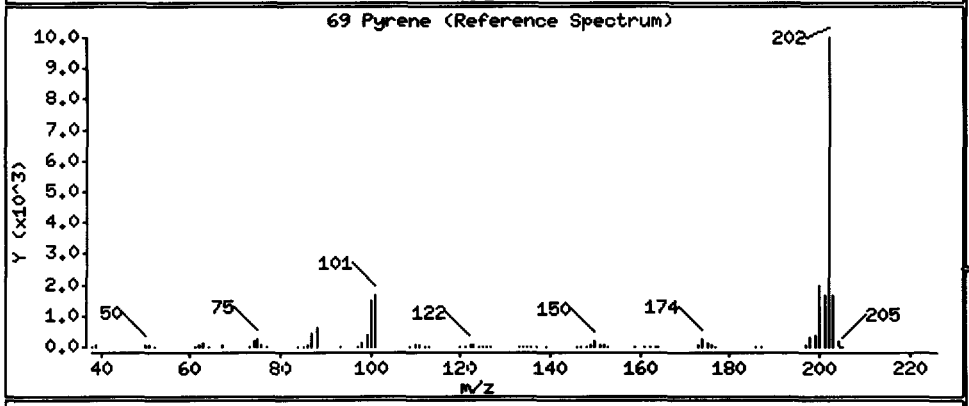
Column phase:

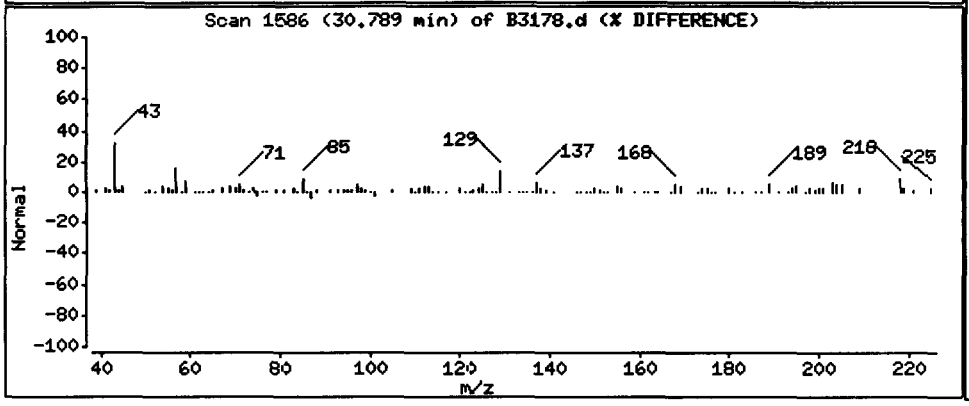
Column diameter: 0.25

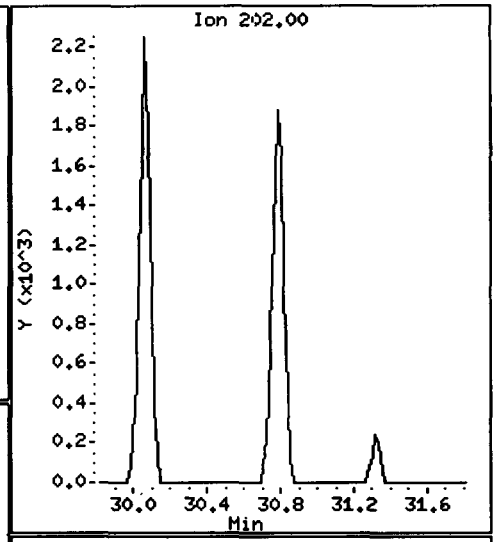
69 Pyrene

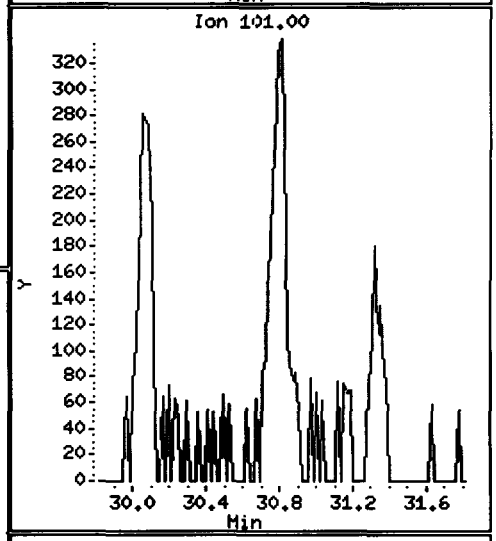


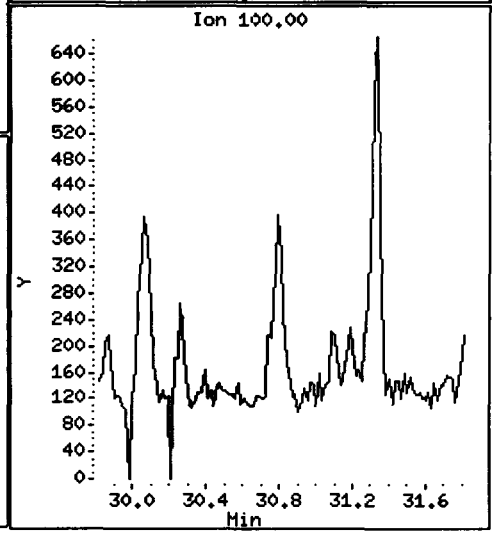












Data File: /var/chem/7002B.i/970501421r.b/B3178.d

Date : 01-MAY-97 20:38:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65112.01

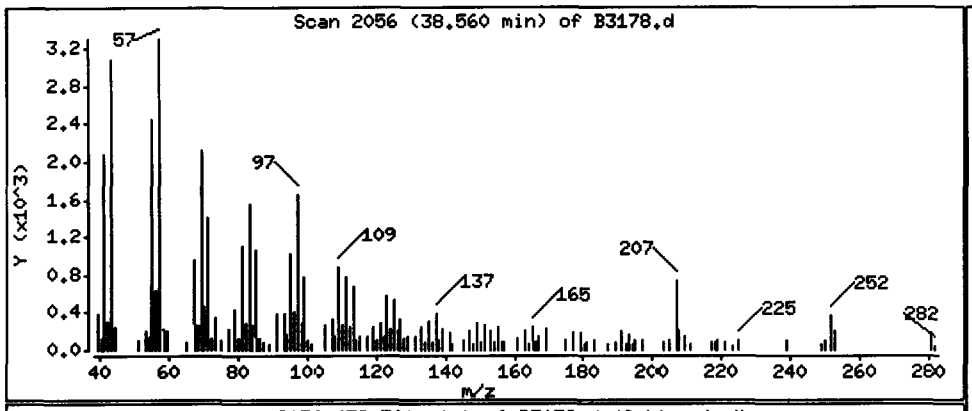
Volume Injected (uL): 2.0

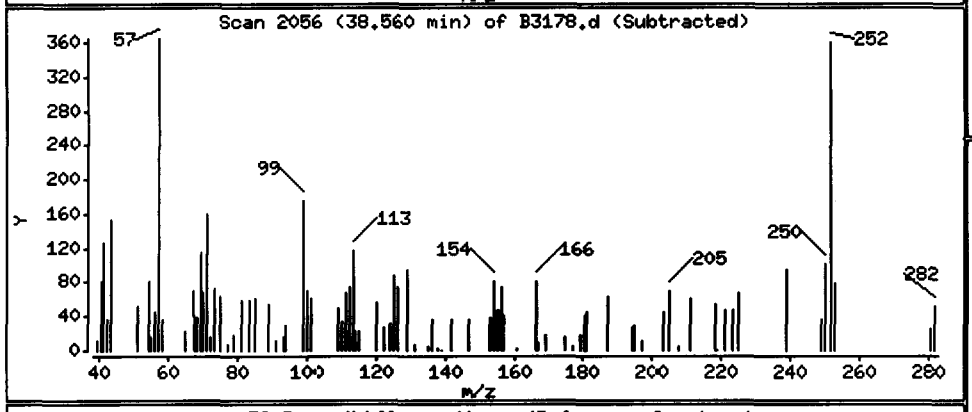
Operator: USER2 REG. GRP.

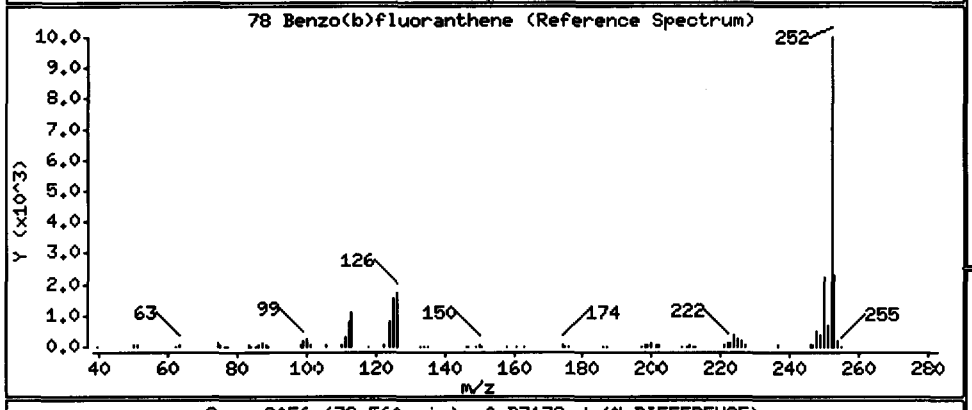
Column phase:

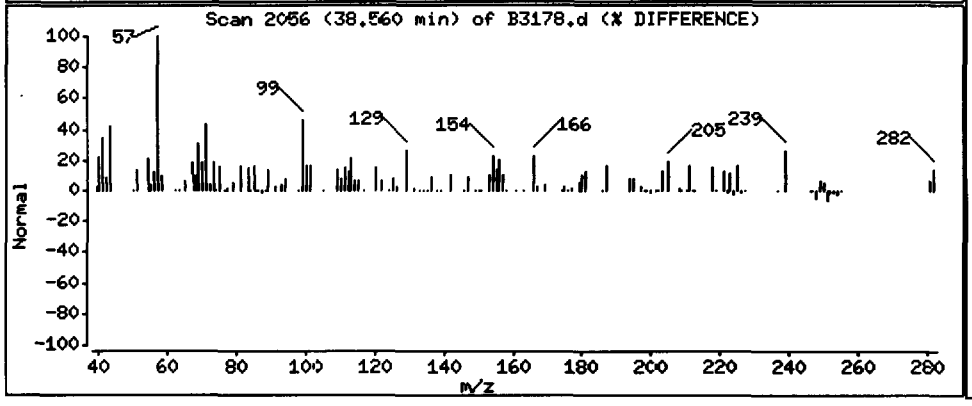
Column diameter: 0.25

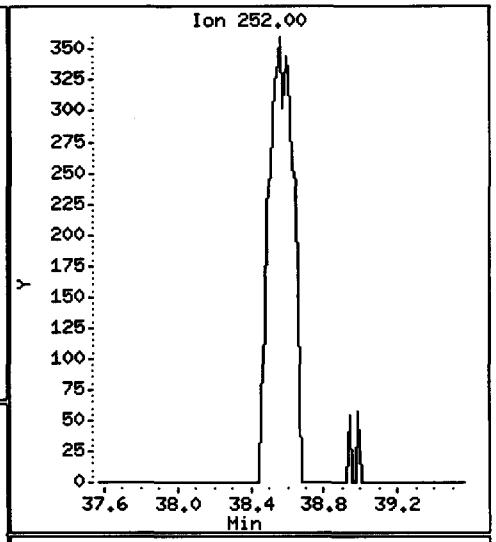
78 Benzo(b)fluoranthene

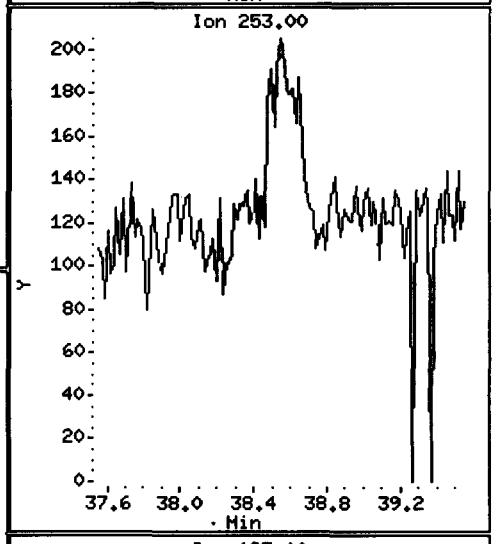


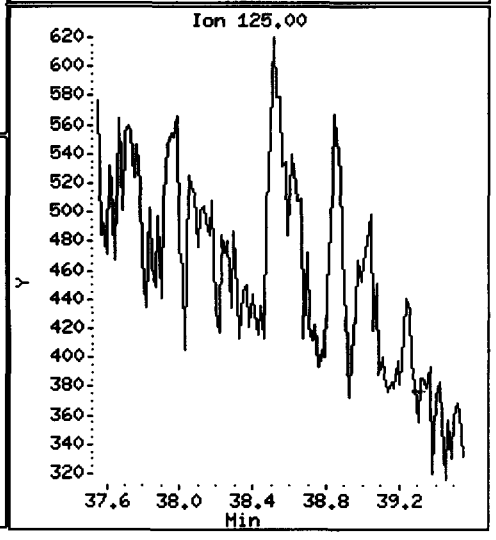












1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q208

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: 65113

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3180

Level: (low/med) LOW Date Received: 04/22/97

% Moisture: 6 decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/01/97

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3500	J
91-57-6	2-Methylnaphthalene	11000	U
91-58-7	2-Chloronaphthalene	11000	U
208-96-8	Acenaphthylene	11000	U
83-32-9	Acenaphthene	11000	U
86-73-7	Fluorene	11000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	11000	U
56-55-3	Benzo(a)Anthracene	11000	U
218-01-9	Chrysene	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1) - Cannot be separated from Diphenylamine

Data File: /var/chem/7002B.i/970501421r.b/B3180.d

Date : 01-MAY-97 22:47:00

Client ID:

Instrument: 7002B.i

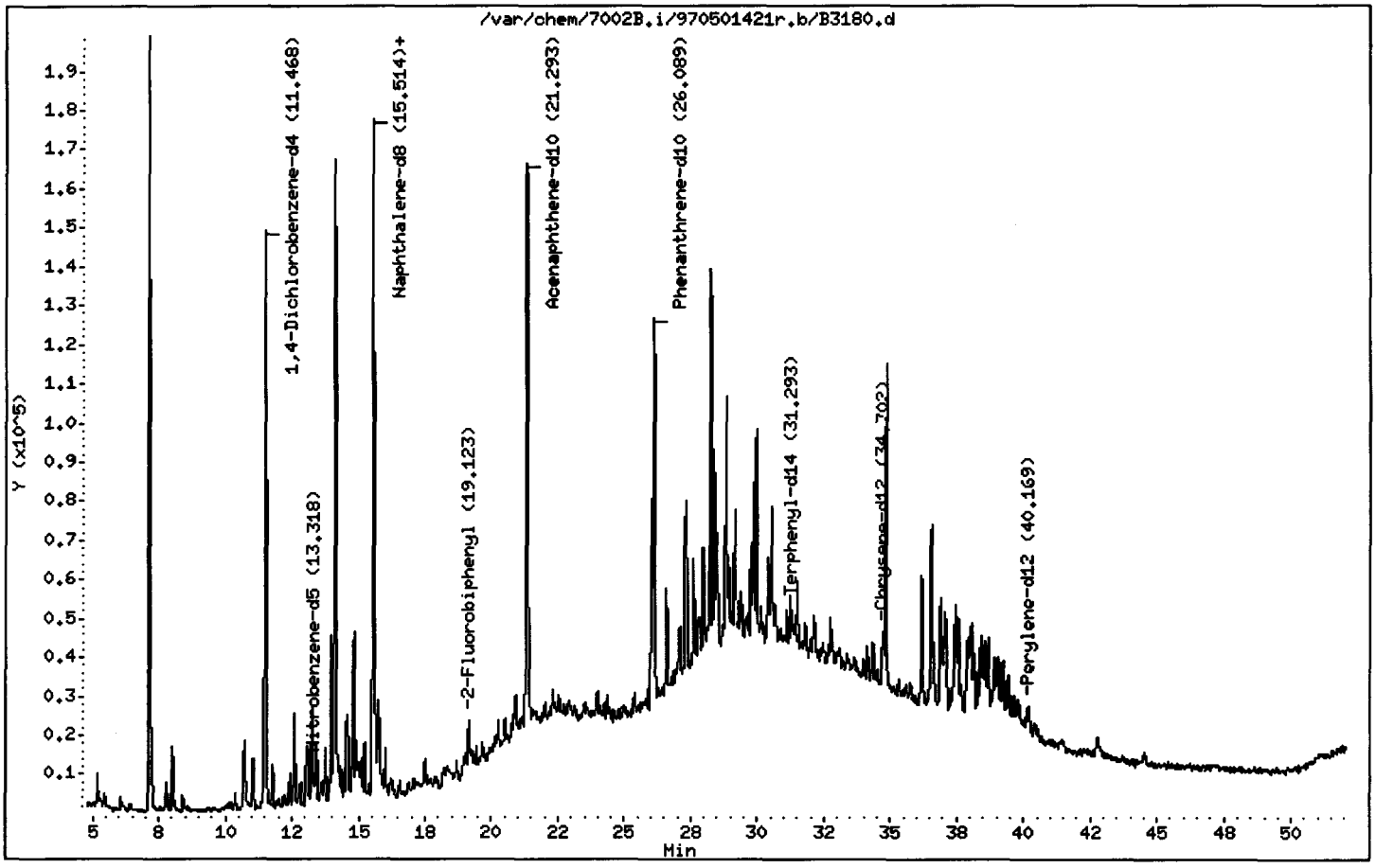
Sample Info: RA 9700.860 65113.01

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970501421r.b/B3180.d
Lab Smp Id:
Inj Date : 01-MAY-97 22:47:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : RA 9700.860 65113.01
Misc Info : [970501421R]{COBX71}970428480P,SBN_0A,DCE,4300 3X Q208BTL#
Comment :
Method : /var/chem/7002B.i/970501421r.b/cobx71.m
Meth Date : 05-May-97 15:56:17 mscanlon Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 11 1,4-Dichlorobenzene-d4	152	11.468	11.505	(1.000)	96898	40.0	
$ 21 Nitrobenzene-d5	82	13.334	13.373	(0.859)	10304	2.84	1420(R)
* 30 Naphthalene-d8	136	15.514	15.568	(1.000)	282369	40.0	
31 Naphthalene	128	15.580	15.617	(1.004)	51581	6.64	3320
$ 39 2-Fluorobiphenyl	172	19.123	19.169	(0.898)	21187	3.64	1820(R)
* 45 Acenaphthene-d10	164	21.293	21.329	(1.000)	150487	40.0	
* 62 Phenanthrene-d10	188	26.089	26.124	(1.000)	143214	40.0	
$ 70 Terphenyl-d14	244	31.293	31.339	(0.902)	3900	4.43	2220(QR)
* 74 Chrysene-d12	240	34.702	34.741	(1.000)	19566	40.0	
* 81 Perylene-d12	264	40.169	40.199	(1.000)	12610	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/7002B.i/970501421r.b/B3180.d

Date : 01-MAY-97 22:47:00

Client ID:

Instrument: 7002B.i

Sample Info: RA 9700.860 65113.01

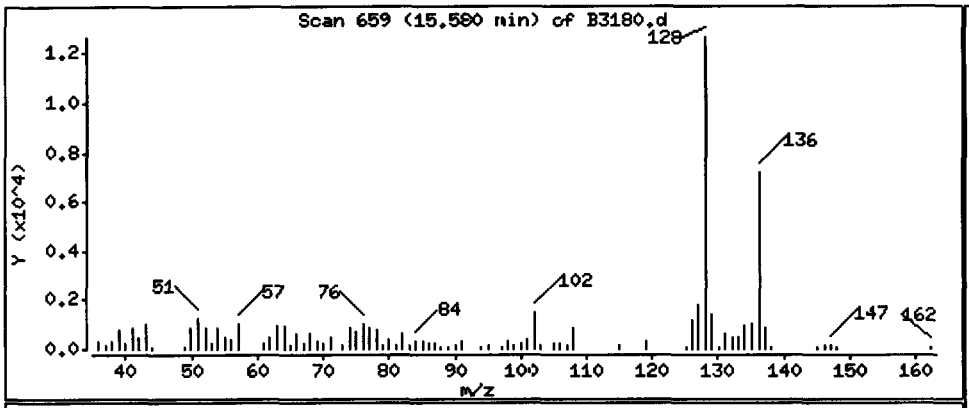
Volume Injected (uL): 2.0

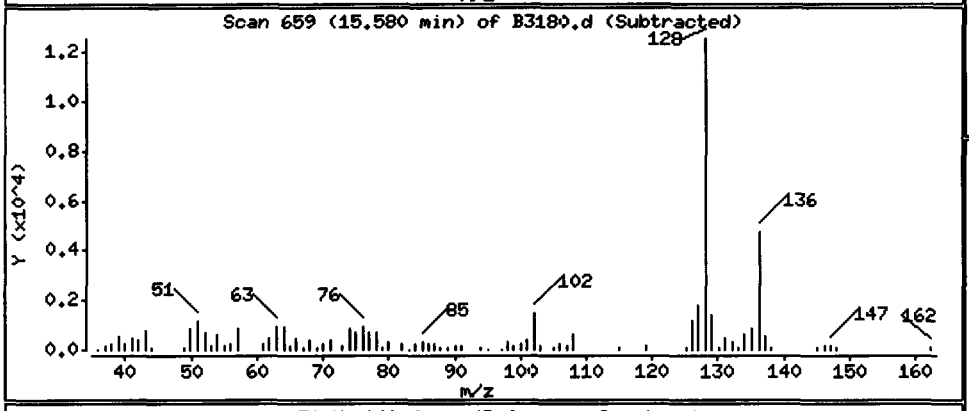
Operator: USER2 REG. GRP.

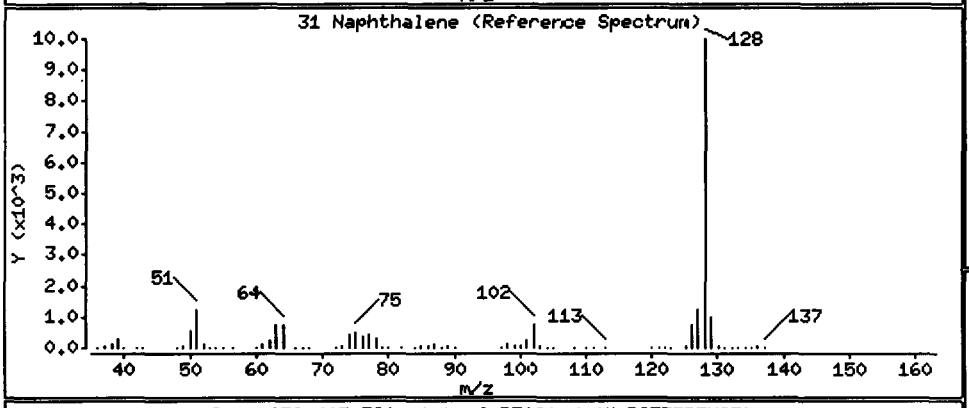
Column phase:

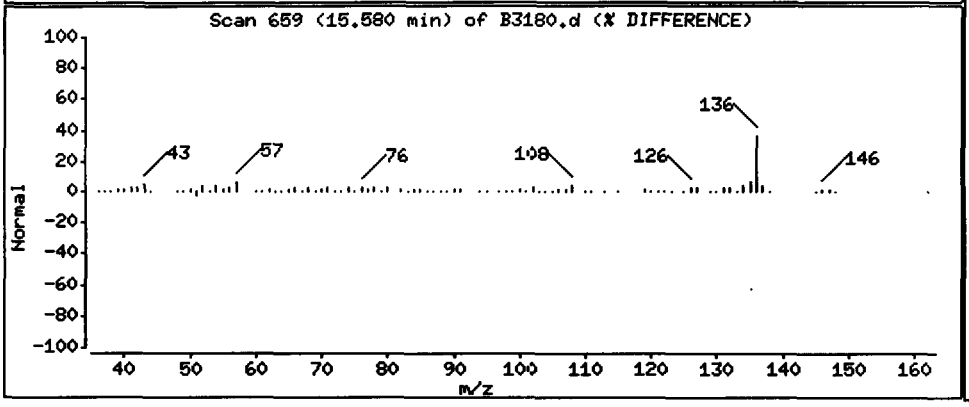
Column diameter: 0.25

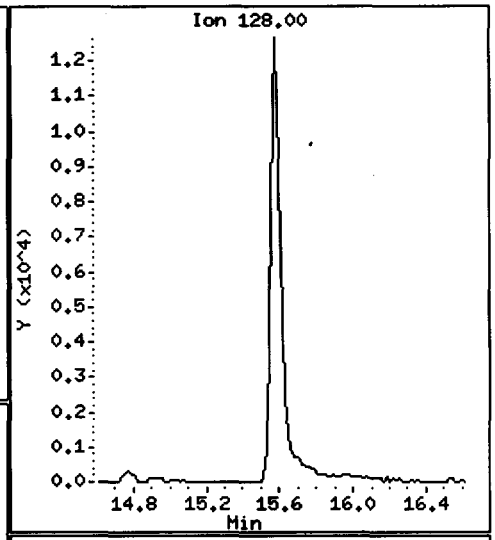
31 Naphthalene

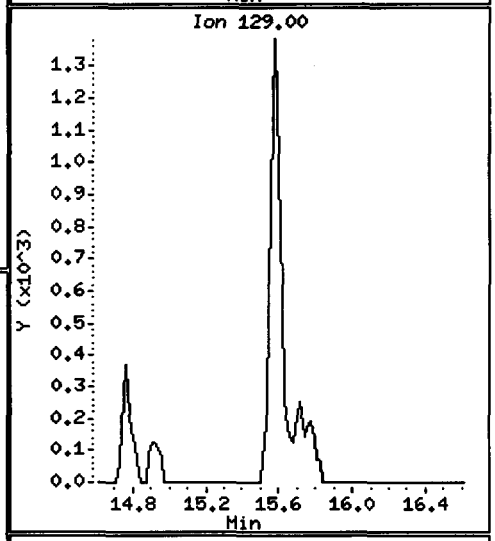


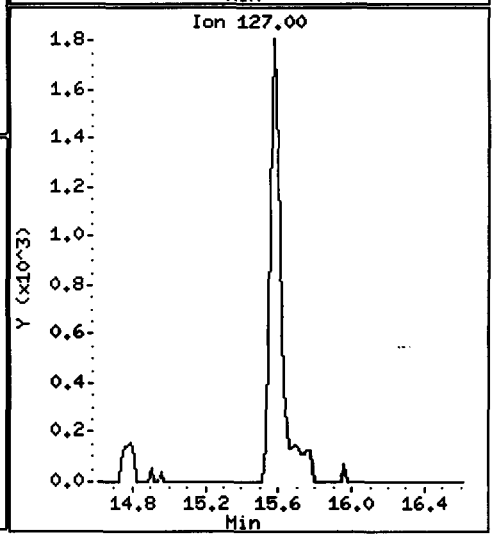












30

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q208DL

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: 65113DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3179

Level: (low/med) LOW Date Received: 04/22/97

% Moisture: 6 decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/01/97

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3500	J
91-57-6	2-Methylnaphthalene	18000	U
91-58-7	2-Chloronaphthalene	18000	U
208-96-8	Acenaphthylene	18000	U
83-32-9	Acenaphthene	18000	U
86-73-7	Fluorene	18000	U
85-01-8	Phenanthrene	18000	U
120-12-7	Anthracene	18000	U
206-44-0	Fluoranthene	18000	U
129-00-0	Pyrene	18000	U
56-55-3	Benzo(a)Anthracene	18000	U
218-01-9	Chrysene	18000	U
205-99-2	Benzo(b)Fluoranthene	18000	U
207-08-9	Benzo(k)Fluoranthene	18000	U
50-32-8	Benzo(a)Pyrene	18000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	18000	U
53-70-3	Dibenz(a,h)Anthracene	18000	U
191-24-2	Benzo(g,h,i)Perylene	18000	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.1

Data File: /var/chem/7002B.i/970501421r.b/B3179.d

Date : 01-MAY-97 21:37:00

Client ID:

Instrument: 7002B.i

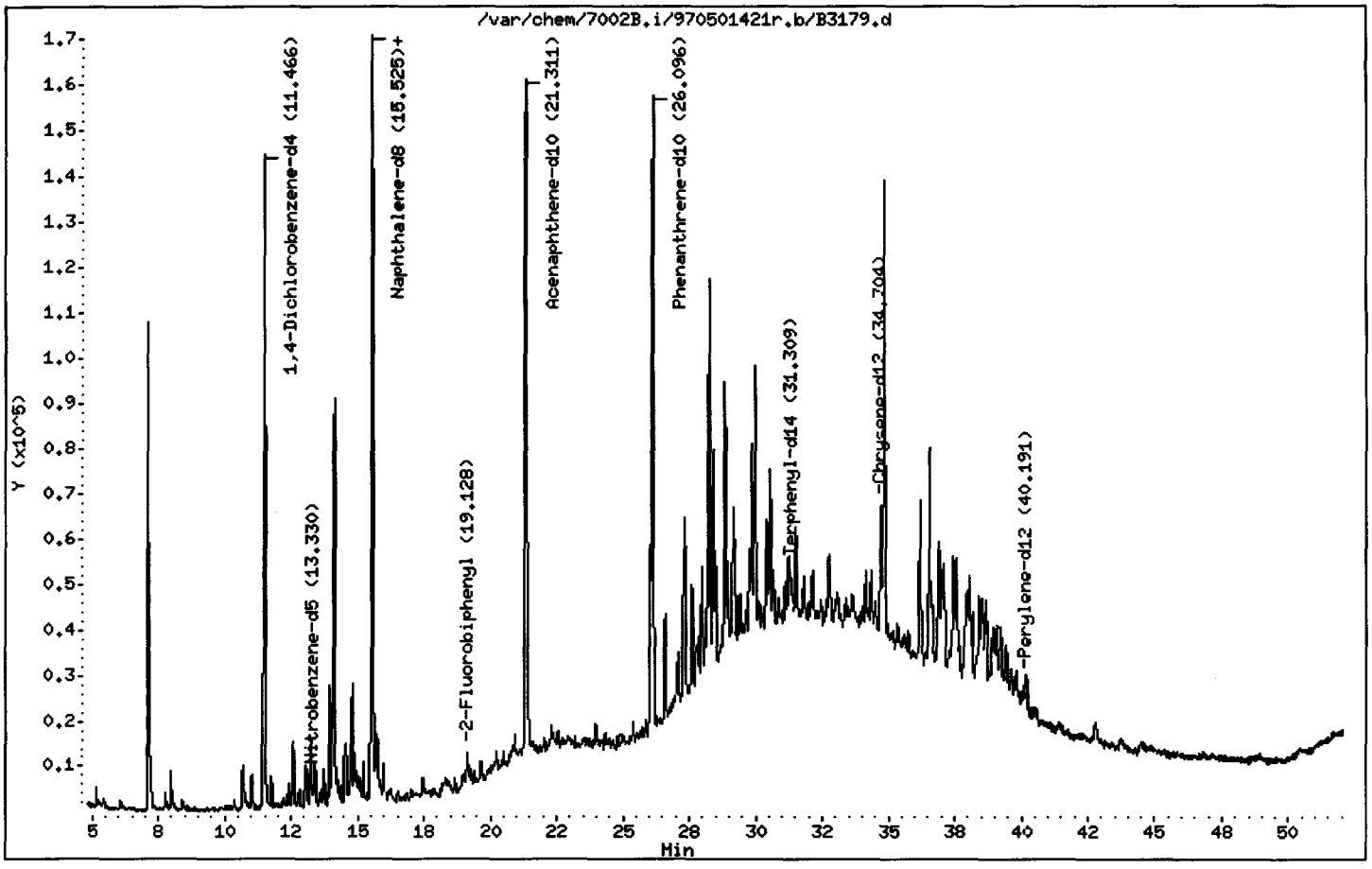
Sample Info: 9700.860 65113.01

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970501421r.b/B3179.d
Lab Smp Id:
Inj Date : 01-MAY-97 21:37:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : 9700.860 65113.01
Misc Info : [970501421R]{COBX71}970428480P,SBN_0A,DCE,4300 5X Q208BTL#
Comment :
Method : /var/chem/7002B.i/970501421r.b/cobx71.m
Meth Date : 01-May-97 17:18:56 dennis Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 11 1,4-Dichlorobenzene-d4	152	11.466	11.505	(1.000)	92631	40.0	
$ 21 Nitrobenzene-d5	82	13.330	13.373	(0.859)	6582	1.70	1420(aRM)
* 30 Naphthalene-d8	136	15.525	15.568	(1.000)	301807	40.0	
31 Naphthalene	128	15.574	15.617	(1.003)	32944	3.96	3300
$ 39 2-Fluorobiphenyl	172	19.128	19.169	(0.898)	14206	2.18	1820(R)
* 45 Acenaphthene-d10	164	21.311	21.329	(1.000)	168509	40.0	
* 62 Phenanthrene-d10	188	26.096	26.124	(1.000)	199051	40.0	
$ 70 Terphenyl-d14	244	31.309	31.339	(0.902)	5288	3.18	2650(R)
* 74 Chrysene-d12	240	34.704	34.741	(1.000)	36919	40.0	
* 81 Perylene-d12	264	40.191	40.199	(1.000)	16861	40.0	

QC Flag Legend

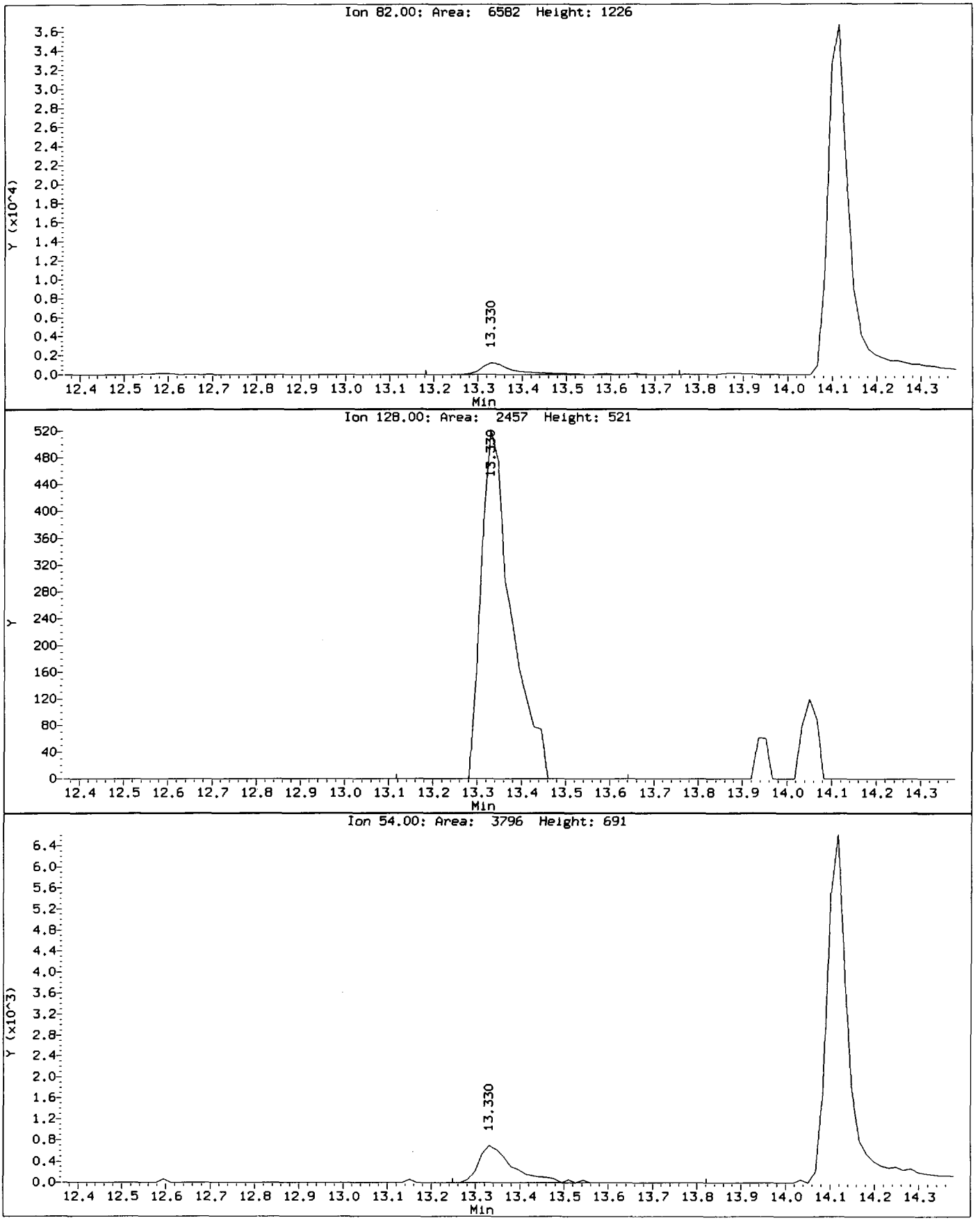
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/7002B.i/970501421r.b/B3179.d
Injection Date: 01-MAY-97 21:37:00
Instrument: 7002B.i
Client Sample ID:

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0



Data File: /var/chem/7002B.i/970501421r.b/B3179.d

Date : 01-MAY-97 21:37:00

Client ID:

Instrument: 7002B.i

Sample Info: 9700.860 65113.01

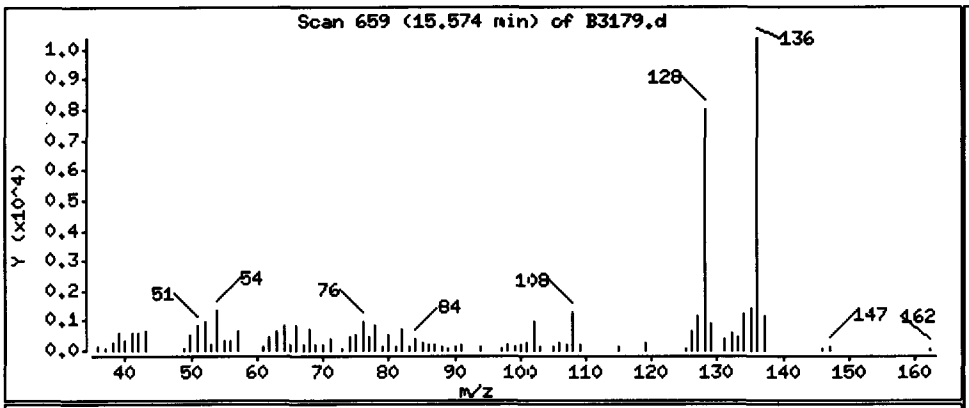
Volume Injected (uL): 2.0

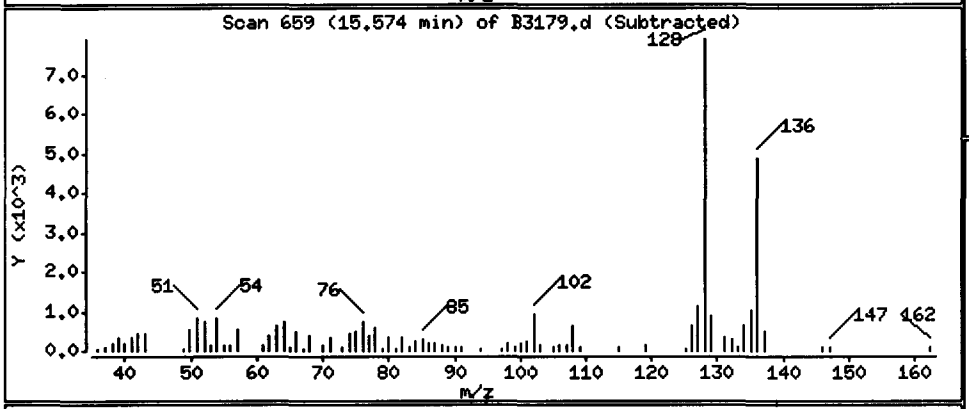
Operator: USER2 REG. GRP.

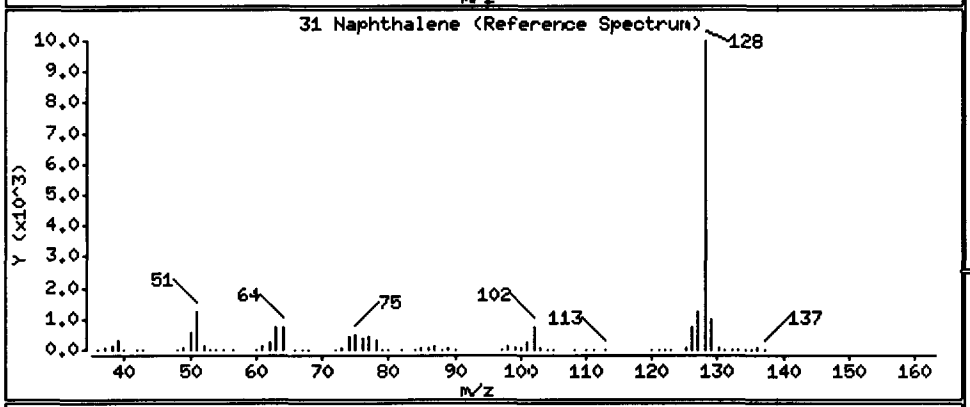
Column phase:

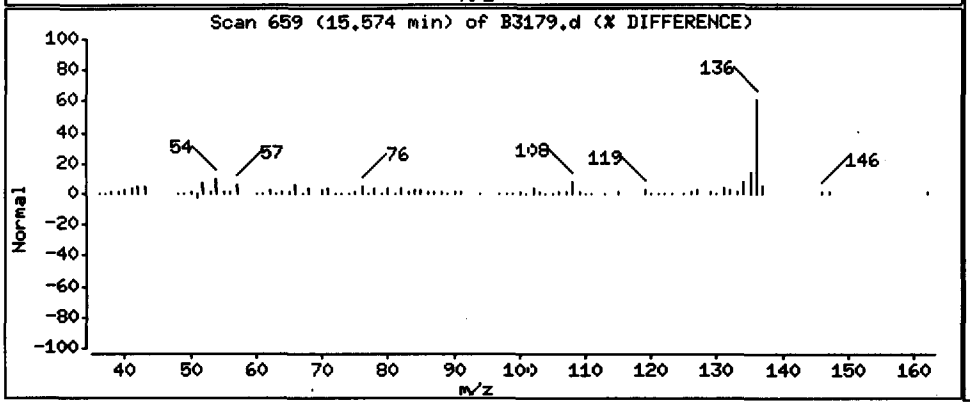
Column diameter: 0.25

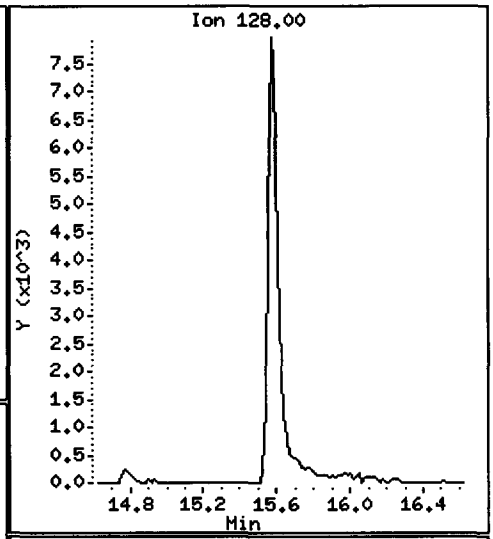
31 Naphthalene

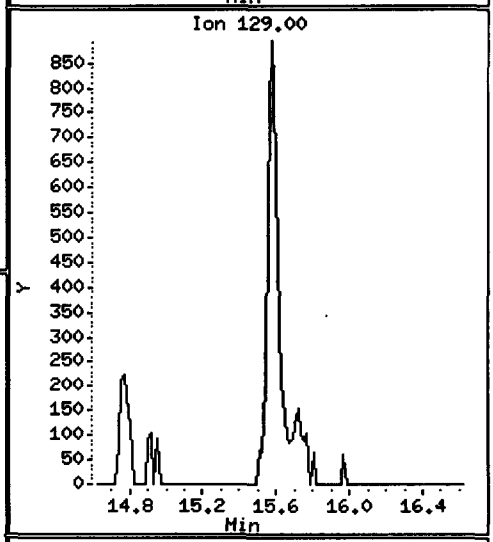


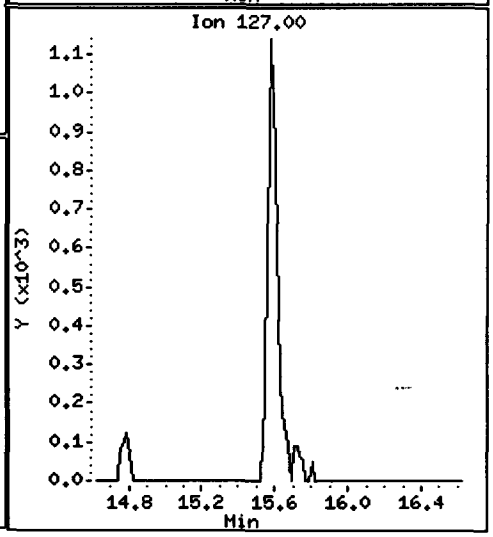












Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

4/22/97 1438

Start Cal Date : ~~14-APR-97 14:44:00~~
End Cal Date : 22-APR-97 19:53:00
Quant Method : ISTD
Target Version : 3.20
Integrator : HP RTE
Method file : /var/chem/7002B.i/970422421r.b/cobx71.m
Cal Date : 22-Apr-97 23:29:14 dennis

5/6/97

Calibration File Names:
Level 1: /var/chem/7002B.i/970422421r.b/B3042.d
Level 2: /var/chem/7002B.i/970422421r.b/B3041.d
Level 3: /var/chem/7002B.i/970422421r.b/B3043.d
Level 4: /var/chem/7002B.i/970422421r.b/B3044.d
Level 5: /var/chem/7002B.i/970422421r.b/B3045.d
Level 6: /var/chem/7002B.i/970422421r.b/B3046.d

Compound	20 Level 1	50 Level 2	80 Level 3	100 Level 4	120 Level 5	160 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2
1 n-Nitrosodimethylamine	0.82137	0.91545	0.93541	0.98756	1.01204	0.97222	AVRG		0.94068		7.23892
2 Pyridine	1.44728	1.52648	1.50480	1.56247	1.51575	1.64765	AVRG		1.53407		4.37171
5 Aniline	1.85554	1.95753	2.06874	2.09754	2.04137	2.02165	AVRG		2.00706		4.38863
6 Phenol	1.68766	1.87030	1.84030	1.96005	1.99370	1.97884	AVRG		1.88848		6.14521
7 bis(2-Chloroethyl)ether	1.38987	1.36987	1.46243	1.53714	1.51427	1.54682	AVRG		1.47007		5.16909
9 2-Chlorophenol	1.34137	1.39955	1.43024	1.48601	1.47622	1.51360	AVRG		1.44117		4.42092
10 1,3-Dichlorobenzene	1.55490	1.57198	1.61024	1.63227	1.65865	1.60134	AVRG		1.60490		2.37478
12 1,4-Dichlorobenzene	1.53516	1.63239	1.62662	1.67700	1.67270	1.65398	AVRG		1.63297		3.18989
14 Benzyl alcohol	0.66173	0.75430	0.78515	0.79575	0.81132	0.82220	AVRG		0.77174		7.61680

1

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Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

4/22/97 1438

Start Cal Date : ~~14-APR-97 14:44:00~~
End Cal Date : 22-APR-97 19:53:00
Quant Method : ISTD
Target Version : 3.20
Integrator : HP RTE
Method file : /var/chem/7002B.i/970422421r.b/cobx71.m
Cal Date : 22-Apr-97 23:29:14 dennis

5/6/97 AA

Compound	20 Level 1	50 Level 2	80 Level 3	100 Level 4	120 Level 5	160 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2
15 1,2-Dichlorobenzene	1.38304	1.48468	1.47472	1.51164	1.49781	1.47233	AVRG		1.47070		3.08749
16 2-Methylphenol	1.03153	1.12161	1.10499	1.18360	1.16153	1.20181	AVRG		1.13418		5.47919
17 2,2' oxybis(1 Chloropropane)	1.66743	1.85336	1.83606	1.86341	1.79550	1.84656	AVRG		1.81039		4.08031
18 4-Methylphenol	1.08506	1.18041	1.20524	1.29430	1.29184	1.27728	AVRG		1.22236		6.73870
19 n-Nitroso-di-n-propylamine	0.99016	1.06101	1.08752	1.10983	1.08825	1.10079	AVRG		1.07292		4.07949
20 Hexachloroethane	0.59812	0.61636	0.61457	0.64867	0.63637	0.63114	AVRG		0.62421		2.89181
22 Nitrobenzene	0.44637	0.48522	0.49131	0.51013	0.53292	0.53801	AVRG		0.50066		6.80185
23 Isophorone	0.85708	0.91237	0.92845	0.96527	0.96699	0.99662	AVRG		0.93780		5.29220
24 2-Nitrophenol	0.19342	0.23969	0.23220	0.24398	0.25552	0.26213	AVRG		0.23782		10.21110
25 2,4-Dimethylphenol	0.39545	0.41231	0.41813	0.44515	0.43387	0.44908	AVRG		0.42566		4.86379
26 bis(2-Chloroethoxy)methane	0.50364	0.53886	0.54317	0.56510	0.56040	0.57951	AVRG		0.54845		4.83297
27 2,4-Dichlorophenol	0.33834	0.36155	0.37079	0.38622	0.37169	0.38788	AVRG		0.36941		4.92962
28 Benzoic Acid	+++++	60149	104856	126764	151417	250499	QUAD	0.45750	4.73144	-1.09869	0.99955
29 1,2,4-Trichlorobenzene	0.38814	0.41287	0.40554	0.40293	0.39247	0.39665	AVRG		0.39977		2.27376
31 Naphthalene	1.08547	1.12166	1.12240	1.17187	1.11356	0.99167	AVRG		1.10111		5.48820
32 4-Chloroaniline	0.45367	0.49156	0.50622	0.50857	0.51422	0.52261	AVRG		0.49948		4.93780
33 Hexachlorobutadiene	0.24753	0.25726	0.24526	0.25081	0.23917	0.24130	AVRG		0.24689		2.66665

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Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

4/22/97 1438

Start Cal Date : ~~14-APR-97~~ 14:44:00
End Cal Date : 22-APR-97 19:53:00
Quant Method : ISTD
Target Version : 3.20
Integrator : HP RTE
Method file : /var/chem/7002B.i/970422421r.b/cobx71.m
Cal Date : 22-Apr-97 23:29:14 dennis

5/6/97 AL

Compound	20 Level 1	50 Level 2	80 Level 3	100 Level 4	120 Level 5	160 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2
34 4-Chloro-3-methylphenol	0.32594	0.36940	0.38837	0.39889	0.39794	0.40694	AVRG		0.38125		7.86865
35 2-Methylnaphthalene	0.61015	0.64228	0.63324	0.64138	0.63680	0.65316	AVRG		0.63617		2.26619
36 Hexachlorocyclopentadiene	0.31532	0.39076	0.40663	0.41666	0.41078	0.41684	AVRG		0.39283		9.96902
37 2,4,6-Trichlorophenol	0.41304	0.48047	0.47084	0.48068	0.45665	0.47327	AVRG		0.46249		5.57155
38 2,4,5-Trichlorophenol	+++++	0.47469	0.49093	0.51178	0.50019	0.49940	AVRG		0.49540		2.77523
40 2-Chloronaphthalene	1.19168	1.28363	1.26795	1.31000	1.23948	1.28314	AVRG		1.26265		3.30419
41 2-Nitroaniline	+++++	0.42252	0.45634	0.49287	0.48679	0.50265	AVRG		0.47223		6.93277
42 Dimethylphthalate	1.45396	1.53109	1.61667	1.63890	1.59825	1.56677	AVRG		1.56761		4.29627
43 Acenaphthylene	1.77651	1.93517	2.04965	2.09501	1.94088	1.86509	AVRG		1.94372		6.01444
44 2,6-Dinitrotoluene	0.28275	0.34751	0.33981	0.37210	0.36232	0.36214	AVRG		0.34444		9.39430
46 3-Nitroaniline	+++++	0.28164	0.30796	0.33490	0.32660	0.33977	AVRG		0.31817		7.46398
47 Acenaphthene	1.16944	1.24060	1.25767	1.28368	1.24785	1.25077	AVRG		1.24167		3.09009
48 2,4-Dinitrophenol	+++++	23571	40141	52869	58969	93487	LINR	0.68273	0.19725		0.99402
49 Dibenzofuran	1.57654	1.73348	1.74967	1.79524	1.72615	1.69615	AVRG		1.71287		4.33796
50 4-Nitrophenol	+++++	26432	47342	57595	64623	92433	QUAD	0.73011	3.61215	2.14449	0.99793
51 2,4-Dinitrotoluene	+++++	0.42923	0.45590	0.50390	0.49222	0.47691	AVRG		0.47163		6.30614
52 Diethylphthalate	1.44801	1.58229	1.65695	1.74357	1.66909	1.63236	AVRG		1.62204		6.17592

Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

4/22/97 1438

Start Cal Date : ~~14-APR-97 14:44:00~~
End Cal Date : 22-APR-97 19:53:00 5/6/97
Quant Method : ISTD
Target Version : 3.20
Integrator : HP RTE
Method file : /var/chem/7002B.i/970422421r.b/cobx71.m
Cal Date : 22-Apr-97 23:29:14 dennis

Compound	20 Level 1	50 Level 2	80 Level 3	100 Level 4	120 Level 5	160 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2
53 Fluorene	1.20187	1.27820	1.31411	1.32153	1.29838	1.25025	AVRG		1.27739		3.53196
54 4-Chlorophenyl-phenylether	0.62274	0.69781	0.66431	0.66710	0.65841	0.63053	AVRG		0.65682		4.13988
55 4-Nitroaniline	+++++	0.20308	0.23654	0.27426	0.25474	0.25767	AVRG		0.24526		11.05406
56 4,6-Dinitro-2-methylphenol	+++++	0.10504	0.11999	0.13374	0.14013	0.14591	AVRG		0.12896		12.78414
57 n-Nitrosodiphenylamine	0.56799	0.58519	0.58771	0.57789	0.58990	0.59457	AVRG		0.58388		1.63399
59 4-Bromophenyl-phenylether	0.27797	0.29109	0.27764	0.27634	0.26671	0.27325	AVRG		0.27717		2.88594
60 Hexachlorobenzene	0.35666	0.35420	0.33928	0.34830	0.33304	0.32305	AVRG		0.34242		3.80583
61 Pentachlorophenol	+++++	0.13365	0.15050	0.16747	0.17529	0.18371	AVRG		0.16212		12.38821
63 Phenanthrene	1.05845	1.15110	1.13648	1.19933	1.17292	1.18600	AVRG		1.15071		4.40007
64 Anthracene	1.03358	1.14412	1.14372	1.16955	1.14716	1.13745	AVRG		1.12926		4.26456
65 Carbazole	0.67905	0.77895	0.75148	0.83587	0.80271	0.83129	AVRG		0.77989		7.53622
66 di-n-Butylphthalate	1.40049	1.54761	1.46363	1.47965	1.47968	1.28526	AVRG		1.44272		6.25727
67 Fluoranthene	0.75760	0.87562	0.88375	0.93641	0.94220	0.92316	AVRG		0.88646		7.76280
68 Benzidine	+++++	26459	69860	78066	66817	105875	LINR	0.18329	0.33508		0.96378
69 Pyrene	2.16757	2.31518	2.17084	2.32203	2.32969	2.26856	AVRG		2.26231		3.32443
71 Butylbenzylphthalate	0.96786	1.05553	1.05865	1.14045	1.15765	1.12996	AVRG		1.08502		6.60230
72 Benzo(a)anthracene	1.22220	1.39286	1.35762	1.38347	1.40888	1.42820	AVRG		1.36554		5.42903

Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

4/22/97 1438

Start Cal Date : ~~14-APR-97 14:44:00~~
End Cal Date : 22-APR-97 19:53:00
Quant Method : ISTD
Target Version : 3.20
Integrator : HP RTE
Method file : /var/chem/7002B.i/970422421r.b/cobx71.m
Cal Date : 22-Apr-97 23:29:14 dennis

5/6/97 AM

Compound	20 Level 1	50 Level 2	80 Level 3	100 Level 4	120 Level 5	160 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2
73 3,3'-Dichlorobenzidine	0.24803	0.26487	0.27827	0.28351	0.27261	0.35735	AVRG		0.28411		13.35983
75 Chrysene	1.23181	1.25617	1.20860	1.36335	1.25318	1.33227	AVRG		1.27423		4.73323
76 bis(2-Ethylhexyl)phthalate	1.31373	1.41908	1.38482	1.46411	1.45731	1.46668	AVRG		1.41762		4.23418
77 di-n-Octylphthalate	1.91561	2.23174	2.33528	2.61635	2.66618	2.57321	AVRG		2.38973		12.04344
78 Benzo(b)fluoranthene	37900	105427	153226	251785	223556	312337	LINR	0.16450	1.32441		0.96594
79 Benzo(k)fluoranthene	1.30011	1.62936	1.74447	1.41075	1.56675	1.35531	AVRG		1.50112		11.53090
80 Benzo(a)pyrene	0.93468	1.03714	1.04387	1.09876	1.09490	1.10534	AVRG		1.05245		6.14641
82 Indeno(1,2,3-cd)pyrene	1.00502	1.13963	1.21041	1.24446	1.17987	1.21839	AVRG		1.16630		7.44264
83 Dibenzo(a,h)anthracene	0.79669	0.91329	0.97552	1.00276	0.96148	1.00416	AVRG		0.94232		8.35561
84 Benzo(g,h,i)perylene	0.88360	0.92854	0.97388	0.98097	0.94629	0.97004	AVRG		0.94722		3.88412
$ 3 2-Fluorophenol	1.17270	1.29243	1.30754	1.38552	1.35920	1.39673	AVRG		1.31902		6.28147
$ 4 Phenol-d5	1.48152	1.61876	1.64993	1.74205	1.75198	1.77334	AVRG		1.66960		6.62338
$ 8 2-Chlorophenol-d4	1.26397	1.33552	1.38150	1.42549	1.39877	1.40083	AVRG		1.36768		4.31196
$ 13 1,2-Dichlorobenzene-d4	0.89874	0.95360	0.96281	0.95445	0.93153	0.93309	AVRG		0.93904		2.48862
$ 21 Nitrobenzene-d5	0.44500	0.49219	0.50525	0.53774	0.54171	0.55771	AVRG		0.51327		8.05787
$ 39 2-Fluorobiphenyl	1.50750	1.54478	1.54791	1.58990	1.55631	1.52901	AVRG		1.54590		1.78558

Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

4/22/97 1438

Start Cal Date : ~~14-APR-97 14:44:00~~
End Cal Date : 22-APR-97 19:53:00
Quant Method : ISTD
Target Version : 3.20
Integrator : HP RTE
Method file : /var/chem/7002B.i/970422421r.b/cobx71.m
Cal Date : 22-Apr-97 23:29:14 dennis

5/6/97

Compound	20 Level 1	50 Level 2	80 Level 3	100 Level 4	120 Level 5	160 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2
$ 58 2,4,6-Tribromophenol	0.18492	0.23484	0.25042	0.26121	0.25855	0.24734	AVRG		0.23955		11.83008
$ 70 Terphenyl-d14	1.71780	1.85875	1.72543	1.86581	1.87517	1.74706	AVRG		1.79834		4.20092

Curve	Formula	Units
Averaged	y = (1/a1) * x	RRF
Linear	y = a0 + (1/a1) * x	Response
Quad	y = a0 + (a1 * x) + (a2 * (x^2))	Response

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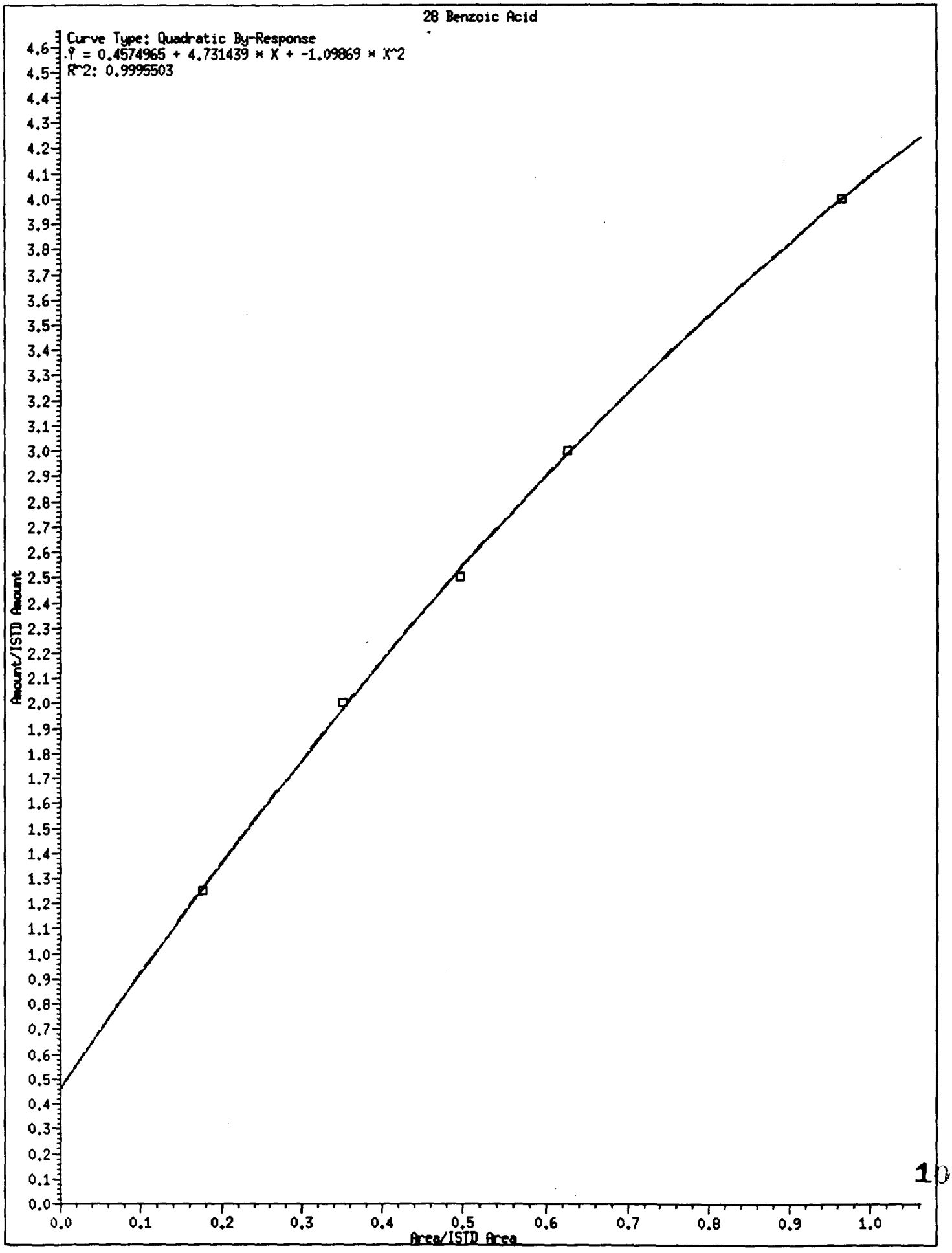
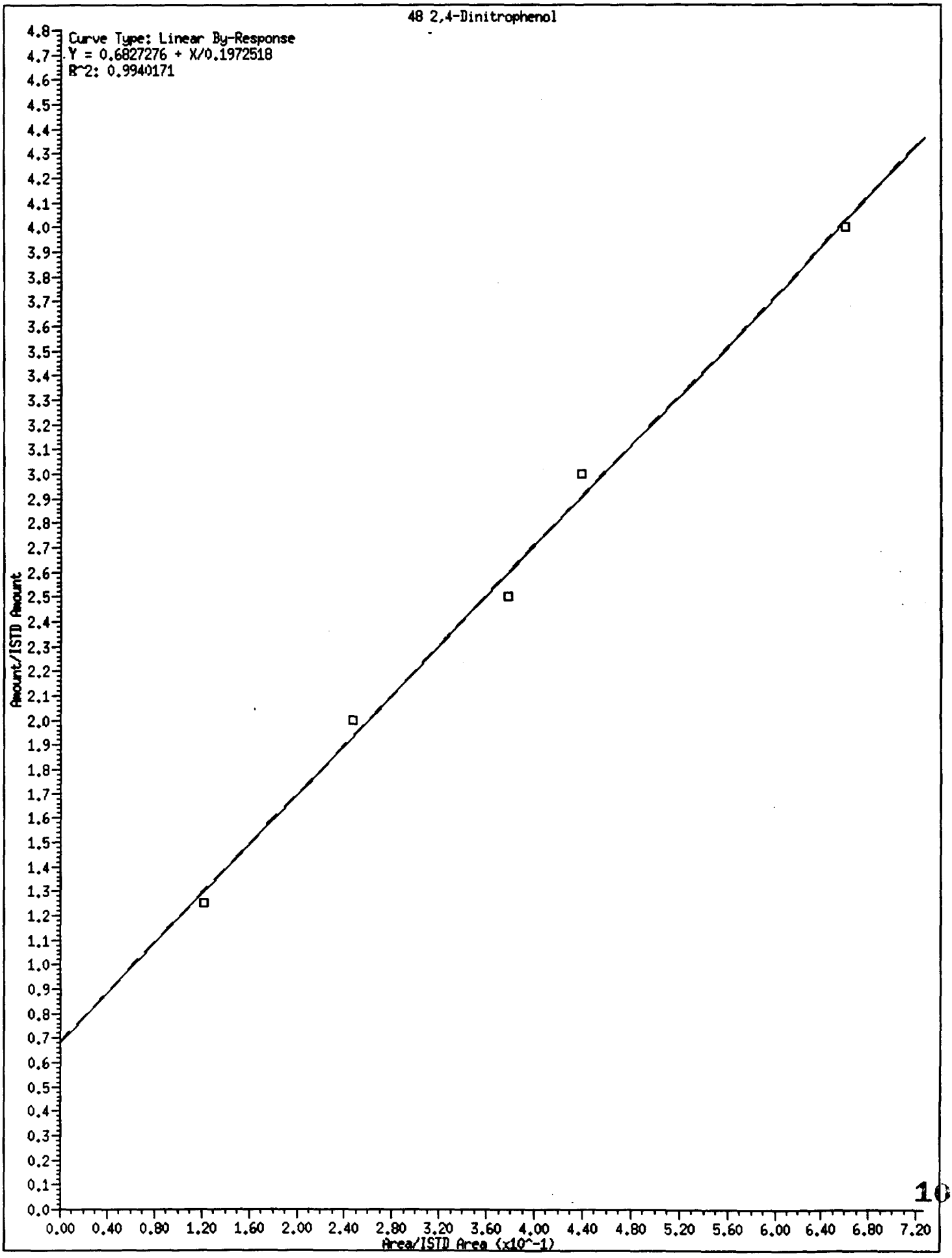
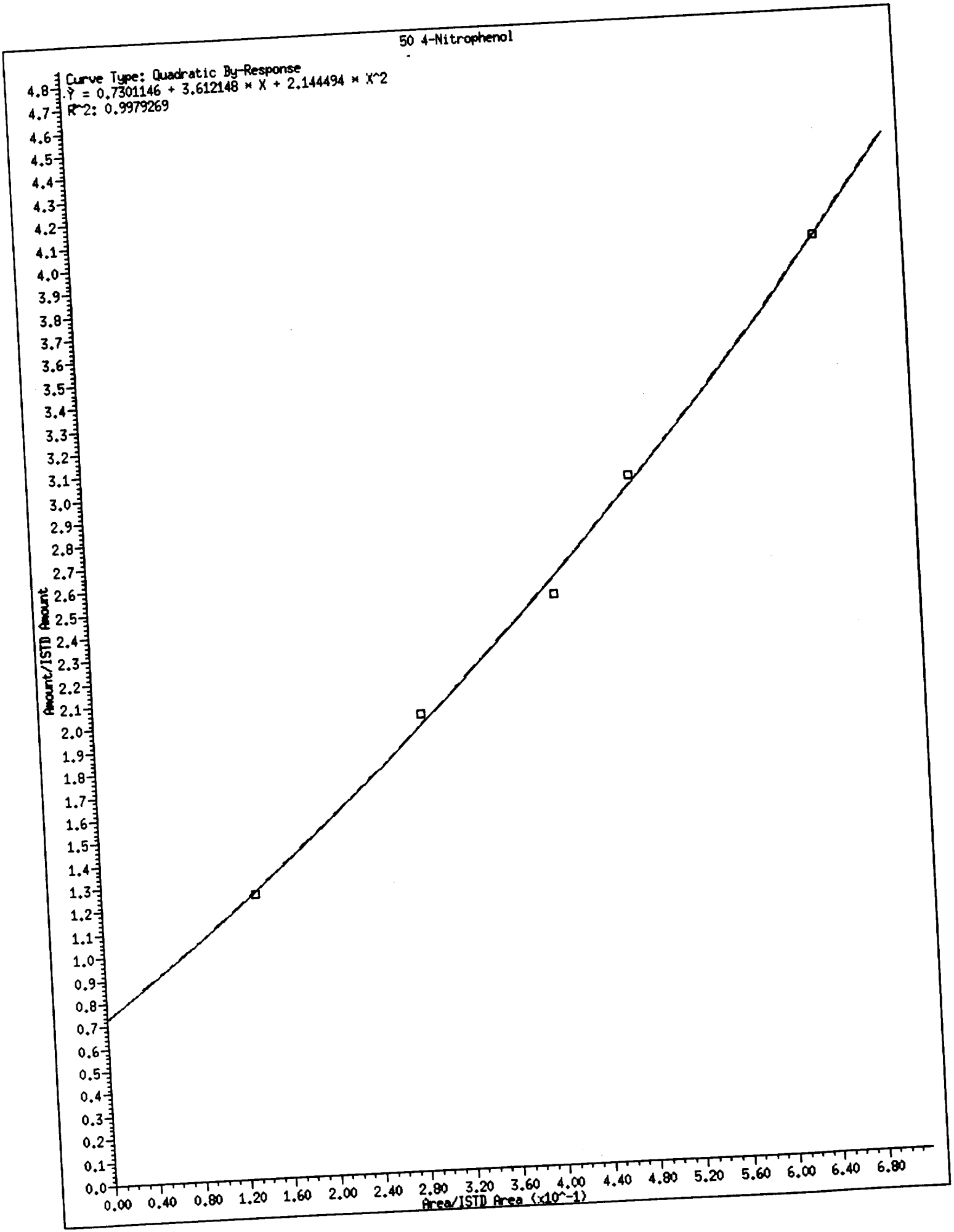
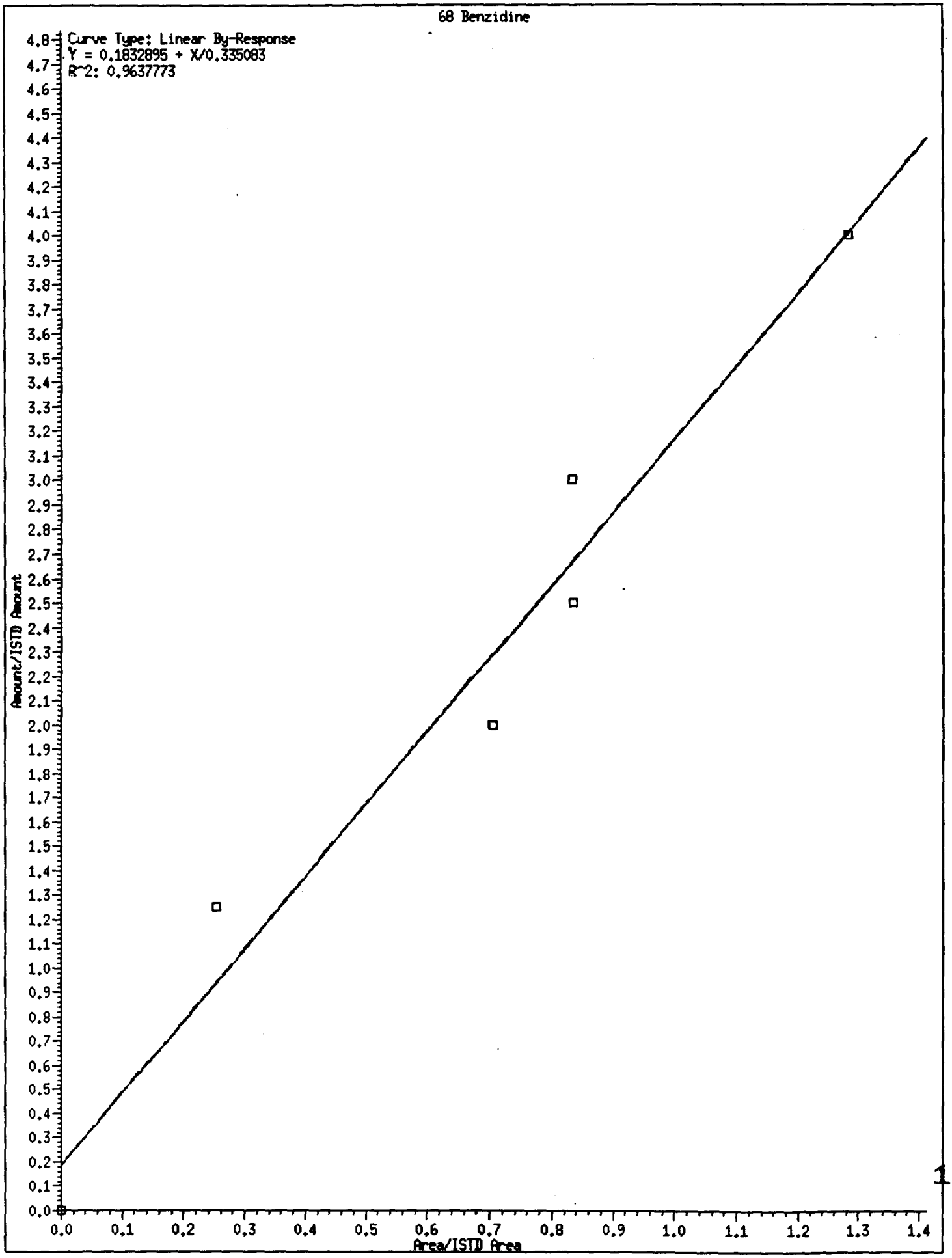
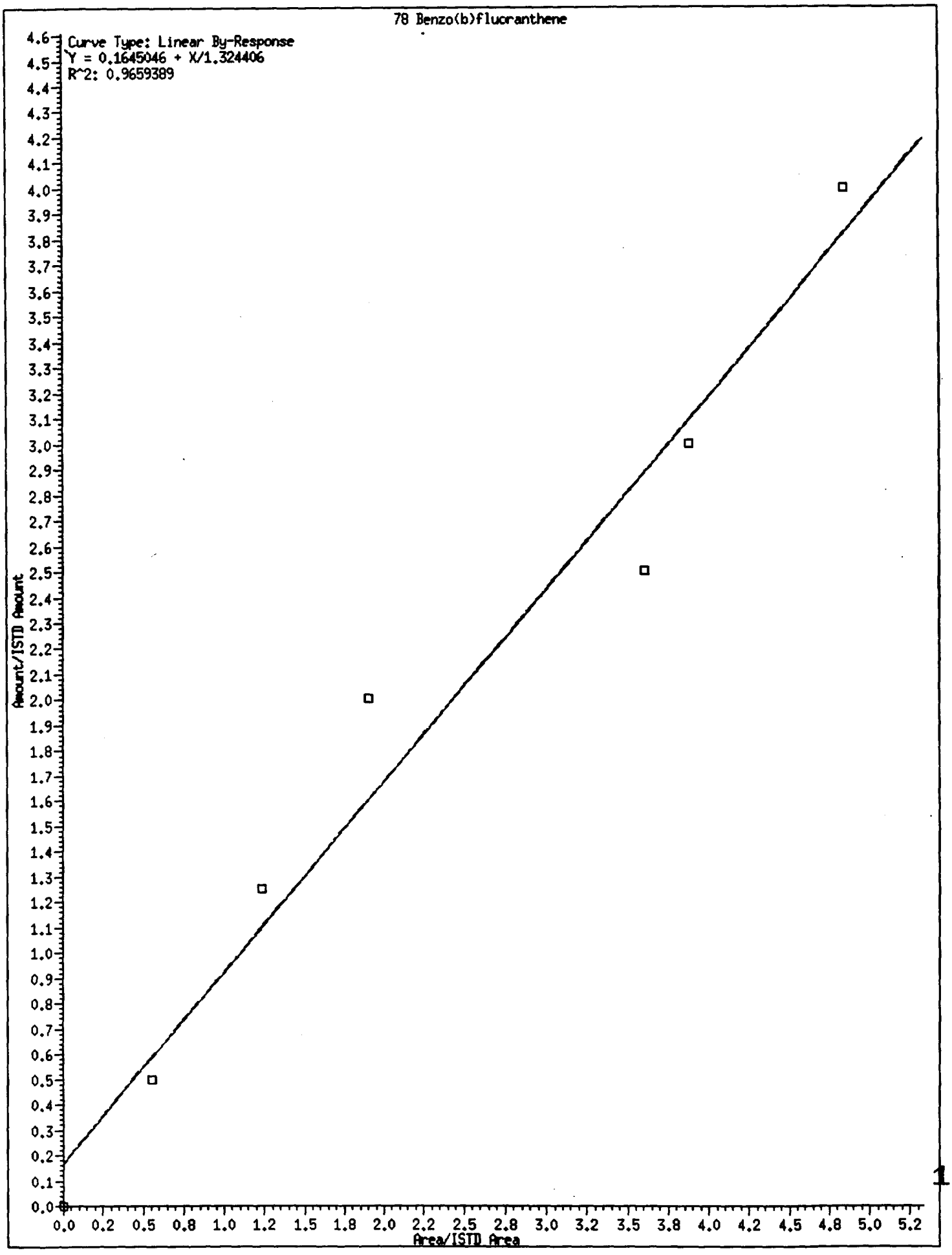

28 Benzoic Acid
Curve Type: Quadratic By-Response
Y = 0.4574965 + 4.731439 * X + -1.09869 * X^2
R^2: 0.9995503
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6


48 2,4-Dinitrophenol
Curve Type: Linear By-Response
Y = 0.6827276 + X/0.1972518
R^2: 0.9940171
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20


50 4-Nitrophenol
Curve Type: Quadratic By-Response
Y = 0.7301146 + 3.612148 * X^2
R^2: 0.9979269
Amount/ISTD Amount
Area/ISTD Area (x10^-1)


68 Benzidine
Curve Type: Linear By-Response
Y = 0.1832895 + X/0.335083
R^2: 0.9637773
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8


78 Benzo(b)fluoranthene
Curve Type: Linear By-Response
Y = 0.1645046 + X/1.324406
R^2: 0.9659389
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6
0.0 0.2 0.5 0.8 1.0 1.2 1.5 1.8 2.0 2.2 2.5 2.8 3.0 3.2 3.5 3.8 4.0 4.2 4.5 4.8 5.0 5.2

Data File: /var/chem/7002B.i/970422421r.b/B3041.d

Date : 22-APR-97 14:38:00

Client ID:

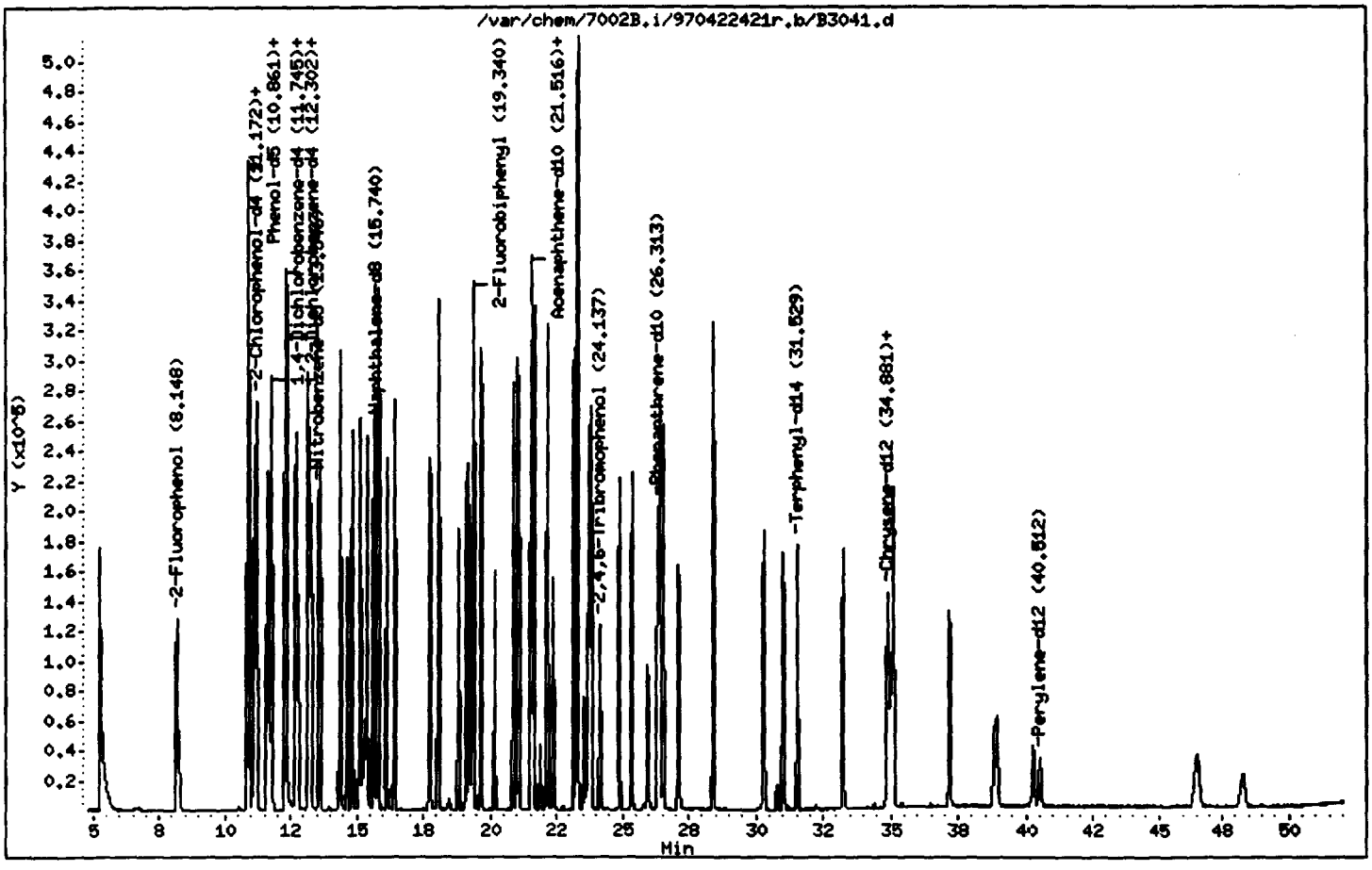
Instrument: 7002B.i

Sample Info: SSTD050

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970422421r.b/B3041.d
Lab Smp Id:
Inj Date : 22-APR-97 14:38:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD050
Misc Info : [970422421R]{COBX71},,MI, 1171-23-2 BTL#
Comment :
Method : /var/chem/7002B.i/970422421r.b/cobx71.m
Meth Date : 22-Apr-97 23:28:47 dennis Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 n-Nitrosodimethylamine	74	5.240	5.240	(0.448)	129254	50.0	48.6
	2 Pyridine	79	5.240	5.240	(0.448)	215528	50.0	49.8
$	3 2-Fluorophenol	112	8.148	8.148	(0.697)	182481	50.0	49.0
$	4 Phenol-d5	99	10.811	10.811	(0.924)	228557	50.0	48.5
	5 Aniline	93	10.877	10.877	(0.930)	276389	50.0	48.8
	6 Phenol	94	10.861	10.861	(0.929)	264073	50.0	49.5
	7 bis(2-Chloroethyl)ether	93	11.057	11.057	(0.945)	193416	50.0	46.6
$	8 2-Chlorophenol-d4	132	11.123	11.123	(0.951)	188565	50.0	48.8
	9 2-Chlorophenol	128	11.172	11.172	(0.955)	197606	50.0	48.6
	10 1,3-Dichlorobenzene	146	11.581	11.581	(0.990)	221952	50.0	49.0
*	11 1,4-Dichlorobenzene-d4	152	11.696	11.696	(1.000)	112954	40.0	
	12 1,4-Dichlorobenzene	146	11.745	11.745	(1.004)	230481	50.0	50.0
$	13 1,2-Dichlorobenzene-d4	152	12.269	12.269	(1.049)	134641	50.0	50.8
	14 Benzyl alcohol	108	12.252	12.252	(1.048)	106501	50.0	48.9
	15 1,2-Dichlorobenzene	146	12.318	12.318	(1.053)	209626	50.0	50.5
	16 2-Methylphenol	108	12.662	12.662	(1.083)	158363	50.0	49.4
	17 2,2'-oxybis(1-Chloropropane)	45	12.728	12.728	(1.088)	261680	50.0	51.2
	18 4-Methylphenol	108	13.137	13.137	(1.123)	166665	50.0	48.3
	19 n-Nitroso-di-n-propylamine	70	13.186	13.186	(1.127)	149806	50.0	49.4
	20 Hexachloroethane	117	13.252	13.252	(1.133)	87026	50.0	49.4
$	21 Nitrobenzene-d5	82	13.546	13.546	(0.861)	210404	50.0	47.9
	22 Nitrobenzene	77	13.596	13.596	(0.864)	207427	50.0	48.4
	23 Isophorone	82	14.348	14.348	(0.912)	390027	50.0	48.6
	24 2-Nitrophenol	139	14.626	14.626	(0.929)	102465	50.0	50.4
	25 2,4-Dimethylphenol	107	14.790	14.790	(0.940)	176257	50.0	48.4
	26 bis(2-Chloroethoxy)methane	93	15.101	15.101	(0.959)	230358	50.0	49.1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng
27 2,4-Dichlorophenol	162	15.363	15.363	(0.976)	154558	50.0	48.9
28 Benzoic Acid	122	15.297	15.297	(0.972)	60149	50.0	50.2
29 1,2,4-Trichlorobenzene	180	15.609	15.609	(0.992)	176496	50.0	51.6
* 30 Naphthalene-d8	136	15.740	15.740	(1.000)	341990	40.0	
31 Naphthalene	128	15.806	15.806	(1.004)	479494	50.0	50.9
32 4-Chloroaniline	127	16.101	16.101	(1.023)	210137	50.0	49.2
33 Hexachlorobutadiene	225	16.395	16.395	(1.042)	109974	50.0	52.2
34 4-Chloro-3-methylphenol	107	17.719	17.719	(1.126)	157913	50.0	48.4
35 2-Methylnaphthalene	141	18.046	18.046	(1.147)	274566	50.0	50.5
36 Hexachlorocyclopentadiene	237	18.799	18.799	(0.874)	95052	50.0	49.7
37 2,4,6-Trichlorophenol	196	19.110	19.110	(0.888)	116873	50.0	51.9
38 2,4,5-Trichlorophenol	196	19.225	19.225	(0.893)	115468	50.0	47.9
$ 39 2-Fluorobiphenyl	172	19.340	19.340	(0.899)	375764	50.0	50.0
40 2-Chloronaphthalene	162	19.635	19.635	(0.913)	312239	50.0	50.8
41 2-Nitroaniline	65	20.159	20.159	(0.937)	102776	50.0	44.7
42 Dimethylphthalate	163	20.845	20.845	(0.969)	372434	50.0	48.8
43 Acenaphthylene	152	21.009	21.009	(0.976)	470726	50.0	49.8
44 2,6-Dinitrotoluene	165	21.075	21.075	(0.979)	84532	50.0	50.4
* 45 Acenaphthene-d10	164	21.516	21.516	(1.000)	194598	40.0	
46 3-Nitroaniline	138	21.516	21.516	(1.000)	68509	50.0	44.2
47 Acenaphthene	153	21.632	21.632	(1.005)	301774	50.0	50.0
48 2,4-Dinitrophenol	184	21.861	21.861	(1.016)	23571	50.0	51.9
49 Dibenzofuran	168	22.139	22.139	(1.029)	421665	50.0	50.6
50 4-Nitrophenol	109	22.123	22.123	(1.028)	26432	50.0	50.4
51 2,4-Dinitrotoluene	165	22.352	22.352	(1.039)	104409	50.0	45.5
52 Diethylphthalate	149	23.153	23.153	(1.076)	384888	50.0	48.8
53 Fluorene	166	23.268	23.268	(1.081)	310920	50.0	50.0
54 4-Chlorophenyl-phenylether	204	23.285	23.285	(1.082)	169740	50.0	53.1
55 4-Nitroaniline	138	23.547	23.547	(1.094)	49399	50.0	41.4
56 4,6-Dinitro-2-methylphenol	198	23.662	23.662	(0.899)	38245	50.0	40.7
57 n-Nitrosodiphenylamine	169	23.728	23.728	(0.902)	213059	50.0	50.1
$ 58 2,4,6-Tribromophenol	330	24.137	24.137	(1.122)	57124	50.0	49.0
59 4-Bromophenyl-phenylether	248	24.857	24.857	(0.945)	105979	50.0	52.5
60 Hexachlorobenzene	284	25.331	25.331	(0.963)	128957	50.0	51.7
61 Pentachlorophenol	266	25.937	25.937	(0.986)	48661	50.0	41.2
* 62 Phenanthrene-d10	188	26.313	26.313	(1.000)	291266	40.0	
63 Phenanthrene	178	26.396	26.396	(1.003)	419096	50.0	50.0
64 Anthracene	178	26.527	26.527	(1.008)	416555	50.0	50.6
65 Carbazole	167	27.099	27.099	(1.030)	283602	50.0	49.9
66 di-n-Butylphthalate	149	28.407	28.407	(1.080)	563459	50.0	53.6
67 Fluoranthene	202	30.270	30.270	(1.150)	318798	50.0	49.4
68 Benzidine	184	30.760	30.760	(0.881)	26459	50.0	37.4
69 Pyrene	202	31.006	31.006	(0.888)	303832	50.0	51.2
$ 70 Terphenyl-d14	244	31.529	31.529	(0.903)	243933	50.0	51.7
71 Butylbenzylphthalate	149	33.213	33.213	(0.951)	138523	50.0	48.6
72 Benzo(a)anthracene	228	34.881	34.881	(0.999)	182792	50.0	51.0
73 3,3'-Dichlorobenzidine	252	34.865	34.865	(0.998)	34760	50.0	46.6

Data File: /var/chem/7002B.i/970422421r.b/B3041.d
Report Date: 22-Apr-97 23:28:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 74 Chrysene-d12	240	34.931	34.931	(1.000)	104988	40.0	
75 Chrysene	228	35.013	35.013	(1.002)	164853	50.0	49.3
76 bis(2-Ethylhexyl)phthalate	149	35.096	35.096	(1.005)	186233	50.0	50.0
77 di-n-Octylphthalate	149	37.173	37.173	(0.918)	239187	50.0	46.7
78 Benzo(b)fluoranthene	252	38.825	38.825	(0.958)	105427	50.0	43.7
79 Benzo(k)fluoranthene	252	38.908	38.908	(0.960)	174627	50.0	54.3
80 Benzo(a)pyrene	252	40.233	40.233	(0.993)	111155	50.0	49.3
* 81 Perylene-d12	264	40.512	40.512	(1.000)	85740	40.0	
82 Indeno(1,2,3-cd)pyrene	276	46.464	46.464	(1.147)	122140	50.0	48.8
83 Dibenzo(a,h)anthracene	278	46.563	46.563	(1.149)	97882	50.0	48.4
84 Benzo(g,h,i)perylene	276	48.248	48.248	(1.191)	99516	50.0	49.0

Data File: /var/chem/7002B.i/970422421r.b/B3042.d

Date: 22-APR-97 15:57:00

Client ID:

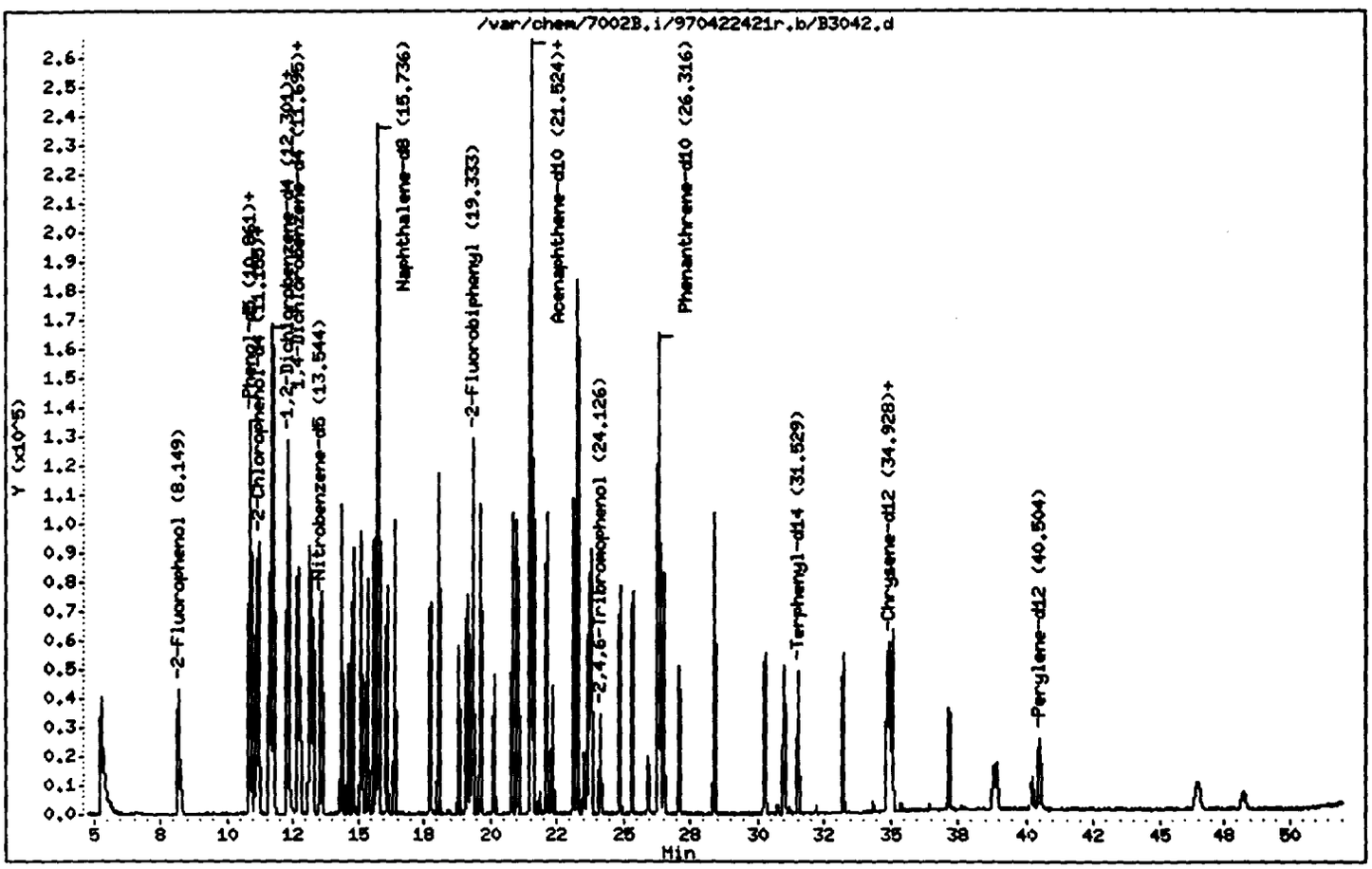
Instrument: 7002B.i

Sample Info: SSTD020

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970422421r.b/B3042.d
Lab Smp Id:
Inj Date : 22-APR-97 15:57:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD020
Misc Info : [970422421R]{COBX71},,MI, 1171-23-1 BTL#
Comment :
Method : /var/chem/7002B.i/970422421r.b/cobx71.m
Meth Date : 22-Apr-97 23:28:53 dennis Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 n-Nitrosodimethylamine	74	5.258	5.258	(0.450)	42678	20.0	17.5
	2 Pyridine	79	5.291	5.291	(0.452)	75200	20.0	18.9
$	3 2-Fluorophenol	112	8.149	8.149	(0.697)	60933	20.0	17.8
$	4 Phenol-d5	99	10.811	10.811	(0.924)	76979	20.0	17.7
	5 Aniline	93	10.877	10.877	(0.930)	96413	20.0	18.5
	6 Phenol	94	10.844	10.844	(0.927)	87690	20.0	17.9
	7 bis(2-Chloroethyl)ether	93	11.057	11.057	(0.945)	72217	20.0	18.9
$	8 2-Chlorophenol-d4	132	11.123	11.123	(0.951)	65675	20.0	18.5
	9 2-Chlorophenol	128	11.172	11.172	(0.955)	69697	20.0	18.6
	10 1,3-Dichlorobenzene	146	11.581	11.581	(0.990)	80792	20.0	19.4
*	11 1,4-Dichlorobenzene-d4	152	11.695	11.695	(1.000)	103919	40.0	
	12 1,4-Dichlorobenzene	146	11.745	11.745	(1.004)	79766	20.0	18.8
$	13 1,2-Dichlorobenzene-d4	152	12.268	12.268	(1.049)	46698	20.0	19.1
	14 Benzyl alcohol	108	12.252	12.252	(1.048)	34383	20.0	17.1
	15 1,2-Dichlorobenzene	146	12.317	12.317	(1.053)	71862	20.0	18.8
	16 2-Methylphenol	108	12.661	12.661	(1.083)	53598	20.0	18.2
	17 2,2'-oxybis(1-Chloropropane)	45	12.726	12.726	(1.088)	86639	20.0	18.4
	18 4-Methylphenol	108	13.119	13.119	(1.122)	56379	20.0	17.8
	19 n-Nitroso-di-n-propylamine	70	13.168	13.168	(1.126)	51448	20.0	18.4
	20 Hexachloroethane	117	13.266	13.266	(1.134)	31078	20.0	19.2
$	21 Nitrobenzene-d5	82	13.544	13.544	(0.861)	69557	20.0	17.3
	22 Nitrobenzene	77	13.594	13.594	(0.864)	69772	20.0	17.8
	23 Isophorone	82	14.345	14.345	(0.912)	133970	20.0	18.3
	24 2-Nitrophenol	139	14.623	14.623	(0.929)	30233	20.0	16.3
	25 2,4-Dimethylphenol	107	14.787	14.787	(0.940)	61813	20.0	18.6
	26 bis(2-Chloroethoxy)methane	93	15.097	15.097	(0.959)	78723	20.0	18.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
27 2,4-Dichlorophenol	162	15.359	15.359	(0.976)	52885	20.0	18.3
28 Benzoic Acid	122	15.163	15.163	(0.964)	14268	20.0	26.8
29 1,2,4-Trichlorobenzene	180	15.605	15.605	(0.992)	60670	20.0	19.4
* 30 Naphthalene-d8	136	15.736	15.736	(1.000)	312618	40.0	
31 Naphthalene	128	15.802	15.802	(1.004)	169669	20.0	19.7
32 4-Chloroaniline	127	16.096	16.096	(1.023)	70913	20.0	18.2
33 Hexachlorobutadiene	225	16.407	16.407	(1.043)	38691	20.0	20.0
34 4-Chloro-3-methylphenol	107	17.730	17.730	(1.127)	50948	20.0	17.1
35 2-Methylnaphthalene	141	18.041	18.041	(1.146)	95372	20.0	19.2
36 Hexachlorocyclopentadiene	237	18.793	18.793	(0.873)	28079	20.0	16.0
37 2,4,6-Trichlorophenol	196	19.103	19.103	(0.888)	36780	20.0	17.9
38 2,4,5-Trichlorophenol	196	19.218	19.218	(0.893)	37193	20.0	16.9
$ 39 2-Fluorobiphenyl	172	19.333	19.333	(0.898)	134240	20.0	19.5
40 2-Chloronaphthalene	162	19.628	19.628	(0.912)	106117	20.0	18.9
41 2-Nitroaniline	65	20.151	20.151	(0.936)	29566	20.0	14.1
42 Dimethylphthalate	163	20.837	20.837	(0.968)	129472	20.0	18.6
43 Acenaphthylene	152	21.001	21.001	(0.976)	158195	20.0	18.3
44 2,6-Dinitrotoluene	165	21.066	21.066	(0.979)	25178	20.0	16.4
* 45 Acenaphthene-d10	164	21.524	21.524	(1.000)	178096	40.0	
46 3-Nitroaniline	138	21.508	21.508	(0.999)	20397	20.0	14.4
47 Acenaphthene	153	21.623	21.623	(1.005)	104136	20.0	18.8
48 2,4-Dinitrophenol	184	21.852	21.852	(1.015)	3883	20.0	31.7
49 Dibenzofuran	168	22.130	22.130	(1.028)	140388	20.0	18.4
50 4-Nitrophenol	109	22.113	22.113	(1.027)	6603	20.0	34.7
51 2,4-Dinitrotoluene	165	22.343	22.343	(1.038)	28446	20.0	13.5
52 Diethylphthalate	149	23.127	23.127	(1.074)	128942	20.0	17.8
53 Fluorene	166	23.258	23.258	(1.081)	107024	20.0	18.8
54 4-Chlorophenyl-phenylether	204	23.274	23.274	(1.081)	55454	20.0	19.0
55 4-Nitroaniline	138	23.520	23.520	(1.093)	13102	20.0	12.0
56 4,6-Dinitro-2-methylphenol	198	23.651	23.651	(0.899)	8343	20.0	10.6
57 n-Nitrosodiphenylamine	169	23.717	23.717	(0.901)	69222	20.0	19.4
$ 58 2,4,6-Tribromophenol	330	24.126	24.126	(1.121)	16467	20.0	15.4
59 4-Bromophenyl-phenylether	248	24.861	24.861	(0.945)	33877	20.0	20.0
60 Hexachlorobenzene	284	25.335	25.335	(0.963)	43467	20.0	20.8
61 Pentachlorophenol	266	25.940	25.940	(0.986)	10955	20.0	11.1
* 62 Phenanthrene-d10	188	26.316	26.316	(1.000)	243742	40.0	
63 Phenanthrene	178	26.382	26.382	(1.002)	128994	20.0	18.4
64 Anthracene	178	26.529	26.529	(1.008)	125963	20.0	18.3
65 Carbazole	167	27.102	27.102	(1.030)	82757	20.0	17.4
66 di-n-Butylphthalate	149	28.392	28.392	(1.079)	170679	20.0	19.4
67 Fluoranthene	202	30.271	30.271	(1.150)	92330	20.0	17.1
68 Benzidine	184	30.744	30.744	(0.880)	6774	20.0	17.3
69 Pyrene	202	30.990	30.990	(0.887)	87531	20.0	19.2
$ 70 Terphenyl-d14	244	31.529	31.529	(0.903)	69368	20.0	19.1
71 Butylbenzylphthalate	149	33.212	33.212	(0.951)	39084	20.0	17.8
72 Benzo(a)anthracene	228	34.879	34.879	(0.999)	49355	20.0	17.9
73 3,3'-Dichlorobenzidine	252	34.862	34.862	(0.998)	10016	20.0	17.5

Data File: /var/chem/7002B.i/970422421r.b/B3042.d
Report Date: 22-Apr-97 23:28:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 74 Chrysene-d12	240	34.928	34.928	(1.000)	80764	40.0	
75 Chrysene	228	35.011	35.011	(1.002)	49743	20.0	19.3
76 bis(2-Ethylhexyl)phthalate	149	35.093	35.093	(1.005)	53051	20.0	18.5
77 di-n-Octylphthalate	149	37.168	37.168	(0.918)	64651	20.0	16.0
78 Benzo(b)fluoranthene	252	38.836	38.836	(0.959)	37900	20.0	23.5
79 Benzo(k)fluoranthene	252	38.885	38.885	(0.960)	43878	20.0	17.3
80 Benzo(a)pyrene	252	40.242	40.242	(0.994)	31545	20.0	17.8
* 81 Perylene-d12	264	40.504	40.504	(1.000)	67499	40.0	
82 Indeno(1,2,3-cd)pyrene	276	46.439	46.439	(1.147)	33919	20.0	17.2
83 Dibenzo(a,h)anthracene	278	46.570	46.570	(1.150)	26888	20.0	16.9
84 Benzo(g,h,i)perylene	276	48.237	48.237	(1.191)	29821	20.0	18.6

Data File: /var/chem/7002B.i/970422421r.b/B3043.d

Date : 22-APR-97 16:56:00

Instrument: 7002B.i

Client ID:

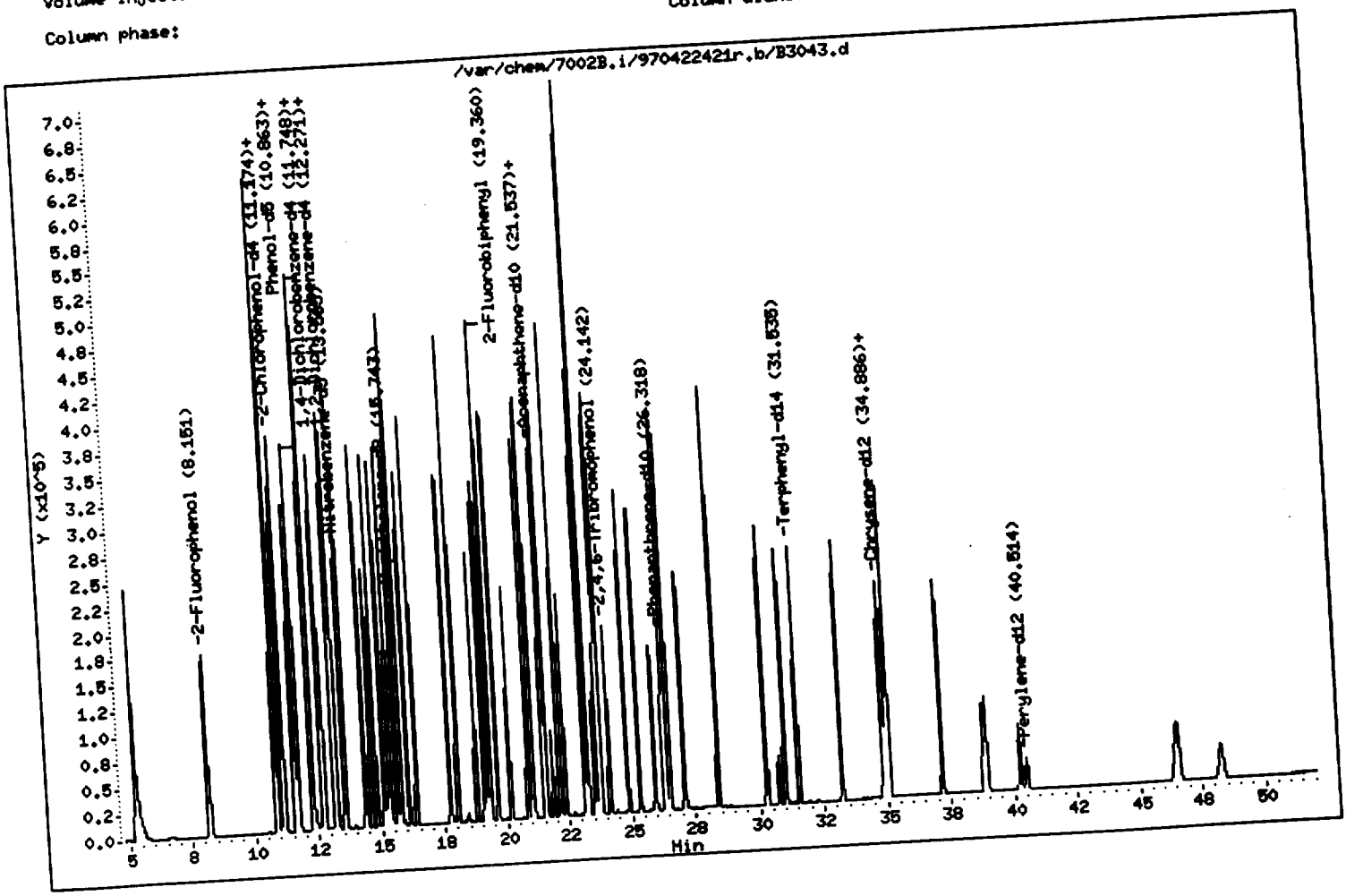
Sample Info: SSTD080

Operator: USER2 REG. GRP.

Volume Injected (uL): 2.0

Column diameter: 0.25

Column phase:



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970422421r.b/B3043.d
Lab Smp Id:
Inj Date : 22-APR-97 16:56:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD080
Misc Info : [970422421R]{COBX71},,MI, 1171-23-3 BTL#
Comment :
Method : /var/chem/7002B.i/970422421r.b/cobx71.m
Meth Date : 22-Apr-97 23:28:58 dennis Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 n-Nitrosodimethylamine	74	5.226	5.226	(0.447)	180198	80.0	79.6
	2 Pyridine	79	5.226	5.226	(0.447)	289885	80.0	78.5
$	3 2-Fluorophenol	112	8.151	8.151	(0.697)	251885	80.0	79.3
$	4 Phenol-d5	99	10.830	10.830	(0.926)	317843	80.0	79.0
	5 Aniline	93	10.879	10.879	(0.930)	398523	80.0	82.4
	6 Phenol	94	10.863	10.863	(0.929)	354515	80.0	78.0
	7 bis(2-Chloroethyl)ether	93	11.076	11.076	(0.947)	281723	80.0	79.6
$	8 2-Chlorophenol-d4	132	11.141	11.141	(0.952)	266132	80.0	80.8
	9 2-Chlorophenol	128	11.174	11.174	(0.955)	275522	80.0	79.4
	10 1,3-Dichlorobenzene	146	11.583	11.583	(0.990)	310197	80.0	80.3
*	11 1,4-Dichlorobenzene-d4	152	11.698	11.698	(1.000)	96320	40.0	
	12 1,4-Dichlorobenzene	146	11.748	11.748	(1.004)	313352	80.0	79.7
$	13 1,2-Dichlorobenzene-d4	152	12.271	12.271	(1.049)	185476	80.0	82.0
	14 Benzyl alcohol	108	12.255	12.255	(1.048)	151252	80.0	81.4
	15 1,2-Dichlorobenzene	146	12.320	12.320	(1.053)	284091	80.0	80.2

Data File: /var/chem/7002B.i/970422421r.b/B3043.d
Report Date: 22-Apr-97 23:29:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 2-Methylphenol	108	12.664	12.664	(1.083)	212866	80.0	77.9
17 2,2'-oxybis(1-Chloropropane)	45	12.730	12.730	(1.088)	353699	80.0	81.1
18 4-Methylphenol	108	13.156	13.156	(1.125)	232178	80.0	78.9
19 n-Nitroso-di-n-propylamine	70	13.221	13.221	(1.130)	209499	80.0	81.1
20 Hexachloroethane	117	13.254	13.254	(1.133)	118391	80.0	78.8
$ 21 Nitrobenzene-d5	82	13.549	13.549	(0.861)	303290	80.0	78.8
22 Nitrobenzene	77	13.615	13.615	(0.865)	294923	80.0	78.5
23 Isophorone	82	14.366	14.366	(0.913)	557330	80.0	79.2
24 2-Nitrophenol	139	14.612	14.612	(0.928)	139384	80.0	78.1
25 2,4-Dimethylphenol	107	14.809	14.809	(0.941)	250992	80.0	78.6
26 bis(2-Chloroethoxy)methane	93	15.120	15.120	(0.960)	326050	80.0	79.2
27 2,4-Dichlorophenol	162	15.366	15.366	(0.976)	222576	80.0	80.3
28 Benzoic Acid	122	15.399	15.399	(0.978)	104856	80.0	79.0
29 1,2,4-Trichlorobenzene	180	15.612	15.612	(0.992)	243437	80.0	81.2
* 30 Naphthalene-d8	136	15.743	15.743	(1.000)	300139	40.0	
31 Naphthalene	128	15.809	15.809	(1.004)	673755	80.0	81.5
32 4-Chloroaniline	127	16.104	16.104	(1.023)	303871	80.0	81.1
33 Hexachlorobutadiene	225	16.398	16.398	(1.042)	147226	80.0	79.5
34 4-Chloro-3-methylphenol	107	17.722	17.722	(1.126)	233132	80.0	81.5
35 2-Methylnaphthalene	141	18.050	18.050	(1.147)	380120	80.0	79.6
36 Hexachlorocyclopentadiene	237	18.802	18.802	(0.874)	132982	80.0	82.8
37 2,4,6-Trichlorophenol	196	19.113	19.113	(0.888)	153981	80.0	81.4
38 2,4,5-Trichlorophenol	196	19.228	19.228	(0.893)	160551	80.0	79.3
$ 39 2-Fluorobiphenyl	172	19.360	19.360	(0.900)	506219	80.0	80.1
40 2-Chloronaphthalene	162	19.639	19.639	(0.913)	414664	80.0	80.3
41 2-Nitroaniline	65	20.162	20.162	(0.937)	149239	80.0	77.3
42 Dimethylphthalate	163	20.865	20.865	(0.970)	528706	80.0	82.5
43 Acenaphthylene	152	21.012	21.012	(0.976)	670304	80.0	84.4
44 2,6-Dinitrotoluene	165	21.095	21.095	(0.980)	111129	80.0	78.9
* 45 Acenaphthene-d10	164	21.520	21.520	(1.000)	163517	40.0	
46 3-Nitroaniline	138	21.537	21.537	(1.001)	100713	80.0	77.4
47 Acenaphthene	153	21.635	21.635	(1.005)	411301	80.0	81.0
48 2,4-Dinitrophenol	184	21.881	21.881	(1.017)	40141	80.0	77.1
49 Dibenzofuran	168	22.143	22.143	(1.029)	572202	80.0	81.7
50 4-Nitrophenol	109	22.143	22.143	(1.029)	47342	80.0	78.2
51 2,4-Dinitrotoluene	165	22.356	22.356	(1.039)	149096	80.0	77.3
52 Diethylphthalate	149	23.157	23.157	(1.076)	541878	80.0	81.7
53 Fluorene	166	23.272	23.272	(1.081)	429760	80.0	82.3
54 4-Chlorophenyl-phenylether	204	23.289	23.289	(1.082)	217251	80.0	80.9
55 4-Nitroaniline	138	23.567	23.567	(1.095)	77355	80.0	77.2
56 4,6-Dinitro-2-methylphenol	198	23.682	23.682	(0.900)	61355	80.0	74.4
57 n-Nitrosodiphenylamine	169	23.732	23.732	(0.902)	300522	80.0	80.5
$ 58 2,4,6-Tribromophenol	330	24.142	24.142	(1.122)	81896	80.0	83.6
59 4-Bromophenyl-phenylether	248	24.861	24.861	(0.945)	141967	80.0	80.1
60 Hexachlorobenzene	284	25.336	25.336	(0.963)	173486	80.0	79.3
61 Pentachlorophenol	266	25.941	25.941	(0.986)	76955	80.0	74.3
* 62 Phenanthrene-d10	188	26.318	26.318	(1.000)	255671	40.0	

Data File: /var/chem/7002B.i/970422421r.b/B3043.d
Report Date: 22-Apr-97 23:29:01

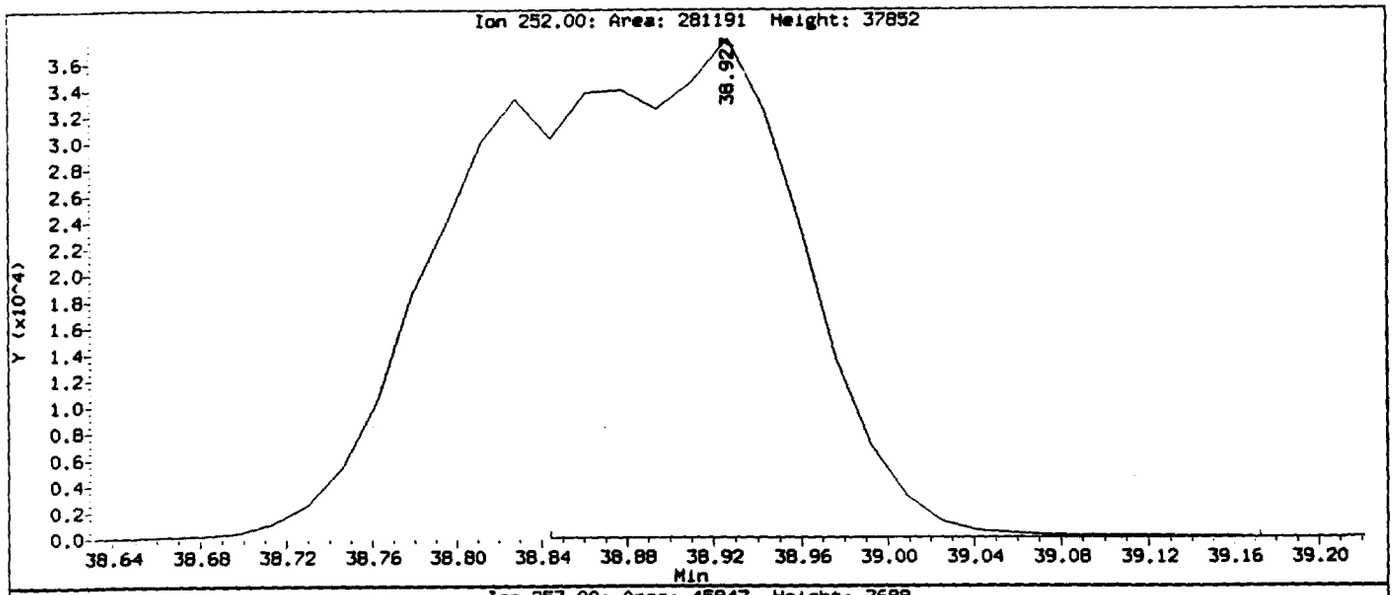
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng	
63 Phenanthrene	178	26.400	26.400	(1.003)	581130	80.0	79.[illegible]	
64 Anthracene	178	26.548	26.548	(1.009)	584834	80.0	81.[illegible]	
65 Carbazole	167	27.104	27.104	(1.030)	384264	80.0	77.[illegible]	
66 di-n-Butylphthalate	149	28.396	28.396	(1.079)	748418	80.0	81.[illegible]	
67 Fluoranthene	202	30.275	30.275	(1.150)	451900	80.0	79.[illegible]	
68 Benzidine	184	30.749	30.749	(0.880)	69860	80.0	91.[illegible]	
69 Pyrene	202	30.995	30.995	(0.887)	431359	80.0	76.[illegible]	
$ 70 Terphenyl-d14	244	31.535	31.535	(0.903)	342854	80.0	76.[illegible]	
71 Butylbenzylphthalate	149	33.218	33.218	(0.951)	210360	80.0	78.[illegible]	
72 Benzo(a)anthracene	228	34.886	34.886	(0.999)	269768	80.0	79.[illegible]	
73 3,3'-Dichlorobenzidine	252	34.870	34.870	(0.998)	55294	80.0	78.4	
* 74 Chrysene-d12	240	34.936	34.936	(1.000)	99353	40.0		
75 Chrysene	228	35.019	35.019	(1.002)	240156	80.0	75.9	
76 bis(2-Ethylhexyl)phthalate	149	35.085	35.085	(1.004)	275173	80.0	78.[illegible]	
77 di-n-Octylphthalate	149	37.177	37.177	(0.918)	376423	80.0	78.2	
78 Benzo(b)fluoranthene	252	38.828	38.828	(0.959)	153226	80.0	64.[illegible]	H)
79 Benzo(k)fluoranthene	252	38.927	38.927	(0.961)	281191	80.0	93.[illegible]	M)
80 Benzo(a)pyrene	252	40.251	40.251	(0.994)	168262	80.0	79.3	
* 81 Perylene-d12	264	40.497	40.497	(1.000)	80595	40.0		
82 Indeno(1,2,3-cd)pyrene	276	46.462	46.462	(1.147)	195106	80.0	83.[illegible]	
83 Dibenzo(a,h)anthracene	278	46.577	46.577	(1.150)	157244	80.0	82.8	
84 Benzo(g,h,i)perylene	276	48.261	48.261	(1.192)	156980	80.0	82.2	

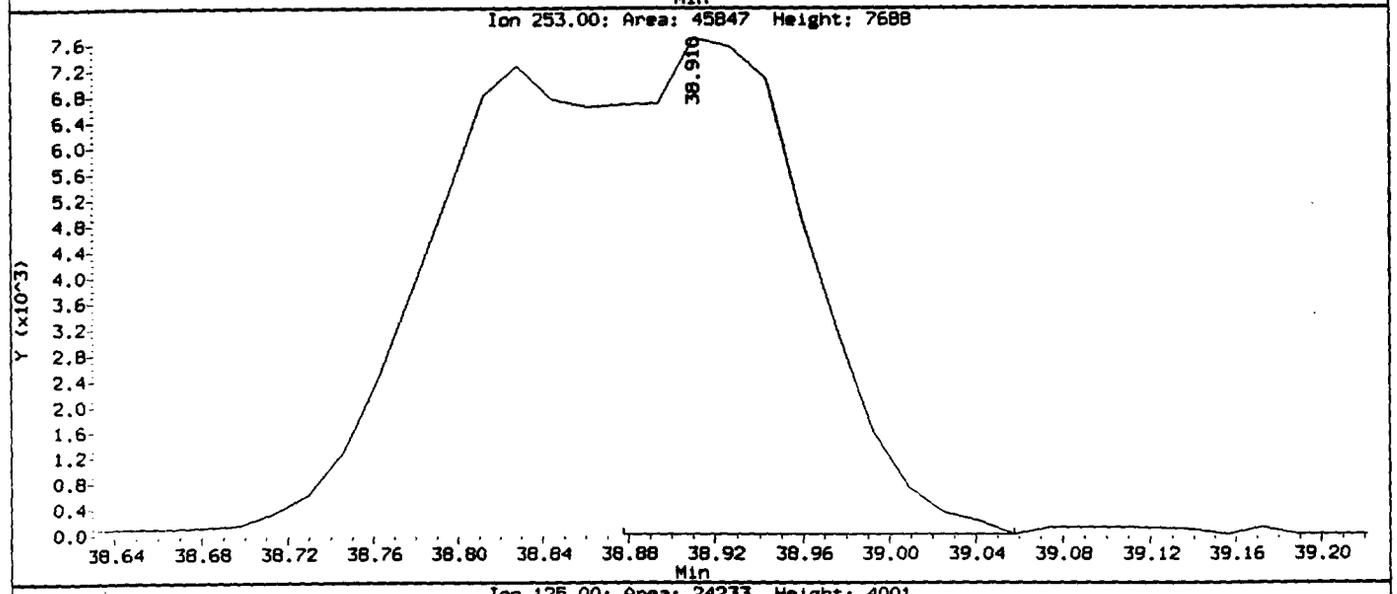
QC Flag Legend

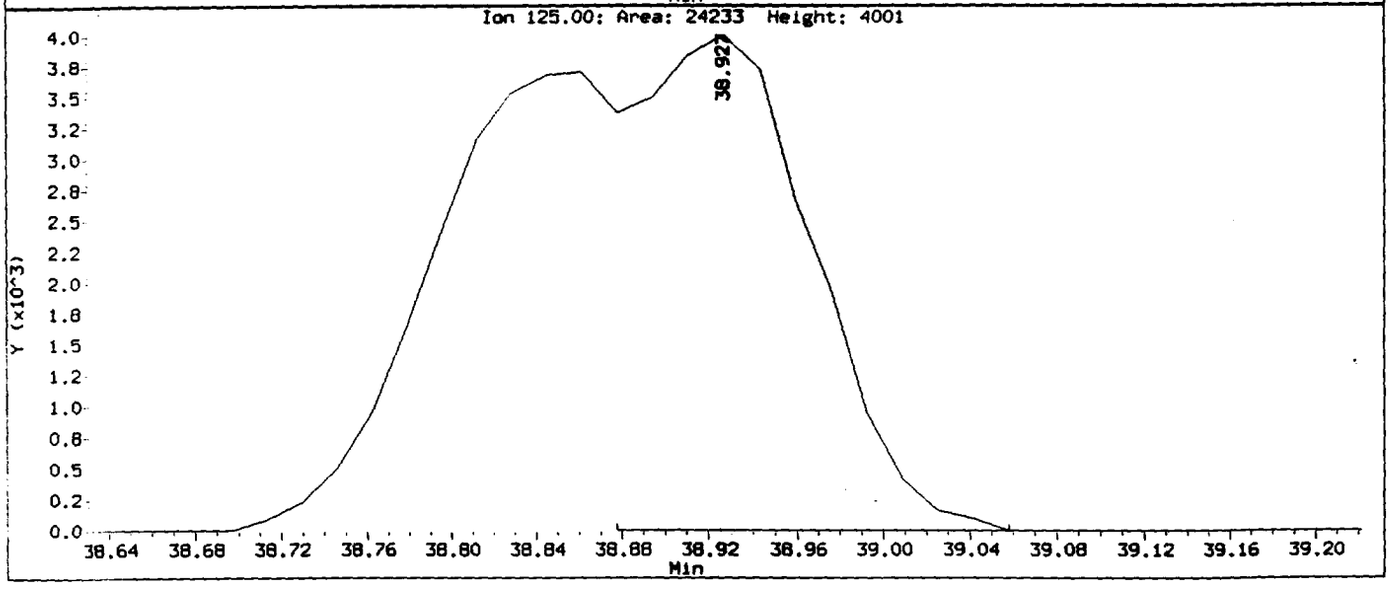
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/7002B.i/970422421r.b/B3043.d
Injection Date: 22-APR-97 16:56:00
Instrument: 7002B.i
Client Sample ID:

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9







120

Data File: /var/chem/7002B.i/970422421r.b/B3044.d

Date : 22-APR-97 17:55:00

Client ID:

Instrument: 7002B.i

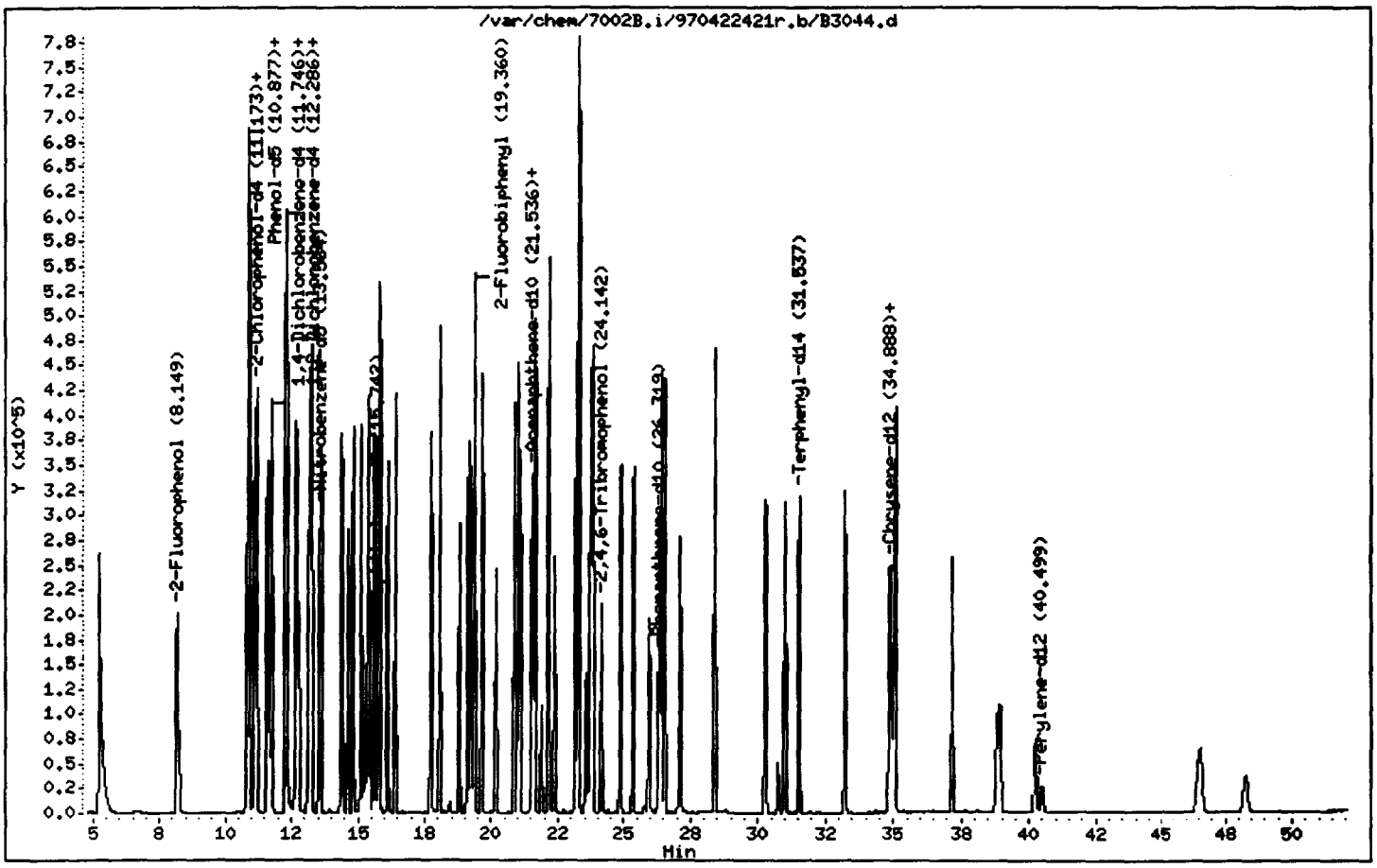
Sample Info: SSTD100

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970422421r.b/B3044.d
Lab Smp Id:
Inj Date : 22-APR-97 17:55:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD100
Misc Info : [970422421R]{COBX71},,MI, 1171-23-4 BTL#
Comment :
Method : /var/chem/7002B.i/970422421r.b/cobx71.m
Meth Date : 22-Apr-97 23:29:03 dennis Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng
	1	n-Nitrosodimethylamine	74	5.241	5.241	(0.448)	203917	100	105
	2	Pyridine	79	5.225	5.225	(0.447)	322626	100	102
$	3	2-Fluorophenol	112	8.149	8.149	(0.697)	286090	100	105
$	4	Phenol-d5	99	10.845	10.845	(0.927)	359708	100	104
	5	Aniline	93	10.877	10.877	(0.930)	433111	100	104
	6	Phenol	94	10.877	10.877	(0.930)	404721	100	104
	7	bis(2-Chloroethyl)ether	93	11.074	11.074	(0.947)	317396	100	104
$	8	2-Chlorophenol-d4	132	11.140	11.140	(0.952)	294342	100	104
	9	2-Chlorophenol	128	11.189	11.189	(0.957)	306838	100	103
	10	1,3-Dichlorobenzene	146	11.582	11.582	(0.990)	337039	100	102
*	11	1,4-Dichlorobenzene-d4	152	11.697	11.697	(1.000)	82594	40.0	
	12	1,4-Dichlorobenzene	146	11.746	11.746	(1.004)	346276	100	103
$	13	1,2-Dichlorobenzene-d4	152	12.270	12.270	(1.049)	197080	100	102
	14	Benzyl alcohol	108	12.270	12.270	(1.049)	164311	100	103
	15	1,2-Dichlorobenzene	146	12.319	12.319	(1.053)	312130	100	103

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	16 2-Methylphenol	108	12.663	12.663	(1.083)	244395	100	104
	17 2,2'-oxybis(1-Chloropropane)	45	12.729	12.729	(1.088)	384767	100	103
	18 4-Methylphenol	108	13.171	13.171	(1.126)	267254	100	106
	19 n-Nitroso-di-n-propylamine	70	13.220	13.220	(1.130)	229163	100	103
	20 Hexachloroethane	117	13.253	13.253	(1.133)	133940	100	104
$	21 Nitrobenzene-d5	82	13.564	13.564	(0.862)	343769	100	105
	22 Nitrobenzene	77	13.613	13.613	(0.865)	326118	100	102
	23 Isophorone	82	14.365	14.365	(0.913)	617080	100	103
	24 2-Nitrophenol	139	14.627	14.627	(0.929)	155974	100	102
	25 2,4-Dimethylphenol	107	14.807	14.807	(0.941)	284578	100	104
	26 bis(2-Chloroethoxy)methane	93	15.118	15.118	(0.960)	361261	100	103
	27 2,4-Dichlorophenol	162	15.381	15.381	(0.977)	246902	100	104
	28 Benzoic Acid	122	15.447	15.447	(0.981)	126764	100	101
	29 1,2,4-Trichlorobenzene	180	15.611	15.611	(0.992)	257589	100	101
*	30 Naphthalene-d8	136	15.742	15.742	(1.000)	255713	40.0	
	31 Naphthalene	128	15.808	15.808	(1.004)	749157	100	106
	32 4-Chloroaniline	127	16.102	16.102	(1.023)	325122	100	102
	33 Hexachlorobutadiene	225	16.397	16.397	(1.042)	160341	100	102
	34 4-Chloro-3-methylphenol	107	17.737	17.737	(1.127)	255004	100	105
	35 2-Methylnaphthalene	141	18.065	18.065	(1.148)	410020	100	101
	36 Hexachlorocyclopentadiene	237	18.801	18.801	(0.874)	146259	100	106
	37 2,4,6-Trichlorophenol	196	19.112	19.112	(0.888)	168733	100	104
	38 2,4,5-Trichlorophenol	196	19.228	19.228	(0.893)	179651	100	103
$	39 2-Fluorobiphenyl	172	19.360	19.360	(0.900)	558104	100	103
	40 2-Chloronaphthalene	162	19.638	19.638	(0.913)	459848	100	104
	41 2-Nitroaniline	65	20.161	20.161	(0.937)	173013	100	104
	42 Dimethylphthalate	163	20.864	20.864	(0.970)	575303	100	104
	43 Acenaphthylene	152	21.012	21.012	(0.976)	735413	100	108
	44 2,6-Dinitrotoluene	165	21.094	21.094	(0.980)	130620	100	108
*	45 Acenaphthene-d10	164	21.520	21.520	(1.000)	140412	40.0	
	46 3-Nitroaniline	138	21.536	21.536	(1.001)	117560	100	105
	47 Acenaphthene	153	21.635	21.635	(1.005)	450611	100	103
	48 2,4-Dinitrophenol	184	21.880	21.880	(1.017)	52869	100	104
	49 Dibenzofuran	168	22.159	22.159	(1.030)	630184	100	105
	50 4-Nitrophenol	109	22.142	22.142	(1.029)	57595	100	103
	51 2,4-Dinitrotoluene	165	22.372	22.372	(1.040)	176884	100	107
	52 Diethylphthalate	149	23.173	23.173	(1.077)	612045	100	107
	53 Fluorene	166	23.272	23.272	(1.081)	463895	100	103
	54 4-Chlorophenyl-phenylether	204	23.289	23.289	(1.082)	234173	100	102
	55 4-Nitroaniline	138	23.584	23.584	(1.096)	96273	100	112
	56 4,6-Dinitro-2-methylphenol	198	23.699	23.699	(0.900)	77252	100	104
	57 n-Nitrosodiphenylamine	169	23.748	23.748	(0.902)	333805	100	99.0
$	58 2,4,6-Tribromophenol	330	24.142	24.142	(1.122)	91692	100	109
	59 4-Bromophenyl-phenylether	248	24.861	24.861	(0.945)	159622	100	99.7
	60 Hexachlorobenzene	284	25.336	25.336	(0.963)	201189	100	102
	61 Pentachlorophenol	266	25.942	25.942	(0.986)	96736	100	103
*	62 Phenanthrene-d10	188	26.319	26.319	(1.000)	231050	40.0	

Data File: /var/chem/7002B.i/970422421r.b/B3044.d
Report Date: 22-Apr-97 23:29:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng
63 Phenanthrene	178	26.401	26.401	(1.003)	692764	100	104
64 Anthracene	178	26.549	26.549	(1.009)	675559	100	104
65 Carbazole	167	27.105	27.105	(1.030)	482818	100	107
66 di-n-Butylphthalate	149	28.397	28.397	(1.079)	854682	100	102
67 Fluoranthene	202	30.276	30.276	(1.150)	540893	100	106
68 Benzidine	184	30.750	30.750	(0.880)	78066	100	107
69 Pyrene	202	31.013	31.013	(0.888)	544000	100	103
$ 70 Terphenyl-d14	244	31.537	31.537	(0.903)	437118	100	104
71 Butylbenzylphthalate	149	33.220	33.220	(0.951)	267181	100	105
72 Benzo(a)anthracene	228	34.888	34.888	(0.999)	324115	100	101
73 3,3'-Dichlorobenzidine	252	34.871	34.871	(0.998)	66419	100	99.6
* 74 Chrysene-d12	240	34.938	34.938	(1.000)	93711	40.0	
75 Chrysene	228	35.020	35.020	(1.002)	319403	100	107
76 bis(2-Ethylhexyl)phthalate	149	35.087	35.087	(1.004)	343009	100	103
77 di-n-Octylphthalate	149	37.178	37.178	(0.918)	456861	100	109
78 Benzo(b)fluoranthene	252	38.830	38.830	(0.959)	251785	100	115
79 Benzo(k)fluoranthene	252	38.912	38.912	(0.961)	246341	100	94.0
80 Benzo(a)pyrene	252	40.237	40.237	(0.994)	191863	100	104
* 81 Perylene-d12	264	40.499	40.499	(1.000)	69847	40.0	
82 Indeno(1,2,3-cd)pyrene	276	46.481	46.481	(1.148)	217305	100	107
83 Dibenzo(a,h)anthracene	278	46.579	46.579	(1.150)	175100	100	106
84 Benzo(g,h,i)perylene	276	48.263	48.263	(1.192)	171294	100	104

Data File: /var/chem/7002B.i/970422421r.b/B3045.d

Date : 22-APR-97 18:54:00

Instrument: 7002B.i

Client ID:

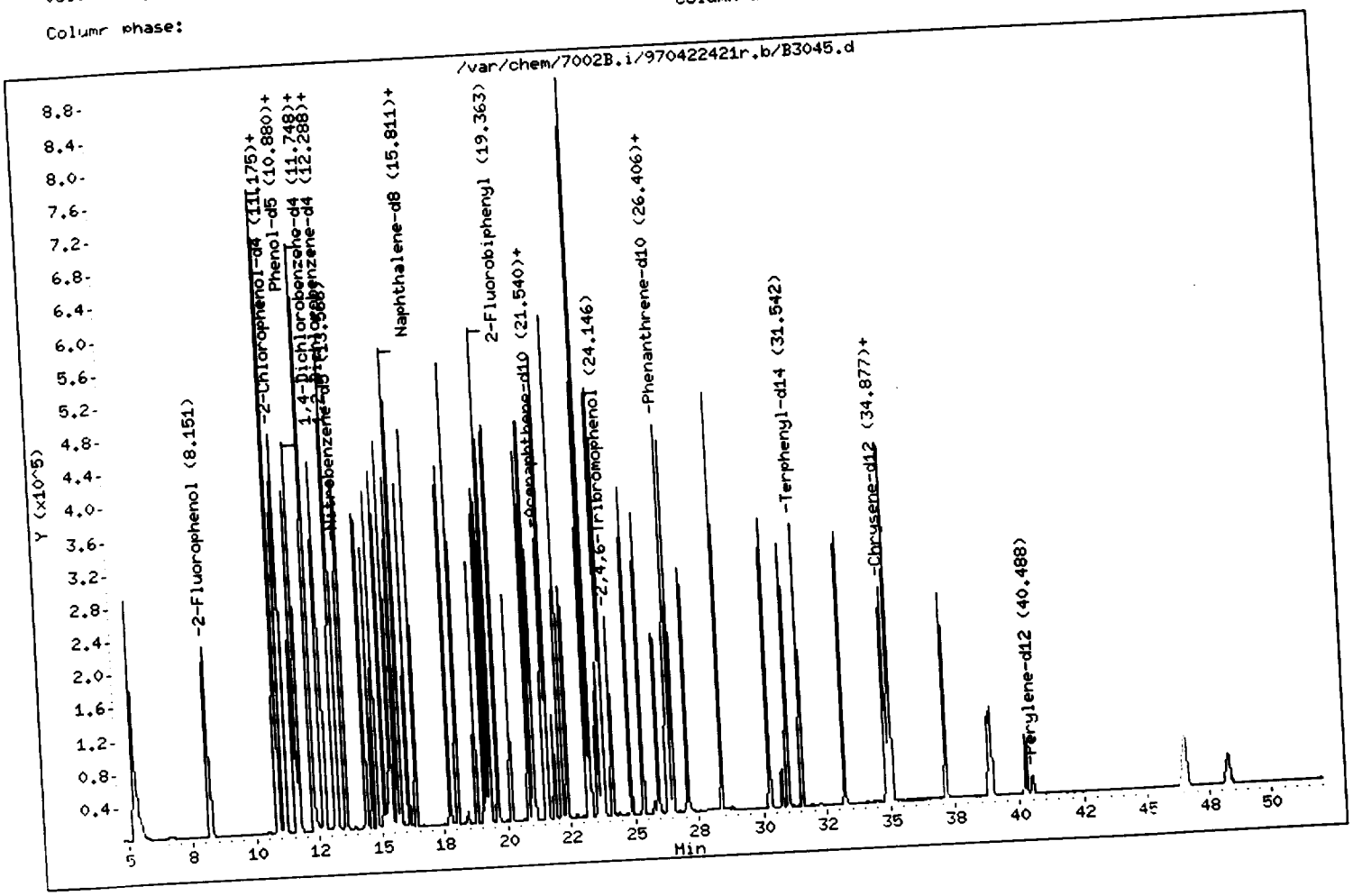
Sample Info: SSTD120

Operator: USER2 REG. GRP.

Volume Injected (uL): 2.0

Column diameter: 0.25

Column phase:



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970422421r.b/B3045.d
Lab Smp Id:
Inj Date : 22-APR-97 18:54:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD120
Misc Info : [970422421R]{COBX71},,MI, 1171-23-5 BTL#
Comment :
Method : /var/chem/7002B.i/970422421r.b/cobx71.m
Meth Date : 22-Apr-97 23:29:08 dennis Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 n-Nitrosodimethylamine	74	5.242	5.242	(0.448)	241833	120	129
	2 Pyridine	79	5.226	5.226	(0.447)	362197	120	118
$	3 2-Fluorophenol	112	8.151	8.151	(0.697)	324788	120	124
$	4 Phenol-d5	99	10.847	10.847	(0.927)	418647	120	126
	5 Aniline	93	10.880	10.880	(0.930)	487797	120	122
	6 Phenol	94	10.880	10.880	(0.930)	476407	120	127
	7 bis(2-Chloroethyl)ether	93	11.093	11.093	(0.948)	361844	120	124
$	8 2-Chlorophenol-d4	132	11.142	11.142	(0.952)	334245	120	123
	9 2-Chlorophenol	128	11.191	11.191	(0.957)	352751	120	123
	10 1,3-Dichlorobenzene	146	11.584	11.584	(0.990)	396345	120	124
*	11 1,4-Dichlorobenzene-d4	152	11.699	11.699	(1.000)	79652	40.0	
	12 1,4-Dichlorobenzene	146	11.748	11.748	(1.004)	399702	120	123
$	13 1,2-Dichlorobenzene-d4	152	12.272	12.272	(1.049)	222594	120	119
	14 Benzyl alcohol	108	12.272	12.272	(1.049)	193869	120	126
	15 1,2-Dichlorobenzene	146	12.321	12.321	(1.053)	357910	120	122

Data File: /var/chem/7002B.i/970422421r.b/B3045.d
Report Date: 22-Apr-97 23:29:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng
16 2-Methylphenol	108	12.665	12.665	(1.083)	277554	120	123
17 2,2'-oxybis(1-Chloropropane)	45	12.731	12.731	(1.088)	429045	120	119
18 4-Methylphenol	108	13.173	13.173	(1.126)	308694	120	127
19 n-Nitroso-di-n-propylamine	70	13.239	13.239	(1.132)	260043	120	122
20 Hexachloroethane	117	13.255	13.255	(1.133)	152064	120	122
$ 21 Nitrobenzene-d5	82	13.566	13.566	(0.862)	393971	120	127
22 Nitrobenzene	77	13.616	13.616	(0.865)	387583	120	128
23 Isophorone	82	14.368	14.368	(0.913)	703269	120	124
24 2-Nitrophenol	139	14.630	14.630	(0.929)	185831	120	129
25 2,4-Dimethylphenol	107	14.810	14.810	(0.941)	315541	120	122
26 bis(2-Chloroethoxy)methane	93	15.121	15.121	(0.960)	407567	120	123
27 2,4-Dichlorophenol	162	15.384	15.384	(0.977)	270319	120	121
28 Benzoic Acid	122	15.482	15.482	(0.983)	151417	120	119
29 1,2,4-Trichlorobenzene	180	15.614	15.614	(0.992)	285434	120	118
* 30 Naphthalene-d8	136	15.745	15.745	(1.000)	242426	40.0	
31 Naphthalene	128	15.811	15.811	(1.004)	809867	120	121
32 4-Chloroaniline	127	16.106	16.106	(1.023)	373978	120	124
33 Hexachlorobutadiene	225	16.401	16.401	(1.042)	173944	120	116
34 4-Chloro-3-methylphenol	107	17.741	17.741	(1.127)	289413	120	125
35 2-Methylnaphthalene	141	18.052	18.052	(1.147)	463134	120	120
36 Hexachlorocyclopentadiene	237	18.788	18.788	(0.873)	165770	120	125
37 2,4,6-Trichlorophenol	196	19.116	19.116	(0.888)	184283	120	118
38 2,4,5-Trichlorophenol	196	19.231	19.231	(0.893)	201854	120	121
$ 39 2-Fluorobiphenyl	172	19.363	19.363	(0.900)	628057	120	121
40 2-Chloronaphthalene	162	19.658	19.658	(0.913)	500197	120	118
41 2-Nitroaniline	65	20.182	20.182	(0.938)	196447	120	124
42 Dimethylphthalate	163	20.868	20.868	(0.970)	644980	120	122
43 Acenaphthylene	152	21.016	21.016	(0.976)	783250	120	120
44 2,6-Dinitrotoluene	165	21.098	21.098	(0.980)	146214	120	126
* 45 Acenaphthene-d10	164	21.524	21.524	(1.000)	134518	40.0	
46 3-Nitroaniline	138	21.557	21.557	(1.002)	131799	120	123
47 Acenaphthene	153	21.639	21.639	(1.005)	503575	120	120
48 2,4-Dinitrophenol	184	21.884	21.884	(1.017)	58969	120	116
49 Dibenzofuran	168	22.163	22.163	(1.030)	696595	120	121
50 4-Nitrophenol	109	22.147	22.147	(1.029)	64623	120	118
51 2,4-Dinitrotoluene	165	22.376	22.376	(1.040)	198637	120	125
52 Diethylphthalate	149	23.178	23.178	(1.077)	673569	120	123
53 Fluorene	166	23.277	23.277	(1.081)	523967	120	122
54 4-Chlorophenyl-phenylether	204	23.293	23.293	(1.082)	265706	120	120
55 4-Nitroaniline	138	23.588	23.588	(1.096)	102803	120	125
56 4,6-Dinitro-2-methylphenol	198	23.703	23.703	(0.900)	87974	120	130
57 n-Nitrosodiphenylamine	169	23.753	23.753	(0.902)	370351	120	121
$ 58 2,4,6-Tribromophenol	330	24.146	24.146	(1.122)	104340	120	130
59 4-Bromophenyl-phenylether	248	24.866	24.866	(0.945)	167447	120	115
60 Hexachlorobenzene	284	25.341	25.341	(0.963)	209090	120	117
61 Pentachlorophenol	266	25.947	25.947	(0.986)	110049	120	130
* 62 Phenanthrene-d10	188	26.324	26.324	(1.000)	209272	40.0	

Data File: /var/chem/7002B.i/970422421r.b/B3045.d
Report Date: 22-Apr-97 23:29:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Phenanthrene	178	26.406	26.406	(1.003)	736379	120	122
64 Anthracene	178	26.538	26.538	(1.008)	720208	120	122
65 Carbazole	167	27.111	27.111	(1.030)	503957	120	124
66 di-n-Butylphthalate	149	28.402	28.402	(1.079)	928964	120	123
67 Fluoranthene	202	30.282	30.282	(1.150)	591526	120	128
68 Benzidine	184	30.756	30.756	(0.880)	66817	120	107
69 Pyrene	202	31.002	31.002	(0.887)	561229	120	124
$ 70 Terphenyl-d14	244	31.542	31.542	(0.903)	451733	120	125
71 Butylbenzylphthalate	149	33.226	33.226	(0.951)	278881	120	128
72 Benzo(a)anthracene	228	34.894	34.894	(0.999)	339403	120	124
73 3,3'-Dichlorobenzidine	252	34.861	34.861	(0.998)	65672	120	115
* 74 Chrysene-d12	240	34.944	34.944	(1.000)	80301	40.0	
75 Chrysene	228	35.026	35.026	(1.002)	301895	120	118
76 bis(2-Ethylhexyl)phthalate	149	35.092	35.092	(1.004)	351070	120	123
77 di-n-Octylphthalate	149	37.184	37.184	(0.918)	461044	120	134
78 Benzo(b)fluoranthene	252	38.836	38.836	(0.959)	223556	120	124
79 Benzo(k)fluoranthene	252	38.918	38.918	(0.961)	270927	120	125
80 Benzo(a)pyrene	252	40.242	40.242	(0.994)	189334	120	125
* 81 Perylene-d12	264	40.488	40.488	(1.000)	57641	40.0	
82 Indeno(1,2,3-cd)pyrene	276	46.484	46.484	(1.148)	204026	120	121
83 Dibenzo(a,h)anthracene	278	46.582	46.582	(1.151)	166262	120	122
84 Benzo(g,h,i)perylene	276	48.282	48.282	(1.193)	163636	120	120

Data File: /var/chem/7002B.i/970422421r.b/B3046.d

Date : 22-APR-97 19:53:00

Client ID:

Instrument: 7002B.i

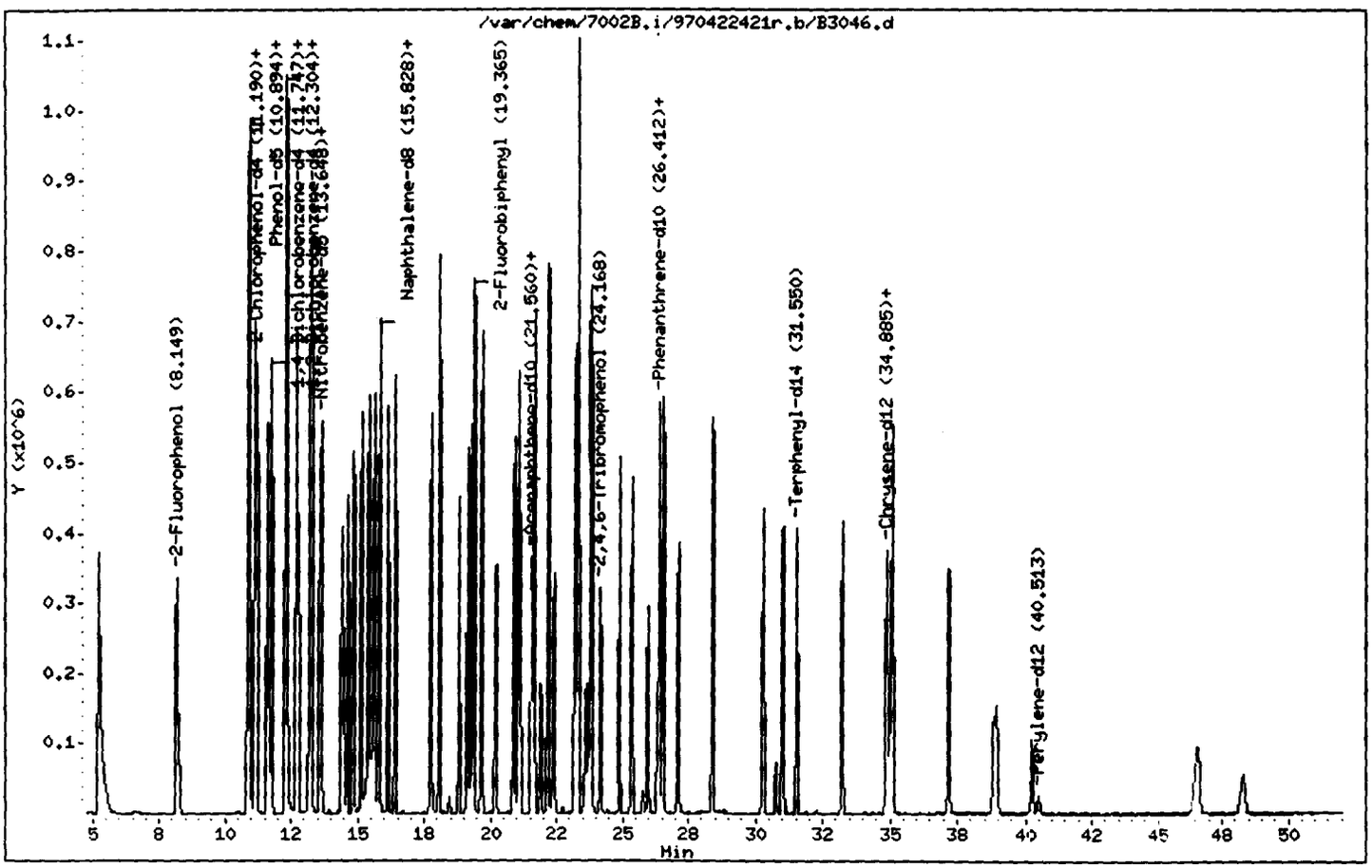
Sample Info: SSTD160

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data File : /var/chem/7002B.i/970422421r.b/B3046.d
Lab Smp Id:
Inj Date : 22-APR-97 19:53:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD160
Misc Info : [970422421R]{COBX71},,MI, 1171-23-6 BTL#
Comment :
Method : /var/chem/7002B.i/970422421r.b/cobx71.m
Meth Date : 22-Apr-97 23:29:14 dennis Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 n Nitrosodimethylamine	74	5.241	5.241	(0.448)	332679	160	165 AM)
2 Pyridine	79	5.208	5.208	(0.445)	563799	160	172 AM)
$ 3 2 Fluorophenol	112	8.149	8.149	(0.697)	477939	160	169
$ 4 Phenol-d5	99	10.878	10.878	(0.930)	606808	160	173
5 Aniline	93	10.894	10.894	(0.931)	691777	160	161 A)
6 Phenol	94	10.911	10.911	(0.933)	677127	160	168 A)
7 Bis(2-Chloroethyl)ether	93	11.108	11.108	(0.950)	529297	160	168 A)
$ 8 2 Chlorophenol-d4	132	11.157	11.157	(0.954)	479341	160	164
9 2 Chlorophenol	128	11.206	11.206	(0.958)	517931	160	168 A)
10 1,3 Dichlorobenzene	146	11.583	11.583	(0.990)	547952	160	162
* 11 1,4 Dichlorobenzene-d4	152	11.698	11.698	(1.000)	85546	40.0	
12 1,4 Dichlorobenzene	146	11.747	11.747	(1.004)	565965	160	162 A)
$ 13 1,2 Dichlorobenzene-d4	152	12.287	12.287	(1.050)	319290	160	159
14 Benzyl alcohol	108	12.287	12.287	(1.050)	281345	160	172 A)
15 1,2 Dichlorobenzene	146	12.337	12.337	(1.055)	503809	160	162 A)

Data File: /var/chem/7002B.i/970422421r.b/B3046.d
Report Date: 22-Apr-97 23:29:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	16 2-Methylphenol	108	12.681	12.681	(1.084)	411239	160	171 A)
	17 2,2'-oxybis(1-Chloropropane)	45	12.746	12.746	(1.090)	631864	160	163 A)
	18 4-Methylphenol	108	13.205	13.205	(1.129)	437064	160	167 A)
	19 n-Nitroso-di-n-propylamine	70	13.271	13.271	(1.134)	376674	160	164 A)
	20 Hexachloroethane	117	13.255	13.255	(1.133)	215966	160	162 A)
$	21 Nitrobenzene-d5	82	13.582	13.582	(0.862)	578942	160	174
	22 Nitrobenzene	77	13.648	13.648	(0.866)	558491	160	172 A)
	23 Isophorone	82	14.400	14.400	(0.914)	1034563	160	171 A)
	24 2-Nitrophenol	139	14.630	14.630	(0.928)	272107	160	176 A)
	25 2,4-Dimethylphenol	107	14.843	14.843	(0.942)	466175	160	169 A)
	26 bis(2-Chloroethoxy)methane	93	15.138	15.138	(0.960)	601571	160	169 A)
	27 2,4-Dichlorophenol	162	15.401	15.401	(0.977)	402647	160	168 A)
	28 Benzoic Acid	122	15.598	15.598	(0.990)	250499	160	161 A)
	29 1,2,4-Trichlorobenzene	180	15.631	15.631	(0.992)	411753	160	159
*	30 Naphthalene-d8	136	15.762	15.762	(1.000)	259517	40.0	
	31 Naphthalene	128	15.828	15.828	(1.004)	1029421	160	144
	32 4-Chloroaniline	127	16.123	16.123	(1.023)	542506	160	167 A)
	33 Hexachlorobutadiene	225	16.402	16.402	(1.041)	250488	160	156
	34 4-Chloro-3-methylphenol	107	17.742	17.742	(1.126)	422432	160	171 A)
	35 2-Methylnaphthalene	141	18.070	18.070	(1.146)	678029	160	164 A)
	36 Hexachlorocyclopentadiene	237	18.806	18.806	(0.874)	236140	160	170 (A)
	37 2,4,6-Trichlorophenol	196	19.118	19.118	(0.888)	268108	160	164 (A)
	38 2,4,5-Trichlorophenol	196	19.250	19.250	(0.894)	282911	160	161 (A)
$	39 2-Fluorobiphenyl	172	19.365	19.365	(0.900)	866186	160	159
	40 2-Chloronaphthalene	162	19.661	19.661	(0.913)	726900	160	162 (A)
	41 2-Nitroaniline	65	20.201	20.201	(0.938)	284750	160	170 (A)
	42 Dimethylphthalate	163	20.888	20.888	(0.970)	887578	160	162
	43 Acenaphthylene	152	21.035	21.035	(0.977)	1056572	160	154
	44 2,6-Dinitrotoluene	165	21.118	21.118	(0.981)	205150	160	168 A)
*	45 Acenaphthene-d10	164	21.527	21.527	(1.000)	141625	40.0	
	46 3-Nitroaniline	138	21.576	21.576	(1.002)	192480	160	171 A)
	47 Acenaphthene	153	21.658	21.658	(1.006)	708560	160	161 A)
	48 2,4-Dinitrophenol	154	21.904	21.904	(1.018)	93487	160	161 (A)
	49 Dibenzofuran	168	22.167	22.167	(1.030)	960871	160	159
	50 4-Nitrophenol	139	22.183	22.183	(1.030)	92433	160	162 (A)
	51 2,4-Dinitrotoluene	165	22.397	22.397	(1.040)	270172	160	162 (A)
	52 Diethylphthalate	149	23.198	23.198	(1.078)	924734	160	161 (A)
	53 Fluorene	166	23.297	23.297	(1.082)	708269	160	157
	54 4-Chlorophenyl-phenylether	204	23.314	23.314	(1.083)	357194	160	154
	55 4-Nitroaniline	138	23.625	23.625	(1.097)	145969	160	168 (A)
	56 4,6-Dinitro-2-methylphenol	198	23.741	23.741	(0.902)	121958	160	181 (A)
	57 n-Nitrosodiphenylamine	169	23.774	23.774	(0.903)	496969	160	163 (A)
$	58 2,4,6-Tribromophenol	330	24.168	24.168	(1.123)	140119	160	165
	59 4-Bromophenyl-phenylether	248	24.871	24.871	(0.945)	228394	160	159
	60 Hexachlorobenzene	284	25.363	25.363	(0.963)	270023	160	151
	61 Pentachlorophenol	266	25.953	25.953	(0.986)	153552	160	181 (A)
*	62 Phenanthrene-d10	188	26.330	26.330	(1.000)	208963	40.0	

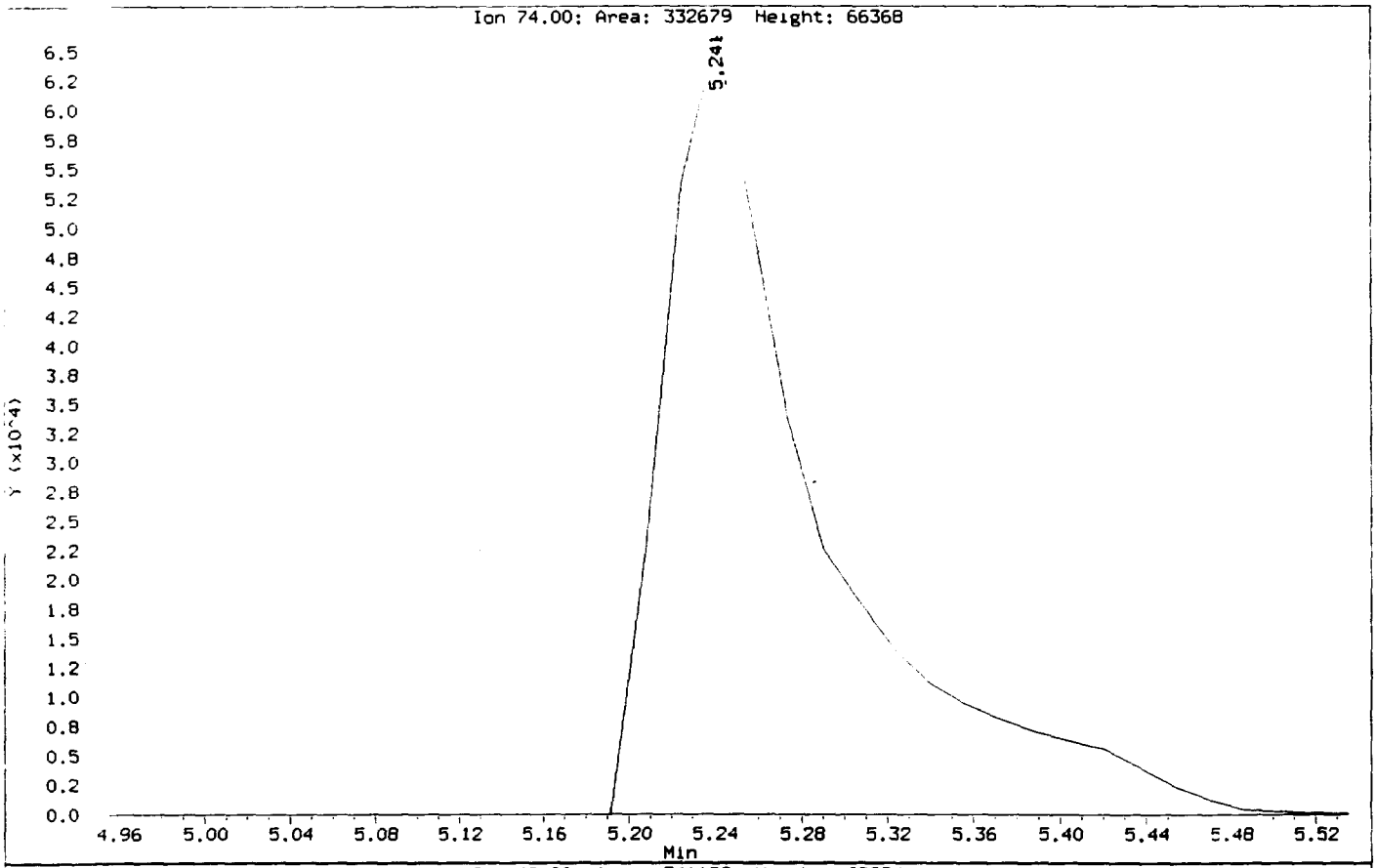
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
	63 Phenanthrene	178	26.412	26.412	(1.003)	991323	160	165	A
	64 Anthracene	178	26.560	26.560	(1.009)	950740	160	161	A
	65 Carbazole	167	27.117	27.117	(1.030)	694835	160	171	A
	66 di n-Butylphthalate	149	28.409	28.409	(1.079)	1074284	160	142	
	67 Fluoranthene	202	30.288	30.288	(1.150)	771623	160	167	A
	68 Benzidine	184	30.763	30.763	(0.880)	105875	160	161	A
	69 Pyrene	202	31.025	31.025	(0.888)	748526	160	161	A
$	70 Terphenyl-d14	244	31.550	31.550	(0.903)	576453	160	155	
	71 Butylbenzylphthalate	149	33.217	33.217	(0.950)	372837	160	167	A
	72 Benzo(a)anthracene	228	34.885	34.885	(0.998)	471243	160	167	A
	73 3,3'-Dichlorobenzidine	252	34.868	34.868	(0.998)	117911	160	201	A
*	74 Chrysene-d12	240	34.951	34.951	(1.000)	82489	40.0		
	75 Chrysene	228	35.034	35.034	(1.002)	439591	160	167	A
	76 bis(2-Ethylhexyl)phthalate	149	35.100	35.100	(1.004)	483940	160	166	A
	77 di n-Octylphthalate	149	37.176	37.176	(0.918)	663158	160	172	A
	78 Benzo(b)fluoranthene	252	38.844	38.844	(0.959)	312337	160	153	
	79 Benzo(k)fluoranthene	252	38.926	38.926	(0.961)	349285	160	144	
	80 Benzo(a)pyrene	252	40.251	40.251	(0.994)	284865	160	168	A
*	81 Perylene-d12	264	40.513	40.513	(1.000)	64429	40.0		
	82 Indeno(1,2,3-cd)pyrene	276	46.509	46.509	(1.148)	313998	160	167	A
	83 Dibenzo(a,h)anthracene	278	46.607	46.607	(1.150)	258789	160	171	A
	84 Benzo(g,h,i)perylene	276	48.308	48.308	(1.192)	249994	160	164	A

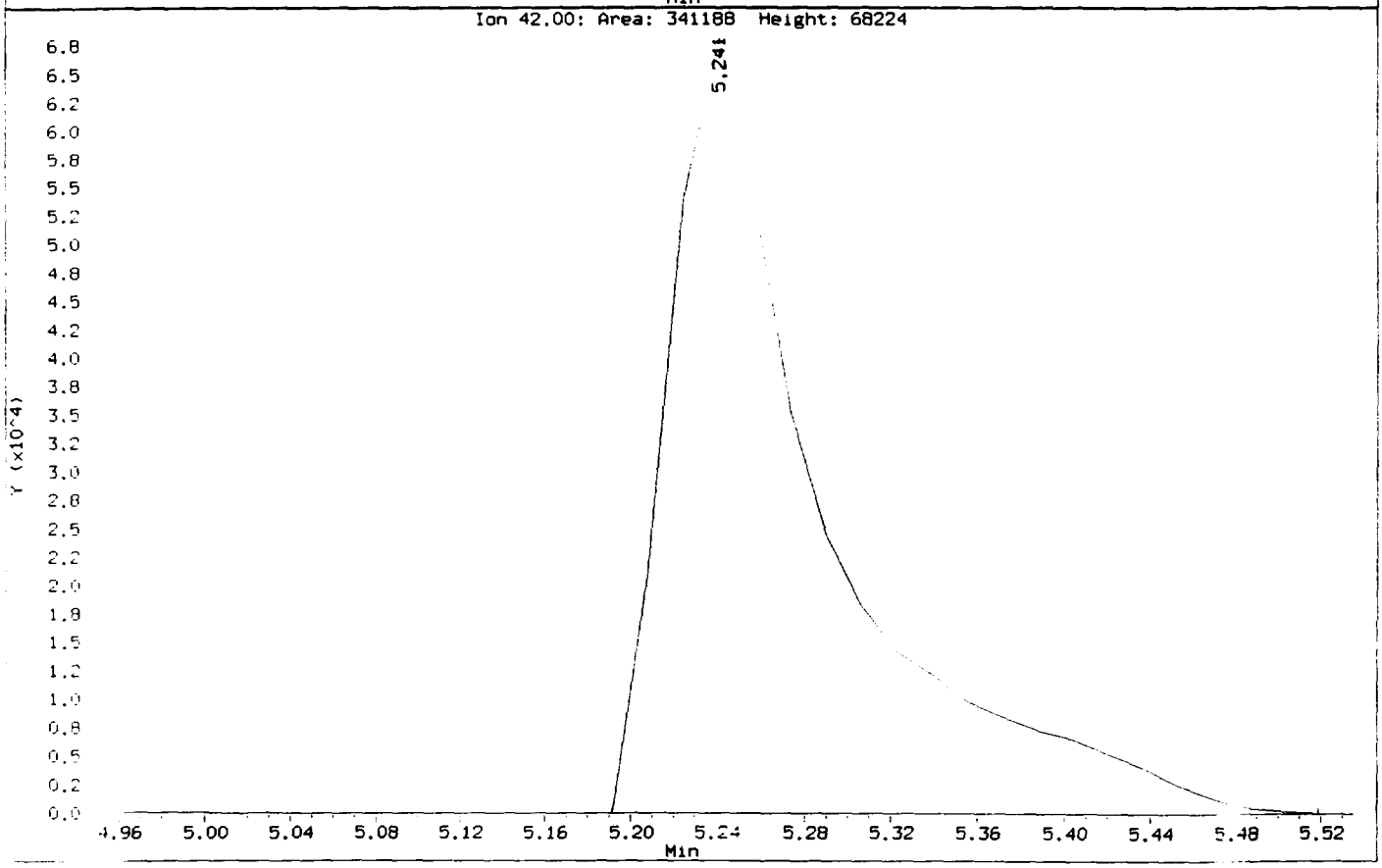
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /var/chem/7002B.i/970422421r.b/B3046.d
Injection Date: 22-APR-97 19:53:00
Instrument: 7002B.i
Client Sample ID:

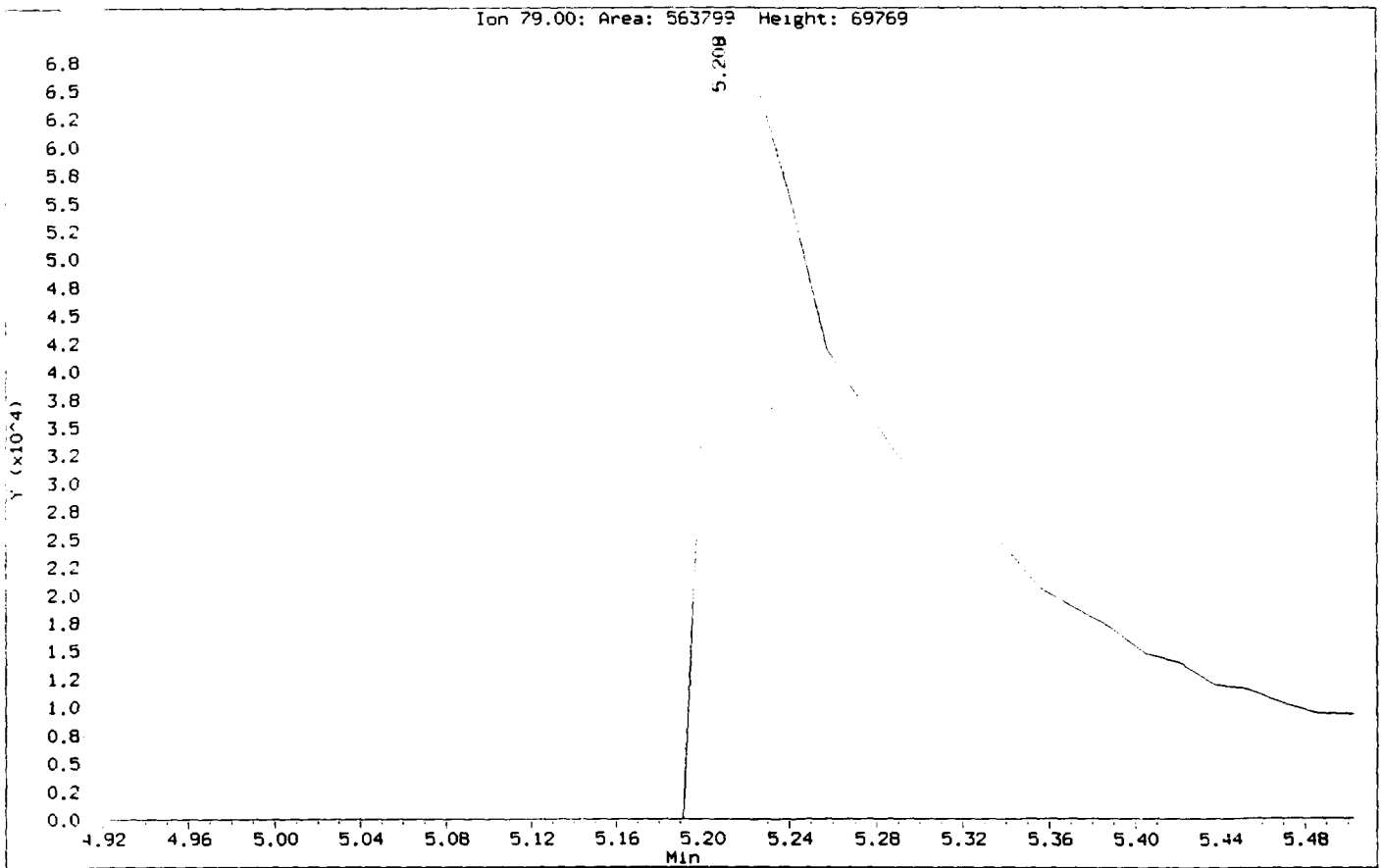
Compound: N-Nitrosodimethylamine
CAS Number: 62-75-9

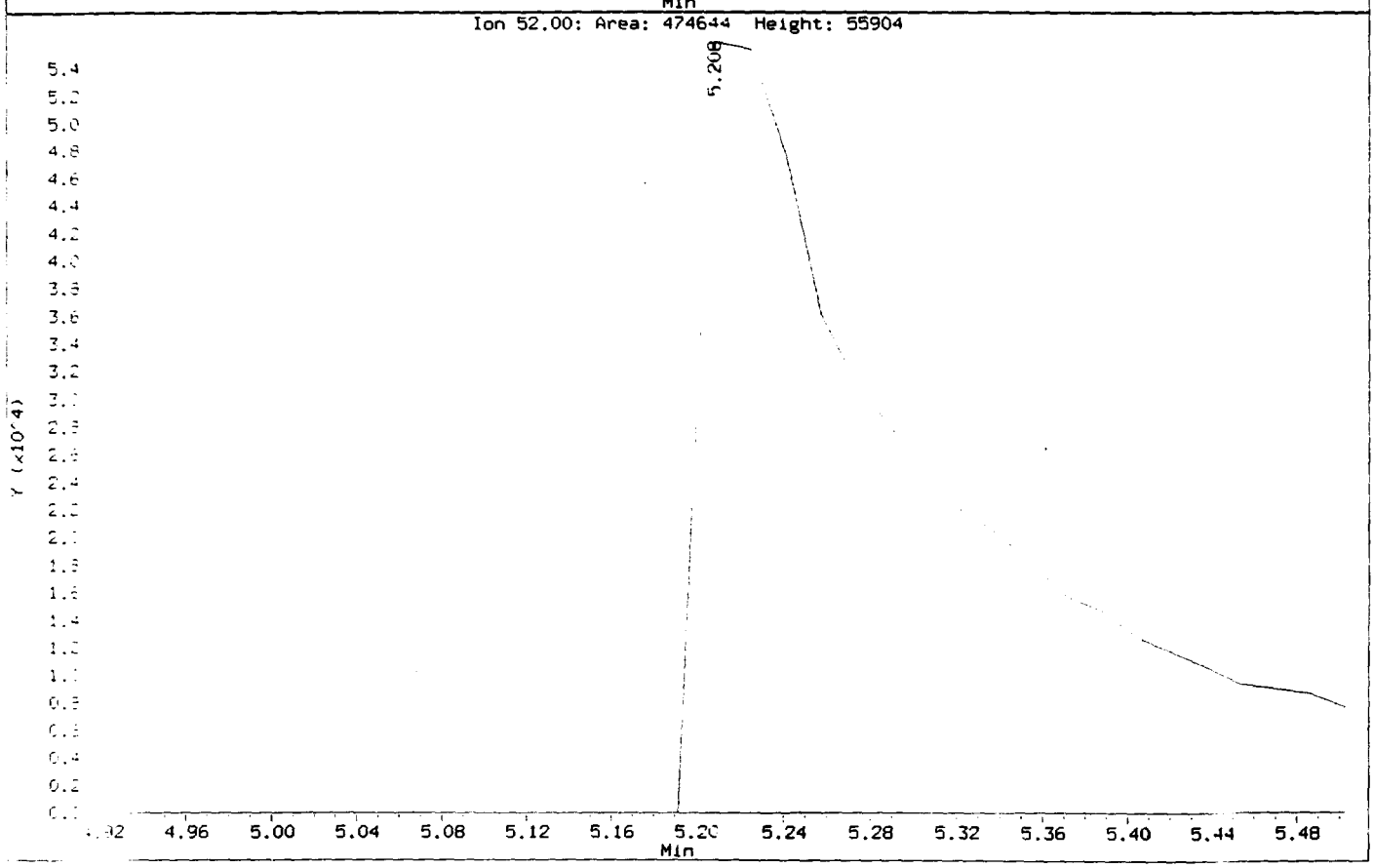




Data File: /var/chem/7002B.i/970422421r.b/B3046.d
Injection Date: 22-APR-97 19:53:00
Instrument: 7002B.i
Client Sample ID:

Compound: Pyridine
CAS Number: 110-86-1





Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3134.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 29-APR-97 20:30:00 4/22/97
Init. Calibration Date(s): ~~04/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970429422r.b/cobx71.m

5/6/97

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 n-Nitrosodimethylamine	0.941	0.892	0.010	5.2	100.0
	2 Pyridine	1.534	1.395	0.010	9.0	100.0
$	3 2-Fluorophenol	1.319	1.247	0.010	5.4	40.0
$	4 Phenol-d5	1.670	1.587	0.010	5.0	40.0
	5 Aniline	2.007	1.993	0.010	0.7	100.0
	6 Phenol	1.888	1.792	0.010	5.1	20.0
	7 bis(2-Chloroethyl)ether	1.470	1.455	0.010	1.0	40.0
$	8 2-Chlorophenol-d4	1.368	1.315	0.010	3.8	40.0
	9 2-Chlorophenol	1.441	1.404	0.010	2.6	40.0
	10 1,3-Dichlorobenzene	1.605	1.557	0.010	3.0	40.0
	12 1,4-Dichlorobenzene	1.633	1.570	0.010	3.9	20.0
$	13 1,2-Dichlorobenzene-d4	0.939	0.910	0.010	3.1	40.0
	14 Benzyl alcohol	0.772	0.719	0.010	6.8	100.0
	15 1,2-Dichlorobenzene	1.471	1.448	0.010	1.6	40.0
	16 2-Methylphenol	1.134	1.180	0.010	4.0	40.0
	17 2,2'-oxybis(1-Chloropropane)	1.810	1.808	0.010	0.1	100.0
	18 4-Methylphenol	1.222	1.196	0.010	2.1	40.0
	19 n-Nitroso-di-n-propylamine	1.073	1.087	0.050	1.4	40.0
	20 Hexachloroethane	0.624	0.540	0.010	13.5	40.0
$	21 Nitrobenzene-d5	0.513	0.465	0.010	9.4	40.0
	22 Nitrobenzene	0.501	0.450	0.010	10.2	40.0
	23 Isophorone	0.938	0.887	0.010	5.5	40.0
	24 2-Nitrophenol	0.238	0.192	0.010	19.2	20.0
	25 2,4-Dimethylphenol	0.426	0.398	0.010	6.6	40.0
	26 bis(2-Chloroethoxy)methane	0.548	0.511	0.010	6.9	40.0
	27 2,4-Dichlorophenol	0.369	0.336	0.010	8.9	20.0
	28 Benzoic Acid	4.731	0.092	0.010	N/A	N/A
	29 1,2,4-Trichlorobenzene	0.400	0.376	0.010	6.0	40.0
	31 Naphthalene	1.101	1.110	0.010	0.8	40.0
	32 4-Chloroaniline	0.499	0.476	0.010	4.7	100.0
	33 Hexachlorobutadiene	0.247	0.211	0.010	14.5	20.0
	34 4-Chloro-3-methylphenol	0.381	0.358	0.010	6.0	20.0
	35 2-Methylnaphthalene	0.636	0.630	0.010	0.9	40.0
	36 Hexachlorocyclopentadiene	0.393	0.187	0.050	52.3	100.0
	37 2,4,6-Trichlorophenol	0.462	0.410	0.010	11.3	20.0
	38 2,4,5-Trichlorophenol	0.495	0.433	0.010	12.5	40.0
$	39 2-Fluorobiphenyl	1.546	1.471	0.010	4.8	40.0
	40 2-Chloronaphthalene	1.263	1.241	0.010	1.7	40.0

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3134.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 29-APR-97 20:30:00 4/30/97
Init. Calibration Date(s): ~~04/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970429422r.b/cobx71.m

5/6/97 AL

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	41 2-Nitroaniline	0.472	0.417	0.010	11.7	100.0	
	42 Dimethylphthalate	1.568	1.517	0.010	3.2	100.0	
	43 Acenaphthylene	1.944	1.894	0.010	2.5	40.0	
	44 2,6-Dinitrotoluene	0.344	0.320	0.010	7.1	40.0	
	46 3-Nitroaniline	0.318	0.281	0.010	11.7	100.0	
	47 Acenaphthene	1.242	1.201	0.010	3.2	20.0	
	48 2,4-Dinitrophenol	0.197	0.057	0.050	N/A	N/A	
	49 Dibenzofuran	1.713	1.672	0.010	2.4	40.0	
	50 4-Nitrophenol	3.612	0.111	0.050	N/A	N/A	
	51 2,4-Dinitrotoluene	0.472	0.412	0.010	12.7	40.0	
	52 Diethylphthalate	1.622	1.562	0.010	3.7	100.0	
	53 Fluorene	1.277	1.208	0.010	5.5	40.0	
	54 4-Chlorophenyl-phenylether	0.657	0.616	0.010	6.2	40.0	
	55 4-Nitroaniline	0.245	0.227	0.010	7.4	100.0	
	56 4,6-Dinitro-2-methylphenol	0.129	0.067	0.010	48.0	100.0	
	57 n-Nitrosodiphenylamine	0.584	0.585	0.010	0.2	20.0	
$	58 2,4,6-Tribromophenol	0.240	0.179	0.010	25.4	100.0	
	59 4-Bromophenyl-phenylether	0.277	0.263	0.010	5.1	40.0	
	60 Hexachlorobenzene	0.342	0.327	0.010	4.5	40.0	
	61 Pentachlorophenol	0.162	0.098	0.010	39.5	20.0	<- Not a target compound
	63 Phenanthrene	1.151	1.132	0.010	1.6	40.0	
	64 Anthracene	1.129	1.126	0.010	0.3	40.0	
	65 Carbazole	0.780	0.796	0.010	2.0	100.0	
	66 di-n-Butylphthalate	1.443	1.561	0.010	8.2	100.0	
	67 Fluoranthene	0.886	0.872	0.010	1.6	20.0	
	68 Benzidine	0.335	0.207	0.010	N/A	N/A	
	69 Pyrene	2.262	1.854	0.010	18.1	40.0	
$	70 Terphenyl-d14	1.798	1.555	0.010	13.5	40.0	
	71 Butylbenzylphthalate	1.085	0.972	0.010	10.4	100.0	
	72 Benzo(a)anthracene	1.366	1.320	0.010	3.3	40.0	
	73 3,3'-Dichlorobenzidine	0.284	0.394	0.010	38.7	100.0	
	75 Chrysene	1.274	1.222	0.010	4.1	40.0	
	76 bis(2-Ethylhexyl)phthalate	1.418	1.309	0.010	7.6	100.0	
	77 di-n-Octylphthalate	2.390	2.217	0.010	7.2	20.0	
	78 Benzo(b)fluoranthene	1.324	1.377	0.010	N/A	N/A	
	79 Benzo(k)fluoranthene	1.501	1.267	0.010	15.6	40.0	
	80 Benzo(a)pyrene	1.052	0.994	0.010	5.5	20.0	
	82 Indeno(1,2,3-cd)pyrene	1.166	0.945	0.010	19.0	40.0	

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3134.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 29-APR-97 20:30:00 4/22/97
Init. Calibration Date(s): ~~04/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970429422r.b/cobx71.m

5/6/97

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
83 Dibenzo(a,h)anthracene	0.942	0.782	0.010	17.0	40.0
84 Benzo(g,h,i)perylene	0.947	0.737	0.010	22.2	40.0

Data File: /var/chem/7002B.i/970429422r.b/B3134.d

Date : 29-APR-97 20:30:00

Client ID:

Instrument: 7002B.i

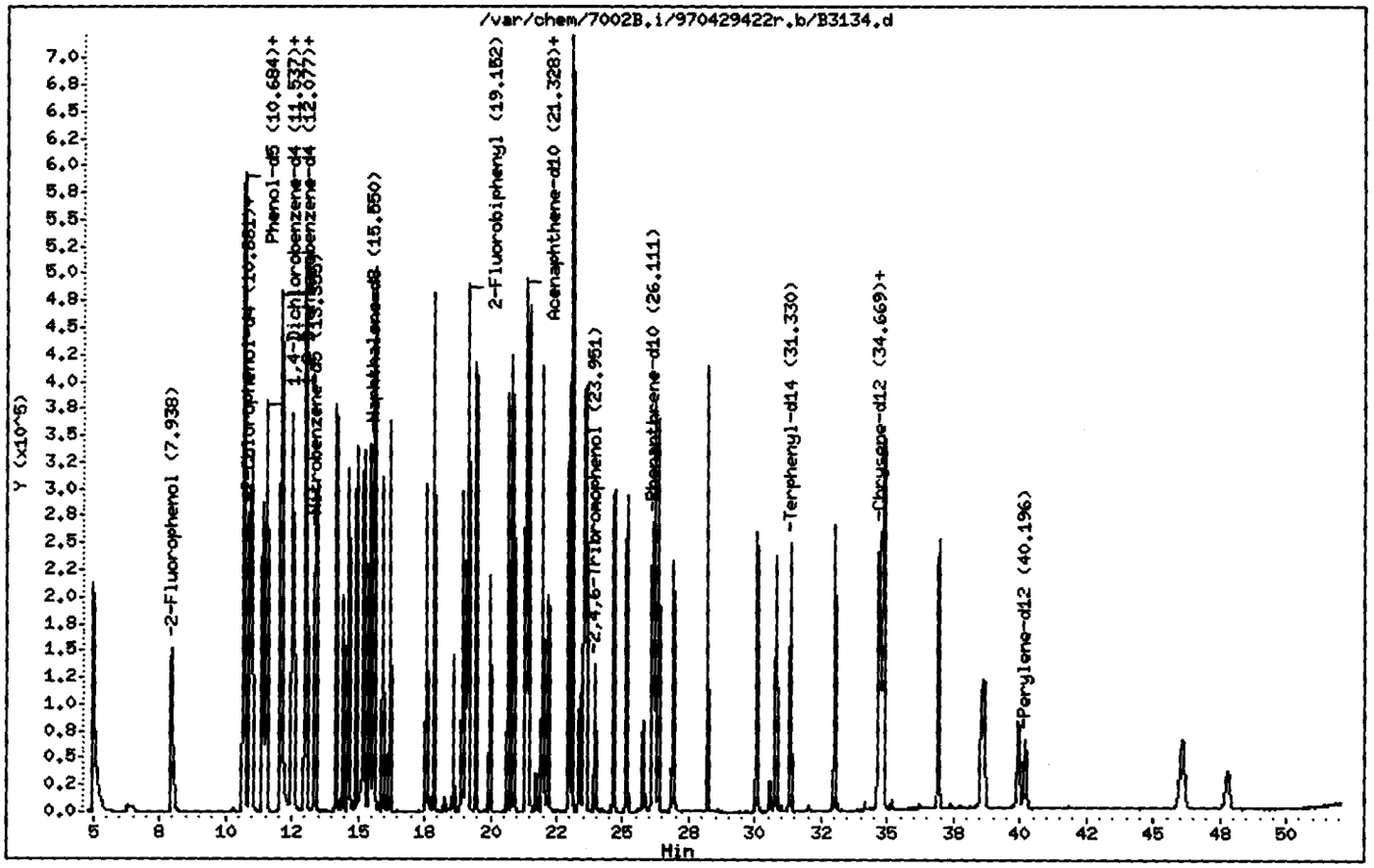
Sample Info: SSTD050

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970429422r.b/B3134.d
Lab Smp Id:
Inj Date : 29-APR-97 20:30:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD050
Misc Info : [970429422R]{COBX71},,DCE, 1171-29-1 BTL#
Comment :
Method : /var/chem/7002B.i/970429422r.b/cobx71.m
Meth Date : 01-May-97 23:55:37 pwang Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 n-Nitrosodimethylamine	74	4.996	4.996	(0.435)	164541	50.0	47.4
	2 Pyridine	79	4.980	4.980	(0.433)	257350	50.0	45.5
$	3 2-Fluorophenol	112	7.938	7.938	(0.691)	230059	50.0	47.3
$	4 Phenol-d5	99	10.651	10.651	(0.927)	292628	50.0	47.5
	5 Aniline	93	10.667	10.667	(0.929)	367602	50.0	49.6
	6 Phenol	94	10.700	10.700	(0.931)	330414	50.0	47.4
	7 bis(2-Chloroethyl)ether	93	10.881	10.881	(0.947)	268275	50.0	49.5
$	8 2-Chlorophenol-d4	132	10.930	10.930	(0.951)	242603	50.0	48.1
	9 2-Chlorophenol	128	10.979	10.979	(0.956)	258912	50.0	48.7
	10 1,3-Dichlorobenzene	146	11.372	11.372	(0.990)	287115	50.0	48.5
*	11 1,4-Dichlorobenzene-d4	152	11.487	11.487	(1.000)	147537	40.0	
	12 1,4-Dichlorobenzene	146	11.537	11.537	(1.004)	289533	50.0	48.1
$	13 1,2-Dichlorobenzene-d4	152	12.077	12.077	(1.051)	167818	50.0	48.4
	14 Benzyl alcohol	108	12.060	12.060	(1.050)	132657	50.0	46.6
	15 1,2-Dichlorobenzene	146	12.110	12.110	(1.054)	266970	50.0	49.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	16 2-Methylphenol	108	12.487	12.487	(1.087)	217606	50.0	52.0
	17 2,2'-oxybis(1-Chloropropane)	45	12.536	12.536	(1.091)	333499	50.0	49.9
	18 4-Methylphenol	108	12.978	12.978	(1.130)	220596	50.0	48.9
	19 n-Nitroso-di-n-propylamine	70	13.011	13.011	(1.133)	200558	50.0	50.7
	20 Hexachloroethane	117	13.044	13.044	(1.135)	99591	50.0	43.2
$	21 Nitrobenzene-d5	82	13.355	13.355	(0.859)	286211	50.0	45.3
	22 Nitrobenzene	77	13.421	13.421	(0.863)	276652	50.0	44.9
	23 Isophorone	82	14.156	14.156	(0.910)	545579	50.0	47.3
	24 2-Nitrophenol	139	14.419	14.419	(0.927)	118242	50.0	40.4
	25 2,4-Dimethylphenol	107	14.648	14.648	(0.942)	244639	50.0	46.7
	26 bis(2-Chloroethoxy)methane	93	14.926	14.926	(0.960)	314195	50.0	46.5
	27 2,4-Dichlorophenol	162	15.205	15.205	(0.978)	207054	50.0	45.5
	28 Benzoic Acid	122	15.172	15.172	(0.976)	56412	50.0	39.4(a)
	29 1,2,4-Trichlorobenzene	180	15.435	15.435	(0.993)	231357	50.0	47.0
*	30 Naphthalene-d8	136	15.550	15.550	(1.000)	492326	40.0	
	31 Naphthalene	128	15.616	15.616	(1.004)	683062	50.0	50.4
	32 4-Chloroaniline	127	15.911	15.911	(1.023)	292831	50.0	47.6
	33 Hexachlorobutadiene	225	16.206	16.206	(1.042)	129854	50.0	42.7
	34 4-Chloro-3-methylphenol	107	17.579	17.579	(1.130)	220478	50.0	47.0
	35 2-Methylnaphthalene	141	17.857	17.857	(1.148)	387895	50.0	49.5
	36 Hexachlorocyclopentadiene	237	18.594	18.594	(0.872)	64261	50.0	23.8
	37 2,4,6-Trichlorophenol	196	18.938	18.938	(0.888)	140671	50.0	44.3
	38 2,4,5-Trichlorophenol	196	19.069	19.069	(0.894)	148664	50.0	43.7(a)
$	39 2-Fluorobiphenyl	172	19.152	19.152	(0.898)	504624	50.0	47.6
	40 2-Chloronaphthalene	162	19.447	19.447	(0.912)	425750	50.0	49.1
	41 2-Nitroaniline	65	19.970	19.970	(0.936)	143017	50.0	44.1(a)
	42 Dimethylphthalate	163	20.657	20.657	(0.969)	520489	50.0	48.4
	43 Acenaphthylene	152	20.821	20.821	(0.976)	649843	50.0	48.7
	44 2,6-Dinitrotoluene	165	20.903	20.903	(0.980)	109798	50.0	46.5
*	45 Acenaphthene-d10	164	21.328	21.328	(1.000)	274422	40.0	
	46 3-Nitroaniline	138	21.345	21.345	(1.001)	96384	50.0	44.2(a)
	47 Acenaphthene	153	21.444	21.444	(1.005)	412103	50.0	48.4
	48 2,4-Dinitrophenol	184	21.705	21.705	(1.018)	19602	50.0	41.8(a)
	49 Dibenzofuran	168	21.951	21.951	(1.029)	573374	50.0	48.8
	50 4-Nitrophenol	109	22.001	22.001	(1.032)	38024	50.0	50.9
	51 2,4-Dinitrotoluene	165	22.181	22.181	(1.040)	141223	50.0	43.6
	52 Diethylphthalate	149	22.966	22.966	(1.077)	535679	50.0	48.1
	53 Fluorene	166	23.081	23.081	(1.082)	414261	50.0	47.3
	54 4-Chlorophenyl-phenylether	204	23.098	23.098	(1.083)	211418	50.0	46.9
	55 4-Nitroaniline	138	23.360	23.360	(1.095)	77888	50.0	46.3(a)
	56 4,6-Dinitro-2-methylphenol	198	23.508	23.508	(0.900)	33181	50.0	26.0(a)
	57 n-Nitrosodiphenylamine	169	23.541	23.541	(0.902)	289496	50.0	50.1
$	58 2,4,6-Tribromophenol	330	23.951	23.951	(1.123)	61319	50.0	37.3
	59 4-Bromophenyl-phenylether	248	24.654	24.654	(0.944)	130074	50.0	47.4
	60 Hexachlorobenzene	284	25.145	25.145	(0.963)	161807	50.0	47.8
	61 Pentachlorophenol	266	25.767	25.767	(0.987)	48488	50.0	30.2(a)
*	62 Phenanthrene-d10	188	26.111	26.111	(1.000)	395778	40.0	

Data File: /var/chem/7002B.i/970429422r.b/B3134.d
Report Date: 05-May-97 13:22:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Phenanthrene	178	26.194	26.194	(1.003)	559997	50.0	49.2
64 Anthracene	178	26.342	26.342	(1.009)	556885	50.0	49.8
65 Carbazole	167	26.914	26.914	(1.031)	393711	50.0	51.0
66 di-n-Butylphthalate	149	28.189	28.189	(1.080)	772461	50.0	54.1
67 Fluoranthene	202	30.069	30.069	(1.152)	431572	50.0	49.2
68 Benzidine	184	30.543	30.543	(0.879)	47076	50.0	38.3(a)
69 Pyrene	202	30.789	30.789	(0.886)	420608	50.0	41.0
$ 70 Terphenyl-d14	244	31.330	31.330	(0.902)	352874	50.0	43.2
71 Butylbenzylphthalate	149	32.998	32.998	(0.950)	220500	50.0	44.8
72 Benzo(a)anthracene	228	34.669	34.669	(0.998)	299581	50.0	48.3
73 3,3'-Dichlorobenzidine	252	34.652	34.652	(0.998)	89392	50.0	69.3
* 74 Chrysene-d12	240	34.735	34.735	(1.000)	181502	40.0	
75 Chrysene	228	34.818	34.818	(1.002)	277165	50.0	47.9
76 bis(2-Ethylhexyl)phthalate	149	34.884	34.884	(1.004)	297055	50.0	46.2
77 di-n-Octylphthalate	149	36.932	36.932	(0.919)	440040	50.0	46.4
78 Benzo(b)fluoranthene	252	38.555	38.555	(0.959)	273304	50.0	58.6
79 Benzo(k)fluoranthene	252	38.637	38.637	(0.961)	251451	50.0	42.2
80 Benzo(a)pyrene	252	39.933	39.933	(0.993)	197378	50.0	47.2
* 81 Perylene-d12	264	40.196	40.196	(1.000)	158779	40.0	
82 Indeno(1,2,3-cd)pyrene	276	46.045	46.045	(1.145)	187483	50.0	40.5
83 Dibenzo(a,h)anthracene	278	46.127	46.127	(1.148)	155181	50.0	41.5
84 Benzo(g,h,i)perylene	276	47.799	47.799	(1.189)	146329	50.0	38.9

