40172

PELA 58

TECHNICAL MEMORANDUM NO. 3

FOR REMEDIAL INVESTIGATION/FEASIBILITY STUDY

CITY DISPOSAL CORPORATION LANDFILL

(DUNN LANDFILL)

(PELA Reference No. 495201)

Appendix B.

Results of Analyses of Soil Samples and Ground-Water Samples - Technical Report B

Volume II of III, Part 1 of 2

CA1379-CA1381, CA1383

CA1393-CA1397

CA2136-CA2143, CA2149-CA2151

February, 1990

P. E. LaMoreaux & Associates, Inc.

Technical Report

for

CITY DISPOSAL CORPORATION LANDFILL

VOLUME II OF III

Chain of Custody Data Required for ETC Data Management Summary Reports

CA1379-CA1381,CA1383, WASTE MANAGEMENT, INC 405
CA1393-CA1397,
CA2136-CA2143,CA2149-CA2151

ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*	*Time*	*Elapsed Hours*

Swep T. Davis

President

ETC

SEMIVOLATILES DATA

ETC

QC SUMMARY

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	QC70081C	86	75	139	71	68	58		0
02	CA1381CS	83	74	108	50	49	49		0
03	CA1381CR	76	64	120	48	35	58		0
04	CA1379C	77	70	121	63	67	51		0
05	CA1380C	77	71	112	45	39	47		0
06	CA1381C	84	71	143 *	49	44	48		1
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d5	(10- 94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values

* Values outside QC limits

D Surrogates diluted out

525

FORM II SV -1 1/87 Rev.

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	QC70082C	91	75	119	39	66	88		0
02	CA1859CS	93	85	112	45	55	96		0
03	CA1859CR	90	78	108	41	57	85		0
04	CA1893C	92	78	117	9 *	48	84		1
05	CA1894C	100	87	135	30	45	76		0
06	CA1859C	102	77	110	38	58	68		0
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-114)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)
S3 (TPH) = Terphenyl-d14	(33-141)
S4 (PHL) = Phenol-d5	(10- 94)
S5 (2FP) = 2-Fluorophenol	(21-100)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside QC limits
D Surrogates diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	QC70086C	83	77	113	28	56	60		0
02	CA1895C	86	84	118	30	50	63		0
03	CA1896C	86	85	117	24	39	69		0
04	CA1897C	80	80	120	38	43	80		0
05	CA2136C	76	78	121	34	51	68		0
06	CA2137C	84	86	124	33	54	66		0
07	CA2138C	74	76	117	23	37	59		0
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-114)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)
S3 (TPH) = Terphenyl-d14	(33-141)
S4 (PHL) = Phenol-d5	(10- 94)
S5 (2FP) = 2-Fluorophenol	(21-100)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside QC limits
D Surrogates diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ETCNJ Contract:

Lab Code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	QC70087C	84	82	133	66	74	61		0
02	CA1907CR	90	88	126	60	63	63		0
03	CA2139C	82	83	78	4 *	1 *	0 *		3
04	CA1907CS	83	75	125	71	75	78		0
05	CA1907C	79	70	129	75	75	76		0
06	CA2140C	76	70	104	60	61	59		0
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-114)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)
S3 (TPH) = Terphenyl-d14	(33-141)
S4 (PHL) = Phenol-d5	(10- 94)
S5 (2FP) = 2-Fluorophenol	(21-100)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside QC limits
D Surrogates diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ETCNJ . Contract: ..

Lab Code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	QC87921C	76	79	114	39	56	77		0
02	CA2139C	74	75	109	0 *	1 *	20		2
03	CA2273C	76	72	113	34	47	64		0
04	CA2273CS	76	79	105	36	45	66		0
05	CA2273CR	81	75	110	36	49	75		0
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-114)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)
S3 (TPH) = Terphenyl-d14	(33-141)
S4 (PHL) = Phenol-d5	(10- 94)
S5 (2FP) = 2-Fluorophenol	(21-100)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values

* Values outside QC limits

D Surrogates diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	QC70092C	71	65	118	68	70	50		0
02	CA1889C	67	63	116	74	69	56		0
03	CA1890C	73	69	118	71	71	57		0
04	CA1892C	77	74	113	65	63	55		0
05	CA1908C	88	89	141	73	78	48		0
06	CA2141C	70	64	112	74	77	54		0
07	CA2142C	66	59	99	66	70	66		0
08	CA2143C	90	88	97	62	65	55		0
09	CA2149C	81	75	106	71	70	52		0
10	CA2151C	71	70	107	71	76	61		0
11	CA1891C	76	73	112	36	41	33		0
12	CA2144C	73	73	97	55	63	70		0
13	CA2145C	79	80	78	2 *	0 *	0 *		3
14	CA2146C	76	78	88	4 *	1 *	0 *		3
15	CA2152C	77	77	114	76	80	58		0
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-114)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)
S3 (TPH) = Terphenyl-d14	(33-141)
S4 (PHL) = Phenol-d5	(10- 94)
S5 (2FP) = 2-Fluorophenol	(21-100)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values

* Values outside QC limits

D Surrogates diluted out

530

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	QC70098C	84	76	107	36	56	70		0
02	CA2150C	76	76	108	33	44	67		0
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-114)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)
S3 (TPH) = Terphenyl-d14	(33-141)
S4 (PHL) = Phenol-d5	(10- 94)
S5 (2FP) = 2-Fluorophenol	(21-100)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside QC limits
D Surrogates diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETCNJ Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - ETC RPD Sample No.: CA1381CS
OT 11/12/89

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC.
Phenol	204.082	0.000	112.274	55		12- 89
2-Chlorophenol	204.082	0.000	122.990	60		27-123
1,4-Dichlorobenzene	102.041	0.000	80.028	78		36- 97
N-Nitroso-di-n-prop.(1)	102.041	0.000	75.554	74		41-116
1,2,4-Trichlorobenzene	102.041	0.000	82.464	81		39- 98
4-Chloro-3-methylphenol	204.082	0.000	73.273	36		23- 97
Acenaphthene	102.041	0.000	79.493	78		46-118
4-Nitrophenol	204.082	0.000	120.476	59		10- 80
2,4-Dinitrotoluene	102.041	0.000	52.785	52		24- 96
Pentachlorophenol	204.082	0.000	32.517	16		9-103
Pyrene	102.041	0.000	82.366	81		26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	212.766	115.129	54		2		42	12- 89
2-Chlorophenol	212.766	123.410	58		4		40	27-123
1,4-Dichlorobenzene	106.383	77.624	73		7		28	36- 97
N-Nitroso-di-n-prop.(1)	106.383	74.105	70		6		38	41-116
1,2,4-Trichlorobenzene	106.383	80.705	76		6		28	39- 98
4-Chloro-3-methylphenol	212.766	92.767	44		19		42	23- 97
Acenaphthene	106.383	76.592	72		8		31	46-118
4-Nitrophenol	212.766	141.107	66		12		50	10- 80
2,4-Dinitrotoluene	106.383	62.502	59		13		38	24- 96
Pentachlorophenol	212.766	55.258	26		48		50	9-103
Pyrene	106.383	85.035	80		1		31	26-127

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

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

Comments: $32

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - ~~EPA~~ ETC Sample No.: CA1859CS
or 10/24/89

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC.
Phenol	200.000	0.000	80.260	40		12- 89
2-Chlorophenol	200.000	0.000	180.298	90		27-123
1,4-Dichlorobenzene	100.000	0.000	77.544	78		36- 97
N-Nitroso-di-n-prop.(1)	100.000	0.000	83.908	84		41-116
1,2,4-Trichlorobenzene	100.000	0.000	80.931	81		39- 98
4-Chloro-3-methylphenol	200.000	0.000	164.468	82		23- 97
Acenaphthene	100.000	0.000	82.656	83		46-118
4-Nitrophenol	200.000	0.000	59.438	30		10- 80
2,4-Dinitrotoluene	100.000	0.000	74.110	74		24- 96
Pentachlorophenol	200.000	0.000	134.711	67		9-103
Pyrene	100.000	0.000	102.586	103		26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	200.000	81.091	41		1		42	12- 89
2-Chlorophenol	200.000	151.068	76		18		40	27-123
1,4-Dichlorobenzene	100.000	76.620	77		1		28	36- 97
N-Nitroso-di-n-prop.(1)	100.000	70.146	70		18		38	41-116
1,2,4-Trichlorobenzene	100.000	78.867	79		3		28	39- 98
4-Chloro-3-methylphenol	200.000	154.779	77		6		42	23- 97
Acenaphthene	100.000	81.194	81		2		31	46-118
4-Nitrophenol	200.000	25.723	13		79	*	50	10- 80
2,4-Dinitrotoluene	100.000	72.856	73		2		38	24- 96
Pentachlorophenol	200.000	81.212	41		50		50	9-103
Pyrene	100.000	96.880	97		6		31	26-127

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

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of limits

RPD: 1 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

Comments: 533

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: CA1907C$

(1) 11-27-87

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC.
Phenol	208.333	0.000	142.452	68		12- 89
2-Chlorophenol	208.333	0.000	161.713	78		27-123
1,4-Dichlorobenzene	104.167	0.000	79.315	76		36- 97
N-Nitroso-di-n-prop.(1)	104.167	0.000	87.080	84		41-116
1,2,4-Trichlorobenzene	104.167	0.000	79.250	77		39- 98
4-Chloro-3-methylphenol	208.333	0.000	164.261	79		23- 97
Acenaphthene	104.167	0.000	87.149	84		46-118
4-Nitrophenol	208.333	0.000	100.578	48		10- 80
2,4-Dinitrotoluene	104.167	0.000	74.841	72		24- 96
Pentachlorophenol	208.333	0.000	157.179	75		9-103
Pyrene	104.167	0.000	81.310	78		26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	REC.
Phenol	208.333	134.212	64		6		42	12- 89
2-Chlorophenol	208.333	138.874	67		15		40	27-123
1,4-Dichlorobenzene	104.167	81.138	78		2		28	36- 97
N-Nitroso-di-n-prop.(1)	104.167	71.570	69		20		38	41-116
1,2,4-Trichlorobenzene	104.167	84.395	81		6		28	39- 98
4-Chloro-3-methylphenol	208.333	132.131	63		22		42	23- 97
Acenaphthene	104.167	89.253	86		2		31	46-118
4-Nitrophenol	208.333	97.375	47		3		50	10- 80
2,4-Dinitrotoluene	104.167	67.669	65		10		38	24- 96
Pentachlorophenol	208.333	84.376	41		60	*	50	9-103
Pyrene	104.167	82.941	80		2		31	26-127