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3147.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 30-APR-97 11:15:00 4/30/97
Init. Calibration Date(s): ~~04/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970430421r.b/cobx71.m

5/6/97 AL

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 n-Nitrosodimethylamine	0.941	0.912	0.010	3.1	100.0
	2 Pyridine	1.534	1.448	0.010	5.6	100.0
$	3 2-Fluorophenol	1.319	1.256	0.010	4.8	40.0
$	4 Phenol-d5	1.670	1.577	0.010	5.6	40.0
	5 Aniline	2.007	1.952	0.010	2.7	100.0
	6 Phenol	1.888	1.784	0.010	5.5	20.0
	7 bis(2-Chloroethyl)ether	1.470	1.443	0.010	1.9	40.0
$	8 2-Chlorophenol-d4	1.368	1.322	0.010	3.4	40.0
	9 2-Chlorophenol	1.441	1.359	0.010	5.7	40.0
	10 1,3-Dichlorobenzene	1.605	1.516	0.010	5.5	40.0
	12 1,4-Dichlorobenzene	1.633	1.561	0.010	4.4	20.0
$	13 1,2-Dichlorobenzene-d4	0.939	0.902	0.010	3.9	40.0
	14 Benzyl alcohol	0.772	0.770	0.010	0.2	100.0
	15 1,2-Dichlorobenzene	1.471	1.414	0.010	3.9	40.0
	16 2-Methylphenol	1.134	1.110	0.010	2.1	40.0
	17 2,2'-oxybis(1-Chloropropane)	1.810	1.704	0.010	5.9	100.0
	18 4-Methylphenol	1.222	1.149	0.010	6.0	40.0
	19 n-Nitroso-di-n-propylamine	1.073	0.937	0.050	12.7	40.0
	20 Hexachloroethane	0.624	0.586	0.010	6.1	40.0
$	21 Nitrobenzene-d5	0.513	0.481	0.010	6.3	40.0
	22 Nitrobenzene	0.501	0.477	0.010	4.7	40.0
	23 Isophorone	0.938	0.874	0.010	6.8	40.0
	24 2-Nitrophenol	0.238	0.203	0.010	14.7	20.0
	25 2,4-Dimethylphenol	0.426	0.394	0.010	7.4	40.0
	26 bis(2-Chloroethoxy)methane	0.548	0.517	0.010	5.7	40.0
	27 2,4-Dichlorophenol	0.369	0.356	0.010	3.8	20.0
	28 Benzoic Acid	4.731	0.082	0.010	N/A	N/A
	29 1,2,4-Trichlorobenzene	0.400	0.389	0.010	2.7	40.0
	31 Naphthalene	1.101	1.093	0.010	0.7	40.0
	32 4-Chloroaniline	0.499	0.483	0.010	3.3	100.0
	33 Hexachlorobutadiene	0.247	0.233	0.010	5.5	20.0
	34 4-Chloro-3-methylphenol	0.381	0.350	0.010	8.1	20.0
	35 2-Methylnaphthalene	0.636	0.612	0.010	3.8	40.0
	36 Hexachlorocyclopentadiene	0.393	0.243	0.050	38.3	100.0
	37 2,4,6-Trichlorophenol	0.462	0.429	0.010	7.1	20.0
	38 2,4,5-Trichlorophenol	0.495	0.445	0.010	10.2	40.0
$	39 2-Fluorobiphenyl	1.546	1.551	0.010	0.3	40.0
	40 2-Chloronaphthalene	1.263	1.262	0.010	0.0	40.0

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3147.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 30-APR-97 11:15:00
Init. Calibration Date(s): 04~~/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 19:53:00
Method File: /var/chem/7002B.i/970430421r.b/cobx71.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	41 2-Nitroaniline	0.472	0.411	0.010	12.9	100.0
	42 Dimethylphthalate	1.568	1.499	0.010	4.4	100.0
	43 Acenaphthylene	1.944	1.888	0.010	2.8	40.0
	44 2,6-Dinitrotoluene	0.344	0.307	0.010	10.7	40.0
	46 3-Nitroaniline	0.318	0.297	0.010	6.7	100.0
	47 Acenaphthene	1.242	1.218	0.010	1.9	20.0
	48 2,4-Dinitrophenol	0.197	0.059	0.050	N/A	N/A
	49 Dibenzofuran	1.713	1.664	0.010	2.8	40.0
	50 4-Nitrophenol	3.612	0.124	0.050	N/A	N/A
	51 2,4-Dinitrotoluene	0.472	0.395	0.010	16.3	40.0
	52 Diethylphthalate	1.622	1.535	0.010	5.4	100.0
	53 Fluorene	1.277	1.226	0.010	4.0	40.0
	54 4-Chlorophenyl-phenylether	0.657	0.636	0.010	3.2	40.0
	55 4-Nitroaniline	0.245	0.251	0.010	2.4	100.0
	56 4,6-Dinitro-2-methylphenol	0.129	0.073	0.010	43.3	100.0
	57 n-Nitrosodiphenylamine	0.584	0.568	0.010	2.7	20.0
$	58 2,4,6-Tribromophenol	0.240	0.209	0.010	12.9	100.0
	59 4-Bromophenyl-phenylether	0.277	0.269	0.010	3.1	40.0
	60 Hexachlorobenzene	0.342	0.320	0.010	6.6	40.0
	61 Pentachlorophenol	0.162	0.120	0.010	25.7	20.0 <- Not a target compound
	63 Phenanthrene	1.151	1.110	0.010	3.5	40.0
	64 Anthracene	1.129	1.113	0.010	1.5	40.0
	65 Carbazole	0.780	0.837	0.010	7.3	100.0
	66 di-n-Butylphthalate	1.443	1.570	0.010	8.8	100.0
	67 Fluoranthene	0.886	0.998	0.010	12.6	20.0
	68 Benzidine	0.335	0.250	0.010	N/A	N/A
	69 Pyrene	2.262	1.572	0.010	30.5	40.0
$	70 Terphenyl-d14	1.798	1.399	0.010	22.2	40.0
	71 Butylbenzylphthalate	1.085	0.884	0.010	18.6	100.0
	72 Benzo(a)anthracene	1.366	1.322	0.010	3.2	40.0
	73 3,3'-Dichlorobenzidine	0.284	0.388	0.010	36.4	100.0
	75 Chrysene	1.274	1.199	0.010	5.9	40.0
	76 bis(2-Ethylhexyl)phthalate	1.418	1.219	0.010	14.0	100.0
	77 di-n-Octylphthalate	2.390	1.942	0.010	18.7	20.0
	78 Benzo(b)fluoranthene	1.324	1.323	0.010	N/A	N/A
	79 Benzo(k)fluoranthene	1.501	1.248	0.010	16.9	40.0
	80 Benzo(a)pyrene	1.052	1.035	0.010	1.7	20.0
	82 Indeno(1,2,3-cd)pyrene	1.166	1.119	0.010	4.0	40.0

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3147.d
Analysis Type:
Lab Sample ID:
Quant Type: ISTD

Injection Date: 30-APR-97 11:15:00 4/22/97
Init. Calibration Date(s): 0~~4/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970430421r.b/cobx71.m

5/6/97 AM

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
83 Dibenzo(a,h)anthracene	0.942	0.905	0.010	3.9	40.0
84 Benzo(g,h,i)perylene	0.947	0.921	0.010	2.8	40.0

Data File: /var/chem/7002B.i/970430421r.b/B3147.d

Date : 30-APR-97 11:15:00

Client ID:

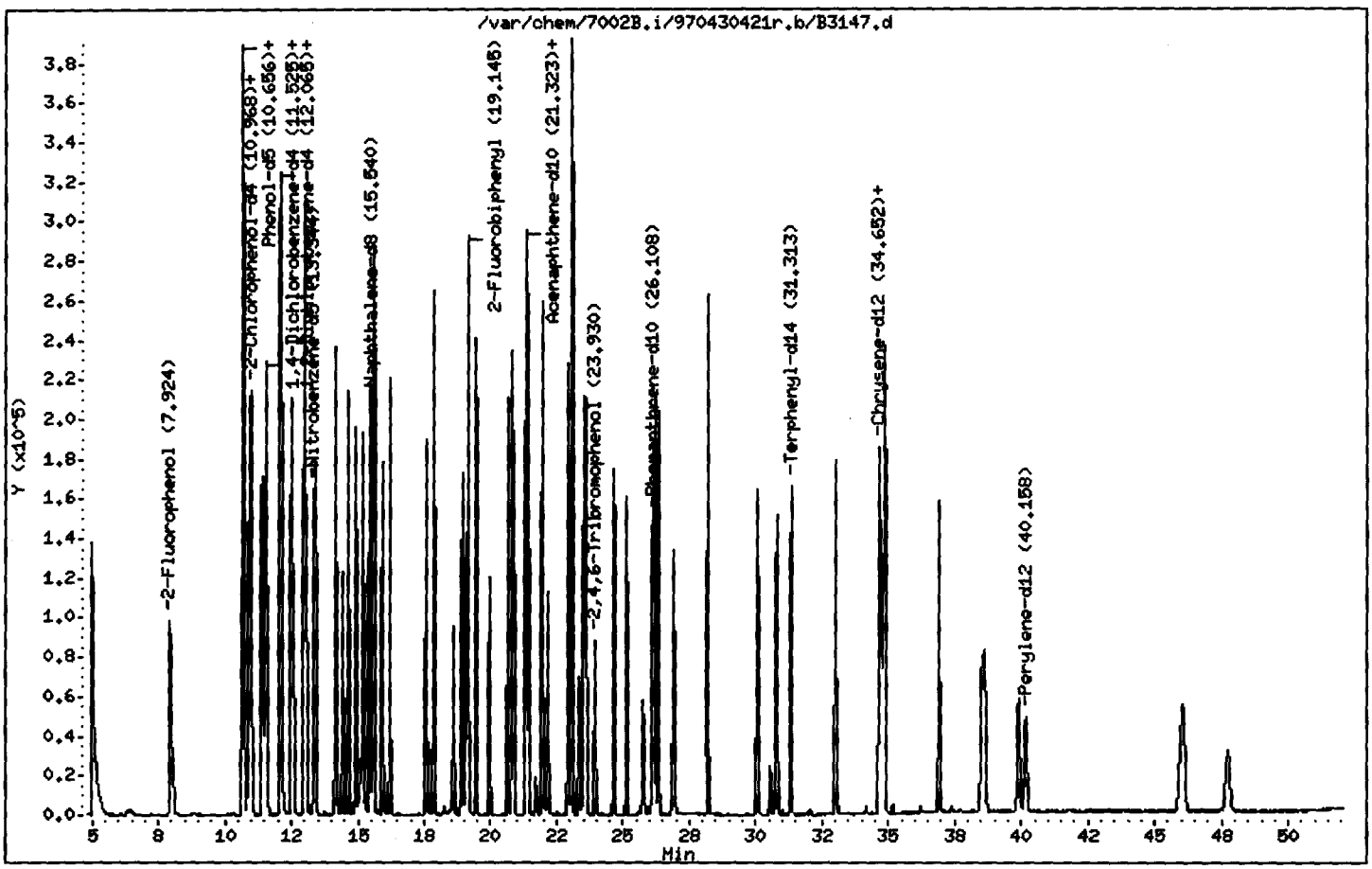
Instrument: 7002B.i

Sample Info: SSTD050

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970430421r.b/B3147.d
Lab Smp Id:
Inj Date : 30-APR-97 11:15:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD050
Misc Info : [970430421R]{COBX71},,MEI, 1171-29-1 BTL#
Comment :
Method : /var/chem/7002B.i/970430421r.b/cobx71.m
Meth Date : 30-Apr-97 13:26:02 mingalsb Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 n-Nitrosodimethylamine	74	4.964	4.964	(0.432)	106839	50.0	48.5
	2 Pyridine	79	4.981	4.981	(0.433)	169672	50.0	47.2
$	3 2-Fluorophenol	112	7.924	7.924	(0.690)	147187	50.0	47.6
$	4 Phenol-d5	99	10.639	10.639	(0.926)	184732	50.0	47.2
	5 Aniline	93	10.656	10.656	(0.927)	228757	50.0	48.6
	6 Phenol	94	10.672	10.672	(0.929)	209051	50.0	47.2
	7 bis(2-Chloroethyl)ether	93	10.853	10.853	(0.944)	169065	50.0	49.1
$	8 2-Chlorophenol-d4	132	10.918	10.918	(0.950)	154880	50.0	48.3
	9 2-Chlorophenol	128	10.968	10.968	(0.954)	159192	50.0	47.1
	10 1,3-Dichlorobenzene	146	11.377	11.377	(0.990)	177672	50.0	47.2
*	11 1,4-Dichlorobenzene-d4	152	11.492	11.492	(1.000)	93739	40.0	
	12 1,4-Dichlorobenzene	146	11.541	11.541	(1.004)	182919	50.0	47.8
$	13 1,2-Dichlorobenzene-d4	152	12.065	12.065	(1.050)	105749	50.0	48.0
	14 Benzyl alcohol	108	12.049	12.049	(1.048)	90224	50.0	49.9
	15 1,2-Dichlorobenzene	146	12.115	12.115	(1.054)	165681	50.0	48.1
	16 2-Methylphenol	108	12.475	12.475	(1.086)	130099	50.0	48.9
	17 2,2'-oxybis(1-Chloropropane)	45	12.525	12.525	(1.090)	199622	50.0	47.0
	18 4-Methylphenol	108	12.950	12.950	(1.127)	134584	50.0	47.0
	19 n-Nitroso-di-n-propylamine	70	12.983	12.983	(1.130)	109791	50.0	43.7
	20 Hexachloroethane	117	13.049	13.049	(1.135)	68677	50.0	46.9
$	21 Nitrobenzene-d5	82	13.344	13.344	(0.859)	167890	50.0	46.9
	22 Nitrobenzene	77	13.410	13.410	(0.863)	166535	50.0	47.7
	23 Isophorone	82	14.146	14.146	(0.910)	304921	50.0	46.6
	24 2-Nitrophenol	139	14.425	14.425	(0.928)	70750	50.0	42.6
	25 2,4-Dimethylphenol	107	14.622	14.622	(0.941)	137608	50.0	46.3
	26 bis(2-Chloroethoxy)methane	93	14.917	14.917	(0.960)	180478	50.0	47.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 2,4-Dichlorophenol	162	15.179	15.179	(0.977)	124067	50.0	48.1
	28 Benzoic Acid	122	15.113	15.113	(0.973)	28549	50.0	37.2
	29 1,2,4-Trichlorobenzene	180	15.425	15.425	(0.993)	135710	50.0	48.6
*	30 Naphthalene-d8	136	15.540	15.540	(1.000)	279154	40.0	
	31 Naphthalene	128	15.606	15.606	(1.004)	381525	50.0	49.6
	32 4-Chloroaniline	127	15.918	15.918	(1.024)	168520	50.0	48.3
	33 Hexachlorobutadiene	225	16.196	16.196	(1.042)	81406	50.0	47.2
	34 4-Chloro-3-methylphenol	107	17.554	17.554	(1.130)	122293	50.0	46.0
	35 2-Methylnaphthalene	141	17.849	17.849	(1.149)	213559	50.0	48.1
	36 Hexachlorocyclopentadiene	237	18.586	18.586	(0.872)	44528	50.0	30.9
	37 2,4,6-Trichlorophenol	196	18.914	18.914	(0.888)	78836	50.0	46.4
	38 2,4,5-Trichlorophenol	196	19.046	19.046	(0.894)	81680	50.0	44.9
$	39 2-Fluorobiphenyl	172	19.145	19.145	(0.899)	284703	50.0	50.2
	40 2-Chloronaphthalene	162	19.440	19.440	(0.912)	231726	50.0	50.0
	41 2-Nitroaniline	65	19.964	19.964	(0.937)	75488	50.0	43.5
	42 Dimethylphthalate	163	20.651	20.651	(0.969)	275162	50.0	47.8
	43 Acenaphthylene	152	20.815	20.815	(0.977)	346673	50.0	48.6
	44 2,6-Dinitrotoluene	165	20.881	20.881	(0.980)	56449	50.0	44.6
*	45 Acenaphthene-d10	164	21.306	21.306	(1.000)	146862	40.0	
	46 3-Nitroaniline	138	21.323	21.323	(1.001)	54501	50.0	46.6
	47 Acenaphthene	153	21.422	21.422	(1.005)	223515	50.0	49.0
	48 2,4-Dinitrophenol	184	21.684	21.684	(1.018)	10861	50.0	42.3
	49 Dibenzofuran	168	21.946	21.946	(1.030)	305542	50.0	48.6
	50 4-Nitrophenol	109	21.962	21.962	(1.031)	22786	50.0	53.7
	51 2,4-Dinitrotoluene	165	22.159	22.159	(1.040)	72467	50.0	41.8
	52 Diethylphthalate	149	22.945	22.945	(1.077)	281732	50.0	47.3
	53 Fluorene	166	23.060	23.060	(1.082)	225053	50.0	48.0
	54 4-Chlorophenyl-phenylether	204	23.077	23.077	(1.083)	116678	50.0	48.4
	55 4-Nitroaniline	138	23.339	23.339	(1.095)	46121	50.0	51.2
	56 4,6-Dinitro-2-methylphenol	198	23.487	23.487	(0.900)	19911	50.0	28.4
	57 n-Nitrosodiphenylamine	169	23.520	23.520	(0.901)	154555	50.0	48.6
$	58 2,4,6-Tribromophenol	330	23.930	23.930	(1.123)	38292	50.0	43.5
	59 4-Bromophenyl-phenylether	248	24.650	24.650	(0.945)	73077	50.0	48.4
	60 Hexachlorobenzene	284	25.125	25.125	(0.963)	87042	50.0	46.7
	61 Pentachlorophenol	266	25.747	25.747	(0.987)	32765	50.0	37.1
*	62 Phenanthrene-d10	188	26.091	26.091	(1.000)	217689	40.0	
	63 Phenanthrene	178	26.174	26.174	(1.003)	302098	50.0	48.2
	64 Anthracene	178	26.321	26.321	(1.009)	302811	50.0	49.3
	65 Carbazole	167	26.894	26.894	(1.031)	227635	50.0	53.6
	66 di-n-Butylphthalate	149	28.187	28.187	(1.080)	427286	50.0	54.4
	67 Fluoranthene	202	30.052	30.052	(1.152)	271693	50.0	56.3
	68 Benzidine	184	30.526	30.526	(0.879)	40216	50.0	44.6
	69 Pyrene	202	30.772	30.772	(0.886)	253338	50.0	34.7
$	70 Terphenyl-d14	244	31.313	31.313	(0.902)	225452	50.0	38.9
	71 Butylbenzylphthalate	149	32.982	32.982	(0.950)	142399	50.0	40.7
	72 Benzo(a)anthracene	228	34.652	34.652	(0.998)	213036	50.0	48.4
	73 3,3'-Dichlorobenzidine	252	34.635	34.635	(0.998)	62477	50.0	68.2

Data File: /var/chem/7002B.i/970430421r.b/B3147.d
Report Date: 05-May-97 13:38:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 74 Chrysene-d12	240	34.718	34.718	(1.000)	128935	40.0	
75 Chrysene	228	34.801	34.801	(1.002)	193310	50.0	47.1
76 bis(2-Ethylhexyl)phthalate	149	34.867	34.867	(1.004)	196497	50.0	43.0
77 di-n-Octylphthalate	149	36.897	36.897	(0.919)	284291	50.0	40.6
78 Benzo(b)fluoranthene	252	38.518	38.518	(0.959)	193646	50.0	56.5
79 Benzo(k)fluoranthene	252	38.601	38.601	(0.961)	182733	50.0	41.6
80 Benzo(a)pyrene	252	39.895	39.895	(0.993)	151529	50.0	49.2
* 81 Perylene-d12	264	40.158	40.158	(1.000)	117121	40.0	
82 Indeno(1,2,3-cd)pyrene	276	46.003	46.003	(1.146)	163864	50.0	48.0
83 Dibenzo(a,h)anthracene	278	46.069	46.069	(1.147)	132563	50.0	48.0
84 Benzo(g,h,i)perylene	276	47.724	47.724	(1.188)	134838	50.0	48.6

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3159.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 30-APR-97 23:49:00 4/30/97
Init. Calibration Date(s): ~~04/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970430422r.b/cobx71.m

5/6/97
M

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 n-Nitrosodimethylamine	0.941	0.996	0.010	5.9	100.0
	2 Pyridine	1.534	1.439	0.010	6.2	100.0
$	3 2-Fluorophenol	1.319	1.300	0.010	1.4	40.0
$	4 Phenol-d5	1.670	1.643	0.010	1.6	40.0
	5 Aniline	2.007	1.922	0.010	4.2	100.0
	6 Phenol	1.888	1.812	0.010	4.1	20.0
	7 bis(2-Chloroethyl)ether	1.470	1.376	0.010	6.4	40.0
$	8 2-Chlorophenol-d4	1.368	1.326	0.010	3.0	40.0
	9 2-Chlorophenol	1.441	1.374	0.010	4.7	40.0
	10 1,3-Dichlorobenzene	1.605	1.576	0.010	1.8	40.0
	12 1,4-Dichlorobenzene	1.633	1.562	0.010	4.4	20.0
$	13 1,2-Dichlorobenzene-d4	0.939	0.904	0.010	3.7	40.0
	14 Benzyl alcohol	0.772	0.742	0.010	3.9	100.0
	15 1,2-Dichlorobenzene	1.471	1.416	0.010	3.7	40.0
	16 2-Methylphenol	1.134	1.081	0.010	4.7	40.0
	17 2,2'-oxybis(1-Chloropropane)	1.810	1.644	0.010	9.2	100.0
	18 4-Methylphenol	1.222	1.149	0.010	6.0	40.0
	19 n-Nitroso-di-n-propylamine	1.073	0.952	0.050	11.3	40.0
	20 Hexachloroethane	0.624	0.586	0.010	6.1	40.0
$	21 Nitrobenzene-d5	0.513	0.532	0.010	3.7	40.0
	22 Nitrobenzene	0.501	0.522	0.010	4.3	40.0
	23 Isophorone	0.938	0.868	0.010	7.5	40.0
	24 2-Nitrophenol	0.238	0.234	0.010	1.6	20.0
	25 2,4-Dimethylphenol	0.426	0.414	0.010	2.7	40.0
	26 bis(2-Chloroethoxy)methane	0.548	0.564	0.010	2.8	40.0
	27 2,4-Dichlorophenol	0.369	0.378	0.010	2.2	20.0
	28 Benzoic Acid	4.731	0.118	0.010	N/A	N/A
	29 1,2,4-Trichlorobenzene	0.400	0.401	0.010	0.3	40.0
	31 Naphthalene	1.101	1.120	0.010	1.7	40.0
	32 4-Chloroaniline	0.499	0.520	0.010	4.0	100.0
	33 Hexachlorobutadiene	0.247	0.263	0.010	6.5	20.0
	34 4-Chloro-3-methylphenol	0.381	0.355	0.010	7.0	20.0
	35 2-Methylnaphthalene	0.636	0.564	0.010	11.3	40.0
	36 Hexachlorocyclopentadiene	0.393	0.300	0.050	23.7	100.0
	37 2,4,6-Trichlorophenol	0.462	0.479	0.010	3.5	20.0
	38 2,4,5-Trichlorophenol	0.495	0.480	0.010	3.1	40.0
$	39 2-Fluorobiphenyl	1.546	1.701	0.010	10.0	40.0
	40 2-Chloronaphthalene	1.263	1.335	0.010	5.8	40.0

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3159.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 30-APR-97 23:49:00 4/22/97
Init. Calibration Date(s): 04~~/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970430422r.b/cobx71.m

5/6/97 ML

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	41 2-Nitroaniline	0.472	0.444	0.010	6.0	100.0
	42 Dimethylphthalate	1.568	1.449	0.010	7.6	100.0
	43 Acenaphthylene	1.944	1.870	0.010	3.8	40.0
	44 2,6-Dinitrotoluene	0.344	0.316	0.010	8.3	40.0
	46 3-Nitroaniline	0.318	0.304	0.010	4.5	100.0
	47 Acenaphthene	1.242	1.187	0.010	4.4	20.0
	48 2,4-Dinitrophenol	0.197	0.075	0.050	N/A	N/A
	49 Dibenzofuran	1.713	1.542	0.010	10.0	40.0
	50 4-Nitrophenol	3.612	0.118	0.050	N/A	N/A
	51 2,4-Dinitrotoluene	0.472	0.363	0.010	23.1	40.0
	52 Diethylphthalate	1.622	1.337	0.010	17.5	100.0
	53 Fluorene	1.277	1.144	0.010	10.4	40.0
	54 4-Chlorophenyl-phenylether	0.657	0.614	0.010	6.5	40.0
	55 4-Nitroaniline	0.245	0.209	0.010	14.9	100.0
	56 4,6-Dinitro-2-methylphenol	0.129	0.095	0.010	26.4	100.0
	57 n-Nitrosodiphenylamine	0.584	0.647	0.010	10.8	20.0
$	58 2,4,6-Tribromophenol	0.240	0.207	0.010	13.6	100.0
	59 4-Bromophenyl-phenylether	0.277	0.305	0.010	10.1	40.0
	60 Hexachlorobenzene	0.342	0.357	0.010	4.1	40.0
	61 Pentachlorophenol	0.162	0.139	0.010	14.5	20.0
	63 Phenanthrene	1.151	1.115	0.010	3.1	40.0
	64 Anthracene	1.129	1.127	0.010	0.2	40.0
	65 Carbazole	0.780	0.746	0.010	4.3	100.0
	66 di-n-Butylphthalate	1.443	1.454	0.010	0.8	100.0
	67 Fluoranthene	0.886	0.906	0.010	2.2	20.0
	68 Benzidine	0.335	0.095	0.010	N/A	N/A
	69 Pyrene	2.262	1.805	0.010	20.2	40.0
$	70 Terphenyl-d14	1.798	1.517	0.010	15.7	40.0
	71 Butylbenzylphthalate	1.085	0.924	0.010	14.9	100.0
	72 Benzo(a)anthracene	1.366	1.283	0.010	6.0	40.0
	73 3,3'-Dichlorobenzidine	0.284	0.379	0.010	33.3	100.0
	75 Chrysene	1.274	1.238	0.010	2.8	40.0
	76 bis(2-Ethylhexyl)phthalate	1.418	1.285	0.010	9.4	100.0
	77 di-n-Octylphthalate	2.390	1.951	0.010	18.4	20.0
	78 Benzo(b)fluoranthene	1.324	1.050	0.010	N/A	N/A
	79 Benzo(k)fluoranthene	1.501	1.253	0.010	16.5	40.0
	80 Benzo(a)pyrene	1.052	1.012	0.010	3.8	20.0
	82 Indeno(1,2,3-cd)pyrene	1.166	1.165	0.010	0.1	40.0

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3159.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 30-APR-97 23:49:00 4/22/97
Init. Calibration Date(s): 04~~/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970430422r.b/cobx71.m

5/6/97

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
83 Dibenzo(a,h)anthracene	0.942	0.944	0.010	0.2	40.0
84 Benzo(g,h,i)perylene	0.947	0.955	0.010	0.8	40.0

Data File: /var/chem/7002B.i/970430422r.b/B3159.d

Date : 30-APR-97 23:49:00

Client ID:

Instrument: 7002B.i

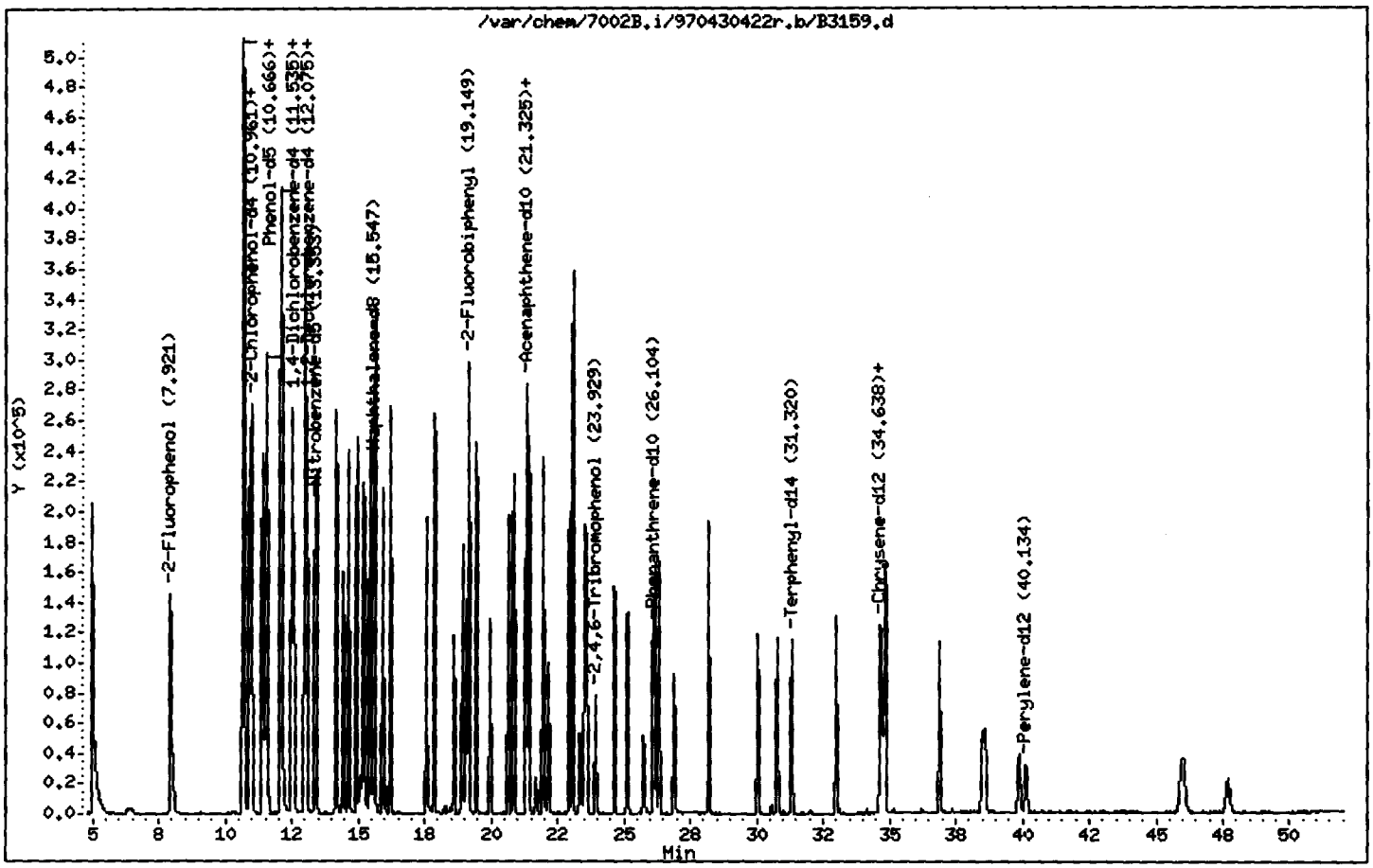
Sample Info: SSTD050

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970430422r.b/B3159.d
Lab Smp Id:
Inj Date : 30-APR-97 23:49:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD050
Misc Info : [970430422R]{COBX71},,DCE, 1171-29-1 BTL#
Comment :
Method : /var/chem/7002B.i/970430422r.b/cobx71.m
Meth Date : 01-May-97 00:43:59 Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 n-Nitrosodimethylamine	74	4.979	4.979	(0.434)	146675	50.0	52.9
	2 Pyridine	79	4.963	4.963	(0.432)	212027	50.0	46.9
$	3 2-Fluorophenol	112	7.921	7.921	(0.690)	191516	50.0	49.3
$	4 Phenol-d5	99	10.650	10.650	(0.927)	242011	50.0	49.2
	5 Aniline	93	10.666	10.666	(0.929)	283102	50.0	47.9
	6 Phenol	94	10.682	10.682	(0.930)	266872	50.0	48.0
	7 bis(2-Chloroethyl)ether	93	10.863	10.863	(0.946)	202623	50.0	46.8
$	8 2-Chlorophenol-d4	132	10.928	10.928	(0.952)	195318	50.0	48.5
	9 2-Chlorophenol	128	10.978	10.978	(0.956)	202360	50.0	47.7
	10 1,3-Dichlorobenzene	146	11.370	11.370	(0.990)	232198	50.0	49.1
*	11 1,4-Dichlorobenzene-d4	152	11.485	11.485	(1.000)	117841	40.0	
	12 1,4-Dichlorobenzene	146	11.535	11.535	(1.004)	230027	50.0	47.8
$	13 1,2-Dichlorobenzene-d4	152	12.075	12.075	(1.051)	133207	50.0	48.2
	14 Benzyl alcohol	108	12.058	12.058	(1.050)	109235	50.0	48.0
	15 1,2-Dichlorobenzene	146	12.108	12.108	(1.054)	208606	50.0	48.1

Data File: /var/chem/7002B.i/970430422r.b/B3159.d
Report Date: 01-May-97 00:44:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	16 2-Methylphenol	108	12.484	12.484	(1.087)	159247	50.0	47.6
	17 2,2'-oxybis(1-Chloropropane)	45	12.534	12.534	(1.091)	242113	50.0	45.4
	18 4-Methylphenol	108	12.959	12.959	(1.128)	169227	50.0	47.0
	19 n-Nitroso-di-n-propylamine	70	12.992	12.992	(1.131)	140245	50.0	44.4
	20 Hexachloroethane	117	13.058	13.058	(1.137)	86299	50.0	46.9
$	21 Nitrobenzene-d5	82	13.353	13.353	(0.859)	208258	50.0	51.8
	22 Nitrobenzene	77	13.418	13.418	(0.863)	204421	50.0	52.2
	23 Isophorone	82	14.154	14.154	(0.910)	339609	50.0	46.2
	24 2-Nitrophenol	139	14.432	14.432	(0.928)	91556	50.0	49.2
	25 2,4-Dimethylphenol	107	14.629	14.629	(0.941)	162041	50.0	48.6
	26 bis(2-Chloroethoxy)methane	93	14.924	14.924	(0.960)	220691	50.0	51.4
	27 2,4-Dichlorophenol	162	15.186	15.186	(0.977)	147802	50.0	51.1
	28 Benzoic Acid	122	15.153	15.153	(0.975)	46070	50.0	45.2(a)
	29 1,2,4-Trichlorobenzene	180	15.432	15.432	(0.993)	156943	50.0	50.1
*	30 Naphthalene-d8	136	15.547	15.547	(1.000)	313131	40.0	
	31 Naphthalene	128	15.613	15.613	(1.004)	438210	50.0	50.8
	32 4-Chloroaniline	127	15.924	15.924	(1.024)	203349	50.0	52.0
	33 Hexachlorobutadiene	225	16.203	16.203	(1.042)	102914	50.0	53.2
	34 4-Chloro-3-methylphenol	107	17.559	17.559	(1.129)	138774	50.0	46.5
	35 2-Methylnaphthalene	141	17.854	17.854	(1.148)	220849	50.0	44.3
	36 Hexachlorocyclopentadiene	237	18.607	18.607	(0.873)	53873	50.0	38.1
	37 2,4,6-Trichlorophenol	196	18.918	18.918	(0.887)	86075	50.0	51.8
	38 2,4,5-Trichlorophenol	196	19.050	19.050	(0.893)	86292	50.0	48.4(a)
$	39 2-Fluorobiphenyl	172	19.149	19.149	(0.898)	305819	50.0	55.0
	40 2-Chloronaphthalene	162	19.444	19.444	(0.912)	240064	50.0	52.9
	41 2-Nitroaniline	65	19.967	19.967	(0.936)	79800	50.0	47.0(a)
	42 Dimethylphthalate	163	20.653	20.653	(0.969)	260453	50.0	46.2
	43 Acenaphthylene	152	20.817	20.817	(0.976)	336117	50.0	48.1
	44 2,6-Dinitrotoluene	165	20.883	20.883	(0.979)	56792	50.0	45.8
*	45 Acenaphthene-d10	164	21.325	21.325	(1.000)	143816	40.0	
	46 3-Nitroaniline	138	21.325	21.325	(1.000)	54612	50.0	47.7(a)
	47 Acenaphthene	153	21.423	21.423	(1.005)	213349	50.0	47.8
	48 2,4-Dinitrophenol	184	21.685	21.685	(1.017)	13475	50.0	46.3(a)
	49 Dibenzofuran	168	21.947	21.947	(1.029)	277270	50.0	45.0
	50 4-Nitrophenol	109	21.964	21.964	(1.030)	21301	50.0	52.5
	51 2,4-Dinitrotoluene	165	22.160	22.160	(1.039)	65234	50.0	38.5
	52 Diethylphthalate	149	22.945	22.945	(1.076)	240432	50.0	41.2
	53 Fluorene	166	23.060	23.060	(1.081)	205733	50.0	44.8
	54 4-Chlorophenyl-phenylether	204	23.077	23.077	(1.082)	110416	50.0	46.8
	55 4-Nitroaniline	138	23.339	23.339	(1.094)	37513	50.0	42.5(a)
	56 4,6-Dinitro-2-methylphenol	198	23.486	23.486	(0.900)	20679	50.0	36.8(a)
	57 n-Nitrosodiphenylamine	169	23.519	23.519	(0.901)	140998	50.0	55.4
$	58 2,4,6-Tribromophenol	330	23.929	23.929	(1.122)	37211	50.0	43.2
	59 4-Bromophenyl-phenylether	248	24.648	24.648	(0.944)	66458	50.0	55.0
	60 Hexachlorobenzene	284	25.139	25.139	(0.963)	77669	50.0	52.0
	61 Pentachlorophenol	266	25.744	25.744	(0.986)	30184	50.0	42.7(a)
*	62 Phenanthrene-d10	188	26.104	26.104	(1.000)	174287	40.0	

Data File: /var/chem/7002B.i/970430422r.b/B3159.d
Report Date: 01-May-97 00:44:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 Phenanthrene	178	26.170	26.170	(1.003)	242899	50.0	48.4
64 Anthracene	178	26.318	26.318	(1.008)	245534	50.0	49.9
65 Carbazole	167	26.907	26.907	(1.031)	162627	50.0	47.8
66 di-n-Butylphthalate	149	28.181	28.181	(1.080)	316800	50.0	50.4
67 Fluoranthene	202	30.044	30.044	(1.151)	197291	50.0	51.1
68 Benzidine	184	30.534	30.534	(0.880)	10201	50.0	21.6(a)
69 Pyrene	202	30.780	30.780	(0.887)	192878	50.0	39.9
$ 70 Terphenyl-d14	244	31.303	31.303	(0.902)	162089	50.0	42.2
71 Butylbenzylphthalate	149	32.987	32.987	(0.951)	98723	50.0	42.6
72 Benzo(a)anthracene	228	34.638	34.638	(0.998)	137104	50.0	47.0
73 3,3'-Dichlorobenzidine	252	34.638	34.638	(0.998)	40476	50.0	66.7
* 74 Chrysene-d12	240	34.704	34.704	(1.000)	85489	40.0	
75 Chrysene	228	34.786	34.786	(1.002)	132294	50.0	48.6
76 bis(2-Ethylhexyl)phthalate	149	34.852	34.852	(1.004)	137284	50.0	45.3
77 di-n-Octylphthalate	149	36.895	36.895	(0.919)	197723	50.0	40.8
78 Benzo(b)fluoranthene	252	38.498	38.498	(0.959)	106409	50.0	46.2
79 Benzo(k)fluoranthene	252	38.596	38.596	(0.962)	127041	50.0	41.7
80 Benzo(a)pyrene	252	39.872	39.872	(0.993)	102601	50.0	48.1
* 81 Perylene-d12	264	40.134	40.134	(1.000)	81084	40.0	
82 Indeno(1,2,3-cd)pyrene	276	45.939	45.939	(1.145)	118129	50.0	50.0
83 Dibenzo(a,h)anthracene	278	46.038	46.038	(1.147)	95726	50.0	50.1
84 Benzo(g,h,i)perylene	276	47.690	47.690	(1.188)	96789	50.0	50.4

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3173.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 01-MAY-97 15:26:00 4/22/97
Init. Calibration Date(s): ~~04/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970501421r.b/cobx71.m

5/6/97

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 n-Nitrosodimethylamine	0.941	1.051	0.010	11.7	100.0
	2 Pyridine	1.534	1.991	0.010	29.8	100.0
$	3 2-Fluorophenol	1.319	1.665	0.010	26.2	40.0
$	4 Phenol-d5	1.670	2.060	0.010	23.4	40.0
	5 Aniline	2.007	2.235	0.010	11.4	100.0
	6 Phenol	1.888	2.082	0.010	10.3	20.0
	7 bis(2-Chloroethyl)ether	1.470	1.581	0.010	7.6	40.0
$	8 2-Chlorophenol-d4	1.368	1.612	0.010	17.9	40.0
	9 2-Chlorophenol	1.441	1.499	0.010	4.0	40.0
	10 1,3-Dichlorobenzene	1.605	1.631	0.010	1.6	40.0
	12 1,4-Dichlorobenzene	1.633	1.655	0.010	1.3	20.0
$	13 1,2-Dichlorobenzene-d4	0.939	1.044	0.010	11.2	40.0
	14 Benzyl alcohol	0.772	0.773	0.010	0.2	100.0
	15 1,2-Dichlorobenzene	1.471	1.506	0.010	2.4	40.0
	16 2-Methylphenol	1.134	1.279	0.010	12.8	40.0
	17 2,2'-oxybis(1-Chloropropane)	1.810	1.717	0.010	5.2	100.0
	18 4-Methylphenol	1.222	1.327	0.010	8.5	40.0
	19 n-Nitroso-di-n-propylamine	1.073	0.999	0.050	6.9	40.0
	20 Hexachloroethane	0.624	0.626	0.010	0.2	40.0
$	21 Nitrobenzene-d5	0.513	0.660	0.010	28.5	40.0
	22 Nitrobenzene	0.501	0.587	0.010	17.2	40.0
	23 Isophorone	0.938	0.939	0.010	0.1	40.0
	24 2-Nitrophenol	0.238	0.236	0.010	0.6	20.0
	25 2,4-Dimethylphenol	0.426	0.459	0.010	7.9	40.0
	26 bis(2-Chloroethoxy)methane	0.548	0.634	0.010	15.6	40.0
	27 2,4-Dichlorophenol	0.369	0.394	0.010	6.6	20.0
	28 Benzoic Acid	4.731	0.084	0.010	N/A	N/A
	29 1,2,4-Trichlorobenzene	0.400	0.426	0.010	6.6	40.0
	31 Naphthalene	1.101	1.133	0.010	2.9	40.0
	32 4-Chloroaniline	0.499	0.563	0.010	12.7	100.0
	33 Hexachlorobutadiene	0.247	0.286	0.010	15.9	20.0
	34 4-Chloro-3-methylphenol	0.381	0.385	0.010	0.9	20.0
	35 2-Methylnaphthalene	0.636	0.589	0.010	7.4	40.0
	36 Hexachlorocyclopentadiene	0.393	0.196	0.050	50.2	100.0
	37 2,4,6-Trichlorophenol	0.462	0.474	0.010	2.6	20.0
	38 2,4,5-Trichlorophenol	0.495	0.556	0.010	12.2	40.0
$	39 2-Fluorobiphenyl	1.546	1.932	0.010	25.0	40.0
	40 2-Chloronaphthalene	1.263	1.424	0.010	12.8	40.0

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3173.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 01-MAY-97 15:26:00 4/22/97
Init. Calibration Date(s): ~~04/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970501421r.b/cobx71.m

5/6/97 MR

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
41 2-Nitroaniline	0.472	0.516	0.010	9.2	100.0
42 Dimethylphthalate	1.568	1.634	0.010	4.3	100.0
43 Acenaphthylene	1.944	1.970	0.010	1.4	40.0
44 2,6-Dinitrotoluene	0.344	0.354	0.010	2.8	40.0
46 3-Nitroaniline	0.318	0.342	0.010	7.4	100.0
47 Acenaphthene	1.242	1.295	0.010	4.3	20.0
48 2,4-Dinitrophenol	0.197	0.036	0.050	N/A	N/A
49 Dibenzofuran	1.713	1.662	0.010	3.0	40.0
50 4-Nitrophenol	3.612	0.090	0.050	N/A	N/A
51 2,4-Dinitrotoluene	0.472	0.400	0.010	15.2	40.0
52 Diethylphthalate	1.622	1.502	0.010	7.4	100.0
53 Fluorene	1.277	1.235	0.010	3.3	40.0
54 4-Chlorophenyl-phenylether	0.657	0.706	0.010	7.5	40.0
55 4-Nitroaniline	0.245	0.232	0.010	5.4	100.0
56 4,6-Dinitro-2-methylphenol	0.129	0.063	0.010	51.3	100.0
57 n-Nitrosodiphenylamine	0.584	0.642	0.010	10.0	20.0
$ 58 2,4,6-Tribromophenol	0.240	0.242	0.010	1.2	100.0
59 4-Bromophenyl-phenylether	0.277	0.311	0.010	12.1	40.0
60 Hexachlorobenzene	0.342	0.354	0.010	3.4	40.0
61 Pentachlorophenol	0.162	0.089	0.010	45.2	20.0 <- not a target compound
63 Phenanthrene	1.151	1.185	0.010	3.0	40.0
64 Anthracene	1.129	1.132	0.010	0.2	40.0
65 Carbazole	0.780	0.928	0.010	19.0	100.0
66 di-n-Butylphthalate	1.443	1.539	0.010	6.7	100.0
67 Fluoranthene	0.886	1.026	0.010	15.7	20.0
68 Benzidine	0.335	0.072	0.010	N/A	N/A
69 Pyrene	2.262	1.936	0.010	14.4	40.0
$ 70 Terphenyl-d14	1.798	1.794	0.010	0.2	40.0
71 Butylbenzylphthalate	1.085	1.073	0.010	1.1	100.0
72 Benzo(a)anthracene	1.366	1.344	0.010	1.6	40.0
73 3,3'-Dichlorobenzidine	0.284	0.349	0.010	22.9	100.0
75 Chrysene	1.274	1.292	0.010	1.4	40.0
76 bis(2-Ethylhexyl)phthalate	1.418	1.572	0.010	10.9	100.0
77 di-n-Octylphthalate	2.390	2.963	0.010	24.0	20.0 <- not a target compound
78 Benzo(b)fluoranthene	1.324	1.532	0.010	N/A	N/A
79 Benzo(k)fluoranthene	1.501	1.383	0.010	7.8	40.0
80 Benzo(a)pyrene	1.052	1.054	0.010	0.2	20.0
82 Indeno(1,2,3-cd)pyrene	1.166	1.061	0.010	9.0	40.0

Ecology & Environment, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 7002B.i
Lab File ID: B3173.d
Analysis Type: WATER
Lab Sample ID:
Quant Type: ISTD

Injection Date: 01-MAY-97 15:26:00 4/22/97
Init. Calibration Date(s): ~~04/14/97~~ 04/22/97
Init. Calibration Times: ~~14:44:00~~ 1438 19:53:00
Method File: /var/chem/7002B.i/970501421r.b/cobx71.m

5/6/97

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
83 Dibenzo(a,h)anthracene	0.942	0.827	0.010	12.2	40.0
84 Benzo(g,h,i)perylene	0.947	0.830	0.010	12.3	40.0

Data File: /var/chem/7002B.i/970501421r.b/B3173.d

Date : 01-MAY-97 15:26:00

Client ID:

Instrument: 7002B.i

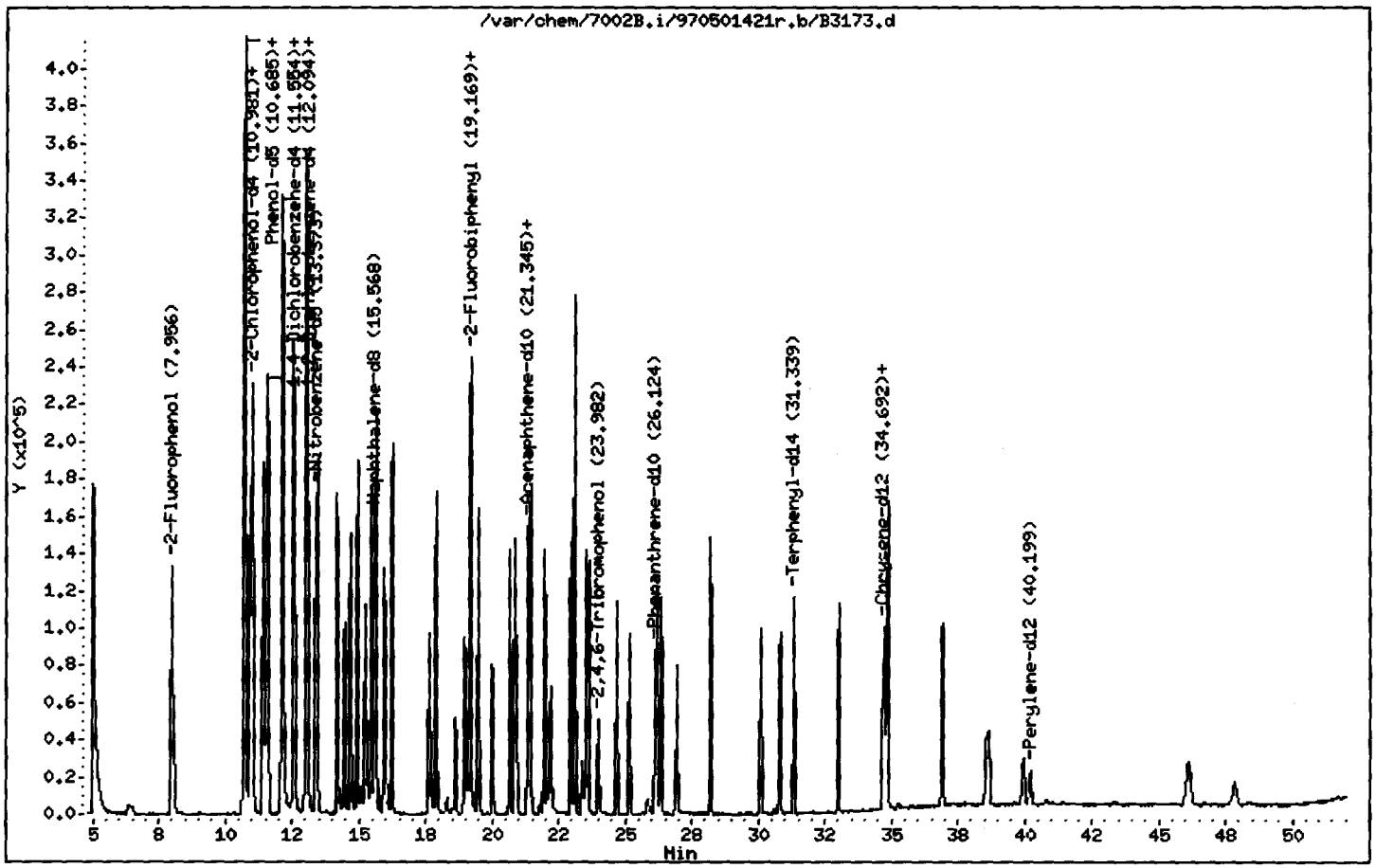
Sample Info: SSTD050

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970501421r.b/B3173.d
Lab Smp Id:
Inj Date : 01-MAY-97 15:26:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : SSTD050
Misc Info : [970501421R]{COBX71},,MEI, 1171-30-3 BTL#
Comment :
Method : /var/chem/7002B.i/970501421r.b/cobx71.m
Meth Date : 01-May-97 17:18:56 dennis Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BaseNeutrals.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 n-Nitrosodimethylamine	74	4.996	4.996	(0.434)	116474	50.0	55.8
	2 Pyridine	79	4.980	4.980	(0.433)	220689	50.0	64.9(M)
	5 Aniline	93	10.685	10.685	(0.929)	247776	50.0	55.7
	7 bis(2-Chloroethyl)ether	93	10.882	10.882	(0.946)	175283	50.0	53.8
	10 1,3-Dichlorobenzene	146	11.390	11.390	(0.990)	180819	50.0	50.8
*	11 1,4-Dichlorobenzene-d4	152	11.505	11.505	(1.000)	88686	40.0	
	12 1,4-Dichlorobenzene	146	11.554	11.554	(1.004)	183453	50.0	50.7
$	13 1,2-Dichlorobenzene-d4	152	12.094	12.094	(1.051)	115790	50.0	55.6
	14 Benzyl alcohol	108	12.078	12.078	(1.050)	85708	50.0	50.1
	15 1,2-Dichlorobenzene	146	12.127	12.127	(1.054)	166948	50.0	51.2
	17 2,2'-oxybis(1-Chloropropane)	45	12.537	12.537	(1.090)	190348	50.0	47.4
	19 n-Nitroso-di-n-propylamine	70	12.996	12.996	(1.130)	110770	50.0	46.6
	20 Hexachloroethane	117	13.062	13.062	(1.135)	69349	50.0	50.1
$	21 Nitrobenzene-d5	82	13.373	13.373	(0.859)	178786	50.0	64.2
	22 Nitrobenzene	77	13.422	13.422	(0.862)	159007	50.0	58.6

Data File: /var/chem/7002B.i/970501421r.b/B3173.d
Report Date: 01-May-97 17:18:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
23 Isophorone	82	14.158	14.158	(0.909)	254522	50.0	50.1
26 bis(2-Chloroethoxy)methane	93	14.928	14.928	(0.959)	171892	50.0	57.8
29 1,2,4-Trichlorobenzene	180	15.436	15.436	(0.992)	115463	50.0	53.3
* 30 Naphthalene-d8	136	15.568	15.568	(1.000)	216827	40.0	
31 Naphthalene	128	15.617	15.617	(1.003)	307061	50.0	51.4
32 4-Chloroaniline	127	15.945	15.945	(1.024)	152525	50.0	56.3
33 Hexachlorobutadiene	225	16.224	16.224	(1.042)	77579	50.0	58.0
35 2-Methylnaphthalene	141	17.875	17.875	(1.148)	159634	50.0	46.3
36 Hexachlorocyclopentadiene	237	18.611	18.611	(0.873)	23261	50.0	24.9
$ 39 2-Fluorobiphenyl	172	19.169	19.169	(0.899)	229765	50.0	62.5
40 2-Chloronaphthalene	162	19.464	19.464	(0.913)	169367	50.0	56.4
41 2-Nitroaniline	65	19.987	19.987	(0.937)	61311	50.0	54.6
42 Dimethylphthalate	163	20.657	20.657	(0.969)	194347	50.0	52.1
43 Acenaphthylene	152	20.838	20.838	(0.977)	234301	50.0	50.7
44 2,6-Dinitrotoluene	165	20.903	20.903	(0.980)	42109	50.0	51.4
* 45 Acenaphthene-d10	164	21.329	21.329	(1.000)	95135	40.0	
46 3-Nitroaniline	138	21.362	21.362	(1.002)	40640	50.0	53.7
47 Acenaphthene	153	21.444	21.444	(1.005)	153995	50.0	52.1
49 Dibenzofuran	168	21.967	21.967	(1.030)	197608	50.0	48.5
51 2,4-Dinitrotoluene	165	22.197	22.197	(1.041)	47539	50.0	42.4
52 Diethylphthalate	149	22.949	22.949	(1.076)	178601	50.0	46.3
53 Fluorene	166	23.097	23.097	(1.083)	146858	50.0	48.3
54 4-Chlorophenyl-phenylether	204	23.097	23.097	(1.083)	84005	50.0	53.8
55 4-Nitroaniline	138	23.392	23.392	(1.097)	27580	50.0	47.3(a)
57 n-Nitrosodiphenylamine	169	23.539	23.539	(0.901)	102383	50.0	55.0
59 4-Bromophenyl-phenylether	248	24.668	24.668	(0.944)	49537	50.0	56.0
60 Hexachlorobenzene	284	25.159	25.159	(0.963)	56449	50.0	51.7
* 62 Phenanthrene-d10	188	26.124	26.124	(1.000)	127556	40.0	
63 Phenanthrene	178	26.206	26.206	(1.003)	188986	50.0	51.5
64 Anthracene	178	26.354	26.354	(1.009)	180468	50.0	50.1
65 Carbazole	167	26.943	26.943	(1.031)	147956	50.0	59.5
66 di-n-Butylphthalate	149	28.201	28.201	(1.079)	245410	50.0	53.3
67 Fluoranthene	202	30.080	30.080	(1.151)	163581	50.0	57.9
68 Benzidine	184	30.619	30.619	(0.881)	5924	50.0	18.0(a)
69 Pyrene	202	30.815	30.815	(0.887)	160146	50.0	42.8
$ 70 Terphenyl-d14	244	31.339	31.339	(0.902)	148413	50.0	49.9
71 Butylbenzylphthalate	149	33.006	33.006	(0.950)	88761	50.0	49.4
72 Benzo(a)anthracene	228	34.675	34.675	(0.998)	111152	50.0	49.2
73 3,3'-Dichlorobenzidine	252	34.675	34.675	(0.998)	28868	50.0	61.4
* 74 Chrysene-d12	240	34.741	34.741	(1.000)	66168	40.0	
75 Chrysene	228	34.824	34.824	(1.002)	106884	50.0	50.7
76 bis(2-Ethylhexyl)phthalate	149	34.873	34.873	(1.004)	130022	50.0	55.4
77 di-n-Octylphthalate	149	36.920	36.920	(0.918)	177887	50.0	62.0
78 Benzo(b)fluoranthene	252	38.576	38.576	(0.960)	91998	50.0	64.4
79 Benzo(k)fluoranthene	252	38.641	38.641	(0.961)	83053	50.0	46.1
80 Benzo(a)pyrene	252	39.936	39.936	(0.993)	63306	50.0	50.1
* 81 Perylene-d12	264	40.199	40.199	(1.000)	48030	40.0	

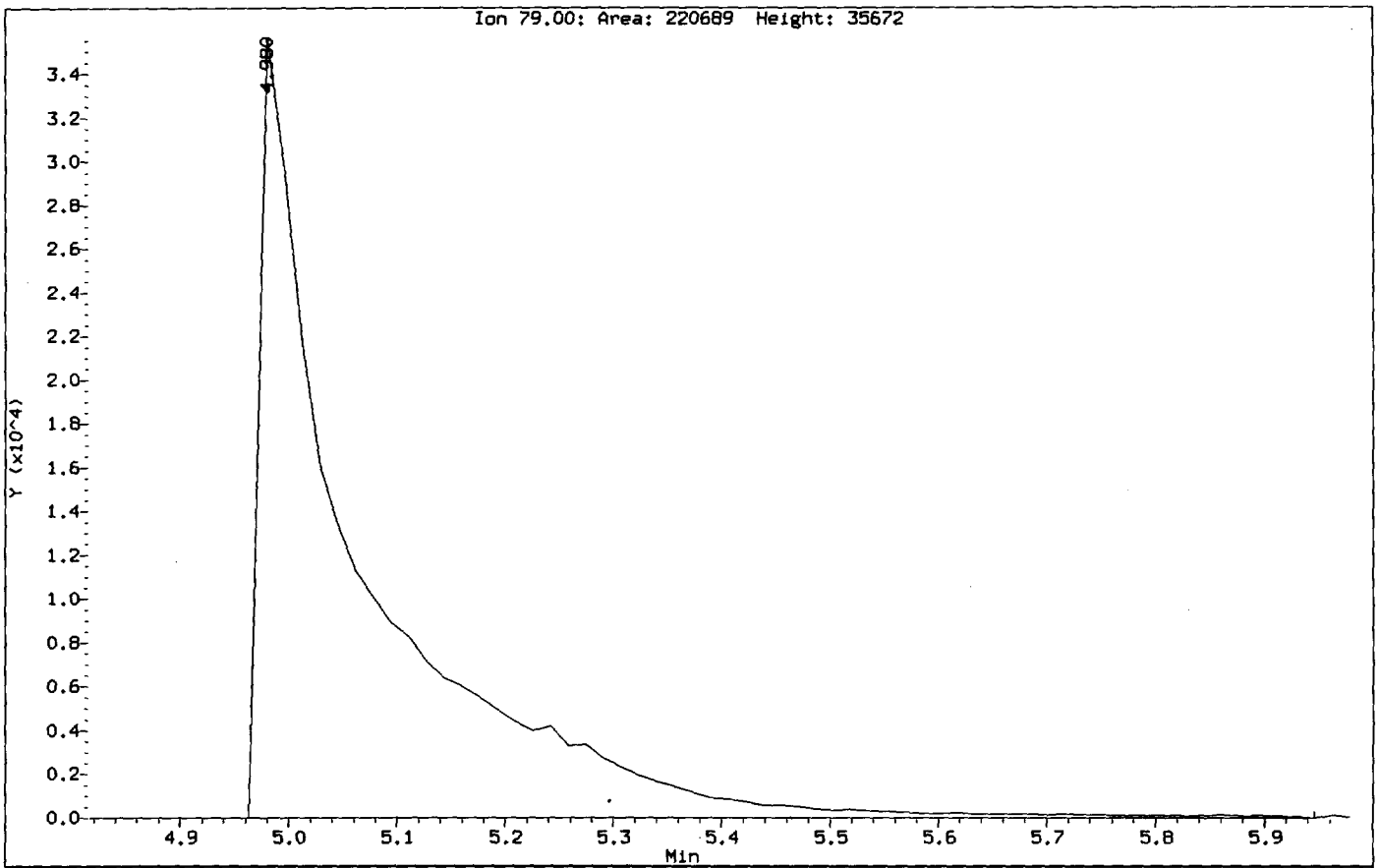
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
82 Indeno(1,2,3-cd)pyrene	276	46.081	46.081	(1.146)	63699	50.0	45.5
83 Dibenzo(a,h)anthracene	278	46.147	46.147	(1.148)	49662	50.0	43.9
84 Benzo(g,h,i)perylene	276	47.835	47.835	(1.190)	49851	50.0	43.8

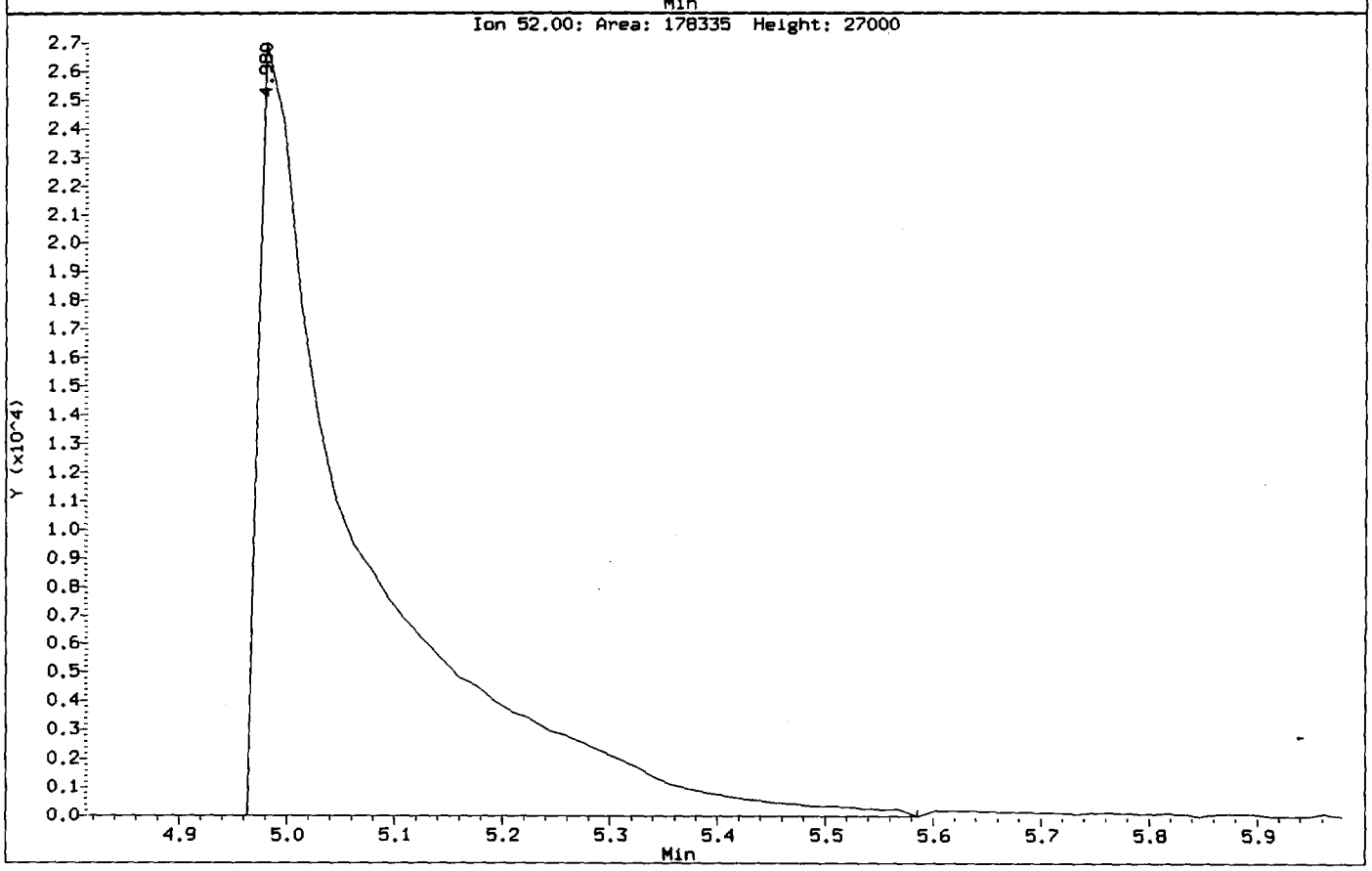
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /var/chem/7002B.i/970501421r.b/B3173.d
Injection Date: 01-MAY-97 15:26:00
Instrument: 7002B.i
Client Sample ID:

Compound: Pyridine
CAS Number: 110-86-1





Data.File: /var/chem/7002B.i/970422421r.b/B3040.d

Page 1

Date : 22-APR-97 14:15:00

Client ID:

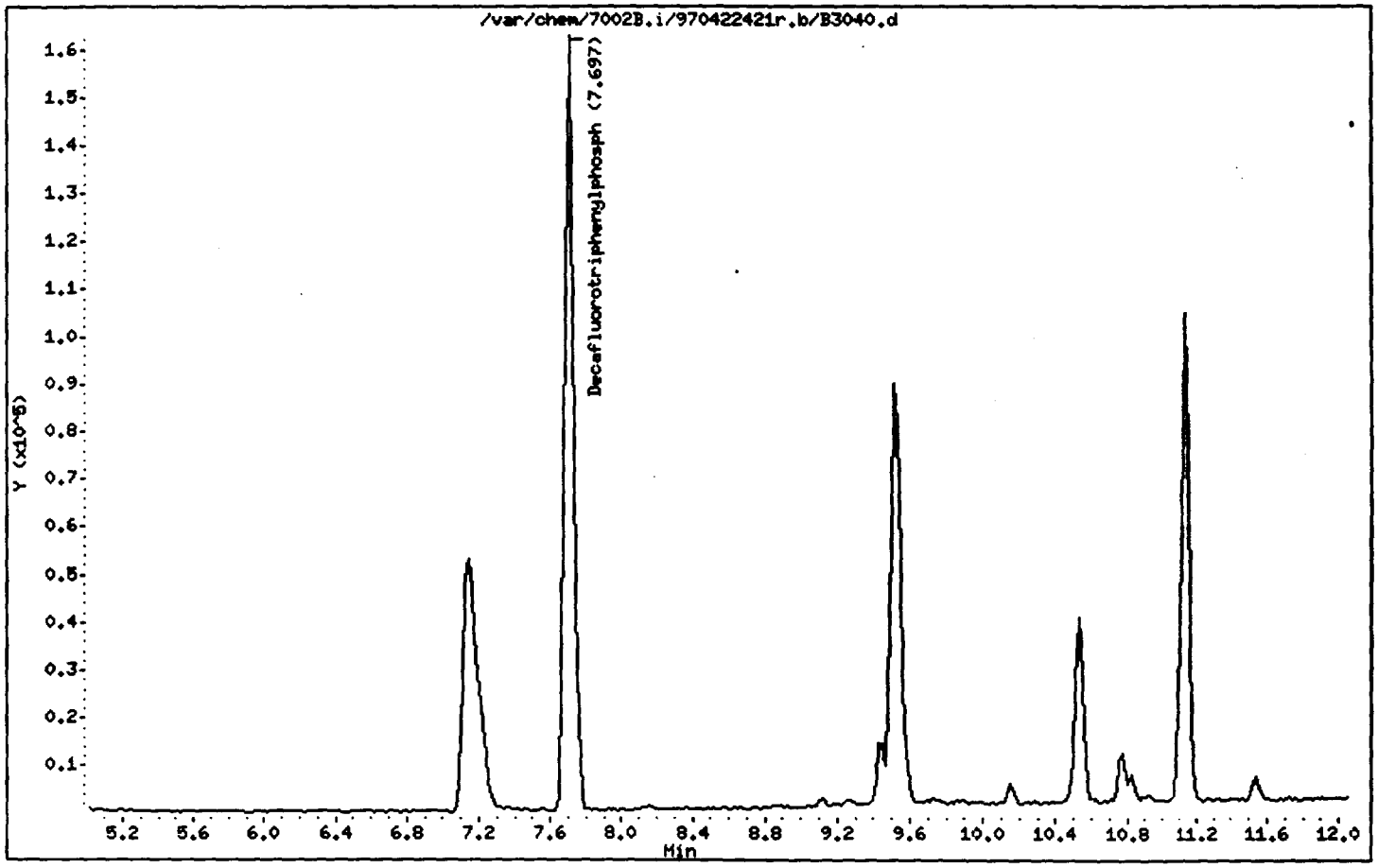
Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00



Data File: /var/chem/7002B.i/970422421r.b/B3040.d

Date: 22-APR-97 14:15:00

Client ID:

Instrument: 7002B.i

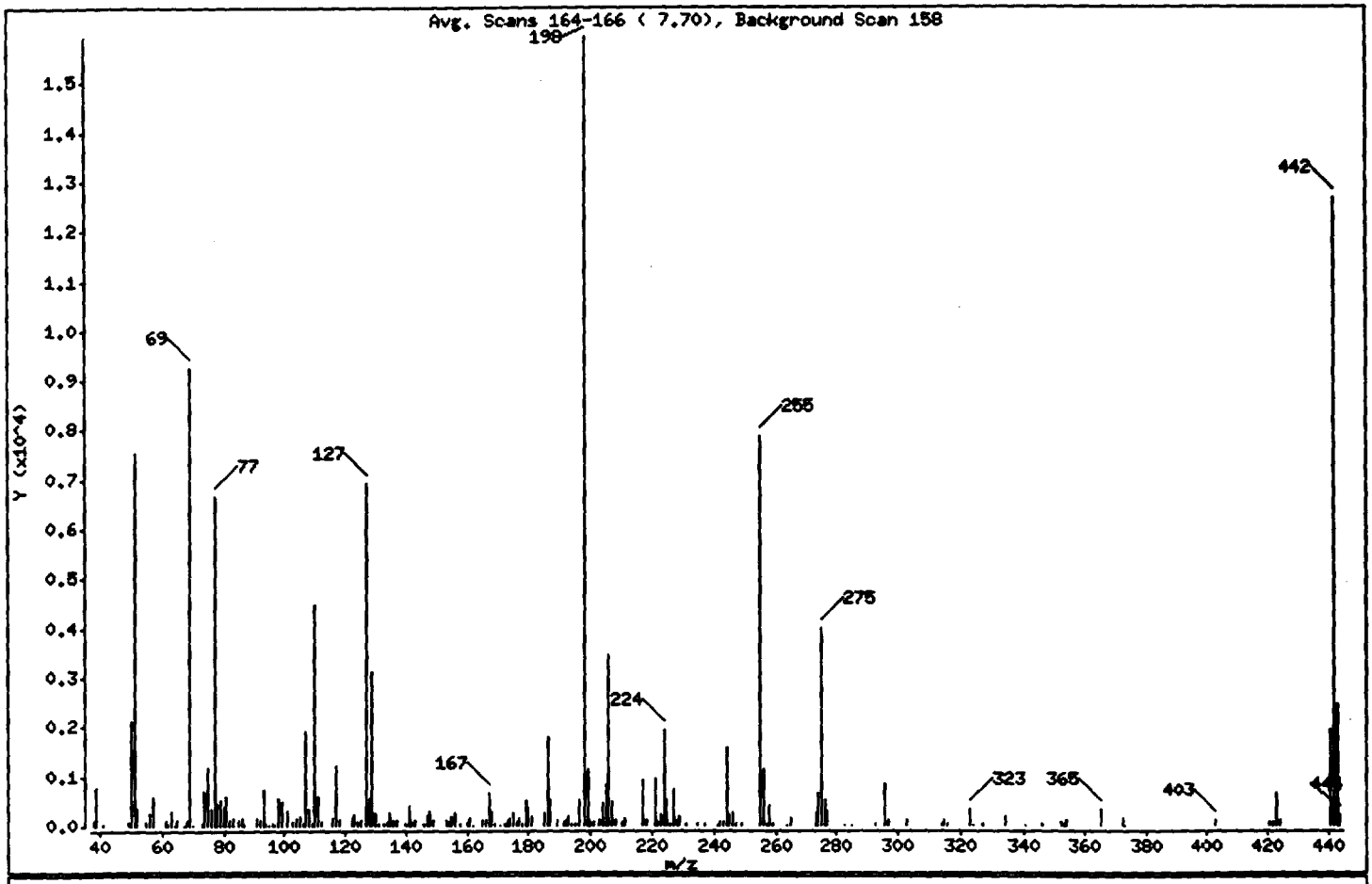
Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

1 Decaflucrotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.24
68	Less than 2.00% of mass 69	0.64 (1.10)
69	Less than 100.00% of mass 198	58.06
70	Less than 2.00% of mass 69	0.09 (0.15)
127	40.00 - 60.00% of mass 198	43.49
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.04
275	10.00 - 30.00% of mass 198	25.16
365	1.00 - 100.00% of mass 198	2.08
441	Present, but less than mass 443	12.12
442	40.00 - 100.00% of mass 198	79.56
443	17.00 - 23.00% of mass 442	15.48 (19.45)

Data File: /var/chem/7002B.i/970422421r.b/B3040.d

Date: 22-APR-97 14:15:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

Data File: B3040.d
Spectrum: Avg. Scans 164-166 (7.70), Background Scan 158
Location of Maximum: 198.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	103	108.00	312	176.00	87	247.00	21
39.00	759	109.00	24	177.00	154	249.00	31
41.00	22	110.00	4463	178.00	21	255.00	7886
49.00	65	111.00	589	179.00	524	256.00	1153
50.00	2110	112.00	65	180.00	354	257.00	37
51.00	7524	116.00	137	181.00	177	258.00	401
52.00	367	117.00	1221	185.00	254	259.00	45
55.00	66	118.00	98	186.00	1781	264.00	18
56.00	264	122.00	137	187.00	513	265.00	145
57.00	593	123.00	213	189.00	106	273.00	274
61.00	110	124.00	80	191.00	68	274.00	642
62.00	34	125.00	104	192.00	107	275.00	4007
63.00	303	127.00	6927	193.00	182	276.00	503
64.00	16	128.00	532	194.00	20	277.00	276
65.00	128	129.00	3106	195.00	28	283.00	18
67.00	15	130.00	250	196.00	507	285.00	14
68.00	102	131.00	45	198.00	15926	293.00	20
69.00	9247	133.00	24	199.00	1121	296.00	853
70.00	14	134.00	62	200.00	89	297.00	123
73.00	53	135.00	260	201.00	78	303.00	113
74.00	694	136.00	105	203.00	94	314.00	20
75.00	1170	137.00	111	204.00	457	315.00	94
76.00	347	140.00	19	205.00	828	316.00	31
77.00	6669	141.00	389	206.00	3441	323.00	314
78.00	437	142.00	76	207.00	481	324.00	16
79.00	529	143.00	103	208.00	112	327.00	32
80.00	379	146.00	50	210.00	90	334.00	196
81.00	574	147.00	204	211.00	131	341.00	16
82.00	110	148.00	310	217.00	919	346.00	39
83.00	133	149.00	92	218.00	105	352.00	91
85.00	110	153.00	117	221.00	940	353.00	19
86.00	138	154.00	67	222.00	56	354.00	95
87.00	48	155.00	190	223.00	229	365.00	331
91.00	141	156.00	261	224.00	1943	372.00	140
92.00	123	158.00	46	225.00	508	373.00	17

Data File: /var/chem/7002B.i/970422421r.b/B3040.d

Date : 22-APR-97 14:15:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

Data File: B3040.d
Spectrum: Avg. Scans 164-166 (7.70), Background Scan 158
Location of Maximum: 198.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.00	744	160.00	78	226.00	27	403.00	99
94.00	20	161.00	164	227.00	715	421.00	58
95.00	15	162.00	13	228.00	111	422.00	72
96.00	20	165.00	115	229.00	176	423.00	666
97.00	17	166.00	115	231.00	51	424.00	126
98.00	554	167.00	641	235.00	25	441.00	1930
99.00	466	168.00	289	237.00	21	442.00	12671
101.00	286	169.00	23	241.00	17	443.00	2465
103.00	80	171.00	13	242.00	74	444.00	224
104.00	135	172.00	25	243.00	70		
105.00	168	173.00	94	244.00	1573		
106.00	19	174.00	147	245.00	213		
107.00	1888	175.00	240	246.00	258		

Data File: /var/chem/7002B.i/970429422r.b/B3133.d

Page 1

Date : 29-APR-97 20:10:00

Client ID:

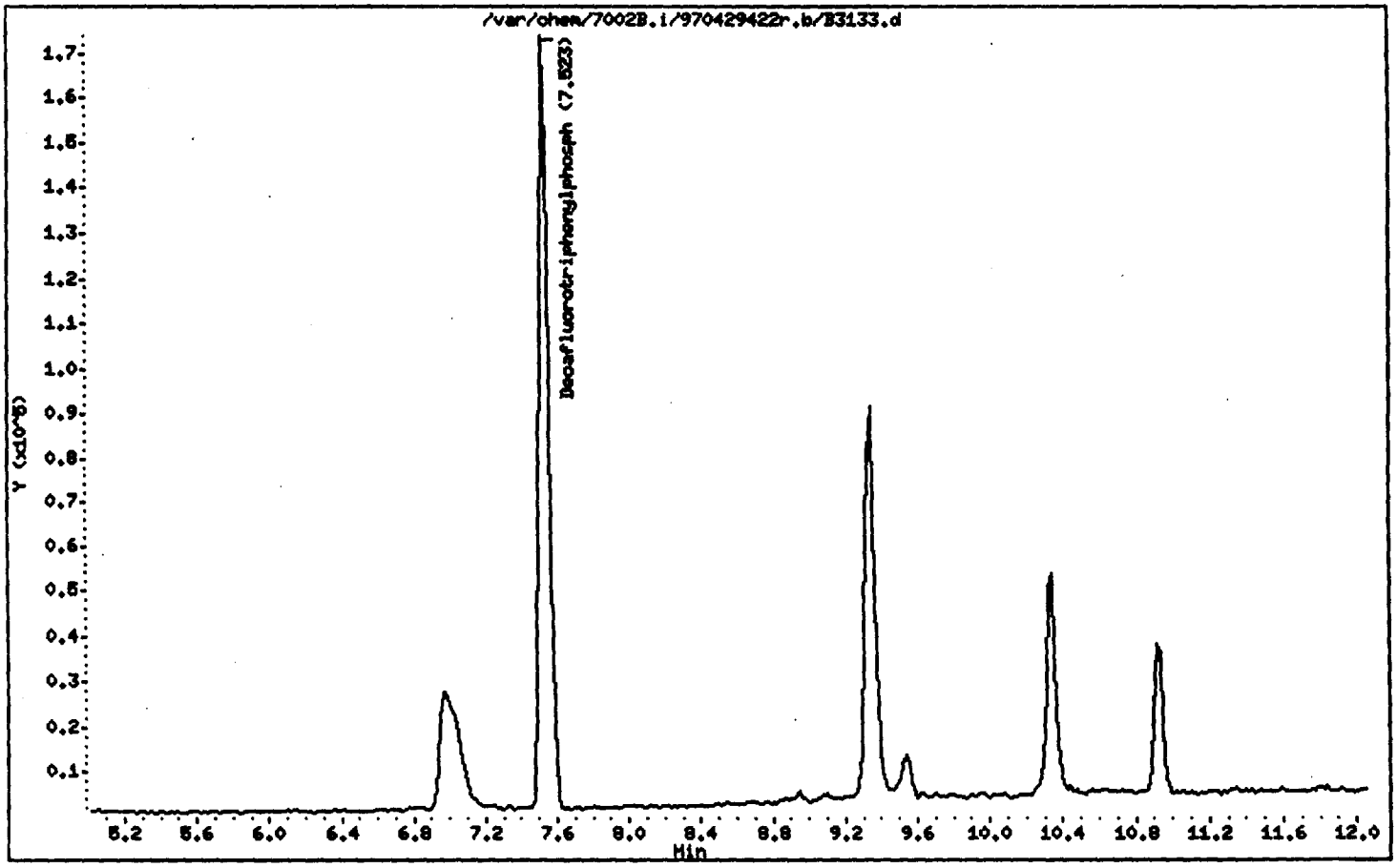
Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. CRP.

Column phase:

Column diameter: 2.00



Data File: /var/chem/7002B.i/970429422r.b/B3133.d

Date : 29-APR-97 20:10:00

Client ID:

Instrument: 7002B.i

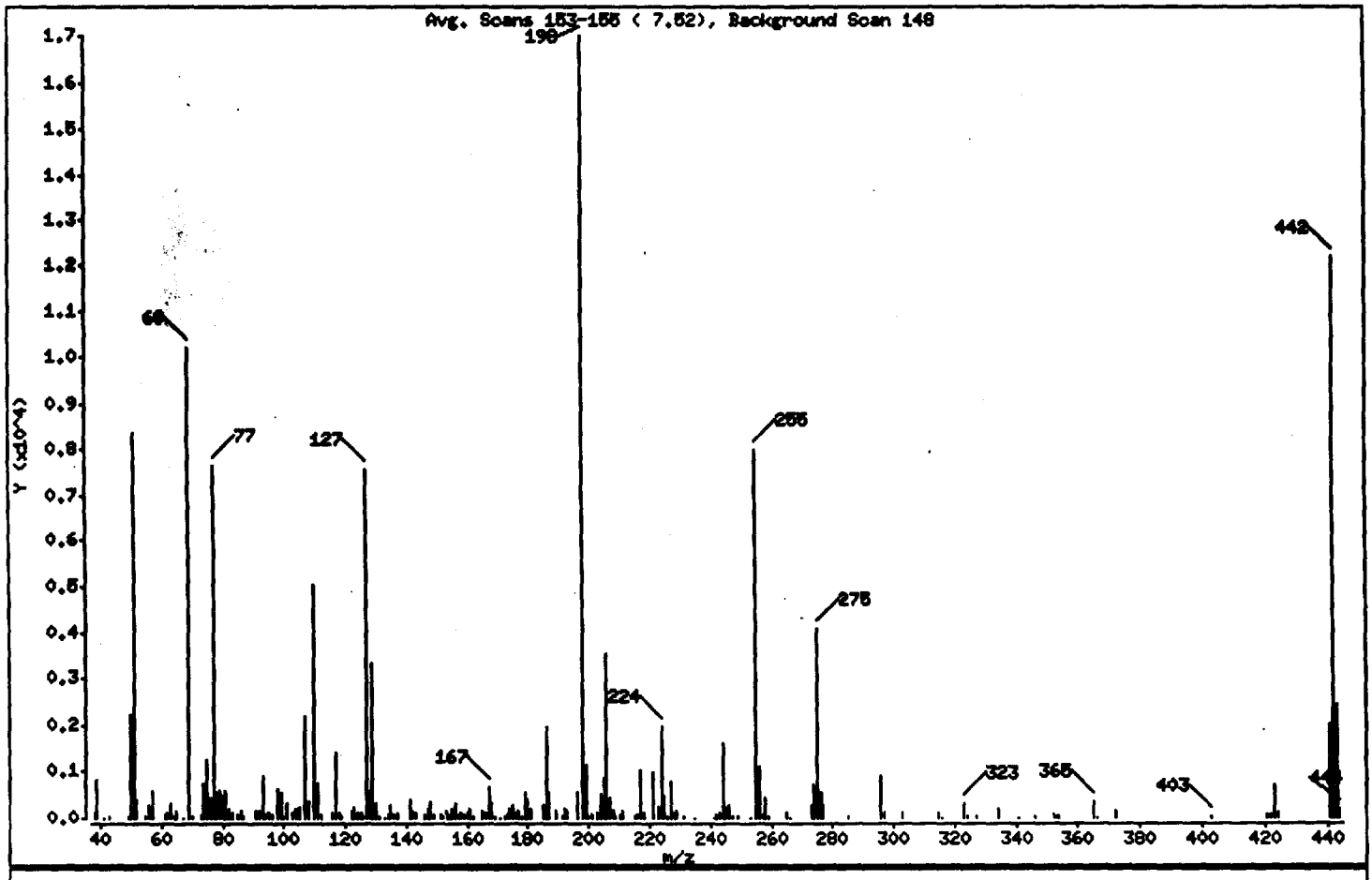
Sample Info: DFTPP 50ng

Operator: USER2 REC. GRP.

Column phase:

Column diameter: 2.00

1 Decafluorotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.12
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	59.95
70	Less than 2.00% of mass 69	0.34 (0.56)
127	40.00 - 60.00% of mass 198	44.58
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 30.00% of mass 198	23.91
365	1.00 - 100.00% of mass 198	1.96
441	Present, but less than mass 443	11.67
442	40.00 - 100.00% of mass 198	71.83
443	17.00 - 23.00% of mass 442	14.14 (19.69)

Data File: /var/chem/7002B.i/970429422r.b/B3133.d

Date : 29-APR-97 20:10:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REC. GRP.

Column phase:

Column diameter: 2.00

Data File: B3133.d

Spectrum: Avg. Scans 153-155 (7.52), Background Scan 148

Location of Maximum: 198.00

Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	130	110.00	5056	173.00	78	245.00	232
39.00	815	111.00	748	174.00	179	246.00	268
41.00	12	112.00	89	175.00	274	247.00	46
43.00	25	116.00	126	176.00	116	249.00	28
49.00	27	117.00	1405	177.00	161	253.00	16
50.00	2227	118.00	124	178.00	45	255.00	8004
51.00	8352	119.00	21	179.00	543	256.00	1087
52.00	401	122.00	157	180.00	372	257.00	81
55.00	20	123.00	247	181.00	181	258.00	448
56.00	262	124.00	126	185.00	266	259.00	30
57.00	581	125.00	135	186.00	1942	265.00	125
61.00	96	126.00	23	187.00	550	266.00	18
62.00	124	127.00	7579	189.00	142	273.00	289
63.00	320	128.00	596	191.00	57	274.00	701
64.00	22	129.00	3324	192.00	184	275.00	4065
65.00	156	130.00	322	193.00	174	276.00	534
67.00	7	131.00	33	196.00	565	277.00	263
69.00	10192	133.00	19	198.00	17000	285.00	23
70.00	57	134.00	96	199.00	1133	296.00	888
73.00	97	135.00	256	200.00	51	297.00	123
74.00	748	136.00	81	201.00	78	303.00	104
75.00	1237	137.00	103	203.00	117	315.00	101
76.00	418	141.00	394	204.00	493	316.00	18
77.00	7652	142.00	142	205.00	853	323.00	325
78.00	533	143.00	101	206.00	3536	324.00	28
79.00	596	146.00	60	207.00	438	327.00	43
80.00	459	147.00	202	208.00	142	334.00	182
81.00	582	148.00	364	209.00	35	341.00	17
82.00	179	149.00	91	210.00	96	346.00	26
83.00	122	151.00	80	211.00	169	352.00	82
85.00	77	152.00	31	215.00	21	353.00	44
86.00	160	153.00	138	216.00	86	354.00	27
87.00	29	154.00	69	217.00	1005	365.00	334
91.00	161	155.00	200	218.00	131	366.00	14
92.00	145	156.00	311	221.00	960	372.00	141

Data File: /var/chem/7002B.i/970429422r.b/B3133.d

Date : 29-APR-97 20:10:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REC. GRP.

Column phase:

Column diameter: 2.00

Data File: B3133.d

Spectrum: Avg. Scans 153-155 (7.52), Background Scan 148

Location of Maximum: 198.00

Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.00	894	157.00	89	223.00	223	403.00	34
94.00	65	158.00	105	224.00	1961	421.00	78
95.00	107	159.00	78	225.00	479	422.00	86
96.00	84	160.00	118	226.00	47	423.00	694
98.00	611	161.00	185	227.00	786	424.00	127
99.00	543	162.00	32	228.00	108	441.00	1984
100.00	53	165.00	168	229.00	159	442.00	12212
101.00	294	166.00	119	231.00	50	443.00	2404
103.00	101	167.00	649	235.00	18	444.00	208
104.00	194	168.00	295	241.00	17		
105.00	222	169.00	21	242.00	69		
107.00	2202	171.00	15	243.00	135		
108.00	334	172.00	48	244.00	1608		

Data File: /var/chem/7002B.i/970430421r.b/B3146.d

Date : 30-APR-97 10:55:00

Client ID:

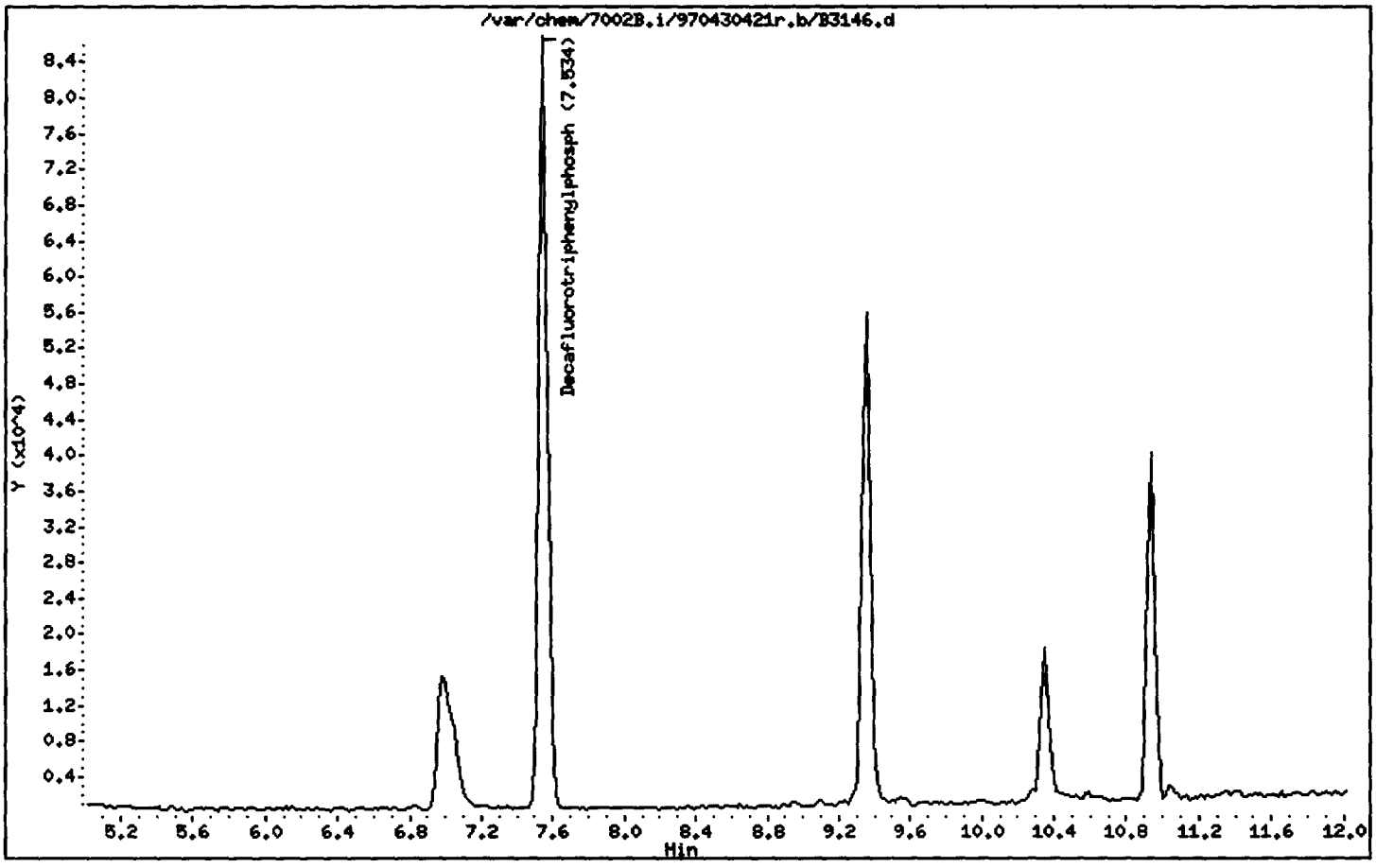
Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00



Data File: /var/chem/7002B.i/970430421r.b/B3146.d

Date : 30-APR-97 10:55:00

Client ID:

Instrument: 7002B.i

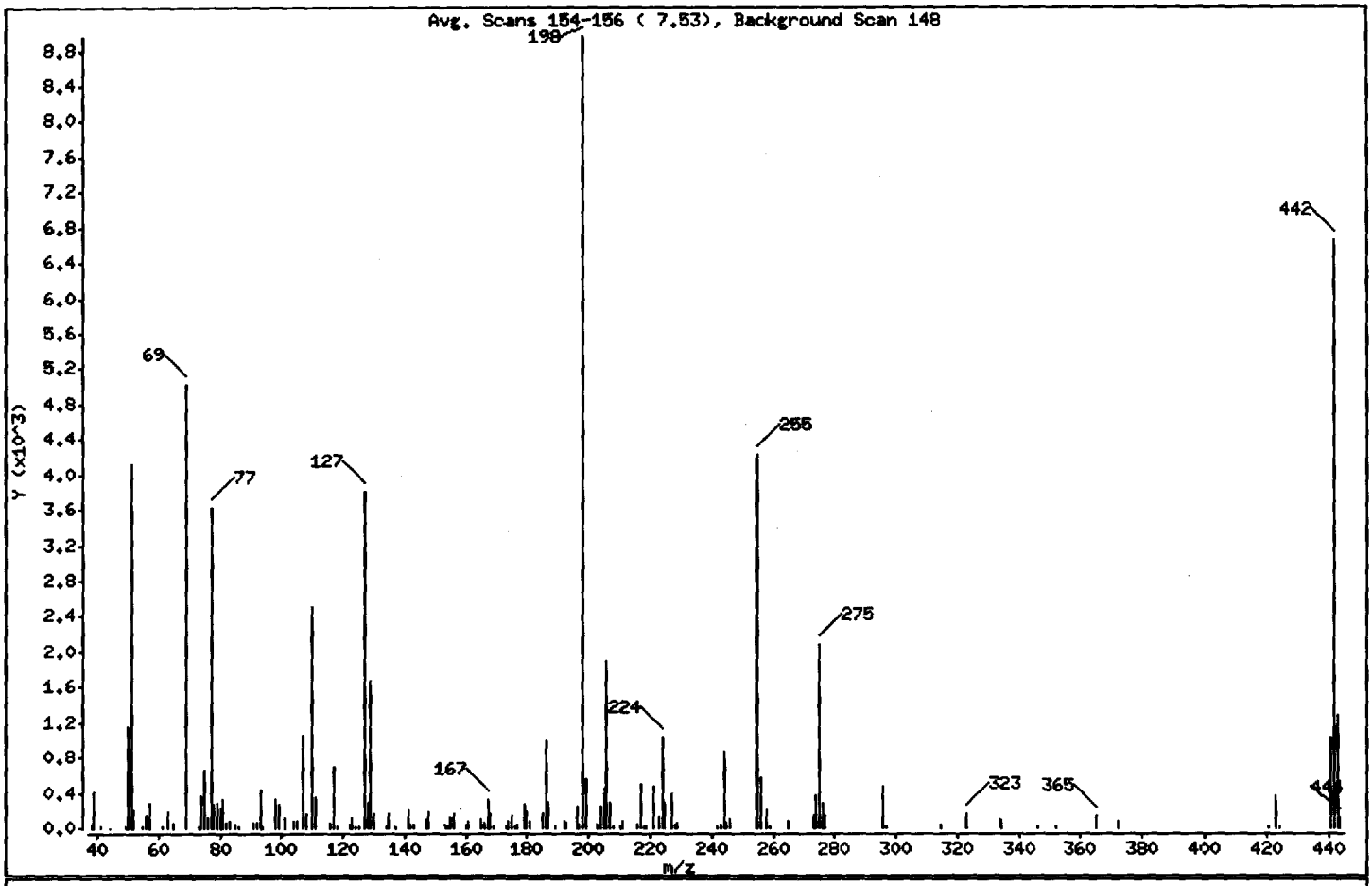
Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

1 Decaflucrotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.02
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	56.07
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	42.61
197	Less than 1.00% of mass 198	0.54
199	5.00 - 9.00% of mass 198	6.21
275	10.00 - 30.00% of mass 198	23.16
365	1.00 - 100.00% of mass 198	1.71
441	Present, but less than mass 443	11.42
442	40.00 - 100.00% of mass 198	74.24
443	17.00 - 23.00% of mass 442	14.36 (19.34)

Data File: /var/chem/7002B.i/970430421r.b/B3146.d

Date : 30-APR-97 10:55:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

Data File: B3146.d
Spectrum: Avg. Scans 154-156 (7.53), Background Scan 148
Location of Maximum: 198.00
Number of points: 139

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	45	104.00	73	169.00	18	227.00	383
39.00	413	105.00	79	173.00	20	228.00	48
41.00	26	107.00	1060	174.00	77	229.00	68
44.00	6	108.00	168	175.00	137	242.00	23
49.00	30	110.00	2521	176.00	18	243.00	46
50.00	1160	111.00	350	177.00	51	244.00	868
51.00	4122	116.00	64	179.00	277	245.00	70
52.00	215	117.00	704	180.00	192	246.00	104
55.00	30	118.00	27	181.00	91	255.00	4229
56.00	145	122.00	32	185.00	159	256.00	567
57.00	296	123.00	129	186.00	984	258.00	204
61.00	26	124.00	22	187.00	279	259.00	17
63.00	192	125.00	29	189.00	20	265.00	88
65.00	62	127.00	3817	192.00	87	273.00	140
69.00	5022	128.00	292	193.00	66	274.00	364
73.00	27	129.00	1678	196.00	251	275.00	2074
74.00	366	130.00	165	197.00	48	276.00	287
75.00	662	134.00	24	198.00	8957	277.00	142
76.00	130	135.00	157	199.00	556	296.00	468
77.00	3622	137.00	28	203.00	44	297.00	21
78.00	259	141.00	199	204.00	246	315.00	41
79.00	290	142.00	42	205.00	447	323.00	157
80.00	235	143.00	37	206.00	1899	334.00	96
81.00	329	147.00	112	207.00	288	346.00	14
82.00	57	148.00	192	208.00	23	352.00	22
83.00	73	153.00	34	210.00	14	365.00	153
85.00	47	154.00	23	211.00	90	372.00	77
86.00	21	155.00	117	216.00	33	421.00	19
91.00	59	156.00	155	217.00	497	423.00	362
92.00	54	160.00	45	218.00	24	424.00	25
93.00	426	161.00	81	219.00	19	441.00	1023
94.00	15	165.00	95	221.00	482	442.00	6650
98.00	323	166.00	56	223.00	129	443.00	1286
99.00	277	167.00	337	224.00	1037	444.00	116
101.00	114	168.00	172	225.00	278		

Data File: /var/chem/7002B.i/970430421r.b/B3146.d

Date : 30-APR-97 10:55:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

Data File: B3146.d
Spectrum: Avg. Scans 154-156 (7.53), Background Scan 148
Location of Maximum: 198.00
Number of points: 139

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Data File: /var/chem/7002B.i/970430422r.b/B3158.d

Date : 30-APR-97 23:30:00

Client ID:

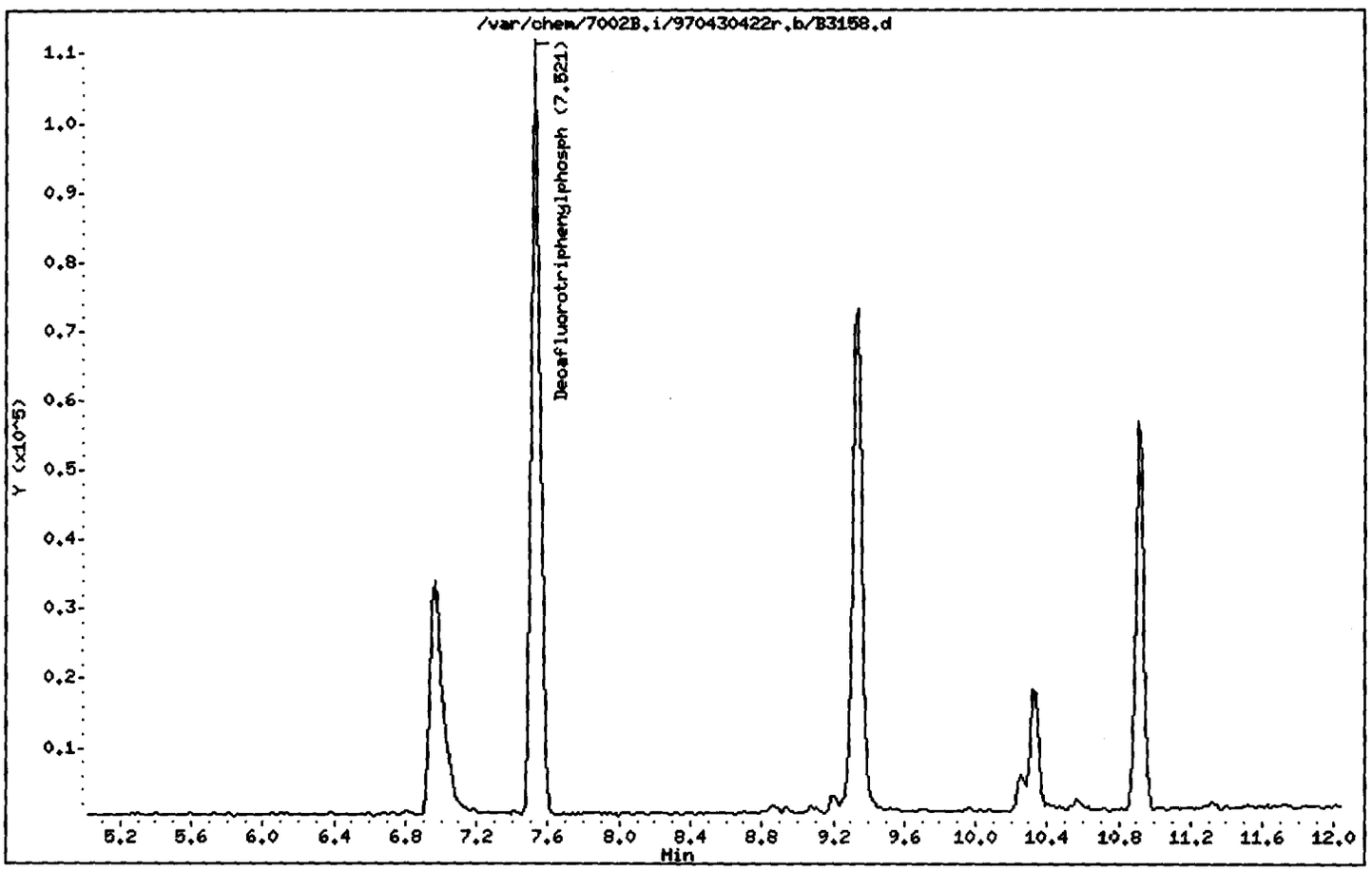
Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00



Data File: /var/chem/7002B.i/970430422r.b/B3158.d

Date : 30-APR-97 23:30:00

Client ID:

Instrument: 7002B.i

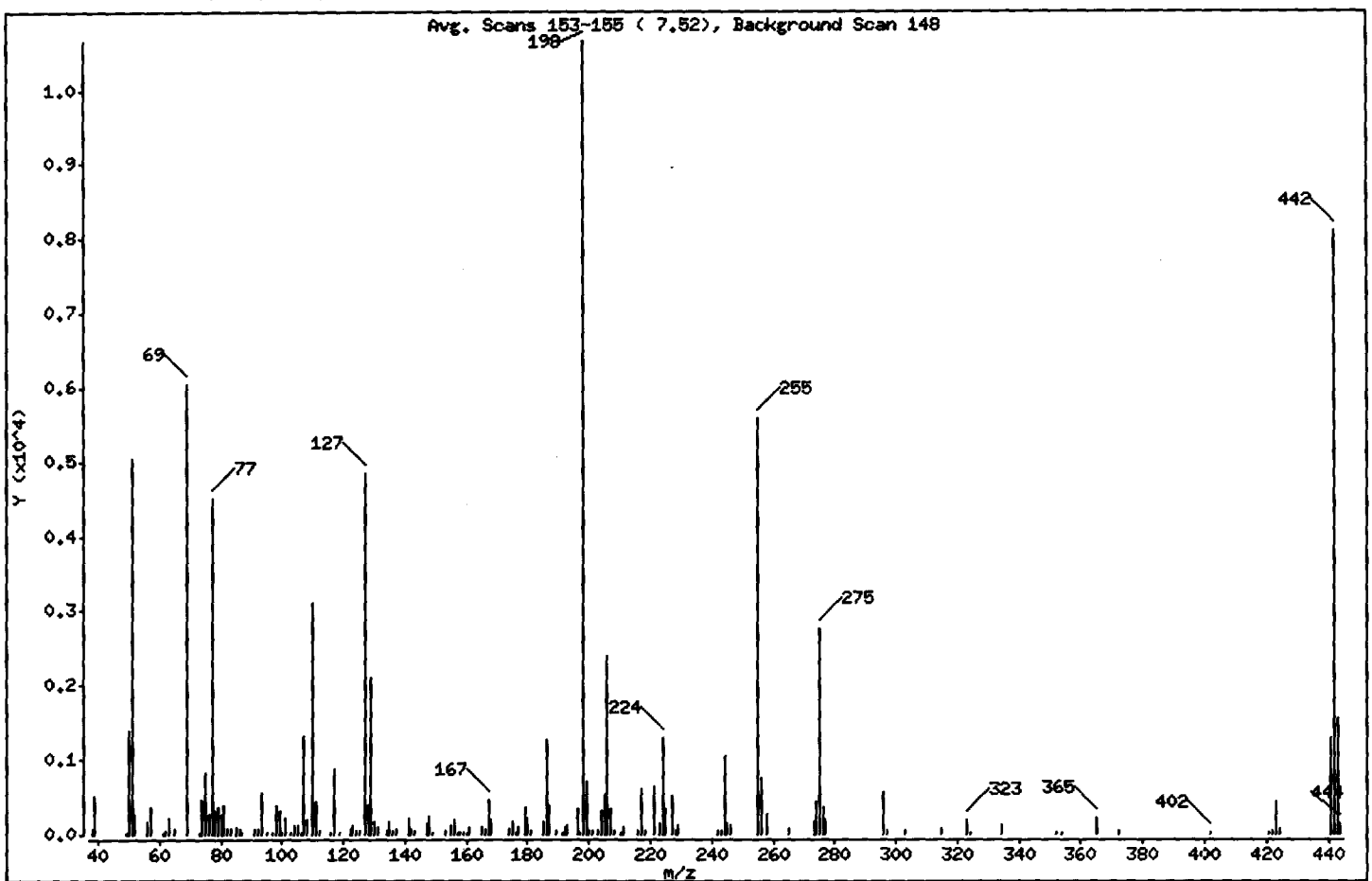
Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

1 Decaflucrotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.28
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	56.82
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	45.53
197	Less than 1.00% of mass 198	0.23
199	5.00 - 9.00% of mass 198	6.65
275	10.00 - 30.00% of mass 198	26.09
365	1.00 - 100.00% of mass 198	1.96
441	Present, but less than mass 443	12.17
442	40.00 - 100.00% of mass 198	75.98
443	17.00 - 23.00% of mass 442	14.61 (19.22)

Data File: /var/chem/7002B.i/970430422r.b/B3158.d

Date : 30-APR-97 23:30:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

Data File: B3158.d
Spectrum: Avg. Scans 153-155 (7.52), Background Scan 148
Location of Maximum: 198.00
Number of points: 151

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	67	105.00	134	166.00	66	227.00	515
39.00	521	106.00	20	167.00	456	228.00	56
49.00	20	107.00	1329	168.00	196	229.00	118
50.00	1403	108.00	195	174.00	64	242.00	51
51.00	5037	110.00	3110	175.00	178	243.00	55
52.00	269	111.00	444	176.00	31	244.00	1049
56.00	168	112.00	50	177.00	100	245.00	143
57.00	359	116.00	33	179.00	375	246.00	125
61.00	28	117.00	890	180.00	218	255.00	5589
62.00	59	119.00	14	181.00	48	256.00	747
63.00	209	122.00	78	185.00	175	258.00	279
65.00	82	123.00	130	186.00	1273	265.00	83
69.00	6053	124.00	56	187.00	384	273.00	167
73.00	21	125.00	50	189.00	54	274.00	452
74.00	469	127.00	4850	191.00	19	275.00	2779
75.00	836	128.00	384	192.00	110	276.00	373
76.00	269	129.00	2113	193.00	132	277.00	187
77.00	4518	130.00	176	196.00	347	296.00	556
78.00	316	131.00	92	197.00	25	297.00	60
79.00	376	134.00	49	198.00	10653	303.00	51
80.00	266	135.00	172	199.00	708	315.00	79
81.00	398	136.00	50	200.00	42	323.00	201
82.00	77	137.00	83	201.00	42	324.00	20
83.00	75	141.00	229	203.00	57	334.00	120
85.00	97	142.00	67	204.00	317	352.00	23
86.00	75	143.00	53	205.00	536	354.00	30
87.00	26	147.00	143	206.00	2403	365.00	209
91.00	85	148.00	248	207.00	347	372.00	41
92.00	68	149.00	24	208.00	59	402.00	13
93.00	559	153.00	60	210.00	20	421.00	21
95.00	22	155.00	128	211.00	93	422.00	47
97.00	23	156.00	192	216.00	42	423.00	435
98.00	389	157.00	33	217.00	607	424.00	67
99.00	312	158.00	25	218.00	48	441.00	1297
100.00	25	159.00	20	221.00	629	442.00	8094

Data File: /var/chem/7002B.i/970430422r.b/B3158.d

Date : 30-APR-97 23:30:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

Data File: B3158.d
Spectrum: Avg. Scans 153-155 (7.52), Background Scan 148
Location of Maximum: 198.00
Number of points: 151

m/z	Y	m/z	Y	m/z	Y	m/z	Y
101.00	217	160.00	30	223.00	148	443.00	1556
103.00	26	161.00	89	224.00	1294	444.00	154
104.00	132	165.00	97	225.00	337		

Data File: /var/chem/7002B.i/970501421r.b/B3172.d

Date : 01-MAY-97 15:06:00

Client ID:

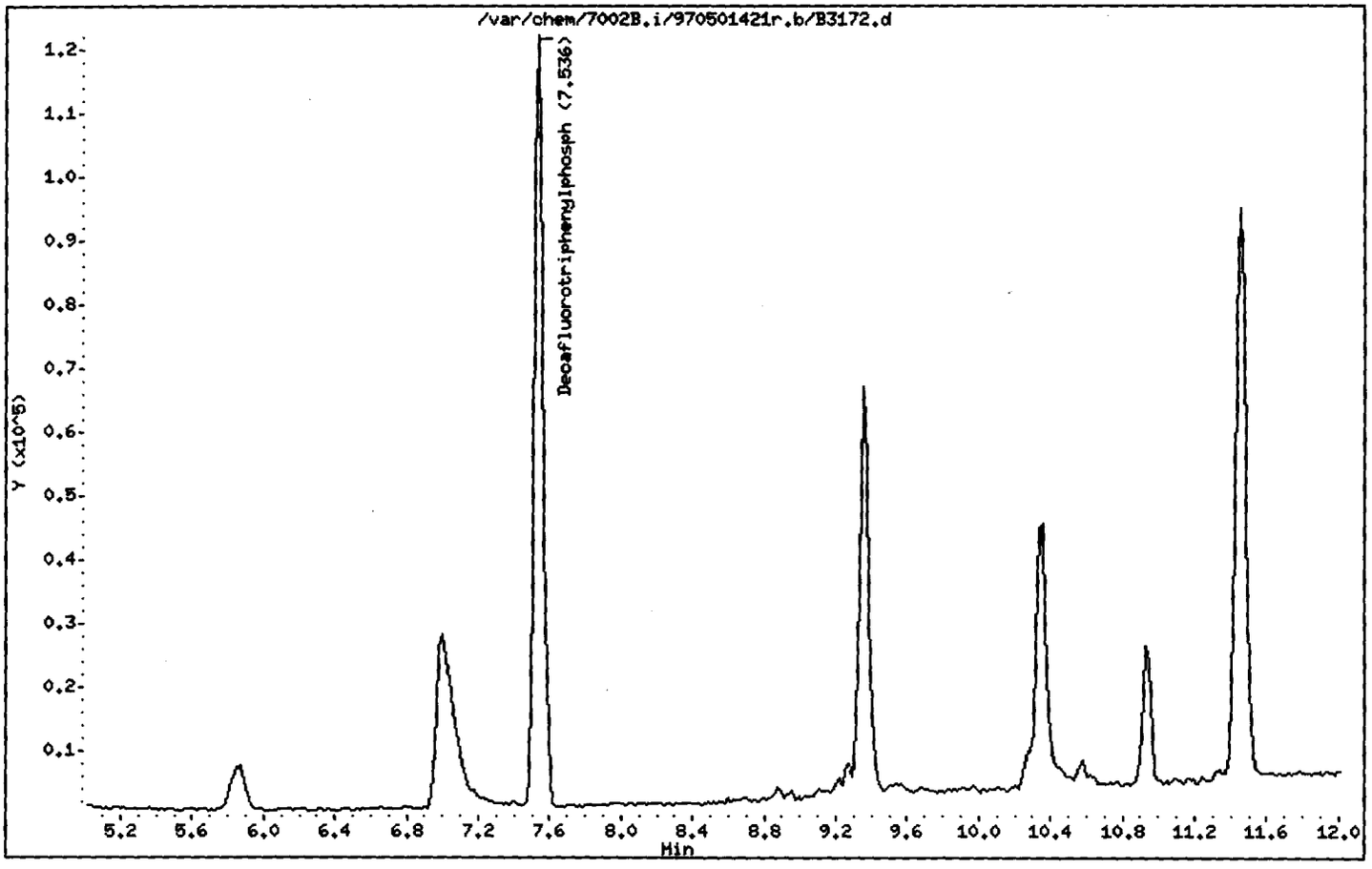
Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00



Data File: /var/chem/7002B.i/970501421r.b/B3172.d

Date : 01-MAY-97 15:06:00

Client ID:

Instrument: 7002B.i

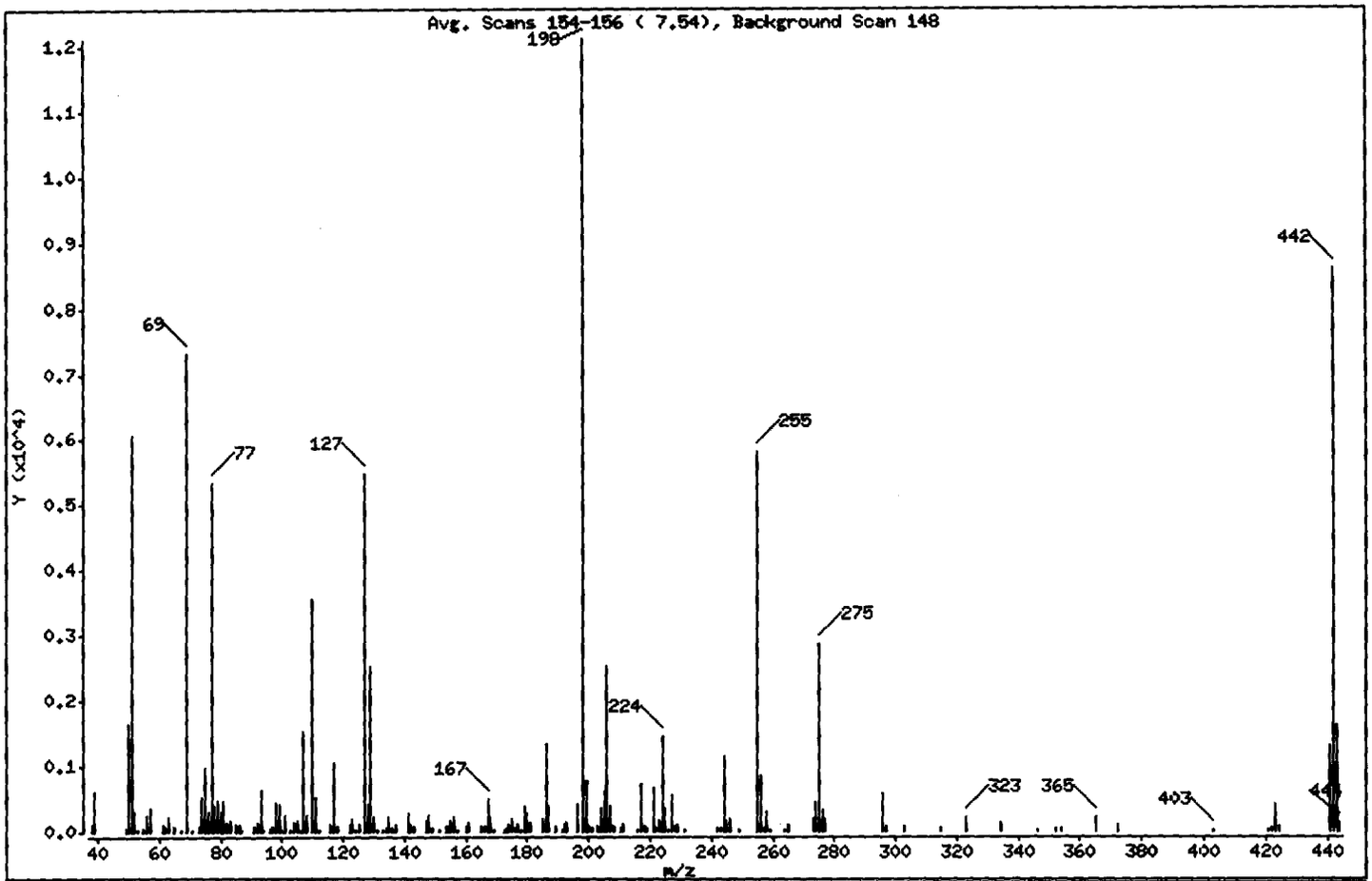
Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

1 Decaflucrotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.12
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	60.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	45.21
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.38
275	10.00 - 30.00% of mass 198	23.65
365	1.00 - 100.00% of mass 198	1.79
441	Present, but less than mass 443	10.92
442	40.00 - 100.00% of mass 198	70.99
443	17.00 - 23.00% of mass 442	13.35 (18.80)

Data File: /var/chem/7002B.i/970501421r.b/B3172.d

Date : 01-MAY-97 15:06:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

Data File: B3172.d

Spectrum: Avg. Scans 154-156 (7.54), Background Scan 148

Location of Maximum: 198.00

Number of points: 168

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	108	105.00	159	172.00	22	231.00	26
39.00	620	106.00	18	173.00	47	242.00	62
49.00	46	107.00	1520	174.00	111	243.00	53
50.00	1630	108.00	254	175.00	196	244.00	1143
51.00	6068	110.00	3572	176.00	55	245.00	156
52.00	299	111.00	519	177.00	117	246.00	183
53.00	20	112.00	17	178.00	15	249.00	16
55.00	53	116.00	113	179.00	399	255.00	5830
56.00	238	117.00	1057	180.00	273	256.00	851
57.00	358	118.00	79	181.00	131	257.00	49
61.00	104	122.00	115	185.00	188	258.00	299
62.00	76	123.00	181	186.00	1342	259.00	26
63.00	234	124.00	27	187.00	392	264.00	22
65.00	91	125.00	101	189.00	94	265.00	123
67.00	28	127.00	5474	191.00	41	273.00	201
69.00	7313	128.00	414	192.00	122	274.00	443
71.00	41	129.00	2532	193.00	131	275.00	2863
73.00	95	130.00	234	196.00	405	276.00	347
74.00	535	131.00	35	198.00	12108	277.00	199
75.00	988	133.00	15	199.00	773	296.00	581
76.00	307	134.00	54	200.00	74	297.00	81
77.00	5334	135.00	209	201.00	67	303.00	70
78.00	378	136.00	63	203.00	91	315.00	50
79.00	468	137.00	105	204.00	357	323.00	209
80.00	307	141.00	291	205.00	604	334.00	128
81.00	479	142.00	109	206.00	2536	346.00	15
82.00	135	143.00	78	207.00	385	352.00	52
83.00	156	147.00	159	208.00	92	354.00	49
85.00	108	148.00	239	210.00	44	365.00	217
86.00	112	149.00	53	211.00	108	372.00	100
87.00	22	151.00	39	216.00	27	403.00	24
91.00	90	153.00	92	217.00	716	421.00	36
92.00	127	154.00	77	218.00	79	422.00	42
93.00	654	155.00	170	219.00	49	423.00	430
94.00	18	156.00	213	221.00	677	424.00	83

Data File: /var/chem/7002B.i/970501421r.b/B3172.d

Date : 01-MAY-97 15:06:00

Client ID:

Instrument: 7002B.i

Sample Info: DFTPP 50ng

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 2.00

Data File: B3172.d
Spectrum: Avg. Scans 154-156 (7.54), Background Scan 148
Location of Maximum: 198.00
Number of points: 168

m/z	Y	m/z	Y	m/z	Y	m/z	Y
96.00	49	157.00	41	222.00	42	441.00	1322
97.00	75	160.00	95	223.00	163	442.00	8596
98.00	447	161.00	140	224.00	1438	443.00	1616
99.00	419	165.00	81	225.00	375	444.00	138
100.00	41	166.00	84	226.00	19		
101.00	245	167.00	491	227.00	552		
103.00	18	168.00	232	228.00	85		
104.00	141	169.00	15	229.00	121		

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: SBLKS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3148

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-58-7	2-Chloronaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

Data File: /var/chem/7002B.i/970430421r.b/B3148.d

Date : 30-APR-97 12:29:00

Client ID:

Instrument: 7002B.i

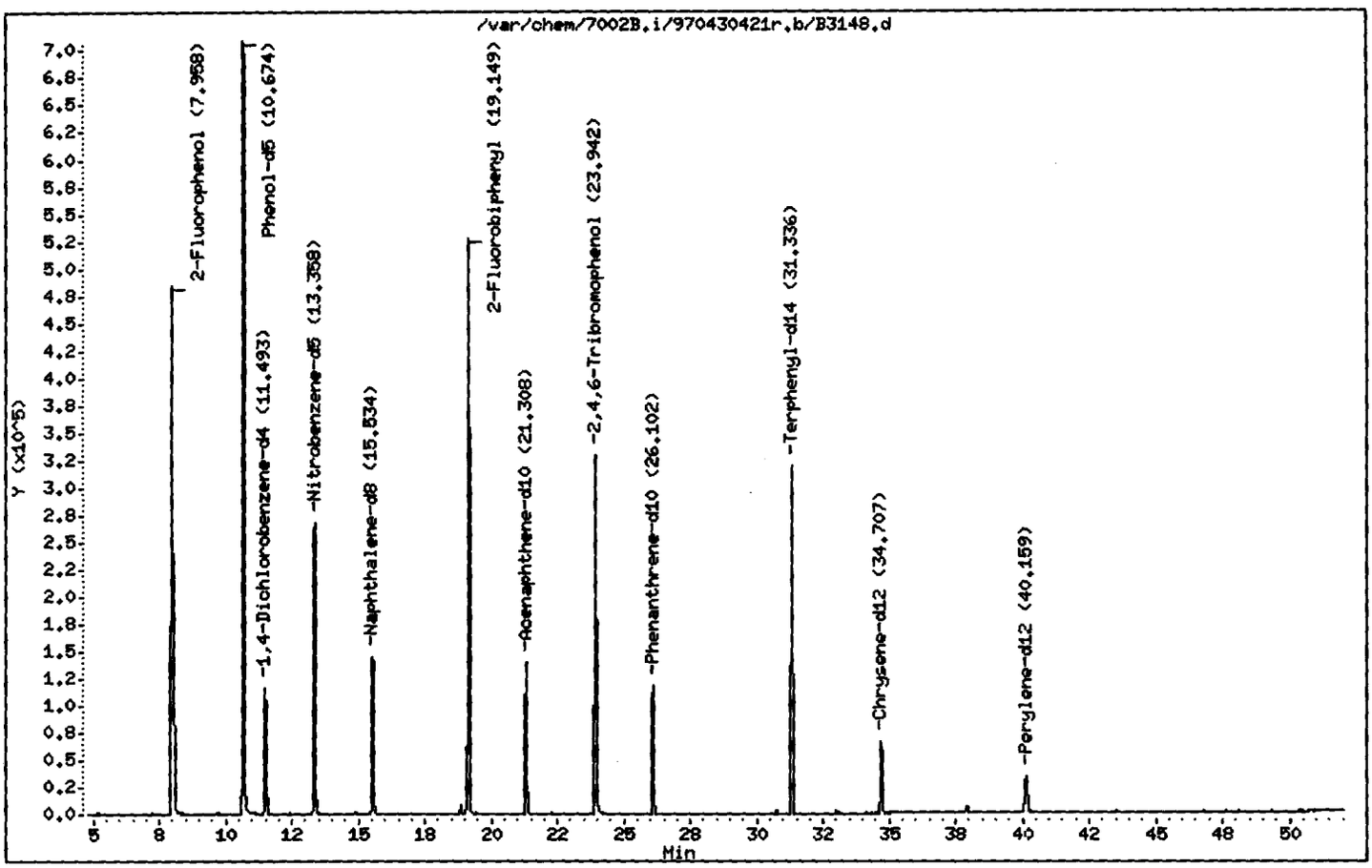
Sample Info: BLK 1164-136-2

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970430421r.b/B3148.d
Lab Smp Id:
Inj Date : 30-APR-97 12:29:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : BLK 1164-136-2
Misc Info : [970430421R]{COBX71}970428480P,SBNA0A,MEI,4300 BTL#
Comment :
Method : /var/chem/7002B.i/970430421r.b/cobx71.m
Meth Date : 30-Apr-97 13:26:02 mingalsb Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	7.958	7.924	(0.692)	595504	238	3970
$ 4 Phenol-d5	99	10.674	10.639	(0.929)	878951	278	4630(R)
* 11 1,4-Dichlorobenzene-d4	152	11.493	11.492	(1.000)	75838	40.0	
$ 21 Nitrobenzene-d5	82	13.358	13.344	(0.860)	296166	102	1700(R)
* 30 Naphthalene-d8	136	15.534	15.540	(1.000)	226227	40.0	
$ 39 2-Fluorobiphenyl	172	19.149	19.145	(0.899)	575862	127	2120(R)
* 45 Acenaphthene-d10	164	21.308	21.306	(1.000)	117156	40.0	
$ 58 2,4,6-Tribromophenol	330	23.942	23.930	(1.124)	164655	235	3910
* 62 Phenanthrene-d10	188	26.102	26.091	(1.000)	172480	40.0	
$ 70 Terphenyl-d14	244	31.320	31.313	(0.902)	390579	93.6	1560
* 74 Chrysene-d12	240	34.707	34.718	(1.000)	92787	40.0	
* 81 Perylene-d12	264	40.142	40.158	(1.000)	84707	40.0	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCSS1

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9700.860 SAS No.: SDG No.: 65106

Matrix: (soil/water) SOIL Lab Sample ID: SLCSS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B3142

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 04/28/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-58-7	2-Chloronaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	3000	E
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	2700	
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

Data File: /var/chem/7002B.i/970429422r.b/B3142.d

Date : 30-APR-97 04:37:00

Client ID:

Instrument: 7002B.i

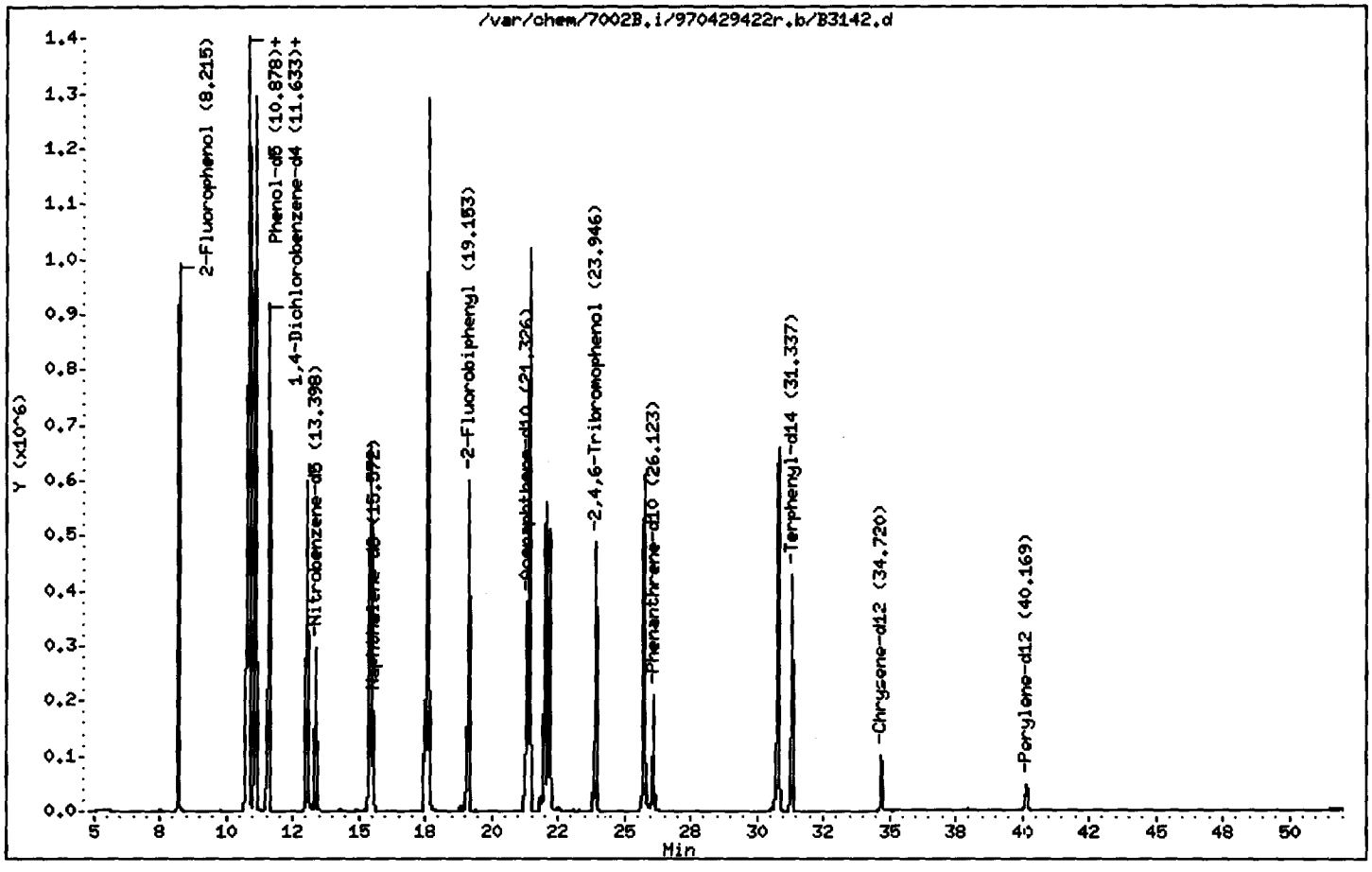
Sample Info: LCS 1164-136-1

Volume Injected (uL): 2.0

Operator: USER2 REG. GRP.

Column phase:

Column diameter: 0.25



Ecology & Environment, Inc.

Instrument 7002B (7002B.i)

Data file : /var/chem/7002B.i/970429422r.b/B3142.d
Lab Smp Id:
Inj Date : 30-APR-97 04:37:00
Operator : USER2 REG. GRP. Inst ID: 7002B.i
Smp Info : LCS 1164-136-1
Misc Info : [970429422R]{COBX71}970428480P,SBNA0A,DCE,4320
Comment :
Method : /var/chem/7002B.i/970429422r.b/cobx71.m
Meth Date : 01-May-97 23:55:37 pwang Quant Type: ISTD
Cal Date : 22-APR-97 19:53:00 Cal File: B3046.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.20
Procesing Host: chemsrv

Concentration Formula: Uf * Vt/(Vi * Ws)

Name	Value	Description
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	8.215	7.938	(0.710)	723100	208	3460
$ 4 Phenol-d5	99	10.829	10.651	(0.936)	1085547	246	4110(R)
6 Phenol	94	10.878	10.700	(0.940)	1558655	313	5210(A)
9 2-Chlorophenol	128	11.108	10.979	(0.960)	1328179	349	5820(A)
* 11 1,4-Dichlorobenzene-d4	152	11.567	11.487	(1.000)	105566	40.0	
12 1,4-Dichlorobenzene	146	11.633	11.537	(1.006)	736554	171	2850(A)
19 n-Nitroso-di-n-propylamine	70	13.054	13.011	(1.129)	633974	224	3730(A)
$ 21 Nitrobenzene-d5	82	13.398	13.355	(0.861)	404166	83.8	1400
29 1,2,4-Trichlorobenzene	180	15.441	15.435	(0.993)	684948	182	3040(A)
* 30 Naphthalene-d8	136	15.556	15.550	(1.000)	375962	40.0	
34 4-Chloro-3-methylphenol	107	17.615	17.579	(1.132)	1120027	312	5210(A)
$ 39 2-Fluorobiphenyl	172	19.153	19.152	(0.898)	818226	96.4	1610
* 45 Acenaphthene-d10	164	21.326	21.328	(1.000)	219525	40.0	
47 Acenaphthene	153	21.458	21.444	(1.006)	1229921	180	3010(A)
50 4-Nitrophenol	109	22.047	22.001	(1.034)	281951	356	5940(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
51 2,4-Dinitrotoluene	165	22.212	22.181	(1.042)	401337	155	2580
$ 58 2,4,6-Tribromophenol	330	23.946	23.951	(1.123)	236039	180	2990
61 Pentachlorophenol	266	25.761	25.767	(0.987)	339747	272	4540(A)
* 62 Phenanthrene-d10	188	26.106	26.111	(1.000)	307907	40.0	
69 Pyrene	202	30.829	30.789	(0.888)	1327601	160	2670
$ 70 Terphenyl-d14	244	31.337	31.330	(0.903)	529723	80.3	1340
* 74 Chrysene-d12	240	34.720	34.735	(1.000)	146709	40.0	
* 81 Perylene-d12	264	40.169	40.196	(1.000)	122080	40.0	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

6

Project No._____ ecology and environment, inc.

Book No. 1164 TITLE S B/N SOP 46

om Page No.__

Test Performed: B/N soil

Method Number: 8270b/3550a

Date: 4/28/97

Work Performed By: Tim Lear

Batch 970428480P

Bal. Cal. 807-157-1

Job No.	ID No.		Amount	Solvent	Final Volume	Date Conc.	Sign.	Spk/Surr. Witness
700.871	65161.02	4340	30.0g	1:1 MeCl2	1.0mL	4/29/97	[signature]	S Cicin 4-28-97
700.860	65106.01	4300		Acetone		4/30/97		
	65107.01	4300		3x100 ml				
	65108.01	4300		MeCl2 Lot#				
	65109.01	4300		K52271				
	65110.01	4300		Acetone Lot#				
	65111.01	4300		K42272				
	65112.01	4300						
	65113.01	4300			10.0mL			
	65110.01	MS 4320			1.0m			
	65110.01	MSD 4330						
LCS	1164-136-1	4320			1.0mL	4/29/97	[signature]	
BLK	1164-136-2	4300						

0.5ml of BNA Surr. (1171-27-1) was added to each.

1.0ml of BNA spike (1171-27-2) was added to the MS, MSD and LCS.

Could not conc to 1.0mL (Green) thicken up at 8

4/30/97

To Page No._____

Witnessed & Understood by me,	Date	Invented by	Date	
[signature]	5/1/97	Recorded by NA		190

TITLE ecology and environment, inc.

Project No.

Book No. 1162

From Page No.

Test Performed: 8270B

Date: 4/22/97

Work Performed By: ME [illegible]

970422421R

COB371

COBX71

Job No.	ID No.	Analyst	Data	Seq	Method	Vol.	Comments
DFTPP	Sony Mix	ME	B3040	DFB	DFBASP	1 µl	1415 1171-20-7
	sstd050		B3041		BSA0021 COBX70	2 µl	1171-23-2
	sstd020		B3042		COB371	2 µl	1171-23-1
	sstd080		B3043			2 µl	1171-23-3
	sstd100		B3044			2 µl	1171-23-4
	sstd120		B3045			2 µl	1171-23-5
	sstd160		B3046			2 µl	1171-23-6

To Page No.

Witnessed & Understood by me: J Bitter

Date: 5/1/97

Invented by

Recorded by

Date

TITLE ecology and environment, inc. Project No. 1162

Test Pe 8270B
Date 4/29/97
Work Performed By: [illegible]

BATCH # 970429422R

Job No. / ID No.	Analyst	Data	Seq	Method	Vol.	Comments
DFTPP 50ngs	DIE	B3133	DFB	DFBASP	1µl	1171-29-3 (2010)
X SSTD050		B3134	BNAB	COBX71	2µl	1171-29-1
SSTD050		B3135	BNAB			1171-29-1
BLK 1164-137-2		B3136	JBB			300µl 4300 + 3µl IS
LCS 1164-137-1		B3137				300µl 4320 + 3µl IS
~~9700.862 65132.02~~		~~B3138~~	Not Run MEZ 4/30/97			~~300µl 4340 + 3µl IS~~ NEVER Ran MEZ
9700.870 65159.02 (4X)		B3138 ~~B3139~~				100µl 4340 + 300µl MeCl2 + 4µl IS
9700.871 65161.02		B3139 ~~B3140~~				300µl 4340 + 3µl IS
65162.02	DIE	B3140 ~~B3141~~	JBB	COBX71	2µl	300µl 4340 + 3µl IS
BLK 1164-136-2		B3141 ~~B3142~~				300µl 4300 + 3µl IS
LCS 1164-136-1	DIE	B3142 ~~B3143~~	JBB	COBX71	2µl	300µl 4320 + 3µl IS
LCS 1164-136-1		B3143			2µl	

Samples in sampler rack were out of order: Corrections here are due to sample 65132. not running. Henders now Correct. ME [illegible] 4/30/97

To Page No.

Witnessed & Understood by me	Date	Invented by	Date	
J. Bitten	5/1/97	Recorded by		192

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Project No. 1162
Book No. 1162 TITLE ecology and environment, inc.

From Page No.
Test Performed: 8270B
Date Received: 4/30/97
Work Performed By: [illegible]

[970430421R]

Job No.	ID No.	INIT	DATA	SEQ	METH	VOL	COMMENTS
DFTPP	sony Mix	MEZ	B3144	DFB	DFBCLP/ DFBASP	1pl	8:53 1171-29-3.
SSTdoso			B3145	BNAB	BBACCL/ CCBX71	2pl	1171-29-1 (Low PCP) cut col 4"-
DFTPP	sony Mix		B3146	DFB	DFBCLP/ DFBASP	1pl	10:55 1171-29-3
SSTdoso			B3147	BNAB	BBACCL/ CCBX71	2pl	1171-29-1
BLK 1164-136-2			B3148	JBB		2pl	
9700.862	65132.024340 RE		B3149			2pl	
9700.893	65278.024300		B3150			2pl	
	65279.024300		B3151			2pl	
	65300.024300		B3152			2pl	
9700.921	65550.024300		B3153				
	.4320		B3154				
	.433		B3155				
9700.860	65166.074300		B3156				
	DIE BLK 1164-136-2 4/30/97 65~~167.07 4300~~		B3157				
BLK 1164-136-2			B3158			2pl	
~~QC 1168-128-3~~			B3159			2pl	

RCE 4/30/97 BNH QC Chk

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Witnessed & Understood by me. [signature] Date 5/1/97 Invented by Date Recorded by

TITLE ...ology ... Inc.

Project No. 1162
Book No.

From Page No.
Test Performed: 8270B
Date ... 4/3/97
Work Performed By: [illegible]

BATCH # 970430422R

Job No.	ID No.	INIT	DATA	SEQ	METH	VOL	COMMENTS
DFTPP 50 ngr		DCE	B3158	DFB	DFBASP	1µl	1171-29-3 23:30
SSTD050			B3159	BNAB	CoBX71	2µl	1171-29-1
9700.739 BLK 1164-130-2			B3160	JBB			300µl 4305 + 3µl IS
9700.764 BLK 1164-100-2			B3161				4300
9700.739 6442103 RE			B3162				4305
64422.03 RE			B3163				4305
9700.860 65107.01			B3164				4300
65108.01			B3165				
65109.01			B3166				
65110.01			B3167				~~4300~~ 4300
65110.01 MS			B3168				4320
65110.01 MSD			B3169				4330
65111.01		DCE	B3170	JBB	CoBX71	2µl	300µl 4300 + 3µl IS
BNA QC CHK050			B3171			2µl	1171-28-3

To Page No.

Witnessed & Understood by me.	Date	Invented by	Date
J. Bitha	5/1/97	Recorded by	

Project No. 1162 Book No. 1162 TITLE ecology and environment, inc.

From Page No.

Test Performed:
Date Tested: 5/21/97
Work Performed By: [illegible]

[970501421R]

Job No.	ID No.	INIT	DATA	SEQ	METH	VOL	COMMENTS
DFTPP	50ng Mix		B3172	DFB	DFBCLP/ DFBASP	1µl	15:06 1171-29-3
SS+dosO			B3173	BNAB		2µl	1171-30-3
9700.860	65106.01 RA	DCE	B3174	JBB	COBX71	2µl	300µl 4300+ 3µl IS
	65109.01 RA		B3175				
	65110.01 RA		B3176				
	65111.01 RA		B3177				
	65112.01 RA		B3178				300µl 4300+ 3µl IS
	65113.01 (5X)		B3179				100µl 4300+400µl MeCl2+ 5µl IS
	65113.01 (3X)	DCE	B3180	JBB	COBX71	2µl	100µl 4300+200µl MeCl2 + 3µl IS

To Page No. 195

Witnessed and Approved by me: [signature] Date: 5/5/97 Invented by: Date:

Recorded by:

ecology and environment, inc.
International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

GC
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   1. CHROMATOGRAM
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* = ALL CALIBRATION INFORMATION IS ORGANIZED PER INSTRUMENT, CHRONOLOGICALLY

recycled paper

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9700.860

Compound	E & E Laboratory No. 97-	Percent Recovery	
Tetra-chloro-m-xylene	65106	82.6	
	65107	8.7	*
	65108	60.0	
	65109	88.1	
	65110	79.8	
	65111	DL	
	65112	140	
	65112MS	155	*
	65112MSD	INF	
	65113	DL	
	Method Blank 1164-132-2	102	
	Method Blank 1164-154-3	56.9	
	LCS 1164-154-1	53.8	
	LCS 1164-154-2	56.6	
Decachlorobiphenyl	65106	342	*
	65107	124	
	65108	84.6	
	65109	121	
	65110	98.9	
	65111	DL	
	65112	181	*
	65112MS	38.5	*
	65112MSD	21.9	*
	65113	DL	
	Method Blank 1164-132-2	113	
	Method Blank 1164-154-3	62.0	
	LCS 1164-154-1	63.4	
	LCS 1164-154-2	64.7	

EXCEPT FOR THE VALUES FLAGGED "*",
THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS (60%-150%).

INF = INTERFERENCE
DL = DILUTED OUT
LCS = LABORATORY CONTROL SAMPLE
MS = MATRIX SPIKE

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOLID MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
(Sample # 65112)

9700.860

(mg/kg as received)

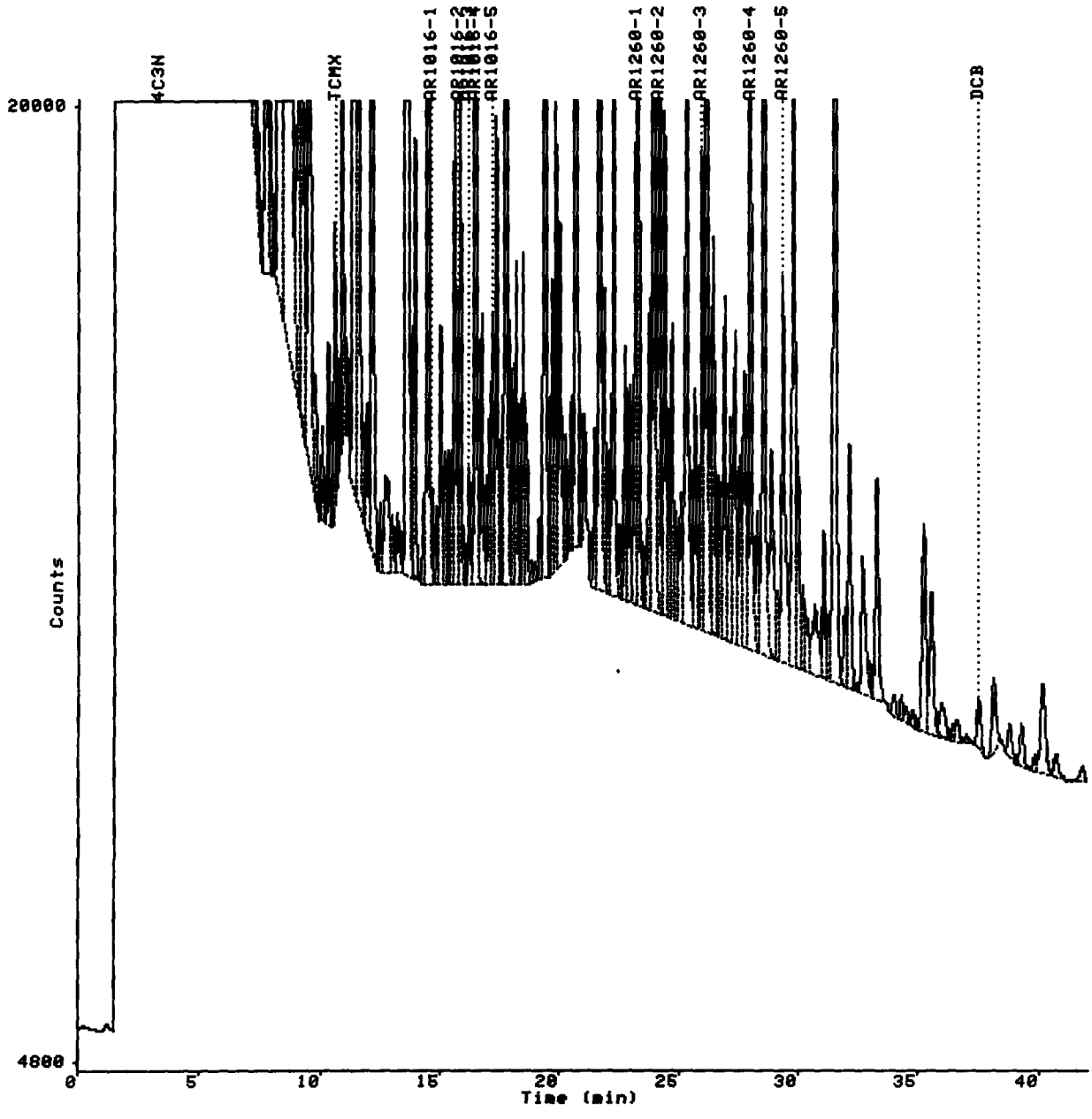
Parameter	Original Result	Amount Added MS	Amount Added MSD	Amount Determined MS	Amount Determined MSD	Percent Recovery MS	Percent Recovery MSD	RPD
PCB-1016	ND	0.333	0.333	INF	INF	--	--	--
PCB-1260	ND	0.333	0.333	INF	INF	--	--	--

THESE RECOVERIES AND RPDs ARE WITHIN E & E, INC. QC TARGETS (75-125%/35%RPD).

ND = NOT DETECTED
INF = MATRIX INTERFERENCE

Run Number..... 15
Sample Name..... 65112 3250 10X
Run Date..... 8-MAY-1997 04:41:39
Raw File..... 10_0507_016
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



65112 3250 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 3250 10X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_016 Analysis Date: 8-MAY-1997 04:41:39

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	2.95		391567	BV	1
	3.16		438036	VV	2
4C3N	3.42	2.82	2034855	VV	3
	3.84		337529	VV	4
	4.05		381425	VB	5
	4.41		6881	BV	6
	4.50		1593393	VB	7
	4.99		273514	BB	8
	5.27		202635	BV	9
	5.37		1190859	VB	10
	5.83		11389	BB	11
	6.05		138819	BV	12
	6.28		5409545	VE	13
	6.76		61334	EB	14
	7.08		493271	BE	15
	7.36		15932	EB	16
	7.77		161462	BE	17
	7.92		15390	EV	18
	8.04		4863	EB	19
	8.24		398734	BV	20
	8.57		1339994	VE	21
	9.10		41514	EV	22
	9.27		70188	EV	23
	9.50		145410	VE	24
	9.80		16267	EB	25
	10.08		9156	BV	26
	10.20		1218	VV	27
	10.33		15651	VB	28
TCMX	10.60	0.0207	25321	BB	29
	10.76		7346	BB	30
	10.92		47756	BB	31
	11.17		5143	BB	32
	11.35		316952	BV	33
	11.60		134751	VE	34
	11.80		8410	EV	35
	11.97		14712	EV	36
	12.16		133034	VB	37
	12.49		5240	BV	38
	12.78		23359	VV	39
	13.00		6343	VV	40
	13.24		8667	VB	41
	13.61		1937479	BE	42
	13.84		21908	EV	43
	13.96		35162	EB	44
	14.14		523	BB	45
	14.33		8832	BV	46
	14.48		116702	VE	47
AR1016-1	14.67	0.255	6593	EV	48
	14.89		7131	VV	49
	15.03		26686	VV	50

200

Sample ID: 65112 3250 10X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_016 Analysis Date: 8-MAY-1997 04:41:39

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	15.20		12003	VV	51
	15.30		8704	VV	52
	15.38		12155	VV	53
	15.49		9942	VV	54
	15.62		54341	VV	55
AR1016-2	15.85	0.719	46046	VE	56
	15.98		4001	EV	57
AR1016-3	16.22	0.358	10872	VV	58
AR1016-4	16.49	54.5	1045953	VE	59
	16.75		28250	EV	60
	17.05		16196	VV	61
AR1016-5	17.19	2.35	27394	VV	62
	17.36		45367	VV	63
	17.51		10919	VV	64
	17.62		12057	VV	65
	17.76		286299	VE	66
	17.92		21668	EV	67
	18.06		14278	EV	68
	18.18		30992	VE	69
	18.36		4756	EV	70
	18.47		28873	VV	71
	18.60		17546	VB	72
	18.85		2093	BV	73
	18.99		1730	VB	74
	19.17		6649	BV	75
	19.40		128233	VB	76
	19.70		33739	BV	77
	19.84		40298	VV	78
	20.00		41879	VV	79
	20.26		9431	VB	80
	20.51		16619	BV	81
	20.67		90439	VB	82
	21.02		4911	BB	83
	21.48		15684	BV	84
	21.68		146820	VE	85
	21.87		25160	EV	86
	22.06		13728	EV	87
	22.27		68813	VE	88
	22.51		6066	EV	89
	22.75		26133	VV	90
	22.93		19398	VV	91
AR1260-1	23.23	2.03	67082	VV	92
	23.30		54505	VE	93
	23.47		4802	EV	94
	23.59		2602	VV	95
	23.78		29045	VV	96
	23.93		338593	VE	97
AR1260-2	24.17	1.30	73753	EV	98
	24.40		56910	VV	99
	24.55		18263	VV	100
	24.70		26829	VV	101

Sample ID: 65112 3250 10X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_016 Analysis Date: 8-MAY-1997 04:41:39

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	24.82		14008	VV	102
	25.09		18236	VV	103
	25.31		107043	VV	104
	25.66		28630	VV	105
	25.84		6866	VV	106
AR1260-3	25.95	0.969	45750	VV	107
	26.15		260017	VE	108
	26.32		11226	EV	109
	26.43		45543	EV	110
	26.62		15324	VV	111
	26.70		13521	VV	112
	26.91		40025	VV	113
	27.14		26165	VV	114
	27.34		40012	VV	115
	27.55		21269	VV	116
	27.73		45693	VV	117
AR1260-4	27.99	0.696	94222	VE	118
	28.28		19347	EV	119
	28.55		148179	VE	120
	28.88		36624	EV	121
	29.12		9195	EV	122
AR1260-5	29.36	1.01	59649	VV	123
	29.82		102371	VV	124
	30.00		27036	VV	125
	30.20		11689	VV	126
	30.36		7945	VV	127
	30.71		19178	VV	128
	31.08		17686	VV	129
	31.28		6891	VV	130
	31.53		150466	VE	131
	31.97		10577	EV	132
	32.15		32272	VB	133
	32.51		640	BV	134
	32.71		25096	VE	135
	32.99		2926	EV	136
	33.30		32480	VB	137
	34.02		3107	BB	138
	34.31		2970	BV	139
	34.52		2131	VB	140
	34.81		2110	BB	141
	35.26		37678	BV	142
	35.56		25727	VE	143
	35.99		8801	EB	144
	36.47		2209	BV	145
	36.64		3706	VB	146
	37.03		902	BB	147
DCB	37.54	0.00513	9120	BB	148
	38.17		13335	BB	149
	38.81		6035	BB	150
	39.32		7060	BB	151
	39.88		2618	BV	152

Sample ID: 65112 3250 10X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_016 Analysis Date: 8-MAY-1997 04:41:39

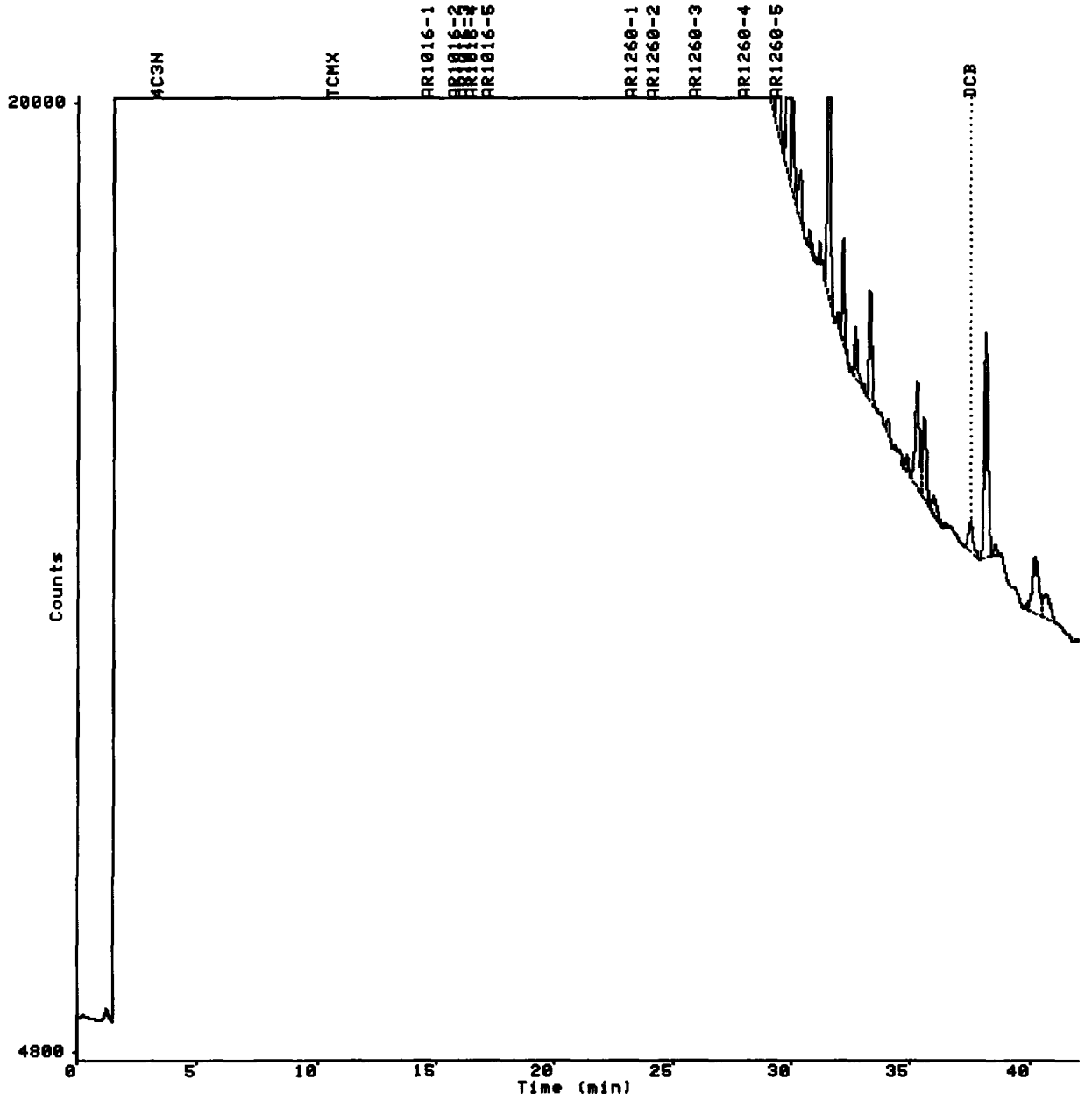
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	40.19		19900	VB	153
	40.75		3984	BB	154
	41.82		2755	BB	155

AR1016 average result...11.6
AR1260 average result...1.20

Run Number..... 15 End of Report.

Run Number..... 16
Sample Name..... 65112 3260 10X
Run Date..... 8-MAY-1997 05:28:02
Raw File..... 10_0507_017
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



65112 3260 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 3260 10X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_017 Analysis Date: 8-MAY-1997 05:28:02

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	3.02		1090237	BB	1
	3.51		2136190	BV	2
	3.88		382975	VV	3
	4.04		210908	VV	4
	4.13		454569	VB	5
	4.57		2991627	BB	6
	4.96		43330	BV	7
	5.05		147206	VB	8
	5.45		4012174	BE	9
	5.90		65891	EB	10
	6.10		255695	BV	11
	6.34		3494528	VB	12
	6.87		1019624	BV	13
	7.12		1653544	VB	14
	7.75		126318	BB	15
	8.15		90452	BV	16
	8.29		1034110	VV	17
	8.59		951096	VB	18
	9.02		28427	BB	19
	9.25		10380	BV	20
	9.55		344906	VE	21
	9.71		56803	EB	22
	10.11		2126	BV	23
	10.36		366369	VV	24
TCMX	10.67	0.410	422683	VV	25
	11.00		538772	VV	26
	11.37		552894	VV	27
	11.64		442123	VE	28
	11.83		37341	EB	29
	12.19		322327	BB	30
	12.49		4643	BB	31
	12.62		1344	BB	32
	12.81		11010	BV	33
	12.98		1286615	VV	34
	13.32		412811	VE	35
	13.49		34295	EV	36
	13.62		115373	VB	37
	13.89		14081	BV	38
	13.98		3360	VB	39
	14.20		49402	BV	40
	14.40		87473	VV	41
	14.50		160954	VE	42
AR1016-1	14.69	0.513	11500	EV	43
	14.87		11580	EB	44
	15.04		18936	BB	45
	15.50		43777	BV	46
	15.61		13798	VV	47
AR1016-2	15.73	0.236	17700	VV	48
	16.04		535100	VE	49
AR1016-3	16.24	0.739	20203	EV	50

Sample ID: 65112 3260 10X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_017 Analysis Date: 8-MAY-1997 05:28:02

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
AR1016-4	16.44	10.9	209871	VV	51
	16.68		40784	VV	52
	16.78		75109	VV	53
	17.00		21092	VV	54
	17.10		39715	VV	55
AR1016-5	17.19	4.70	53555	VV	56
	17.37		68280	VV	57
	17.61		131980	VV	58
	17.78		54038	VV	59
	17.90		20217	VV	60
	18.07		22559	VV	61
	18.25		116482	VB	62
	18.50		15571	BB	63
	18.79		1661	BV	64
	18.86		1767	VV	65
	18.99		14858	VB	66
	19.27		98567	BV	67
	19.48		50121	VV	68
	19.73		92236	VV	69
	19.86		93289	VV	70
	20.15		25922	VV	71
	20.22		35650	VV	72
	20.45		141035	VV	73
	20.76		77541	VV	74
	20.90		31866	VV	75
	20.99		44714	VV	76
	21.18		31718	VV	77
	21.43		26841	VV	78
	21.56		67529	VV	79
	21.68		36179	VV	80
	21.88		56829	VV	81
	22.10		26931	VV	82
	22.28		130144	VE	83
	22.54		8329	EV	84
	22.78		47082	VV	85
	22.93		20854	VV	86
AR1260-1	23.24	2.67	87425	VV	87
	23.30		49350	VV	88
	23.42		27102	VV	89
	23.60		16914	VV	90
	23.72		27280	VV	91
	23.94		85254	VV	92
AR1260-2	24.18	1.33	75243	VV	93
	24.40		62330	VV	94
	24.71		35358	VV	95
	24.82		10178	VV	96
	25.05		28604	VV	97
	25.32		83982	VV	98
	25.44		22390	VB	99
	25.66		11042	BV	100
	25.79		8955	VV	101

Sample ID: 65112 3260 10X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_017 Analysis Date: 8-MAY-1997 05:28:02

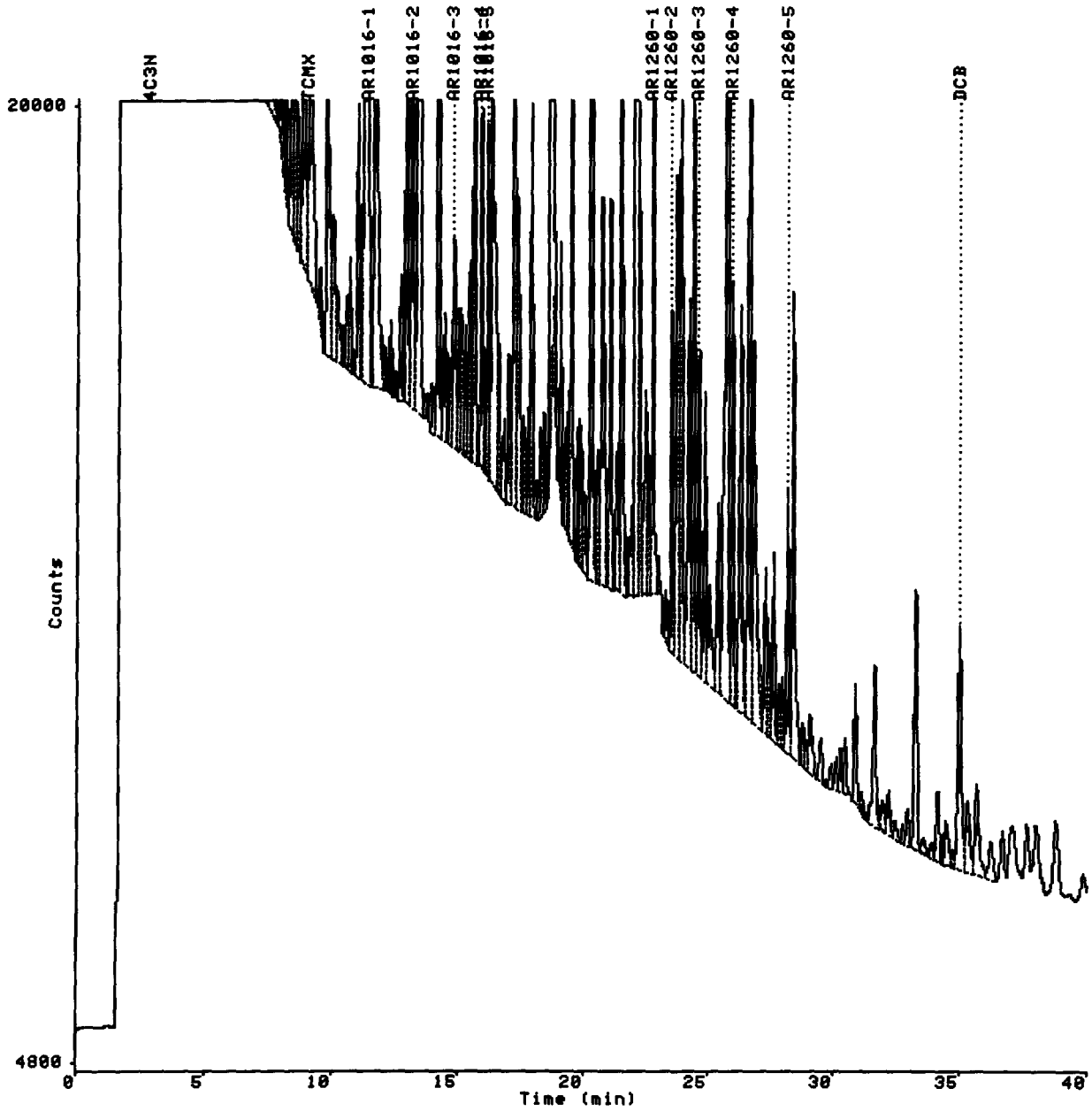
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
AR1260-3	25.96	0.653	31184	VV	102
	26.16		67019	VV	103
	26.44		32287	VV	104
	26.63		29891	VV	105
	26.92		40842	VV	106
	27.14		40801	VV	107
	27.34		29036	VV	108
	27.58		13633	VV	109
	27.76		14004	VV	110
AR1260-4	28.00	0.607	81982	VB	111
	28.57		37383	BB	112
	29.15		5112	BV	113
AR1260-5	29.36	0.357	21497	VB	114
	29.82		32690	BV	115
	30.02		11339	VV	116
	30.22		1275	VV	117
	30.34		7609	VB	118
	30.71		2842	BB	119
	31.15		1891	BB	120
	31.54		46358	BB	121
	31.95		912	BB	122
	32.16		12581	BB	123
	32.69		7829	VB	124
	33.30		14523	BB	125
	34.03		2274	BB	126
	34.82		2877	BV	127
	35.27		20628	VV	128
	35.56		15135	VE	129
	35.95		4539	EB	130
	36.46		752	BB	131
DCB	37.50	0.00292	6608	BB	132
	38.16		40352	BE	133
	38.55		1564	EB	134
	39.92		672	BV	135
	40.22		17109	VV	136
	40.72		8485	VB	137

AR1016 average result...3.41
AR1260 average result...1.12

Run Number..... 16 End of Report.

Run Number..... 16
Sample Name..... 65112 3250 10X
Run Date..... 8-MAY-1997 04:41:46
Raw File..... 11_0507_016
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD B0B1



65112 3250 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 3250 10X
Datafile: 11_0507_016

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 8-MAY-1997 04:41:46

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	2.46		1132163	BB	1
	2.84		75369	BB	2
4C3N	3.08	0.123	478525	BV	3
	3.26		1658148	VE	4
	3.62		79730	EB	5
	4.07		1199512	BV	6
	4.28		247235	VV	7
	4.38		450982	VV	8
	4.62		269481	VV	9
	4.83		86360	VB	10
	5.21		353248	BE	11
	5.39		2205	EV	12
	5.53		345787	VB	13
	5.92		22419	BV	14
	6.01		144130	VB	15
	6.43		3310	BV	16
	6.60		46839	VV	17
	6.78		16290	VV	18
	6.90		229013	VE	19
	7.20		23917	EV	20
	7.44		438231	VE	21
	7.74		14489	EB	22
	8.00		21144	BV	23
	8.15		8956	VB	24
	8.39		21943	BV	25
	8.52		21714	VV	26
	8.63		15292	VV	27
	8.85		103857	VV	28
	9.14		69606	VB	29
TCMX	9.51	0.0664	7048	BB	30
	9.79		50537	BV	31
	10.04		16069	VV	32
	10.16		9807	VV	33
	10.40		3122	VB	34
	10.58		8064	BV	35
	10.69		8907	VB	36
	10.85		1579	BV	37
	11.02		21674	VV	38
	11.16		13652	VV	39
	11.31		994008	VB	40
	11.70		134281	BE	41
	12.07		4560	EB	42
	12.31		6675	BB	43
	12.49		1882	BB	44
	12.73		14026	BB	45
	12.93		43520	BV	46
	13.15		34848	VV	47
AR1016-2	13.43	1.14	533783	VB	48
	13.78		1852	BB	49
	13.97		5261	BV	50

Sample ID: 65112 3250 10X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_016 Analysis Date: 8-MAY-1997 04:41:46

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	14.21		96314	VV	51
	14.48		13937	VB	52
	14.69		7936	BV	53
AR1016-3	14.84	0.356	26765	VV	54
	15.06		13715	VV	55
	15.16		11354	VV	56
	15.28		9744	VV	57
	15.44		16475	VV	58
	15.55		19447	VV	59
	15.66		49847	VB	60
AR1016-4	15.94	1.62	32757	BV	61
	16.10		5441	VV	62
AR1016-5	16.19	2.18	27359	VV	63
	16.36		72991	VV	64
	16.62		13458	VV	65
	16.84		7768	VB	66
	17.02		14165	BV	67
	17.22		114187	VV	68
	17.39		33483	VV	69
	17.56		7254	VV	70
	17.67		7369	VV	71
	17.83		6879	VV	72
	17.93		34189	VE	73
	18.11		3314	EB	74
	18.30		8795	BV	75
	18.44		7718	VB	76
	18.72		206968	BB	77
	19.09		16047	BB	78
	19.29		8373	BV	79
	19.40		10825	VV	80
	19.52		44242	VB	81
	19.80		9413	BV	82
	19.90		11358	VV	83
	20.05		9323	VB	84
	20.29		173435	BE	85
	20.50		9133	EV	86
	20.60		10869	EV	87
	20.75		56045	VV	88
	20.97		4173	VV	89
	21.08		34365	VB	90
	21.36		17117	BV	91
	21.51		64494	VE	92
	21.69		2742	EB	93
	21.93		10722	BV	94
	22.08		137299	VV	95
	22.24		28439	VV	96
	22.48		23167	VV	97
	22.57		10720	VV	98
AR1260-1	22.76	0.924	47819	VB	99
	23.01		1919	BB	100
	23.29		4573	VB	101

Sample ID: 65112 3250 10X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_016 Analysis Date: 8-MAY-1997 04:41:46

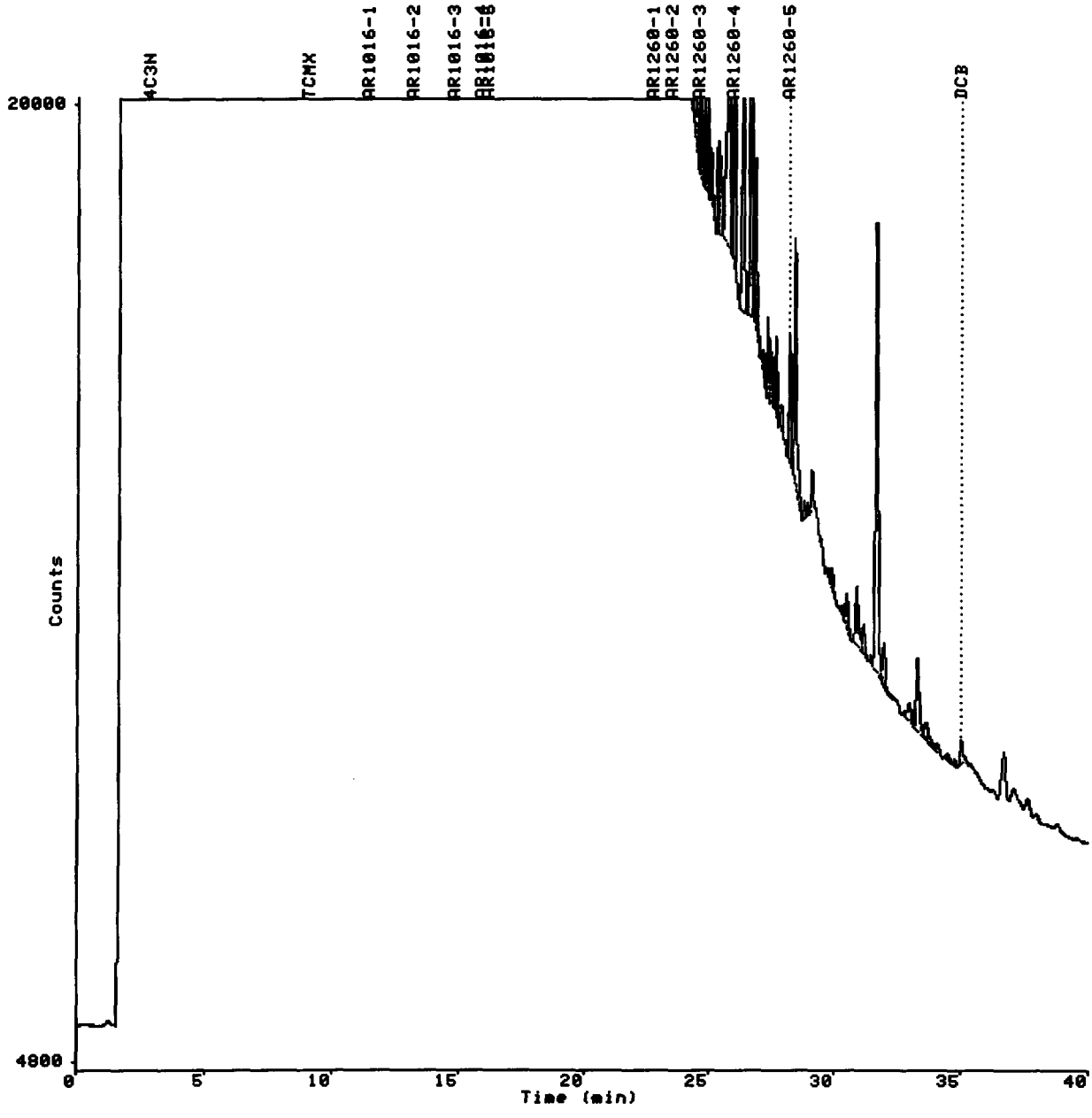
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
AR1260-2	23.52	0.957	24661	BV	102
	23.72		55416	VV	103
	23.88		70396	VV	104
	24.21		37227	VV	105
	24.37		60458	VV	106
AR1260-3	24.61	0.651	26598	VV	107
	24.84		25779	VV	108
	25.02		14947	VV	109
	25.37		18855	VV	110
	25.71		168304	VV	111
AR1260-4	25.93	0.854	34980	VE	112
	26.07		2292	EV	113
	26.27		49717	VE	114
	26.47		5869	EV	115
	26.61		95046	VV	116
	26.79		57025	VE	117
	27.06		5110	EV	118
	27.27		18378	VV	119
	27.43		8772	VV	120
	27.60		16938	VV	121
	27.84		7679	VV	122
	27.96		5870	VV	123
AR1260-5	28.16	0.702	24410	VV	124
	28.38		51382	VB	125
	28.77		4569	BV	126
	28.89		2411	VV	127
	29.06		9537	VV	128
	29.49		6202	VV	129
	29.90		3077	BV	130
	30.11		3100	VV	131
	30.28		3983	VV	132
	30.46		5451	VB	133
	30.86		13500	BE	134
	31.11		2563	EB	135
	31.63		22695	BE	136
	31.95		5136	EV	137
	32.20		5422	VV	138
	32.46		2424	VB	139
	32.76		1810	BV	140
	32.95		4425	VB	141
	33.25		33270	BE	142
	33.56		2510	EV	143
	33.88		2051	VV	144
	34.14		9063	VB	145
	34.46		7677	BV	146
	34.70		1993	VV	147
DCB	34.99	0.0331	38501	VV	148
	35.31		12956	VV	149
	35.68		16742	VV	150
	36.23		6947	VB	151

AR1016 average result...1.06
AR1260 average result...0.817

Run Number..... 16 End of Report.

Run Number..... 17
Sample Name..... 65112 3260 10X
Run Date..... 8-MAY-1997 05:28:07
Raw File..... 11_0507_017
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



65112 3260 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 3260 10X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_017 Analysis Date: 8-MAY-1997 05:28:07

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	2.46		61840	BV	1
	2.54		380176	VB	2
	3.18		747524	BV	3
	3.35		1270794	VV	4
	3.62		350514	VV	5
	3.81		407138	VB	6
	4.13		1024241	BB	7
	4.67		150306	BB	8
	5.02		833	BB	9
	5.25		1008002	BV	10
	5.59		507661	VV	11
	5.74		140819	VV	12
	6.07		552593	VB	13
	6.46		1581	BB	14
	6.61		2446	BB	15
	6.93		259287	BB	16
	7.49		870985	BB	17
	7.82		7872	BB	18
	8.04		32760	BB	19
	8.20		11643	BB	20
	8.36		7140	BV	21
	8.56		76434	VB	22
	8.90		141606	BB	23
	9.17		81300	BB	24
	9.44		131428	BB	25
	9.80		10960	BV	26
	9.96		80098	VB	27
	10.19		2368	BB	28
	10.42		12837	BV	29
	10.72		68436	VV	30
	10.92		807883	VE	31
	11.21		33372	EV	32
	11.33		76477	EV	33
AR1016-1	11.44	20.4	307983	VV	34
	11.73		358118	VE	35
	11.96		18309	EB	36
	12.35		14822	BB	37
	12.71		18582	BV	38
	12.94		24770	VV	39
AR1016-2	13.09	13.6	382550	VE	40
	13.44		26488	EV	41
	13.63		100426	VV	42
	13.81		98514	VV	43
	13.98		56447	VV	44
	14.22		22608	VB	45
	14.45		17203	BV	46
	14.52		22197	VB	47
	14.66		3207	BV	48
AR1016-3	14.81	0.485	35024	VV	49
	14.96		8996	VB	50

Sample ID: 65112 3260 10X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_017 Analysis Date: 8-MAY-1997 05:28:07

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	15.12		2545	BB	51
	15.29		16777	BV	52
	15.52		86465	VB	53
AR1016-4	15.94	1.15	23713	BV	54
	16.12		71197	VV	55
AR1016-5	16.23	5.55	67681	VV	56
	16.39		26381	VV	57
	16.56		45746	VV	58
	16.71		7197	VB	59
	16.84		1856	BB	60
	17.03		13954	BV	61
	17.20		30324	VV	62
	17.42		63014	VV	63
	17.57		9946	VV	64
	17.69		22189	VV	65
	17.84		18292	VV	66
	17.91		19225	VB	67
	18.05		2161	BV	68
	18.15		1169	VV	69
	18.28		10161	VV	70
	18.36		20345	VB	71
	18.65		16403	BV	72
	18.74		40508	VV	73
	18.87		31964	VV	74
	18.96		16827	VV	75
	19.09		21154	VB	76
	19.33		25667	BV	77
	19.55		76886	VB	78
	19.81		12956	BV	79
	19.90		3786	VV	80
	20.01		5402	VB	81
	20.14		5118	BB	82
	20.31		35137	BB	83
	20.60		51201	BV	84
	20.78		31843	VB	85
	20.95		2197	BB	86
	21.08		30909	BB	87
	21.32		8506	BV	88
	21.51		57350	VB	89
	21.70		3036	BB	90
	21.86		13618	BV	91
	21.94		2797	VB	92
	22.15		57178	BV	93
	22.25		34674	VB	94
	22.50		4368	BB	95
	22.68		5313	BV	96
AR1260-1	22.77	0.657	34518	VB	97
	22.88		1445	BB	98
	23.10		7604	BB	99
	23.30		7482	BB	100
AR1260-2	23.52	0.454	12643	BB	101

Sample ID: 65112 3260 10X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_017 Analysis Date: 8-MAY-1997 05:28:07

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	23.72		30048	BV	102
	23.80		8563	VV	103
	23.91		26544	VB	104
	24.21		19562	BB	105
	24.37		51099	BB	106
AR1260-3	24.62	0.370	16198	BB	107
	24.84		19952	BB	108
	25.00		4994	BB	109
	25.29		7088	BV	110
	25.38		5379	VB	111
	25.71		53876	BB	112
AR1260-4	25.94	0.539	22819	BB	113
	26.28		27048	BB	114
	26.47		1902	BV	115
	26.61		48342	VB	116
	26.79		13066	BB	117
	27.05		2301	BB	118
	27.28		7558	BV	119
	27.43		4263	VB	120
	27.60		6481	BB	121
	27.83		3416	BB	122
AR1260-5	28.16	0.290	10786	BB	123
	28.38		25225	BB	124
	28.77		1253	BB	125
	28.92		825	BV	126
	29.07		3689	VB	127
	29.69		883	BV	128
	29.84		2399	VB	129
	30.26		845	BV	130
	30.46		3960	VB	131
	30.86		7617	BV	132
	31.12		3763	VB	133
	31.42		733	BV	134
	31.64		52980	VE	135
	31.93		4874	EB	136
	32.95		2975	BB	137
	33.26		10174	BE	138
	33.60		3619	EV	139
	34.06		1475	VB	140
	34.42		1134	BB	141
	34.74		725	BB	142
DCB	35.01	-0.00261	2847	BB	143

AR1016 average result...8.24
AR1260 average result...0.462

Run Number..... 17 End of Report.

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOLID LABORATORY CONTROL SAMPLE (LCS) AND
LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)
LCS (1164-154-1) and LCSD (1164-154-2)

9700.860

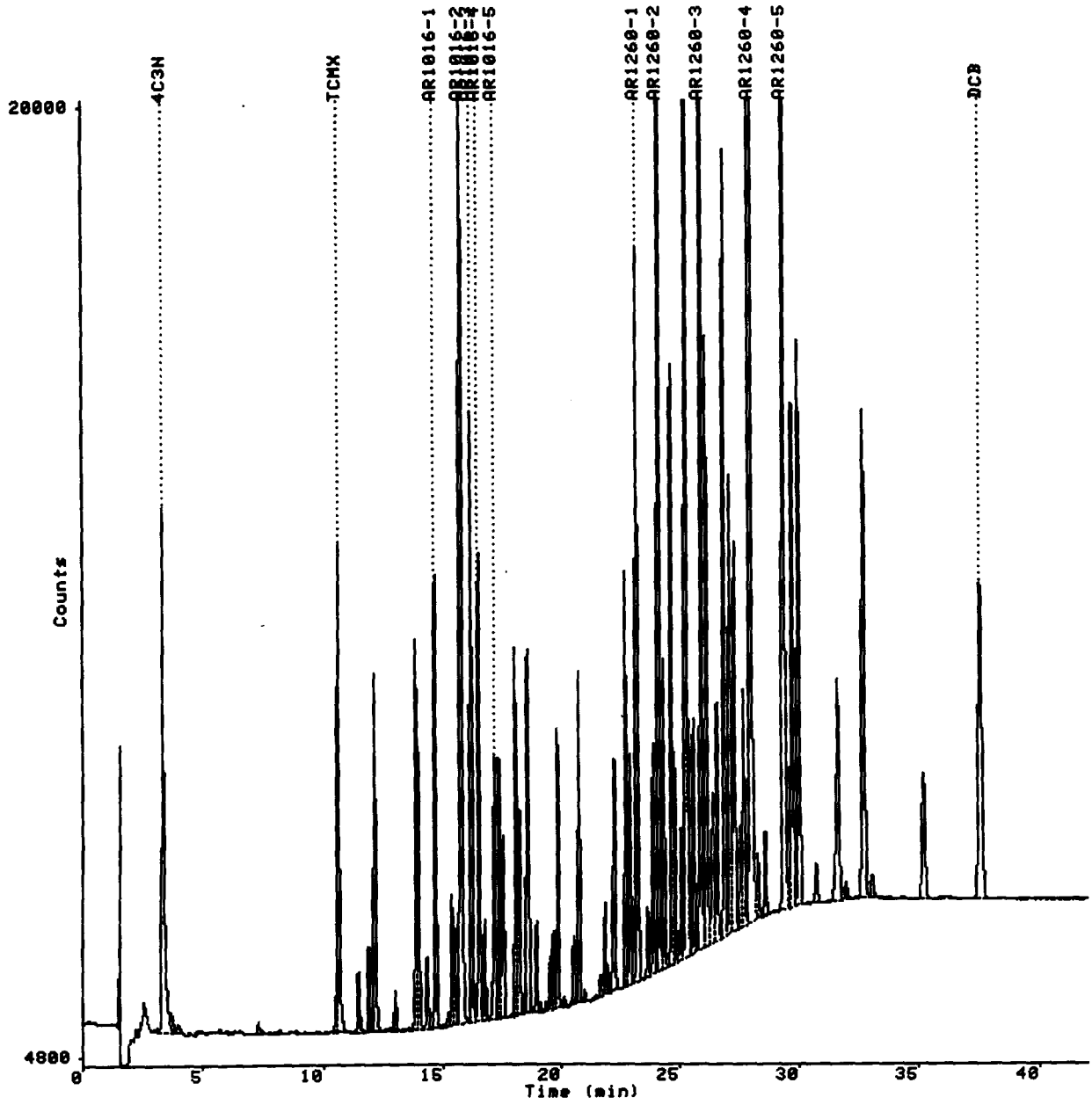
(mg/kg)

	Amount Added		Amount Determined		Percent Recovery		
Parameter	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD
PCB-1016	0.333	0.333	0.375	0.379	113	114	0.9
PCB-1260	0.333	0.333	0.372	0.371	112	111	0.9

THESE RECOVERIES AND RPDs ARE WITHIN E & E, INC. QC TARGETS.

Run Number..... 7
Sample Name..... SLCS1164-154-1 2X
Run Date..... 7-MAY-1997 21:45:12
Raw File..... 10_0507_007
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



SLCS1164-154-1 2X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 2

Entered Conversion Factor..20.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: SLCS1164-154-1 2X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_007 Analysis Date: 7-MAY-1997 21:45:12

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
4C3N	3.33	0.0134	49709	VE	1
	3.71		2157	EV	2
	3.99		833	EB	3
	7.30		1234	BB	4
	10.53		2239	VV	5
TCMX	10.64	0.00718	40786	VB	6
	11.48		5359	BB	7
	11.91		6471	BV	8
	12.15		29311	VB	9
	13.00		3147	VB	10
	13.88		30555	BV	11
	13.97		20629	VV	12
	14.32		6450	VB	13
AR1016-1	14.68	0.373	37238	BE	14
	15.20		945	EV	15
	15.37		9886	VV	16
	15.49		7159	VV	17
AR1016-2	15.79	0.368	111811	VV	18
AR1016-3	16.20	0.374	47902	VV	19
AR1016-4	16.53	0.374	37398	VV	20
	16.75		8004	VV	21
AR1016-5	17.18	0.385	22636	VV	22
	17.37		20264	VV	23
	17.53		19216	VB	24
	18.07		29918	VV	25
	18.22		18445	VV	26
	18.59		38863	VB	27
	18.94		6837	BE	28
	19.11		625	EB	29
	19.35		566	BV	30
	19.51		3913	VV	31
	19.65		6014	VV	32
	19.85		23240	VE	33
	20.12		1004	EB	34
	20.52		6006	BV	35
	20.75		25892	VE	36
	20.98		922	EB	37
	21.45		598	BV	38
	21.66		1925	VV	39
	21.87		7243	VE	40
	22.27		25979	VB	41
	22.75		31725	BV	42
	22.94		19590	VE	43
AR1260-1	23.23	0.384	63527	VB	44
	23.69		5472	BV	45
	23.93		17940	VB	46
AR1260-2	24.17	0.369	104371	BV	47
	24.36		25221	VB	48
	24.70		47055	BV	49
	24.82		14793	VB	50

Sample ID: SLCS1164-154-1 2X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_007 Analysis Date: 7-MAY-1997 21:45:12

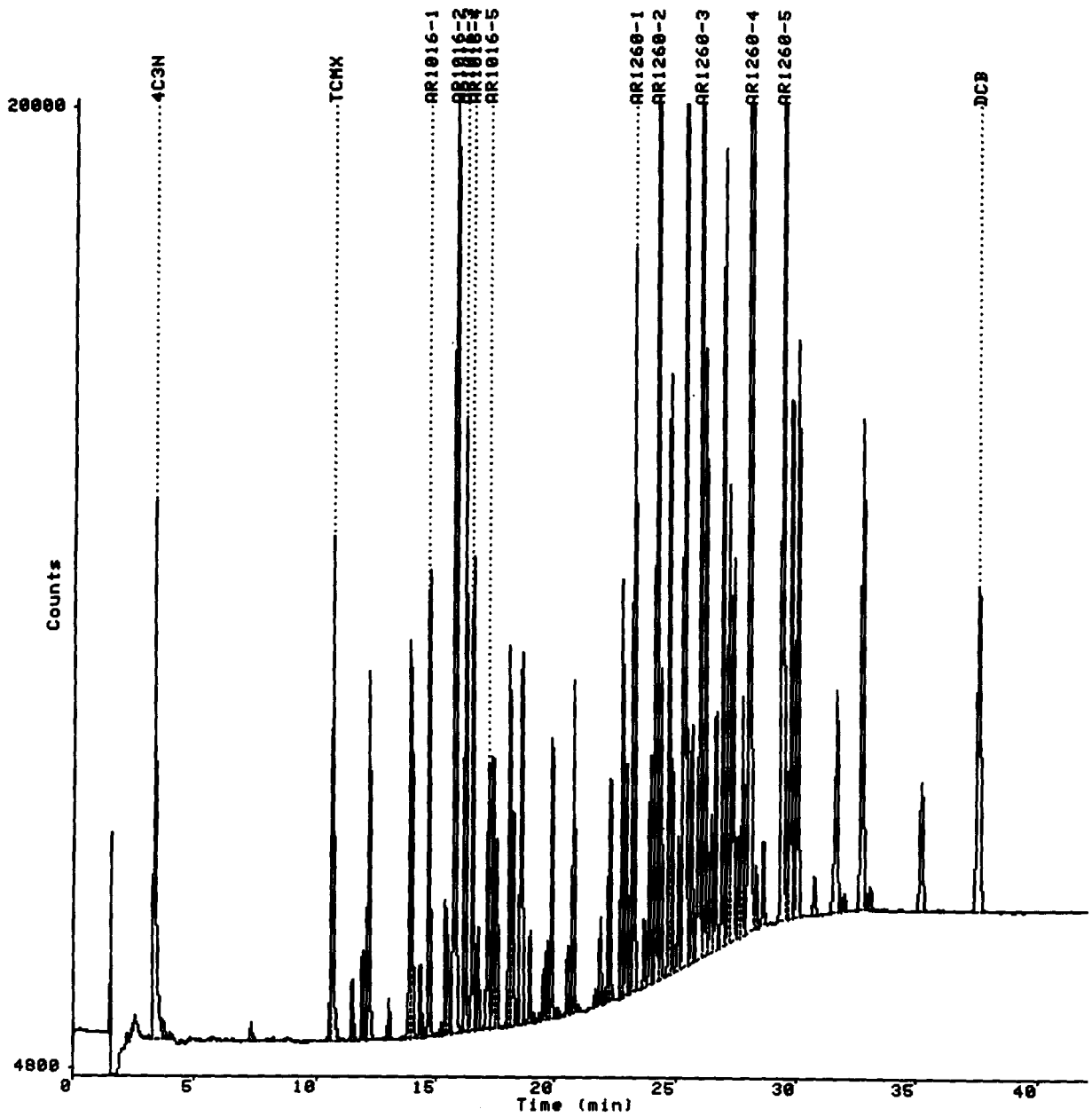
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.10		10674	BV	51
	25.31		123365	VE	52
	25.42		9930	EV	53
	25.63		19191	VV	54
AR1260-3	25.96	0.370	86434	VV	55
	26.16		50757	VV	56
	26.43		16125	VV	57
	26.61		19375	VV	58
	26.91		61872	VV	59
	27.14		38147	VV	60
	27.33		37689	VV	61
	27.58		8884	VV	62
	27.72		20066	VV	63
AR1260-4	27.99	0.369	252317	VE	64
	28.30		5952	EV	65
	28.60		7737	EB	66
AR1260-5	29.37	0.368	107975	BV	67
	29.58		2779	VV	68
	29.73		49531	VV	69
	30.00		58688	VB	70
	30.73		3874	BB	71
	31.64		28984	BV	72
	31.97		2023	VB	73
	32.70		58356	BE	74
	33.06		2930	EB	75
	35.19		17552	BB	76
DCB	37.55	0.00845	51409	BB	77

AR1016 average result...0.375
AR1260 average result...0.372

Run Number..... 7 End of Report.

Run Number..... 8
Sample Name..... SLCS1164-154-2 2X
Run Date..... 7-MAY-1997 22:31:35
Raw File..... 10_0507_008
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



SLCS1164-154-2 2X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 2

Entered Conversion Factor..20.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: SLCS1164-154-2 2X
Datafile: 10_0507_008

Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Analysis Date: 7-MAY-1997 22:31:35

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
4C3N	3.34	0.0138	50873	VE	1
	3.72		1908	EV	2
	4.00		931	EB	3
	4.81		598	BB	4
	7.31		1765	BB	5
	10.54		2171	BV	6
TCMX	10.65	0.00754	42651	VB	7
	11.49		5106	BB	8
	11.91		6642	BV	9
	12.16		29928	VB	10
	13.01		3110	BB	11
	13.88		31722	BV	12
	13.97		20582	VV	13
	14.33		6469	VB	14
AR1016-1	14.69	0.380	37864	BB	15
	15.20		933	VV	16
	15.37		10012	VV	17
	15.49		7173	VV	18
AR1016-2	15.79	0.372	113043	VV	19
AR1016-3	16.21	0.378	48458	VV	20
AR1016-4	16.53	0.379	37848	VV	21
	16.76		8148	VB	22
AR1016-5	17.18	0.385	22616	BV	23
	17.38		20508	VV	24
	17.53		19612	VB	25
	18.07		30294	VV	26
	18.22		18857	VV	27
	18.59		39617	VV	28
	18.95		7159	VE	29
	19.12		664	EB	30
	19.36		623	BV	31
	19.52		3878	VV	32
	19.66		5910	VV	33
	19.85		23124	VE	34
	20.13		856	EB	35
	20.52		5708	BV	36
	20.75		25366	VE	37
	20.98		542	EB	38
	21.66		1242	BV	39
	21.87		6391	VE	40
	22.20		7230	VV	41
	22.28		17811	VB	42
	22.75		31878	BV	43
	22.94		19701	VE	44
AR1260-1	23.24	0.380	62819	VB	45
	23.70		5412	BV	46
	23.93		17773	VV	47
AR1260-2	24.17	0.369	104112	VV	48
	24.37		24554	VB	49
	24.70		47177	BV	50

222

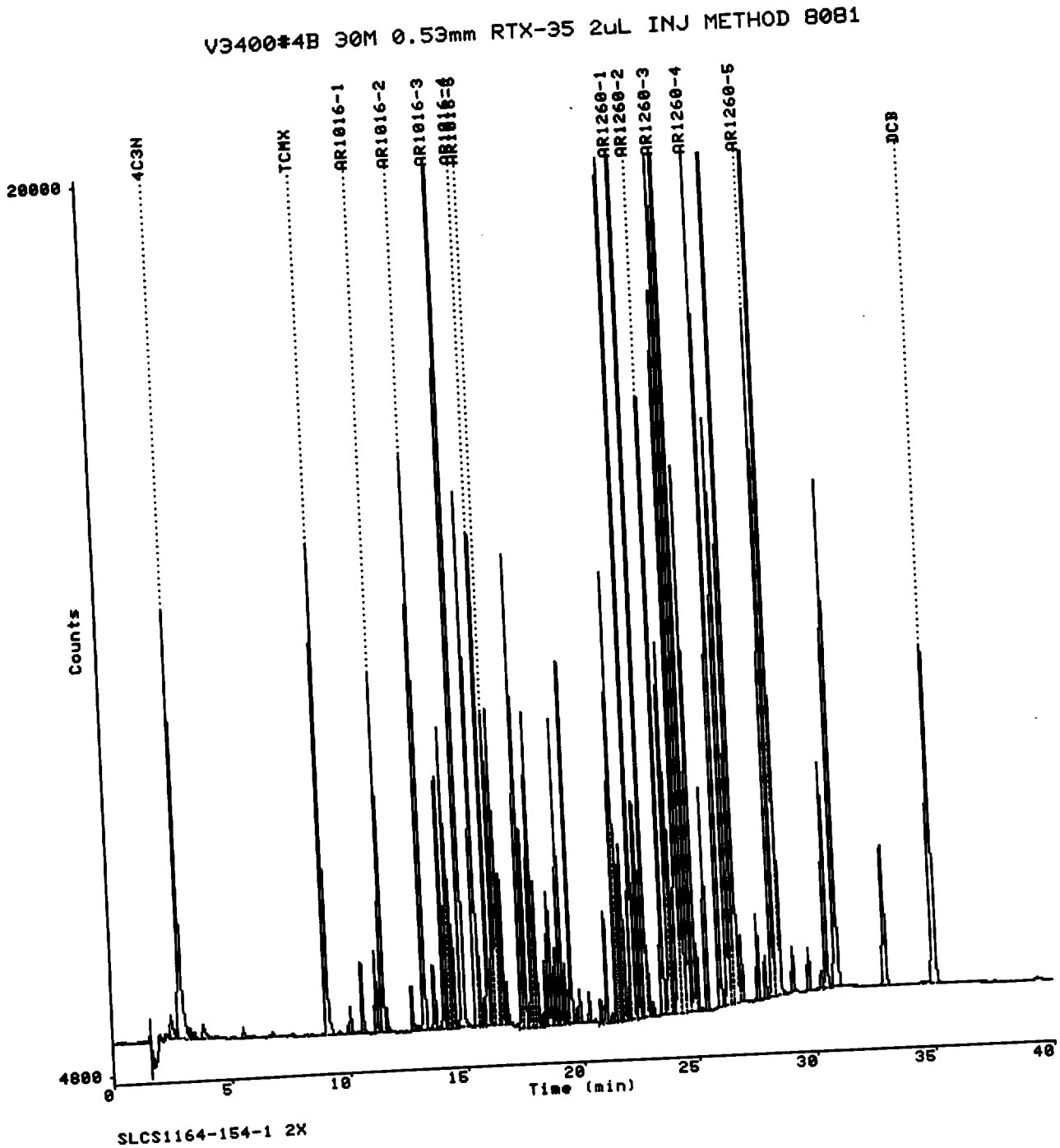
Sample ID: SLCS1164-154-2 2X Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_008 Analysis Date: 7-MAY-1997 22:31:35

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	24.82		14666	VV	51
	25.11		10444	VV	52
	25.31		132150	VV	53
	25.63		19020	VV	54
AR1260-3	25.96	0.370	86406	VV	55
	26.16		47486	VV	56
	26.44		14152	VV	57
	26.62		18714	VV	58
	26.91		61692	VV	59
	27.14		38073	VV	60
	27.33		37029	VV	61
	27.59		8656	VV	62
	27.72		19962	VV	63
AR1260-4	27.99	0.368	251648	VE	64
	28.30		5643	EV	65
	28.60		7565	VB	66
AR1260-5	29.36	0.367	107609	BV	67
	29.58		2858	VV	68
	29.73		49675	VV	69
	30.00		58899	VB	70
	30.73		3905	BB	71
	31.63		28931	BV	72
	31.97		1919	VB	73
	32.70		58642	BE	74
	33.05		2913	EB	75
	35.18		17736	BB	76
DCB	37.54	0.00863	52425	BB	77

AR1016 average result...0.379
AR1260 average result...0.371

Run Number..... 8 End of Report.

Run Number..... 7
Sample Name..... SLCS1164-154-1 2X
Run Date..... 7-MAY-1997 21:45:11
Raw File..... 11_0507_007
Method Name..... 11_AR1660_0507
Method Type..... Linear



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 2

Entered Conversion Factor..20.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: SLCS1164-154-1 2X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_007 Analysis Date: 7-MAY-1997 21:45:11

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	2.51		3150	BV	1
4C3N	2.85	0.0138	43514	VE	2
	3.27		1410	EV	3
	3.48		559	EB	4
	3.86		2176	BB	5
	5.54		1020	BB	6
TCMX	9.05	0.00724	41395	VB	7
	9.99		655	BV	8
	10.09		2234	VE	9
	10.59		6026	VB	10
	11.17		6307	BV	11
AR1016-1	11.44	0.369	29020	VE	12
	11.62		1881	EB	13
	12.69		3410	BV	14
AR1016-2	13.19	0.372	54826	BB	15
	13.63		6759	BE	16
	14.05		20450	VV	17
	14.28		24904	VV	18
	14.36		9385	VV	19
	14.50		7846	VB	20
AR1016-3	14.84	0.374	123691	BV	21
	15.43		49437	VV	22
	15.61		4672	VV	23
	15.80		1979	VV	24
AR1016-4	15.93	0.374	37539	VV	25
AR1016-5	16.19	0.384	24284	VV	26
	16.38		33190	VV	27
	16.49		10161	VV	28
	16.60		11187	VV	29
	16.77		3052	VB	30
	17.40		41648	BV	31
	17.56		15784	VV	32
	17.82		13006	VV	33
	17.92		24781	VV	34
	18.05		11674	VE	35
	18.28		1039	EV	36
	18.43		5104	VV	37
	18.62		14829	VV	38
	18.86		6101	VV	39
	19.08		23583	VV	40
	19.26		4597	VE	41
	19.40		826	EV	42
	19.52		27855	VE	43
	19.80		1070	EV	44
	19.90		2712	EB	45
	20.31		2246	BV	46
	20.80		2393	BV	47
	21.06		9067	VE	48
	21.31		993	EV	49
	21.50		18741	VV	50

Sample ID: SLCS1164-154-1 2X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_007 Analysis Date: 7-MAY-1997 21:45:11

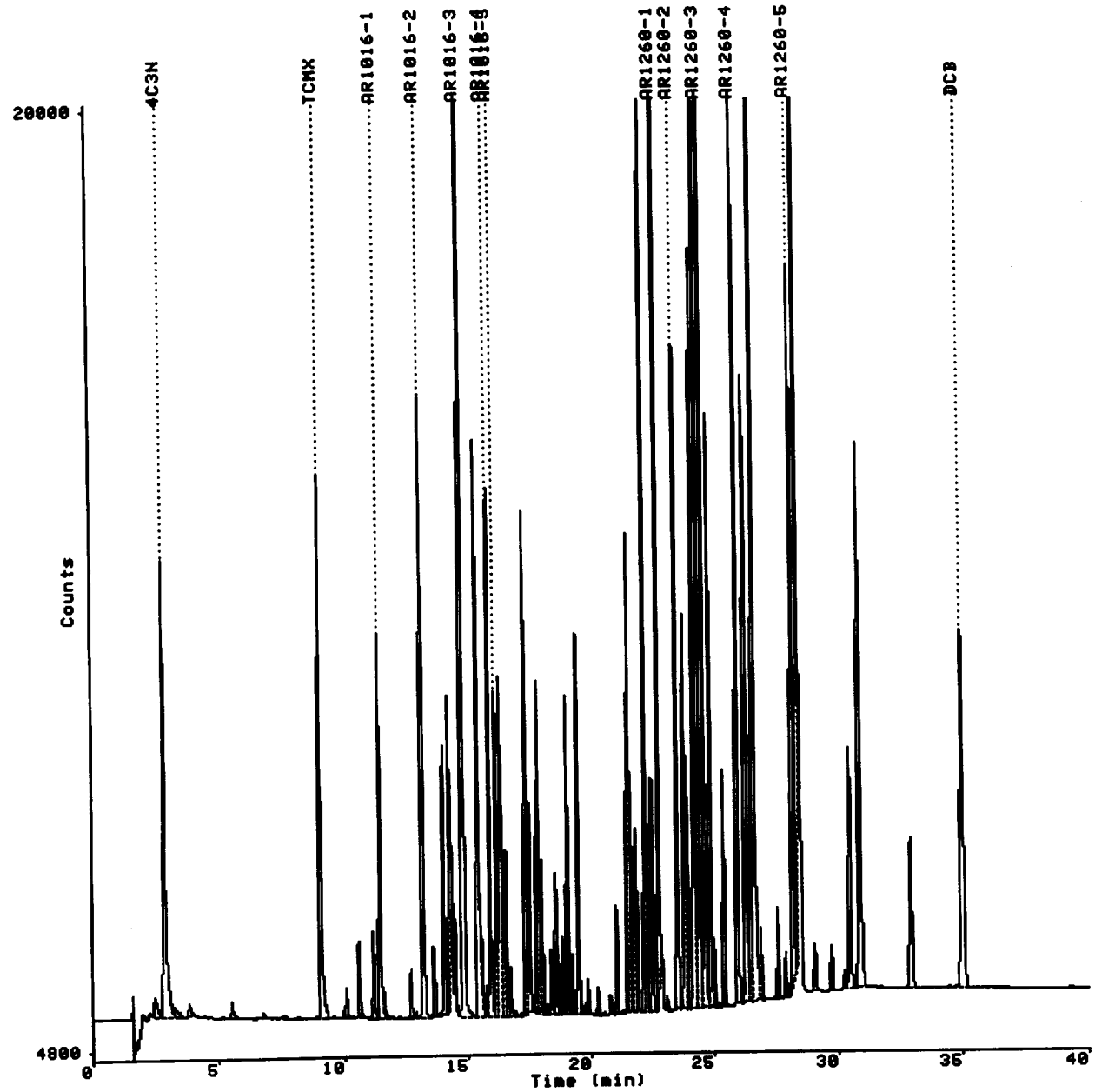
Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	21.58		36491	VV	51
	21.70		11363	VV	52
	21.80		9729	VV	53
	21.86		13549	VV	54
	22.15		8689	VV	55
	22.24		68823	VV	56
	22.50		16904	VV	57
AR1260-1	22.76	0.387	98389	VE	58
	22.88		3600	EV	59
	23.08		1274	EB	60
AR1260-2	23.51	0.383	47584	BV	61
	23.80		31961	VV	62
	23.90		17565	VV	63
	24.21		69979	VV	64
	24.37		94668	VV	65
AR1260-3	24.61	0.374	71813	VV	66
	24.84		43738	VE	67
	24.99		4844	EV	68
	25.38		16977	VB	69
AR1260-4	25.93	0.378	74791	BV	70
	26.26		66389	VV	71
	26.46		19317	VV	72
	26.61		209401	VE	73
	26.87		6426	EB	74
	27.55		7018	BB	75
	27.87		3529	BB	76
AR1260-5	28.16	0.383	64600	BV	77
	28.37		120487	VE	78
	28.48		12569	EB	79
	29.04		4239	BB	80
	29.71		4216	BB	81
	30.25		1807	VV	82
	30.46		23842	VV	83
	30.86		57998	VB	84
	32.94		17470	BB	85
	35.01		48976	BB	86
DCB		0.00871			

AR1016 average result...0.375
AR1260 average result...0.381

Run Number..... 7 End of Report.

Run Number..... 8
Sample Name..... SLCS1164-154-2 2X
Run Date..... 7-MAY-1997 22:31:35
Raw File..... 11_0507_008
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



SLCS1164-154-2 2X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 2

Entered Conversion Factor..20.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: SLCS1164-154-2 2X
Datafile: 11_0507_008

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 7-MAY-1997 22:31:35

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	2.50		2772	BV	1
4C3N	2.86	0.0140	44081	VE	2
	3.34		1420	EV	3
	3.49		551	EB	4
	3.86		1899	BB	5
	5.54		1469	BB	6
TCMX	9.06	0.00763	43220	VB	7
	10.00		658	BV	8
	10.09		2247	VB	9
	10.60		6100	VB	10
	11.18		6467	BV	11
AR1016-1	11.44	0.376	29527	VE	12
	11.62		1846	EB	13
	12.70		3460	BE	14
AR1016-2	13.19	0.380	55927	BB	15
	13.64		6840	BE	16
	14.05		20285	BB	17
	14.29		16653	BB	18
	14.50		5609	BB	19
AR1016-3	14.84	0.379	125167	BV	20
	15.44		49560	VE	21
	15.62		5599	EV	22
	15.80		1986	EV	23
AR1016-4	15.94	0.381	38275	VV	24
AR1016-5	16.20	0.388	24485	VV	25
	16.39		33974	VV	26
	16.49		10644	VV	27
	16.61		11757	VV	28
	16.78		3675	VE	29
	17.40		41312	BV	30
	17.56		14859	VB	31
	17.82		11839	BV	32
	17.92		24283	VV	33
	18.06		10915	VB	34
	18.29		609	BV	35
	18.43		4548	VV	36
	18.62		14151	VV	37
	18.87		5558	VB	38
	19.09		23067	BV	39
	19.27		4221	VV	40
	19.41		746	VV	41
	19.53		27362	VE	42
	19.80		624	EV	43
	19.90		2628	EB	44
	20.32		1961	BB	45
	20.80		1644	BV	46
	21.07		7828	VB	47
	21.51		16351	BV	48
	21.58		37200	VV	49
	21.70		11202	VV	50

Sample ID: SLCS1164-154-2 2X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_008 Analysis Date: 7-MAY-1997 22:31:35

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	21.81		11271	VV	51
	21.86		11482	VB	52
	22.15		7248	BV	53
	22.25		68516	VV	54
	22.50		16537	VB	55
AR1260-1	22.76	0.365	92700	BB	56
	23.08		884	BB	57
AR1260-2	23.52	0.385	47792	BV	58
	23.80		31291	VV	59
	23.90		17635	VV	60
	24.21		70246	VV	61
	24.37		94254	VV	62
AR1260-3	24.61	0.378	72497	VV	63
	24.84		43903	VE	64
	24.99		4763	EV	65
	25.38		17217	VB	66
AR1260-4	25.93	0.379	75097	BV	67
	26.27		66434	VV	68
	26.46		19752	VV	69
	26.62		210798	VE	70
	26.87		5855	EB	71
	27.56		7067	BB	72
	27.87		3594	BB	73
AR1260-5	28.16	0.363	61361	BB	74
	28.37		82006	BB	75
	29.05		4249	BB	76
	29.71		4230	BB	77
	30.25		1704	BV	78
	30.46		23912	VB	79
	30.86		58256	BB	80
	32.94		17667	BB	81
DCB	35.01	0.00892	50025	BB	82

AR1016 average result...0.381
AR1260 average result...0.374

Run Number..... 8 End of Report.

TEST CODE :SPCB 1 JOB NUMBER :9700.860
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

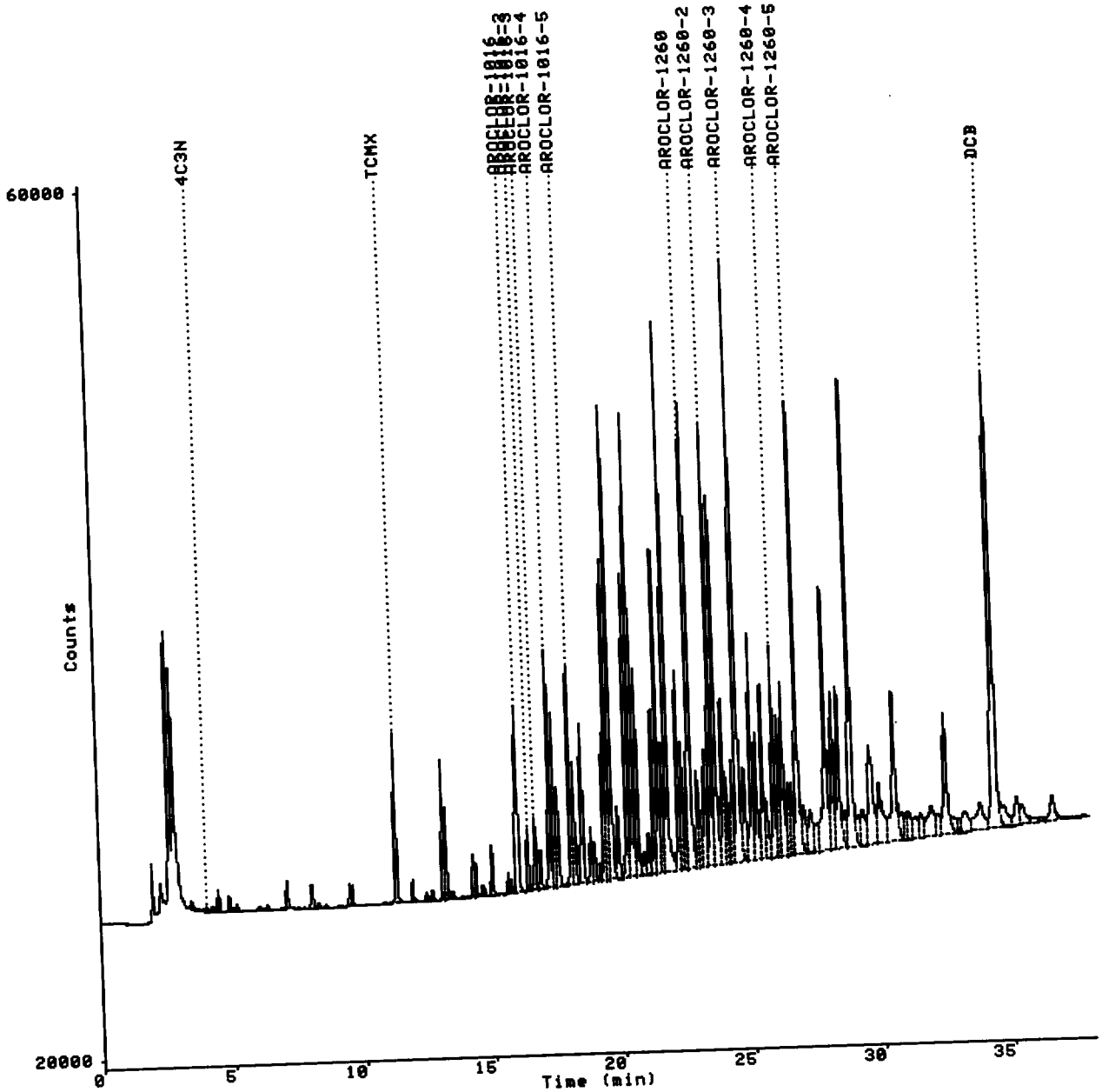
CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 70 %
TEST NAME : 8081 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-97-65106 MATRIX : SOLID
SAMPLE ID CLIENT: Q201

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.14
PCB-1254	0.72		0.14
PCB-1221	ND		0.28
PCB-1232	ND		0.14
PCB-1248	0.48		0.14
PCB-1260	0.61		0.14
PCB-1016	ND		0.14

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Run Number..... 19
Sample Name..... 65106 5X
Run Date..... 3-MAY-1997 06:07:38
Raw File..... 5_0502_019
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65106 5X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 5

Entered Conversion Factor..50.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65106 5X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_019 Analysis Date: 3-MAY-1997 06:07:38

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	4.50		5259	VB	1
	7.12		5812	VE	2
	8.08		7112	VV	3
	9.53		5125	BV	4
TCMX	11.31	0.0110	36331	VV	5
	13.11		28686	BV	6
	13.23		18613	VE	7
	14.27		9230	BV	8
	14.36		7568	VB	9
	15.00		11315	BB	10
AROCLOR-1016	15.99	0.153	58936	VV	11
AROCLOR-1016-2	16.38	0.0636	14781	VV	12
AROCLOR-1016-3	16.67	0.166	17227	VV	13
	16.87		9013	VB	14
AROCLOR-1016-4	17.24	0.637	57978	BV	15
	17.42		39732	VV	16
	17.55		29035	VE	17
AROCLOR-1016-5	18.04	0.513	50694	VV	18
	18.19		31266	VV	19
	18.51		49357	VV	20
	18.83		14063	VV	21
	18.97		9739	VV	22
	19.34		32335	VV	23
	19.46		73368	VV	24
	19.62		126593	VE	25
	19.88		20105	EV	26
	20.25		84188	VV	27
	20.44		115334	VV	28
	20.64		50941	VE	29
	20.88		7455	EV	30
	21.06		11896	EV	31
	21.25		39337	VV	32
	21.44		76289	VV	33
	21.61		30656	VV	34
	21.80		148227	VV	35
	22.23		51318	VV	36
	22.38		32515	VV	37
	22.53		15023	VV	38
AROCLOR-1260	22.68	0.787	172896	VV	39
	22.97		25286	VV	40
	23.06		18528	VV	41
	23.26		33316	VV	42
AROCLOR-1260-2	23.48	0.439	107352	VV	43
	23.68		107418	VV	44
	23.95		43612	VV	45
	24.06		21945	VV	46
	24.22		12796	VV	47
	24.31		26169	VV	48
AROCLOR-1260-3	24.50	0.581	178068	VE	49
	24.79		28811	EV	50

6/16/97

Ave 2-5 = 0.425

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Sample ID: 65106 5X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_019 Analysis Date: 3-MAY-1997 06:07:38

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.07		64118	VV	51
	25.25		36098	VV	52
	25.50		51467	VV	53
	25.65		18827	VV	54
AROCLOR-1260-4	25.91	0.342	57815	VV	55
	26.11		40704	VV	56
	26.28		52836	VV	57
	26.50		22326	VV	58
	26.60		21345	VV	59
AROCLOR-1260-5	26.83	0.338	129740	VE	60
	27.08		21844	EV	61
	27.33		23847	EV	62
	27.64		14870	VV	63
	27.93		104748	VV	64
	28.22		56419	VV	65
	28.43		60714	VE	66
	28.72		14698	EV	67
	28.90		147746	VE	68
	29.19		13154	EV	69
	29.35		19293	EV	70
	29.64		64922	VV	71
	30.00		41446	VV	72
	30.57		75161	VE	73
	30.86		14377	EV	74
	31.05		9157	EV	75
	31.12		11903	EV	76
	31.39		12268	VV	77
	31.58		14996	VV	78
	32.00		28086	VV	79
	32.24		12128	VV	80
	32.54		58849	VE	81
	32.84		7607	EV	82
	33.28		18643	EV	83
	33.87		29797	VV	84
DCB	34.40	0.0456	205355	VE	85
	34.77		18472	EV	86
	35.26		16687	EV	87
	35.47		12726	VV	88
	35.76		5222	VV	89
	36.62		17322	VE	90

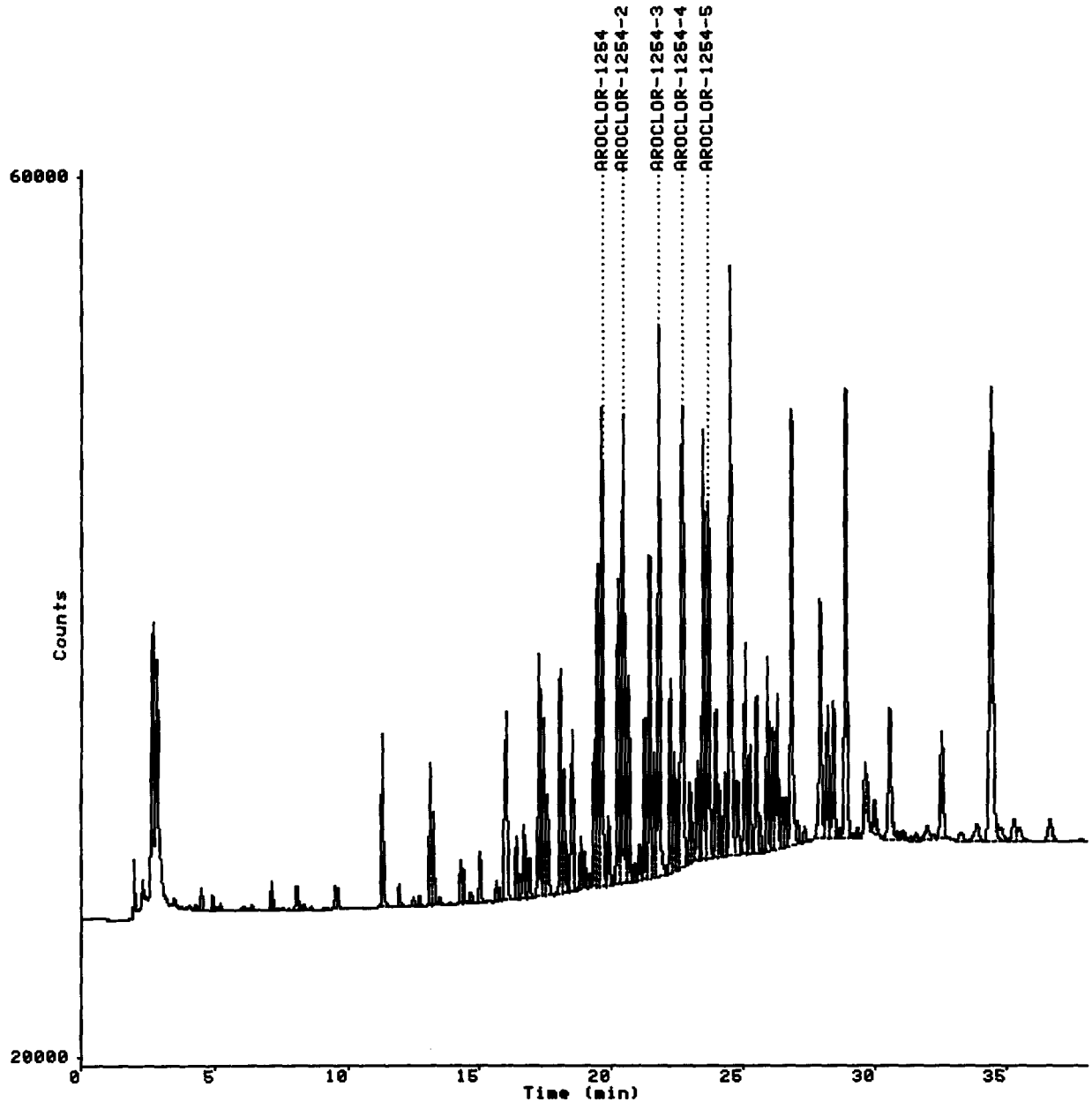
AR1016 average result...0.307
AR1260 average result...0.497

Run Number..... 19 End of Report.

Run Number..... ~~112~~ 19
Sample Name..... 65106 5X
Run Date..... 3-MAY-1997 06:07:38
Raw File..... 5_0502_019
Method Name..... 5_AR1254_0502
Method Type..... Linear

RW 5/8/97

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65106 5X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 5

Entered Conversion Factor..50.0
Entered Sample Amount.....30.0

Run Number..~~112~~ 19 Page 2 5/16/97

PCB ANALYSIS BY GC/ECD

Sample ID: 65106 5X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_019 Analysis Date: 3-MAY-1997 06:07:38

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	4.50		5259	VB	1
	4.91		3267	BV	2
	7.12		6349	VE	3
	8.08		6958	VV	4
	9.53		5100	BV	5
	9.62		3903	VE	6
	11.31		35599	BB	7
	11.94		4117	BE	8
	13.11		28605	BV	9
	13.23		18678	VE	10
	14.27		9074	BV	11
	14.36		7635	VB	12
	14.65		3702	BB	13
	15.00		11318	BB	14
	15.62		4283	BV	15
	15.72		2571	VB	16
	15.99		58387	BB	17
	16.38		14247	BB	18
	16.67		16744	BV	19
	16.87		8843	VB	20
	17.24		57763	BV	21
	17.42		39275	VV	22
	17.55		28070	VB	23
	18.04		49670	VV	24
	18.19		29842	VB	25
	18.51		47103	BB	26
	18.83		11881	BV	27
	18.97		7675	VB	28
	19.20		2816	BV	29
	19.34		30705	VV	30
	19.46		71483	VV	31
AROCLOR-1254	19.62	0.717	123587	VV	32
	19.88		16983	VB	33
	20.25		80643	BV	34
AROCLOR-1254-2	20.44	0.456	112411	VV	35
	20.64		47458	VE	36
	20.88		4596	EV	37
	21.06		8434	VB	38
	21.25		35826	BV	39
	21.44		72314	VV	40
	21.61		27468	VV	41
AROCLOR-1254-3	21.80	0.506	138152	VB	42
	22.23		45190	BV	43
	22.38		27393	VV	44
	22.53		11560	VV	45
AROCLOR-1254-4	22.68	0.551	160129	VV	46
	22.97		17654	VV	47
	23.06		11437	VV	48
	23.26		22890	VB	49
	23.48		95198	BV	50

5/16/97

Add 2-5 " 0.508

235

Run Number..~~112~~ 19 Page 3

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80

Sample ID: 65106 5X
Datafile: 5_0502_019

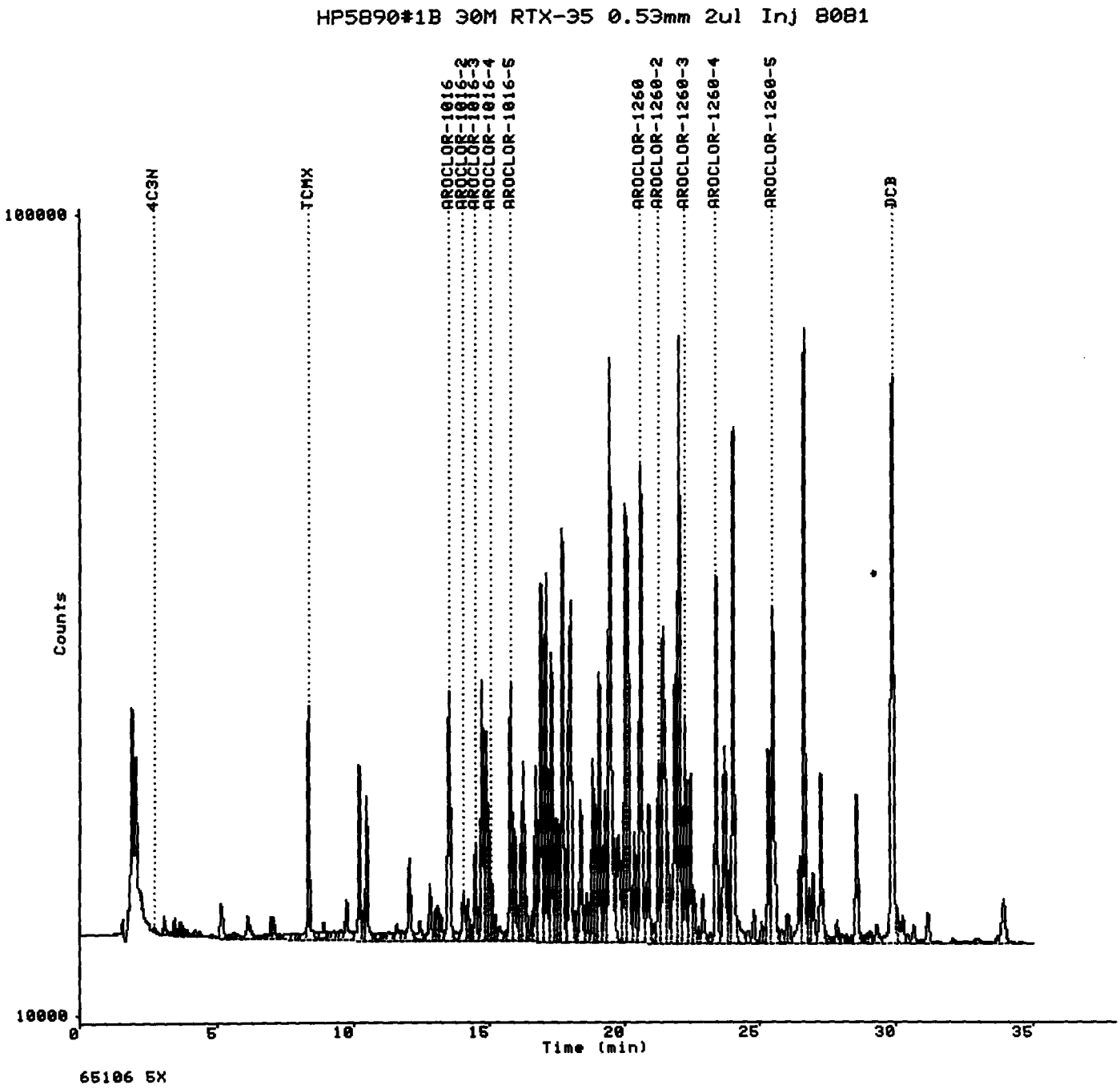
Analysis Date: 3-MAY-1997 06:07:38

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
AROCLOR-1254-5	23.68	0.520	92697	VE	51
	23.95		32471	VV	52
	24.06		14753	VV	53
	24.22		7054	VV	54
	24.31		17790	VV	55
	24.50		156879	VV	56
	24.79		19107	VB	57
	25.07		48129	BV	58
	25.25		23916	VV	59
	25.50		39110	VE	60
	25.65		7372	EB	61
	25.91		43583	BV	62
	26.11		29866	VV	63
	26.28		39403	VV	64
	26.50		12810	VV	65
	26.60		11696	VV	66
	26.83		107518	VE	67
	27.08		5663	EB	68
	27.33		4710	BB	69
	27.93		71167	BV	70
	28.22		36855	VV	71
	28.43		38034	VE	72
	28.72		2765	EV	73
	28.90		122227	VE	74
	29.35		2873	EB	75
	29.64		9846	BB	76
	30.00		10012	BB	77
	30.57		43576	BE	78
	30.86		2893	EV	79
	32.00		7453	BV	80
	32.54		38670	VB	81
	33.28		4302	VB	82
	33.87		9437	BB	83
	34.40		191213	BE	84
	34.77		8574	EV	85
	35.26		9594	VV	86
	35.47		5958	VB	87
	36.62		11141	BE	88

Average result...0.550 UG/G

Run Number..... ~~112~~ 19 End of Report.

Run Number..... 19
Sample Name..... 65106 5X
Run Date..... 3-MAY-1997 06:07:35
Raw File..... 6_0502_019
Method Name..... 6_AR1660_0502
Method Type..... Linear



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 5

Entered Conversion Factor..50.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65106 5X
Datafile: 6_0502_019

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 06:07:35

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	3.07		11612	BE	1
	3.45		9023	BV	2
	3.66		5887	VV	3
	5.12		24212	BE	4
	6.10		21848	VE	5
	6.96		11787	VV	6
	7.04		11977	VE	7
	7.54		7913	VV	8
	8.20		6994	VV	9
TCMX	8.33	0.0109	119153	VE	10
	8.63		5168	EV	11
	8.89		16352	EV	12
	9.25		9178	VV	13
	9.52		8226	VV	14
	9.72		31901	VV	15
	10.19		94785	VV	16
	10.33		5153	VV	17
	10.46		79520	VE	18
	10.89		7636	EV	19
	11.00		5791	VV	20
	11.26		9602	VV	21
	11.58		13292	VV	22
	11.76		9975	VV	23
	12.03		61104	VE	24
	12.42		20892	EB	25
	12.79		37433	BV	26
	12.99		17846	VV	27
	13.08		18159	VV	28
	13.19		14961	VV	29
AROCLOR-1016	13.50	0.166	179766	VE	30
	13.74		11496	EV	31
AROCLOR-1016-2	14.02	0.0344	37085	VV	32
	14.19		24998	VV	33
	14.35		8148	VV	34
AROCLOR-1016-3	14.46	0.174	52995	VV	35
	14.71		160707	VV	36
	14.88		125084	VV	37
	14.97		48499	VV	38
AROCLOR-1016-4	15.06	0.250	29544	VV	39
	15.20		17046	VV	40
	15.36		15602	VV	41
	15.62		6884	VV	42
AROCLOR-1016-5	15.78	0.498	155490	VV	43
	15.91		64870	VV	44
	16.15		48405	VV	45
	16.24		102398	VE	46
	16.35		19981	EV	47
	16.57		16188	VV	48
	16.70		98091	VV	49
	16.89		224093	VV	50

Sample ID: 65106 5X
Datafile: 6_0502_019

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 06:07:35

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	17.08		203013	VV	51
	17.28		165687	VV	52
	17.46		69151	VV	53
	17.56		59182	VV	54
	17.68		241968	VV	55
	17.99		292766	VE	56
	18.15		18165	EV	57
	18.36		91214	VV	58
	18.58		30639	VV	59
	18.80		107179	VV	60
	18.91		67477	VV	61
	19.04		145469	VV	62
	19.25		84628	VV	63
	19.43		428852	VE	64
	19.59		25047	EV	65
	19.74		109284	EV	66
	20.01		254142	VV	67
	20.10		252333	VV	68
	20.34		66790	VV	69
AROCLOR-1260	20.57	0.425	296310	VV	70
	20.86		90945	VE	71
	21.04		12370	EV	72
AROCLOR-1260-2	21.23	0.306	100434	VV	73
	21.39		284831	VV	74
	21.57		60644	VV	75
	21.84		183123	VV	76
	21.98		349768	VV	77
AROCLOR-1260-3	22.21	0.287	131831	VV	78
	22.41		100087	VV	79
	22.55		30335	VV	80
	22.72		11020	VV	81
	22.87		36129	VE	82
	23.15		9283	EV	83
AROCLOR-1260-4	23.37	0.407	206420	VV	84
	23.68		162135	VV	85
	23.83		39339	VV	86
	24.00		299773	VE	87
	24.22		28260	EV	88
	24.54		12561	VV	89
	24.77		23694	VB	90
	25.06		15079	BV	91
	25.17		8074	VV	92
	25.30		107396	VV	93
AROCLOR-1260-5	25.46	0.349	231385	VE	94
	25.79		10304	EV	95
	26.00		21150	VV	96
	26.06		14213	VV	97
	26.45		66124	VV	98
	26.62		338741	VE	99
	26.81		35059	EV	100
	26.95		46903	EV	101

Sample ID: 65106 5X Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_019 Analysis Date: 3-MAY-1997 06:07:35

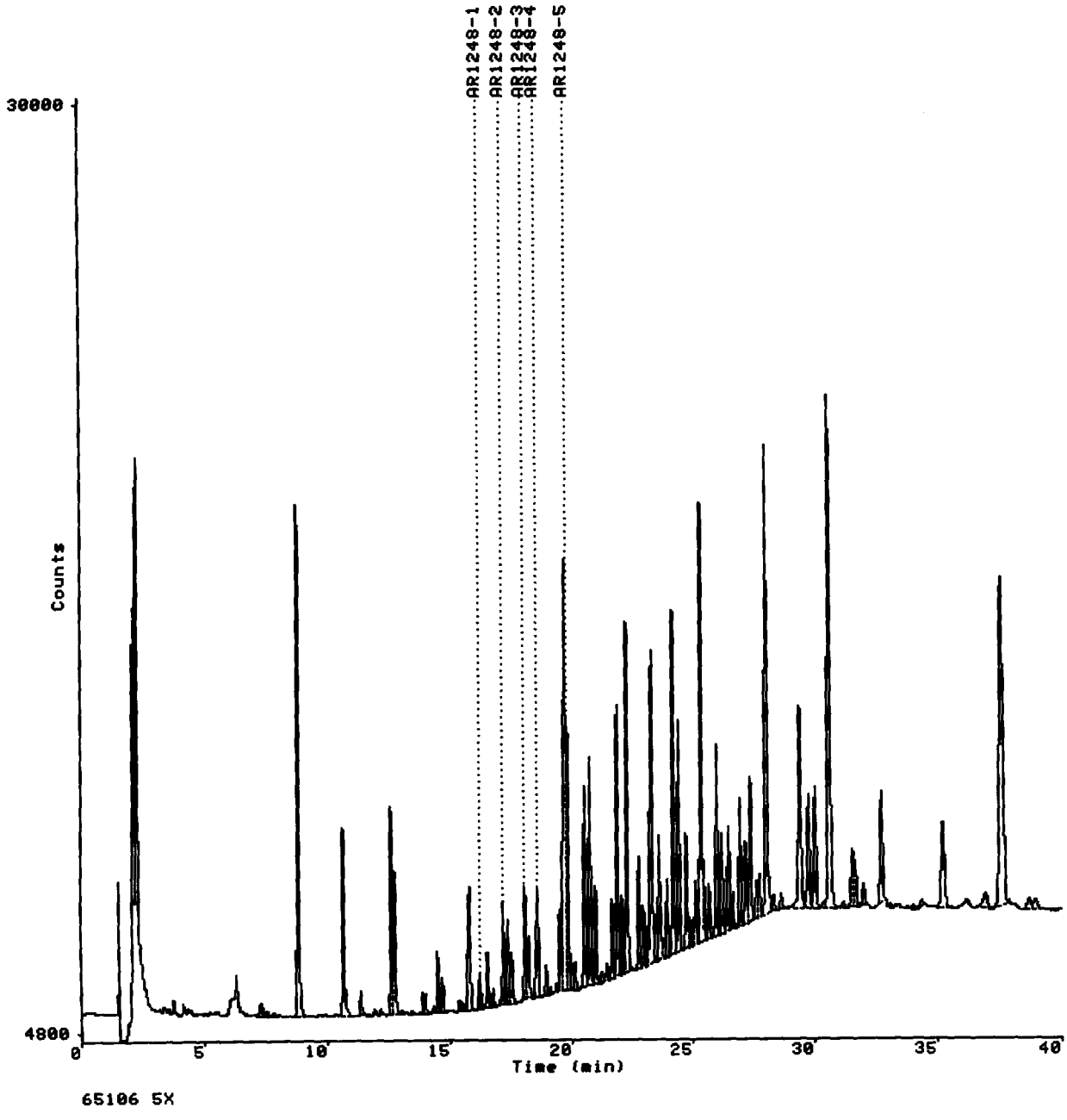
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	27.23		116999	VE	102
	27.41		8676	EV	103
	27.64		5158	EV	104
	27.83		18086	VV	105
	28.01		8208	VV	106
	28.17		6500	VV	107
	28.54		104297	VE	108
	28.82		6323	EV	109
	28.95		7278	EV	110
	29.05		9394	EV	111
	29.28		19102	VV	112
DCB	29.85	0.0457	443194	VE	113
	30.22		44447	EV	114
	30.39		7455	EV	115
	30.63		16508	EV	116
	31.14		27013	VE	117
	32.08		5253	BE	118
	32.94		9931	VV	119
	33.72		6742	VV	120
	33.90		50693	VV	121

AR1016 average result...0.224
AR1260 average result...0.355

Run Number..... 19 End of Report.

Run Number..... 11
Sample Name..... 65106 5X
Run Date..... 6-MAY-1997 02:33:04
Raw File..... 10_0505_011
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 5

Entered Conversion Factor..50.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65106 5X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_011 Analysis Date: 6-MAY-1997 02:33:04

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.25		1262	BV	1
	7.32		1466	VV	2
	7.54		681	VB	3
	8.82		62661	BB	4
	10.66		24455	BB	5
	11.36		2512	BB	6
	11.92		782	BB	7
	12.17		857	BB	8
	12.61		25475	BV	9
	12.75		18515	VB	10
	13.89		2338	BV	11
	13.99		2185	VB	12
	14.34		897	BV	13
	14.51		6090	VB	14
	14.70		4516	BB	15
	15.39		1332	BV	16
	15.51		968	VB	17
	15.81		21435	BB	18
AR1248-1	16.23	0.205	5027	BB	19
	16.55		7319	BV	20
	16.77		2277	VB	21
AR1248-2	17.20	0.392	13533	BV	22
	17.39		10589	VV	23
	17.53		8459	VB	24
AR1248-3	18.09	0.316	14663	BV	25
	18.24		8441	VB	26
AR1248-4	18.61	0.300	19172	BB	27
	18.96		3889	BB	28
	19.14		963	BB	29
	19.38		1050	BV	30
	19.54		10432	VV	31
	19.76		79464	VV	32
AR1248-5	19.85	0.474	32621	VB	33
	20.15		3833	BB	34
	20.56		31986	BV	35
	20.77		30584	VV	36
	21.00		12688	VE	37
	21.26		2096	EV	38
	21.47		3008	VB	39
	21.68		10451	BV	40
	21.90		36126	VV	41
	22.08		9649	VV	42
	22.30		46883	VE	43
	22.78		15215	BV	44
	22.96		8497	VV	45
	23.12		5091	VV	46
	23.32		58682	VB	47
	23.62		18684	BE	48
	23.81		2635	EV	49
	23.95		10636	VV	50

Sample ID: 65106 5X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_011 Analysis Date: 6-MAY-1997 02:33:04

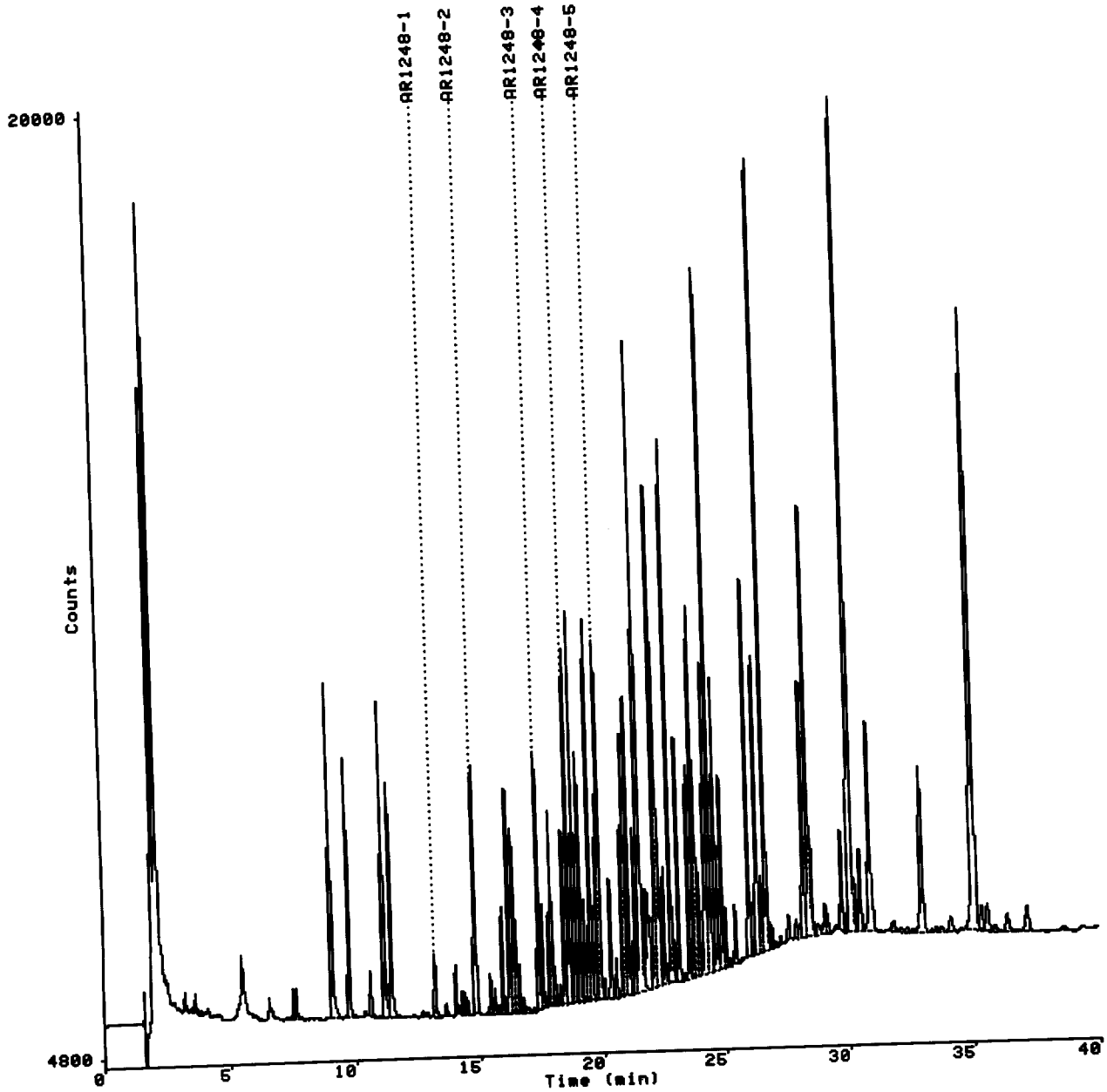
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	24.20		44605	VV	51
	24.42		36193	VE	52
	24.73		15254	VV	53
	24.84		3557	VV	54
	25.02		3427	VV	55
	25.13		7984	VB	56
	25.34		63662	BE	57
	25.45		6100	EV	58
	25.67		8143	VB	59
	25.98		25457	BB	60
	26.19		14270	BV	61
	26.46		16449	VV	62
	26.64		4900	VV	63
	26.94		17170	VV	64
	27.17		11775	VV	65
	27.37		22383	VV	66
	27.61		5805	VV	67
	27.74		6198	VV	68
	28.02		70952	VE	69
	28.33		2700	EB	70
	28.64		2563	BB	71
	29.40		38833	BV	72
	29.63		1167	VV	73
	29.76		19071	VV	74
	30.03		21302	VB	75
	30.39		636	BV	76
	30.61		93774	VB	77
	31.20		929	BB	78
	31.56		11544	BV	79
	31.67		7410	VE	80
	32.01		4253	VB	81
	32.74		21524	BB	82
	33.10		608	BB	83
	34.03		650	BB	84
	34.37		1249	BB	85
	35.24		20634	BB	86
	36.94		4068	BB	87
	37.61		91141	BE	88
	38.70		2980	BV	89
	38.95		3211	VB	90
	40.43		4973	BB	91

Average result...0.337 UG/G

Run Number..... 11 End of Report.

Run Number..... 11
Sample Name..... 65106 5X
Run Date..... 6-MAY-1997 02:33:06
Raw File..... 11_0505_011
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



65106 5X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 5

Entered Conversion Factor..50.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65106 5X
Datafile: 11_0505_011

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 6-MAY-1997 02:33:06

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	7.53		2032	BV	1
	7.62		2054	VB	2
	9.06		24680	BB	3
	9.76		16543	VB	4
	10.62		3047	BB	5
	11.16		23098	BV	6
	11.45		17059	VB	7
AR1248-1	13.20	0.199	5353	BB	8
	13.64		913	BB	9
	14.06		3239	BB	10
	14.29		1487	BV	11
	14.38		1412	VV	12
	14.51		1026	VB	13
AR1248-2	14.86	0.318	23642	BB	14
	15.45		2780	VV	15
	15.54		698	VV	16
	15.63		1686	VV	17
	15.81		536	VV	18
	15.95		7334	VV	19
	16.21		15820	VV	20
	16.39		15833	VV	21
	16.50		6250	VV	22
	16.62		3255	VV	23
	16.79		1064	VV	24
	16.92		696	VV	25
AR1248-3	17.41	0.337	20482	BV	26
	17.57		7465	VE	27
	17.83		6257	VV	28
	17.93		13802	VE	29
	18.07		2300	EB	30
	18.30		1297	BV	31
	18.44		12198	VV	32
AR1248-4	18.65	0.364	28288	VV	33
	18.88		28033	VV	34
	19.10		18345	VV	35
	19.28		7683	VV	36
	19.42		5334	VV	37
	19.54		29063	VV	38
	19.81		14630	VV	39
AR1248-5	19.91	0.380	27796	VE	40
	20.07		1182	EB	41
	20.33		9348	BV	42
	20.56		2731	VB	43
	20.82		11970	BV	44
	20.91		19890	VV	45
	21.08		21478	VB	46
	21.33		11617	BV	47
	21.52		58148	VE	48
	21.71		3840	EV	49
	21.81		15210	EV	50

Sample ID: 65106 5X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_011 Analysis Date: 6-MAY-1997 02:33:06

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	22.16		39293	VV	51
	22.26		31067	VV	52
	22.51		8560	VB	53
	22.78		40736	BE	54
	22.88		2510	EV	55
	23.10		18240	VB	56
	23.33		595	BV	57
	23.53		15361	VV	58
	23.73		29041	VV	59
	23.82		13258	VV	60
	23.93		7602	VV	61
	24.22		29190	VV	62
	24.38		54771	VV	63
	24.63		22522	VV	64
	24.86		15302	VV	65
	25.01		4417	VE	66
	25.15		511	EB	67
	25.40		4871	BB	68
	25.95		30468	BB	69
	26.30		28708	BV	70
	26.48		5682	VV	71
	26.63		60649	VE	72
	26.76		1234	EV	73
	26.89		1671	EV	74
	27.03		737	VB	75
	27.25		741	BB	76
	27.57		2281	BB	77
	27.88		2011	BV	78
	28.01		1305	VV	79
	28.18		22681	VV	80
	28.39		41251	VE	81
	28.50		5237	EV	82
	28.76		1651	VV	83
	29.07		3471	VV	84
	29.15		1554	VB	85
	29.74		9109	BB	86
	30.09		86549	BE	87
	30.26		3595	EV	88
	30.49		8200	VV	89
	30.89		23705	VB	90
	31.82		1363	BV	91
	32.11		601	VV	92
	32.37		561	VB	93
	32.97		20650	VB	94
	33.54		586	VV	95
	33.74		711	VB	96
	34.13		2113	BB	97
	35.05		86307	BE	98
	35.35		3139	EV	99
	35.60		3828	EV	100
	35.90		732	VB	101

Sample ID: 65106 5X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_011 Analysis Date: 6-MAY-1997 02:33:06

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	36.40		2605	BB	102
	37.18		3872	BB	103
	41.28		1073	BV	104
	41.58		10235	VB	105

Average result...0.320 UG/G

Run Number..... 11 End of Report.

TEST CODE :SPCB 1 JOB NUMBER :9700.860
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

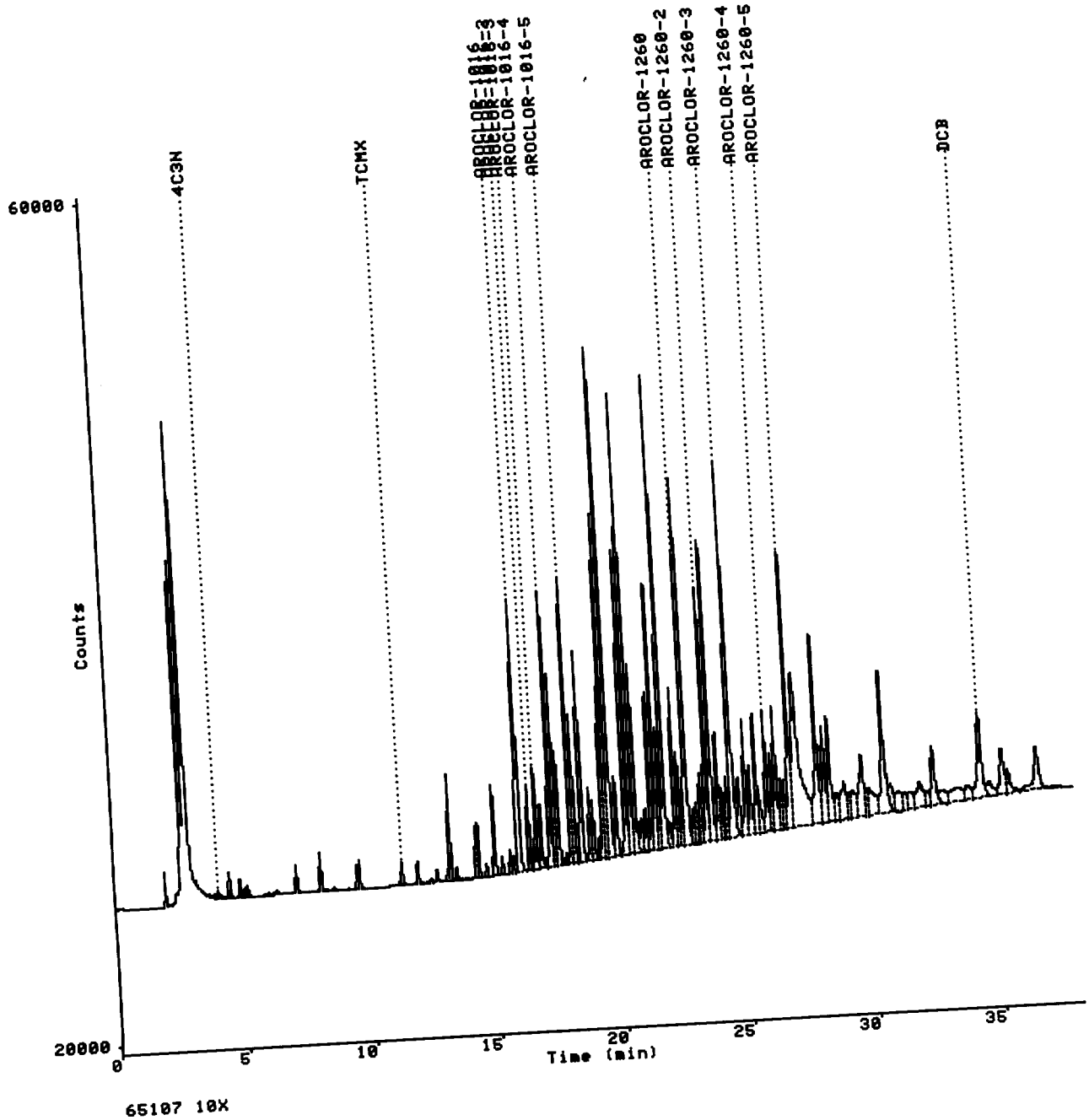
CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 54 %
TEST NAME : 8081 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-97-65107 MATRIX : SOLID
SAMPLE ID CLIENT: Q202

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.37
PCB-1254	1.7		0.37
PCB-1221	ND		0.74
PCB-1232	ND		0.37
PCB-1248	1.6		0.37
PCB-1260	0.76		0.37
PCB-1016	ND		0.37

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Run Number..... 20
Sample Name..... 65107 10X
Run Date..... 3-MAY-1997 06:50:00
Raw File..... 5_0502_020
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



249

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65107 10X
Datafile: 5_0502_020

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 06:50:00

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	4.50		6727	VB	1
	7.13		6705	VE	2
	8.10		9835	BE	3
	9.53		5140	BV	4
	9.62		5678	VB	5
TCMX	11.31	0.00116	5247	VE	6
	13.23		22468	VV	7
	14.27		11310	BV	8
	14.36		12636	VB	9
	15.00		21033	BB	10
	15.62		5140	BV	11
AROCLOR-1016	16.00	0.502	86053	VV	12
AROCLOR-1016-2	16.39	0.248	21940	VV	13
AROCLOR-1016-3	16.67	0.540	25765	VV	14
	16.88		15735	VV	15
AROCLOR-1016-4	17.25	1.57	69764	VV	16
	17.42		45019	VV	17
	17.56		34950	VV	18
AROCLOR-1016-5	18.05	1.40	67244	VV	19
	18.19		38435	VV	20
	18.51		66455	VV	21
	18.84		18759	VV	22
	18.97		15225	VV	23
	19.20		5571	VV	24
	19.34		38416	VV	25
	19.46		81635	VV	26
	19.63		140497	VV	27
	19.89		22953	VV	28
	20.25		85817	VV	29
	20.44		118225	VV	30
	20.64		50409	VE	31
	20.88		12076	EV	32
	21.07		12735	EV	33
	21.26		40175	VV	34
	21.44		65594	VV	35
	21.61		28819	VV	36
	21.80		123678	VE	37
	22.01		8027	EV	38
	22.24		43127	VV	39
	22.39		24207	VV	40
	22.53		11198	VV	41
AROCLOR-1260	22.70	1.18	133755	VE	42
	22.97		9318	EV	43
	23.07		11041	EV	44
	23.14		5156	EV	45
	23.26		21300	VV	46
AROCLOR-1260-2	23.48	0.462	63611	VV	47
	23.68		89326	VV	48
	23.96		29428	VV	49
	24.06		13037	VV	50

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Sample ID: 65107 10X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_020 Analysis Date: 3-MAY-1997 06:50:00

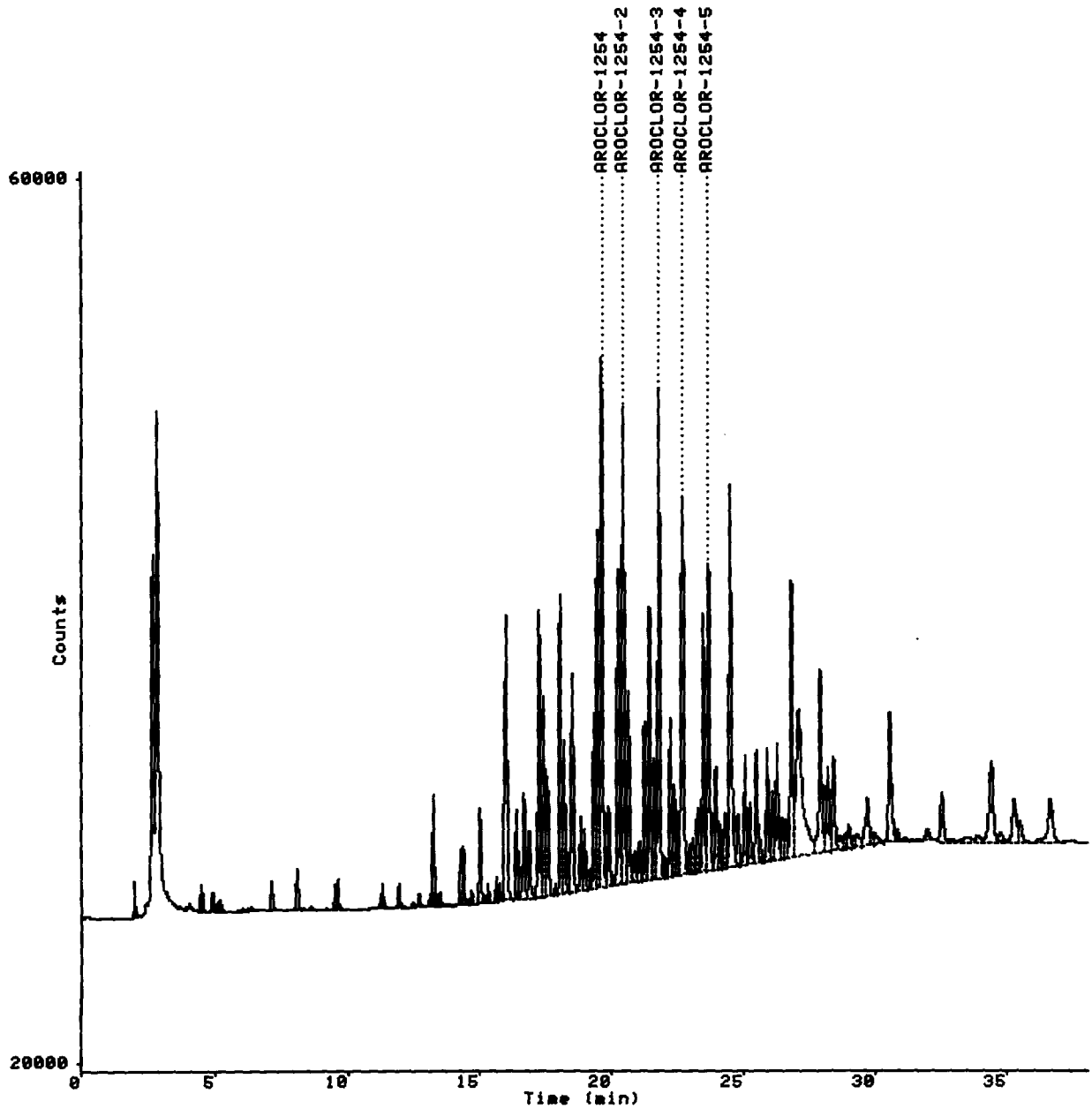
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	24.22		10937	VV	51
	24.31		16209	VV	52
AROCLOR-1260-3	24.50	0.721	115673	VE	53
	24.80		18706	EV	54
	25.07		35118	VV	55
	25.25		21695	VV	56
	25.50		36602	VV	57
	25.65		10974	VV	58
AROCLOR-1260-4	25.91	0.387	35985	VV	59
	26.12		23560	VV	60
	26.29		37720	VV	61
	26.50		16944	VV	62
	26.60		15985	VV	63
AROCLOR-1260-5	26.84	0.386	80628	VV	64
	27.12		147635	VV	65
	27.93		79488	VV	66
	28.22		37385	VV	67
	28.44		42716	VV	68
	28.73		14936	VV	69
	29.01		27091	VV	70
	29.22		9632	VV	71
	29.34		17938	VV	72
	29.73		39702	VV	73
	29.88		7130	VV	74
	30.00		26154	VV	75
	30.58		69848	VE	76
	30.86		14699	EV	77
	31.14		15872	EV	78
	31.38		9043	VV	79
	31.60		13359	VV	80
	32.01		23818	VV	81
	32.24		8546	VV	82
	32.54		32493	VE	83
	32.88		13772	EV	84
	33.51		23676	VV	85
	33.88		13134	VV	86
DCB	34.40	0.0165	52944	VE	87
	34.76		12098	EV	88
	35.27		26975	VV	89
	35.48		15580	VV	90
	36.63		32609	VE	91

AR1016 average result...0.851
AR1260 average result...0.628

Run Number..... 20 End of Report.

Run Number..... ~~113~~ 20
Sample Name..... 65107 10X
Run Date..... 3-MAY-1997 06:50:00
Raw File..... 5_0502_020
Method Name..... 5_AR1254_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65107 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

Run Number..~~113~~ 20 Page 2

PCB ANALYSIS BY GC/ECD

Sample ID: 65107 10X
Datafile: 5_0502_020

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 06:50:00

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	4.50		6514	VB	1
	4.92		4347	VV	2
	5.22		2511	VB	3
	7.13		6375	BE	4
	8.10		9655	BE	5
	9.53		5228	BV	6
	9.62		5599	VB	7
	11.31		5211	VE	8
	11.94		4560	VE	9
	12.70		2757	VB	10
	13.12		2633	BV	11
	13.23		22378	VV	12
	13.48		3241	VE	13
	14.27		11337	BV	14
	14.36		12664	VV	15
	14.67		3223	VB	16
	15.00		21017	BB	17
	15.31		3947	BB	18
	15.62		5094	BV	19
	15.73		3578	VB	20
	16.00		85767	BV	21
	16.39		21820	VV	22
	16.67		25661	VV	23
	16.88		15629	VB	24
	17.25		69649	BV	25
	17.42		44599	VV	26
	17.56		34707	VB	27
	18.05		66606	VV	28
	18.19		37653	VV	29
	18.51		65011	VV	30
	18.84		17345	VV	31
	18.97		13908	VV	32
	19.20		4652	VV	33
	19.34		37393	VV	34
	19.46		80342	VV	35
AROCLOR-1254	19.63	1.62	138208	VV	36
	19.89		20299	VV	37
	20.25		82677	VV	38
AROCLOR-1254-2	20.44	0.945	115918	VV	39
	20.64		47283	VE	40
	20.88		9707	EV	41
	21.07		10224	VV	42
	21.26		37303	VV	43
	21.44		62703	VV	44
	21.61		26446	VV	45
AROCLOR-1254-3	21.80	0.866	119459	VE	46
	22.01		5301	EV	47
	22.24		39087	VV	48
	22.39		21395	VV	49
	22.53		9567	VV	50

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Run Number..~~113~~ 2 Page 3

Sample ID: 65107 10X
Datafile: 5_0502_020

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 06:50:00

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
AROCLOR-1254-4	22.70	0.858	127576	VE	51
	22.97		6311	EV	52
	23.07		8259	EV	53
	23.14		4429	EV	54
	23.26		17099	VV	55
	23.48		58816	VV	56
AROCLOR-1254-5	23.68	0.923	82751	VV	57
	23.96		24919	VV	58
	24.06		10500	VV	59
	24.22		8395	VV	60
	24.31		12602	VV	61
	24.50		106373	VE	62
	24.80		13947	EV	63
	25.07		27758	VV	64
	25.25		15572	VV	65
	25.50		30723	VE	66
	25.65		4989	EV	67
	25.91		28048	VV	68
	26.12		17954	VV	69
	26.29		30841	VV	70
	26.50		11949	VV	71
	26.60		10873	VV	72
	26.84		72103	VV	73
	27.12		120580	VV	74
	27.93		63527	VV	75
	28.22		28337	VV	76
	28.44		31495	VE	77
	28.73		6549	EV	78
	28.91		4392	EV	79
	29.01		9194	VV	80
	29.22		4247	VV	81
	29.34		7393	VV	82
	29.73		23223	VV	83
	29.88		3225	VV	84
	30.00		7590	VV	85
	30.58		47039	VE	86
	30.86		4617	EV	87
	32.01		4470	BB	88
	32.54		17631	BE	89
	33.51		4607	VV	90
	33.88		3783	VV	91
	34.40		40711	VE	92
	34.76		5404	EV	93
	35.27		21013	VV	94
	35.48		9642	VB	95
	36.63		26910	BB	96

pd 6/97

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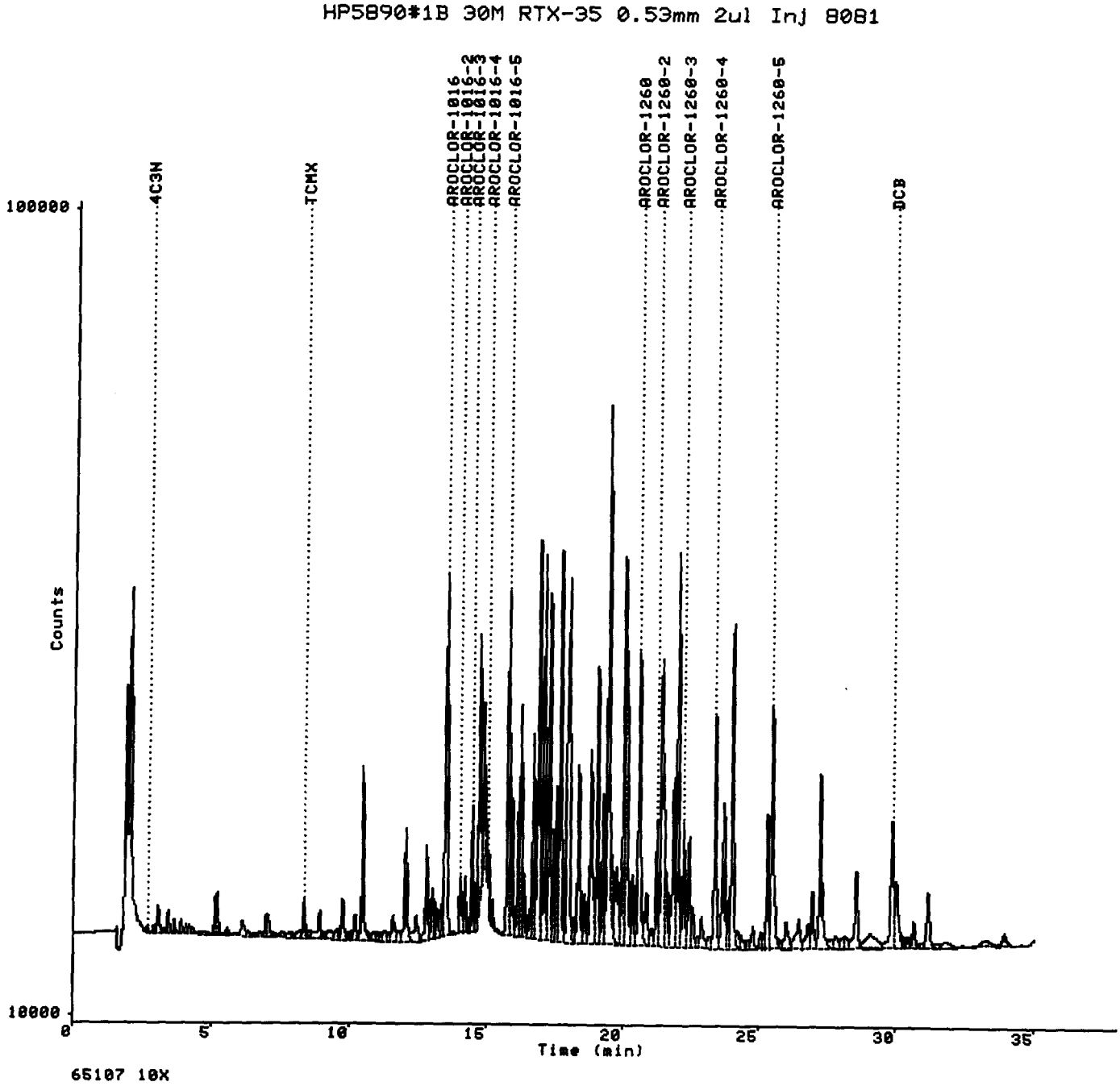
Average result...1.04 UG/G

Run Number..... ~~113~~ 2 End of Report.

Run Number..... 20
Sample Name..... 65107 10X
Run Date..... 3-MAY-1997 06:49:57
Raw File..... 6_0502_020
Method Name..... 6_AR1660_0502
Method Type..... Linear



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65107 10X
Datafile: 6_0502_020

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 06:49:57

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	3.08		17011	VE	1
	3.45		11784	VV	2
	3.66		6190	VV	3
	3.90		7601	VV	4
	4.20		5752	VV	5
	5.13		16681	VV	6
	5.20		21420	VE	7
	5.57		5334	EV	8
	6.10		14577	VV	9
	6.32		5390	VV	10
	6.96		12784	VV	11
	7.05		11910	VE	12
	7.55		7150	VV	13
	7.80		5120	VV	14
	8.20		7533	VV	15
	8.33		22091	VE	16
TCMX	8.52	-0.00358	6771	EV	17
	8.90		23507	VV	18
	9.26		13032	VV	19
	9.52		9619	VV	20
	9.73		28058	VE	21
	10.09		6077	EV	22
	10.20		15148	VV	23
	10.46		94789	VE	24
	10.77		5178	EV	25
	10.90		7278	EV	26
	11.01		6697	EV	27
	11.16		5766	VV	28
	11.26		10927	VV	29
	11.45		5255	VV	30
	11.58		20418	VV	31
	11.76		10240	VV	32
	12.04		84109	VE	33
	12.42		30173	EB	34
	12.79		58519	BV	35
	13.00		29147	VV	36
	13.09		18610	VV	37
	13.20		15885	VV	38
	13.38		13930	VV	39
	13.51		240625	VE	40
AROCLOR-1016	14.03	0.506	33212	BV	41
AROCLOR-1016-2	14.19	0.0431	30485	VV	42
	14.35		6652	VV	43
	14.47		61204	VB	44
AROCLOR-1016-3	14.72	0.427	144372	BV	45
	14.88		68740	VB	46
	15.07		15639	BB	47
AROCLOR-1016-4	15.21	0.172	12905	BB	48
	15.78		203084	BV	49
AROCLOR-1016-5	15.92	1.36	71063	VV	50

Sample ID: 65107 10X
Datafile: 6_0502_020

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 06:49:57

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	16.15		60812	VV	51
	16.24		125471	VV	52
	16.36		29399	VV	53
	16.57		15869	VV	54
	16.70		108860	VV	55
	16.90		252763	VV	56
	17.09		208090	VV	57
	17.29		194943	VV	58
	17.46		60136	VV	59
	17.57		80098	VV	60
	17.69		225951	VB	61
	18.00		293037	BE	62
	18.15		16085	EV	63
	18.36		111992	VV	64
	18.58		30193	VV	65
	18.81		142709	VV	66
	19.04		154060	VV	67
	19.26		82036	VV	68
	19.43		360796	VE	69
	19.59		34044	EV	70
	19.76		81461	EV	71
	20.01		239078	VV	72
	20.10		186526	VV	73
	20.34		42784	VV	74
AROCLOR-1260	20.58	0.501	194097	VE	75
	20.86		43422	EV	76
	21.05		12569	VV	77
AROCLOR-1260-2	21.23	0.403	72142	VV	78
	21.40		243534	VV	79
	21.58		41921	VV	80
	21.85		117662	VV	81
	21.99		228704	VV	82
AROCLOR-1260-3	22.21	0.272	75969	VV	83
	22.41		66439	VV	84
	22.56		24658	VV	85
	22.73		8560	VV	86
	22.88		26876	VV	87
	23.19		14292	VV	88
AROCLOR-1260-4	23.37	0.484	133832	VV	89
	23.69		117943	VV	90
	23.83		25491	VV	91
	24.00		188981	VE	92
	24.22		14559	EV	93
	24.34		12232	EV	94
	24.52		5349	VV	95
	24.60		6497	VV	96
	24.77		17762	VB	97
	25.06		14966	BV	98
	25.17		7616	VV	99
	25.30		77348	VV	100
AROCLOR-1260-5	25.47	0.500	171366	VE	101

Sample ID: 65107 10X Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_020 Analysis Date: 3-MAY-1997 06:49:57

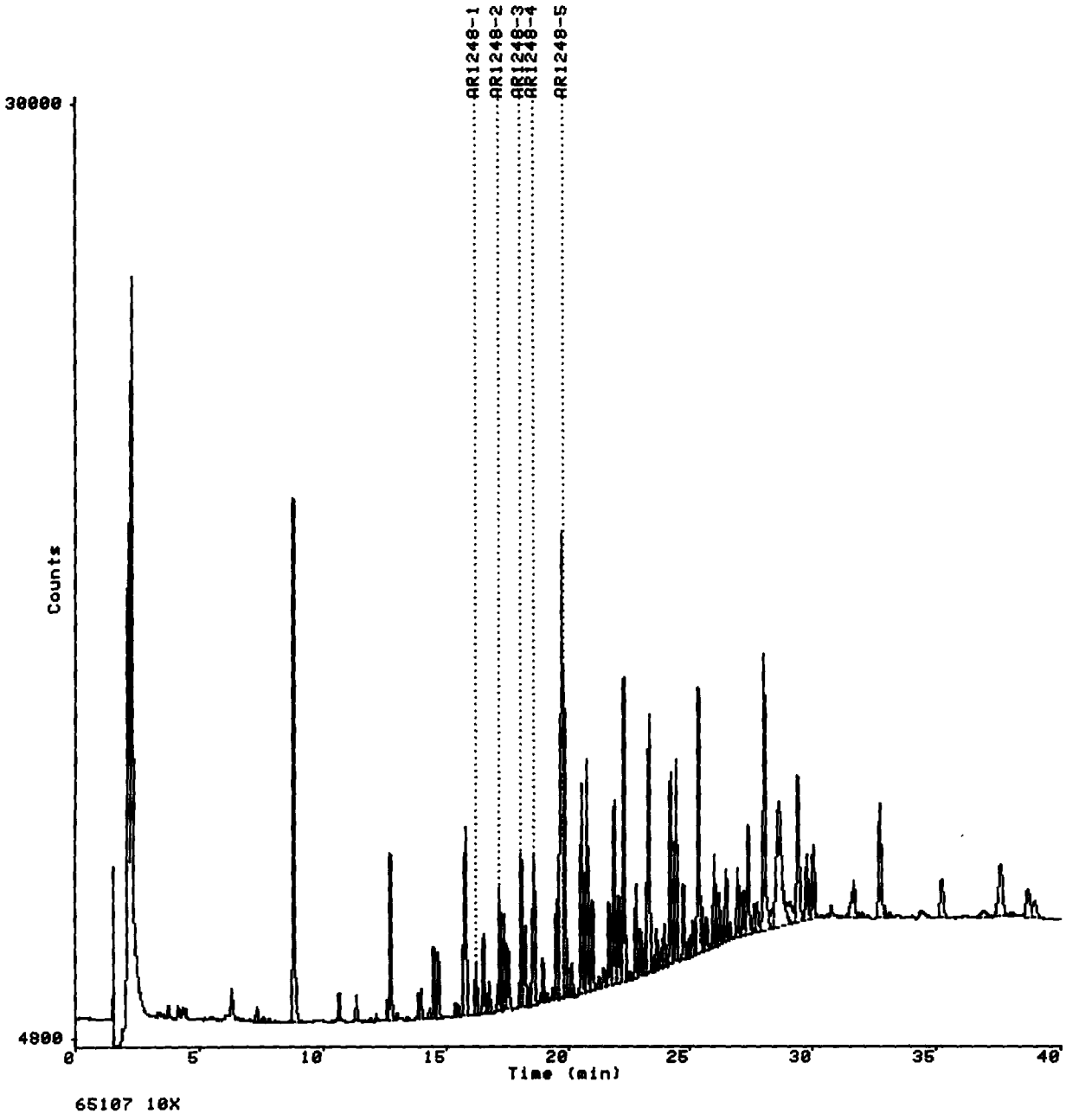
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.81		7894	EV	102
	26.00		30636	EV	103
	26.46		40431	VV	104
	26.79		28524	VV	105
	26.95		38582	VV	106
	27.24		133405	VE	107
	27.68		11699	EV	108
	27.82		13236	EV	109
	28.06		11548	EV	110
	28.16		14336	VV	111
	28.55		66319	VE	112
	29.06		49924	EV	113
DCB	29.85	0.0167	108471	VV	114
	30.01		64007	VE	115
	30.22		5916	EV	116
	30.40		9539	EV	117
	30.63		21957	VE	118
	30.93		5293	EV	119
	31.15		48684	VE	120
	31.38		7310	EV	121
	31.79		13955	EB	122
	33.22		20497	BV	123
	33.91		16164	VB	124

AR1016 average result...0.501
AR1260 average result...0.432

Run Number..... 20 End of Report.

Run Number..... 12
Sample Name..... 65107 10X
Run Date..... 6-MAY-1997 03:19:19
Raw File..... 10_0505_012
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65107 10X
Datafile: 10_0505_012

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 03:19:19

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	7.33		1696	VV	1
	7.58		637	VB	2
	8.82		64790	BB	3
	10.66		3402	BB	4
	11.37		2695	BB	5
	12.18		871	BB	6
	12.62		2233	BV	7
	12.75		21014	VB	8
	13.03		614	BB	9
	13.90		2993	VV	10
	14.00		3673	VB	11
	14.34		1298	BV	12
	14.51		7228	VV	13
	14.70		8514	VB	14
	15.40		1609	BV	15
	15.52		1477	VV	16
	15.82		31899	VB	17
AR1248-1	16.24	0.592	7056	BB	18
	16.55		10815	BV	19
	16.78		3921	VB	20
AR1248-2	17.20	0.972	16675	BV	21
	17.40		12197	VV	22
	17.54		10569	VB	23
AR1248-3	18.09	0.889	20371	BV	24
	18.25		11630	VB	25
AR1248-4	18.62	0.833	26250	BB	26
	18.97		5624	BB	27
	19.15		1158	BV	28
	19.39		1872	VV	29
	19.54		12703	VV	30
	19.76		86772	VV	31
AR1248-5	19.86	1.06	36349	VB	32
	20.15		4715	BB	33
	20.56		32774	BV	34
	20.78		30693	VV	35
	21.01		11703	VV	36
	21.28		2024	VV	37
	21.48		3161	VV	38
	21.69		12426	VV	39
	21.90		27694	VV	40
	22.09		12671	VV	41
	22.30		41747	VE	42
	22.56		1189	EB	43
	22.79		12940	BV	44
	22.97		6348	VV	45
	23.13		3817	VV	46
	23.33		45585	VB	47
	23.63		5509	BV	48
	23.72		1708	VV	49
	23.82		2551	VV	50

Sample ID: 65107 10X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_012 Analysis Date: 6-MAY-1997 03:19:19

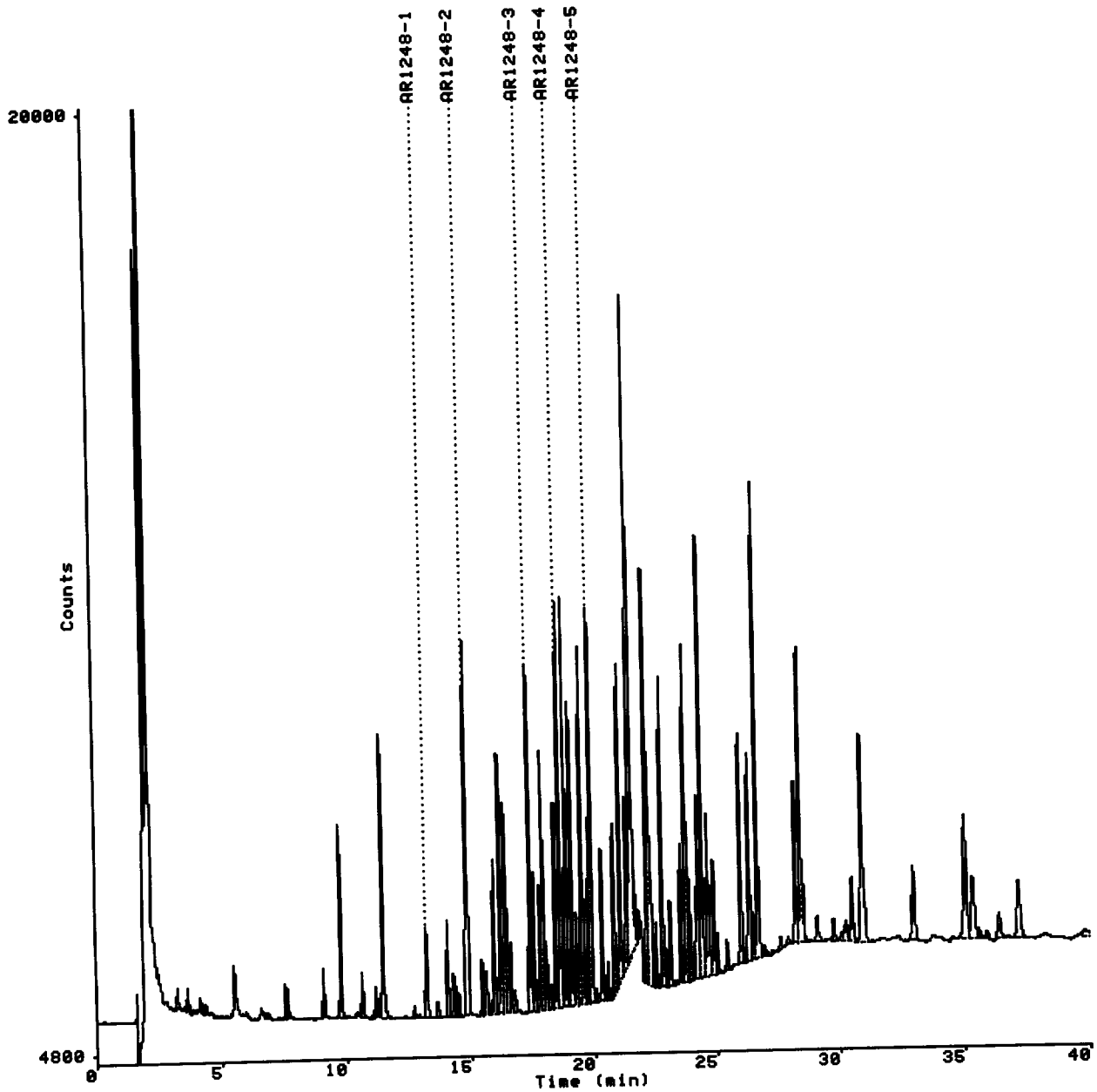
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	23.96		6197	VV	51
	24.20		24657	VV	52
	24.43		30563	VB	53
	24.73		10179	BE	54
	24.85		1397	EB	55
	25.03		2808	BV	56
	25.13		4337	VV	57
	25.34		39318	VE	58
	25.45		4064	EB	59
	25.68		4994	BB	60
	25.99		12522	BB	61
	26.20		7338	BV	62
	26.47		11239	VV	63
	26.65		2394	VB	64
	26.94		9434	BV	65
	27.17		6480	VV	66
	27.38		16792	VV	67
	27.62		4607	VV	68
	27.75		4836	VV	69
	28.03		45956	VE	70
	28.35		4088	EV	71
	28.62		53512	VE	72
	29.08		7692	EV	73
	29.40		29322	VE	74
	29.62		939	EV	75
	29.77		11304	VV	76
	30.04		13488	VB	77
	30.77		1833	VB	78
	31.68		9733	BE	79
	31.86		689	EV	80
	32.02		882	EV	81
	32.75		24412	BE	82
	32.91		1166	EV	83
	33.11		925	EB	84
	34.39		966	BB	85
	35.24		9285	BB	86
	36.93		2629	BB	87
	37.61		16055	BE	88
	38.06		1010	EB	89
	38.70		8210	BV	90
	38.96		4700	VB	91
	40.44		8558	BB	92

Average result...0.869 UG/G

Run Number..... 12 End of Report.

Run Number..... 12
Sample Name..... 65107 10X
Run Date..... 6-MAY-1997 03:19:20
Raw File..... 11_0505_012
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



65107 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65107 10X
Datafile: 11_0505_012

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 6-MAY-1997 03:19:20

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	7.54		2095	BV	1
	7.63		1927	VB	2
	9.07		3203	BB	3
	9.76		11653	BB	4
	10.63		3117	BB	5
	11.18		1866	BB	6
	11.46		19875	BB	7
	12.71		734	BB	8
AR1248-1	13.21	0.601	7728	BB	9
	13.65		1348	BB	10
	14.07		6595	BV	11
	14.30		3035	VV	12
	14.38		1791	VV	13
	14.52		1524	VB	14
AR1248-2	14.87	0.964	34964	BB	15
	15.45		3869	BV	16
	15.54		939	VV	17
	15.64		3051	VV	18
	15.82		822	VV	19
	15.95		10588	VB	20
	16.21		18530	BV	21
	16.40		19272	VV	22
	16.51		6866	VV	23
	16.62		4605	VB	24
	16.79		1411	BB	25
AR1248-3	17.42	0.906	26961	BV	26
	17.58		9703	VE	27
	17.84		8553	VV	28
	17.94		18265	VV	29
	18.08		4578	VB	30
	18.30		1510	BV	31
	18.45		14370	VV	32
AR1248-4	18.66	0.849	32780	VV	33
	18.88		29288	VV	34
	19.11		22185	VV	35
	19.29		6858	VV	36
	19.42		6152	VV	37
	19.54		26543	VV	38
	19.82		12774	VV	39
AR1248-5	19.92	0.818	29862	VE	40
	20.08		868	EB	41
	20.33		11823	BV	42
	20.57		2756	VB	43
	20.82		13351	BV	44
	20.91		3855	VV	45
	21.09		22908	VV	46
	21.34		13804	VV	47
	21.52		65624	VE	48
	21.70		2011	EB	49
	21.83		945	BB	50

Sample ID: 65107 10X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_012 Analysis Date: 6-MAY-1997 03:19:20

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	22.16		32502	BV	51
	22.27		23311	VV	52
	22.52		4348	VB	53
	22.78		23659	BE	54
	22.88		2196	EV	55
	23.11		6658	VB	56
	23.54		10115	VV	57
	23.74		26204	VV	58
	23.82		9547	VV	59
	23.94		4762	VV	60
	24.23		17295	VV	61
	24.39		35590	VV	62
	24.63		15094	VV	63
	24.87		9436	VV	64
	25.02		2990	VE	65
	25.40		2306	BB	66
	25.96		18219	BB	67
	26.31		18673	BV	68
	26.48		3439	VV	69
	26.64		37391	VE	70
	26.89		820	EV	71
	27.58		1046	BB	72
	27.89		666	BB	73
	28.19		14351	BV	74
	28.40		27850	VE	75
	28.51		2663	EB	76
	29.07		2592	BB	77
	29.75		1811	BB	78
	30.11		691	BV	79
	30.26		2139	VV	80
	30.49		6095	VV	81
	30.89		24073	VB	82
	32.97		8463	BB	83
	35.05		16986	BV	84
	35.36		9365	VE	85
	35.58		987	EB	86
	35.91		801	BB	87
	36.40		3748	BB	88
	37.19		8891	BB	89
	39.84		1302	BB	90
	41.58		2215	BB	91

Average result...0.828 UG/G

Run Number..... 12 End of Report.

TEST CODE :SPCB 1 JOB NUMBER :9700.860
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 64 %
TEST NAME : 8081 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-97-65108 MATRIX : SOLID
SAMPLE ID CLIENT: Q203

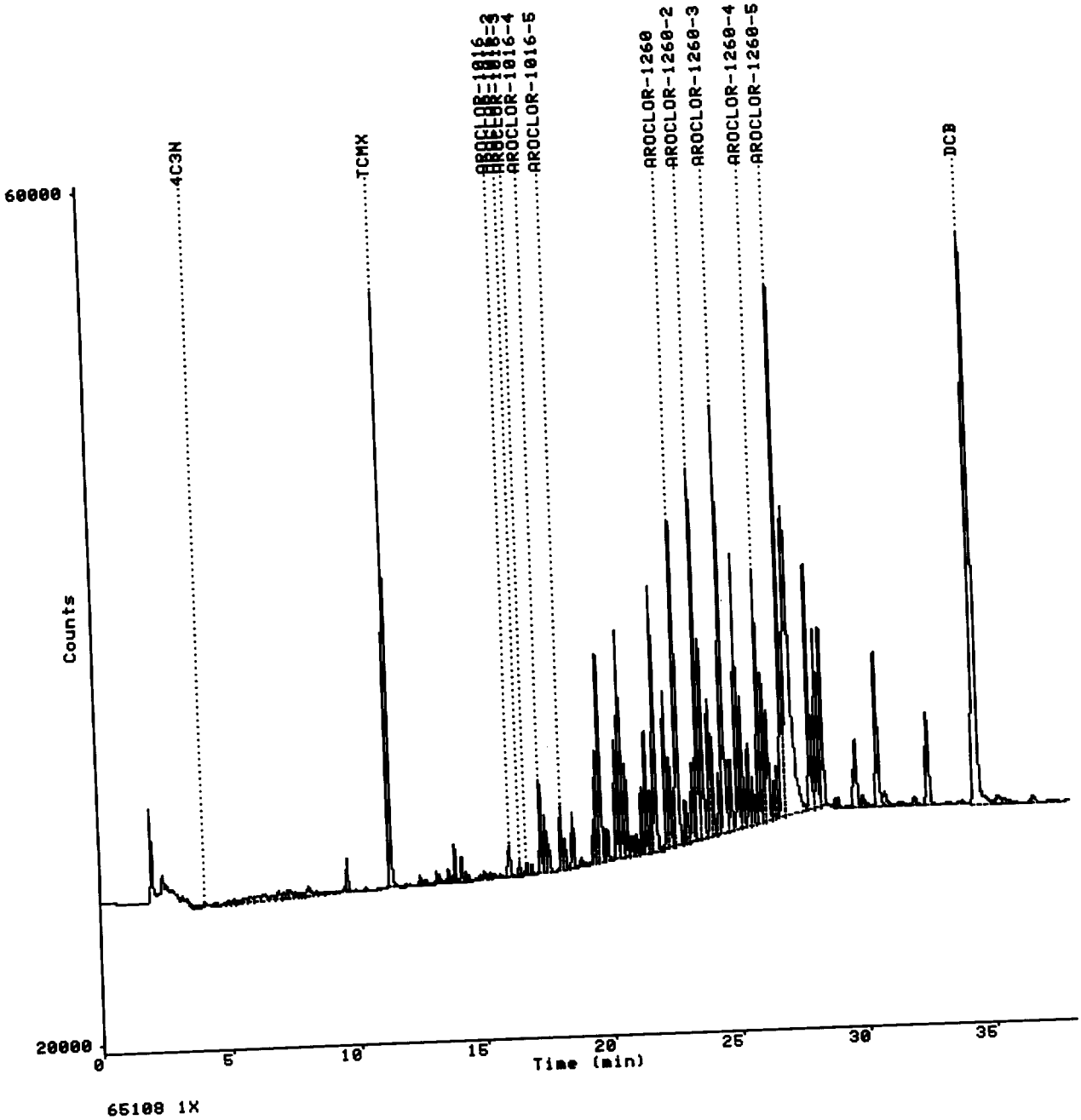
PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.031
PCB-1254	0.088		0.031
PCB-1221	ND		0.062
PCB-1232	ND		0.031
PCB-1248	ND		0.031
PCB-1260	0.11		0.031
PCB-1016	ND		0.031

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Run Number..... 21
Sample Name..... 65108 1X
Run Date..... 3-MAY-1997 07:32:23
Raw File..... 5_0502_021
Method Name..... 5_AR1660_0502
Method Type..... Linear

Confirmation Chromatogram (Channel 6) lost on data system AH 5/12/97.

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65108 1X
Datafile: 5_0502_021

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 07:32:23

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	6.37		5459	VV	1
	8.11		5299	VV	2
	9.63		7335	VE	3
TCMX	11.32	0.00800	122625	BE	4
	13.84		8105	VE	5
	14.11		5512	VV	6
AROCLOR-1016	16.00	-0.00416	10705	BE	7
AROCLOR-1016-4	17.25	0.0420	23442	BV	8
	17.43		13120	VV	9
	17.55		8010	VE	10
AROCLOR-1016-5	18.05	0.0226	15137	BV	11
	18.20		7738	VB	12
	18.52		15693	BB	13
	19.35		8978	VV	14
	19.47		25997	VV	15
	19.64		55425	VV	16
	19.89		7731	VB	17
	20.26		34371	BV	18
	20.44		56648	VV	19
	20.65		22301	VV	20
	20.86		6001	VV	21
	21.01		7915	VB	22
	21.26		15357	BV	23
	21.45		29152	VV	24
	21.62		14148	VV	25
	21.81		72911	VE	26
	22.23		38141	BV	27
	22.39		22492	VV	28
AROCLOR-1260	22.67	0.0935	108990	VV	29
	22.98		10423	VV	30
	23.07		8470	VV	31
	23.27		20025	VV	32
AROCLOR-1260-2	23.49	0.0692	87863	VV	33
	23.68		58592	VV	34
	23.96		31897	VV	35
	24.07		24337	VE	36
	24.32		14663	VV	37
AROCLOR-1260-3	24.50	0.0739	118128	VV	38
	24.79		19617	VV	39
	25.07		67440	VV	40
	25.25		31676	VV	41
	25.51		21503	VV	42
	25.66		11556	VV	43
AROCLOR-1260-4	25.92	0.0700	59025	VV	44
	26.12		36978	VV	45
	26.29		32393	VV	46
	26.50		9508	VV	47
	26.61		12479	VV	48
AROCLOR-1260-5	26.84	0.0696	133004	VV	49
	27.13		237959	VE	50

P<1/5?

Avg = 0.0707

267

Sample ID: 65108 1X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_021 Analysis Date: 3-MAY-1997 07:32:23

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	27.94		74096	VV	51
	28.23		49678	VV	52
	28.44		49828	VB	53
	29.74		27920	VE	54
	30.58		51544	VE	55
	30.86		7562	EV	56
	32.55		33806	BB	57
DCB	34.41	0.0113	249340	BE	58

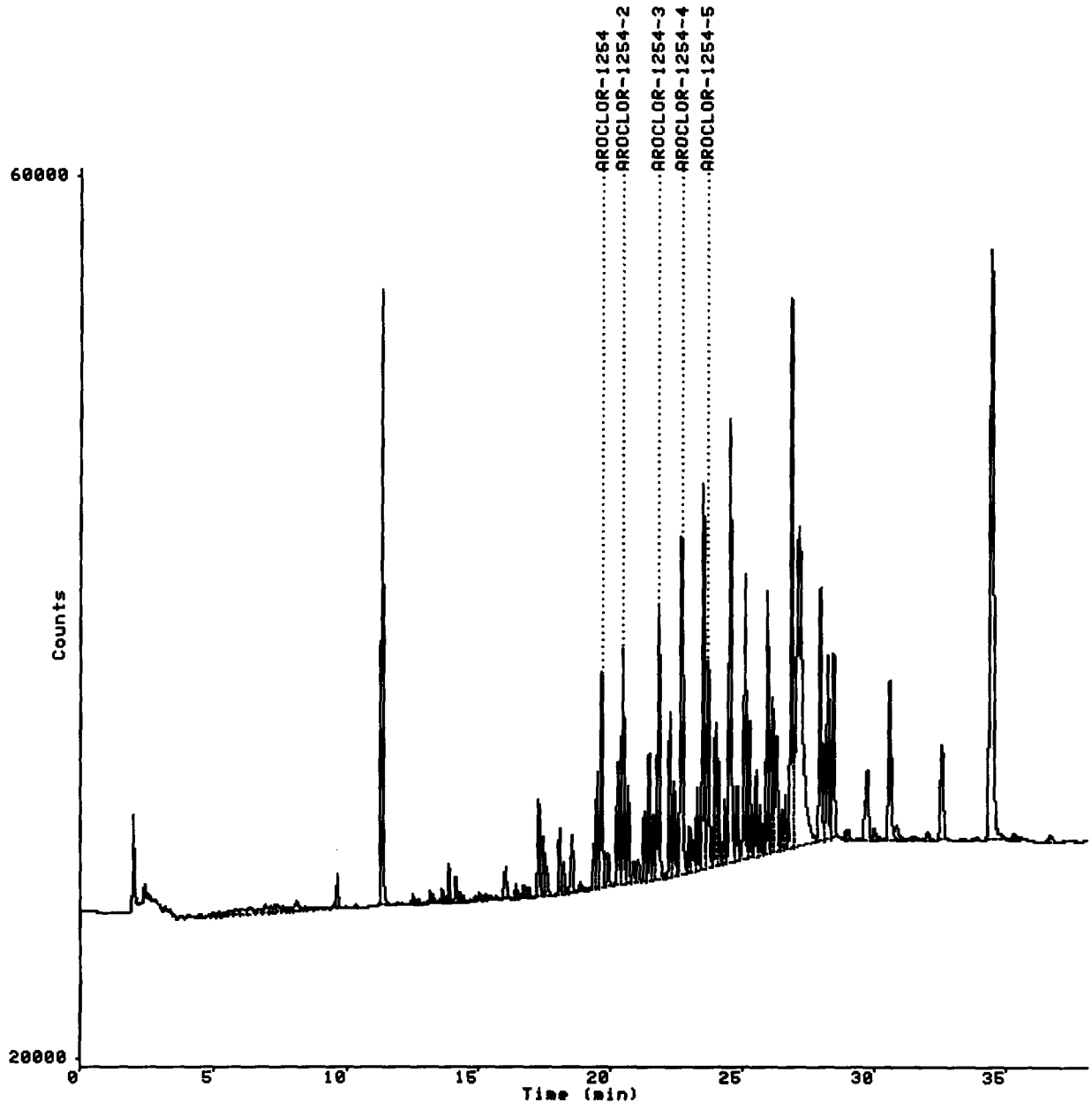
AR1016 average result...0.0107
AR1260 average result...0.0752

Run Number..... 21 End of Report.

Run Number..... ~~114~~ 21
Sample Name..... 65108 1X
Run Date..... 3-MAY-1997 07:32:23
Raw File..... 5_0502_021
Method Name..... 5_AR1254_0502
Method Type..... Linear

5/6/97

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65108 1X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

Run Number..1~~4~~ 21 Page 2

PCB ANALYSIS BY GC/ECD

Sample ID: 65108 1X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_021 Analysis Date: 3-MAY-1997 07:32:23

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	5.65		2911	VV	1
	5.85		3093	VV	2
	6.09		3774	VV	3
	6.37		5705	VV	4
	6.77		3753	VV	5
	6.92		4192	VV	6
	7.31		3371	VV	7
	7.59		3081	VV	8
	8.11		5251	VV	9
	9.63		7331	VE	10
	11.32		121503	BB	11
	13.58		2956	VE	12
	13.84		8094	VE	13
	14.11		5513	VV	14
	16.00		10143	BB	15
	16.39		3489	BB	16
	16.68		3209	BV	17
	16.88		2530	VB	18
	17.25		23368	BV	19
	17.43		13008	VV	20
	17.55		7782	VB	21
	18.05		15105	BV	22
	18.20		7770	VB	23
	18.52		15696	BB	24
	19.35		9066	VV	25
	19.47		25952	VV	26
AROCLOR-1254	19.64	0.0576	55377	VV	27
	19.89		7734	VB	28
	20.26		34443	BV	29
AROCLOR-1254-2	20.44	0.0396	56584	VV	30
	20.65		22292	VV	31
	20.86		6015	VV	32
	21.01		7902	VB	33
	21.26		15454	BV	34
	21.45		29195	VV	35
	21.62		14158	VV	36
AROCLOR-1254-3	21.81	0.0503	72949	VE	37
	22.23		38136	BV	38
	22.39		22471	VV	39
	22.54		5027	VV	40
AROCLOR-1254-4	22.67	0.0718	108938	VV	41
	22.98		10273	VV	42
	23.07		8657	VV	43
	23.27		20037	VV	44
	23.49		87834	VV	45
AROCLOR-1254-5	23.68	0.0638	58646	VV	46
	23.96		31820	VV	47
	24.07		24343	VE	48
	24.22		3096	EV	49
	24.32		14592	VV	50

Run Number..1~~14~~ 21 Page 3

Sample ID: 65108 1X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_021 Analysis Date: 3-MAY-1997 07:32:23

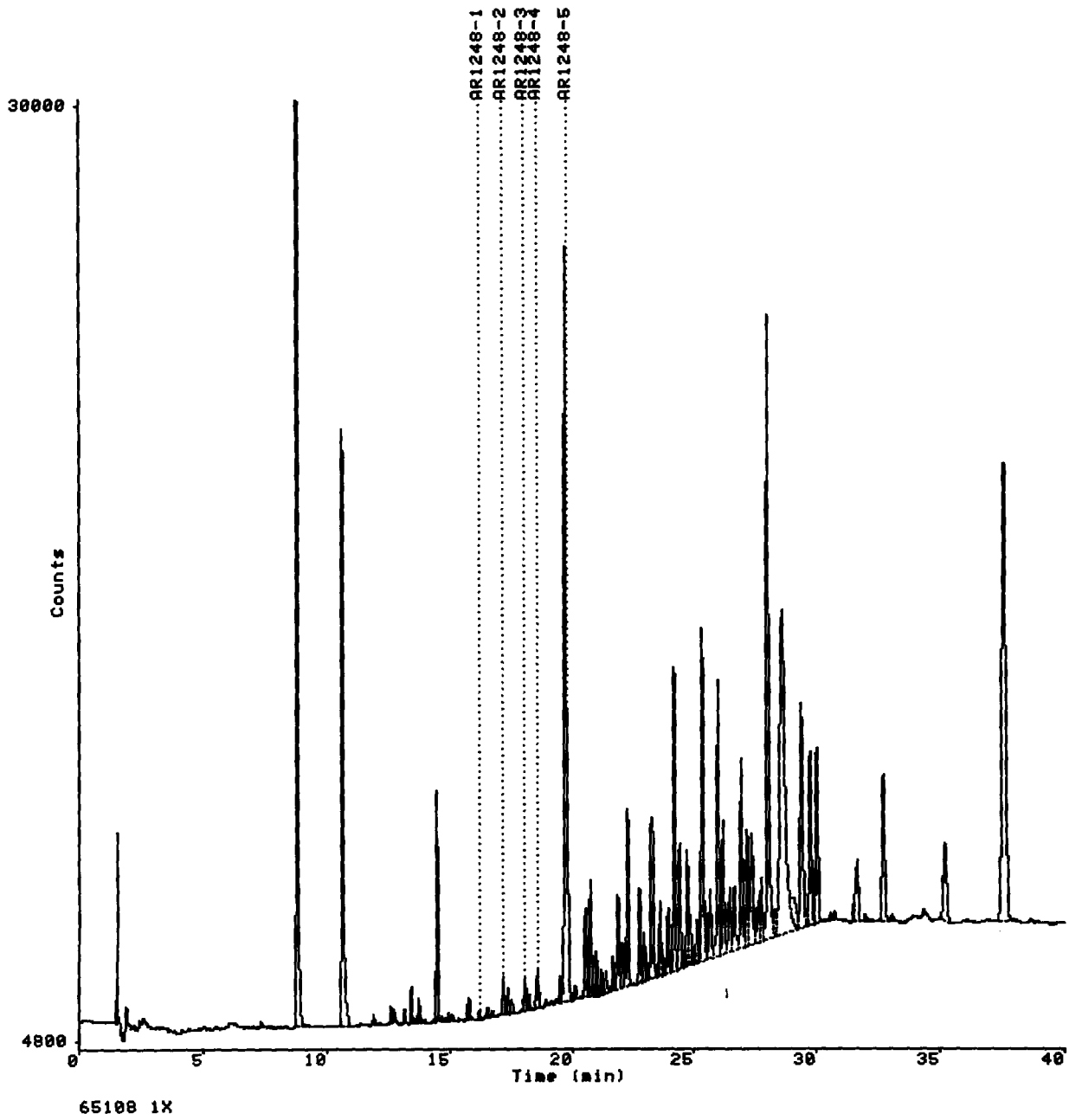
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	24.50		118095	VV	51
	24.79		19603	VV	52
	25.07		67427	VV	53
	25.25		31666	VV	54
	25.51		21455	VV	55
	25.66		11552	VV	56
	25.92		58984	VV	57
	26.12		36582	VV	58
	26.29		32765	VV	59
	26.50		9501	VV	60
	26.61		12395	VV	61
	26.84		132600	VV	62
	27.13		238258	VE	63
	27.94		73545	VV	64
	28.23		50004	VV	65
	28.44		49743	VB	66
	29.74		27876	VE	67
	30.01		3632	EV	68
	30.58		51424	VE	69
	30.86		7616	EV	70
	31.42		3474	VB	71
	32.02		2895	VB	72
	32.55		32701	BB	73
	34.41		248204	BE	74
	35.27		2692	EV	75
	36.64		3188	BB	76

Average result...0.0566 UG/G

Run Number..... 1~~14~~ 21 End of Report.

Run Number..... 13
Sample Name..... 65108 1X
Run Date..... 6-MAY-1997 04:05:32
Raw File..... 10_0505_013
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65108 1X
Datafile: 10_0505_013

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 04:05:32

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.32		688	BB	1
	8.81		115454	BB	2
	10.65		76980	BB	3
	11.91		1226	BB	4
	12.61		2014	BV	5
	12.74		1422	VB	6
	13.16		1570	BB	7
	13.44		4307	BB	8
	13.74		2987	BE	9
	14.50		26087	VE	10
	14.69		688	EB	11
	14.95		1093	VV	12
	15.11		819	VB	13
	15.75		1662	BV	14
	15.80		2570	VB	15
AR1248-1	16.22	0.00648	1173	BB	16
	16.54		1499	BB	17
	16.76		754	BB	18
AR1248-2	17.19	0.0248	4640	BB	19
	17.39		3200	BV	20
	17.52		2287	VB	21
AR1248-3	18.08	0.0174	4430	BV	22
	18.23		2230	VB	23
AR1248-4	18.60	0.0181	6385	BB	24
	18.96		598	BB	25
	19.37		537	VV	26
	19.53		3644	VV	27
AR1248-5	19.75	0.350	119106	VB	28
	20.14		1516	BB	29
	20.55		13930	VV	30
	20.76		15392	VV	31
	20.99		5368	VB	32
	21.20		3384	BV	33
	21.38		3542	VV	34
	21.67		4561	VV	35
	21.89		13042	VV	36
	22.07		5947	VV	37
	22.29		24800	VE	38
	22.77		12620	BV	39
	22.95		6652	VV	40
	23.11		2183	VV	41
	23.27		35907	VV	42
	23.61		10124	VV	43
	23.70		1932	VV	44
	23.79		1399	VV	45
	23.94		9105	VV	46
	24.19		39151	VV	47
	24.40		21064	VV	48
	24.72		15839	VV	49
	24.84		6395	VV	50

Sample ID: 65108 1X
Datafile: 10_0505_013

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 04:05:32

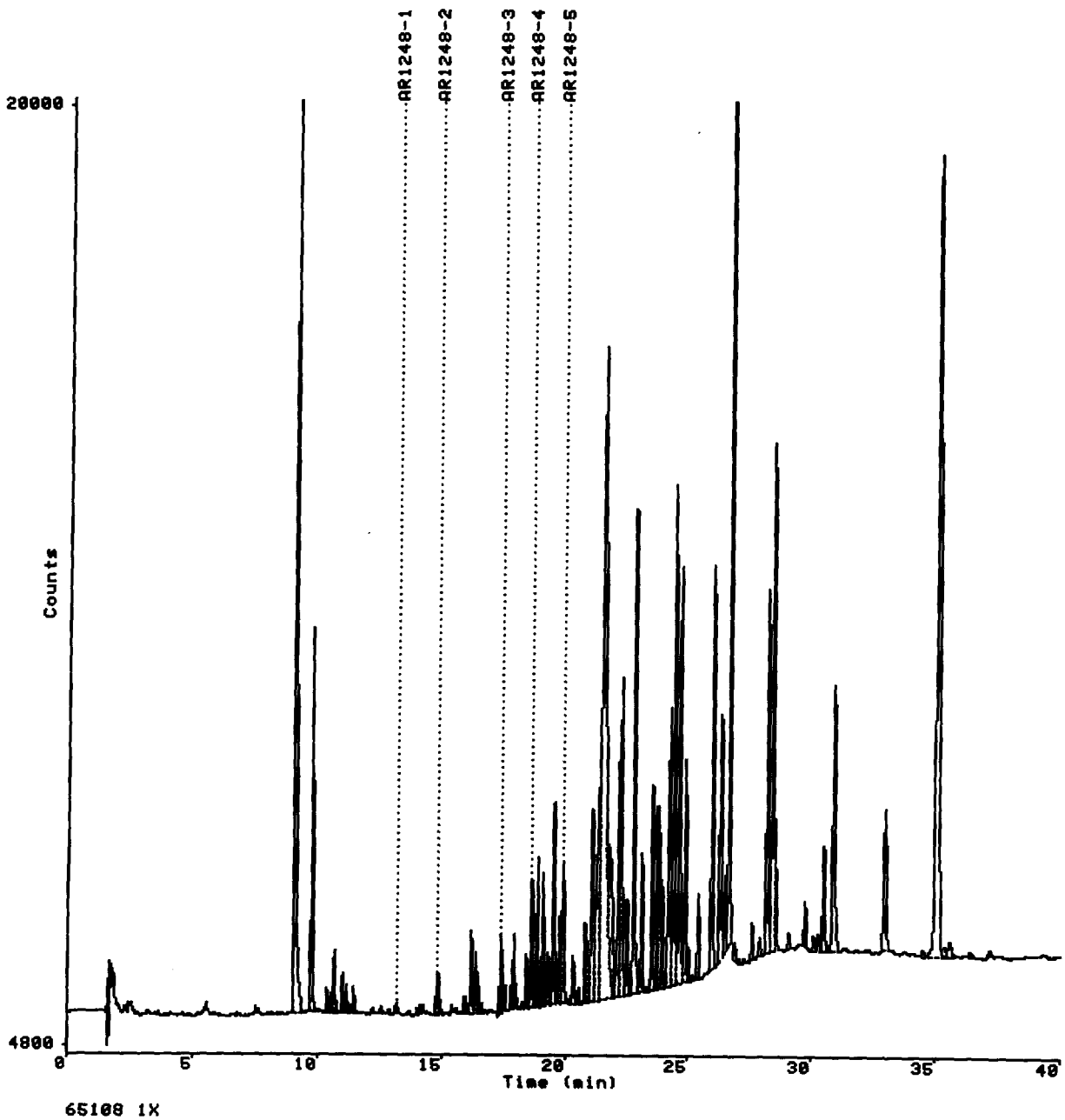
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.02		2077	VV	51
	25.12		6079	VV	52
	25.33		49852	VE	53
	25.44		4671	EV	54
	25.65		11871	VV	55
	25.97		39256	VV	56
	26.18		20005	VV	57
	26.46		11625	VV	58
	26.63		10858	VV	59
	26.92		28502	VV	60
	27.16		17655	VV	61
	27.35		22127	VV	62
	27.60		7212	VV	63
	27.73		10161	VV	64
	28.01		98059	VE	65
	28.32		5528	EV	66
	28.61		130829	VE	67
	29.05		10756	EV	68
	29.38		45219	VE	69
	29.61		1649	EV	70
	29.75		29159	VV	71
	30.02		30319	VB	72
	30.60		1242	BV	73
	30.75		1326	VB	74
	31.55		3734	BV	75
	31.66		11958	VB	76
	32.00		1242	BB	77
	32.73		30067	BE	78
	33.09		1606	EB	79
	34.36		1283	BB	80
	35.22		18365	BB	81
	37.59		124304	BB	82

Average result...0.0834 UG/G

Run Number..... 13 End of Report.

Run Number..... 13
Sample Name..... 65108 1X
Run Date..... 6-MAY-1997 04:05:33
Raw File..... 11_0505_013
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65108 1X
Datafile: 11_0505_013

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 6-MAY-1997 04:05:33

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	9.06		78033	BB	1
	9.75		24288	BE	2
	10.38		1874	BV	3
	10.60		1182	VV	4
	10.67		4578	VV	5
	11.00		2797	VV	6
	11.16		2079	VV	7
	11.44		2104	VB	8
	12.58		501	BB	9
AR1248-1	13.19	0.00132	848	BB	10
	14.17		685	VV	11
	14.26		665	VV	12
AR1248-2	14.85	0.00666	4058	BV	13
	14.95		849	VB	14
	15.43		508	BB	15
	15.94		1073	BB	16
	16.20		5851	BV	17
	16.38		4885	VV	18
	16.49		1720	VV	19
	16.61		672	VB	20
AR1248-3	17.40	0.0172	6387	BV	21
	17.56		1914	VB	22
	17.82		1578	BV	23
	17.93		5408	VE	24
	18.04		696	EB	25
	18.43		3625	VV	26
AR1248-4	18.65	0.0216	9406	VV	27
	18.87		10292	VV	28
	19.09		9450	VV	29
	19.30		6074	VV	30
	19.40		1844	VV	31
	19.53		16373	VV	32
	19.80		7487	VV	33
AR1248-5	19.91	0.0337	12878	VE	34
	20.32		3673	BV	35
	20.55		1157	VB	36
	20.81		6063	BV	37
	20.90		5185	VV	38
	21.07		19517	VV	39
	21.33		26358	VV	40
	21.50		127440	VE	41
	21.85		21453	EV	42
	22.15		19254	VV	43
	22.25		27045	VV	44
	22.50		7272	VE	45
	22.62		534	EV	46
	22.77		38886	VV	47
	23.10		10736	VE	48
	23.30		531	EV	49
	23.52		14989	VV	50

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M

Sample ID: 65108 1X
Datafile: 11_0505_013

Analysis Date: 6-MAY-1997 04:05:33

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	23.72		13727	VV	51
	23.81		10545	VV	52
	23.92		7890	VB	53
	24.21		26611	BV	54
	24.38		40475	VV	55
	24.62		33276	VV	56
	24.85		17894	VE	57
	25.00		2304	EV	58
	25.39		5978	BB	59
	25.94		31812	BB	60
	26.28		25804	BB	61
	26.47		4938	BV	62
	26.62		72161	VB	63
	26.88		1141	BB	64
	27.56		2809	BB	65
	27.88		1541	BV	66
	28.17		31451	VV	67
	28.38		44715	VV	68
	28.49		8763	VB	69
	29.05		1512	BB	70
	29.72		3848	BB	71
	30.08		1310	BV	72
	30.26		1394	VB	73
	30.48		10157	BB	74
	30.88		28195	BB	75
	32.96		16563	BB	76
	34.51		664	BV	77
	35.04		111349	VE	78
	35.34		1362	EV	79
	35.58		2311	EB	80
	37.18		749	BB	81
	41.57		1209	BB	82

Average result...0.0161 UG/G

Run Number..... 13 End of Report.

TEST CODE :SPCB 1 JOB NUMBER :9700.860
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

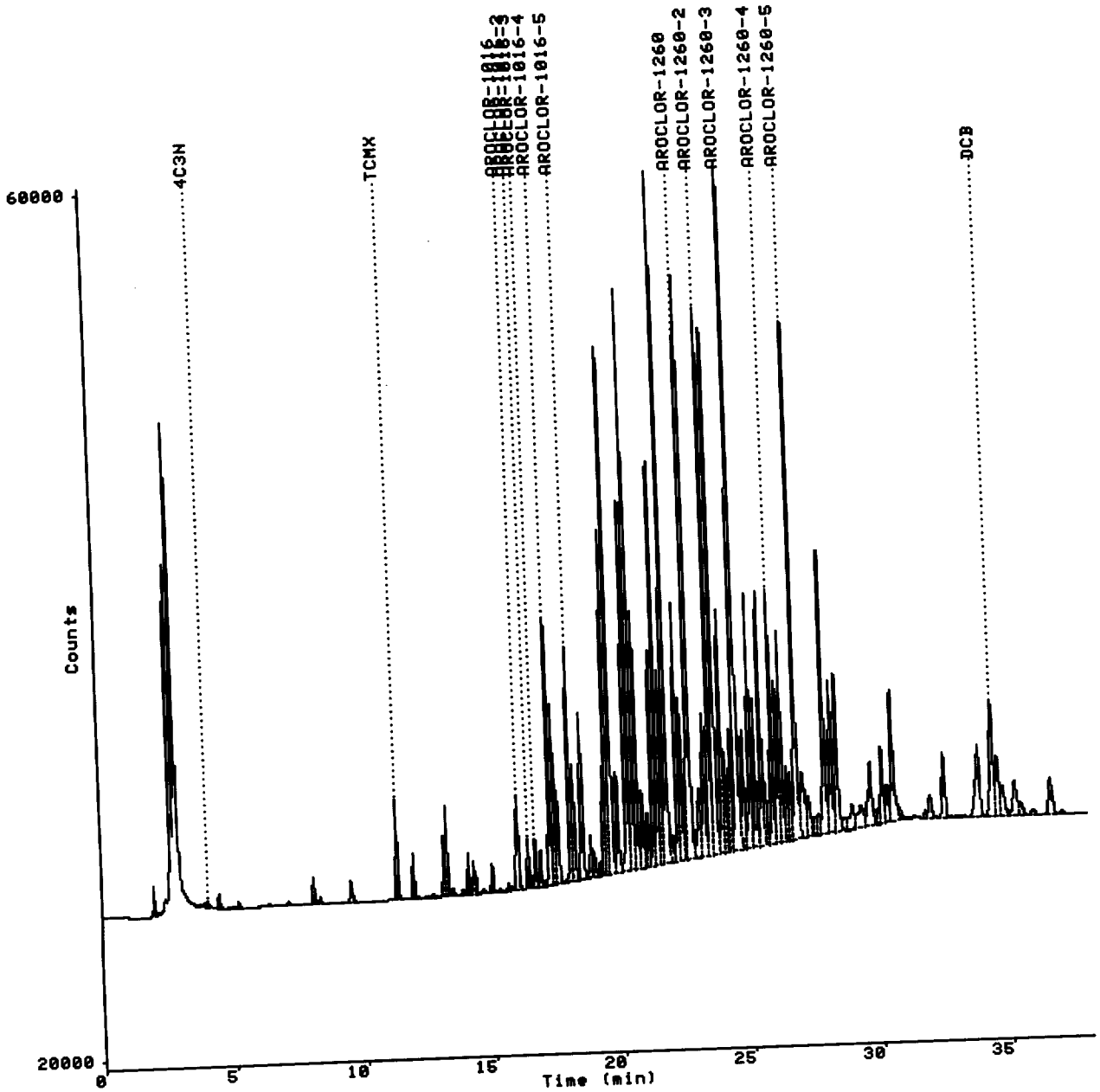
CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 80 %
TEST NAME : 8081 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-97-65109 MATRIX : SOLID
SAMPLE ID CLIENT: Q204

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.25
PCB-1254	1.8		0.25
PCB-1221	ND		0.50
PCB-1232	ND		0.25
PCB-1248	0.92		0.25
PCB-1260	1.1		0.25
PCB-1016	ND		0.25

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Run Number..... 22
Sample Name..... 65109 10X
Run Date..... 3-MAY-1997 08:14:48
Raw File..... 5_0502_022
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65109 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65109 10X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_022 Analysis Date: 3-MAY-1997 08:14:48

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	8.10		7412	BV	1
	9.54		6363	BE	2
TCMX	11.32	0.0117	21008	BB	3
	11.95		8755	BE	4
	13.13		12130	BV	5
	13.24		18495	VE	6
	14.08		8220	VV	7
	14.28		7508	VV	8
	15.00		6896	BB	9
AROCLOR-1016	16.00	0.108	31433	BB	10
AROCLOR-1016-2	16.39	0.0742	11621	BB	11
AROCLOR-1016-3	16.68	0.208	12147	BV	12
	16.88		8257	VB	13
AROCLOR-1016-4	17.25	1.47	65715	BV	14
	17.43		40712	VV	15
	17.56		27539	VV	16
AROCLOR-1016-5	18.05	1.13	55455	VV	17
	18.20		29689	VV	18
	18.52		51574	VV	19
	18.84		10634	VV	20
	18.98		6174	VV	21
	19.35		22738	VV	22
	19.47		78756	VV	23
	19.63		140066	VV	24
	19.89		26733	VV	25
	20.26		106240	VV	26
	20.44		143113	VV	27
	20.65		61920	VV	28
	20.85		21106	VV	29
	21.01		11743	VV	30
	21.06		10538	VV	31
	21.26		51314	VV	32
	21.45		94263	VV	33
	21.62		44326	VV	34
	21.81		181447	VE	35
	22.02		8042	EV	36
	22.24		65506	VV	37
	22.39		39670	VV	38
	22.54		17302	VV	39
AROCLOR-1260	22.69	2.02	217240	VE	40
	23.07		29759	EV	41
	23.27		40371	VV	42
AROCLOR-1260-2	23.49	1.09	129604	VV	43
	23.69		150736	VV	44
	23.96		60332	VV	45
	24.07		23314	VV	46
	24.22		19761	VV	47
	24.32		29536	VV	48
AROCLOR-1260-3	24.50	1.58	238166	VE	49
	24.80		34415	EV	50

BV 5/6/97

Area 21,1 = 0.861

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Sample ID: 65109 10X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_022 Analysis Date: 3-MAY-1997 08:14:48

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.07		68694	VV	51
	25.26		38517	VV	52
	25.51		70609	VE	53
	25.66		15696	EV	54
AROCLOR-1260-4	25.92	0.758	63329	VV	55
	26.12		44187	VV	56
	26.29		58781	VV	57
	26.50		19954	VV	58
	26.61		17288	VV	59
AROCLOR-1260-5	26.84	0.734	139429	VE	60
	27.10		36821	EV	61
	27.33		15626	VV	62
	27.61		5797	VV	63
	27.72		8676	VV	64
	27.94		88567	VV	65
	28.23		51639	VV	66
	28.45		50411	VE	67
	29.02		14928	EV	68
	29.37		18487	VV	69
	29.74		32180	VE	70
	30.18		25087	VV	71
	30.38		13152	VV	72
	30.58		51728	VE	73
	32.02		9617	VV	74
	32.55		23395	VE	75
	33.88		38661	VB	76
DCB	34.41	0.0161	52150	BV	77
	34.62		24936	VV	78
	34.82		13339	VV	79
	35.28		18304	VV	80
	35.48		6556	VV	81
	36.64		17786	BE	82

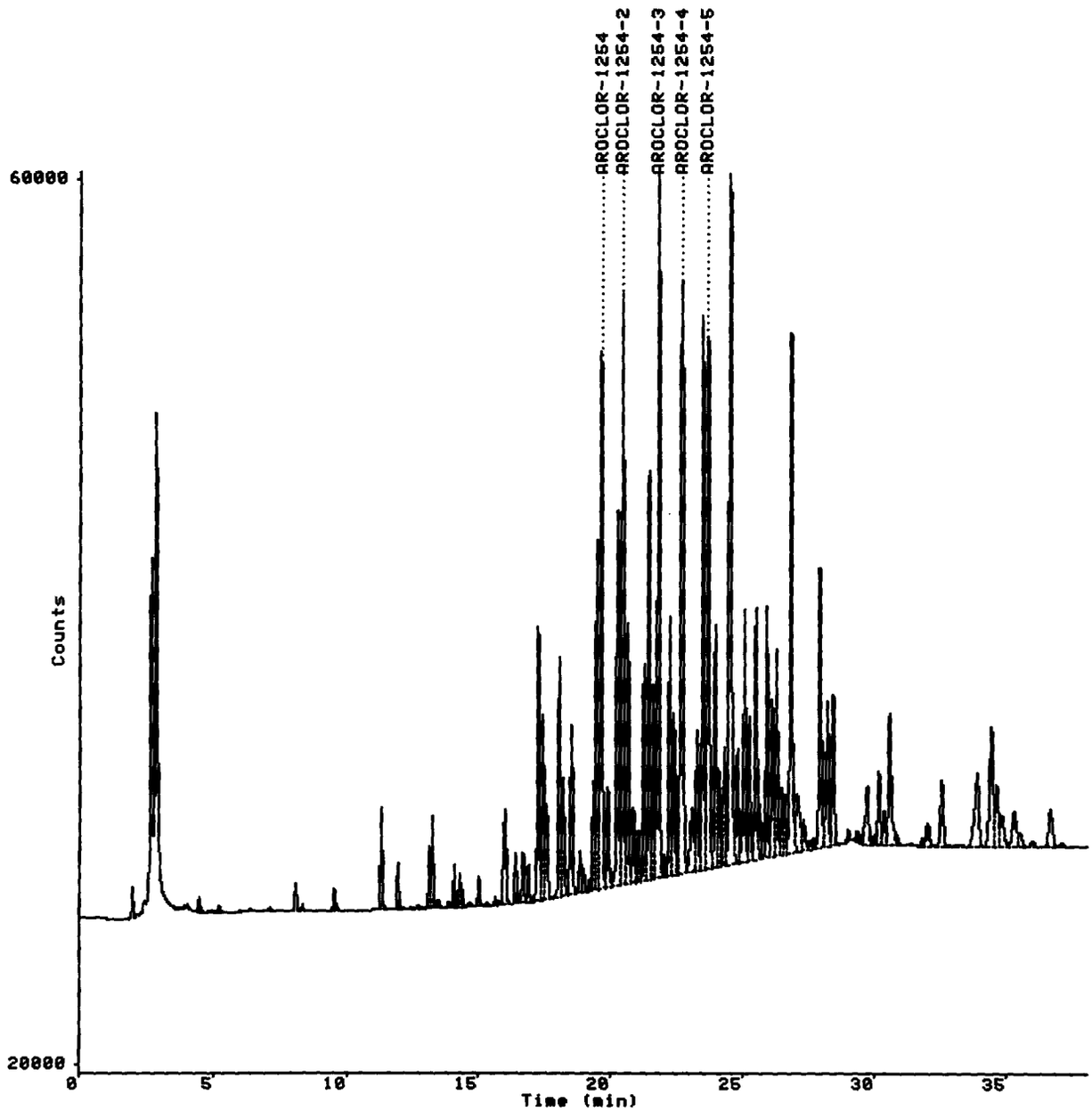
AR1016 average result...0.598
AR1260 average result...1.24

Run Number..... 22 End of Report.

Run Number..... ~~115~~ 22
Sample Name..... 65109 10X
Run Date..... 3-MAY-1997 08:14:48
Raw File..... 5_0502_022
Method Name..... 5_AR1254_0502
Method Type..... Linear

5/6/97

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65109 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

Run Number..1~~1~~5 Page 2

PCB ANALYSIS BY GC/ECD

Sample ID: 65109 10X
Datafile: 5_0502_022

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 08:14:48

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	4.49		2924	BB	1
	8.10		7346	BV	2
	9.54		5070	BV	3
	11.32		20969	BB	4
	11.95		8754	BE	5
	13.13		12177	BV	6
	13.24		18455	VE	7
	14.08		8235	VV	8
	14.28		7393	VV	9
	14.36		3123	VB	10
	15.00		6885	BB	11
	16.00		31415	BB	12
	16.39		11621	BB	13
	16.68		12147	BV	14
	16.88		8258	VB	15
	17.25		65641	BV	16
	17.43		40502	VV	17
	17.56		27160	VB	18
	18.05		55042	BV	19
	18.20		29477	VV	20
	18.52		50813	VB	21
	18.84		9760	BV	22
	18.98		5738	VE	23
	19.20		2642	VV	24
	19.35		22312	VV	25
	19.47		77742	VV	26
AROCLOR-1254	19.63	1.62	138488	VV	27
	19.89		24806	VV	28
	20.26		104071	VV	29
AROCLOR-1254-2	20.44	1.18	141181	VV	30
	20.65		60044	VV	31
	20.85		19418	VV	32
	21.01		9282	VV	33
	21.06		10602	VV	34
	21.26		49318	VV	35
	21.45		91977	VV	36
	21.62		42433	VV	37
AROCLOR-1254-3	21.81	1.32	178208	VE	38
	22.02		5943	EV	39
	22.24		62352	VV	40
	22.39		37480	VV	41
	22.54		16559	VV	42
AROCLOR-1254-4	22.69	1.48	211144	VV	43
	23.07		25416	VV	44
	23.27		36790	VV	45
	23.49		125954	VV	46
AROCLOR-1254-5	23.69	1.67	145683	VV	47
	23.96		56221	VV	48
	24.07		21523	VV	49
	24.22		17790	VV	50

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Run Number..115 Page 3

Sample ID: 65109 10X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_022 Analysis Date: 3-MAY-1997 08:14:48

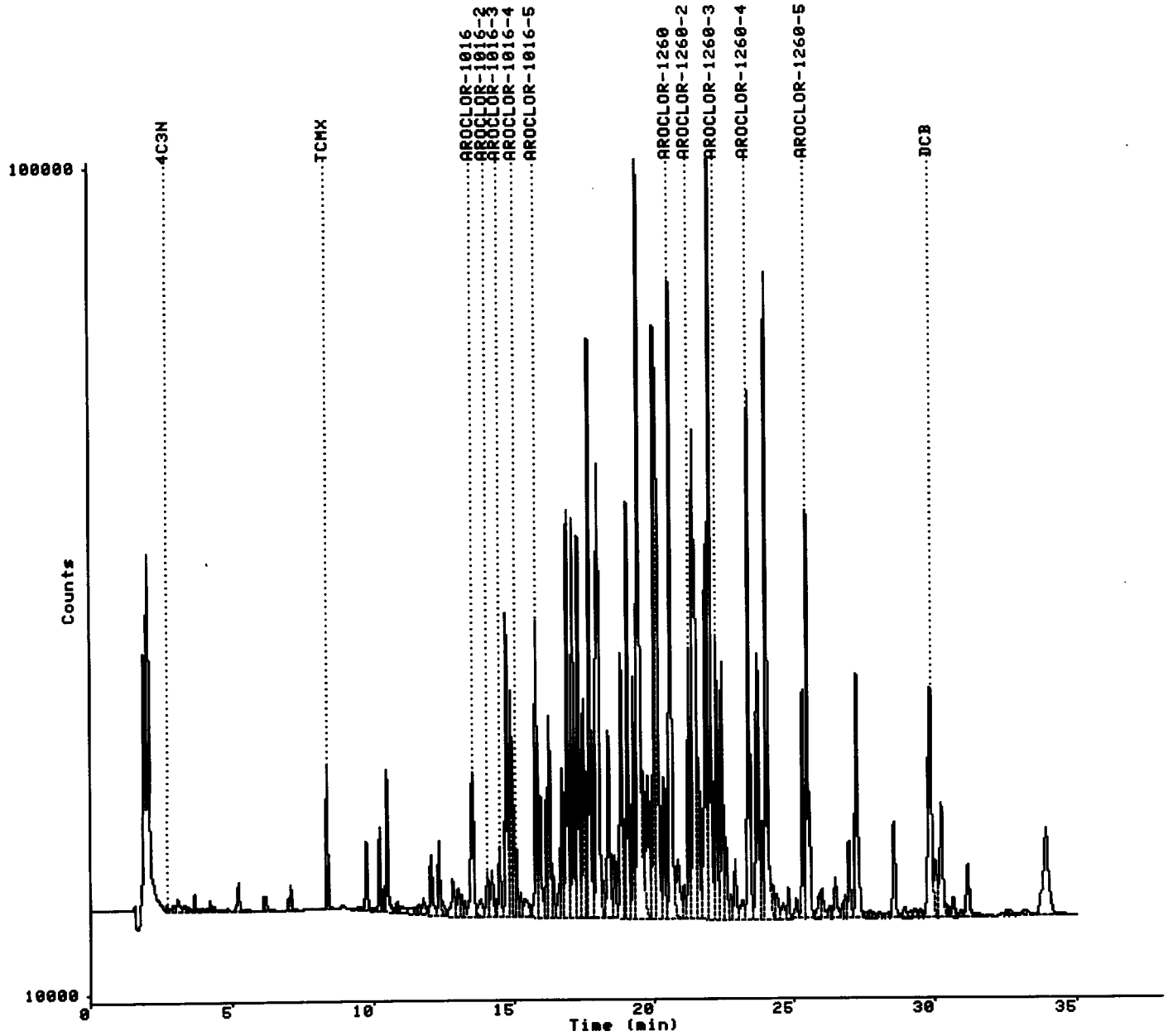
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	24.32		26556	VV	51
	24.50		230889	VE	52
	24.80		30461	EV	53
	25.07		62699	VV	54
	25.26		33623	VV	55
	25.51		64285	VE	56
	25.66		11782	EV	57
	25.92		57297	VV	58
	26.12		39569	VV	59
	26.29		53098	VV	60
	26.50		16008	VV	61
	26.61		13510	VV	62
	26.84		131020	VE	63
	27.10		28886	EV	64
	27.33		9693	VV	65
	27.61		2521	VV	66
	27.72		3614	VV	67
	27.94		79770	VV	68
	28.23		43231	VV	69
	28.45		40274	VB	70
	29.02		2997	BE	71
	29.37		3537	BB	72
	29.74		21818	BE	73
	30.18		20702	VV	74
	30.38		10158	VV	75
	30.58		46317	VE	76
	32.02		9574	VV	77
	32.55		23381	VE	78
	33.88		38646	VB	79
	34.41		52049	BV	80
	34.62		24989	VV	81
	34.82		13385	VV	82
	35.28		18291	VV	83
	35.48		6557	VV	84
	35.97		2754	VB	85
	36.64		17786	BE	86

Average result...1.45 UG/G

Run Number..... 115 End of Report.

Run Number..... 22
Sample Name..... 65109 10X
Run Date..... 3-MAY-1997 08:14:43
Raw File..... 6_0502_022
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



65109 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65109 10X
Datafile: 6_0502_022

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 08:14:43

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	3.08		8134	VV	1
	3.67		6439	VE	2
	5.21		15881	VE	3
	6.11		6760	BV	4
	6.18		6343	VE	5
	7.05		11565	VE	6
TCMX	8.34	0.00766	65094	VB	7
	9.74		32772	VE	8
	10.21		37607	VE	9
	10.47		70698	VE	10
	10.82		9119	EV	11
	11.00		7736	EV	12
	11.27		7474	VV	13
	11.58		7324	VV	14
	11.76		11832	VV	15
	12.03		41532	VV	16
	12.32		39402	VE	17
	12.47		9031	EB	18
	12.80		31484	BV	19
	12.99		18849	VV	20
	13.09		11678	VV	21
	13.20		9886	VV	22
AROCLOR-1016	13.50	0.156	118416	VE	23
	13.79		21544	EV	24
AROCLOR-1016-2	14.03	0.0169	29246	VV	25
	14.20		30356	VV	26
	14.36		9271	VV	27
AROCLOR-1016-3	14.47	0.226	40149	VV	28
	14.72		177569	VV	29
	14.89		136184	VV	30
	14.97		43308	VV	31
AROCLOR-1016-4	15.07	0.589	33347	VV	32
	15.22		15046	VV	33
	15.42		23629	VV	34
	15.62		7232	VV	35
AROCLOR-1016-5	15.79	1.14	173974	VV	36
	15.92		68068	VV	37
	16.16		57376	VV	38
	16.25		108923	VV	39
	16.36		28864	VV	40
	16.58		19026	VV	41
	16.71		83040	VV	42
	16.90		245190	VV	43
	17.10		215285	VV	44
	17.29		216129	VV	45
	17.47		122003	VV	46
	17.57		63198	VV	47
	17.70		337302	VV	48
	18.00		399240	VE	49
	18.16		21227	EV	50

Sample ID: 65109 10X
Datafile: 6_0502_022

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 08:14:43

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	18.37		121250	VV	51
	18.59		39680	VV	52
	18.81		160889	VV	53
	18.91		35616	VV	54
	19.05		223340	VV	55
	19.26		130464	VV	56
	19.43		599751	VE	57
	19.60		30148	EV	58
	19.76		127250	EV	59
	20.02		340573	VV	60
	20.10		341994	VV	61
	20.35		82133	VV	62
AROCLOR-1260	20.58	1.20	399591	VE	63
	20.84		58857	EV	64
	21.06		21758	VV	65
AROCLOR-1260-2	21.24	0.953	146382	VV	66
	21.40		434050	VV	67
	21.58		86098	VV	68
	21.85		248866	VV	69
	21.99		506343	VV	70
AROCLOR-1260-3	22.21	0.739	162568	VV	71
	22.42		148965	VV	72
	22.56		47286	VV	73
	22.73		16738	VV	74
	22.88		40058	VV	75
	23.15		18008	VV	76
AROCLOR-1260-4	23.38	1.23	297864	VV	77
	23.69		211194	VV	78
	23.84		51340	VV	79
	24.00		382076	VE	80
	24.22		17504	EV	81
	24.35		24434	EV	82
	24.59		15452	VV	83
	24.78		19977	VB	84
	25.07		18218	BV	85
	25.31		124639	VV	86
AROCLOR-1260-5	25.47	0.790	259826	VE	87
	25.89		19789	EV	88
	26.00		24737	VV	89
	26.26		8701	VV	90
	26.33		6316	VV	91
	26.46		32399	VV	92
	26.72		8208	VV	93
	26.82		16137	VV	94
	26.96		48112	VV	95
	27.23		181766	VE	96
	27.56		6336	EV	97
	27.70		5602	EV	98
	27.78		6032	EV	99
	28.02		5824	VV	100
	28.38		6068	VV	101

Sample ID: 65109 10X
Datafile: 6_0502_022

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 08:14:43

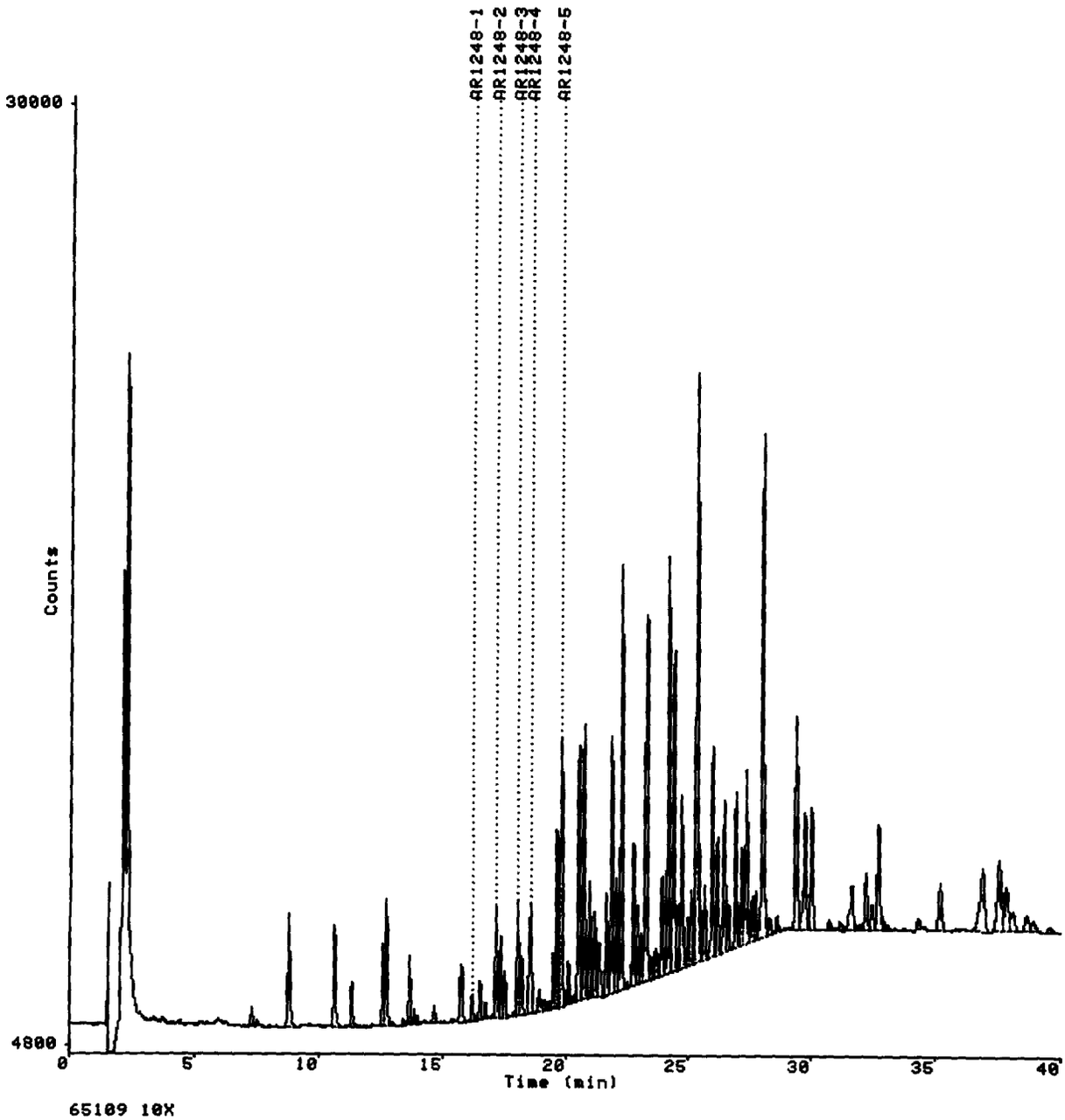
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	28.55		64692	VE	102
	28.93		11445	EV	103
	29.13		6395	EV	104
	29.30		9674	VV	105
	29.49		7754	VV	106
DCB	29.84	0.0417	220510	VE	107
	30.02		43568	EV	108
	30.23		94340	VE	109
	30.41		7187	EV	110
	30.64		18839	EV	111
	30.93		6458	VV	112
	31.16		46643	VE	113
	31.54		6142	EV	114
	32.53		6409	VV	115
	32.66		6648	VV	116
	33.18		14293	VV	117
	33.91		127876	VE	118

AR1016 average result...0.425
AR1260 average result...0.983

Run Number..... 22 End of Report.

Run Number..... 16
Sample Name..... 65109 10X
Run Date..... 6-MAY-1997 10:40:33
Raw File..... 10_0505_016
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65109 10X
Datafile: 10_0505_016

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 10:40:33

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	7.31		3338	BV	1
	7.52		836	VB	2
	8.80		17349	BB	3
	10.65		13873	BB	4
	11.35		5588	BB	5
	12.60		10117	BV	6
	12.73		16760	VE	7
	13.43		713	BB	8
	13.68		8275	BV	9
	13.88		1837	VV	10
	13.98		892	VB	11
	14.68		2535	BB	12
	15.79		11387	BB	13
	16.22		3674	BB	14
AR1248-1	16.53	0.289	5019	VB	15
	16.75		2200	BB	16
	17.19		16589	BV	17
AR1248-2	17.38	0.967	10301	VV	18
	17.52		7823	VB	19
	18.07		15259	VV	20
AR1248-3	18.23	0.660	8733	VB	21
	18.59		19216	BB	22
AR1248-4	18.95	0.602	3748	BV	23
	19.14		1763	VV	24
	19.24		1173	VV	25
	19.36		1082	VV	26
	19.52		7149	VV	27
	19.66		24033	VV	28
	19.74		14601	VV	29
	19.84		40538	VB	30
AR1248-5	20.13	1.18	5771	BE	31
	20.25		608	EV	32
	20.39		880	EV	33
	20.55		40983	VV	34
	20.76		36678	VV	35
	20.98		14111	VB	36
	21.20		11848	BV	37
	21.37		8947	VB	38
	21.67		13244	BV	39
	21.88		34802	VV	40
	22.07		14282	VV	41
	22.28		56919	VE	42
	22.53		772	EB	43
	22.77		19571	BV	44
	22.94		10679	VV	45
	23.10		6085	VV	46
	23.30		70371	VB	47
	23.60		3271	BV	48
	23.70		3928	VV	49
	23.79		2558	VV	50

Sample ID: 65109 10X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_016 Analysis Date: 6-MAY-1997 10:40:33

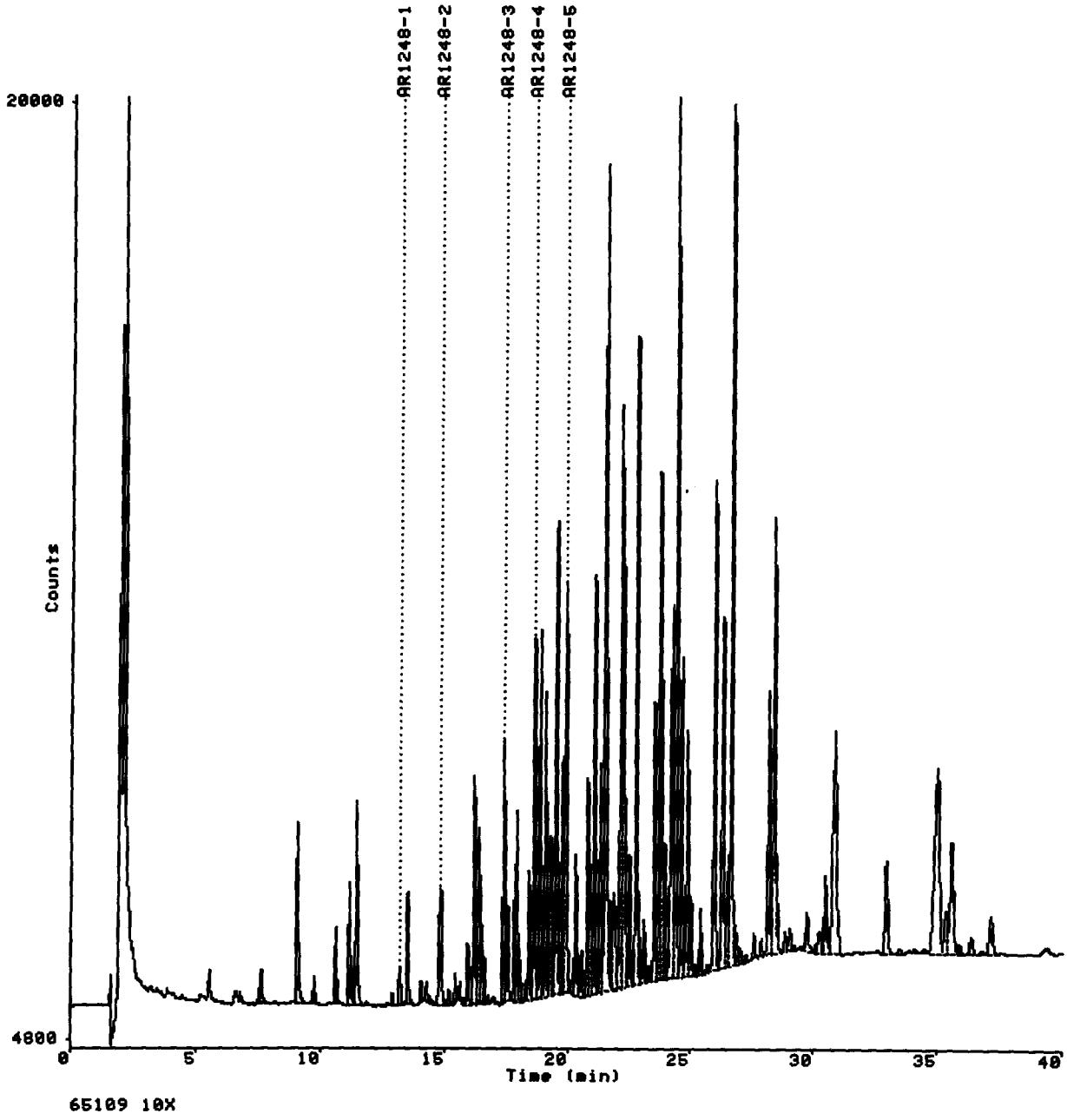
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	23.93		14198	VV	51
	24.18		52499	VV	52
	24.40		50023	VV	53
	24.71		25957	VE	54
	24.82		3249	EV	55
	25.00		6662	VV	56
	25.11		9272	VV	57
	25.32		84557	VE	58
	25.43		8296	EV	59
	25.65		11646	VV	60
	25.96		28676	VV	61
	26.17		15775	VV	62
	26.45		23302	VV	63
	26.62		6250	VV	64
	26.92		20720	VV	65
	27.15		14262	VV	66
	27.35		26918	VV	67
	27.59		6653	VV	68
	27.72		6677	VV	69
	28.00		75894	VE	70
	28.31		4476	EV	71
	28.61		2516	VB	72
	29.37		38440	BV	73
	29.74		21224	VV	74
	30.01		20871	VB	75
	30.73		1604	BE	76
	31.17		1582	BB	77
	31.64		11334	BE	78
	31.82		733	EV	79
	31.98		1020	EV	80
	32.20		11067	VV	81
	32.46		5314	VV	82
	32.71		22232	VE	83
	32.88		1517	EV	84
	33.05		1014	EB	85
	34.32		2383	BB	86
	35.19		10878	BB	87
	36.89		21146	BB	88
	37.56		21147	BV	89
	37.84		12801	VV	90
	38.09		5221	VB	91
	38.64		4533	BV	92
	38.89		3119	VB	93
	39.57		1146	BB	94
	40.38		5343	BB	95

Average result...0.740 UG/G

Run Number..... 16 End of Report.

Run Number..... 16
Sample Name..... 65109 10X
Run Date..... 6-MAY-1997 10:40:36
Raw File..... 11_0505_016
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65109 10X
Datafile: 11_0505_016

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 6-MAY-1997 10:40:36

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.52		889	BV	1
	7.61		2493	VB	2
	9.05		14267	BB	3
	9.74		1723	BB	4
	10.61		5555	BB	5
	11.16		9442	BV	6
	11.44		15888	VB	7
	12.89		804	BB	8
AR1248-1	13.19	0.212	3177	BB	9
	13.50		7980	BB	10
	14.05		1213	BB	11
	14.27		1497	BV	12
AR1248-2	14.85	0.366	14361	BB	13
	15.18		1211	BB	14
	15.43		1797	BB	15
	15.62		1289	BB	16
	15.94		4145	VB	17
	16.20		16991	BV	18
	16.38		15200	VV	19
	16.49		5381	VV	20
	16.60		3216	VV	21
	16.77		652	VB	22
AR1248-3	17.40	0.699	21165	BV	23
	17.56		6935	VB	24
	17.82		6902	BV	25
	17.92		13932	VE	26
	18.06		2842	EB	27
	18.29		1238	BV	28
	18.43		9257	VV	29
AR1248-4	18.64	0.718	27962	VV	30
	18.87		26950	VV	31
	19.09		22525	VV	32
	19.31		18215	VV	33
	19.40		5835	VV	34
	19.53		40322	VE	35
	19.72		2305	EV	36
	19.80		17418	VV	37
AR1248-5	19.90	1.09	39378	VE	38
	20.32		11241	BV	39
	20.55		3456	VB	40
	20.80		16777	BV	41
	20.90		10275	VV	42
	21.07		30677	VB	43
	21.31		17009	BV	44
	21.50		75858	VE	45
	21.69		5178	EV	46
	21.82		4543	EV	47
	21.90		11481	EV	48
	22.14		47227	VV	49
	22.25		40331	VV	50

Run Number..16 Page 3

Sample ID: 65109 10X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_016 Analysis Date: 6-MAY-1997 10:40:36

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	22.50		9503	VE	51
	22.77		49052	VE	52
	22.86		4229	EV	53
	23.09		5839	VB	54
	23.28		1210	BV	55
	23.52		20453	VV	56
	23.72		39122	VV	57
	23.80		18955	VV	58
	23.92		10103	VB	59
	24.21		35844	BV	60
	24.37		71913	VV	61
	24.61		24214	VV	62
	24.85		21002	VV	63
	25.00		6102	VE	64
	25.14		667	EB	65
	25.38		4855	BB	66
	25.66		890	BV	67
	25.94		40865	VV	68
	26.29		34676	VV	69
	26.46		7249	VV	70
	26.62		67759	VE	71
	26.75		2248	EV	72
	26.87		2319	EV	73
	27.00		1777	VB	74
	27.25		502	BB	75
	27.56		1876	BB	76
	27.87		1507	BV	77
	28.16		23835	VV	78
	28.37		41775	VE	79
	28.48		4155	EV	80
	28.84		1993	VV	81
	29.04		2392	VV	82
	29.20		572	VB	83
	29.73		4366	VB	84
	30.11		679	BV	85
	30.24		2309	VV	86
	30.46		8274	VV	87
	30.86		36571	VB	88
	32.94		10970	BB	89
	33.49		556	BB	90
	34.99		41846	BV	91
	35.33		6378	VV	92
	35.57		16997	VE	93
	35.87		1109	EB	94
	36.36		2276	BB	95
	37.15		5969	BB	96
	41.53		25716	BB	97

Average result...0.617 UG/G

TEST CODE :SPCB 1 JOB NUMBER :9700.860
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

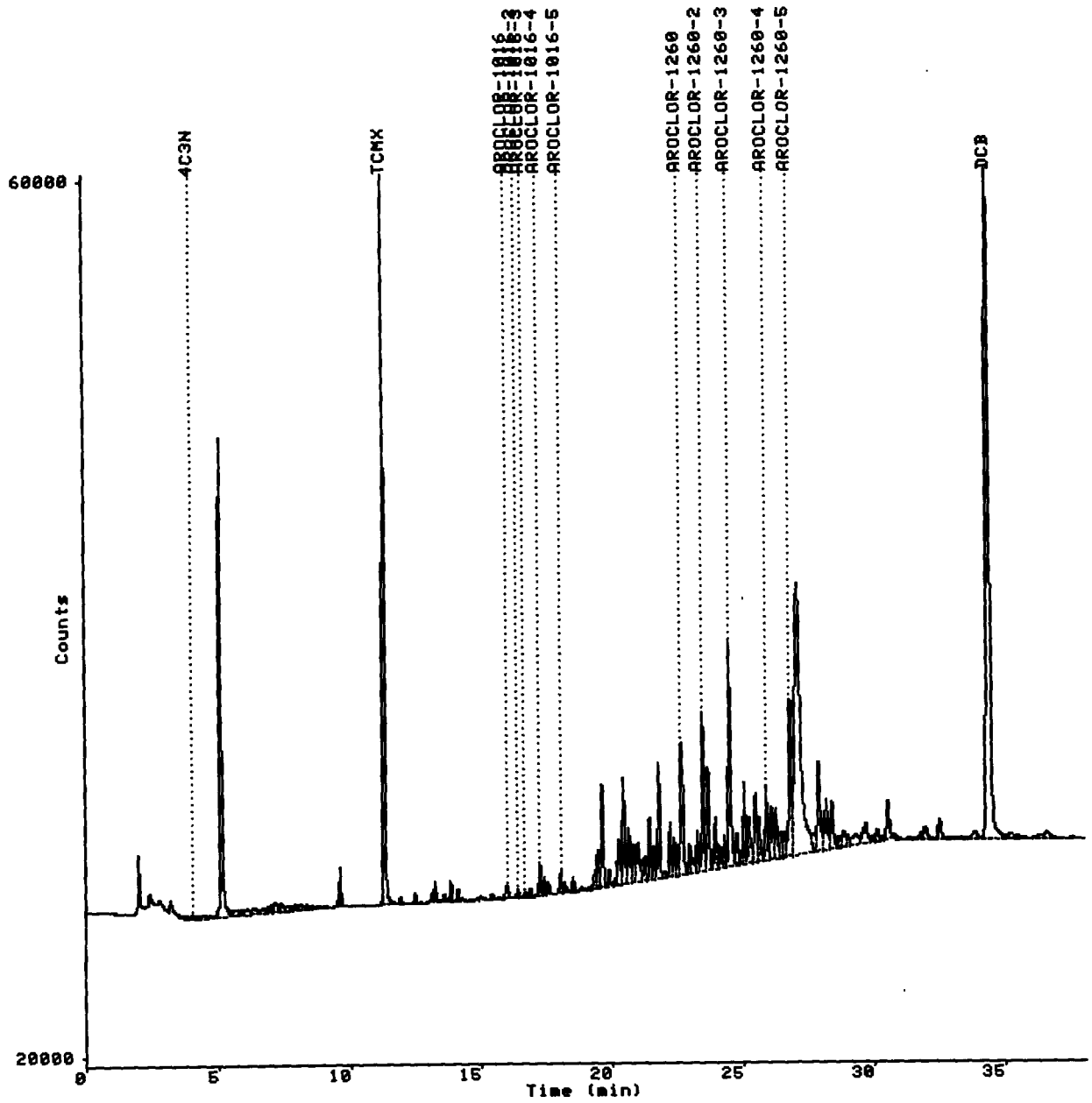
CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 62 %
TEST NAME : 8081 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-97-65110 MATRIX : SOLID
SAMPLE ID CLIENT: Q205

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.032
PCB-1254	0.034		0.032
PCB-1221	ND		0.064
PCB-1232	ND		0.032
PCB-1248	ND		0.032
PCB-1260	0.028	J	0.032
PCB-1016	ND		0.032

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Run Number..... 23
Sample Name..... 65110 1X
Run Date..... 3-MAY-1997 08:57:16
Raw File..... 5_0502_023
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65110 1X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65110 1X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_023 Analysis Date: 3-MAY-1997 08:57:16

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	5.12		109231	VE	1
	9.63		7567	VB	2
TCMX	11.32	0.0106	161969	BE	3
AROCLOR-1016-4	17.25	0.00574	8759	BV	4
AROCLOR-1016-5	18.05	0.00271	6313	BV	5
	19.47		9455	VV	6
	19.64		26442	VV	7
	20.27		14151	VV	8
	20.45		28733	VV	9
	20.65		16019	VV	10
	20.85		12541	VV	11
	21.00		14740	VV	12
	21.26		5882	VV	13
	21.45		13780	VV	14
	21.62		7286	VV	15
	21.81		29641	VE	16
	22.24		13223	BV	17
	22.39		9851	VV	18
	22.53		5468	VV	19
AROCLOR-1260	22.67	0.0312	46722	VV	20
	22.97		6861	VV	21
	23.27		10339	VV	22
AROCLOR-1260-2	23.49	0.0202	36280	VV	23
	23.68		28708	VE	24
	23.96		13015	VV	25
	24.06		5517	VV	26
	24.32		7512	VV	27
AROCLOR-1260-3	24.50	0.0351	63088	VE	28
	24.79		9818	EV	29
	25.07		19668	VV	30
	25.26		14396	VV	31
	25.50		20276	VV	32
	25.64		12745	VV	33
AROCLOR-1260-4	25.92	0.0156	19012	VV	34
	26.12		16030	VV	35
	26.29		16244	VV	36
	26.51		7700	VV	37
	26.61		6945	VV	38
AROCLOR-1260-5	26.84	0.0167	43449	VV	39
	27.13		214882	VE	40
	27.94		33702	VV	41
	28.22		18074	VV	42
	28.44		18104	VE	43
	28.91		7627	VV	44
	29.36		10307	VV	45
	29.73		12515	VV	46
	30.18		5019	VV	47
	30.58		14817	VE	48
	32.01		5055	VE	49
	32.55		6908	VE	50

= 0.0175

297

Run Number..23 Page 3

Sample ID: 65110 1X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_023 Analysis Date: 3-MAY-1997 08:57:16

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
DCB	34.41	0.0132	288014	VE	51
	36.63		7104	VB	52

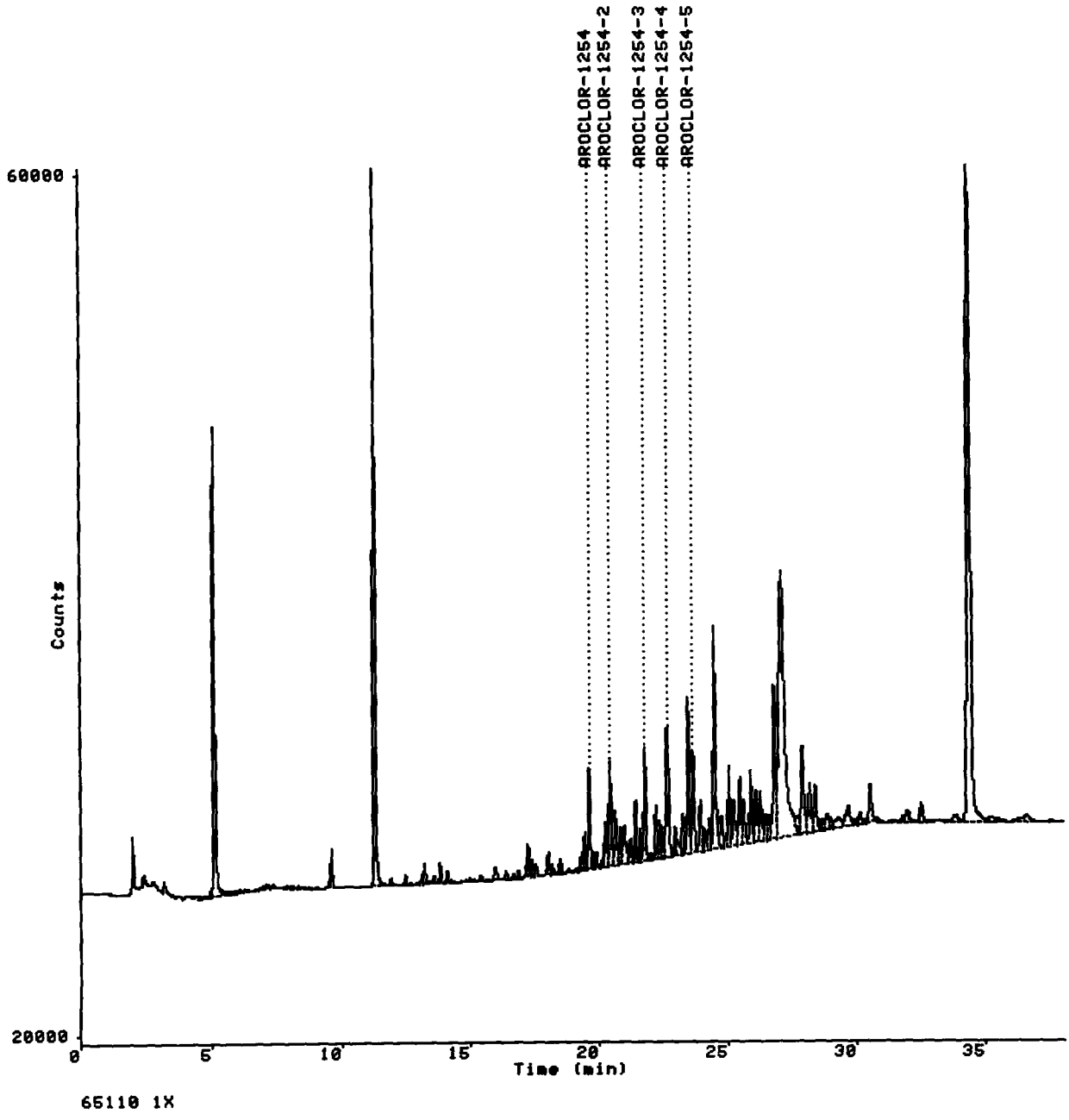
AR1016 average result...-0.00292
AR1260 average result...0.0237

Run Number..... 23 End of Report.

Run Number..... ~~116~~ 23
Sample Name..... 65110 1X
Run Date..... 3-MAY-1997 08:57:16
Raw File..... 5_0502_023
Method Name..... 5_AR1254_0502
Method Type..... Linear

5/6/97

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

Run Number..~~116~~ 23 Page 2 [illegible] 5/6/97

PCB ANALYSIS BY GC/ECD

Sample ID: 65110 1X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_023 Analysis Date: 3-MAY-1997 08:57:16

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	5.12		108170	VE	1
	9.63		7509	VB	2
	11.32		161771	BE	3
	13.24		4703	VE	4
	13.84		4667	VV	5
	14.11		2952	VV	6
	15.98		4166	BB	7
	17.25		8775	BV	8
	17.43		3838	VV	9
	17.55		3508	VE	10
	18.05		6301	BV	11
	18.20		2848	VB	12
	18.52		4410	BB	13
	19.35		4653	VV	14
	19.47		9436	VV	15
AROCLOR-1254	19.64	0.0212	26417	VV	16
	19.89		4275	VV	17
	20.27		14192	VV	18
AROCLOR-1254-2	20.45	0.0138	28676	VV	19
	20.65		16017	VV	20
	20.85		12556	VV	21
	21.00		14758	VV	22
	21.26		5827	VV	23
	21.45		13776	VV	24
	21.62		7277	VV	25
AROCLOR-1254-3	21.81	0.0165	29645	VE	26
	22.24		13260	BV	27
	22.39		9832	VV	28
	22.53		5680	VV	29
AROCLOR-1254-4	22.67	0.0251	46596	VV	30
	22.97		6759	VV	31
	23.07		4976	VV	32
	23.27		10314	VV	33
	23.49		36304	VV	34
AROCLOR-1254-5	23.68	0.0285	28736	VE	35
	23.96		12810	VV	36
	24.06		5645	VV	37
	24.22		5050	VV	38
	24.32		7459	VV	39
	24.50		63099	VE	40
	24.79		9837	EV	41
	24.97		2685	VV	42
	25.07		19712	VV	43
	25.26		14509	VV	44
	25.50		20176	VV	45
	25.64		12803	VV	46
	25.92		19006	VV	47
	26.12		16063	VV	48
	26.29		16259	VV	49
	26.51		7612	VV	50

300

Run Number..~~116~~ 23 Page 3

Sample ID: 65110 1X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_023 Analysis Date: 3-MAY-1997 08:57:16

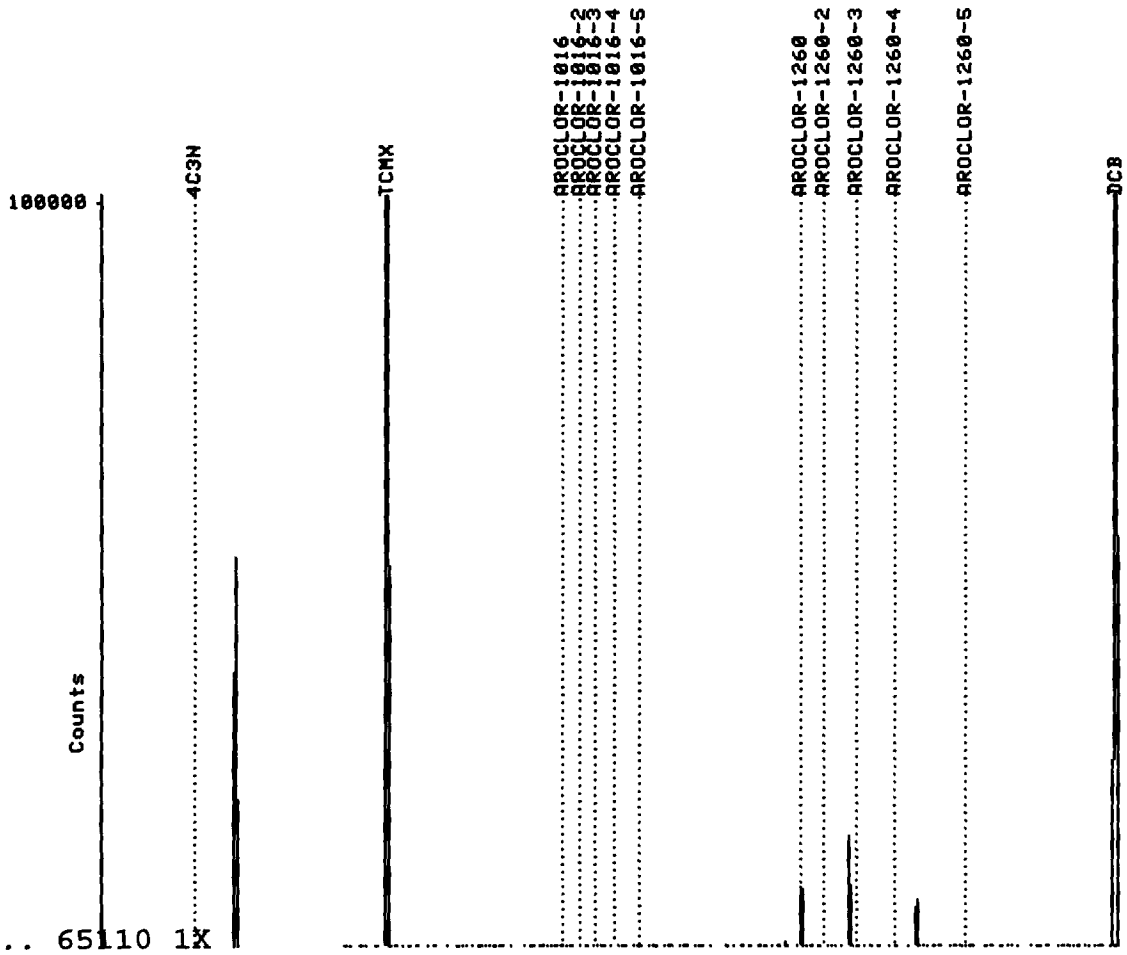
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	26.61		6938	VV	51
	26.84		43009	VV	52
	27.13		215516	VE	53
	27.94		33208	VV	54
	28.22		18410	VV	55
	28.44		18080	VE	56
	28.73		3868	EV	57
	28.91		7379	VV	58
	29.01		3713	VV	59
	29.36		10375	VV	60
	29.73		12474	VV	61
	30.00		2939	VV	62
	30.18		4968	VV	63
	30.58		14653	VE	64
	32.01		4901	VE	65
	32.55		6759	BE	66
	33.88		3318	VV	67
	34.41		286553	VE	68
	35.26		3783	EV	69
	36.63		6907	BB	70

Average result...0.0210 UG/G

Run Number..... ~~116~~ 23 End of Report.

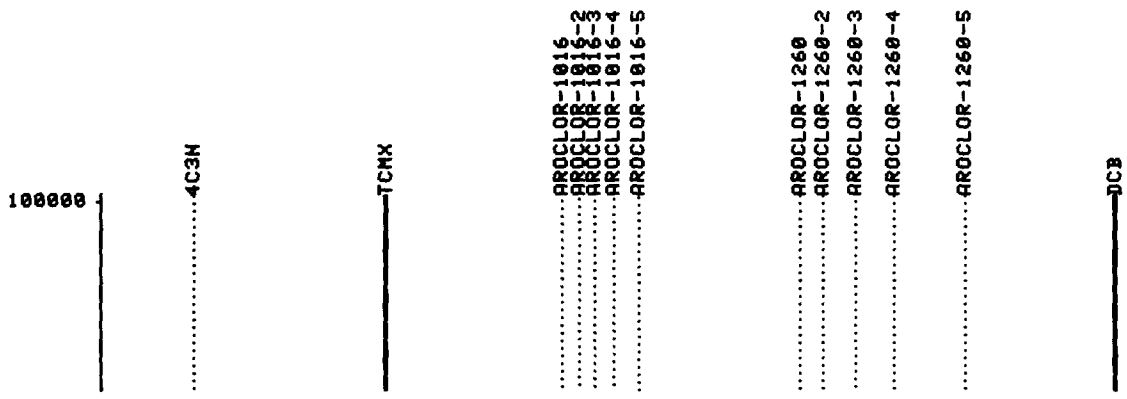
Run Number..... 23
Sample Name..... 65110 1X
Run Date..... 3-MAY-1997 08:57:12
Raw File..... 6_0502_023
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



... 65110 1X
Run Date..... 3-MAY-1997 08:57:12
Raw File..... 6_0502_023
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65110 1X Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_023 Analysis Date: 3-MAY-1997 08:57:12

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	2.26		7641	BV	1
	3.16		7774	VV	2
	3.90		241898	BB	3
	5.14		6899	VV	4
	5.47		5557	VV	5
	6.11		5351	VV	6
	6.57		6189	VV	7
	7.05		8033	VV	8
	7.23		7080	VV	9
	7.82		19975	VV	10
	7.90		5031	VV	11
	8.08		7083	VV	12
TCMX	8.34	0.0117	482502	VE	13
	8.64		12666	EV	14
	8.83		11495	EV	15
	8.91		19961	EV	16
	9.25		9538	VV	17
	9.40		7904	VV	18
	9.55		17723	VV	19
	9.71		17049	VV	20
	9.82		29441	VV	21
	10.12		23951	VV	22
	10.20		14352	VV	23
	10.46		38775	VV	24
	10.83		20178	VV	25
	11.07		8452	VV	26
	11.20		17236	VV	27
	11.35		7067	VV	28
	11.52		16329	VV	29
	11.76		20238	VV	30
	12.03		24487	VV	31
	12.44		21263	VV	32
	12.89		24697	VV	33
	12.97		16220	VV	34
	13.18		12428	VV	35
AROCLOR-1016	13.51	-0.00835	34843	VV	36
	13.78		10764	VV	37
	13.96		10242	VV	38
AROCLOR-1016-2	14.02	-0.0101	11433	VV	39
	14.20		16545	VV	40
	14.35		6005	VV	41
AROCLOR-1016-3	14.47	-0.00531	10865	VV	42
	14.72		41050	VV	43
	14.88		20630	VV	44
AROCLOR-1016-4	14.98	0.0339	22720	VV	45
	15.22		11216	VV	46
	15.37		8375	VV	47
	15.45		19617	VV	48
AROCLOR-1016-5	15.78	0.00587	31408	VV	49
	15.92		18330	VV	50

Sample ID: 65110 1X Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_023 Analysis Date: 3-MAY-1997 08:57:12

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	16.15		12258	VV	51
	16.25		18831	VV	52
	16.38		13855	VV	53
	16.46		7425	VV	54
	16.58		6188	VV	55
	16.70		30546	VV	56
	16.90		33566	VV	57
	17.09		37997	VV	58
	17.29		61091	VV	59
	17.47		33709	VV	60
	17.56		14196	VV	61
	17.70		80044	VV	62
	17.93		32855	VV	63
	18.02		43889	VE	64
	18.22		11739	EV	65
	18.37		38881	VV	66
	18.58		13041	VV	67
	18.81		27985	VV	68
	18.91		18654	VV	69
	19.05		41007	VV	70
	19.26		32826	VV	71
	19.43		102939	VV	72
	19.59		15676	VV	73
	19.75		49175	VV	74
	20.02		64532	VV	75
	20.10		91771	VV	76
	20.34		29625	VV	77
AROCLOR-1260	20.58	0.0285	130674	VV	78
	20.87		39375	VV	79
	21.06		10896	VV	80
AROCLOR-1260-2	21.23	0.0175	41487	VV	81
	21.40		55066	VV	82
	21.46		41462	VV	83
	21.57		26744	VV	84
	21.85		74387	VV	85
	21.99		138118	VV	86
AROCLOR-1260-3	22.21	0.0157	54614	VV	87
	22.41		47145	VV	88
	22.56		15341	VV	89
	22.72		11659	VV	90
	22.88		15222	VV	91
	23.14		9625	VV	92
AROCLOR-1260-4	23.37	0.0244	81042	VV	93
	23.65		75924	VV	94
	23.83		16230	VV	95
	24.00		103923	VE	96
	24.13		17713	EV	97
	24.39		9136	VV	98
	24.58		10148	VV	99
	24.78		7641	VV	100
	25.06		7157	VV	101

Sample ID: 65110 1X Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_023 Analysis Date: 3-MAY-1997 08:57:12

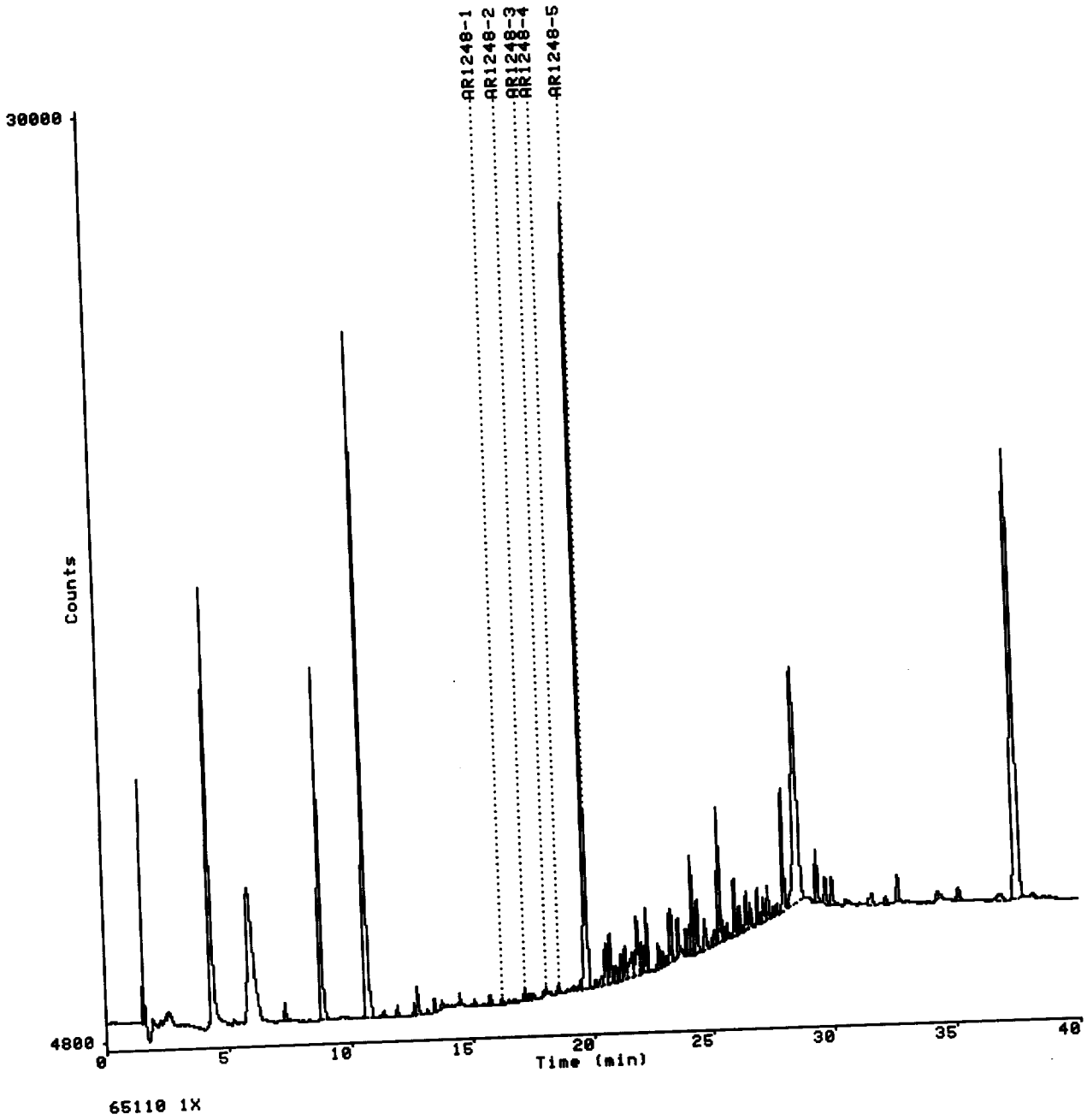
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.30		43644	VV	102
AROCLOR-1260-5	25.46	0.0176	72775	VE	103
	25.84		6004	EV	104
	25.98		15219	VV	105
	26.45		15360	VV	106
	26.61		10675	VV	107
	26.81		7996	VV	108
	26.95		18786	VV	109
	27.23		48209	VE	110
	27.56		18505	EV	111
	27.68		8776	VV	112
	27.84		7558	VV	113
	28.02		9051	VV	114
	28.17		7062	VV	115
	28.31		9198	VV	116
	28.55		30117	VE	117
	28.75		5587	EV	118
	29.09		20266	VV	119
	29.27		11027	VV	120
	29.50		10735	VV	121
DCB	29.85	0.0133	628546	VE	122
	30.05		21983	EV	123
	30.21		11403	EB	124
	30.69		17415	BV	125
	30.94		5644	VV	126
	31.15		7435	VE	127
	33.91		15048	BB	128

AR1016 average result...0.00320
AR1260 average result...0.0207

Run Number..... 23 End of Report.

Run Number..... 17
Sample Name..... 65110 1X
Run Date..... 6-MAY-1997 11:27:02
Raw File..... 10_0505_017
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65110 1X
Datafile: 10_0505_017

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 11:27:02

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.30		2302	BB	1
	8.80		47249	BB	2
	10.64		95405	BB	3
	11.34		608	BB	4
	11.90		1288	BB	5
	12.60		1536	BV	6
	12.73		4022	VB	7
	13.16		594	BB	8
	13.43		1794	BB	9
	13.74		993	BB	10
	14.49		1279	BB	11
	15.10		778	BB	12
	15.74		1906	BB	13
AR1248-1	16.23	0.00470	975	BB	14
	16.52		621	BB	15
	16.75		513	BB	16
AR1248-2	17.18	0.00497	1334	BB	17
	17.38		828	BV	18
	17.51		983	VB	19
AR1248-3	18.06	0.00139	870	VB	20
AR1248-4	18.59	0.00240	1604	BB	21
	19.24		555	VV	22
	19.52		1800	VV	23
AR1248-5	19.74	0.328	111529	VB	24
	20.13		969	BV	25
	20.39		2478	VV	26
	20.56		6790	VV	27
	20.75		7865	VV	28
	20.98		2070	VB	29
	21.19		3743	BV	30
	21.37		5348	VV	31
	21.66		8002	VV	32
	21.88		11692	VV	33
	22.06		6113	VV	34
	22.28		9177	VB	35
	22.76		3622	BV	36
	22.94		1995	VB	37
	23.09		979	BV	38
	23.27		11668	VB	39
	23.60		4714	BB	40
	23.93		3277	BB	41
	24.17		12615	BB	42
	24.40		8501	BB	43
	24.71		4513	VE	44
	24.82		522	EB	45
	25.00		1105	BV	46
	25.10		2036	VB	47
	25.31		20331	BE	48
	25.42		1509	EV	49
	25.64		2633	VB	50

Sample ID: 65110 1X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_017 Analysis Date: 6-MAY-1997 11:27:02

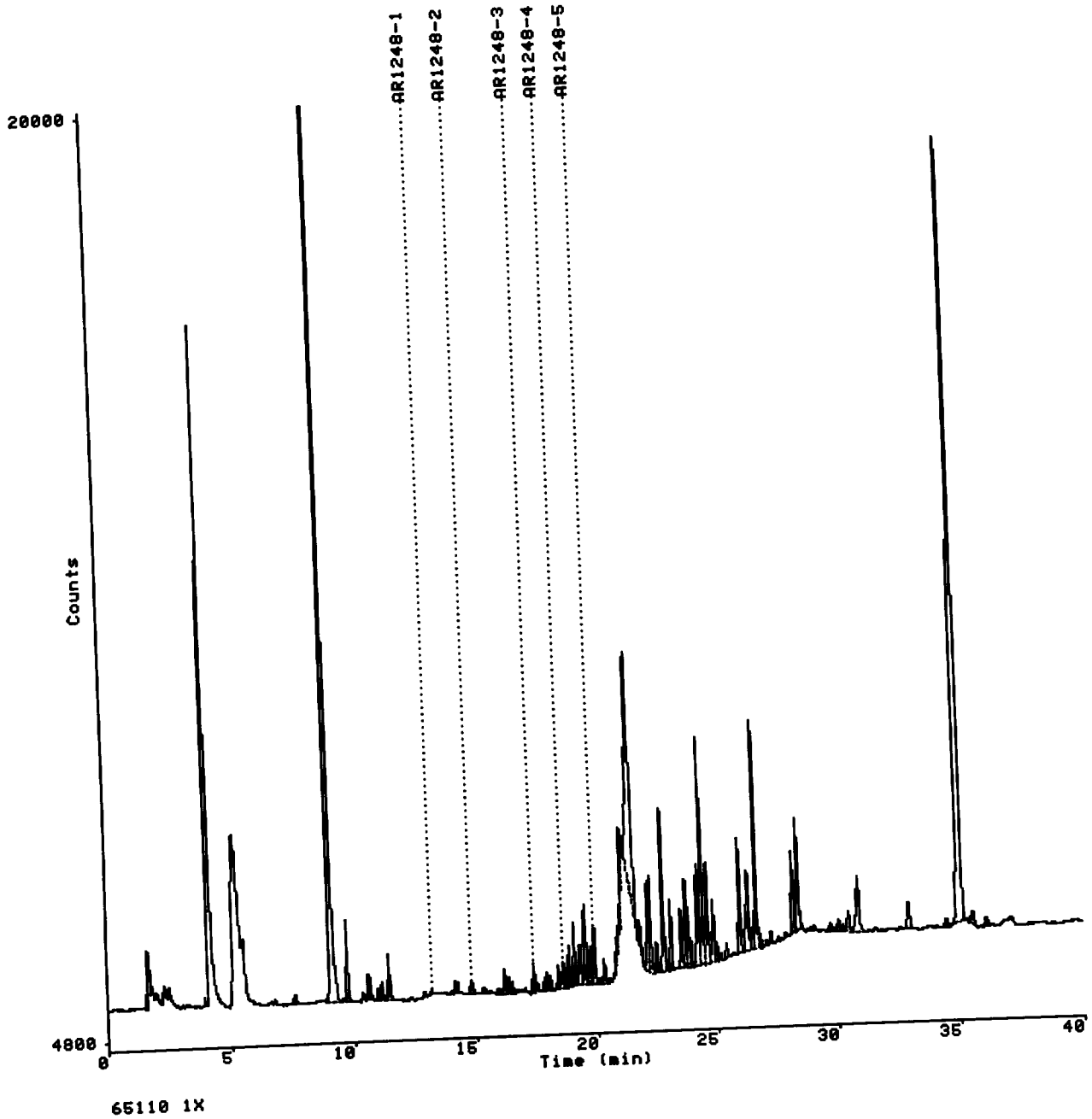
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.96		7428	VB	51
	26.17		4309	BV	52
	26.44		6989	VV	53
	26.60		4074	VB	54
	26.91		4742	BB	55
	27.14		4035	BV	56
	27.34		5100	VB	57
	27.59		1365	BV	58
	27.72		1559	VB	59
	28.00		18360	BE	60
	28.24		2082	EV	61
	28.55		84089	VB	62
	29.37		9248	BB	63
	29.73		3953	BB	64
	30.00		4800	BE	65
	30.58		805	BB	66
	31.63		2873	BB	67
	32.20		1313	BB	68
	32.70		5171	BB	69
	34.33		1409	BB	70
	35.19		2871	BB	71
	36.88		2001	BB	72
	37.55		124104	BB	73

Average result...0.0683 UG/G

Run Number..... 17 End of Report.

Run Number..... 17
Sample Name..... 65110 1X
Run Date..... 6-MAY-1997 11:27:02
Raw File..... 11_0505_017
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65110 1X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_017 Analysis Date: 6-MAY-1997 11:27:02

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.61		634	VB	1
	9.05		99320	VV	2
	9.74		5251	VB	3
	10.37		789	BV	4
	10.60		1869	VV	5
	10.66		1589	VB	6
	11.00		783	BV	7
	11.15		1392	VV	8
	11.44		3767	VB	9
	14.17		832	BV	10
	14.25		766	VB	11
AR1248-2	14.84	-0.00158	1218	BB	12
	16.19		1671	BV	13
	16.30		559	VV	14
	16.38		1176	VV	15
	16.49		735	VV	16
AR1248-3	17.40	0.00363	2579	BV	17
	17.56		702	VB	18
	17.92		1190	VV	19
	18.04		1787	VB	20
	18.42		1646	VV	21
AR1248-4	18.64	0.00314	2589	VB	22
	18.86		2891	BB	23
	19.08		4437	BB	24
	19.32		4196	BV	25
	19.54		7797	VV	26
	19.70		2084	VV	27
	19.80		2699	VV	28
AR1248-5	19.93	0.0127	5462	VB	29
	20.32		1879	VB	30
	20.80		552	BB	31
	20.90		956	BB	32
	21.07		4435	BB	33
	21.49		45675	BB	34
	21.80		2967	BB	35
	22.14		6932	BV	36
	22.24		8016	VB	37
	22.50		2125	BV	38
	22.61		517	VV	39
	22.76		13184	VE	40
	22.86		1426	EV	41
	23.09		5158	VB	42
	23.51		4254	BV	43
	23.71		7010	VV	44
	23.80		3985	VV	45
	23.92		2227	VB	46
	24.21		9742	BV	47
	24.37		19760	VV	48
	24.61		8802	VV	49
	24.84		6029	VV	50

Sample ID: 65110 1X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_017 Analysis Date: 6-MAY-1997 11:27:02

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	24.99		1473	VV	51
	25.14		560	VB	52
	25.38		1158	BB	53
	25.94		9661	BV	54
	26.28		10483	VV	55
	26.46		1765	VV	56
	26.62		18304	VE	57
	26.74		1107	EV	58
	27.04		604	BV	59
	27.25		1254	VB	60
	28.16		7400	BV	61
	28.37		10492	VE	62
	28.48		790	EB	63
	29.72		752	BV	64
	30.07		1353	VV	65
	30.24		677	VV	66
	30.46		2220	VV	67
	30.86		7290	VB	68
	32.94		3050	BB	69
	34.48		798	BB	70
	35.02		109683	BB	71
	35.55		1888	BB	72
	36.13		1093	BB	73
	41.53		2183	BB	74

Average result...0.00287 UG/G

Run Number..... 17 End of Report.