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

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of limits

RPD: 1 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

Comments:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID: >G8653 Lab Sample ID: QC70082C

Date Extracted: 10/06/89 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed 10/13/89 Time Analyzed: 1424

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: GC/MS G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		CA1859CS	>G8654	10/13/89
02		CA1859CR	>G8655	10/13/89
03		CA1893C	>G8656	10/13/89
04		CA1894C	>G8657	10/13/89
05		CA1859C	>G8658	10/16/89
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

e: ETCNJ . Contract:

ode: Case No.: SAS No.: SDG No.:

File ID: >G8835 Lab Sample ID: QC70086C

te Extracted: 10/07/89 Extraction:(SepF/Cont/Sonc) SEPF

ate Analyzed 10/28/89 Time Analyzed: 0727

atrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: GC/MS G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		CA1895C	>G8836	10/28/89
02		CA1896C	>G8837	10/28/89
03		CA1897C	>G8838	10/28/89
04		CA2136C	>G8839	10/28/89
05		CA2137C	>G8840	10/28/89
06		CA2138C	>G8841	10/28/89
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

536

FORM IV SV 1/87 Rev.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID: >G9012 Lab Sample ID: QC70081C

Date Extracted: 10/04/89 Extraction:(SepF/Cont/Sonc) CONT

Date Analyzed 11/13/89 Time Analyzed: 1624

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: GC/MS G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		CA1381CS	>G9013	11/13/89
02		CA1381CR	>G9014	11/13/89
03		CA1379C	>G9015	11/13/89
04		CA1380C	>G9016	11/13/89
05		CA1381C	>G9017	11/13/89
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID: >G9041 Lab Sample ID: QC7008

Date Extracted: 10/11/89 Extraction:(SepF/Cont/Sonc) CONT

Date Analyzed 11/14/89 Time Analyzed: 2140

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: GC/MS G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		CA1907CR	>G9043	11/14/89
02		CA2139C	>G9045	11/15/89
03		CA1907CS	>G9077	11/16/89
04		CA1907C	>G9078	11/16/89
05		CA2140C	>G9079	11/16/89
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ETCNJ . Contract:

Lab Code: [redacted] Case No.: SAS No.: SDG No.:

Lab File ID: >G9051 Lab Sample ID: QC70092C

Date Extracted: 10/12/89 Extraction:(SepF/Cont/Sonc) CONT

Date Analyzed 11/15/89 Time Analyzed: 0618

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: GC/MS G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		CA1889C	>G9052	11/15/89
02		CA1890C	>G9053	11/15/89
03		CA1892C	>G9054	11/15/89
04		CA1908C	>G9055	11/15/89
05		CA2141C	>G9056	11/15/89
06		CA2142C	>G9057	11/15/89
07		CA2143C	>G9058	11/15/89
08		CA2149C	>G9059	11/15/89
09		CA2151C	>G9060	11/15/89
10		CA1891C	>G9061	11/15/89
11		CA2144C	>G9064	11/15/89
12		CA2145C	>G9065	11/15/89
13		CA2146C	>G9066	11/15/89
14		CA2152C	>G9067	11/15/89
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID: >G9105 Lab Sample ID: QC70098C

Date Extracted: 11/06/89 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed 11/17/89 Time Analyzed: 0301

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: GC/MS G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		CA2150C	>G9106	11/17/89
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC Corp. Contract: _____

Lab Code: Case No.: _____ SAS No.: SDG No.:

Lab File ID: >G8504 DFTPP Injection Date: 09/28/89

Instrument ID: GC/MS G DFTPP Injection Time: 1236

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	.4 (.7)1
69	Mass 69 relative abundance	59.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.1
197	Less than 1.0% of mass 198	.2
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	20.6
365	Greater than 1.00% of mass 198	2.0
441	Present, but less than mass 443	8.9
442	Greater than 40.0% of mass 198	62.4
443	17.0 - 23.0% of mass 442	12.0 (19.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	_____	BNASTDII	>G8505	09/28/89	1258
02	_____	BNA20	>G8527	09/28/89	1408
03	_____	BNA80	>G8528	09/28/89	1501
04	_____	BNA120	>G8529	09/28/89	1553
05	_____	BNA160	>G8530	09/28/89	1645
06	_____	_____	_____	_____	_____
07	_____	_____	_____	_____	_____
08	_____	_____	_____	_____	_____
09	_____	_____	_____	_____	_____
10	_____	_____	_____	_____	_____
11	_____	_____	_____	_____	_____
12	_____	_____	_____	_____	_____
13	_____	_____	_____	_____	_____
14	_____	_____	_____	_____	_____
15	_____	_____	_____	_____	_____
16	_____	_____	_____	_____	_____
17	_____	_____	_____	_____	_____
18	_____	_____	_____	_____	_____
19	_____	_____	_____	_____	_____
20	_____	_____	_____	_____	_____
21	_____	_____	_____	_____	_____
22	_____	_____	_____	_____	541

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC CORP Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: >G8651 DFTPP Injection Date: 10/13/89

Instrument ID.: G DFTPP Injection Time: 13:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30-60% of mass 198	53.2
68	Less than 2% of mass 69	.7(1.4)1
69	Mass 69 relative abundance	47.5
70	Less than 2% of mass 69	0.0(0.0)1
127	40-60% of mass 198	52.2
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5-9% of mass 198	6.9
275	10-30% of mass 198	22.2
365	Greater than 1% of mass 198	2.0
441	Present, but less than mass 443	9.8
442	Greater than 40% of mass 198	73.7
443	17-23% of mass 442	13.5(18.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNAstd	>G8652	10/13/89	13:30
02		QC70052C	>G8653		14:24
03		CA1859CS	>G8654		15:17
04		CA1859CR	>G8655		16:10
05		CA1893C	>G8656		17:03
06		CA1894C	>G8657		17:56
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC CORP Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: >G8675 DFTPP Injection Date: 10/16/89

Instrument ID.: 6 DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30-60% of mass 198	56.8
68	Less than 2% of mass 69	.9(1.3)
69	Mass 69 relative abundance	72.3
70	Less than 2% of mass 69	.3(.5)
127	40-60% of mass 198	55.2
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5-9% of mass 198	6.6
275	10-30% of mass 198	21.8
365	Greater than 1% of mass 198	2.2
441	Present,but less than mass 443	7.5
442	Greater than 40% of mass 198	54.3
443	17-23% of mass 442	10.4(19.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BWA544	>G8676	10/16/89	09:28
02		CA 1539C	>G8677	↓	10:49
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV 1/87 REV

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID: >G8789 DFTPP Injection Date: 10/26/89

Instrument ID: GC/MS G DFTPP Injection Time: 1207

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.2
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	61.4
70	Less than 2.0% of mass 69	.2 (.3)1
127	40.0 - 60.0% of mass 198	44.2
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	6.5
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 1.00% of mass 198	1.9
441	Present, but less than mass 443	8.5
442	Greater than 40.0% of mass 198	57.3
443	17.0 - 23.0% of mass 442	11.2 (19.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNASTDII	>G8790	10/26/89	1233
02		BNASTDV	>G8813	10/26/89	1449
03		BNASTDIV	>G8814	10/26/89	1545
04		BNASTDIII	>G8815	10/26/89	1641
05		BNASTDI	>G8816	10/26/89	1736
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

544

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID: >G8833 DFTPP Injection Date: 10/28/89

Instrument ID: GC/MS G DFTPP Injection Time: 0606

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.5
70	Less than 2.0% of mass 69	.0 (.0)1
127	40.0 - 60.0% of mass 198	40.6
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	6.6
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 1.00% of mass 198	2.0
441	Present, but less than mass 443	10.2
442	Greater than 40.0% of mass 198	72.0
443	17.0 - 23.0% of mass 442	13.5 (18.8)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNASTD11	>G8834	10/28/89	0631
02		QC70086C	>G8835	10/28/89	0727
03		CA1895C	>G8836	10/28/89	0822
04		CA1896C	>G8837	10/28/89	0917
05		CA1897C	>G8838	10/28/89	1012
06		CA2136C	>G8839	10/28/89	1107
07		CA2137C	>G8840	10/28/89	1203
08		CA2138C	>G8841	10/28/89	1258
09		QC70086CS	>G8842	10/28/89	1353
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

545

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC CORP Contract:_____

Lab Code: _____ Case No.: _____ SAS No.:_____ SDG No.:_____

Lab File ID:>G8947 DFTPP Injection Date: 11/08/89

Instrument ID.: G DFTPP Injection Time: 15:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30-60% of mass 198	49.5
68	Less than 2% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	58.8
70	Less than 2% of mass 69	.2(.3)1
127	40-60% of mass 198	43.7
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5-9% of mass 198	6.4
275	10-30% of mass 198	21.6
365	Greater than 1% of mass 198	2.1
441	Present,but less than mass 443	11.2
442	Greater than 40% of mass 198	80.1
443	17-23% of mass 442	15.6(19.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNA STD 50	> G 8948	11-08-89	1542
02		160	> G 8974		1637
03		120	> G 8975		1734
04		80	> G 8976		1830
05		40	> G 8977		1927
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

546

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC CORP　　Contract: ________

Lab Code: ______　　Case No.: ______　　SAS No.: ______　　SDG No.: ______

Lab File ID: >G9010　　DFTPP Injection Date: 11/13/89

Instrument ID.: G　　DFTPP Injection time: 14:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30-60% of mass 198	49.8
68	Less than 2% of mass 69	.3 (.5)1
69	Mass 69 relative abundance	59.3
70	Less than 2% of mass 69	0.0 (0.0)1
127	40-60% of mass 198	45.0
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5-9% of mass 198	6.6
275	10-30% of mass 198	21.1
365	Greater than 1% of mass 198	1.9
441	Present, but less than mass 443	10.1
442	Greater than 40% of mass 198	70.3
443	17-23% of mass 442	13.8 (19.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BxIA Std.	>G9011	11/13/89	15:09
02		QC70021C	>G9012	↓	16:24
03		CA1381CS	>G9013	↓	17:19
04		CA1381CR	>G9014	↓	18:15
05		CA1379C	>G9015	↓	19:11
06		CA1380C	>G9016	↓	20:08
07		CA1381C	>G9017	↓	21:03
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

547

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC CORP Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID:>G9035 DFTPP Injection Date: 11/14/89

Instrument ID.: G DFTPP Injection time: 16:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30-60% of mass 198	54.8
68	Less than 2% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	68.0
70	Less than 2% of mass 69	0.0(0.0)1
127	40-60% of mass 198	49.1
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5-9% of mass 198	6.5
275	10-30% of mass 198	18.1
365	Greater than 1% of mass 198	1.5
441	Present,but less than mass 443	5.9
442	Greater than 40% of mass 198	41.6
443	17-23% of mass 442	8.0(19.2)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNA STD 5D	> G 9036	11-14-89	1703
02		DC700870	> G 9041		2140
03		CA1907CR	> G 9043		2331
04		CA2139C	> G 9045		0122
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

548

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETCNJ Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID: >G9049 DFTPP Injection Date: 11/15/89

Instrument ID: GC/MS G DFTPP Injection Time: 0500

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	58.9
70	Less than 2.0% of mass 69	.3 (.4)1
127	40.0 - 60.0% of mass 198	45.4
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	21.4
365	Greater than 1.00% of mass 198	2.1
441	Present, but less than mass 443	8.3
442	Greater than 40.0% of mass 198	59.4
443	17.0 - 23.0% of mass 442	10.9 (18.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNASTDII	>G9050	11/15/89	0522
02		QC70092C	>G9051	11/15/89	0618
03		CA1889C	>G9052	11/15/89	0714
04		CA1890C	>G9053	11/15/89	0810
05		CA1892C	>G9054	11/15/89	0906
06		CA1908C	>G9055	11/15/89	1001
07		CA2141C	>G9056	11/15/89	1057
08		CA2142C	>G9057	11/15/89	1153
09		CA2143C	>G9058	11/15/89	1257
10		CA2149C	>G9059	11/15/89	1353
11		CA2151C	>G9060	11/15/89	1449
12		CA1891C	>G9061	11/15/89	1546
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC CORP Contract:_____

Lab Code: _____ Case No.: _____ SAS No.:_____ SDG No.:_____

Lab File ID:>G9062 DFTPP Injection Date: 11/15/89

Instrument ID.: 4 DFTPP Injection time: 16:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30-60% of mass 198	57.8
68	Less than 2% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	69.9
70	Less than 2% of mass 69	0.0(0.0)1
127	40-60% of mass 198	49.8
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5-9% of mass 198	6.3
275	10-30% of mass 198	19.0
365	Greater than 1% of mass 198	1.5
441	Present,but less than mass 443	5.9
442	Greater than 40% of mass 198	43.4
443	17-23% of mass 442	8.2(19.0)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNA STD 50	2G 9063	11-15-89	1702
02		CA2144	2G 9064		1758
03		CA2145	2G 9065		1854
04		CA2146	2G 9066		1949
05		CA2152	2G 9067	↓	2044
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC CORP Contract:_____

Lab Code: _____ Case No.: _____ SAS No.:_____ SDG No.:_____

Lab File ID:>G9075 DFTPP Injection Date: 11/16/89

Instrument ID.: G DFTPP Injection time: 14:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30-60% of mass 198	46.3
68	Less than 2% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	57.5
70	Less than 2% of mass 69	.3(.5)1
127	40-60% of mass 198	44.6
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5-9% of mass 198	6.6
275	10-30% of mass 198	21.5
365	Greater than 1% of mass 198	2.1
441	Present,but less than mass 443	10.2
442	Greater than 40% of mass 198	71.3
443	17-23% of mass 442	13.7(19.2)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNA STD 50	> G 9076	11-16-89	1426
02		CA1907CS	> G 9077	↓	1530
03		CA 1907C	> G 9078	↓	1627
04		CA2140C	> G 9079	↓	1722
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

551

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC CORP Contract:_____

Lab Code: _____ Case No.: _____ SAS No.:_____ SDG No.:_____

Lab File ID:>G9103 DFTPP Injection Date: 11/17/89

Instrument ID.: G DFTPP Injection time: 21:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30-60% of mass 198	45.1
68	Less than 2% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	57.1
70	Less than 2% of mass 69	.3(.5)1
127	40-60% of mass 198	45.0
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5-9% of mass 198	6.7
275	10-30% of mass 198	21.0
365	Greater than 1% of mass 198	1.8
441	Present,but less than mass 443	8.1
442	Greater than 40% of mass 198	58.7
443	17-23% of mass 442	11.3(19.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	_____	BNAMB	>G9104	11/17/89	22:07
02	_____	QC70098C	>G9105	"	23:01
03	_____	CA2150	>G9106	"	23:54
04	_____	QC70098CA	>G9114	11/18/89	06:58
05	_____	_____	_____	_____	_____
06	_____	_____	_____	_____	_____
07	_____	_____	_____	_____	_____
08	_____	_____	_____	_____	_____
09	_____	_____	_____	_____	_____
10	_____	_____	_____	_____	_____
11	_____	_____	_____	_____	_____
12	_____	_____	_____	_____	_____
13	_____	_____	_____	_____	_____
14	_____	_____	_____	_____	_____
15	_____	_____	_____	_____	_____
16	_____	_____	_____	_____	_____
17	_____	_____	_____	_____	_____
18	_____	_____	_____	_____	_____
19	_____	_____	_____	_____	_____
20	_____	_____	_____	_____	_____
21	_____	_____	_____	_____	_____
22	_____	_____	_____	_____	_____

SAMPLE DATA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1379C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9015

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec. dec. Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	54	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	54	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	54	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1379C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9015

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec. dec. Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	54	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	54	U
100-02-7	4-Nitrophenol	54	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	54	U
534-52-1	4,6-Dinitro-2-methylphenol	54	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	54	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1379C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9015

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

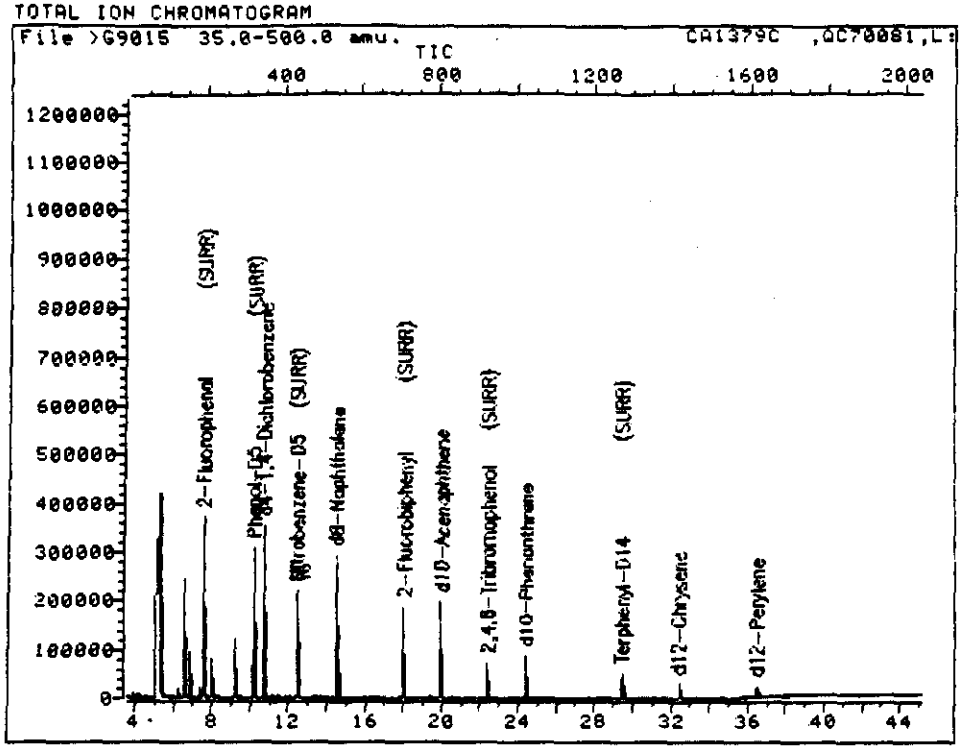
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 141-78-6	Acetic acid, ethyl ester	5.24	600	JB
02.	UNKNOWN	6.50	79	JB
03.	Trichloro-propene isomer	9.14	33	JB
04.	UNKNOWN	6.80	21	JB
05.	UNKNOWN	7.90	21	JB

TOTAL ION CHROMATOGRAM



Data File: >G9015::U6 Quant Output File: ^G9015::AQ
Name:
Misc: CA1379C ,QC70081,L:M6, 920,2 BTL# 6

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891113 16:23

Operator ID: CA3875
Quant Time: 891113 19:59
Injected at: 891113 19:11

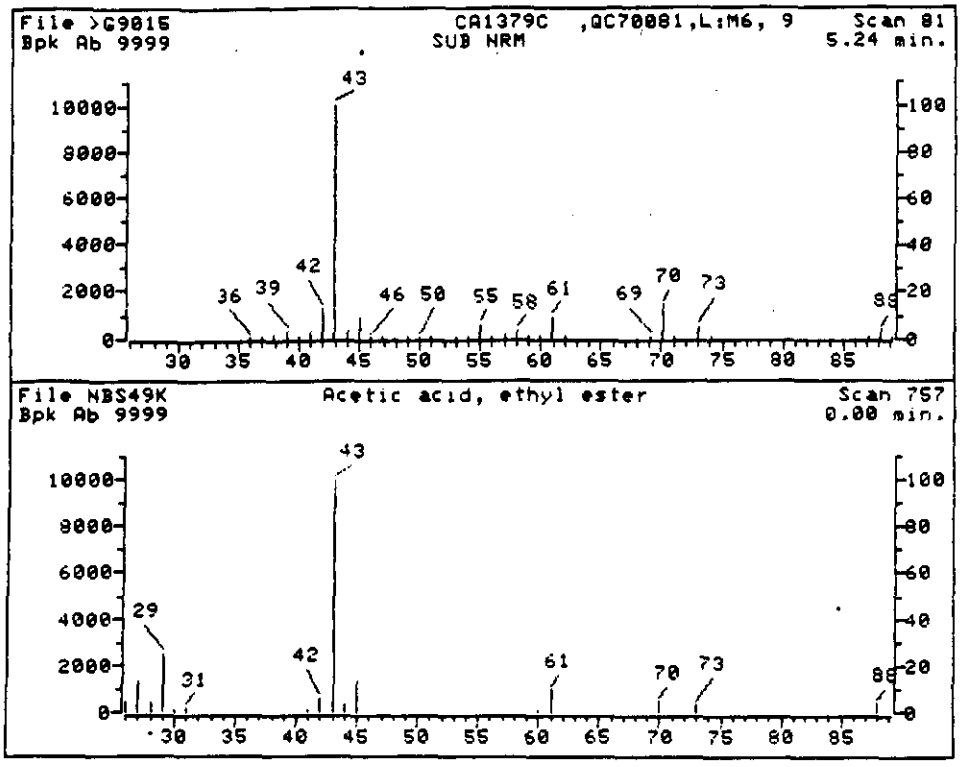
Operator ID: CA3875 Quant Rev: 7 Quant Time: 891113 19:59
Output File: ^G9015::AQ Injected at: 891113 19:11
Data File: >G9015::U6 Dilution Factor: 1.00000
Name:
Misc: CA1379C ,QC70081,L:M6, 920,2 BTL# 6

ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891113 16:23

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.68	349	202838	40.00	UG/ML	89
3)	2-Fluorophenol	(SURR)	7.51	193	243300	67.24	UG/ML	96
5)	Phenol-D5	(SURR)	10.13	322	247273	63.50	UG/ML	94
12)	N-Nitrosodi-n-propylamine		12.39	433	24617	~~12.11~~	~~UG/ML~~	38
17)	*d8-Naphthalene		14.46	535	335050	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.39	433	163032	38.36	UG/ML	93
32)	*d10-Acenaphthene		19.93	804	103281	40.00	UG/ML	98
36)	2-Fluorobiphenyl	(SURR)	18.00	709	148084	34.84	UG/ML	99
52)	2,4,6-Tribromophenol	(SURR)	22.37	924	21328	50.85	UG/ML	97
54)	*d10-Phenanthrene		24.38	1023	87952	40.00	UG/ML	98
65)	*d12-Chrysene		32.39	1417	36314	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	29.42	1271	55721	60.45	UG/ML	93
73)	*d12-Perylene		36.43	1616	27324	40.00	UG/ML	89

* Compound is ISTD

OT 11/2/89

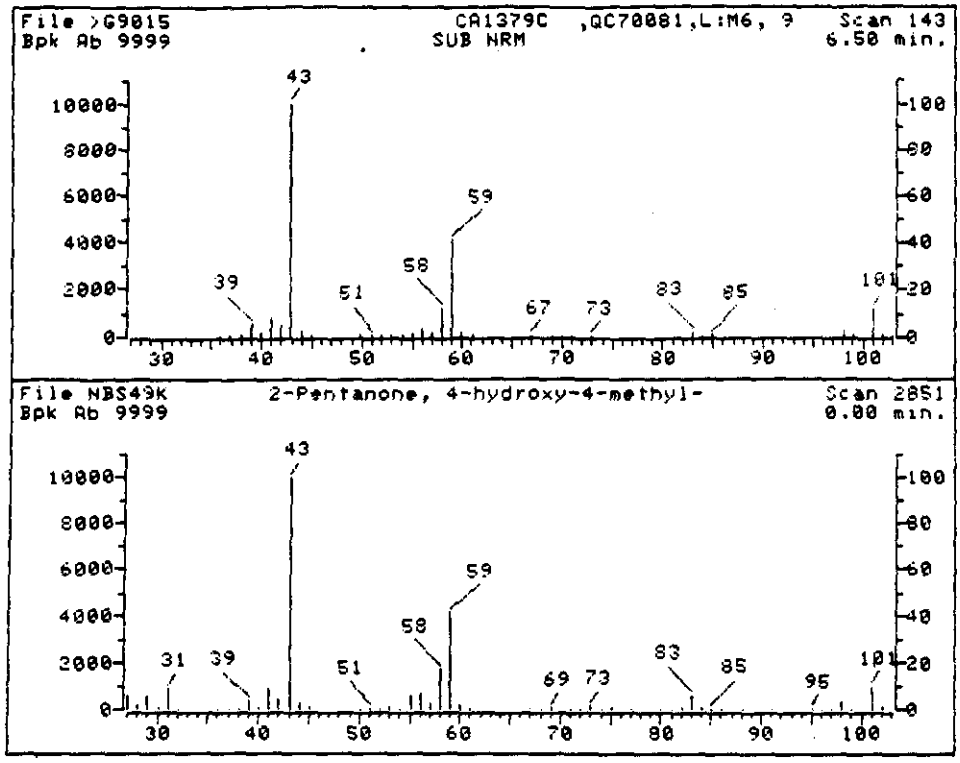


Data File: >G9015::U6
Name:
Misc Data: CA1379C ,QC70081,L:M6, 920,2 BTL# 6
RT (min): 5.24
Scan: 81
Area: 5250678 Rank: 1
Semi-quantitative Conc (uncorrected): 275.22 UG/ML
Semi-quantitative Conc (corrected): 598.30 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.68 minutes

1. Acetic acid, ethyl ester 88 C4H8O2

Sample file: >G9015 Spectrum #: 81
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	60*	141786	2197	NBS49K	28	50	1	0	70	13	30	15

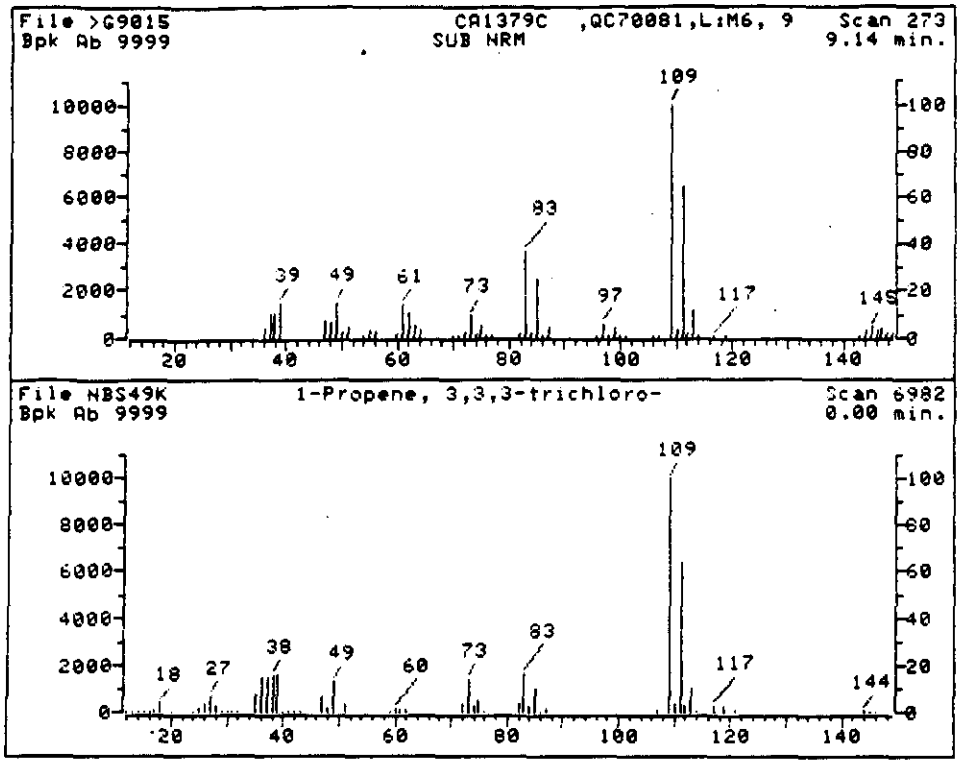


Data File: >G9015::U6
Name:
Misc Data: CA1379C ,QC70081,L:M6, 920,2 BTL# 6
RT (min): 6.50
Scan: 143
Area: 695342 Rank: 4
Semi-quantitative Conc (uncorrected): 36.45 UG/ML
Semi-quantitative Conc (corrected): 79.23 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.68 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2

Sample file: >G9015 Spectrum #: 143
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	123422	1790	NBS49K	43	40	2	0	69	4	55	14

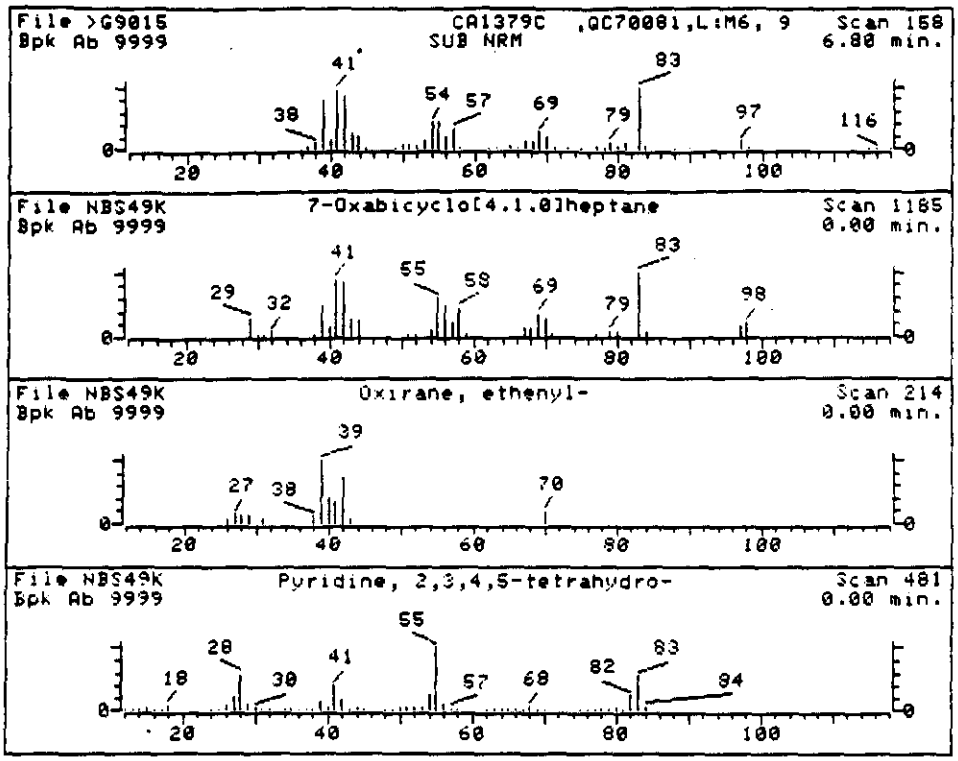


Data File: >G9015::U6
Name:
Misc Data: CA1379C ,QC70081,L:M6, 920,2 BTL# 6
RT (min): 9.14
Scan: 273
Area: 286978 Rank: 7
Semi-quantitative Conc (uncorrected): 15.04 UG/ML
Semi-quantitative Conc (corrected): 32.70 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.68 minutes