TEST CODE :SPCB 1

JOB NUMBER :9700.860
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : 8081 PCB
SAMPLE ID LAB : EE-97-65111
SAMPLE ID CLIENT: Q206

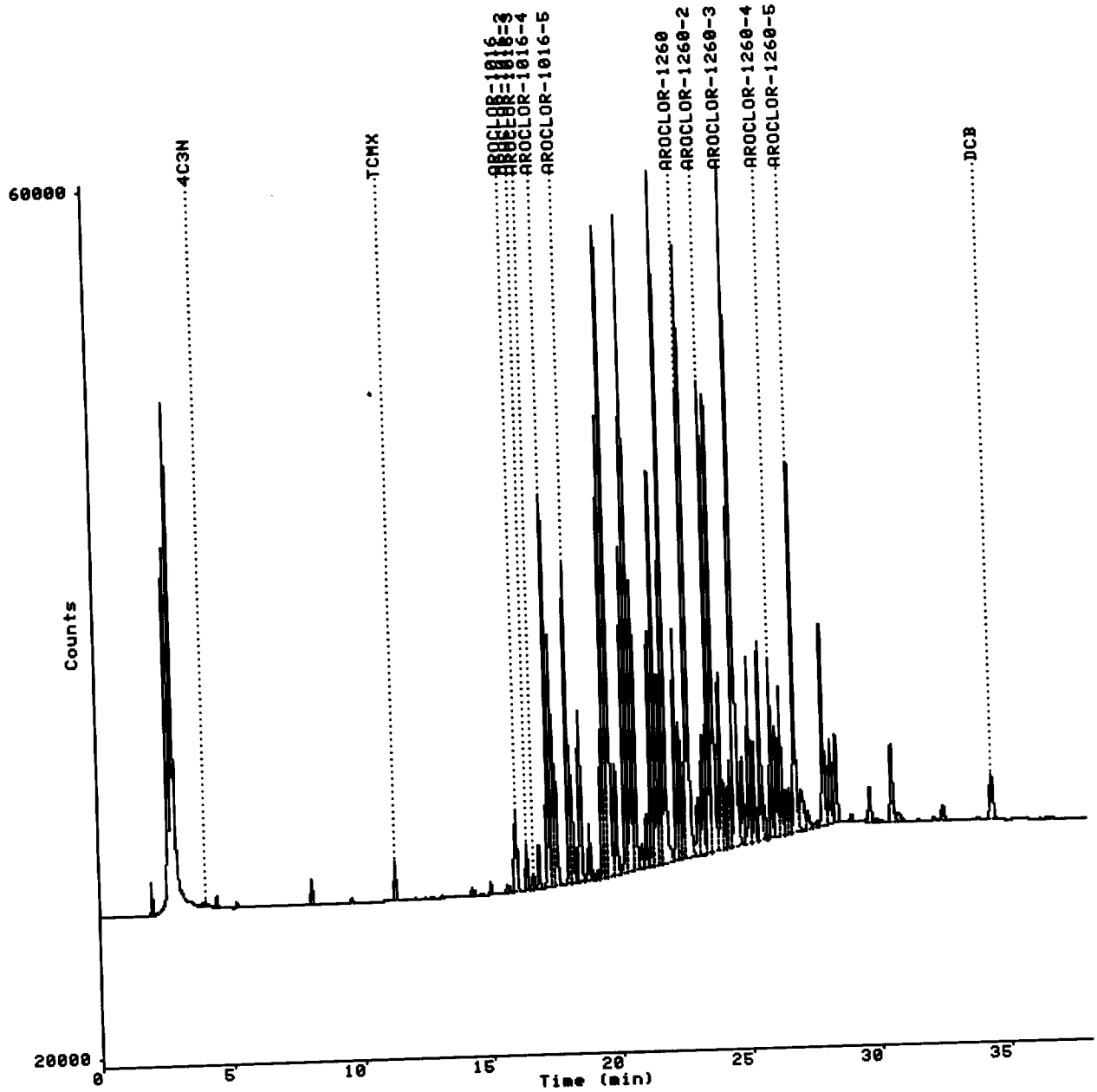
%SOLIDS : 66 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.61
PCB-1254	4.2		0.61
PCB-1221	ND		1.2
PCB-1232	ND		0.61
PCB-1248	2.6		0.61
PCB-1260	1.9		0.61
PCB-1016	ND		0.61

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Run Number..... 24
Sample Name..... 65111 20X
Run Date..... 3-MAY-1997 09:39:37
Raw File..... 5_0502_024
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65111 20X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 20

Entered Conversion Factor..200
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65111 20X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_024 Analysis Date: 3-MAY-1997 09:39:37

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	8.10		5130	BE	1
TCMX	11.32	0.00651	8369	BE	2
AROCLOR-1016	16.00	0.153	27050	BB	3
AROCLOR-1016-2	16.40	0.115	10630	BV	4
	16.88		9419	BB	5
AROCLOR-1016-4	17.25	4.22	91844	BV	6
	17.42		57638	VV	7
	17.56		35245	VB	8
AROCLOR-1016-5	18.05	3.10	74043	BV	9
	18.19		26536	VV	10
	18.51		54593	VV	11
	18.84		14359	VE	12
	19.34		31744	VV	13
	19.47		106032	VV	14
	19.63		175676	VV	15
	19.89		29442	VV	16
	20.25		85695	VV	17
	20.44		160634	VV	18
	20.65		70884	VE	19
	20.88		7782	EV	20
	21.07		13249	VV	21
	21.26		55409	VV	22
	21.44		92775	VV	23
	21.62		43303	VV	24
	21.80		190421	VV	25
	22.24		56900	VV	26
	22.39		33247	VV	27
	22.53		16930	VV	28
AROCLOR-1260	22.70	4.01	215992	VE	29
	23.07		21849	EV	30
	23.26		33098	EV	31
AROCLOR-1260-2	23.48	1.83	111276	VV	32
	23.68		131441	VV	33
	23.96		44422	VV	34
	24.06		14261	VV	35
	24.22		13380	VV	36
	24.31		20352	VV	37
AROCLOR-1260-3	24.50	2.63	200143	VE	38
	24.80		24077	EV	39
	25.07		46689	VV	40
	25.25		24043	VV	41
	25.50		52437	VE	42
	25.65		7635	EV	43
AROCLOR-1260-4	25.92	0.926	41605	VV	44
	26.12		27389	VV	45
	26.29		39476	VV	46
	26.50		11150	VV	47
	26.61		11051	VV	48
AROCLOR-1260-5	26.84	0.940	94765	VE	49
	27.09		22497	EV	50

05/6/97 = 1.23
pre 2,4,5

Sample ID: 65111 20X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_024 Analysis Date: 3-MAY-1997 09:39:37

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	27.32		7058	VV	51
	27.94		62103	VV	52
	28.22		24214	VV	53
	28.44		25058	VB	54
	29.74		10718	BE	55
	30.58		26442	BE	56
	32.55		5717	VB	57
DCB	34.41	-8.46E-04	18495	VB	58

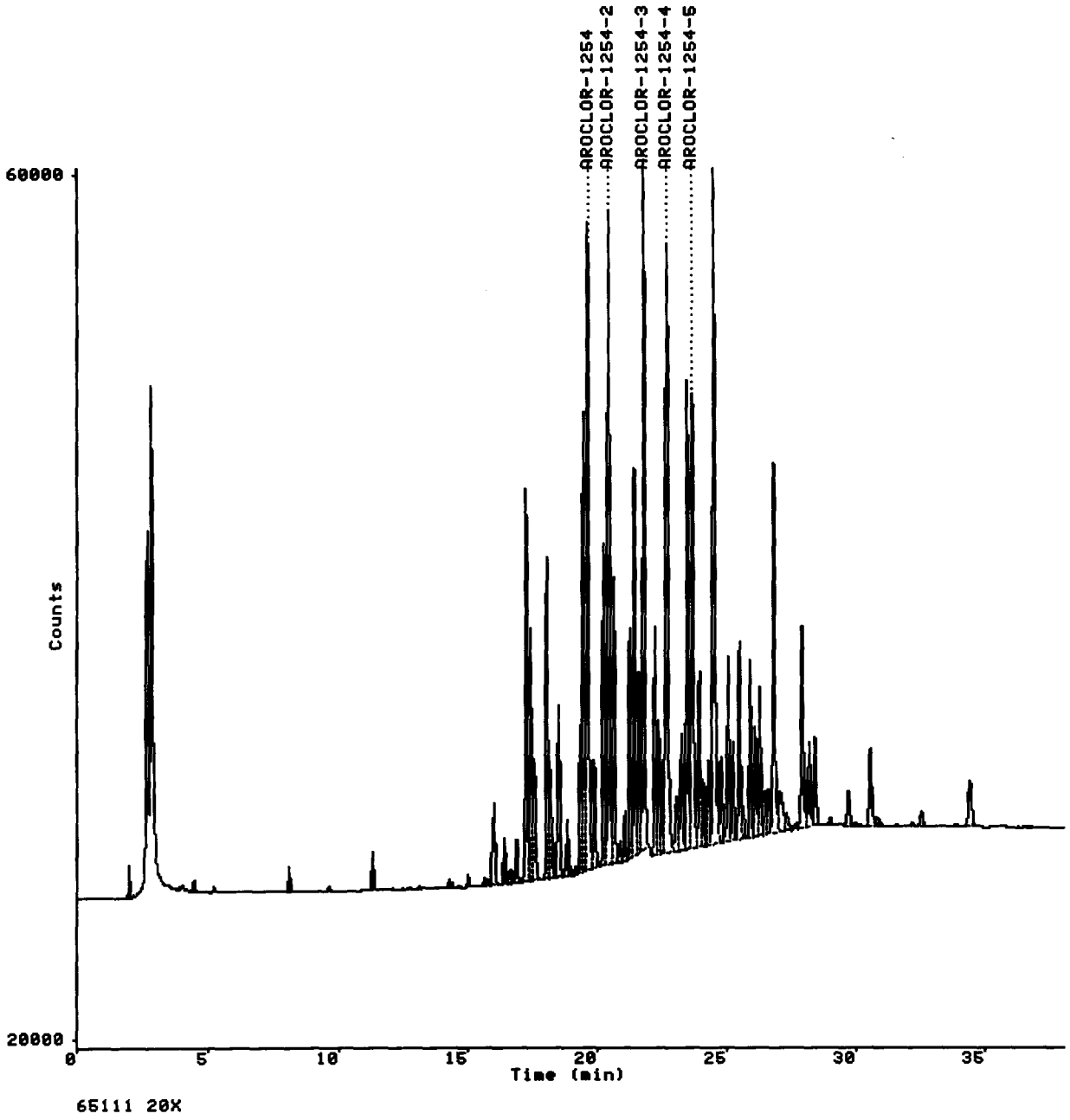
AR1016 average result...1.51
AR1260 average result...2.07

Run Number..... 24 End of Report.

Run Number..... ~~117~~ 24
Sample Name..... 65111 20X
Run Date..... 3-MAY-1997 09:39:37
Raw File..... 5_0502_024
Method Name..... 5_AR1254_0502
Method Type..... Linear

5/12/97

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65111 20X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 20

Entered Conversion Factor..200
Entered Sample Amount.....30.0

Run Number..~~117~~ 24 Page 2 5/6/97

PCB ANALYSIS BY GC/ECD

Sample ID: 65111 20X
Datafile: 5_0502_024

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 09:39:37

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	8.10		5113	BE	1
	11.32		8121	BB	2
	15.00		2504	BB	3
	16.00		27034	BB	4
	16.40		10639	BV	5
	16.67		2822	VB	6
	16.88		9452	BB	7
	17.25		91890	BV	8
	17.42		57296	VV	9
	17.56		35518	VB	10
	18.05		73785	BV	11
	18.19		26790	VV	12
	18.51		54597	VV	13
	18.84		14358	VE	14
	19.34		31488	VV	15
	19.47		105371	VV	16
AROCLOR-1254	19.63	4.14	173983	VV	17
	19.89		26515	VB	18
	20.25		83017	BV	19
AROCLOR-1254-2	20.44	2.67	158317	VV	20
	20.65		68268	VE	21
	20.88		5836	EV	22
	21.07		11238	VB	23
	21.26		52723	BV	24
	21.44		88918	VV	25
	21.62		39391	VV	26
AROCLOR-1254-3	21.80	2.63	177194	VB	27
	22.24		54081	BV	28
	22.39		31413	VV	29
	22.53		16153	VV	30
AROCLOR-1254-4	22.70	2.98	211758	VE	31
	23.07		19017	EV	32
	23.26		30623	EV	33
	23.48		109228	VV	34
AROCLOR-1254-5	23.68	2.93	128833	VV	35
	23.96		41987	VV	36
	24.06		13905	VV	37
	24.22		12553	VV	38
	24.31		19024	VV	39
	24.50		197352	VE	40
	24.80		22706	EV	41
	25.07		44835	VV	42
	25.25		22627	VV	43
	25.50		50809	VE	44
	25.65		6697	EV	45
	25.92		40337	VV	46
	26.12		26476	VV	47
	26.29		38445	VV	48
	26.50		10535	VV	49
	26.61		10429	VV	50

5/6/97 Ave 2.5 = 2.80

318

Run Number..1~~7~~ 24 Page 3

Sample ID: 65111 20X
Datafile: 5_0502_024

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 09:39:37

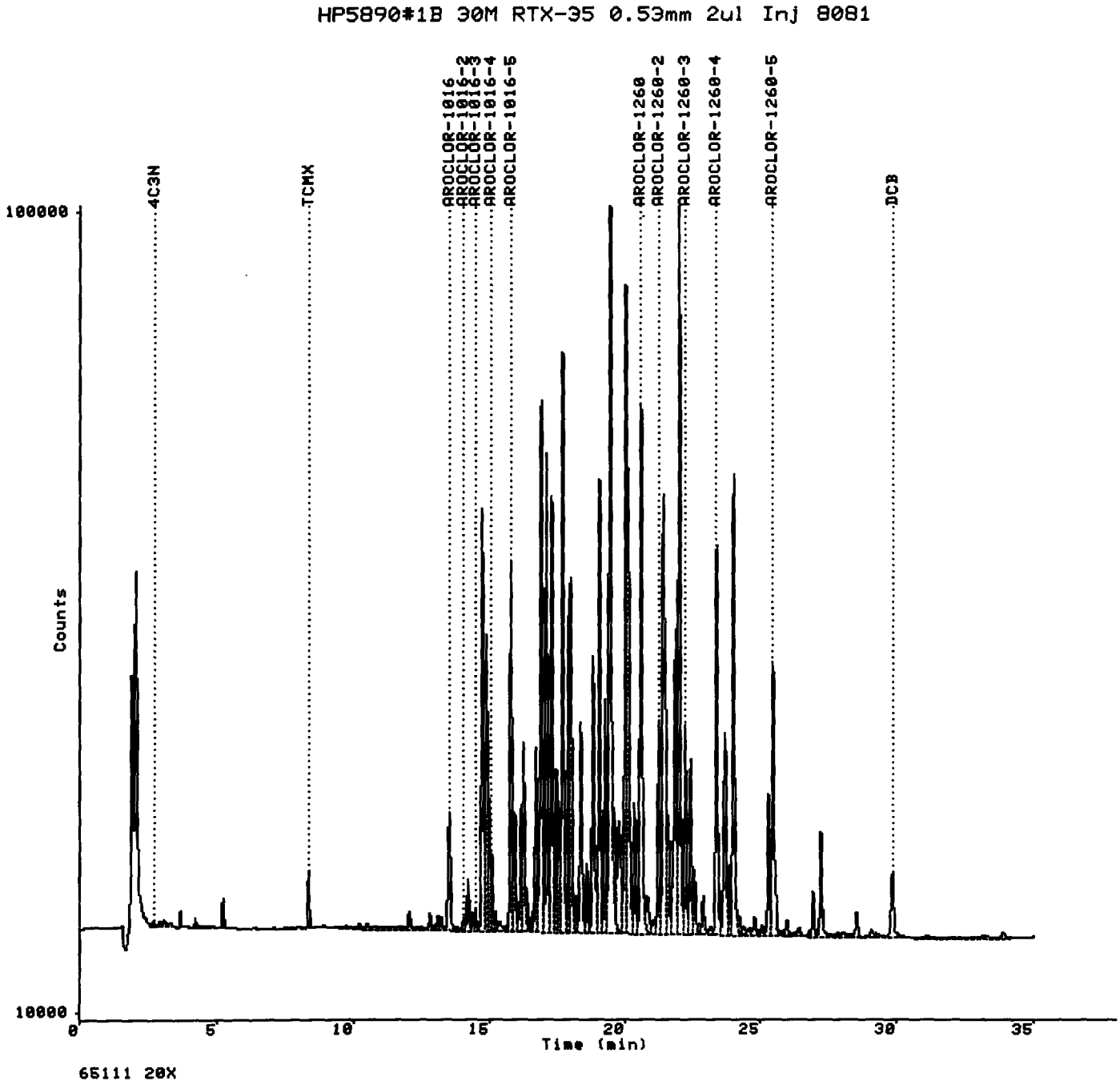
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	26.84		93719	VE	51
	27.09		21651	EV	52
	27.32		6385	VV	53
	27.73		3744	VV	54
	27.94		61074	VV	55
	28.22		24455	VV	56
	28.44		24877	VB	57
	29.74		10701	BE	58
	30.58		26368	BE	59
	30.86		4029	EB	60
	32.55		5682	VB	61
	34.41		18325	BB	62

Average result...3.07 UG/G

Run Number..... 1~~7~~ 24 End of Report.

5/2/97

Run Number..... 24
Sample Name..... 65111 20X
Run Date..... 3-MAY-1997 09:39:36
Raw File..... 6_0502_024
Method Name..... 6_AR1660_0502
Method Type..... Linear



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 20

Entered Conversion Factor..200
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65111 20X
Datafile: 6_0502_024

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 09:39:36

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	3.08		5530	VV	1
	3.67		6148	BE	2
	5.21		14554	BE	3
TCMX	8.33	-0.00466	26877	VE	4
	12.03		11636	VE	5
	12.80		9132	VV	6
	13.09		7358	VV	7
	13.20		6281	VV	8
AROCLOR-1016	13.50	0.104	82075	VE	9
AROCLOR-1016-2	14.03	-0.255	7376	EV	10
	14.19		28066	VV	11
	14.35		9149	VV	12
AROCLOR-1016-3	14.47	-0.0990	11248	VV	13
	14.72		245171	VV	14
	14.88		179241	VV	15
	14.97		49010	VV	16
AROCLOR-1016-4	15.07	1.38	37604	VV	17
	15.21		10914	VV	18
	15.36		8177	VV	19
AROCLOR-1016-5	15.78	2.81	209577	VV	20
	15.92		62502	VV	21
	16.15		63375	VV	22
	16.25		106082	VE	23
	16.35		16841	EV	24
	16.58		9942	VV	25
	16.70		102759	VV	26
	16.90		320379	VV	27
	17.09		260873	VV	28
	17.29		248288	VV	29
	17.46		89343	VV	30
	17.56		62140	VV	31
	17.69		340818	VV	32
	17.93		169156	VV	33
	17.99		183793	VE	34
	18.15		20714	EV	35
	18.37		127154	VV	36
	18.59		39246	VV	37
	18.81		179932	VV	38
	19.05		247042	VV	39
	19.26		126926	VV	40
	19.43		570742	VE	41
	19.60		44307	EV	42
	19.75		116332	EV	43
	20.01		400452	VV	44
	20.10		275470	VV	45
	20.34		78814	VV	46
AROCLOR-1260	20.58	2.00	339898	VE	47
	20.81		31263	EV	48
	21.05		10476	VV	49
AROCLOR-1260-2	21.23	1.44	114713	VV	50

Sample ID: 65111 20X Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_024 Analysis Date: 3-MAY-1997 09:39:36

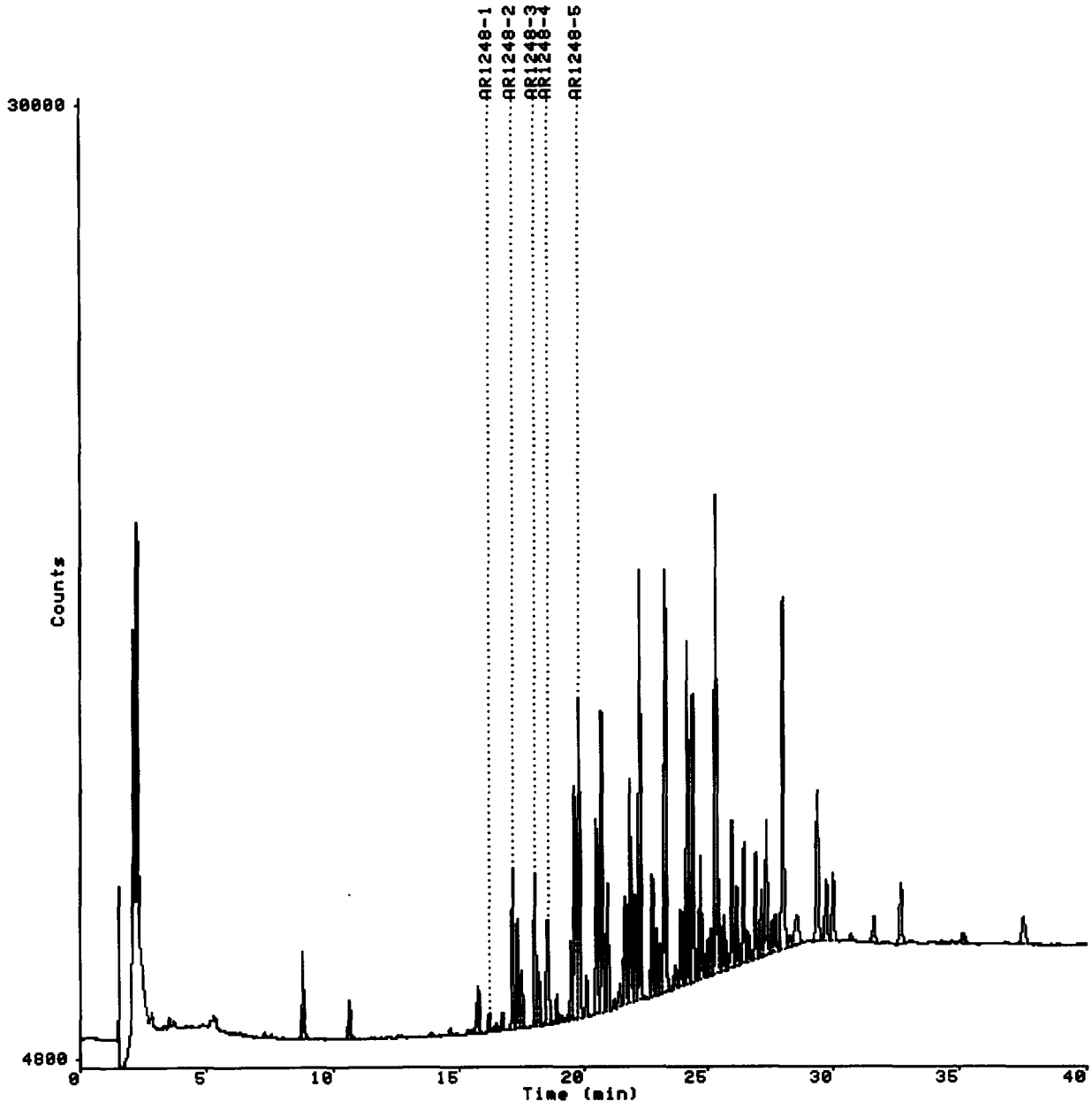
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	21.40		378588	VV	51
	21.58		64916	VV	52
	21.85		207983	VV	53
	21.99		431502	VV	54
AROCLOR-1260-3	22.21	1.05	122803	VV	55
	22.41		102550	VV	56
	22.56		37706	VE	57
	22.72		6113	EV	58
	22.88		24097	VE	59
	23.14		7117	EV	60
AROCLOR-1260-4	23.37	1.74	218443	VV	61
	23.69		159010	VV	62
	23.83		36695	VV	63
	24.00		266815	VE	64
	24.22		13842	EV	65
	24.38		6792	EV	66
	24.58		5577	VV	67
	24.78		12706	VV	68
	25.06		7184	VV	69
	25.30		78594	VV	70
AROCLOR-1260-5	25.47	1.04	176986	VE	71
	25.99		10983	EV	72
	26.45		6151	VE	73
	26.95		23706	VV	74
	27.24		63401	VE	75
	28.07		6022	VV	76
	28.55		15379	VV	77
	29.10		7787	VV	78
	29.26		6022	VV	79
DCB	29.85	0.00864	53216	VE	80
	33.90		7287	VB	81

AR1016 average result...0.787
AR1260 average result...1.45

Run Number..... 24 End of Report.

Run Number..... 18
Sample Name..... 65111 20X
Run Date..... 6-MAY-1997 12:13:17
Raw File..... 10_0505_018
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



65111 20X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 20

Entered Conversion Factor..200
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65111 20X
Datafile: 10_0505_018

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 12:13:17

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.30		644	BB	1
	8.80		10925	BB	2
	10.64		4841	BB	3
	14.67		838	BB	4
	15.78		8642	BB	5
	16.22		2602	BB	6
AR1248-1	16.52	0.386	1118	VB	7
	16.75		2328	BE	8
	17.17		20774	VV	9
AR1248-2	17.37	2.44	14095	VV	10
	17.51		9334	VB	11
	18.06		19863	BV	12
AR1248-3	18.22	1.73	7559	VB	13
	18.58		19168	BB	14
AR1248-4	18.94	1.20	3845	BB	15
	19.12		840	BE	16
	19.35		778	VV	17
	19.51		9745	VV	18
	19.65		34804	VV	19
	19.83		49069	VV	20
AR1248-5	20.12	2.87	5327	VB	21
	20.52		28095	BV	22
	20.74		39078	VV	23
	20.97		15947	VB	24
	21.23		1391	BV	25
	21.44		3373	VV	26
	21.66		14281	VV	27
	21.87		30644	VV	28
	22.06		13639	VV	29
	22.27		56069	VB	30
	22.76		16384	BV	31
	22.93		8958	VV	32
	23.09		6323	VV	33
	23.29		71259	VV	34
	23.69		3959	VV	35
	23.78		1977	VV	36
	23.92		10865	VV	37
	24.17		42459	VV	38
	24.40		43281	VV	39
	24.70		16640	VE	40
	24.82		2058	EV	41
	25.00		4519	VV	42
	25.10		5839	VV	43
	25.31		68700	VE	44
	25.42		6746	EV	45
	25.64		8981	VV	46
	25.95		19941	VV	47
	26.16		10514	VV	48
	26.44		18849	VV	49
	26.61		4430	VV	50

Run Number..18 Page 3

Sample ID: 65111 20X
Datafile: 10_0505_018

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 12:13:17

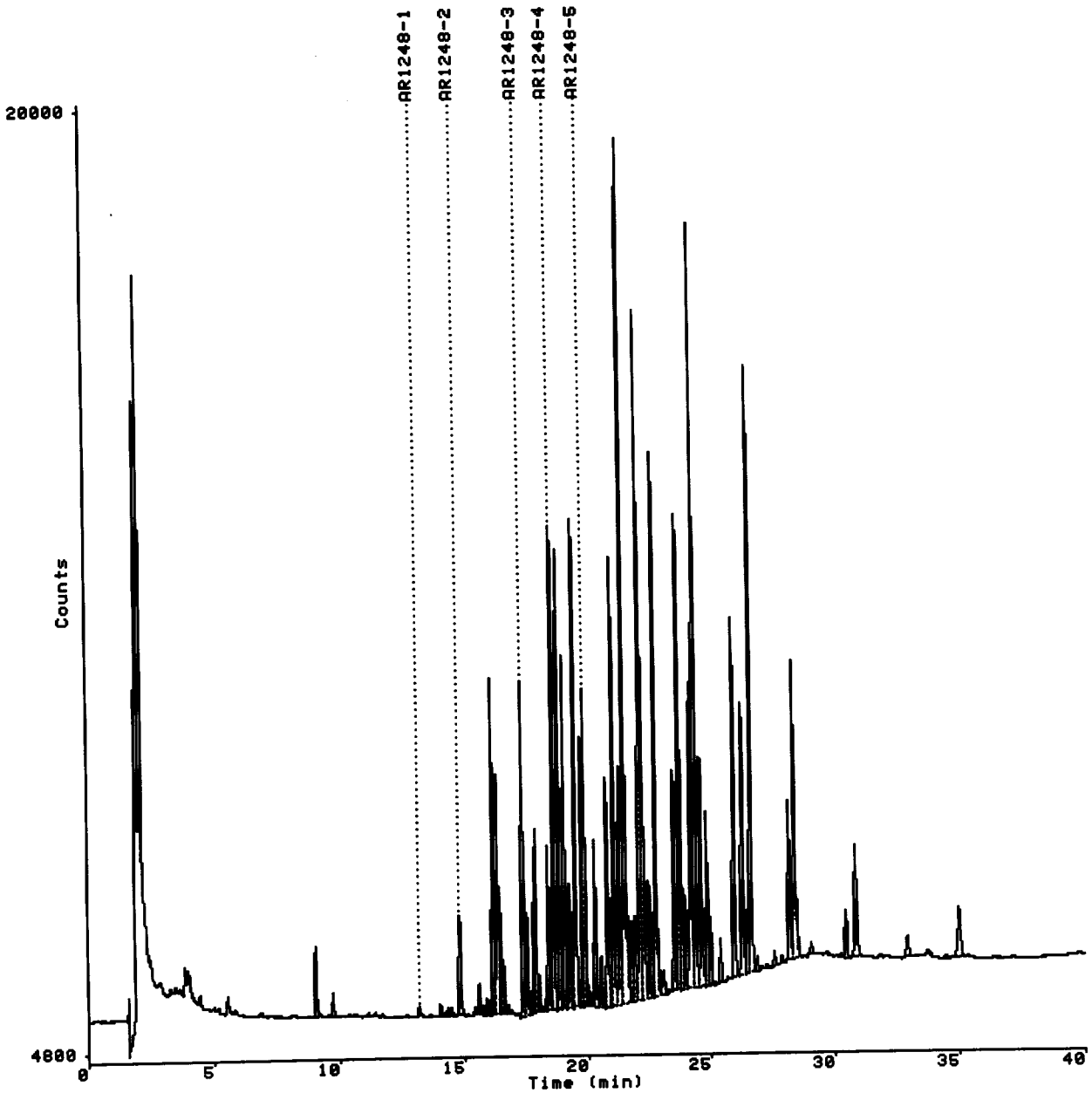
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	26.91		14381	VV	51
	27.14		9385	VV	52
	27.34		19910	VV	53
	27.58		4697	VV	54
	27.71		5090	VV	55
	27.99		52124	VE	56
	28.29		2389	EV	57
	28.57		9464	EB	58
	29.36		26737	BV	59
	29.58		570	VV	60
	29.73		9706	VV	61
	30.00		11499	VB	62
	30.72		1049	BB	63
	31.63		5031	BB	64
	32.70		11589	BB	65
	35.18		2152	BB	66
	37.55		6702	BB	67

Average result...1.72 UG/G

Run Number..... 18 End of Report.

Run Number..... 18
Sample Name..... 65111 20X
Run Date..... 6-MAY-1997 12:13:21
Raw File..... 11_0505_018
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



65111 20X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 20

Entered Conversion Factor..200
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65111 20X
Datafile: 11_0505_018

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 6-MAY-1997 12:13:21

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	9.05		5398	BB	1
	9.73		1392	BB	2
AR1248-1	13.18	0.0179	799	BB	3
	14.04		687	BB	4
	14.36		570	VV	5
	14.49		521	VB	6
AR1248-2	14.84	0.459	9660	BB	7
	15.61		1872	BB	8
	15.79		551	BV	9
	15.93		1039	VB	10
	16.19		24758	BV	11
	16.37		19892	VV	12
	16.48		6710	VV	13
	16.60		3712	VV	14
	16.76		633	VV	15
AR1248-3	17.39	1.75	26109	BV	16
	17.55		7578	VE	17
	17.81		7833	VV	18
	17.91		13322	VE	19
	18.05		2102	EB	20
	18.28		794	BV	21
	18.42		11708	VV	22
AR1248-4	18.63	1.95	37473	VV	23
	18.86		32694	VV	24
	19.08		25781	VV	25
	19.26		9156	VV	26
	19.40		6722	VV	27
	19.52		36927	VV	28
	19.79		19580	VV	29
AR1248-5	19.89	1.32	24235	VE	30
	20.05		1250	EB	31
	20.31		12536	BV	32
	20.54		3460	VB	33
	20.79		18396	BE	34
	20.95		2587	EV	35
	21.06		34196	VV	36
	21.31		18947	VV	37
	21.49		76516	VE	38
	21.68		5432	EV	39
	21.86		7893	EV	40
	21.91		6018	VV	41
	22.13		53928	VV	42
	22.24		33818	VV	43
	22.49		8682	VV	44
	22.76		41402	VE	45
	22.86		2905	EV	46
	23.08		2805	EB	47
	23.51		15824	BV	48
	23.71		36270	VV	49
	23.79		14442	VV	50

Sample ID: 65111 20X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_018 Analysis Date: 6-MAY-1997 12:13:21

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	23.91		7474	VV	51
	24.20		29234	VV	52
	24.36		58025	VV	53
	24.60		17980	VV	54
	24.84		13693	VV	55
	24.99		4981	VE	56
	25.37		3075	BB	57
	25.93		28872	BV	58
	26.28		25822	VV	59
	26.46		4739	VV	60
	26.61		47096	VE	61
	26.74		920	EV	62
	26.86		1023	EB	63
	27.55		1042	BB	64
	27.86		558	BB	65
	28.16		14334	BV	66
	28.37		27718	VE	67
	28.47		2156	EB	68
	29.04		1240	BB	69
	30.46		4404	BB	70
	30.86		11646	BB	71
	32.93		2229	BB	72
	35.01		6675	BB	73
	41.52		530	BB	74

Average result...1.10 UG/G

Run Number..... 18 End of Report.

TEST CODE :SPCB 1 JOB NUMBER :9700.860
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

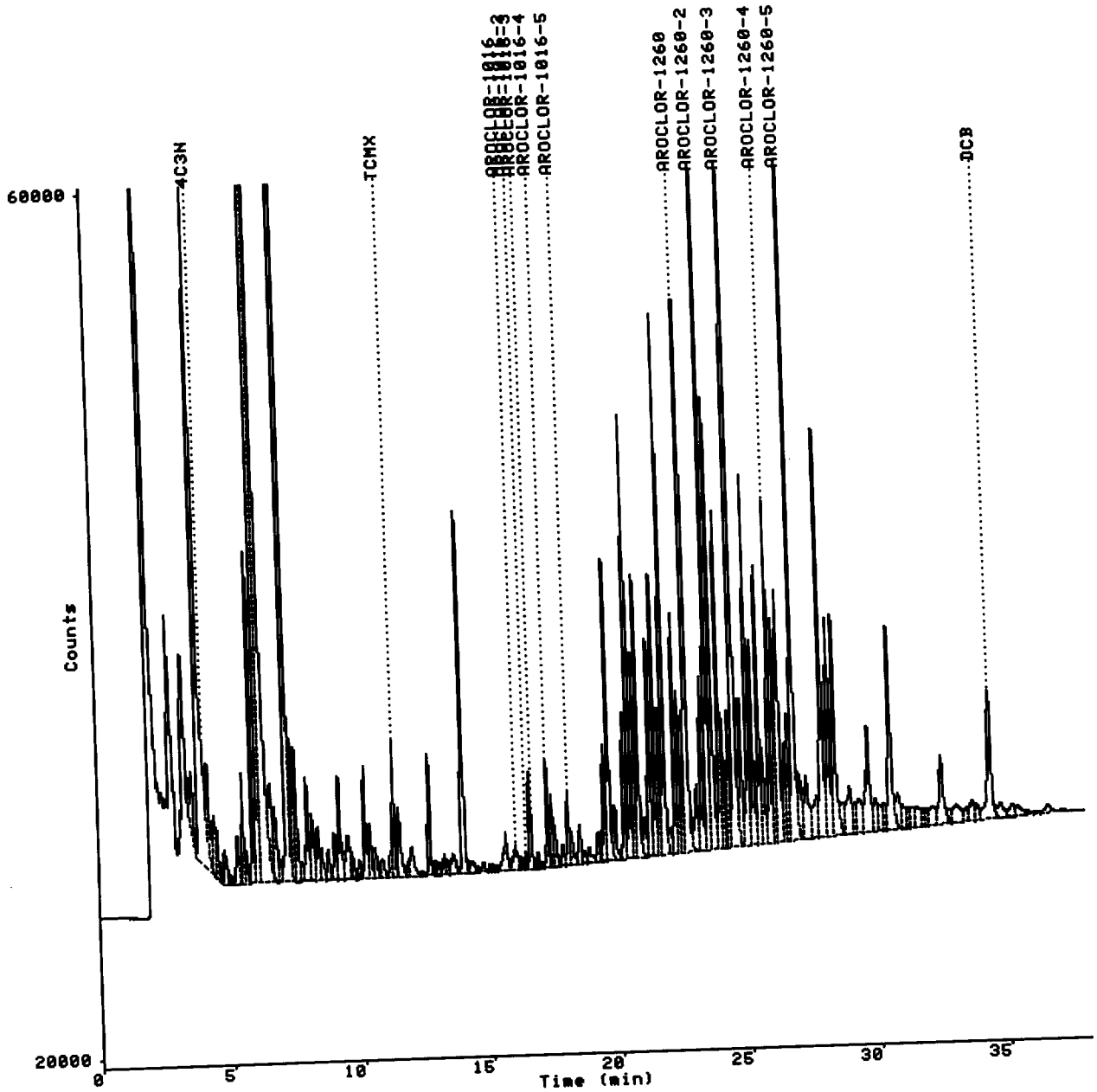
CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 76 %
TEST NAME : 8081 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-97-65112 MATRIX : SOLID
SAMPLE ID CLIENT: Q207

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.26
PCB-1254	1.6		0.26
PCB-1221	ND		0.53
PCB-1232	ND		0.26
PCB-1248	ND		0.26
PCB-1260	1.8		0.26
PCB-1016	ND		0.26

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Run Number..... 25
Sample Name..... 65112 10X
Run Date..... 3-MAY-1997 10:22:04
Raw File..... 5_0502_025
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65112 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 10X
Datafile: 5_0502_025

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 10:22:04

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	3.59		21968	BB	1
	3.84		270726	BE	2
	4.20		25386	EV	3
4C3N	4.43	0.00433	19100	EV	4
	4.51		12017	VV	5
	4.81		13524	BV	6
	5.30		15959	BV	7
	5.52		22463	VV	8
	5.63		8733	VB	9
	5.87		63049	BV	10
	6.09		652412	VV	11
	6.20		397163	VE	12
	6.60		34195	EV	13
	6.75		26730	EV	14
	6.95		6485	VV	15
	7.18		684105	VE	16
	7.34		28693	EV	17
	7.46		22943	EV	18
	7.55		42447	EV	19
	7.74		6042	VV	20
	7.99		31303	VV	21
	8.17		28182	VV	22
	8.40		16492	VV	23
	8.53		11654	VV	24
	8.79		9926	VV	25
	9.03		13552	VV	26
	9.23		32945	VV	27
	9.55		20025	VV	28
	9.64		6571	VV	29
	9.71		5880	VV	30
	9.98		5238	VV	31
	10.21		32434	VV	32
	10.41		15263	VV	33
	10.61		9436	VV	34
	10.88		7563	VV	35
	11.18		9128	VV	36
	11.31	0.0186	31234	VV	37
TCMX	11.51		25226	VV	38
	11.89		6644	VV	39
	12.01		13896	VB	40
	12.68		30934	VE	41
	13.24		6017	VV	42
	13.58		12068	VV	43
	13.97		97614	VE	44
	14.30		6975	EV	45
	15.63		18805	VV	46
	16.01	-0.0283	12541	VV	47
AROCLOR-1016	16.57	0.607	28546	VB	48
AROCLOR-1016-3	17.25	0.479	25818	VV	49
AROCLOR-1016-4	17.42		16950	VV	50

Run Number..25 Page 3

Sample ID: 65112 10X
Datafile: 5_0502_025

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 10:22:04

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	17.54		11570	VV	51
	17.84		6814	VV	52
AROCLOR-1016-5	18.05	0.339	20170	VV	53
	18.20		10443	VV	54
	18.51		13953	VV	55
	18.86		7807	VV	56
	19.20		8922	VV	57
	19.34		7200	VV	58
	19.47		28421	VV	59
	19.64		90693	VE	60
	19.89		14221	EV	61
	20.24		38415	VV	62
	20.44		108912	VV	63
	20.64		48740	VV	64
	20.79		71415	VE	65
	21.06		14187	EV	66
	21.24		66483	VV	67
	21.44		67611	VV	68
	21.61		35263	VV	69
	21.80		144795	VE	70
	22.02		8910	EV	71
	22.23		63557	VV	72
	22.39		40594	VV	73
	22.53		19308	VV	74
AROCLOR-1260	22.67	1.92	207400	VE	75
	23.06		30941	EV	76
	23.27		49090	VV	77
AROCLOR-1260-2	23.49	1.96	220985	VV	78
	23.68		135424	VV	79
	23.96		84420	VV	80
	24.06		29803	VV	81
	24.22		19731	VV	82
	24.31		34400	VV	83
AROCLOR-1260-3	24.50	1.93	287614	VE	84
	24.79		44022	EV	85
	25.07		103763	VV	86
	25.25		57013	VV	87
	25.50		77036	VV	88
	25.65		29387	VV	89
AROCLOR-1260-4	25.91	1.14	91705	VV	90
	26.12		60116	VV	91
	26.28		92921	VV	92
	26.50		25868	VV	93
	26.61		38049	VV	94
AROCLOR-1260-5	26.84	1.14	207416	VE	95
	27.07		27508	EV	96
	27.33		35782	EV	97
	27.72		28516	VV	98
	27.93		133837	VV	99
	28.22		74913	VV	100
	28.44		80842	VE	101

pos 5/16/97

All 2/45 = 1.41

Sample ID: 65112 10X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_025 Analysis Date: 3-MAY-1997 10:22:04

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	28.78		15053	EV	102
	29.01		29745	EV	103
	29.19		8835	VV	104
	29.38		25311	VV	105
	29.73		56829	VV	106
	30.00		16920	VV	107
	30.19		10038	VV	108
	30.34		12307	VV	109
	30.58		80753	VE	110
	30.87		17822	EV	111
	31.02		10821	EV	112
	31.25		8016	VV	113
	31.40		10021	VV	114
	31.57		13575	VV	115
	31.83		8599	VV	116
	31.96		6454	VV	117
	32.20		15114	VV	118
	32.54		43522	VE	119
	33.10		18267	VV	120
	33.51		6951	VV	121
	33.70		11500	VV	122
	33.87		9635	VV	123
DCB	34.40	0.0241	68430	VE	124
	34.81		12958	EV	125
	35.27		9008	EV	126
	35.47		7975	VV	127
	36.63		7640	VE	128

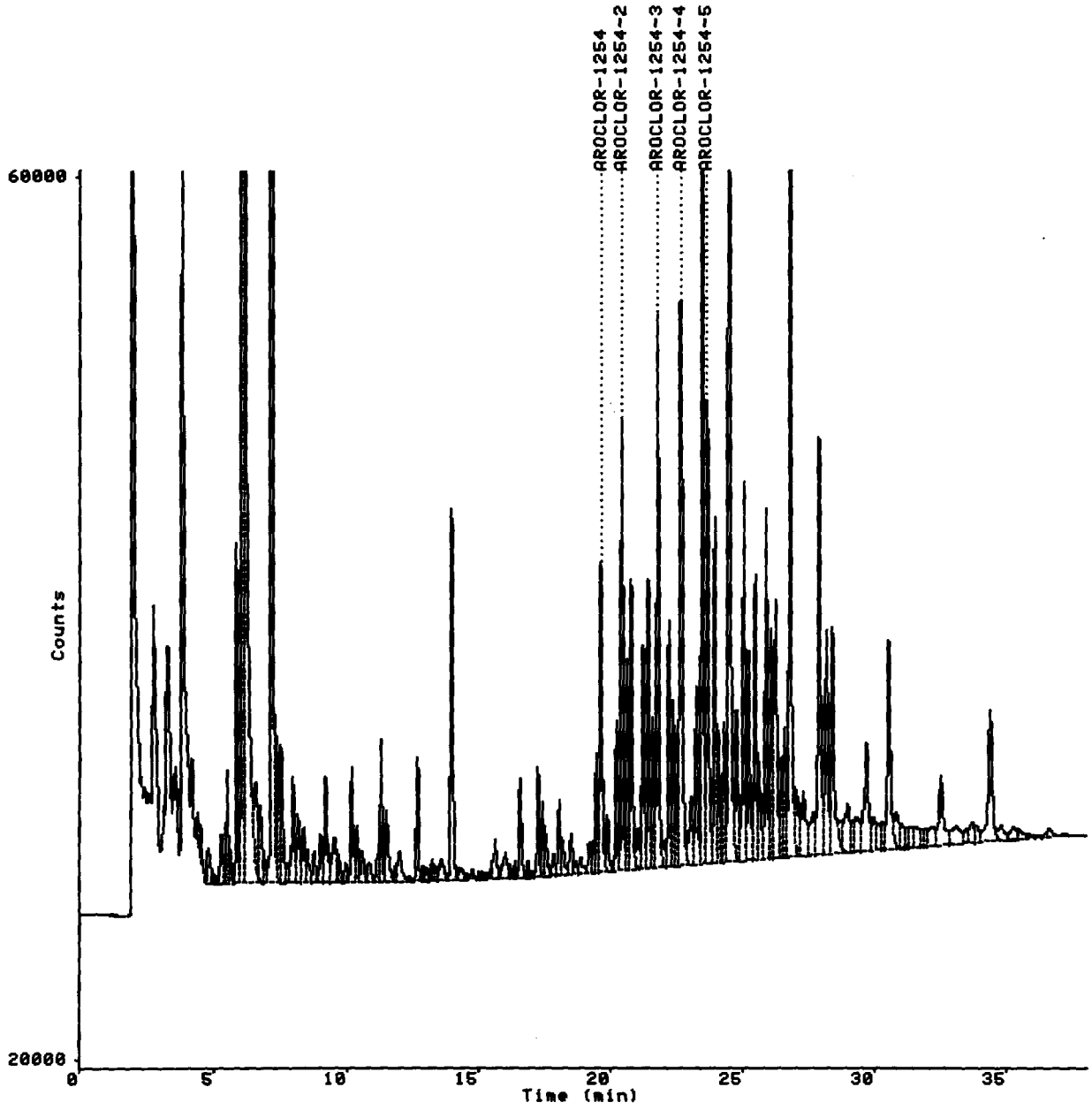
AR1016 average result...0.268
AR1260 average result...1.62

Run Number..... 25 End of Report.

Run Number..... ~~18~~ 25
Sample Name..... 65112 10X
Run Date..... 3-MAY-1997 10:22:04
Raw File..... 5_0502_025
Method Name..... 5_AR1254_0502
Method Type..... Linear

5/6/97

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65112 10X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

Run Number..~~118~~ 25 Page 2 5/6/97

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 10X
Datafile: 5_0502_025

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 10:22:04

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	4.43		9545	BV	1
	4.51		7309	VV	2
	4.81		13524	BV	3
	5.30		15959	BV	4
	5.41		4700	VV	5
	5.52		22463	VV	6
	5.63		8733	VB	7
	5.87		62840	BV	8
	6.09		647521	VV	9
	6.20		401062	VE	10
	6.60		35388	EV	11
	6.75		26589	EV	12
	6.95		6537	VV	13
	7.18		684204	VE	14
	7.34		28533	EV	15
	7.46		23527	EV	16
	7.55		41850	EV	17
	7.74		6280	VV	18
	7.99		31341	VV	19
	8.17		28141	VV	20
	8.40		16349	VV	21
	8.53		11717	VV	22
	8.79		9875	VV	23
	8.92		2832	VV	24
	9.03		13502	VV	25
	9.23		32976	VV	26
	9.55		19770	VV	27
	9.64		6444	VV	28
	9.71		6239	VV	29
	9.98		4965	VV	30
	10.05		3085	VV	31
	10.21		32431	VV	32
	10.41		15142	VV	33
	10.61		9522	VV	34
	10.79		4345	VV	35
	10.88		7463	VV	36
	11.17		8615	VV	37
	11.31		31754	VV	38
	11.51		25205	VV	39
	11.89		6666	VV	40
	12.01		13853	VB	41
	12.68		30923	VE	42
	12.88		3495	EV	43
	13.02		4023	EV	44
	13.24		5687	VV	45
	13.34		4422	VV	46
	13.58		12128	VV	47
	13.97		97615	VE	48
	14.30		6981	EV	49
	14.75		3988	VV	50

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Run Number..~~118~~ Page 3

Sample ID: 65112 10X
Datafile: 5_0502_025

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 10:22:04

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	15.52		4689	VV	51
	15.63		14051	VV	52
	16.01		12486	VV	53
	16.15		3441	VV	54
	16.39		3923	VV	55
	16.57		28525	VB	56
	16.87		4058	BB	57
	17.25		25770	VV	58
	17.42		16829	VV	59
	17.54		11663	VV	60
	17.71		2505	VV	61
	17.84		6771	VV	62
	18.05		20253	VV	63
	18.20		10419	VV	64
	18.51		13965	VV	65
	18.68		4284	VV	66
	18.86		7718	VV	67
	19.20		8944	VV	68
	19.34		7332	VV	69
	19.47		28305	VV	70
AROCLOR-1254	19.64	1.02	90713	VE	71
	19.89		14254	EV	72
	20.12		3095	VV	73
	20.24		38552	VV	74
AROCLOR-1254-2	20.44	0.880	108913	VV	75
	20.64		48741	VV	76
	20.79		71170	VE	77
	21.06		14373	EV	78
	21.24		66534	VV	79
	21.44		67608	VV	80
	21.61		35117	VV	81
AROCLOR-1254-3	21.80	1.06	144946	VE	82
	22.02		8948	EV	83
	22.23		63527	VV	84
	22.39		40499	VV	85
	22.53		19959	VV	86
AROCLOR-1254-4	22.67	1.45	206823	VE	87
	23.06		31309	EV	88
	23.27		49031	VV	89
	23.49		220709	VV	90
AROCLOR-1254-5	23.68	1.54	135455	VE	91
	23.96		83536	VV	92
	24.06		30661	VV	93
	24.22		20260	VV	94
	24.31		34191	VV	95
	24.50		287347	VE	96
	24.79		44024	EV	97
	25.07		103784	VV	98
	25.25		57071	VV	99
	25.50		76979	VV	100
	25.65		29337	VV	101

Run Number..~~118~~ 25 Page 4

Sample ID: 65112 10X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_025 Analysis Date: 3-MAY-1997 10:22:04

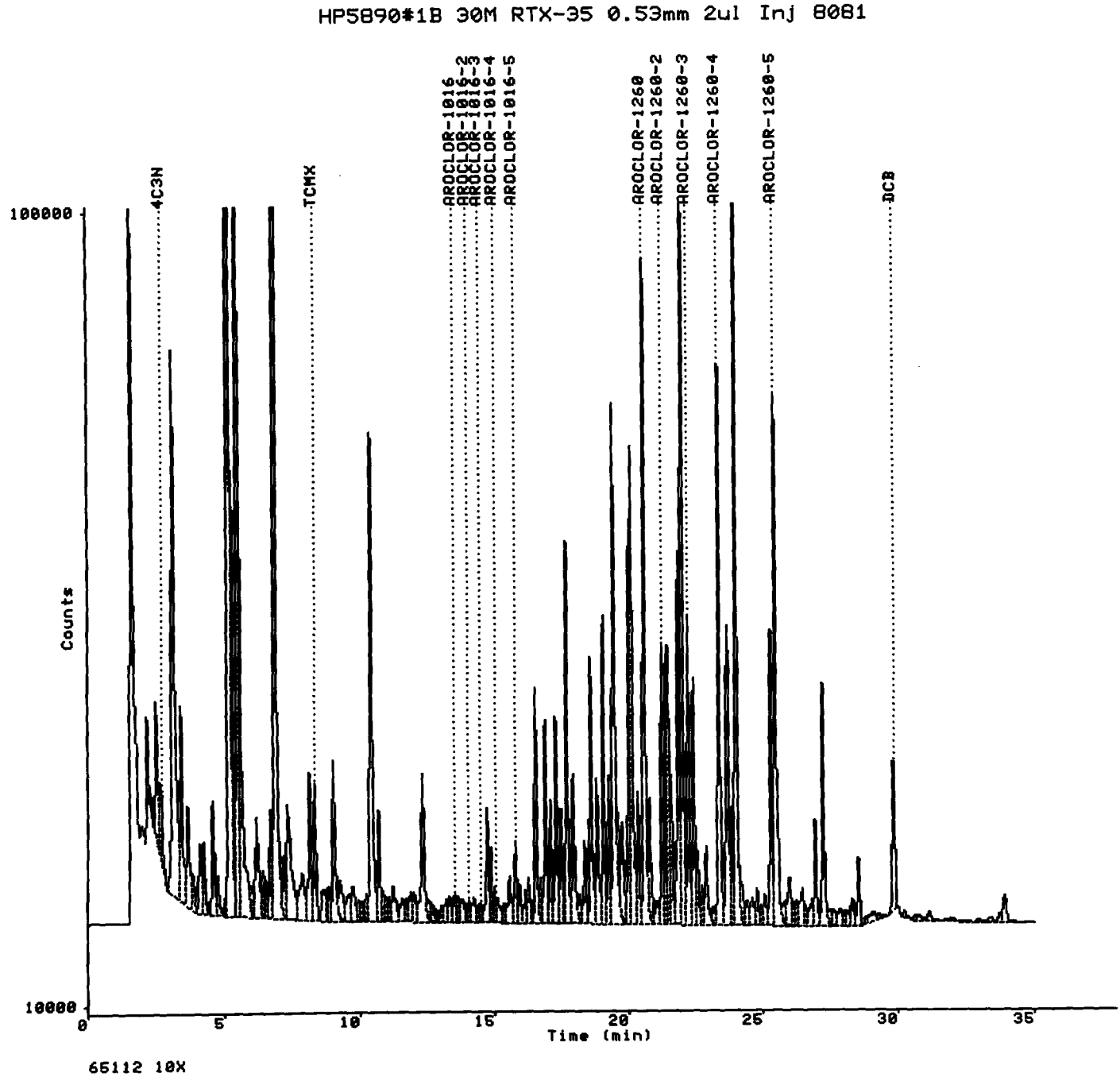
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.91		91890	VV	102
	26.12		59691	VV	103
	26.28		93291	VV	104
	26.50		25983	VV	105
	26.61		37558	VV	106
	26.84		206263	VE	107
	27.07		29010	EV	108
	27.33		36074	EV	109
	27.72		28062	VV	110
	27.93		133186	VV	111
	28.22		75758	VV	112
	28.44		85631	VE	113
	28.78		10902	EV	114
	29.01		28519	EV	115
	29.19		9401	VV	116
	29.38		25267	VV	117
	29.73		56833	VV	118
	30.00		17116	VV	119
	30.19		9911	VV	120
	30.34		12506	VV	121
	30.58		79797	VE	122
	30.87		17575	EV	123
	31.02		11613	EV	124
	31.25		7969	VV	125
	31.40		10065	VV	126
	31.57		13541	VV	127
	31.83		8900	VV	128
	31.96		6148	VV	129
	32.20		15184	VV	130
	32.54		40414	VV	131
	33.10		21296	VV	132
	33.51		6951	VV	133
	33.70		11374	VV	134
	33.87		9655	VV	135
	34.40		68357	VE	136
	34.81		12782	EV	137
	35.27		9521	EV	138
	35.47		7506	VV	139
	35.77		3578	VV	140
	36.24		2595	VV	141
	36.63		7694	VE	142

BT 5/6/97

Average result...1.19 UG/G

Run Number..... ~~118~~ 25 End of Report.

Run Number..... 25
Sample Name..... 65112 10X
Run Date..... 3-MAY-1997 10:22:01
Raw File..... 6_0502_025
Method Name..... 6_AR1660_0502
Method Type..... Linear



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 10X
Datafile: 6_0502_025

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 10:22:01

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	2.51		94845	BV	1
	2.62	0.00306	63559	VB	2
4C3N	2.96		5331	BV	3
	3.13		497068	VV	4
	3.42		124696	VV	5
	3.66		74755	VV	6
	3.81		26398	VB	7
	4.12		51614	BV	8
	4.23		47969	VE	9
	4.40		5314	EV	10
	4.58		77689	VV	11
	4.75		26330	VB	12
	5.05		9779	BV	13
	5.16		1356256	VE	14
	5.29		162562	EV	15
	5.50		564601	VV	16
	5.59		265566	VE	17
	6.19		100986	VV	18
	6.42		38228	VV	19
	6.53		24742	VV	20
	6.70		74355	VV	21
	6.86		1336598	VE	22
	7.19		44389	EV	23
	7.32		162500	EV	24
	7.86		71221	VV	25
	8.15		108882	VV	26
	8.33	0.0140	89415	VB	27
TCMX	8.64		34119	BV	28
	8.74		10889	VV	29
	8.84		25939	VV	30
	9.03		125668	VE	31
	9.27		46764	EV	32
	9.56		30810	VV	33
	9.74		39615	VV	34
	9.94		13480	VV	35
	10.03		12716	VV	36
	10.12		9035	VV	37
	10.23		18976	VV	38
	10.41		370222	VV	39
	10.70		67084	VV	40
	10.81		25470	VV	41
	10.96		14118	VV	42
	11.08		15517	VV	43
	11.22		39377	VV	44
	11.56		24549	VV	45
	11.69		16953	VV	46
	11.88		30278	VV	47
	11.99		25751	VV	48
	12.32		133195	VE	49
	12.56		20759	EV	50

Sample ID: 65112 10X
Datafile: 6_0502_025

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 10:22:01

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	12.67		11277	EV	51
	12.80		9078	EV	52
	13.01		11452	VV	53
	13.21		24142	VV	54
	13.31		19919	VV	55
AROCLOR-1016	13.52	-0.0964	30344	VV	56
	13.63		14549	VV	57
	13.76		25631	VV	58
	13.94		6039	VV	59
AROCLOR-1016-2	14.03	-0.0760	15190	VV	60
	14.21		28444	VV	61
	14.37		8991	VV	62
AROCLOR-1016-3	14.47	-0.00796	15604	VV	63
	14.72		79442	VV	64
	14.87		39009	VV	65
	14.99		19806	VV	66
AROCLOR-1016-4	15.08	0.381	24536	VV	67
	15.35		17447	VV	68
	15.55		41867	VV	69
AROCLOR-1016-5	15.78	0.259	57872	VV	70
	15.92		26283	VV	71
	16.15		24648	VV	72
	16.25		29543	VV	73
	16.36		12647	VV	74
	16.53		135144	VE	75
	16.70		28318	EV	76
	16.90		126042	VV	77
	17.09		76234	VV	78
	17.29		128663	VV	79
	17.46		68565	VV	80
	17.57		24135	VV	81
	17.69		231119	VV	82
	17.93		118849	VE	83
	18.16		21781	EV	84
	18.36		57089	VV	85
	18.59		176290	VV	86
	18.81		110191	VV	87
	19.06		184952	VV	88
	19.26		87918	VV	89
	19.43		408072	VE	90
	19.60		26985	EV	91
	19.75		86545	EV	92
	20.02		207229	VV	93
	20.10		334193	VV	94
	20.34		82655	VV	95
AROCLOR-1260	20.58	1.28	422449	VE	96
	20.77		78669	EV	97
	21.05		24041	VV	98
AROCLOR-1260-2	21.23	1.03	156953	VV	99
	21.40		148439	VV	100
	21.46		144637	VV	101

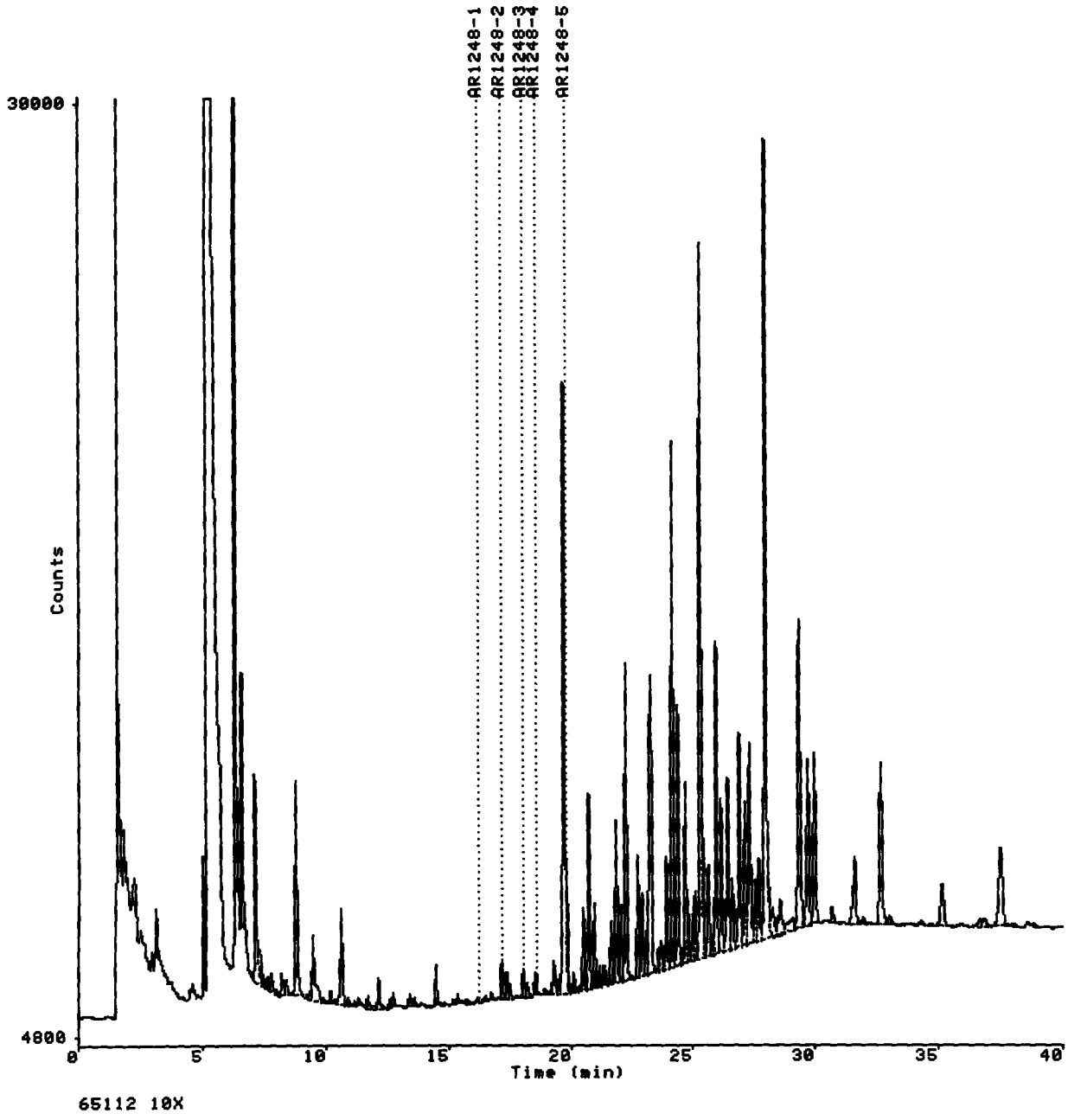
Sample ID: 65112 10X Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_025 Analysis Date: 3-MAY-1997 10:22:01

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	21.57		87319	VV	102
	21.85		241251	VV	103
	21.99		524701	VV	104
AROCLOR-1260-3	22.21	0.870	186760	VV	105
	22.41		152021	VV	106
	22.55		40909	VV	107
	22.72		29830	VV	108
	22.87		64366	VE	109
	23.15		12946	EV	110
AROCLOR-1260-4	23.37	1.42	339240	VV	111
	23.68		260752	VV	112
	23.83		64811	VV	113
	24.00		505233	VE	114
	24.21		34344	EV	115
	24.40		22810	EV	116
	24.59		28979	VV	117
	24.78		29141	VV	118
	24.93		13745	VV	119
	25.06		27197	VV	120
	25.30		172041	VV	121
AROCLOR-1260-5	25.47	1.13	362522	VE	122
	25.83		22732	EV	123
	25.99		48652	EV	124
	26.15		15530	VV	125
	26.25		18267	VV	126
	26.45		38715	VV	127
	26.56		12817	VV	128
	26.81		27722	VV	129
	26.95		67759	VV	130
	27.24		160088	VE	131
	27.49		10580	EV	132
	27.57		21119	EV	133
	27.85		18605	VV	134
	28.01		12686	VV	135
	28.13		13407	VV	136
	28.30		26310	VV	137
	28.54		45095	VB	138
	28.78		5222	BV	139
	29.09		19380	VV	140
	29.26		5746	VV	141
DCB	29.85	0.0164	107218	BB	142
	31.15		10454	VB	143
	32.00		5036	VB	144
	33.38		7932	VV	145
	33.72		8239	VV	146
	33.90		30523	VE	147

AR1016 average result...0.0919
AR1260 average result...1.15

Run Number..... 19
Sample Name..... 65112 10X
Run Date..... 6-MAY-1997 12:59:36
Raw File..... 10_0505_019
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 10X
Datafile: 10_0505_019

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 12:59:36

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.13		30099	BE	1
	7.32		5684	EV	2
	7.62		1211	VV	3
	7.79		2608	VV	4
	7.96		760	VB	5
	8.20		3723	BV	6
	8.39		3214	VE	7
	8.79		30319	VB	8
	9.34		883	VV	9
	9.48		13659	VE	10
	9.88		551	EB	11
	10.19		1616	VV	12
	10.49		807	VV	13
	10.63		14506	VE	14
	10.89		1370	EB	15
	11.17		564	BB	16
	11.32		821	BB	17
	11.70		1995	BV	18
	11.96		623	VV	19
	12.13		5103	VB	20
	12.59		1228	BV	21
	12.72		2163	VB	22
	13.40		2213	BV	23
	13.59		1237	VB	24
	14.48		5049	BE	25
	14.67		543	EV	26
	15.18		565	BB	27
	15.36		1011	BV	28
AR1248-1	16.20	0.0476	982	VB	29
	16.50		1147	BB	30
	16.75		1056	BB	31
AR1248-2	17.17	0.256	4759	BB	32
	17.36		3420	BV	33
	17.49		2255	VB	34
AR1248-3	18.05	0.137	3606	VV	35
	18.21		2361	VB	36
AR1248-4	18.57	0.109	4195	BB	37
	18.94		692	BB	38
	19.30		5502	VV	39
	19.50		2264	VV	40
	19.72		95150	VE	41
AR1248-5	19.82	0.266	9534	EB	42
	20.11		2888	BV	43
	20.26		1115	VV	44
	20.41		737	VV	45
	20.51		12769	VV	46
	20.74		26271	VV	47
	20.96		10936	VB	48
	21.18		3174	BV	49
	21.35		2896	VV	50

Sample ID: 65112 10X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_019 Analysis Date: 6-MAY-1997 12:59:36

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	21.43		1430	VV	51
	21.65		8546	VV	52
	21.86		22136	VV	53
	22.05		10097	VV	54
	22.26		44180	VE	55
	22.52		665	EB	56
	22.74		16494	BV	57
	22.92		11678	VV	58
	23.08		5756	VV	59
	23.28		63860	VV	60
	23.58		2951	VV	61
	23.68		4511	VV	62
	23.77		1140	VV	63
	23.91		15868	VV	64
	24.16		66771	VV	65
	24.38		42388	VV	66
	24.69		24302	VV	67
	24.81		5944	VV	68
	24.98		6328	VV	69
	25.09		9120	VV	70
	25.30		102865	VE	71
	25.41		9175	EV	72
	25.63		15263	VV	73
	25.84		2577	VV	74
	25.94		41444	VV	75
	26.15		21938	VV	76
	26.42		28579	VV	77
	26.60		11278	VV	78
	26.90		31225	VV	79
	27.13		22023	VV	80
	27.33		33919	VV	81
	27.57		9980	VV	82
	27.70		12928	VV	83
	27.98		120484	VE	84
	28.28		8704	EV	85
	28.59		10922	EV	86
	29.09		6815	VV	87
	29.35		60178	VV	88
	29.58		2483	VV	89
	29.72		28480	VV	90
	29.99		30765	VB	91
	30.71		2432	BB	92
	31.62		14608	BV	93
	31.96		956	VV	94
	32.68		33758	BE	95
	33.04		2192	EB	96
	34.29		715	BB	97
	35.17		9450	BB	98
	36.67		1658	BV	99
	36.87		1865	VB	100
	37.53		21251	BB	101

Run Number..19 Page 4

Sample ID: 65112 10X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_019 Analysis Date: 6-MAY-1997 12:59:36

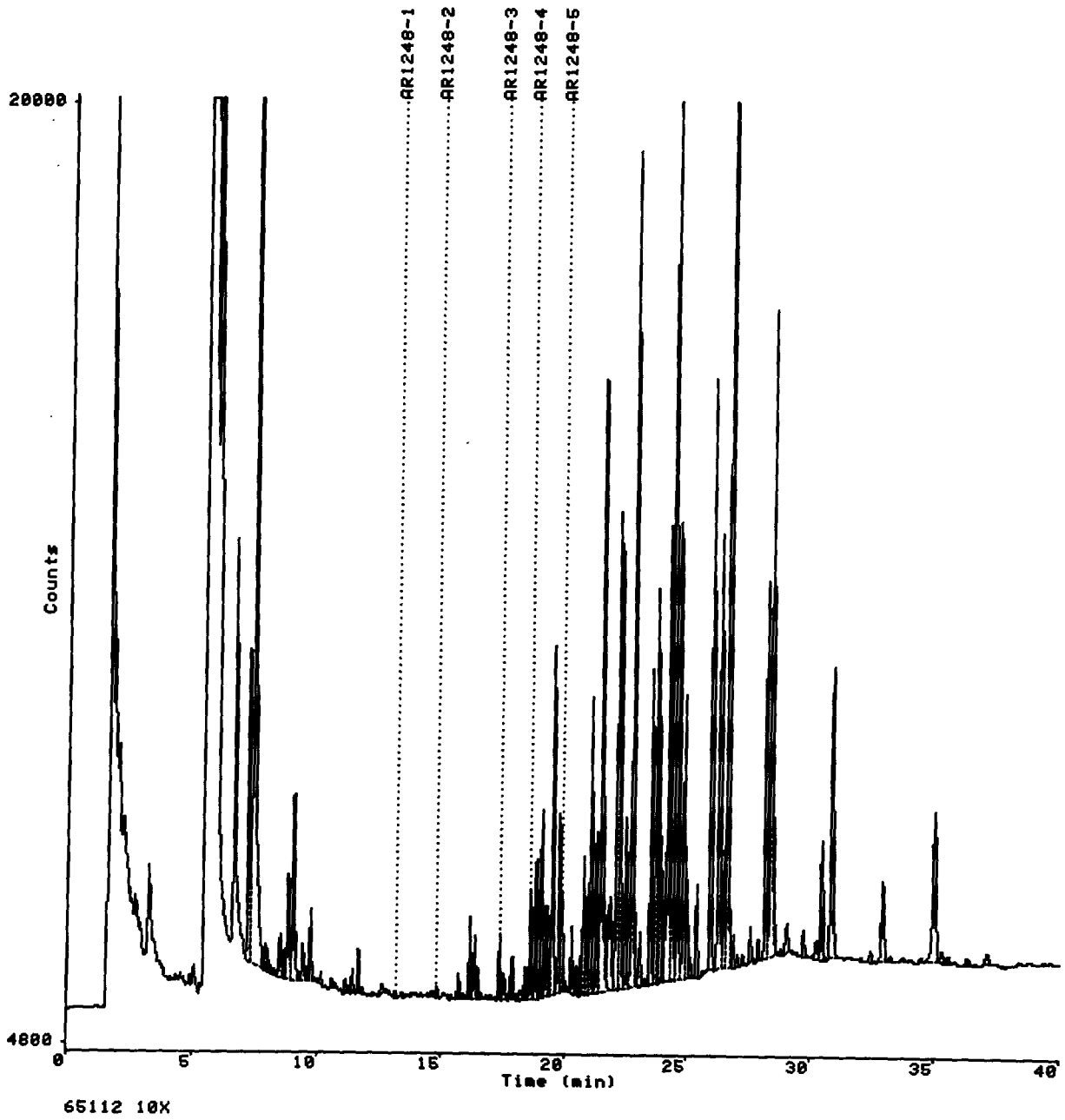
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	38.88		687	BB	102
	40.35		1075	BB	103

Average result...0.163 UG/G

Run Number..... 19 End of Report.

Run Number..... 19
Sample Name..... 65112 10X
Run Date..... 6-MAY-1997 12:59:39
Raw File..... 11_0505_019
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65112 10X
Datafile: 11_0505_019

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 6-MAY-1997 12:59:39

Peak Name	R.T. (min)	UG/G	Peak Area	BL	PEAK NO.
	7.20		23826	BV	1
	7.40		158402	VE	2
	7.91		1658	EV	3
	7.98		1529	EV	4
	8.11		521	EV	5
	8.50		3526	BV	6
	8.60		1450	VV	7
	8.70		2124	VV	8
	8.82		9161	VV	9
	9.04		16099	VB	10
	9.41		2892	VV	11
	9.58		1032	VV	12
	9.73		4820	VE	13
	10.15		747	BB	14
	10.59		662	VV	15
	11.15		1328	BV	16
	11.28		624	VV	17
	11.42		1932	VV	18
	11.67		3048	VE	19
	12.60		1099	BB	20
AR1248-2	14.83	-0.0245	917	VB	21
	15.71		1689	BB	22
	16.18		5707	BV	23
	16.36		4750	VV	24
	16.48		2269	VE	25
	16.59		505	EB	26
AR1248-3	17.38	0.137	5401	BV	27
	17.54		2542	VV	28
	17.80		1580	VV	29
	17.91		3256	VE	30
	18.07		514	EV	31
	18.25		1348	EV	32
	18.41		2450	VV	33
AR1248-4	18.62	0.193	8543	VV	34
	18.85		10037	VB	35
	19.07		13837	BV	36
	19.25		7739	VV	37
	19.39		3238	VV	38
	19.51		27766	VV	39
	19.78		14450	VV	40
AR1248-5	19.88	0.219	8694	VE	41
	20.04		607	EB	42
	20.30		4789	BV	43
	20.53		2240	VB	44
	20.70		3165	BV	45
	20.78		10917	VV	46
	20.88		4284	VV	47
	21.05		21799	VV	48
	21.30		11937	VV	49
	21.48		59343	VE	50

Sample ID: 65112 10X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_019 Analysis Date: 6-MAY-1997 12:59:39

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	21.67		3725	EV	51
	21.84		14462	EV	52
	22.12		38569	VV	53
	22.23		37557	VV	54
	22.48		12347	VE	55
	22.62		665	EV	56
	22.75		61513	VE	57
	22.85		3378	EV	58
	23.07		4664	EB	59
	23.28		620	BB	60
	23.50		22811	BV	61
	23.70		30166	VV	62
	23.78		17702	VV	63
	23.90		11074	VB	64
	24.19		43828	BV	65
	24.35		82643	VV	66
	24.59		34153	VV	67
	24.83		23114	VV	68
	24.98		7268	VE	69
	25.12		1240	EB	70
	25.36		6610	BB	71
	25.92		47521	BV	72
	26.26		43901	VV	73
	26.44		8815	VV	74
	26.60		100324	VE	75
	26.73		2796	EV	76
	26.85		2278	EV	77
	27.02		1037	VB	78
	27.23		804	BB	79
	27.54		2476	BB	80
	27.85		1684	BB	81
	28.14		33167	BV	82
	28.36		60491	VE	83
	28.46		5636	EB	84
	28.77		608	BB	85
	29.02		3540	BB	86
	29.70		2308	BB	87
	30.23		1805	BV	88
	30.44		11323	VB	89
	30.84		30955	BB	90
	32.43		1080	BB	91
	32.92		9662	BE	92
	33.23		599	EB	93
	34.99		21668	BE	94
	35.30		1321	EV	95
	35.55		922	EB	96
	36.34		824	BB	97
	37.12		1477	BB	98
	41.18		2677	BV	99
	41.50		6281	VB	100

Average result...0.0988 UG/G

Run Number..... 19 End of Report.

TEST CODE :SPCB 1 JOB NUMBER :9700.860
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

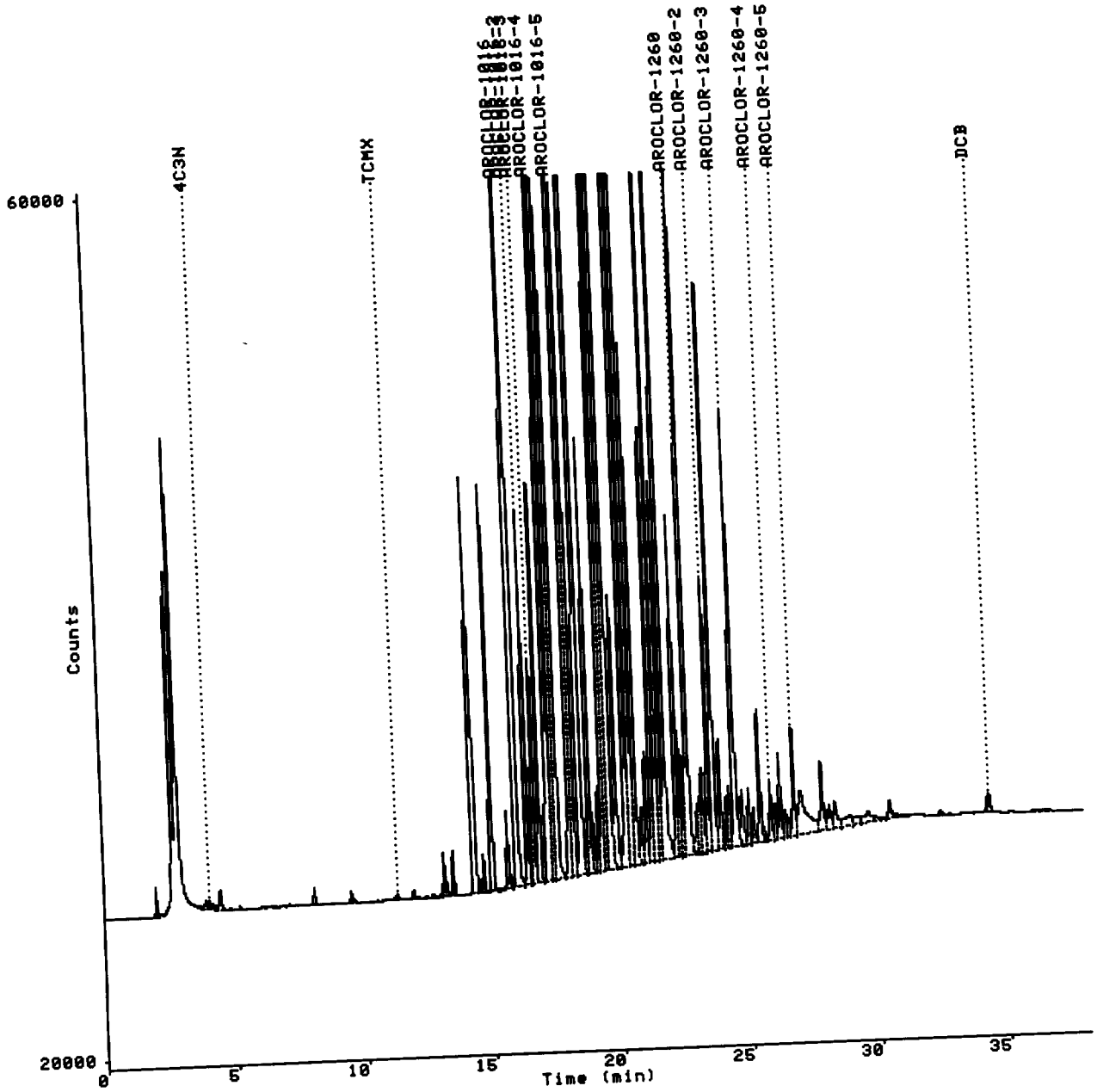
CLIENT : START - CHICAGO
RESULTS IN DRY WEIGHT %SOLIDS : 94 %
TEST NAME : 8081 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-97-65113 MATRIX : SOLID
SAMPLE ID CLIENT: Q208

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		11
PCB-1254	ND		11
PCB-1221	ND		21
PCB-1232	ND		11
PCB-1248	120		11
PCB-1260	ND		11
PCB-1016	ND		11

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Run Number..... 30
Sample Name..... 65113 500X
Run Date..... 3-MAY-1997 13:53:54
Raw File..... 5_0502_030
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65113 500X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 500

Entered Conversion Factor..5.0E+03
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65113 500X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_030 Analysis Date: 3-MAY-1997 13:53:54

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	13.12		9295	VV	1
	13.48		9835	VB	2
	14.27		125984	BV	3
	14.67		8946	VB	4
	15.00		94669	BE	5
	15.62		18928	BE	6
AROCLOR-1016	15.99	105	307273	VV	7
AROCLOR-1016-2	16.39	71.0	91810	VV	8
	16.60		20650	VV	9
AROCLOR-1016-3	16.67	58.6	51732	VV	10
	16.87		91860	VV	11
AROCLOR-1016-4	17.25	473	389473	VV	12
	17.42		270673	VV	13
	17.56		202373	VV	14
AROCLOR-1016-5	18.05	448	402646	VV	15
	18.19		170442	VV	16
	18.51		402557	VE	17
	18.73		7813	EV	18
	18.84		104661	VE	19
	18.98		13342	EV	20
	19.20		20801	VV	21
	19.34		158074	VV	22
	19.46		341000	VV	23
	19.62		465505	VE	24
	19.89		75498	EV	25
	20.25		298557	VV	26
	20.44		288822	VV	27
	20.64		129608	VE	28
	20.88		16973	EV	29
	21.07		28648	VV	30
	21.26		107400	VV	31
	21.44		168202	VV	32
	21.61		87863	VV	33
	21.80		285032	VV	34
	22.24		84090	VV	35
	22.39		31140	VV	36
	22.53		22760	VV	37
AROCLOR-1260	22.71	105	225173	VE	38
	23.07		15386	EV	39
	23.14		13000	EV	40
	23.26		27173	EV	41
AROCLOR-1260-2	23.48	24.3	66107	VV	42
	23.69		152988	VV	43
	23.96		30319	VV	44
	24.06		5868	VV	45
	24.22		12311	VV	46
	24.31		14876	VV	47
AROCLOR-1260-3	24.50	40.4	127812	VE	48
	24.80		19675	EV	49
	25.07		14652	VV	50

Sample ID: 65113 500X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_030 Analysis Date: 3-MAY-1997 13:53:54

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.25		10193	VV	51
	25.50		37280	VE	52
AROCLOR-1260-4	25.92	6.59	17242	VV	53
	26.12		10313	VV	54
	26.29		23587	VV	55
	26.50		8443	VV	56
	26.61		6003	VV	57
AROCLOR-1260-5	26.84	4.71	31204	VV	58
	27.11		51819	VV	59
	27.93		28406	VV	60
	28.22		9773	VV	61
	28.44		14299	VV	62
	29.01		12502	VV	63
	29.28		8135	VV	64
	29.74		10695	VV	65
	30.58		8934	VE	66
DCB	34.40	-0.261	8721	VB	67

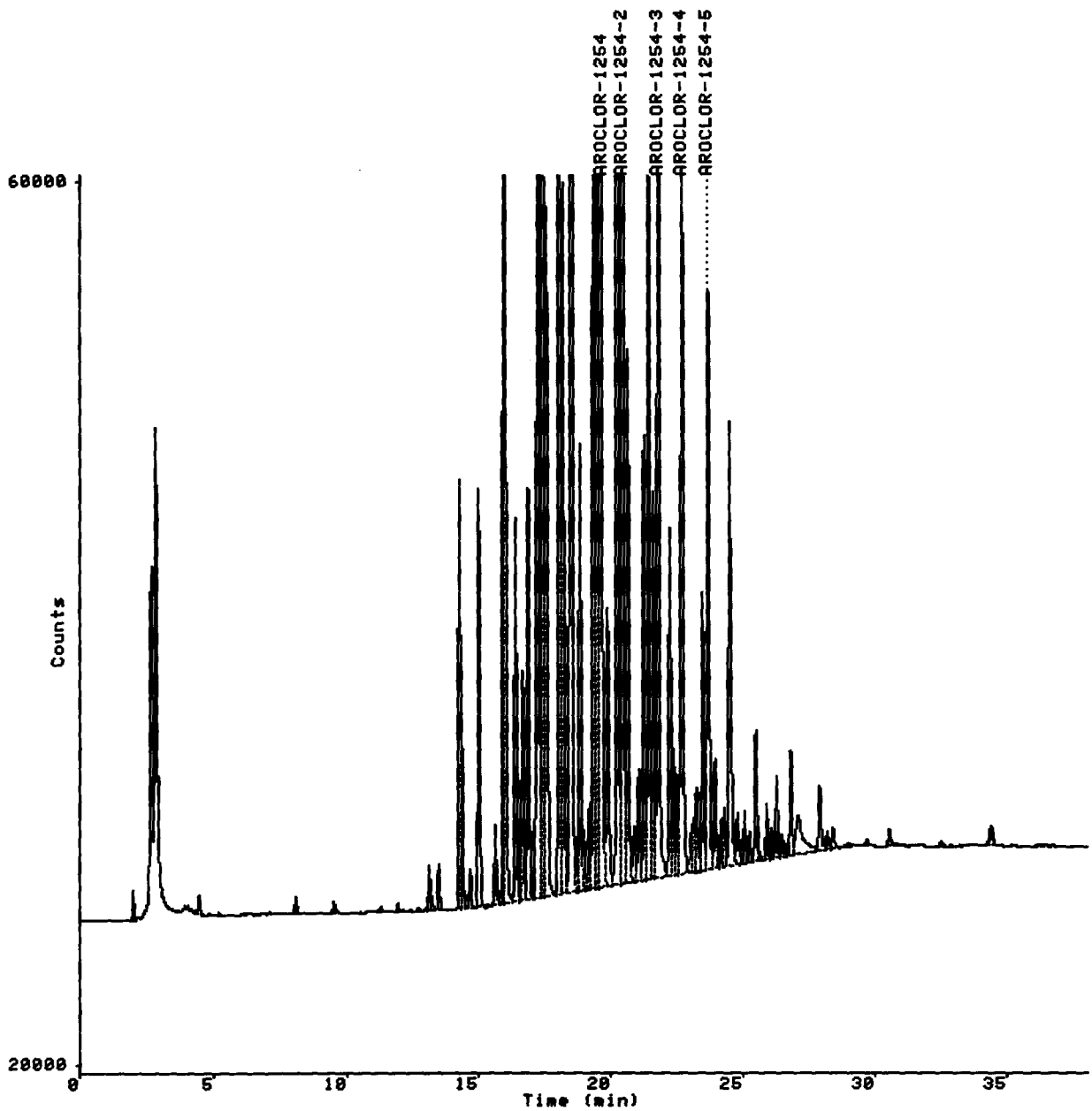
AR1016 average result...231
AR1260 average result...36.1

Run Number..... 30 End of Report.

Run Number..... ~~123~~ 30
Sample Name..... 65113 500X
Run Date..... 3-MAY-1997 13:53:54
Raw File..... 5_0502_030
Method Name..... 5_AR1254_0502
Method Type..... Linear

5/6/97

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



65113 500X

Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 500

Entered Conversion Factor..5.0E+03
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65113 500X
Datafile: 5_0502_030

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 13:53:54

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	4.47		3605	VB	1
	8.10		3536	VB	2
	9.53		2706	BV	3
	13.12		9197	VV	4
	13.23		2580	VV	5
	13.48		9828	VB	6
	14.27		97300	BV	7
	14.35		28673	VV	8
	14.67		8947	VB	9
	15.00		94670	BE	10
	15.62		18862	BE	11
	15.95		117422	VV	12
	16.00		189389	VV	13
	16.39		91436	VV	14
	16.60		20349	VV	15
	16.67		51471	VV	16
	16.87		91162	VV	17
	17.25		388997	VV	18
	17.42		268535	VV	19
	17.56		203084	VE	20
	18.05		399632	VV	21
	18.19		170437	VV	22
	18.51		400822	VE	23
	18.73		7084	EV	24
	18.84		103670	VE	25
	18.98		12772	EV	26
	19.20		19828	VV	27
	19.34		157569	VV	28
	19.46		339582	VV	29
AROCLOR-1254	19.62	285	463329	VE	30
	19.89		73494	EV	31
	20.25		296261	VV	32
AROCLOR-1254-2	20.44	126	287004	VV	33
	20.64		127421	VE	34
	20.88		15417	EV	35
	21.07		26834	VV	36
	21.26		105509	VV	37
	21.44		166199	VV	38
	21.61		85957	VV	39
AROCLOR-1254-3	21.80	106	280778	VV	40
	22.24		81386	VV	41
	22.39		29523	VV	42
	22.53		21525	VV	43
AROCLOR-1254-4	22.71	77.8	220847	VE	44
	23.07		13275	EV	45
	23.14		11684	EV	46
	23.26		24323	EV	47
	23.48		63471	VV	48
AROCLOR-1254-5	23.69	85.3	149108	VV	49
	23.96		26996	VV	50

Run Number..~~123~~ 30 Page 3

Sample ID: 65113 500X Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_030 Analysis Date: 3-MAY-1997 13:53:54

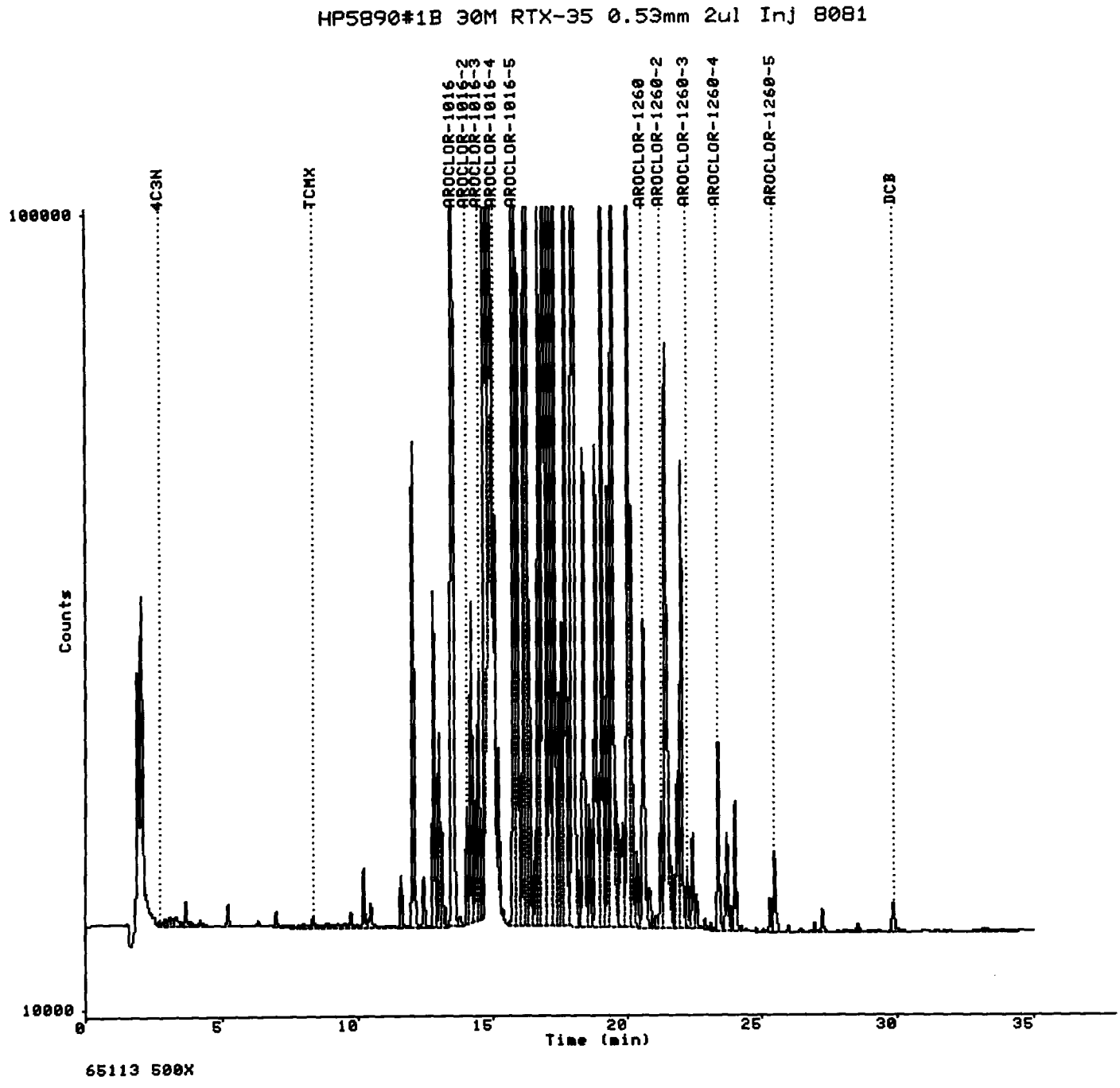
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	24.06		4985	VV	51
	24.22		10554	VV	52
	24.31		12795	VV	53
	24.50		122463	VE	54
	24.80		15713	EV	55
	25.07		11515	VV	56
	25.25		6754	VV	57
	25.50		32754	VE	58
	25.92		12650	VV	59
	26.12		7287	VV	60
	26.29		19549	VV	61
	26.50		5500	VV	62
	26.61		3323	VV	63
	26.84		26387	VV	64
	27.11		35268	VV	65
	27.93		20616	VV	66
	28.22		5304	VV	67
	28.44		7021	VE	68
	30.58		5528	BE	69
	34.40		7667	BB	70

Average result...136 UG/G

Run Number..... ~~123~~ 30 End of Report.

8/4/97

Run Number..... 30
Sample Name..... 65113 500X
Run Date..... 3-MAY-1997 13:53:53
Raw File..... 6_0502_030
Method Name..... 6_AR1660_0502
Method Type..... Linear



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 500

Entered Conversion Factor..5.0E+03
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65113 500X
Datafile: 6_0502_030

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 13:53:53

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	3.08		5786	VV	1
	3.31		9146	VV	2
	3.66		12925	VE	3
	5.20		12033	VE	4
	6.96		7755	BE	5
	9.73		7019	VE	6
	10.20		28379	VV	7
	10.46		15665	VE	8
	11.58		27185	BB	9
	12.02		297826	BV	10
	12.42		26685	VE	11
	12.79		172671	BV	12
	13.00		107339	VV	13
	13.08		42996	VE	14
	13.20		7197	EB	15
AROCLOR-1016	13.50	101	772122	BE	16
	13.75		8259	EB	17
AROCLOR-1016-2	14.03	11.4	61302	BV	18
	14.19		178648	VV	19
	14.35		60363	VV	20
AROCLOR-1016-3	14.47	52.8	127289	VB	21
	14.72		760310	BV	22
	14.88		372422	VB	23
AROCLOR-1016-4	15.07	77.5	74161	BB	24
	15.21		61019	BB	25
AROCLOR-1016-5	15.78	375	1017004	VV	26
	15.92		355546	VV	27
	16.15		300447	VV	28
	16.24		689586	VV	29
	16.35		147222	VV	30
	16.58		47040	VV	31
	16.70		430783	VV	32
	16.90		1065033	VV	33
	17.09		803969	VV	34
	17.28		471381	VV	35
	17.46		124637	VV	36
	17.56		159251	VV	37
	17.69		497032	VV	38
	18.00		976232	VE	39
	18.15		29139	EV	40
	18.36		294326	VV	41
	18.58		67953	VV	42
	18.81		324394	VV	43
	19.05		404460	VV	44
	19.26		237469	VV	45
	19.43		746546	VE	46
	19.60		56521	EV	47
	19.82		102250	EV	48
	20.01		492102	VV	49
	20.13		262388	VE	50

Sample ID: 65113 500X Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_030 Analysis Date: 3-MAY-1997 13:53:53

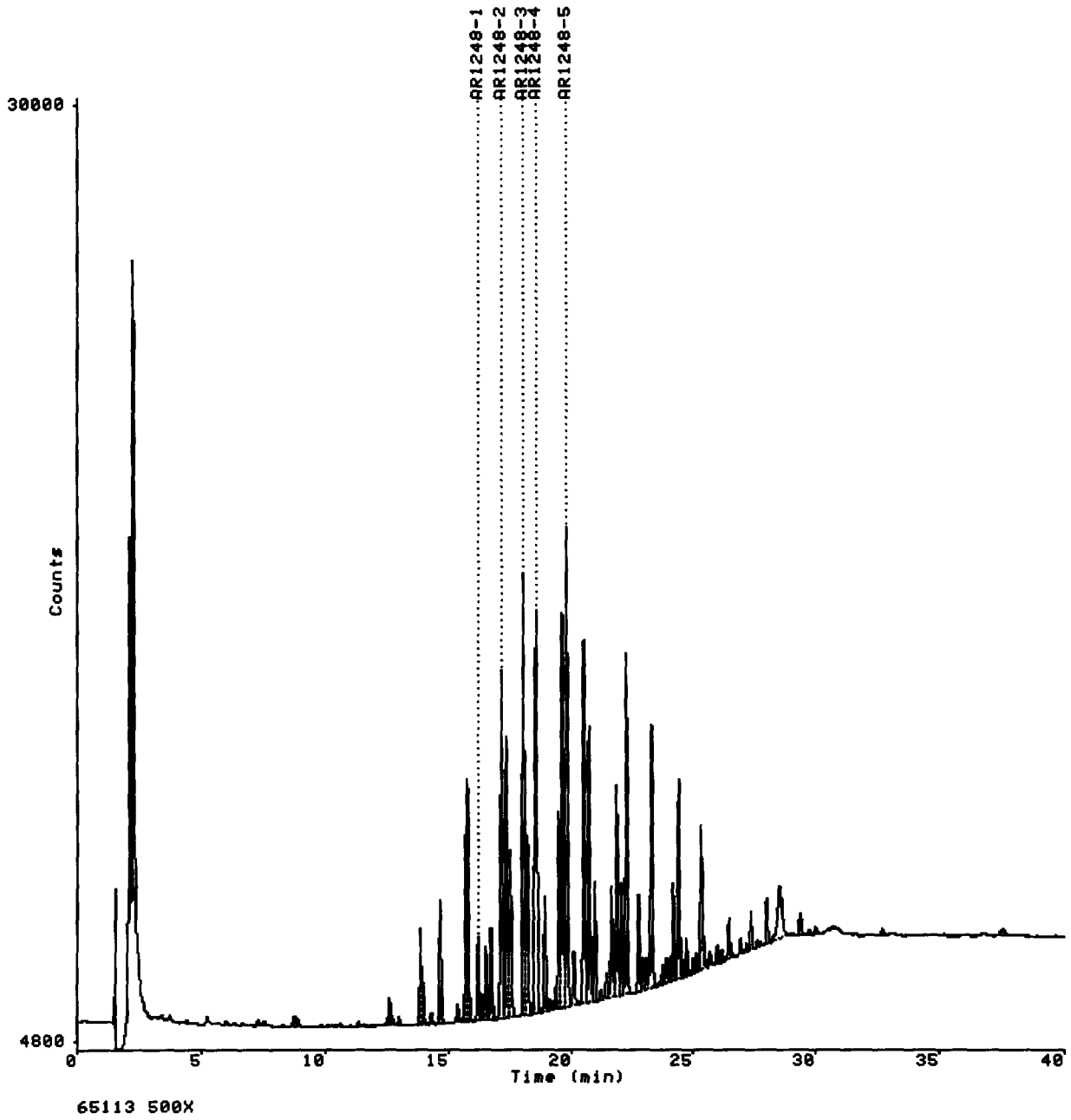
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	20.34		43387	EV	51
AROCLOR-1260	20.58	28.8	215972	VE	52
	20.80		27434	EV	53
	21.05		8366	VV	54
AROCLOR-1260-2	21.23	18.5	67649	VV	55
	21.40		441094	VE	56
	21.59		26832	EV	57
	21.77		22019	EV	58
	21.85		85685	VV	59
	21.99		268108	VE	60
AROCLOR-1260-3	22.21	1.94	32801	EV	61
	22.41		52799	VV	62
	22.56		18122	VB	63
AROCLOR-1260-4	23.37	17.1	102634	VV	64
	23.69		65606	VE	65
	23.83		10076	EV	66
	24.00		71544	VE	67
	25.30		18428	VV	68
AROCLOR-1260-5	25.46	4.79	48222	VB	69
	26.95		5920	VV	70
	27.23		13897	VE	71
	28.54		6397	VV	72
	29.09		6806	VV	73
DCB	29.85	-0.0949	25385	VE	74

AR1016 average result...124
AR1260 average result...14.2

Run Number..... 30 End of Report.

Run Number..... 20
Sample Name..... 65113 500X
Run Date..... 6-MAY-1997 13:45:52
Raw File..... 10_0505_020
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 500

Entered Conversion Factor..5.0E+03
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65113 500X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_020 Analysis Date: 6-MAY-1997 13:45:52

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.30		617	BB	1
	8.78		1777	BV	2
	8.90		926	VB	3
	12.60		3367	VV	4
	12.73		1113	VB	5
	13.00		1076	BB	6
	13.88		12754	BV	7
	13.97		4807	VB	8
	14.32		1457	BB	9
	14.68		16840	BB	10
	15.37		2389	BE	11
	15.73		17112	BV	12
	15.79		32333	VB	13
AR1248-1	16.22	51.2	11874	BV	14
	16.45		2254	VV	15
	16.53		9597	VB	16
	16.75		11841	BB	17
AR1248-2	17.18	147	49294	BV	18
	17.37		36397	VV	19
	17.52		28388	VB	20
AR1248-3	18.07	131	58952	BV	21
	18.22		25776	VB	22
AR1248-4	18.59	114	70644	BE	23
	18.94		14852	VB	24
	19.12		1182	BB	25
	19.36		2527	BV	26
	19.52		24669	VV	27
	19.66		50802	VV	28
AR1248-5	19.83	103	70150	VV	29
	20.13		7595	VB	30
	20.54		54953	BV	31
	20.75		37305	VV	32
	20.98		15377	VB	33
	21.24		1770	BV	34
	21.45		4376	VV	35
	21.66		16264	VV	36
	21.88		30129	VV	37
	22.06		14893	VV	38
	22.28		44439	VB	39
	22.77		12795	BV	40
	22.94		4261	VV	41
	23.10		3932	VV	42
	23.30		40995	VB	43
	23.70		1361	BV	44
	23.79		2596	VV	45
	23.93		3809	VE	46
	24.18		12184	VV	47
	24.41		28829	VV	48
	24.71		5396	VE	49
	25.00		1918	BV	50

Sample ID: 65113 500X Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_020 Analysis Date: 6-MAY-1997 13:45:52

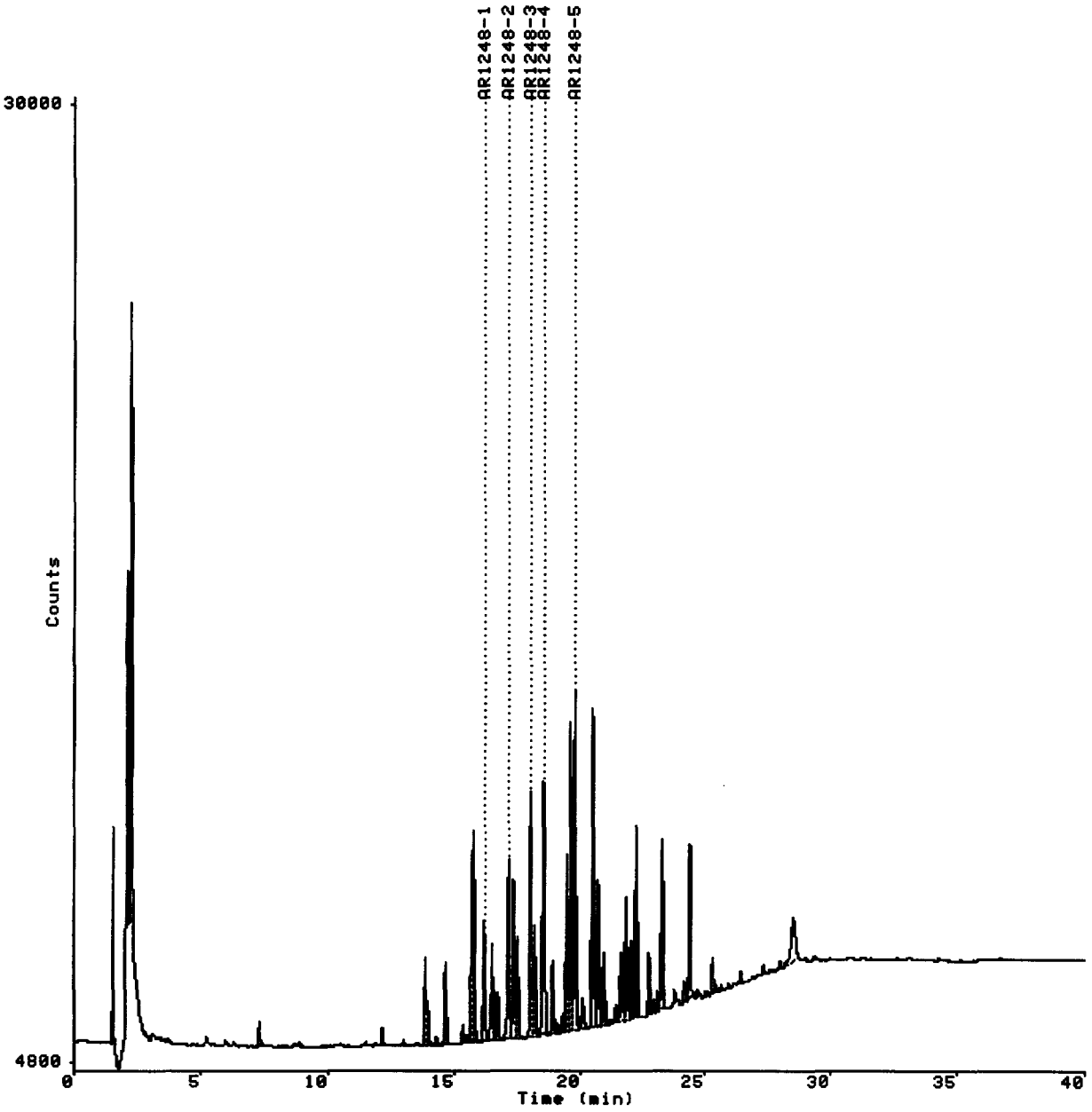
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	25.10		2530	VV	51
	25.32		21896	VE	52
	25.42		2104	EV	53
	25.66		2374	VB	54
	25.96		2285	BB	55
	26.17		1825	BV	56
	26.45		6384	VE	57
	26.92		2293	BV	58
	27.14		1199	VV	59
	27.35		5185	VV	60
	27.59		1052	VV	61
	27.72		632	VB	62
	28.00		6451	BV	63
	28.54		18752	VB	64
	29.37		3996	BB	65
	29.73		721	BB	66
	30.01		1415	BB	67
	30.66		565	BB	68
	32.70		1081	BB	69
	37.55		1339	BB	70

Average result...109 UG/G

Run Number..... 20 End of Report.

Run Number..... 23
Sample Name..... 0.4UG/ML AR1248
Run Date..... 6-MAY-1997 16:04:51
Raw File..... 10_0505_023
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



0.4UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_023 Analysis Date: 6-MAY-1997 16:04:51

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	7.29		3085	BE	1
	12.14		2115	BB	2
	13.86		11276	BV	3
	13.95		4652	VB	4
	14.30		1104	BB	5
	14.67		10943	BB	6
	15.36		2153	BV	7
	15.48		730	VV	8
	15.72		20347	VV	9
	15.77		25968	VB	10
AR1248-1	16.19	0.433	16562	BV	11
	16.51		13443	VV	12
	16.74		5973	VE	13
AR1248-2	17.16	0.436	24689	VV	14
	17.36		19945	VV	15
	17.51		17576	VB	16
AR1248-3	18.05	0.423	32008	BV	17
	18.21		15894	VB	18
AR1248-4	18.58	0.424	43904	BE	19
	18.93		9268	VV	20
	19.10		1308	VB	21
	19.34		2412	BV	22
	19.50		21858	VV	23
	19.64		39117	VV	24
AR1248-5	19.81	0.415	47343	VV	25
	20.11		4934	VB	26
	20.53		47444	BV	27
	20.74		19919	VV	28
	20.96		9049	VB	29
	21.23		553	BV	30
	21.44		2962	VV	31
	21.65		10660	VV	32
	21.86		17602	VV	33
	22.05		9867	VV	34
	22.26		24805	VB	35
	22.76		7769	BV	36
	22.93		1739	VV	37
	23.08		2415	VV	38
	23.28		23772	VB	39
	23.77		1240	BB	40
	24.16		2817	BV	41
	24.39		19796	VB	42
	24.69		713	BB	43
	24.99		689	BV	44
	25.09		766	VV	45
	25.30		5476	VE	46
	25.41		622	EB	47
	25.65		699	BB	48
	26.43		1458	BB	49
	27.33		1283	BB	50

Run Number..23 Page 3

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_023 Analysis Date: 6-MAY-1997 16:04:51

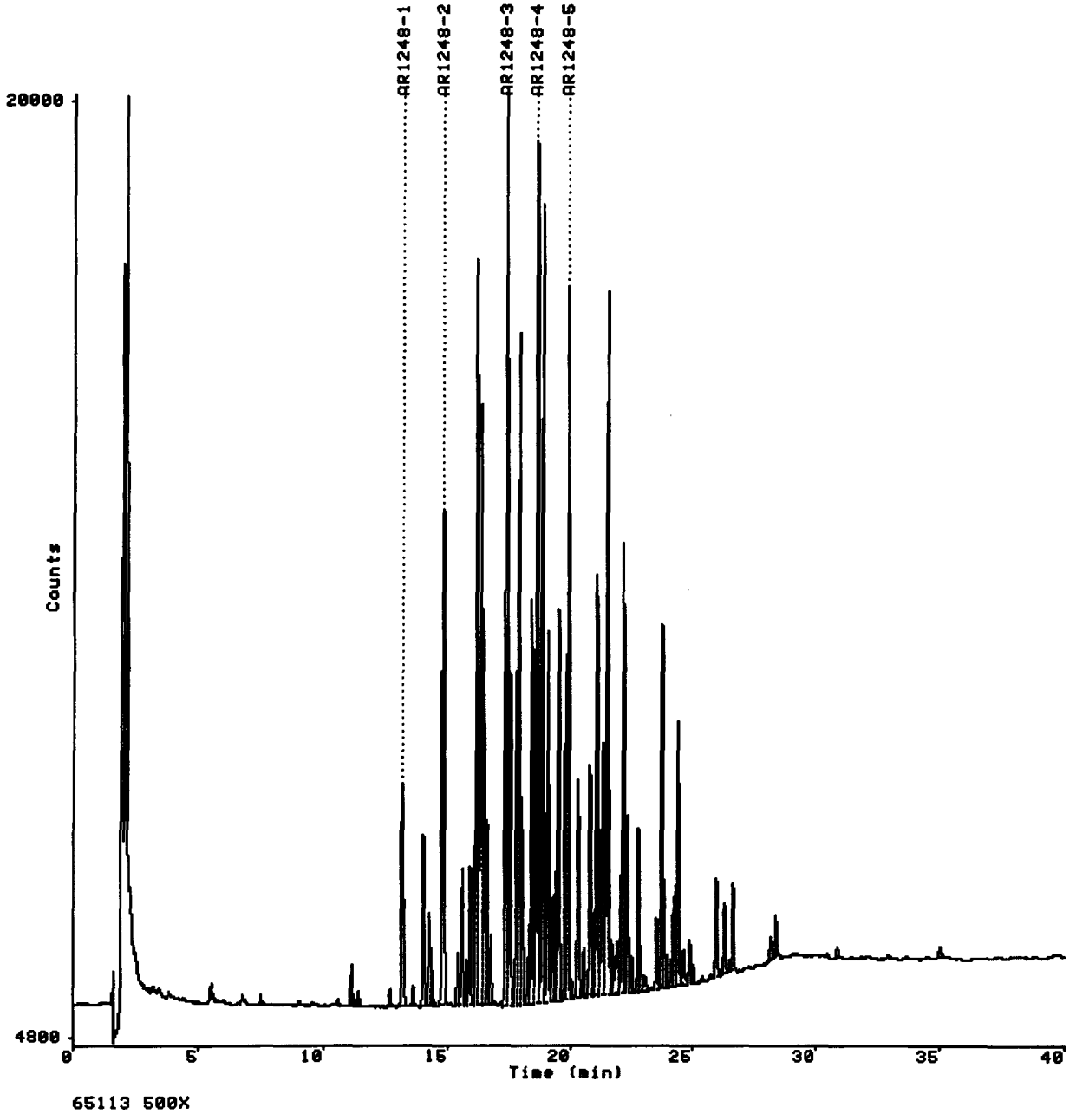
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	27.98		1097	BB	51
	28.51		15346	BB	52
	29.35		706	BB	53

Average result...0.426 UG/ML

Run Number..... 23 End of Report.

Run Number..... 20
Sample Name..... 65113 500X
Run Date..... 6-MAY-1997 13:45:55
Raw File..... 11_0505_020
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 500

Entered Conversion Factor..5.0E+03
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: 65113 500X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_020 Analysis Date: 6-MAY-1997 13:45:55

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	7.51		632	BB	1
	11.15		2929	BE	2
	11.44		1052	VB	3
	12.69		1139	BB	4
AR1248-1	13.18	80.2	19448	BB	5
	13.63		1557	BB	6
	14.04		12404	BV	7
	14.28		6972	VV	8
	14.36		2437	VE	9
AR1248-2	14.84	76.8	54683	BB	10
	15.43		3776	BV	11
	15.62		10292	VV	12
	15.80		3277	VV	13
	15.93		9829	VV	14
	16.19		54254	VV	15
	16.38		56536	VV	16
	16.49		19052	VV	17
	16.60		13107	VV	18
	16.77		5141	VE	19
AR1248-3	17.40	129	73945	BV	20
	17.56		24729	VE	21
	17.82		23416	VV	22
	17.92		48796	VV	23
	18.06		12580	VV	24
	18.28		3173	VV	25
	18.43		29514	VV	26
AR1248-4	18.64	97.3	73278	VV	27
	18.86		58154	VV	28
	19.08		28085	VV	29
	19.27		7765	VV	30
	19.40		9231	VV	31
	19.52		30068	VB	32
	19.80		17371	BV	33
AR1248-5	19.90	77.1	55372	VE	34
	20.06		1268	EV	35
	20.32		17478	VV	36
	20.55		3529	VB	37
	20.80		19404	BV	38
	20.96		4089	VV	39
	21.07		35281	VV	40
	21.31		21679	VV	41
	21.50		58928	VE	42
	21.68		4437	EV	43
	21.93		6899	EV	44
	22.14		35597	VV	45
	22.25		7016	VV	46
	22.32		13141	VV	47
	22.50		2565	VB	48
	22.76		12431	BV	49
	22.86		2848	VV	50

Sample ID: 65113 500X Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_020 Analysis Date: 6-MAY-1997 13:45:55

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	23.04		1763	VB	51
	23.52		5255	VV	52
	23.72		28718	VV	53
	23.80		4967	VV	54
	23.93		2405	VV	55
	24.12		1755	VV	56
	24.21		6939	VV	57
	24.37		21332	VE	58
	24.61		3472	EV	59
	24.85		3717	VV	60
	25.00		1356	VB	61
	25.94		7669	VB	62
	26.29		5756	BV	63
	26.47		891	VV	64
	26.62		6618	VB	65
	28.17		2075	BB	66
	28.37		3102	BB	67
	30.86		1029	BB	68
	35.02		1391	BB	69

Average result...92.1 UG/G

Run Number..... 20 End of Report.

Project No._____ ecology and environment, inc.

Book No. 1164 TITLE S P/PCB

From Page No.__

Batch 970425380P
Bd. Cal. 807-156-9

Test Performed: P/PCB SOIL
Method Number: 3550a/8080a
Date: 4/25/97
Work Performed By: Tim Lear

Job No.	ID No.		4/25/97 Amount	Solvent	Final Volume	Date Conc.	Sign	spk/Surr. Witness
9700.860	65106.01	3100	~~17.30~~ 30.0g	1:1 Hexane	10.0 ml	4/29/97	[signature]	[signature]
START chicago	65107.01	3100	~~19.27~~ 30.0g	Acetone				
	65108.01	3100	~~17.22~~	3 x 100 ml				
	65109.01	3100	~~19.28~~	Hexane Lot#				
	65110.01	3100	~~14.01~~	K50315				
	65111.01	3100	~~19.75~~	Acetone Lot#				
	65112.01	3100	~~20.01~~	K42272				
	65113.01	3100	~~19.58~~ 30.4					
	65112.01	MS 3120	30.0g					
	65112.01	MSD 3130						
LCS	1164-132-1	3120						
BLK	1164-132-2	3100						

200 µl. of 8081 Post. Surr. (1147-67-1) was added to each.
400 µl. of 8081 spk. (1147-54-1) was added to the MS, MSD and LCS.

[signature] 4/29/97

To Page No. 36

Witnessed & Understood by me,	Date	Invented by	Date
[signature]	5/1/97	Recorded by NA	

ecology and environment, inc.

154 Project No._____ Book No. 1164 TITLE _____

From Page No.__

Type Performed: PCB
Method Number: 3550a / 8080a
Date: 5-6-97
Work Performed By: [illegible]

Batch 970506322P
Bal. Cal. 807-157-8

Job No.	ID No.		Amount	Solvent	F.V.	Date Conc.	Sign.	Surr/SPK Witness
9700.904	65372.01	3200	30.0g	Hexane	10.0ml	5-7-97	[illegible]	[illegible]
↓	65373.01	3200	↓	3 X 100ml	↓	↓	↓	↓
↓	65374.01	3200	↓	↓	↓	↓	↓	↓
9700.973	65778.01	3200	↓	↓	↓	↓	↓	↓
9700.928	65592.01	3240	↓	↓	↓	↓	↓	↓
9700.860	65112.01 MS	3250	↓	↓	↓	↓	↓	↓
↓	65112.01 MSD	3260	↓	↓	↓	↓	↓	↓
SLCS	1164-154-1	3220	↓	↓	↓	↓	↓	↓
SLCS	1164-154-2	3230	↓	↓	↓	↓	↓	↓
SBlk	1164-154-3	3200	↓	↓	↓	↓	↓	↓

100ml 8081 PEST SURR (1147-67-1) Added To All Samples + Blank
200ml PCB SPK. (445-162-4) Added To 65112.01 (3250, 3260), SLCS 1164-154-1 (3220) + SLCS 1164-154-2 (3230)
1.0ml NJ 8081 SURR (1147-73-3) Added To All Samples + Blank

5/7/97

To Page No._____

Witnessed & Understood by me,	Date	Invented by	Date
[illegible]	5/12/97	NA	
		Recorded by	

370

Project No. 1167
Book No. TITLE

ECOLOGY & ENVIRONMENT, INC
ANALYTICAL SERVICES CENTER
GAS CHROMATOGRAPHY LAB
INSTRUMENT RUNLOG

Notebook # 1167 Page# 62

Analytical Method: ~~P/PCB screens~~ PCB's 5/6/97
Instrument ID: HP5890#1
Operator: R. Neary Initials: RN Date: 05/02/97

GC Temperature Information

Initial Oven Temp: 150 C
Initial Oven Hold: 1.0 Min
Oven Temp. Ramp: 5C/Min
Final Oven Temp: 280 C
Final Oven Hold: 11.0 Min
Injector Temp: 200 C
Detector Temp: 300 C
Injection Vol: 2.0 uL
Detector A,B :ECD,ECD
Range: 2,2
Attn : 2,2

FLOW(He) 4.0mL/Min

Column Information

Column 1 : RTX-5 Channel 5
5%-Diphenyl - 95% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 1.0 uM

Column 2 : RTX-35 Channel 6
35%-Diphenyl - 65% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 0.50 uM

Test Performed: ~~P/PCB~~ PCB's 5/6/97
Method Number: 8081
Date: 05/02/97
Work Performed By: RNeary

Job #860 Ch. 5 Primary 1242 1660 1254

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
	HEXANE	1	5/~~5~~6_0502_001	1	BH610	RN
	0.1UG/ML AR1016/1260	2	5/5_0502_002	1	445-160-1	
	0.2UG/ML AR1016/1260	3	5/5_0502_003	1	445-160-2	
	0.4UG/ML AR1016/1260	4	5/5_0502_004	1	445-160-3	
	0.5UG/ML AR1016/1260	5	5/5_0502_005	1	445-160-4	
	1.0UG/ML AR1016/1260	6	5/5_0502_006	1	445-160-5	
	0.1UG/ML AR1254	7	5/5_0502_007	1	445-160-7	
	0.2UG/ML AR1254	8	5/5_0502_008	1	445-160-8	
	0.4UG/ML AR1254	9	5/5_0502_009	1	445-160-9	
	0.5UG/ML AR1254	10	5/5_0502_010	1	445-160-10	
	1.0UG/ML AR1254	11	5/5_0502_011	1	445-160-11	
	0.1 UG/ML AR1248	12	5/5_0502_012	1	445-163-~~1~~2	
	0.2 UG/ML AR1248	13	5/5_0502_013	1	445-163-2	
	0.4 UG/ML AR1248	14	5/5_0502_014	1	445-163-3	
	0.5 UG/ML AR1248	15	5/5_0502_015	1	445-163-4	
	1.0 UG/ML AR1248	16	5/5_0502_016	1	445-163-5	
5700-860	SLCS1164-132-1 2X	17	5/5_0502_017	2	48, 4,504 (400.1/8000)	
1	SBLK1164-132-2 1X	18	5/5_0502_018	1	1	

Witnessed & Understood by me. Date 5/6/97 Invented by Date 3/1
Recorded by

Test Performed: PCB
Method Number: 8081
Date: 05/03/97
Work Performed By: R. Nagy

GC PARAMETER REF: Pg. 62

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
9700.160	65106 5X	19	5/5_0502_019	5	H_2, H_2SO_4 (200ul/ml)	
	65107 10X	20	5/5_0502_020	10	(100ul/ml)	
	65108 1X	21	5/5_0502_021	1		
	65109 10X	22	5/5_0502_022	10	(100ul/ml)	
	65110 1X	23	5/5_0502_023	1		
	65111 20X	24	5/5_0502_024	20	(50ul/ml)	
	65112 10X	25	5/5_0502_025	10	(100ul/ml)	
	65112 MS 10X	26	5/5_0502_026	10		
	HEXANE	27	5/5_0502_027	1	BHS10	
	0.4UG/ML AR1660	28	5/5_0502_028	1	YYS-160-3	
9700.160	65112 MSD 10X	29	5/5_0502_029	10	H_2, H_2SO_4 (100ul/ml)	
	65113 500X	30	5/5_0502_030	500	(100ul/ml)(100ul/ml)	
9700.157	SLCS1164-133-3 2X	31	5/5_0502_031	2	(100ul/mul)	
	SLCS1164-133-4 2X	32	5/5_0502_032	2		
	SBLK1164-133-5 1X	33	5/5_0502_033	1		
9700.157	SLCS1164-140-1 2X	34	5/5_0502_034	2	(100ul/mul)	
	SLCS1164-140-2 2X	35	5/5_0502_035	2		
	SBLK1164-140-3 1X	36	5/5_0502_036	2		
9700.157	65071 1X	37	5/5_0502_037	1		
	65072 1X	38	5/5_0502_038	1		
	HEXANE	39	5/5_0502_039	1	BHS10	
	0.4UG/ML AR1254	40	5/5_0502_040	1	YYS-160-9	
9700.157	65073 1X	41	5/5_0502_041	1	H_2, H_2SO_4	
	65074 1X	42	5/5_0502_042	1		
	65075 1X	43	5/5_0502_043	1		
	64076 1X	44	5/5_0502_044	1		
	65077 1X	45	5/5_0502_045	1		
	65078 1X	46	5/5_0502_046	1		
	65079 1X	47	5/5_0502_047	1		
	65080 1X	48	5/5_0502_048	1		
	65081 1X	49	5/5_0502_049	1		
	65082 1X	50	5/5_0502_050	1		
	HEXANE	51	5/5_0502_051	1	BHS10	
	0.4UG/ML AR1248	52	5/5_0502_052	1	YYS-163-3	
9700.157	65083 1X	53	5/5_0502_053	1	H_2, H_2SO_4	
	65084 1X	54	5/5_0502_054	1		
	65085 1X	55	5/5_0502_055	1		
	65086 1X	56	5/5_0502_056	1		
	65087 1X	57	5/5_0502_057	1		
	65088 1X	58	5/5_0502_058	1		
	65089 1X	59	5/5_0502_059	1		
	65090 1X	60	5/5_0502_060	1		
9700.158	65091 1X	61	5/5_0502_061	1		
	65092 1X	62	5/5_0502_062	1		
	HEXANE	63	5/5_0502_063	1	BHS10	
	0.4UG/ML AR1254	64	5/5_0502_064	1	YYS-160-9	

Witnessed & Understood by me,	Date	Invented by	Date	
[signature]	5/6/97	Recorded by		372

Project No.
Book No. 1167 TITLE

Test Performed: PCB
Method Number: 8081
Date: 05/04/97
Work Performed By: R. Neary

GC PARAMETER REF: pg 62

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
9700.658	65093 1X	65	5/~~5~~6_0502_065	1	Hg, H2SO4	R
	65094 1X	66	5/5_0502_066	1		
	65095 1X	67	5/5_0502_067	1		
	65096 1X	68	5/5_0502_068	1		
	65097 1X	69	5/5_0502_069	1		
	65098 1X	70	5/5_0502_070	1		
	65099 1X	71	5/5_0502_071	1		
	65100 1X	72	5/5_0502_072	1		
	65101 1X	73	5/5_0502_073	1		
	65102 1X	74	5/5_0502_074	1		
	HEXANE	75	5/5_0502_075	1	84070	
	0.4UG/ML AR1660	76	5/5_0502_076	1	443-160-3	

RN 5/6/97

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To Page No.

Witnessed & Understood by me.	Date	Invented by	Date
Daniel [illegible]	5/6/97	Recorded by	

Project No.
Book No. 1167 TITLE

ECOLOGY & ENVIRONMENT, INC
ANALYTICAL SERVICES CENTER
GAS CHROMATOGRAPHY LAB
INSTRUMENT RUNLOG

Notebook # 1167 Page# 20

Analytical Method:
Instrument ID: HP5890 #1A+B
Operator: R. Nacey Initials: R.N Date: 3/6/97

GC Temperature Information

Initial Oven Temp: 150 C
Initial Oven Hold: 1 Min
Oven Temp. Ramp: 5 C/Min
Final Oven Temp: 200 C
Final Oven Hold: 11 Min
Injector Temp: 200 C
Detector Temp: 300 C
Injection Vol: 2.0 uL
Detector FID : ECD
Range: 2,2
Attn : 2,2

FLOW(He) @ PSI 4.0 mL/Min

Column Information

Column 1 : RTX-5 (CH.5)
5%-Diphenyl - 95% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 1.0 uM

Column 2 : RTX-35 (CH.6)
35%-Diphenyl - 65% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 0.50 uM

Test Performed: PCB MDL's
Method Number: 8081
Date: 3/6/97
Work Performed By: R. Nacey

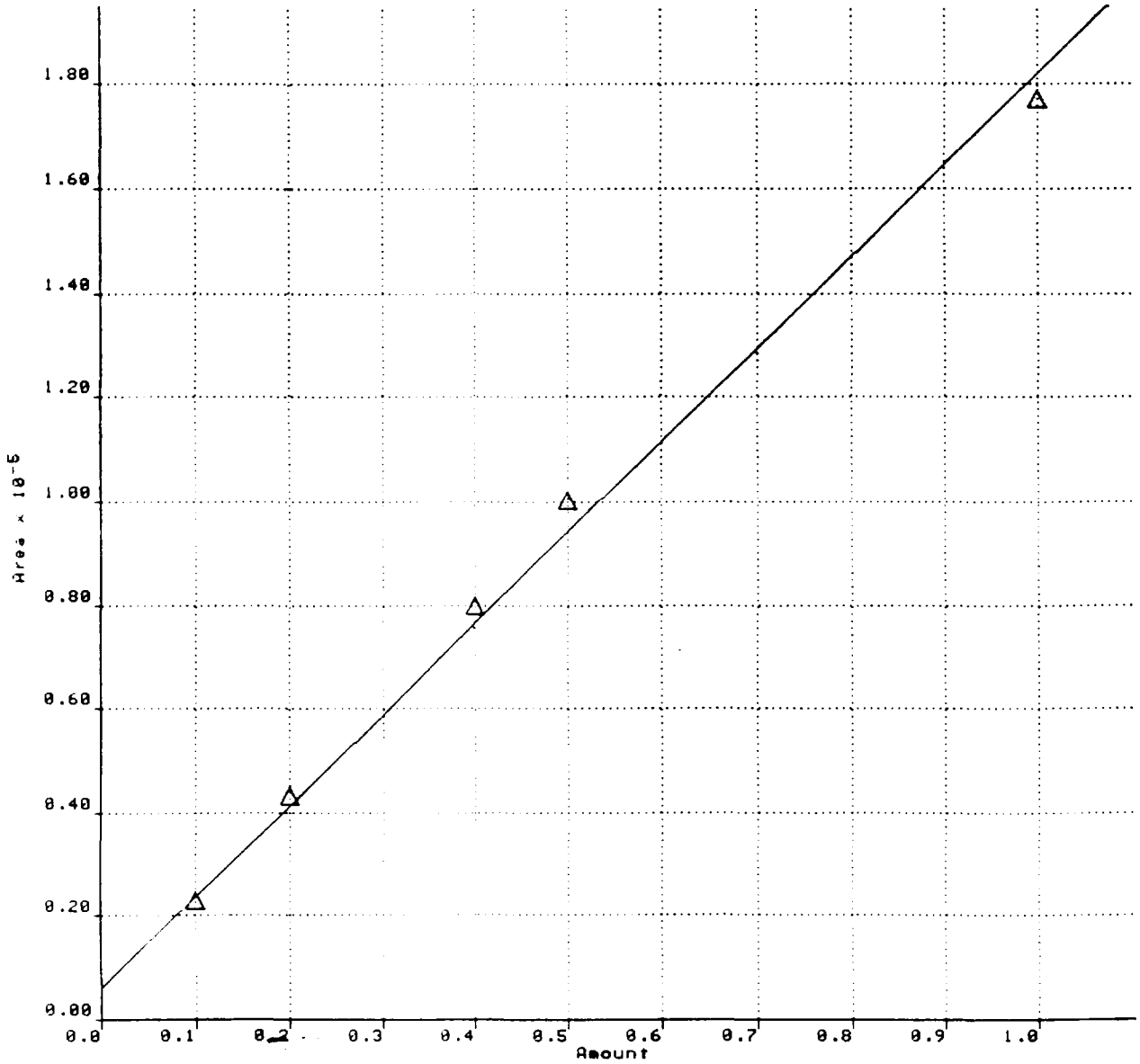
Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
	HEXANE	1	5/6_0306_001		BM563	RN
	0.10 AR1242	2	6_0306_002		445-157-11	
	0.20 AR1242	3	6_0306_003		445-157-12	
	0.40 AR1242	4	6_0306_004		445-157-13	
	0.50 AR1242	5	6_0306_005		445-157-14	
	1.0 AR1242	6	6_0306_006		445-157-15	
	SLCS1617 1X	7	6_0306_007		Hy	
	SLCS1618 1X	8	6_0306_008			
	SLCS1619 1X	9	6_0306_009			
	SLCS1620 1X	10	6_0306_010			
	SLCS1621 1X	11	6_0306_011			
	SLCS1622 1X	12	6_0306_012			
	SLCS1623 1X	13	6_0306_013			
	SLCS1624 1X	14	6_0306_014			
	0.4UG/ML AR1242	15	6_0306_015		445-157-13	
	WLCS1726 1X	16	6_0306_016		Hy	
	WLCS1727 1X	17	6_0306_017			
	WLCS1728 1X	18	6_0306_018			

Reviewed by [illegible]

Witnessed & Understood by me: [illegible] Date: 3/11/97
Invented by
Recorded by
Date

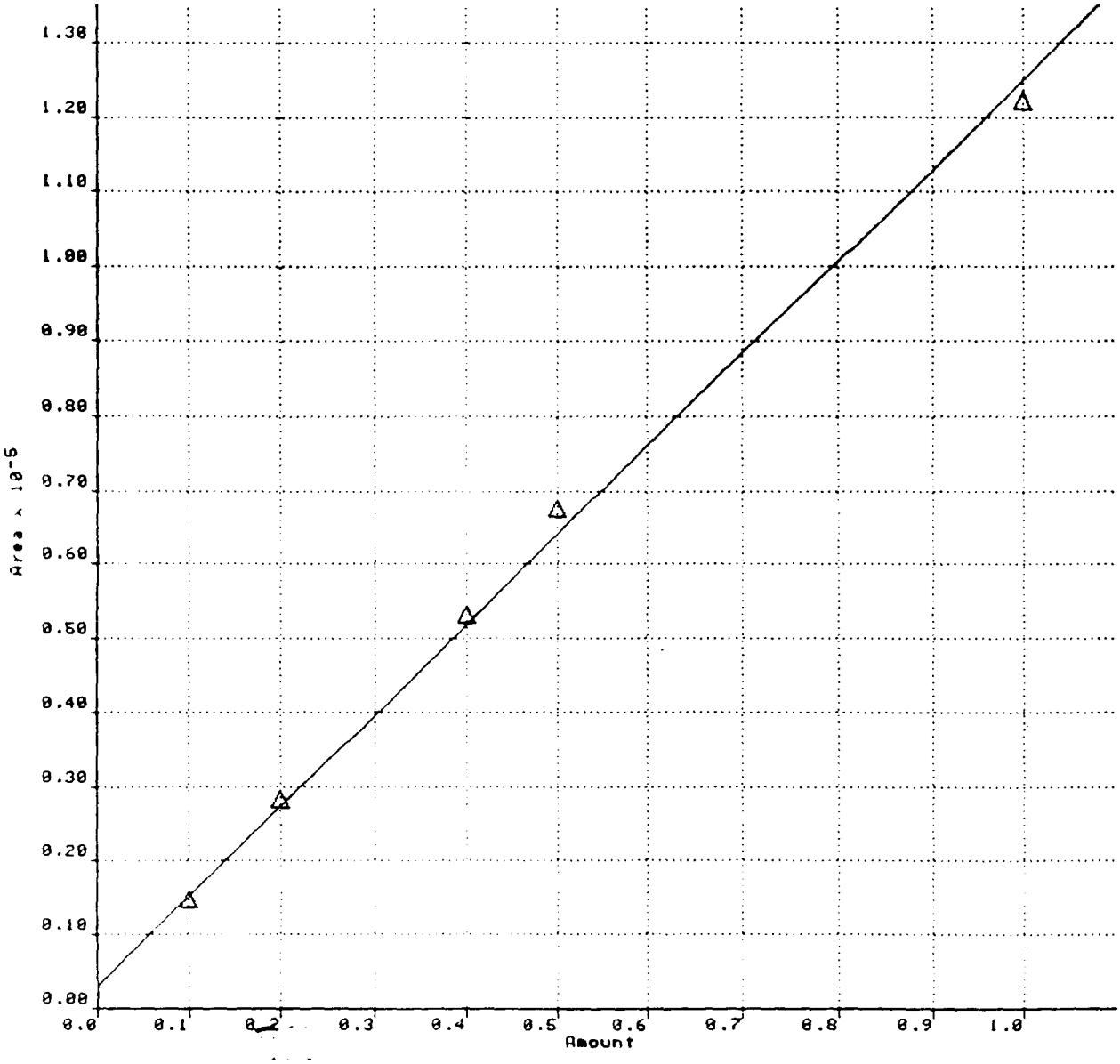
Method: DKB100:[LEWANDOWSKI]5_AR1242_0306.MET;13
Component: AROCLOR-1242
Date: 7-MAR-1997 07:16:42.36
Linear fit, Origin Treament....Use.
K0: 6.0215E+03 K1: 1.7602E+05
Coeff. of determination: 0.9951

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1242	23047	0.10000	
0.20 AR1242	43089	0.20000	
0.40 AR1242	79697	0.40000	
0.50 AR1242	100215	0.50000	
1.0 AR1242	177333	1.0000	



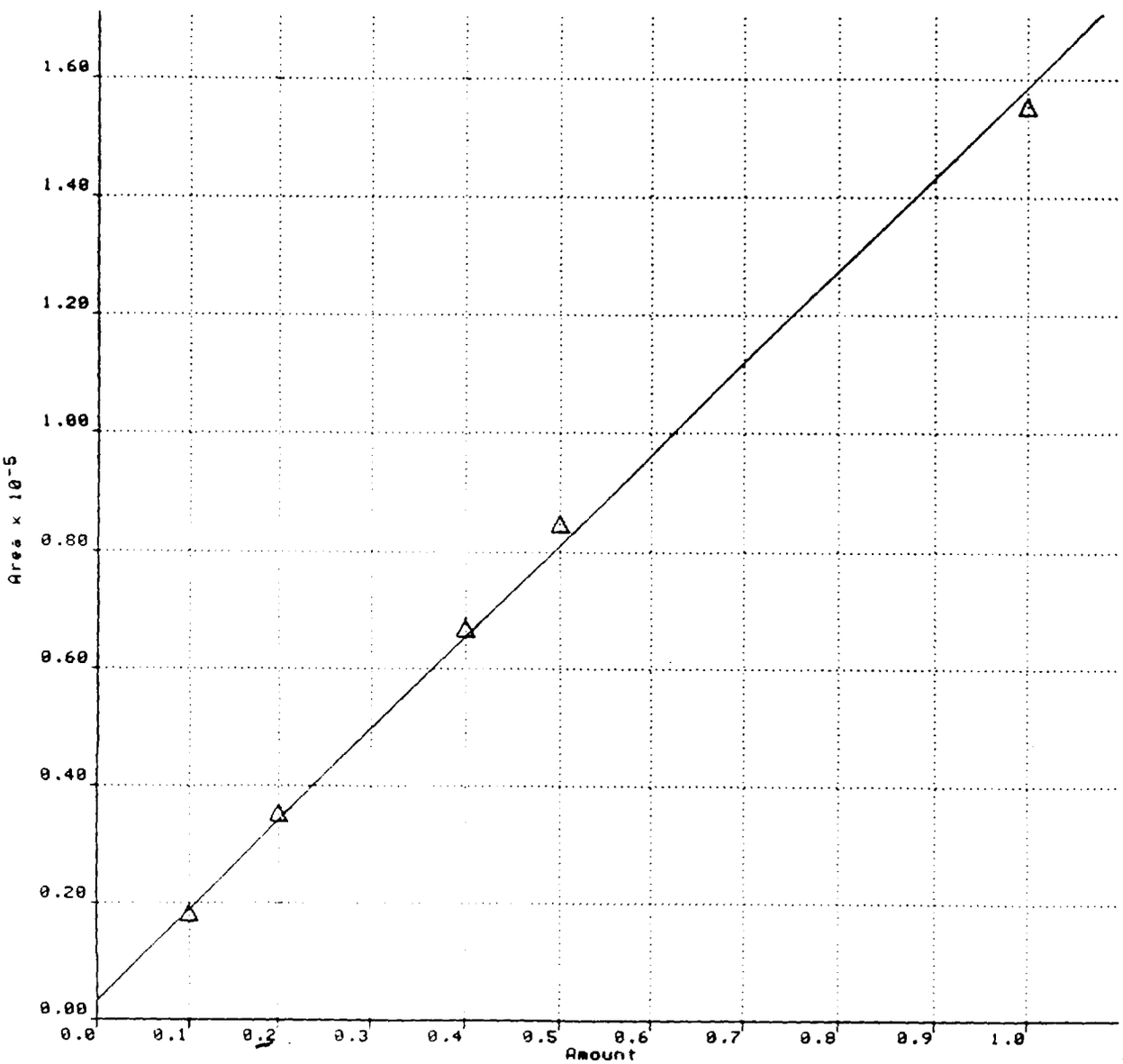
Method: DKB100:[LEWANDOWSKI]5_AR1242_0306.MET;13
Component: AROCLOR-1242-2
Date: 7-MAR-1997 07:16:42.64
Linear fit, Origin Treament....Use.
K0: 3.0561E+03 K1: 1.2184E+05
Coeff. of determination: 0.9968

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1242	14776	0.10000	
0.20 AR1242	28371	0.20000	
0.40 AR1242	53209	0.40000	
0.50 AR1242	67702	0.50000	
1.0 AR1242	122317	1.0000	



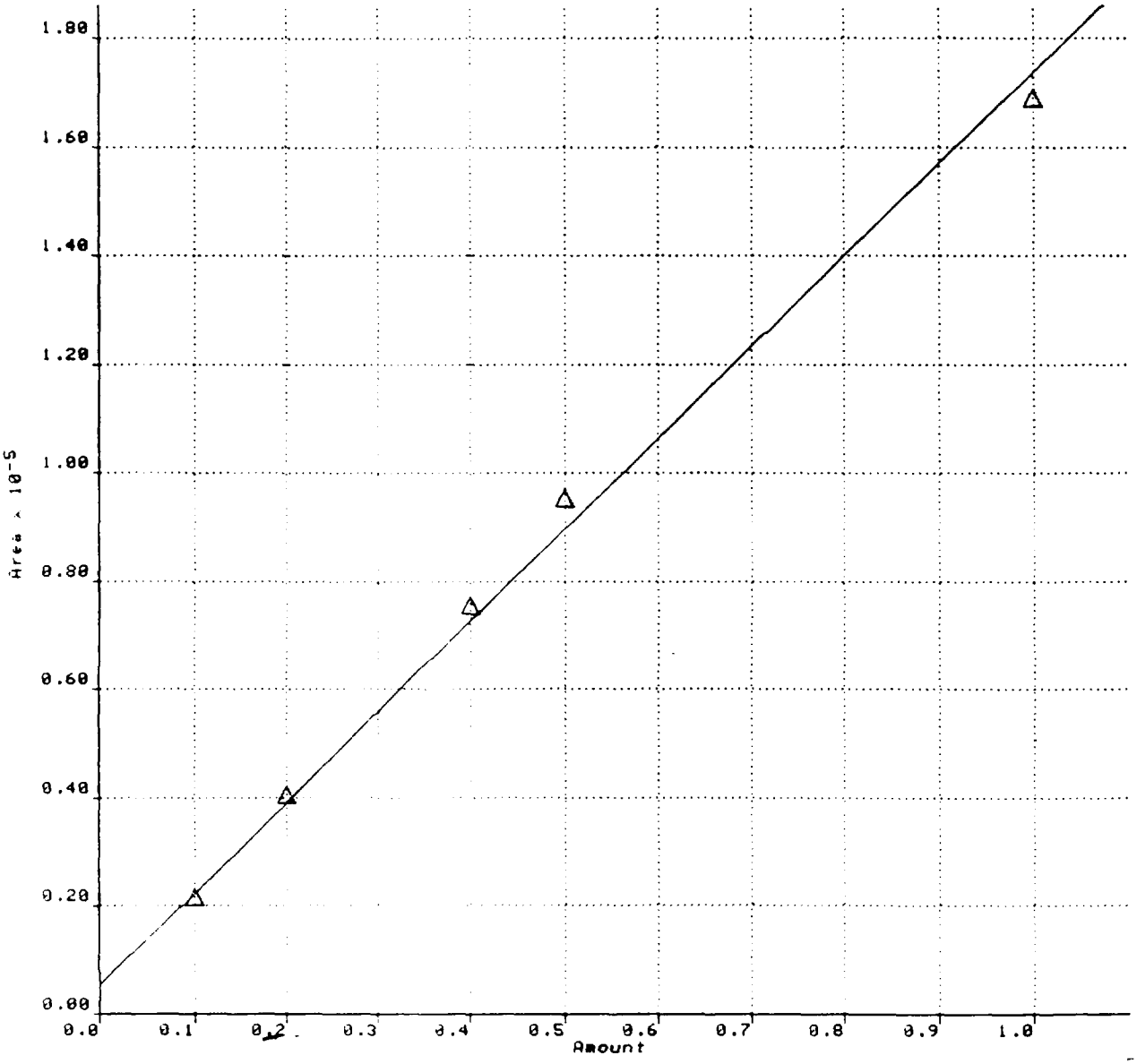
Method: DKB100:[LEWANDOWSKI]5_AR1242_0306.MET;13
Component: AROCLOR-1242-3
Date: 7-MAR-1997 07:16:42.97
Linear fit, Origin Treament....Use.
K0: 3.3016E+03 K1: 1.5496E+05
Coeff. of determination: 0.9977

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1242	18347	0.10000	
0.20 AR1242	35178	0.20000	
0.40 AR1242	66860	0.40000	
0.50 AR1242	84885	0.50000	
1.0 AR1242	155442	1.0000	



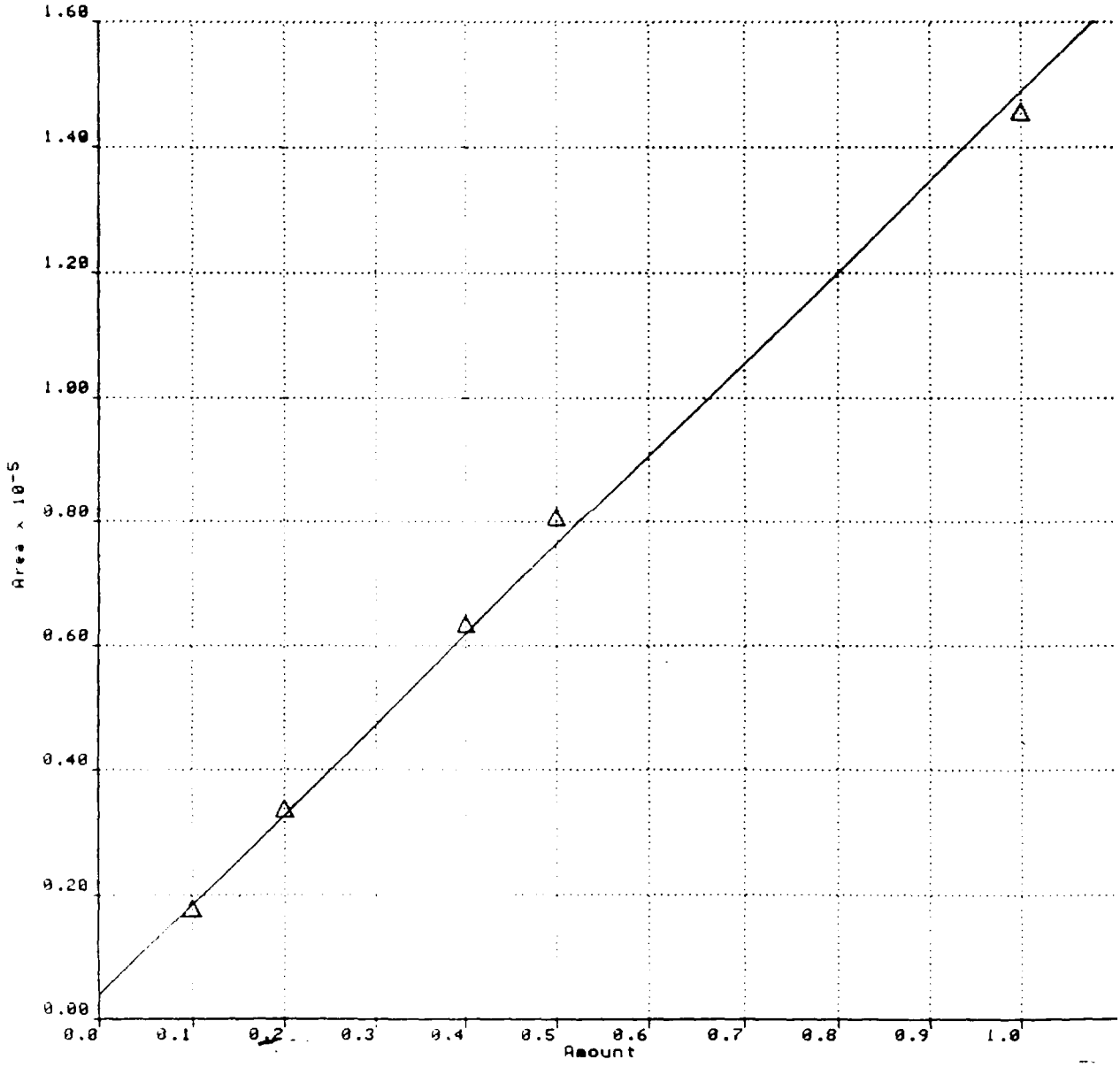
Method: DKB100:[LEWANDOWSKI]5_AR1242_0306.MET;13
Component: AROCLOR-1242-4
Date: 7-MAR-1997 07:16:43.33
Linear fit, Origin Treament....Use.
K0: 5.4199E+03 K1: 1.6807E+05
Coeff. of determination: 0.9953

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1242	21585	0.10000	
0.20 AR1242	40670	0.20000	
0.40 AR1242	75457	0.40000	
0.50 AR1242	95464	0.50000	
1.0 AR1242	169101	1.0000	



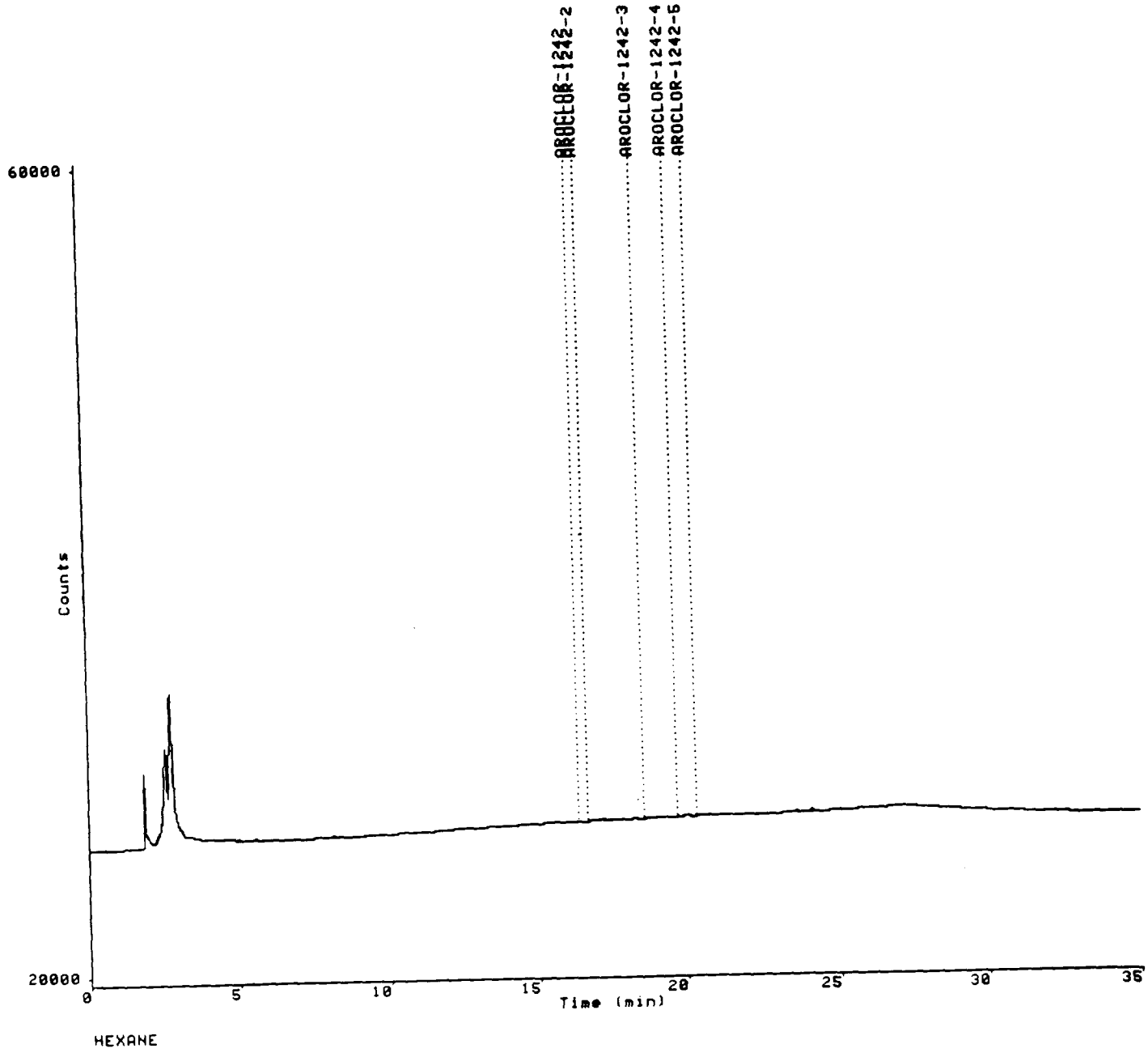
Method: DKB100:[LEWANDOWSKI]5_AR1242_0306.MET;13
Component: AROCLOR-1242-5
Date: 7-MAR-1997 07:16:43.71
Linear fit, Origin Treament....Use.
K0: 3.8258E+03 K1: 1.4493E+05
Coeff. of determination: 0.9966

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1242	17929	0.10000	
0.20 AR1242	33823	0.20000	
0.40 AR1242	63584	0.40000	
0.50 AR1242	80885	0.50000	
1.0 AR1242	145583	1.0000	



Run Number..... 1
Sample Name..... HEXANE
Run Date..... 6-MAR-1997 11:48:01
Raw File..... 5_0306_001
Method Name..... 5_AR1242_0306
Method Type..... Linear

HP58901A 30M 0.53mm RTX-5 2uL INJ



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE
Datafile: 5_0306_001

Instrument: HP58901A 30M 0.53mm RTX-5 2uL INJ
Analysis Date: 6-MAR-1997 11:48:01

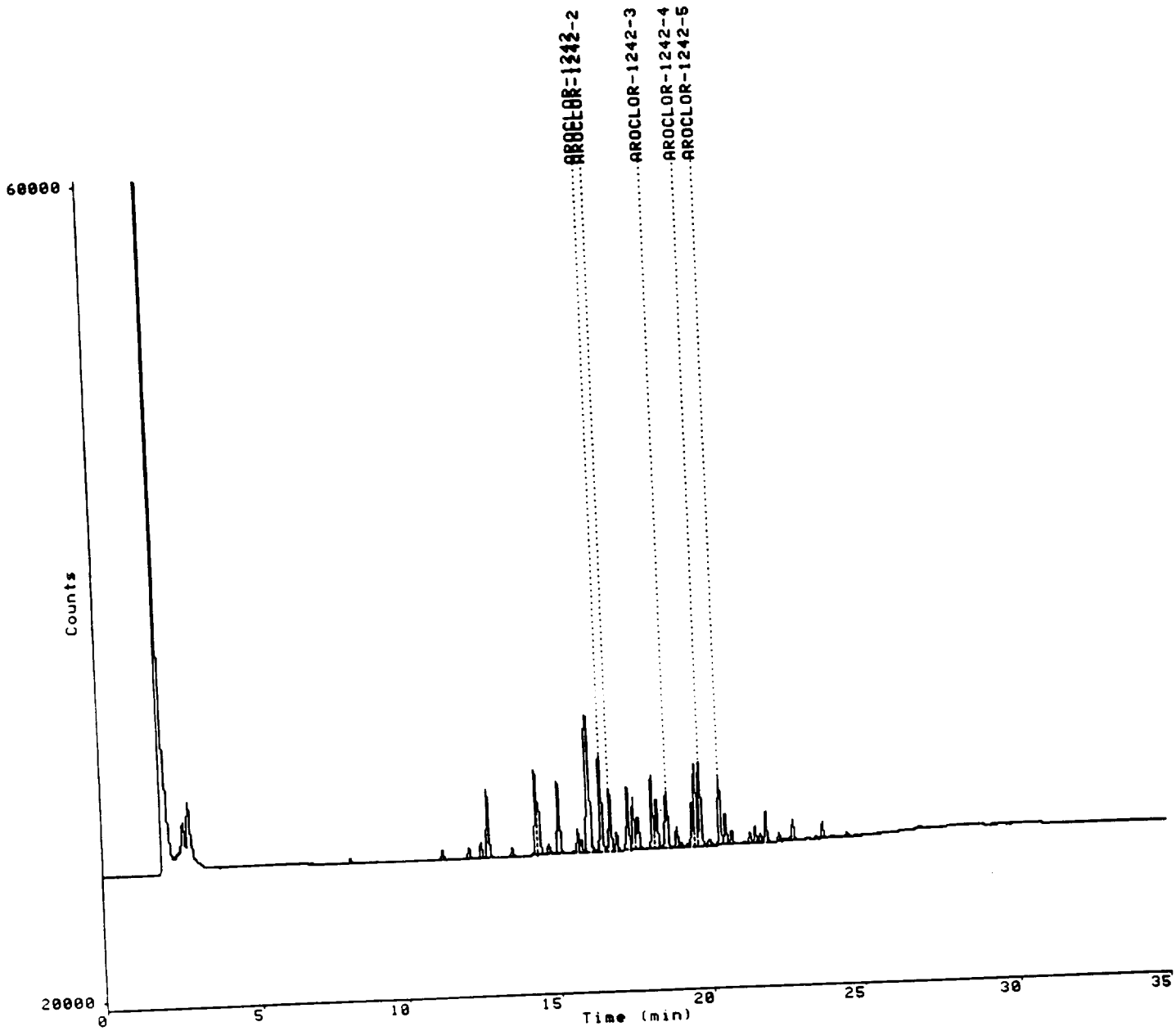
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.

Average result...0.00000 UG/ML

Run Number..... 1 End of Report.

Run Number..... 2
Sample Name..... 0.10 AR1242
Run Date..... 6-MAR-1997 12:30:19
Raw File..... 5_0306_002
Method Name..... 5_AR1242_0306
Method Type..... Linear

HP58901A 30M 0.53mm RTX-5 2uL INJ



0.10 AR1242

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.10 AR1242 Instrument: HP58901A 30M 0.53mm RTX-5 2uL INJ
Datafile: 5_0306_002 Analysis Date: 6-MAR-1997 12:30:19

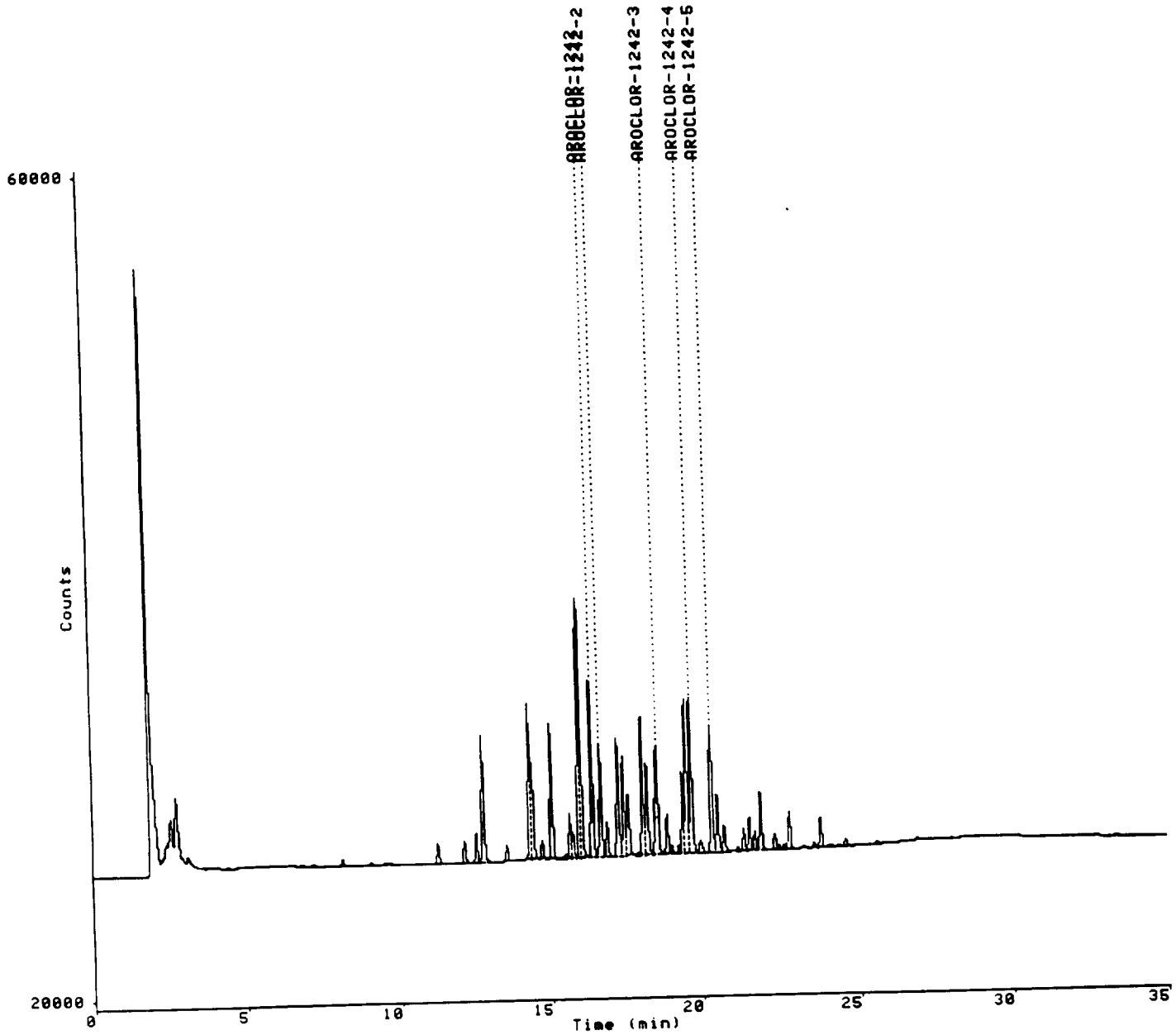
Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	12.77		16727	VB	1
	14.35		20999	BV	2
	14.44		11450	VV	3
	15.09		17839	BB	4
	15.71		5258	VV	5
	16.07		53282	VV	6
AROCLOR-1242	16.46	0.0967	23047	VV	7
AROCLOR-1242-2	16.76	0.0962	14776	VV	8
	16.96		4207	VB	9
	17.34		17055	BV	10
	17.51		12559	VV	11
	17.66		10382	VE	12
	18.14		17798	VV	13
	18.28		12778	VV	14
AROCLOR-1242-3	18.61	0.0971	18347	VV	15
	18.93		5097	VE	16
	19.43		9748	VV	17
	19.56		19706	VV	18
AROCLOR-1242-4	19.71	0.0962	21585	VE	19
AROCLOR-1242-5	20.35	0.0973	17929	BV	20
	20.54		7848	VV	21
	21.54		4250	VV	22
	21.90		7441	VB	23
	22.81		5306	VB	24

Average result...0.0967 UG/ML

Run Number..... 2 End of Report.

Run Number..... 3
Sample Name..... 0.20 AR1242
Run Date..... 6-MAR-1997 13:12:39
Raw File..... 5_0306_003
Method Name..... 5_AR1242_0306
Method Type..... Linear

HP58901A 30M 0.53mm RTX-5 2uL INJ



0.20 AR1242

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.20 AR1242 Instrument: HP58901A 30M 0.53mm RTX-5 2uL INJ
Datafile: 5_0306_003 Analysis Date: 6-MAR-1997 13:12:39

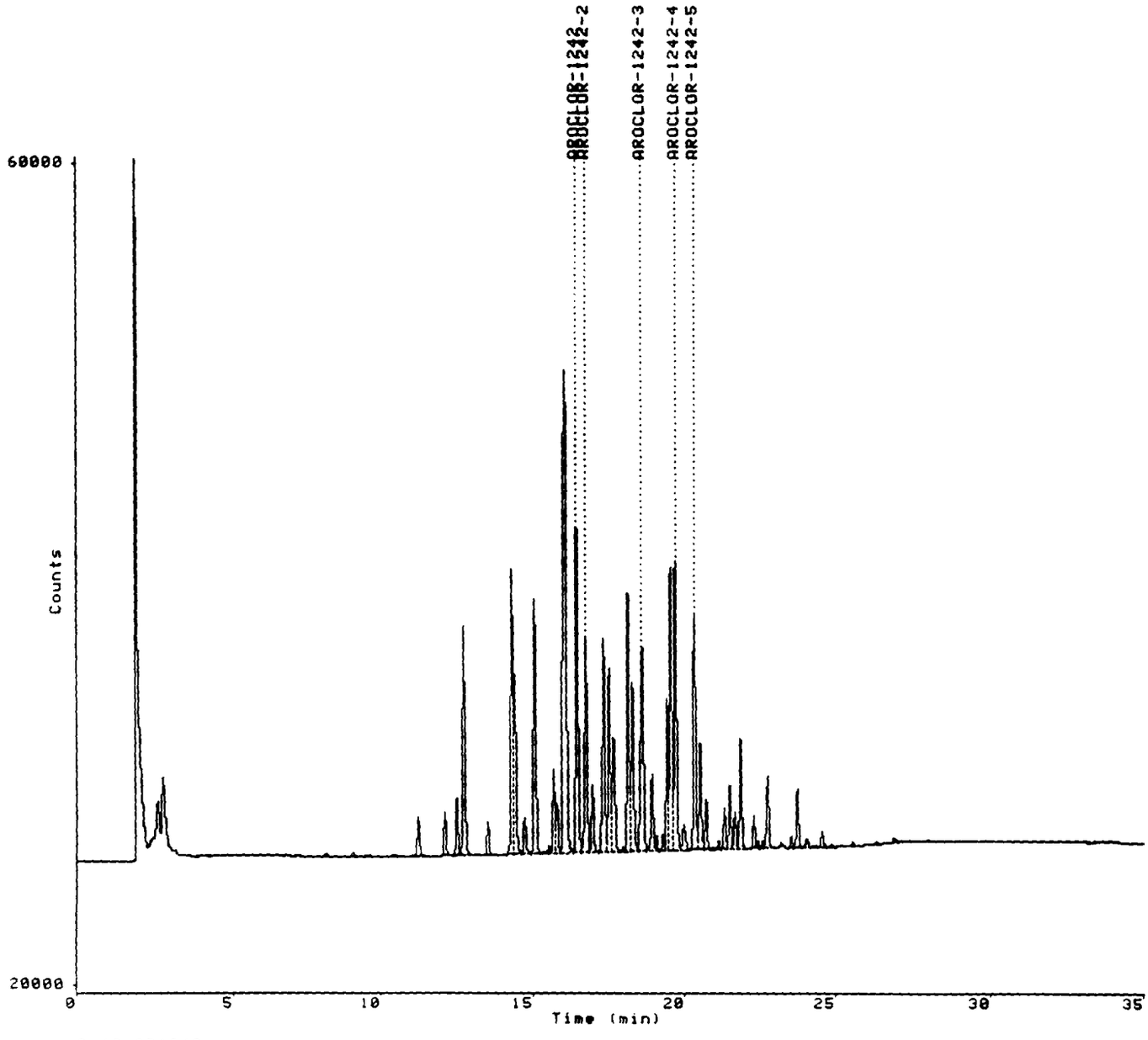
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.26		4978	BB	1
	12.14		5719	BB	2
	12.54		6979	BV	3
	12.77		31081	VB	4
	13.55		4047	BB	5
	14.34		38622	BV	6
	14.43		21670	VV	7
	14.75		4998	VV	8
	15.08		33781	VE	9
	15.70		10223	VV	10
	15.81		5744	VV	11
	16.03		40100	VV	12
	16.07		59583	VV	13
AROCLOR-1242	16.46	0.211	43089	VV	14
AROCLOR-1242-2	16.75	0.208	28371	VV	15
	16.96		8574	VV	16
	17.33		31335	VV	17
	17.50		23629	VV	18
	17.65		19799	VE	19
	18.13		33636	VV	20
	18.28		24398	VV	21
AROCLOR-1242-3	18.60	0.206	35178	VV	22
	18.92		9902	VE	23
	19.43		18536	VV	24
	19.55		36667	VV	25
AROCLOR-1242-4	19.70	0.210	40670	VE	26
	19.98		4379	EV	27
AROCLOR-1242-5	20.34	0.207	33823	VV	28
	20.53		14938	VV	29
	20.73		6295	VB	30
	21.35		5497	BV	31
	21.53		8222	VV	32
	21.70		4462	VV	33
	21.89		14197	VB	34
	22.80		10135	VB	35
	23.79		7742	VE	36

Average result...0.208 UG/ML

Run Number..... 3 End of Report.

Run Number..... 4
Sample Name..... 0.40 AR1242
Run Date..... 6-MAR-1997 13:54:56
Raw File..... 5_0306_004
Method Name..... 5_AR1242_0306
Method Type..... Linear

HP58901A 30M 0.53mm RTX-5 2uL INJ



0.40 AR1242

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.40 AR1242 Instrument: HP58901A 30M 0.53mm RTX-5 2uL INJ
Datafile: 5_0306_004 Analysis Date: 6-MAR-1997 13:54:56

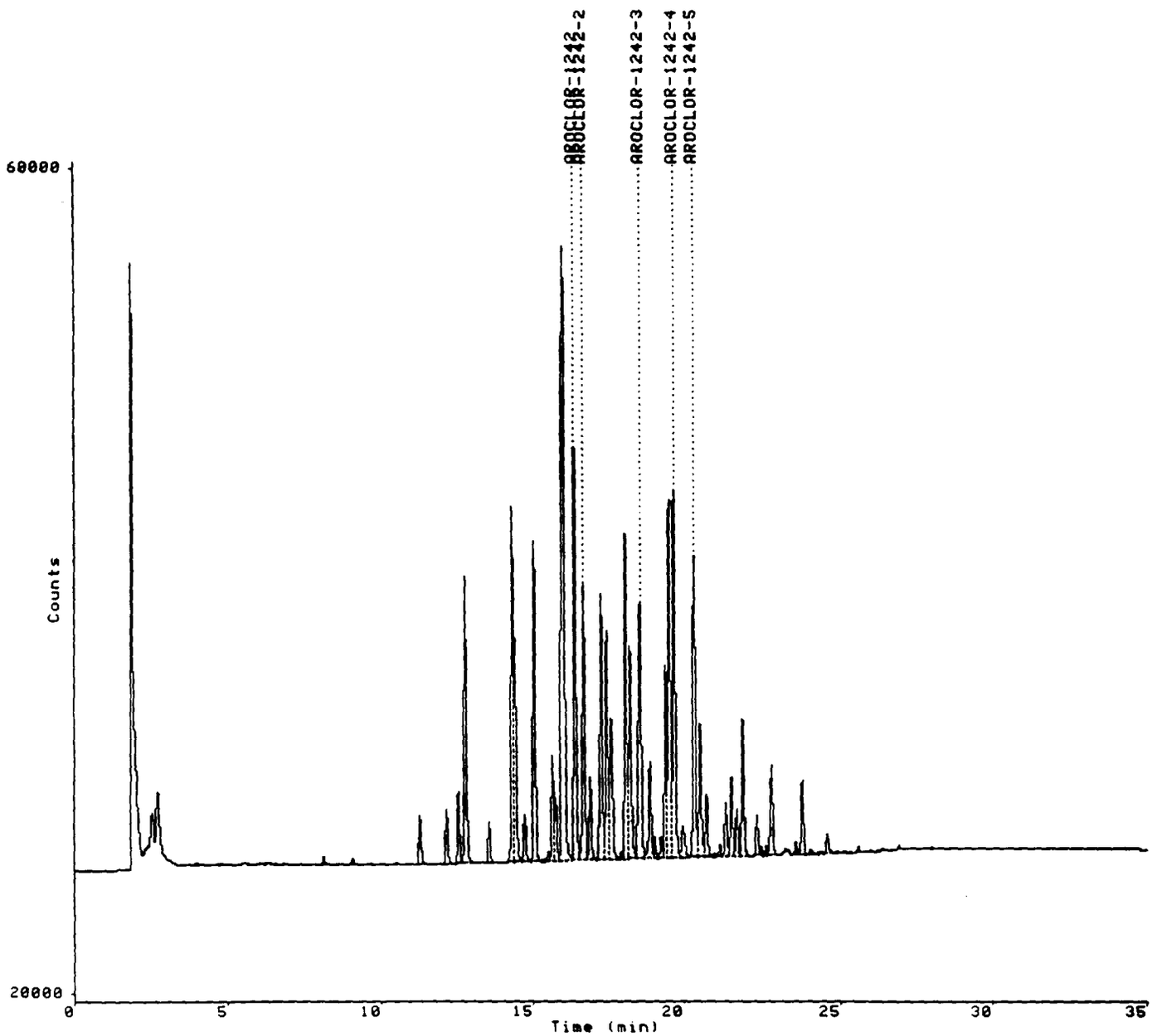
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.26		9637	BB	1
	12.14		11124	BB	2
	12.53		13339	BV	3
	12.76		57181	VB	4
	13.55		7885	BB	5
	14.34		70437	BV	6
	14.43		40309	VV	7
	14.75		9717	VV	8
	15.08		63272	VE	9
	15.70		19281	VV	10
	15.80		11016	VV	11
	16.06		184922	VV	12
AROCLOR-1242	16.45	0.419	79697	VV	13
AROCLOR-1242-2	16.75	0.412	53209	VV	14
	16.95		16183	VV	15
	17.33		57899	VV	16
	17.50		43757	VV	17
	17.65		37001	VE	18
	18.13		62538	VV	19
	18.27		45182	VV	20
AROCLOR-1242-3	18.60	0.410	66860	VV	21
	18.92		19200	VE	22
	19.42		34596	VV	23
	19.55		67487	VV	24
AROCLOR-1242-4	19.70	0.417	75457	VE	25
	19.98		8934	EV	26
AROCLOR-1242-5	20.34	0.412	63584	VV	27
	20.53		28028	VV	28
	20.73		12250	VE	29
	21.35		10575	VV	30
	21.53		15734	VV	31
	21.70		8694	VV	32
	21.89		26795	VB	33
	22.33		7900	BE	34
	22.80		19186	VB	35
	23.78		14542	VV	36
	24.59		4299	VV	37

Average result...0.414 UG/ML

Run Number..... 4 End of Report.

Run Number..... 5
Sample Name..... 0.50 AR1242
Run Date..... 6-MAR-1997 14:37:27
Raw File..... 5_0306_005
Method Name..... 5_AR1242_0306
Method Type..... Linear

HP58901A 30M 0.53mm RTX-5 2uL INJ



0.50 AR1242

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.50 AR1242 Instrument: HP58901A 30M 0.53mm RTX-5 2uL INJ
Datafile: 5_0306_005 Analysis Date: 6-MAR-1997 14:37:27

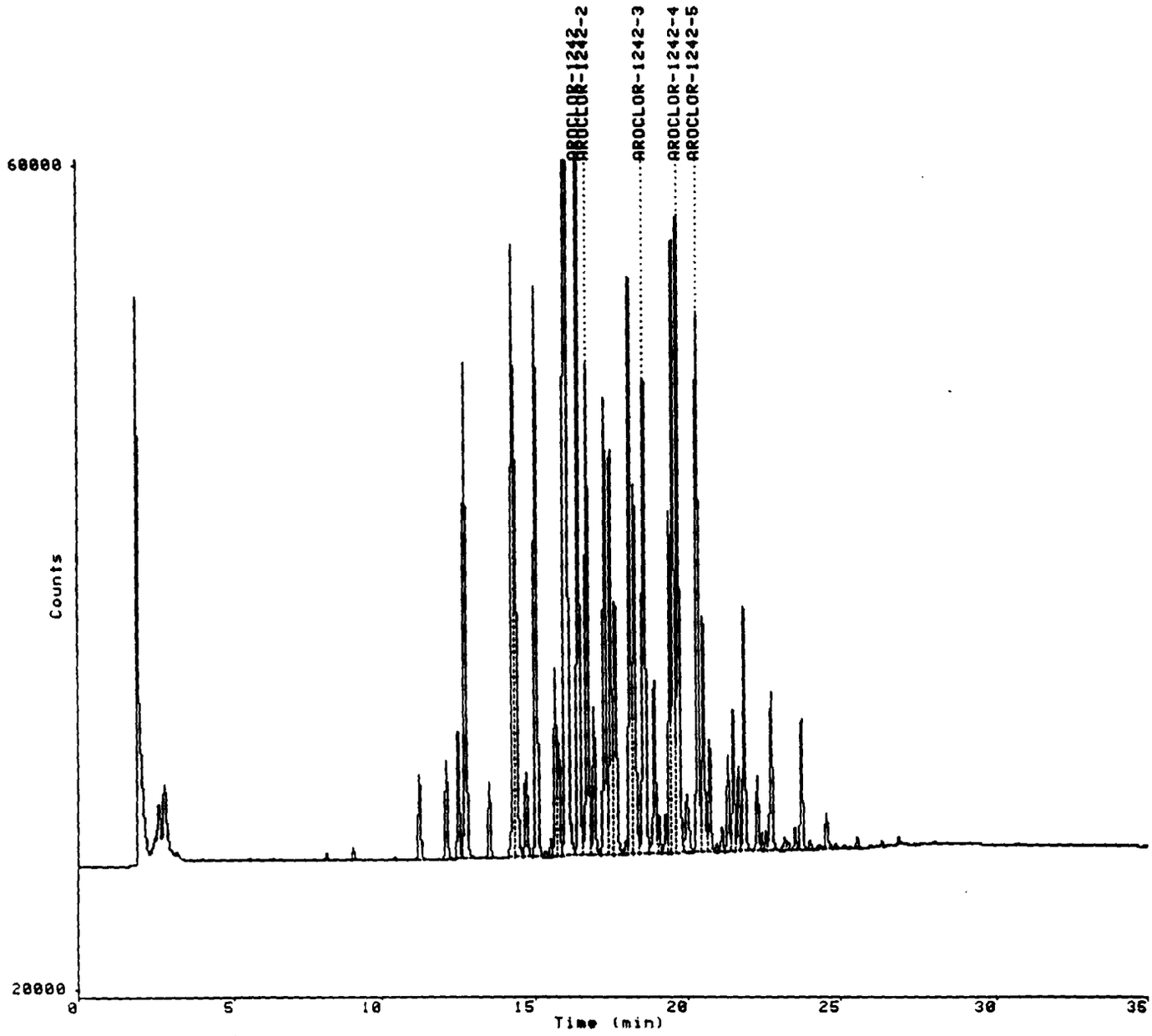
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.26		11982	BB	1
	12.14		13853	BB	2
	12.54		16698	BV	3
	12.76		71009	VB	4
	13.55		9978	BB	5
	14.34		87300	BV	6
	14.43		50459	VV	7
	14.75		12521	VV	8
	15.08		79264	VE	9
	15.70		24437	VV	10
	15.81		14120	VV	11
	16.06		233226	VV	12
AROCLOR-1242	16.45	0.535	100215	VV	13
AROCLOR-1242-2	16.75	0.531	67702	VV	14
	16.96		20691	VV	15
	17.33		71289	VV	16
	17.50		54756	VV	17
	17.65		46653	VE	18
	18.13		78410	VV	19
	18.27		57122	VV	20
AROCLOR-1242-3	18.60	0.526	84885	VV	21
	18.92		24841	VE	22
	19.07		4539	EV	23
	19.28		4981	VV	24
	19.42		43973	VV	25
	19.55		84825	VV	26
AROCLOR-1242-4	19.70	0.536	95464	VE	27
	19.98		11925	EV	28
AROCLOR-1242-5	20.34	0.532	80885	VV	29
	20.53		35318	VV	30
	20.73		15637	VE	31
	21.34		13578	VV	32
	21.53		20019	VV	33
	21.70		11066	VV	34
	21.89		34061	VB	35
	22.33		9918	BE	36
	22.80		24205	VB	37
	23.78		18611	VE	38
	24.59		5532	VV	39

Average result...0.532 UG/ML

Run Number..... 5 End of Report.

Run Number..... 6
Sample Name..... 1.0 AR1242
Run Date..... 6-MAR-1997 15:20:07
Raw File..... 5_0306_006
Method Name..... 5_AR1242_0306
Method Type..... Linear

HP58901A 30M 0.53mm RTX-5 2uL INJ



1.0 AR1242

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0 AR1242 Instrument: HP58901A 30M 0.53mm RTX-5 2uL INJ
Datafile: 5_0306_006 Analysis Date: 6-MAR-1997 15:20:07

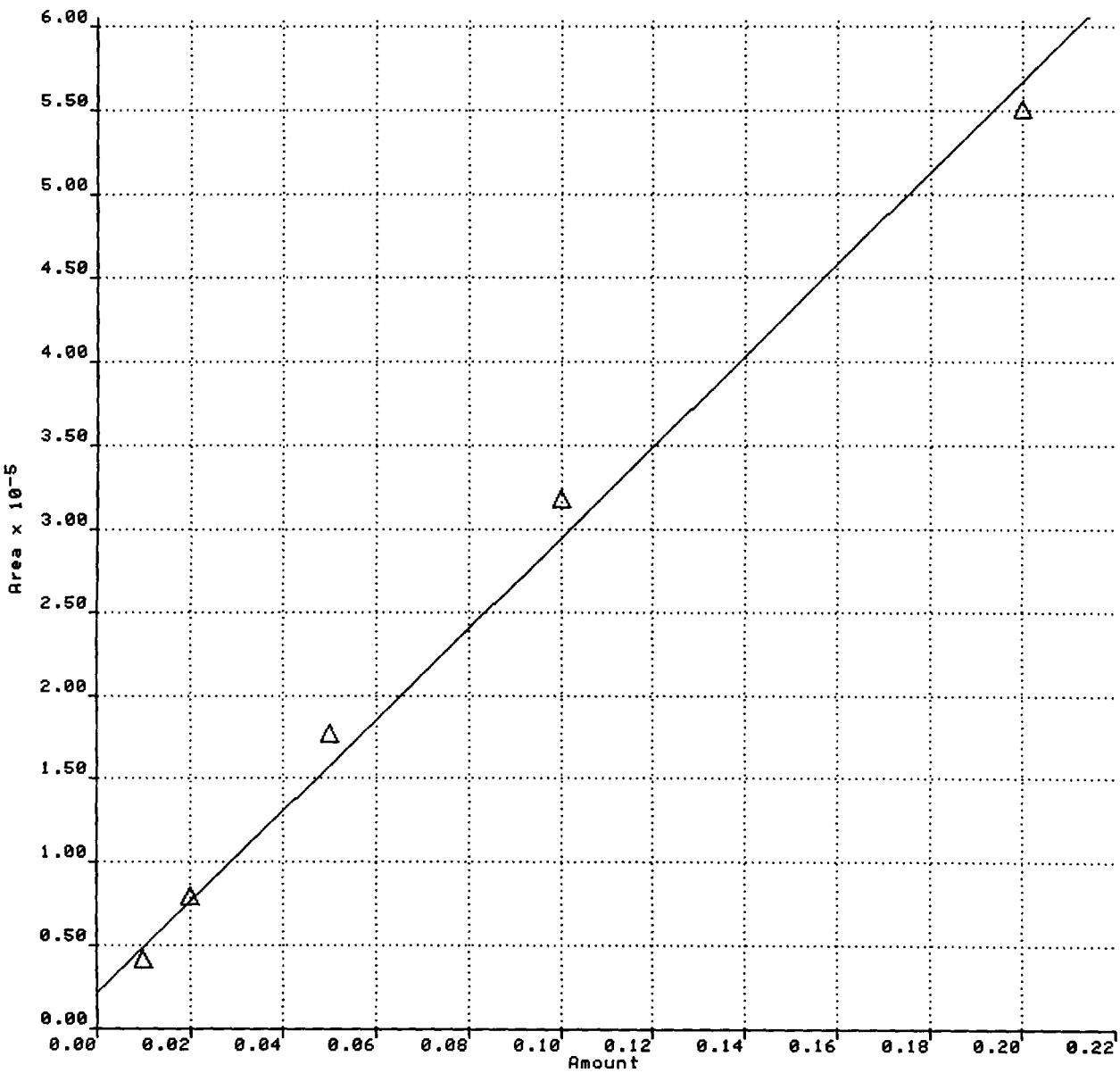
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.26		21635	BB	1
	12.14		25342	BB	2
	12.53		29915	BV	3
	12.76		124225	VB	4
	13.55		18276	BE	5
	14.34		152043	BV	6
	14.42		89451	VV	7
	14.74		23279	VV	8
	15.08		142533	VE	9
	15.54		4342	EV	10
	15.69		43866	VV	11
	15.80		25630	VV	12
	16.07		414238	VV	13
AROCLOR-1242	16.45	0.973	177333	VV	14
AROCLOR-1242-2	16.74	0.979	122317	VV	15
	16.95		37399	VV	16
	17.32		124468	VV	17
	17.50		96919	VV	18
	17.64		83394	VE	19
	18.12		140361	VV	20
	18.27		99630	VV	21
AROCLOR-1242-3	18.60	0.982	155442	VV	22
	18.92		45218	VE	23
	19.06		8325	EV	24
	19.28		9333	VV	25
	19.42		77886	VV	26
	19.54		148413	VV	27
AROCLOR-1242-4	19.70	0.974	169101	VE	28
	19.97		22862	EV	29
AROCLOR-1242-5	20.34	0.978	145583	VV	30
	20.52		63191	VV	31
	20.73		28752	VE	32
	21.15		6184	VV	33
	21.34		24839	VV	34
	21.53		36599	VV	35
	21.70		20580	VV	36
	21.89		62055	VV	37
	22.33		18763	VE	38
	22.62		4693	VV	39
	22.80		43898	VE	40
	23.24		4115	EV	41
	23.57		5338	BV	42
	23.78		32861	VE	43
	24.59		10279	VV	44

Average result...0.977 UG/ML

Run Number..... 6 End of Report.