1. 1-Propene, 3,3,3-trichloro- 144 C3H3Cl3

Sample file: >G9015 Spectrum #: 273
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	40*	2233003	11547	NBS49K	57	56	2	-2	83	28	14	17

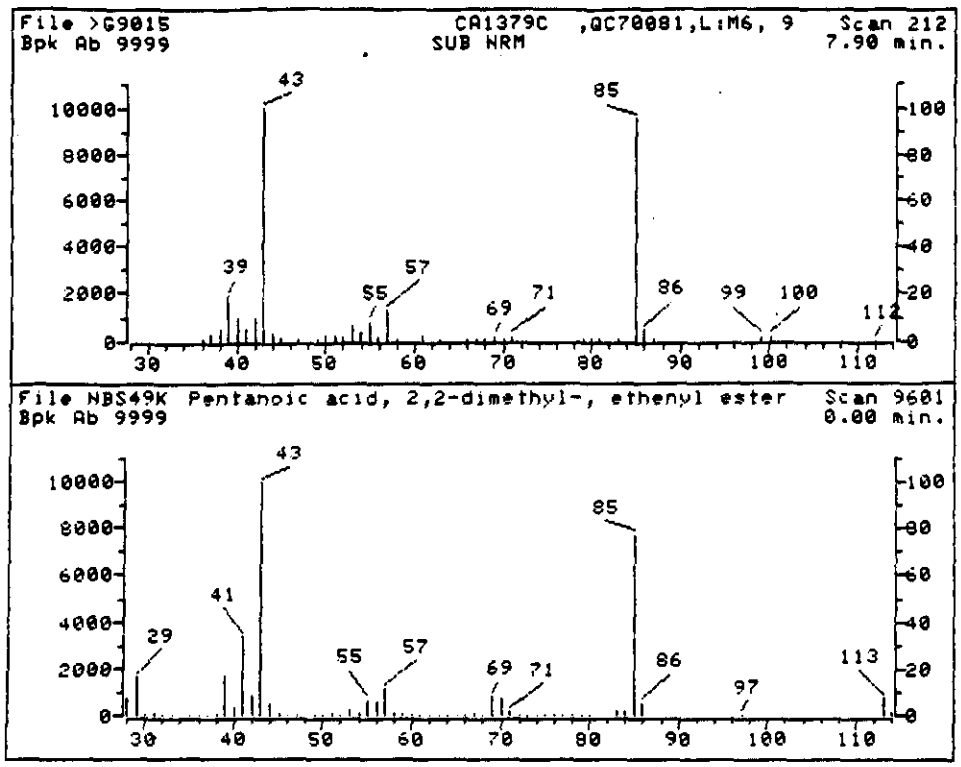


Data File: >G9015::U6
Name:
Misc Data: CA1379C ,QC70081,L:M6, 920,2 BTL# 6
RT (min): 6.80
Scan: 158
Area: 184898 Rank: 8
Semi-quantitative Conc (uncorrected): 9.69 UG/ML
Semi-quantitative Conc (corrected): 21.07 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.68 minutes

1.	7-Oxabicyclo[4.1.0]heptane	98 C6H10O
2.	Oxirane, ethenyl-	70 C4H6O
3.	Pyridine, 2,3,4,5-tetrahydro-	83 C5H9N

Sample file: >G9015 Spectrum #: 158
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IV
1.	29	286204	6142	NBS49K	72	43	3	0	72	32	12	12
2.	25*	930223	3807	NBS49K	32	40	1	0	78	46	7	17
3.	20*	505180	6132	NBS49K	38	55	2	0	182	55	5	18



Data File: >G9015::U6
Name:
Misc Data: CA1379C ,QC70081,L:M6, 920,2 BTL# 6
RT (min): 7.90
Scan: 212
Area: 183113 Rank: 9
Semi-quantitative Conc (uncorrected): 9.60 UG/ML
Semi-quantitative Conc (corrected): 20.87 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.68 minutes

1. Pentanoic acid, 2,2-dimethyl-, ethenyl ester 156 C9H16O2

Sample file: >G9015 Spectrum #: 212
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	60	44970050	6671	NBS49K	36	46	2	0	100	11	30	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1380C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9016

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec. dec. Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	2	J
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	2	J
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	54	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	54	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	54	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1380C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9016

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec. dec. Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	54	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	54	U
100-02-7	4-Nitrophenol	54	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	54	U
534-52-1	4,6-Dinitro-2-methylphenol	54	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	54	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1380C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9016

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

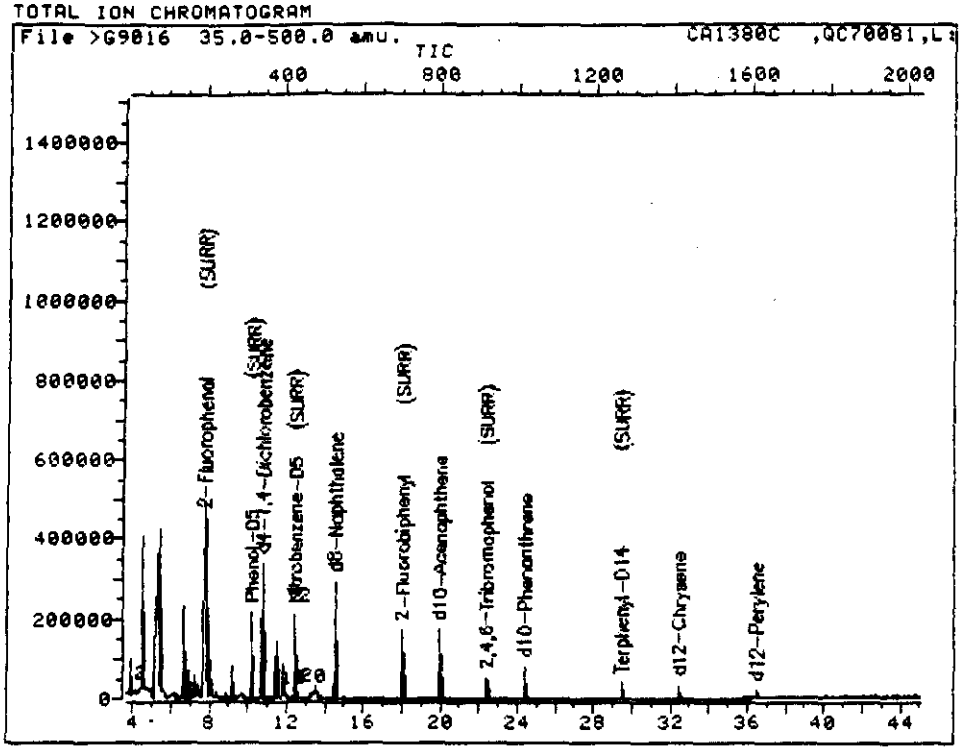
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 16

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01.	141-78-6	Acetic acid, ethyl ester	5.32	580	JB
02.	108-93-0	Cyclohexanol	7.68	360	J
03.	108-88-3	Benzene, methyl-	4.43	91	J
04.		UNKNOWN	6.54	56	JB
05.	116-02-9	Cyclohexanol, 3,3,5-trimethyl	11.73	43	J
06.	873-94-9	Cyclohexanone, 3,3,5-trimeth	11.40	39	J
07.		UNKNOWN	7.99	31	JB
08.		UNKNOWN	13.52	29	J
09.		Dimethyl-benzene isomer	7.15	20	J
10.		UNKNOWN	6.81	20	J
11.		Trichloropropene isomer	9.15	18	JB'
12.		UNKNOWN	3.80	16	J
13.	4536-23-6	Hexanoic acid, 2-methyl-	9.66	10	J
14.	100-41-4	Benzene, ethyl-	6.95	9	J
15.		UNKNOWN	8.29	8	J
16.	29943-42-8	4H-Pyran-4-one, tetrahydro-	7.38	8	J

TOTAL ION CHROMATOGRAM



Data File: >G9016::U6 Quant Output File: ^G9016::AQ
Name:
Misc: CA1380C ,QC70081,L:M6, 920,2 BTL# 7

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891113 16:23

Operator ID: CA3875
Quant Time: 891113 20:55
Injected at: 891113 20:08

Operator ID: CA3875 Quant Rev: 7 Quant Time: 891113 20:55
Output File: ^G9016::AQ Injected at: 891113 20:08
Data File: >G9016::U6 Dilution Factor: 1.00000
Name:
Misc: CA1380C ,QC70081,L:M6, 920,2 BTL# 7

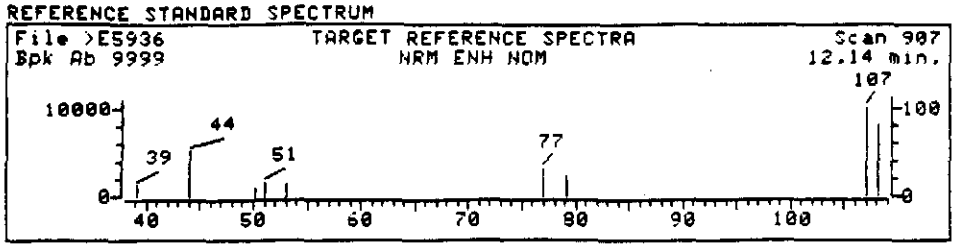
ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891113 16:23

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.69	346	199757	40.00	UG/ML	90
2)	N-Nitrosodimethylamine		4.29	31	5650	~~1.70~~	~~UG/ML~~	100
3)	2-Fluorophenol	(SURR)	7.66	197	139880	39.25	UG/ML	89
5)	Phenol-D5	(SURR)	10.14	319	172813	44.97	UG/ML	95
12)	N-Nitrosodi-n-propylamine		12.40	430	24885	~~12.43~~	~~UG/ML~~	38
14)	2-Methylphenol		12.26	423	2679	~~1.15~~	~~UG/ML~~	85
15)	4-Methylphenol		12.26	423	2679	.997	UG/ML	93
17)	*d8-Naphthalene		14.47	532	333406	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.40	430	162260	38.36	UG/ML	94
20)	Isophorone		13.21	470	4266	OK ~~.858~~	~~UG/ML~~ OK	96
32)	*d10-Acenaphthene		19.92	800	99385	40.00	UG/ML	99
36)	2-Fluorobiphenyl	(SURR)	17.99	705	145213	35.51	UG/ML	99
52)	2,4,6-Tribromophenol	(SURR)	22.36	920	19145	47.43	UG/ML	92
54)	*d10-Phenanthrene		24.37	1019	85596	40.00	UG/ML	96
65)	*d12-Chrysene		32.42	1415	35187	40.00	UG/ML	99
67)	Terphenyl-D14	(SURR)	29.41	1267	49964	55.94	UG/ML	95
73)	*d12-Perylene		36.44	1613	25568	40.00	UG/ML	91