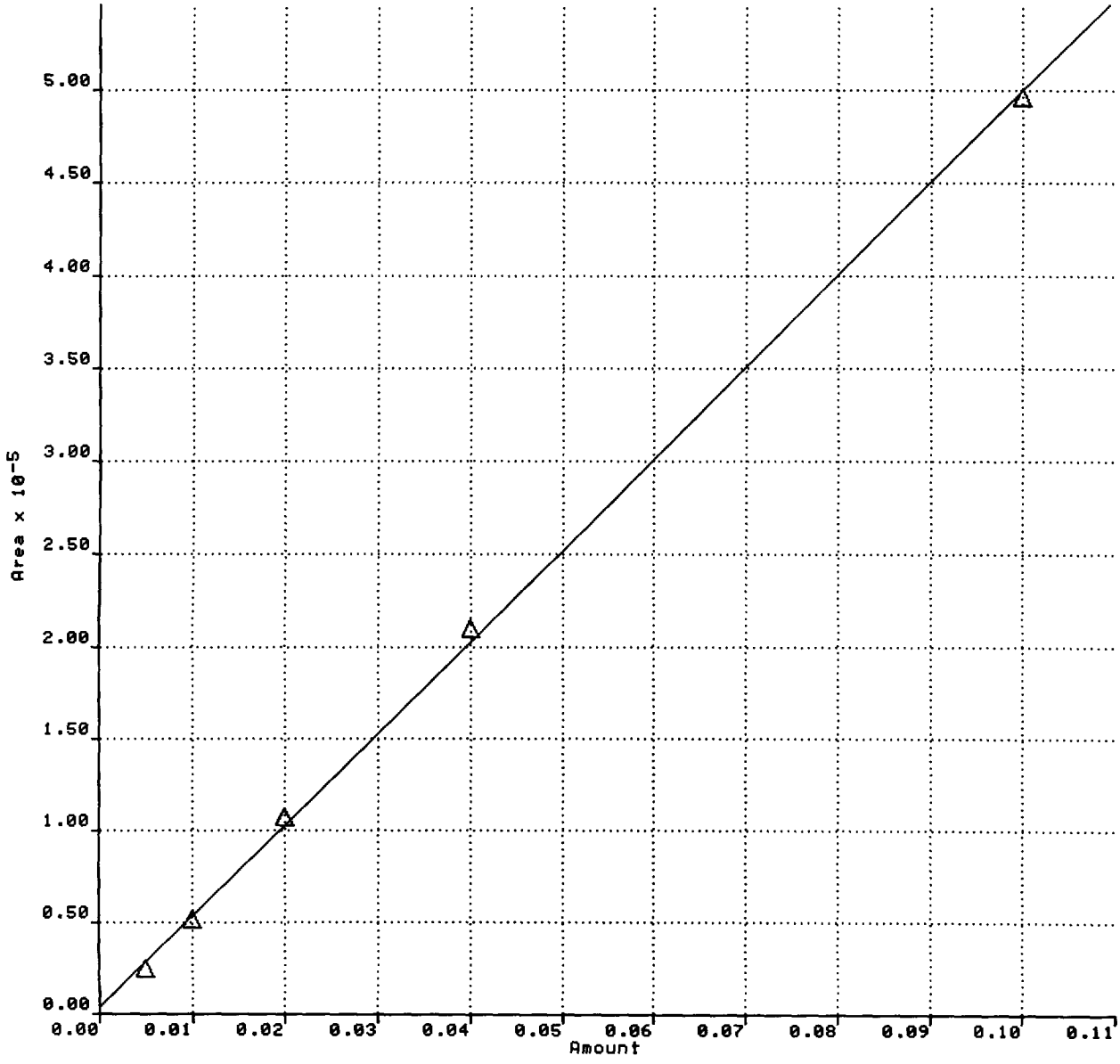
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: 4C3N
Date: 5-MAY-1997 07:36:29.19
Linear fit, Origin Treament....Use.
K0: 2.1848E+04 K1: 2.7250E+06
Coeff. of determination: 0.9929

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	41647	1.0000E-02	
0.20 AR1260	79382	2.0000E-02	
0.40 AR1260	177284	5.0000E-02	
0.50 AR1260	317957	0.10000	
1.0 AR1260	550312	0.20000	



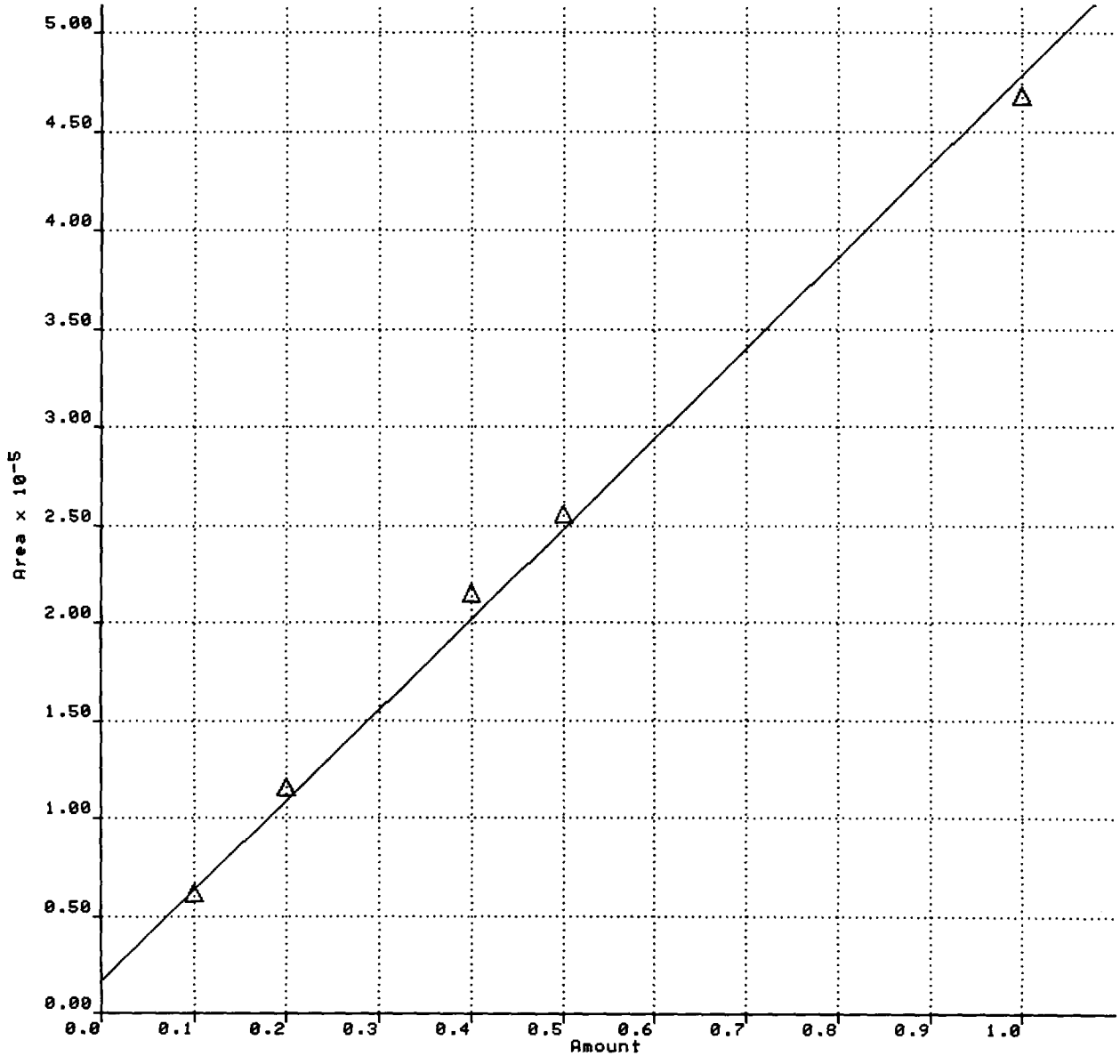
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: TCMX
Date: 5-MAY-1997 07:36:29.52
Linear fit, Origin Treament....Use.
K0: 3.5251E+03 K1: 4.9634E+06
Coeff. of determination: 0.9994

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	25357	5.0000E-03	
0.20 AR1260	51467	1.0000E-02	
0.40 AR1260	107187	2.0000E-02	
0.50 AR1260	209346	4.0000E-02	
1.0 AR1260	496396	0.10000	



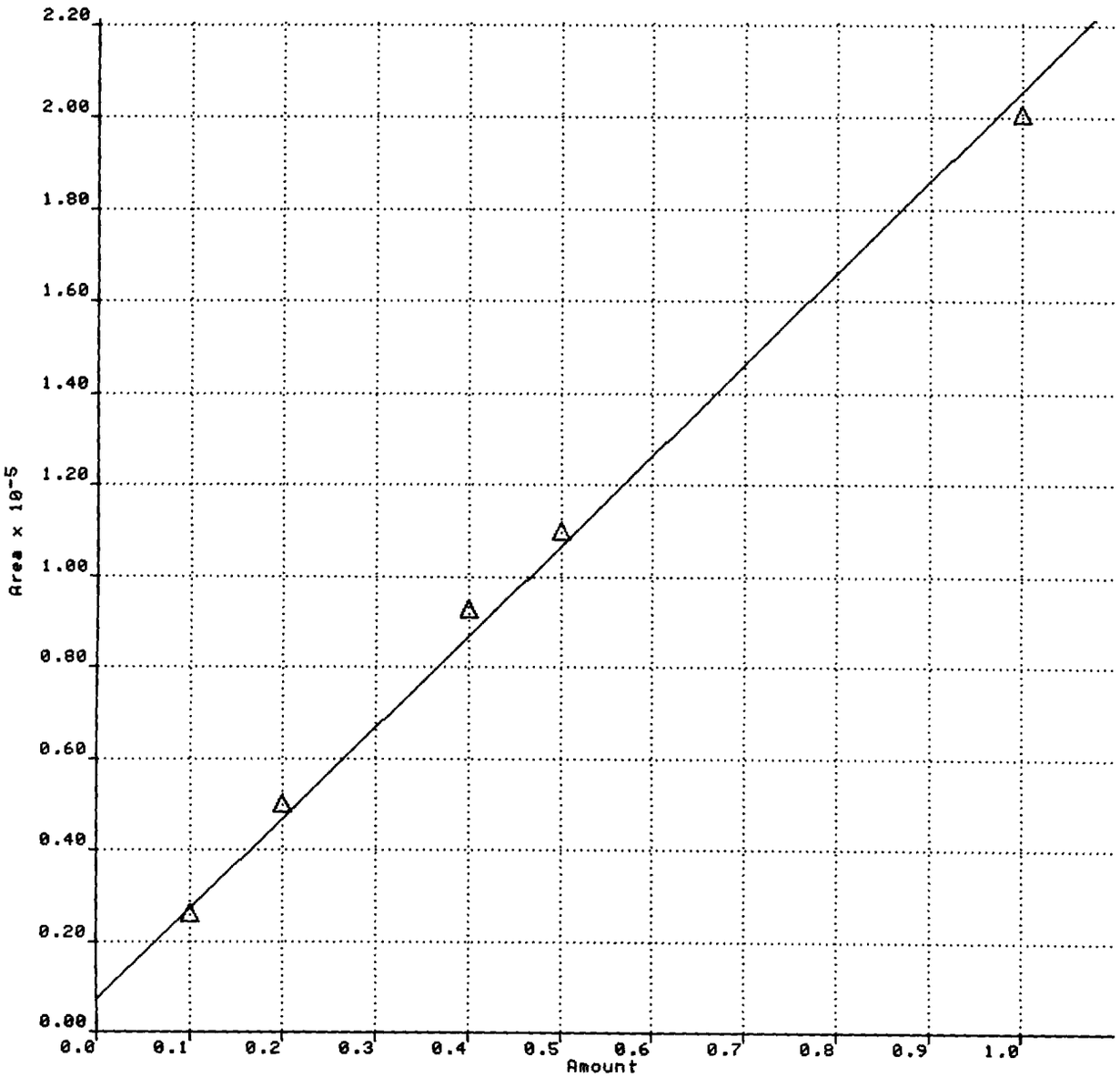
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1016
Date: 5-MAY-1997 07:36:29.82
Linear fit, Origin Treament....Use.
K0: 1.6468E+04 K1: 4.6191E+05
Coeff. of determination: 0.9961

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	61551	0.10000	
0.20 AR1260	115412	0.20000	
0.40 AR1260	214933	0.40000	
0.50 AR1260	255410	0.50000	
1.0 AR1260	467697	1.0000	



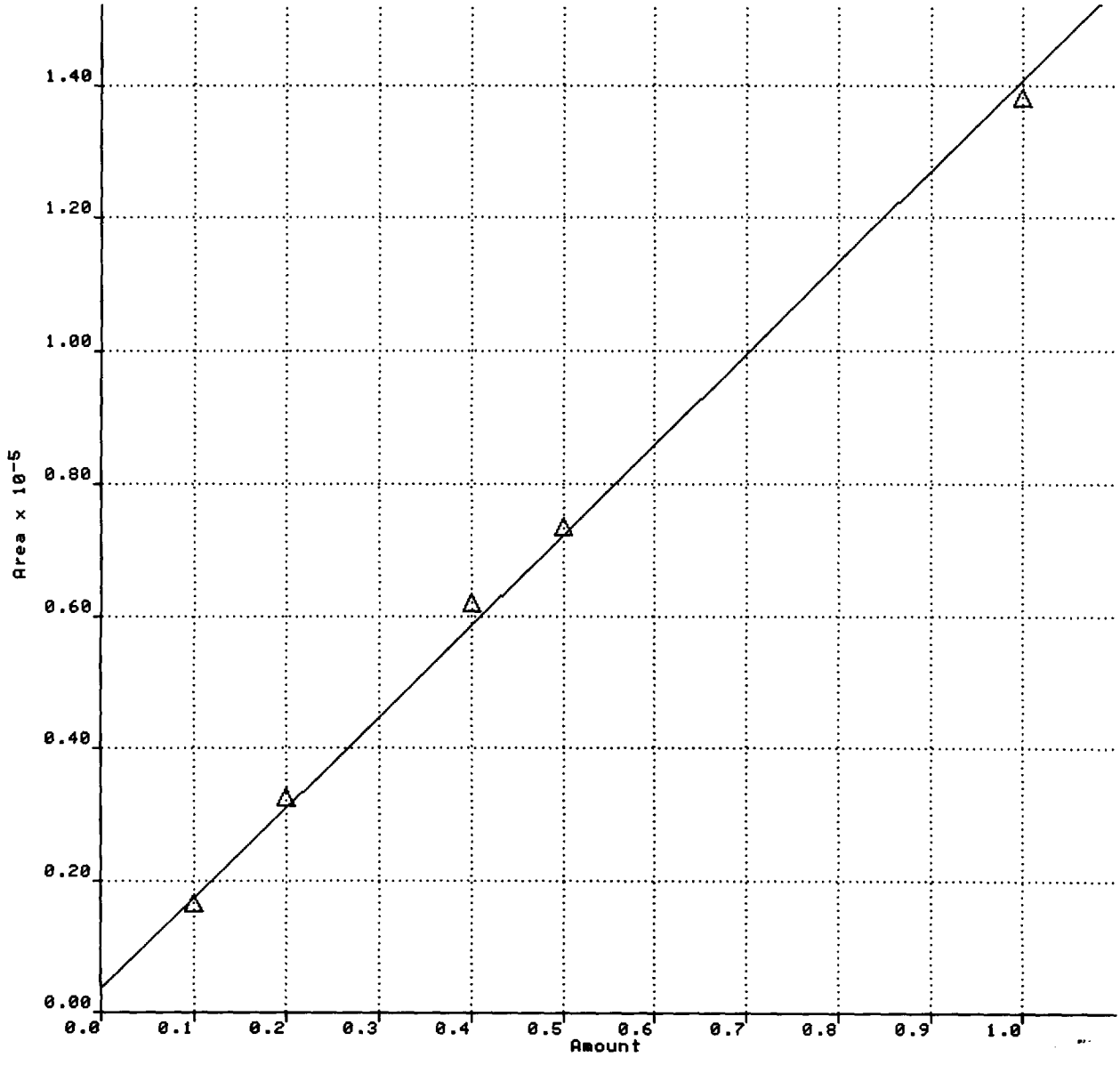
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1016-2
Date: 5-MAY-1997 07:36:30.24
Linear fit, Origin Treament....Use.
K0: 7.2011E+03 K1: 1.9849E+05
Coeff. of determination: 0.9957

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	26204	0.10000	
0.20 AR1260	49945	0.20000	
0.40 AR1260	92830	0.40000	
0.50 AR1260	110018	0.50000	
1.0 AR1260	200887	1.0000	



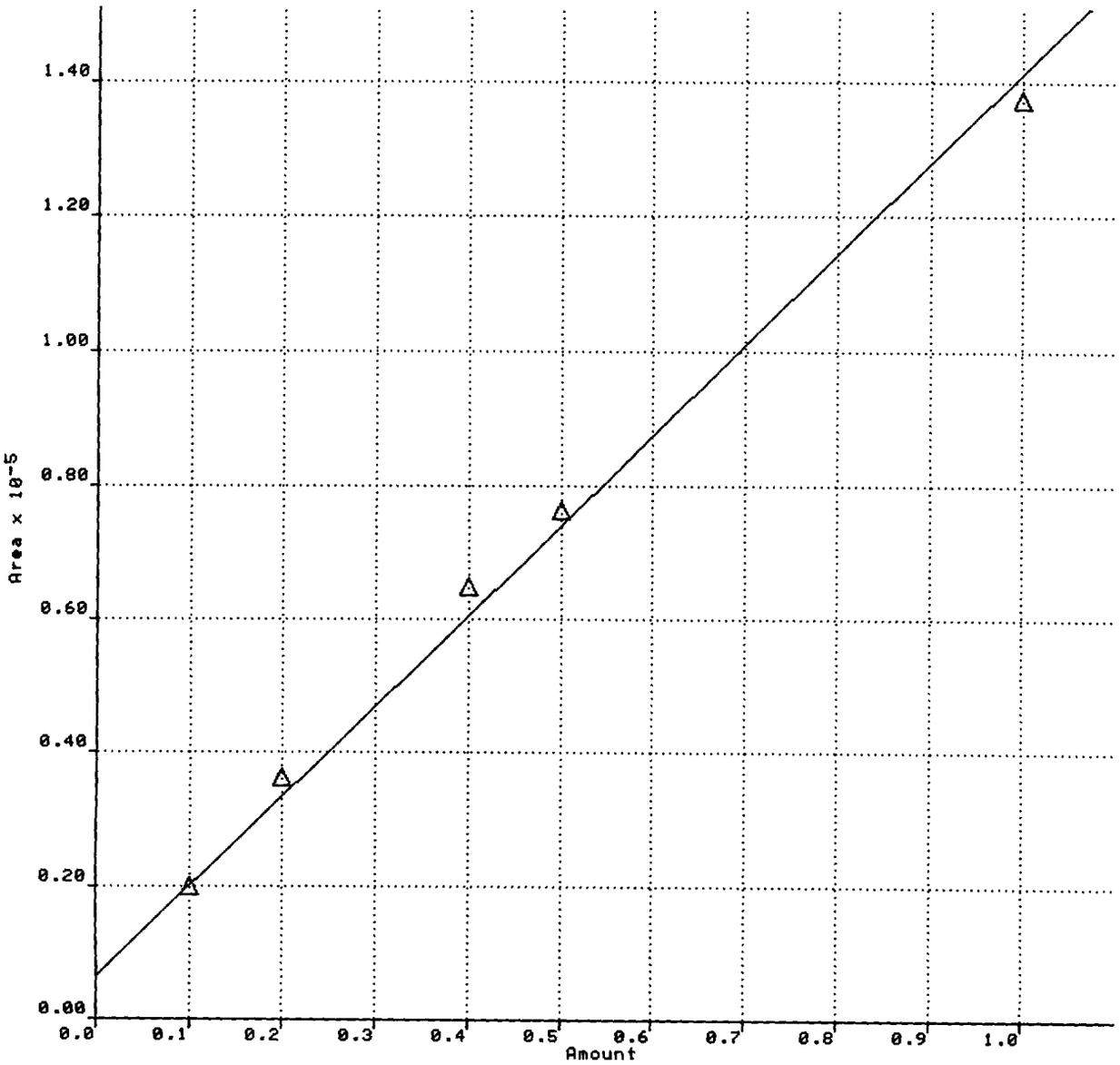
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1016-3
Date: 5-MAY-1997 07:36:30.65
Linear fit, Origin Treament....Use.
K0: 3.5769E+03 K1: 1.3705E+05
Coeff. of determination: 0.9976

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	16719	0.10000	
0.20 AR1260	32561	0.20000	
0.40 AR1260	61859	0.40000	
0.50 AR1260	73589	0.50000	
1.0 AR1260	138233	1.0000	



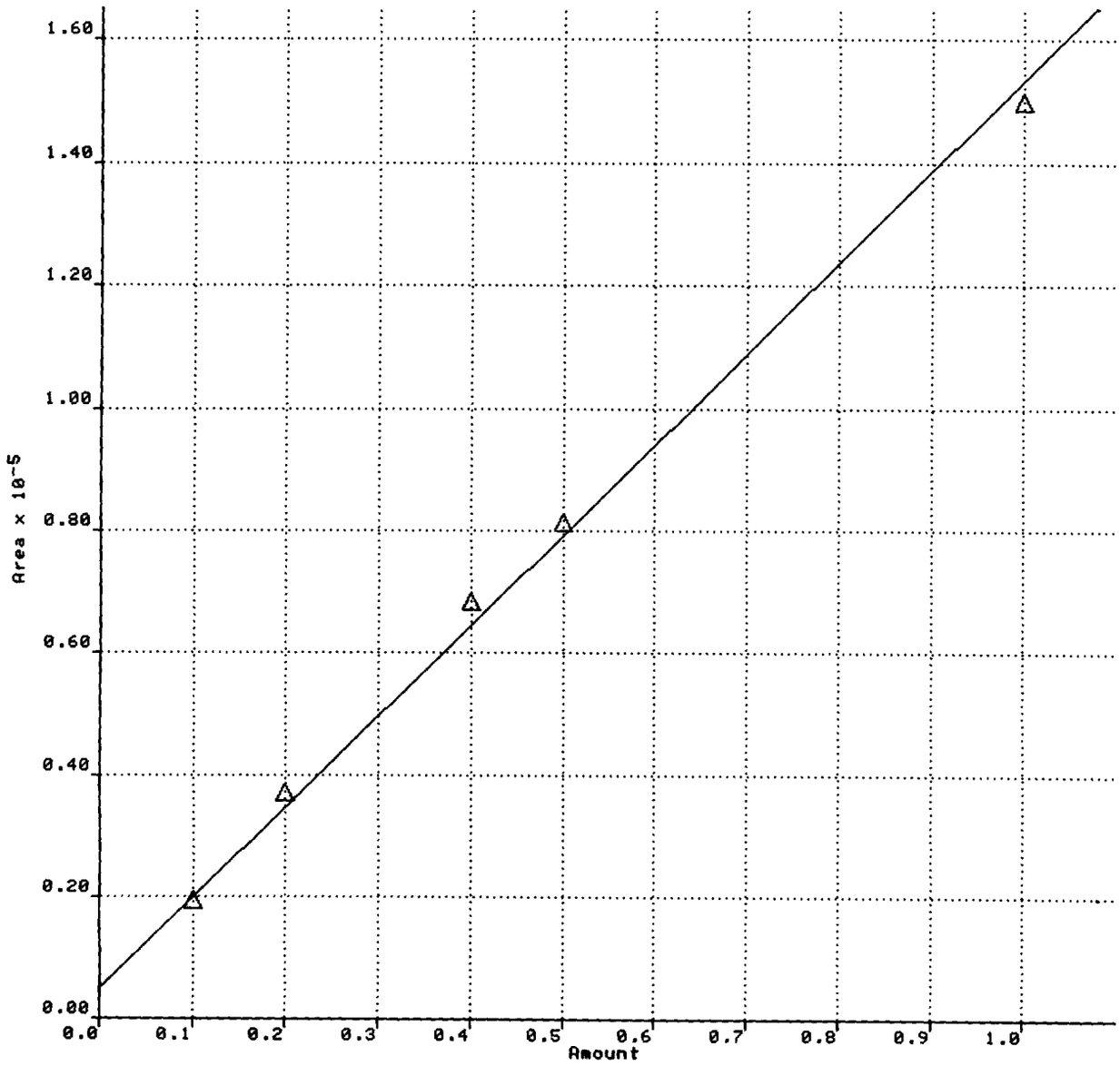
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1016-4
Date: 5-MAY-1997 07:36:31.04
Linear fit, Origin Treament....Use.
K0: 6.4357E+03 K1: 1.3487E+05
Coeff. of determination: 0.9942

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	19885	0.10000	
0.20 AR1260	36392	0.20000	
0.40 AR1260	64982	0.40000	
0.50 AR1260	76519	0.50000	
1.0 AR1260	137548	1.0000	



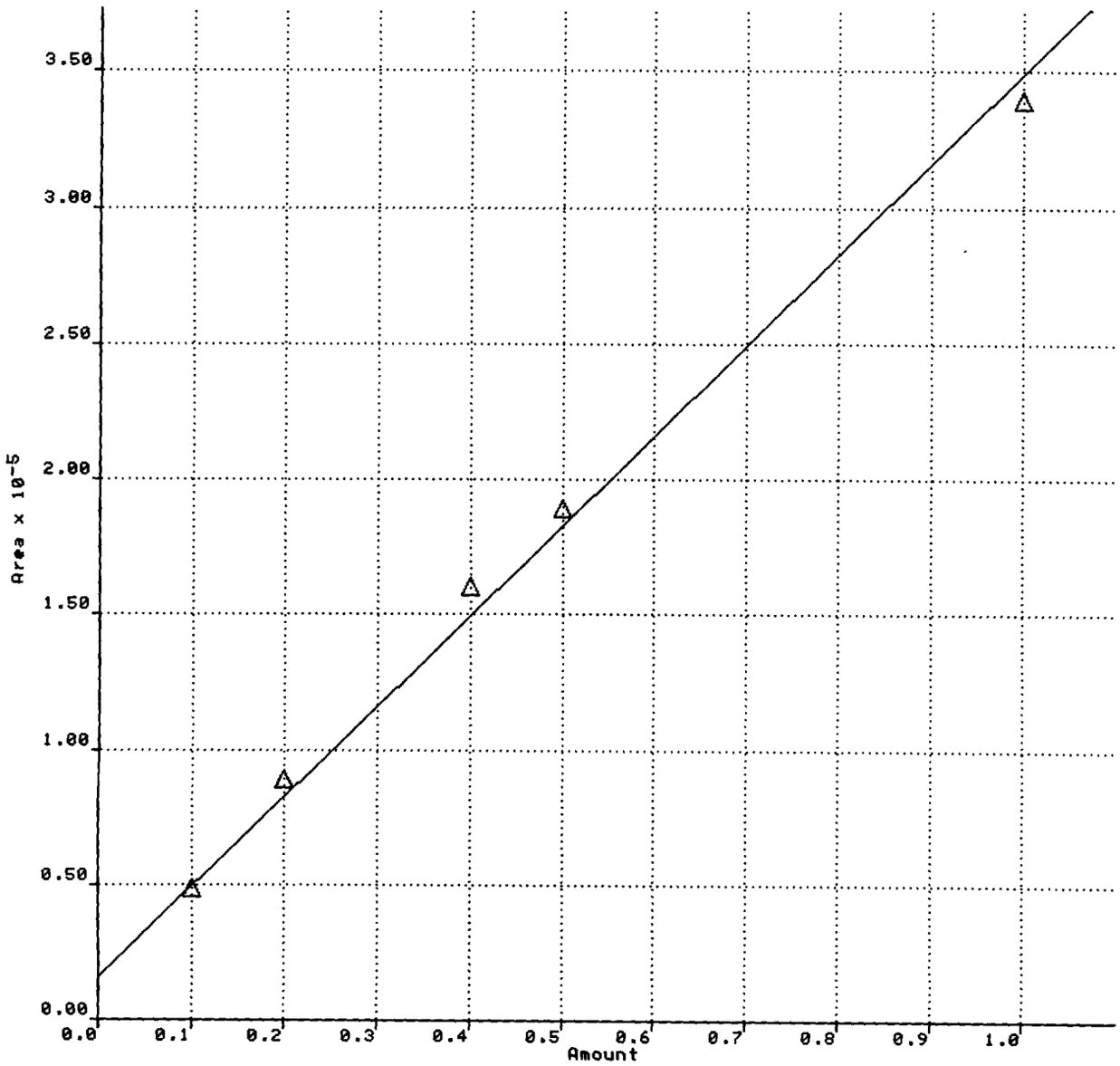
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1016-5
Date: 5-MAY-1997 07:36:31.50
Linear fit, Origin Treament....Use.
K0: 5.1086E+03 K1: 1.4806E+05
Coeff. of determination: 0.9964

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	19424	0.10000	
0.20 AR1260	37036	0.20000	
0.40 AR1260	68538	0.40000	
0.50 AR1260	81484	0.50000	
1.0 AR1260	149896	1.0000	



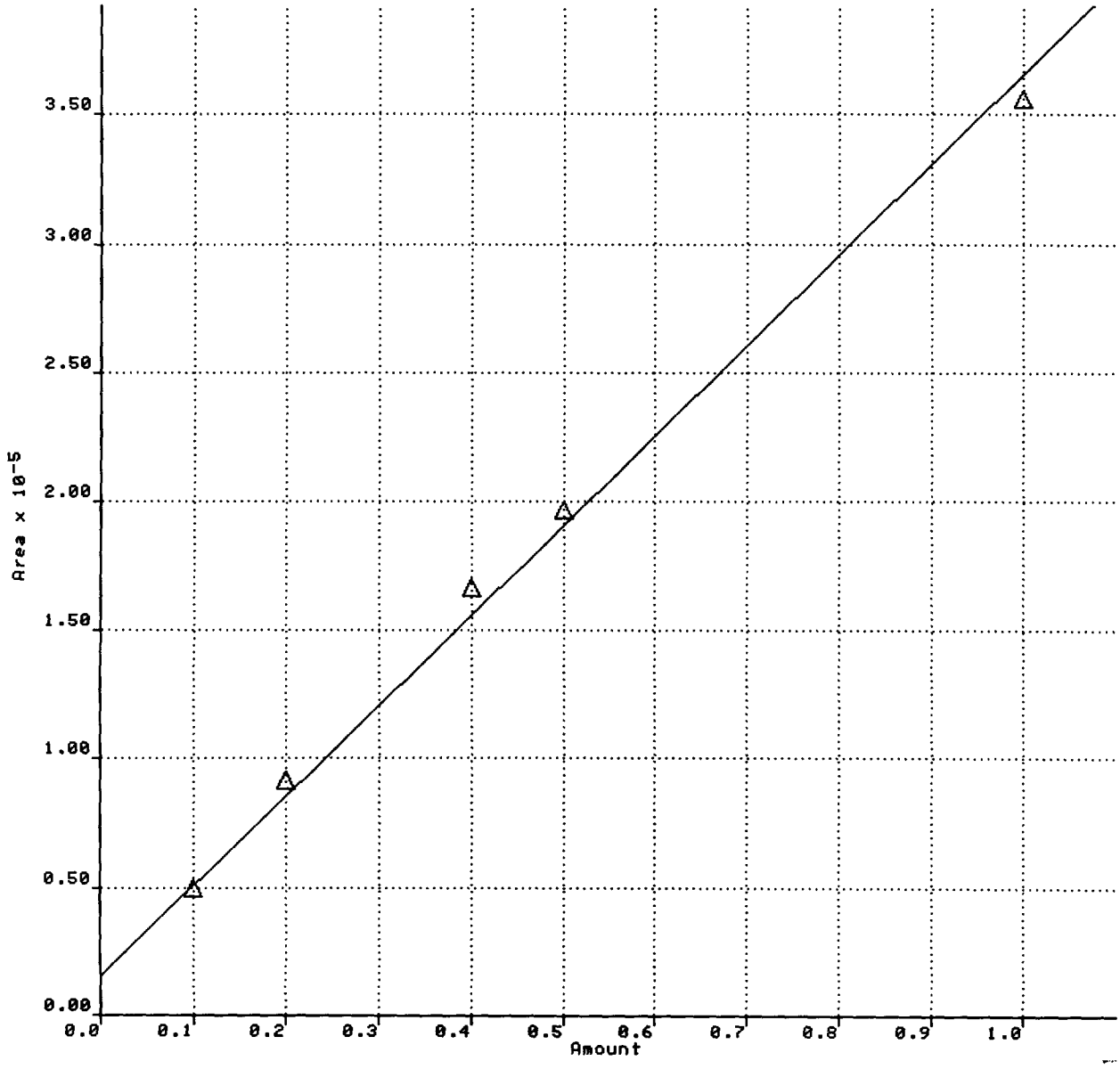
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1260
Date: 5-MAY-1997 07:36:31.99
Linear fit, Origin Treament....Use.
K0: 1.5481E+04 K1: 3.3342E+05
Coeff. of determination: 0.9940

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	48339	0.10000	
0.20 AR1260	88756	0.20000	
0.40 AR1260	160576	0.40000	
0.50 AR1260	189404	0.50000	
1.0 AR1260	339334	1.0000	



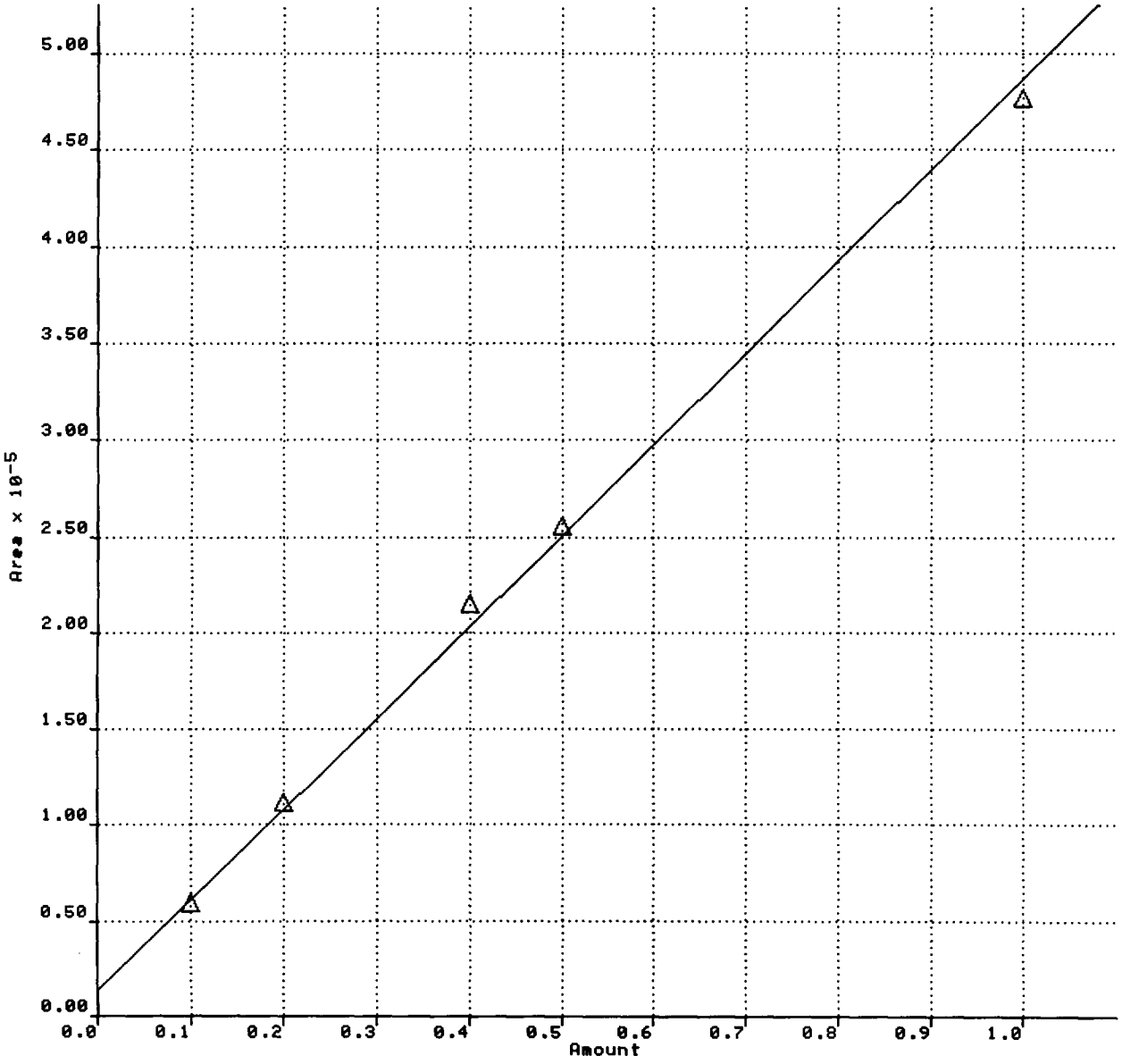
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1260-2
Date: 5-MAY-1997 07:36:32.41
Linear fit, Origin Treament....Use.
K0: 1.5096E+04 K1: 3.5038E+05
Coeff. of determination: 0.9951

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	50030	0.10000	
0.20 AR1260	91481	0.20000	
0.40 AR1260	166728	0.40000	
0.50 AR1260	196794	0.50000	
1.0 AR1260	356380	1.0000	



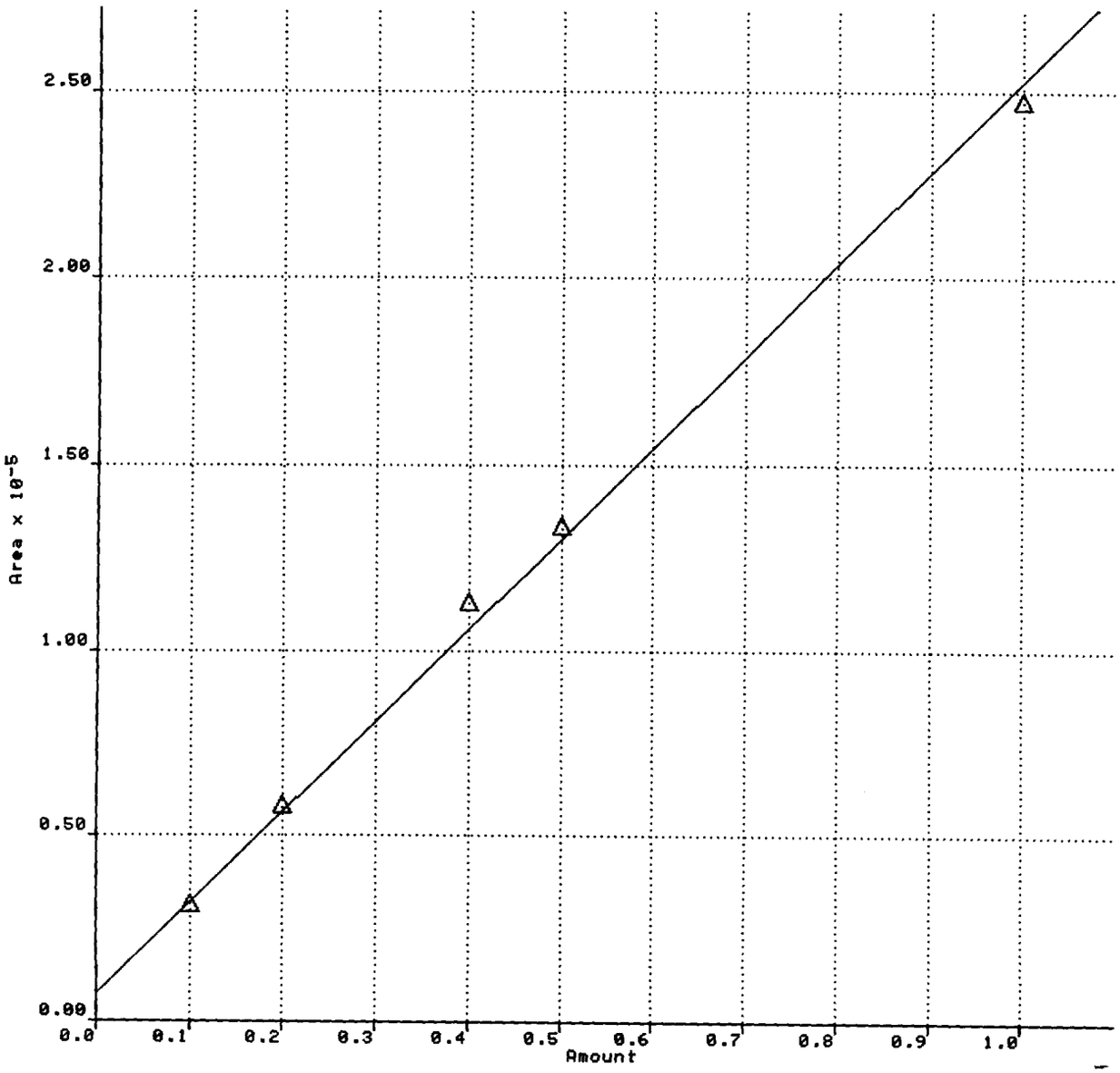
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1260-3
Date: 5-MAY-1997 07:36:32.87
Linear fit, Origin Treament....Use.
K0: 1.3291E+04 K1: 4.7303E+05
Coeff. of determination: 0.9974

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	59700	0.10000	
0.20 AR1260	112251	0.20000	
0.40 AR1260	215029	0.40000	
0.50 AR1260	256002	0.50000	
1.0 AR1260	477433	1.0000	



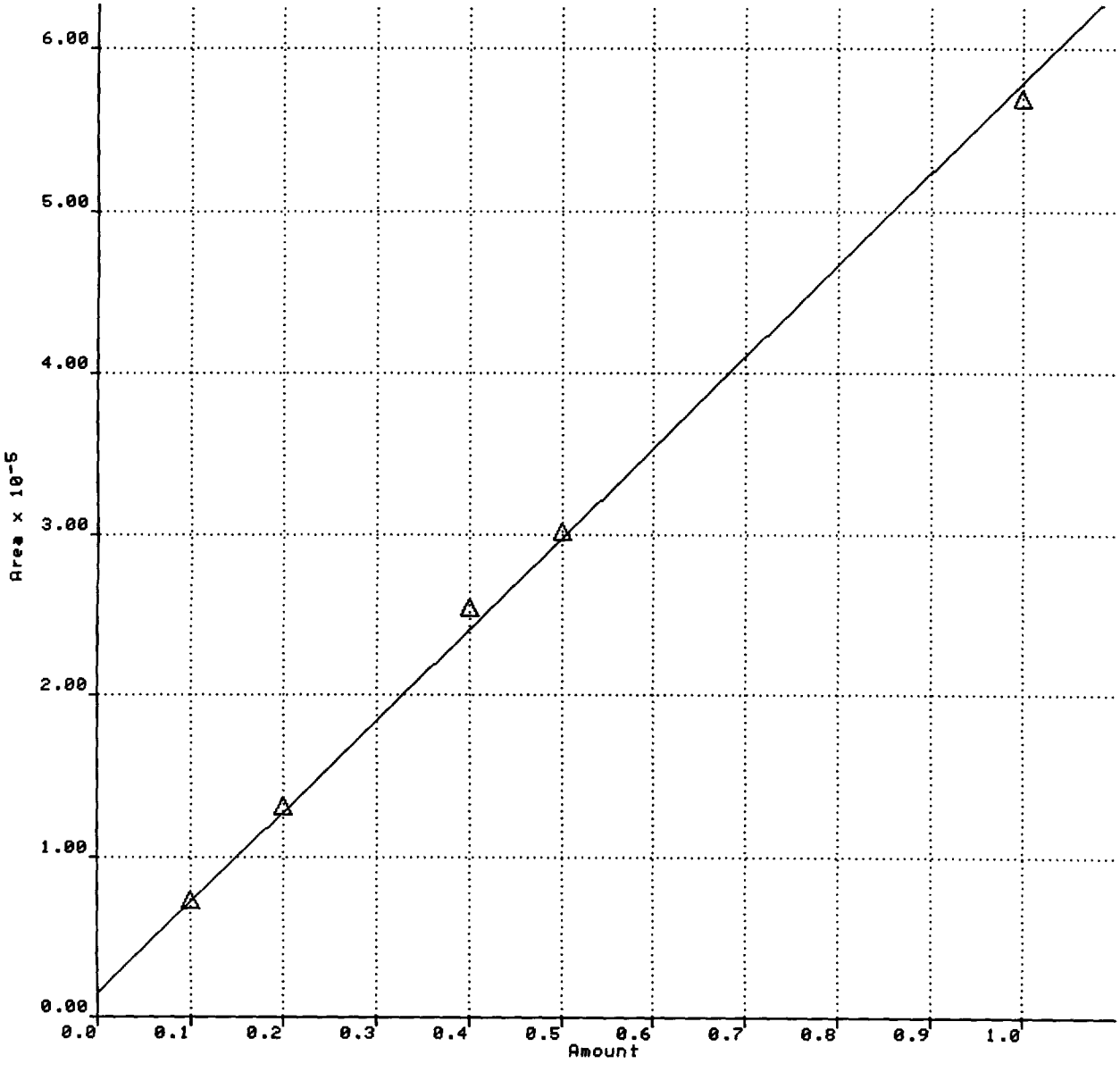
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1260-4
Date: 5-MAY-1997 07:36:33.35
Linear fit, Origin Treament....Use.
K0: 7.5456E+03 K1: 2.4520E+05
Coeff. of determination: 0.9964

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	31560	0.10000	
0.20 AR1260	58343	0.20000	
0.40 AR1260	113384	0.40000	
0.50 AR1260	134030	0.50000	
1.0 AR1260	247404	1.0000	



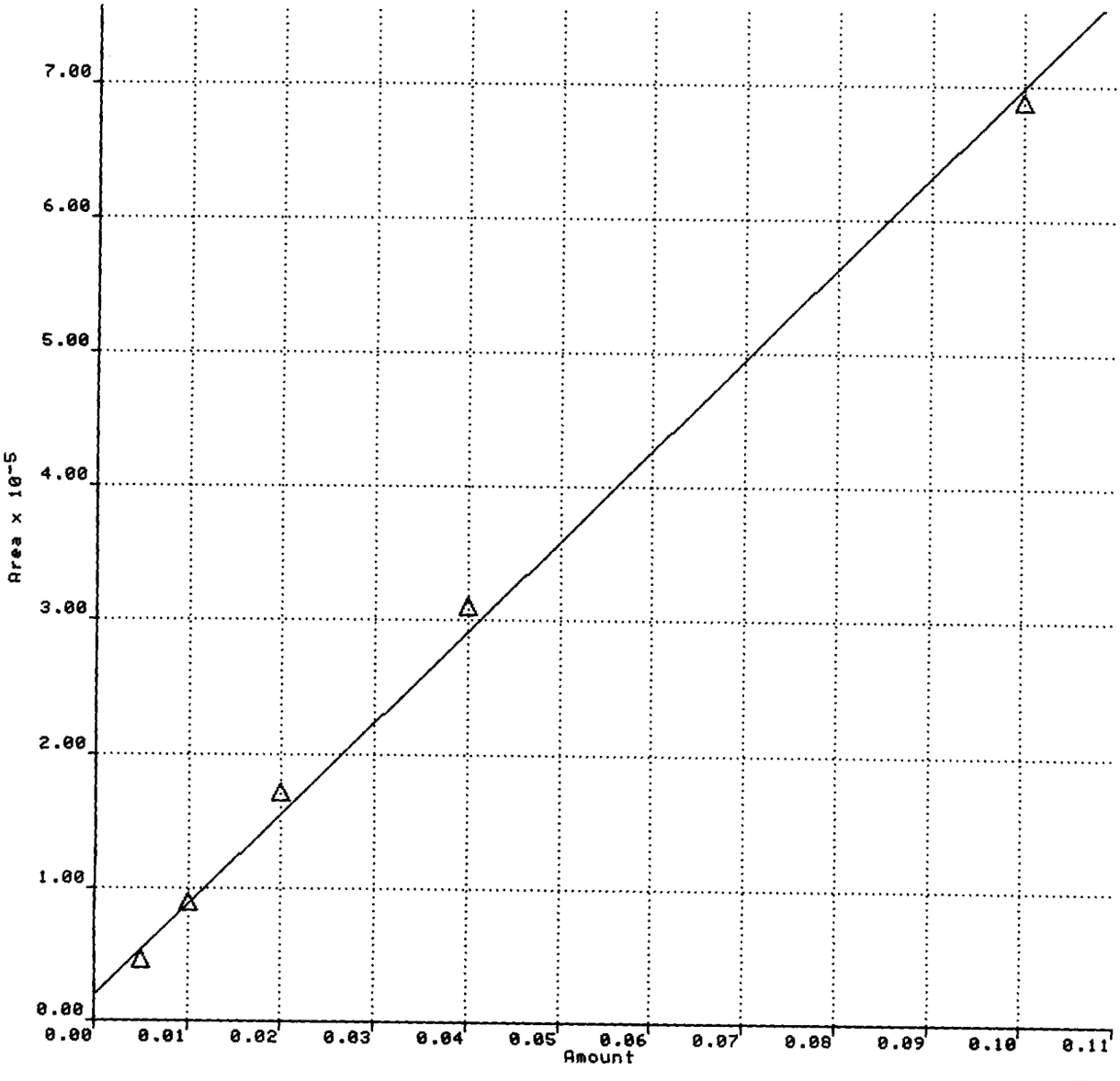
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: AROCLOR-1260-5
Date: 5-MAY-1997 07:36:33.78
Linear fit, Origin Treament....Use.
K0: 1.5276E+04 K1: 5.6391E+05
Coeff. of determination: 0.9980

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	72769	0.10000	
0.20 AR1260	132073	0.20000	
0.40 AR1260	254736	0.40000	
0.50 AR1260	302698	0.50000	
1.0 AR1260	569981	1.0000	



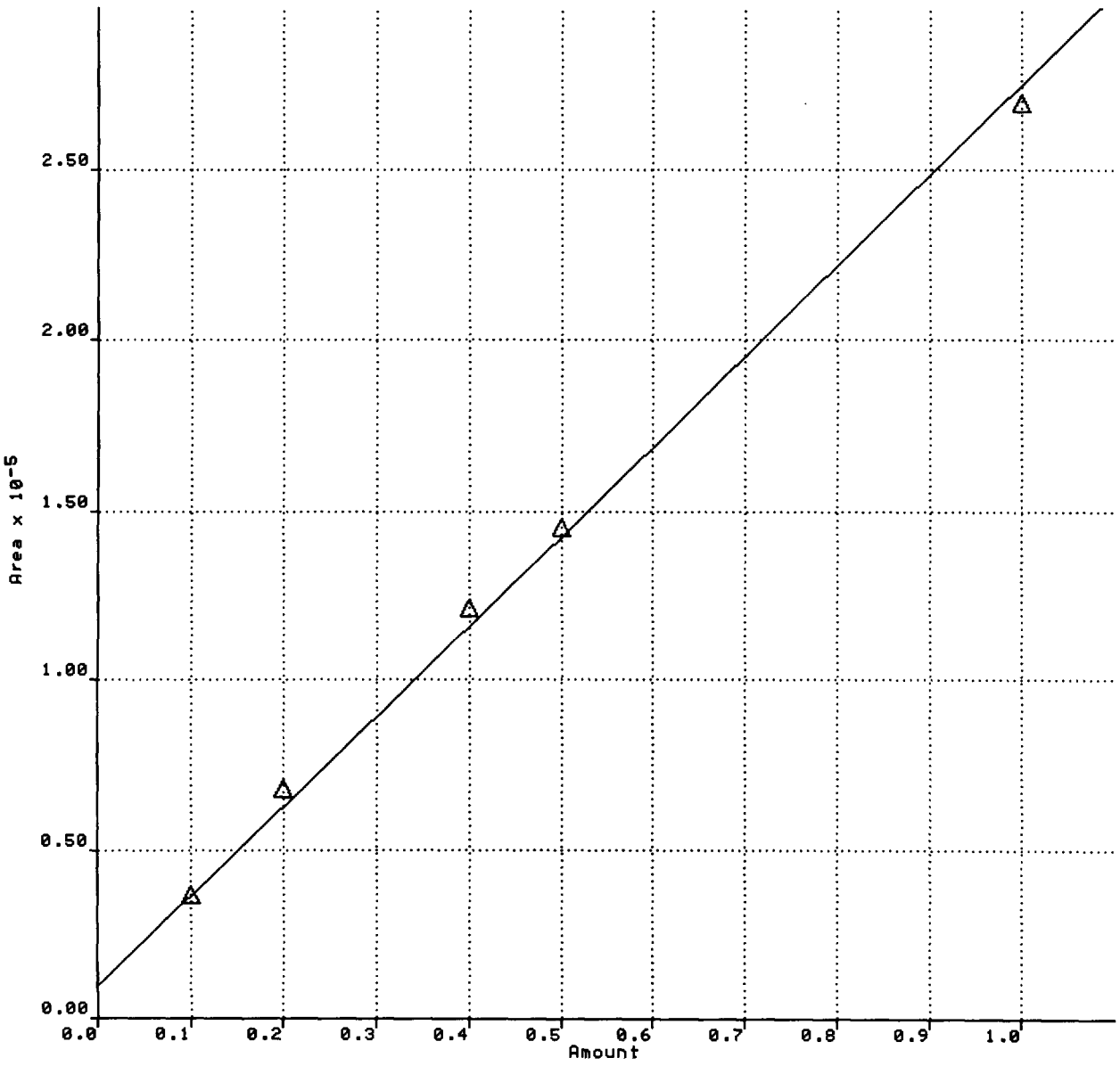
Method: DKB100:[LEWANDOWSKI]5_AR1660_0502.MET;16
Component: DCB
Date: 5-MAY-1997 07:36:34.27
Linear fit, Origin Treament....Use.
K0: 1.9357E+04 K1: 6.7944E+06
Coeff. of determination: 0.9969

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	45431	5.0000E-03	
0.20 AR1260	88905	1.0000E-02	
0.40 AR1260	171892	2.0000E-02	
0.50 AR1260	311298	4.0000E-02	
1.0 AR1260	687634	0.10000	



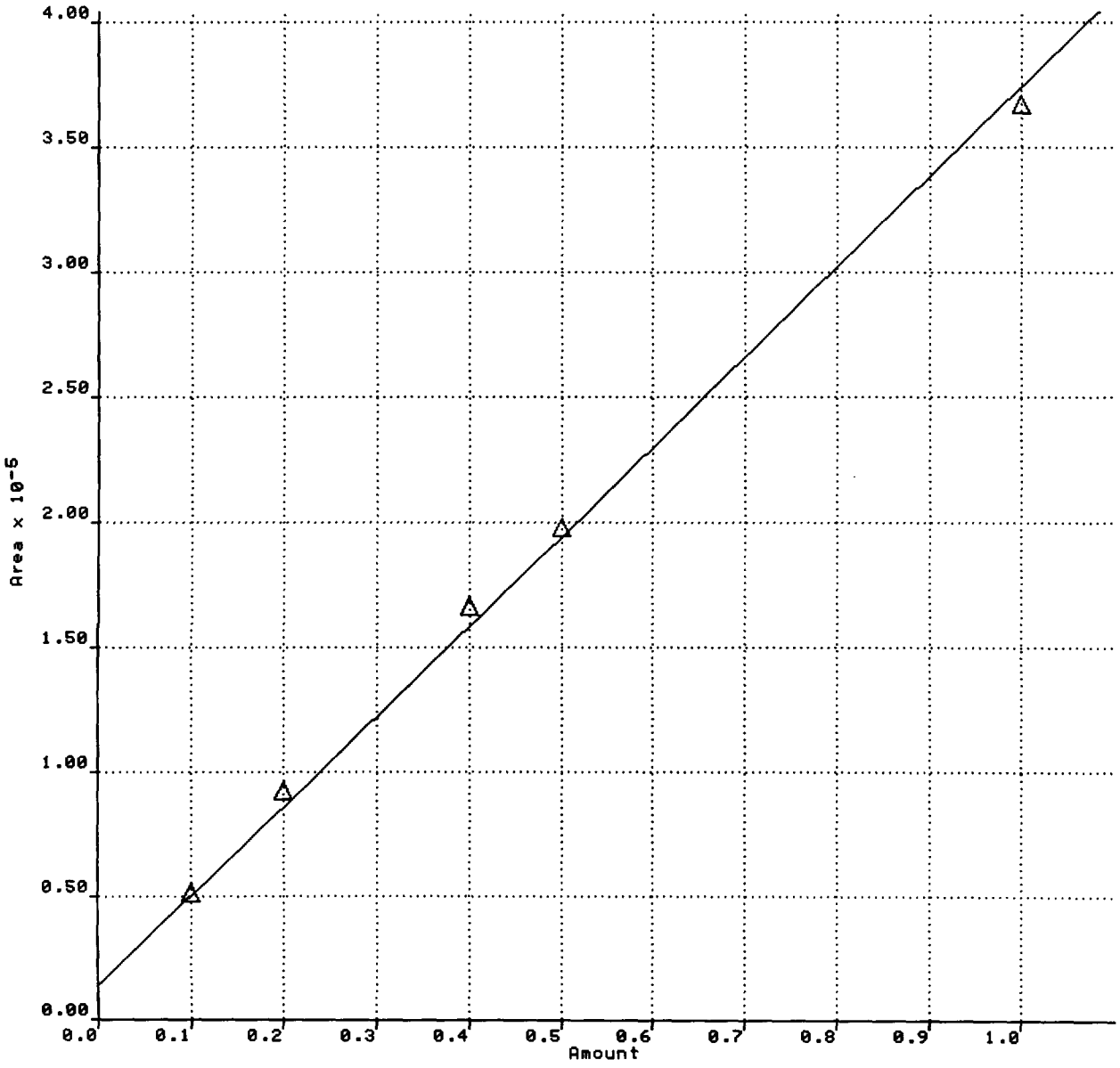
Method: DKB100:[LEWANDOWSKI]5_AR1254_0502.MET;7
Component: AROCLOR-1254
Date: 5-MAY-1997 07:16:47.36
Linear fit, Origin Treament....Use.
K0: 9.6048E+03 K1: 2.6489E+05
Coeff. of determination: 0.9973

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	36668	0.10000	
0.2 AR1254	67719	0.20000	
0.4 AR1254	121266	0.40000	
0.5 AR1254	145165	0.50000	
1.0 AR1254	269574	1.0000	



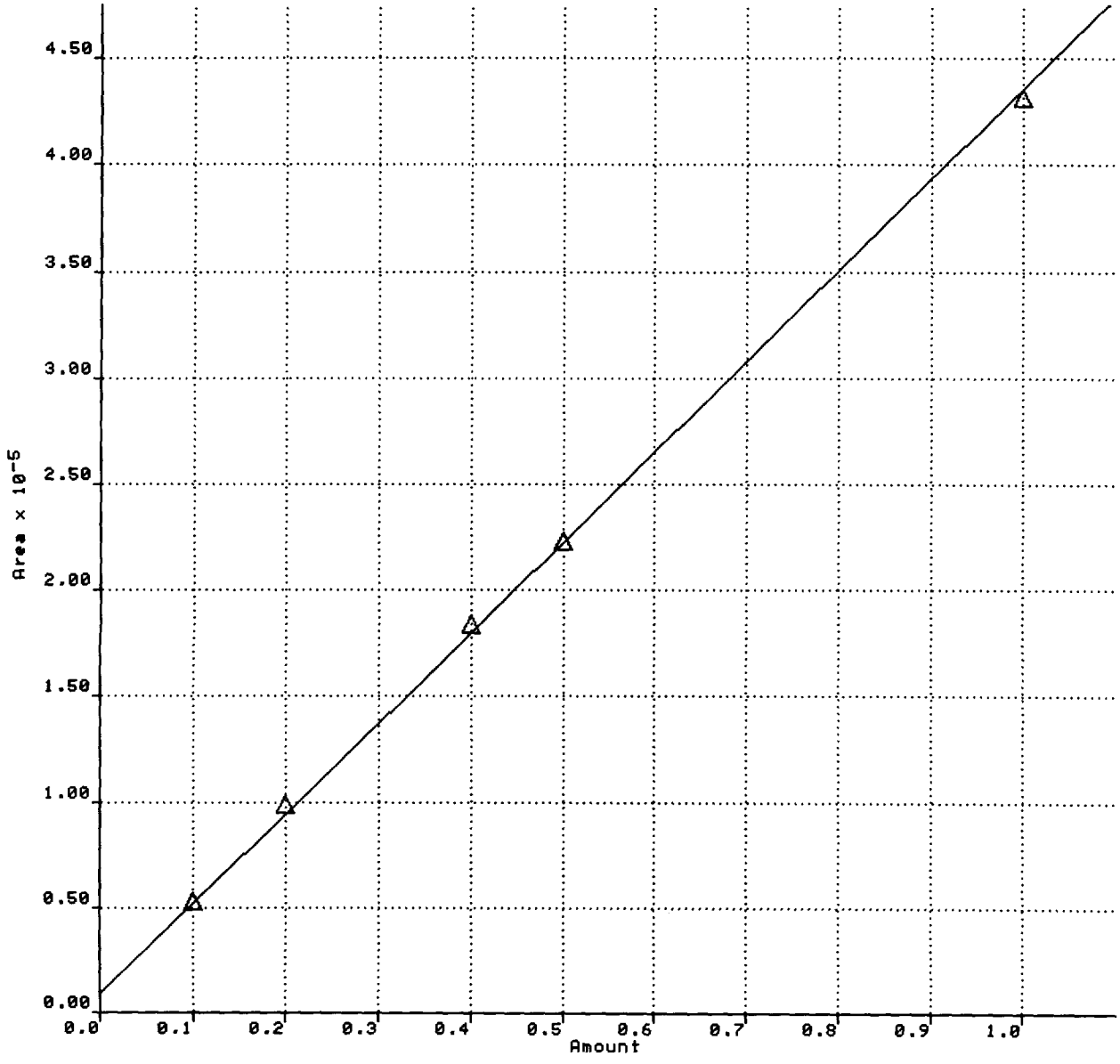
Method: DKB100:[LEWANDOWSKI]5_AR1254_0502.MET;7
Component: AROCLOR-1254-2
Date: 5-MAY-1997 07:16:47.65
Linear fit, Origin Treament....Use.
K0: 1.3722E+04 K1: 3.6045E+05
Coeff. of determination: 0.9972

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	51248	0.10000	
0.2 AR1254	92517	0.20000	
0.4 AR1254	165839	0.40000	
0.5 AR1254	198466	0.50000	
1.0 AR1254	367244	1.0000	



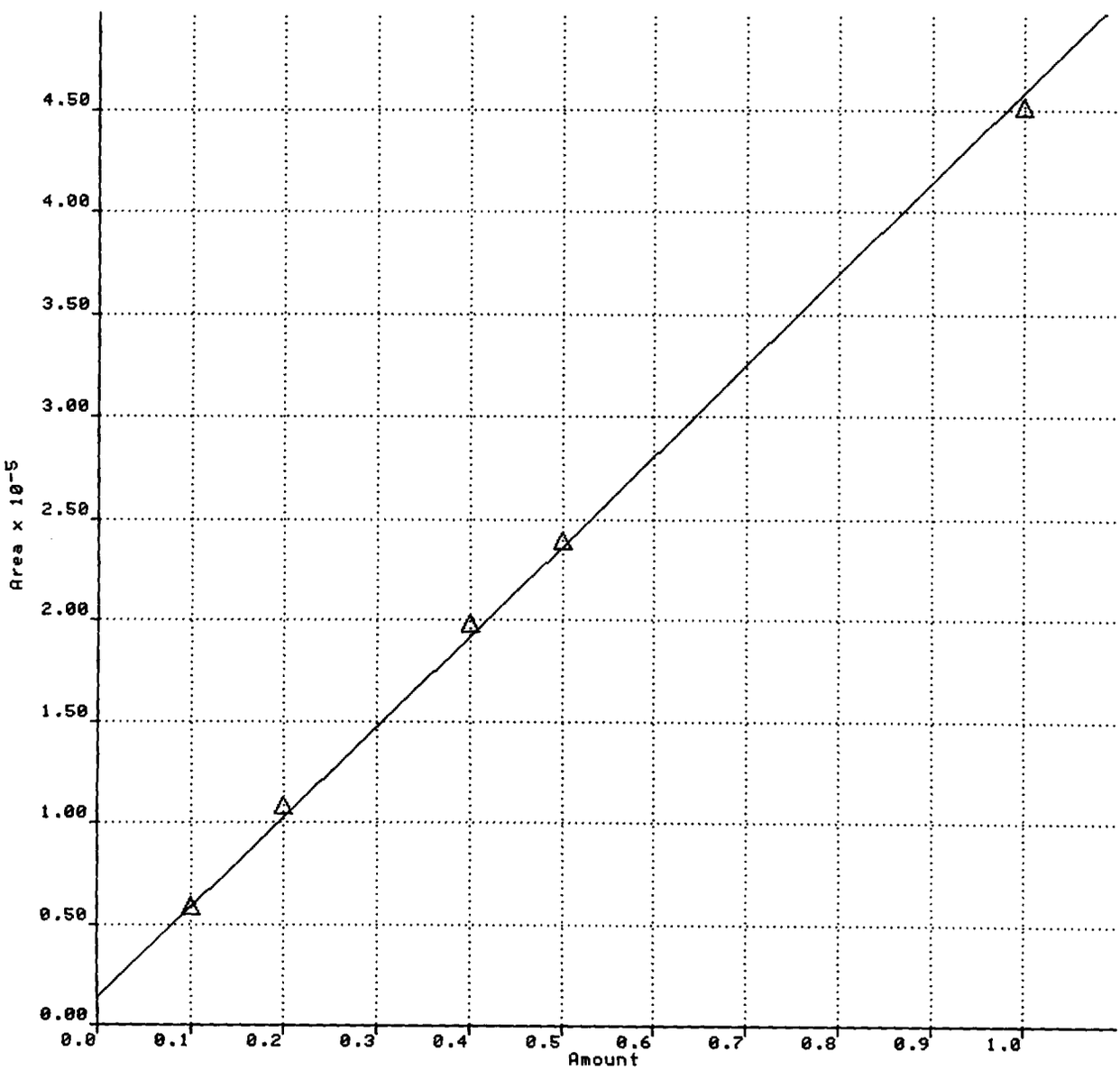
Method: DKB100:[LEWANDOWSKI]5_AR1254_0502.MET;7
Component: AROCLOR-1254-3
Date: 5-MAY-1997 07:16:47.92
Linear fit, Origin Treament....Use.
K0: 8.5766E+03 K1: 4.2691E+05
Coeff. of determination: 0.9993

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	52704	0.10000	
0.2 AR1254	98828	0.20000	
0.4 AR1254	184055	0.40000	
0.5 AR1254	223156	0.50000	
1.0 AR1254	431926	1.0000	



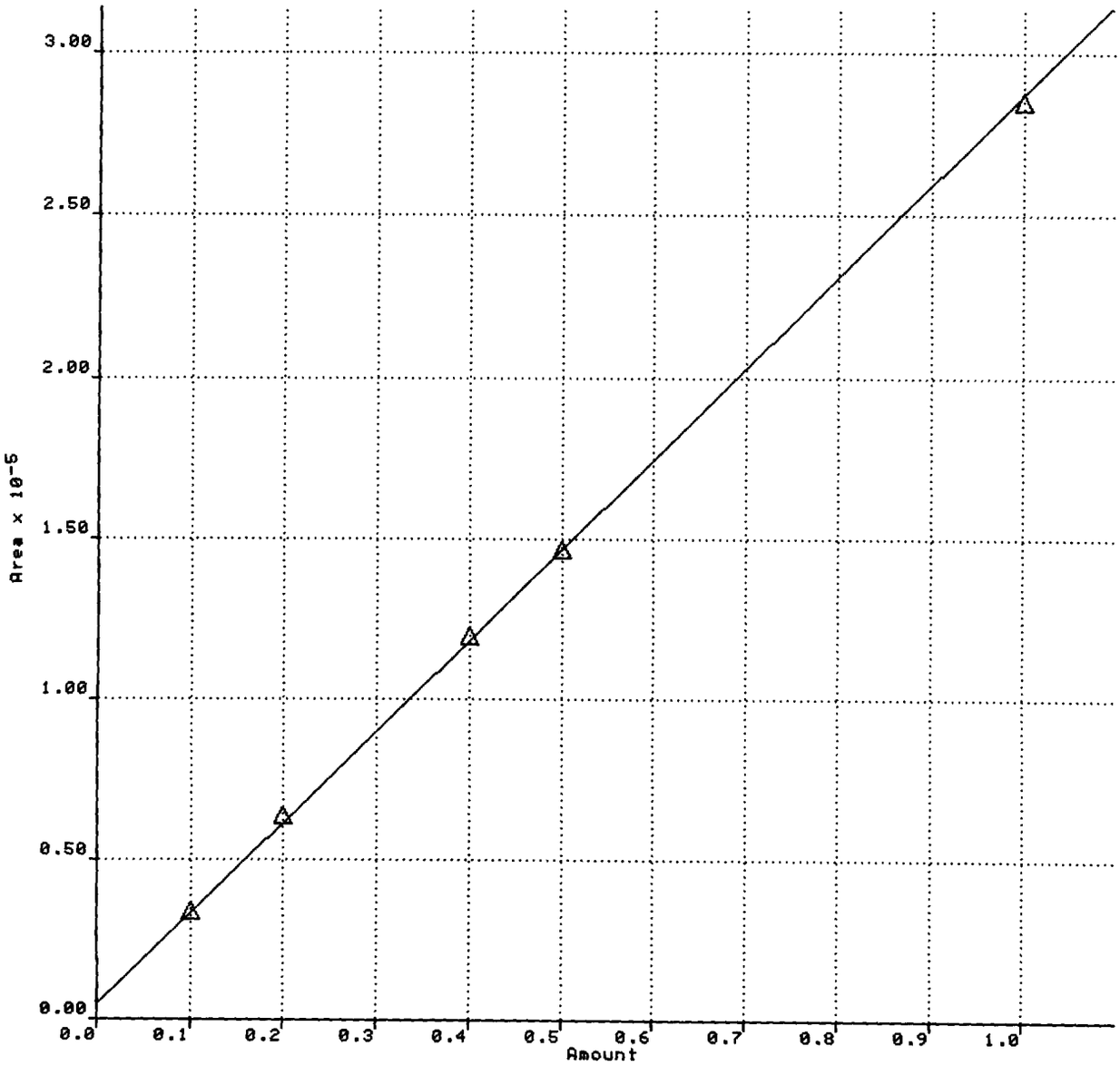
Method: DKB100:[LEWANDOWSKI]5_AR1254_0502.MET;7
Component: AROCLOR-1254-4
Date: 5-MAY-1997 07:16:48.29
Linear fit, Origin Treament....Use.
K0: 1.3065E+04 K1: 4.4505E+05
Coeff. of determination: 0.9984

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	58980	0.10000	
0.2 AR1254	108840	0.20000	
0.4 AR1254	198298	0.40000	
0.5 AR1254	239694	0.50000	
1.0 AR1254	451677	1.0000	



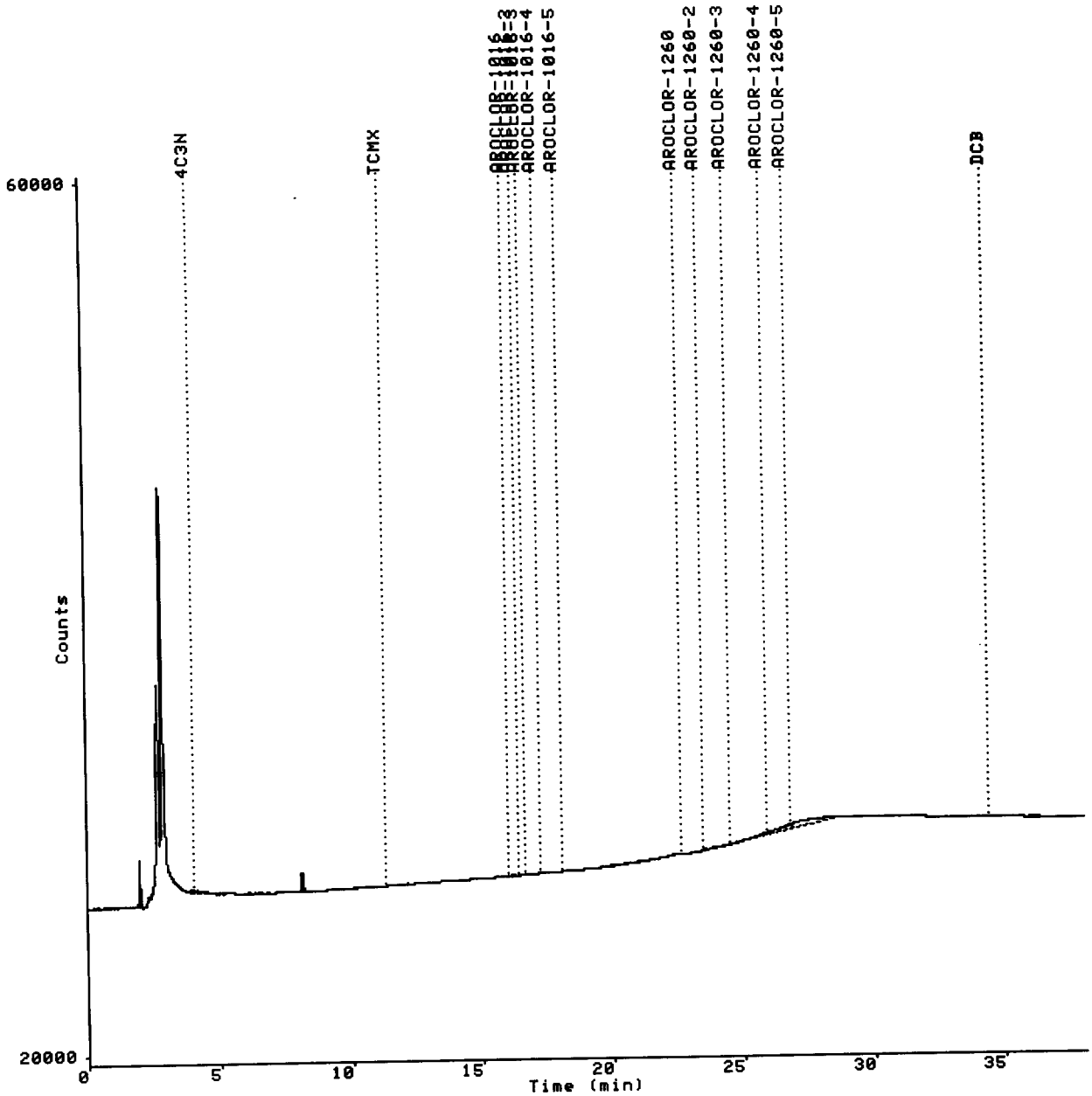
Method: DKB100:[LEWANDOWSKI]5_AR1254_0502.MET;7
Component: AROCLOR-1254-5
Date: 5-MAY-1997 07:16:48.70
Linear fit, Origin Treament....Use.
K0: 4.5585E+03 K1: 2.8253E+05
Coeff. of determination: 0.9996

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	33752	0.10000	
0.2 AR1254	63704	0.20000	
0.4 AR1254	119637	0.40000	
0.5 AR1254	146540	0.50000	
1.0 AR1254	285277	1.0000	



Run Number..... 1
Sample Name..... HEXANE
Run Date..... 2-MAY-1997 17:23:16
Raw File..... 5_0502_001
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



HEXANE

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE
Datafile: 5_0502_001
Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 2-MAY-1997 17:23:16

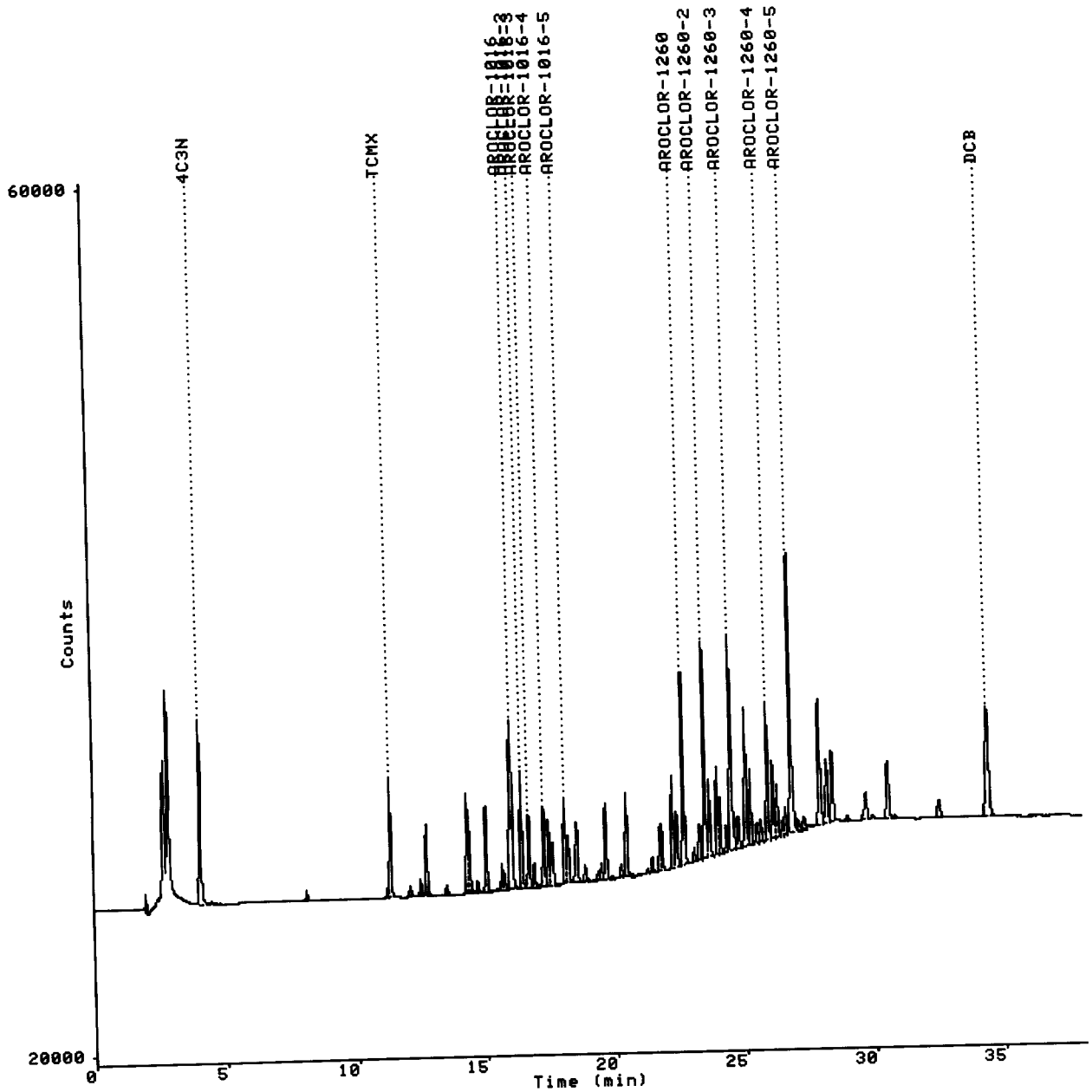
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
AROCLOR-1260-4	26.12	0.0379	16841	BV	1
AROCLOR-1260-5	27.62	0.00952	20643	VB	2

AR1016 average result...-0.0191
AR1260 average result...-0.0137

Run Number..... 1 End of Report.

Run Number..... 2
Sample Name..... 0.1UG/ML AR1016/1260
Run Date..... 2-MAY-1997 18:05:44
Raw File..... 5_0502_002
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.1UG/ML AR1016/1260

412

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_002 Analysis Date: 2-MAY-1997 18:05:44

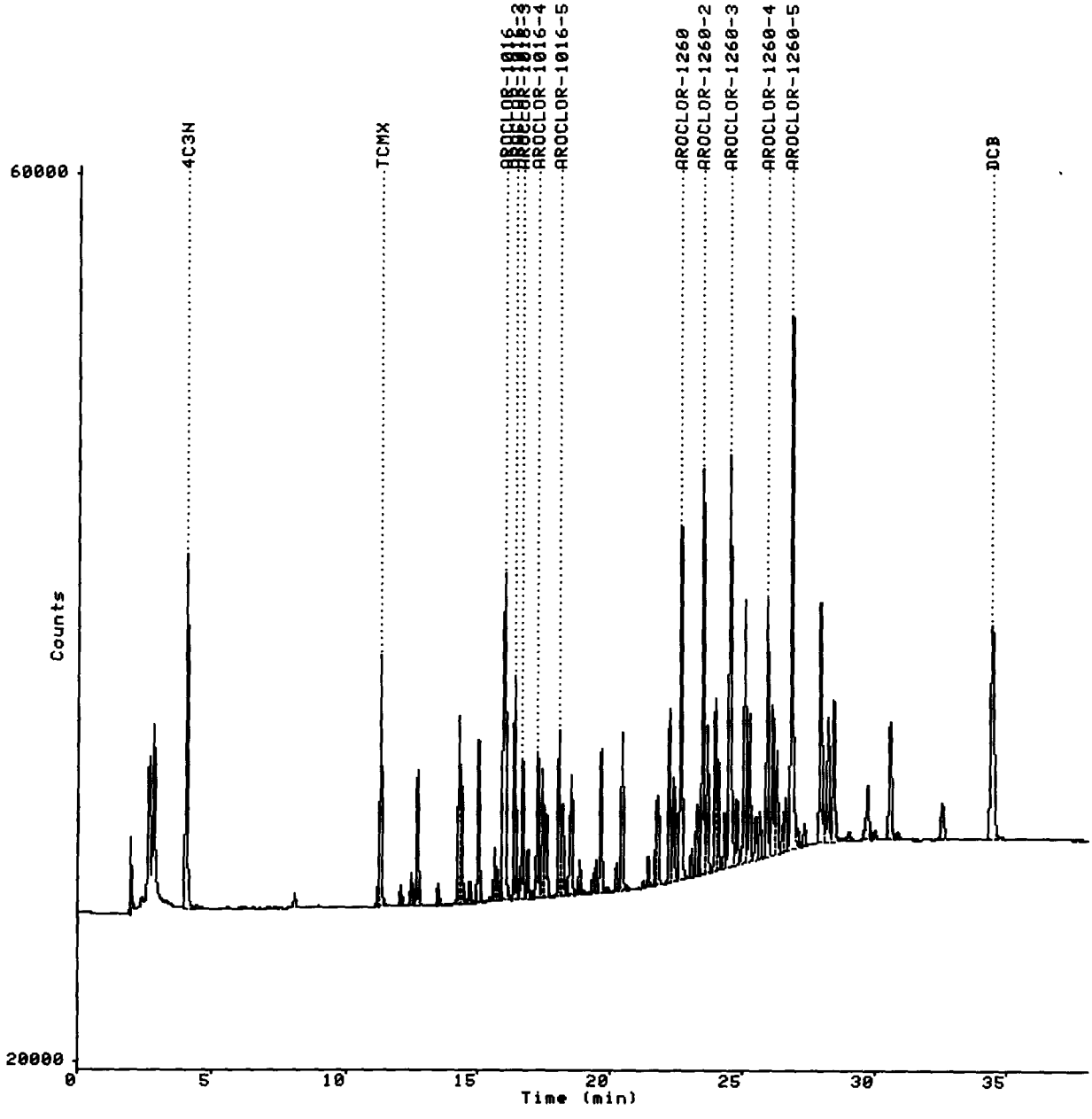
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	4.07	0.00727	41647	BE	1
TCMX	11.32	0.00440	25357	VB	2
	12.71		15880	VB	3
	14.28		22986	BV	4
	14.37		12683	VV	5
	15.02		19462	BB	6
	15.63		5699	BV	7
AROCLOR-1016	16.00	0.0976	61551	BB	8
AROCLOR-1016-2	16.39	0.0957	26204	BV	9
AROCLOR-1016-3	16.68	0.0959	16719	VV	10
	16.89		5438	VB	11
AROCLOR-1016-4	17.26	0.0997	19885	BV	12
	17.43		14877	VV	13
	17.58		12846	VB	14
AROCLOR-1016-5	18.06	0.0967	19424	BV	15
	18.20		11457	VB	16
	18.53		18437	BV	17
	19.65		18096	VE	18
	20.45		19810	VE	19
	21.76		8074	BV	20
	21.80		10088	VB	21
	22.24		20634	BV	22
	22.40		13544	VV	23
AROCLOR-1260	22.66	0.0985	48339	VB	24
	23.28		8089	BV	25
AROCLOR-1260-2	23.49	0.0997	50030	VV	26
	23.67		18463	VV	27
	23.96		20135	VV	28
	24.07		12568	VV	29
	24.33		6162	VV	30
AROCLOR-1260-3	24.51	0.0981	59700	VV	31
	24.79		8118	VV	32
	25.08		33441	VV	33
	25.26		17697	VV	34
	25.51		5721	VV	35
	25.66		5466	VV	36
AROCLOR-1260-4	25.92	0.0979	31560	VV	37
	26.12		18853	VV	38
	26.29		15107	VV	39
	26.62		7139	VV	40
AROCLOR-1260-5	26.84	0.102	72769	VE	41
	27.34		5157	EV	42
	27.95		41990	VV	43
	28.23		17615	VV	44
	28.45		20083	VB	45
	29.75		9215	BV	46
	30.59		18315	BE	47
	32.56		6480	BB	48
DCB	34.42	0.00384	45431	BB	49

AR1016 average result...0.0971
AR1260 average result...0.0993

Run Number..... 2 End of Report.

Run Number..... 3
Sample Name..... 0.2UG/ML AR1016/1260
Run Date..... 2-MAY-1997 18:48:10
Raw File..... 5_0502_003
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.2UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_003 Analysis Date: 2-MAY-1997 18:48:10

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	4.06	0.0211	79382	BE	1
TCMX	11.32	0.00966	51467	VB	2
	12.48		6661	BV	3
	12.70		29456	VB	4
	14.27		42041	BV	5
	14.36		24168	VV	6
	14.68		5444	VB	7
	15.01		36633	BB	8
	15.62		10934	BV	9
	15.73		6052	VB	10
AROCLOR-1016	15.99	0.214	115412	BV	11
AROCLOR-1016-2	16.38	0.215	49945	VV	12
AROCLOR-1016-3	16.67	0.211	32561	VV	13
	16.88		10763	VB	14
AROCLOR-1016-4	17.25	0.222	36392	BV	15
	17.43		27775	VV	16
	17.57		24487	VB	17
AROCLOR-1016-5	18.05	0.216	37036	VV	18
	18.20		22847	VV	19
	18.52		36707	VV	20
	18.84		8309	VE	21
	19.47		7251	VV	22
	19.65		34297	VE	23
	20.24		6549	BV	24
	20.44		36664	VE	25
	21.45		6257	VB	26
	21.75		14627	BV	27
	21.80		19798	VB	28
	22.23		38871	BV	29
	22.39		25815	VV	30
AROCLOR-1260	22.66	0.220	88756	VV	31
	23.07		6670	VV	32
	23.27		15958	VV	33
AROCLOR-1260-2	23.49	0.218	91481	VV	34
	23.66		34882	VV	35
	23.96		38206	VV	36
	24.07		24274	VV	37
	24.32		12361	VV	38
AROCLOR-1260-3	24.50	0.209	112251	VV	39
	24.78		16033	VV	40
	25.07		62609	VV	41
	25.25		33650	VV	42
	25.50		11237	VV	43
	25.66		10398	VB	44
AROCLOR-1260-4	25.92	0.207	58343	BV	45
	26.12		35089	VV	46
	26.28		27386	VV	47
	26.50		6188	VV	48
	26.61		12403	VV	49
AROCLOR-1260-5	26.84	0.207	132073	VE	50

Run Number..3 Page 3

Sample ID: 0.2UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_003 Analysis Date: 2-MAY-1997 18:48:10

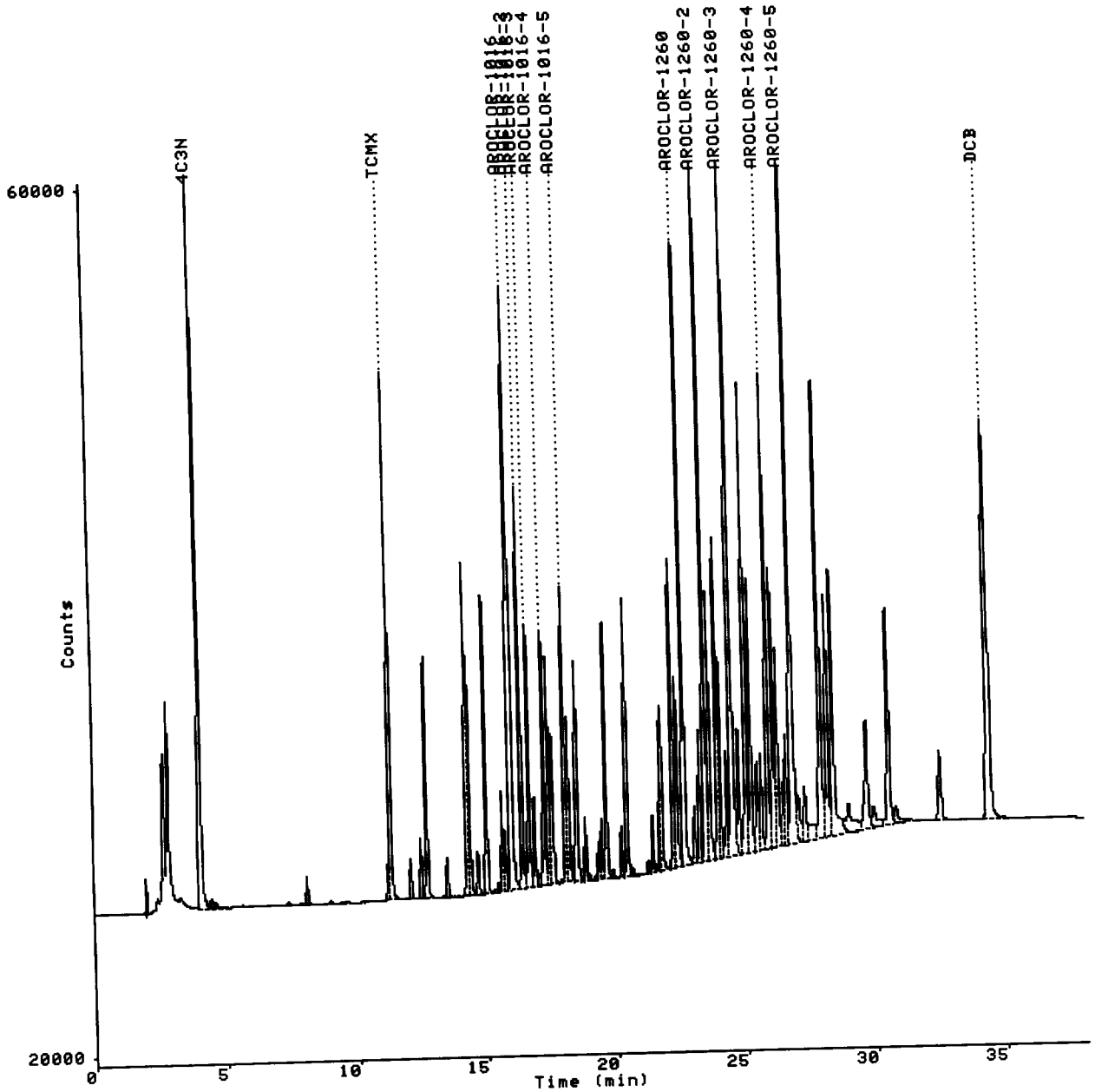
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	27.33		5586	EV	51
	27.94		70984	BV	52
	28.23		32709	VV	53
	28.44		40071	VE	54
	29.74		18507	BV	55
	30.58		35700	BE	56
	32.55		12814	BE	57
	34.41	0.0102	88905	BB	58
DCB					

AR1016 average result...0.216
AR1260 average result...0.212

Run Number..... 3 End of Report.

Run Number..... 4
Sample Name..... 0.4UG/ML AR1016/1260
Run Date..... 2-MAY-1997 19:30:30
Raw File..... 5_0502_004
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.4UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_004 Analysis Date: 2-MAY-1997 19:30:30

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	4.06	0.0570	177284	BE	1
	8.10		5494	BB	2
	11.21		6504	BV	3
TCMX	11.31	0.0209	107187	VB	4
	12.08		9332	BB	5
	12.48		12832	BV	6
	12.70		54675	VV	7
	13.49		8666	VE	8
	14.27		76751	BV	9
	14.36		44352	VV	10
	14.68		10533	VB	11
	15.01		68714	BE	12
	15.62		21378	VV	13
	15.73		12230	VV	14
AROCLOR-1016	15.99	0.430	214933	VV	15
AROCLOR-1016-2	16.38	0.431	92830	VV	16
AROCLOR-1016-3	16.67	0.425	61859	VV	17
	16.88		20366	VB	18
AROCLOR-1016-4	17.25	0.434	64982	BV	19
	17.43		51370	VV	20
	17.57		45219	VB	21
AROCLOR-1016-5	18.05	0.428	68538	VV	22
	18.19		42278	VV	23
	18.52		68881	VV	24
	18.84		14880	VE	25
	19.35		7918	VV	26
	19.47		13899	VV	27
	19.65		62621	VE	28
	20.24		12495	BV	29
	20.44		65843	VE	30
	21.45		12455	VV	31
	21.75		25908	VV	32
	21.80		38528	VV	33
	22.23		71303	VV	34
	22.39		47986	VV	35
AROCLOR-1260	22.66	0.435	160576	VV	36
	23.07		14758	VV	37
	23.27		32055	VV	38
AROCLOR-1260-2	23.49	0.433	166728	VV	39
	23.66		67413	VV	40
	23.96		73694	VV	41
	24.07		46978	VV	42
	24.32		26974	VV	43
AROCLOR-1260-3	24.50	0.426	215029	VE	44
	24.78		31819	EV	45
	25.07		119894	VV	46
	25.25		66943	VV	47
	25.50		26488	VV	48
	25.66		25561	VV	49
AROCLOR-1260-4	25.92	0.432	113384	VV	50

Sample ID: 0.4UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_004 Analysis Date: 2-MAY-1997 19:30:30

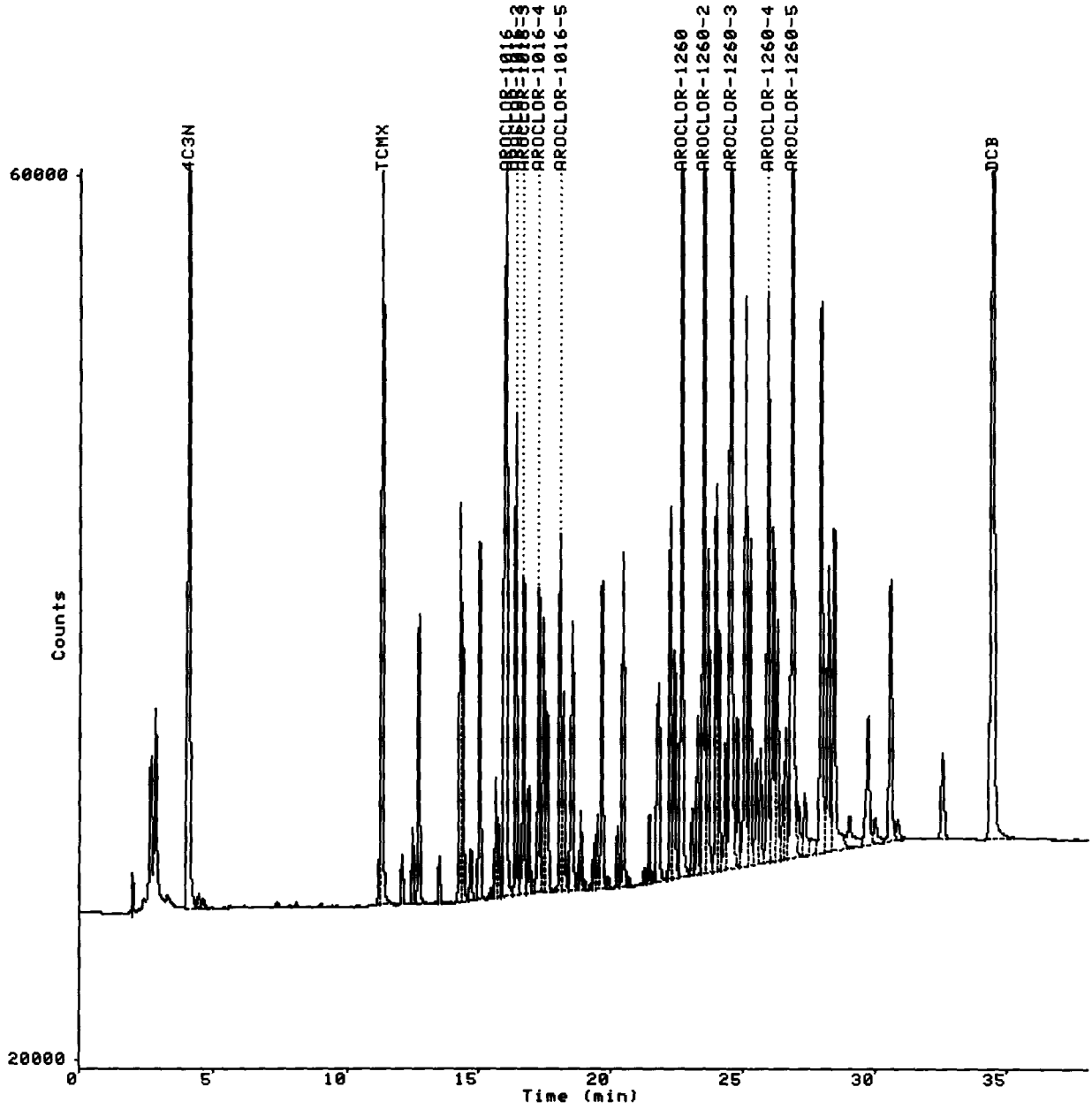
Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	26.12		69636	VV	51
	26.28		57648	VV	52
	26.50		16223	VV	53
	26.61		28931	VV	54
	26.84		254736	VE	55
AROCLOR-1260-5	27.08	0.425	15657	EV	56
	27.33		20325	EV	57
	27.57		11690	VV	58
	27.94		146115	VV	59
	28.23		67923	VV	60
	28.44		92852	VE	61
	29.02		23238	EV	62
	29.74		45274	VE	63
	30.01		12543	EV	64
	30.58		72296	VE	65
	30.86		8540	EV	66
	32.55		24815	BB	67
DCB	34.41	0.0225	171892	BB	68

AR1016 average result...0.430
AR1260 average result...0.430

Run Number..... 4 End of Report.

Run Number..... 5
Sample Name..... 0.5UG/ML AR1016/1260
Run Date..... 2-MAY-1997 20:13:01
Raw File..... 5_0502_005
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.5UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_005 Analysis Date: 2-MAY-1997 20:13:01

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	4.06	0.109	317957	BE	1
	11.22		7617	BV	2
TCMX	11.32	0.0415	209346	VE	3
	12.08		11449	VB	4
	12.48		16024	BV	5
	12.70		64251	VB	6
	13.49		10268	VE	7
	14.27		90631	BV	8
	14.36		52501	VV	9
	14.68		12653	VB	10
	15.01		81648	BE	11
	15.63		25605	VV	12
	15.73		14574	VV	13
AROCLOR-1016	16.00	0.517	255410	VV	14
AROCLOR-1016-2	16.38	0.518	110018	VV	15
AROCLOR-1016-3	16.67	0.511	73589	VV	16
	16.88		24261	VB	17
AROCLOR-1016-4	17.25	0.520	76519	BV	18
	17.43		60722	VV	19
	17.57		53963	VB	20
AROCLOR-1016-5	18.05	0.516	81484	VV	21
	18.20		50154	VV	22
	18.52		82402	VV	23
	18.84		17803	VE	24
	19.35		9589	VV	25
	19.47		16650	VV	26
	19.65		74339	VE	27
	20.24		15052	BV	28
	20.44		78221	VE	29
	21.45		15150	VV	30
	21.78		77012	VV	31
	22.23		84825	VV	32
	22.39		56899	VV	33
AROCLOR-1260	22.66	0.522	189404	VV	34
	23.07		17441	VV	35
	23.27		38028	VV	36
AROCLOR-1260-2	23.49	0.519	196794	VV	37
	23.66		79633	VV	38
	23.96		88265	VV	39
	24.07		54838	VV	40
	24.32		31925	VV	41
AROCLOR-1260-3	24.50	0.513	256002	VE	42
	24.78		37532	EV	43
	25.07		141499	VV	44
	25.25		78987	VV	45
	25.51		31010	VV	46
	25.66		29782	VV	47
AROCLOR-1260-4	25.92	0.516	134030	VV	48
	26.12		81927	VV	49
	26.29		67749	VV	50

Sample ID: 0.5UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_005 Analysis Date: 2-MAY-1997 20:13:01

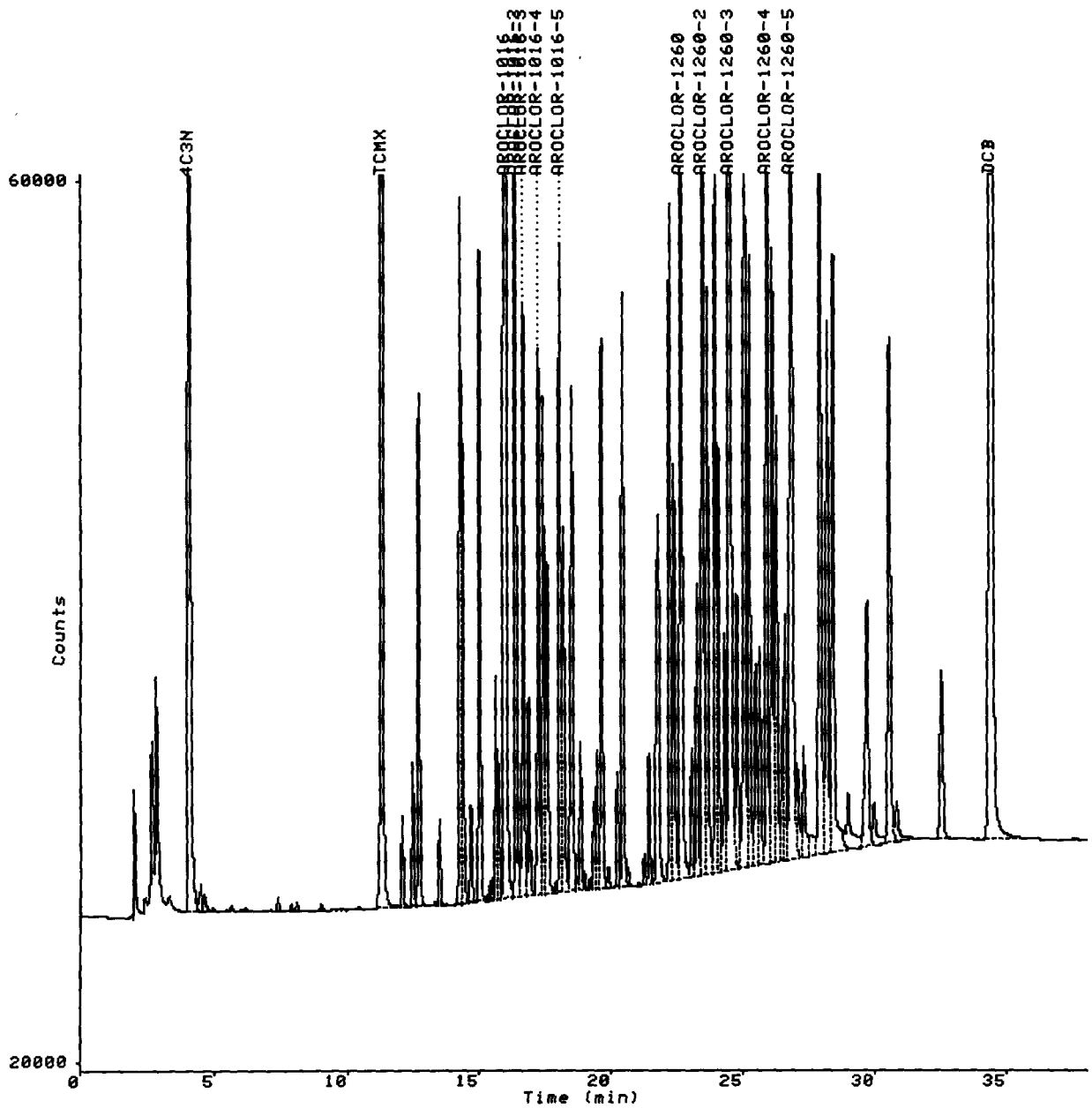
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	26.50		18676	VV	51
	26.61		33753	VV	52
AROCLOR-1260-5	26.84	0.510	302698	VE	53
	27.09		17019	EV	54
	27.33		22651	EV	55
	27.56		11770	VV	56
	27.94		171249	VV	57
	28.23		79496	VV	58
	28.45		106376	VE	59
	29.02		23054	EV	60
	29.74		51494	VE	61
	30.01		12494	EV	62
	30.58		84045	VE	63
	30.87		8070	EB	64
	32.55		30766	BB	65
DCB	34.41	0.0430	311298	BB	66

AR1016 average result...0.516
AR1260 average result...0.516

Run Number..... 5 End of Report.

Run Number..... 6
Sample Name..... 1.0UG/ML AR1016/1260
Run Date..... 2-MAY-1997 20:55:48
Raw File..... 5_0502_006
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



1.0UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_006 Analysis Date: 2-MAY-1997 20:55:48

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	4.06	0.194	550312	BE	1
	4.49		8312	EV	2
	4.64		5315	EV	3
TCMX	11.32	0.0993	496396	BE	4
	12.08		21428	VB	5
	12.48		30291	BV	6
	12.70		115019	VB	7
	13.49		19064	VE	8
	14.27		161056	BV	9
	14.36		94396	VV	10
	14.68		23737	VB	11
	15.01		149623	BE	12
	15.63		47613	VV	13
	15.74		27851	VV	14
AROCLOR-1016	16.00	0.977	467697	VV	15
AROCLOR-1016-2	16.38	0.976	200887	VV	16
AROCLOR-1016-3	16.68	0.983	138233	VV	17
	16.88		46080	VV	18
AROCLOR-1016-4	17.25	0.972	137548	VV	19
	17.43		110641	VV	20
	17.57		100313	VE	21
AROCLOR-1016-5	18.05	0.978	149896	VV	22
	18.20		92151	VV	23
	18.52		154965	VV	24
	18.84		33476	VE	25
	19.35		18224	VV	26
	19.47		31001	VV	27
	19.65		133562	VE	28
	19.89		6119	EB	29
	20.24		28081	BV	30
	20.44		139207	VE	31
	21.26		6548	BV	32
	21.45		28506	VV	33
	21.79		140077	VV	34
	22.23		154375	VV	35
	22.39		103575	VV	36
AROCLOR-1260	22.66	0.971	339334	VV	37
	23.07		32676	VV	38
	23.27		70123	VV	39
AROCLOR-1260-2	23.49	0.974	356380	VV	40
	23.66		143677	VV	41
	23.96		166749	VV	42
	24.07		96992	VV	43
	24.32		58275	VV	44
AROCLOR-1260-3	24.50	0.981	477433	VE	45
	24.79		68229	EV	46
	25.07		257689	VV	47
	25.26		144135	VV	48
	25.50		56571	VV	49
	25.66		54179	VV	50

Run Number..6 Page 3

Sample ID: 1.0UG/ML AR1016/126 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_006 Analysis Date: 2-MAY-1997 20:55:48

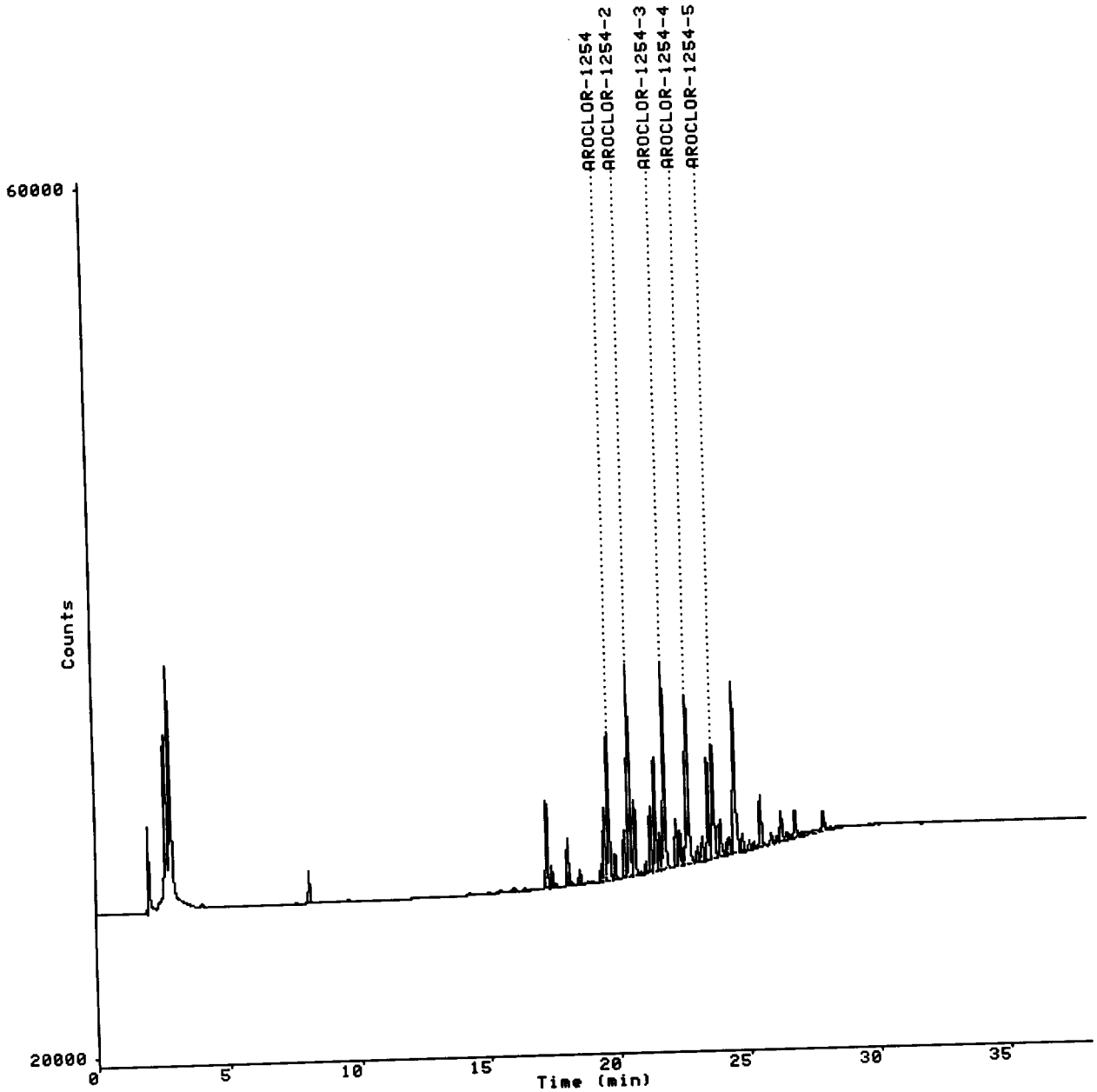
Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
AROCLOR-1260-4	25.92	0.978	247404	VV	51
	26.12		148991	VV	52
	26.28		123558	VV	53
	26.50		33163	VV	54
	26.61		60689	VV	55
AROCLOR-1260-5	26.84	0.984	569981	VE	56
	27.09		26549	EV	57
	27.33		36109	EV	58
	27.56		14541	VV	59
	27.94		319979	VV	60
	28.23		144141	VV	61
	28.44		188744	VE	62
	29.02		35542	EV	63
	29.74		93430	VE	64
	30.01		20728	EV	65
	30.58		160183	VE	66
	30.86		17645	EV	67
	32.55		61330	BE	68
DCB	34.42	0.0984	687634	BB	69

AR1016 average result...0.977
AR1260 average result...0.978

Run Number..... 6 End of Report.

Run Number..... 7
Sample Name..... 0.1UG/ML AR1254
Run Date..... 2-MAY-1997 21:38:14
Raw File..... 5_0502_007
Method Name..... 5_AR1254_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.1UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1UG/ML AR1254
Datafile: 5_0502_007

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 2-MAY-1997 21:38:14

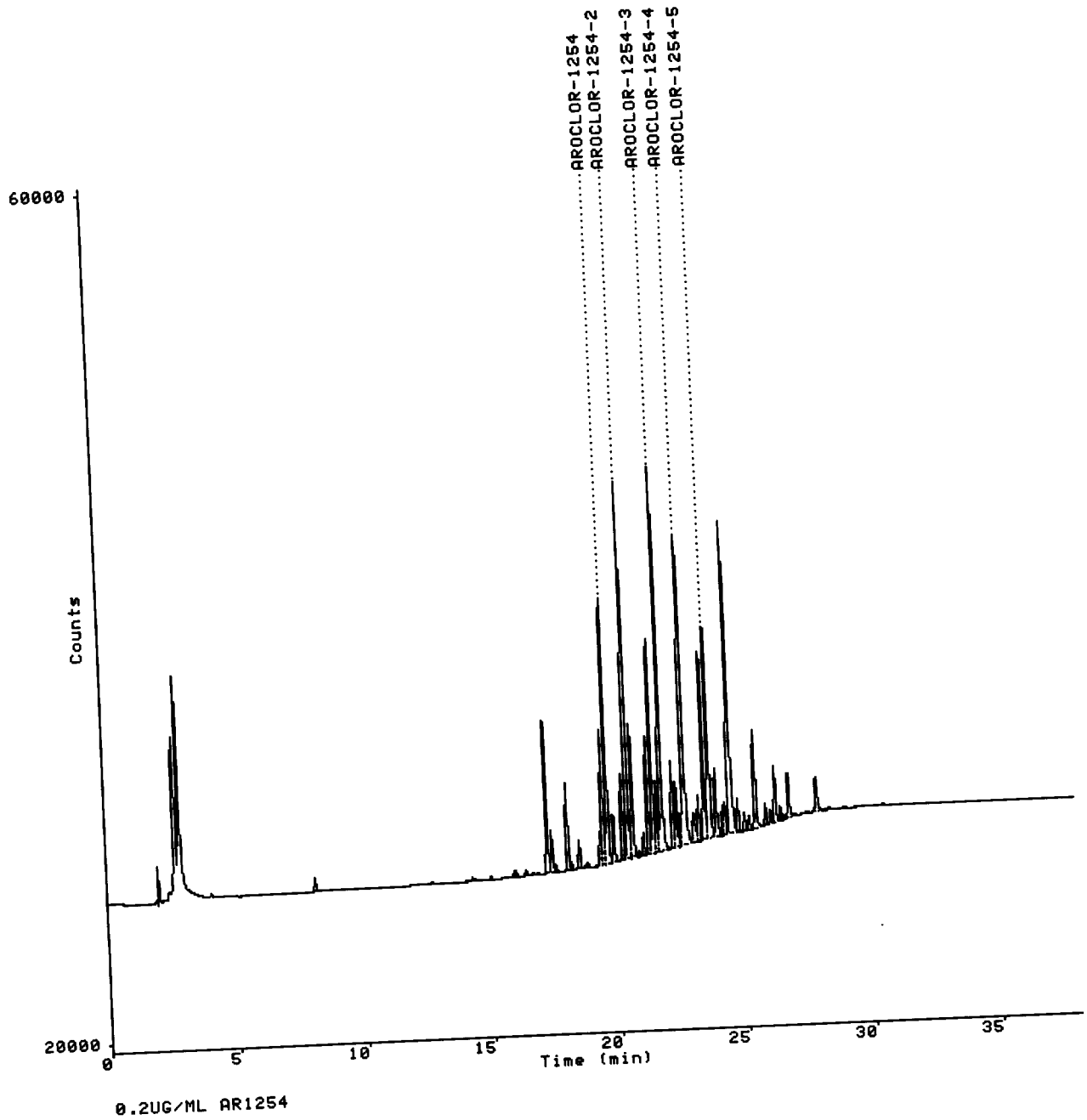
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	8.11		6307	BB	1
	17.25		21027	BV	2
	17.43		5398	VE	3
	18.06		10614	BE	4
	18.52		3784	BB	5
	19.35		3749	BV	6
	19.47		16901	VV	7
AROCLOR-1254	19.65	0.102	36668	VV	8
	19.90		6022	VB	9
	20.24		11267	BV	10
AROCLOR-1254-2	20.45	0.104	51248	VV	11
	20.65		17406	VB	12
	21.07		2512	BB	13
	21.26		14750	BV	14
	21.45		27280	VV	15
	21.62		8608	VV	16
AROCLOR-1254-3	21.81	0.103	52704	VB	17
	22.25		11026	BV	18
	22.40		8263	VV	19
	22.54		3632	VV	20
AROCLOR-1254-4	22.71	0.103	58980	VE	21
	23.08		5120	EV	22
	23.27		6426	EB	23
	23.49		23658	BV	24
AROCLOR-1254-5	23.69	0.103	33752	VV	25
	23.96		9911	VB	26
	24.23		3258	BV	27
	24.32		3748	VV	28
	24.51		49375	VE	29
	24.81		4112	EV	30
	25.51		14009	BV	31
	25.92		3092	VV	32
	26.30		8429	VV	33
	26.51		2641	VV	34
	26.84		8403	VE	35
	27.94		13397	VE	36

Average result...0.103 UG/ML

Run Number..... 7 End of Report.

Run Number..... 8
Sample Name..... 0.2UG/ML AR1254
Run Date..... 2-APR-1970 00:32:01
Raw File..... 5_0502_008
Method Name..... 5_AR1254_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2UG/ML AR1254 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_008 Analysis Date: 2-APR-1970 00:32:01

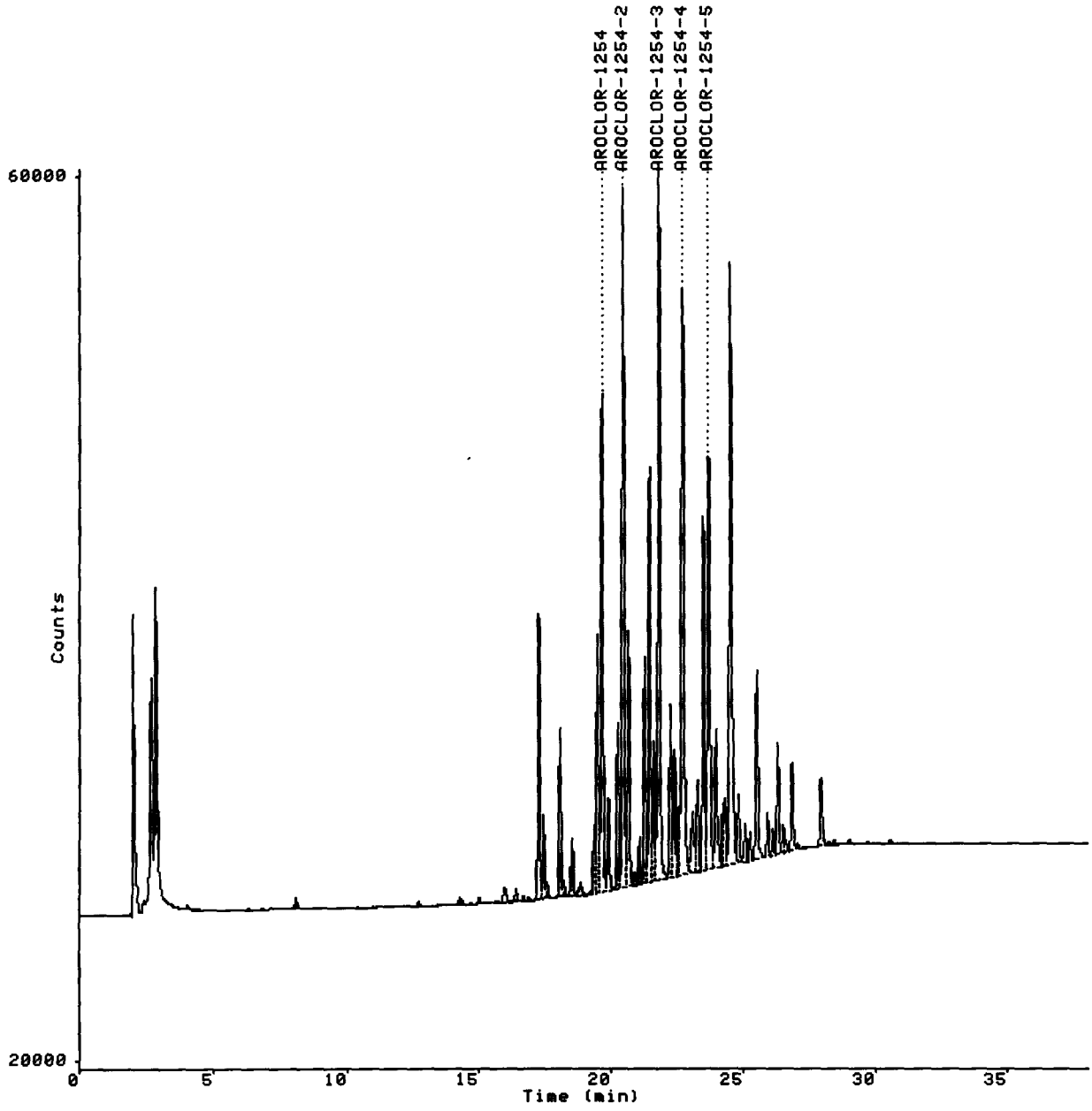
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	8.11		2796	BB	1
	15.97		2574	BB	2
	17.26		36156	BV	3
	17.43		10393	VE	4
	18.06		20370	BE	5
	18.52		7443	BB	6
	19.35		7531	VV	7
	19.47		32072	VV	8
AROCLOR-1254	19.65	0.219	67719	VV	9
	19.90		11866	VB	10
	20.24		21403	BV	11
AROCLOR-1254-2	20.45	0.219	92517	VV	12
	20.65		32906	VE	13
	21.08		4937	BB	14
	21.27		27608	BV	15
	21.45		51401	VV	16
	21.62		16534	VV	17
AROCLOR-1254-3	21.81	0.211	98828	VB	18
	22.25		21204	BV	19
	22.40		15751	VV	20
	22.54		7057	VV	21
AROCLOR-1254-4	22.71	0.215	108840	VE	22
	23.08		10045	EV	23
	23.27		12481	EB	24
	23.49		43890	BV	25
AROCLOR-1254-5	23.69	0.209	63704	VV	26
	23.96		18520	VV	27
	24.23		6566	VV	28
	24.32		7340	VV	29
	24.51		93150	VE	30
	24.82		8117	EV	31
	25.08		4295	EB	32
	25.26		2984	BB	33
	25.51		26656	BB	34
	25.92		5083	BV	35
	26.13		2899	VV	36
	26.30		14816	VE	37
	26.51		3313	EV	38
	26.85		11392	VE	39
	27.94		10818	BE	40

Average result...0.215 UG/ML

Run Number..... 8 End of Report.

Run Number..... 9
Sample Name..... 0.4UG/ML AR1254
Run Date..... 2-MAY-1997 23:02:56
Raw File..... 5_0502_009
Method Name..... 5_AR1254_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.4UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1254 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_009 Analysis Date: 2-MAY-1997 23:02:56

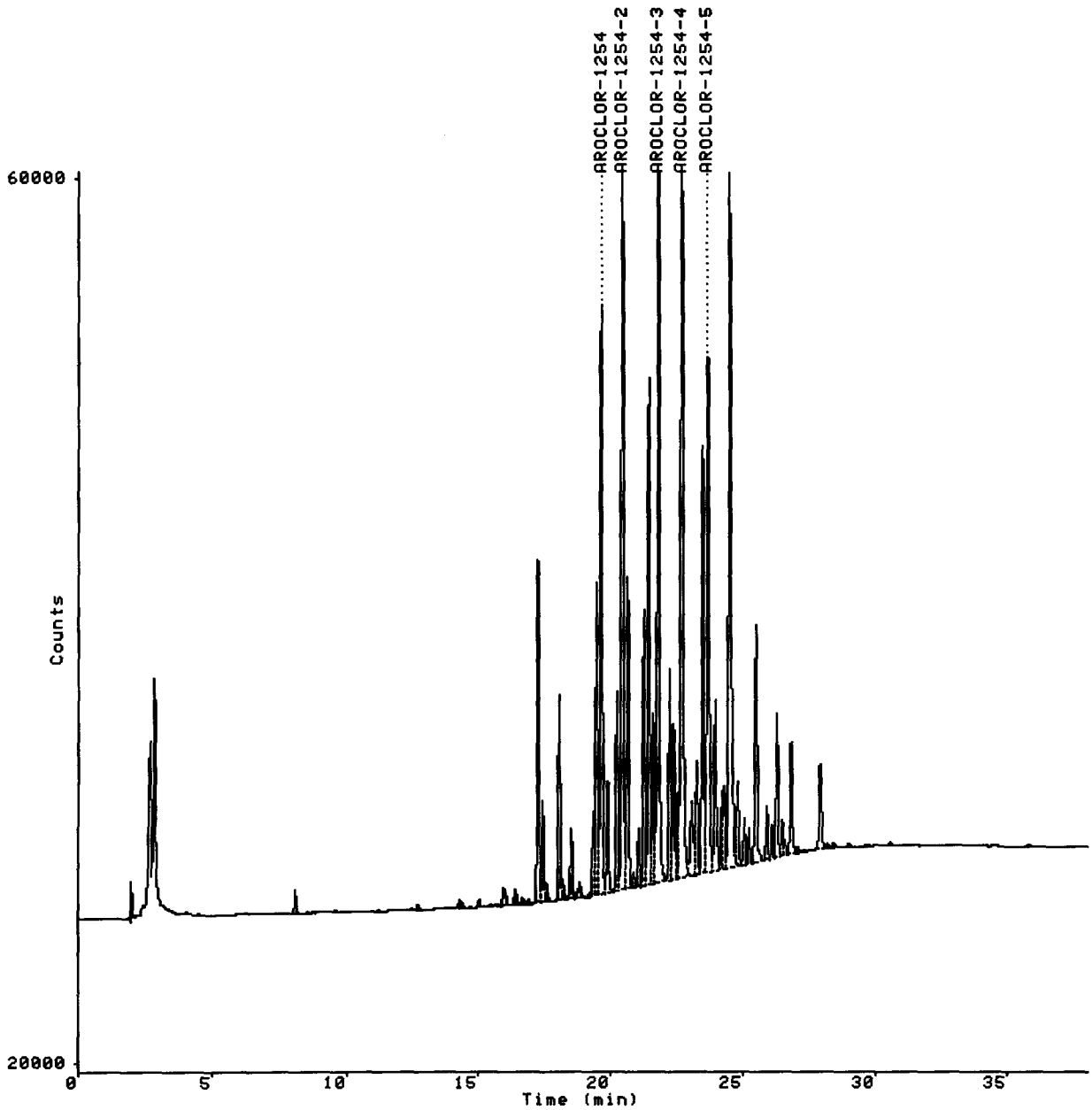
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	15.97		5136	BB	1
	16.40		2950	BV	2
	17.25		65425	BV	3
	17.43		19675	VE	4
	17.56		3435	EB	5
	18.06		37749	BE	6
	18.20		2937	EB	7
	18.52		14244	BB	8
	18.84		3793	BE	9
	19.35		14365	VV	10
	19.47		58881	VV	11
AROCLOR-1254	19.65	0.422	121266	VV	12
	19.90		22086	VV	13
	20.24		40070	VV	14
AROCLOR-1254-2	20.45	0.422	165839	VV	15
	20.65		60460	VE	16
	20.89		3543	EV	17
	21.07		10212	VV	18
	21.26		51127	VV	19
	21.45		95994	VV	20
	21.62		31453	VV	21
AROCLOR-1254-3	21.81	0.411	184055	VV	22
	22.25		40707	VV	23
	22.40		30255	VV	24
	22.54		14162	VV	25
AROCLOR-1254-4	22.71	0.416	198298	VE	26
	23.08		21591	EV	27
	23.27		25264	EV	28
	23.49		81087	VV	29
AROCLOR-1254-5	23.69	0.407	119637	VV	30
	23.96		37842	VV	31
	24.23		13892	VV	32
	24.32		14926	VV	33
	24.51		173085	VE	34
	24.82		16486	EV	35
	25.08		9483	EV	36
	25.26		6283	VB	37
	25.51		49656	BV	38
	25.92		9820	VV	39
	26.13		5782	VV	40
	26.30		27737	VV	41
	26.51		7174	VV	42
	26.61		2991	VV	43
	26.85		21999	VE	44
	27.94		19548	BE	45

Average result...0.416 UG/ML

Run Number..... 9 End of Report.

Run Number..... 10
Sample Name..... 0.5UG/ML AR1254
Run Date..... 2-MAY-1997 23:45:46
Raw File..... 5_0502_010
Method Name..... 5_AR1254_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.5UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

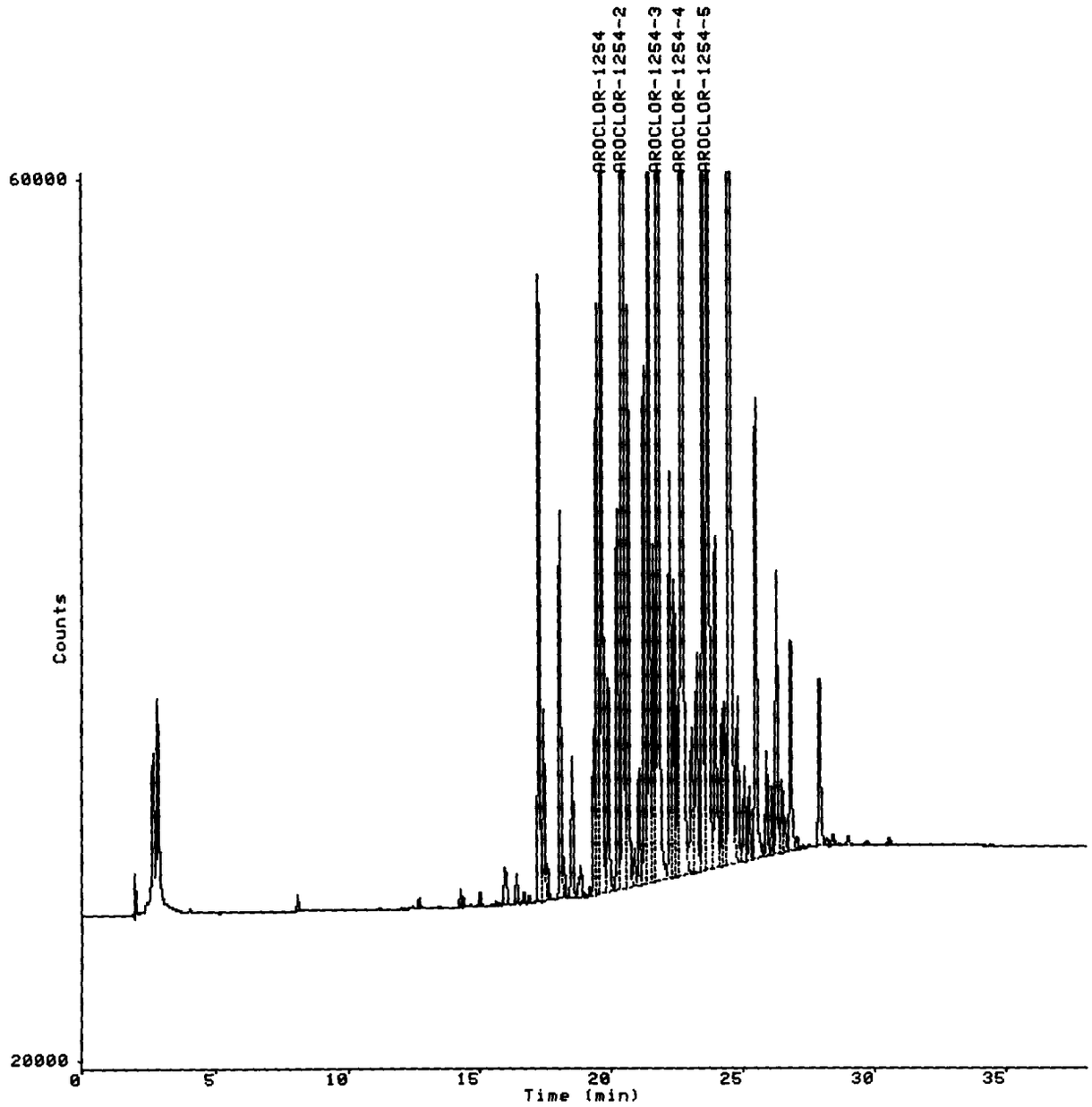
Sample ID: 0.5UG/ML AR1254 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_010 Analysis Date: 2-MAY-1997 23:45:46

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	8.11		4600	BB	1
	15.97		6207	BB	2
	16.40		3702	BV	3
	17.26		77888	BV	4
	17.44		23839	VE	5
	17.56		3935	EB	6
	18.06		45462	BE	7
	18.20		3654	EB	8
	18.53		17759	BV	9
	18.85		5143	VE	10
	19.35		17614	VV	11
	19.48		71321	VV	12
AROCLOR-1254	19.65	0.512	145165	VV	13
	19.90		26886	VV	14
	20.24		48784	VV	15
AROCLOR-1254-2	20.45	0.513	198466	VV	16
	20.65		72763	VE	17
	20.90		4158	EV	18
	21.08		12829	VV	19
	21.27		62182	VV	20
	21.45		116986	VV	21
	21.62		38404	VV	22
AROCLOR-1254-3	21.81	0.503	223156	VV	23
	22.25		49606	VV	24
	22.40		36873	VV	25
	22.54		17659	VV	26
AROCLOR-1254-4	22.71	0.509	239694	VE	27
	23.08		26156	EV	28
	23.27		30886	EV	29
	23.49		98269	VV	30
AROCLOR-1254-5	23.69	0.503	146540	VV	31
	23.96		44650	VV	32
	24.23		16815	VV	33
	24.32		18302	VV	34
	24.51		210790	VE	35
	24.82		20198	EV	36
	25.08		11711	EV	37
	25.26		7784	VB	38
	25.51		60917	BB	39
	25.92		12192	BV	40
	26.13		7274	VV	41
	26.30		34841	VV	42
	26.51		9031	VV	43
	26.62		3708	VV	44
	26.85		27724	VE	45
	27.95		24170	BE	46

Average result...0.508 UG/ML

Run Number..... 11
Sample Name..... 1.0UG/ML AR1254
Run Date..... 3-MAY-1997 00:28:41
Raw File..... 5_0502_011
Method Name..... 5_AR1254_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



1.0UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0UG/ML AR1254 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_011 Analysis Date: 3-MAY-1997 00:28:41

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	8.11		3059	BB	1
	14.28		3764	BV	2
	15.01		3053	BB	3
	15.96		12797	VV	4
	16.39		7381	VV	5
	16.68		2897	VV	6
	17.25		142707	BV	7
	17.43		45923	VE	8
	17.56		8088	EB	9
	18.05		87334	BE	10
	18.19		7238	EB	11
	18.52		35304	BV	12
	18.84		10490	VE	13
	19.34		34770	VV	14
	19.47		135441	VV	15
AROCLOR-1254	19.64	0.981	269574	VV	16
	19.89		52303	VV	17
	20.24		94115	VV	18
AROCLOR-1254-2	20.44	0.981	367244	VV	19
	20.65		137271	VE	20
	20.89		10286	EV	21
	21.07		26873	VV	22
	21.26		119250	VV	23
	21.44		229177	VV	24
	21.62		75603	VV	25
AROCLOR-1254-3	21.80	0.992	431926	VV	26
	22.24		97168	VV	27
	22.39		71426	VV	28
	22.53		35205	VV	29
AROCLOR-1254-4	22.70	0.986	451677	VE	30
	23.07		53329	EV	31
	23.26		61200	EV	32
	23.48		185209	VV	33
AROCLOR-1254-5	23.68	0.994	285277	VV	34
	23.96		89403	VV	35
	24.22		34812	VV	36
	24.31		36597	VV	37
	24.50		407561	VE	38
	24.81		40801	EV	39
	25.07		25228	EV	40
	25.25		17295	VV	41
	25.51		121400	VV	42
	25.92		25857	VV	43
	26.12		15615	VV	44
	26.30		69108	VV	45
	26.50		18597	VV	46
	26.61		8014	VV	47
	26.84		52878	VE	48
	27.08		3966	EV	49
	27.94		47342	BE	50

Run Number..11 Page 3

Sample ID: 1.0UG/ML AR1254 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_011 Analysis Date: 3-MAY-1997 00:28:41

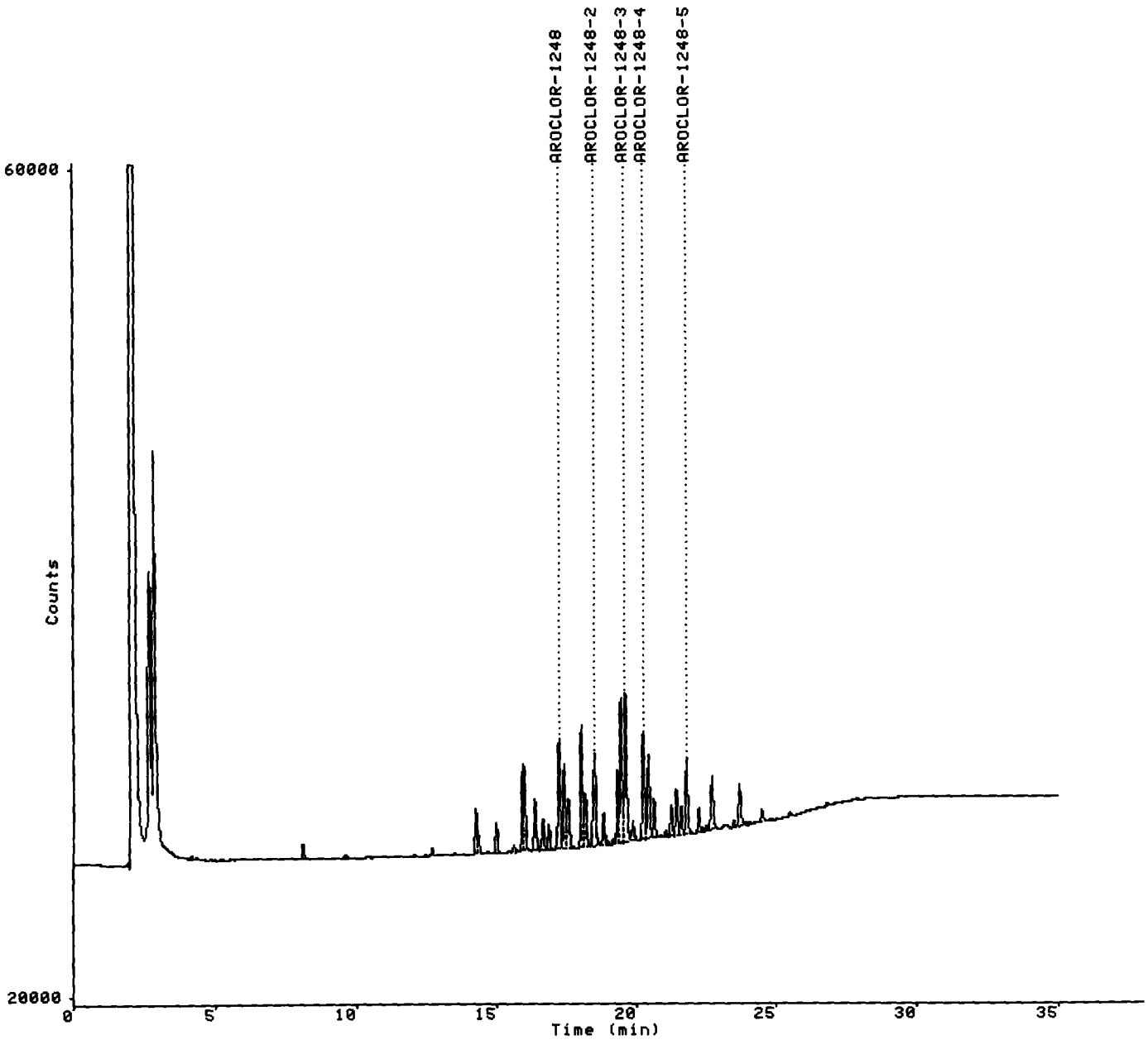
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	28.22		2637	EV	51
	28.44		3657	EV	52
	29.02		2838	VB	53

Average result...0.987 UG/ML

Run Number..... 11 End of Report.

Run Number..... 12
Sample Name..... 0.1 UG/ML AR1248
Run Date..... 3-MAY-1997 01:10:54
Raw File..... 5_0502_012
Method Name..... 5_AR1248_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.1 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1 UG/ML AR1248 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_012 Analysis Date: 3-MAY-1997 01:10:54

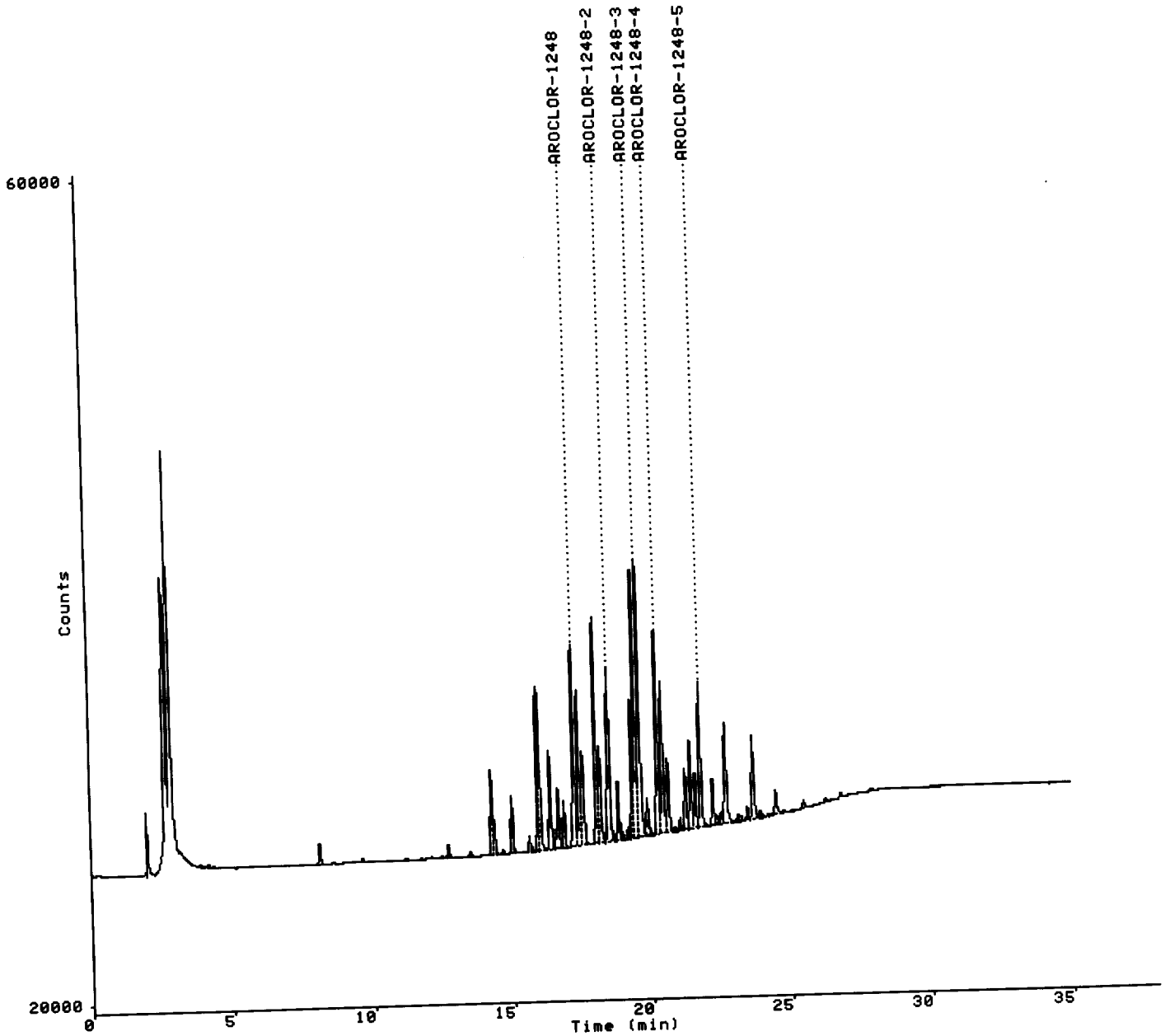
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	14.27		10947	BV	1
	15.00		7098	BB	2
	15.95		18810	BV	3
	15.99		15957	VV	4
	16.38		13339	VV	5
	16.67		8369	VV	6
	16.87		5765	VB	7
AROCLOR-1248	17.25	0.115	28560	BV	8
	17.42		19792	VV	9
	17.56		15736	VB	10
	18.04		29200	BV	11
	18.19		13487	VV	12
AROCLOR-1248-2	18.51	0.116	29688	VV	13
	18.83		7506	VE	14
	19.34		16493	VV	15
	19.46		35128	VV	16
AROCLOR-1248-3	19.62	0.115	42219	VE	17
	19.88		5948	EB	18
AROCLOR-1248-4	20.25	0.115	29362	BV	19
	20.44		22174	VV	20
	20.64		9533	VB	21
	21.25		8001	BV	22
	21.44		11809	VV	23
	21.61		6798	VV	24
AROCLOR-1248-5	21.80	0.114	19679	VB	25
	22.24		5809	BE	26
	22.71		15585	VB	27
	23.69		12160	VE	28

Average result...0.115 UG/ML

Run Number..... 12 End of Report.

Run Number..... 13
Sample Name..... 0.2 UG/ML AR1248
Run Date..... 3-MAY-1997 01:53:20
Raw File..... 5_0502_013
Method Name..... 5_AR1248_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.2 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2 UG/ML AR1248
Datafile: 5_0502_013

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 01:53:20

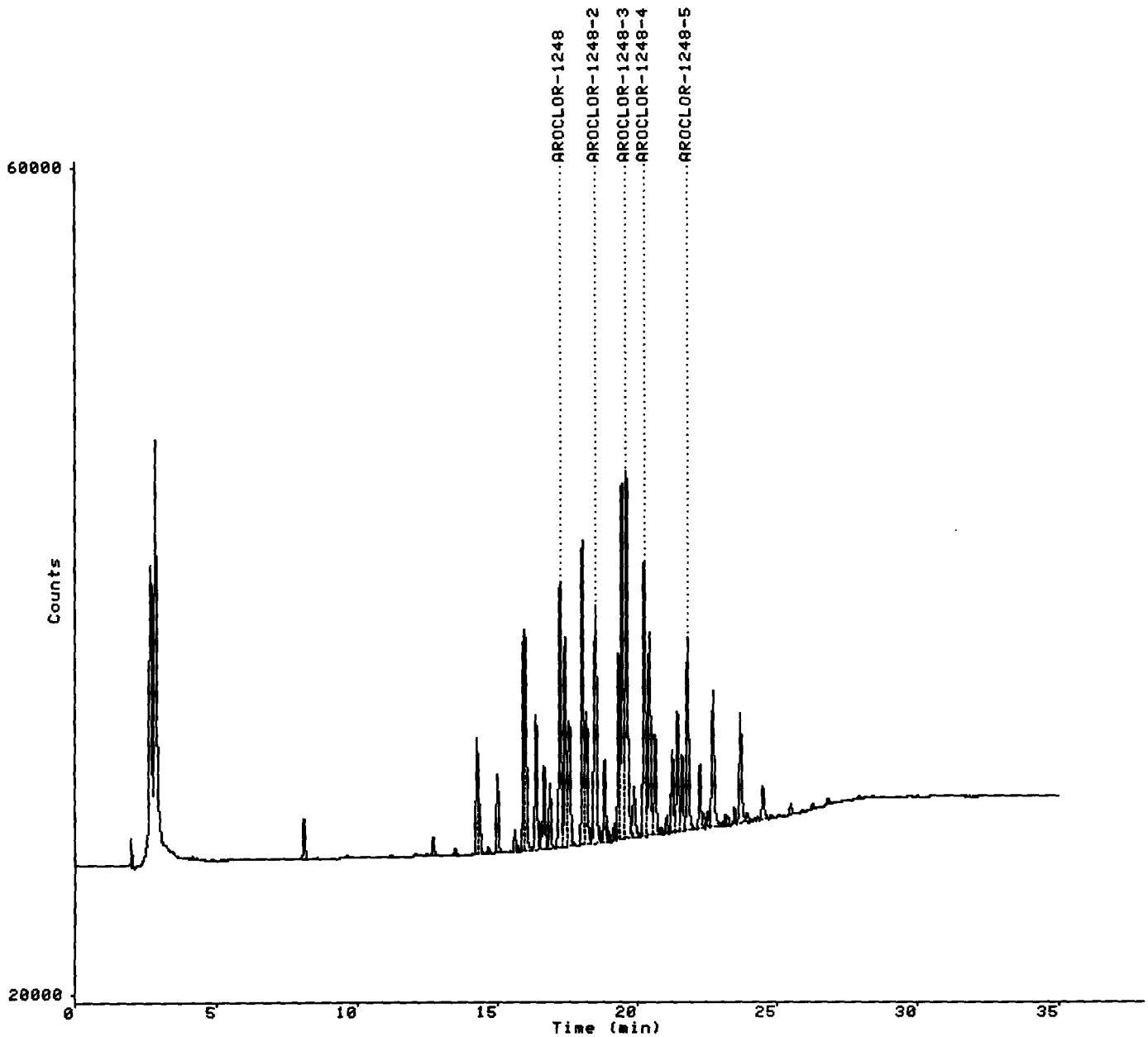
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	8.10		4112	BB	1
	14.26		20600	BV	2
	14.34		6055	VB	3
	15.00		13883	BB	4
	15.94		34176	BV	5
	15.99		32019	VV	6
	16.38		25539	VV	7
	16.66		16576	VV	8
	16.87		11237	VB	9
AROCLOR-1248	17.24	0.234	52481	BV	10
	17.42		37201	VV	11
	17.56		30205	VB	12
	18.04		54697	BV	13
	18.18		25720	VV	14
AROCLOR-1248-2	18.51	0.225	56595	VV	15
	18.83		14558	VE	16
	19.34		31794	VV	17
	19.46		65690	VV	18
AROCLOR-1248-3	19.62	0.231	78995	VE	19
	19.88		12240	EV	20
AROCLOR-1248-4	20.25	0.225	57082	VV	21
	20.44		41712	VV	22
	20.64		19138	VE	23
	21.25		15463	BV	24
	21.44		22839	VV	25
	21.61		13396	VV	26
AROCLOR-1248-5	21.80	0.224	37930	VB	27
	22.24		11498	BE	28
	22.71		31394	VE	29
	23.69		23711	VE	30
	24.50		7256	VV	31

Average result...0.228 UG/ML

Run Number..... 13 End of Report.

Run Number..... 14
Sample Name..... 0.4 UG/ML AR1248
Run Date..... 3-MAY-1997 02:35:41
Raw File..... 5_0502_014
Method Name..... 5_AR1248_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.4 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4 UG/ML AR1248 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_014 Analysis Date: 3-MAY-1997 02:35:41

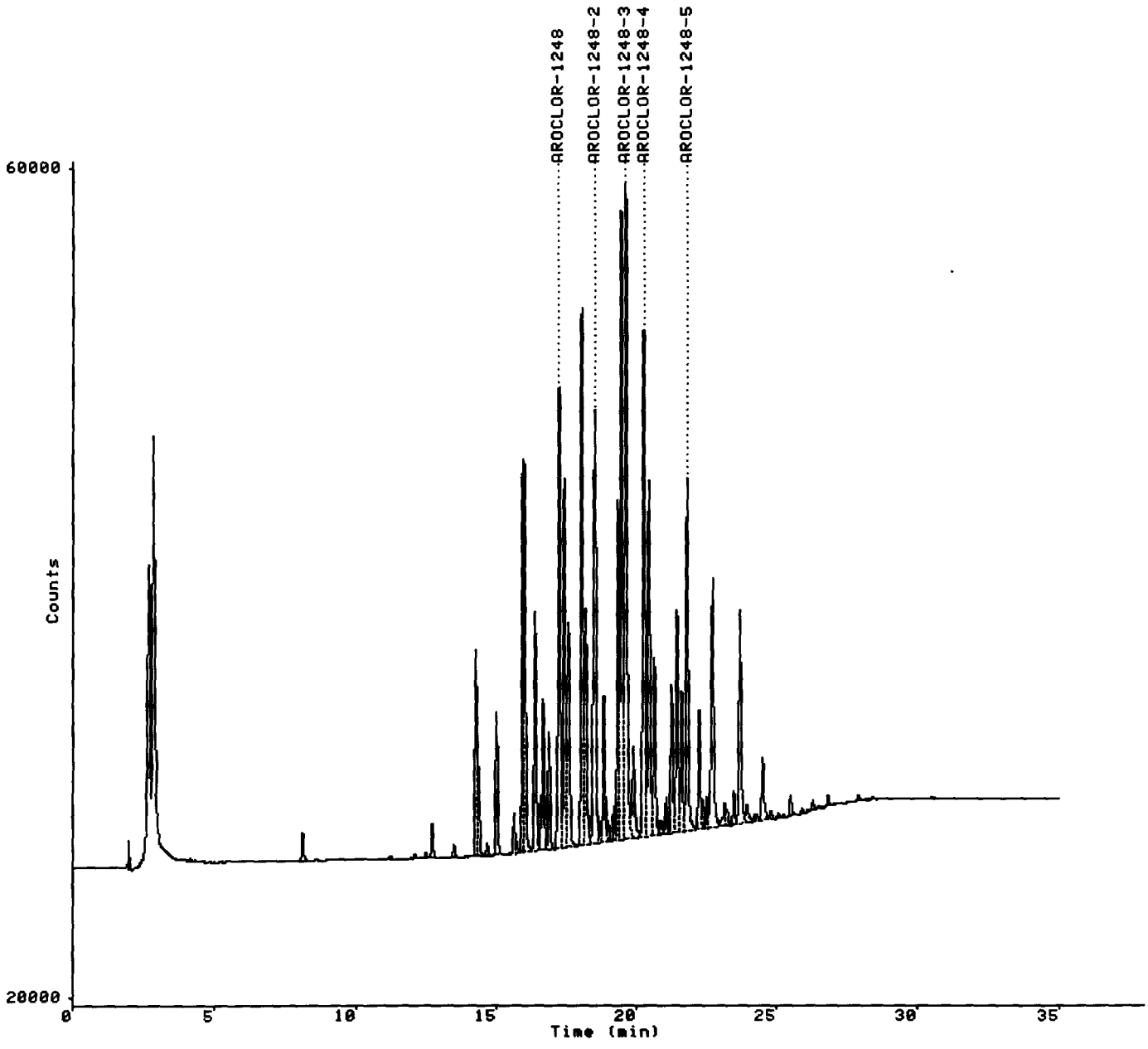
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	8.10		8300	BB	1
	12.69		4073	BB	2
	14.26		27945	BV	3
	14.34		8518	VV	4
	15.00		19006	BB	5
	15.62		4855	VV	6
	15.94		45548	BV	7
	15.99		43361	VV	8
	16.38		34327	VV	9
	16.66		22477	VV	10
	16.87		15320	VB	11
AROCLOR-1248	17.24	0.317	69184	BV	12
	17.42		49632	VV	13
	17.56		40677	VB	14
	18.04		73012	BV	15
	18.18		34374	VV	16
AROCLOR-1248-2	18.51	0.304	76374	VV	17
	18.83		19794	VE	18
	19.34		42560	VV	19
	19.46		87042	VV	20
AROCLOR-1248-3	19.62	0.313	105299	VE	21
	19.88		17117	EV	22
AROCLOR-1248-4	20.25	0.303	76803	VV	23
	20.44		55931	VV	24
	20.64		26276	VE	25
	21.06		4520	VV	26
	21.25		21024	VV	27
	21.44		30962	VV	28
	21.61		18350	VV	29
AROCLOR-1248-5	21.80	0.307	51606	VV	30
	22.24		16072	VE	31
	22.71		42020	VE	32
	23.48		4160	BV	33
	23.69		31631	VE	34
	24.50		9888	VV	35

Average result...0.309 UG/ML

Run Number..... 14 End of Report.

Run Number..... 15
Sample Name..... 0.5 UG/ML AR1248
Run Date..... 3-MAY-1997 03:18:06
Raw File..... 5_0502_015
Method Name..... 5_AR1248_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.5 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5 UG/ML AR1248 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_015 Analysis Date: 3-MAY-1997 03:18:06

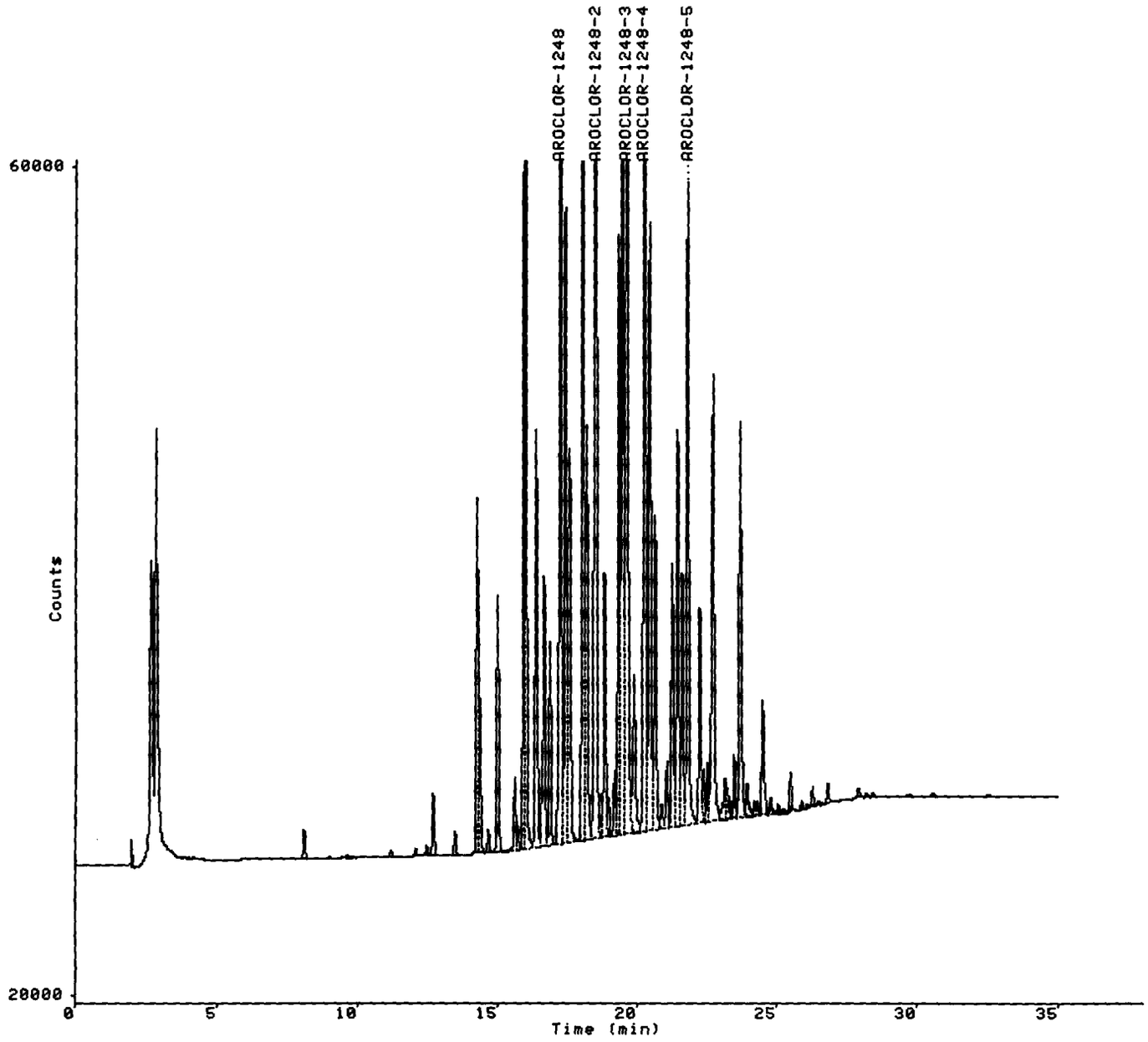
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	8.09		5812	BB	1
	12.69		7599	BB	2
	14.26		49637	BV	3
	14.34		15682	VV	4
	15.00		34805	BE	5
	15.61		9069	VV	6
	15.94		78598	BV	7
	15.98		80121	VV	8
	16.37		61194	VV	9
	16.66		41080	VV	10
	16.87		27560	VB	11
AROCLOR-1248	17.24	0.573	120794	BV	12
	17.42		87332	VV	13
	17.56		72586	VV	14
	18.04		129325	VV	15
	18.18		61251	VV	16
AROCLOR-1248-2	18.51	0.554	138224	VV	17
	18.83		35756	VE	18
	19.19		7260	VV	19
	19.33		76557	VV	20
	19.46		153949	VV	21
AROCLOR-1248-3	19.61	0.564	184894	VE	22
	19.88		29446	EV	23
AROCLOR-1248-4	20.25	0.554	139921	VV	24
	20.43		96702	VV	25
	20.64		46280	VE	26
	21.06		8736	VV	27
	21.25		38428	VV	28
	21.43		56639	VV	29
	21.61		33749	VV	30
AROCLOR-1248-5	21.80	0.559	93146	VV	31
	22.24		29577	VE	32
	22.38		5932	EV	33
	22.52		7321	VV	34
	22.70		75268	VE	35
	23.14		7627	EV	36
	23.22		4571	EB	37
	23.48		7956	BV	38
	23.69		58635	VE	39
	23.95		6252	EV	40
	24.50		18529	VV	41
	25.50		4935	BB	42

Average result...0.561 UG/ML

Run Number..... 15 End of Report.

Run Number..... 16
Sample Name..... 1.0 UG/ML AR1248
Run Date..... 3-MAY-1997 04:00:28
Raw File..... 5_0502_016
Method Name..... 5_AR1248_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



1.0 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0 UG/ML AR1248
Datafile: 5_0502_016

Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 04:00:28

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	8.09		5854	BB	1
	12.69		13951	BB	2
	13.47		5307	BB	3
	14.26		86115	BV	4
	14.34		28441	VV	5
	14.66		5737	VB	6
	14.99		62360	BE	7
	15.61		16616	VV	8
	15.72		4572	VV	9
	15.94		136522	VV	10
	15.98		143819	VV	11
	16.37		107249	VV	12
	16.66		73845	VV	13
	16.86		48554	VV	14
AROCLOR-1248	17.24	0.988	204330	VV	15
	17.41		151063	VV	16
	17.55		126970	VV	17
	18.04		226134	VV	18
	18.18		108048	VV	19
AROCLOR-1248-2	18.50	1.00	249783	VE	20
	18.72		4143	EV	21
	18.83		64349	VE	22
	18.97		7579	EV	23
	19.19		14250	VV	24
	19.33		136836	VV	25
	19.45		268539	VV	26
AROCLOR-1248-3	19.61	0.995	321927	VE	27
	19.88		51284	EV	28
AROCLOR-1248-4	20.25	1.01	253398	VV	29
	20.43		165920	VV	30
	20.63		80581	VE	31
	20.87		7356	EV	32
	21.06		16631	VV	33
	21.25		68624	VV	34
	21.43		102198	VV	35
	21.60		60962	VV	36
AROCLOR-1248-5	21.79	1.00	166190	VV	37
	22.24		53894	VE	38
	22.38		10959	EV	39
	22.52		13721	VV	40
	22.70		133563	VE	41
	23.14		14532	EV	42
	23.22		8483	EB	43
	23.48		14619	BV	44
	23.69		106900	VE	45
	23.95		11483	EV	46
	24.49		34085	VV	47
	24.80		4261	VB	48
	25.50		9346	BB	49
	26.29		5108	VV	50

Run Number..16 Page 3

Sample ID: 1.0 UG/ML AR1248 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_016 Analysis Date: 3-MAY-1997 04:00:28

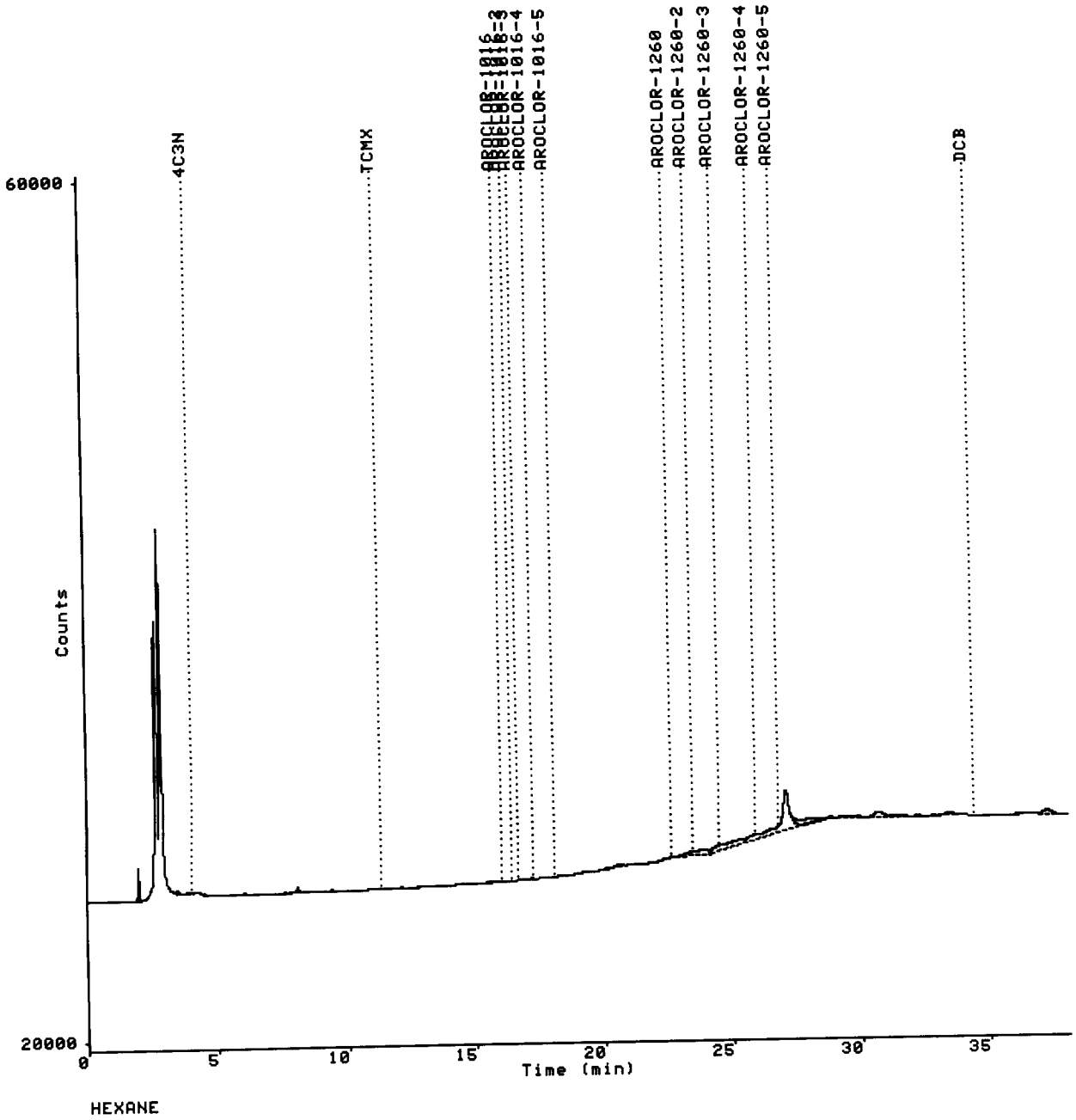
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	26.83		5138	BE	51

Average result...0.999 UG/ML

Run Number..... 16 End of Report.

Run Number..... 27
Sample Name..... HEXANE
Run Date..... 3-MAY-1997 11:46:48
Raw File..... 5_0502_027
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

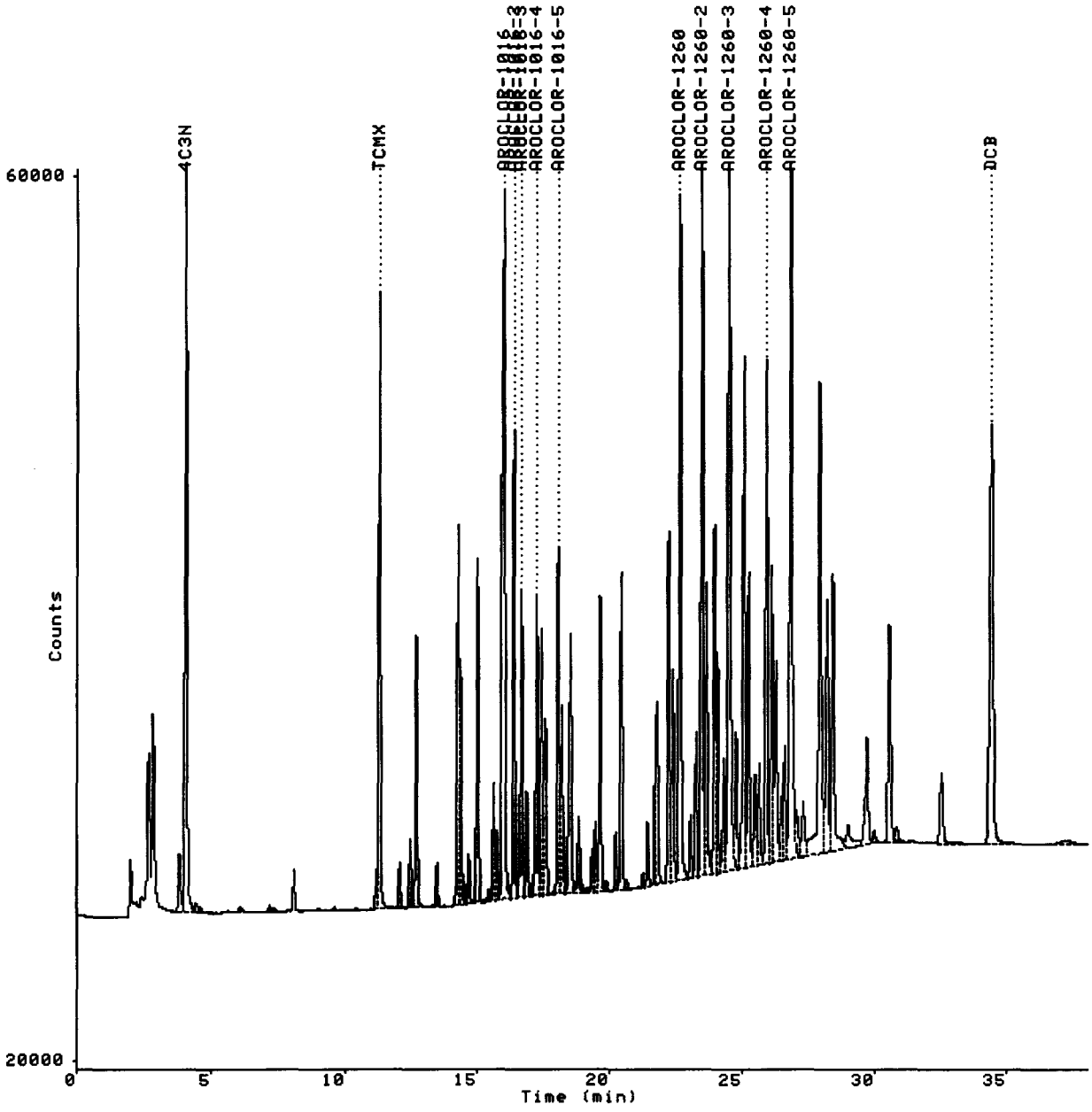
Sample ID: HEXANE
Datafile: 5_0502_027
Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 11:46:48

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
AROCLOR-1260-2	23.57	0.00398	15514	BB	1
AROCLOR-1260-5	27.12	0.421	86513	BE	2
	28.03		13679	EV	3
	30.74		5951	VV	4

Run Number..... 27 End of Report.

Run Number..... 28
Sample Name..... 0.4UG/ML AR1660
Run Date..... 3-MAY-1997 12:29:10
Raw File..... 5_0502_028
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.4UG/ML AR1660

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1660 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_028 Analysis Date: 3-MAY-1997 12:29:10

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	3.82		15468	BV	1
4C3N	4.06	0.0567	176408	VE	2
	8.10		8354	VE	3
	11.20		6764	BV	4
TCMX	11.31	0.0243	123939	VE	5
	12.07		10319	BB	6
	12.47		14204	BV	7
	12.69		59975	VB	8
	13.48		9464	VB	9
	14.26		85802	BV	10
	14.35		50528	VV	11
	14.67		12223	VB	12
	15.00		78242	BE	13
	15.62		24880	VV	14
	15.73		14255	VV	15
AROCLOR-1016	15.98	0.501	247664	VV	16
AROCLOR-1016-2	16.37	0.500	106474	VV	17
AROCLOR-1016-3	16.67	0.496	71530	VV	18
	16.87		23665	VB	19
AROCLOR-1016-4	17.24	0.505	74565	BV	20
	17.42		59328	VV	21
	17.56		52189	VB	22
AROCLOR-1016-5	18.04	0.497	78758	VV	23
	18.19		47715	VV	24
	18.51		79815	VV	25
	18.83		18123	VE	26
	19.34		9021	VV	27
	19.46		15711	VV	28
	19.64		70804	VE	29
	20.23		14047	BV	30
	20.43		73517	VE	31
	21.44		13925	VV	32
	21.74		28817	VV	33
	21.79		42243	VV	34
	22.22		78858	VV	35
	22.38		52194	VV	36
AROCLOR-1260	22.65	0.470	172027	VV	37
	23.06		15672	VV	38
	23.26		34450	VV	39
AROCLOR-1260-2	23.48	0.463	177447	VV	40
	23.66		71838	VV	41
	23.95		78815	VV	42
	24.06		49665	VV	43
	24.31		27722	VV	44
AROCLOR-1260-3	24.50	0.452	227034	VE	45
	24.78		33499	EV	46
	25.07		126358	VV	47
	25.25		69814	VV	48
	25.50		26085	VV	49
	25.65		25800	VV	50

Sample ID: 0.4UG/ML AR1660 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_028 Analysis Date: 3-MAY-1997 12:29:10

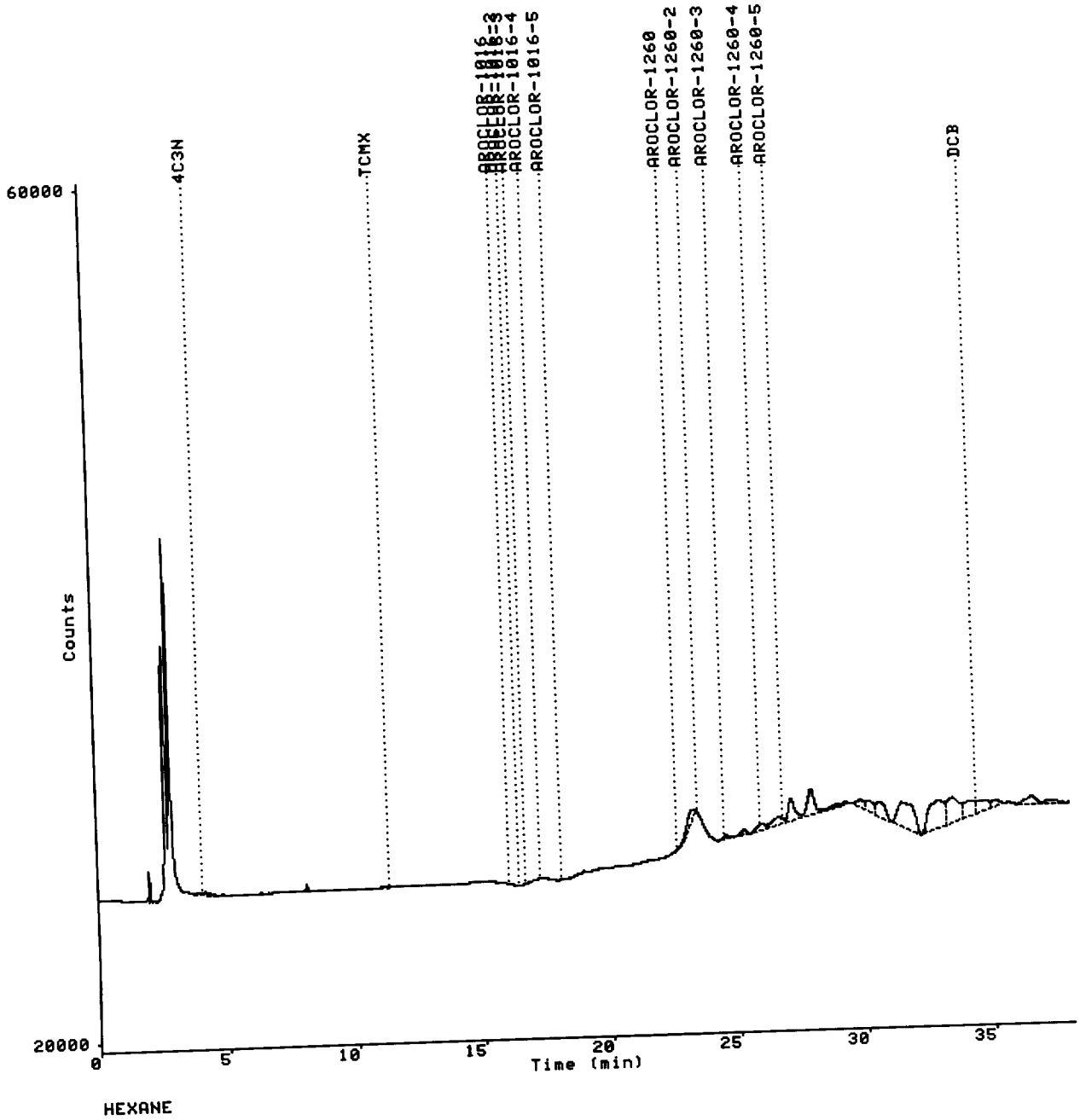
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
AROCLOR-1260-4	25.91	0.449	117639	VV	51
	26.11		71719	VV	52
	26.28		57799	VV	53
	26.50		16072	VV	54
	26.61		28394	VV	55
AROCLOR-1260-5	26.83	0.435	260394	VE	56
	27.08		13925	EV	57
	27.32		18271	EV	58
	27.93		166809	VV	59
	28.22		69688	VV	60
	28.44		89022	VE	61
	29.02		16190	EV	62
	29.73		38598	VE	63
	30.58		67749	BE	64
	30.86		6112	EV	65
	32.54		24777	BE	66
DCB	34.40	0.0231	176454	BB	67
	37.22		5789	BB	68

AR1016 average result...0.500
AR1260 average result...0.454

Run Number..... 28 End of Report.

Run Number..... 39
Sample Name..... HEXANE
Run Date..... 3-MAY-1997 20:15:08
Raw File..... 5_0502_039
Method Name..... 5_AR1660_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

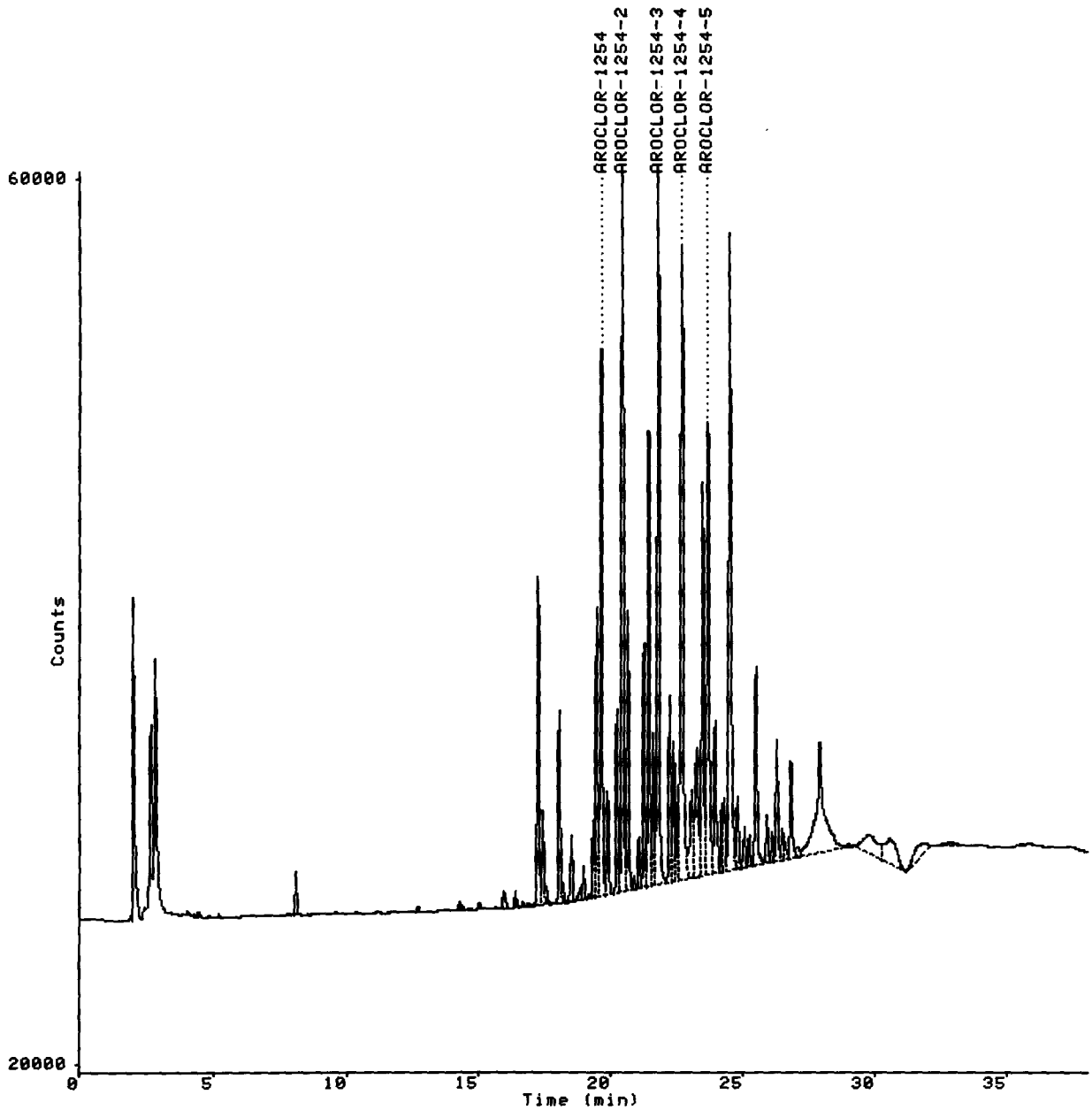
Sample ID: HEXANE
Datafile: 5_0502_039
Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Analysis Date: 3-MAY-1997 20:15:08

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
AROCLOR-1260	23.29	-0.00840	7083	BB	1
AROCLOR-1260-4	26.01	-0.00186	6179	BV	2
AROCLOR-1260-5	26.66	-0.00208	11764	VV	3
	27.17		19908	VV	4
	27.96		24330	VE	5
	29.89		5279	BV	6
	30.20		10482	VV	7
	30.67		15837	VB	8
	31.61		51784	BB	9
	33.02		56596	BV	10
	33.49		40361	VV	11
	34.21		22343	VV	12
DCB	34.59	-3.27E-05	18691	VV	13
	35.20		6133	VB	14
	36.59		10040	BV	15

Run Number..... 39 End of Report.

Run Number..... 40
Sample Name..... 0.4UG/ML AR1254
Run Date..... 3-MAY-1997 20:57:31
Raw File..... 5_0502_040
Method Name..... 5_AR1254_0502
Method Type..... Linear

HP5890 1A 30M RTX5 2uL INJ METHOD 8081



0.4UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1254 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_040 Analysis Date: 3-MAY-1997 20:57:31

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	8.10		8534	VB	1
	15.96		5983	VB	2
	16.39		3832	BV	3
	17.25		75880	BV	4
	17.42		22512	VE	5
	17.55		3727	EB	6
	18.05		42848	BE	7
	18.19		3572	EB	8
	18.52		16162	BB	9
	18.84		3764	BV	10
	18.97		7478	VV	11
	19.34		16013	VV	12
	19.47		65543	VV	13
AROCLOR-1254	19.64	0.468	133450	VV	14
	19.89		23791	VV	15
	20.23		44470	VV	16
AROCLOR-1254-2	20.44	0.464	181086	VV	17
	20.64		65891	VE	18
	20.89		3277	EV	19
	21.07		11268	VV	20
	21.26		55508	VV	21
	21.44		104625	VV	22
	21.61		34059	VV	23
AROCLOR-1254-3	21.80	0.445	198404	VV	24
	22.24		44440	VV	25
	22.39		33437	VV	26
	22.53		16312	VV	27
AROCLOR-1254-4	22.70	0.454	215282	VE	28
	23.07		39582	EV	29
	23.26		45499	EV	30
	23.48		100063	VV	31
AROCLOR-1254-5	23.68	0.473	138064	VV	32
	23.96		43913	VV	33
	24.22		14784	VV	34
	24.31		15947	VV	35
	24.50		180937	VE	36
	24.81		17707	EV	37
	25.07		11173	EV	38
	25.25		7816	VV	39
	25.50		53139	VV	40
	25.92		12275	VV	41
	26.12		7442	VV	42
	26.30		30240	VV	43
	26.50		8575	VV	44
	26.61		4390	VV	45
	26.84		25576	VE	46
	27.08		4533	EV	47
	27.94		112308	VE	48
	29.80		34538	BV	49
	30.56		36829	VB	50

Run Number..40 Page 3

Sample ID: 0.4UG/ML AR1254 Instrument: HP5890 1A 30M RTX5 2uL INJ METHOD 80
Datafile: 5_0502_040 Analysis Date: 3-MAY-1997 20:57:31

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	31.88		14561	BB	51
	32.90		2513	BB	52

Average result...0.461 UG/ML

Run Number..... 40 End of Report.

Project No. 1167
Book No. TITLE

ECOLOGY & ENVIRONMENT, INC
ANALYTICAL SERVICES CENTER
GAS CHROMATOGRAPHY LAB
INSTRUMENT RUNLOG

Notebook # 1167 Page# 62

Analytical Method: ~~R/PCB screens~~ PCB's 5/6/97
Instrument ID: HP5890#1
Operator: R. Neary Initials: RN Date: 05/02/97

GC Temperature Information

Initial Oven Temp: 150 C
Initial Oven Hold: 1.0 Min
Oven Temp. Ramp: 5C/Min
Final Oven Temp: 280 C
Final Oven Hold: 11.0 Min
Injector Temp: 200 C
Detector Temp: 300 C
Injection Vol: 2.0 uL
Detector A,B :ECD,ECD
Range: 2,2
Attn : 2,2

FLOW(He) 4.0mL/Min

Column Information

Column 1 : RTX-5 Channel 5
5%-Diphenyl - 95% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 1.0 uM

Column 2 : RTX-35 Channel 6
35%-Diphenyl - 65% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 0.50 uM

Test Performed: ~~R/PCB~~ PCB's 5/6/97 Job #860
Method Number: 8081
Date: 05/02/97
Work Performed By: R Neary

Ch. 6 Confirmation

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
	HEXANE	1	5/5_0502_001	1	BHS 10	RN
	0.1UG/ML AR1016/1260	2	5/5_0502_002	1	445-160-1	
	0.2UG/ML AR1016/1260	3	5/5_0502_003	1	445-160-2	
	0.4UG/ML AR1016/1260	4	5/5_0502_004	1	445-160-3	
	0.5UG/ML AR1016/1260	5	5/5_0502_005	1	445-160-4	
	1.0UG/ML AR1016/1260	6	5/5_0502_006	1	445-160-5	
	0.1UG/ML AR1254	7	5/5_0502_007	1	445-160-7	
	0.2UG/ML AR1254	8	5/5_0502_008	1	445-160-8	
	0.4UG/ML AR1254	9	5/5_0502_009	1	445-160-9	
	0.5UG/ML AR1254	10	5/5_0502_010	1	445-160-10	
	1.0UG/ML AR1254	11	5/5_0502_011	1	445-160-11	
	0.1 UG/ML AR1248	12	5/5_0502_012	1	445-163-1	
	0.2 UG/ML AR1248	13	5/5_0502_013	1	445-163-2	
	0.4 UG/ML AR1248	14	5/5_0502_014	1	445-163-3	
	0.5 UG/ML AR1248	15	5/5_0502_015	1	445-163-4	
	1.0 UG/ML AR1248	16	5/5_0502_016	1	445-163-5	
5700-860	SLCS1164-132-1 2X	17	5/5_0502_017	2	48, 4,504 (400.1/80.3)	
1	SBLK1164-132-2 1X	18	5/5_0502_018	1	1	

Witnessed & Understood by me, [signature] Date 5/6/97
Invented by Date
Recorded by

Test Performed: PCB
Method Number: 8081
Date: 05/03/97
Work Performed By: A. Nagy

GC PARAMETER REF: Pg 62

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
9700.160	65106 5X	19	5/5_0502_019	5	H_2, H_2O (200ul/ml)	
	65107 10X	20	5/5_0502_020	10	(100ul/ml)	
	65108 1X	21	5/5_0502_021	1		
	65109 10X	22	5/5_0502_022	10	(100ul/ml)	
	65110 1X	23	5/5_0502_023	1		
	65111 20X	24	5/5_0502_024	20	(50ul/ml)	
	65112 10X	25	5/5_0502_025	10	(100ul/ml)	
	65112 MS 10X	26	5/5_0502_026	10		
	HEXANE	27	5/5_0502_027	1	BHS10	
	0.4UG/ML AR1660	28	5/5_0502_028	1	YYS-160-3	
9700.160	65112 MSD 10X	29	5/5_0502_029	10	H_2, H_2O (100ul/ml)	
	65113 500X	30	5/5_0502_030	500	(100ul/ml)(100ul/ml)	
9700.157	SLCS1164-133-3 2X	31	5/5_0502_031	2	(400ul/mul)	
	SLCS1164-133-4 2X	32	5/5_0502_032	2		
	SBLK1164-133-5 1X	33	5/5_0502_033	1		
9700.157	SLCS1164-140-1 2X	34	5/5_0502_034	2	(400ul/mul)	
	SLCS1164-140-2 2X	35	5/5_0502_035	2		
	SBLK1164-140-3 1X	36	5/5_0502_036	2		
9700.157	65071 1X	37	5/5_0502_037	1		
	65072 1X	38	5/5_0502_038	1		
	HEXANE	39	5/5_0502_039	1	BHS10	
	0.4UG/ML AR1254	40	5/5_0502_040	1	YYS-160-9	
9700.157	65073 1X	41	5/5_0502_041	1	H_2, H_2O	
	65074 1X	42	5/5_0502_042	1		
	65075 1X	43	5/5_0502_043	1		
	64076 1X	44	5/5_0502_044	1		
	65077 1X	45	5/5_0502_045	1		
	65078 1X	46	5/5_0502_046	1		
	65079 1X	47	5/5_0502_047	1		
	65080 1X	48	5/5_0502_048	1		
	65081 1X	49	5/5_0502_049	1		
	65082 1X	50	5/5_0502_050	1		
	HEXANE	51	5/5_0502_051	1	BHS10	
	0.4UG/ML AR1248	52	5/5_0502_052	1	YYS-160-3	
9700.157	65083 1X	53	5/5_0502_053	1	H_2, H_2O	
	65084 1X	54	5/5_0502_054	1		
	65085 1X	55	5/5_0502_055	1		
	65086 1X	56	5/5_0502_056	1		
	65087 1X	57	5/5_0502_057	1		
	65088 1X	58	5/5_0502_058	1		
	65089 1X	59	5/5_0502_059	1		
	65090 1X	60	5/5_0502_060	1		
9700.158	65091 1X	61	5/5_0502_061	1		
	65092 1X	62	5/5_0502_062	1		
	HEXANE	63	5/5_0502_063	1	BHS10	
	0.4UG/ML AR1254	64	5/5_0502_064	1	YYS-160-9	

Witnessed & Understood by me,	Date	Invented by	Date	
Daniel Atherton	5/6/97	Recorded by		460

Project No.
Book No. 1167 TITLE

Test Performed: PCB
Method Number: 8081
Date: 05/04/97
Work Performed By: R. Neary

GC PARAMETER REF: pg 62

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
9700.558	65093 1X	65	5/5_0502_065	1	Hg, H2SO4	
	65094 1X	66	5/5_0502_066	1		
	65095 1X	67	5/5_0502_067	1		
	65096 1X	68	5/5_0502_068	1		
	65097 1X	69	5/5_0502_069	1		
	65098 1X	70	5/5_0502_070	1		
	65099 1X	71	5/5_0502_071	1		
	65100 1X	72	5/5_0502_072	1		
	65101 1X	73	5/5_0502_073	1		
	65102 1X	74	5/5_0502_074	1		
	HEXANE	75	5/5_0502_075	1	B4070	
	0.4UG/ML AR1660	76	5/5_0502_076	1	YD-160-3	

RN 5/6/97

461

To Page No.

Witnessed & Understood by me.	Date	Invented by	Date
Daniel [illegible]	5/6/97	Recorded by	

Project No.
Book No. 1167 TITLE

ECOLOGY & ENVIRONMENT, INC
ANALYTICAL SERVICES CENTER
GAS CHROMATOGRAPHY LAB
INSTRUMENT RUNLOG

Notebook # 1167 Page# 20

Analytical Method:
Instrument ID: HP5890 #1A+B
Operator: R Nancy Initials: R.N Date: 3/6/97

GC Temperature Information

Initial Oven Temp: 150 C
Initial Oven Hold: 1 Min
Oven Temp. Ramp: 5 C/Min
Final Oven Temp: 200 C
Final Oven Hold: 11 Min
Injector Temp: 200 C
Detector Temp: 300 C
Injection Vol: 2.0 uL
Detector FID : ECD
Range: 2,2
Attn : 2,2

FLOW(He) @ PSI 4.0 mL/Min

Column Information

Column 1 : RTX-5 (CH.5)
5%-Diphenyl - 95% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 1.0 uM

Column 2 : RTX-35 (CH.6)
35%-Diphenyl - 65% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 0.50 uM

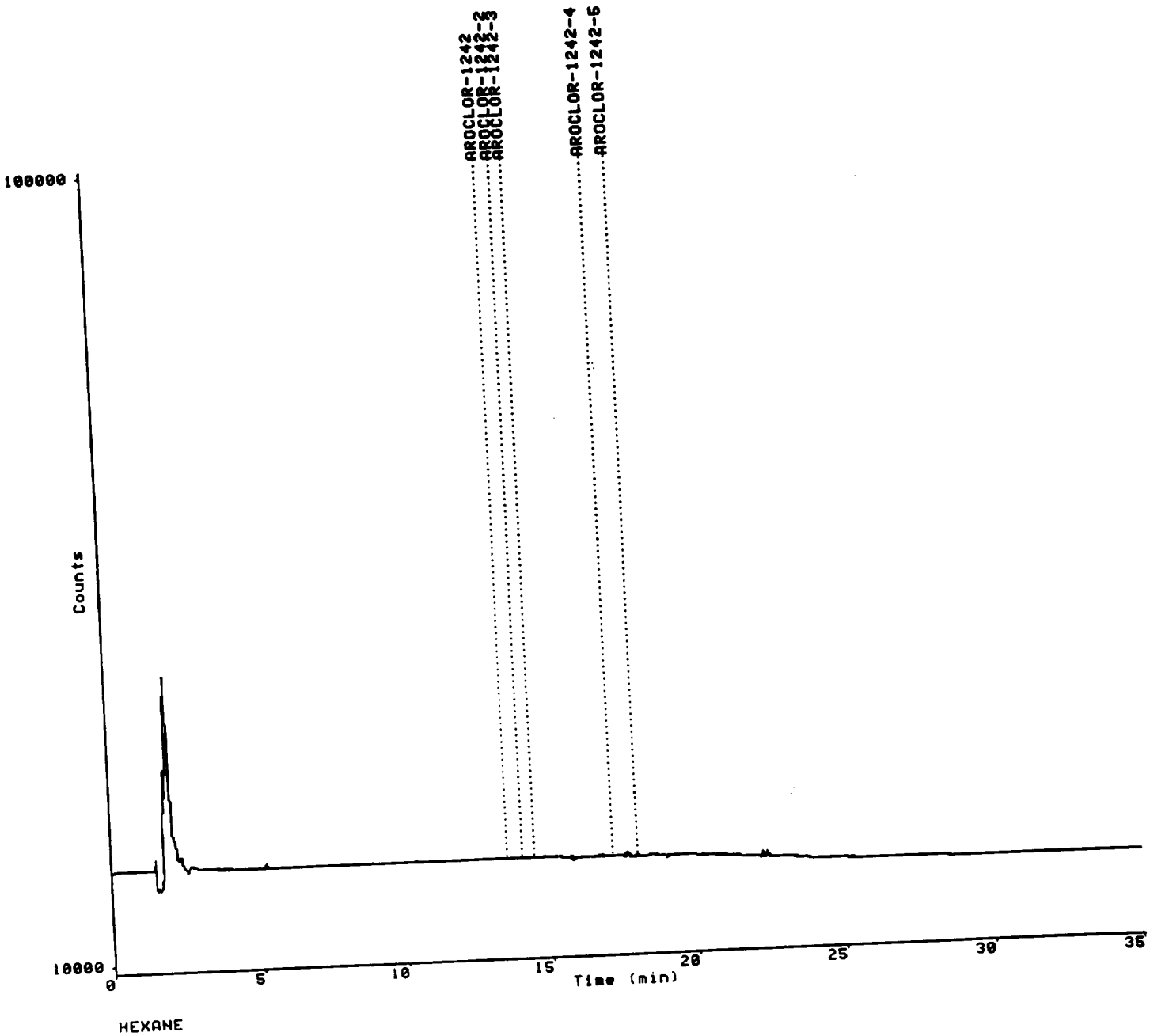
Test Performed: PCB MDL's
Method Number: 8081
Date: 3/6/97
Work Performed By: R. Nancy

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
	HEXANE	1	5/6_0306_001		BM563	RN
	0.10 AR1242	2	6_0306_002		445-157-11	
	0.20 AR1242	3	6_0306_003		445-157-12	
	0.40 AR1242	4	6_0306_004		445-157-13	
	0.50 AR1242	5	6_0306_005		445-157-14	
	1.0 AR1242	6	6_0306_006		445-157-15	
	SLCS1617 1X	7	6_0306_007		Hy	
	SLCS1618 1X	8	6_0306_008			
	SLCS1619 1X	9	6_0306_009			
	SLCS1620 1X	10	6_0306_010			
	SLCS1621 1X	11	6_0306_011			
	SLCS1622 1X	12	6_0306_012			
	SLCS1623 1X	13	6_0306_013			
	SLCS1624 1X	14	6_0306_014			
	0.4UG/ML AR1242	15	6_0306_015		445-157-13	
	WLCS1726 1X	16	6_0306_016		Hy	
	WLCS1727 1X	17	6_0306_017			
	WLCS1728 1X	18	6_0306_018			

Witnessed & Understood by me. Date 3/11/97
Invented by Date
Recorded by

Run Number..... 1
Sample Name..... HEXANE
Run Date..... 6-MAR-1997 11:47:57
Raw File..... 6_0306_001
Method Name..... 6_AR1242_0306
Method Type..... Linear

HP5890 1B 30M RTX35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

Run Number..1 Page 2

PCB ANALYSIS BY GC/ECD .

Sample ID: HEXANE Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Datafile: 6_0306_001 Analysis Date: 6-MAR-1997 11:47:57

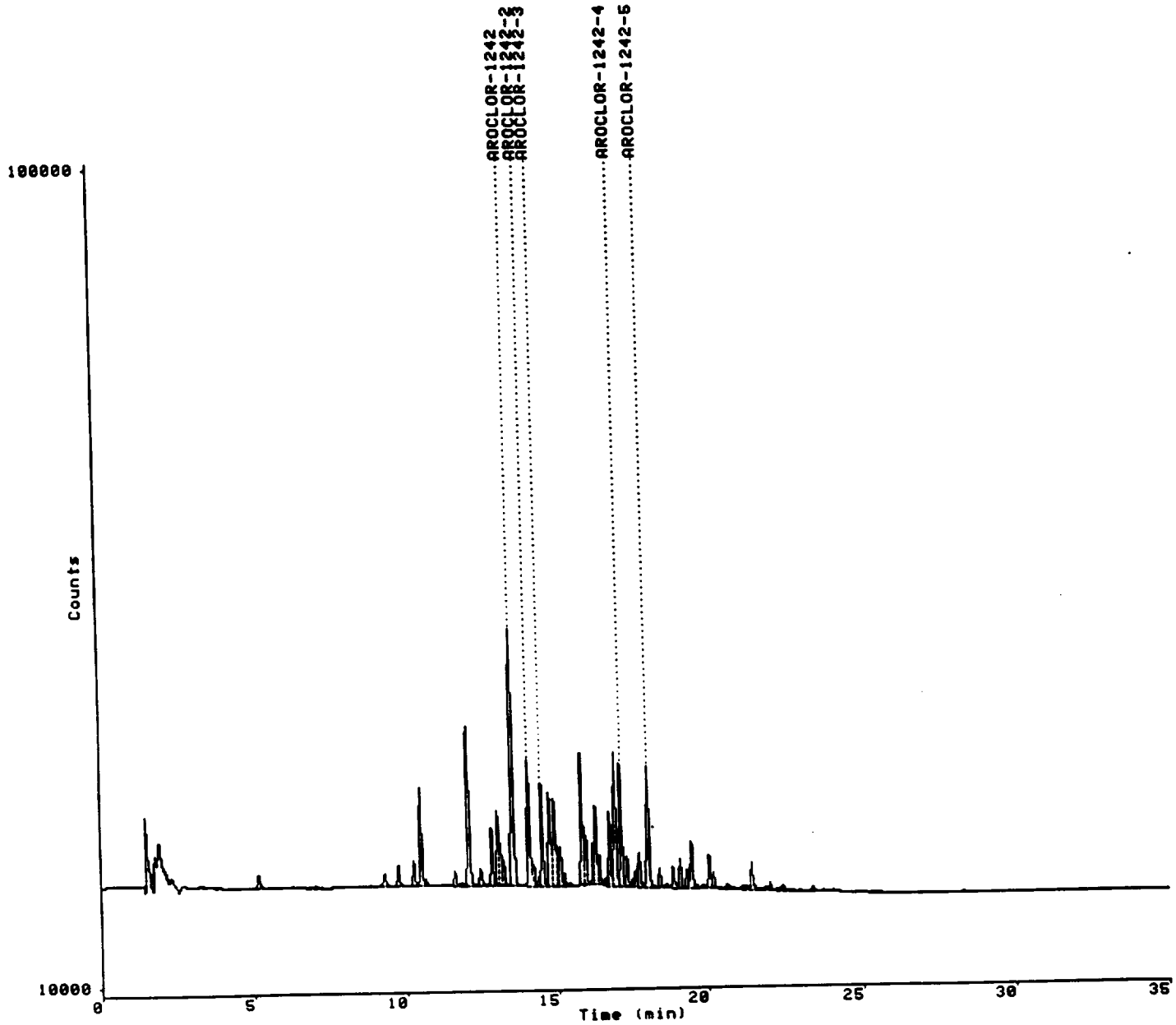
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.

Average result...-0.0314 UG/ML

Run Number..... 1 End of Report.

Run Number..... 2
Sample Name..... 0.10 AR1242
Run Date..... 6-MAR-1997 12:30:18
Raw File..... 6_0306_002
Method Name..... 6_AR1242_0306
Method Type..... Linear

HP5890 1B 30M RTX35 2uL INJ METHOD 8081



0.10 AR1242

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.10 AR1242 Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Datafile: 6_0306_002 Analysis Date: 6-MAR-1997 12:30:18

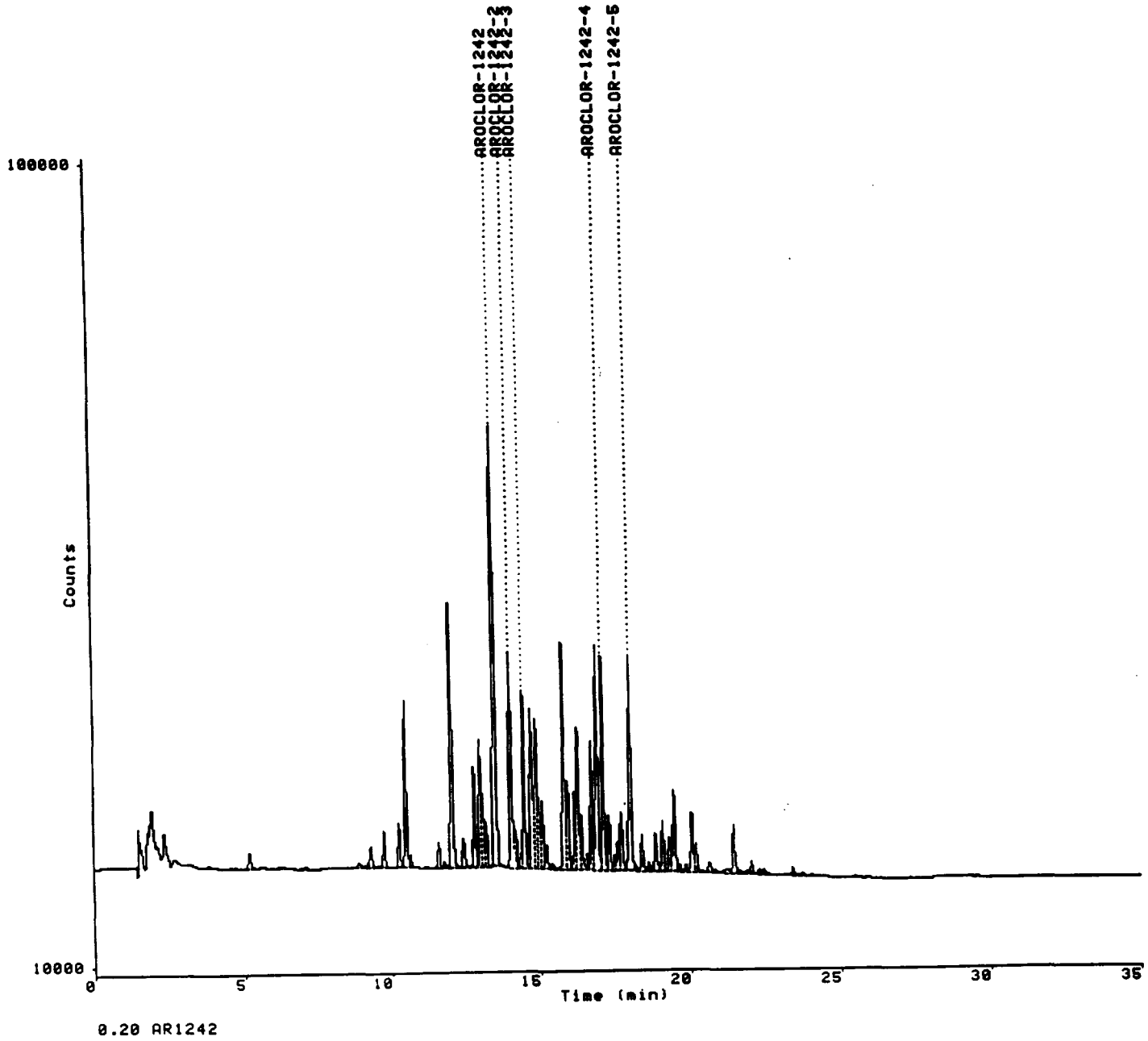
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		7933	BB	1
	9.29		6816	VB	2
	9.75		11305	BB	3
	10.27		13092	BV	4
	10.50		53915	VE	5
	11.62		7435	BV	6
	12.07		98884	VV	7
	12.47		10509	VE	8
	12.84		30585	VV	9
	13.04		40566	VV	10
	13.12		18210	VV	11
	13.24		11866	VB	12
AROCLOR-1242	13.54	0.0687	180104	BB	13
AROCLOR-1242-2	14.07	0.0700	77003	BE	14
	14.23		7415	EV	15
AROCLOR-1242-3	14.52	0.0724	51305	VV	16
	14.76		61893	VV	17
	14.93		49499	VV	18
	15.02		16495	VV	19
	15.12		19358	VV	20
	15.26		6618	VE	21
	15.83		78022	BV	22
	15.96		23917	VV	23
	16.20		19142	VV	24
	16.29		38999	VV	25
	16.40		12038	VB	26
	16.75		36793	VV	27
	16.94		82235	VV	28
AROCLOR-1242-4	17.14	0.0684	62772	VV	29
	17.33		15547	VV	30
	17.61		7438	VV	31
	17.74		17346	VV	32
AROCLOR-1242-5	18.05	0.0725	73437	VE	33
	18.41		10750	VV	34
	18.86		13028	BV	35
	19.09		14348	VV	36
	19.31		8753	VV	37
	19.48		28319	VE	38
	20.06		17580	VV	39
	20.19		8343	VB	40
	21.44		15197	VE	41

Average result...0.0704 UG/ML

Run Number..... 2 End of Report.