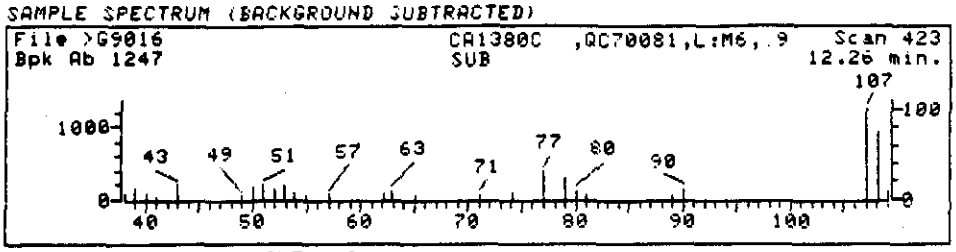
* Compound is ISTD

ET 11/12/89

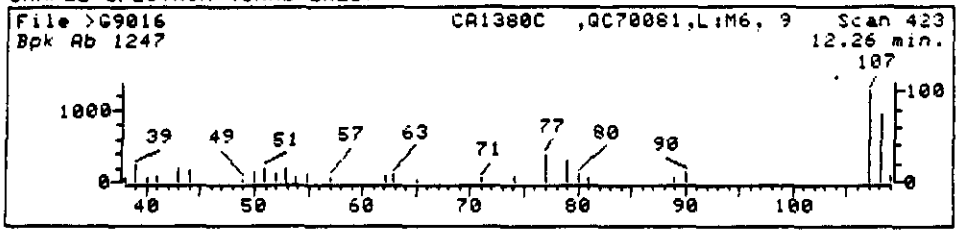
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



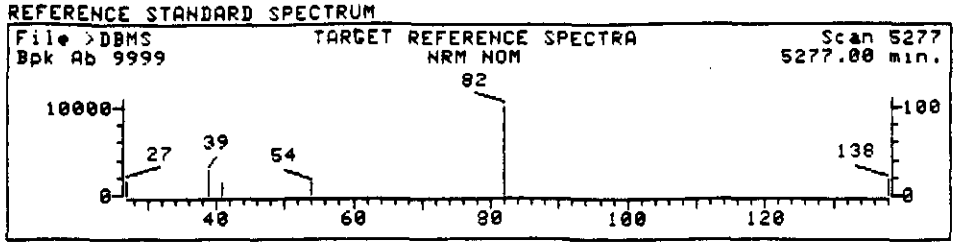
SAMPLE SPECTRUM (UNALTERED)



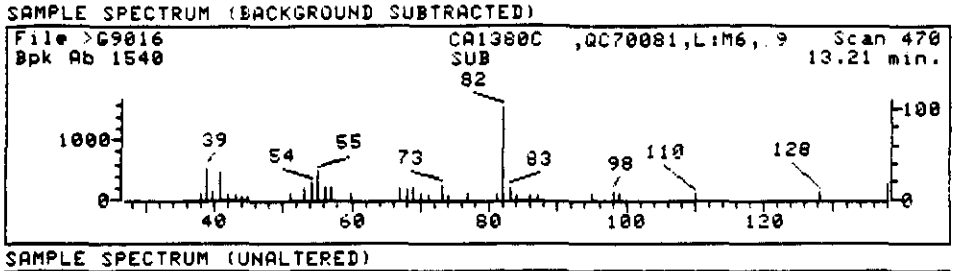
Data File: >G9016::U6 Quant Output File: ^G9016::AQ
Name:
Misc: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
Quant Time: 891113 20:55 Quant ID File: IG0130::PF
Injected at: 891113 20:08 Last Calibration: 891113 16:23

Compound No: 15
Compound Name: 4-Methylphenol
Scan Number: 423
Retention Time: 12.26 min.
Quant Ion: 107.0
Area: 2679
Concentration: .997 UG/ML
q-value: 93

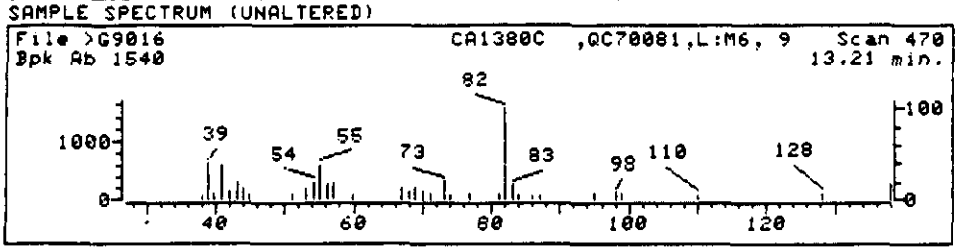
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

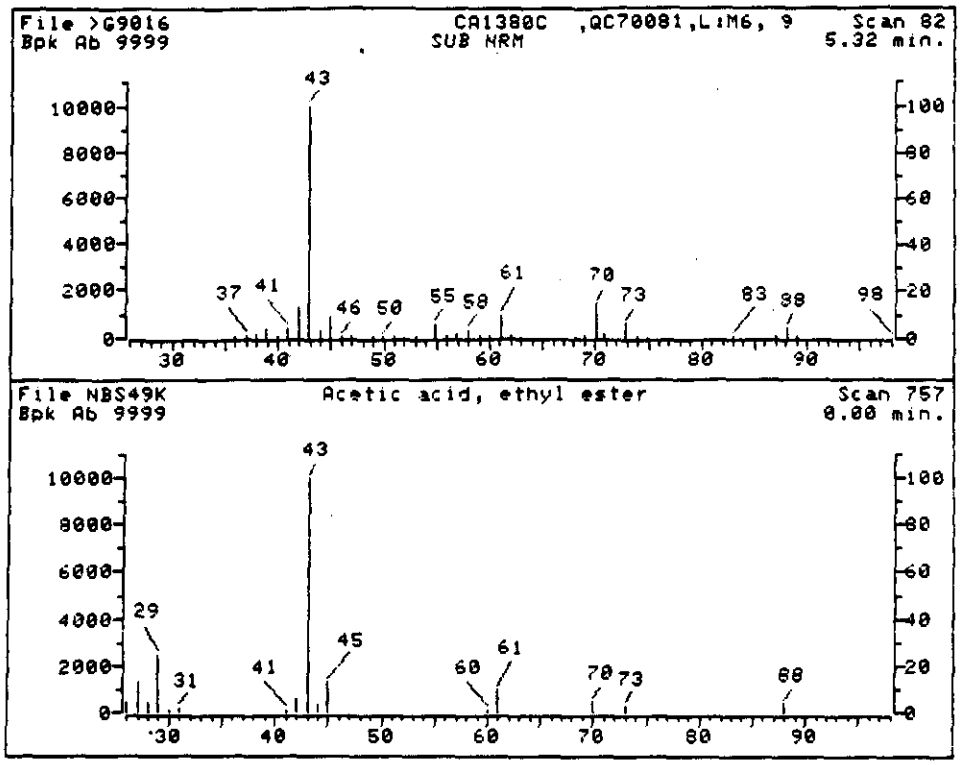


SAMPLE SPECTRUM (UNALTERED)



Data File: >G9016::U6 Quant Output File: ^G9016::AQ
Name:
Misc: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
Quant Time: 891113 20:55 Quant ID File: IG0130::PF
Injected at: 891113 20:08 Last Calibration: 891113 16:23

Compound No: 20
Compound Name: Isophorone
Scan Number: 470
Retention Time: 13.21 min.
Quant Ion: 82.0
Area: 4266
Concentration: .850 UG/ML
q-value: 96

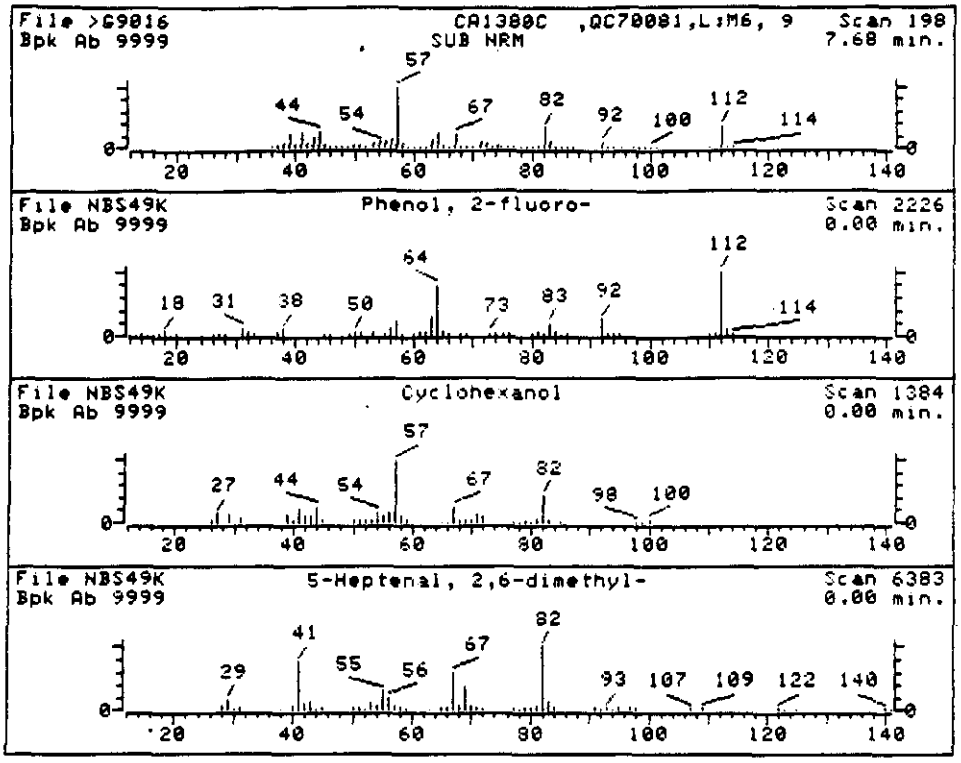


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 5.32
Scan: 82
Area: 5295108 Rank: 1
Semi-quantitative Conc (uncorrected): 265.89 UG/ML
Semi-quantitative Conc (corrected): 578.03 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1. Acetic acid, ethyl ester 88 C4H8O2