Run Number..... 3
Sample Name..... 0.20 AR1242
Run Date..... 6-MAR-1997 13:12:37
Raw File..... 6_0306_003
Method Name..... 6_AR1242_0306
Method Type..... Linear

HP5890 1B 30M RTX35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.20 AR1242
Datafile: 6_0306_003

Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Analysis Date: 6-MAR-1997 13:12:37

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		10680	BB	1
	8.87		5609	VV	2
	9.29		13015	VE	3
	9.74		21956	VB	4
	10.26		23943	BV	5
	10.50		94040	VE	6
	10.66		5178	EB	7
	11.61		13765	BV	8
	12.06		170320	VV	9
	12.46		18585	VE	10
	12.83		55036	VV	11
	13.03		70468	VV	12
	13.12		32972	VV	13
	13.24		21644	VB	14
AROCLOR-1242	13.54	0.194	317192	BB	15
AROCLOR-1242-2	14.07	0.195	137701	BE	16
	14.23		12895	EV	17
	14.39		5958	EV	18
AROCLOR-1242-3	14.51	0.192	92654	VV	19
	14.76		106675	VV	20
	14.92		87201	VV	21
	15.01		29250	VV	22
	15.11		34846	VV	23
	15.25		12454	VE	24
	15.82		138807	VV	25
	15.96		45610	VV	26
	16.19		38709	VV	27
	16.29		74912	VV	28
	16.40		27661	VV	29
	16.62		7332	VV	30
	16.74		68046	VV	31
	16.94		147666	VV	32
AROCLOR-1242-4	17.13	0.195	114930	VV	33
	17.33		30007	VV	34
	17.50		7525	VV	35
	17.61		14342	VV	36
	17.73		33302	VV	37
AROCLOR-1242-5	18.04	0.194	134514	VE	38
	18.41		20430	VV	39
	18.63		4238	VV	40
	18.85		23450	VV	41
	19.09		26313	VV	42
	19.30		16879	VV	43
	19.47		51874	VE	44
	19.86		4653	EV	45
	20.05		32930	VV	46
	20.18		16147	VE	47
	20.63		6807	VV	48
	21.26		4676	BV	49
	21.44		27781	VE	50

Run Number..3 Page 3

Sample ID: 0.20 AR1242
Datafile: 6_0306_003

Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Analysis Date: 6-MAR-1997 13:12:37

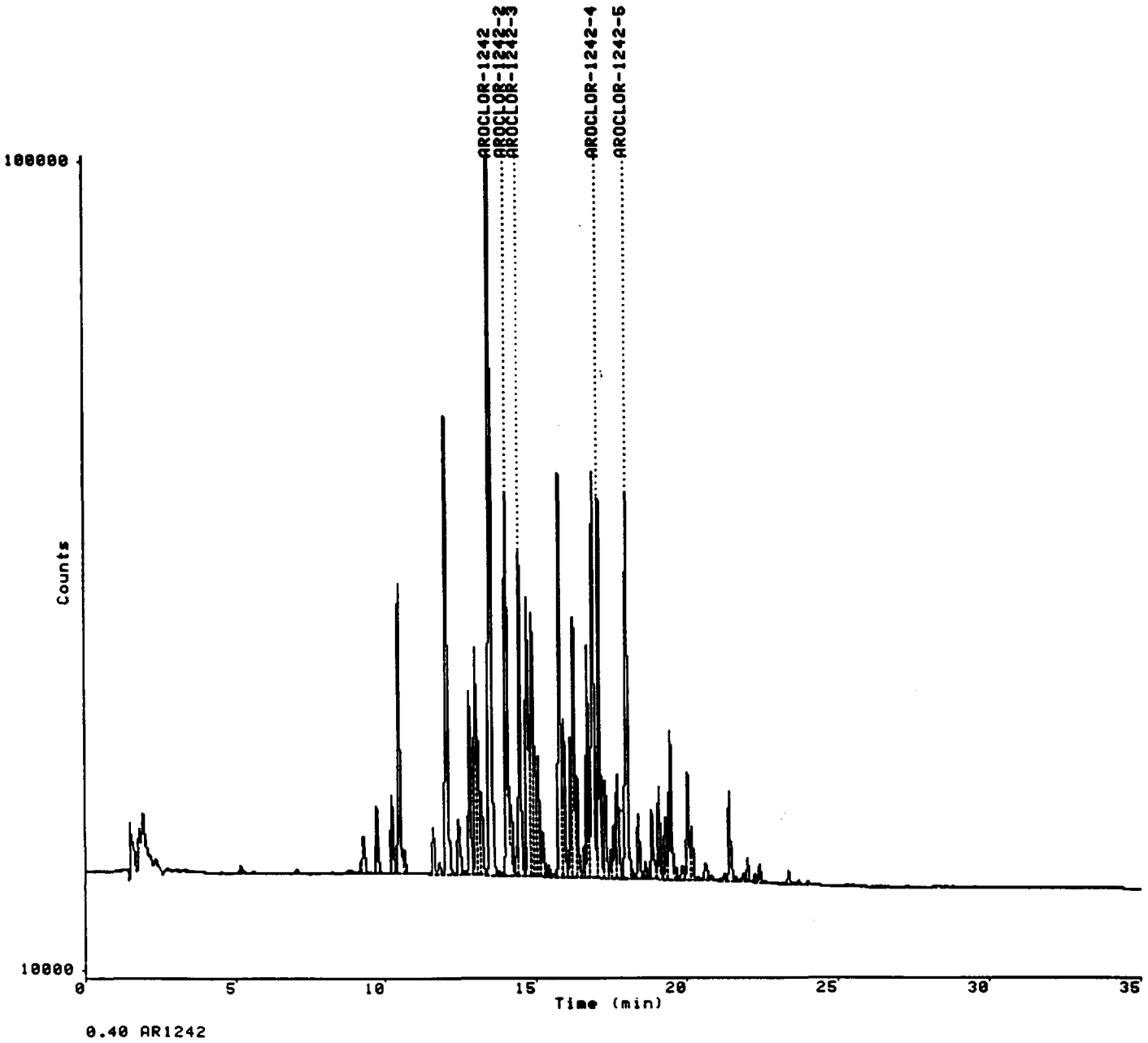
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	22.03		6244	VB	51
	23.41		5071	BV	52

Average result...0.194 UG/ML

Run Number..... 3 End of Report.

Run Number..... 4
Sample Name..... 0.40 AR1242
Run Date..... 6-MAR-1997 13:54:54
Raw File..... 6_0306_004
Method Name..... 6_AR1242_0306
Method Type..... Linear

HP5890 1B 30M RTX35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.40 AR1242 Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Datafile: 6_0306_004 Analysis Date: 6-MAR-1997 13:54:54

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		5978	BE	1
	9.20		5295	VV	2
	9.29		22452	VB	3
	9.74		37546	BB	4
	10.26		43068	BV	5
	10.50		164203	VE	6
	10.65		9678	EB	7
	11.61		25886	VV	8
	11.80		6824	VV	9
	12.06		294645	VV	10
	12.46		36045	VE	11
	12.83		101408	VV	12
	13.03		124877	VV	13
	13.12		59882	VV	14
	13.23		41379	VV	15
AROCLOR-1242	13.54	0.422	565999	VE	16
	13.78		4531	EV	17
AROCLOR-1242-2	14.06	0.421	247182	VE	18
	14.23		27678	EV	19
	14.39		12761	EV	20
AROCLOR-1242-3	14.51	0.420	171252	VV	21
	14.76		189916	VV	22
	14.92		155994	VV	23
	15.01		54097	VV	24
	15.11		64139	VV	25
	15.25		25380	VE	26
	15.43		7447	EV	27
	15.82		249411	VV	28
	15.96		84007	VV	29
	16.19		70843	VV	30
	16.28		138454	VV	31
	16.39		51412	VV	32
	16.62		14987	VV	33
	16.74		124326	VV	34
	16.93		264920	VV	35
AROCLOR-1242-4	17.13	0.420	207973	VV	36
	17.32		55475	VV	37
	17.50		14814	VV	38
	17.60		27233	VV	39
	17.73		61515	VV	40
AROCLOR-1242-5	18.04	0.418	246721	VE	41
	18.19		4572	EV	42
	18.41		38841	VV	43
	18.63		9572	VV	44
	18.85		46462	VV	45
	19.09		49986	VV	46
	19.30		32240	VV	47
	19.47		95731	VE	48
	19.64		6000	EV	49
	19.86		9632	EV	50

Sample ID: 0.40 AR1242 Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Datafile: 6_0306_004 Analysis Date: 6-MAR-1997 13:54:54

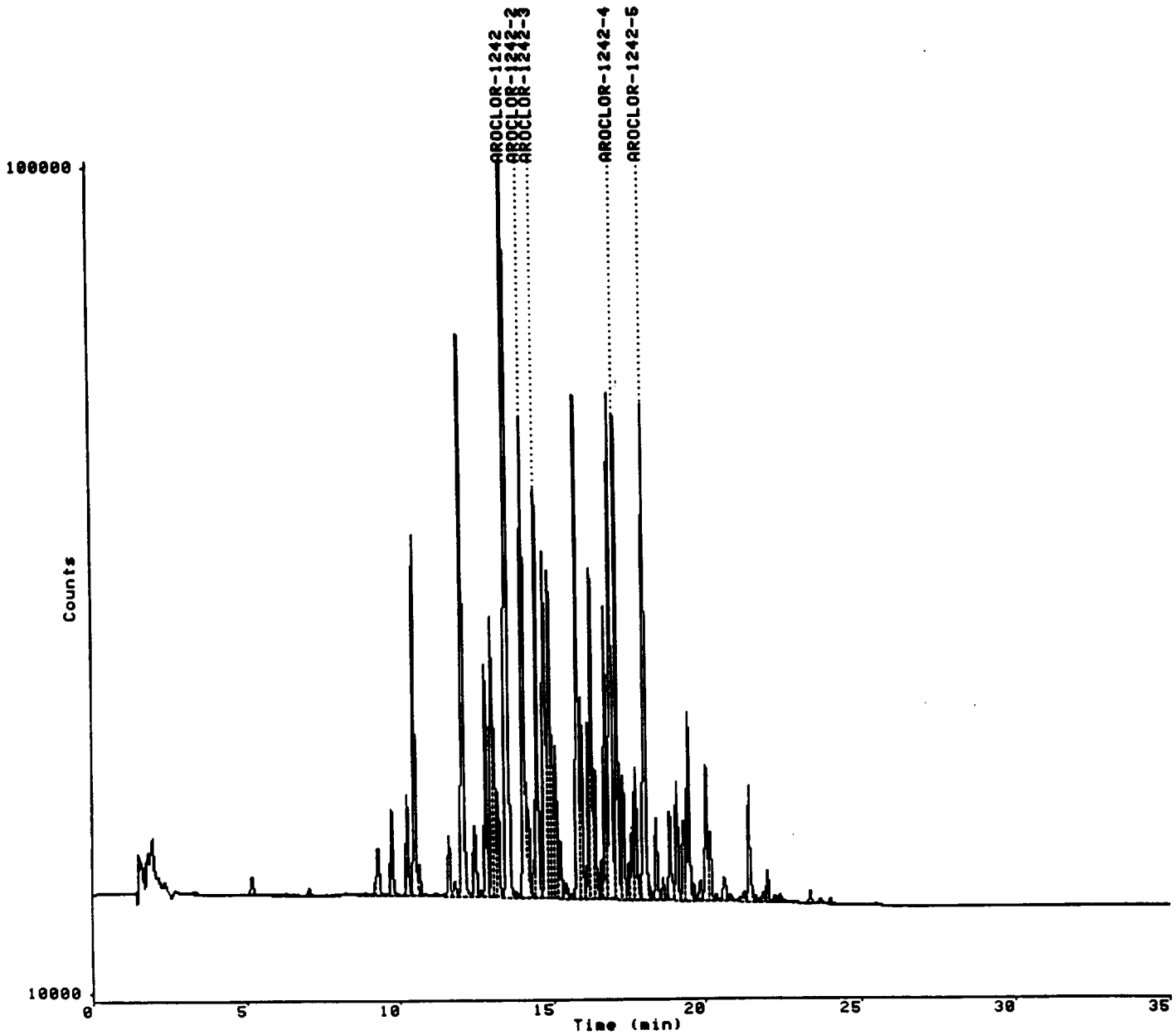
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	20.05		60663	VV	51
	20.18		30351	VE	52
	20.63		13346	VV	53
	21.27		4002	VV	54
	21.44		51625	VE	55
	21.89		4061	VV	56
	22.03		12066	VB	57
	22.28		4780	BV	58
	22.44		10208	VE	59
	23.41		7779	BV	60

Average result...0.420 UG/ML

Run Number..... 4 End of Report.

Run Number..... 5
Sample Name..... 0.50 AR1242
Run Date..... 6-MAR-1997 14:37:22
Raw File..... 6_0306_005
Method Name..... 6_AR1242_0306
Method Type..... Linear

HP5890 1B 30M RTX35 2uL INJ METHOD 8081



0.50 AR1242

473

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.50 AR1242 Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Datafile: 6_0306_005 Analysis Date: 6-MAR-1997 14:37:22

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		11325	BB	1
	7.07		4541	VB	2
	9.20		6944	VV	3
	9.29		28466	VE	4
	9.74		47755	VB	5
	10.26		53108	BV	6
	10.50		199276	VE	7
	10.65		13098	EB	8
	11.61		31920	VV	9
	11.80		8486	VV	10
	12.06		354913	VV	11
	12.46		44398	VE	12
	12.83		124536	VV	13
	13.03		152382	VV	14
	13.12		73496	VV	15
	13.23		50892	VV	16
AROCLOR-1242	13.54	0.540	694706	VE	17
	13.78		5086	EV	18
AROCLOR-1242-2	14.06	0.536	303033	VE	19
	14.23		33927	EV	20
	14.39		15483	EV	21
AROCLOR-1242-3	14.51	0.538	211679	VV	22
	14.76		228361	VV	23
	14.92		189228	VV	24
	15.01		66106	VV	25
	15.11		78337	VV	26
	15.25		30218	VV	27
	15.43		9706	VV	28
	15.82		302972	VV	29
	15.96		102752	VV	30
	16.19		86409	VV	31
	16.28		170885	VV	32
	16.40		63435	VV	33
	16.62		18559	VV	34
	16.74		153378	VV	35
	16.93		325105	VV	36
AROCLOR-1242-4	17.13	0.541	257483	VV	37
	17.33		67746	VV	38
	17.50		18052	VV	39
	17.61		33641	VV	40
	17.73		75482	VV	41
AROCLOR-1242-5	18.04	0.537	306698	VE	42
	18.18		4908	EV	43
	18.41		47103	VV	44
	18.63		11286	VV	45
	18.85		55777	VV	46
	19.09		61279	VV	47
	19.30		39976	VV	48
	19.47		118828	VE	49
	19.64		7573	EV	50

Run Number..5 Page 3

Sample ID: 0.50 AR1242 Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Datafile: 6_0306_005 Analysis Date: 6-MAR-1997 14:37:22

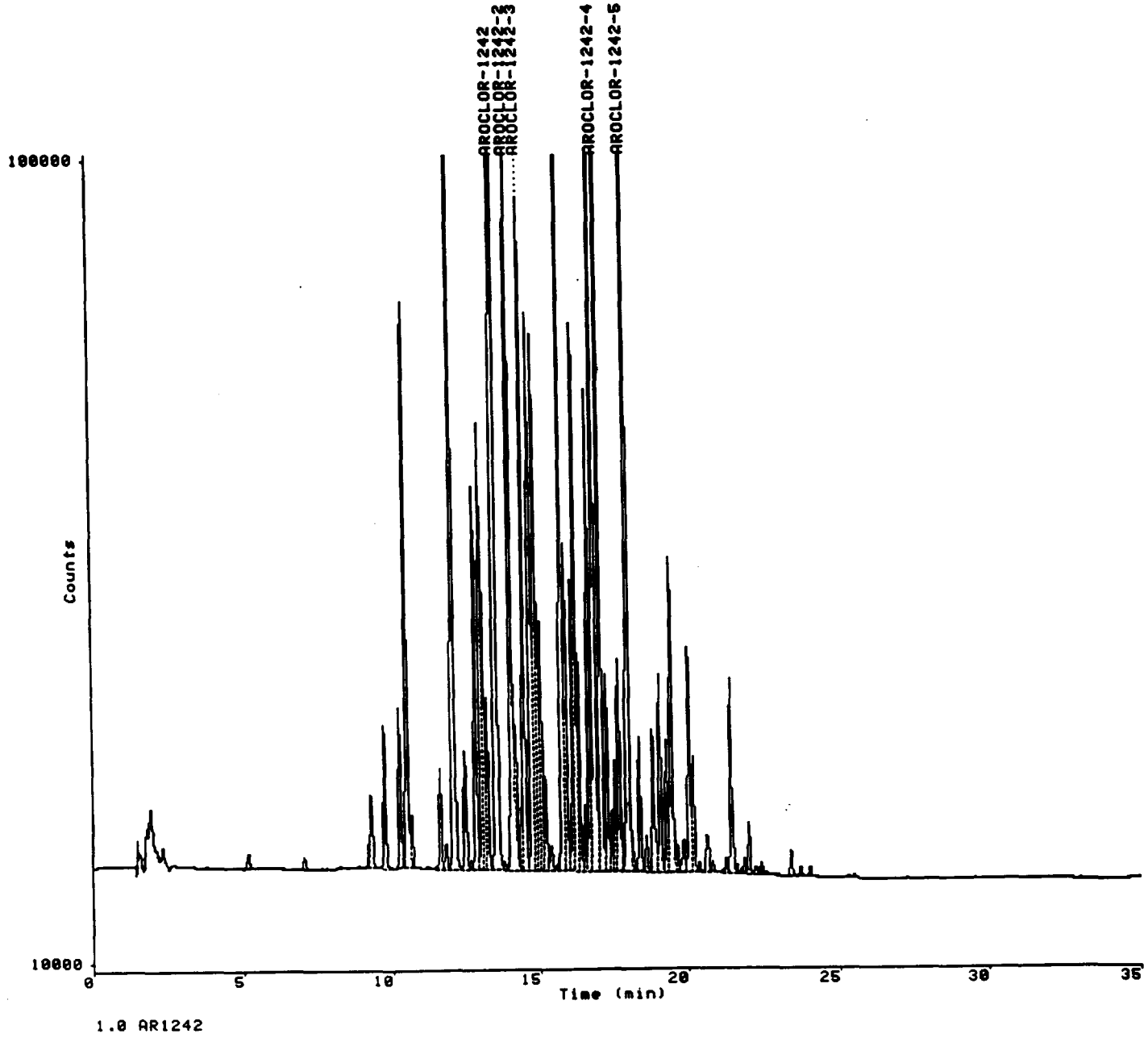
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	19.86		12062	EV	51
	20.05		75536	VV	52
	20.18		37301	VE	53
	20.63		16731	VV	54
	21.27		6248	BV	55
	21.44		64500	VE	56
	21.89		4625	VV	57
	22.03		15262	VV	58
	22.28		4371	VV	59
	22.44		4876	VE	60
	23.41		7108	BV	61

Average result...0.538 UG/ML

Run Number..... 5 End of Report.

Run Number..... 6
Sample Name..... 1.0 AR1242
Run Date..... 6-MAR-1997 15:20:02
Raw File..... 6_0306_006
Method Name..... 6_AR1242_0306
Method Type..... Linear

HP5890 1B 30M RTX35 2uL INJ METHOD 8081



1.0 AR1242

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0 AR1242
Datafile: 6_0306_006

Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Analysis Date: 6-MAR-1997 15:20:02

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		9932	BB	1
	7.06		8410	BB	2
	9.20		12057	BV	3
	9.28		46469	VB	4
	9.74		81828	BB	5
	10.26		90088	BV	6
	10.49		329509	VE	7
	10.65		21277	EB	8
	11.61		55800	VV	9
	11.80		14829	VV	10
	12.06		582929	VV	11
	12.46		78379	VE	12
	12.83		215566	VV	13
	13.03		253442	VV	14
	13.11		125495	VV	15
	13.23		88560	VV	16
AROCLOR-1242	13.53	0.976	1171500	VE	17
	13.78		6747	EV	18
AROCLOR-1242-2	14.06	0.977	516761	VE	19
	14.22		53641	EV	20
	14.39		26865	EV	21
AROCLOR-1242-3	14.50	0.977	363231	VV	22
	14.75		380624	VV	23
	14.92		318856	VV	24
	15.00		111387	VV	25
	15.11		132480	VV	26
	15.24		51729	VV	27
	15.43		16297	VV	28
	15.82		507059	VV	29
	15.96		176126	VV	30
	16.19		148558	VV	31
	16.28		297042	VV	32
	16.39		109461	VV	33
	16.61		32729	VV	34
	16.74		260672	VV	35
	16.93		548335	VV	36
AROCLOR-1242-4	17.13	0.976	436982	VV	37
	17.32		114558	VV	38
	17.50		31004	VV	39
	17.60		57883	VV	40
	17.73		127684	VV	41
AROCLOR-1242-5	18.04	0.978	527946	VE	42
	18.18		7519	EV	43
	18.40		80822	VV	44
	18.62		19766	VV	45
	18.85		97287	VV	46
	19.08		106516	VV	47
	19.30		70287	VV	48
	19.47		204166	VE	49
	19.63		13252	EV	50

477

Sample ID: 1.0 AR1242 Instrument: HP5890 1B 30M RTX35 2uL INJ METHOD 8
Datafile: 6_0306_006 Analysis Date: 6-MAR-1997 15:20:02

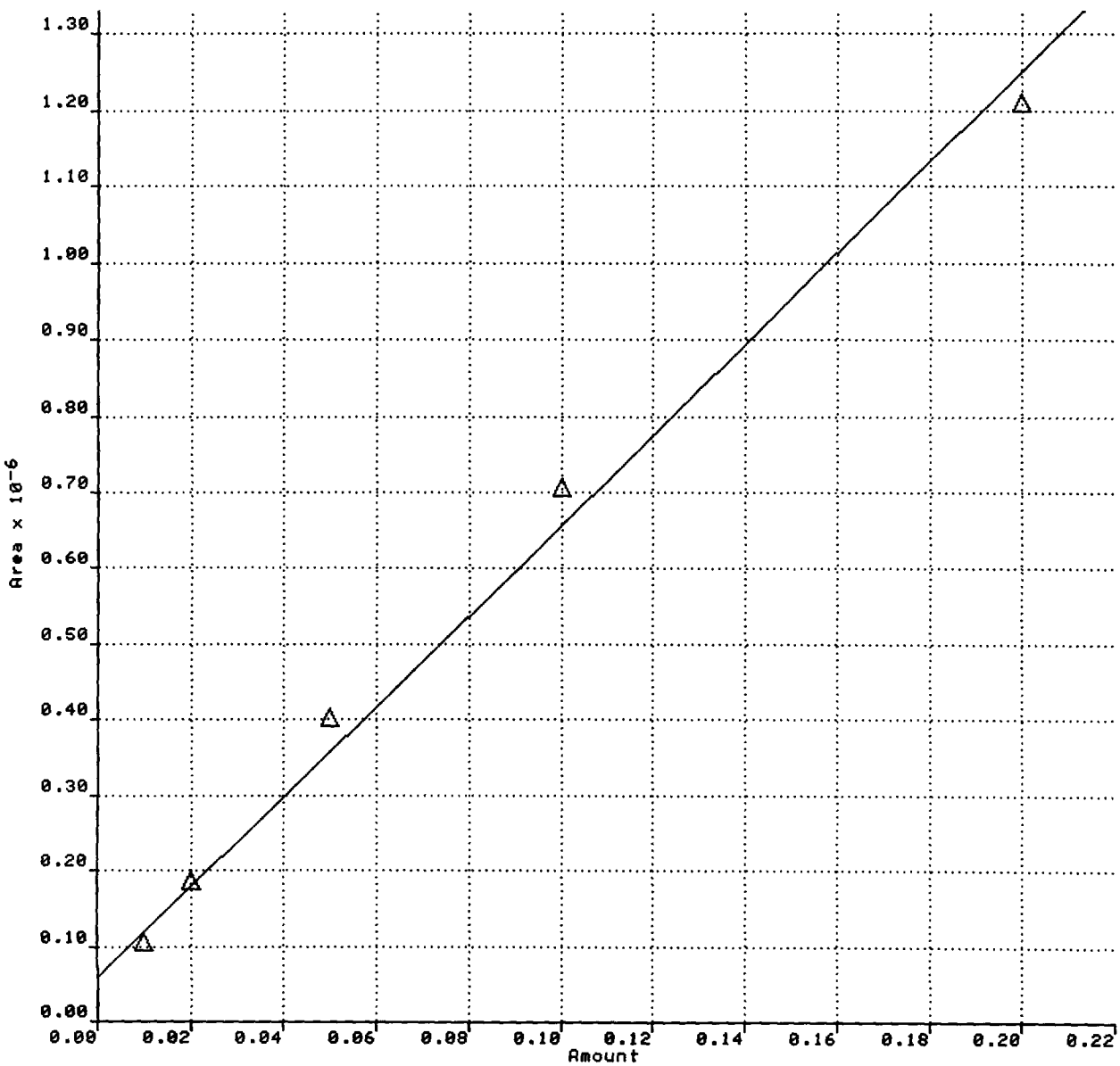
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	19.86		21698	EV	51
	20.05		129400	VV	52
	20.18		65670	VE	53
	20.38		5160	EV	54
	20.63		29925	VV	55
	20.82		6130	VB	56
	21.27		8271	VV	57
	21.43		112955	VE	58
	21.89		8414	VV	59
	22.02		27341	VV	60
	22.27		5153	VV	61
	22.45		7031	VV	62
	23.41		14538	BV	63
	23.73		5786	VE	64
	24.04		4724	BB	65

Average result...0.977 UG/ML

Run Number..... 6 End of Report.

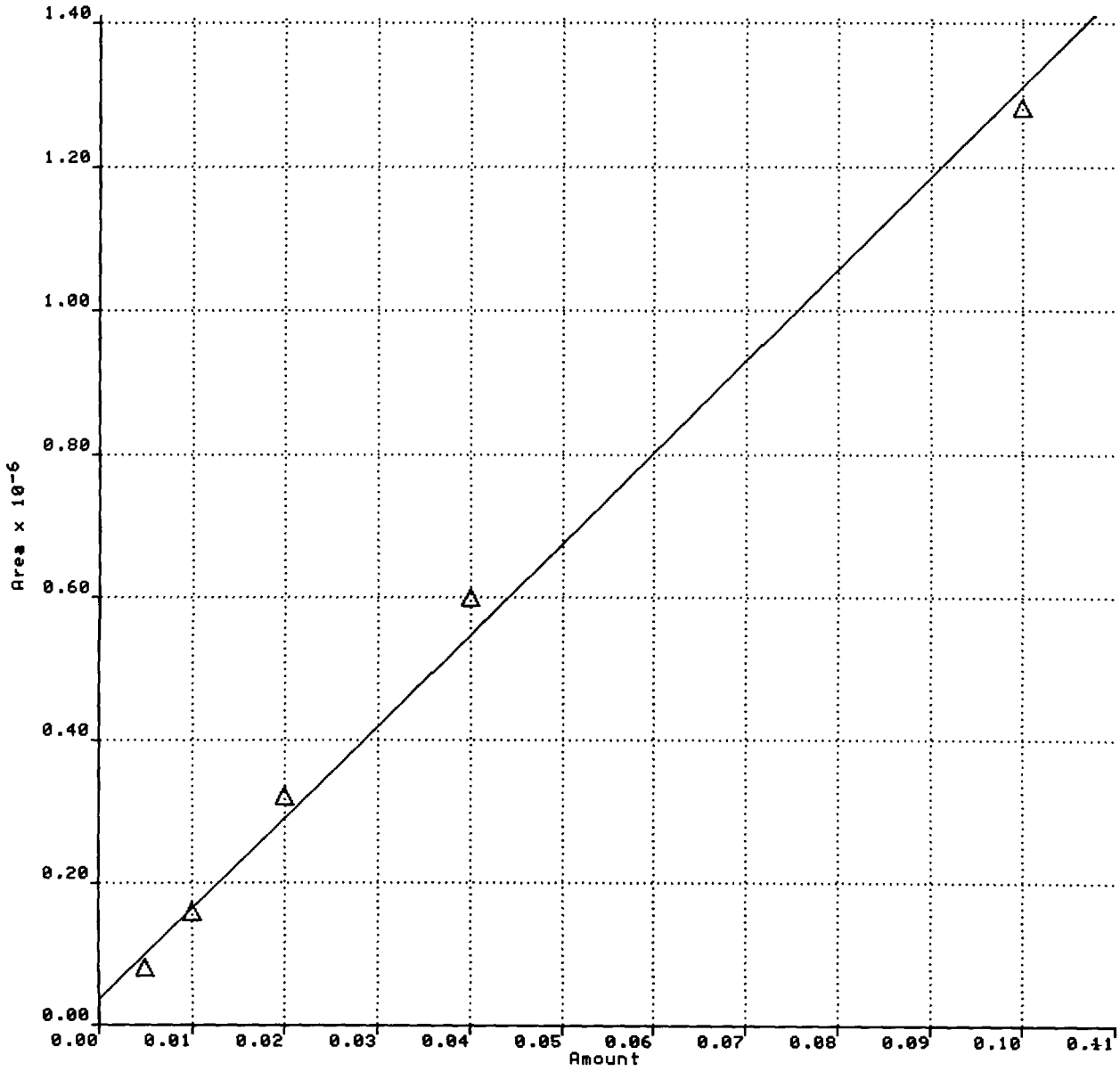
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: 4C3N
Date: 5-MAY-1997 08:44:34.77
Linear fit, Origin Treament....Use.
K0: 5.8095E+04 K1: 5.9612E+06
Coeff. of determination: 0.9920

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	105204	1.0000E-02	
0.20 AR1260	186651	2.0000E-02	
0.40 AR1260	402602	5.0000E-02	
0.50 AR1260	707685	0.10000	
1.0 AR1260	1211675	0.20000	



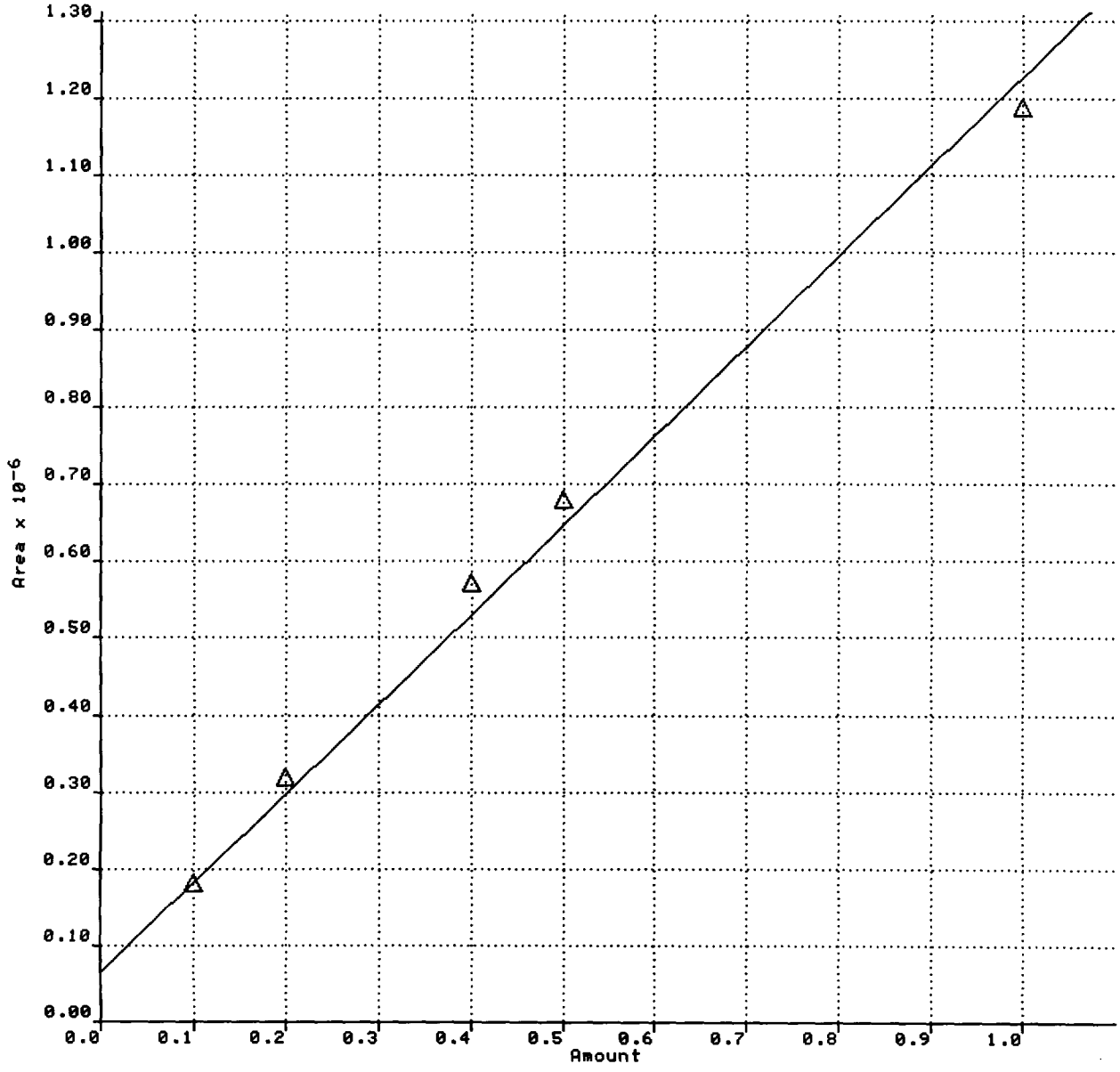
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: TCMX
Date: 5-MAY-1997 08:44:35.09
Linear fit, Origin Treament....Use.
K0: 3.5786E+04 K1: 1.2748E+07
Coeff. of determination: 0.9951

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	81165	5.0000E-03	
0.20 AR1260	159715	1.0000E-02	
0.40 AR1260	321553	2.0000E-02	
0.50 AR1260	598698	4.0000E-02	
1.0 AR1260	1284539	0.10000	



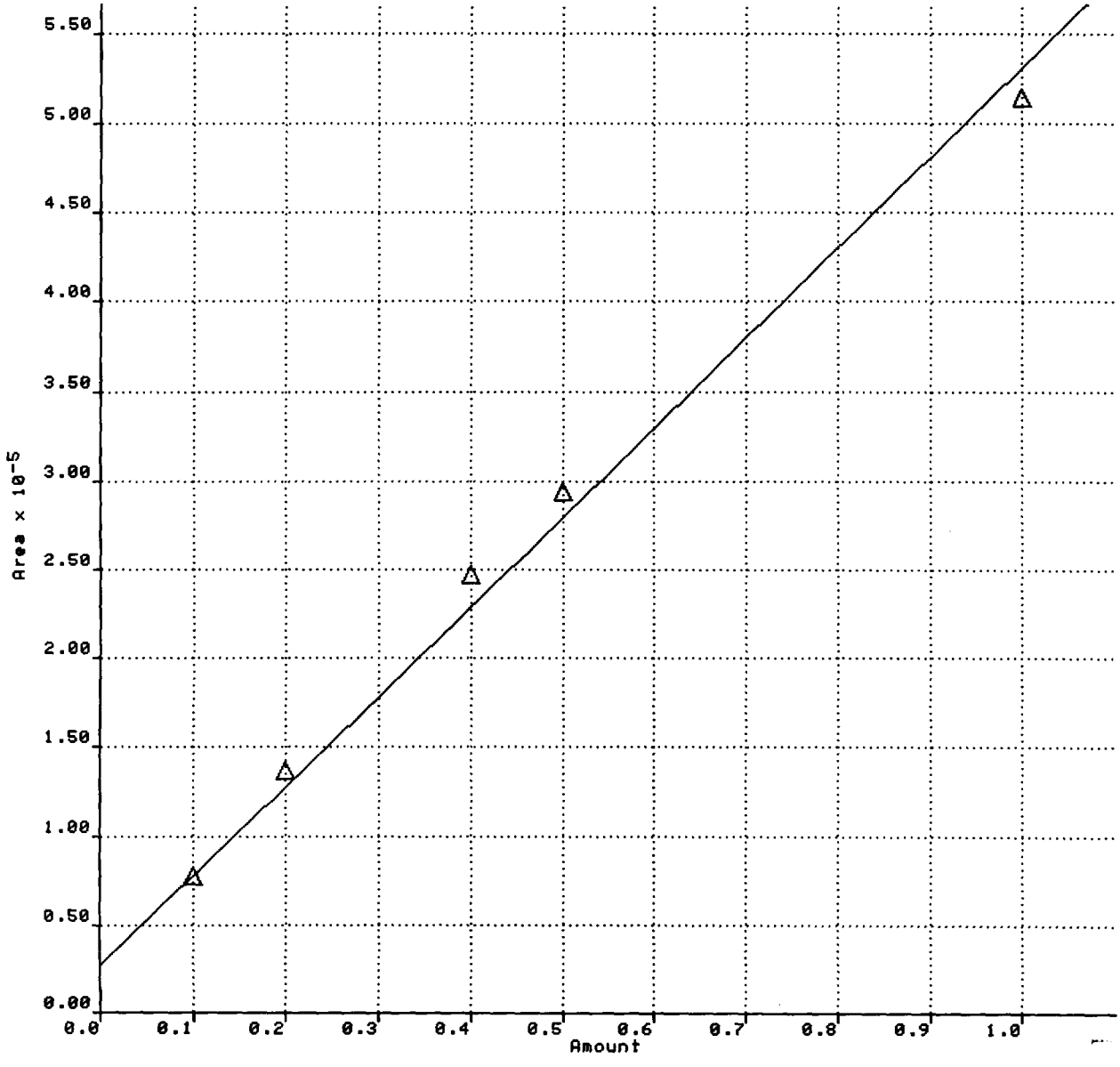
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1016
Date: 5-MAY-1997 08:44:35.41
Linear fit, Origin Treament....Use.
K0: 6.3975E+04 K1: 1.1630E+06
Coeff. of determination: 0.9920

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	182817	0.10000	
0.20 AR1260	319307	0.20000	
0.40 AR1260	572120	0.40000	
0.50 AR1260	680998	0.50000	
1.0 AR1260	1187288	1.0000	



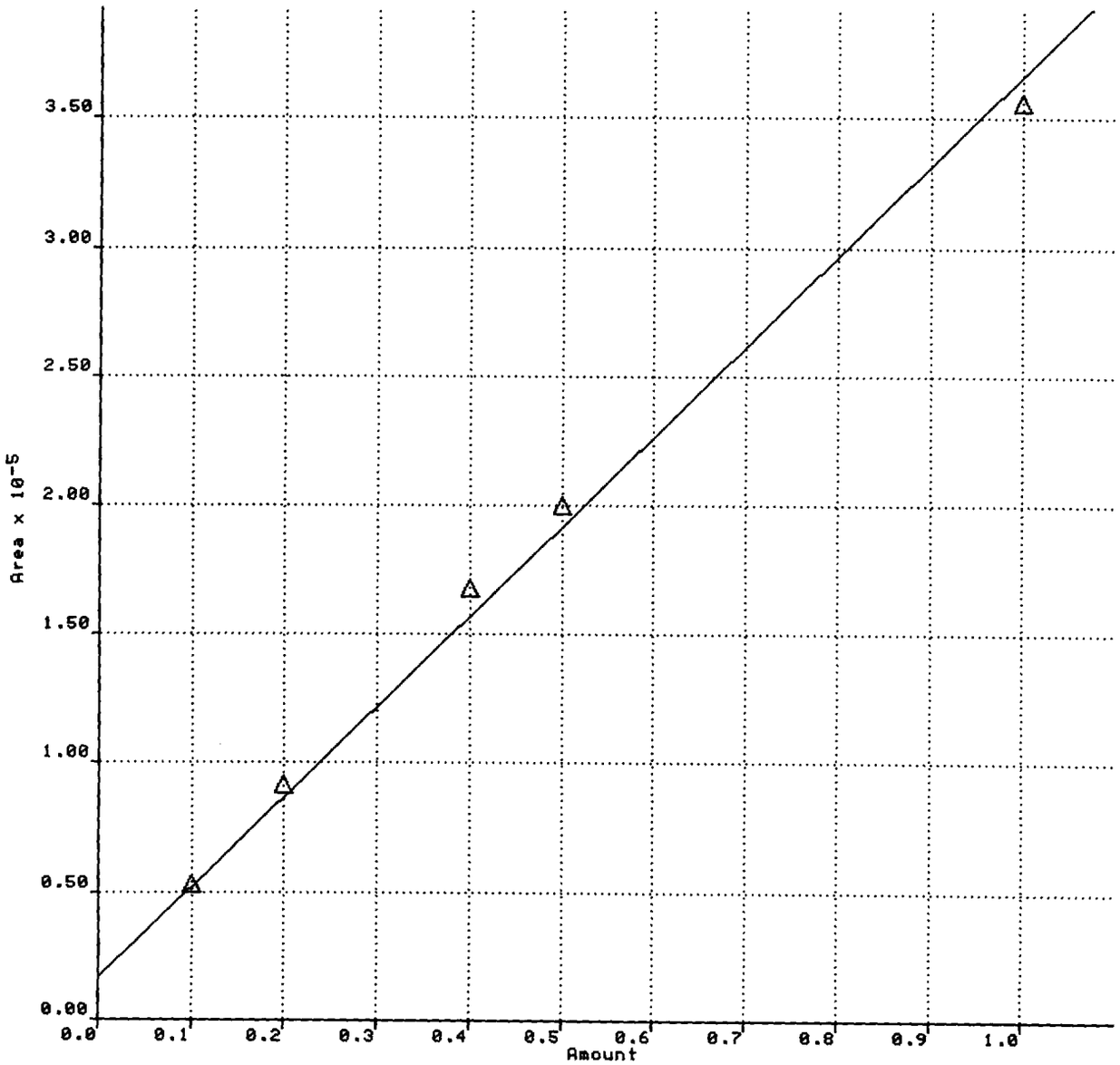
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1016-2
Date: 5-MAY-1997 08:44:35.78
Linear fit, Origin Treament....Use.
K0: 2.6685E+04 K1: 5.0436E+05
Coeff. of determination: 0.9924

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	77865	0.10000	
0.20 AR1260	136727	0.20000	
0.40 AR1260	247063	0.40000	
0.50 AR1260	293859	0.50000	
1.0 AR1260	514183	1.0000	



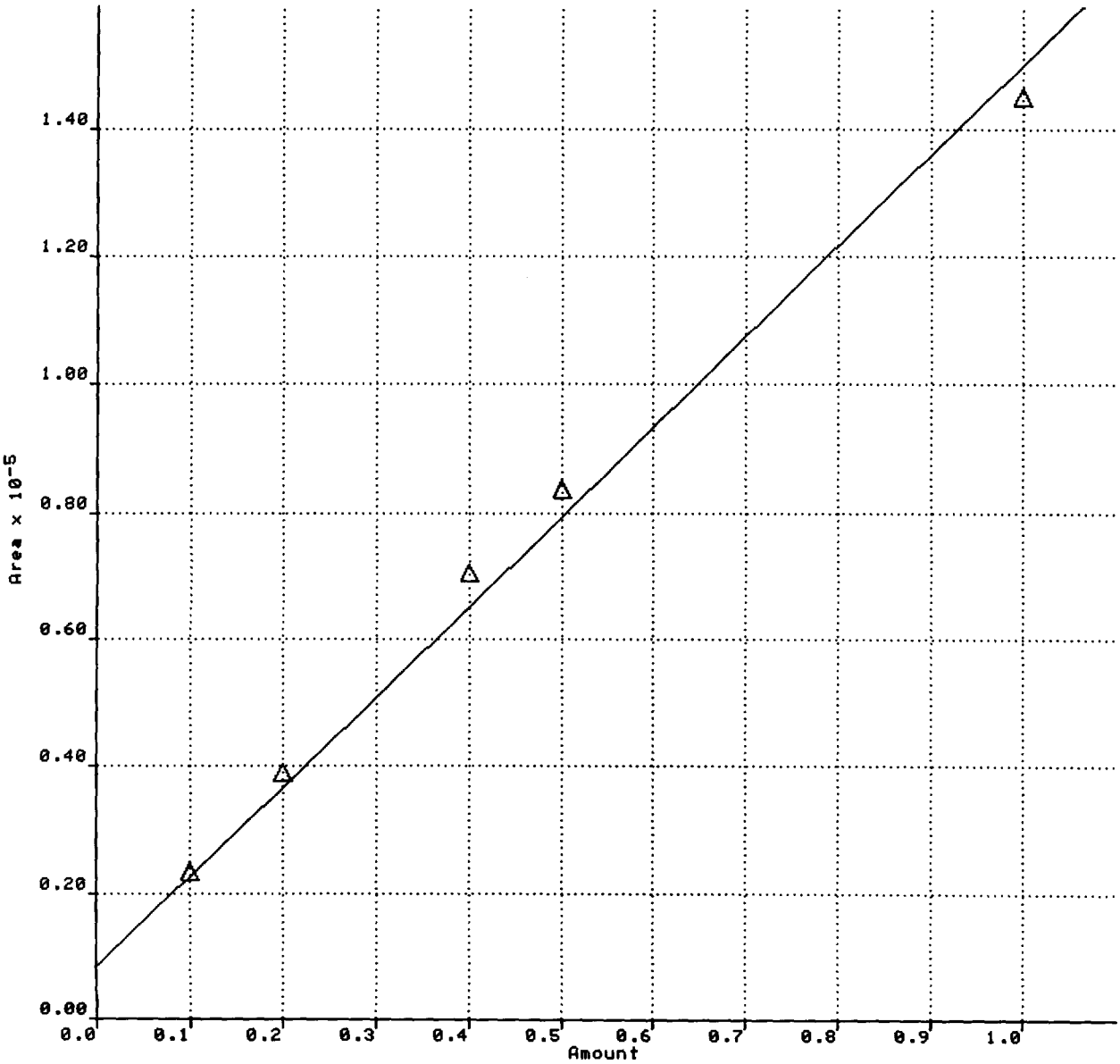
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1016-3
Date: 5-MAY-1997 08:44:36.26
Linear fit, Origin Treament....Use.
K0: 1.6439E+04 K1: 3.4966E+05
Coeff. of determination: 0.9944

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	52902	0.10000	
0.20 AR1260	91226	0.20000	
0.40 AR1260	167507	0.40000	
0.50 AR1260	200241	0.50000	
1.0 AR1260	356010	1.0000	



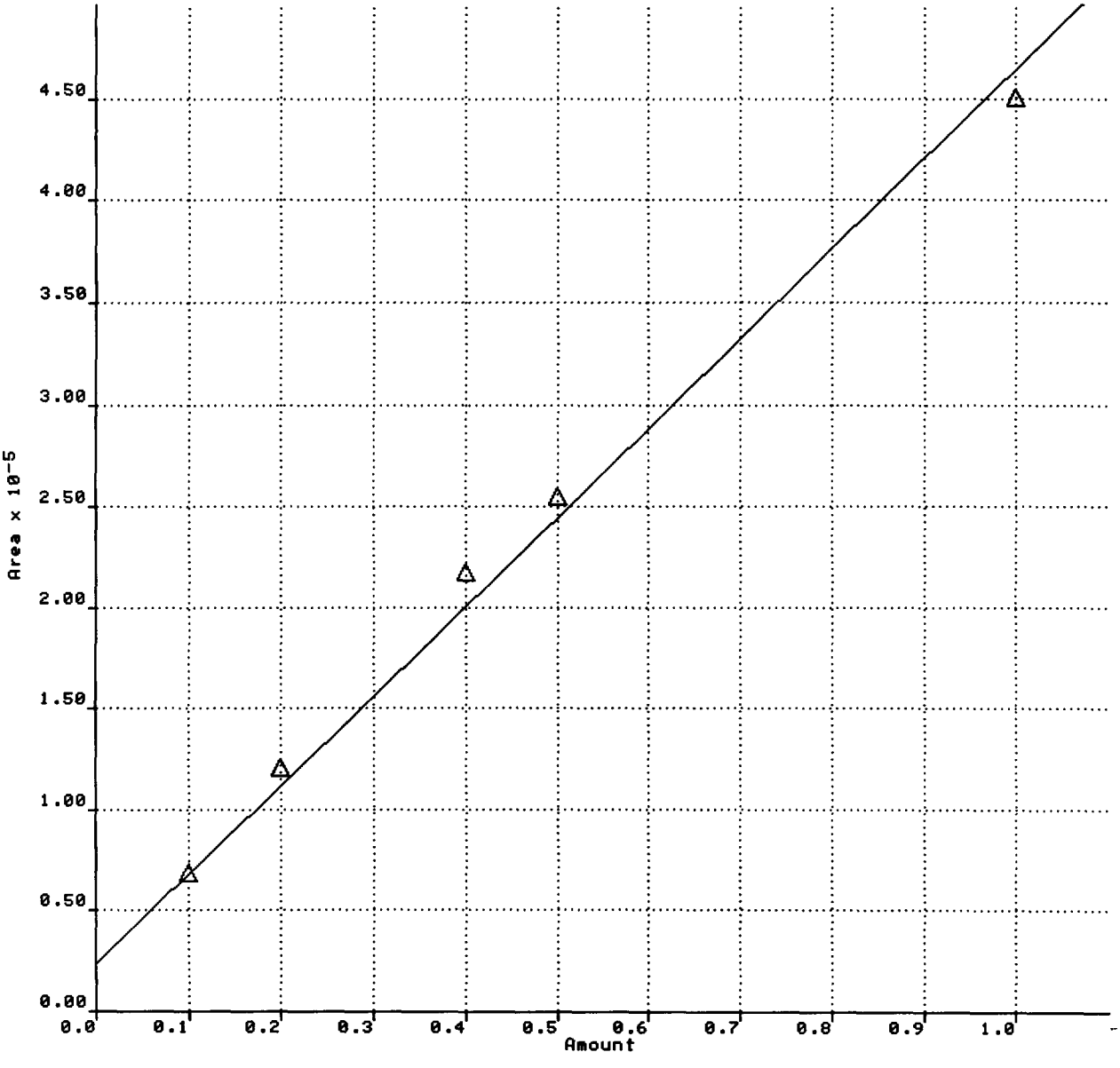
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1016-4
Date: 5-MAY-1997 08:44:36.71
Linear fit, Origin Treament....Use.
K0: 8.3290E+03 K1: 1.4164E+05
Coeff. of determination: 0.9914

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	23421	0.10000	
0.20 AR1260	39075	0.20000	
0.40 AR1260	70443	0.40000	
0.50 AR1260	83721	0.50000	
1.0 AR1260	144926	1.0000	



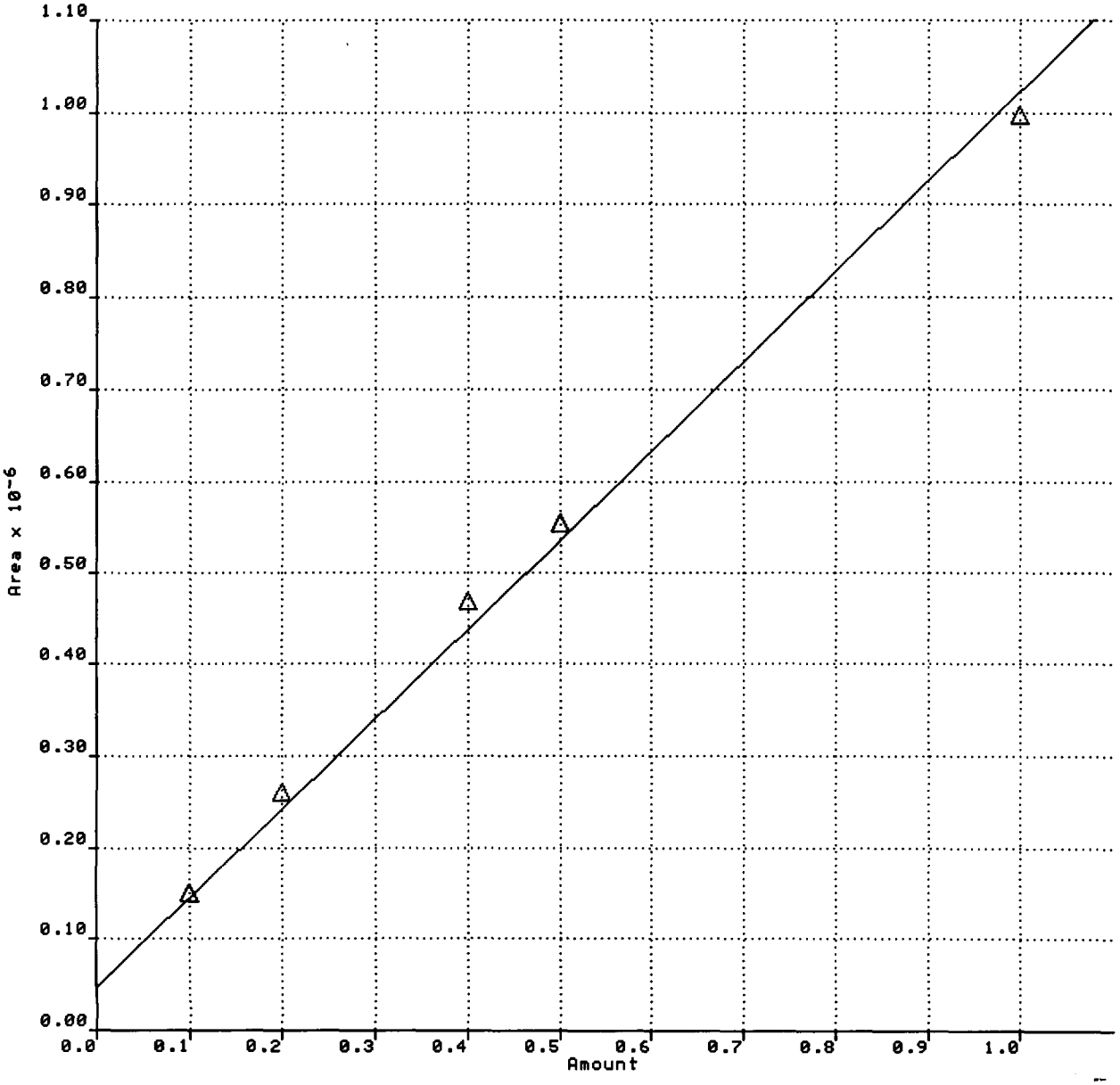
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1016-5
Date: 5-MAY-1997 08:44:37.15
Linear fit, Origin Treament....Use.
K0: 2.3644E+04 K1: 4.4114E+05
Coeff. of determination: 0.9926

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	68455	0.10000	
0.20 AR1260	121042	0.20000	
0.40 AR1260	217373	0.40000	
0.50 AR1260	254848	0.50000	
1.0 AR1260	450655	1.0000	



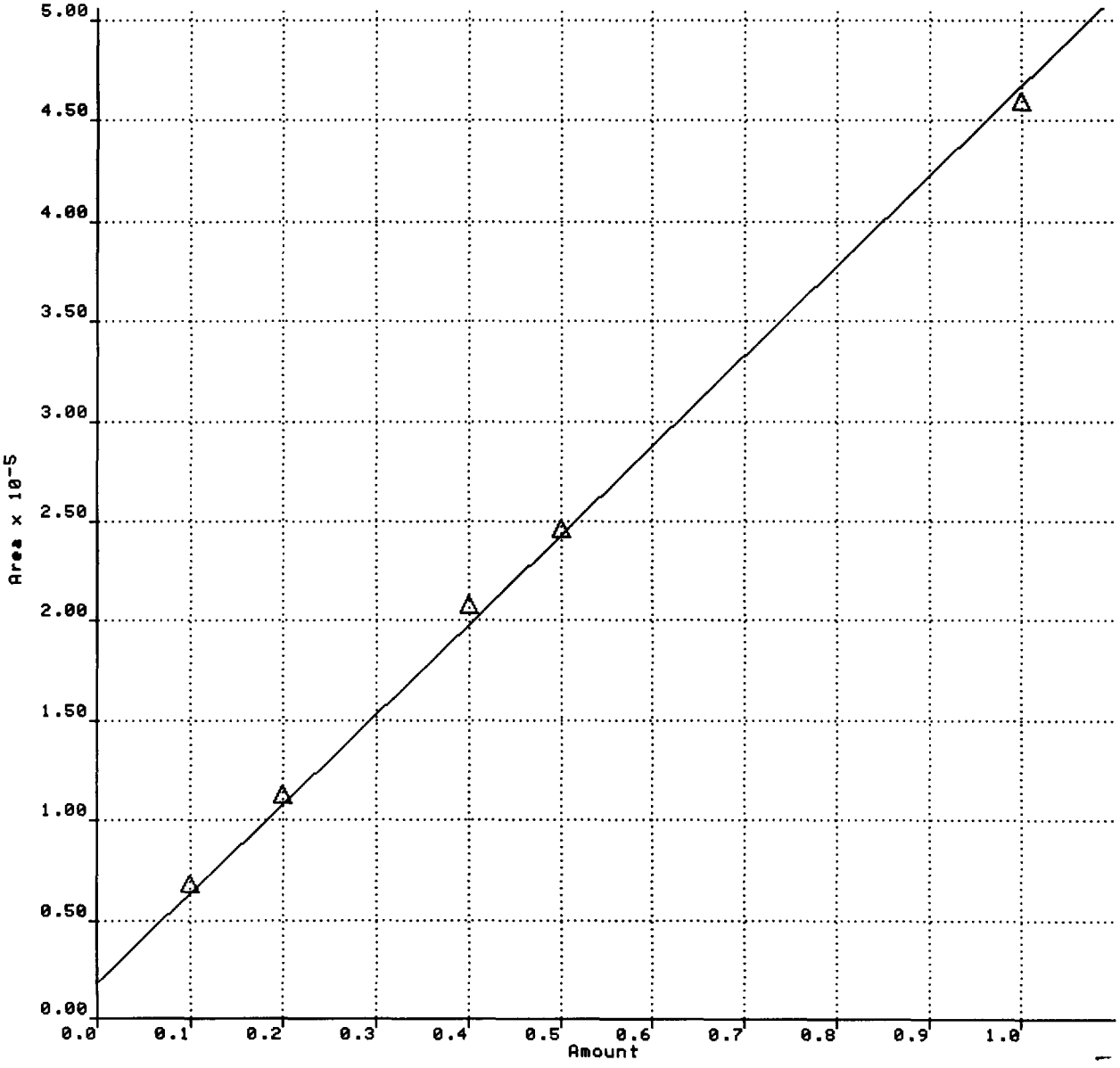
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1260
Date: 5-MAY-1997 08:44:37.61
Linear fit, Origin Treament....Use.
K0: 4.7347E+04 K1: 9.7623E+05
Coeff. of determination: 0.9949

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	150110	0.10000	
0.20 AR1260	260996	0.20000	
0.40 AR1260	469208	0.40000	
0.50 AR1260	553813	0.50000	
1.0 AR1260	997658	1.0000	



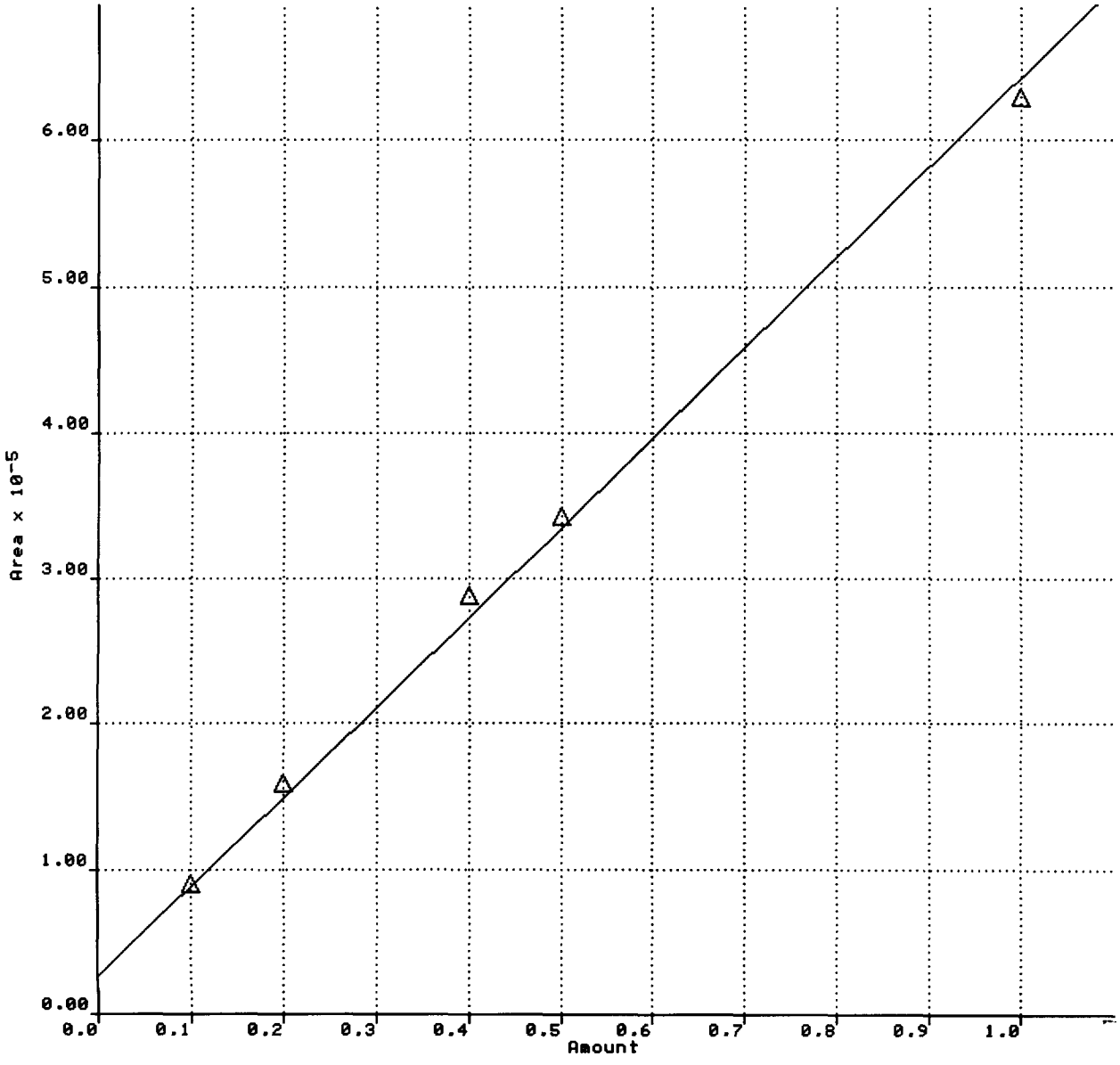
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1260-2
Date: 5-MAY-1997 08:44:38.04
Linear fit, Origin Treament....Use.
K0: 1.7824E+04 K1: 4.4949E+05
Coeff. of determination: 0.9975

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	68913	0.10000	
0.20 AR1260	113146	0.20000	
0.40 AR1260	207888	0.40000	
0.50 AR1260	246160	0.50000	
1.0 AR1260	459708	1.0000	



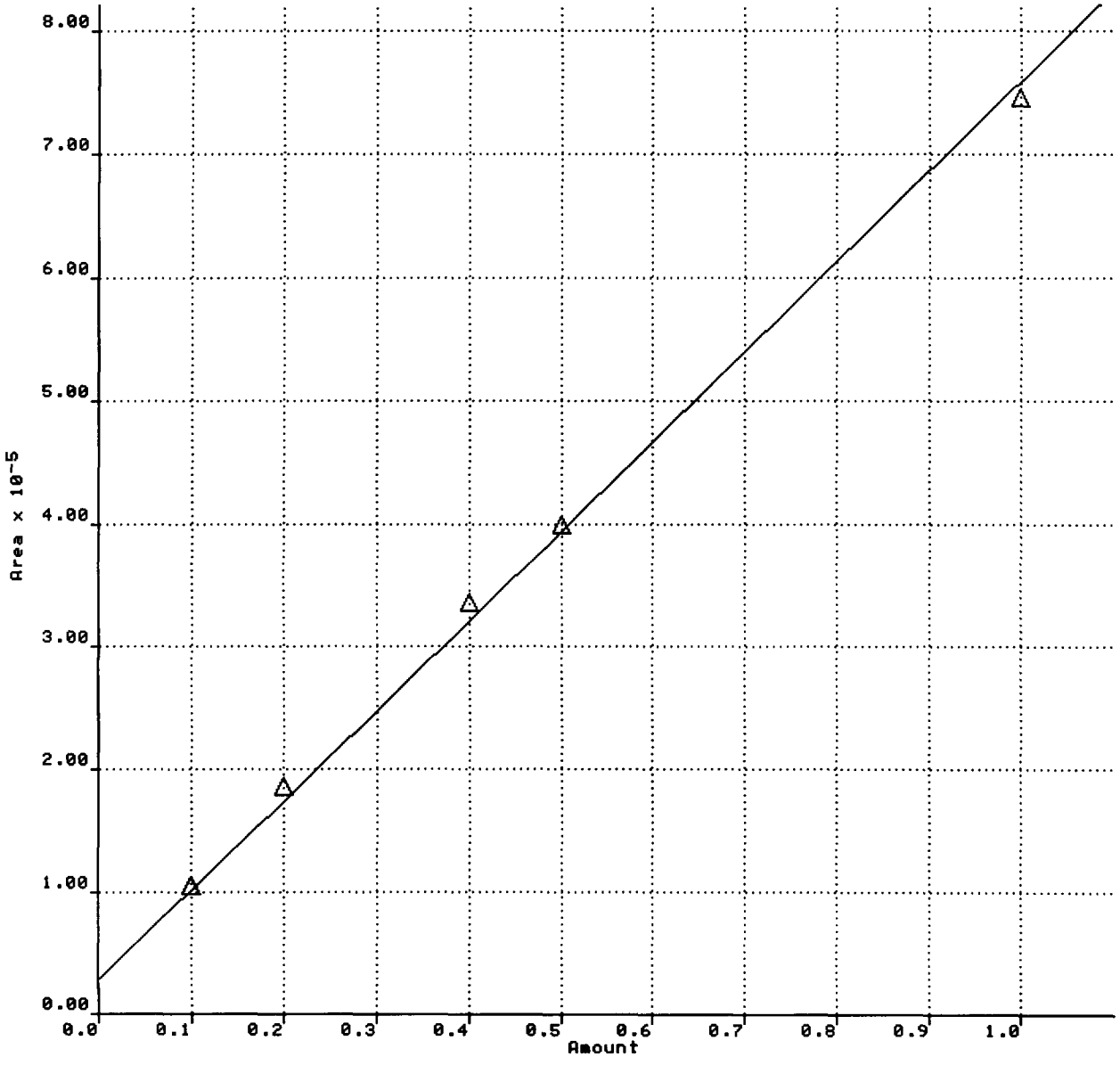
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1260-3
Date: 5-MAY-1997 08:44:38.69
Linear fit, Origin Treament....Use.
K0: 2.5622E+04 K1: 6.1743E+05
Coeff. of determination: 0.9965

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	90642	0.10000	
0.20 AR1260	159537	0.20000	
0.40 AR1260	289030	0.40000	
0.50 AR1260	343269	0.50000	
1.0 AR1260	629594	1.0000	



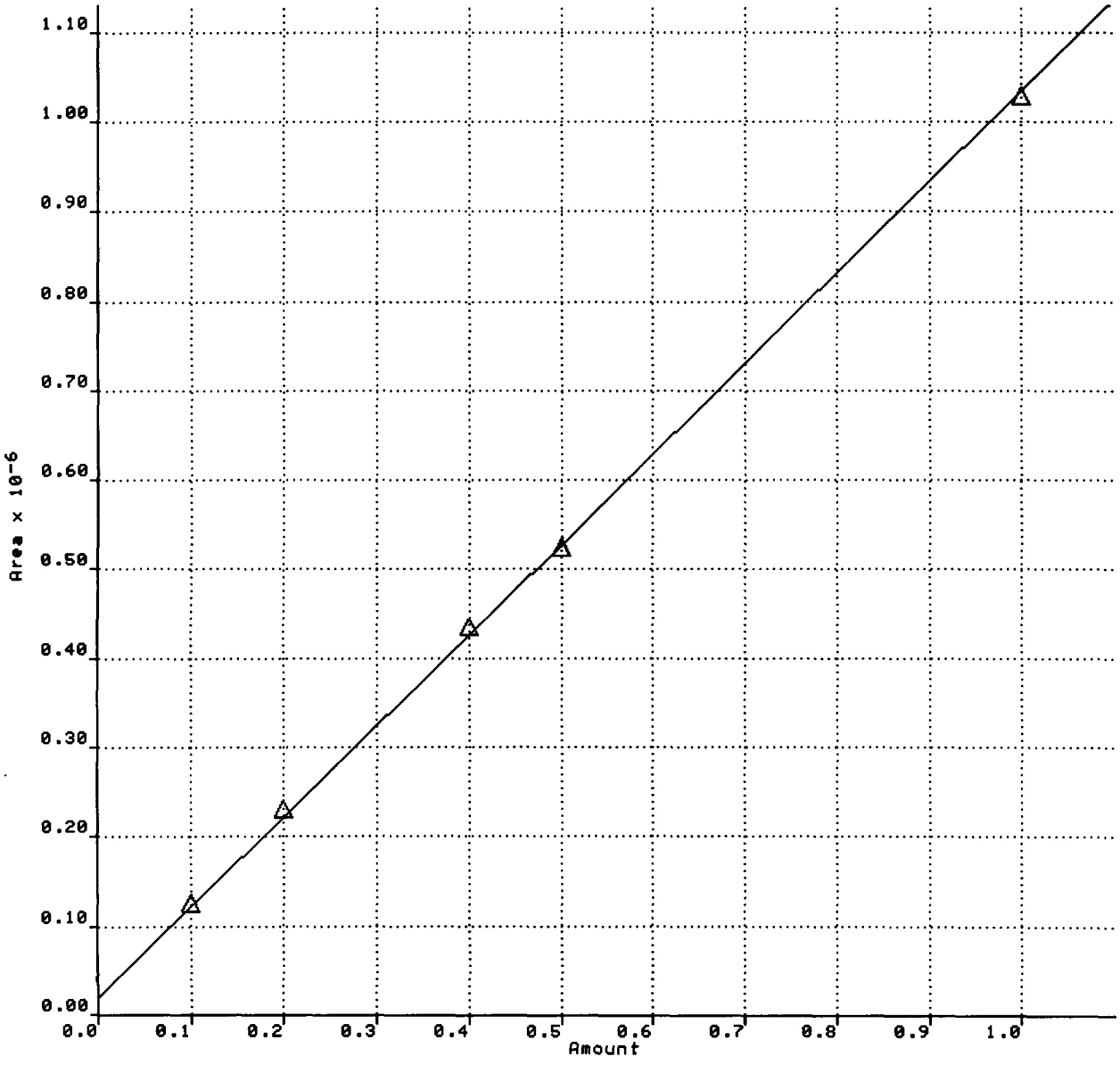
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1260-4
Date: 5-MAY-1997 08:44:39.36
Linear fit, Origin Treament....Use.
K0: 2.7508E+04 K1: 7.3196E+05
Coeff. of determination: 0.9976

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	106153	0.10000	
0.20 AR1260	185753	0.20000	
0.40 AR1260	336195	0.40000	
0.50 AR1260	400650	0.50000	
1.0 AR1260	746613	1.0000	



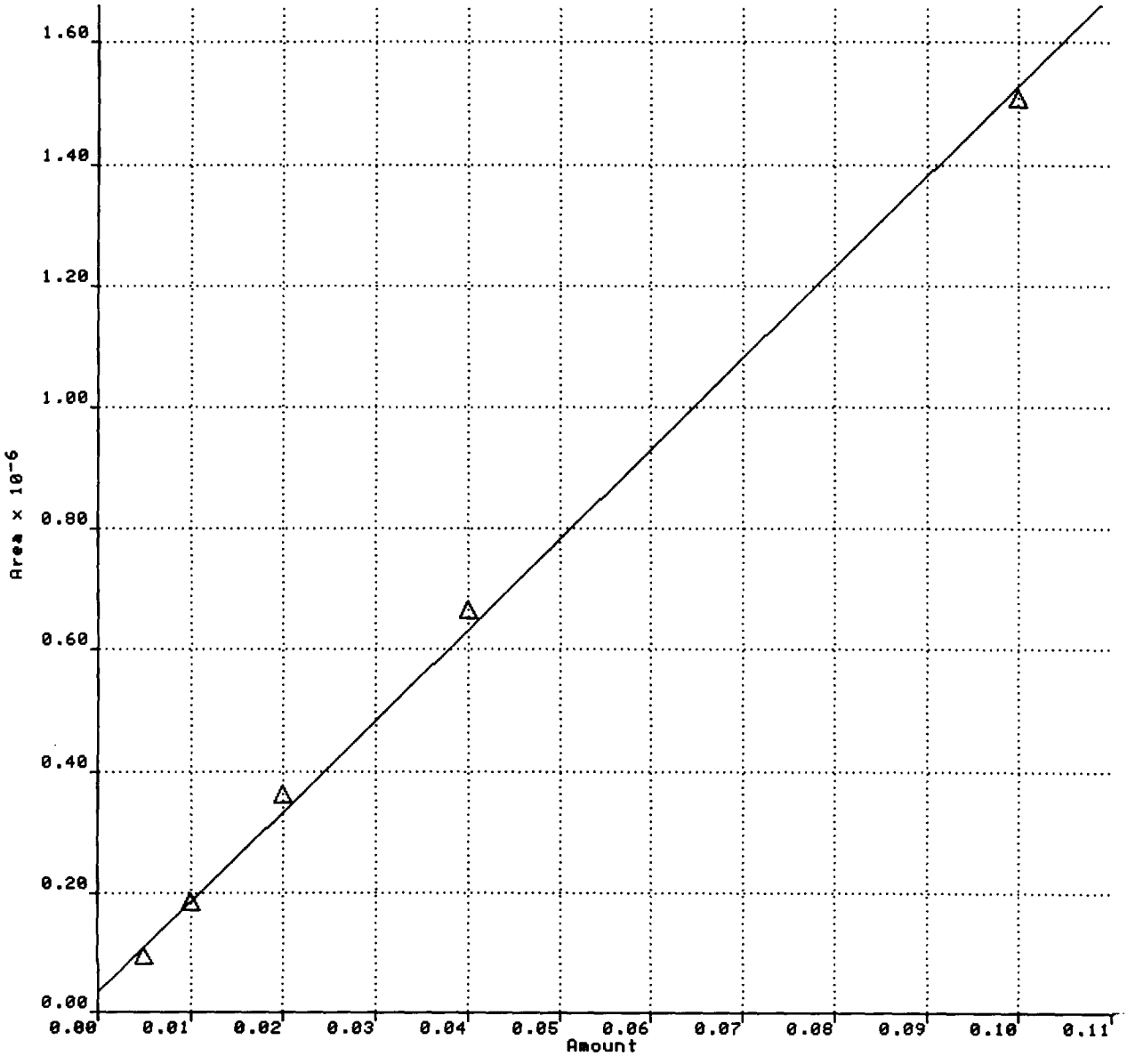
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: AROCLOR-1260-5
Date: 5-MAY-1997 08:44:39.81
Linear fit, Origin Treament....Use.
K0: 1.9002E+04 K1: 1.0157E+06
Coeff. of determination: 0.9994

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	125948	0.10000	
0.20 AR1260	231705	0.20000	
0.40 AR1260	436860	0.40000	
0.50 AR1260	525967	0.50000	
1.0 AR1260	1028045	1.0000	



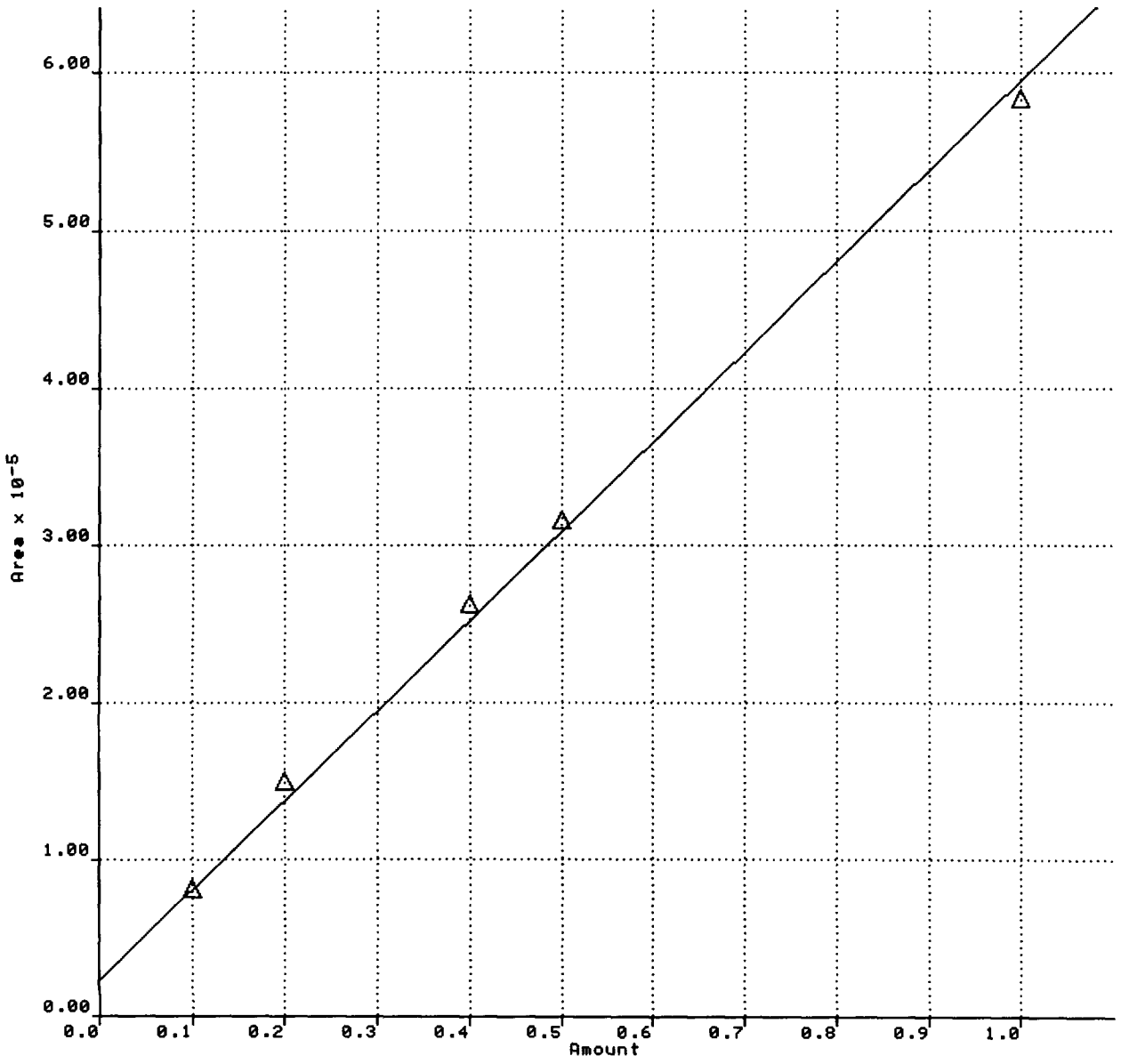
Method: DKB100:[LEWANDOWSKI]6_AR1660_0502.MET;33
Component: DCB
Date: 5-MAY-1997 08:44:40.37
Linear fit, Origin Treament....Use.
K0: 3.3883E+04 K1: 1.4924E+07
Coeff. of determination: 0.9981

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1260	96026	5.0000E-03	
0.20 AR1260	185397	1.0000E-02	
0.40 AR1260	361668	2.0000E-02	
0.50 AR1260	664585	4.0000E-02	
1.0 AR1260	1507317	0.10000	



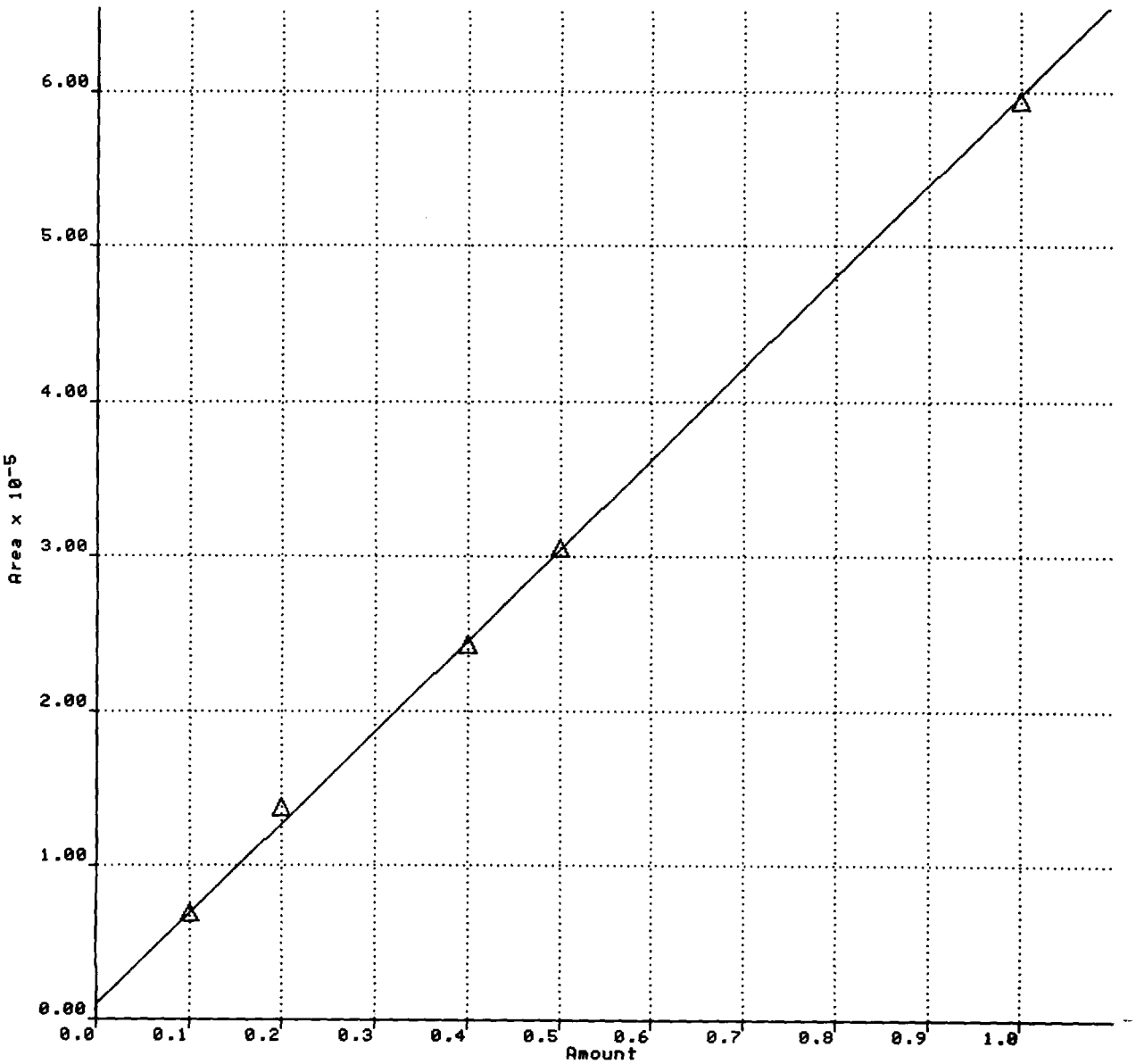
Method: DKB100:[LEWANDOWSKI]6_AR1254_0502.MET;7
Component: AROCLOR-1254
Date: 5-MAY-1997 07:53:04.95
Linear fit, Origin Treament....Use.
K0: 2.2759E+04 K1: 5.7162E+05
Coeff. of determination: 0.9970

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	81853	0.10000	
0.2 AR1254	149908	0.20000	
0.4 AR1254	262685	0.40000	
0.5 AR1254	316555	0.50000	
1.0 AR1254	583114	1.0000	



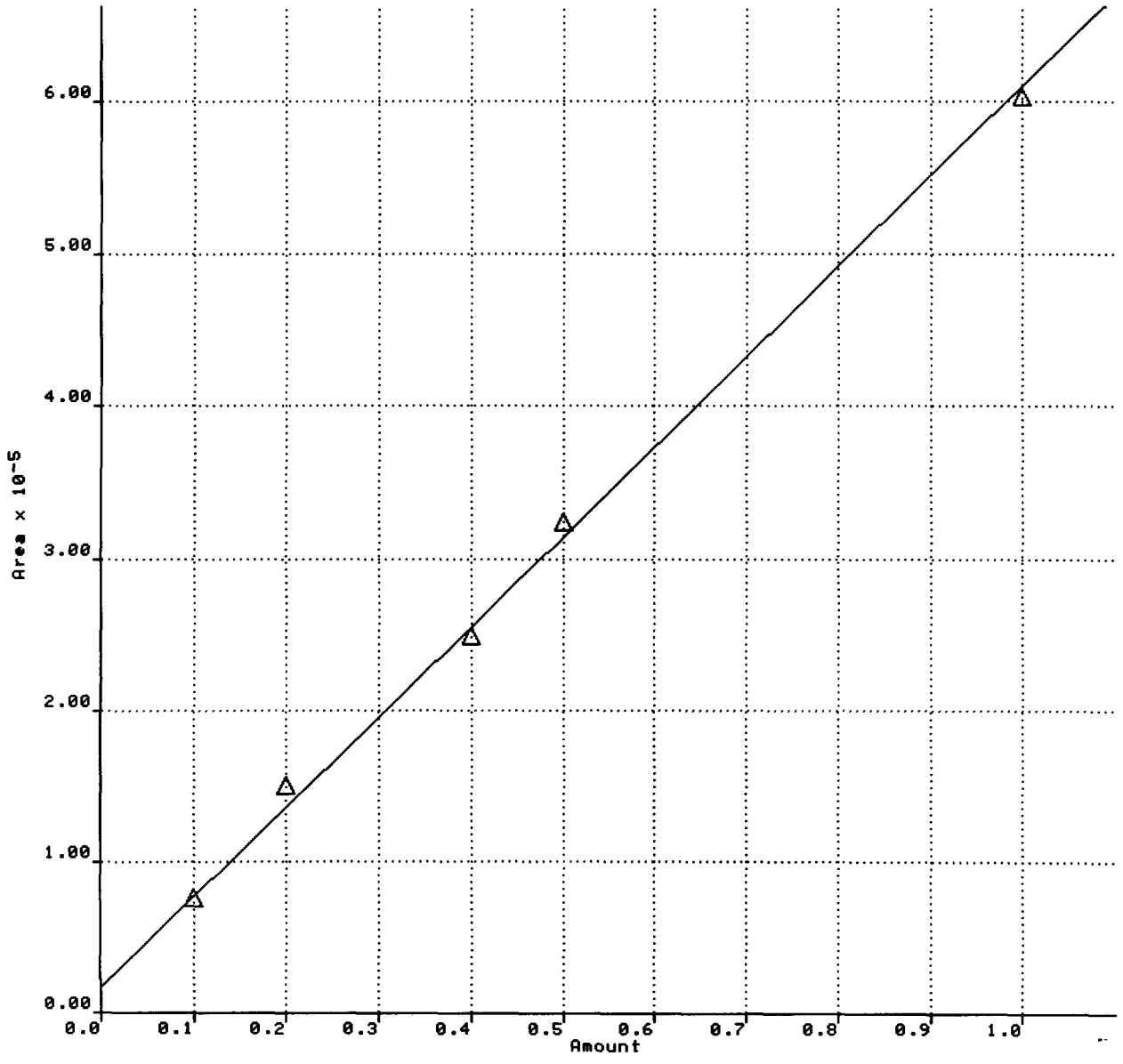
Method: DKB100:[LEWANDOWSKI]6_AR1254_0502.MET;7
Component: AROCLOR-1254-2
Date: 5-MAY-1997 07:53:05.26
Linear fit, Origin Treament....Use.
K0: 1.0128E+04 K1: 5.8701E+05
Coeff. of determination: 0.9992

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	70093	0.10000	
0.2 AR1254	138104	0.20000	
0.4 AR1254	243344	0.40000	
0.5 AR1254	306604	0.50000	
1.0 AR1254	594050	1.0000	



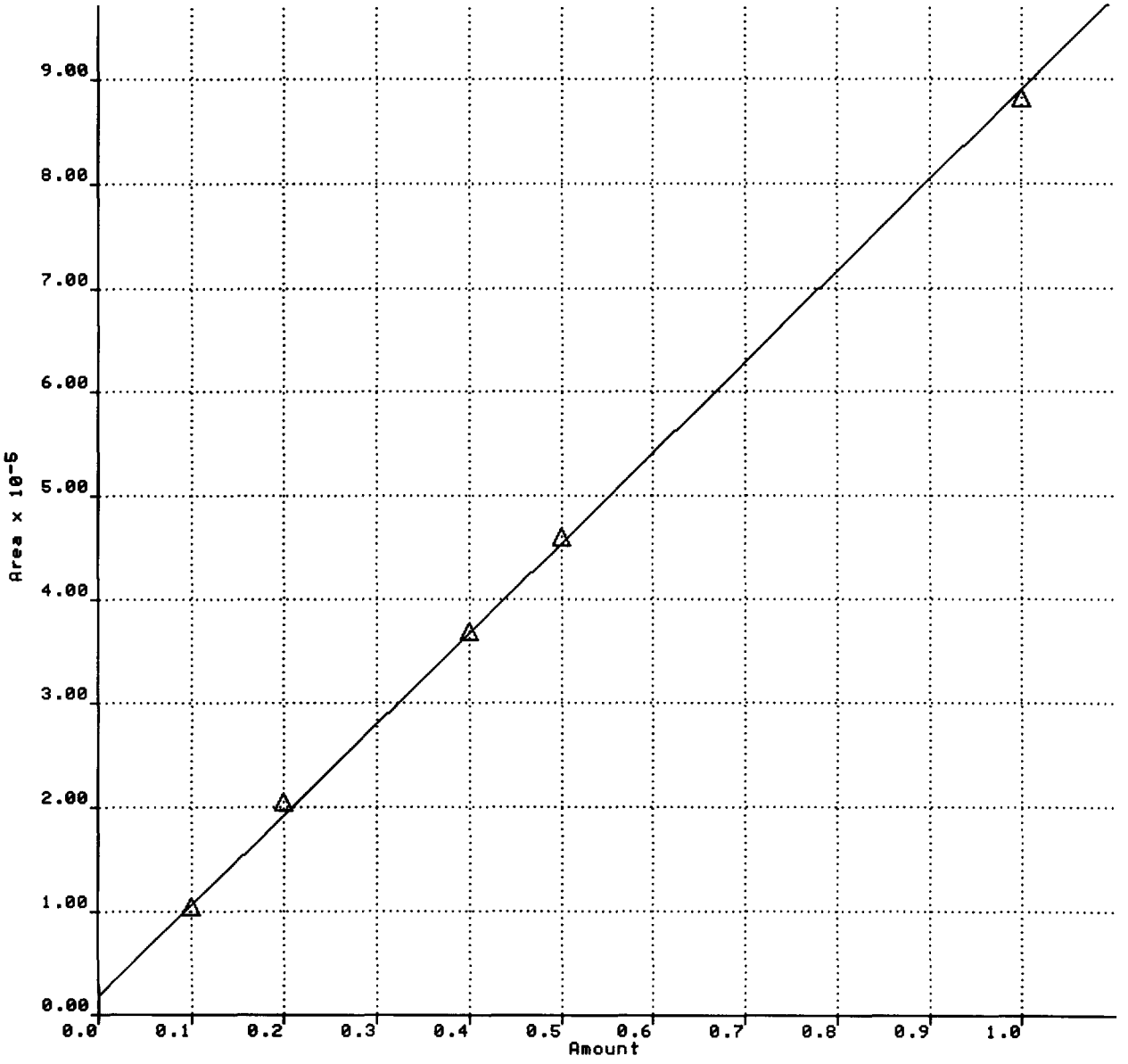
Method: DKB100:[LEWANDOWSKI]6_AR1254_0502.MET;7
Component: AROCLOR-1254-3
Date: 5-MAY-1997 07:53:05.55
Linear fit, Origin Treament....Use.
K0: 1.6343E+04 K1: 5.9358E+05
Coeff. of determination: 0.9975

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	76730	0.10000	
0.2 AR1254	150857	0.20000	
0.4 AR1254	249466	0.40000	
0.5 AR1254	323866	0.50000	
1.0 AR1254	603021	1.0000	



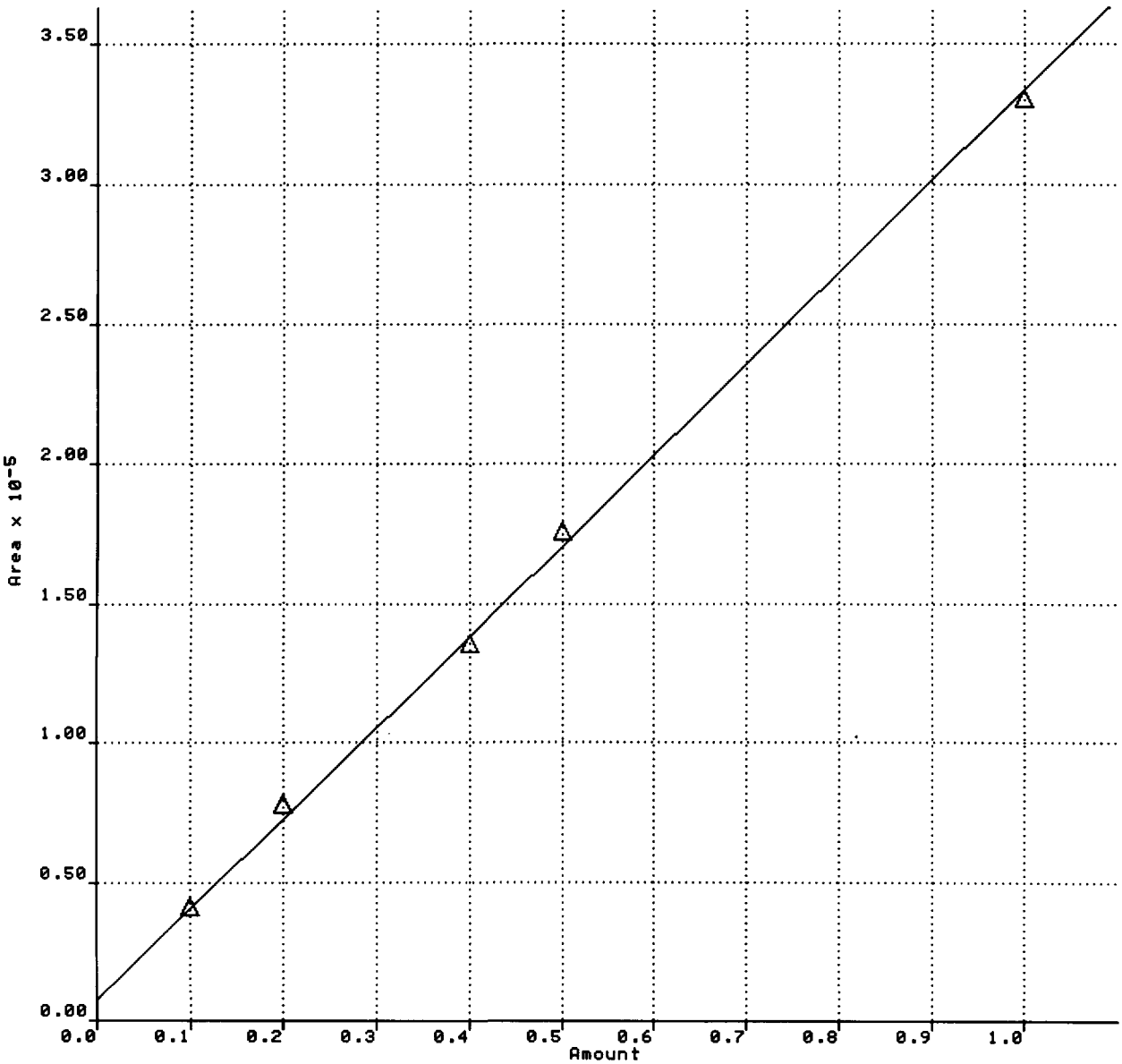
Method: DKB100:[LEWANDOWSKI]6_AR1254_0502.MET;7
Component: AROCLOR-1254-4
Date: 5-MAY-1997 07:53:05.94
Linear fit, Origin Treament....Use.
K0: 1.7543E+04 K1: 8.7208E+05
Coeff. of determination: 0.9991

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	105561	0.10000	
0.2 AR1254	205465	0.20000	
0.4 AR1254	369589	0.40000	
0.5 AR1254	461744	0.50000	
1.0 AR1254	881475	1.0000	



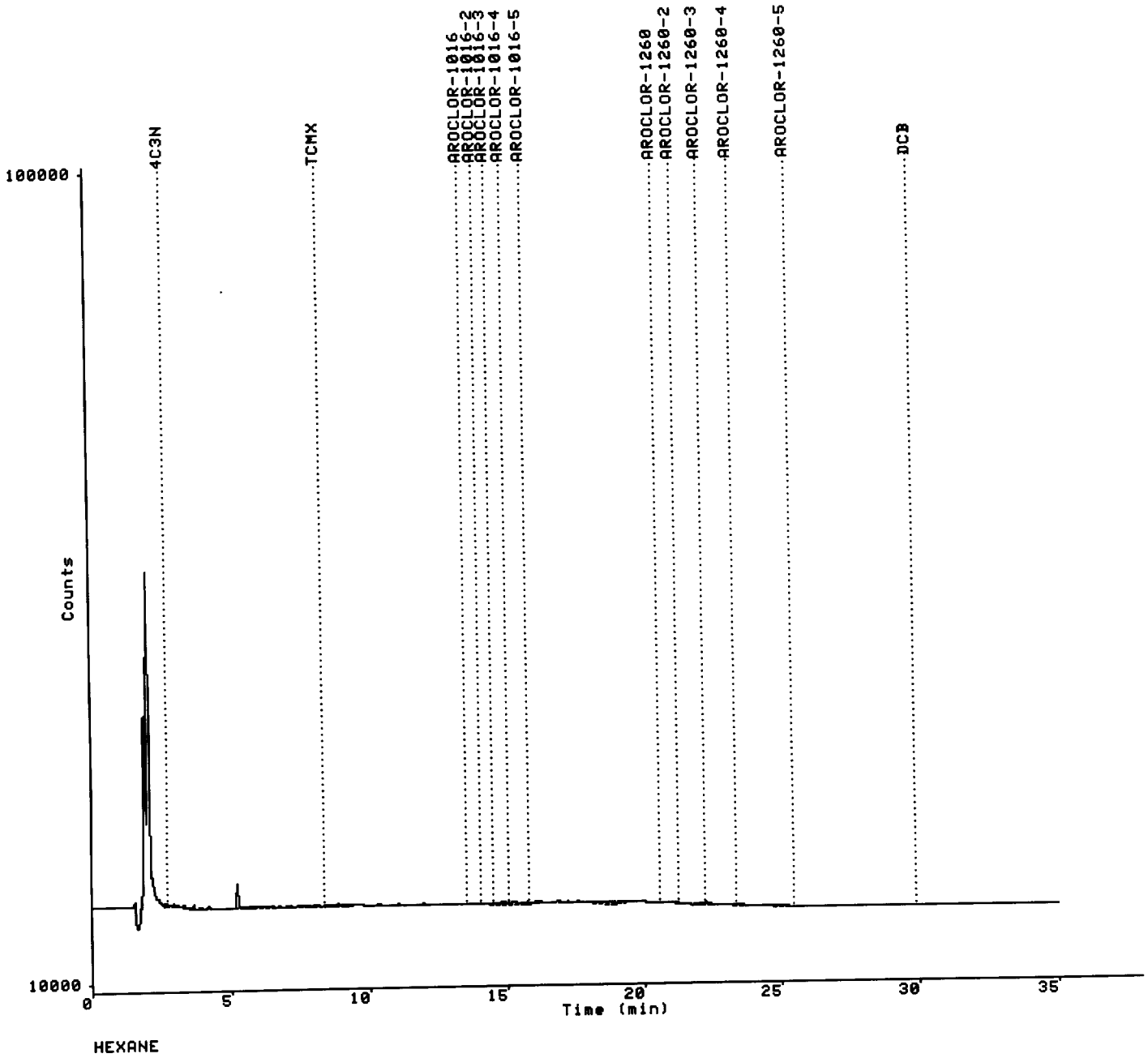
Method: DKB100:[LEWANDOWSKI]6_AR1254_0502.MET;7
Component: AROCLOR-1254-5
Date: 5-MAY-1997 07:53:06.35
Linear fit, Origin Treament....Use.
K0: 7.2626E+03 K1: 3.2622E+05
Coeff. of determination: 0.9984

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.1 AR1254	41176	0.10000	
0.2 AR1254	78251	0.20000	
0.4 AR1254	135476	0.40000	
0.5 AR1254	176118	0.50000	
1.0 AR1254	330248	1.0000	



Run Number..... 1
Sample Name..... HEXANE
Run Date..... 2-MAY-1997 17:23:13
Raw File..... 6_0502_001
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

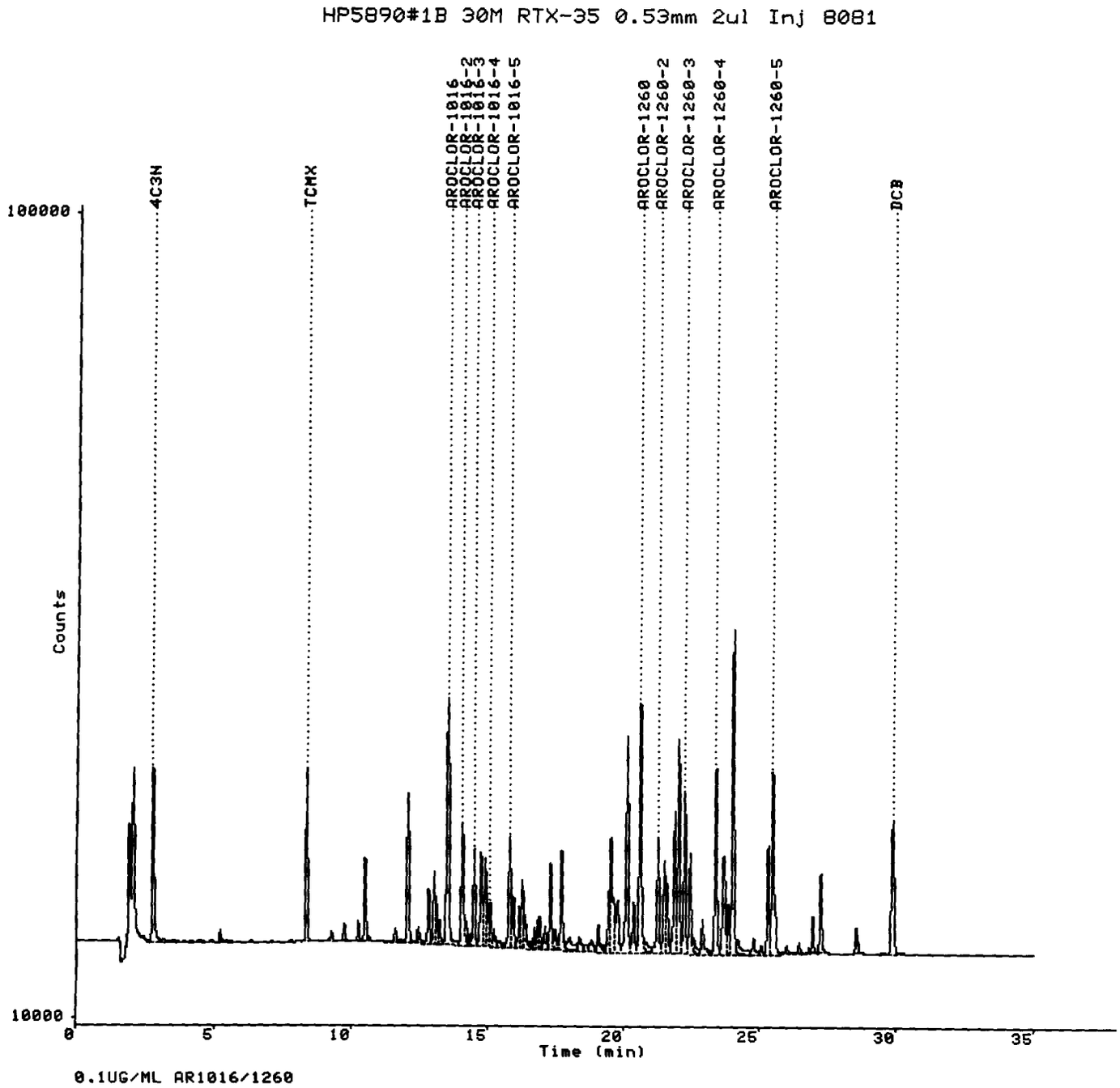
Sample ID: HEXANE
Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_001
Analysis Date: 2-MAY-1997 17:23:13

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.22		11523	BE	1

AR1016 average result...-0.0500
AR1260 average result...-0.0358

Run Number..... 1 End of Report.

Run Number..... 2
Sample Name..... 0.1UG/ML AR1016/1260
Run Date..... 2-MAY-1997 18:05:46
Raw File..... 6_0502_002
Method Name..... 6_AR1660_0502
Method Type..... Linear



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_002 Analysis Date: 2-MAY-1997 18:05:46

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	2.76	0.00790	105204	BE	1
	5.21		6751	VE	2
TCMX	8.34	0.00356	81165	VE	3
	9.27		5129	VB	4
	9.73		8727	BB	5
	10.24		10055	BV	6
	10.48		42806	VE	7
	11.59		7923	VE	8
	12.04		93680	VV	9
	12.43		11422	VE	10
	12.80		30298	VV	11
	13.00		39615	VV	12
	13.09		16891	VV	13
	13.21		13191	VV	14
AROCLOR-1016	13.51	0.102	182817	VV	15
AROCLOR-1016-2	14.04	0.101	77865	VE	16
	14.20		10352	EV	17
	14.36		5651	EV	18
AROCLOR-1016-3	14.48	0.104	52902	VV	19
	14.73		63745	VV	20
	14.89		52995	VV	21
	14.98		16519	VV	22
AROCLOR-1016-4	15.08	0.107	23421	VV	23
	15.22		10907	VV	24
	15.40		6513	VV	25
AROCLOR-1016-5	15.79	0.102	68455	VV	26
	15.93		28240	VV	27
	16.16		21794	VV	28
	16.25		35906	VV	29
	16.36		19647	VE	30
	16.71		12032	VV	31
	16.85		13688	VV	32
	16.89		17125	VV	33
	17.10		14601	VV	34
	17.29		50685	VE	35
	17.47		11749	EV	36
	17.70		59061	VE	37
	18.00		20659	EV	38
	18.37		13213	VV	39
	18.58		6901	VV	40
	18.81		10363	VB	41
	19.05		17089	BE	42
	19.45		30844	VV	43
	19.51		84647	VV	44
	19.76		44287	VV	45
	20.10		137329	VV	46
	20.35		31233	VV	47
AROCLOR-1260	20.58	0.105	150110	VE	48
	20.83		12700	EV	49
AROCLOR-1260-2	21.24	0.114	68913	VV	50

Sample ID: 0.1UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_002 Analysis Date: 2-MAY-1997 18:05:46

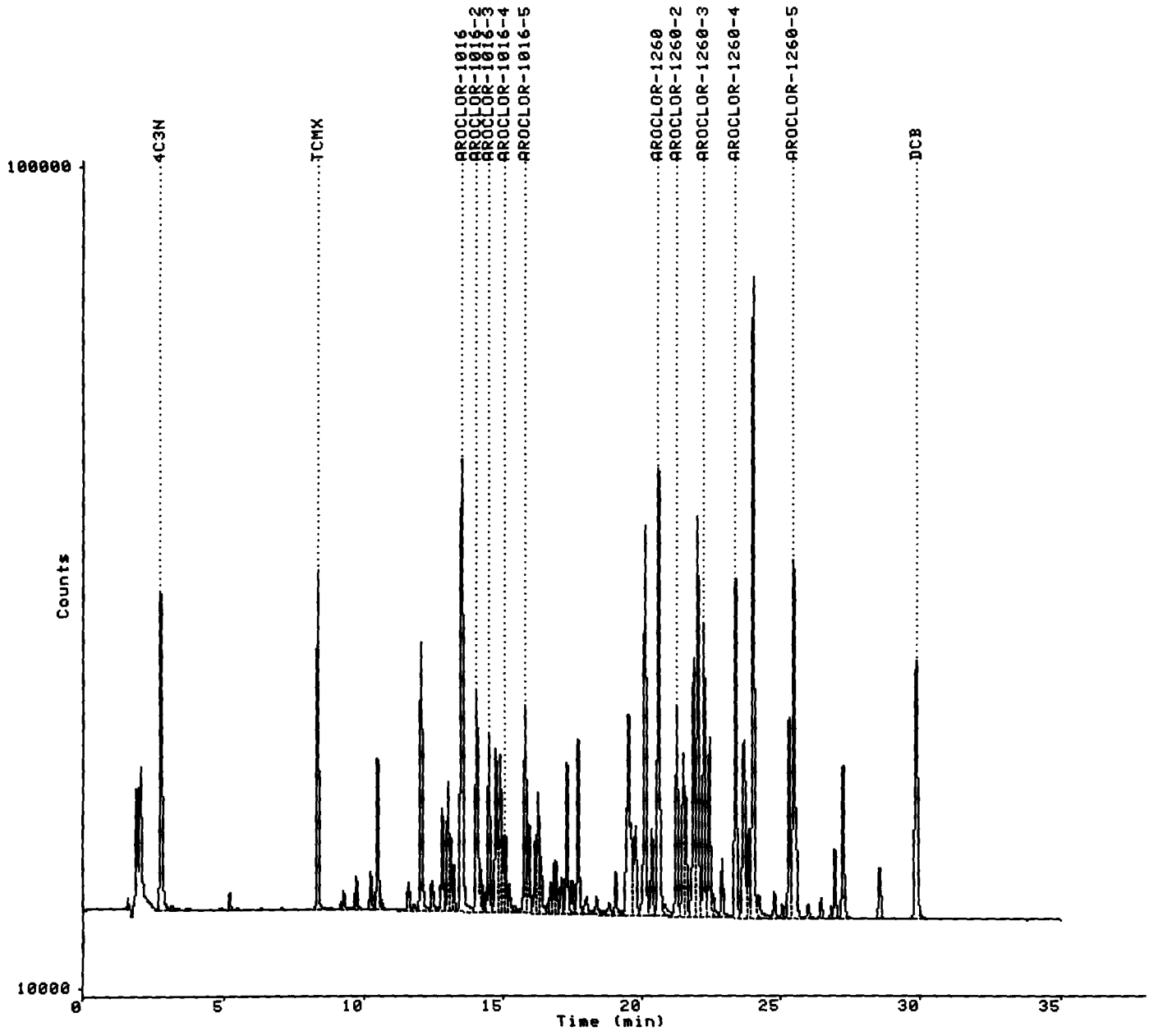
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	21.47		53840	VV	51
	21.57		35812	VV	52
	21.85		89619	VV	53
	21.99		122928	VV	54
AROCLOR-1260-3	22.22	0.105	90642	VV	55
	22.42		57745	VE	56
	22.56		12546	EV	57
	22.88		26906	VE	58
AROCLOR-1260-4	23.37	0.107	106153	VV	59
	23.66		80857	VV	60
	23.84		26633	VV	61
	24.00		184146	VE	62
	24.22		19767	EV	63
	24.79		13197	VV	64
	25.07		6733	VV	65
	25.31		59413	VV	66
AROCLOR-1260-5	25.47	0.105	125948	VB	67
	26.00		11559	BV	68
	26.46		7458	VV	69
	26.96		18628	VV	70
	27.24		44528	VB	71
	28.55		15731	BB	72
DCB	29.86	0.00416	96026	VB	73

AR1016 average result...0.103
AR1260 average result...0.107

Run Number..... 2 End of Report.

Run Number..... 3
Sample Name..... 0.2UG/ML AR1016/1260
Run Date..... 2-MAY-1997 18:48:08
Raw File..... 6_0502_003
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.2UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_003 Analysis Date: 2-MAY-1997 18:48:08

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	2.75	0.0216	186651	BE	1
	5.20		8252	BE	2
TCMX	8.34	0.00972	159715	VE	3
	9.27		9719	VE	4
	9.72		16601	BB	5
	10.24		18205	BV	6
	10.47		76011	VE	7
	11.58		13456	VV	8
	12.03		161908	VV	9
	12.43		18766	VE	10
	12.80		53230	VV	11
	13.00		69374	VV	12
	13.09		29522	VV	13
	13.20		21844	VV	14
AROCLOR-1016	13.50	0.220	319307	VV	15
AROCLOR-1016-2	14.03	0.218	136727	VE	16
	14.19		15775	EV	17
	14.35		8384	EV	18
AROCLOR-1016-3	14.48	0.214	91226	VV	19
	14.72		108629	VV	20
	14.89		92720	VV	21
	14.97		26818	VV	22
AROCLOR-1016-4	15.08	0.217	39075	VV	23
	15.21		16034	VE	24
	15.40		5595	EV	25
AROCLOR-1016-5	15.78	0.221	121042	VV	26
	15.92		45946	VV	27
	16.15		34956	VV	28
	16.25		62577	VV	29
	16.36		29706	VE	30
	16.71		16755	VV	31
	16.84		24047	VV	32
	16.89		23463	VV	33
	17.09		19558	VV	34
	17.29		82445	VE	35
	17.46		16894	EV	36
	17.69		94768	VE	37
	18.00		18378	EV	38
	18.36		12217	VE	39
	18.81		8925	VV	40
	19.05		22736	VE	41
	19.51		195098	VV	42
	19.76		71723	VV	43
	20.10		234808	VV	44
	20.34		48582	VV	45
AROCLOR-1260	20.58	0.219	260996	VE	46
	20.83		12176	EV	47
AROCLOR-1260-2	21.24	0.212	113146	VV	48
	21.47		92442	VV	49
	21.56		58865	VV	50

502

Sample ID: 0.2UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_003 Analysis Date: 2-MAY-1997 18:48:08

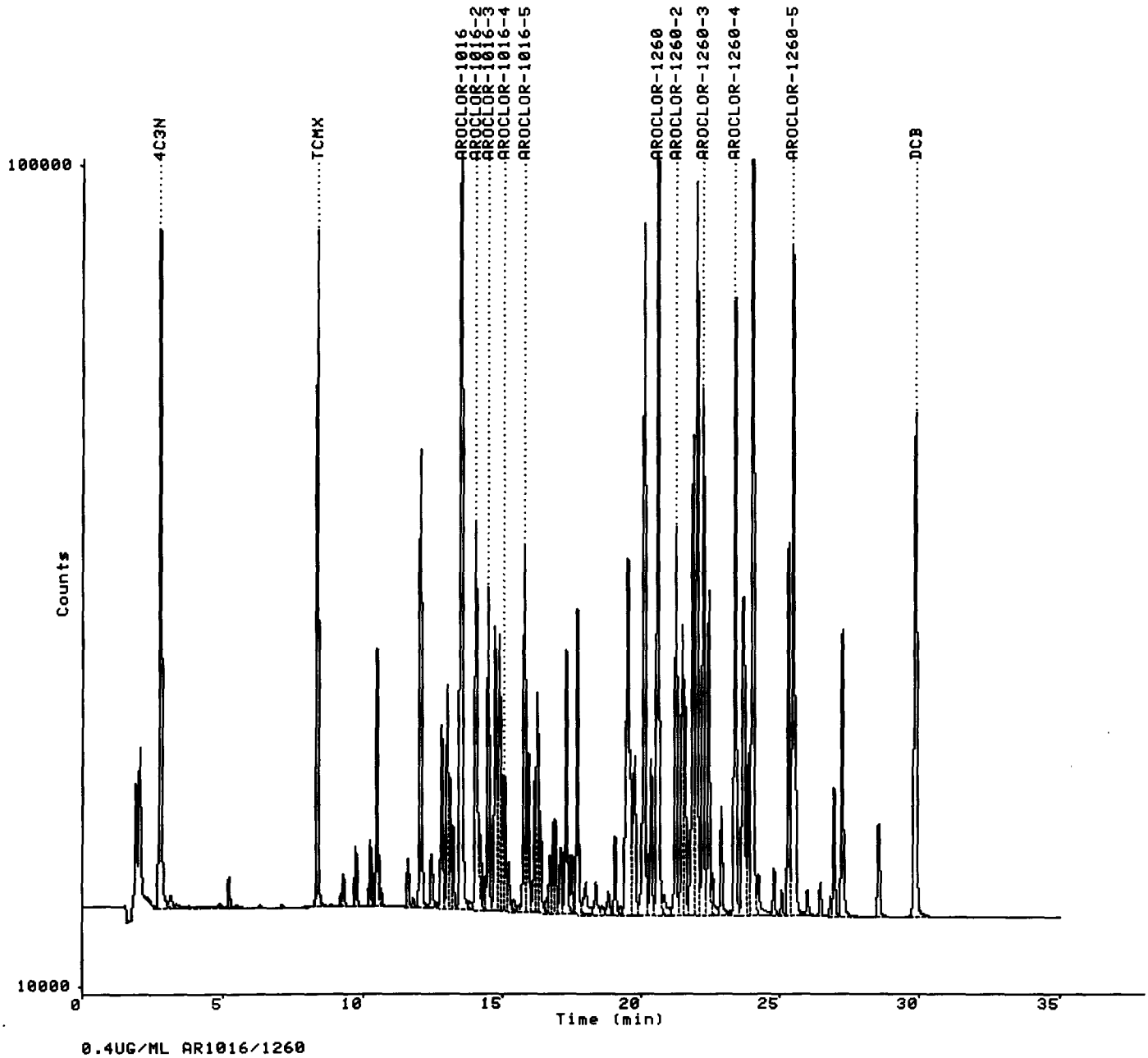
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	21.85		158407	VV	51
	21.99		222808	VV	52
AROCLOR-1260-3	22.21	0.217	159537	VV	53
	22.42		98892	VE	54
	22.56		15734	EV	55
	22.88		36303	VE	56
AROCLOR-1260-4	23.37	0.216	185753	VV	57
	23.66		142449	VV	58
	23.84		46022	VV	59
	24.00		346284	VE	60
	24.22		22466	EV	61
	24.78		16999	VV	62
	25.07		7965	VV	63
	25.31		106688	VV	64
AROCLOR-1260-5	25.47	0.209	231705	VB	65
	26.00		11137	VV	66
	26.46		12591	VV	67
	26.82		6270	VV	68
	26.95		36046	VV	69
	27.24		88237	VE	70
	28.55		31130	VB	71
DCB	29.85	0.0102	185397	VB	72

AR1016 average result...0.218
AR1260 average result...0.215

Run Number..... 3 End of Report.

Run Number..... 4
Sample Name..... 0.4UG/ML AR1016/1260
Run Date..... 2-MAY-1997 19:30:28
Raw File..... 6_0502_004
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_004 Analysis Date: 2-MAY-1997 19:30:28

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	2.75	0.0578	402602	BE	1
	3.15		12280	EV	2
	5.20		14694	BE	3
TCMX	8.34	0.0224	321553	VE	4
	9.27		17394	VE	5
	9.72		31242	VB	6
	10.24		33030	BV	7
	10.47		133734	VE	8
	10.63		7936	EB	9
	11.58		24155	BV	10
	11.78		5070	VV	11
	12.03		281129	VV	12
	12.43		34774	VE	13
	12.80		97660	VV	14
	13.00		119721	VV	15
	13.09		56880	VV	16
	13.20		40459	VV	17
AROCLOR-1016	13.50	0.437	572120	VE	18
AROCLOR-1016-2	14.03	0.437	247063	VE	19
	14.19		27436	EV	20
	14.35		15385	EV	21
AROCLOR-1016-3	14.47	0.432	167507	VV	22
	14.72		189125	VV	23
	14.88		166009	VV	24
	14.97		47749	VV	25
AROCLOR-1016-4	15.08	0.439	70443	VV	26
	15.21		29329	VE	27
	15.39		10207	EV	28
AROCLOR-1016-5	15.78	0.439	217373	VV	29
	15.92		83716	VV	30
	16.15		63238	VV	31
	16.25		117009	VV	32
	16.36		52120	VE	33
	16.58		7764	EV	34
	16.70		31083	VV	35
	16.84		44030	VV	36
	16.89		43011	VV	37
	17.09		36569	VV	38
	17.29		148065	VE	39
	17.46		31055	EV	40
	17.56		6930	EV	41
	17.69		169370	VE	42
	18.00		34952	EV	43
	18.36		23298	VV	44
	18.58		8031	VV	45
	18.81		17373	VB	46
	19.05		42592	BE	47
	19.26		6301	EV	48
	19.51		352300	VV	49
	19.75		131367	VV	50

Sample ID: 0.4UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_004 Analysis Date: 2-MAY-1997 19:30:28

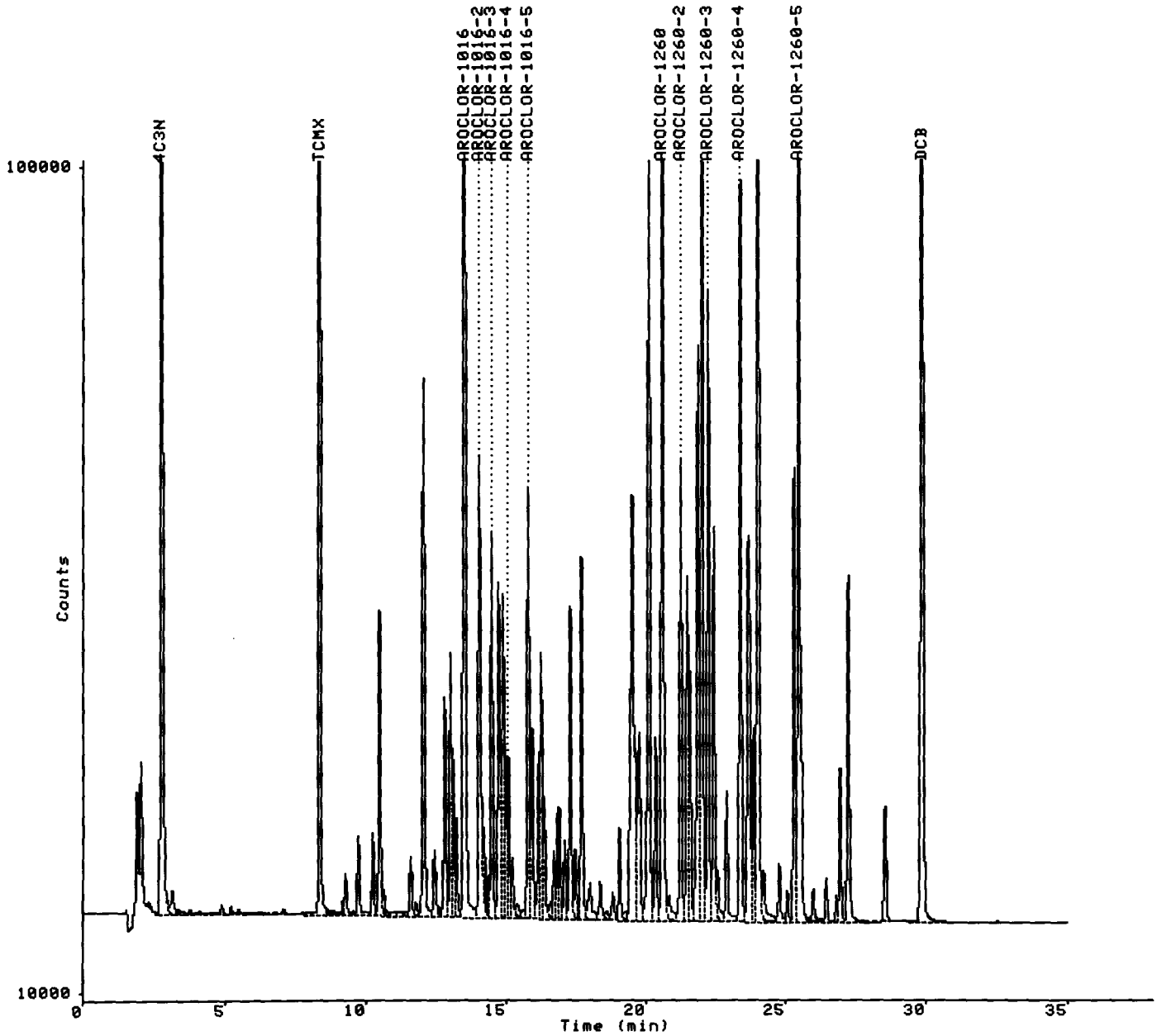
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	20.10		421297	VV	51
	20.34		87548	VV	52
AROCLOR-1260	20.58	0.432	469208	VE	53
	20.83		22005	EV	54
AROCLOR-1260-2	21.24	0.423	207888	VV	55
	21.47		167763	VV	56
	21.56		104315	VV	57
	21.85		290949	VV	58
	21.99		413233	VV	59
AROCLOR-1260-3	22.21	0.427	289030	VV	60
	22.42		179779	VE	61
	22.56		27228	EV	62
	22.88		62035	VE	63
AROCLOR-1260-4	23.37	0.422	336195	VV	64
	23.66		260623	VV	65
	23.84		83084	VV	66
	24.00		654630	VE	67
	24.22		35658	EV	68
	24.78		28677	VV	69
	25.07		13287	VV	70
	25.31		197505	VV	71
AROCLOR-1260-5	25.47	0.411	436860	VE	72
	26.00		17545	EV	73
	26.46		17734	VB	74
	26.82		8942	BV	75
	26.95		66058	VV	76
	27.24		163551	VE	77
	28.55		57733	BE	78
DCB	29.86	0.0220	361668	VB	79

AR1016 average result...0.437
AR1260 average result...0.423

Run Number..... 4 End of Report.

Run Number..... 5
Sample Name..... 0.5UG/ML AR1016/1260
Run Date..... 2-MAY-1997 20:12:57
Raw File..... 6_0502_005
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.5UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_005 Analysis Date: 2-MAY-1997 20:12:57

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	2.75	0.109	707685	BE	1
	3.15		22180	EV	2
	4.89		5614	VB	3
TCMX	8.34	0.0442	598698	VE	4
	9.18		6128	EV	5
	9.27		23851	VE	6
	9.72		46440	VV	7
	10.24		42988	VV	8
	10.47		160847	VE	9
	10.63		13976	EV	10
	11.58		32945	VE	11
	11.78		8951	EV	12
	12.03		335149	VV	13
	12.43		45181	VE	14
	12.80		119909	VV	15
	13.00		146322	VV	16
	13.09		63943	VV	17
	13.20		50367	VV	18
AROCLOR-1016	13.50	0.531	680998	VV	19
AROCLOR-1016-2	14.03	0.530	293859	VE	20
	14.19		32985	EV	21
	14.35		18794	EV	22
AROCLOR-1016-3	14.48	0.526	200241	VV	23
	14.72		223211	VV	24
	14.89		194924	VV	25
	14.97		57584	VV	26
AROCLOR-1016-4	15.08	0.532	83721	VV	27
	15.21		35406	VE	28
	15.40		12587	EV	29
	15.62		5886	VV	30
AROCLOR-1016-5	15.78	0.524	254848	VV	31
	15.92		99132	VV	32
	16.15		75557	VV	33
	16.25		139071	VV	34
	16.36		62270	VE	35
	16.58		9149	EV	36
	16.71		36791	VV	37
	16.85		51266	VV	38
	16.89		51283	VV	39
	17.09		43005	VV	40
	17.29		174422	VE	41
	17.46		36139	EV	42
	17.56		8081	EV	43
	17.69		199019	VE	44
	18.00		38944	EV	45
	18.37		26082	VE	46
	18.58		7704	EV	47
	18.81		18961	VB	48
	19.05		48967	BE	49
	19.26		6972	EV	50

Sample ID: 0.5UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_005 Analysis Date: 2-MAY-1997 20:12:57

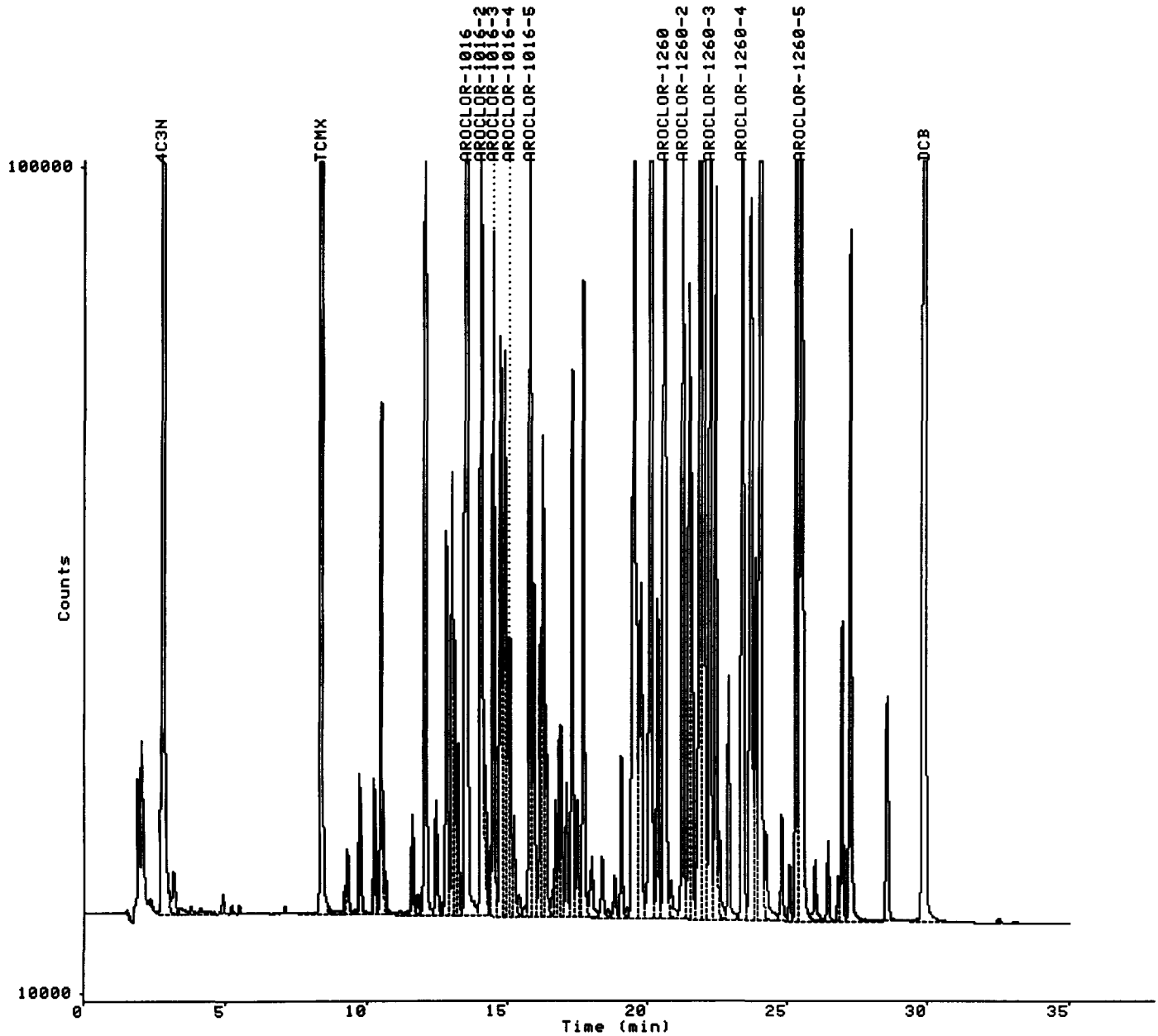
Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	19.51		415486	VV	51
	19.75		153104	VV	52
	20.10		495978	VV	53
	20.34		101961	VV	54
	20.58	0.519	553813	VE	55
AROCLOR-1260	20.83		24779	EV	56
	21.24	0.508	246160	VV	57
AROCLOR-1260-2	21.47		198548	VV	58
	21.56		122437	VV	59
	21.85		346140	VV	60
	21.99		492998	VV	61
	22.22	0.514	343269	VV	62
AROCLOR-1260-3	22.42		214126	VE	63
	22.56		31329	EV	64
	22.88		77744	VV	65
	23.37	0.510	400650	VV	66
AROCLOR-1260-4	23.67		311242	VV	67
	23.84		98963	VV	68
	24.00		787415	VE	69
	24.22		42277	EV	70
	24.78		34824	VV	71
	25.07		16289	VV	72
	25.31		237478	VV	73
	25.47	0.499	525967	VE	74
AROCLOR-1260-5	26.00		22107	EV	75
	26.46		23198	VV	76
	26.82		12708	VV	77
	26.96		79810	VV	78
	27.24		198036	VE	79
	28.55		70856	BB	80
	29.86	0.0423	664585	VB	81
DCB					

AR1016 average result...0.528
AR1260 average result...0.510

Run Number..... 5 End of Report.

Run Number..... 6
Sample Name..... 1.0UG/ML AR1016/1260
Run Date..... 2-MAY-1997 20:55:45
Raw File..... 6_0502_006
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



1.0UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_006 Analysis Date: 2-MAY-1997 20:55:45

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	2.75	0.194	1211675	BE	1
	3.15		37391	EV	2
	3.40		8821	EV	3
	3.79		6778	VV	4
	4.11		5383	VV	5
	4.89		12630	BV	6
	5.21		5700	VV	7
	7.07		5039	VE	8
TCMX	8.34	0.0980	1284539	VE	9
	8.76		5869	EV	10
	9.18		10073	EV	11
	9.27		39044	VE	12
	9.72		79178	VV	13
	10.24		72462	VV	14
	10.48		272152	VE	15
	10.63		20310	EV	16
	11.59		54278	VE	17
	11.78		12565	EV	18
	12.04		559869	VV	19
	12.43		76384	VE	20
	12.63		5557	EV	21
	12.80		211722	VV	22
	13.00		246821	VV	23
	13.09		111934	VV	24
	13.20		86573	VV	25
AROCLOR-1016	13.51	0.966	1187288	VV	26
AROCLOR-1016-2	14.03	0.967	514183	VE	27
	14.20		53079	EV	28
	14.36		30133	EV	29
AROCLOR-1016-3	14.48	0.971	356010	VV	30
	14.72		379660	VV	31
	14.89		337478	VV	32
	14.97		101605	VV	33
AROCLOR-1016-4	15.08	0.964	144926	VV	34
	15.22		56136	VE	35
	15.40		16661	EV	36
	15.62		6391	VV	37
AROCLOR-1016-5	15.79	0.968	450655	VV	38
	15.92		172633	VV	39
	16.16		130357	VV	40
	16.25		253052	VV	41
	16.36		104558	VE	42
	16.58		13294	EV	43
	16.71		61559	VV	44
	16.85		84672	VV	45
	16.89		88978	VV	46
	17.09		71671	VV	47
	17.29		296460	VV	48
	17.47		63846	VV	49
	17.57		11976	VV	50

Sample ID: 1.0UG/ML AR1016/126 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_006 Analysis Date: 2-MAY-1997 20:55:45

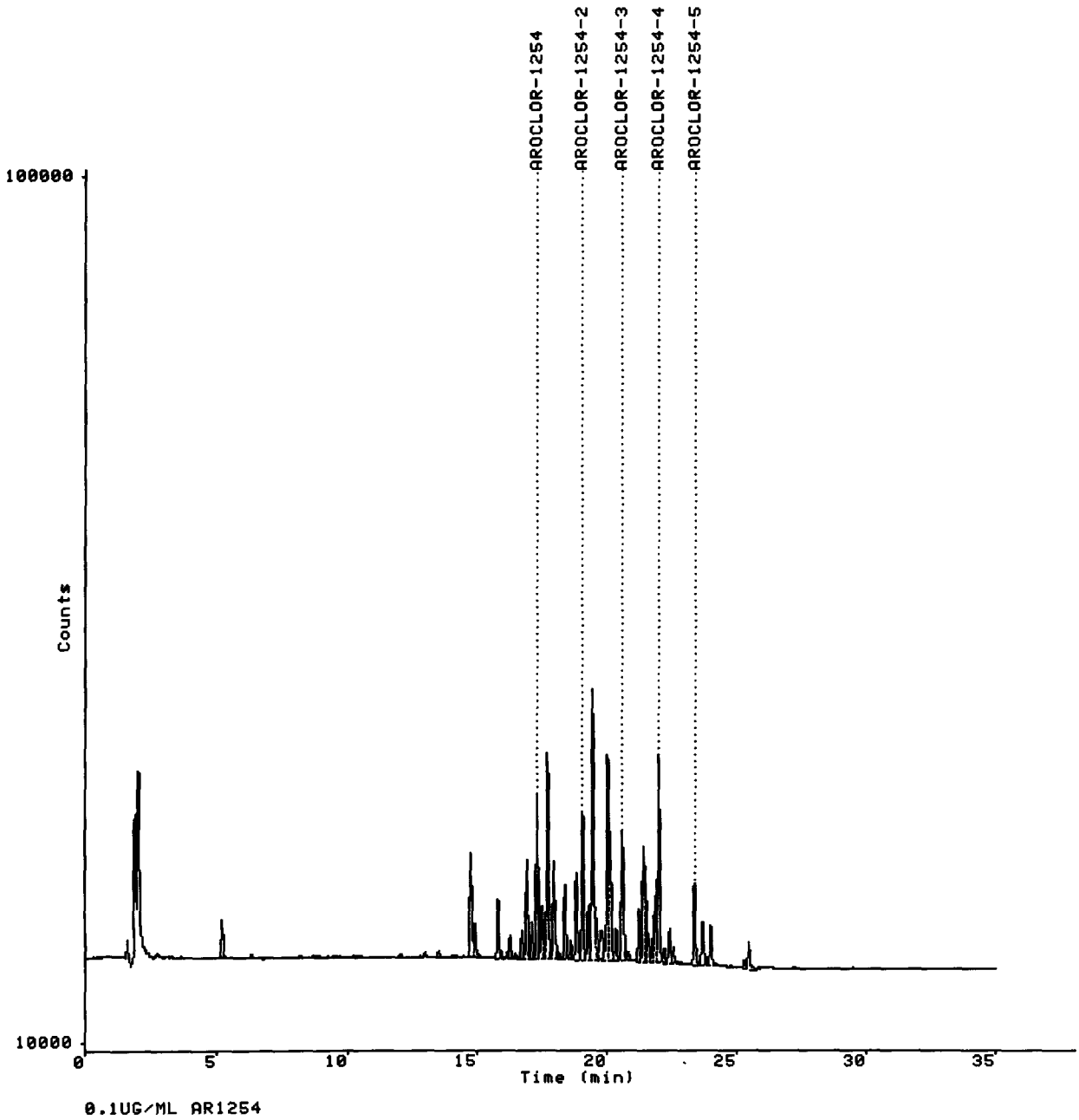
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	17.69		344390	VE	51
	18.00		52220	EV	52
	18.37		36257	VE	53
	18.59		6286	EV	54
	18.81		25609	VV	55
	19.05		83295	VE	56
	19.26		6774	EV	57
	19.51		741280	VV	58
	19.75		268318	VV	59
	20.10		881622	VV	60
	20.35		175244	VV	61
AROCLOR-1260	20.58	0.973	997658	VE	62
	20.83		30790	EV	63
AROCLOR-1260-2	21.24	0.983	459708	VV	64
	21.47		359432	VV	65
	21.57		215416	VV	66
	21.85		640796	VV	67
	21.99		919790	VV	68
AROCLOR-1260-3	22.22	0.978	629594	VV	69
	22.42		396774	VE	70
	22.56		48339	EV	71
	22.88		134083	VV	72
AROCLOR-1260-4	23.37	0.982	746613	VV	73
	23.67		588275	VV	74
	23.84		183418	VV	75
	24.00		1520744	VE	76
	24.22		66438	EV	77
	24.78		61354	VV	78
	25.07		29060	VV	79
	25.31		459340	VV	80
AROCLOR-1260-5	25.47	0.993	1028045	VE	81
	26.00		42303	EV	82
	26.46		41039	VV	83
	26.82		21822	VV	84
	26.96		155233	VV	85
	27.24		390613	VE	86
	28.55		137531	BE	87
DCB	29.86	0.0987	1507317	VB	88

AR1016 average result...0.967
AR1260 average result...0.982

Run Number..... 6 End of Report.

Run Number..... 7
Sample Name..... 0.1UG/ML AR1254
Run Date..... 2-MAY-1997 21:38:13
Raw File..... 6_0502_007
Method Name..... 6_AR1254_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.1UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1UG/ML AR1254
Datafile: 6_0502_007

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 2-MAY-1997 21:38:13

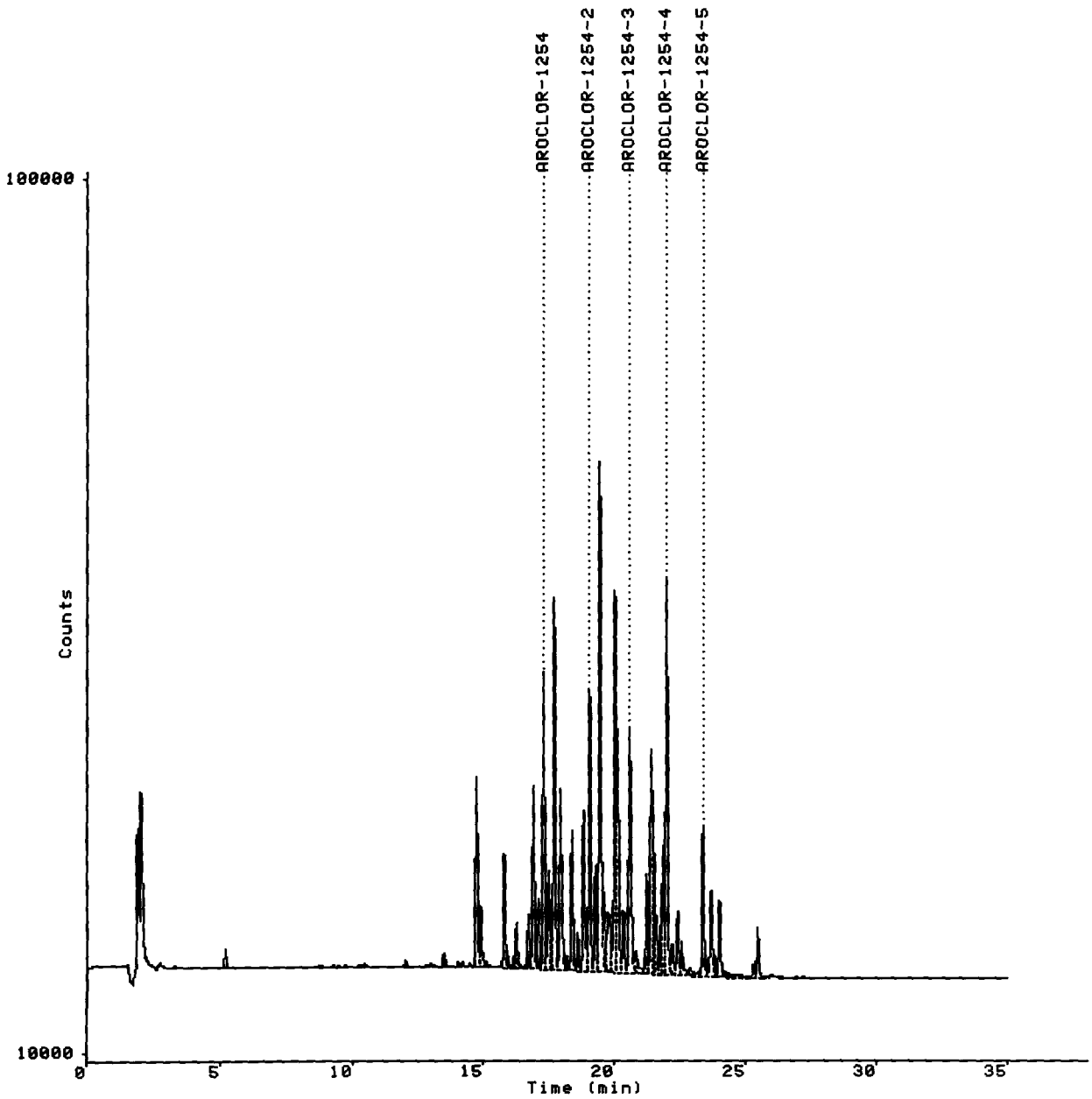
Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	5.21		17563	BE	1
	12.98		2561	VE	2
	13.49		4485	VE	3
	14.72		55478	VV	4
	14.89		19449	VE	5
	15.78		27260	BE	6
	16.25		10654	VV	7
	16.71		13386	VV	8
	16.90		49612	VV	9
	17.10		17385	VV	10
AROCLOR-1254	17.29	0.103	81853	VV	11
	17.47		25338	VV	12
	17.57		16513	VV	13
	17.70		106886	VV	14
	17.93		58190	VE	15
	18.16		2976	EV	16
	18.37		37825	VV	17
	18.59		8425	VB	18
	18.81		46759	BV	19
AROCLOR-1254-2	19.05	0.102	70093	VV	20
	19.26		25468	VV	21
	19.44		150580	VE	22
	19.60		15978	EV	23
	19.78		27439	EV	24
	20.02		111034	VV	25
	20.10		68827	VV	26
	20.35		15699	VV	27
AROCLOR-1254-3	20.58	0.102	76730	VE	28
	20.82		4932	EB	29
	21.24		25112	BV	30
	21.40		56563	VV	31
	21.46		38513	VV	32
	21.60		13515	VV	33
	21.77		9199	VV	34
	21.85		33049	VV	35
AROCLOR-1254-4	21.99	0.101	105561	VE	36
	22.21		8440	EV	37
	22.42		17731	VV	38
	22.56		9149	VE	39
AROCLOR-1254-5	23.38	0.104	41176	BV	40
	23.70		25235	VE	41
	23.84		3603	EV	42
	24.01		20371	VE	43
	25.31		3837	BV	44
	25.47		17346	VB	45

Average result...0.102 UG/ML

Run Number..... 7 End of Report.

Run Number..... 8
Sample Name..... 0.2UG/ML AR1254
Run Date..... 2-MAY-1997 22:20:35
Raw File..... 6_0502_008
Method Name..... 6_AR1254_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.2UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2UG/ML AR1254 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_008 Analysis Date: 2-MAY-1997 22:20:35

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.21		8467	BE	1
	12.04		3546	VB	2
	13.49		8592	BB	3
	14.72		94596	BV	4
	14.89		34102	VE	5
	15.79		53683	BE	6
	15.92		4352	EV	7
	16.16		4304	VV	8
	16.25		21396	VE	9
	16.71		25809	VV	10
	16.90		93170	VV	11
	17.10		34022	VV	12
AROCLOR-1254	17.29	0.222	149908	VV	13
	17.47		47978	VV	14
	17.57		28893	VV	15
	17.70		195233	VV	16
	17.93		110003	VE	17
	18.16		7219	EV	18
	18.37		72909	VV	19
	18.59		19392	VV	20
	18.81		93811	VV	21
AROCLOR-1254-2	19.05	0.218	138104	VV	22
	19.26		51420	VV	23
	19.44		285739	VE	24
	19.60		32836	EV	25
	19.78		56880	EV	26
	20.02		210025	VV	27
	20.10		131474	VV	28
	20.34		35772	VV	29
AROCLOR-1254-3	20.58	0.227	150857	VE	30
	20.82		18318	EV	31
	21.24		52876	VV	32
	21.40		114200	VV	33
	21.46		71638	VV	34
	21.60		29084	VV	35
	21.77		20043	VV	36
	21.85		65467	VV	37
AROCLOR-1254-4	21.99	0.215	205465	VE	38
	22.21		20436	EV	39
	22.42		33918	VV	40
	22.56		23030	VE	41
	22.88		7074	EV	42
	23.21		3019	VV	43
AROCLOR-1254-5	23.38	0.218	78251	VV	44
	23.70		51944	VE	45
	23.84		8459	EV	46
	24.01		42477	VE	47
	24.22		4071	EV	48
	24.38		4229	EV	49
	24.78		3319	VV	50

Sample ID: 0.2UG/ML AR1254 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_008 Analysis Date: 2-MAY-1997 22:20:35

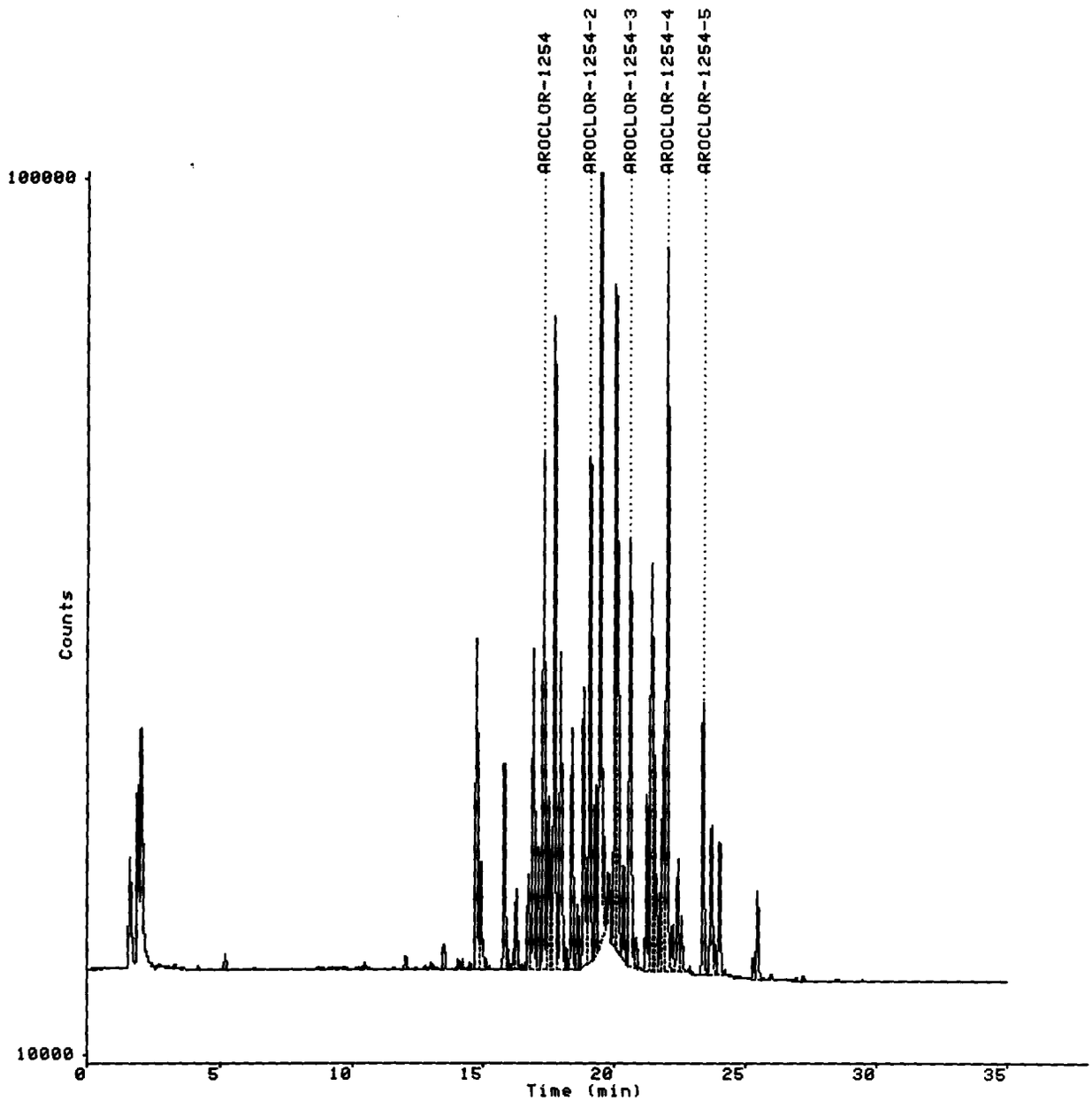
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	25.31		7312	VV	51
	25.47		28148	VB	52

Average result...0.220 UG/ML

Run Number..... 8 End of Report.

Run Number..... 9
Sample Name..... 0.4UG/ML AR1254
Run Date..... 2-MAY-1997 23:02:53
Raw File..... 6_0502_009
Method Name..... 6_AR1254_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.4UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1254
Datafile: 6_0502_009

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 2-MAY-1997 23:02:53

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	5.21		6786	BE	1
	10.48		2753	VE	2
	12.04		7097	VE	3
	13.00		2897	VV	4
	13.49		16289	BE	5
	14.03		4530	VV	6
	14.20		4628	VE	7
	14.48		3061	VB	8
	14.72		167066	BV	9
	14.89		62556	VE	10
	15.08		3107	EV	11
	15.79		102609	BE	12
	15.92		7779	EV	13
	16.16		7699	VV	14
	16.25		38622	VE	15
	16.71		45705	VV	16
	16.90		164540	VV	17
	17.10		59417	VV	18
AROCLOR-1254	17.29	0.420	262685	VV	19
	17.47		83554	VV	20
	17.57		49877	VV	21
	17.70		341726	VV	22
	17.93		190252	VE	23
	18.16		9561	EV	24
	18.37		123129	VV	25
	18.59		29462	VB	26
	18.82		161530	BV	27
AROCLOR-1254-2	19.05	0.397	243344	VB	28
	19.26		75460	BB	29
	19.44		475819	BE	30
	19.60		29118	EB	31
	19.77		12705	BB	32
	20.02		346715	BV	33
	20.10		207599	VV	34
	20.35		43306	VB	35
AROCLOR-1254-3	20.58	0.393	249466	BE	36
	20.82		17035	EB	37
	21.24		82486	BV	38
	21.40		210562	VV	39
	21.46		120921	VV	40
	21.60		45991	VV	41
	21.77		31349	VV	42
	21.85		113796	VV	43
AROCLOR-1254-4	21.99	0.404	369589	VE	44
	22.22		26724	EV	45
	22.42		56171	VV	46
	22.56		27586	VB	47
	22.88		2566	BB	48
AROCLOR-1254-5	23.38	0.393	135476	BV	49
	23.70		88169	VE	50

Sample ID: 0.4UG/ML AR1254 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_009 Analysis Date: 2-MAY-1997 23:02:53

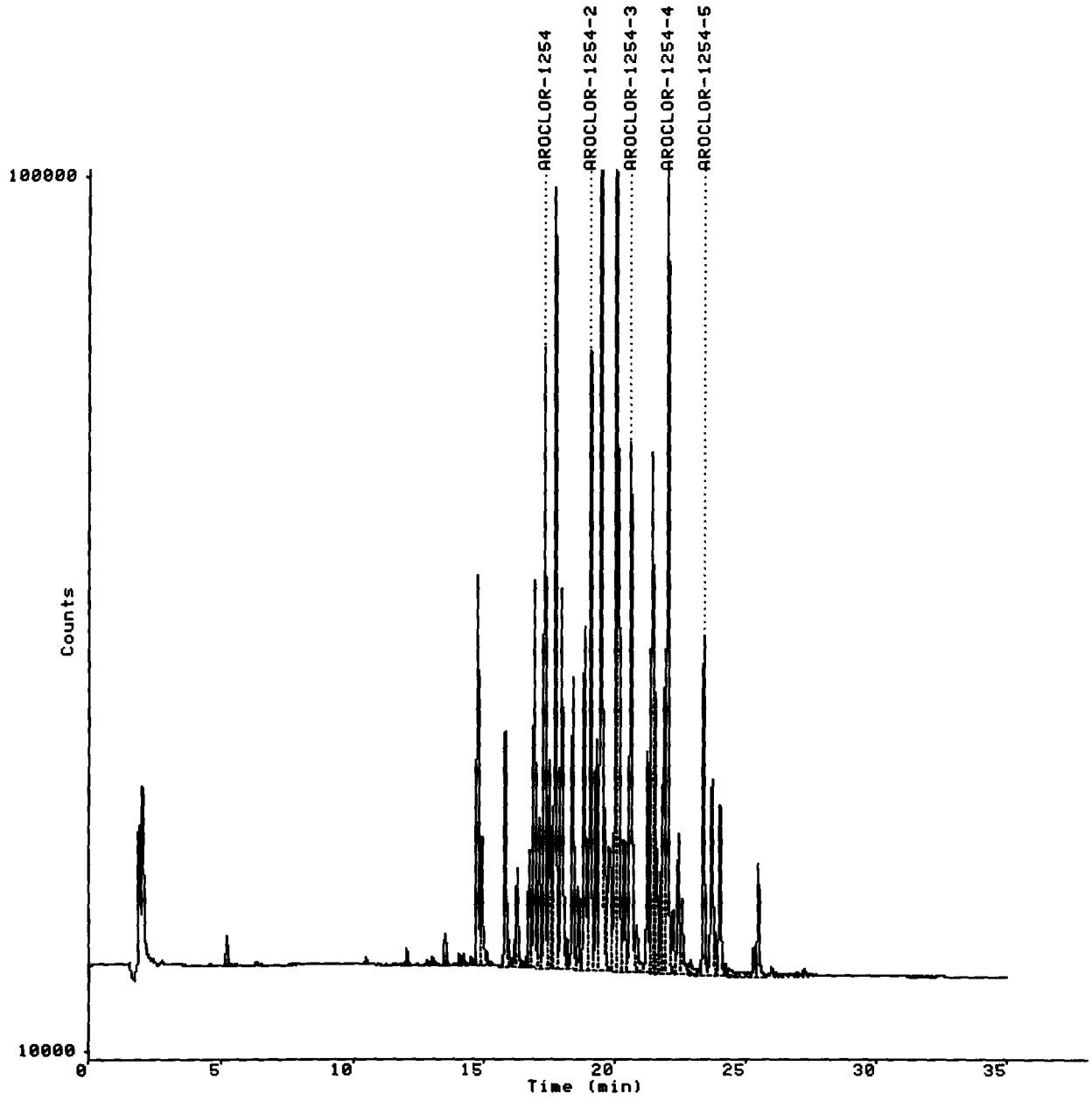
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.84		12642	EV	51
	24.01		70530	VE	52
	25.31		10287	BV	53
	25.47		46184	VB	54
	26.00		2931	VE	55

Average result...0.401 UG/ML

Run Number..... 9 End of Report.

Run Number..... 10
Sample Name..... 0.5UG/ML AR1254
Run Date..... 2-MAY-1997 23:46:03
Raw File..... 6_0502_010
Method Name..... 6_AR1254_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.5UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5UG/ML AR1254 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_010 Analysis Date: 2-MAY-1997 23:46:03

Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	5.21		13444	BE	1
	10.48		3210	BB	2
	12.04		8251	BB	3
	13.00		4445	VV	4
	13.50		19617	BE	5
	14.04		5552	BV	6
	14.20		5581	VE	7
	14.48		3743	VB	8
	14.73		198033	BV	9
	14.89		74225	VE	10
	15.08		3610	EV	11
	15.79		115657	VE	12
	15.92		9789	EV	13
	16.05		3076	EV	14
	16.16		9791	VV	15
	16.25		48372	VE	16
	16.58		3712	EV	17
	16.71		57134	VV	18
	16.90		200447	VV	19
	17.10		74170	VV	20
AROCLOR-1254	17.29	0.514	316555	VV	21
	17.47		102208	VV	22
	17.57		60824	VV	23
	17.70		413407	VV	24
	17.94		235313	VE	25
	18.16		14690	EV	26
	18.37		153756	VV	27
	18.59		41355	VV	28
	18.82		201684	VV	29
AROCLOR-1254-2	19.06	0.505	306604	VV	30
	19.27		113027	VV	31
	19.44		636060	VE	32
	19.60		63863	EV	33
	19.78		120654	EV	34
	20.02		466468	VV	35
	20.10		273544	VV	36
	20.35		73848	VV	37
AROCLOR-1254-3	20.58	0.518	323866	VE	38
	20.83		35792	EV	39
	21.24		112252	VV	40
	21.41		275767	VV	41
	21.46		142459	VV	42
	21.60		61162	VV	43
	21.77		42212	VV	44
	21.86		145071	VV	45
AROCLOR-1254-4	22.00	0.509	461744	VE	46
	22.22		40505	EV	47
	22.42		72370	VV	48
	22.56		45797	VE	49
	22.88		13884	EV	50

Sample ID: 0.5UG/ML AR1254 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_010 Analysis Date: 2-MAY-1997 23:46:03

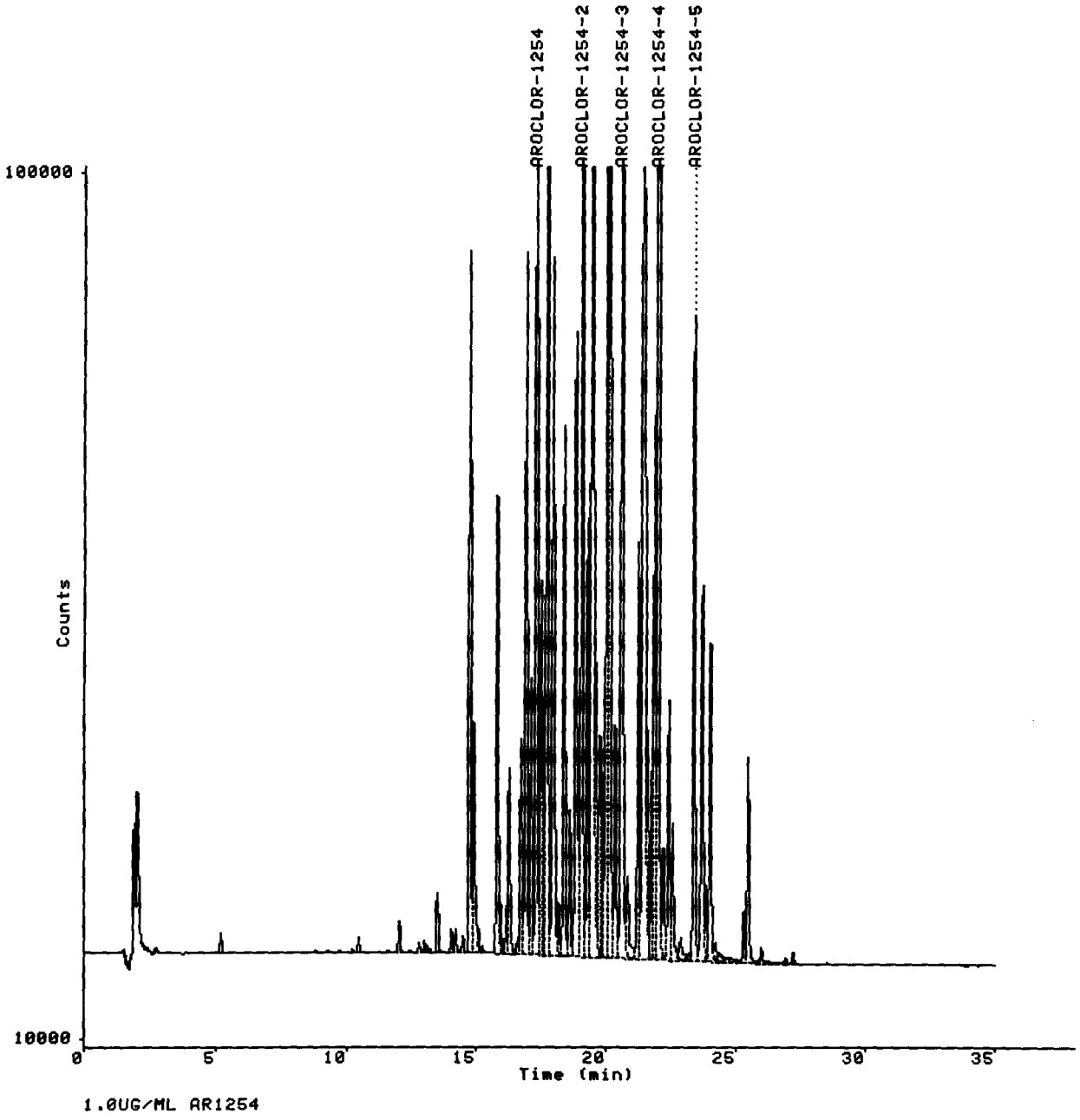
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.23		4469	VV	51
AROCLOR-1254-5	23.38	0.518	176118	VV	52
	23.70		116660	VE	53
	23.84		18234	EV	54
	24.01		94076	VE	55
	24.22		7742	EV	56
	24.39		7411	EV	57
	24.69		3244	VV	58
	24.79		5171	VV	59
	25.07		3431	VV	60
	25.31		15345	VV	61
	25.47		61377	VB	62
	26.00		8016	BV	63
	26.14		2778	VV	64
	26.74		3025	VV	65
	26.96		3069	VV	66
	27.25		5522	VV	67
	27.49		2611	VV	68

Average result...0.513 UG/ML

Run Number..... 10 End of Report.

Run Number..... 11
Sample Name..... 1.0UG/ML AR1254
Run Date..... 3-MAY-1997 00:28:37
Raw File..... 6_0502_011
Method Name..... 6_AR1254_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



1.0UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0UG/ML AR1254 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_011 Analysis Date: 3-MAY-1997 00:28:37

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.21		9136	BB	1
	10.48		6589	VE	2
	12.03		17090	VE	3
	12.80		4508	VB	4
	13.00		5843	BV	5
	13.09		2822	VV	6
	13.49		38207	BE	7
	14.03		11222	BV	8
	14.20		11451	VE	9
	14.48		7699	VB	10
	14.72		359476	BV	11
	14.89		136717	VE	12
	15.08		7130	EV	13
	15.21		3097	EV	14
	15.79		232505	BE	15
	15.92		17403	EV	16
	16.05		5743	EV	17
	16.16		19168	VV	18
	16.25		94409	VE	19
	16.58		7069	EV	20
	16.71		108099	VV	21
	16.90		370230	VV	22
	17.10		139007	VV	23
AROCLOR-1254	17.29	0.980	583114	VV	24
	17.47		188956	VV	25
	17.57		113366	VV	26
	17.69		762276	VV	27
	17.93		437365	VE	28
	18.16		25698	EV	29
	18.37		283228	VV	30
	18.59		74741	VV	31
	18.81		385874	VV	32
AROCLOR-1254-2	19.05	0.995	594050	VV	33
	19.26		215664	VV	34
	19.44		1221747	VE	35
	19.60		104157	EV	36
	19.77		148125	EV	37
	19.82		70928	VV	38
	20.02		871032	VV	39
	20.10		516104	VV	40
	20.34		130860	VV	41
AROCLOR-1254-3	20.58	0.988	603021	VE	42
	20.82		60630	EV	43
	21.24		211428	VV	44
	21.40		838986	VE	45
	21.60		79951	EV	46
	21.77		77656	VV	47
	21.85		275957	VV	48
AROCLOR-1254-4	21.99	0.991	881475	VE	49
	22.21		69393	EV	50

Sample ID: 1.0UG/ML AR1254 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_011 Analysis Date: 3-MAY-1997 00:28:37

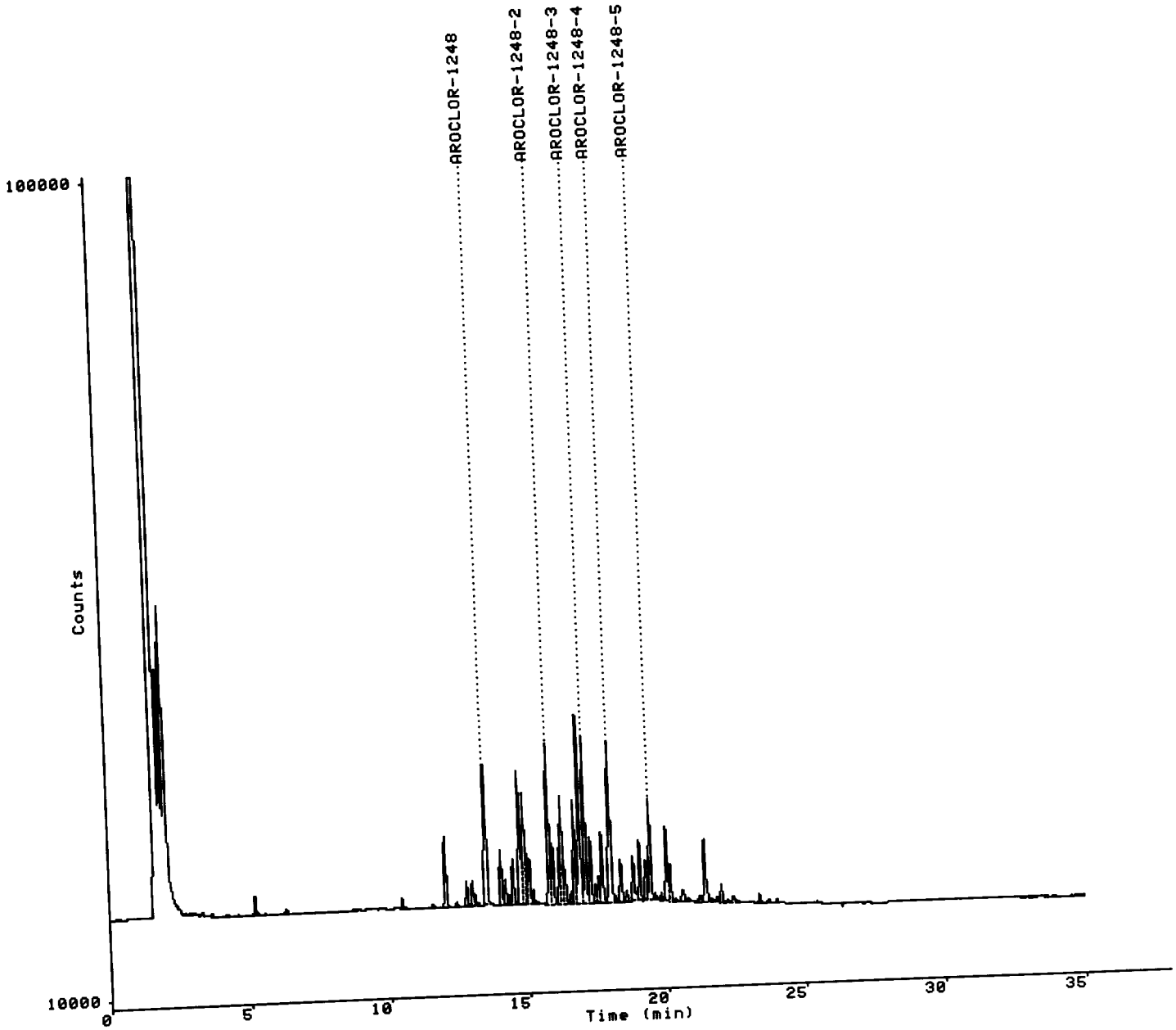
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	22.42		134553	VV	51
	22.56		79419	VE	52
	22.88		20652	EV	53
	23.12		2712	VV	54
	23.23		4394	VV	55
AROCLOR-1254-5	23.38	0.990	330248	VV	56
	23.70		222728	VE	57
	23.84		32636	EV	58
	24.01		176533	VE	59
	24.22		12197	EV	60
	24.38		9387	EV	61
	24.70		3663	VV	62
	24.78		4609	VV	63
	25.31		25445	VV	64
	25.47		110679	VB	65
	26.00		8565	VE	66
	26.95		2861	BV	67
	27.24		6314	VE	68

Average result...0.989 UG/ML

Run Number..... 11 End of Report.

Run Number..... 12
Sample Name..... 0.1 UG/ML AR1248
Run Date..... 3-MAY-1997 01:10:51
Raw File..... 6_0502_012
Method Name..... 6_AR1248_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.1 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1 UG/ML AR1248
Datafile: 6_0502_012

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 01:10:51

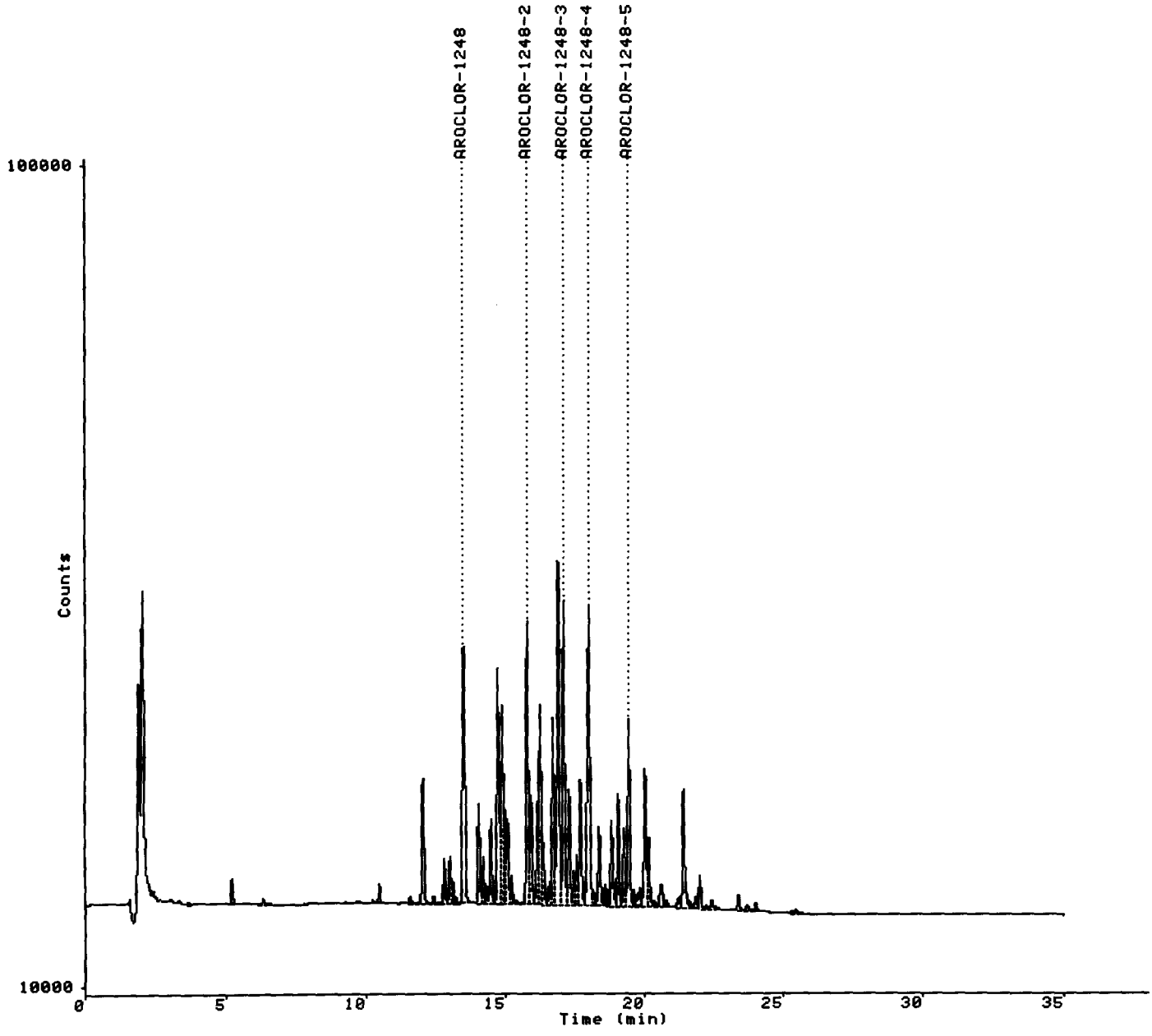
Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		9038	BE	1
	10.47		4528	BE	2
	12.02		38670	BB	3
	12.79		11412	BV	4
	12.99		12797	VV	5
	13.08		5320	VV	6
AROCLOR-1248	13.49	0.116	97347	BB	7
	14.02		27553	BV	8
	14.19		12419	VV	9
	14.47		21560	VV	10
	14.72		81607	VV	11
	14.88		61552	VV	12
	14.97		21047	VV	13
	15.07		22751	VV	14
	15.21		7476	VE	15
AROCLOR-1248-2	15.78	0.117	86703	VV	16
	15.92		29634	VE	17
	16.15		25822	VV	18
	16.24		53976	VV	19
	16.35		15268	VV	20
	16.57		5058	VV	21
	16.70		51980	VV	22
	16.89		117117	VV	23
AROCLOR-1248-3	17.09	0.117	87751	VV	24
	17.28		36049	VV	25
	17.46		9194	VV	26
	17.56		13186	VV	27
	17.69		38790	VV	28
AROCLOR-1248-4	18.00	0.118	108202	VE	29
	18.36		24442	VV	30
	18.58		4988	VB	31
	18.81		28434	BV	32
	19.04		29832	VV	33
	19.25		19591	VV	34
AROCLOR-1248-5	19.43	0.115	55518	VE	35
	20.01		39978	VV	36
	20.14		19889	VE	37
	20.59		8474	BV	38
	21.39		37682	VE	39
	21.98		8992	VE	40
	22.40		4075	VE	41
	23.37		4633	BV	42

Average result...0.117 UG/ML

Run Number..... 12 End of Report.

Run Number..... 13
Sample Name..... 0.2 UG/ML AR1248
Run Date..... 3-MAY-1997 01:53:17
Raw File..... 6_0502_013
Method Name..... 6_AR1248_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.2 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2 UG/ML AR1248 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_013 Analysis Date: 3-MAY-1997 01:53:17

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		12033	BB	1
	10.46		8718	BE	2
	12.02		72273	VV	3
	12.42		4012	VE	4
	12.79		22080	VV	5
	12.99		23916	VV	6
	13.08		10267	VV	7
AROCLOR-1248	13.49	0.230	179327	BB	8
	14.02		51506	BV	9
	14.19		23625	VV	10
	14.34		7813	VV	11
	14.47		41082	VV	12
	14.71		146058	VV	13
	14.88		111497	VV	14
	14.97		39032	VV	15
	15.07		42064	VV	16
	15.20		14565	VE	17
AROCLOR-1248-2	15.78	0.229	156058	VV	18
	15.91		55876	VV	19
	16.15		49909	VV	20
	16.24		102445	VV	21
	16.35		29829	VV	22
	16.57		10627	VV	23
	16.70		97098	VV	24
	16.89		214582	VV	25
AROCLOR-1248-3	17.08	0.232	163025	VV	26
	17.28		66458	VV	27
	17.46		17737	VV	28
	17.56		25303	VV	29
	17.68		72432	VV	30
AROCLOR-1248-4	17.99	0.230	203631	VE	31
	18.14		6799	EV	32
	18.36		47268	VV	33
	18.58		11437	VV	34
	18.80		52338	VV	35
	19.04		56640	VV	36
	19.25		40123	VV	37
AROCLOR-1248-5	19.42	0.229	108278	VE	38
	19.59		8484	EV	39
	19.82		12896	EV	40
	20.01		78336	VV	41
	20.14		39681	VE	42
	20.33		4137	EV	43
	20.58		17541	VV	44
	21.22		5970	BV	45
	21.39		70462	VE	46
	21.84		5275	VV	47
	21.98		17449	VE	48
	22.40		4616	VV	49
	23.37		8172	BV	50

Sample ID: 0.2 UG/ML AR1248 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_013 Analysis Date: 3-MAY-1997 01:53:17

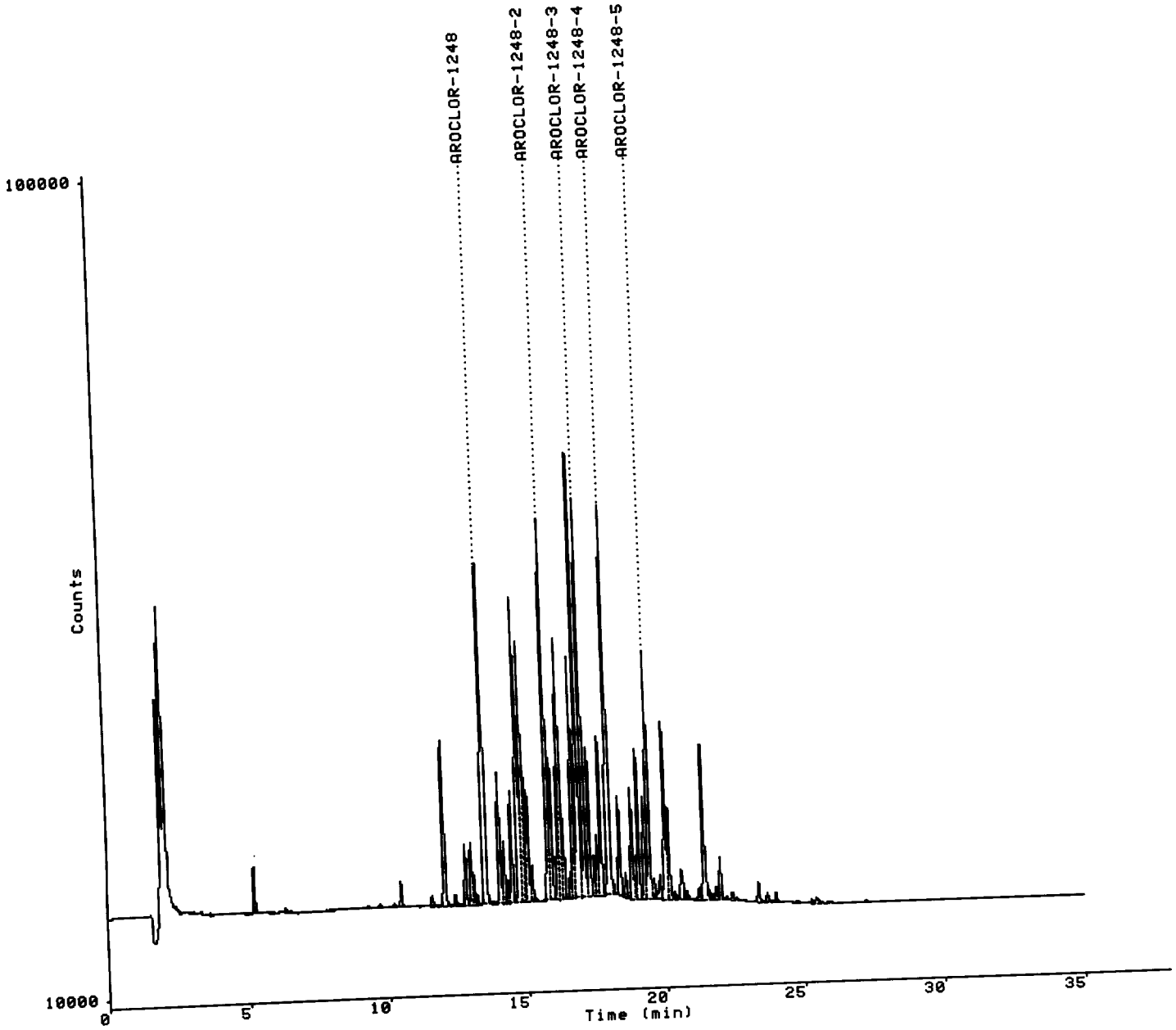
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.69		4118	VE	51

Average result...0.230 UG/ML

Run Number..... 13 End of Report.

Run Number..... 14
Sample Name..... 0.4 UG/ML AR1248
Run Date..... 3-MAY-1997 02:35:38
Raw File..... 6_0502_014
Method Name..... 6_AR1248_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.4 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4 UG/ML AR1248 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_014 Analysis Date: 3-MAY-1997 02:35:38

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		22195	BV	1
	10.46		12044	VE	2
	11.57		4605	BE	3
	12.02		95840	VV	4
	12.41		5493	VE	5
	12.79		29970	VV	6
	12.99		31863	VV	7
	13.08		13942	VV	8
	13.19		4672	VB	9
AROCLOR-1248	13.49	0.316	240851	BE	10
	14.02		69838	VV	11
	14.19		32229	VV	12
	14.34		10943	VV	13
	14.47		55717	VV	14
	14.71		191098	VV	15
	14.88		147296	VV	16
	14.96		50971	VV	17
	15.07		55606	VV	18
	15.20		19191	VE	19
AROCLOR-1248-2	15.78	0.319	211664	VV	20
	15.91		72917	VV	21
	16.15		64407	VV	22
	16.24		136109	VV	23
	16.35		36668	VV	24
	16.57		12066	VV	25
	16.70		125816	VV	26
	16.89		278353	VV	27
AROCLOR-1248-3	17.08	0.305	211196	VV	28
	17.28		82395	VV	29
	17.46		20243	VV	30
	17.56		29940	VV	31
	17.68		87974	VB	32
AROCLOR-1248-4	17.99	0.296	259986	BE	33
	18.36		53395	BB	34
	18.58		11393	BB	35
	18.80		64426	BE	36
	18.92		7751	EV	37
	19.04		77052	VV	38
	19.25		52430	VV	39
AROCLOR-1248-5	19.42	0.303	142650	VE	40
	19.59		10445	EV	41
	19.82		15940	EV	42
	20.01		102651	VV	43
	20.14		52334	VE	44
	20.33		5072	EV	45
	20.59		23104	VV	46
	20.78		4847	VB	47
	21.22		6742	BV	48
	21.39		93707	VE	49
	21.58		4058	EV	50

Sample ID: 0.4 UG/ML AR1248 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_014 Analysis Date: 3-MAY-1997 02:35:38

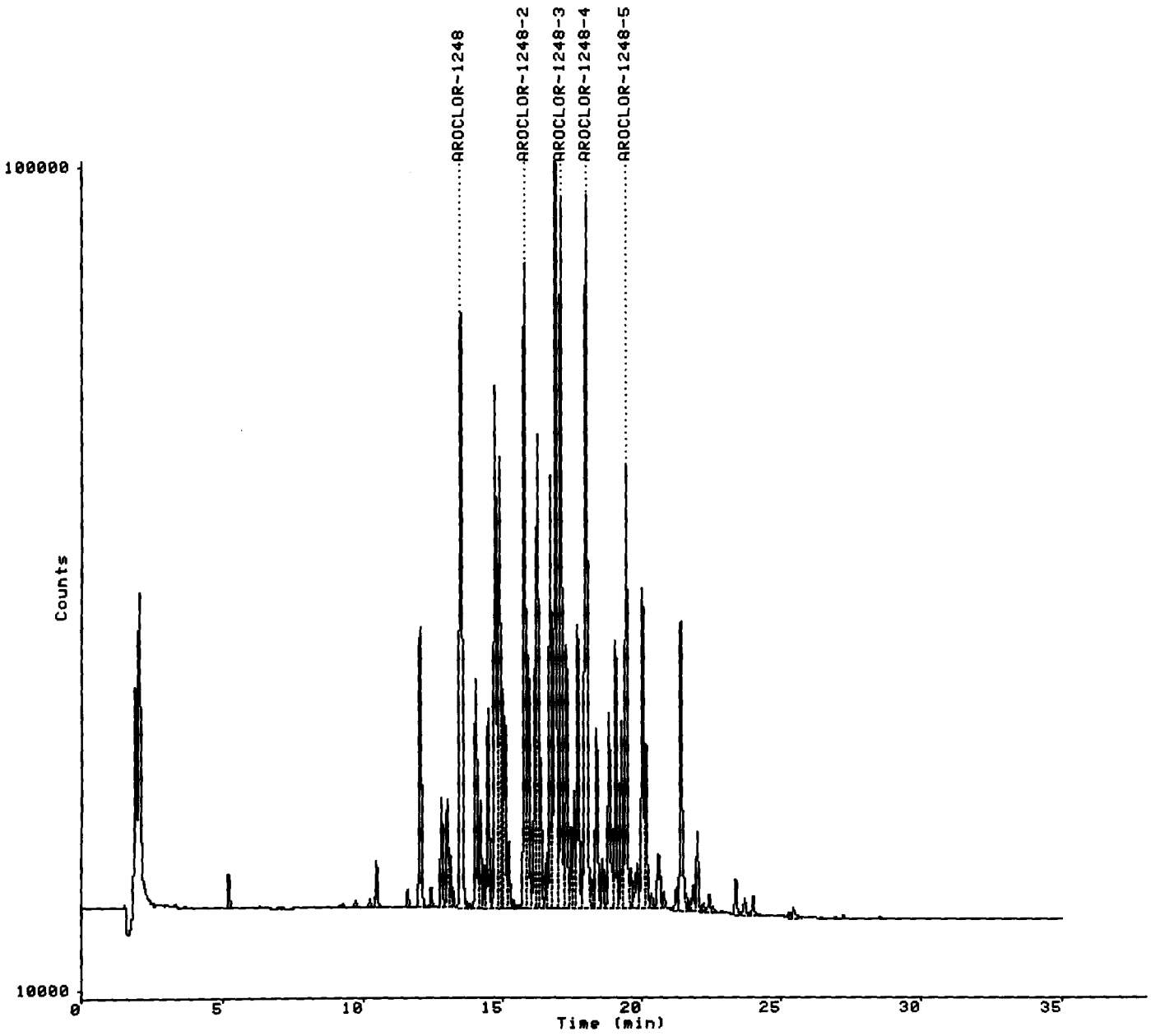
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	21.84		6725	VV	51
	21.98		22630	VE	52
	23.37		10332	BV	53
	23.69		5496	VE	54
	24.00		5004	BB	55

Average result...0.308 UG/ML

Run Number..... 14 End of Report.

Run Number..... 15
Sample Name..... 0.5 UG/ML AR1248
Run Date..... 3-MAY-1997 03:18:05
Raw File..... 6_0502_015
Method Name..... 6_AR1248_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.5 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5 UG/ML AR1248 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_015 Analysis Date: 3-MAY-1997 03:18:05

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		15906	BE	1
	10.46		21886	VE	2
	11.57		8448	BE	3
	12.02		163410	BV	4
	12.41		9641	VE	5
	12.79		53571	VV	6
	12.99		55388	VV	7
	13.08		24752	VV	8
	13.19		8531	VB	9
AROCLOR-1248	13.49	0.566	420406	BE	10
	13.73		4973	EV	11
	14.02		123151	VV	12
	14.19		57056	VV	13
	14.34		20218	VV	14
	14.46		100728	VV	15
	14.71		324260	VV	16
	14.88		258311	VV	17
	14.96		89507	VV	18
	15.06		97760	VV	19
	15.20		35674	VE	20
	15.35		5119	EV	21
AROCLOR-1248-2	15.77	0.565	363534	VV	22
	15.91		131289	VV	23
	16.14		117009	VV	24
	16.24		248116	VV	25
	16.35		70415	VV	26
	16.57		26545	VV	27
	16.70		228191	VV	28
	16.89		493160	VV	29
AROCLOR-1248-3	17.08	0.563	380931	VV	30
	17.28		150753	VV	31
	17.45		41498	VV	32
	17.56		58744	VV	33
	17.68		165572	VV	34
AROCLOR-1248-4	17.99	0.560	485898	VE	35
	18.14		13282	EV	36
	18.36		107672	VV	37
	18.58		27266	VV	38
	18.80		130354	VV	39
	19.04		140733	VV	40
	19.25		96991	VV	41
AROCLOR-1248-5	19.42	0.554	258503	VE	42
	19.59		19494	EV	43
	19.82		31179	EV	44
	20.00		185186	VV	45
	20.14		93326	VE	46
	20.33		9634	EV	47
	20.59		42631	VV	48
	20.77		9194	VB	49
	21.22		11527	BV	50

Sample ID: 0.5 UG/ML AR1248 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_015 Analysis Date: 3-MAY-1997 03:18:05

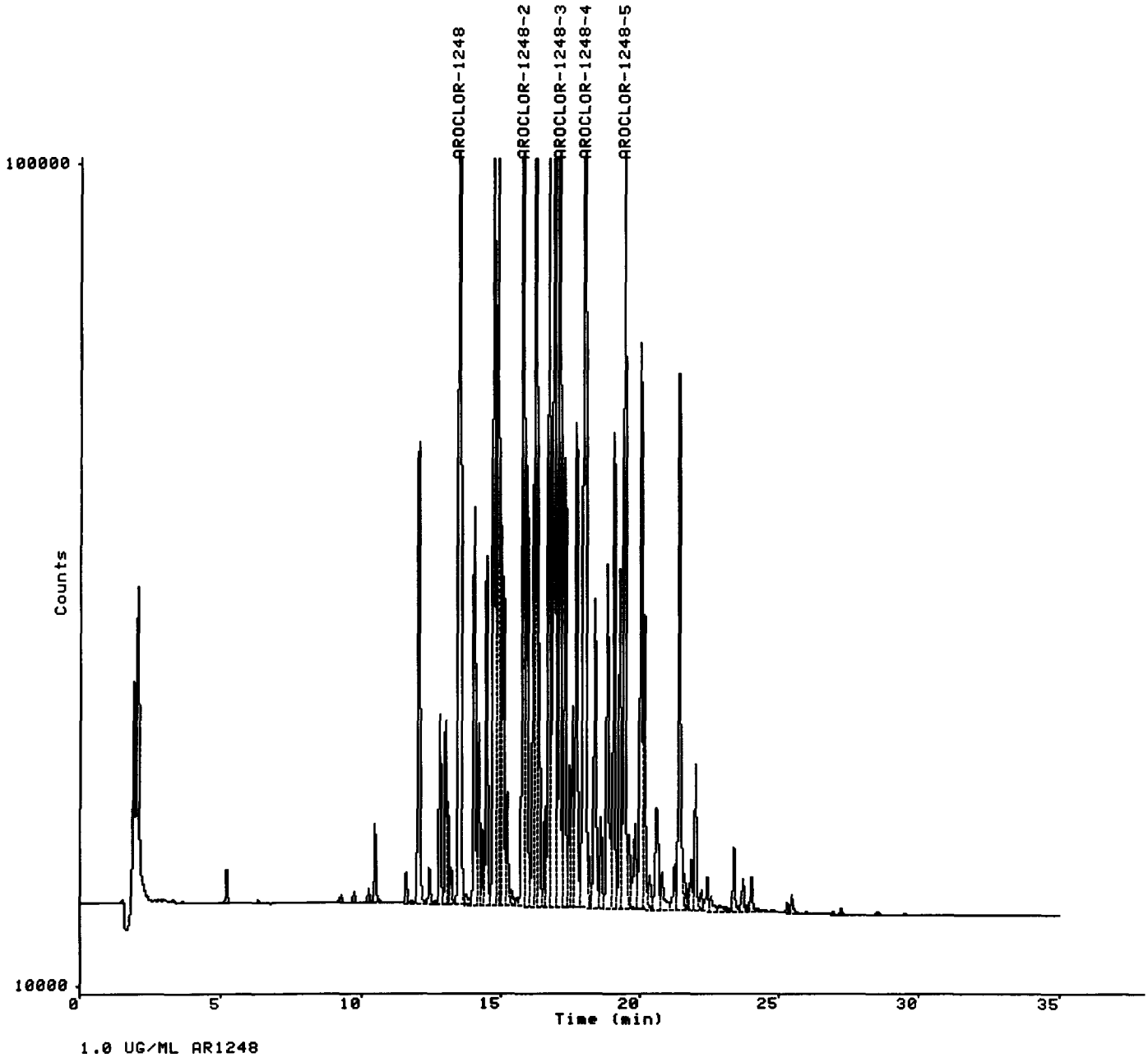
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	21.39		172290	VE	51
	21.58		7621	EV	52
	21.75		5159	EV	53
	21.84		13246	VV	54
	21.98		42716	VE	55
	22.20		5276	EV	56
	22.40		9600	VV	57
	23.36		18053	BV	58
	23.69		10327	VE	59
	23.99		9899	VE	60
	25.46		6887	VB	61

Average result...0.562 UG/ML

Run Number..... 15 End of Report.

Run Number..... 16
Sample Name..... 1.0 UG/ML AR1248
Run Date..... 3-MAY-1997 04:00:27
Raw File..... 6_0502_016
Method Name..... 6_AR1248_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



1.0 UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0 UG/ML AR1248 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_016 Analysis Date: 3-MAY-1997 04:00:27

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.20		16209	BE	1
	9.71		5123	BB	2
	10.22		6763	BV	3
	10.46		38595	VE	4
	11.57		15640	BE	5
	12.02		277057	VV	6
	12.41		19060	VE	7
	12.78		96347	VV	8
	12.99		96820	VV	9
	13.07		44319	VV	10
	13.19		17190	VV	11
AROCLOR-1248	13.49	0.993	727219	VE	12
	13.73		10540	EV	13
	14.02		215286	VV	14
	14.18		99711	VV	15
	14.34		36859	VV	16
	14.46		180608	VV	17
	14.71		546896	VV	18
	14.87		433154	VV	19
	14.96		161478	VV	20
	15.06		169261	VV	21
	15.20		63785	VE	22
	15.34		11204	EV	23
	15.61		5704	VV	24
AROCLOR-1248-2	15.77	0.992	627119	VV	25
	15.91		231317	VV	26
	16.14		202116	VV	27
	16.24		445578	VV	28
	16.35		127141	VV	29
	16.57		50052	VV	30
	16.70		401675	VV	31
	16.89		854070	VV	32
AROCLOR-1248-3	17.08	0.998	666975	VV	33
	17.28		260932	VV	34
	17.45		73918	VV	35
	17.56		104285	VV	36
	17.68		289524	VV	37
AROCLOR-1248-4	17.99	1.00	866012	VE	38
	18.14		23922	EV	39
	18.24		5018	EV	40
	18.36		192326	VV	41
	18.58		53736	VV	42
	18.80		237325	VV	43
	19.04		257536	VV	44
	19.25		179801	VV	45
AROCLOR-1248-5	19.42	1.00	466758	VE	46
	19.59		37511	EV	47
	19.82		63366	EV	48
	20.00		336083	VV	49
	20.14		172173	VE	50

Sample ID: 1.0 UG/ML AR1248 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_016 Analysis Date: 3-MAY-1997 04:00:27

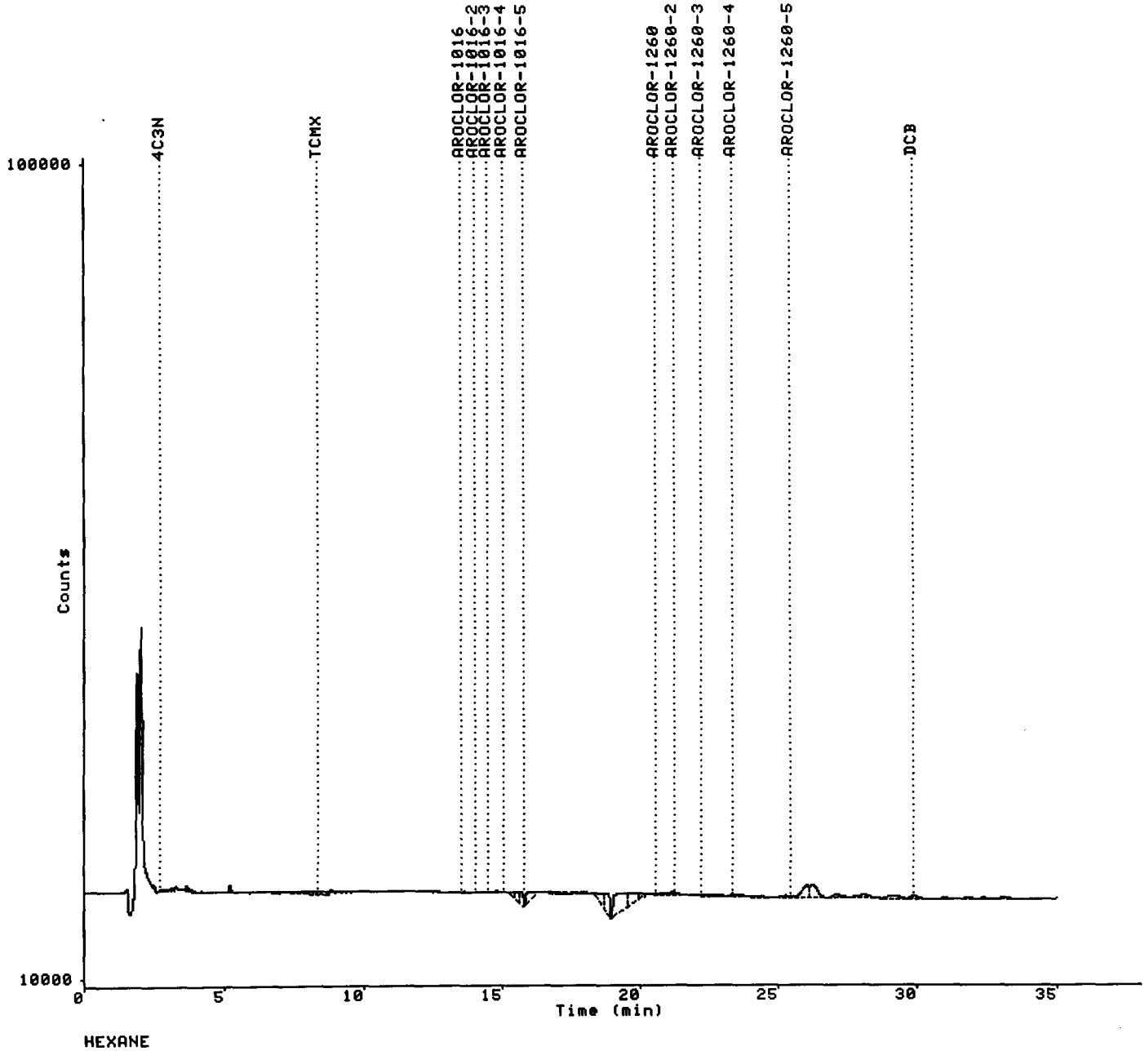
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	20.33		24302	EV	51
	20.59		87254	VV	52
	20.77		32968	VV	53
	21.22		28880	VV	54
	21.39		325725	VE	55
	21.58		16716	EV	56
	21.75		12003	EV	57
	21.84		27763	VV	58
	21.98		82378	VE	59
	22.20		14205	EV	60
	22.40		21164	VV	61
	22.55		12595	VV	62
	22.86		5231	VV	63
	23.36		34887	VV	64
	23.68		20943	VE	65
	23.99		19414	VE	66
	25.29		4867	BV	67
	25.46		11945	VB	68

Average result...0.998 UG/ML

Run Number..... 16 End of Report.

Run Number..... 27
Sample Name..... HEXANE
Run Date..... 3-MAY-1997 11:46:45
Raw File..... 6_0502_027
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE
Datafile: 6_0502_027

Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 11:46:45

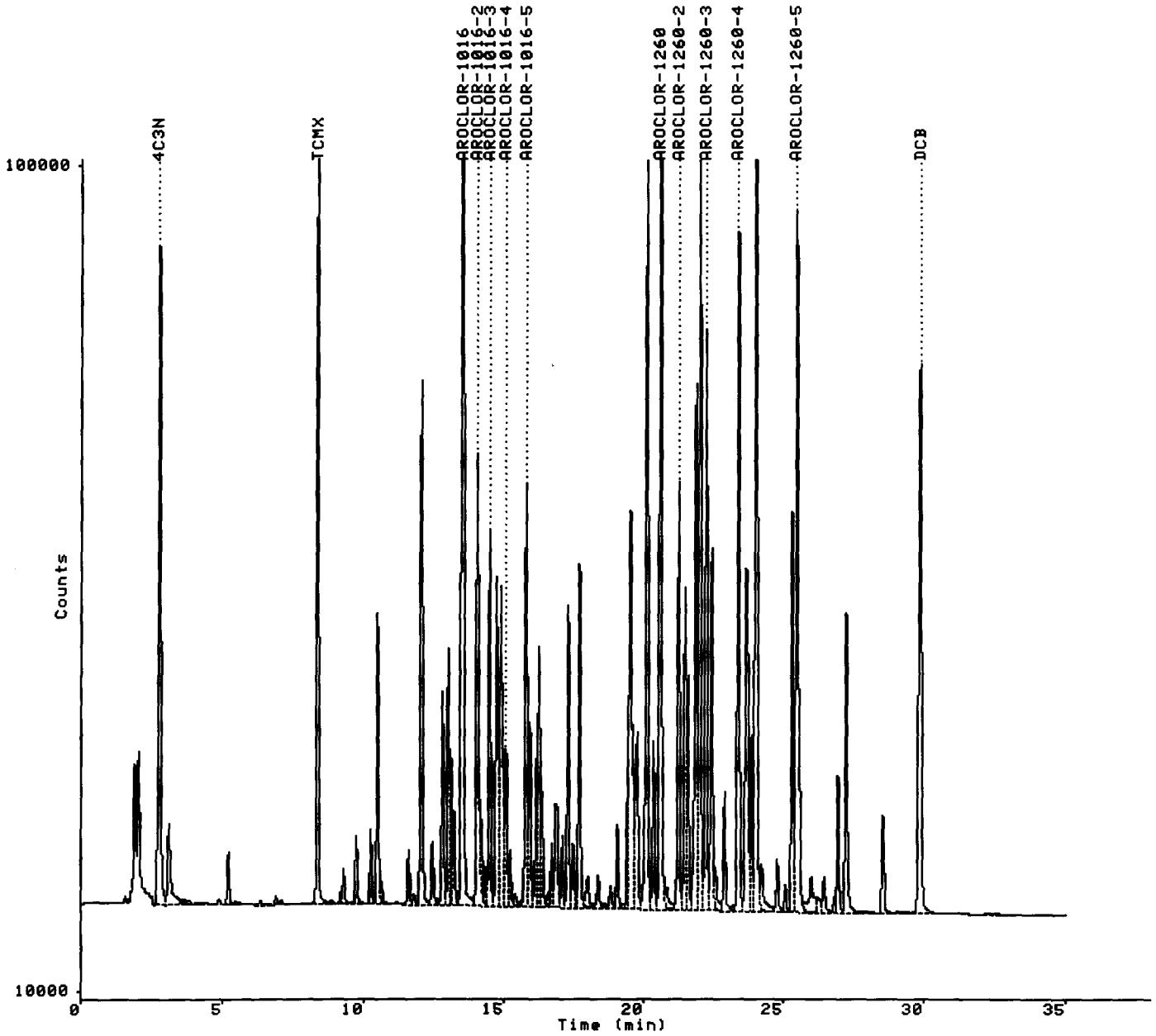
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	15.56		7874	VV	1
AROCLOR-1016-5	15.69	-0.0968	10833	VB	2
	16.04		16598	BB	3
	18.42		20385	BV	4
	18.79		27496	VB	5
	19.30		68131	BV	6
	19.80		28232	VV	7
	26.04		23214	VV	8
	26.30		25550	VB	9
	27.09		7119	BB	10
	28.08		7279	BB	11
	29.11		9958	BV	12
DCB	29.92	-0.00583	7800	VB	13
	31.81		5158	VV	14
	33.21		7544	VE	15

AR1016 average result...-0.161
AR1260 average result...-0.109

Run Number..... 27 End of Report.

Run Number..... 28
Sample Name..... 0.4UG/ML AR1660
Run Date..... 3-MAY-1997 12:29:07
Raw File..... 6_0502_028
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



0.4UG/ML AR1660

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1660 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_028 Analysis Date: 3-MAY-1997 12:29:07

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	2.75	0.0595	413047	BV	1
	3.11		79030	VE	2
	3.78		5123	EV	3
	5.20		27137	VE	4
	6.88		5434	BV	5
TCMX	8.33	0.0265	373291	VE	6
	9.26		19825	EV	7
	9.71		36592	VV	8
	10.23		37401	VV	9
	10.47		150835	VE	10
	10.62		9646	EV	11
	11.58		26874	VV	12
	11.77		5466	VV	13
	12.03		320302	VV	14
	12.42		39446	VE	15
	12.79		113140	VV	16
	12.99		137819	VV	17
	13.08		65029	VV	18
	13.20		46026	VV	19
AROCLOR-1016	13.50	0.517	664956	VV	20
AROCLOR-1016-2	14.02	0.505	281187	VE	21
	14.19		34221	EV	22
	14.35		16602	EV	23
AROCLOR-1016-3	14.47	0.508	193931	VV	24
	14.72		214495	VV	25
	14.88		248281	VV	26
AROCLOR-1016-4	15.07	0.530	83427	VV	27
	15.21		30721	VE	28
	15.39		8750	EV	29
AROCLOR-1016-5	15.78	0.509	248015	VV	30
	15.92		95128	VV	31
	16.15		71291	VV	32
	16.24		134379	VV	33
	16.35		57492	VE	34
	16.57		7103	EV	35
	16.70		32617	VV	36
	16.86		94091	VV	37
	17.08		37737	VV	38
	17.28		162529	VV	39
	17.46		34977	VV	40
	17.56		6215	VV	41
	17.68		186500	VE	42
	17.99		28299	EV	43
	18.36		19018	VE	44
	18.80		12778	VV	45
	19.04		42490	VE	46
	19.44		90157	VV	47
	19.50		299225	VV	48
	19.75		140441	VV	49
	20.10		459092	VV	50

Sample ID: 0.4UG/ML AR1660 Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Datafile: 6_0502_028 Analysis Date: 3-MAY-1997 12:29:07

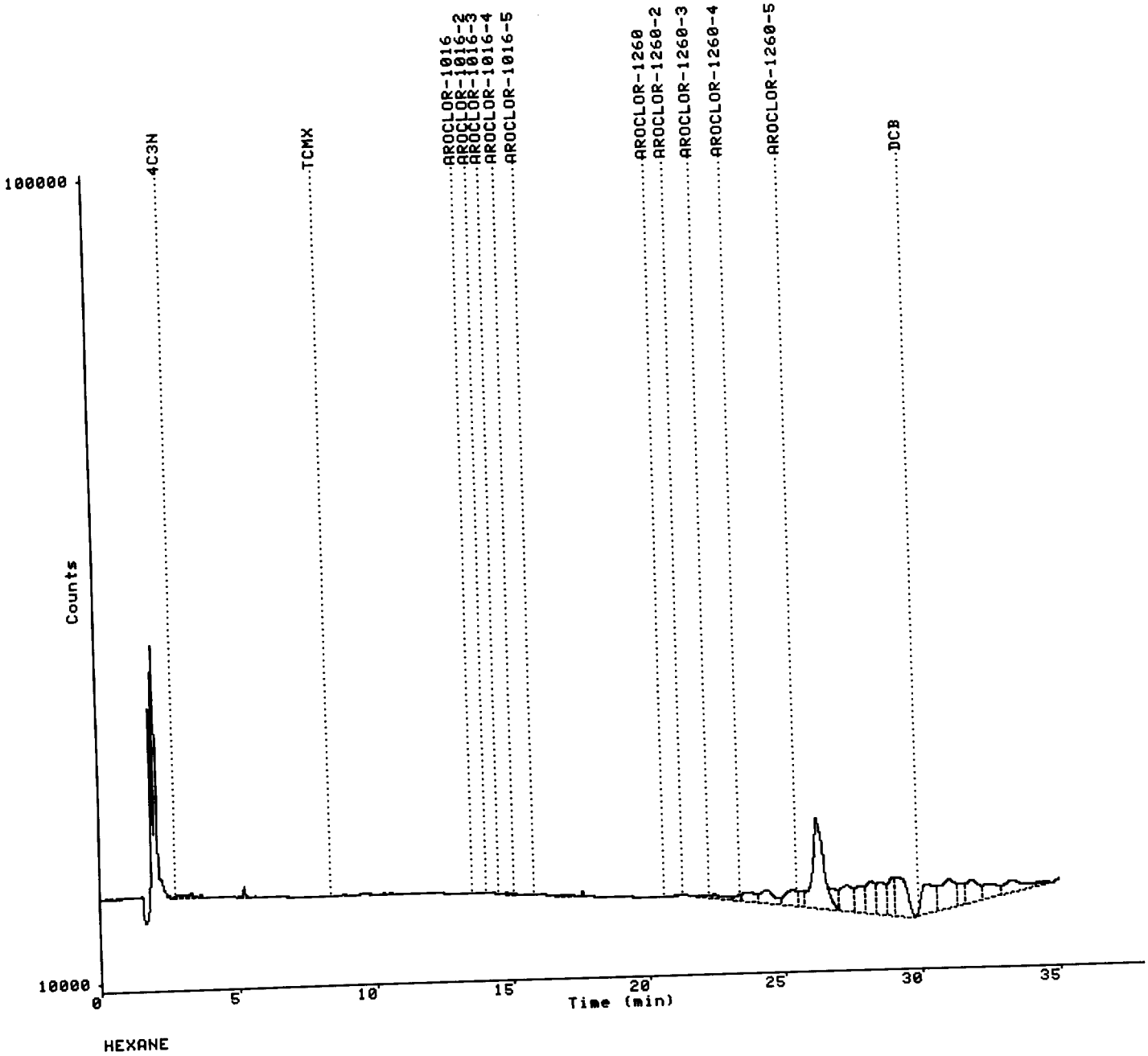
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	20.34		92568	VV	51
AROCLOR-1260	20.57	0.475	511060	VE	52
	20.82		20333	EV	53
AROCLOR-1260-2	21.23	0.463	225895	VV	54
	21.46		180274	VV	55
	21.56		115791	VV	56
	21.84		317373	VV	57
	21.98		448461	VV	58
AROCLOR-1260-3	22.21	0.473	317550	VV	59
	22.41		197028	VE	60
	22.55		26852	EV	61
	22.88		66530	VE	62
AROCLOR-1260-4	23.37	0.459	363756	VV	63
	23.66		279480	VV	64
	23.83		90524	VV	65
	24.00		700963	VE	66
	24.21		40647	EV	67
	24.78		30263	VV	68
	25.06		14058	VV	69
	25.30		210558	VV	70
AROCLOR-1260-5	25.46	0.439	464808	VE	71
	26.00		44452	EV	72
	26.22		15770	VV	73
	26.45		23087	VV	74
	26.81		6899	VV	75
	26.95		71650	VV	76
	27.24		174420	VE	77
	28.54		60694	BE	78
DCB	29.85	0.0242	394405	VE	79

AR1016 average result...0.514
AR1260 average result...0.462

Run Number..... 28 End of Report.

Run Number..... 39
Sample Name..... HEXANE
Run Date..... 3-MAY-1997 20:15:05
Raw File..... 6_0502_039
Method Name..... 6_AR1660_0502
Method Type..... Linear

HP5890#1B 30M RTX-35 0.53mm 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE
Datafile: 6_0502_039
Instrument: HP5890#1B 30M RTX-35 0.53mm 2ul Inj
Analysis Date: 3-MAY-1997 20:15:05

Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	3.32		6037	VV	1
	5.21		5028	VE	2
	22.38		10753	VV	3
AROCLOR-1260-4	23.38	-0.00852	8789	VV	4
	23.66		32353	VV	5
	24.34		47759	VV	6
	25.30		49074	VV	7
AROCLOR-1260-5	25.58	0.00242	26373	VV	8
	26.24		275120	VE	9
	26.79		28312	EV	10
	27.29		92995	VV	11
	27.79		57768	VV	12
	28.19		82769	VV	13
	28.52		74313	VV	14
	29.00		72705	VV	15
	29.18		121844	VB	16
DCB	30.19	0.00175	112206	BV	17
	31.01		128864	VV	18
	31.40		42129	VV	19
	31.84		78911	VV	20
	32.49		55977	VV	21
	33.30		70358	VE	22
	34.51		8775	EB	23

AR1016 average result...-0.0102
AR1260 average result...-0.00928

Run Number..... 39 End of Report.

TITLE _____ Project No. _____ Book No. 1166

Notebook # 1166 Page# 67

Analytical Method: 8081
Instrument ID: V3400#4
Operator: [signature] Initials: [initials] Date: 5/5/97

GC Temperature Information

Initial Oven Temp: 150 C
Initial Oven Hold: 1 Min
Oven Temp. Ramp: 5 C/Min
Final Oven Temp: 280 C
Final Oven Hold: 11 Min
Injector Temp: 200 C
Detector Temp: 300 C
Injection Vol: 2.0 uL
Detector A,B : ECD,ECD
Range: 10
Attn : 8

FLOW(He) @ PSI 10 mL/Min

Column Information

Column 1 : RTX-5 Channel 10
5%-Diphenyl - 95% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 1.0 uM

Column 2 : RTX-35 Channel 11
35%-Diphenyl - 65% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 0.50 uM

Test Performed: PCB
Method Number: 8081
Date: 5/5/97
Work Performed By: [signature]

860 Ch 10 Quant Side (1248 only)

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
	HEXANE	1	10/11_0505_001		K50315	[initials]
	HEXANE	2	11_0505_002			
	HEXANE	3	11_0505_003			
	0.1UG/ML AR1248	4	11_0505_004		445-16-3-1	
	0.2UG/ML AR1248	5	11_0505_005		445-163-2	
	0.4UG/ML AR1248	6	11_0505_006		445-163-3	
	0.5UG/ML AR1248	7	11_0505_007		445-163-4	
	1.0UG/ML AR1248	8	11_0505_008		445-163-5	
9700 860	SLCS1164-132-1 2X	9	11_0505_009		Hg/Acid	
	SBLK1164-132-2 1X	10	11_0505_010			
	65106 5X	11	11_0505_011			
	65107 10X	12	11_0505_012			
	65108 1X	13	11_0505_013			
	HEXANE	14	11_0505_014		K50315	
	0.4UG/ML AR1248	15	11_0505_015		445-163-3	
	65109 10X	16	11_0505_016		Hg/Acid	
	65110 1X	17	11_0505_017			
	65111 20X	18	11_0505_018			
	65112 10X	19	11_0505_019			
	65113 500X	20	11_0505_020			
	65112 MS 10X	21	11_0505_021			
	65112 MSD 10X	22	11_0505_022			
	0.4UG/ML AR1248	23	11_0505_023		445-163-3	

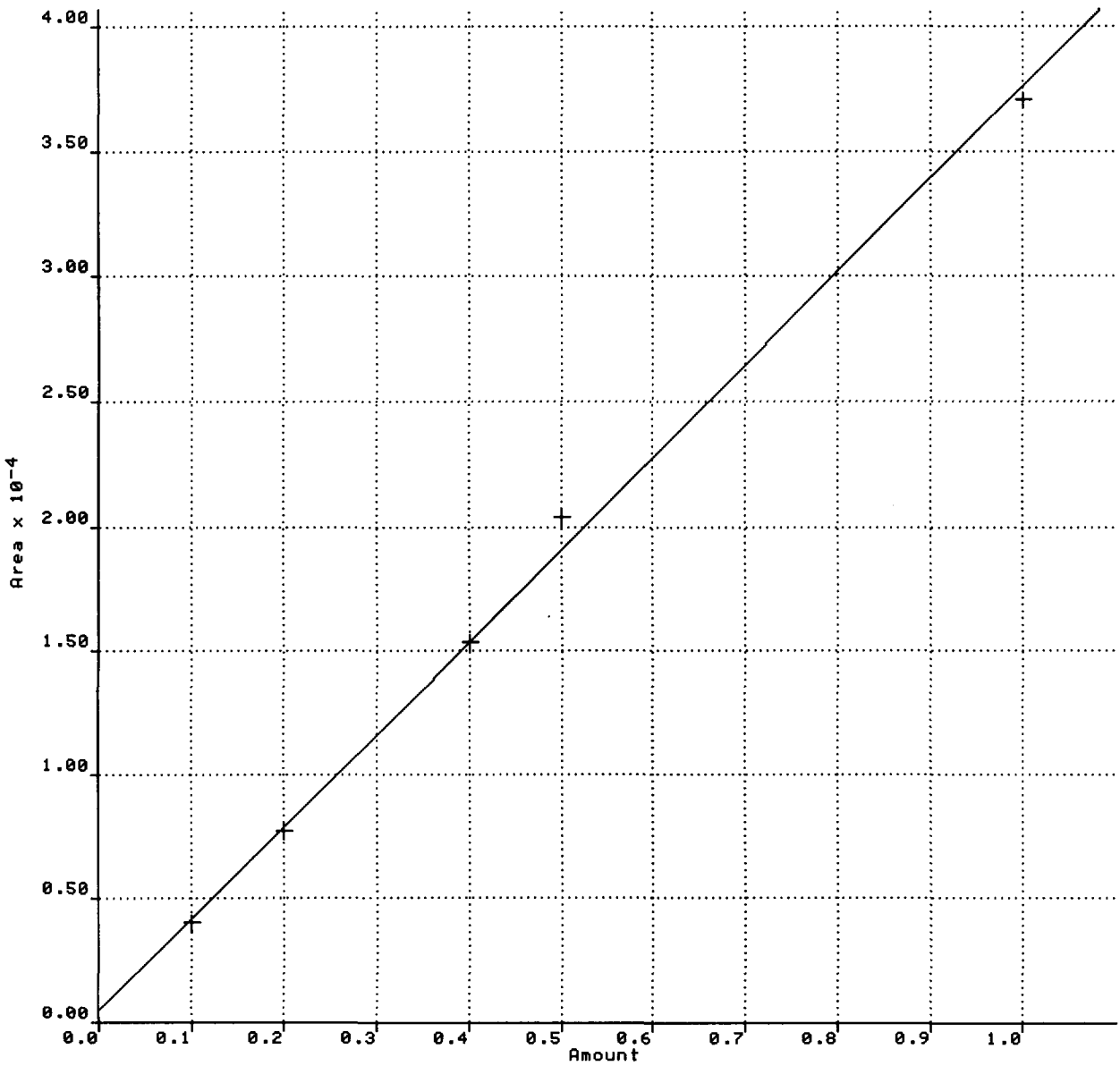
[signature]

To Page No. _____

Witnessed & Understood by me,	Date	Invented by	Date
Richard R Samson	5/7/97	Recorded by	

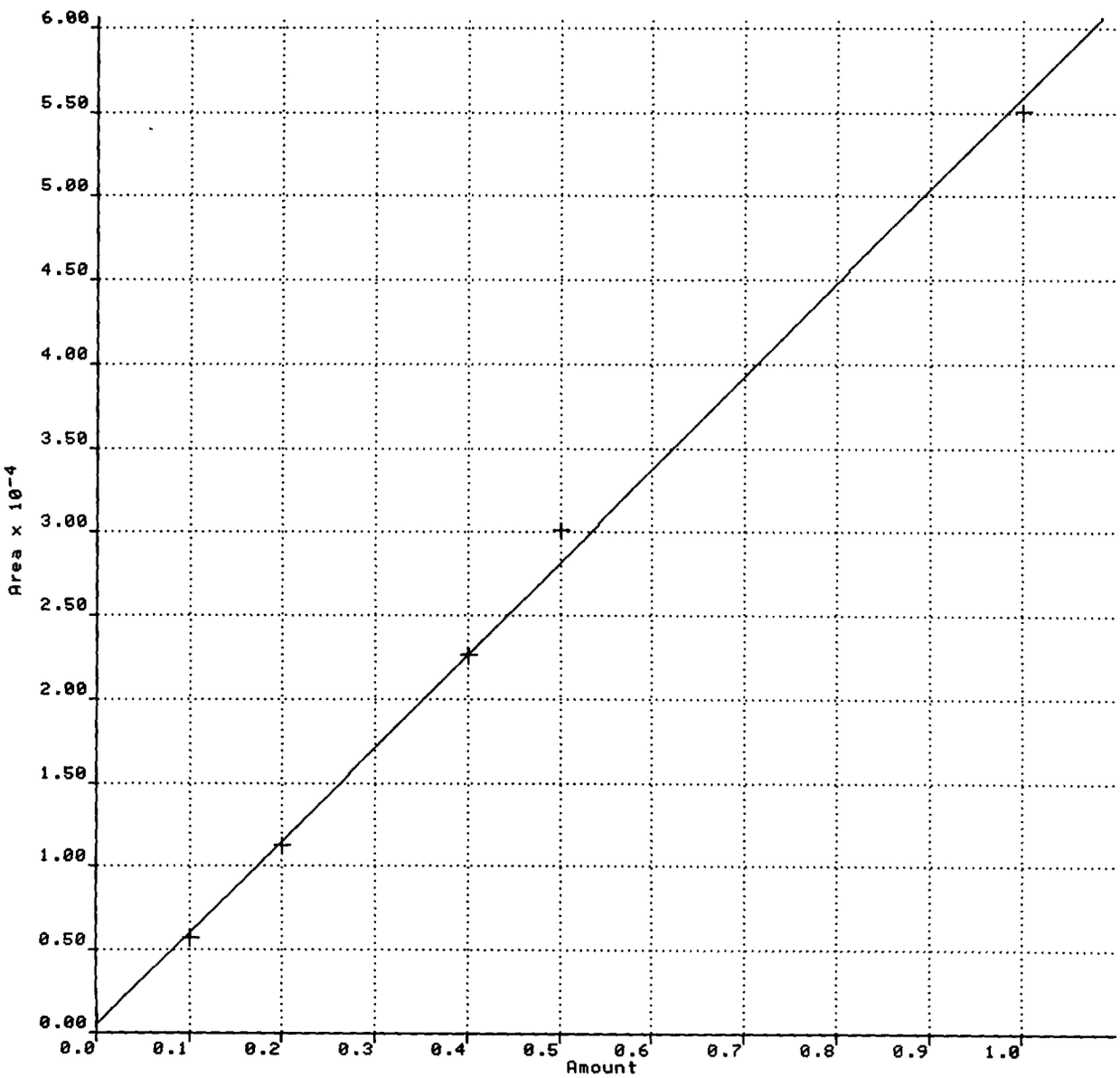
Method: DKB0:[NEARY]10_AR1248_0505.MET;7
Component: AR1248-1
Date: 6-MAY-1997 09:49:06.57
Linear fit, Origin Treament....Use.
K0: 4.5018E+02 K1: 3.7210E+04
Coeff. of determination: 0.9969

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	15381	0.40000	
0.1UG/ML AR1248	4061	0.10000	
0.2UG/ML AR1248	7718	0.20000	
0.5UG/ML AR1248	20377	0.50000	
1.0UG/ML AR1248	37027	1.0000	



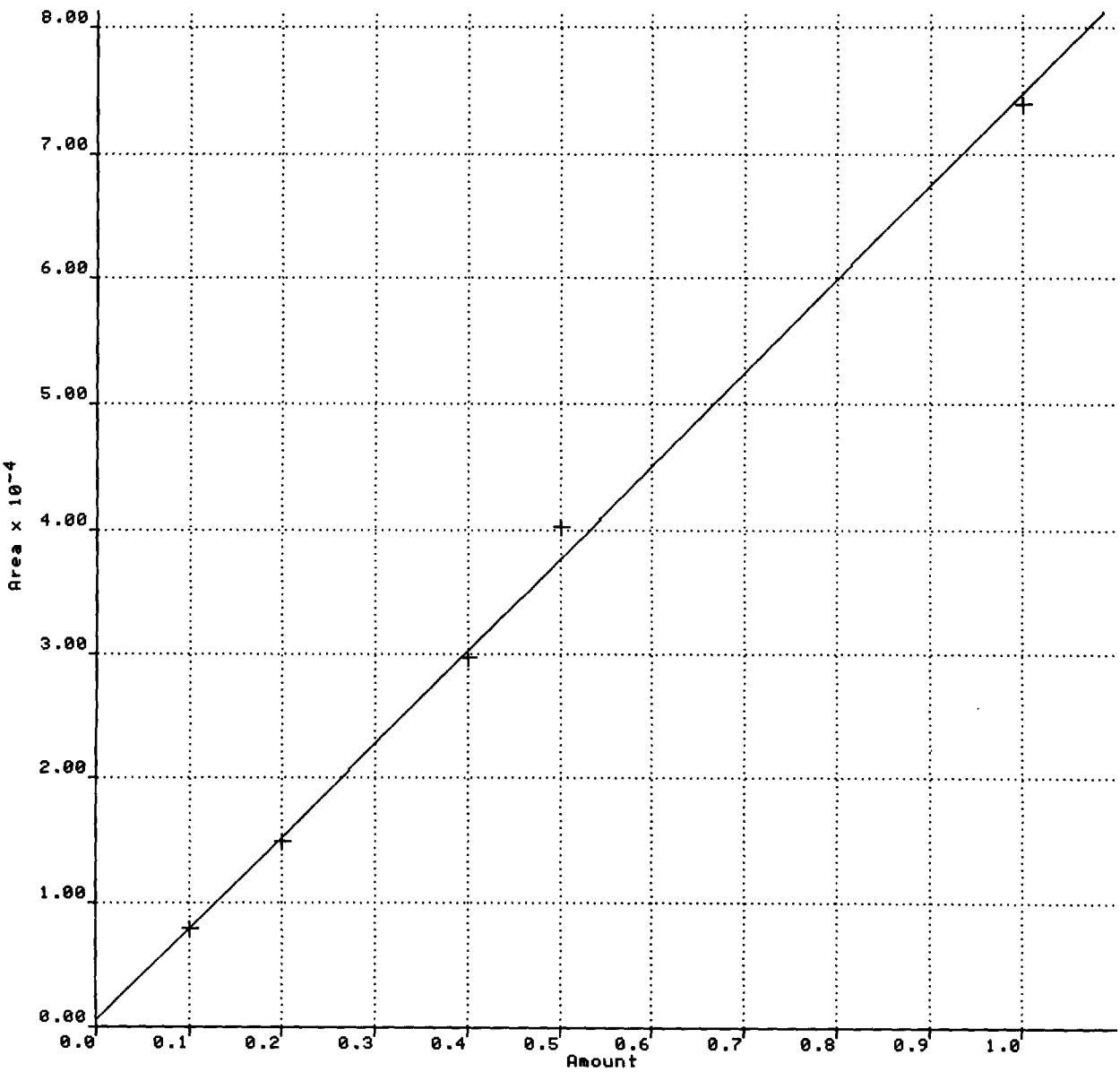
Method: DKB0:[NEARY]10_AR1248_0505.MET;7
Component: AR1248-2
Date: 6-MAY-1997 09:49:06.99
Linear fit, Origin Treament....Use.
K0: 5.0727E+02 K1: 5.5437E+04
Coeff. of determination: 0.9972

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	22704	0.40000	
0.1UG/ML AR1248	5787	0.10000	
0.2UG/ML AR1248	11326	0.20000	
0.5UG/ML AR1248	30119	0.50000	
1.0UG/ML AR1248	55069	1.0000	



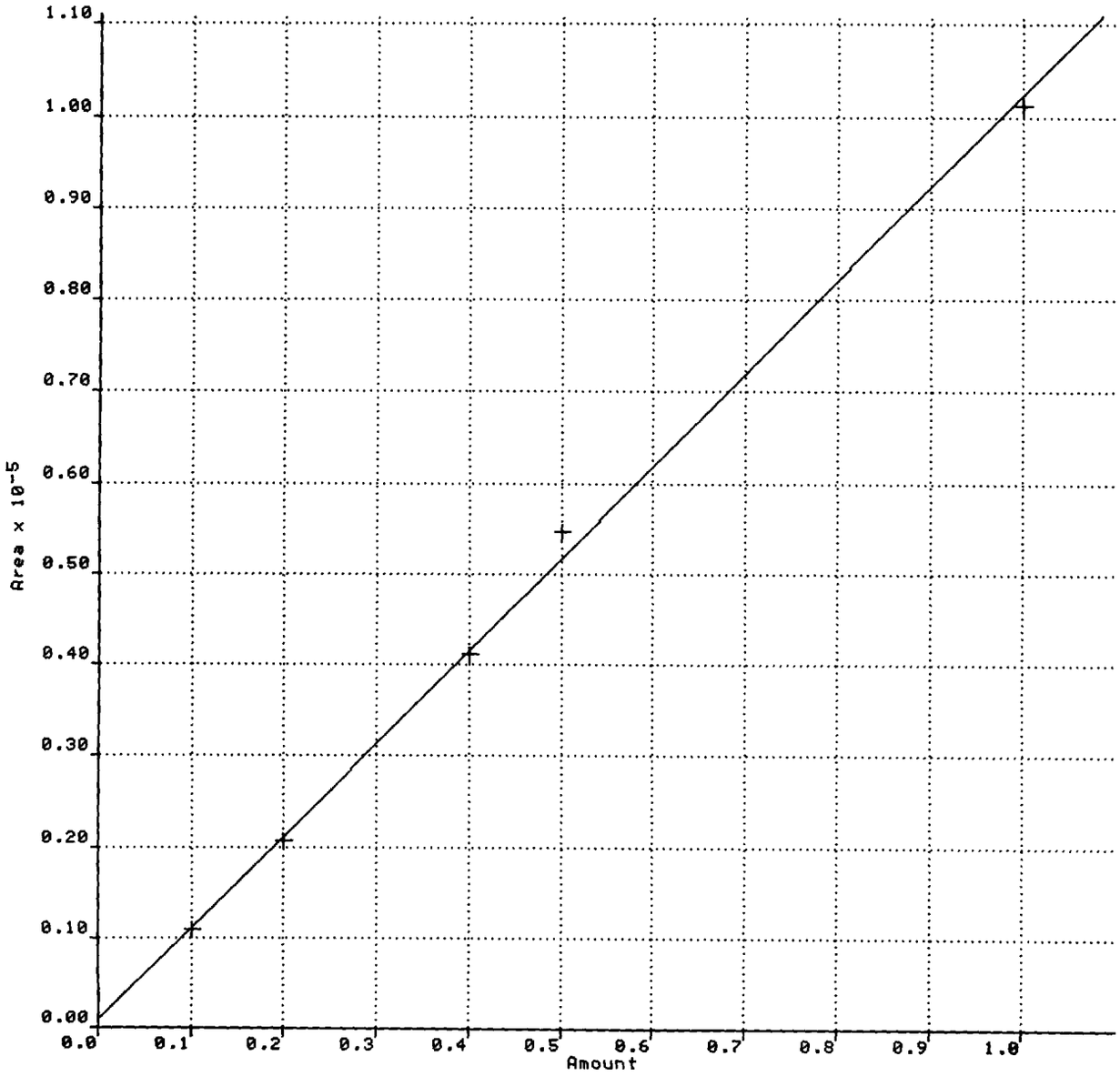
Method: DKB0:[NEARY]10_AR1248_0505.MET;7
Component: AR1248-3
Date: 6-MAY-1997 09:49:07.50
Linear fit, Origin Treament....Use.
K0: 5.6033E+02 K1: 7.4272E+04
Coeff. of determination: 0.9972

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	29740	0.40000	
0.1UG/ML AR1248	7932	0.10000	
0.2UG/ML AR1248	14982	0.20000	
0.5UG/ML AR1248	40244	0.50000	
1.0UG/ML AR1248	73862	1.0000	



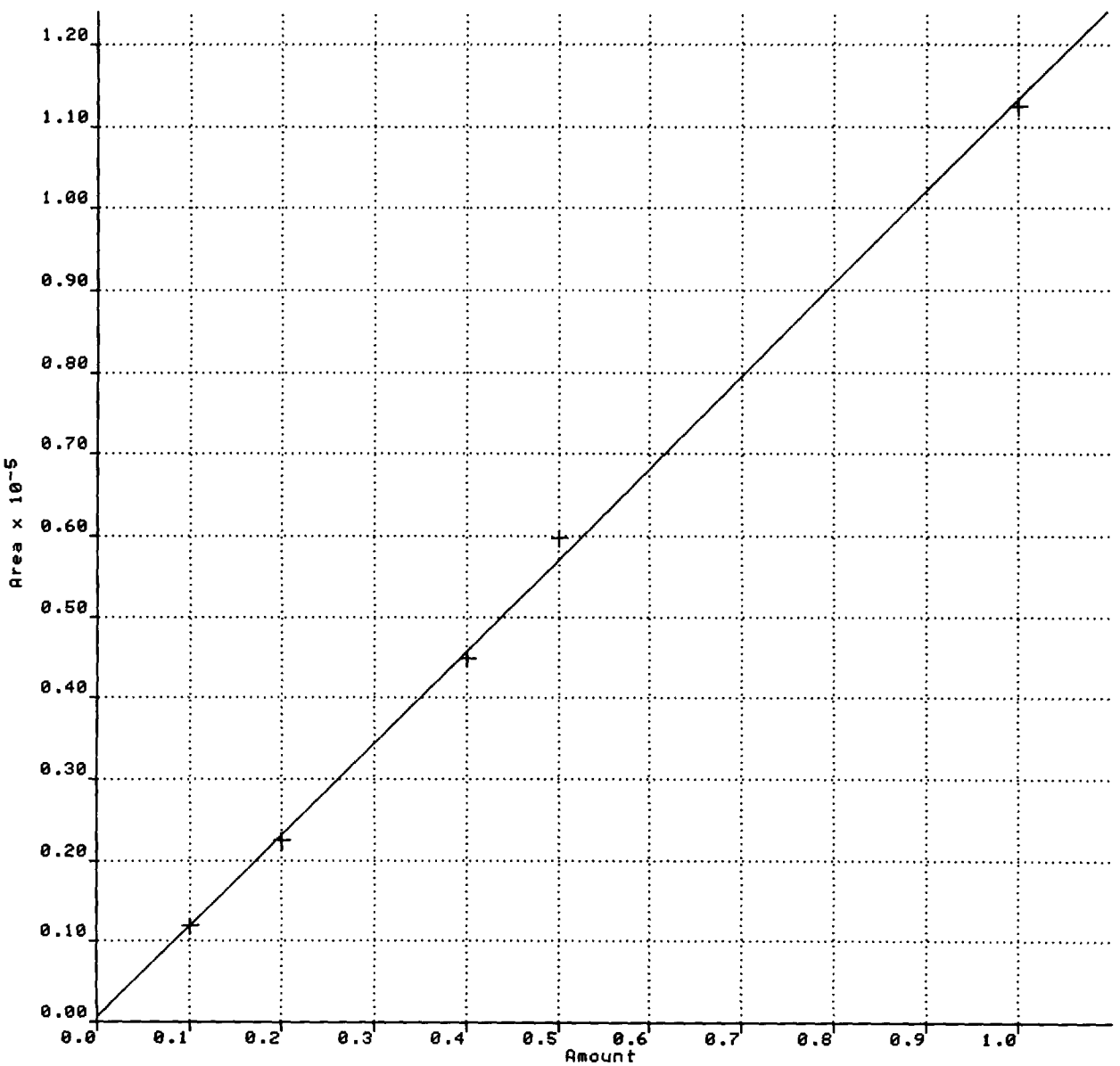
Method: DKB0:[NEARY]10_AR1248_0505.MET;7
Component: AR1248-4
Date: 6-MAY-1997 09:49:08.21
Linear fit, Origin Treament....Use.
K0: 8.7161E+02 K1: 1.0160E+05
Coeff. of determination: 0.9979

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	41167	0.40000	
0.1UG/ML AR1248	10983	0.10000	
0.2UG/ML AR1248	20720	0.20000	
0.5UG/ML AR1248	54672	0.50000	
1.0UG/ML AR1248	101210	1.0000	



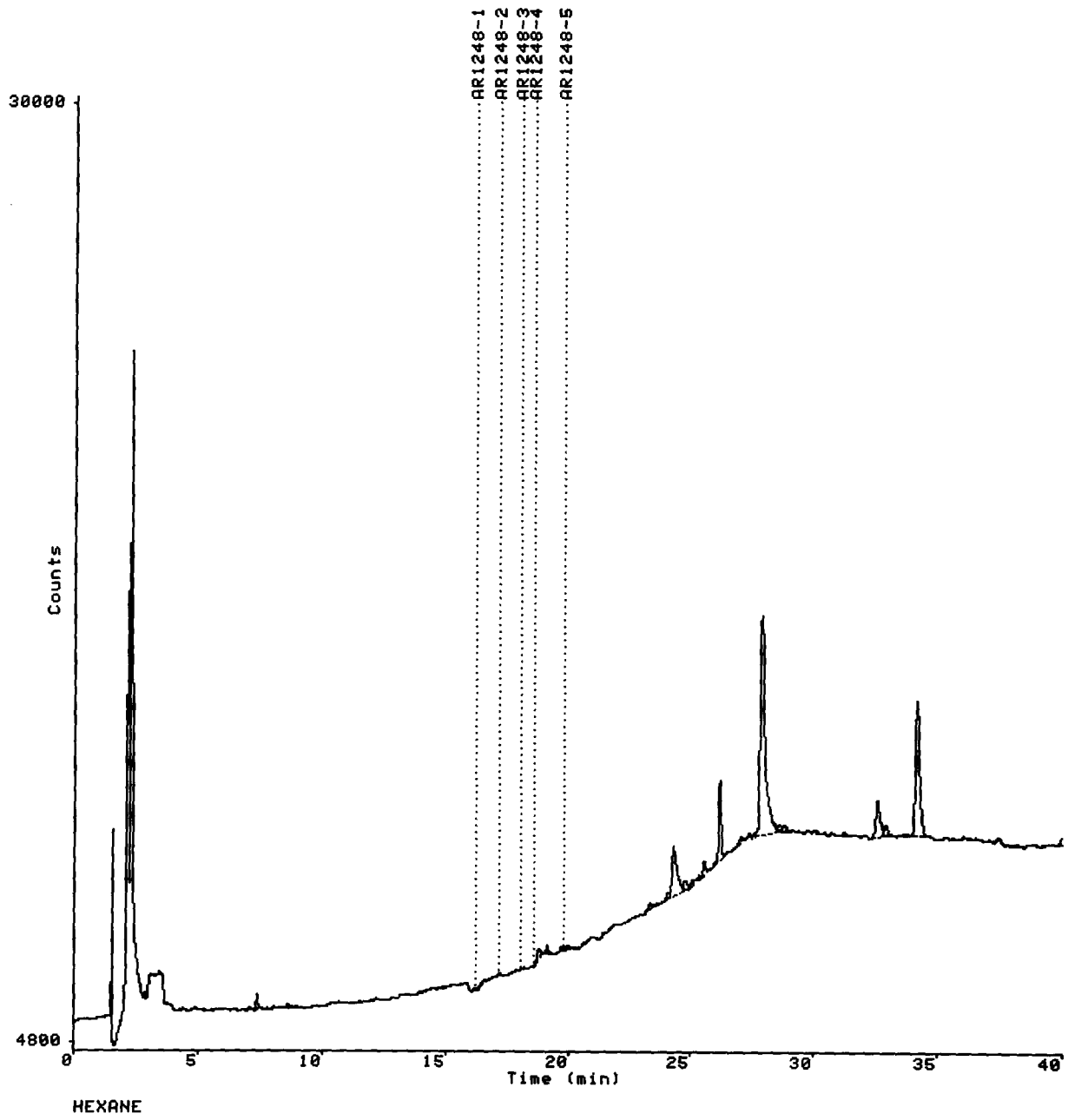
Method: DKB0:[NEARY]10_AR1248_0505.MET;7
Component: AR1248-5
Date: 6-MAY-1997 09:49:08.98
Linear fit, Origin Treament....Use.
K0: 5.3512E+02 K1: 1.1282E+05
Coeff. of determination: 0.9986

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	44903	0.40000	
0.1UG/ML AR1248	11914	0.10000	
0.2UG/ML AR1248	22506	0.20000	
0.5UG/ML AR1248	59705	0.50000	
1.0UG/ML AR1248	112391	1.0000	



Run Number..... 1
Sample Name..... HEXANE
Run Date..... 5-MAY-1997 18:50:24
Raw File..... 10_0505_001
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE
Datafile: 10_0505_001

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 5-MAY-1997 18:50:24

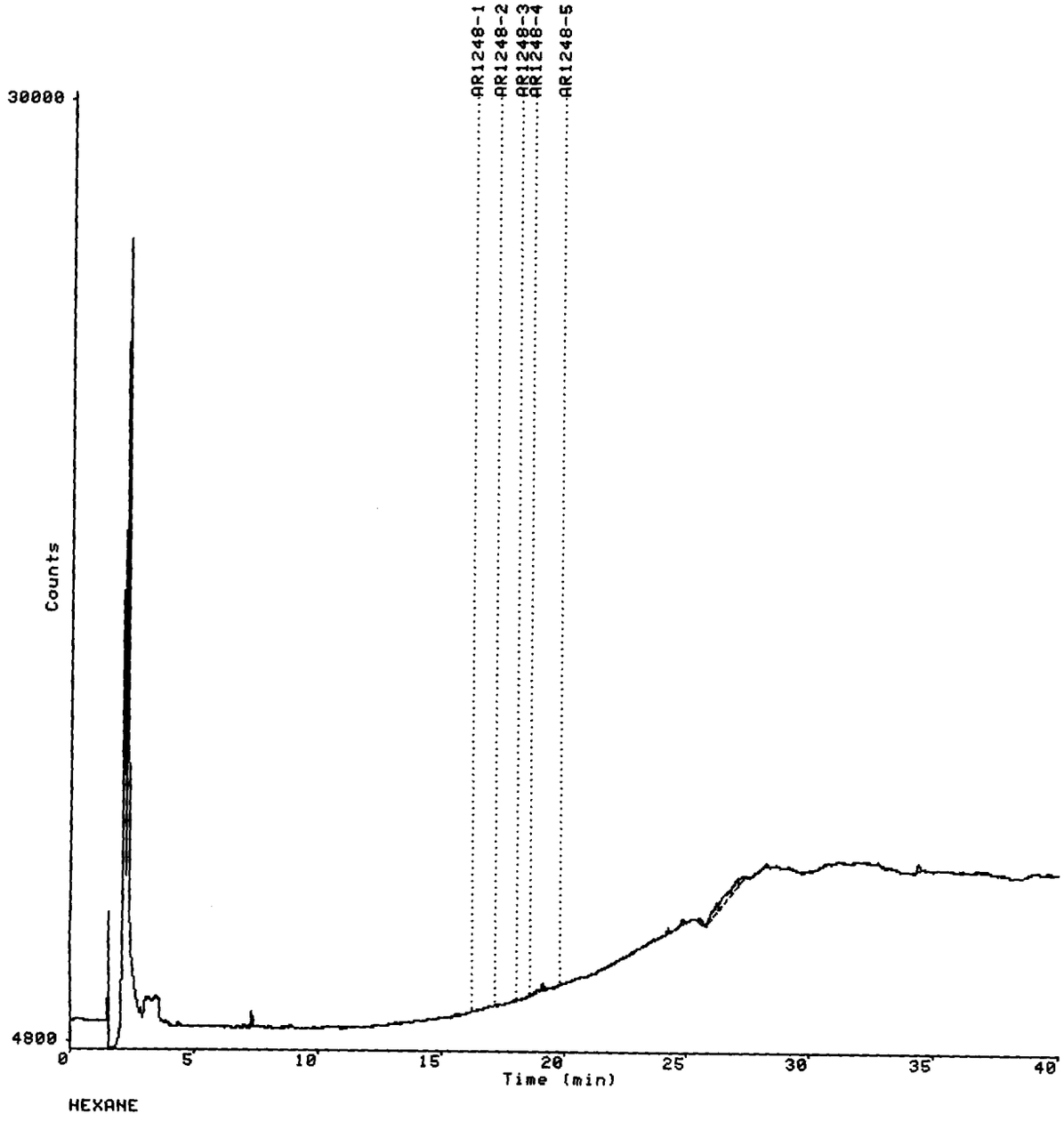
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	7.37		1588	BB	1
AR1248-1	16.21	0.00386	594	BB	2
	16.59		723	BB	3
	17.98		616	BB	4
	18.81		1881	BB	5
	19.15		994	BB	6
AR1248-5	19.76	0.00440	1032	BV	7
	19.98		759	VB	8
	20.94		614	VB	9
	23.35		1659	BV	10
	24.10		1258	BV	11
	24.30		20072	VE	12
	24.78		2275	EB	13
	25.10		848	BV	14
	25.54		2601	BB	15
	26.00		503	BV	16
	26.17		14123	VE	17
	27.02		1310	BB	18
	27.37		969	BV	19
	27.55		744	VV	20
	27.88		86507	VE	21
	28.62		2131	EV	22
	28.82		1774	EV	23
	32.59		12573	BV	24
	32.93		2373	VB	25
	34.18		40131	BB	26
	40.03		2376	BB	27

Average result...6.20E-04 UG/ML

Run Number..... 1 End of Report.

Run Number..... 2
Sample Name..... HEXANE
Run Date..... 5-MAY-1997 19:36:43
Raw File..... 10_0505_002
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_002 Analysis Date: 5-MAY-1997 19:36:43

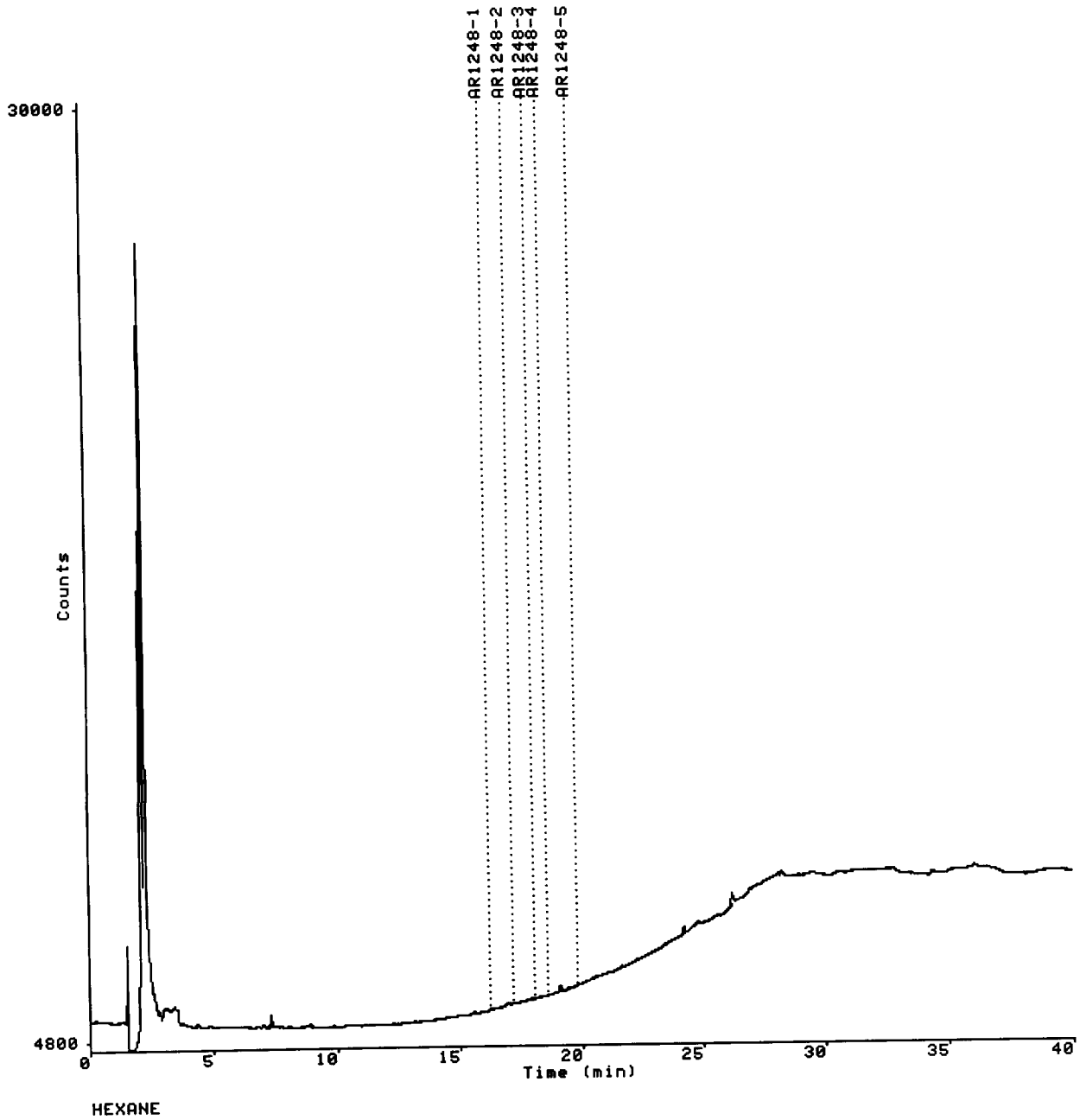
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	7.32		1617	BB	1
	19.02		983	BV	2
	19.15		1053	VB	3
	23.06		2407	BV	4
	24.11		533	VB	5
	24.23		772	BB	6
	24.81		1899	BE	7
	25.47		979	BB	8
	26.08		4396	BV	9
	26.53		5371	VV	10
	26.95		2886	VV	11
	27.18		1271	VV	12
	28.22		908	BB	13
	30.52		796	BV	14
	34.37		1785	BB	15

Average result...-0.00420 UG/ML

Run Number..... 2 End of Report.

Run Number..... 3
Sample Name..... HEXANE
Run Date..... 5-MAY-1997 20:22:58
Raw File..... 10_0505_003
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_003 Analysis Date: 5-MAY-1997 20:22:58

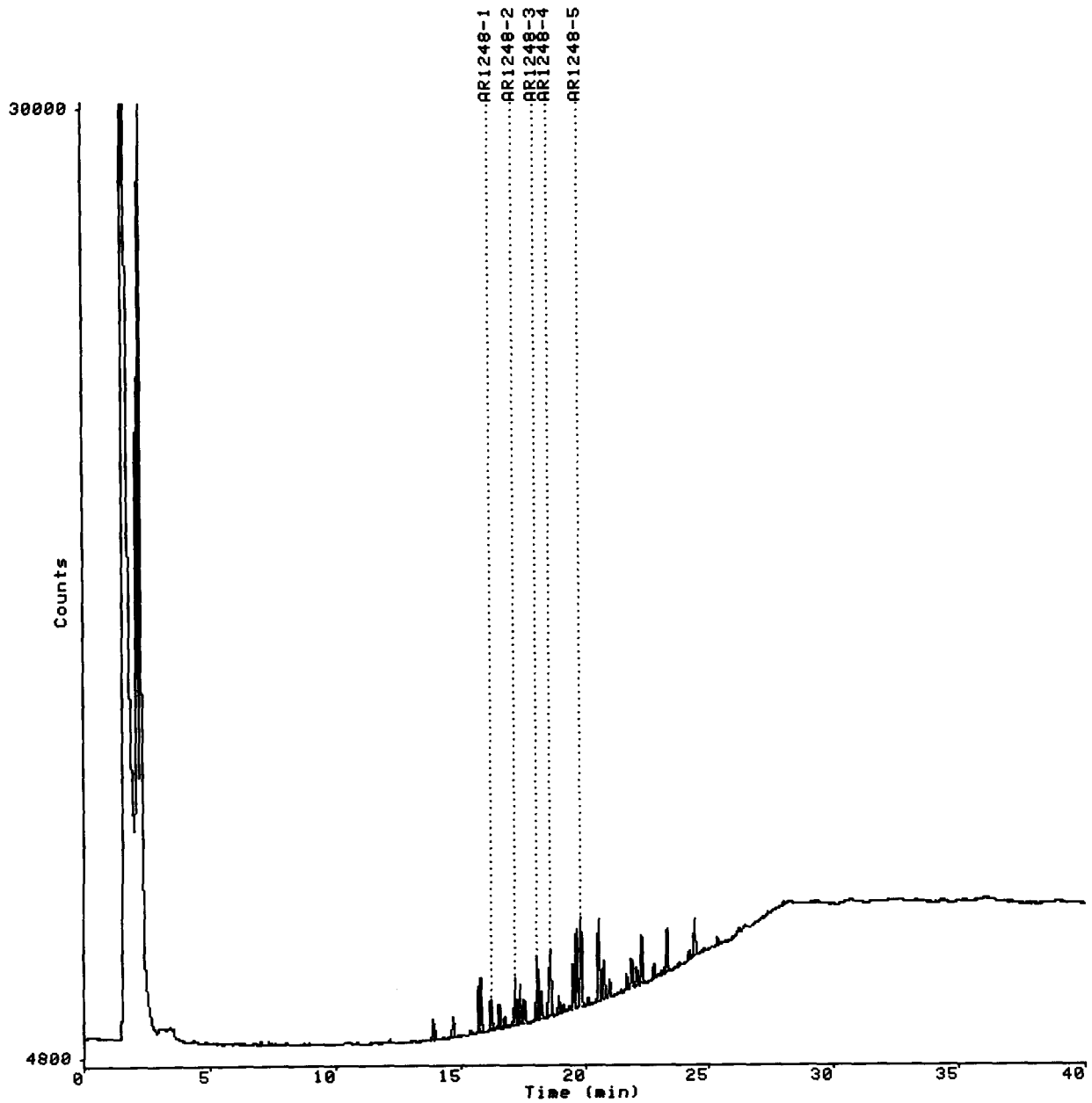
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	7.32		1230	BB	1
	19.13		771	BB	2
	24.21		913	BB	3
	26.20		1933	BB	4
	26.95		833	BB	5
	28.21		664	VB	6
	34.36		714	BB	7

Average result...-0.00145 UG/ML

Run Number..... 3 End of Report.

Run Number..... 4
Sample Name..... 0.1UG/ML AR1248
Run Date..... 5-MAY-1997 21:09:15
Raw File..... 10_0505_004
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



0.1UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_004 Analysis Date: 5-MAY-1997 21:09:15

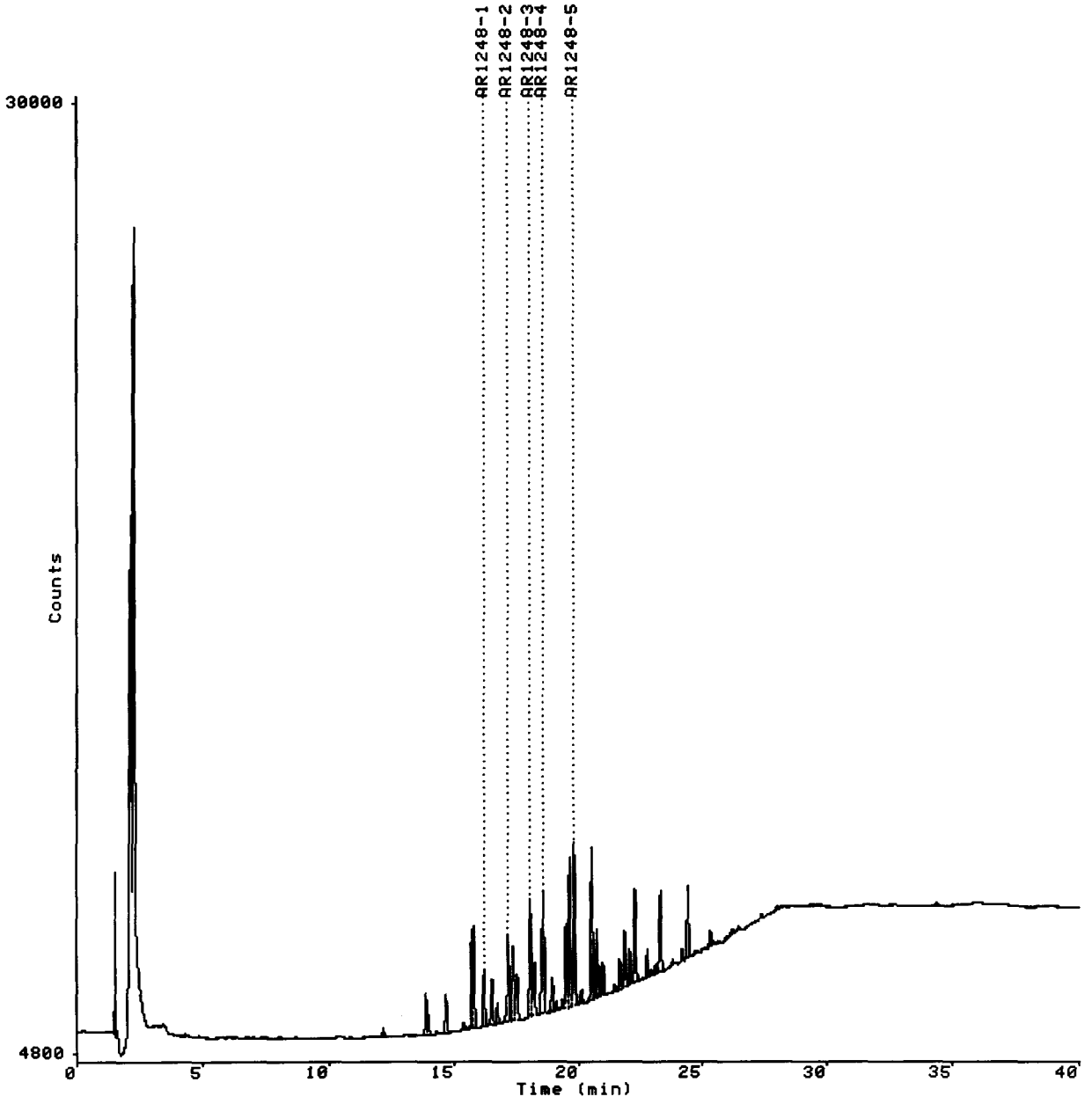
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	13.89		2707	BV	1
	13.98		1065	VB	2
	14.69		2525	BB	3
	15.74		5022	BV	4
	15.80		6432	VB	5
AR1248-1	16.22	0.0970	4061	BV	6
	16.54		3243	VB	7
	16.77		1347	BB	8
AR1248-2	17.19	0.0952	5787	BB	9
	17.39		4772	BV	10
	17.54		4199	VB	11
AR1248-3	18.08	0.0993	7932	BV	12
	18.24		3731	VB	13
AR1248-4	18.60	0.0995	10983	BB	14
	18.96		2069	BB	15
	19.14		921	BB	16
	19.37		502	BV	17
	19.53		5438	VV	18
	19.67		9831	VV	19
AR1248-5	19.84	0.101	11914	VB	20
	20.14		961	BB	21
	20.56		12033	BV	22
	20.76		5226	VV	23
	21.00		2130	VB	24
	21.68		2223	BV	25
	21.89		3996	VV	26
	22.08		2257	VV	27
	22.29		6296	VB	28
	22.79		1791	BV	29
	23.12		539	VV	30
	23.32		5793	VB	31
	24.21		1440	BV	32
	24.42		5002	VB	33
	24.80		613	BB	34
	25.34		1089	BV	35
	26.22		1295	BV	36
	26.47		616	VB	37
	34.37		638	BB	38

Average result...0.0984 UG/ML

Run Number..... 4 End of Report.

Run Number..... 5
Sample Name..... 0.2UG/ML AR1248
Run Date..... 5-MAY-1997 21:55:33
Raw File..... 10_0505_005
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



0.2UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_005 Analysis Date: 5-MAY-1997 21:55:33

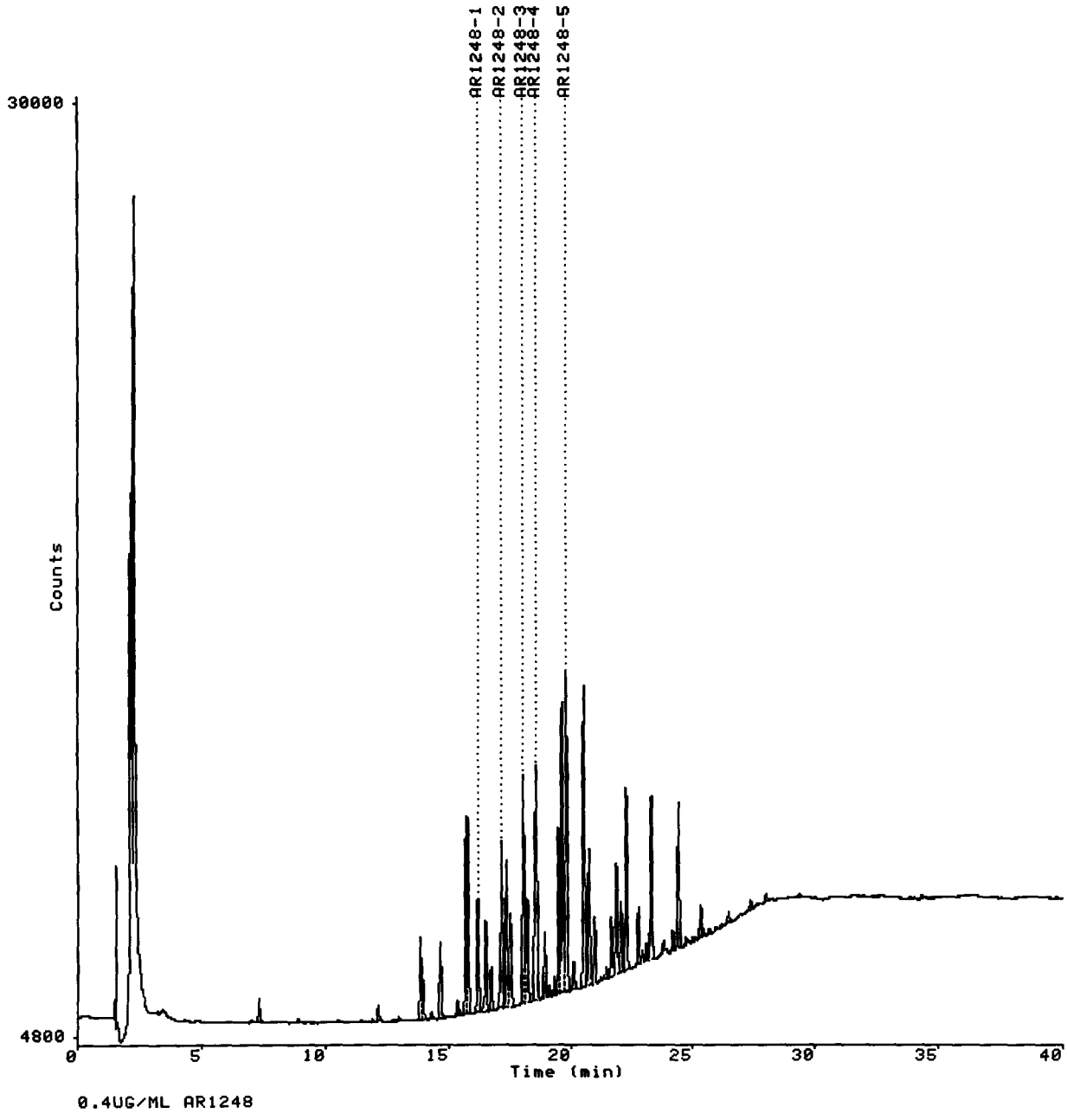
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	12.17		867	BB	1
	13.89		5170	BV	2
	13.98		2055	VB	3
	14.70		4983	BB	4
	15.39		872	BV	5
	15.75		9617	BV	6
	15.81		12031	VB	7
AR1248-1	16.22	0.195	7718	BB	8
	16.55		6164	BB	9
	16.77		2619	BB	10
AR1248-2	17.20	0.195	11326	BV	11
	17.39		9211	VV	12
	17.54		8039	VB	13
AR1248-3	18.08	0.194	14982	BV	14
	18.24		7185	VB	15
AR1248-4	18.61	0.195	20720	BB	16
	18.96		4056	VB	17
	19.14		1090	BB	18
	19.37		1052	BV	19
	19.54		10320	VV	20
	19.67		18576	VV	21
AR1248-5	19.84	0.195	22506	VV	22
	20.15		2109	VB	23
	20.56		22656	BV	24
	20.77		9112	VV	25
	21.00		4046	VB	26
	21.47		838	BB	27
	21.68		4172	BV	28
	21.89		7662	VV	29
	22.08		4256	VV	30
	22.30		11725	VB	31
	22.79		3500	BV	32
	22.96		760	VV	33
	23.12		1034	VV	34
	23.32		10978	VB	35
	23.81		557	BB	36
	24.20		1871	BV	37
	24.43		9614	VB	38
	25.34		2164	BV	39
	26.22		669	BB	40
	26.47		673	BB	41
	27.37		639	BB	42
	28.02		838	BV	43
	28.24		574	VB	44

Average result...0.195 UG/ML

Run Number..... 5 End of Report.

Run Number..... 6
Sample Name..... 0.4UG/ML AR1248
Run Date..... 5-MAY-1997 22:41:50
Raw File..... 10_0505_006
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_006 Analysis Date: 5-MAY-1997 22:41:50

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	7.32		2445	BB	1
	12.16		1905	BB	2
	13.89		10534	BV	3
	13.98		4331	VB	4
	14.33		813	BB	5
	14.69		10260	BB	6
	15.38		1936	BV	7
	15.50		584	VB	8
	15.74		19031	BV	9
	15.80		23886	VB	10
AR1248-1	16.22	0.401	15381	BV	11
	16.54		12531	VV	12
	16.76		5430	VB	13
AR1248-2	17.19	0.400	22704	BV	14
	17.38		18530	VV	15
	17.54		16253	VB	16
AR1248-3	18.08	0.393	29740	BV	17
	18.23		14795	VB	18
AR1248-4	18.60	0.397	41167	BV	19
	18.95		8714	VV	20
	19.13		1480	VV	21
	19.36		2263	VV	22
	19.53		20640	VV	23
	19.67		37009	VV	24
AR1248-5	19.84	0.393	44903	VV	25
	20.14		4464	VB	26
	20.55		45445	BV	27
	20.76		18553	VV	28
	20.99		8435	VB	29
	21.46		1466	BB	30
	21.67		8385	BV	31
	21.88		15579	VV	32
	22.07		8794	VV	33
	22.29		23637	VB	34
	22.78		7169	BV	35
	22.95		1419	VB	36
	23.11		2118	BV	37
	23.31		22537	VB	38
	23.80		1118	BB	39
	24.19		2837	BV	40
	24.42		19308	VB	41
	24.72		716	BB	42
	25.02		514	BV	43
	25.33		4491	BV	44
	25.44		935	VV	45
	25.68		838	VB	46
	26.46		1426	BB	47
	27.36		1317	BB	48
	28.01		1124	BV	49
	29.38		550	BB	50

Run Number..6 Page 3

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_006 Analysis Date: 5-MAY-1997 22:41:50

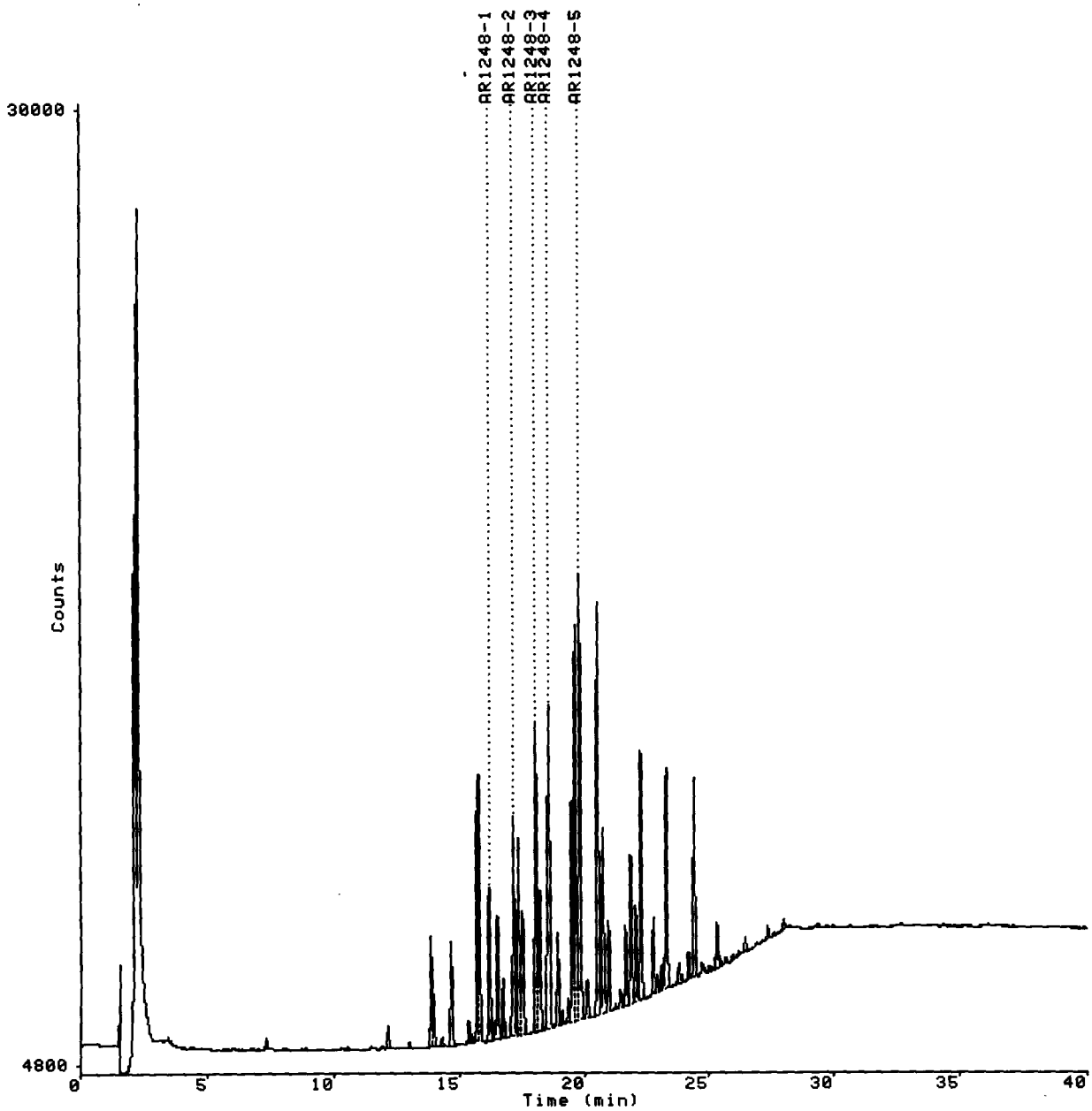
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	34.37		651	BB	51

Average result...0.397 UG/ML

Run Number..... 6 End of Report.

Run Number..... 7
Sample Name..... 0.5UG/ML AR1248
Run Date..... 5-MAY-1997 23:28:01
Raw File..... 10_0505_007
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



0.5UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5UG/ML AR1248
Datafile: 10_0505_007

Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 5-MAY-1997 23:28:01

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	7.32		1270	BB	1
	12.17		2836	BB	2
	13.02		567	BB	3
	13.89		13841	BV	4
	13.98		5792	VB	5
	14.33		1130	BB	6
	14.69		13489	BB	7
	15.38		2700	BV	8
	15.50		953	VV	9
	15.74		25616	VV	10
	15.80		31352	VB	11
AR1248-1	16.22	0.536	20377	BB	12
	16.54		16635	BV	13
	16.77		7326	VB	14
AR1248-2	17.20	0.534	30119	BV	15
	17.39		24605	VV	16
	17.54		21668	VB	17
AR1248-3	18.08	0.534	40244	BV	18
	18.24		19688	VB	19
AR1248-4	18.61	0.530	54672	BV	20
	18.96		11697	VV	21
	19.13		1735	VB	22
	19.37		2975	BV	23
	19.53		27345	VV	24
	19.67		49065	VV	25
AR1248-5	19.84	0.524	59705	VV	26
	20.14		5957	VB	27
	20.56		60593	BV	28
	20.77		25007	VV	29
	21.00		11248	VB	30
	21.26		689	BV	31
	21.47		2433	VB	32
	21.68		11312	BV	33
	21.89		20793	VV	34
	22.08		11834	VV	35
	22.29		31421	VB	36
	22.79		9756	BV	37
	22.96		2160	VV	38
	23.12		3144	VV	39
	23.32		30182	VB	40
	23.81		3043	BV	41
	23.90		1308	VB	42
	24.19		3506	BB	43
	24.42		25745	BB	44
	24.72		875	BB	45
	25.02		750	BV	46
	25.12		579	VV	47
	25.33		6462	VE	48
	25.44		846	EB	49
	25.68		839	BB	50

Run Number..7 Page 3

Sample ID: 0.5UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_007 Analysis Date: 5-MAY-1997 23:28:01

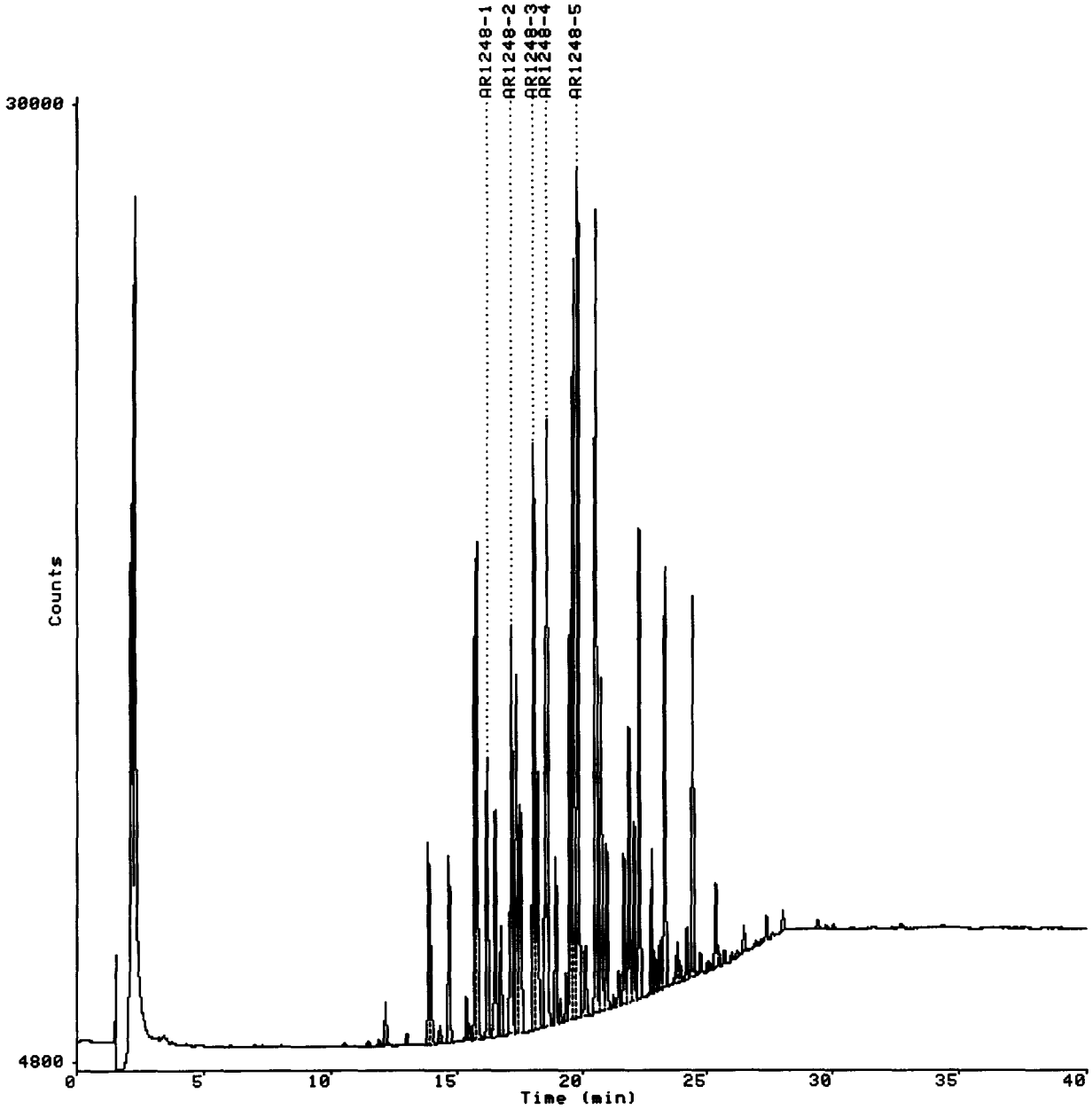
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	25.98		597	BB	51
	26.20		622	BB	52
	26.46		1965	BB	53
	27.36		1696	BB	54
	28.02		1515	BE	55
	29.39		732	BB	56

Average result...0.532 UG/ML

Run Number..... 7 End of Report.

Run Number..... 8
Sample Name..... 1.0UG/ML AR1248
Run Date..... 6-MAY-1997 00:14:19
Raw File..... 10_0505_008
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



1.0UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_008 Analysis Date: 6-MAY-1997 00:14:19

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.50		554	BB	1
	11.92		709	BB	2
	12.17		5297	BB	3
	13.02		1297	BB	4
	13.89		25093	BV	5
	13.99		10640	VB	6
	14.34		2284	BB	7
	14.70		24596	BB	8
	15.39		5184	BV	9
	15.51		1876	VV	10
	15.75		46457	VV	11
	15.81		58072	VB	12
AR1248-1	16.22	0.983	37027	BV	13
	16.55		30619	VV	14
	16.77		13532	VB	15
AR1248-2	17.20	0.984	55069	BV	16
	17.39		44646	VV	17
	17.55		39268	VB	18
AR1248-3	18.09	0.987	73862	BV	19
	18.24		35974	VV	20
AR1248-4	18.61	0.988	101210	VE	21
	18.84		548	EV	22
	18.96		21108	VV	23
	19.14		2880	VB	24
	19.37		5827	BV	25
	19.54		50152	VV	26
	19.68		91845	VV	27
AR1248-5	19.85	0.991	112391	VV	28
	20.15		11312	VB	29
	20.56		114478	BV	30
	20.77		44821	VV	31
	21.00		20691	VB	32
	21.27		1513	BV	33
	21.47		4522	VB	34
	21.68		20797	BV	35
	21.89		38540	VV	36
	22.08		21992	VV	37
	22.30		58441	VB	38
	22.79		18290	BV	39
	22.96		4064	VV	40
	23.12		5930	VV	41
	23.32		56164	VB	42
	23.81		6081	BV	43
	23.91		2575	VB	44
	24.20		6525	BV	45
	24.43		49084	VB	46
	24.73		2511	BB	47
	25.02		1338	BV	48
	25.12		1022	VB	49
	25.34		12283	BE	50

Sample ID: 1.0UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_008 Analysis Date: 6-MAY-1997 00:14:19

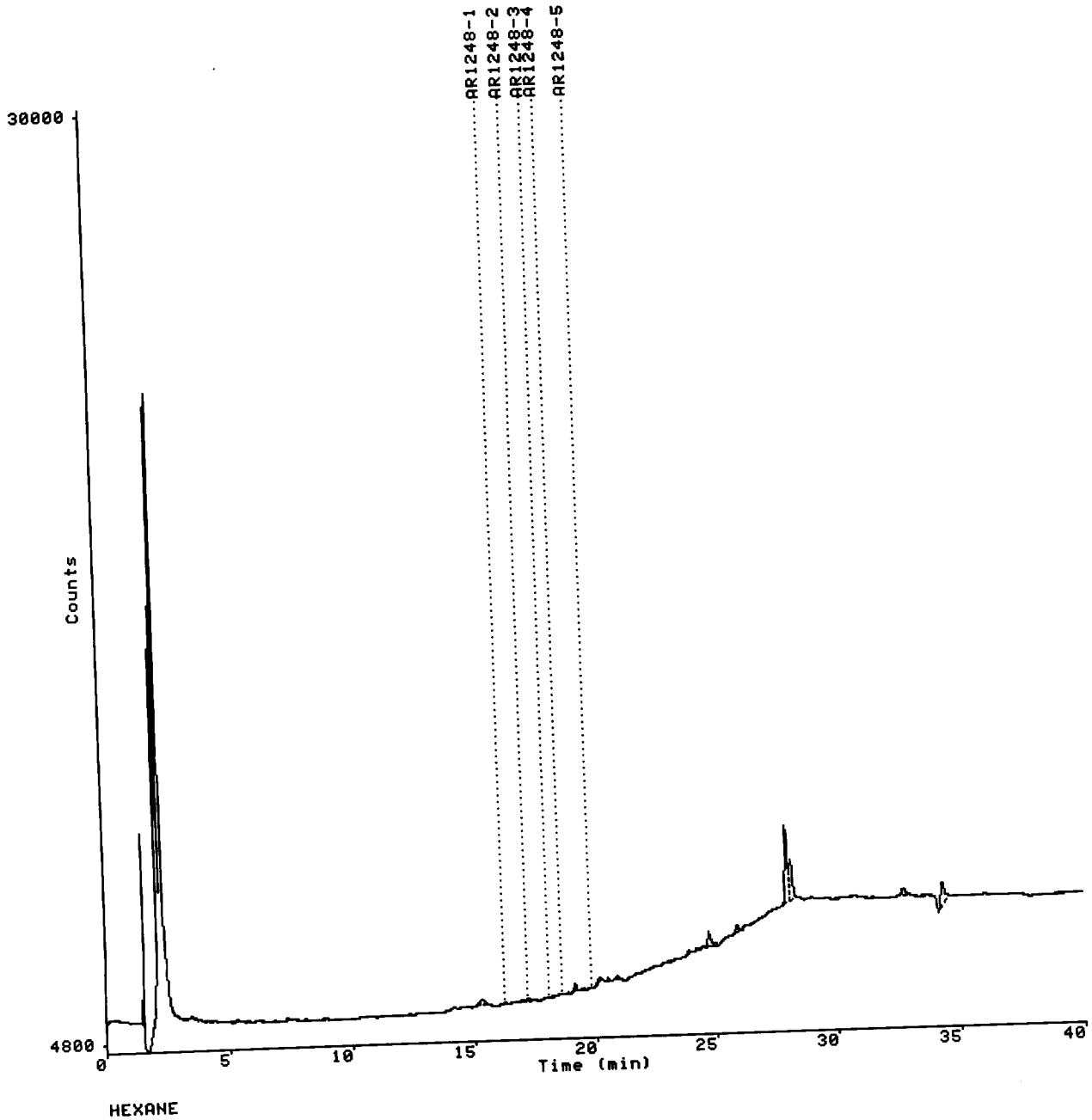
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	25.45		1582	EV	51
	25.69		1808	VB	52
	25.98		1177	BB	53
	26.20		907	BB	54
	26.47		3773	BE	55
	26.94		1021	BV	56
	27.17		647	VV	57
	27.37		3446	VV	58
	27.61		777	VV	59
	28.02		2668	BB	60
	29.40		1485	BB	61
	30.03		721	BB	62
	32.74		526	BB	63

Average result...0.987 UG/ML

Run Number..... 8 End of Report.

Run Number..... 14
Sample Name..... HEXANE
Run Date..... 6-MAY-1997 09:08:07
Raw File..... 10_0505_014
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 10

Entered Conversion Factor..100
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE
Datafile: 10_0505_014
Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Analysis Date: 6-MAY-1997 09:08:07

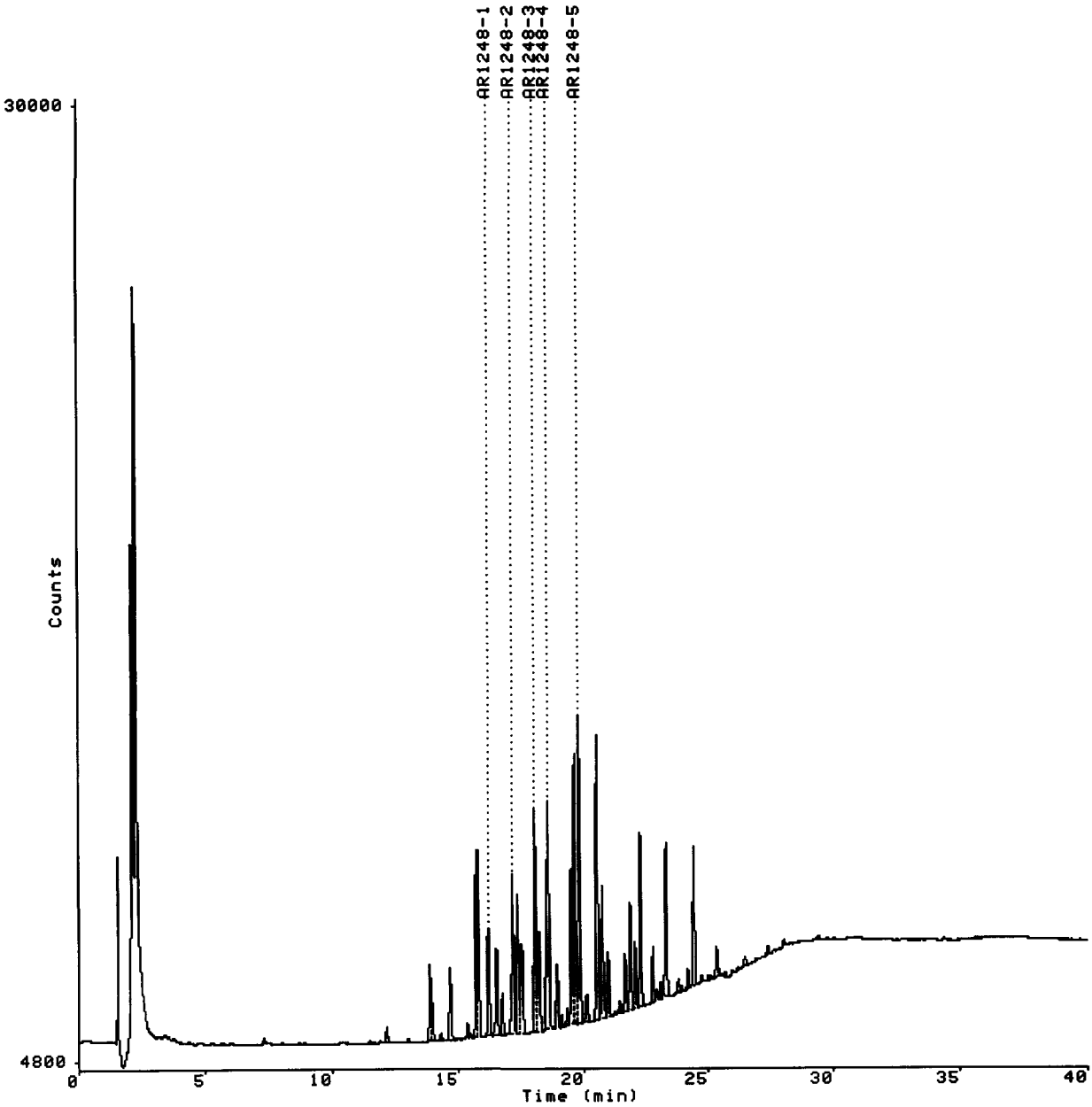
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	15.33		2688	BB	1
AR1248-2	17.20	0.00275	553	VB	2
	19.16		1054	BB	3
	23.86		552	BB	4
	24.71		3763	BV	5
	25.01		787	VB	6
	25.27		512	BB	7
	25.87		1520	BB	8
	27.97		15415	BV	9
	28.15		10261	VB	10
	32.76		3149	BB	11
	34.35		6066	BB	12

Average result...-0.00912 UG/G

Run Number..... 14 End of Report.

Run Number..... -1
Sample Name..... 0.4UG/ML AR1248
Run Date..... 6-MAY-1997 09:54:12
Raw File..... 10_0505_015
Method Name..... 10_AR1248_0505
Method Type..... Linear

V3400#4A 30M 0.53mm RTX-5 2ul Inj 8081



0.4UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_015 Analysis Date: 6-MAY-1997 09:54:12

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	7.31		734	BB	1
	12.16		1847	BB	2
	13.89		10142	BV	3
	13.98		4112	VB	4
	14.33		818	BB	5
	14.69		9697	BB	6
	15.38		1919	BV	7
	15.50		682	VV	8
	15.75		17486	VV	9
	15.80		23487	VB	10
AR1248-1	16.22	0.384	14730	BV	11
	16.54		11760	VV	12
	16.77		5183	VB	13
AR1248-2	17.19	0.385	21832	BV	14
	17.39		17700	VV	15
	17.54		15582	VB	16
AR1248-3	18.08	0.381	28831	BV	17
	18.24		14166	VB	18
AR1248-4	18.60	0.379	39379	BE	19
	18.96		8185	VV	20
	19.14		1534	VV	21
	19.37		2138	VV	22
	19.53		19519	VV	23
	19.67		35034	VV	24
AR1248-5	19.84	0.370	42327	VV	25
	20.14		4257	VB	26
	20.56		42557	BV	27
	20.77		17716	VV	28
	20.99		8158	VB	29
	21.46		1618	BB	30
	21.68		8106	BV	31
	21.89		14858	VV	32
	22.08		8403	VV	33
	22.29		22236	VB	34
	22.79		6970	BV	35
	22.96		1619	VV	36
	23.12		2113	VV	37
	23.32		21014	VB	38
	23.81		2107	BV	39
	23.91		972	VB	40
	24.19		2592	BV	41
	24.42		17844	VB	42
	24.72		933	BB	43
	25.02		565	BV	44
	25.33		4364	VE	45
	25.44		556	EB	46
	26.46		1455	BB	47
	27.36		1212	VB	48
	28.02		1045	BB	49
	29.39		591	BB	50

Run Number..-1 Page 3

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4A 30M 0.53mm RTX-5 2ul Inj 80
Datafile: 10_0505_015 Analysis Date: 6-MAY-1997 09:54:12

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	29.39		591	BB	51

Average result...0.380 UG/ML

Run Number..... -1 End of Report.

Notebook # 1166 Page# 67

Analytical Method: 8081
Instrument ID: V3400#4
Operator: [illegible] Initials: [illegible] Date: 5/5/97

GC Temperature Information

Initial Oven Temp: 150 C
Initial Oven Hold: 1 Min
Oven Temp. Ramp: 5 C/Min
Final Oven Temp: 280 C
Final Oven Hold: 11 Min
Injector Temp: 200 C
Detector Temp: 300 C
Injection Vol: 2.0 uL
Detector A,B : ECD,ECD
Range: 10
Attn : 8

FLOW(He) @ PSI 10 mL/Min

Column Information

Column 1 : RTX-5 Channel 10
5%-Diphenyl - 95% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 1.0 uM

Column 2 : RTX-35 Channel 11
35%-Diphenyl - 65% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 0.50 uM

Test Performed: PCB
Method Number: 8081
Date: 5/5/97
Work Performed By: [illegible]

Ch.11 Confirmation
Sch Job #860

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
	HEXANE	1	11_0505_001		N50315	[illegible]
	HEXANE	2	11_0505_002			
	HEXANE	3	11_0505_003			
	0.1UG/ML AR1248	4	11_0505_004		445-163-3	
	0.2UG/ML AR1248	5	11_0505_005		445-163-2	
	0.4UG/ML AR1248	6	11_0505_006		445-163-3	
	0.5UG/ML AR1248	7	11_0505_007		445-163-4	
	1.0UG/ML AR1248	8	11_0505_008		445-163-5	
9700 860	SLCS1164-132-1 2X	9	11_0505_009		Hy Meid	
	SBLK1164-132-2 1X	10	11_0505_010			
	65106 5X	11	11_0505_011			
	65107 10X	12	11_0505_012			
	65108 1X	13	11_0505_013			
	HEXANE	14	11_0505_014		N50315	
	0.4UG/ML AR1248	15	11_0505_015		445-163-3	
	65109 10X	16	11_0505_016		Hy Meid	
	65110 1X	17	11_0505_017			
	65111 20X	18	11_0505_018			
	65112 10X	19	11_0505_019			
	65113 500X	20	11_0505_020			
	65112 MS 10X	21	11_0505_021			
	65112 MSD 10X	22	11_0505_022			
	0.4UG/ML AR1248	23	11_0505_023		445-163-3	

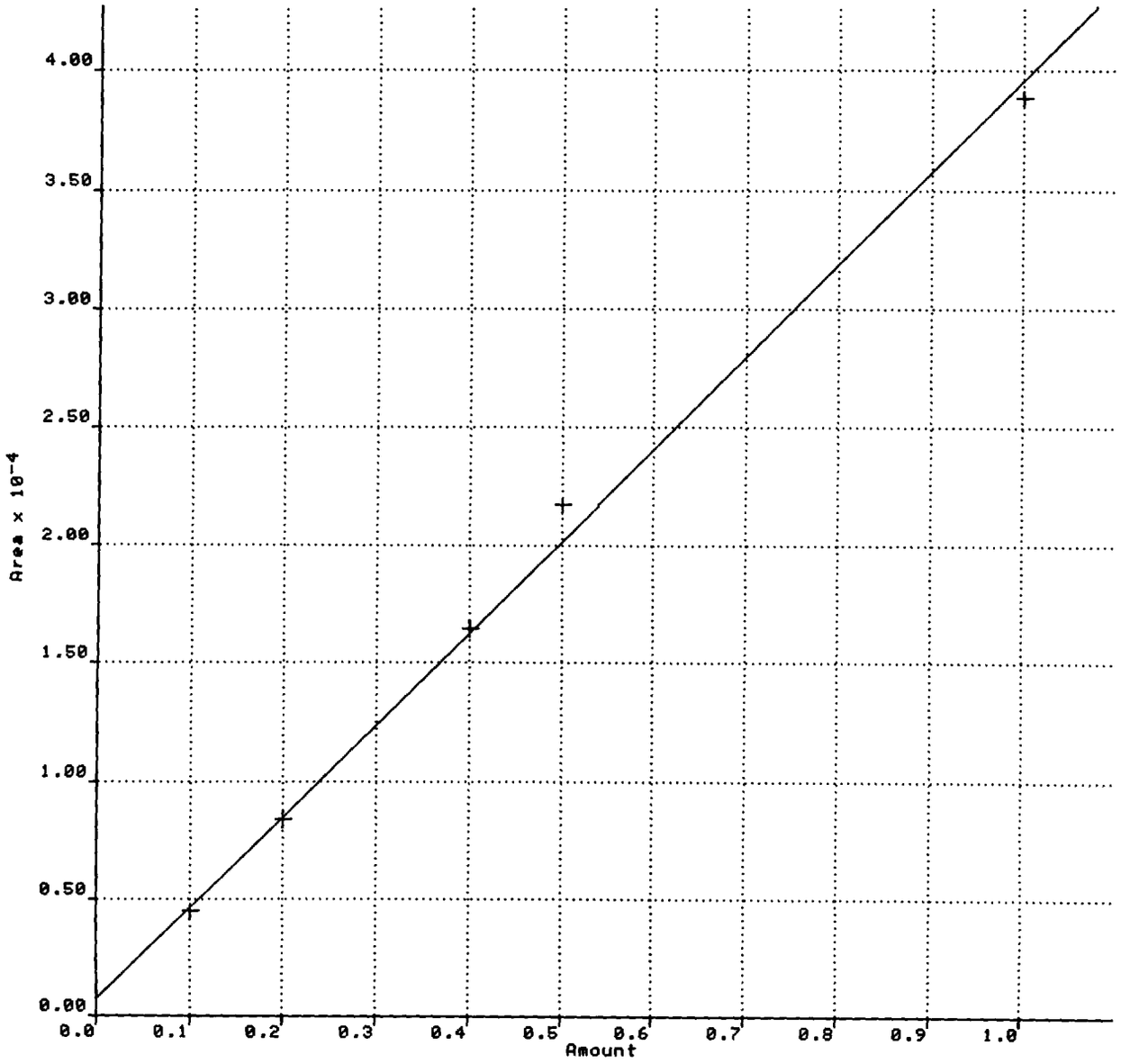
[illegible] 5/8/97

To Page No. _____

Witnessed & Understood by me, Richard Lamson Date 5/7/97 Invented by _____ Date _____ Recorded by _____

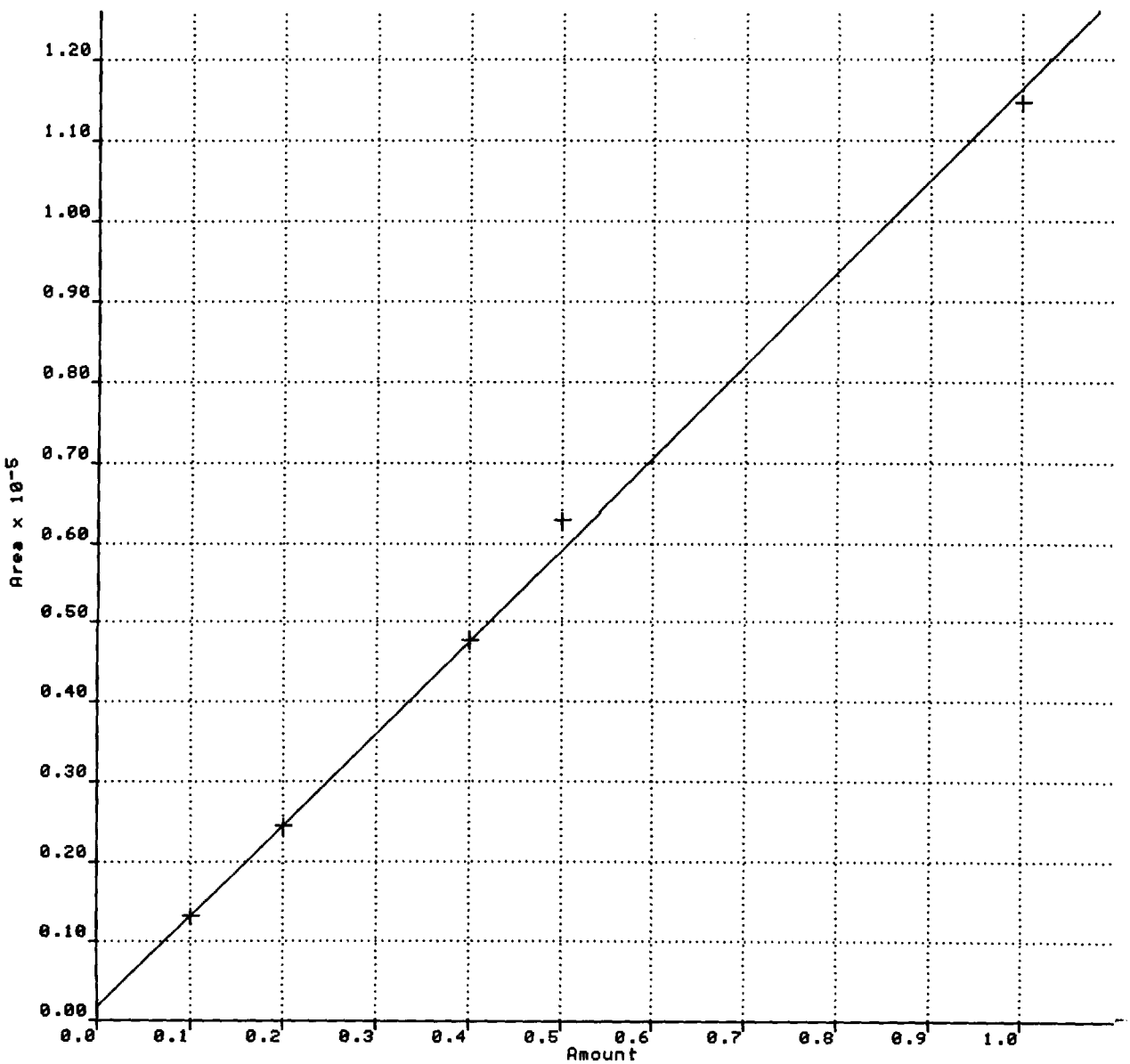
Method: DKB0:[NEARY]11_AR1248_0505.MET;8
Component: AR1248-1
Date: 6-MAY-1997 10:58:06.57
Linear fit, Origin Treament....Use.
K0: 6.9415E+02 K1: 3.8985E+04
Coeff. of determination: 0.9958

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	16494	0.40000	
0.1UG/ML AR1248	4451	0.10000	
0.2UG/ML AR1248	8383	0.20000	
0.5UG/ML AR1248	21756	0.50000	
1.0UG/ML AR1248	38848	1.0000	



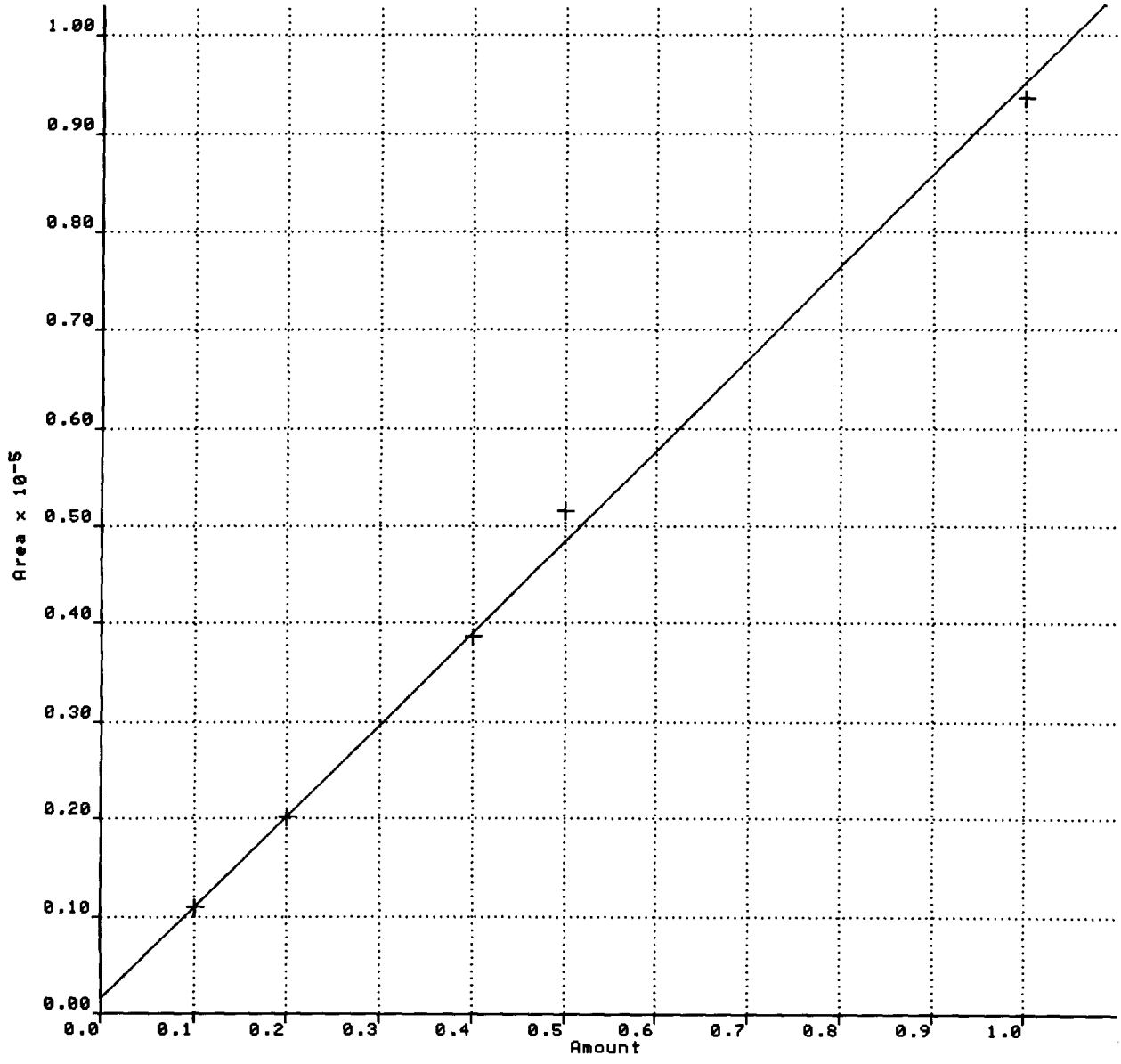
Method: DKB0:[NEARY]11_AR1248_0505.MET;8
Component: AR1248-2
Date: 6-MAY-1997 10:58:06.89
Linear fit, Origin Treament....Use.
K0: 1.7623E+03 K1: 1.1483E+05
Coeff. of determination: 0.9974

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	47786	0.40000	
0.1UG/ML AR1248	13268	0.10000	
0.2UG/ML AR1248	24503	0.20000	
0.5UG/ML AR1248	62905	0.50000	
1.0UG/ML AR1248	114728	1.0000	



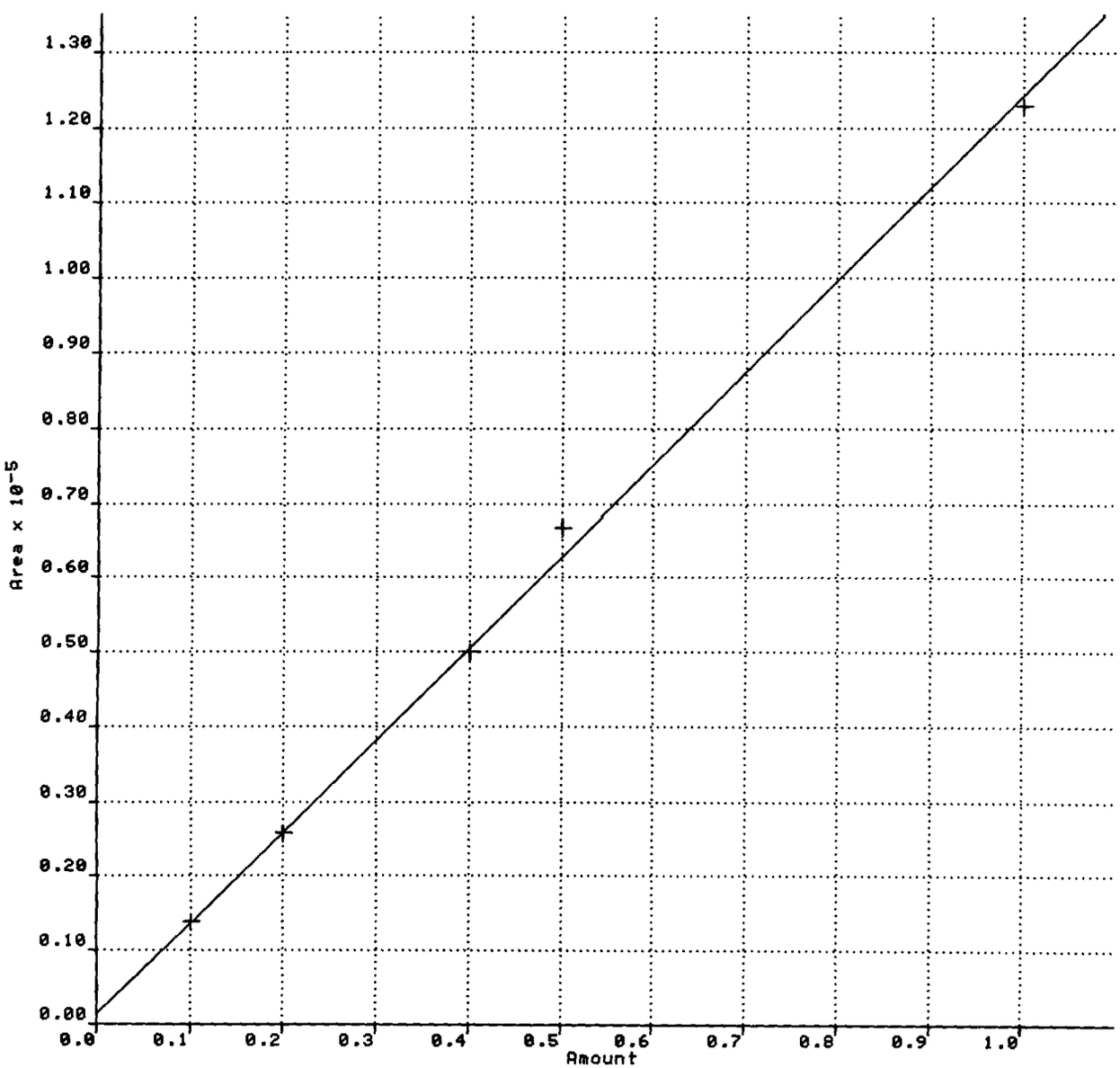
Method: DKB0:[NEARY]11_AR1248_0505.MET;8
Component: AR1248-3
Date: 6-MAY-1997 10:58:07.21
Linear fit, Origin Treament....Use.
K0: 1.5615E+03 K1: 9.3484E+04
Coeff. of determination: 0.9971

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	38723	0.40000	
0.1UG/ML AR1248	10987	0.10000	
0.2UG/ML AR1248	20268	0.20000	
0.5UG/ML AR1248	51551	0.50000	
1.0UG/ML AR1248	93505	1.0000	



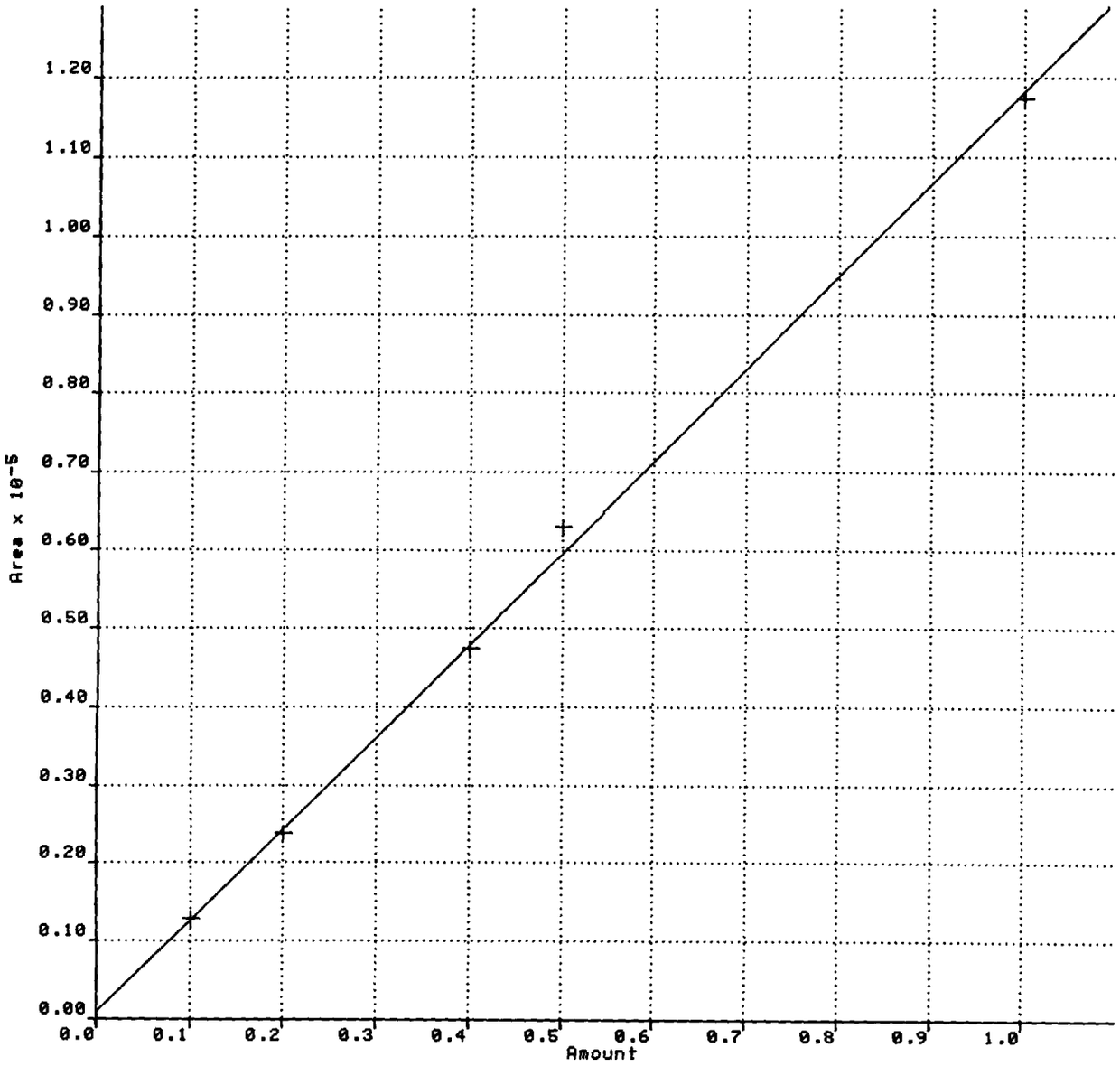
Method: DKB0:[NEARY]11_AR1248_0505.MET;8
Component: AR1248-4
Date: 6-MAY-1997 10:58:07.68
Linear fit, Origin Treament....Use.
K0: 1.4298E+03 K1: 1.2313E+05
Coeff. of determination: 0.9978

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	50087	0.40000	
0.1UG/ML AR1248	13832	0.10000	
0.2UG/ML AR1248	25847	0.20000	
0.5UG/ML AR1248	66743	0.50000	
1.0UG/ML AR1248	122958	1.0000	



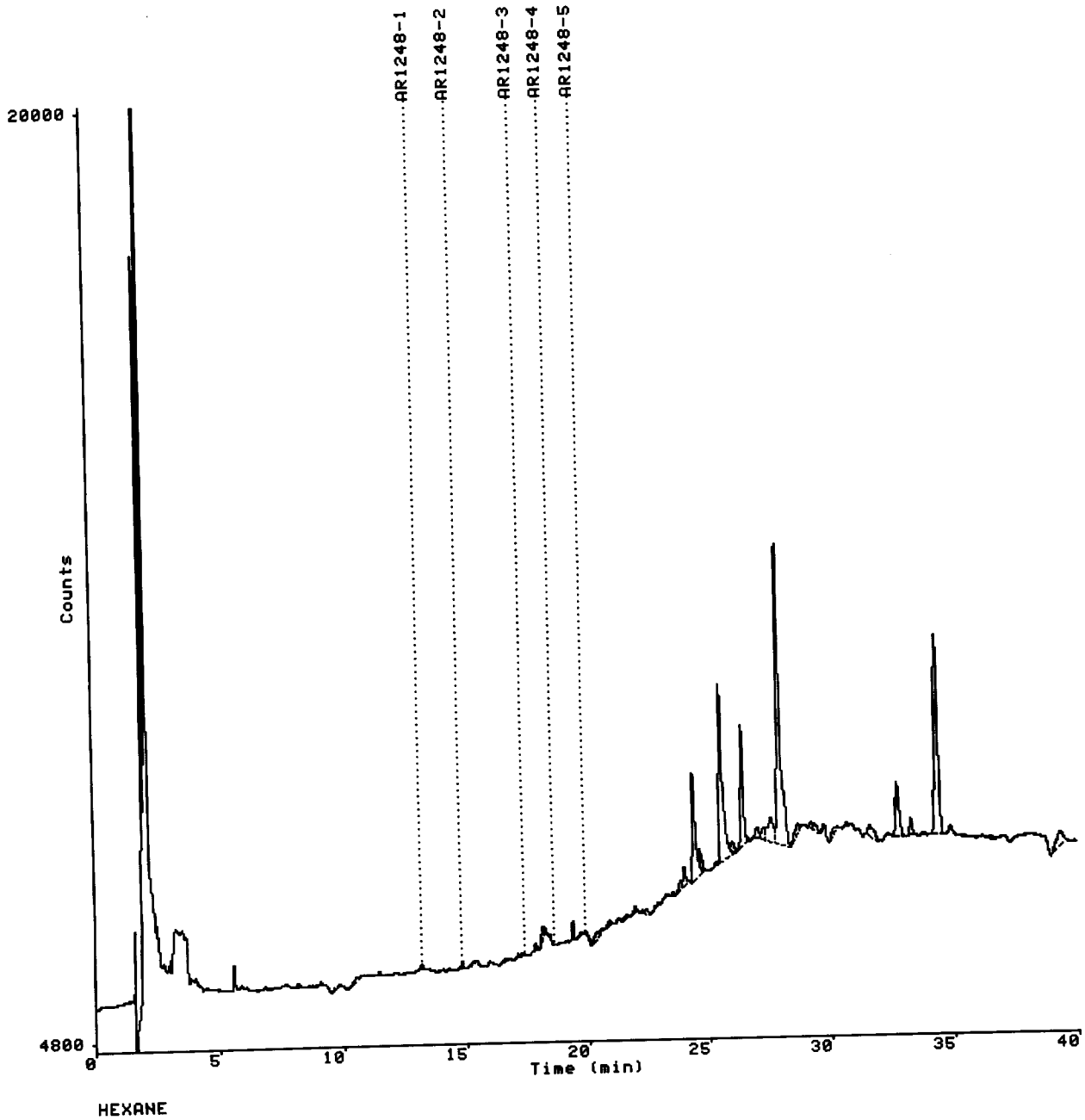
Method: DKB0:[NEARY]11_AR1248_0505.MET;8
Component: AR1248-5
Date: 6-MAY-1997 10:58:08.12
Linear fit, Origin Treament....Use.
K0: 9.7248E+02 K1: 1.1767E+05
Coeff. of determination: 0.9981

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.4UG/ML AR1248	47360	0.40000	
0.1UG/ML AR1248	12960	0.10000	
0.2UG/ML AR1248	23888	0.20000	
0.5UG/ML AR1248	63155	0.50000	
1.0UG/ML AR1248	117336	1.0000	



Run Number..... 1
Sample Name..... HEXANE
Run Date..... 5-MAY-1997 18:50:24
Raw File..... 11_0505_001
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_001 Analysis Date: 5-MAY-1997 18:50:24

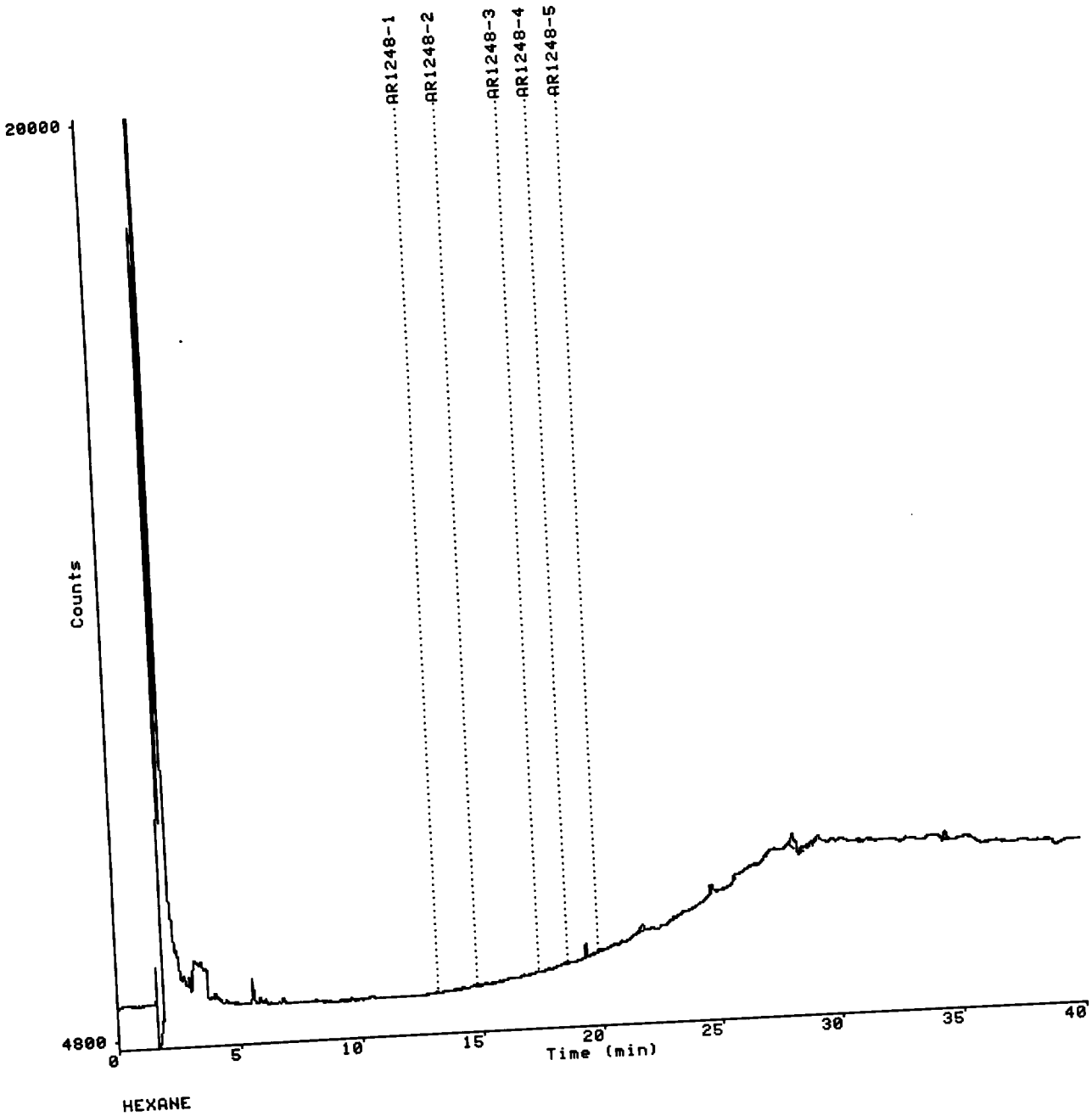
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	10.56		653	BB	1
AR1248-2	14.86	-0.00943	680	VB	2
	16.65		505	BB	3
	17.86		787	BB	4
	18.17		879	BB	5
	19.39		1274	BB	6
	20.38		1742	BB	7
	20.91		812	BB	8
	21.95		540	BB	9
	22.43		602	VB	10
	23.82		1081	BV	11
	24.00		2031	VB	12
	24.39		16841	BE	13
	24.65		2321	EB	14
	25.32		650	BV	15
	25.53		30578	VE	16
	25.99		1737	EB	17
	26.41		14556	BE	18
	27.01		1481	BV	19
	27.28		2014	VV	20
	27.58		6314	VV	21
	27.92		48525	VB	22
	28.61		1900	BB	23
	29.24		745	BV	24
	29.42		1329	VB	25
	30.22		729	BB	26
	30.70		559	BB	27
	31.73		2839	BB	28
	32.77		8799	BB	29
	33.32		2070	BB	30
	34.38		33236	BB	31
	39.36		4696	BB	32
	41.00		889	BB	33

Average result...-0.00416 UG/ML

Run Number..... 1 End of Report.

Run Number..... 2
Sample Name..... HEXANE
Run Date..... 5-MAY-1997 19:36:43
Raw File..... 11_0505_002
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_002 Analysis Date: 5-MAY-1997 19:36:43

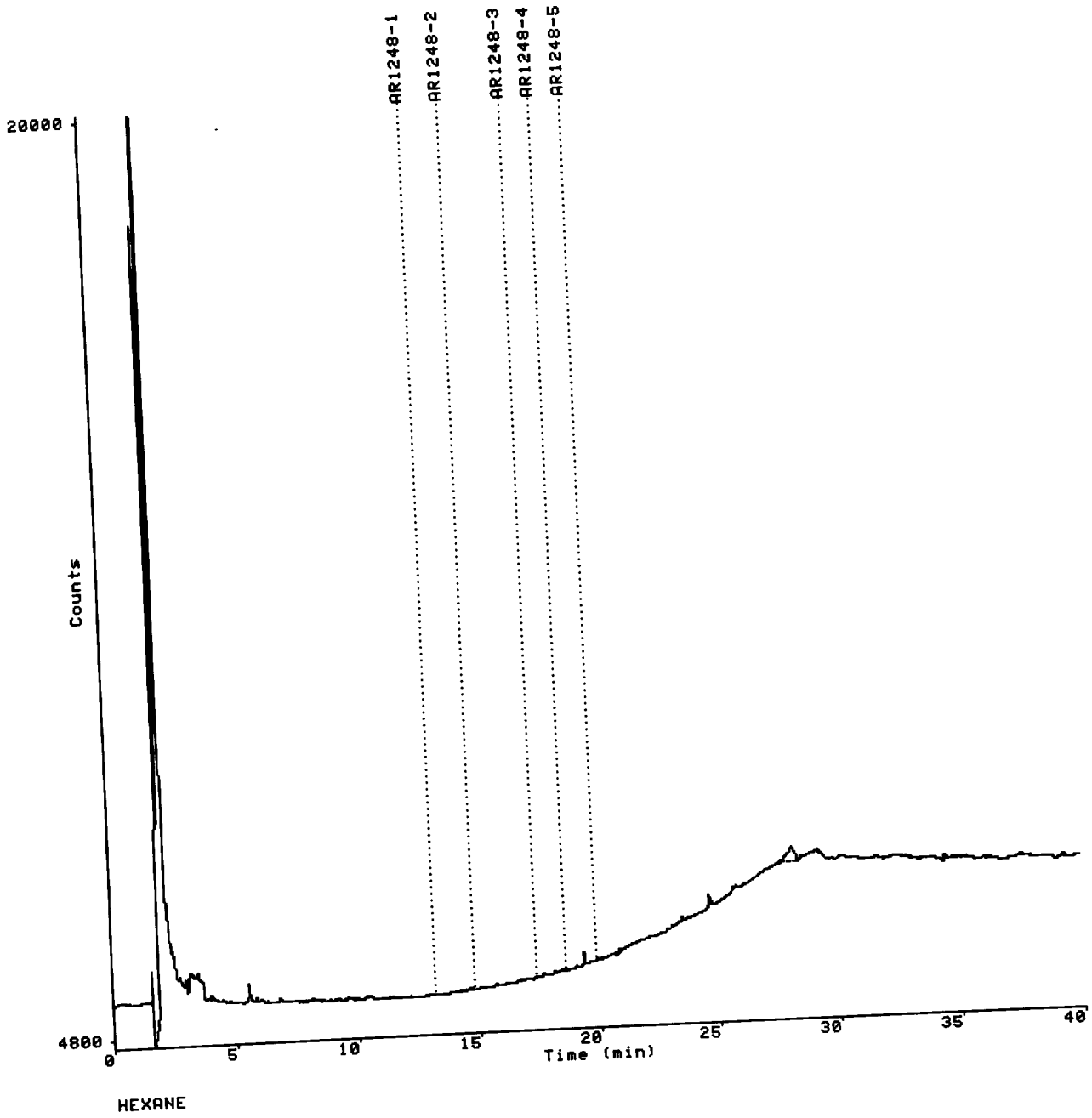
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	19.40		910	BB	1
	21.80		1713	BB	2
	24.67		766	BV	3
	24.75		679	VB	4
	27.13		562	BB	5
	28.17		2941	BB	6
	28.74		2516	BV	7
	29.25		1482	VB	8
	34.52		1134	BB	9

Average result...-0.00155 UG/ML

Run Number..... 2 End of Report.

Run Number..... 3
Sample Name..... HEXANE
Run Date..... 5-MAY-1997 20:23:01
Raw File..... 11_0505_003
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_003 Analysis Date: 5-MAY-1997 20:23:01

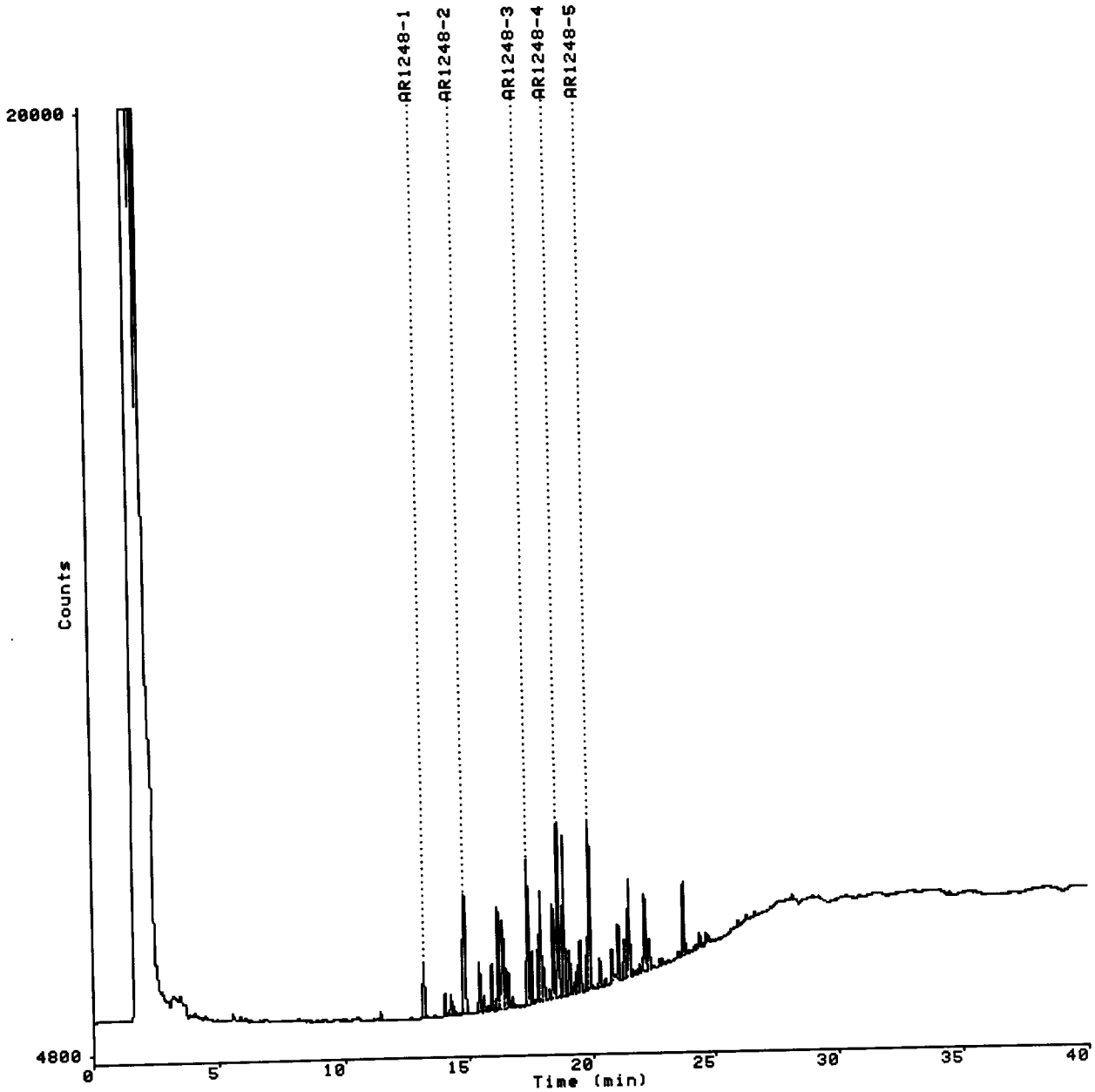
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	19.39		854	BB	1
	24.65		745	BB	2
	28.15		5561	BB	3
	34.51		538	BB	4

Average result...-0.00467 UG/ML

Run Number..... 3 End of Report.

Run Number..... 4
Sample Name..... 0.1UG/ML AR1248
Run Date..... 5-MAY-1997 21:09:17
Raw File..... 11_0505_004
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



0.1UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1UG/ML AR1248
Datafile: 11_0505_004

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 5-MAY-1997 21:09:17

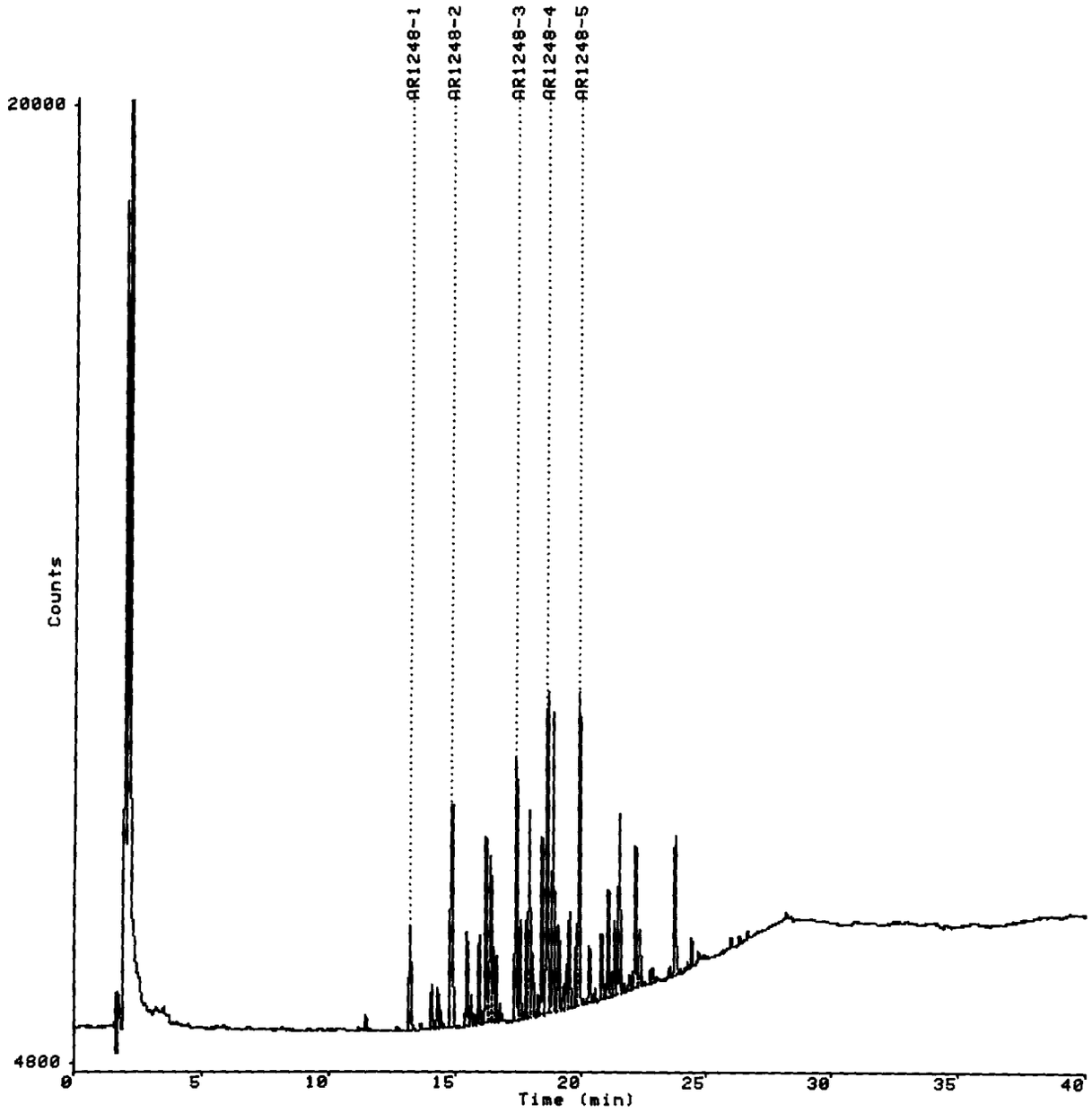
Peak Name	R.T. (min)	UG/ML	Peak Area	BL	PEAK NO.
AR1248-1	13.19	0.0964	4451	BB	1
	14.06		1471	BB	2
	14.29		1447	BV	3
AR1248-2	14.84	0.100	13268	BB	4
	15.44		3520	BV	5
	15.62		1099	VV	6
	15.94		3122	VB	7
	16.20		7119	BV	8
	16.39		7942	VV	9
	16.50		2525	VV	10
	16.61		2322	VV	11
	16.78		637	VB	12
AR1248-3	17.41	0.101	10987	BV	13
	17.57		3577	VV	14
	17.82		3553	VV	15
	17.93		7681	VV	16
	18.06		2288	VB	17
	18.29		630	BV	18
	18.43		6593	VV	19
AR1248-4	18.65	0.101	13832	VV	20
	18.87		11348	VB	21
	19.09		3105	BV	22
	19.28		741	VV	23
	19.41		2007	VV	24
	19.53		3774	VB	25
	19.81		2379	BV	26
AR1248-5	19.91	0.102	12960	VE	27
	20.32		2228	BB	28
	20.81		2012	BB	29
	21.07		3439	BB	30
	21.32		2703	BV	31
	21.51		7306	VE	32
	21.94		814	VV	33
	22.15		5829	VV	34
	22.33		2479	VE	35
	23.72		5418	BE	36
	24.38		1064	VB	37

Average result...0.100 UG/ML

Run Number..... 4 End of Report.

Run Number..... 5
Sample Name..... 0.2UG/ML AR1248
Run Date..... 5-MAY-1997 21:55:34
Raw File..... 11_0505_005
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



0.2UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_005 Analysis Date: 5-MAY-1997 21:55:34

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.45		933	BB	1
AR1248-1	13.19	0.197	8383	BB	2
	14.06		2818	BV	3
	14.29		2815	VV	4
	14.38		1027	VV	5
AR1248-2	14.84	0.198	24503	BB	6
	15.44		6708	BV	7
	15.63		2130	VV	8
	15.81		651	VV	9
	15.95		5973	VB	10
	16.21		13067	BV	11
	16.39		14681	VV	12
	16.50		4790	VV	13
	16.62		4384	VV	14
	16.79		1139	VB	15
AR1248-3	17.41	0.200	20268	BV	16
	17.57		6989	VE	17
	17.83		6735	VV	18
	17.93		14508	VV	19
	18.07		4479	VV	20
	18.30		1447	VV	21
	18.44		12430	VV	22
AR1248-4	18.65	0.198	25847	VV	23
	18.88		21326	VV	24
	19.10		6194	VV	25
	19.28		1583	VV	26
	19.41		3136	VV	27
	19.54		7109	VB	28
	19.81		4526	BV	29
AR1248-5	19.91	0.195	23888	VE	30
	20.33		4232	BB	31
	20.56		926	BB	32
	20.82		5438	BE	33
	20.97		1060	EV	34
	21.08		7507	VB	35
	21.33		5072	BV	36
	21.51		13446	VE	37
	21.69		609	EV	38
	21.94		1267	VV	39
	22.16		10491	VV	40
	22.34		4560	VE	41
	22.78		1048	BV	42
	22.86		1002	VB	43
	23.53		647	BB	44
	23.73		10408	BE	45
	24.38		2014	BB	46
	24.66		533	BB	47
	25.96		1019	VB	48
	26.31		598	BB	49
	26.64		601	VB	50

Sample ID: 0.2UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_005 Analysis Date: 5-MAY-1997 21:55:34

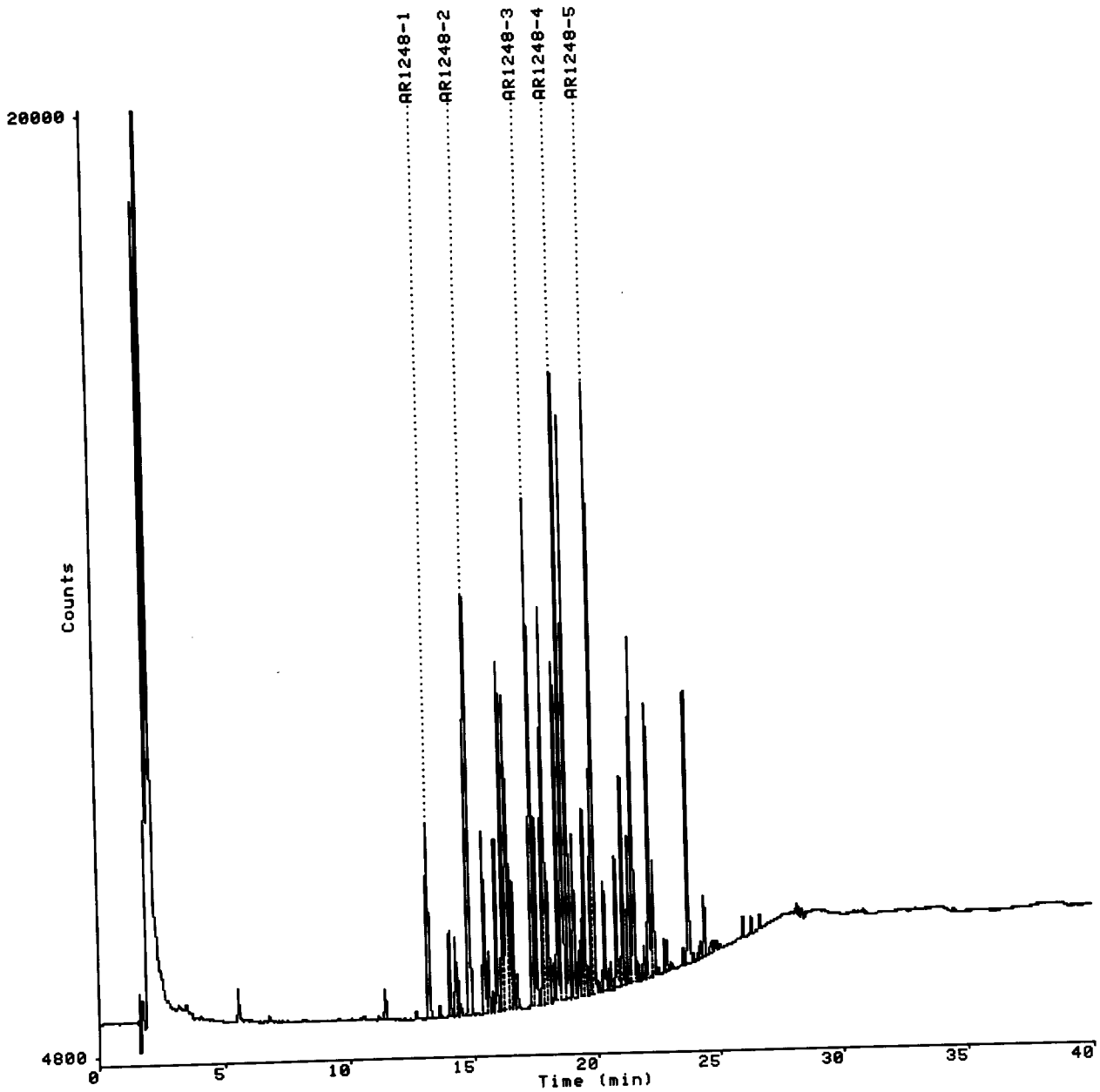
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	26.64		601	VB	51

Average result...0.198 UG/ML

Run Number..... 5 End of Report.

Run Number..... 6
Sample Name..... 0.4UG/ML AR1248
Run Date..... 5-MAY-1997 22:41:50
Raw File..... 11_0505_006
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



0.4UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_006 Analysis Date: 5-MAY-1997 22:41:50

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.44		1955	BB	1
	12.70		538	BB	2
AR1248-1	13.19	0.405	16494	BB	3
	13.63		901	BB	4
	14.05		5708	BV	5
	14.28		5712	VV	6
	14.36		2172	VV	7
	14.50		757	VB	8
AR1248-2	14.84	0.401	47786	BB	9
	15.44		13412	BV	10
	15.62		4403	VV	11
	15.80		1409	VV	12
	15.94		12060	VB	13
	16.20		25091	BV	14
	16.38		28731	VV	15
	16.49		9585	VV	16
	16.61		8821	VV	17
	16.78		2288	VB	18
AR1248-3	17.40	0.398	38723	BV	19
	17.56		13246	VE	20
	17.82		12839	VV	21
	17.92		28037	VV	22
	18.06		8326	VB	23
	18.29		2551	BV	24
	18.43		23847	VV	25
AR1248-4	18.64	0.395	50087	VV	26
	18.87		41535	VV	27
	19.09		12126	VV	28
	19.27		3228	VV	29
	19.41		5467	VV	30
	19.53		14181	VB	31
	19.80		9226	BV	32
AR1248-5	19.90	0.394	47360	VE	33
	20.06		787	EV	34
	20.32		8778	VB	35
	20.55		1940	BB	36
	20.80		11153	BE	37
	20.96		1913	EV	38
	21.07		15156	VV	39
	21.32		10486	VV	40
	21.50		26986	VE	41
	21.68		1425	EV	42
	21.93		2836	VV	43
	22.15		21189	VV	44
	22.33		9193	VE	45
	22.77		2205	BV	46
	22.86		2189	VV	47
	23.03		874	VB	48
	23.52		1141	BB	49
	23.72		21189	BE	50

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_006 Analysis Date: 5-MAY-1997 22:41:50

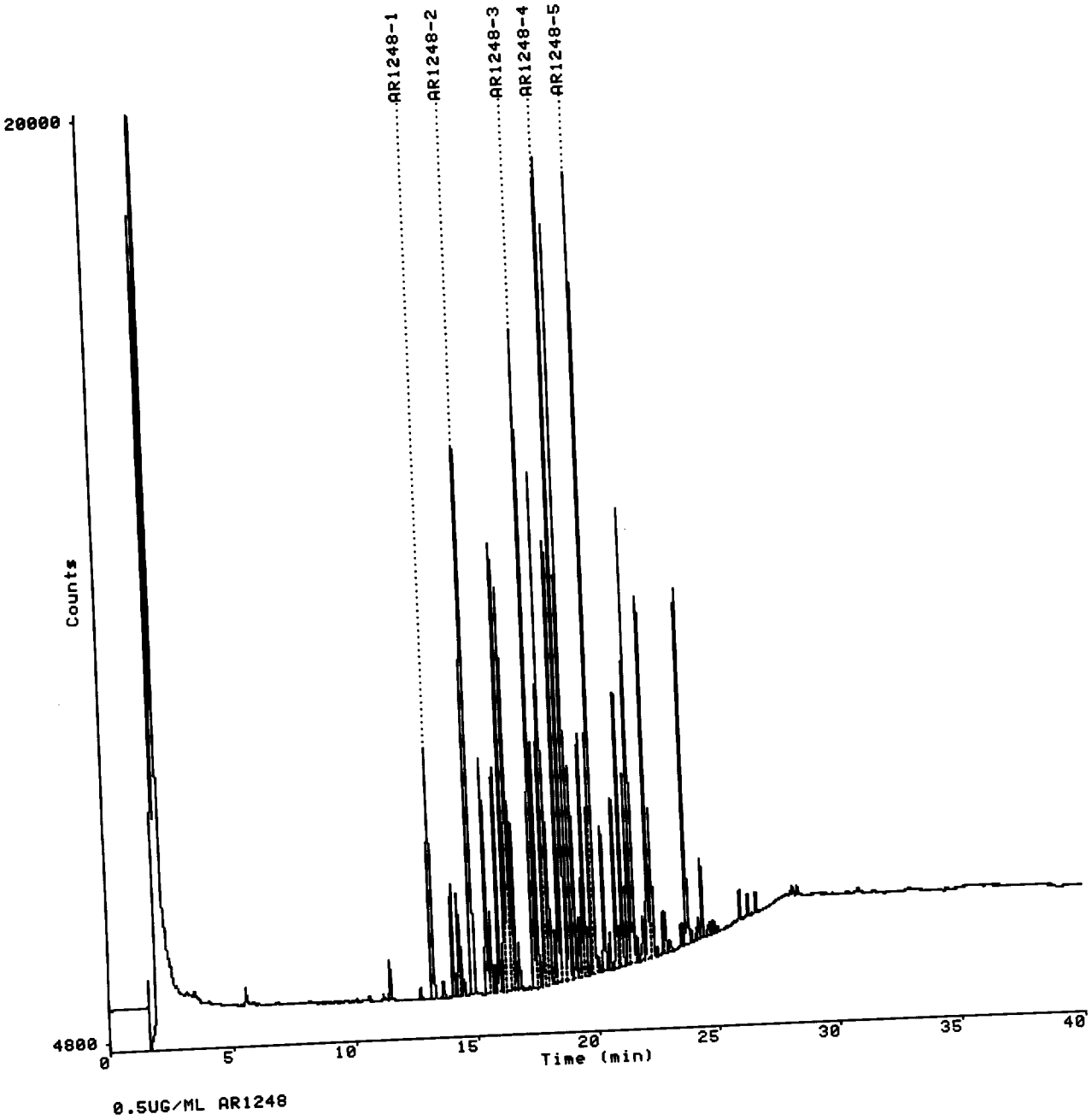
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.94		525	EB	51
	24.22		1236	VV	52
	24.38		4242	VV	53
	24.65		1012	VV	54
	24.74		746	VV	55
	24.86		735	VV	56
	25.95		1562	BB	57
	26.30		1253	BB	58
	26.63		1112	BB	59
	28.17		933	BV	60
	28.35		697	VB	61

Average result...0.399 UG/ML

Run Number..... 6 End of Report.

Run Number..... 7
Sample Name..... 0.5UG/ML AR1248
Run Date..... 5-MAY-1997 23:27:59
Raw File..... 11_0505_007
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_007 Analysis Date: 5-MAY-1997 23:27:59

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.45		2662	BB	1
	12.70		755	BB	2
AR1248-1	13.19	0.540	21756	BB	3
	13.64		1212	BB	4
	14.06		7967	BV	5
	14.29		7555	VV	6
	14.37		2969	VV	7
	14.50		1065	VB	8
AR1248-2	14.84	0.532	62905	BB	9
	15.44		17728	BV	10
	15.62		5991	VV	11
	15.81		1955	VV	12
	15.94		16147	VV	13
	16.20		33029	VV	14
	16.39		38098	VV	15
	16.50		12841	VV	16
	16.61		11938	VV	17
	16.78		3421	VE	18
AR1248-3	17.41	0.535	51551	BV	19
	17.57		17951	VE	20
	17.83		17176	VV	21
	17.93		37455	VV	22
	18.07		11832	VV	23
	18.29		3739	VV	24
	18.44		31856	VV	25
AR1248-4	18.65	0.530	66743	VV	26
	18.87		55436	VV	27
	19.10		16292	VV	28
	19.28		4451	VV	29
	19.41		7135	VV	30
	19.53		18765	VB	31
	19.81		11947	BV	32
AR1248-5	19.91	0.528	63155	VE	33
	20.06		1059	EV	34
	20.33		11706	VB	35
	20.56		2609	BB	36
	20.81		14181	BV	37
	20.97		3371	VV	38
	21.08		20150	VV	39
	21.32		14104	VV	40
	21.51		35913	VE	41
	21.69		1971	EV	42
	21.94		3914	VV	43
	22.15		28119	VV	44
	22.33		12485	VE	45
	22.51		712	EB	46
	22.78		3130	BV	47
	22.86		2981	VV	48
	23.03		1157	VB	49
	23.53		1614	BB	50

Sample ID: 0.5UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_007 Analysis Date: 5-MAY-1997 23:27:59

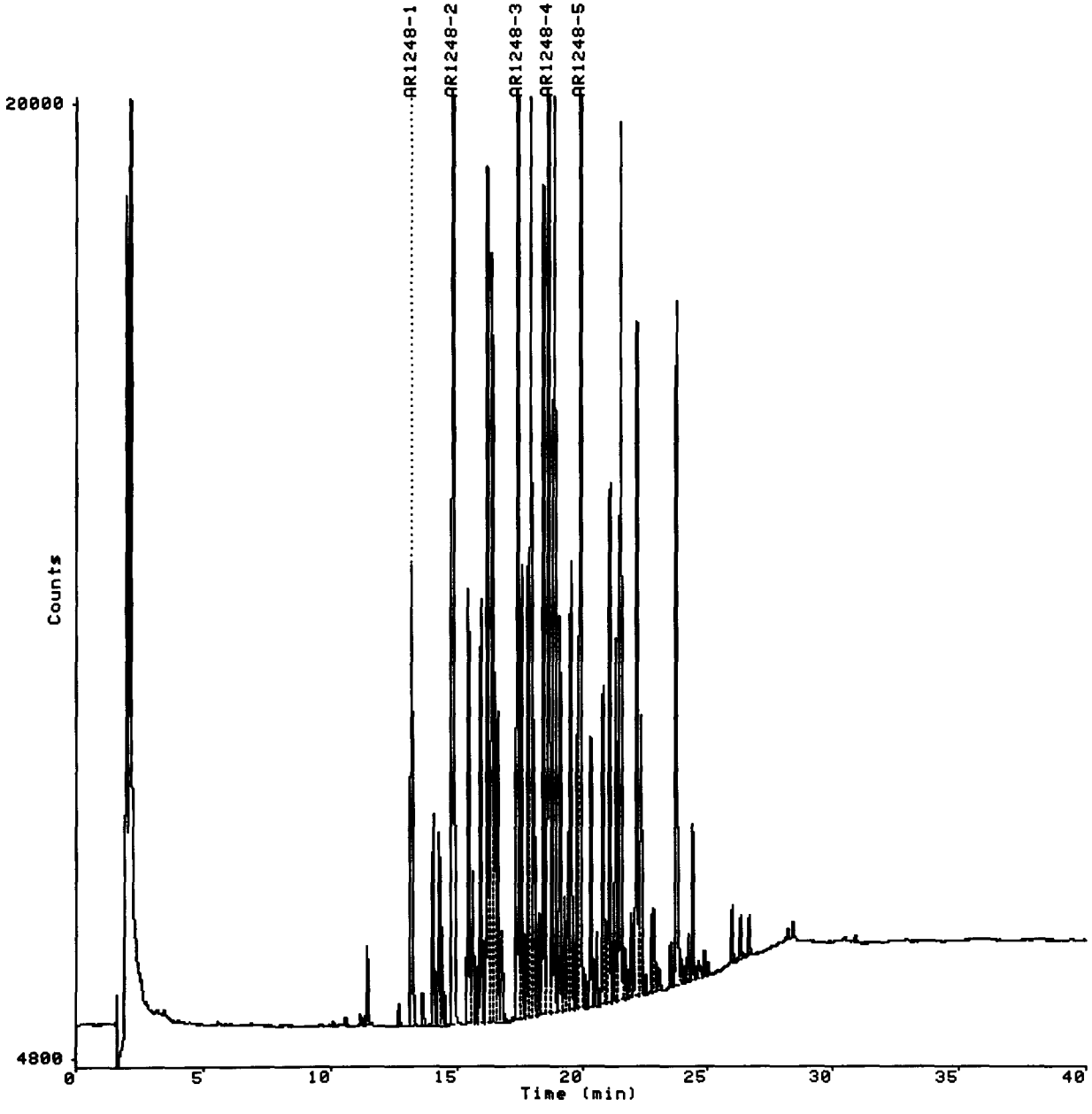
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.72		28370	BE	51
	23.94		746	EB	52
	24.22		1644	VV	53
	24.38		5761	VB	54
	24.65		1145	BV	55
	24.74		986	VV	56
	24.87		1008	VV	57
	25.96		2232	VB	58
	26.30		1781	BB	59
	26.63		1592	BB	60
	28.17		1797	BV	61
	28.38		756	VB	62

Average result...0.533 UG/ML

Run Number..... 7 End of Report.

Run Number..... 8
Sample Name..... 1.0UG/ML AR1248
Run Date..... 6-MAY-1997 00:14:21
Raw File..... 11_0505_008
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



1.0UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_008 Analysis Date: 6-MAY-1997 00:14:21

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.19		704	BB	1
	11.45		5027	BB	2
	12.70		1495	BB	3
AR1248-1	13.19	0.979	38848	BB	4
	13.64		2386	BB	5
	14.06		14723	BV	6
	14.29		13719	VV	7
	14.37		5585	VV	8
	14.51		2069	VB	9
AR1248-2	14.85	0.984	114728	BB	10
	15.45		32145	BV	11
	15.63		10979	VV	12
	15.81		3806	VV	13
	15.95		29344	VV	14
	16.21		60108	VV	15
	16.39		68495	VV	16
	16.50		23106	VV	17
	16.62		21606	VV	18
	16.79		6457	VE	19
AR1248-3	17.41	0.984	93505	BV	20
	17.57		31951	VE	21
	17.71		758	EV	22
	17.83		30759	VV	23
	17.93		67813	VV	24
	18.07		20495	VV	25
	18.30		6784	VV	26
	18.44		57510	VV	27
AR1248-4	18.65	0.987	122958	VV	28
	18.88		102435	VV	29
	19.10		29232	VV	30
	19.28		8224	VV	31
	19.42		12464	VV	32
	19.54		33837	VB	33
	19.81		21866	BV	34
AR1248-5	19.91	0.989	117336	VE	35
	20.07		2107	EV	36
	20.33		21502	VV	37
	20.56		5023	VB	38
	20.82		26218	BV	39
	20.97		6160	VV	40
	21.08		36689	VV	41
	21.33		25763	VV	42
	21.52		65832	VE	43
	21.69		3803	EV	44
	21.82		595	EV	45
	21.94		6812	VV	46
	22.16		51419	VV	47
	22.34		23017	VE	48
	22.51		1381	EB	49
	22.78		5860	BV	50

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Sample ID: 1.0UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_008 Analysis Date: 6-MAY-1997 00:14:21

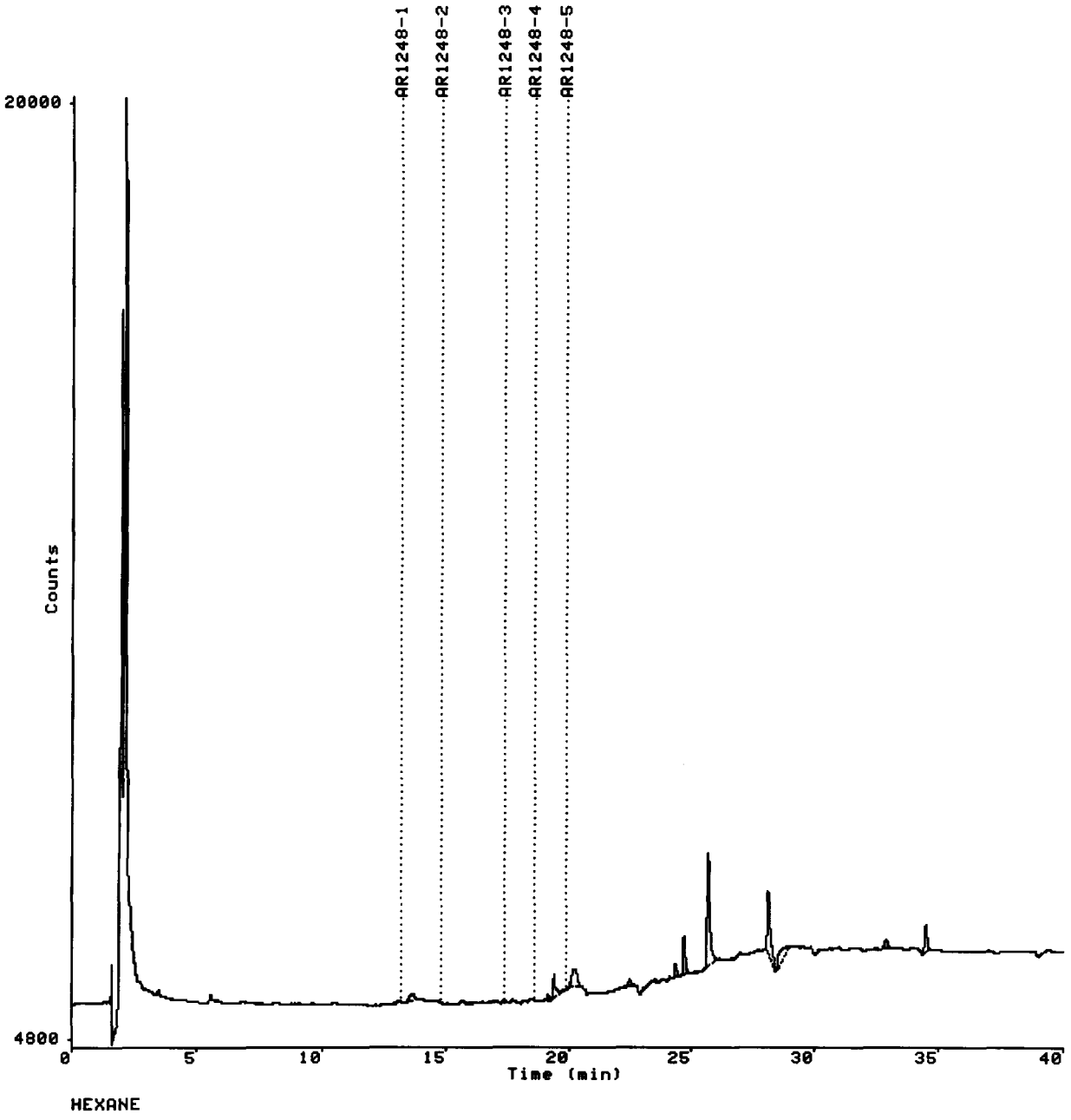
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	22.86		5679	VV	51
	23.03		2088	VB	52
	23.53		3030	BB	53
	23.73		52761	BE	54
	23.94		1498	EV	55
	24.13		1073	EV	56
	24.23		3393	VV	57
	24.38		11156	VV	58
	24.64		2231	VV	59
	24.87		1971	VV	60
	25.01		888	VB	61
	25.96		4265	VB	62
	26.31		3415	BE	63
	26.64		3140	VB	64
	28.18		981	BV	65
	28.39		1201	VB	66

Average result...0.984 UG/ML

Run Number..... 8 End of Report.

Run Number..... 14
Sample Name..... HEXANE
Run Date..... 6-MAY-1997 09:08:05
Raw File..... 11_0505_014
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Sample Weight..... 30.0 G
Dilution Factor... 1
Dilution Factor... 1

Entered Conversion Factor..10.0
Entered Sample Amount.....30.0

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_014 Analysis Date: 6-MAY-1997 09:08:05

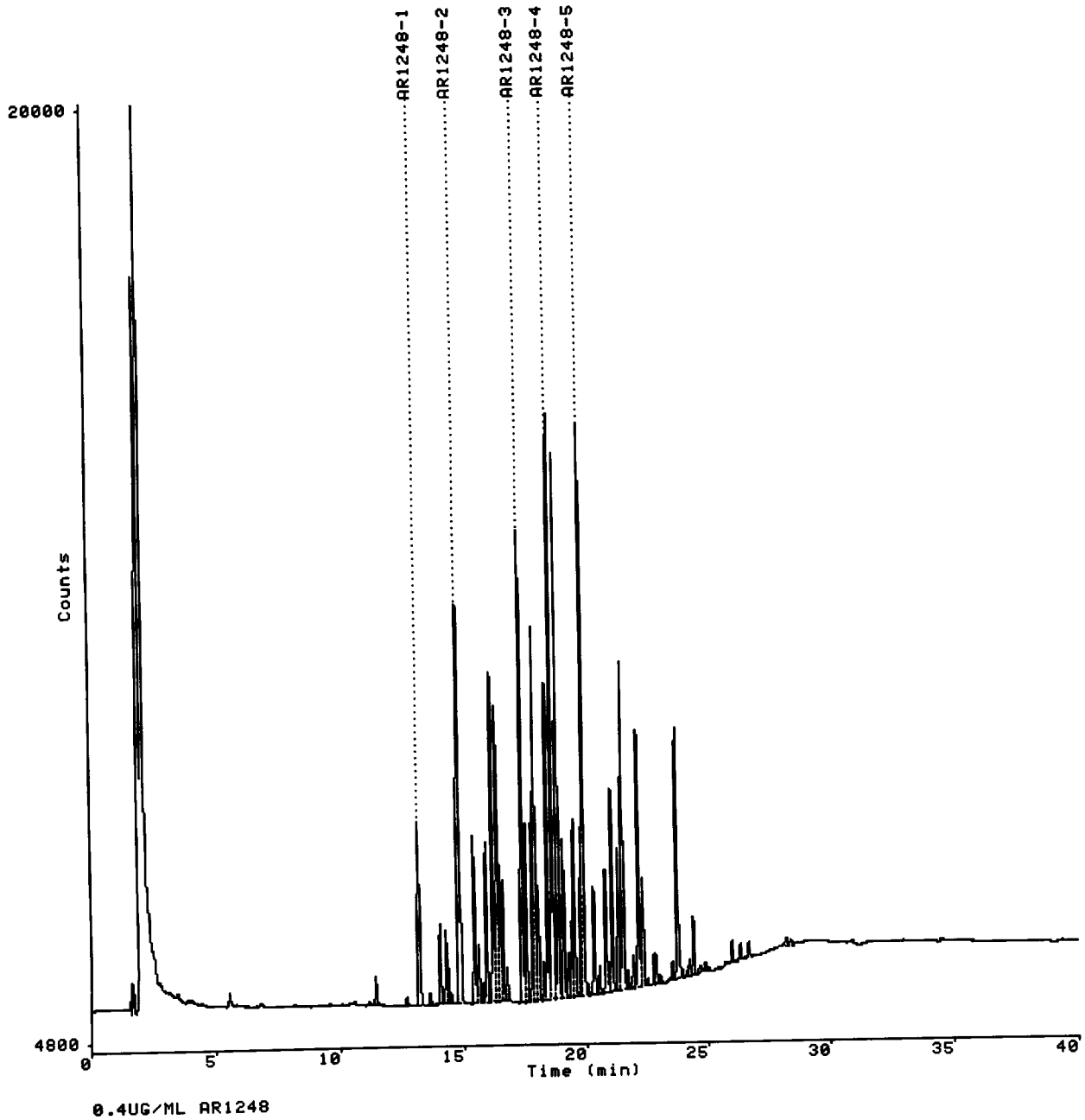
Peak Name	R.T.(min)	UG/G	Peak Area	BL	PEAK NO.
	13.65		1556	BB	1
	19.40		2965	BE	2
	20.25		4844	BB	3
	22.48		827	BB	4
	23.05		507	BV	5
	24.34		1469	BB	6
	24.68		3916	BB	7
	25.67		14124	BB	8
	28.12		9182	BB	9
	28.65		3605	BB	10
	32.89		1027	BB	11
	34.50		3430	BB	12

Average result...-0.00150 UG/G

Run Number..... 14 End of Report.

Run Number..... -1
Sample Name..... 0.4UG/ML AR1248
Run Date..... 6-MAY-1997 09:54:15
Raw File..... 11_0505_015
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1248
Datafile: 11_0505_015

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 6-MAY-1997 09:54:15

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.45		1889	BB	1
	12.70		511	BB	2
AR1248-1	13.19	0.395	16080	BB	3
	13.64		888	BB	4
	14.06		5746	BV	5
	14.29		5490	VV	6
	14.37		2083	VV	7
	14.51		744	VB	8
AR1248-2	14.84	0.384	45829	BB	9
	15.44		12897	BV	10
	15.63		4291	VV	11
	15.81		1366	VV	12
	15.94		11557	VV	13
	16.20		24668	VV	14
	16.39		27910	VV	15
	16.50		9249	VV	16
	16.61		8563	VV	17
	16.78		2265	VB	18
AR1248-3	17.41	0.390	38016	BV	19
	17.57		13256	VE	20
	17.83		12655	VV	21
	17.93		27514	VV	22
	18.07		8373	VV	23
	18.30		2666	VV	24
	18.44		23356	VV	25
AR1248-4	18.65	0.384	48737	VV	26
	18.88		40206	VV	27
	19.10		12165	VV	28
	19.28		3204	VV	29
	19.41		5486	VV	30
	19.54		13801	VV	31
	19.81		8984	VV	32
AR1248-5	19.91	0.376	45231	VE	33
	20.06		748	EV	34
	20.33		8621	VV	35
	20.56		1875	VB	36
	20.81		10559	BE	37
	20.97		2070	EV	38
	21.08		14819	VV	39
	21.32		10318	VV	40
	21.51		26211	VE	41
	21.69		1506	EV	42
	21.94		2983	EV	43
	22.15		20429	VV	44
	22.33		9009	VE	45
	22.78		2196	BV	46
	22.86		2119	VV	47
	23.03		802	VB	48
	23.53		1586	BV	49
	23.73		20336	VE	50

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_015 Analysis Date: 6-MAY-1997 09:54:15

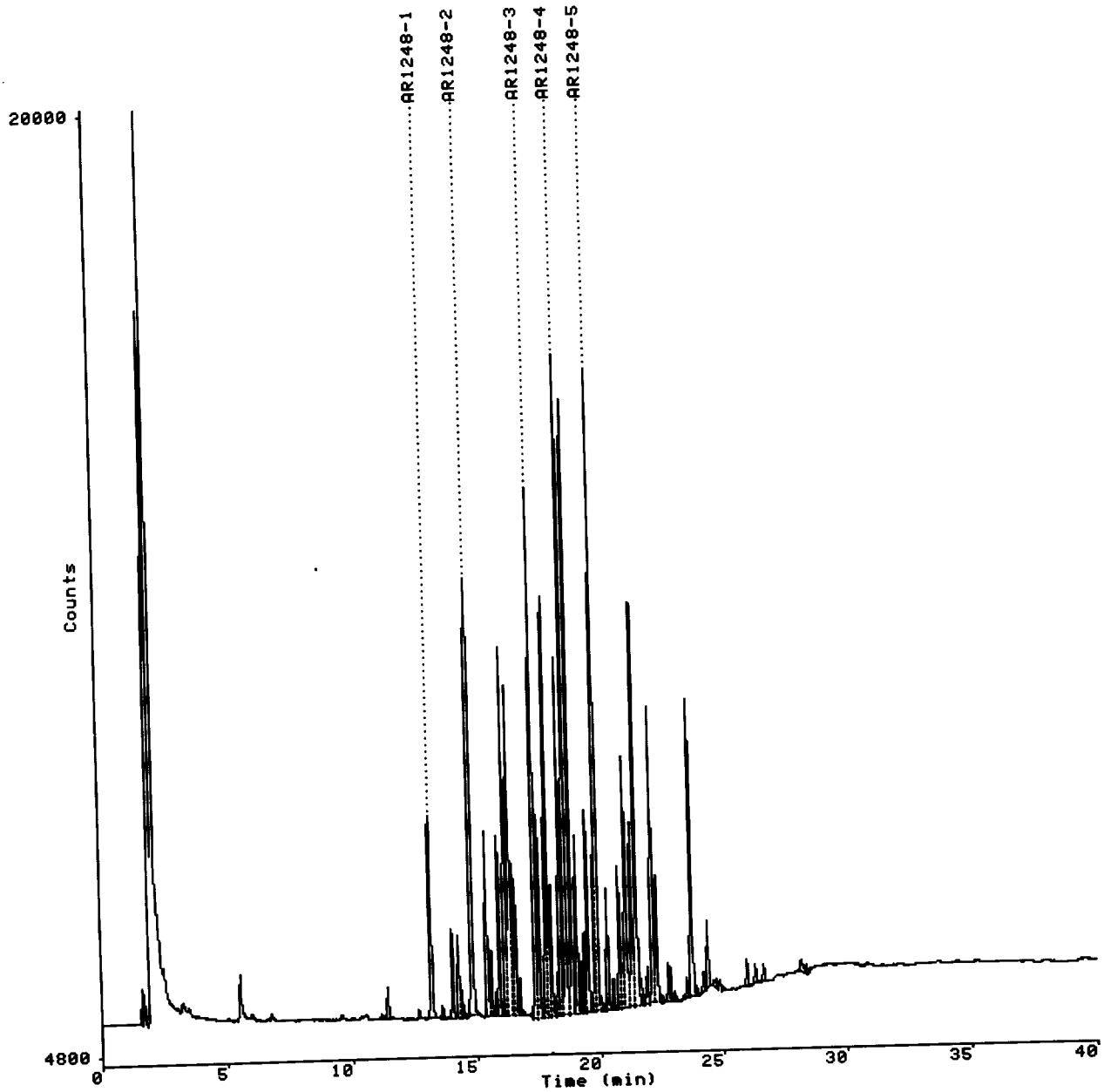
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.94		530	EB	51
	24.22		1221	VV	52
	24.38		4193	VB	53
	24.65		581	BB	54
	24.87		510	BB	55
	25.96		1591	BB	56
	26.30		1214	BB	57
	26.63		1204	VB	58
	28.17		866	BV	59
	28.37		599	VB	60

Average result...0.386 UG/ML

Run Number..... -1 End of Report.

Run Number..... 23
Sample Name..... 0.4UG/ML AR1248
Run Date..... 6-MAY-1997 16:04:52
Raw File..... 11_0505_023
Method Name..... 11_AR1248_0505
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



0.4UG/ML AR1248

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1248
Datafile: 11_0505_023

Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Analysis Date: 6-MAY-1997 16:04:52

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	11.43		2168	VB	1
	12.68		564	BB	2
AR1248-1	13.17	0.432	17526	BB	3
	13.62		954	BB	4
	14.03		6168	BV	5
	14.27		6020	VV	6
	14.35		2357	VV	7
	14.48		869	VB	8
AR1248-2	14.82	0.425	50601	BB	9
	15.42		14146	BV	10
	15.60		4788	VV	11
	15.78		1634	VV	12
	15.92		12904	VV	13
	16.18		27067	VV	14
	16.37		30877	VV	15
	16.48		10365	VV	16
	16.59		9662	VV	17
	16.76		2733	VE	18
AR1248-3	17.39	0.433	42063	BV	19
	17.54		15085	VE	20
	17.69		569	EV	21
	17.80		14330	VV	22
	17.91		30614	VV	23
	18.04		9787	VV	24
	18.27		3213	VV	25
	18.42		26118	VV	26
AR1248-4	18.63	0.430	54403	VV	27
	18.85		44987	VV	28
	19.07		13748	VV	29
	19.25		3730	VV	30
	19.39		5760	VV	31
	19.51		15585	VV	32
	19.79		10056	VV	33
AR1248-5	19.89	0.422	50639	VE	34
	20.04		934	EV	35
	20.30		9689	VB	36
	20.54		2051	BB	37
	20.79		11531	BV	38
	20.95		3693	VV	39
	21.05		22883	VV	40
	21.30		15932	VV	41
	21.49		35956	VE	42
	21.66		2142	EV	43
	21.92		3031	VV	44
	22.13		23179	VV	45
	22.31		10386	VE	46
	22.48		550	EB	47
	22.75		2618	BV	48
	22.84		2476	VV	49
	23.01		854	VB	50

Sample ID: 0.4UG/ML AR1248 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0505_023 Analysis Date: 6-MAY-1997 16:04:52

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.50		1542	VB	51
	23.70		23324	BE	52
	23.92		618	EB	53
	24.20		1977	BV	54
	24.36		4836	VB	55
	24.62		620	BV	56
	24.72		625	VV	57
	24.84		587	VB	58
	25.93		1941	BB	59
	26.27		1578	BE	60
	26.61		1487	VB	61
	28.14		1331	BV	62
	28.34		694	VB	63

Average result...0.429 UG/ML

Run Number..... 23 End of Report.

Project No.
Book No. 1166 TITLE

ECOLOGY & ENVIRONMENT, INC
ANALYTICAL SERVICES CENTER
GAS CHROMATOGRAPHY LAB
INSTRUMENT RUNLOG

Notebook # 1166 Page# 70

Analytical Method: 8081
Instrument ID: V3400 #4
Operator: [illegible] Initials: [illegible] Date: 5/7/00

GC Temperature Information

Initial Oven Temp: 150 C
Initial Oven Hold: 1 Min
Oven Temp. Ramp: 5 C/Min
Final Oven Temp: 280 C
Final Oven Hold: 11 Min
Injector Temp: 200 C
Detector Temp: 300 C
Injection Vol: 2.0 uL
Detector A,B : ECD, ECD
Range: 10
Attn : 8

FLOW(He) @ PSI 8 mL/Min

Column Information

Column 1 : RTX-5 Channel 10
5%-Diphenyl - 95% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 1.0 uM

Column 2 : RTX-35 Channel-11
35%-Diphenyl - 65% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 0.50 uM

Test Performed: PCB
Method Number: 8081
Date: 5/7/00
Work Performed By: [illegible]

Job #860 Channel 10 Primary

1660 Curve for QC Reprepps

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
	HEXANE	1	10_0507_001		150315	[illegible]
	0.1UG/ML [redacted] 126	2	10_0507_002		445-160-1	
	0.2UG/[redacted]	3	10_0507_003		445-160-2	
	0.4UG/[redacted]	4	10_0507_004		445-160-3	
	0.5UG/[redacted] 126	5	10_0507_005		445-160-4	
	1.0UG/[redacted] 126	6	10_0507_006		445-160-5	
900.904	SLCS1164-154-1 2X	7	10_0507_007		Hg Acid	
	SLCS1164-154-2 2X	8	10_0507_008			
	SBK1164-154-3 1X	9	10_0507_009			
	65372 1X	10	10_0507_010			
	65373 1X	11	10_0507_011			
	65374 1X	12	10_0507_012			
	HEXANE	13	10_0507_013		150315	
	HEXANE	14	10_0507_014			
	0.4UG/ML AR1660	15	10_0507_015		445-160-3	
900.860	65112 3250 10X	16	10_0507_016		Hg Acid	
	65112 3260 10X	17	10_0507_017			
900.973	65778 1X	18	10_0507_018			

To Page No.

Witnessed & Understood by me,	Date	Invented by	Date	
[illegible]	5/9/00	Recorded by		611

Project No.
Book No. 1166

TITLE

Test Performed: PCB

Method Number: 8081

GC PARAMETER REF: 1166-70

Date: 5/8/87

Work Performed By: [illegible]

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
9700,928	65592 1X	19	10_0507_019		Hg/Acid	CR
9700,904	65372 10000X	20	10_0507_020			
	65373 10000X	21	10_0507_021			
	65374 20000X	22	10_0507_022			
	0.4UG/ML AR1254	23	10_0507_023		445-160-9	
	0.4UG/ML AR1660	24	10_0507_024		445-160-3	
9700,904	65372 5000X	25	10_0507_025		Hg/Acid	
	65373 2000X	26	10_0507_026			
	65374 20000X	27	10_0507_027			
9700,928	65592 1X SURR CHK	28	10_0507_028			
	HEXANE	29	10_0507_029		K50315	
	0.4UG/ML AR1660	30	10_0507_030		445-160-3	

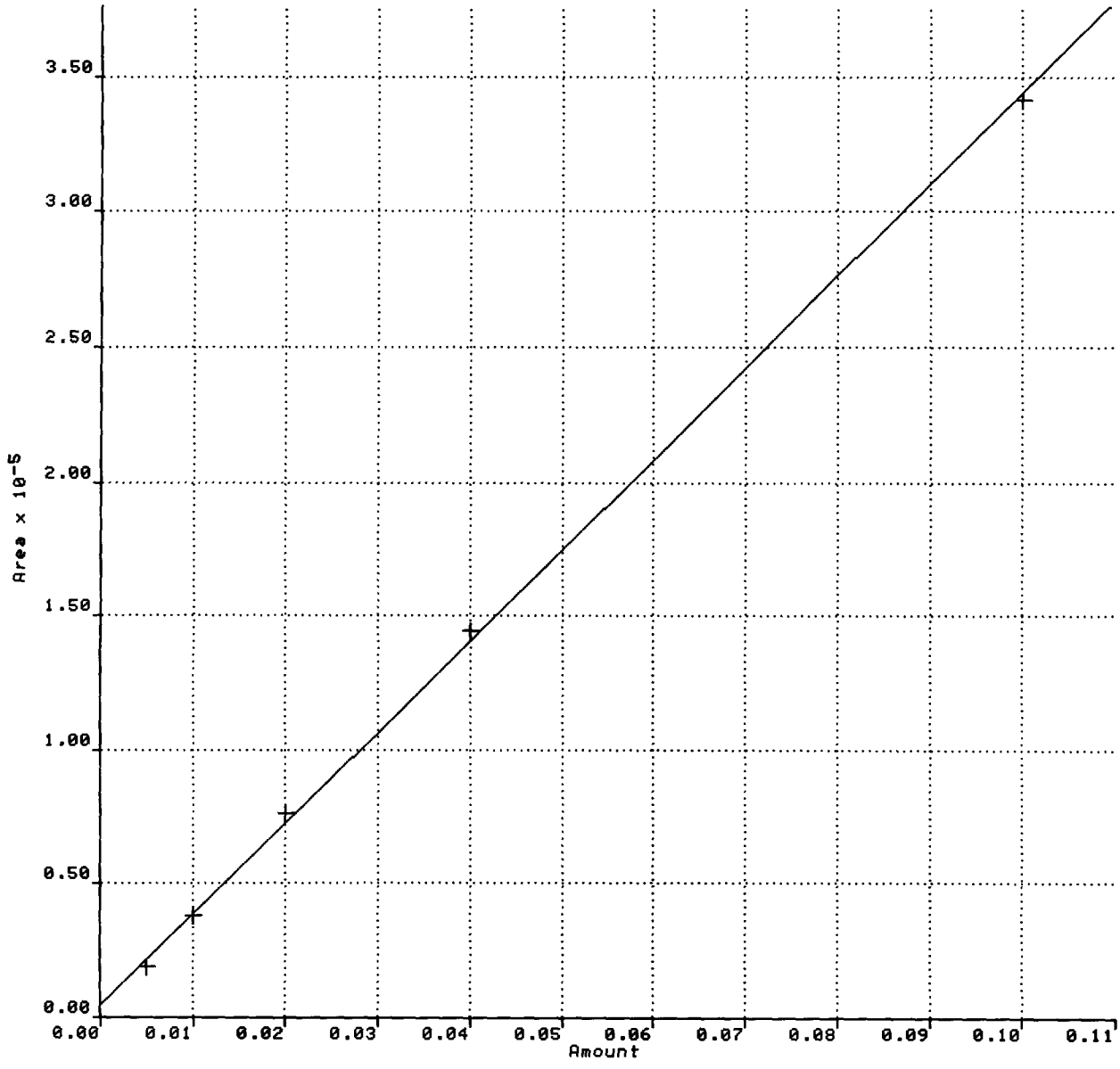
CR 5/9/87

To Page No.