Sample file: >G9016 Spectrum #: 82
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	60*	141786	2197	NBS49K	28	50	1	0	69	14	30	15

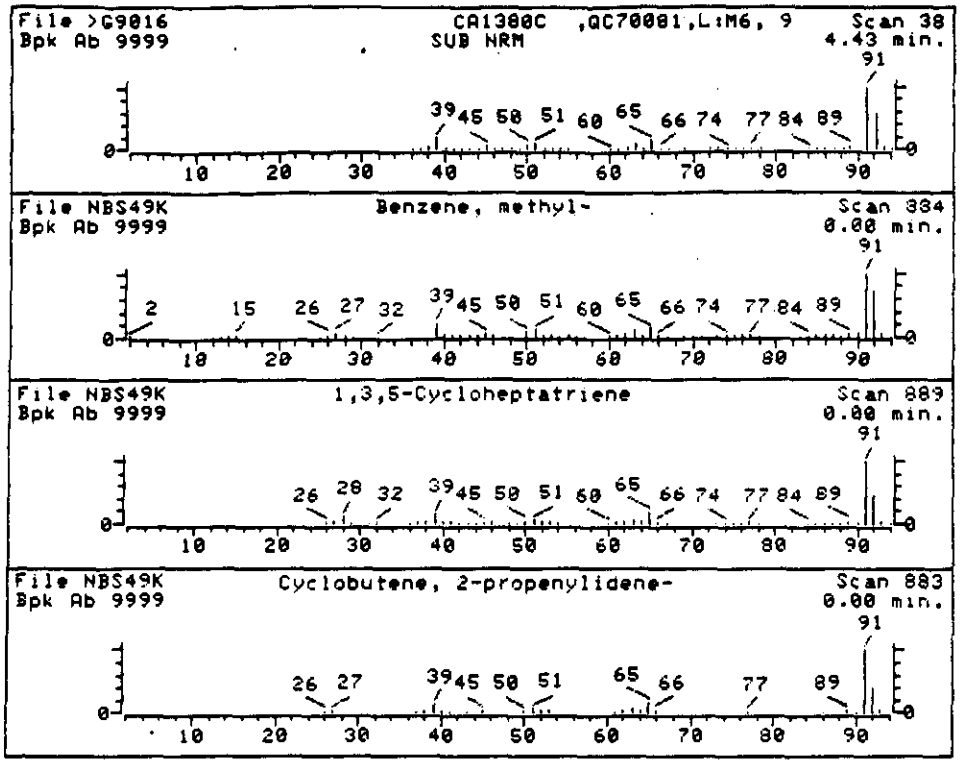


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 7.68
Scan: 198
Area: 3306231 Rank: 2
Semi-quantitative Conc (uncorrected): 166.02 UG/ML
Semi-quantitative Conc (corrected): 360.92 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1.	Phenol, 2-fluoro-	112 C6H5FO
2.	Cyclohexanol	100 C6H12O
3.	5-Heptenal, 2,6-dimethyl-	140 C9H16O

Sample file: >G9016 Spectrum #: 198
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	367124	2835	NBS49K	73	21	0	0	33	39	47	92
2.	15	108930	5866	NBS49K	59	35	2	0	80	60	3	19
3.	11	106729	5945	NBS49K	36	39	2	0	34	63	2	12

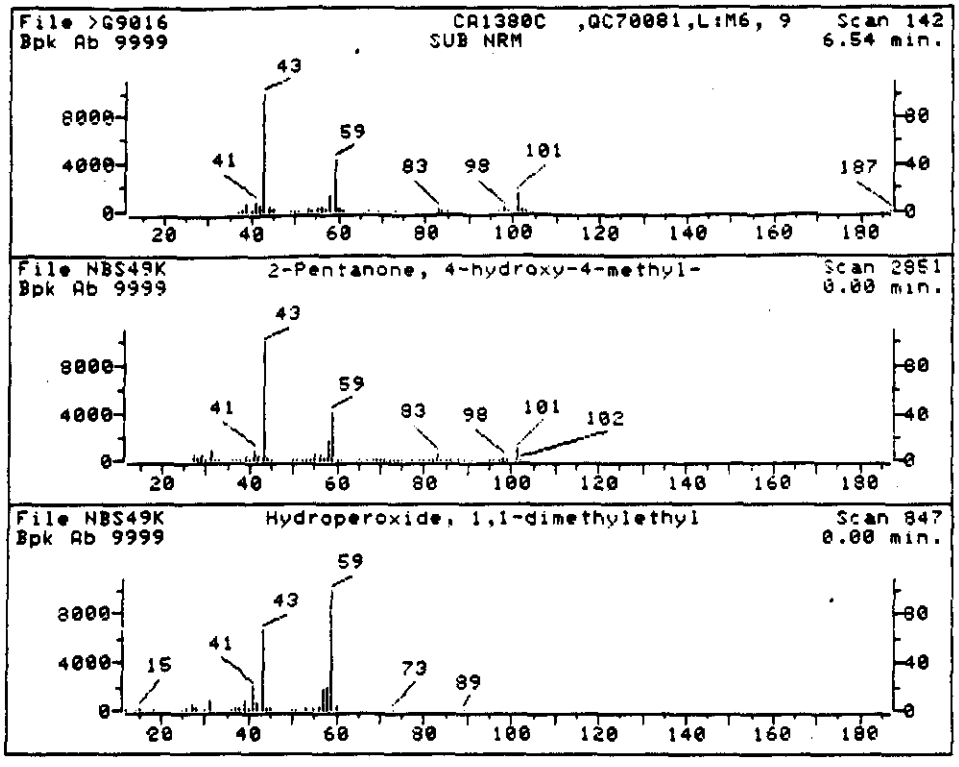


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 4.43
Scan: 38
Area: 833660 Rank: 3
Semi-quantitative Conc (uncorrected): 41.86 UG/ML
Semi-quantitative Conc (corrected): 91.00 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1. Benzene, methyl- 92 C7H8
2. 1,3,5-Cycloheptatriene 92 C7H8
3. Cyclobutene, 2-propenylidene- 92 C7H8

Sample file: >G9016 Spectrum #: 38
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I
1.	96*	108883	8475	NBS49K	82	8	1	0	76	3	72	96
2.	86*	544252	8479	NBS49K	62	23	3	0	100	0	60	37
3.	79*	52097855	8474	NBS49K	50	29	2	0	96	8	48	31

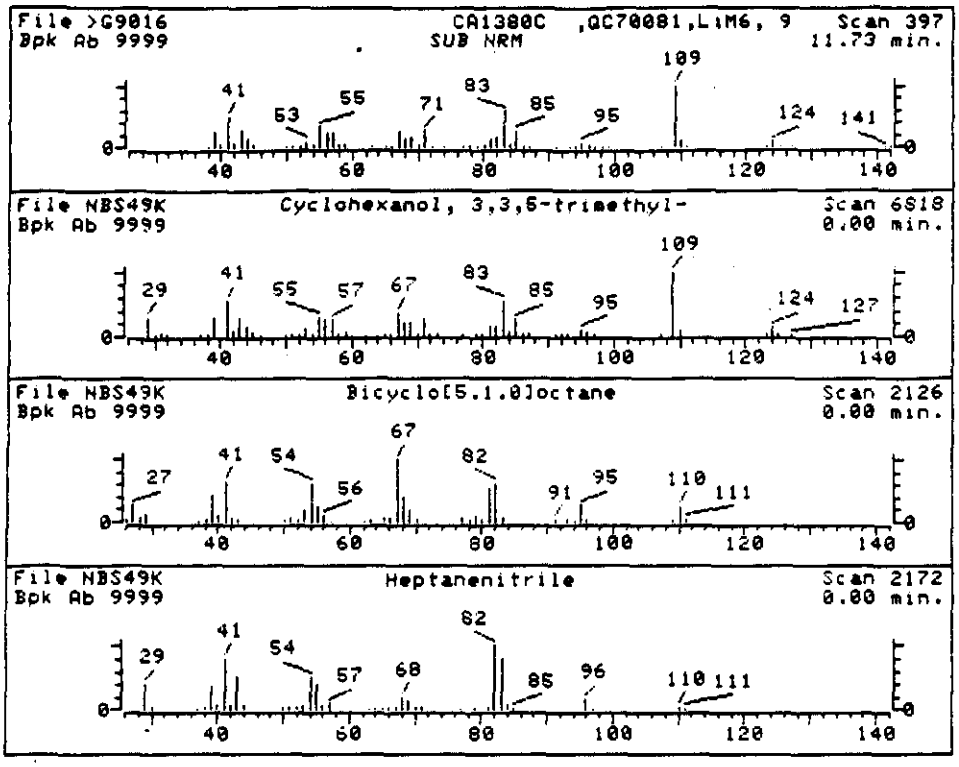


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 6.54
Scan: 142
Area: 516218 Rank: 6
Semi-quantitative Conc (uncorrected): 25.92 UG/ML
Semi-quantitative Conc (corrected): 56.35 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2
2. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9016 Spectrum #: 142
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	123422	1790	NBS49K	43	40	2	0	70	6	42	14
2.	20	75912	1733	NBS49K	34	31	1	0	39	51	5	12