Witnessed & Understood by me.	Date	Invented by	Date	
[illegible]	5/8/87	Recorded by		612

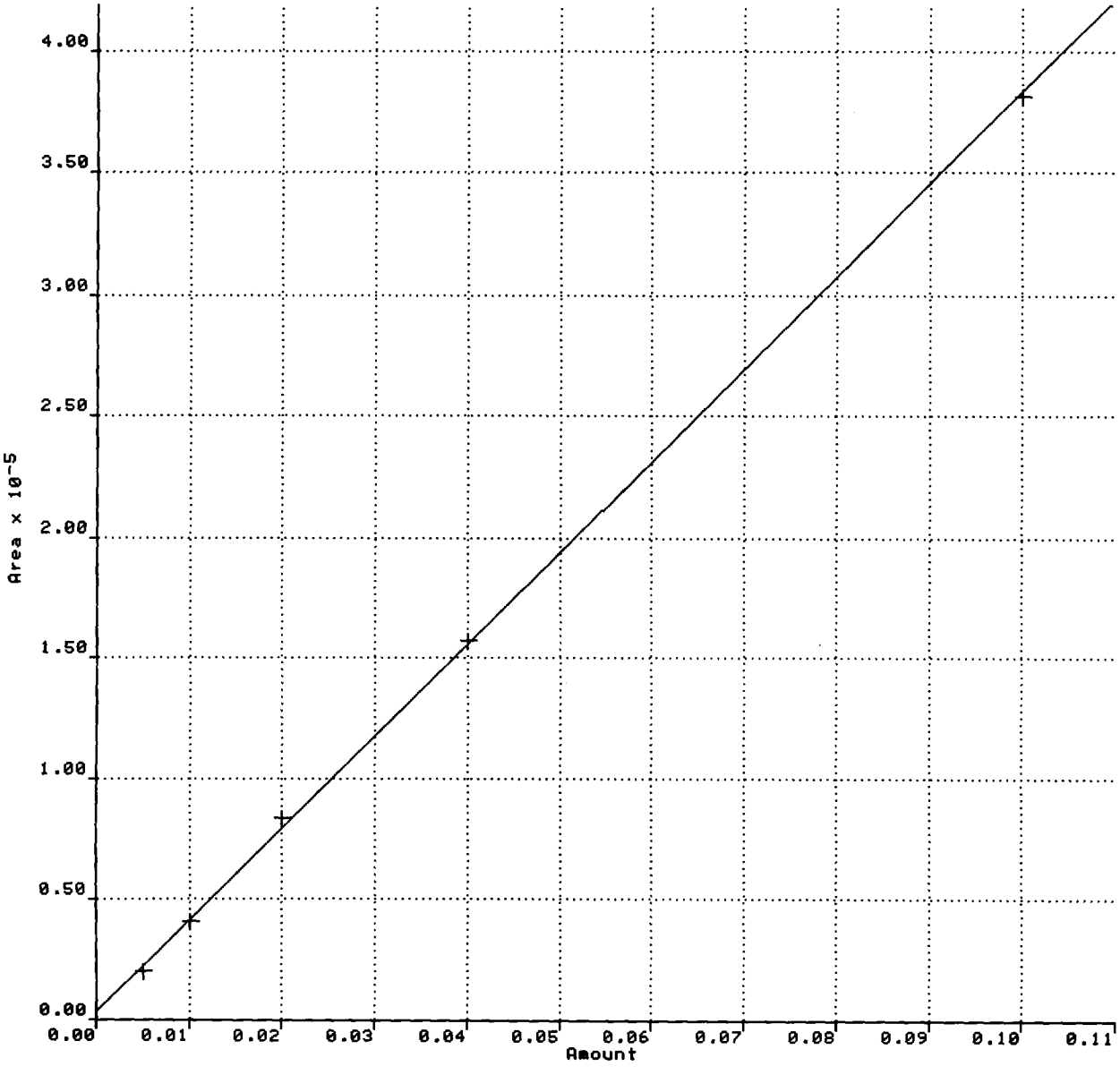
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: TCMX
Date: 8-MAY-1997 11:20:15.56
Linear fit, Origin Treament....Use.
K0: 4.1781E+03 K1: 3.4003E+06
Coeff. of determination: 0.9994

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	19390	5.0000E-03	
0.20 AR1016/1260	38065	1.0000E-02	
0.40 AR1016/1260	76476	2.0000E-02	
0.50 AR1016/1260	144435	4.0000E-02	
1.0 AR1016/1260	341748	0.10000	



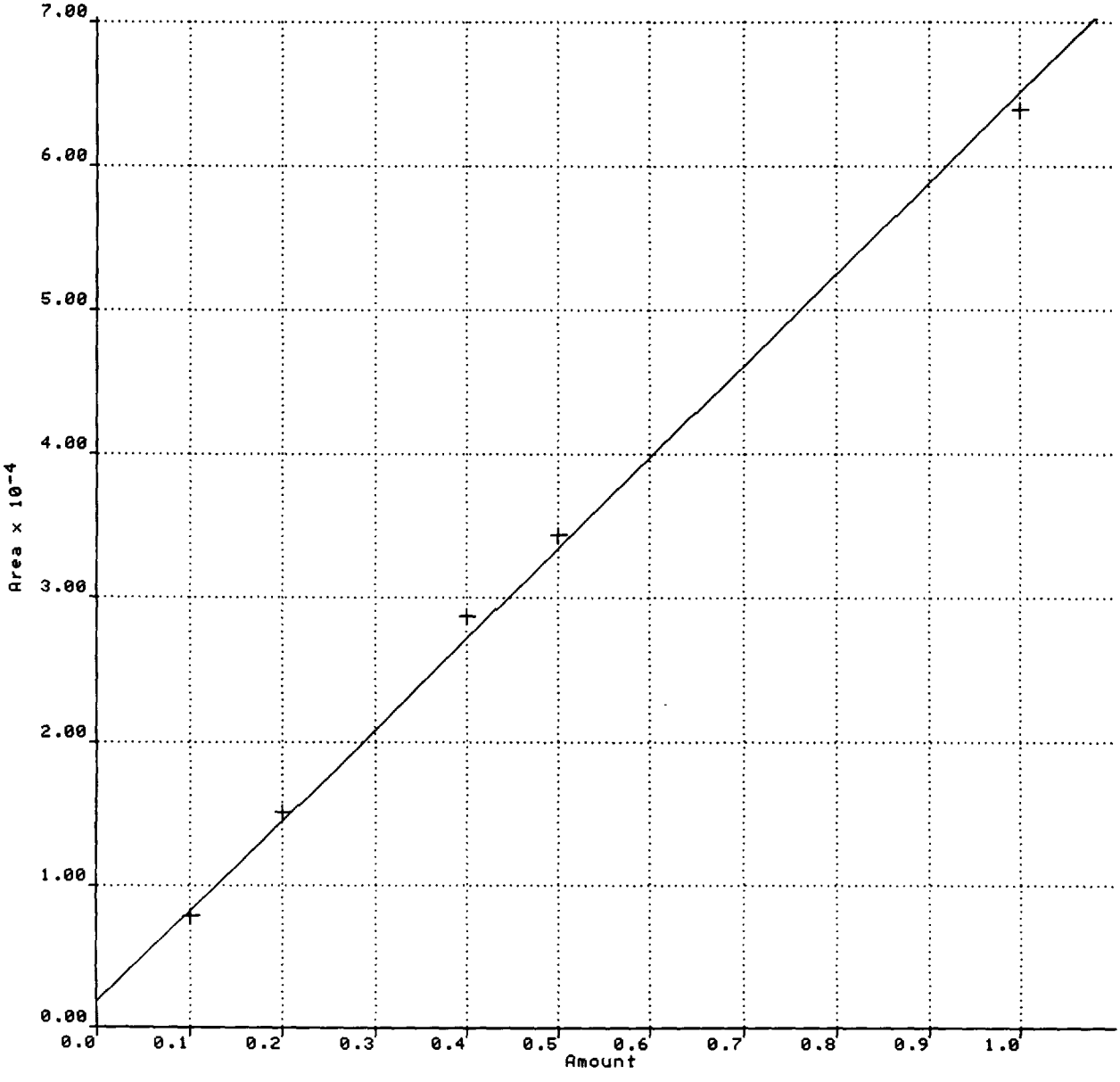
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: DCB
Date: 8-MAY-1997 11:20:23.10
Linear fit, Origin Treament....Use.
K0: 3.2812E+03 K1: 3.7958E+06
Coeff. of determination: 0.9997

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	20889	5.0000E-03	
0.20 AR1016/1260	41076	1.0000E-02	
0.40 AR1016/1260	83566	2.0000E-02	
0.50 AR1016/1260	157175	4.0000E-02	
1.0 AR1016/1260	381251	0.10000	



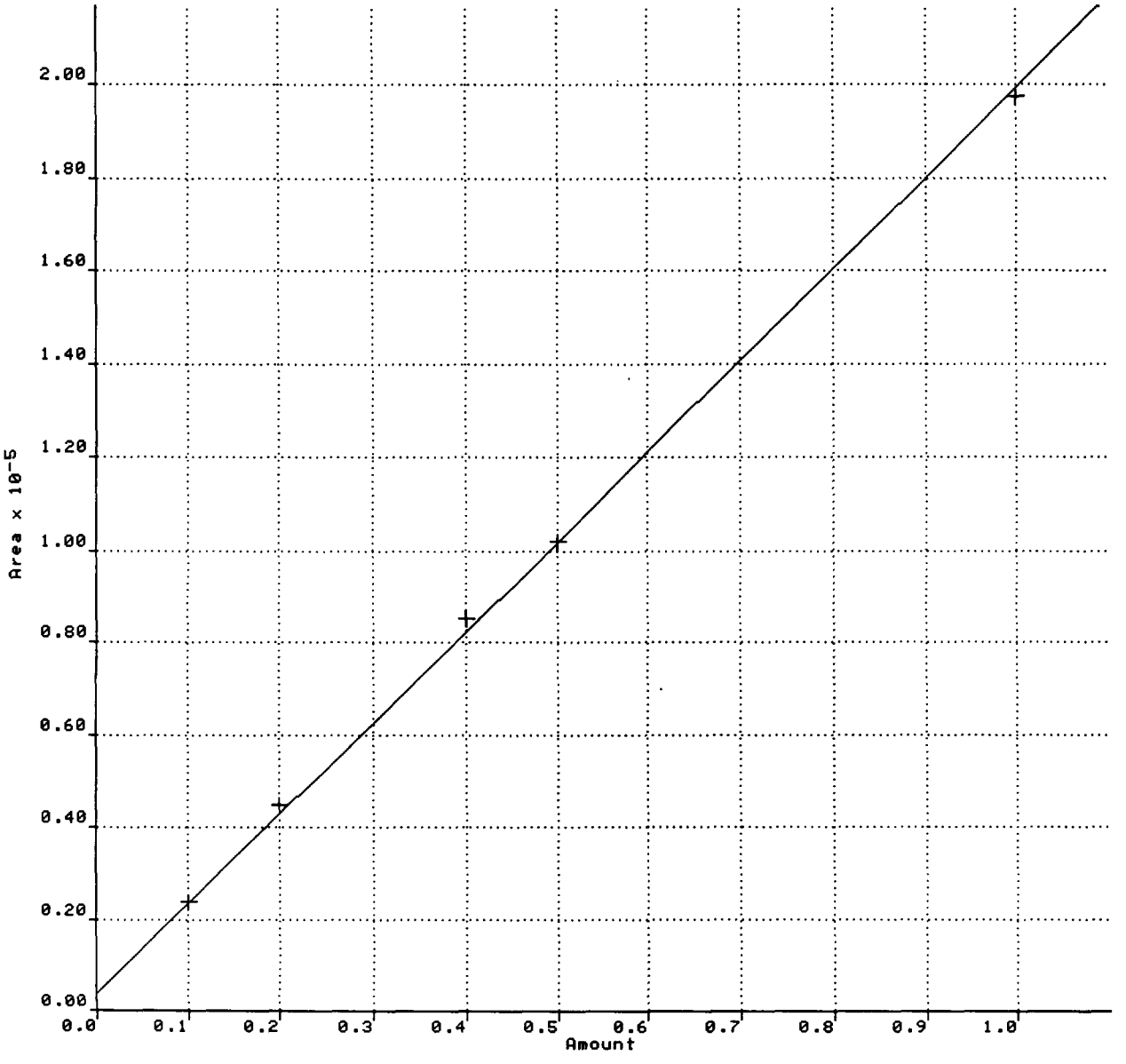
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1016-1
Date: 8-MAY-1997 11:20:15.84
Linear fit, Origin Treament....Use.
K0: 1.7421E+03 K1: 6.3366E+04
Coeff. of determination: 0.9971

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	7785	0.10000	
0.20 AR1016/1260	15067	0.20000	
0.40 AR1016/1260	28758	0.40000	
0.50 AR1016/1260	34392	0.50000	
1.0 AR1016/1260	63856	1.0000	



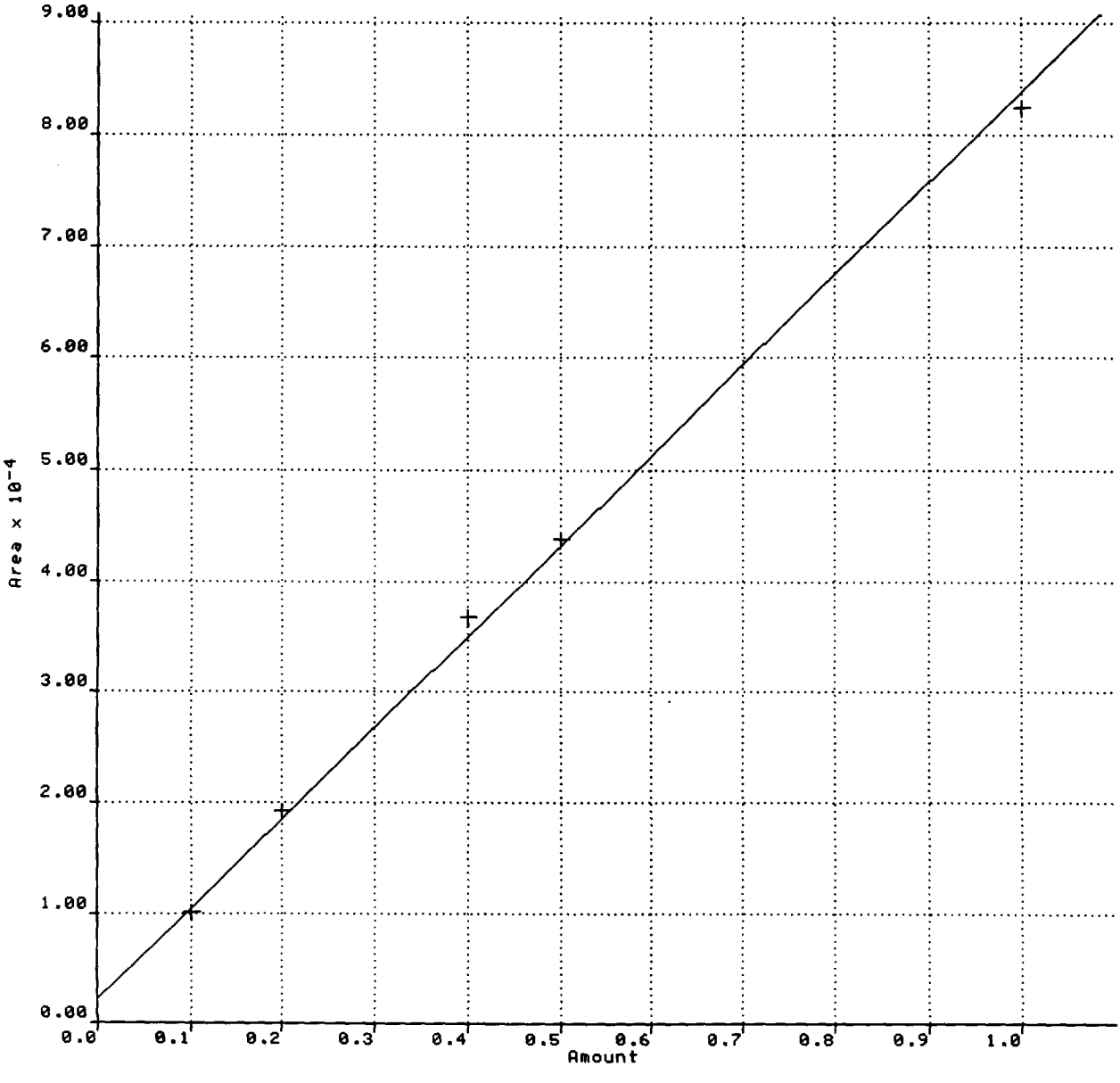
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1016-2
Date: 8-MAY-1997 11:20:16.24
Linear fit, Origin Treament....Use.
K0: 3.8526E+03 K1: 1.9560E+05
Coeff. of determination: 0.9991

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	23797	0.10000	
0.20 AR1016/1260	44691	0.20000	
0.40 AR1016/1260	85234	0.40000	
0.50 AR1016/1260	102151	0.50000	
1.0 AR1016/1260	197569	1.0000	



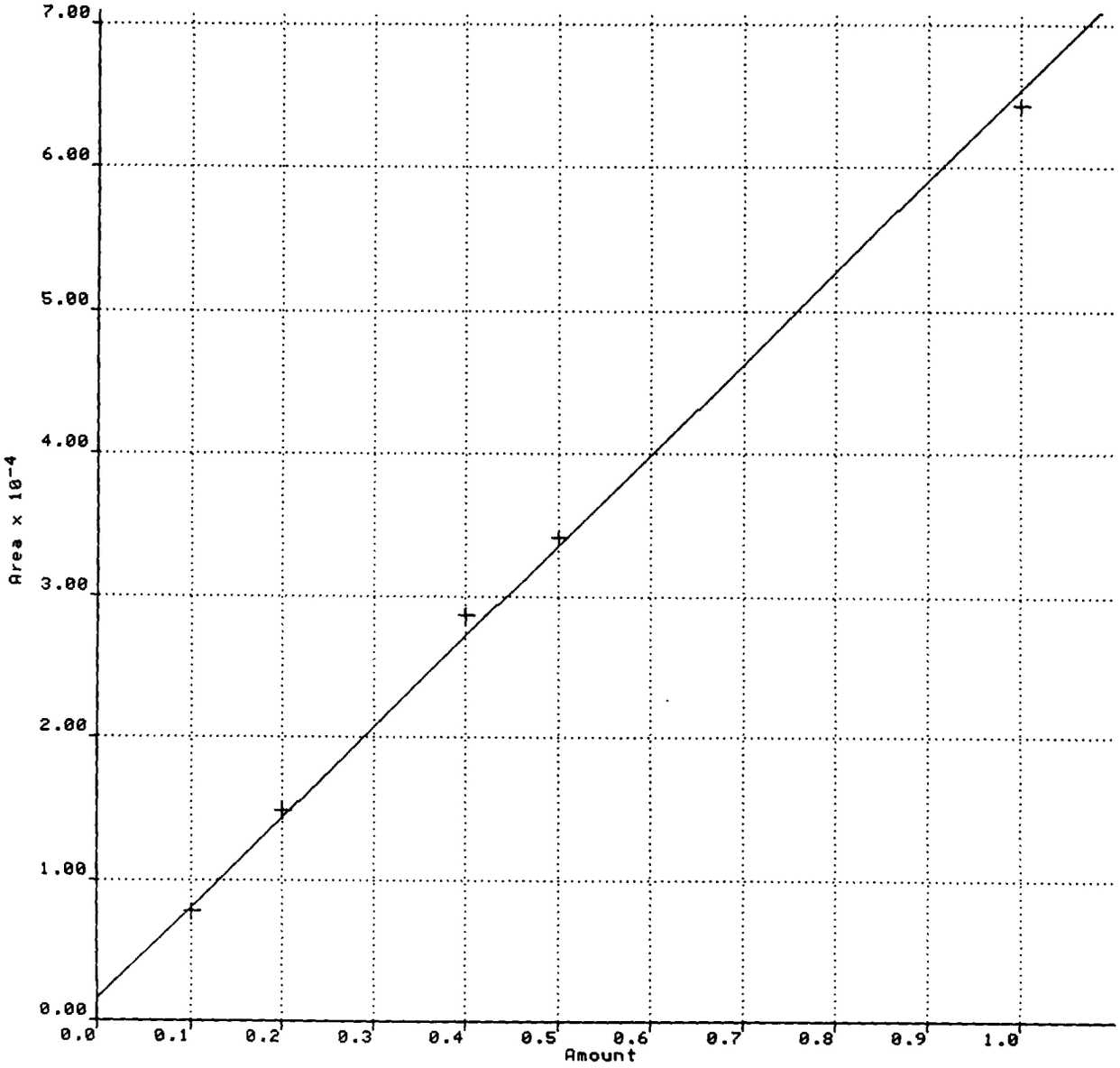
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1016-3
Date: 8-MAY-1997 11:20:16.73
Linear fit, Origin Treament....Use.
K0: 2.0828E+03 K1: 8.1739E+04
Coeff. of determination: 0.9980

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	10143	0.10000	
0.20 AR1016/1260	19230	0.20000	
0.40 AR1016/1260	36654	0.40000	
0.50 AR1016/1260	43793	0.50000	
1.0 AR1016/1260	82503	1.0000	



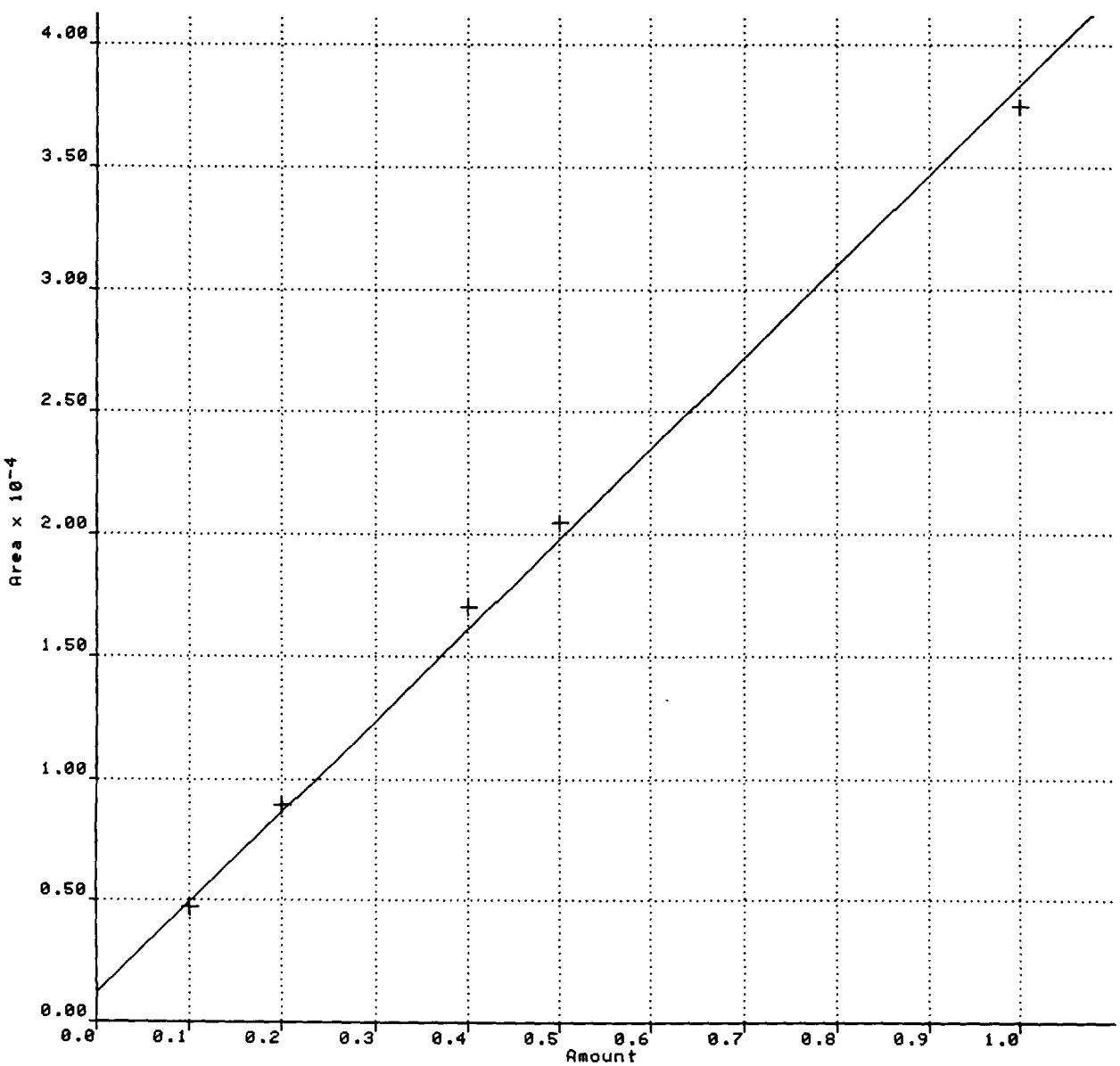
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1016-4
Date: 8-MAY-1997 11:20:17.25
Linear fit, Origin Treament....Use.
K0: 1.5402E+03 K1: 6.3862E+04
Coeff. of determination: 0.9979

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	7734	0.10000	
0.20 AR1016/1260	14846	0.20000	
0.40 AR1016/1260	28620	0.40000	
0.50 AR1016/1260	34202	0.50000	
1.0 AR1016/1260	64335	1.0000	



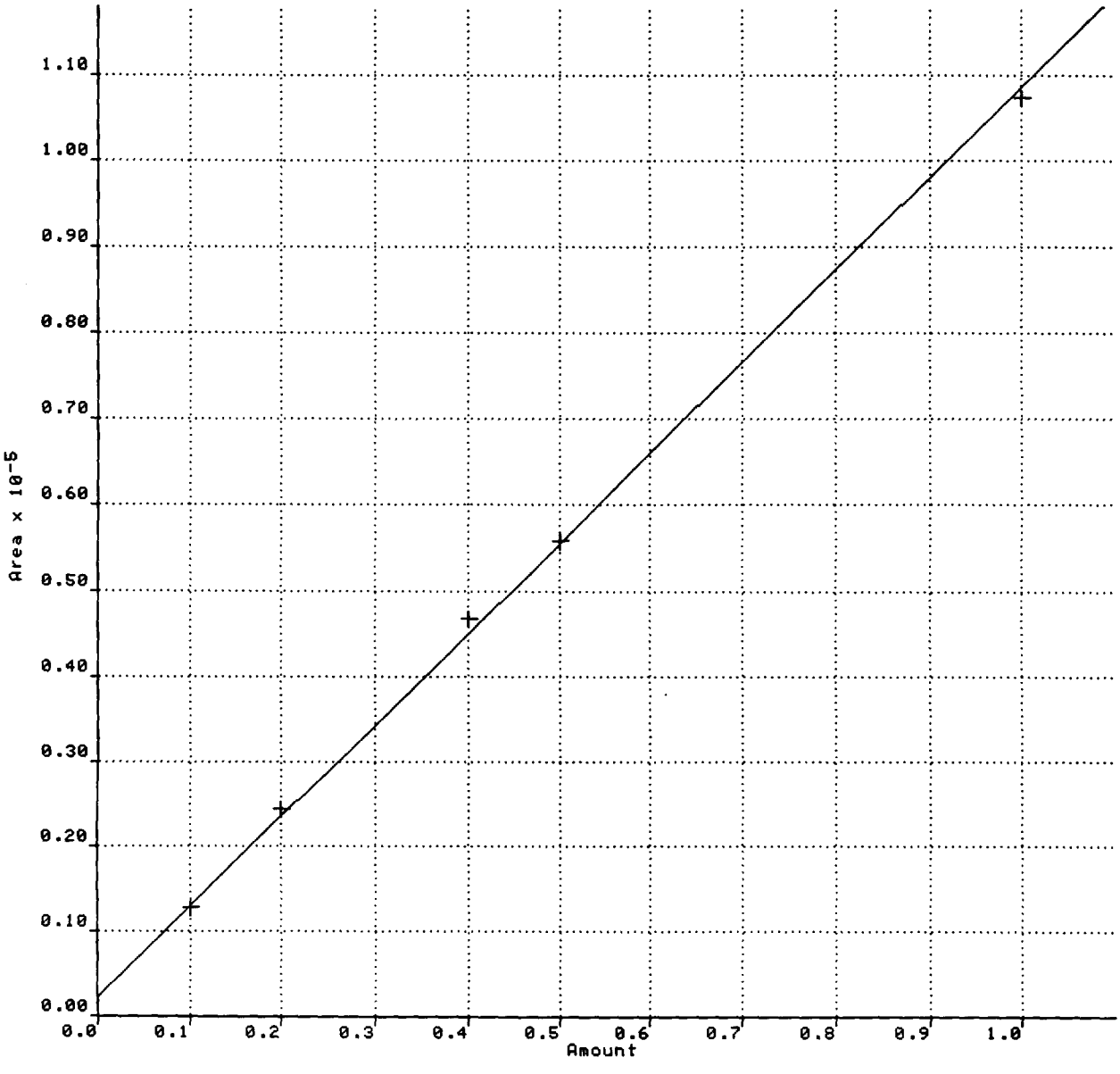
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1016-5
Date: 8-MAY-1997 11:20:18.15
Linear fit, Origin Treament....Use.
K0: 1.1619E+03 K1: 3.7163E+04
Coeff. of determination: 0.9965

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	4773	0.10000	
0.20 AR1016/1260	8953	0.20000	
0.40 AR1016/1260	17018	0.40000	
0.50 AR1016/1260	20494	0.50000	
1.0 AR1016/1260	37492	1.0000	



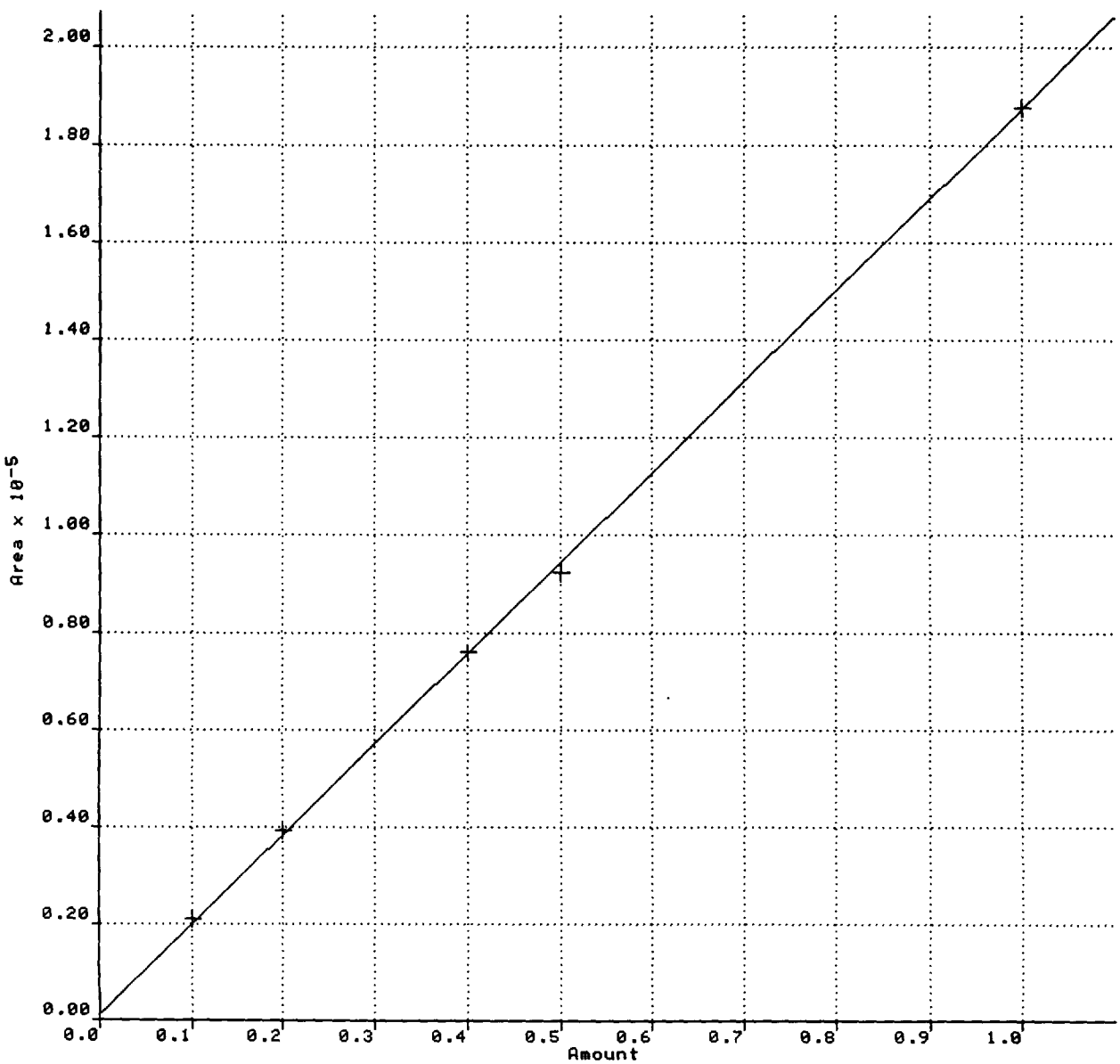
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1260-1
Date: 8-MAY-1997 11:20:19.13
Linear fit, Origin Treament....Use.
K0: 2.1428E+03 K1: 1.0649E+05
Coeff. of determination: 0.9988

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	12689	0.10000	
0.20 AR1016/1260	24374	0.20000	
0.40 AR1016/1260	46805	0.40000	
0.50 AR1016/1260	55888	0.50000	
1.0 AR1016/1260	107382	1.0000	



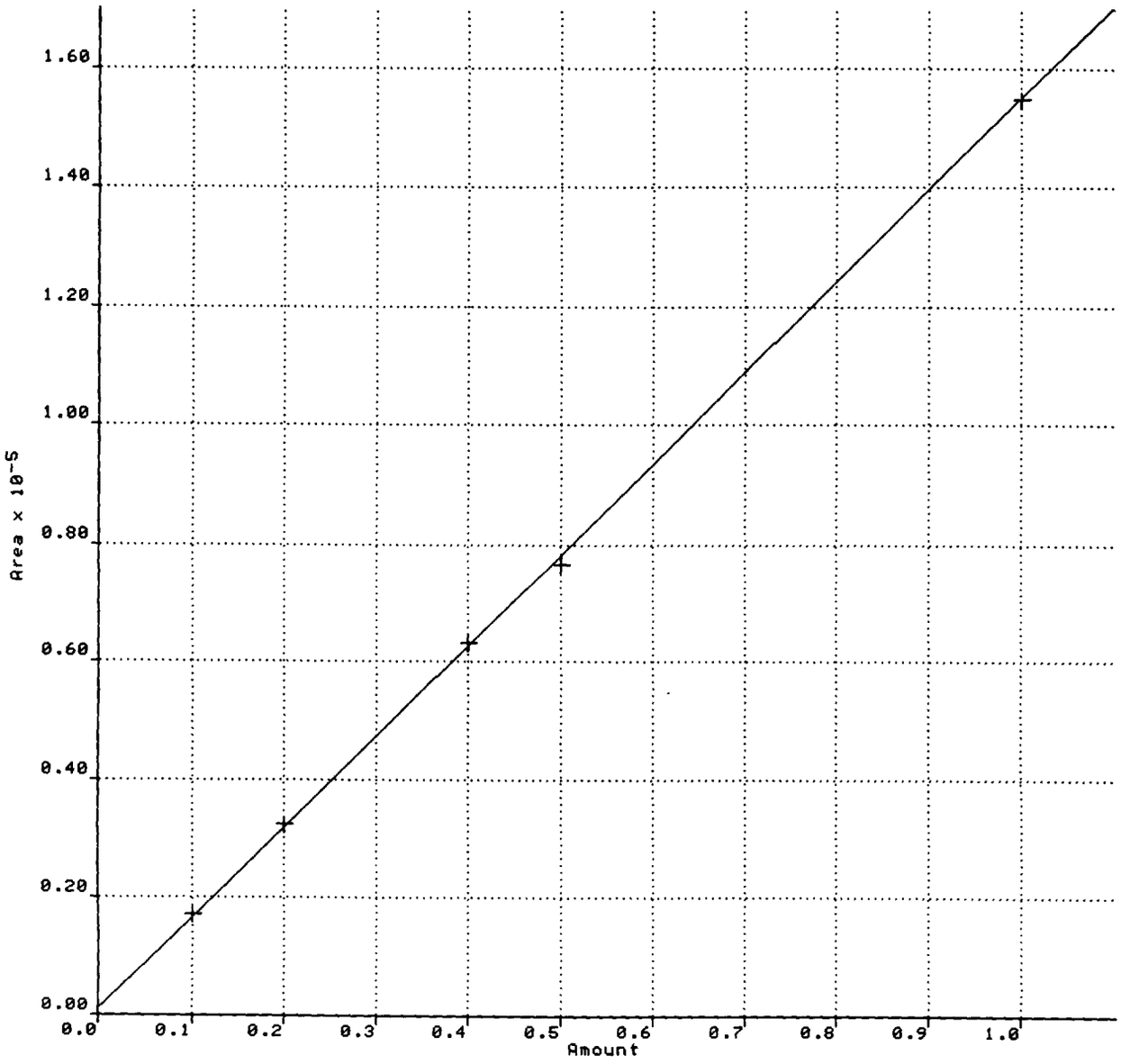
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1260-2
Date: 8-MAY-1997 11:20:20.06
Linear fit, Origin Treament....Use.
K0: 1.1785E+03 K1: 1.8621E+05
Coeff. of determination: 0.9996

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	21145	0.10000	
0.20 AR1016/1260	39207	0.20000	
0.40 AR1016/1260	76098	0.40000	
0.50 AR1016/1260	92431	0.50000	
1.0 AR1016/1260	187842	1.0000	



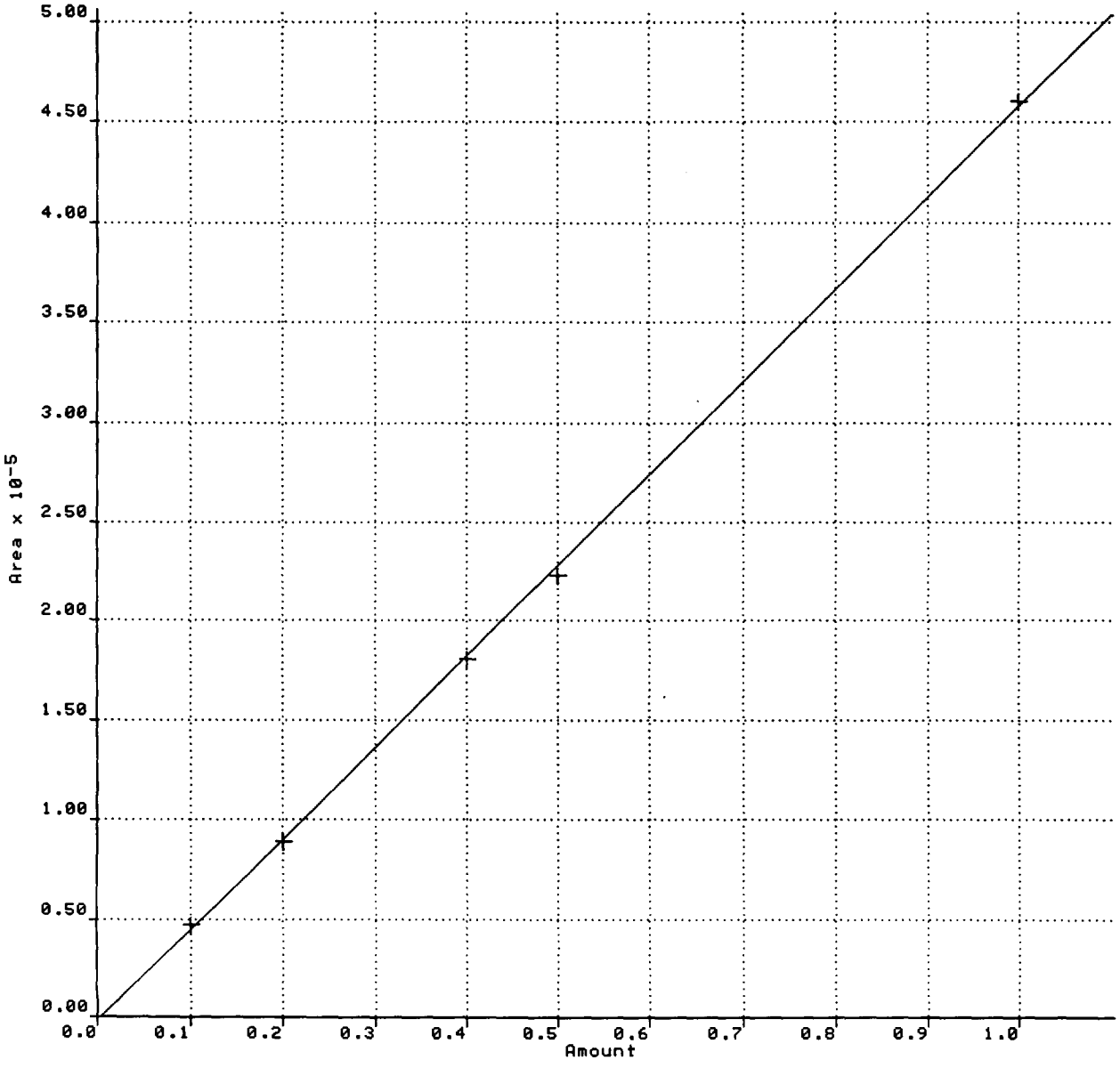
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1260-3
Date: 8-MAY-1997 11:20:21.25
Linear fit, Origin Treament....Use.
K0: 1.0469E+03 K1: 1.5382E+05
Coeff. of determination: 0.9998

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	17119	0.10000	
0.20 AR1016/1260	32413	0.20000	
0.40 AR1016/1260	63368	0.40000	
0.50 AR1016/1260	76892	0.50000	
1.0 AR1016/1260	154891	1.0000	



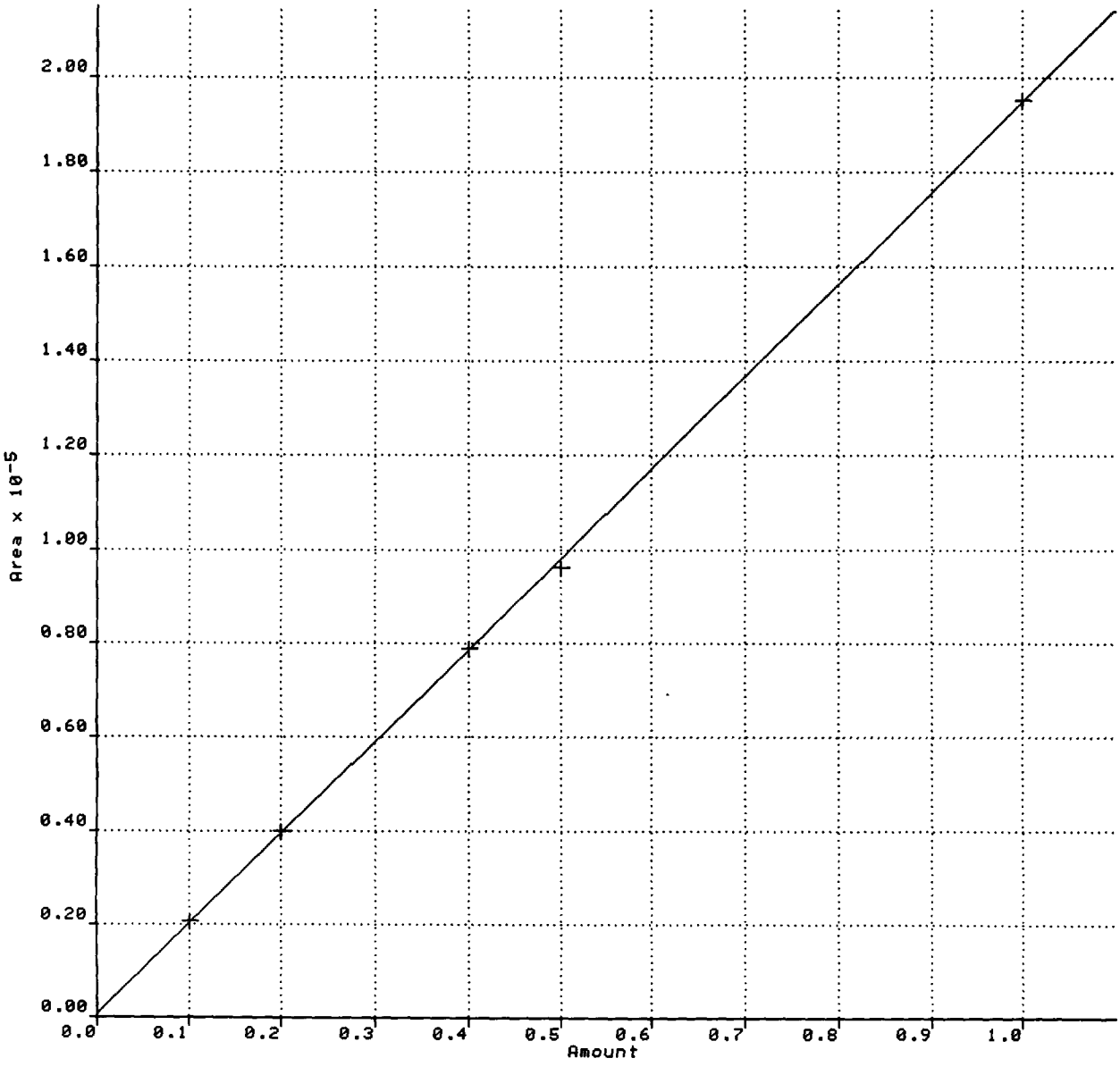
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1260-4
Date: 8-MAY-1997 11:20:22.00
Linear fit, Origin Treament....Use.
K0: -1.6673E+03 K1: 4.5931E+05
Coeff. of determination: 0.9997

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	46797	0.10000	
0.20 AR1016/1260	88976	0.20000	
0.40 AR1016/1260	180877	0.40000	
0.50 AR1016/1260	223462	0.50000	
1.0 AR1016/1260	460371	1.0000	



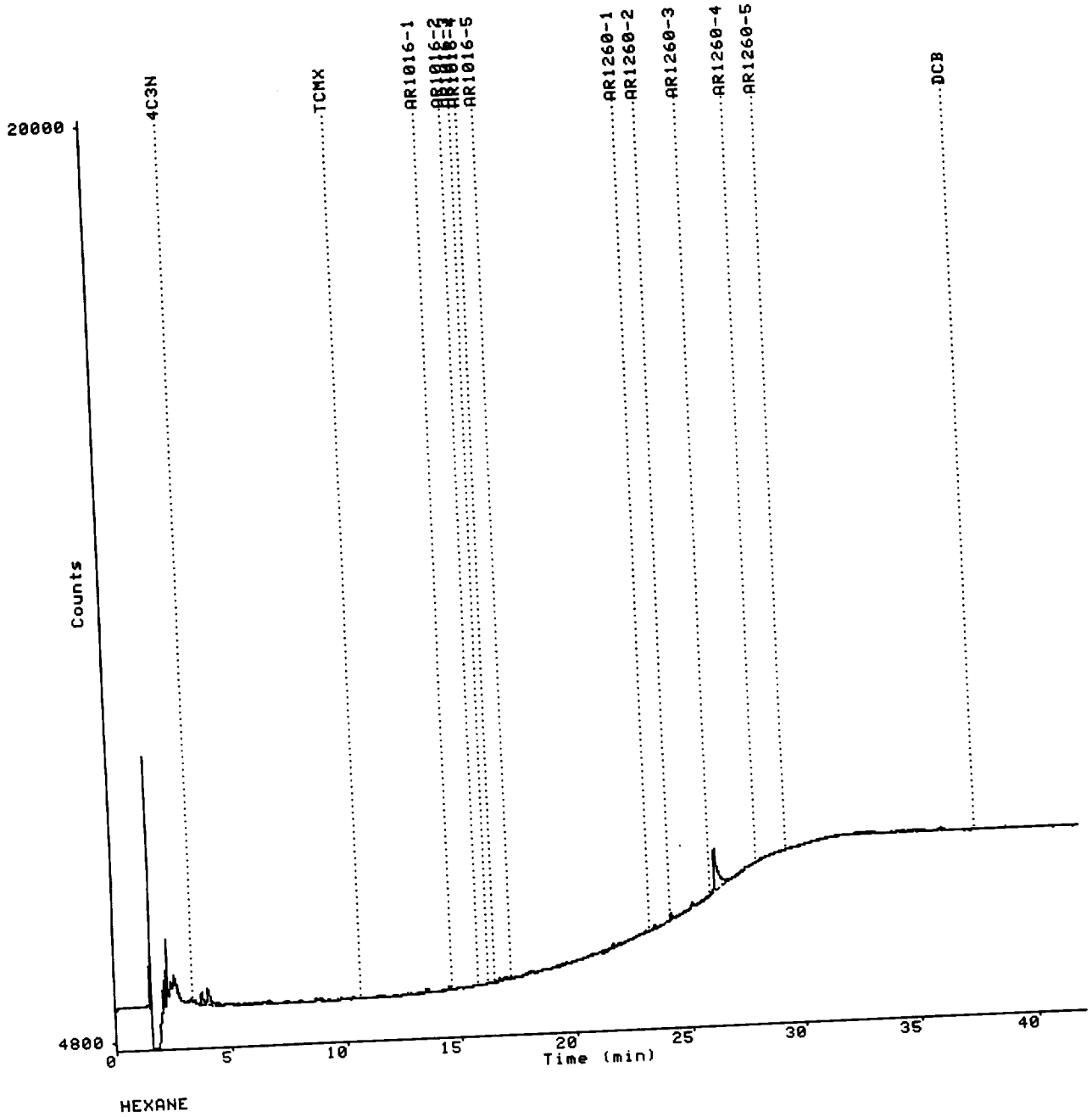
Method: DKB0:[NEARY]10_AR1660_0507.MET;10
Component: AR1260-5
Date: 8-MAY-1997 11:20:22.50
Linear fit, Origin Treament....Use.
K0: 7.0599E+02 K1: 1.9416E+05
Coeff. of determination: 0.9998

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	20879	0.10000	
0.20 AR1016/1260	40099	0.20000	
0.40 AR1016/1260	78927	0.40000	
0.50 AR1016/1260	96266	0.50000	
1.0 AR1016/1260	195212	1.0000	



Run Number..... 1
Sample Name..... HEXANE
Run Date..... 7-MAY-1997 17:07:31
Raw File..... 10_0507_001
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_001 Analysis Date: 7-MAY-1997 17:07:31

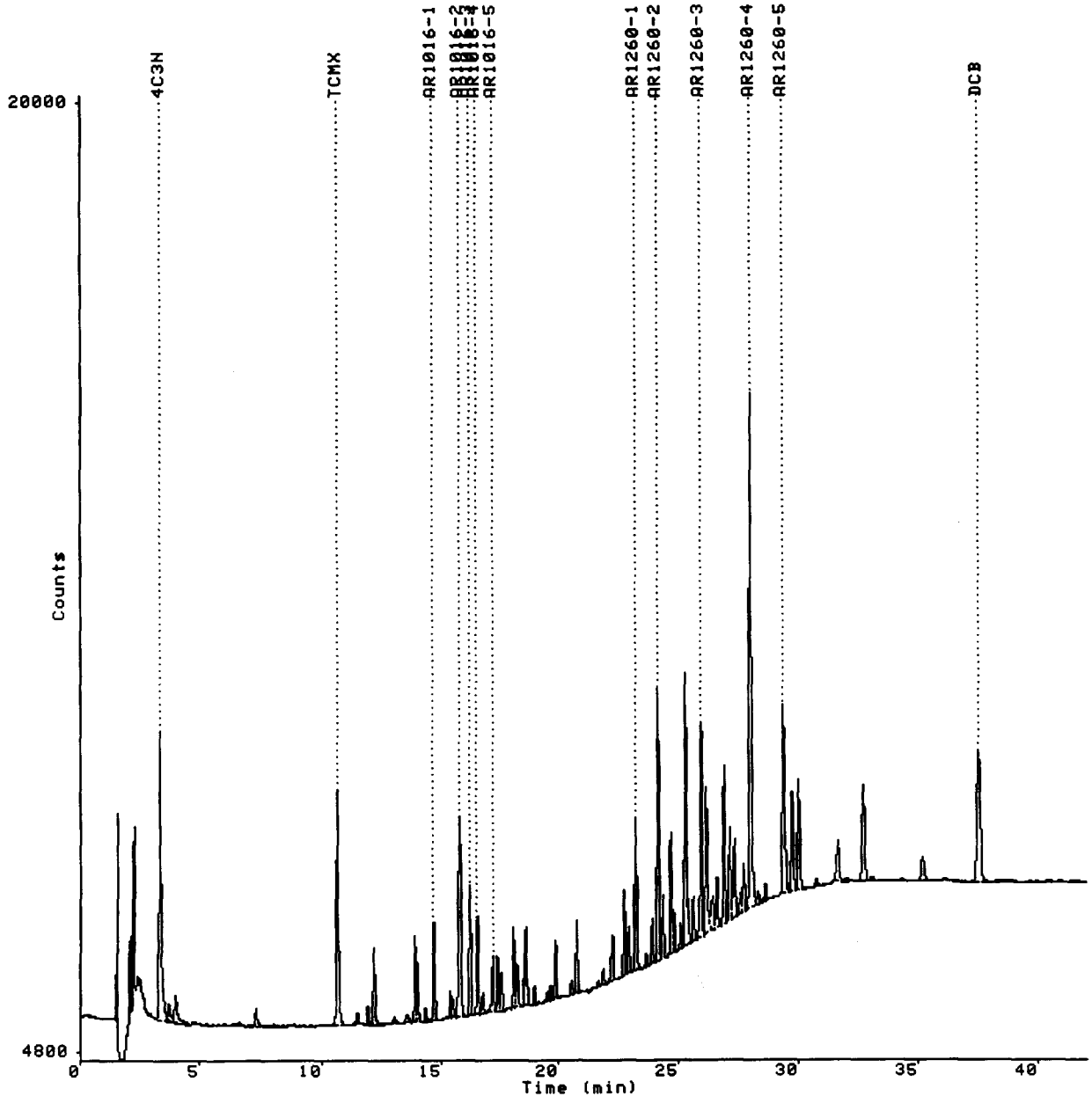
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	3.74		1264	BV	1
	4.01		2644	VE	2
	13.57		619	BB	3
	21.66		810	BV	4
	22.74		821	BB	5
AR1260-2	24.22	-0.00284	649	BB	6
	26.20		9226	BE	7
	29.25		3131	BB	8

Average result...0.00000 UG/ML

Run Number..... 1 End of Report.

Run Number..... 2
Sample Name..... 0.1UG/ML AR1016/1260
Run Date..... 7-MAY-1997 17:53:46
Raw File..... 10_0507_002
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



0.1UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_002 Analysis Date: 7-MAY-1997 17:53:46

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	3.33	0.0104	26311	BE	1
	3.72		1899	EV	2
	3.98		3908	EV	3
	7.30		1583	BB	4
TCMX	10.64	0.00447	19390	BB	5
	11.48		987	VB	6
	11.91		1403	BV	7
	12.16		6212	VB	8
	13.53		1162	BV	9
	13.88		6702	VV	10
	13.97		4156	VB	11
	14.32		1183	BB	12
AR1016-1	14.68	0.0954	7785	BB	13
	15.37		1887	BV	14
	15.49		1366	VV	15
AR1016-2	15.79	0.102	23797	VB	16
AR1016-3	16.20	0.0986	10143	BV	17
AR1016-4	16.53	0.0970	7734	VV	18
	16.75		1904	VB	19
AR1016-5	17.18	0.0972	4773	BV	20
	17.37		4135	VV	21
	17.53		3912	VB	22
	18.07		6318	BV	23
	18.22		3689	VB	24
	18.59		8132	BB	25
	18.94		1205	BB	26
	19.51		882	BV	27
	19.65		1097	VV	28
	19.85		4639	VB	29
	20.52		1165	BV	30
	20.74		5641	VB	31
	21.66		968	BV	32
	21.87		1286	VB	33
	22.27		4964	BB	34
	22.75		6521	BV	35
	22.94		3793	VB	36
AR1260-1	23.24	0.0990	12689	BB	37
	23.69		997	BB	38
	23.93		3454	BB	39
AR1260-2	24.17	0.107	21145	BV	40
	24.36		5076	VB	41
	24.70		9562	BV	42
	24.82		3033	VB	43
	25.11		2005	BV	44
	25.31		25804	VV	45
	25.63		3588	VB	46
AR1260-3	25.96	0.104	17119	BV	47
	26.17		13995	VE	48
	26.43		4373	EV	49
	26.61		4650	VV	50

Sample ID: 0.1UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_002 Analysis Date: 7-MAY-1997 17:53:46

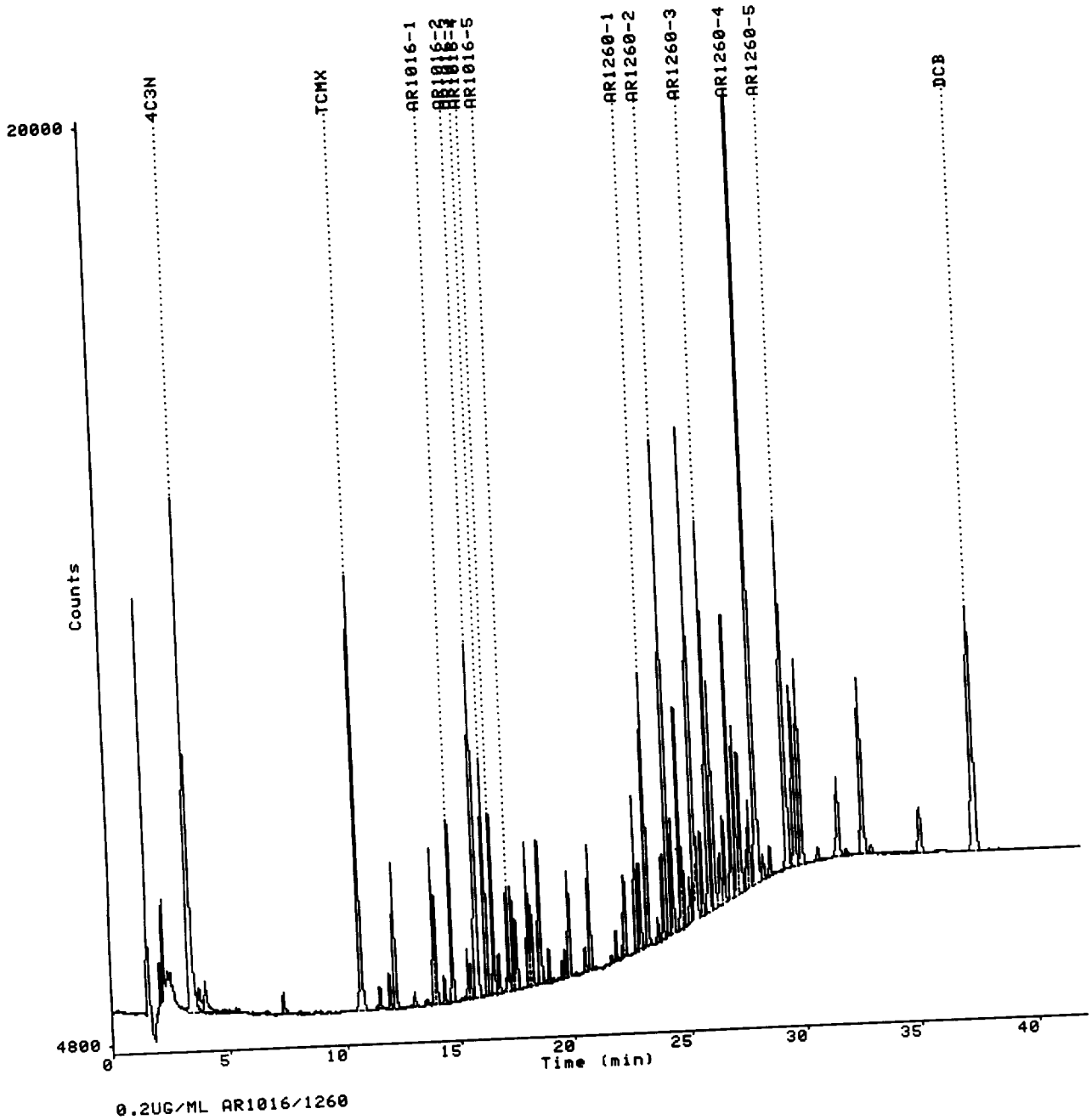
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	26.91		12950	VV	51
	27.14		7956	VV	52
	27.33		7776	VV	53
	27.58		2174	VV	54
	27.72		4300	VV	55
AR1260-4	27.99	0.106	46797	VE	56
	28.30		1474	EV	57
	28.60		1734	EB	58
AR1260-5	29.36	0.104	20879	BE	59
	29.73		9618	VV	60
	30.00		11337	VB	61
	30.73		754	BB	62
	31.63		5475	BE	63
	32.69		11129	BE	64
	33.05		508	EB	65
	35.18		3265	BB	66
DCB	37.54	0.00464	20889	BB	67

AR1016 average result...0.0980
AR1260 average result...0.104

Run Number..... 2 End of Report.

Run Number..... 3
Sample Name..... 0.2UG/ML AR1016/1260
Run Date..... 7-MAY-1997 18:40:03
Raw File..... 10_0507_003
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_003 Analysis Date: 7-MAY-1997 18:40:03

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	3.33	0.0210	51848	BE	1
	3.72		3179	EV	2
	3.98		4509	EV	3
	4.79		611	BV	4
	5.30		582	VB	5
	7.30		2015	BB	6
TCMX	10.63	0.00997	38065	VB	7
	11.47		1925	VB	8
	11.90		2784	BV	9
	12.14		11984	VB	10
	12.99		1317	VB	11
	13.52		1007	BV	12
	13.86		12790	VV	13
	13.96		8043	VB	14
	14.31		2348	BB	15
AR1016-1	14.67	0.210	15067	BB	16
	15.36		3768	BV	17
	15.48		2653	VV	18
AR1016-2	15.78	0.209	44691	VB	19
AR1016-3	16.19	0.210	19230	BV	20
AR1016-4	16.52	0.208	14846	VV	21
	16.74		3303	VB	22
AR1016-5	17.17	0.210	8953	BV	23
	17.36		8011	VV	24
	17.52		7580	VB	25
	18.05		11836	BV	26
	18.21		7249	VB	27
	18.58		15488	BB	28
	18.93		2612	BB	29
	19.50		1431	VV	30
	19.64		2148	VV	31
	19.84		8959	VE	32
	20.51		2162	BV	33
	20.73		9955	VE	34
	21.65		821	VV	35
	21.86		2471	VV	36
	22.19		2890	VV	37
	22.26		6757	VB	38
	22.74		12358	BV	39
	22.92		7549	VV	40
AR1260-1	23.22	0.209	24374	VB	41
	23.68		1985	BV	42
	23.92		6730	VV	43
AR1260-2	24.16	0.204	39207	VV	44
	24.35		9433	VB	45
	24.69		18091	BV	46
	24.81		5686	VB	47
	25.09		3586	BB	48
	25.30		37499	BB	49
	25.62		6882	BB	50

Sample ID: 0.2UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_003 Analysis Date: 7-MAY-1997 18:40:03

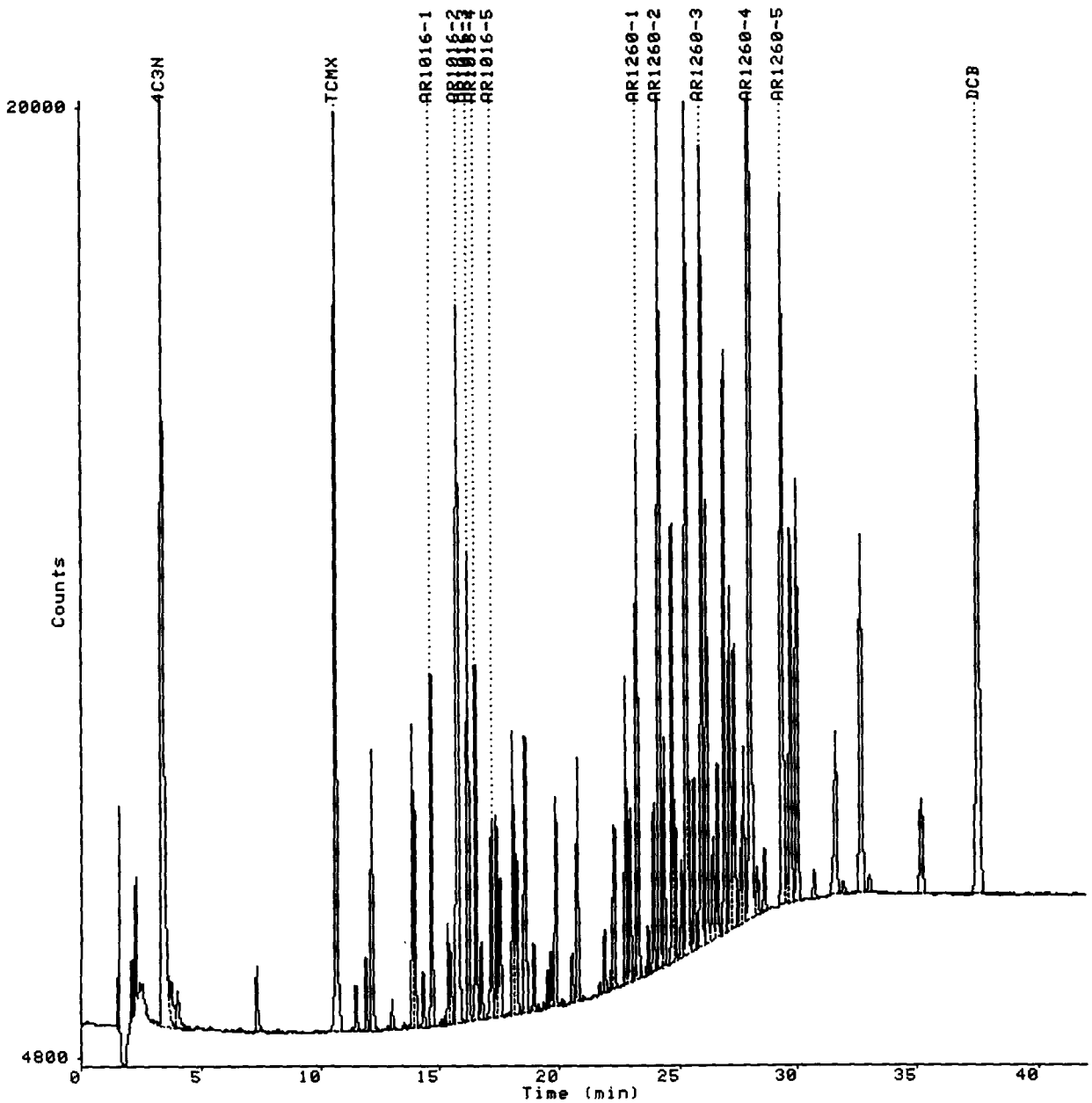
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
AR1260-3	25.95	0.204	32413	BV	51
	26.15		20056	VV	52
	26.42		6224	VV	53
	26.60		7430	VV	54
	26.90		23850	VV	55
	27.12		14759	VV	56
	27.32		14356	VV	57
	27.57		3582	VV	58
	27.70		7852	VV	59
AR1260-4	27.98	0.197	88976	VE	60
	28.28		2366	EV	61
	28.59		3013	EB	62
AR1260-5	29.35	0.203	40099	BV	63
	29.57		997	VV	64
	29.72		18652	VV	65
	29.99		22010	VB	66
	30.71		1435	BB	67
	31.62		10692	BE	68
	31.96		754	EB	69
	32.68		21817	BE	70
	33.04		1075	EB	71
	35.17		6607	BB	72
DCB	37.53	0.00996	41076	BB	73

AR1016 average result...0.209
AR1260 average result...0.203

Run Number..... 3 End of Report.

Run Number..... 4
Sample Name..... 0.4UG/ML AR1016/1260
Run Date..... 7-MAY-1997 19:26:19
Raw File..... 10_0507_004
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



0.4UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_004 Analysis Date: 7-MAY-1997 19:26:19

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	3.33	0.0503	122068	BE	1
	3.72		6256	EV	2
	3.98		5197	EV	3
	7.30		5588	BB	4
TCMX	10.64	0.0213	76476	VB	5
	11.48		4181	VB	6
	11.90		5586	BV	7
	12.15		22983	VB	8
	13.00		2410	VB	9
	13.53		952	BV	10
	13.87		24151	VV	11
	13.96		15738	VB	12
	14.32		4763	BB	13
AR1016-1	14.68	0.426	28758	BE	14
	15.09		607	EV	15
	15.19		692	EV	16
	15.36		7492	VV	17
	15.48		5341	VV	18
AR1016-2	15.78	0.416	85234	VV	19
AR1016-3	16.20	0.423	36654	VV	20
AR1016-4	16.52	0.424	28620	VV	21
	16.75		6166	VB	22
AR1016-5	17.17	0.427	17018	VV	23
	17.36		15396	VV	24
	17.52		14536	VV	25
	18.06		22776	VV	26
	18.22		14116	VV	27
	18.58		29697	VV	28
	18.94		5215	VV	29
	19.11		530	VB	30
	19.51		2830	VV	31
	19.65		4253	VV	32
	19.84		17124	VE	33
	20.12		657	EB	34
	20.51		4170	BV	35
	20.74		19229	VE	36
	21.65		1043	VV	37
	21.86		4664	VV	38
	22.20		5495	VV	39
	22.27		13144	VB	40
	22.75		23676	BV	41
	22.93		14540	VV	42
AR1260-1	23.23	0.419	46805	VB	43
	23.69		3875	BB	44
	23.92		13104	BB	45
AR1260-2	24.16	0.402	76098	BV	46
	24.36		18266	VB	47
	24.70		34888	BV	48
	24.81		11136	VV	49
	25.10		7698	VV	50

Sample ID: 0.4UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_004 Analysis Date: 7-MAY-1997 19:26:19

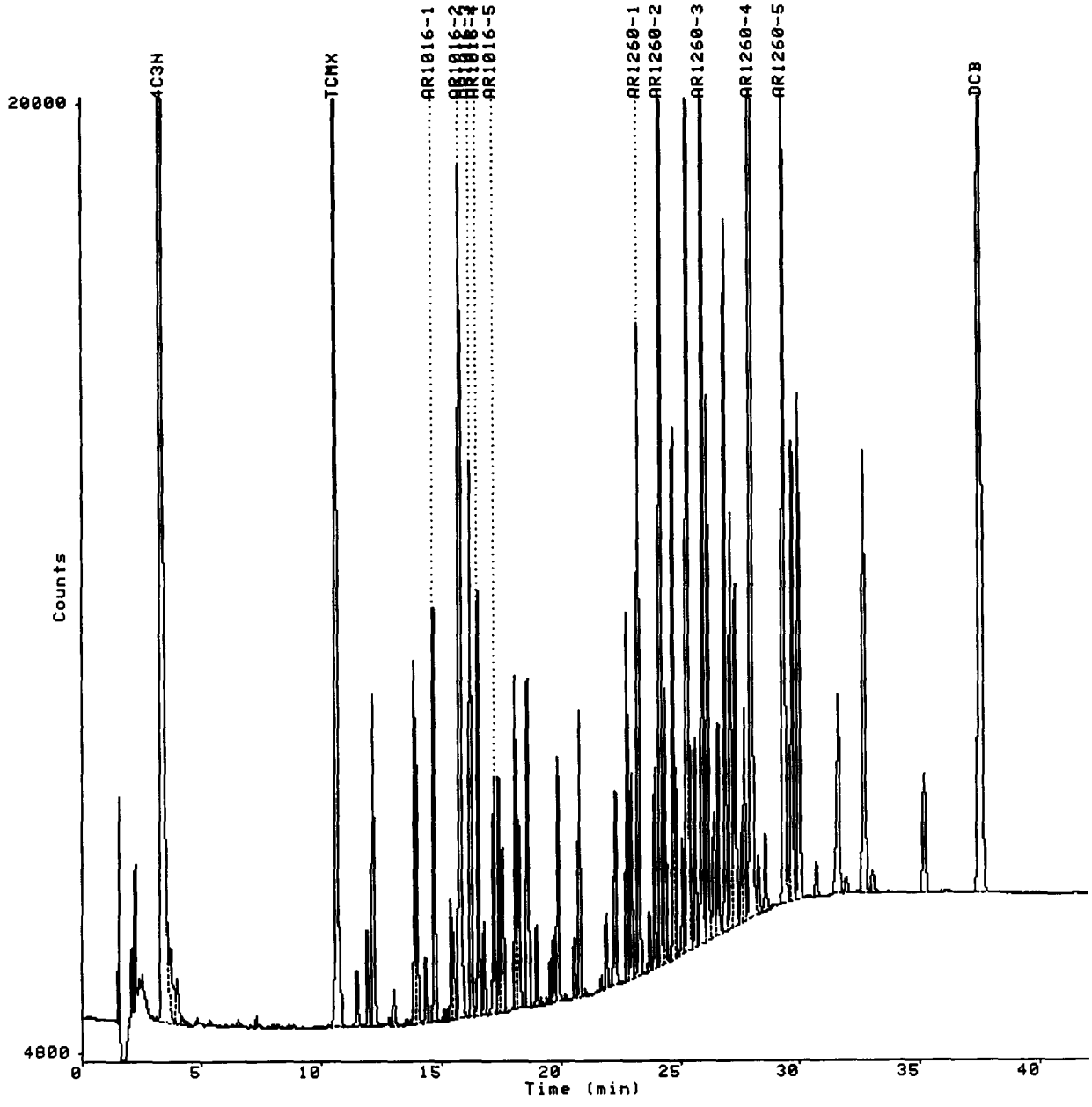
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	25.30		88754	VE	51
	25.41		7522	EV	52
	25.62		13973	VV	53
AR1260-3	25.95	0.405	63368	VV	54
	26.16		36005	VV	55
	26.43		10909	VV	56
	26.61		14049	VV	57
	26.90		45623	VV	58
	27.13		28171	VV	59
	27.32		27733	VV	60
	27.58		6557	VV	61
	27.71		14837	VV	62
AR1260-4	27.98	0.397	180877	VE	63
	28.29		4305	EV	64
	28.60		5675	EB	65
AR1260-5	29.36	0.403	78927	BV	66
	29.57		1952	VV	67
	29.72		36610	VV	68
	29.99		43426	VB	69
	30.72		2998	BB	70
	31.62		21248	BV	71
	31.96		1508	VB	72
	32.69		43231	BE	73
	33.04		2234	EB	74
	35.17		13226	BB	75
DCB	37.53	0.0212	83566	BB	76

AR1016 average result...0.423
AR1260 average result...0.405

Run Number..... 4 End of Report.

Run Number..... 5
Sample Name..... 0.5UG/ML AR1016/1260
Run Date..... 7-MAY-1997 20:12:35
Raw File..... 10_0507_005
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



0.5UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_005 Analysis Date: 7-MAY-1997 20:12:35

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	3.33	0.0980	236850	BE	1
	3.72		11571	EV	2
	3.98		5273	EV	3
	4.17		987	VV	4
	4.82		596	BB	5
	5.34		614	VB	6
	6.54		777	VB	7
	7.30		600	BB	8
TCMX	10.64	0.0412	144435	VE	9
	11.48		5327	BB	10
	11.90		7458	BV	11
	12.15		27442	VB	12
	13.00		2821	VB	13
	13.53		872	BV	14
	13.87		28536	VV	15
	13.97		19087	VV	16
	14.32		5895	VB	17
AR1016-1	14.68	0.515	34392	BE	18
	15.10		1181	EV	19
	15.20		885	EV	20
	15.37		9002	VV	21
	15.49		6514	VV	22
AR1016-2	15.79	0.503	102151	VV	23
AR1016-3	16.20	0.510	43793	VV	24
AR1016-4	16.52	0.511	34202	VV	25
	16.75		7347	VV	26
AR1016-5	17.18	0.520	20494	VV	27
	17.37		18425	VV	28
	17.53		17469	VB	29
	18.06		26995	VV	30
	18.22		16529	VB	31
	18.59		35194	BB	32
	18.94		6137	BE	33
	19.11		640	EB	34
	19.35		507	BV	35
	19.51		3376	VV	36
	19.65		5059	VV	37
	19.84		20285	VB	38
	20.12		523	BB	39
	20.52		5050	BV	40
	20.74		22206	VE	41
	21.66		1261	VV	42
	21.87		5559	VB	43
	22.27		22267	BB	44
	22.75		28291	BV	45
	22.93		17334	VV	46
AR1260-1	23.23	0.505	55888	VB	47
	23.69		4752	BV	48
	23.93		15817	VV	49
AR1260-2	24.17	0.490	92431	VV	50

Sample ID: 0.5UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_005 Analysis Date: 7-MAY-1997 20:12:35

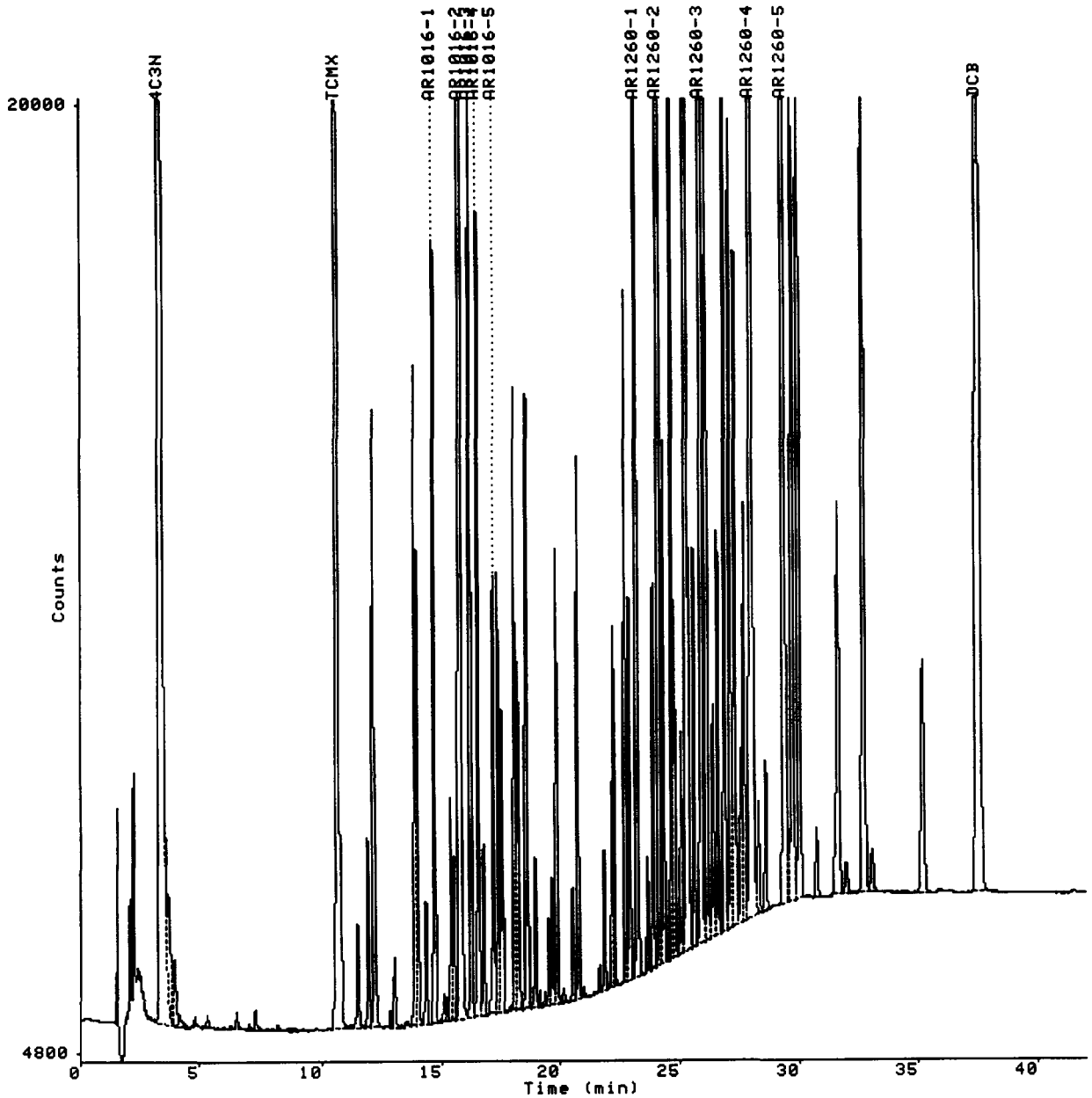
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	24.36		21900	VV	51
	24.70		41782	VV	52
	24.82		13288	VV	53
	25.10		9260	VV	54
	25.31		107734	VE	55
	25.42		9005	EV	56
	25.63		16968	VV	57
AR1260-3	25.95	0.493	76892	VV	58
	26.16		44726	VV	59
	26.43		13653	VV	60
	26.61		17288	VV	61
	26.91		55340	VV	62
	27.14		34201	VV	63
	27.33		33535	VV	64
	27.58		8072	VV	65
	27.71		18161	VV	66
AR1260-4	27.99	0.490	223462	VE	67
	28.29		5523	EV	68
	28.60		7739	EV	69
	28.92		592	VB	70
AR1260-5	29.36	0.492	96266	BE	71
	29.58		2041	EV	72
	29.72		44390	VV	73
	30.00		52543	VV	74
	30.72		3584	BB	75
	31.63		25893	BV	76
	31.96		1885	VB	77
	32.69		52379	BE	78
	33.05		2626	EB	79
	35.18		16506	BB	80
DCB	37.54	0.0405	157175	BB	81

AR1016 average result...0.512
AR1260 average result...0.494

Run Number..... 5 End of Report.

Run Number..... 6
Sample Name..... 1.0UG/ML AR1016/1260
Run Date..... 7-MAY-1997 20:58:53
Raw File..... 10_0507_006
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



1.0UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 1.0UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_006 Analysis Date: 7-MAY-1997 20:58:53

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	3.33	0.201	483935	BE	1
	3.72		17452	EV	2
	3.85		4626	EV	3
	3.97		6886	EV	4
	4.17		1484	VV	5
	4.82		904	BB	6
	5.34		1102	VB	7
	6.53		1519	VB	8
	7.04		524	BV	9
	7.30		1880	VB	10
TCMX	10.63	0.0993	341748	VE	11
	11.47		9728	VB	12
	11.90		14723	BV	13
	12.14		51006	VB	14
	12.82		1145	BV	15
	12.99		5545	VB	16
	13.51		785	BV	17
	13.86		52704	VV	18
	13.96		34764	VV	19
	14.31		11076	VB	20
AR1016-1	14.67	0.980	63856	BV	21
	15.09		2656	VV	22
	15.19		1713	VV	23
	15.36		16933	VV	24
	15.48		12230	VV	25
AR1016-2	15.78	0.990	197569	VV	26
AR1016-3	16.19	0.984	82503	VV	27
AR1016-4	16.52	0.983	64335	VV	28
	16.74		13520	VB	29
AR1016-5	17.17	0.978	37492	BV	30
	17.36		33904	VV	31
	17.52		32424	VB	32
	18.05		50321	VV	33
	18.21		31263	VV	34
	18.58		65991	VV	35
	18.93		11974	VE	36
	19.10		1194	EB	37
	19.34		1014	BV	38
	19.50		6551	VV	39
	19.64		9763	VV	40
	19.83		38035	VE	41
	20.11		1528	EB	42
	20.51		9625	BV	43
	20.73		41201	VE	44
	20.96		904	EB	45
	21.65		2029	BV	46
	21.86		10626	VB	47
	22.19		14438	BV	48
	22.26		27345	VB	49
	22.74		53307	BV	50

Sample ID: 1.0UG/ML AR1016/126 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_006 Analysis Date: 7-MAY-1997 20:58:53

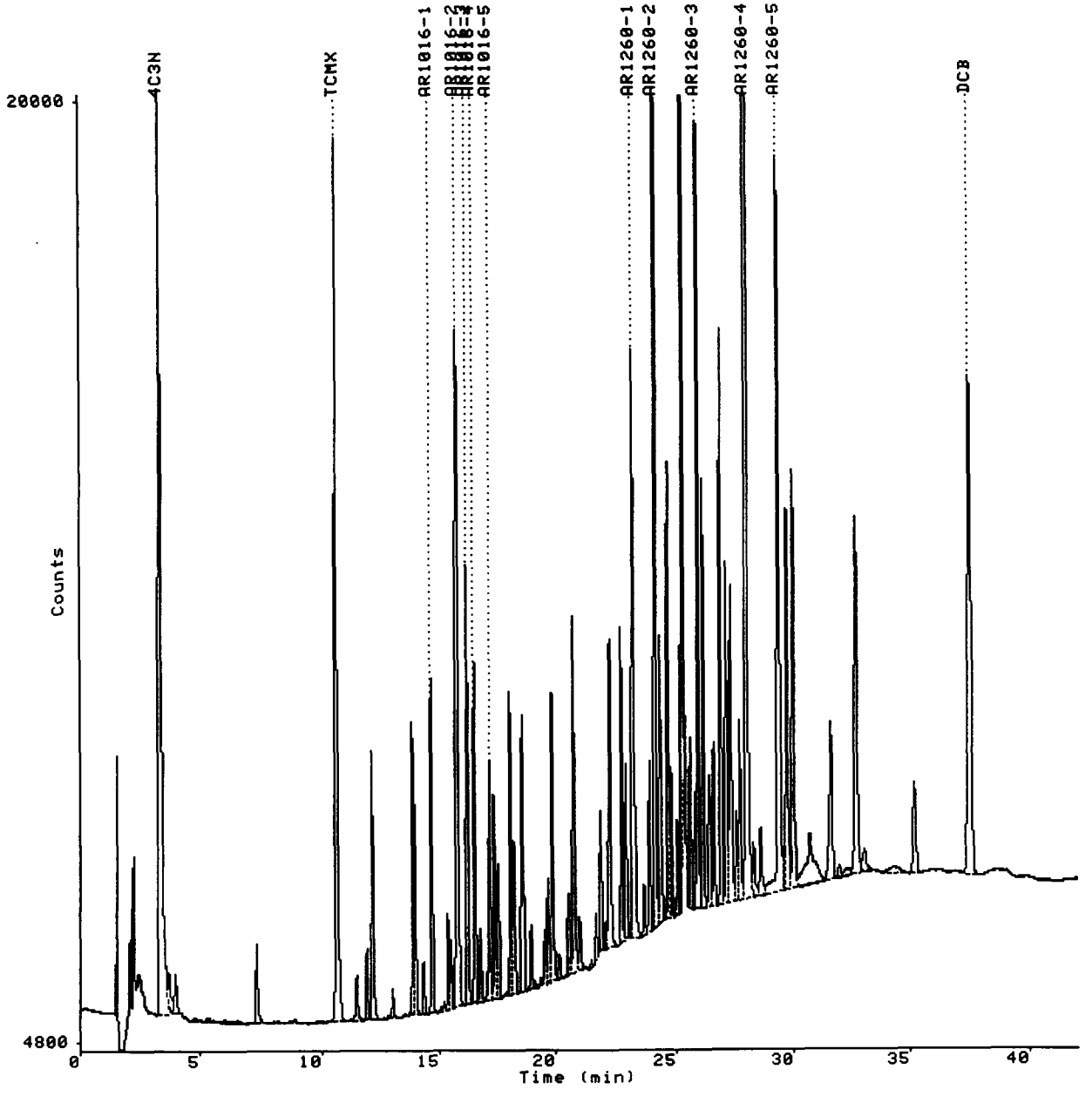
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	22.92		32637	VE	51
AR1260-1	23.22	0.988	107382	VB	52
	23.68		9225	BV	53
	23.91		30234	VV	54
AR1260-2	24.16	1.00	187842	VV	55
	24.35		41574	VV	56
	24.69		81319	VV	57
	24.80		25333	VV	58
	25.09		18097	VV	59
	25.30		238106	VV	60
	25.61		32825	VV	61
AR1260-3	25.94	1.00	154891	VV	62
	26.15		81182	VV	63
	26.42		23780	VV	64
	26.60		32131	VV	65
	26.89		108969	VV	66
	27.12		65820	VV	67
	27.32		64127	VV	68
	27.57		14879	VV	69
	27.70		34582	VV	70
AR1260-4	27.98	1.01	460371	VE	71
	28.28		9900	EV	72
	28.59		13756	EV	73
AR1260-5	29.35	1.00	195212	BV	74
	29.56		4859	VV	75
	29.71		87267	VV	76
	29.98		103794	VB	77
	30.71		7261	BB	78
	31.61		51101	BV	79
	31.95		3542	VB	80
	32.68		103903	BE	81
	33.03		5300	EB	82
	35.16		33313	BB	83
DCB	37.53	0.0996	381251	BB	84

AR1016 average result...0.983
AR1260 average result...1.00

Run Number..... 6 End of Report.

Run Number..... 14
Sample Name..... 0.4UG/ML AR1660
Run Date..... 8-MAY-1997 03:55:33
Raw File..... 10_0507_015
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



0.4UG/ML AR1660

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1660 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_015 Analysis Date: 8-MAY-1997 03:55:33

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
4C3N	3.33	0.0503	122245	BE	1
	3.72		5154	EV	2
	3.98		3865	EB	3
	4.82		590	BV	4
	7.31		6648	BB	5
TCMX	10.65	0.0211	75902	BB	6
	11.49		4366	BB	7
	11.91		5512	BV	8
	12.16		22566	VB	9
	13.01		2318	VB	10
	13.88		23663	BV	11
	13.98		15240	VB	12
	14.33		4627	BB	13
AR1016-1	14.69	0.416	28107	BB	14
	15.10		527	BV	15
	15.21		618	VV	16
	15.38		7085	VV	17
	15.50		5000	VV	18
AR1016-2	15.79	0.403	82615	VB	19
AR1016-3	16.21	0.408	35394	BV	20
AR1016-4	16.53	0.407	27528	VV	21
	16.76		6061	VV	22
AR1016-5	17.19	0.550	21614	VV	23
	17.38		16295	VV	24
	17.54		14231	VB	25
	17.92		590	BV	26
	18.07		25246	VV	27
	18.23		13571	VB	28
	18.60		29633	BB	29
	18.95		5062	BB	30
	19.36		743	BV	31
	19.52		4613	VV	32
	19.66		9230	VV	33
	19.86		26499	VE	34
	20.13		2513	EB	35
	20.53		8129	BV	36
	20.75		30923	VE	37
	20.99		5354	EB	38
	21.46		508	BB	39
	21.67		3473	BB	40
	21.88		11318	BB	41
	22.07		1952	BV	42
	22.28		32896	VB	43
	22.76		24789	BV	44
	22.94		14367	VB	45
	23.11		842	BV	46
AR1260-1	23.24	0.559	61648	VB	47
	23.70		4395	BV	48
	23.93		13904	VB	49
AR1260-2	24.18	0.426	80515	BV	50

642

Sample ID: 0.4UG/ML AR1660 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_015 Analysis Date: 8-MAY-1997 03:55:33

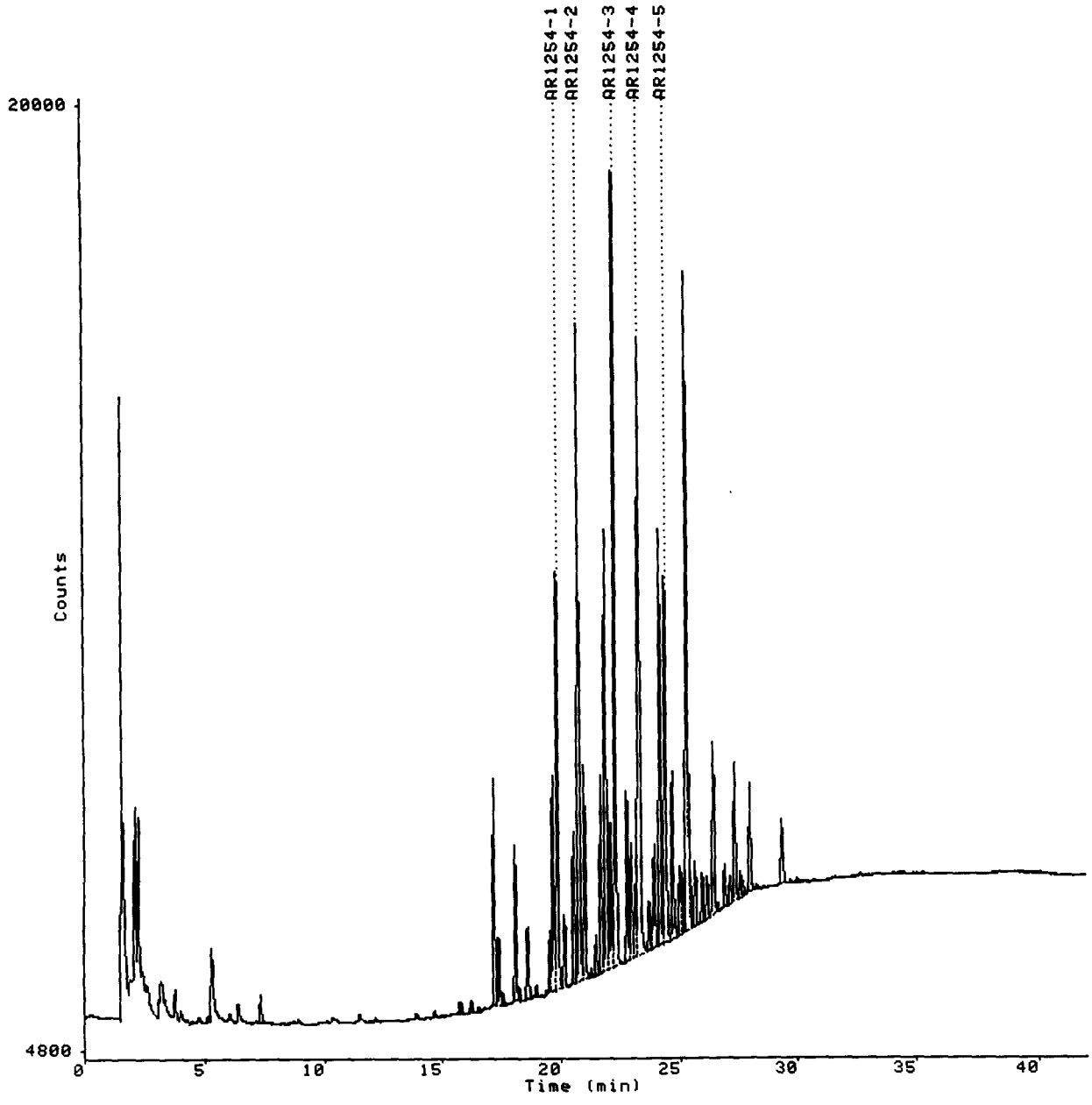
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	24.38		28048	VB	51
	24.71		35558	BV	52
	24.83		10330	VB	53
	25.01		803	BV	54
	25.11		7197	VB	55
	25.32		80810	BB	56
	25.64		13833	BB	57
AR1260-3	25.96	0.401	62681	BV	58
	26.17		33192	VV	59
	26.44		13213	VV	60
	26.62		12919	VB	61
	26.91		45207	BV	62
	27.15		28645	VV	63
	27.34		32365	VV	64
	27.59		8698	VV	65
	27.72		16016	VV	66
AR1260-4	28.00	0.406	184719	VE	67
	28.30		5700	EV	68
	28.61		8136	EV	69
AR1260-5	29.37	0.456	89316	VV	70
	29.58		2923	VV	71
	29.74		39040	VV	72
	30.01		45151	VE	73
	30.73		20626	EV	74
	31.64		21288	VE	75
	31.98		1692	EV	76
	32.37		2069	EV	77
	32.70		45762	VE	78
	33.05		4628	EB	79
	34.32		2574	BB	80
	35.19		12725	BB	81
DCB	37.55	0.0205	81251	BB	82

AR1016 average result...0.437
AR1260 average result...0.450

Run Number..... 14 End of Report.

Run Number..... 22
Sample Name..... 0.4UG/ML AR1254
Run Date..... 8-MAY-1997 14:29:13
Raw File..... 10_0507_023
Method Name..... 10_AR1254_0502
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



0.4UG/ML AR1254

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1254 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_023 Analysis Date: 8-MAY-1997 14:29:13

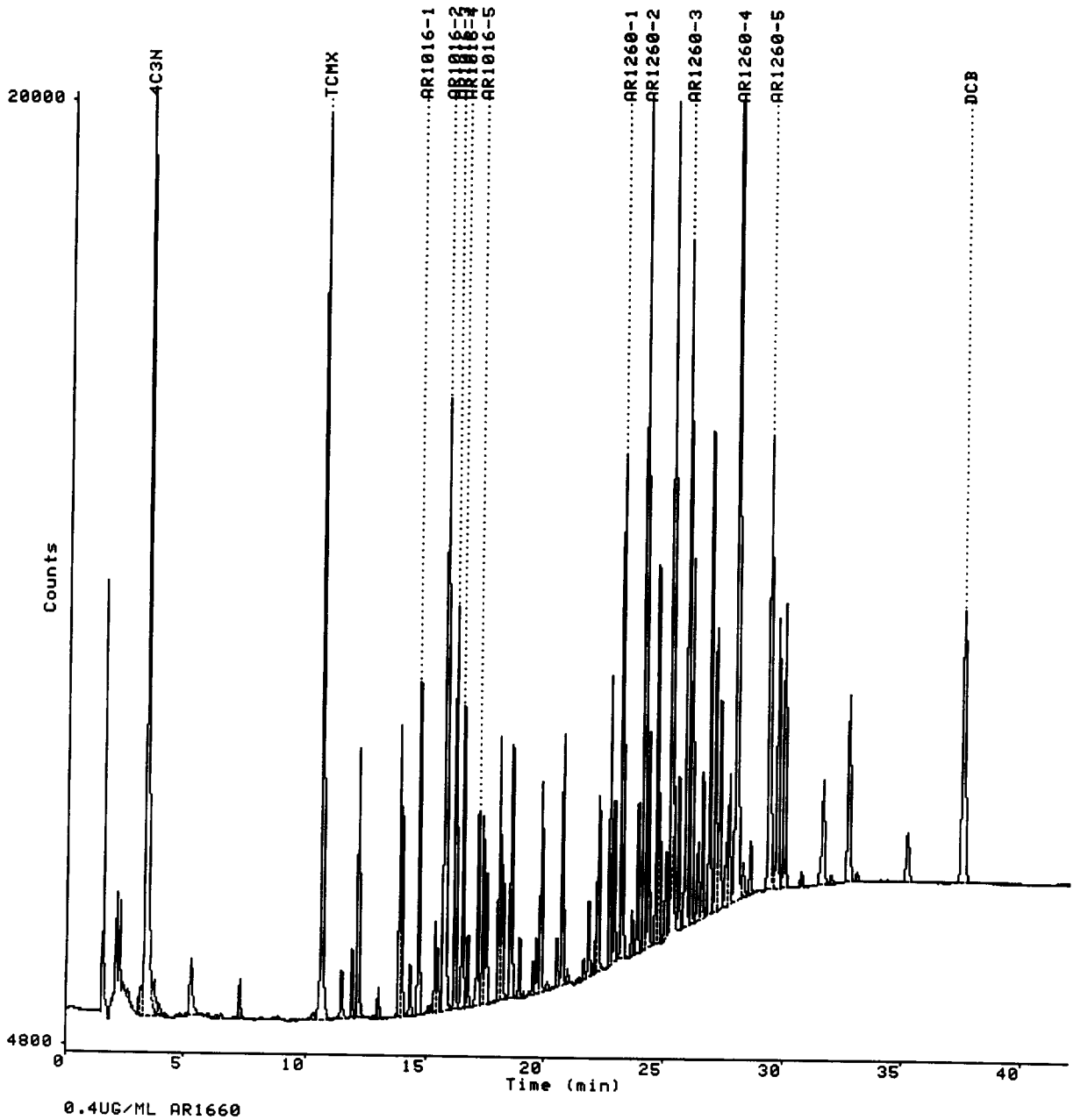
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	7.31		2028	BB	1
	17.18		17803	BV	2
	17.38		5467	VE	3
	18.07		12500	BE	4
	18.59		6531	BV	5
	19.52		4964	VV	6
	19.66		17998	VV	7
AR1254-1	19.85	0.437	35298	VV	8
	20.12		5700	VB	9
	20.52		13398	BV	10
AR1254-2	20.75	0.440	52943	VV	11
	20.98		17064	VB	12
	21.45		2971	BB	13
	21.66		15726	BV	14
	21.87		37177	VV	15
	22.06		11703	VV	16
AR1254-3	22.28	0.393	65114	VB	17
	22.76		13950	BV	18
	22.94		9782	VV	19
	23.10		5475	VV	20
AR1254-4	23.30	0.344	68594	VV	21
	23.70		4506	VV	22
	23.79		1910	VV	23
	23.93		9204	VB	24
	24.17		32663	BV	25
AR1254-5	24.40	0.317	38711	VV	26
	24.70		14102	VB	27
	25.00		5336	BV	28
	25.10		4493	VV	29
	25.31		59636	VE	30
	25.42		6727	EV	31
	25.66		5551	VB	32
	25.96		3981	BB	33
	26.16		3689	BV	34
	26.44		16071	VE	35
	26.91		3637	BV	36
	27.14		2211	VV	37
	27.34		12133	VV	38
	27.59		2543	VV	39
	27.99		9787	BE	40
	29.36		6896	BB	41

Average result...0.386 UG/ML

Run Number..... 22 End of Report.

Run Number..... 23
Sample Name..... 0.4UG/ML AR1660
Run Date..... 8-MAY-1997 15:15:30
Raw File..... 10_0507_024
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1660 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_024 Analysis Date: 8-MAY-1997 15:15:30

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	2.62		939	BB	1
	3.08		900	BV	2
	3.19		3420	VV	3
4C3N	3.35	0.0482	117037	VE	4
	3.74		4983	EV	5
	3.98		990	EB	6
	5.27		8080	VB	7
	7.30		3088	VB	8
	10.32		517	BV	9
TCMX	10.64	0.0209	75399	VB	10
	11.47		4931	BB	11
	11.90		5294	BV	12
	12.15		22318	VB	13
	12.99		2273	VB	14
	13.86		23562	BV	15
	13.96		14407	VB	16
	14.31		4536	BB	17
AR1016-1	14.67	0.404	27370	BB	18
	15.09		716	BV	19
	15.19		580	VV	20
	15.36		6865	VV	21
	15.48		4760	VV	22
AR1016-2	15.78	0.375	77118	VV	23
AR1016-3	16.19	0.380	33161	VV	24
AR1016-4	16.52	0.372	25303	VV	25
	16.74		5670	VB	26
AR1016-5	17.17	0.429	17092	BV	27
	17.36		14745	VV	28
	17.52		13740	VB	29
	18.05		21510	VV	30
	18.21		12553	VB	31
	18.58		27249	BB	32
	18.93		4560	BB	33
	19.50		2677	VV	34
	19.64		4565	VV	35
	19.83		17876	VE	36
	20.11		895	EB	37
	20.51		4332	BV	38
	20.73		20325	VE	39
	20.97		1251	EB	40
	21.44		761	BV	41
	21.65		2034	VV	42
	21.86		6450	VE	43
	22.05		695	EV	44
	22.19		5456	VV	45
	22.26		14940	VB	46
	22.74		22500	BV	47
	22.92		13428	VB	48
AR1260-1	23.22	0.402	44946	BB	49
	23.68		3560	BB	50

Sample ID: 0.4UG/ML AR1660 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_024 Analysis Date: 8-MAY-1997 15:15:30

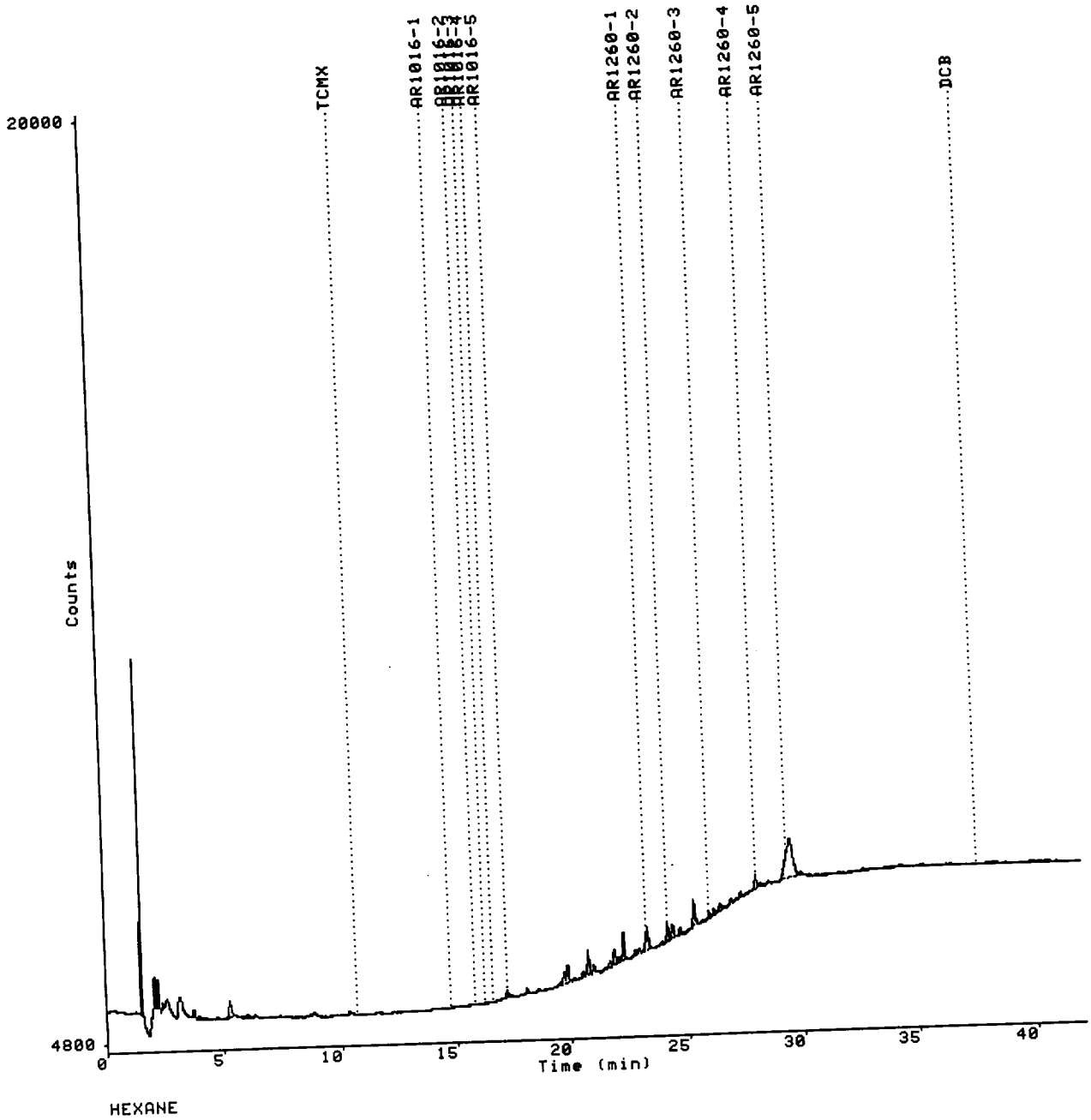
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.91		11680	BB	51
AR1260-2	24.16	0.353	66843	BV	52
	24.35		18155	VB	53
	24.69		30410	BV	54
	24.80		10321	VB	55
	25.09		6695	BB	56
	25.30		61572	BB	57
	25.62		11846	BB	58
AR1260-3	25.94	0.351	55004	BV	59
	26.15		28807	VV	60
	26.42		7707	VV	61
	26.60		11490	VV	62
	26.89		38702	VV	63
	27.12		23783	VV	64
	27.32		21479	VV	65
	27.57		5731	VV	66
	27.70		11272	VV	67
AR1260-4	27.98	0.277	125756	VE	68
	28.28		3258	EV	69
	28.59		4973	EB	70
AR1260-5	29.35	0.260	51120	BE	71
	29.56		1314	EV	72
	29.71		26373	VV	73
	29.98		29817	VB	74
	30.71		1455	BB	75
	31.61		13475	BB	76
	31.95		868	BB	77
	32.68		22496	BE	78
	33.03		986	EB	79
	35.16		6776	BB	80
DCB	37.53	0.0108	44251	BB	81

AR1016 average result...0.392
AR1260 average result...0.328

Run Number..... 23 End of Report.

Run Number..... 28
Sample Name..... HEXANE
Run Date..... 8-MAY-1997 19:36:44
Raw File..... 10_0507_029
Method Name..... 10_AR1660_0502
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE
Datafile: 10_0507_029

Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Analysis Date: 8-MAY-1997 19:36:44

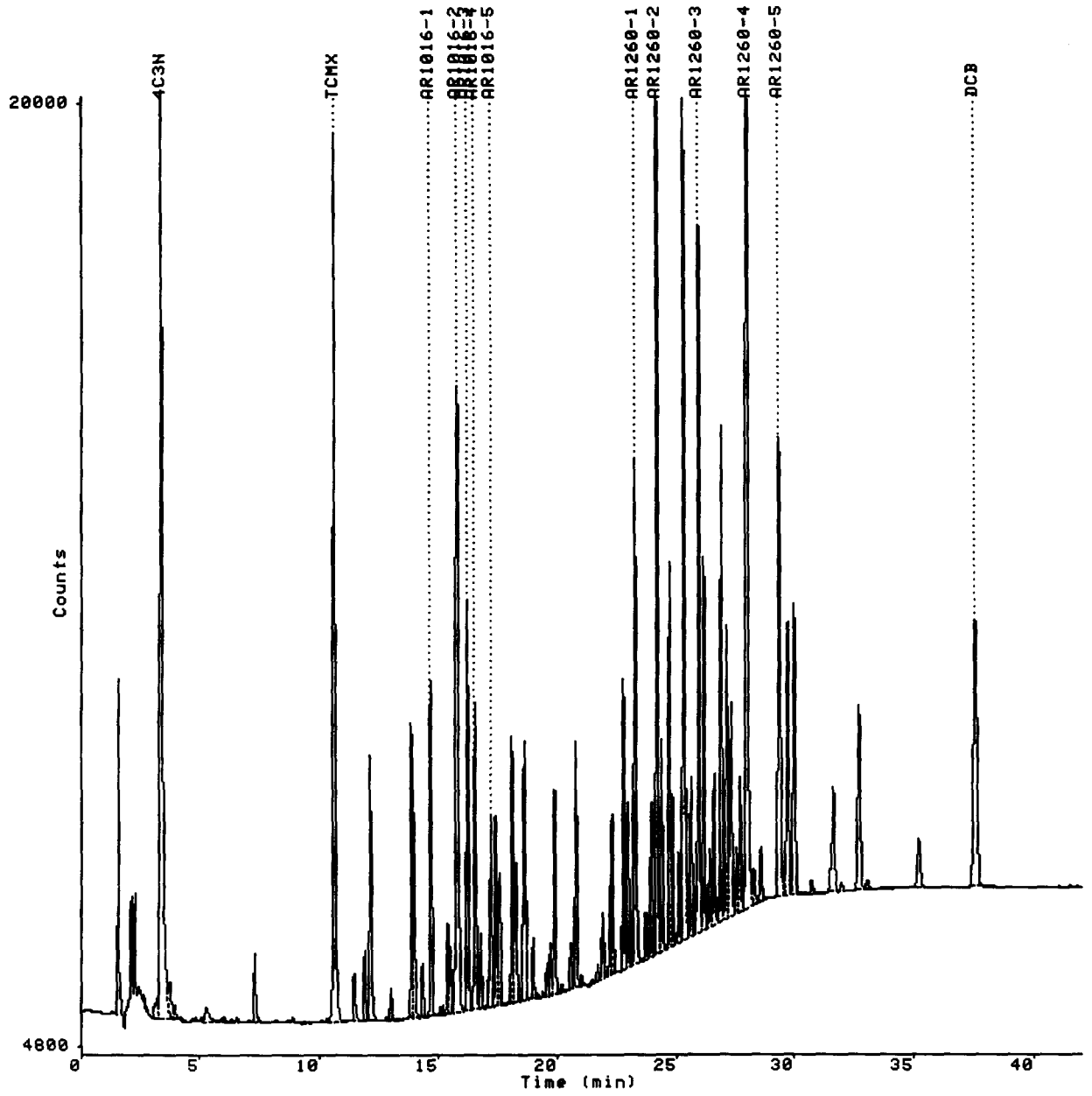
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	5.26		2021	BB	1
AR1016-5	17.20	-0.00731	782	BV	2
	19.74		1695	VV	3
	19.86		1864	VE	4
	20.54		753	BV	5
	20.76		2423	VV	6
	20.98		870	VB	7
	21.67		899	VV	8
	21.88		1643	VV	9
	22.07		508	VV	10
	22.28		2979	VB	11
	22.76		542	BV	12
	22.94		602	VV	13
AR1260-1	23.30	0.00972	3275	VB	14
AR1260-2	24.17	-0.00233	1602	BV	15
	24.40		1719	VB	16
	24.71		935	BB	17
	25.32		2053	BB	18
AR1260-3	25.96	-0.00958	614	BV	19
	26.18		783	VV	20
	26.45		986	VE	21
	26.91		755	VV	22
	27.35		762	VE	23
AR1260-4	28.00	0.00177	1469	BV	24
	28.22		654	VV	25
	29.53		15159	BE	26

Average result...0.00000 UG/ML

Run Number..... 28 End of Report.

Run Number..... 29
Sample Name..... 0.4UG/ML AR1660
Run Date..... 8-MAY-1997 20:22:56
Raw File..... 10_0507_030
Method Name..... 10_AR1660_0507
Method Type..... Linear

V3400 4A 30M RTX5 2uL INJ METHOD 8081



0.4UG/ML AR1660

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1660 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_030 Analysis Date: 8-MAY-1997 20:22:56

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	2.64		599	BB	1
	3.16		3008	BV	2
4C3N	3.34	0.0496	120375	VE	3
	3.73		5043	EV	4
	3.97		1131	EB	5
	5.28		2592	VV	6
	6.01		740	VB	7
	7.31		5571	BB	8
	8.90		666	VB	9
TCMX	10.65	0.0212	76239	VB	10
	11.49		4465	BB	11
	11.91		5458	BV	12
	12.16		22387	VB	13
	13.01		2394	VB	14
	13.88		24032	BV	15
	13.98		15018	VV	16
	14.33		4816	VB	17
AR1016-1	14.69	0.418	28253	BE	18
	15.10		843	EV	19
	15.21		672	EV	20
	15.38		7108	VV	21
	15.50		5016	VV	22
AR1016-2	15.80	0.386	79306	VV	23
AR1016-3	16.21	0.392	34138	VV	24
AR1016-4	16.54	0.385	26116	VV	25
	16.76		5813	VB	26
AR1016-5	17.19	0.427	17023	BV	27
	17.38		14995	VV	28
	17.54		14013	VB	29
	18.07		21911	VV	30
	18.23		12906	VV	31
	18.60		28099	VV	32
	18.95		4911	VE	33
	19.53		2624	VV	34
	19.67		4384	VV	35
	19.86		17364	VE	36
	20.13		813	EB	37
	20.53		4167	BV	38
	20.76		20189	VE	39
	20.99		1010	EB	40
	21.46		506	BV	41
	21.67		1454	VV	42
	21.88		5494	VE	43
	22.21		5791	VV	44
	22.28		13309	VB	45
	22.76		23022	BV	46
	22.94		13995	VV	47
AR1260-1	23.25	0.402	44964	VB	48
	23.70		3705	BV	49
	23.94		12126	VV	50

Sample ID: 0.4UG/ML AR1660 Instrument: V3400 4A 30M RTX5 2uL INJ METHOD 808
Datafile: 10_0507_030 Analysis Date: 8-MAY-1997 20:22:56

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
AR1260-2	24.18	0.364	68988	VV	51
	24.37		17668	VV	52
	24.71		31112	VV	53
	24.83		10660	VV	54
	25.12		7154	VV	55
	25.32		75687	VE	56
	25.43		6485	EV	57
	25.64		13224	VV	58
AR1260-3	25.97	0.367	57471	VV	59
	26.17		30017	VV	60
	26.45		7834	VV	61
	26.62		12172	VV	62
	26.92		39914	VV	63
	27.15		24649	VV	64
	27.34		22145	VV	65
	27.59		5982	VV	66
	27.73		11564	VV	67
AR1260-4	28.00	0.284	128763	VE	68
	28.31		3524	EV	69
	28.61		5223	EB	70
AR1260-5	29.37	0.265	52063	BV	71
	29.59		1544	VV	72
	29.74		27106	VV	73
	30.01		30325	VB	74
	30.74		1444	BB	75
	31.64		13840	BV	76
	31.98		967	VB	77
	32.71		22734	BE	78
	33.06		1077	EB	79
	35.20		6706	BB	80
DCB	37.56	0.0107	43896	BB	81

AR1016 average result...0.402
AR1260 average result...0.336

Run Number..... 29 End of Report.

Project No.
Book No. 1166 TITLE

ECOLOGY & ENVIRONMENT, INC
ANALYTICAL SERVICES CENTER
GAS CHROMATOGRAPHY LAB
INSTRUMENT RUNLOG

Notebook # 1166 Page# 70

Analytical Method: 8081
Instrument ID: V3400 #4
Operator: [illegible] Initials: [illegible] Date: 5/7/00

GC Temperature Information

Initial Oven Temp: 150 C
Initial Oven Hold: 1 Min
Oven Temp. Ramp: 5 C/Min
Final Oven Temp: 280 C
Final Oven Hold: 11 Min
Injector Temp: 200 C
Detector Temp: 300 C
Injection Vol: 2.0 uL
Detector A,B : ECD, ECD
Range: 10
Attn : 8

FLOW(He) @ PSI 8 mL/Min

Column Information

Column 1 : RTX-5 Channel 10
5%-Diphenyl - 95% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 1.0 uM

Column 2 : RTX-35 Channel-11
35%-Diphenyl - 65% Dimethyl-polysiloxane
Length : 30 Meters
Diameter : 0.53 mm
Film : 0.50 uM

Test Performed: PCB
Method Number: 8081
Date: 5/7/97
Work Performed By: [illegible]

Job #800 Ch.11 Confirmation
1660 curve & Reps

Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
	HEXANE	1	11/10_0507_001		N50315	JR
	0.1UG/ML AR1016/126	2	10_0507_002		445-160-1	
	0.2UG/ML AR1016/126	3	10_0507_003		445-160-2	
	0.4UG/ML AR1016/126	4	10_0507_004		445-160-3	
	0.5UG/ML AR1016/126	5	10_0507_005		445-160-4	
	1.0UG/ML AR1016/126	6	10_0507_006		445-160-5	
970.904	SLCS1164-154-1 2X	7	10_0507_007		Hg/Acid	
	SLCS1164-154-2 2X	8	10_0507_008			
	SBK1164-154-3 1X	9	10_0507_009			
	65372 1X	10	10_0507_010			
	65373 1X	11	10_0507_011			
	65374 1X	12	10_0507_012			
	HEXANE	13	10_0507_013		N50315	
	HEXANE	14	10_0507_014			
	0.4UG/ML AR1660	15	10_0507_015		445-160-3	
970.860	65112 3250 10X	16	10_0507_016		Hg/Acid	
	65112 3260 10X	17	10_0507_017			
970.973	65778 1X	18	10_0507_018			

To Page No.

Witnessed & Understood by me,	Date	Invented by	Date
[illegible]	5/9/97	Recorded by	

Test Performed: PCB

Method Number: 8081
Date: 5/8/97
Work Performed By: [illegible]

GC PARAMETER REF: 1166-70

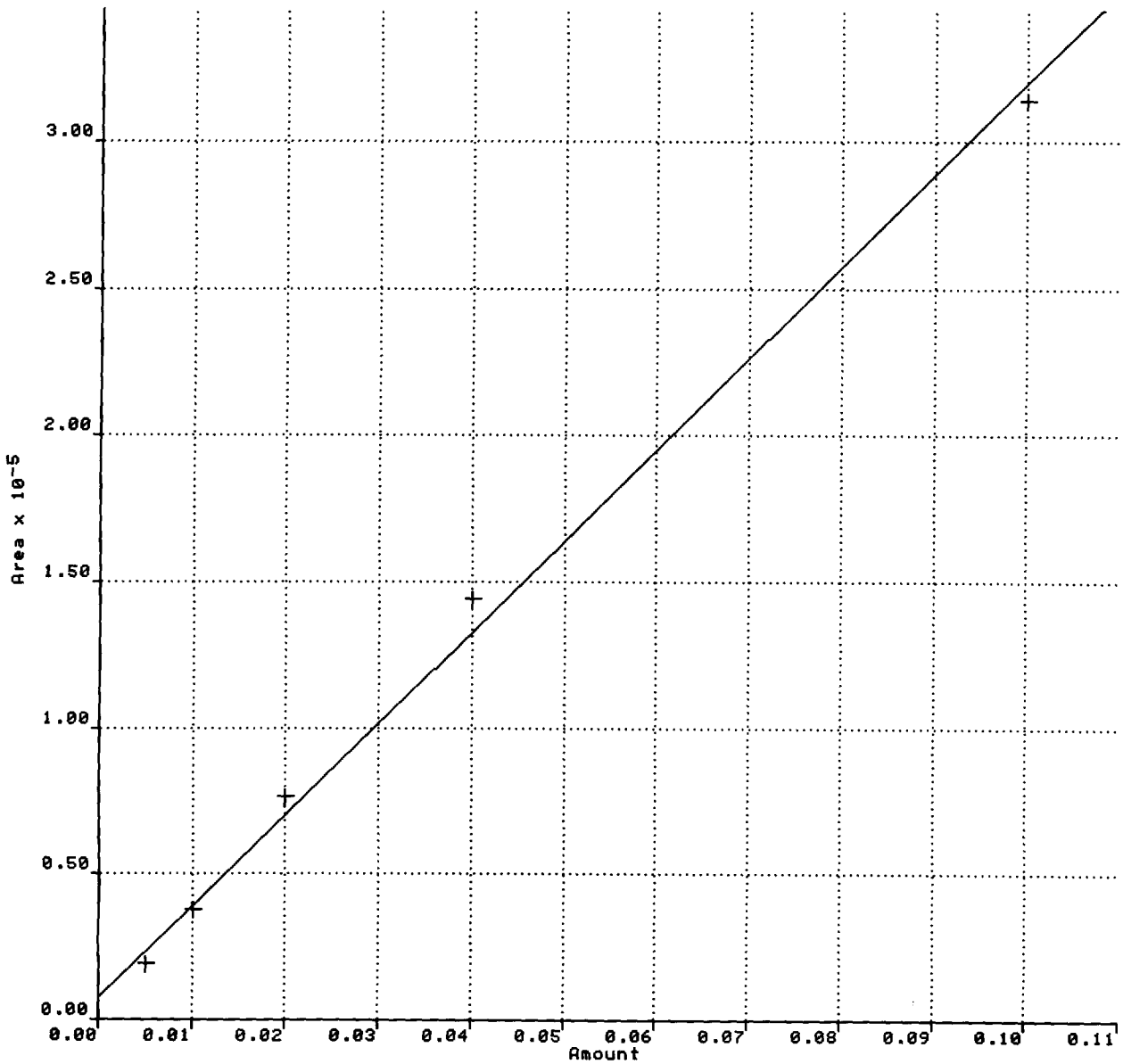
Job No.	Sample ID	Run #	Datafile	Dil.	Comments	Analyst
9700928	65592 1X	19	10_0507_019		Hg/Acid	CR
9700904	65372 10000X	20	10_0507_020			
	65373 10000X	21	10_0507_021			
	65374 20000X	22	10_0507_022			
	0.4UG/ML AR1254	23	10_0507_023		445-160-9	
	0.4UG/ML AR1660	24	10_0507_024		445-160-3	
9700904	65372 5000X	25	10_0507_025		Hg/Acid	
	65373 2000X	26	10_0507_026			
	65374 20000X	27	10_0507_027			
9700928	65592 1X SURR CHK	28	10_0507_028			
	HEXANE	29	10_0507_029		K50315	
	0.4UG/ML AR1660	30	10_0507_030		445-160-3	

CR 5/9/97

Witnessed & Understood by me.	Date	Invented by	Date
[illegible]	5/8/97	Recorded by	

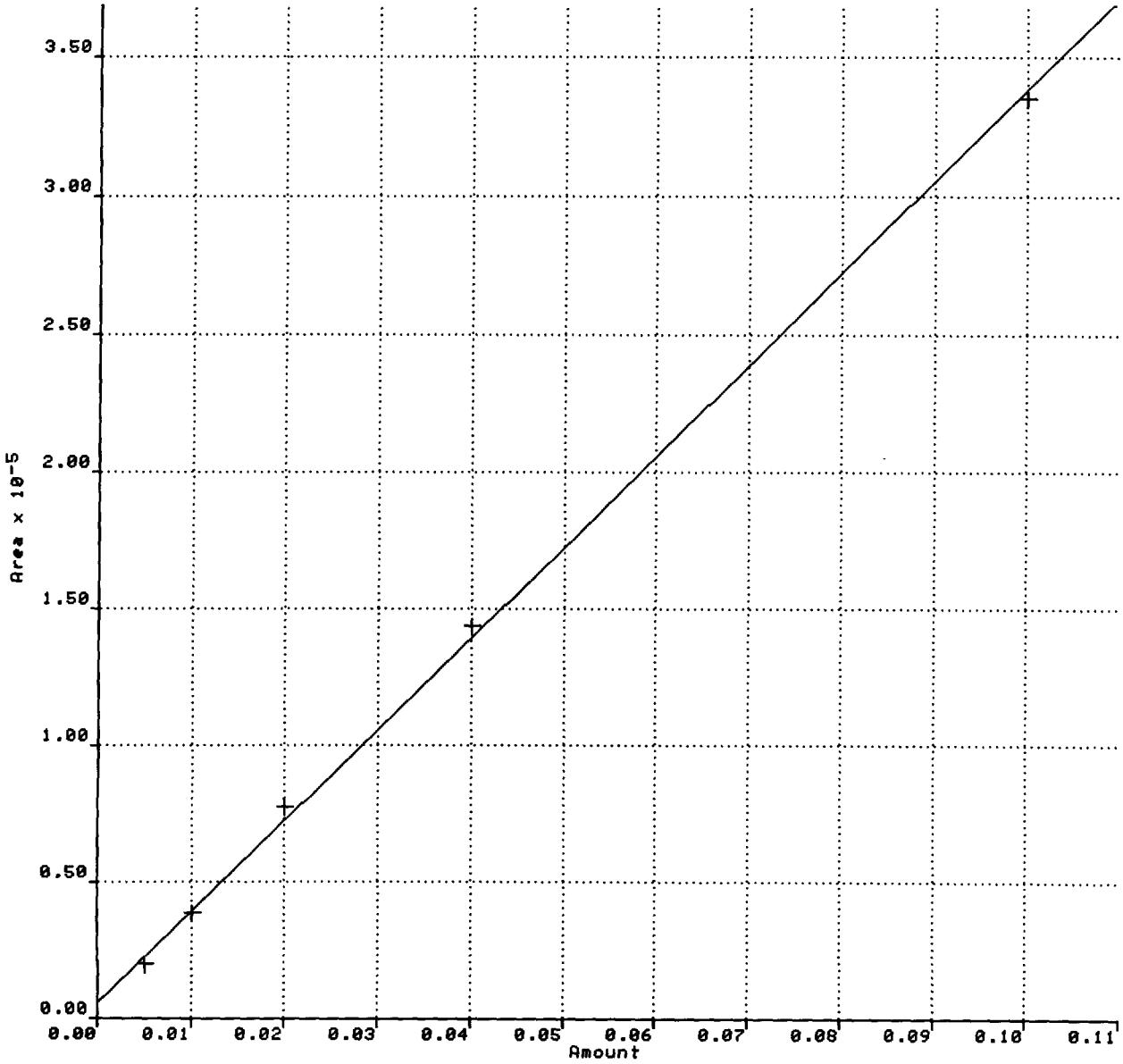
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: TCMX
Date: 8-MAY-1997 11:17:17.07
Linear fit, Origin Treament....Use.
K0: 7.4862E+03 K1: 3.1208E+06
Coeff. of determination: 0.9962

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	19114	5.0000E-03	
0.20 AR1016/1260	37697	1.0000E-02	
0.40 AR1016/1260	76353	2.0000E-02	
0.50 AR1016/1260	143985	4.0000E-02	
1.0 AR1016/1260	313907	0.10000	



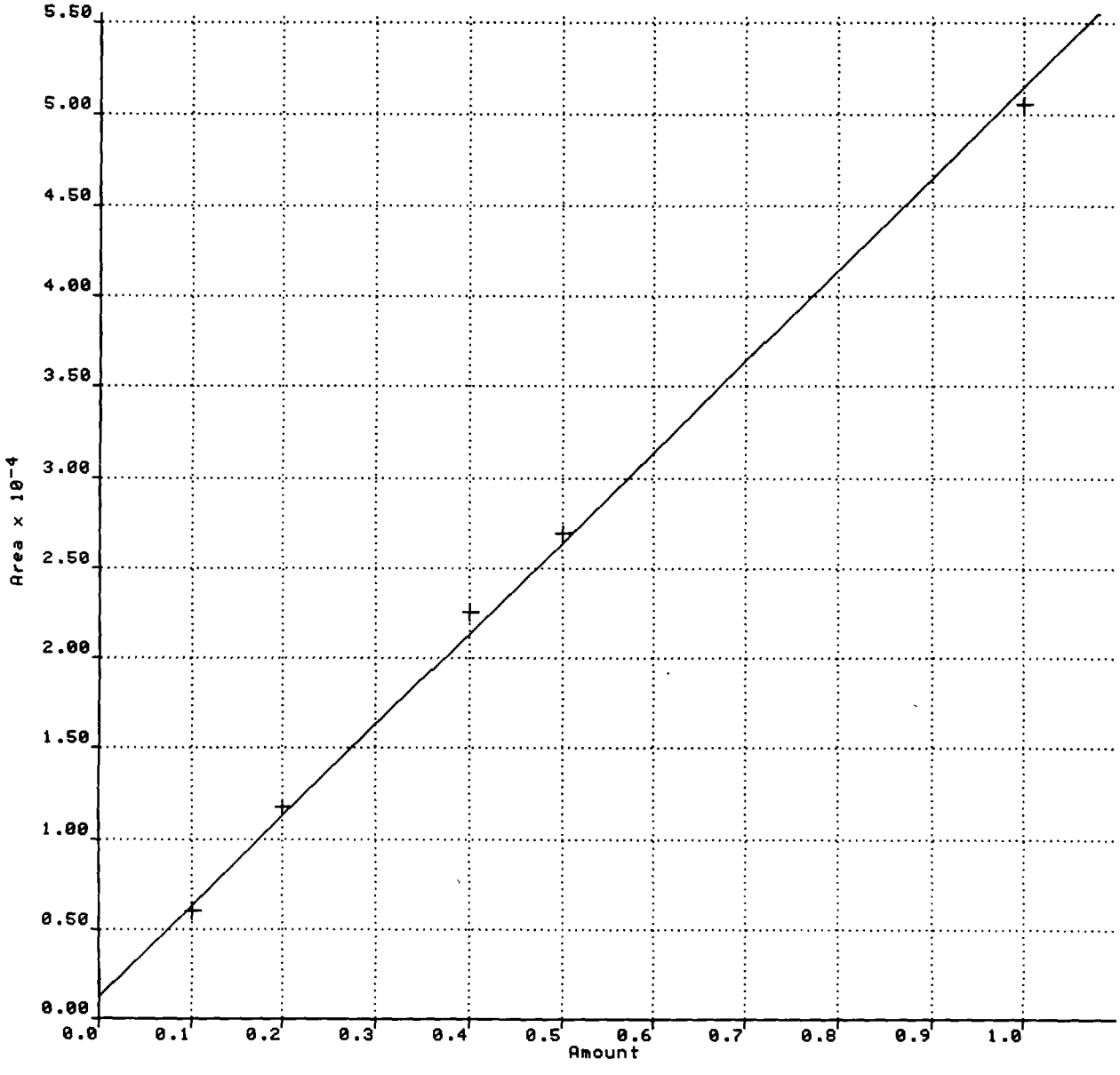
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: DCB
Date: 8-MAY-1997 11:17:21.80
Linear fit, Origin Treament....Use.
K0: 5.4556E+03 K1: 3.3296E+06
Coeff. of determination: 0.9991

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	20227	5.0000E-03	
0.20 AR1016/1260	38867	1.0000E-02	
0.40 AR1016/1260	77453	2.0000E-02	
0.50 AR1016/1260	143320	4.0000E-02	
1.0 AR1016/1260	335540	0.10000	



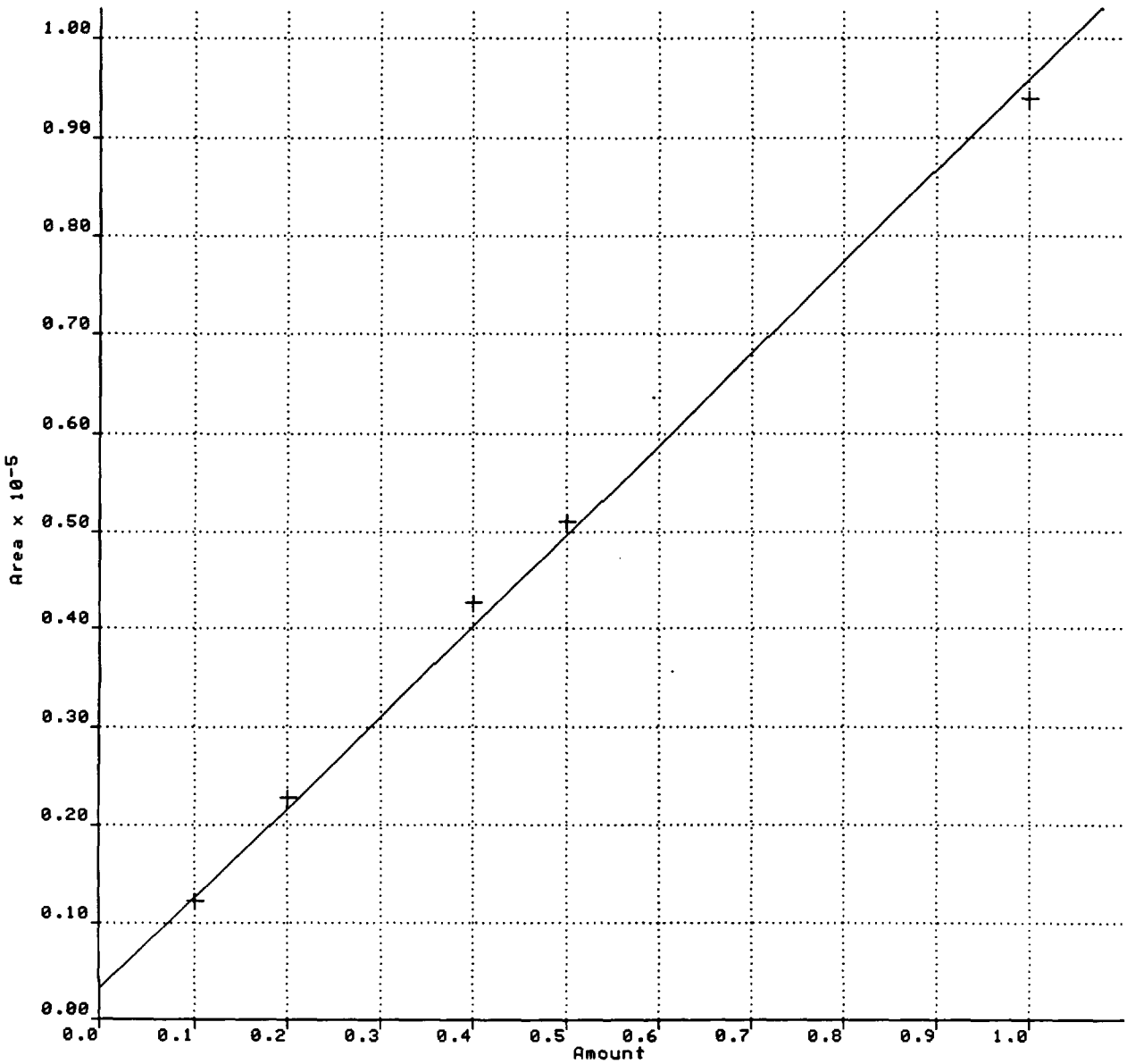
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1016-1
Date: 8-MAY-1997 11:17:17.37
Linear fit, Origin Treament....Use.
K0: 1.2502E+03 K1: 5.0134E+04
Coeff. of determination: 0.9976

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	6015	0.10000	
0.20 AR1016/1260	11785	0.20000	
0.40 AR1016/1260	22536	0.40000	
0.50 AR1016/1260	26973	0.50000	
1.0 AR1016/1260	50486	1.0000	



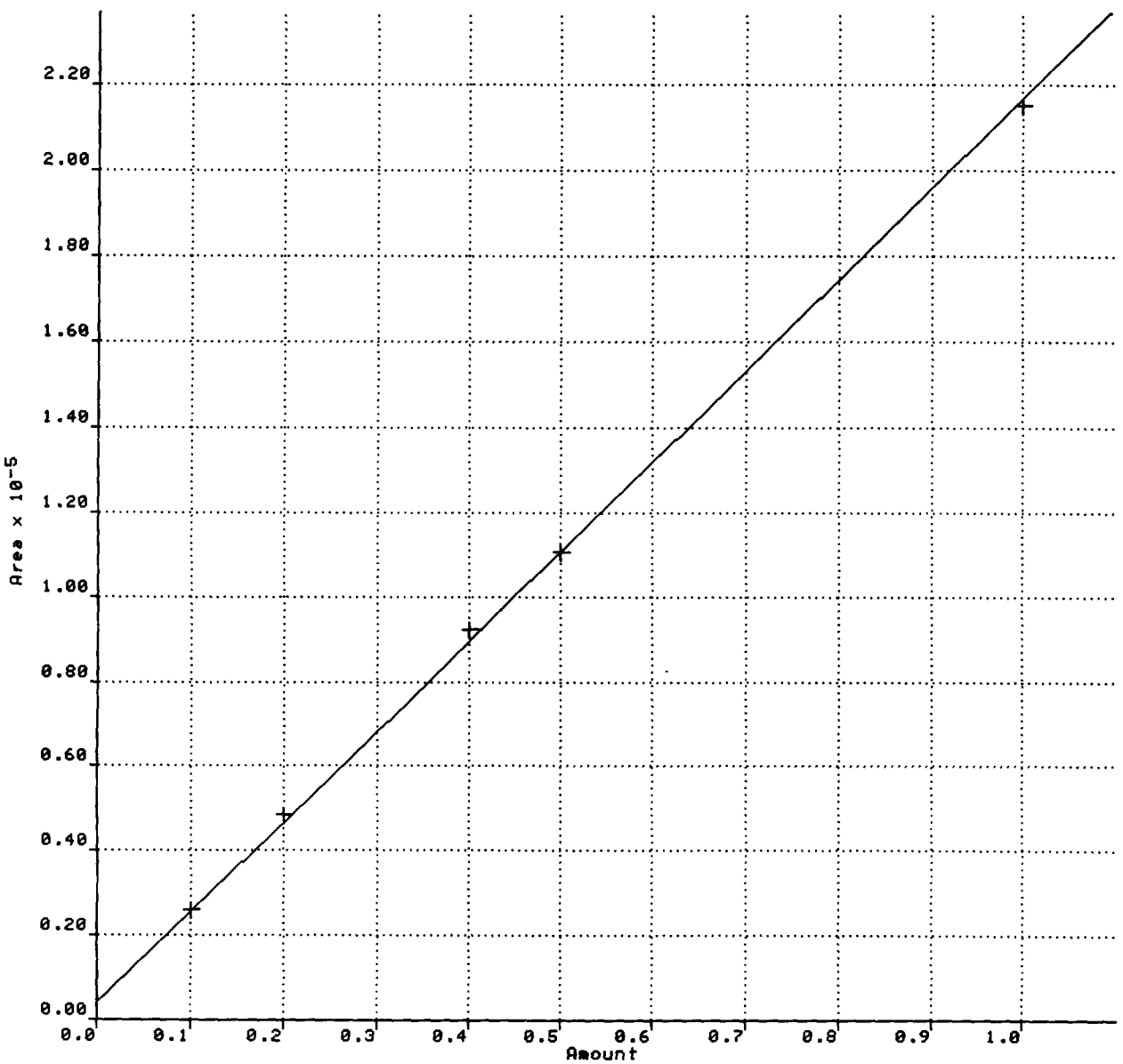
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1016-2
Date: 8-MAY-1997 11:17:17.79
Linear fit, Origin Treament....Use.
K0: 3.0947E+03 K1: 9.2740E+04
Coeff. of determination: 0.9968

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	12260	0.10000	
0.20 AR1016/1260	22822	0.20000	
0.40 AR1016/1260	42649	0.40000	
0.50 AR1016/1260	51012	0.50000	
1.0 AR1016/1260	93852	1.0000	



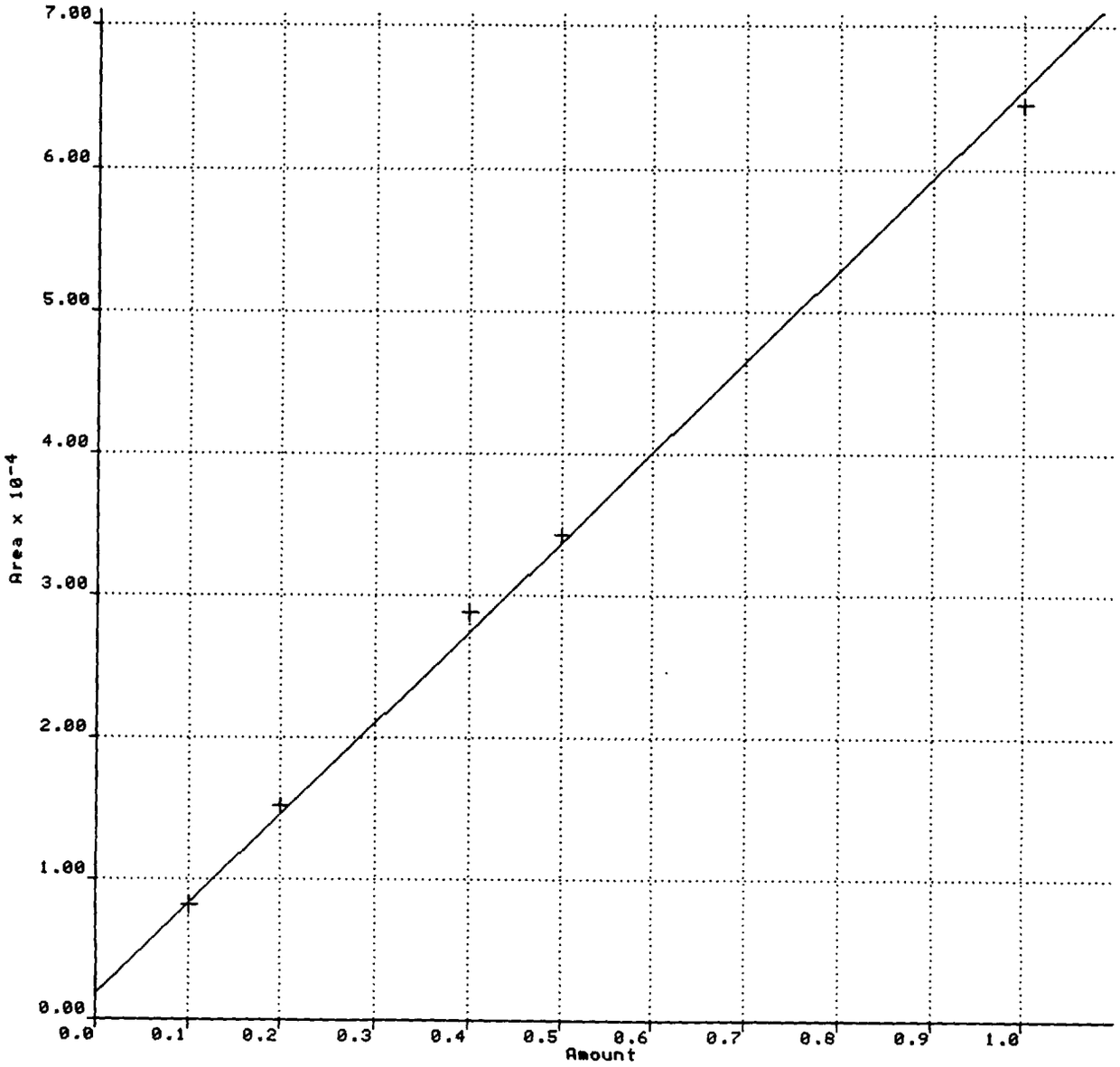
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1016-3
Date: 8-MAY-1997 11:17:18.22
Linear fit, Origin Treament....Use.
K0: 4.0326E+03 K1: 2.1303E+05
Coeff. of determination: 0.9993

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	25893	0.10000	
0.20 AR1016/1260	48657	0.20000	
0.40 AR1016/1260	92317	0.40000	
0.50 AR1016/1260	110688	0.50000	
1.0 AR1016/1260	215299	1.0000	



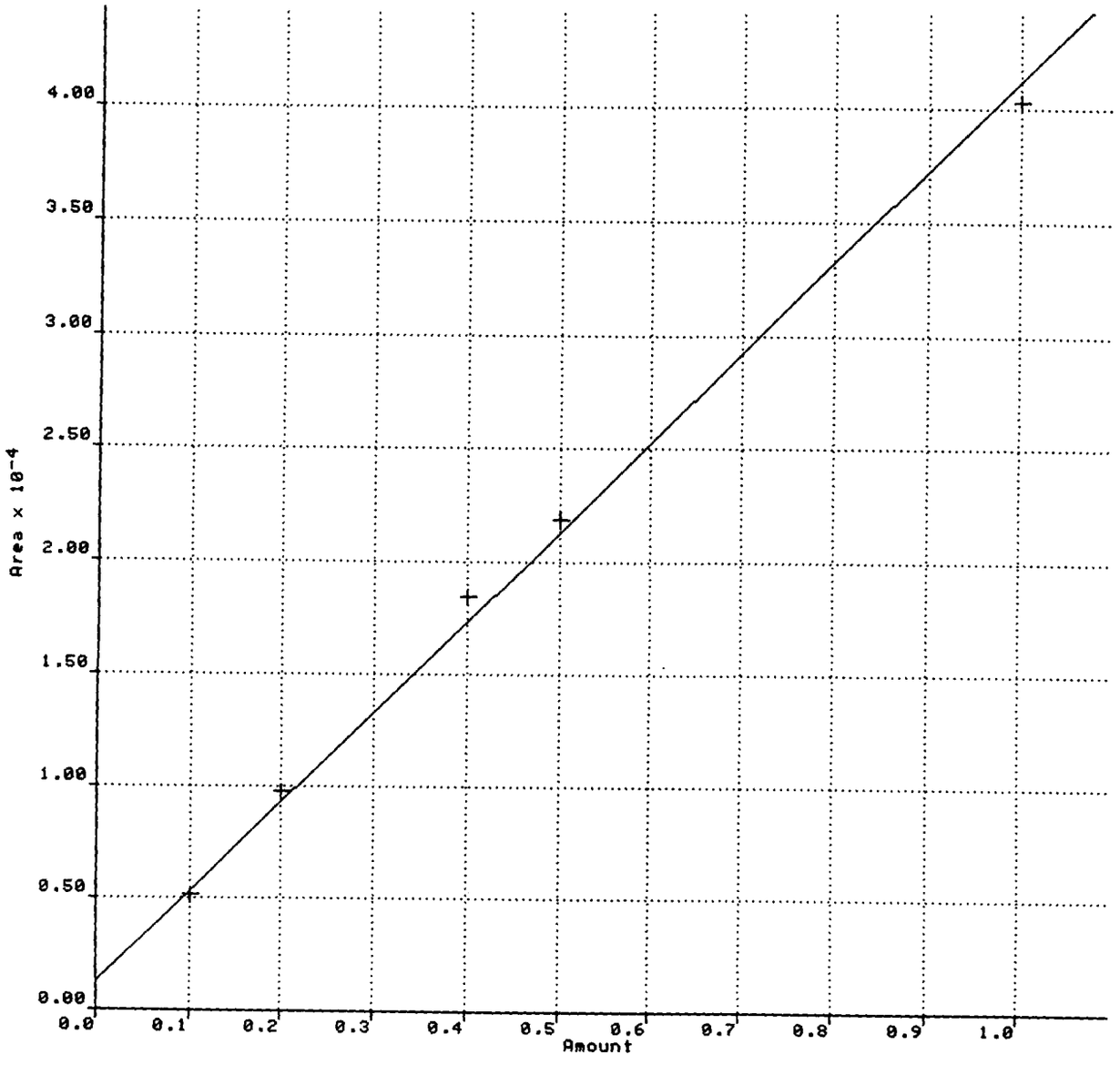
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1016-4
Date: 8-MAY-1997 11:17:18.64
Linear fit, Origin Treament....Use.
K0: 1.7618E+03 K1: 6.3836E+04
Coeff. of determination: 0.9979

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	8135	0.10000	
0.20 AR1016/1260	15196	0.20000	
0.40 AR1016/1260	28811	0.40000	
0.50 AR1016/1260	34337	0.50000	
1.0 AR1016/1260	64531	1.0000	



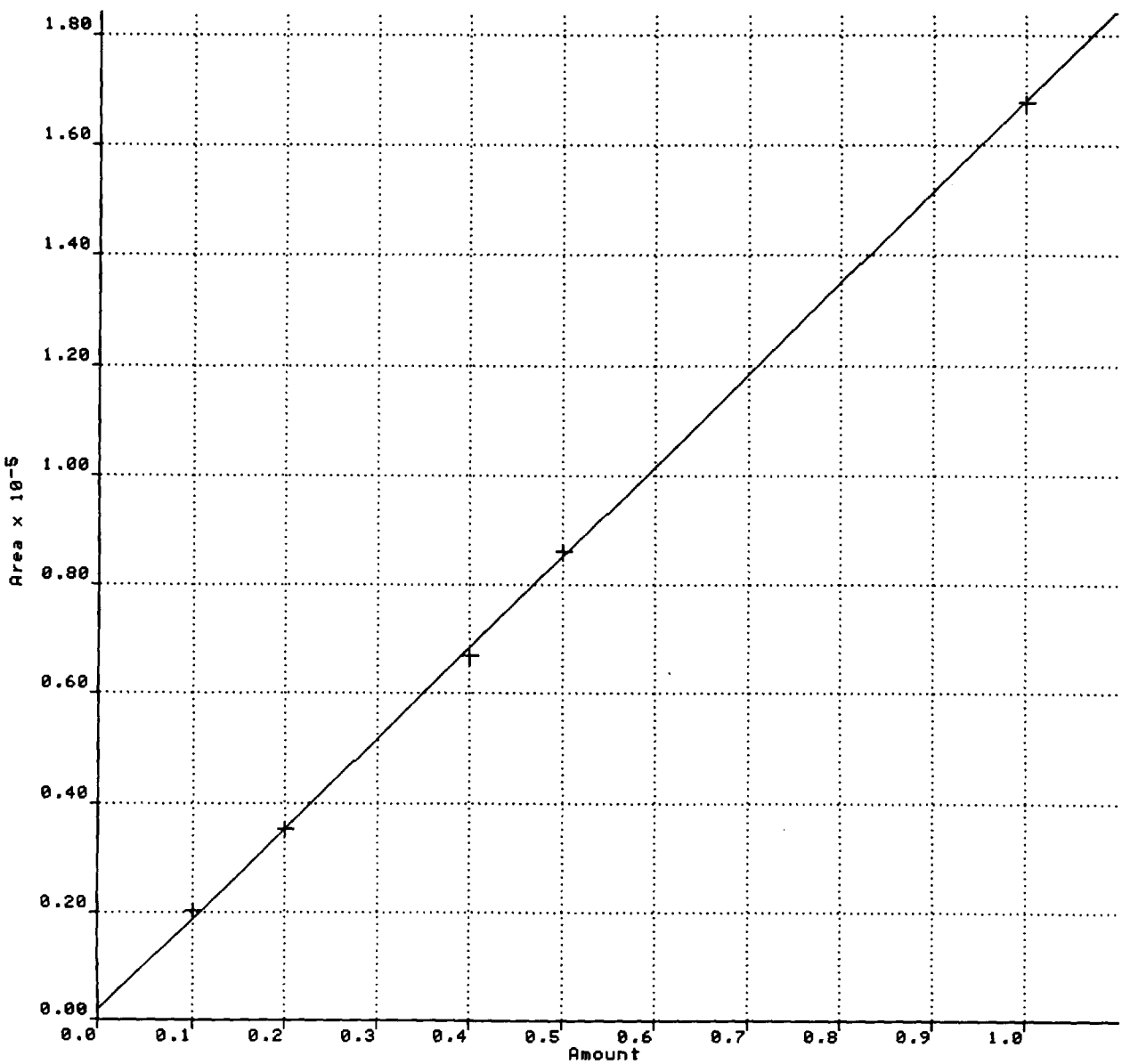
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1016-5
Date: 8-MAY-1997 11:17:19.07
Linear fit, Origin Treament....Use.
K0: 1.2921E+03 K1: 3.9893E+04
Coeff. of determination: 0.9963

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	5139	0.10000	
0.20 AR1016/1260	9728	0.20000	
0.40 AR1016/1260	18461	0.40000	
0.50 AR1016/1260	21894	0.50000	
1.0 AR1016/1260	40296	1.0000	



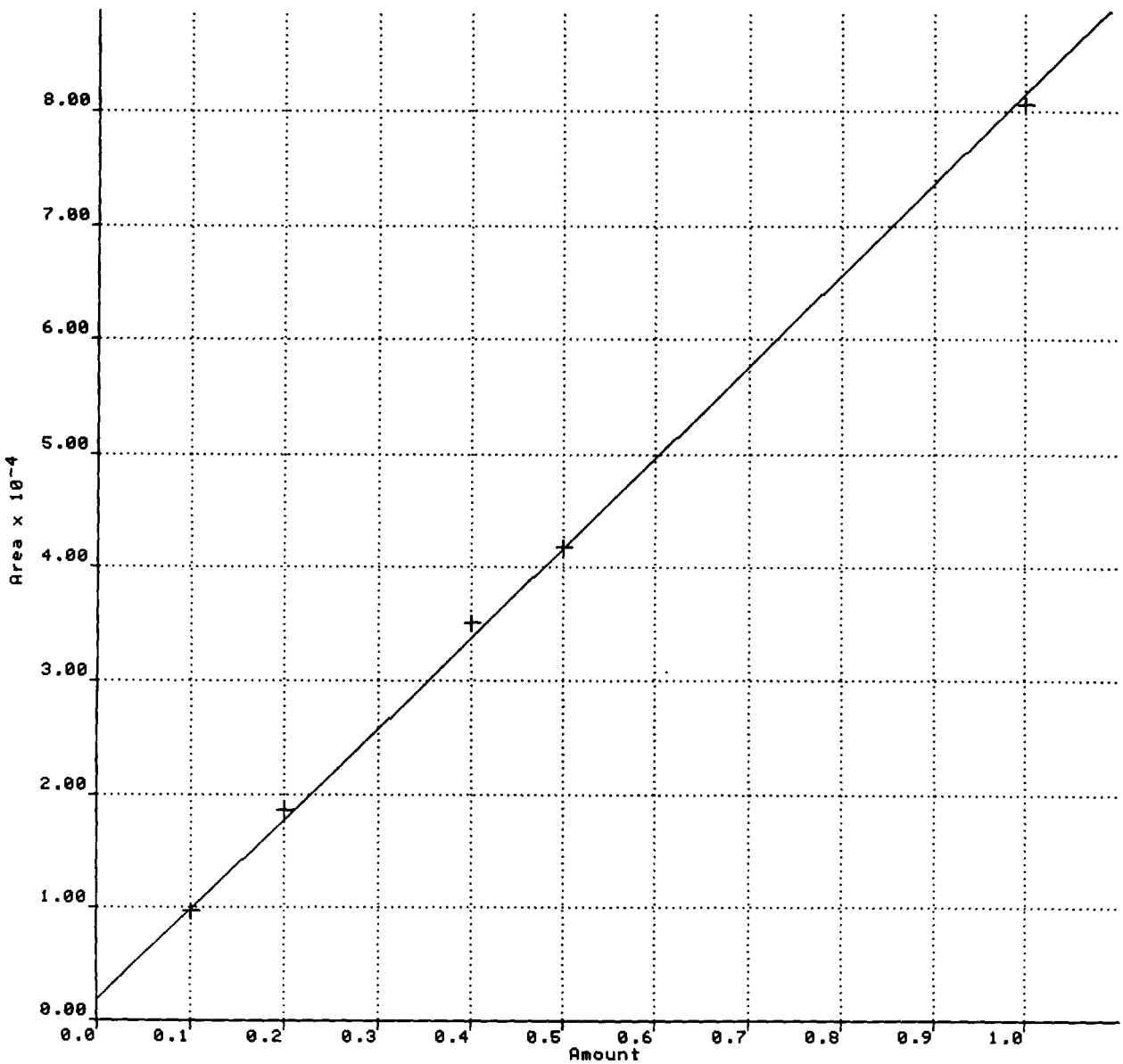
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1260-1
Date: 8-MAY-1997 11:17:19.57
Linear fit, Origin Treament....Use.
K0: 1.7261E+03 K1: 1.6633E+05
Coeff. of determination: 0.9995

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	20182	0.10000	
0.20 AR1016/1260	35283	0.20000	
0.40 AR1016/1260	66927	0.40000	
0.50 AR1016/1260	86193	0.50000	
1.0 AR1016/1260	167696	1.0000	



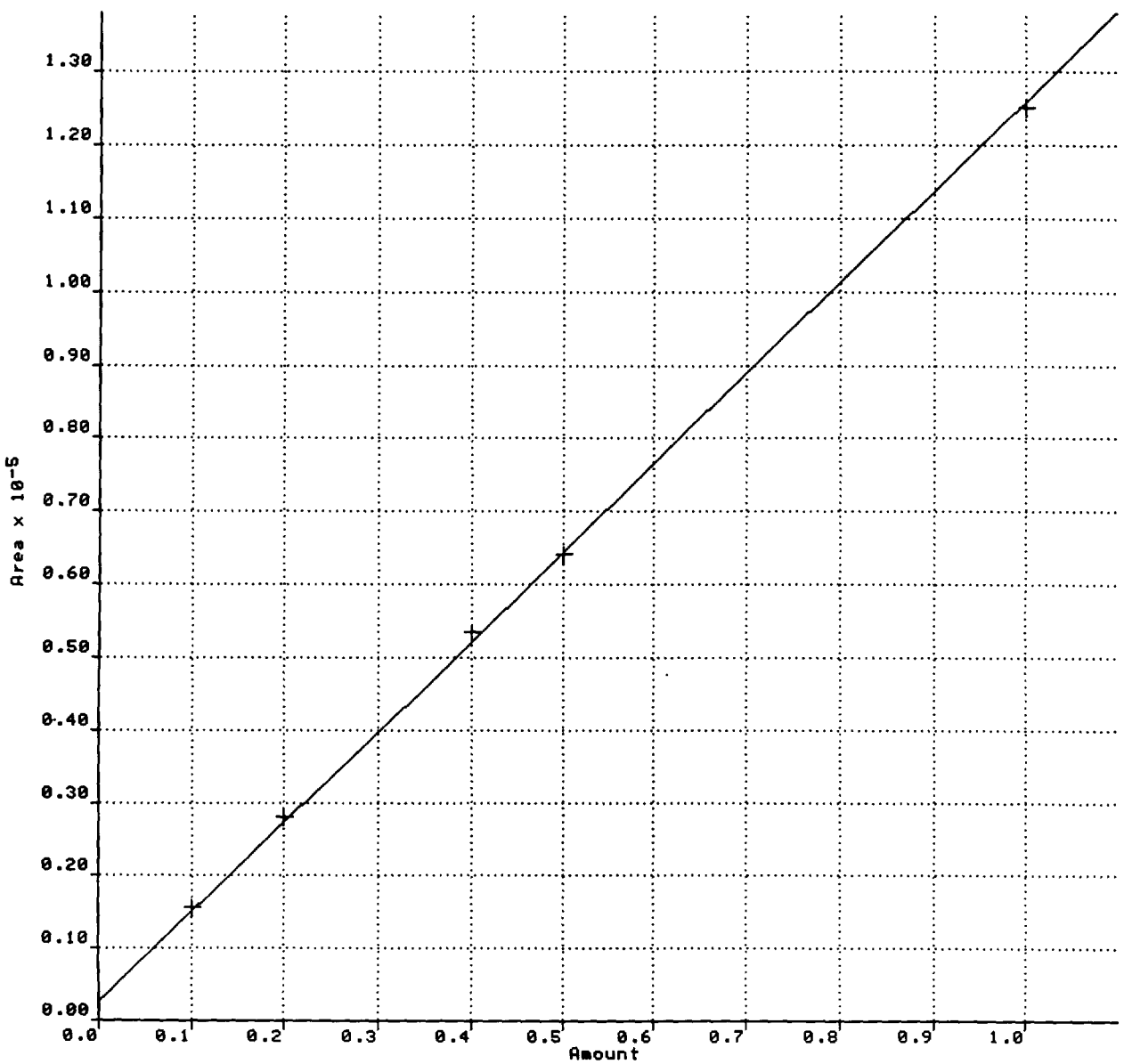
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1260-2
Date: 8-MAY-1997 11:17:20.00
Linear fit, Origin Treament....Use.
K0: 1.7687E+03 K1: 7.9770E+04
Coeff. of determination: 0.9988

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	9811	0.10000	
0.20 AR1016/1260	18562	0.20000	
0.40 AR1016/1260	35166	0.40000	
0.50 AR1016/1260	41944	0.50000	
1.0 AR1016/1260	80624	1.0000	



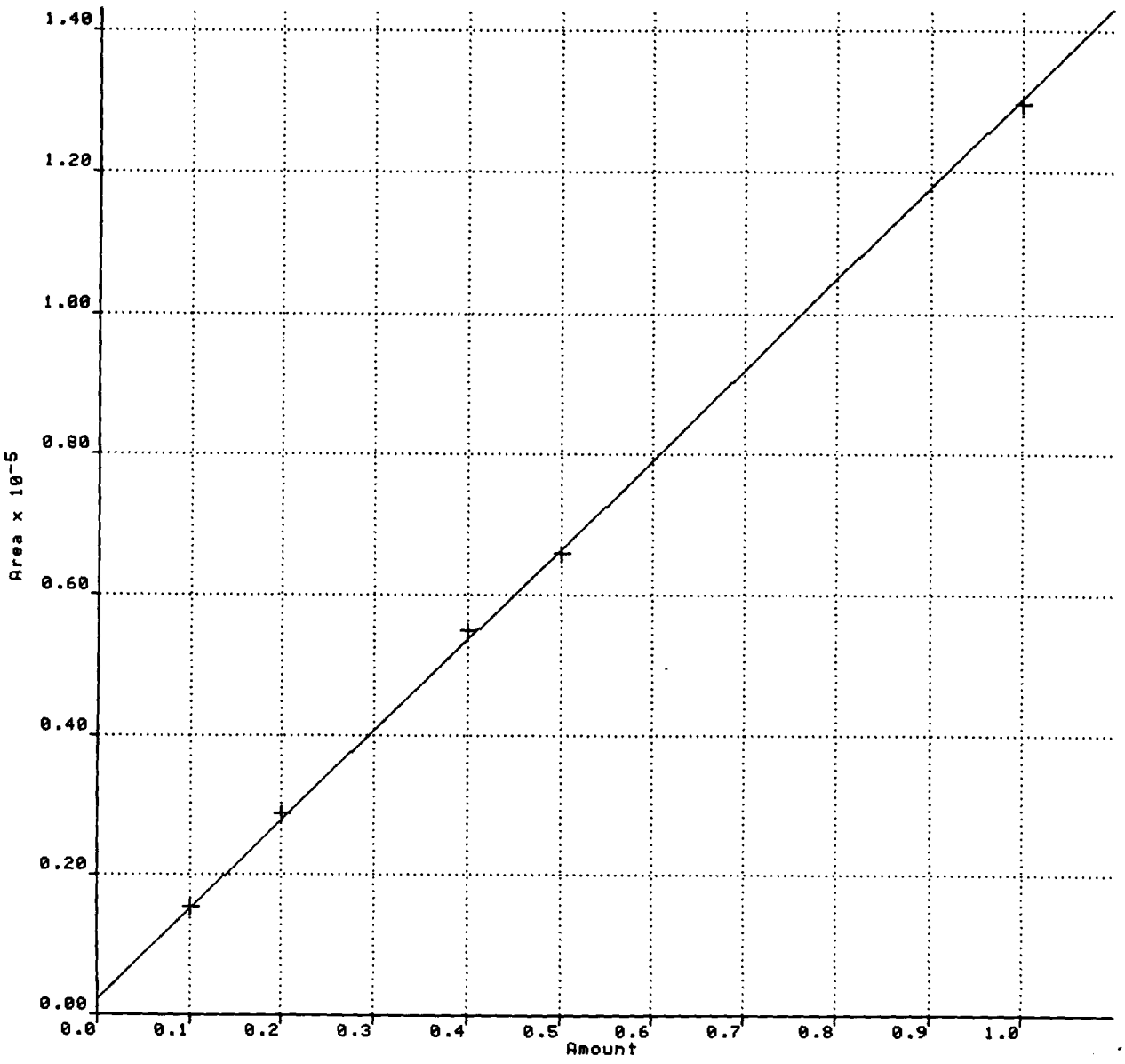
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1260-3
Date: 8-MAY-1997 11:17:20.41
Linear fit, Origin Treament....Use.
K0: 2.4799E+03 K1: 1.2348E+05
Coeff. of determination: 0.9994

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	15720	0.10000	
0.20 AR1016/1260	28094	0.20000	
0.40 AR1016/1260	53468	0.40000	
0.50 AR1016/1260	64190	0.50000	
1.0 AR1016/1260	125064	1.0000	



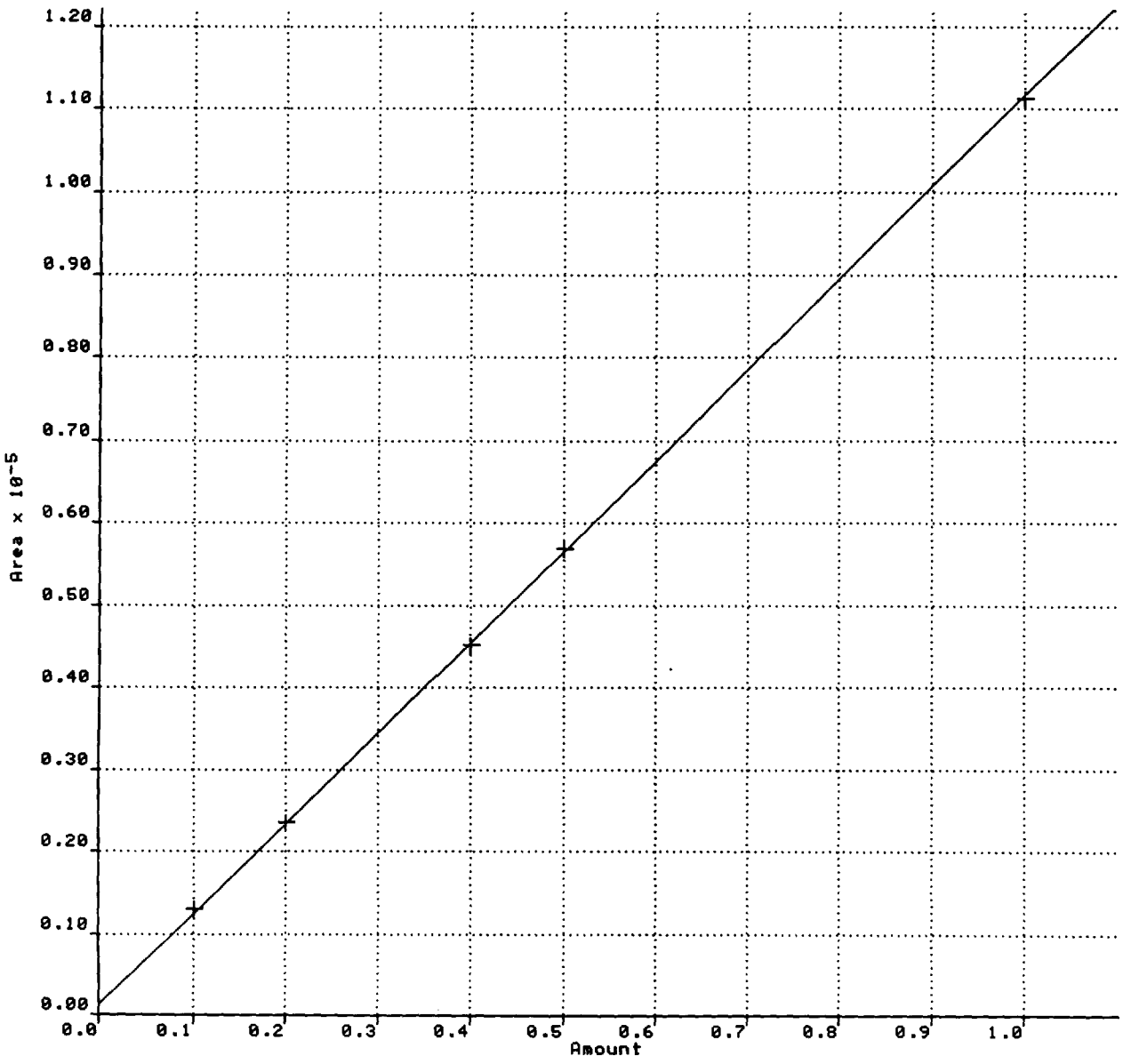
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1260-4
Date: 8-MAY-1997 11:17:20.83
Linear fit, Origin Treament....Use.
K0: 2.0728E+03 K1: 1.2838E+05
Coeff. of determination: 0.9995

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	15466	0.10000	
0.20 AR1016/1260	28773	0.20000	
0.40 AR1016/1260	54917	0.40000	
0.50 AR1016/1260	65977	0.50000	
1.0 AR1016/1260	129736	1.0000	



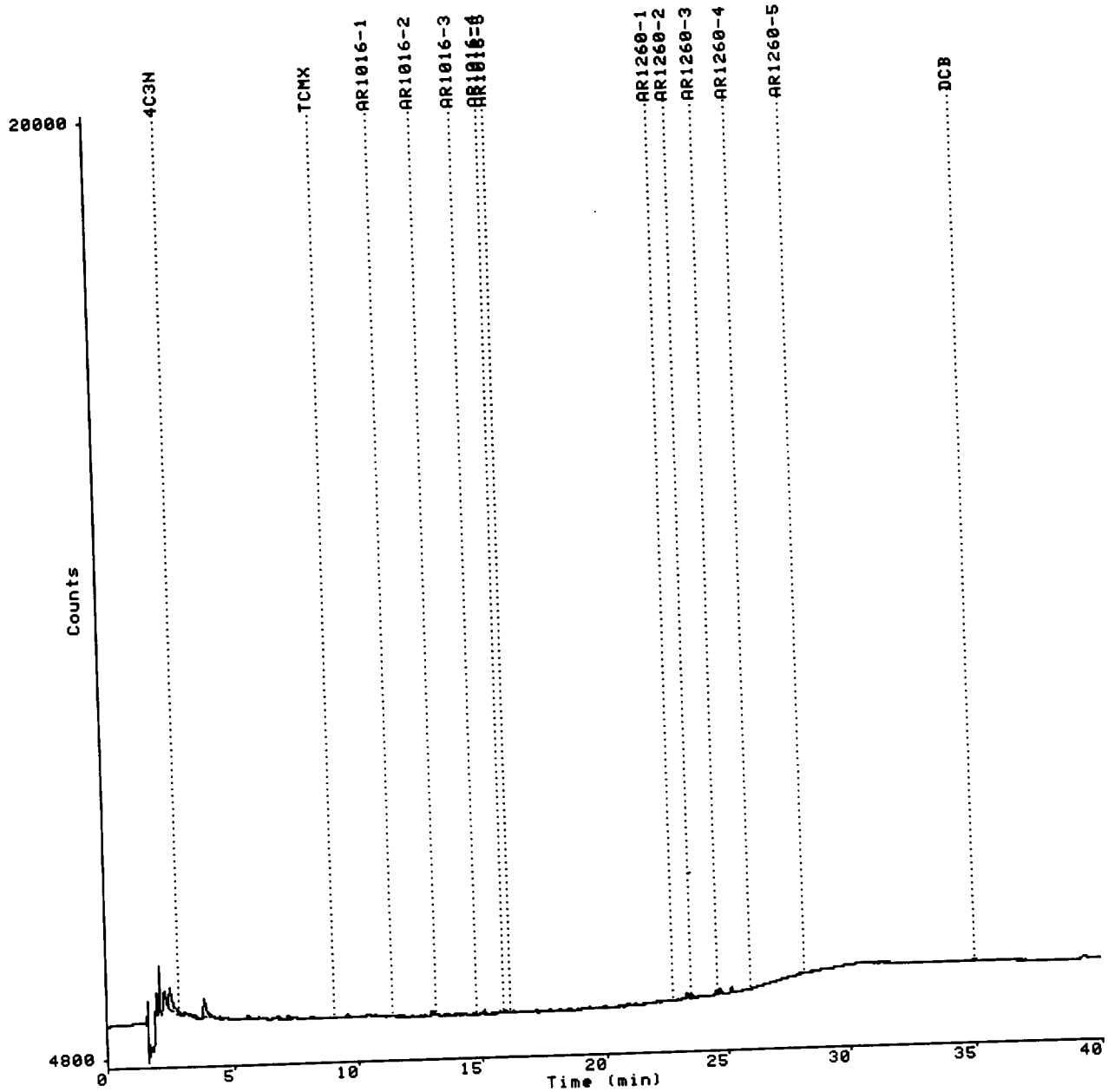
Method: DKB0:[NEARY]11_AR1660_0507.MET;11
Component: AR1260-5
Date: 8-MAY-1997 11:17:21.31
Linear fit, Origin Treament....Use.
K0: 1.1672E+03 K1: 1.1042E+05
Coeff. of determination: 0.9998

Standard Sample	Component Area	Component Mass	% Rel. St. Dev.
0.10 AR1016/1260	13050	0.10000	
0.20 AR1016/1260	23525	0.20000	
0.40 AR1016/1260	45111	0.40000	
0.50 AR1016/1260	57035	0.50000	
1.0 AR1016/1260	111215	1.0000	



Run Number..... 1
Sample Name..... HEXANE
Run Date..... 7-MAY-1997 17:07:29
Raw File..... 11_0507_001
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



HEXANE

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: HEXANE Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_001 Analysis Date: 7-MAY-1997 17:07:29

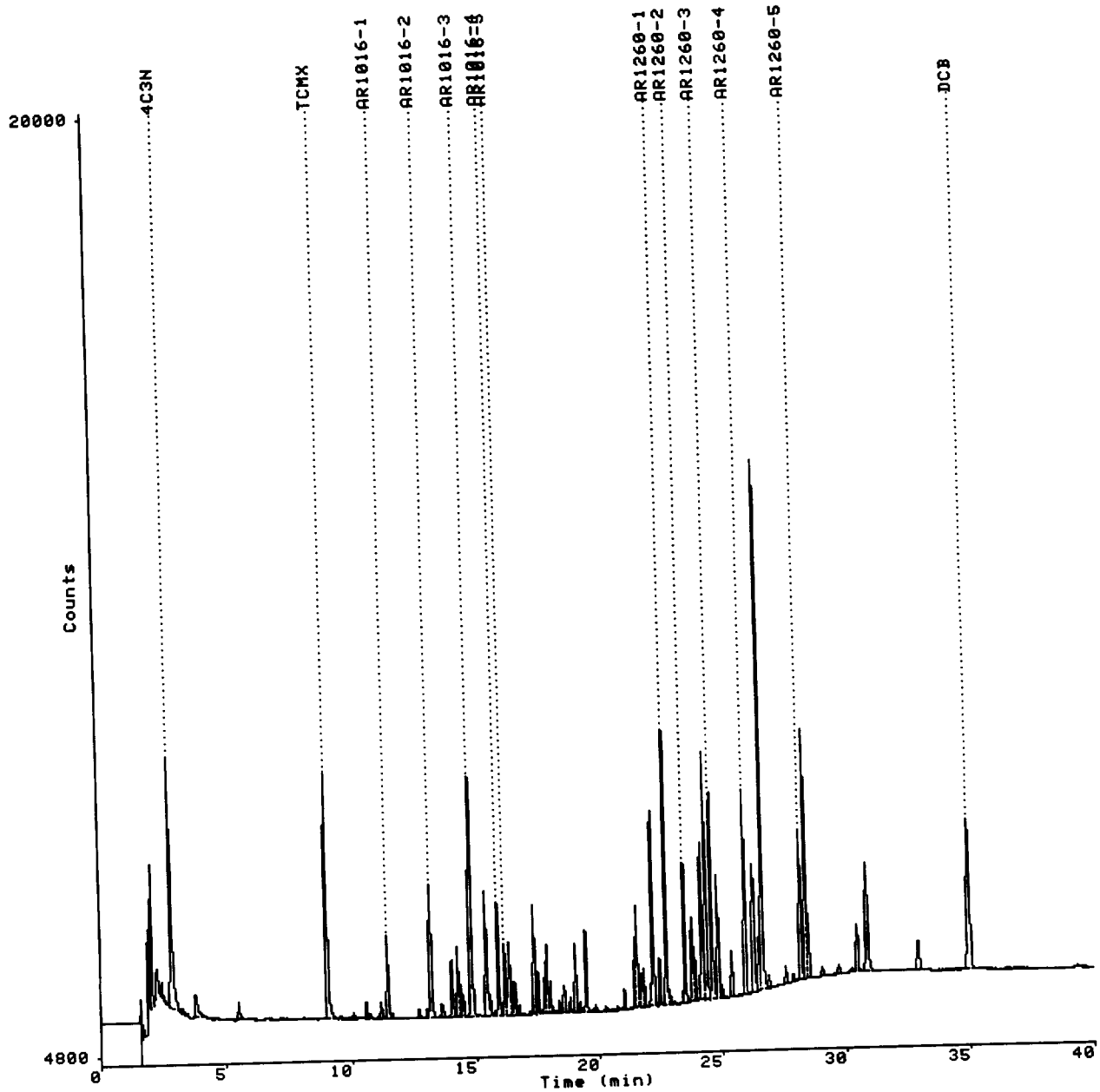
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	2.50		2951	BB	1
	3.87		2670	BB	2
	13.06		529	BB	3
	23.32		661	BV	4
AR1260-3	24.66	-0.0157	543	VB	5

Average result...0.00000 UG/ML

Run Number..... 1 End of Report.

Run Number..... 2
Sample Name..... 0.1UG/ML AR1016/1260
Run Date..... 7-MAY-1997 17:53:47
Raw File..... 11_0507_002
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



0.1UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.1UG/ML AR1016/126 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_002 Analysis Date: 7-MAY-1997 17:53:47

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	2.48		1240	BB	1
4C3N	2.85	0.00937	21629	BE	2
	3.84		3438	BB	3
	5.54		1323	BB	4
TCMX	9.05	0.00373	19114	BB	5
	10.60		1115	BV	6
	11.18		1189	BV	7
AR1016-1	11.44	0.0950	6015	VE	8
	12.69		643	BB	9
	13.04		729	VV	10
AR1016-2	13.19	0.0988	12260	VB	11
	13.63		1178	BB	12
	14.05		4005	BV	13
	14.28		5113	VV	14
	14.36		1841	VV	15
	14.50		1392	VB	16
AR1016-3	14.84	0.103	25893	BB	17
	15.43		10659	BE	18
	15.61		623	EV	19
AR1016-4	15.94	0.0998	8135	VV	20
AR1016-5	16.19	0.0964	5139	VV	21
	16.38		6984	VV	22
	16.49		2025	VV	23
	16.60		2237	VV	24
	16.77		631	VB	25
	17.40		8865	BV	26
	17.56		2931	VB	27
	17.82		2297	BV	28
	17.92		4848	VV	29
	18.05		2290	VV	30
	18.43		806	BV	31
	18.62		2669	VV	32
	18.87		1037	VB	33
	19.09		4769	BV	34
	19.27		773	VV	35
	19.52		5637	VB	36
	21.06		1339	BB	37
	21.50		3377	BV	38
	21.58		7695	VV	39
	21.70		2181	VV	40
	21.80		2279	VV	41
	21.86		2174	VB	42
	22.24		15970	BV	43
	22.50		3340	VV	44
AR1260-1	22.76	0.111	20182	VE	45
	22.88		752	EV	46
AR1260-2	23.51	0.101	9811	BB	47
	23.80		6292	BV	48
	23.90		3544	VB	49
	24.21		14338	BV	50

Sample ID: 0.1UG/ML AR1016/126 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_002 Analysis Date: 7-MAY-1997 17:53:47

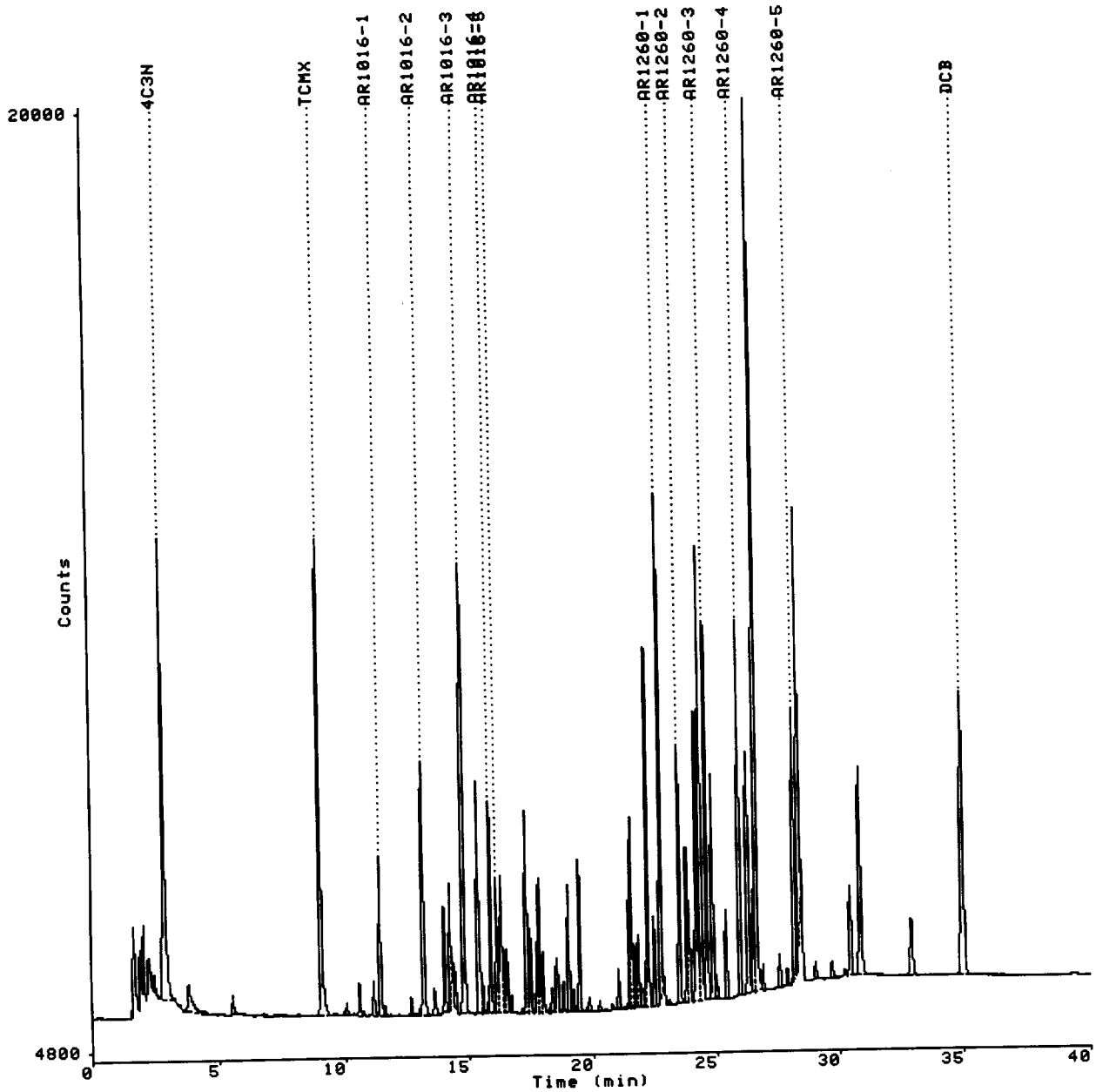
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	24.37		19168	VV	51
AR1260-3	24.61	0.107	15720	VV	52
	24.84		9140	VE	53
	24.99		844	EV	54
	25.38		3221	BB	55
AR1260-4	25.93	0.104	15466	BB	56
	26.27		13698	BV	57
	26.46		3923	VV	58
	26.62		40590	VE	59
	26.87		1209	EB	60
	27.55		1274	BB	61
	27.87		695	BV	62
AR1260-5	28.16	0.108	13050	VV	63
	28.37		22708	VV	64
	28.48		3692	VB	65
	29.04		739	BB	66
	29.71		788	BB	67
	30.46		4495	VB	68
	30.86		11439	BB	69
	32.93		3313	BB	70
DCB	35.01	0.00444	20227	BB	71

AR1016 average result...0.0986
AR1260 average result...0.106

Run Number..... 2 End of Report.

Run Number..... 3
Sample Name..... 0.2UG/ML AR1016/1260
Run Date..... 7-MAY-1997 18:40:03
Raw File..... 11_0507_003
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



0.2UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.2UG/ML AR1016/126 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_003 Analysis Date: 7-MAY-1997 18:40:03

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	2.48		1365	BB	1
4C3N	2.85	0.0201	42398	BB	2
	3.84		4907	BE	3
	5.54		1735	BB	4
TCMX	9.04	0.00968	37697	BB	5
	10.08		787	VB	6
	10.58		2402	BE	7
	11.16		2399	BV	8
AR1016-1	11.43	0.210	11785	VE	9
	11.61		643	EB	10
	12.68		1260	BB	11
AR1016-2	13.18	0.213	22822	VB	12
	13.62		2430	BB	13
	14.04		7854	BB	14
	14.27		6592	BB	15
	14.49		2131	BB	16
AR1016-3	14.83	0.209	48657	BB	17
	15.42		19763	BV	18
	15.60		1786	VV	19
	15.79		713	VV	20
AR1016-4	15.92	0.210	15196	VV	21
AR1016-5	16.18	0.211	9728	VV	22
	16.37		13293	VV	23
	16.48		4002	VV	24
	16.59		4374	VV	25
	16.76		1168	VB	26
	17.39		16625	BV	27
	17.54		5991	VV	28
	17.80		5010	VV	29
	17.91		9686	VV	30
	18.04		4407	VE	31
	18.42		1759	VV	32
	18.60		5458	VV	33
	18.85		2084	VV	34
	19.07		9106	VV	35
	19.25		1532	VV	36
	19.51		10714	VB	37
	19.89		958	VB	38
	20.30		673	BB	39
	21.05		2686	BB	40
	21.49		6361	BV	41
	21.57		14622	VV	42
	21.68		4297	VV	43
	21.79		4270	VV	44
	21.84		4459	VB	45
	22.14		2704	BV	46
	22.23		26783	VV	47
	22.48		6327	VB	48
AR1260-1	22.75	0.202	35283	BB	49
AR1260-2	23.50	0.211	18562	BV	50

Sample ID: 0.2UG/ML AR1016/126 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_003 Analysis Date: 7-MAY-1997 18:40:03

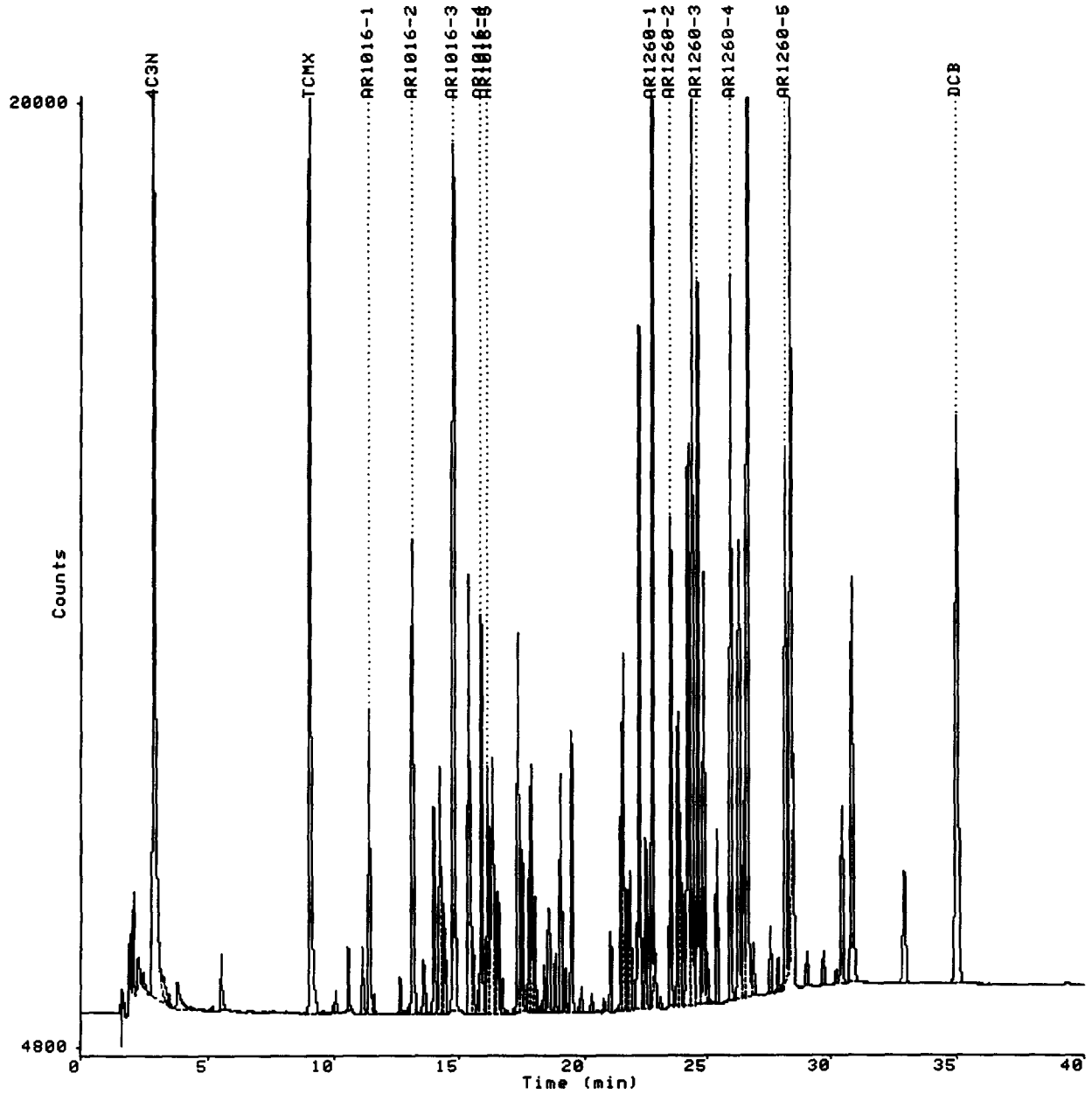
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	23.79		12043	VV	51
	23.89		6828	VV	52
	24.20		27020	VV	53
	24.35		35667	VV	54
AR1260-3	24.60	0.207	28094	VV	55
	24.83		16904	VE	56
	24.98		1564	EB	57
	25.36		6326	BB	58
AR1260-4	25.91	0.208	28773	BB	59
	26.25		25662	BV	60
	26.45		7496	VV	61
	26.60		77381	VE	62
	26.86		2037	EB	63
	27.54		2465	BB	64
	27.85		1300	BB	65
AR1260-5	28.15	0.202	23525	BB	66
	28.36		33508	BB	67
	29.03		1509	BB	68
	29.70		1472	BB	69
	30.23		585	BV	70
	30.44		8822	VV	71
	30.84		21949	VB	72
	32.92		6511	BB	73
DCB	34.99	0.0100	38867	BB	74

AR1016 average result...0.211
AR1260 average result...0.206

Run Number..... 3 End of Report.

Run Number..... 4
Sample Name..... 0.4UG/ML AR1016/1260
Run Date..... 7-MAY-1997 19:26:20
Raw File..... 11_0507_004
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



0.4UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.4UG/ML AR1016/126 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_004 Analysis Date: 7-MAY-1997 19:26:20

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	2.48		1166	BB	1
4C3N	2.85	0.0521	104588	BE	2
	3.28		3548	EV	3
	3.50		914	EB	4
	3.83		4547	BE	5
	5.54		4568	BB	6
TCMX	9.05	0.0221	76353	VE	7
	9.99		510	BV	8
	10.08		1645	VB	9
	10.59		4479	BB	10
	11.17		4812	BV	11
AR1016-1	11.43	0.425	22536	VE	12
	11.61		1309	EB	13
	12.69		2559	BV	14
AR1016-2	13.18	0.427	42649	VB	15
	13.62		4976	BE	16
	14.04		15722	BV	17
	14.28		19605	VV	18
	14.36		6602	VV	19
	14.49		5787	VB	20
AR1016-3	14.84	0.414	92317	BB	21
	15.43		37615	BV	22
	15.61		3603	VV	23
	15.79		1553	VV	24
AR1016-4	15.93	0.424	28811	VV	25
AR1016-5	16.19	0.430	18461	VV	26
	16.37		25437	VV	27
	16.48		7818	VV	28
	16.60		8685	VV	29
	16.76		2646	VE	30
	17.39		30901	BV	31
	17.55		10941	VB	32
	17.81		8743	BV	33
	17.91		18151	VV	34
	18.05		8220	VB	35
	18.42		3308	VV	36
	18.61		10393	VV	37
	18.86		4080	VB	38
	19.08		17130	BV	39
	19.26		3087	VE	40
	19.40		540	EV	41
	19.52		20183	VE	42
	19.89		1910	EB	43
	20.31		1381	BB	44
	20.79		898	BB	45
	21.06		5392	BB	46
	21.50		12367	BV	47
	21.57		27213	VV	48
	21.69		8312	VV	49
	21.80		6385	VV	50

Sample ID: 0.4UG/ML AR1016/126 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_004 Analysis Date: 7-MAY-1997 19:26:20

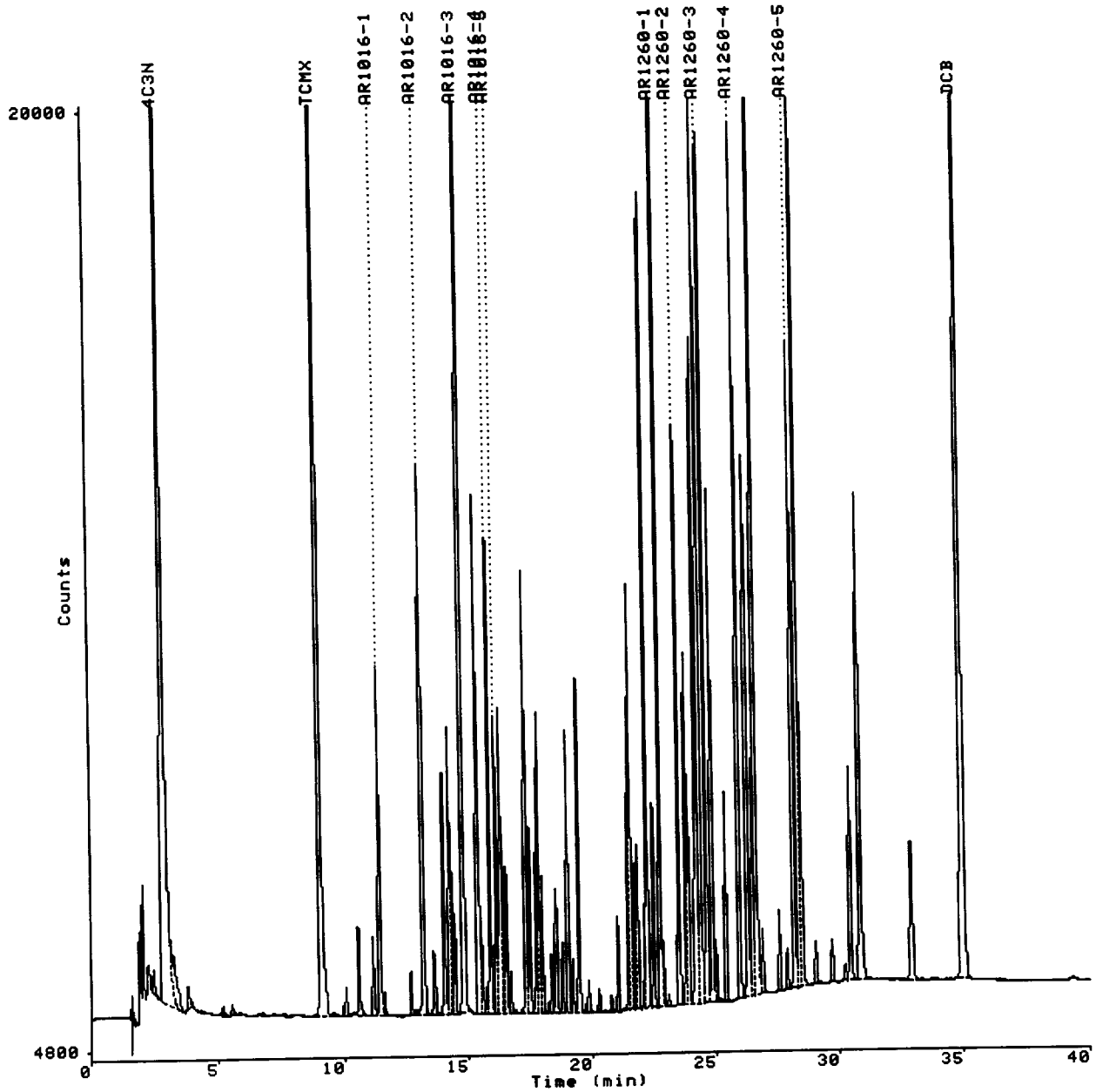
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	21.85		10367	VB	51
	22.24		55602	BV	52
	22.49		12143	VB	53
AR1260-1	22.76	0.392	66927	BB	54
	23.08		665	BB	55
AR1260-2	23.51	0.419	35166	BV	56
	23.79		23129	VV	57
	23.90		12965	VV	58
	24.20		51656	VV	59
	24.36		68641	VV	60
AR1260-3	24.60	0.413	53468	VV	61
	24.83		32522	VE	62
	24.98		3437	EV	63
	25.37		12534	VB	64
AR1260-4	25.92	0.412	54917	BV	65
	26.26		48853	VV	66
	26.45		14331	VV	67
	26.61		154079	VE	68
	26.86		4303	EB	69
	27.55		5134	BB	70
	27.86		2548	BB	71
AR1260-5	28.15	0.398	45111	BB	72
	28.36		63302	BB	73
	29.04		3024	BB	74
	29.70		3083	BB	75
	30.24		1277	BV	76
	30.45		17447	VV	77
	30.85		42726	VB	78
	32.92		13107	BB	79
DCB	35.00	0.0216	77453	BB	80

AR1016 average result...0.424
AR1260 average result...0.407

Run Number..... 4 End of Report.

Run Number..... 5
Sample Name..... 0.5UG/ML AR1016/1260
Run Date..... 7-MAY-1997 20:12:35
Raw File..... 11_0507_005
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



0.5UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00

PCB ANALYSIS BY GC/ECD

Sample ID: 0.5UG/ML AR1016/126 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_005 Analysis Date: 7-MAY-1997 20:12:35

Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	2.49		1847	BB	1
4C3N	2.85	0.101	200533	BE	2
	3.27		8896	EB	3
	3.83		2456	BB	4
	5.19		586	BB	5
	5.54		1007	BV	6
TCMX	9.05	0.0437	143985	VE	7
	9.99		606	BV	8
	10.08		2010	VB	9
	10.59		6831	BB	10
	11.17		5843	BV	11
AR1016-1	11.44	0.513	26973	VE	12
	11.62		1606	EB	13
	12.69		3123	BV	14
AR1016-2	13.19	0.517	51012	VB	15
	13.63		6092	BE	16
	14.05		19159	VV	17
	14.28		22828	VV	18
	14.36		8466	VV	19
	14.50		7017	VB	20
AR1016-3	14.84	0.501	110688	BB	21
	15.43		44792	BV	22
	15.61		4280	VV	23
	15.79		1897	VV	24
AR1016-4	15.93	0.510	34337	VV	25
AR1016-5	16.19	0.516	21894	VV	26
	16.38		30357	VV	27
	16.49		9254	VV	28
	16.60		10403	VV	29
	16.77		3212	VE	30
	17.40		36971	VV	31
	17.56		13612	VV	32
	17.81		11280	VV	33
	17.92		21822	VV	34
	18.05		9824	VE	35
	18.28		653	EV	36
	18.42		4150	VV	37
	18.61		12614	VV	38
	18.86		4993	VV	39
	19.08		20437	VV	40
	19.26		3758	VE	41
	19.40		661	EV	42
	19.52		24066	VE	43
	19.90		2318	EB	44
	20.31		1653	BB	45
	20.80		1180	BV	46
	21.06		6679	VB	47
	21.50		14838	VV	48
	21.58		32517	VV	49
	21.70		9924	VV	50

Sample ID: 0.5UG/ML AR1016/126 Instrument: V3400#4B 30M 0.53mm RTX-35 2uL INJ M
Datafile: 11_0507_005 Analysis Date: 7-MAY-1997 20:12:35

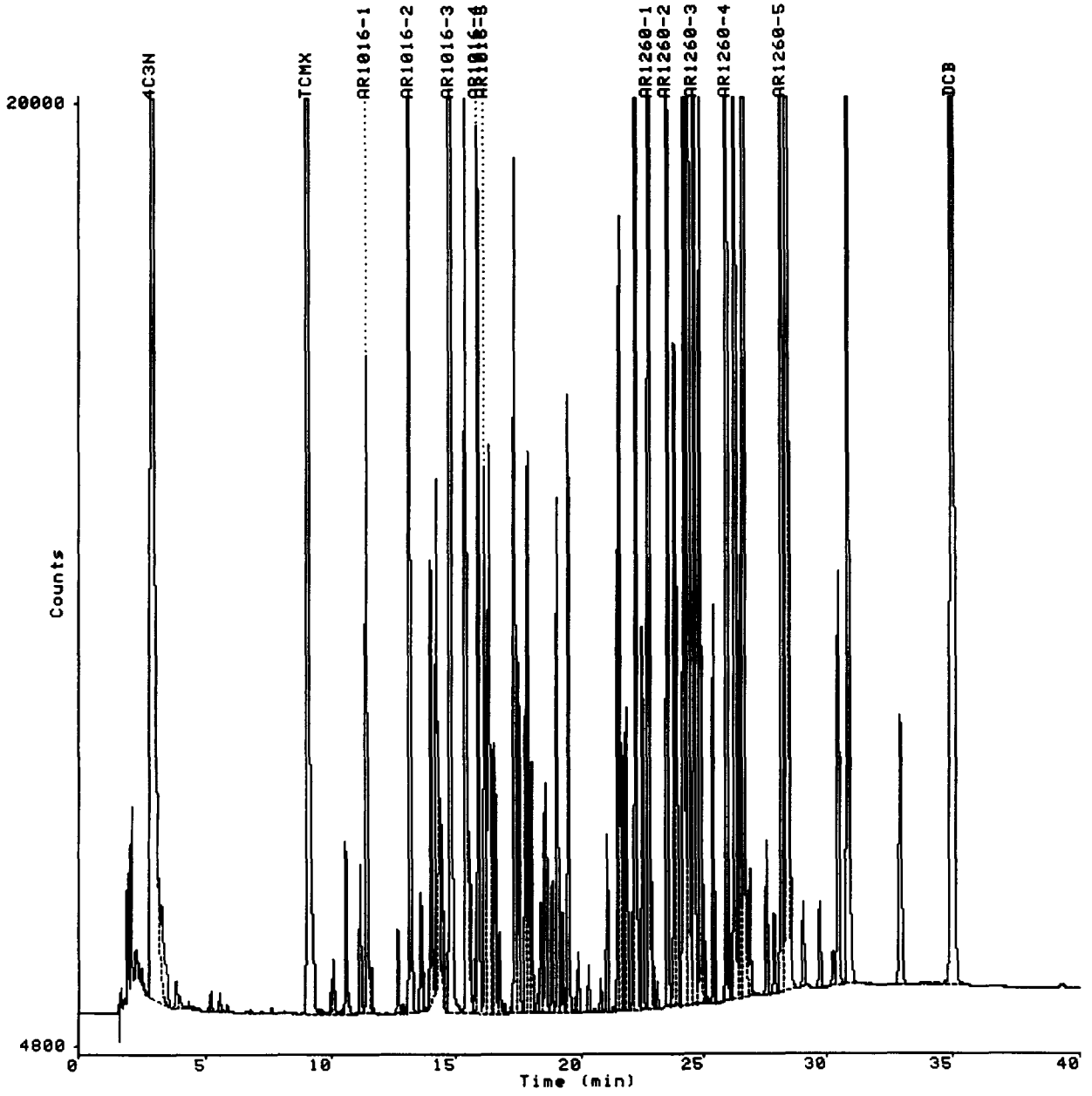
Peak Name	R.T.(min)	UG/ML	Peak Area	BL	PEAK NO.
	21.80		8634	VV	51
	21.86		11477	VV	52
	22.15		6438	VV	53
	22.24		60387	VV	54
	22.49		14664	VV	55
AR1260-1	22.76	0.508	86193	VE	56
	22.88		3201	EV	57
	23.08		953	EB	58
AR1260-2	23.51	0.504	41944	BV	59
	23.80		27228	VV	60
	23.90		15605	VV	61
	24.20		61691	VV	62
	24.36		82603	VV	63
AR1260-3	24.61	0.500	64190	VV	64
	24.84		38856	VE	65
	24.99		4107	EV	66
	25.37		15055	VB	67
AR1260-4	25.92	0.498	65977	BV	68
	26.26		58643	VV	69
	26.46		17185	VV	70
	26.61		186389	VE	71
	26.87		5645	EB	72
	27.55		6199	BB	73
	27.86		3166	BB	74
AR1260-5	28.16	0.506	57035	BV	75
	28.37		101139	VV	76
	28.47		16383	VB	77
	29.04		3713	BB	78
	29.71		3853	BB	79
	30.24		1574	BV	80
	30.45		21128	VV	81
	30.85		51652	VB	82
	32.93		16275	BB	83
DCB	35.00	0.0414	143320	BB	84

AR1016 average result...0.511
AR1260 average result...0.503

Run Number..... 5 End of Report.

Run Number..... 6
Sample Name..... 1.0UG/ML AR1016/1260
Run Date..... 7-MAY-1997 20:58:54
Raw File..... 11_0507_006
Method Name..... 11_AR1660_0507
Method Type..... Linear

V3400#4B 30M 0.53mm RTX-35 2uL INJ METHOD 8081



1.0UG/ML AR1016/1260

Volume Injected... 2.0uL
Standard Amount... 1.00 ML
Dilution Factor... 1

Entered Conversion Factor..1.00
Entered Sample Amount.....1.00