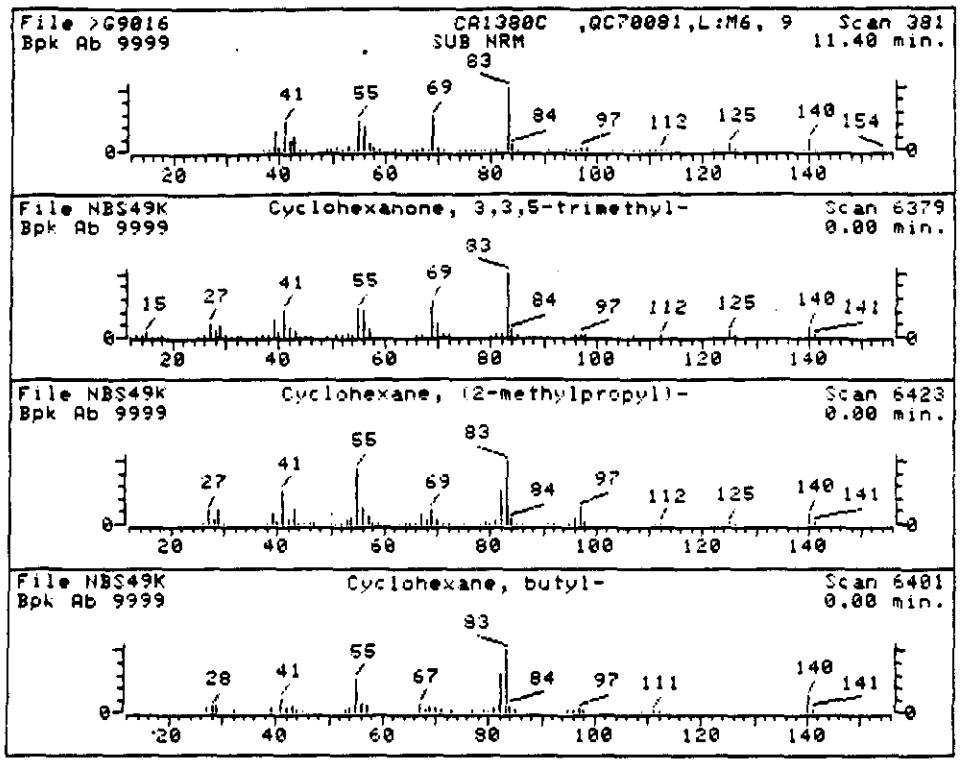


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 11.73
Scan: 397
Area: 394267 Rank: 8
Semi-quantitative Conc (uncorrected): 19.80 UG/ML
Semi-quantitative Conc (corrected): 43.04 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1. Cyclohexanol, 3,3,5-trimethyl- 142 C9H18O
2. Bicyclo[5.1.0]octane 110 C8H14
3. Heptanenitrile 111 C7H13N

Sample file: >G9016 Spectrum #: 397
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	89	116029	11546	NBS49K	96	16	1	0	72	4	66	60
2.	27*	286431	5881	NBS49K	43	41	2	1	21	41	8	15
3.	26*	629083	5887	NBS49K	38	49	2	1	49	40	10	12

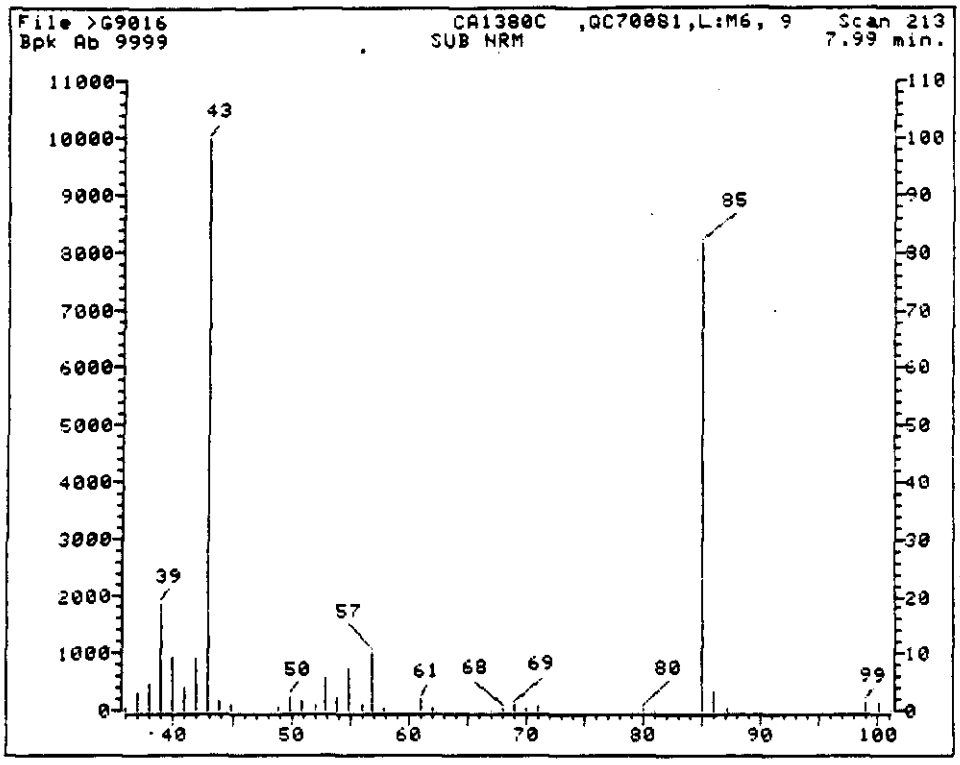


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 11.40
Scan: 381
Area: 353695 Rank: 9
Semi-quantitative Conc (uncorrected): 17.76 UG/ML
Semi-quantitative Conc (corrected): 38.61 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1. Cyclohexanone, 3,3,5-trimethyl- 140 C9H16O
2. Cyclohexane, (2-methylpropyl)- 140 C10H20
3. Cyclohexane, butyl- 140 C10H20

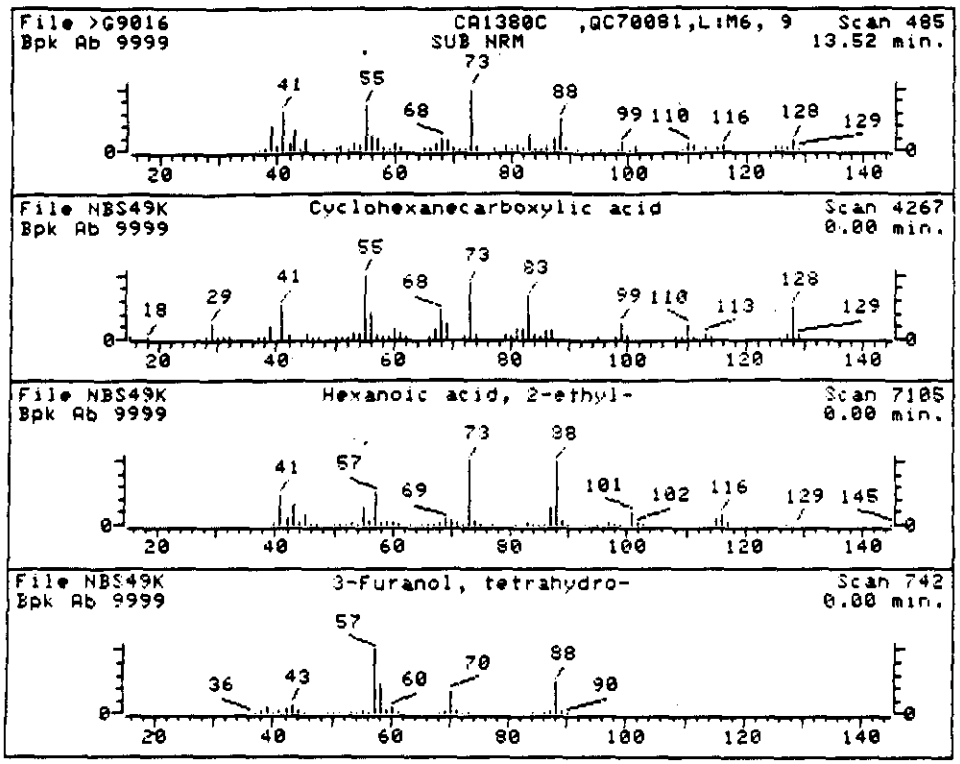
Sample file: >G9016 Spectrum #: 381
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	F_I
1.	86*	873949	6185	NBS49K	79	23	1	0	89	6	59	76
2.	60*	1678984	6188	NBS49K	31	72	3	0	100	15	30	13
3.	52*	1678939	17708	NBS49K	41	57	2	1	77	18	20	14



Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 7.99
Scan: 213
Area: 282060 Rank: 10
Semi-quantitative Conc (uncorrected): 14.16 UG/ML
Semi-quantitative Conc (corrected): 30.79 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

No PBM hits for this scan.

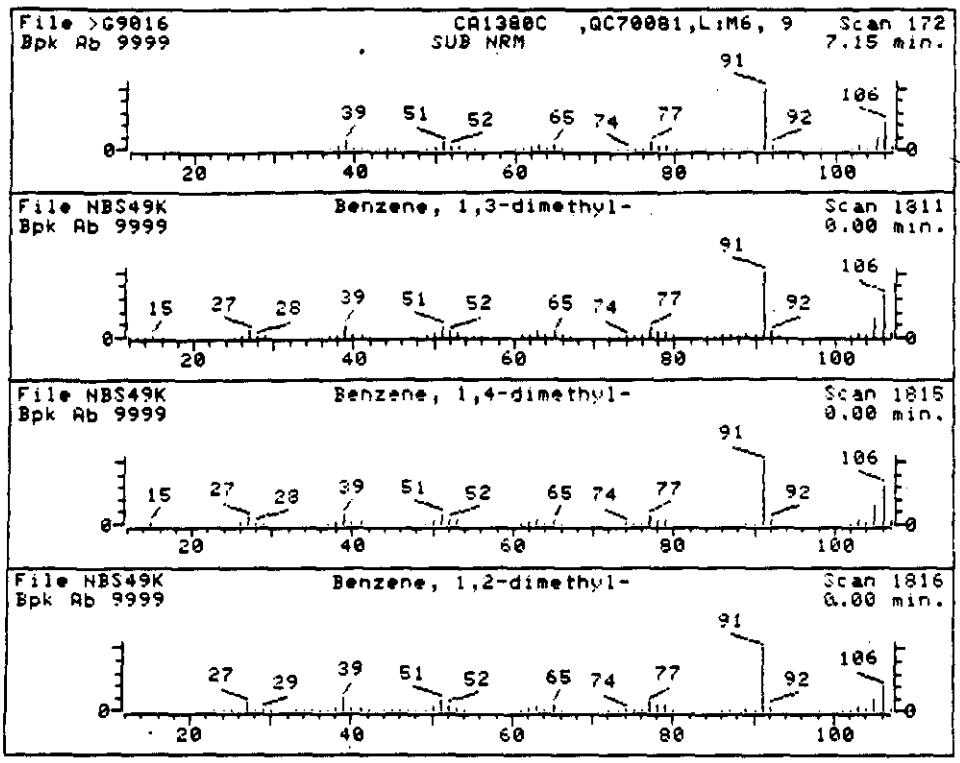


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 13.52
Scan: 485
Area: 230863 Rank: 11
Semi-quantitative Conc (uncorrected): 13.44 UG/ML
Semi-quantitative Conc (corrected): 29.21 ug/l
Calculated using Istd: d8-Naphthalene @ 14.47 minutes

1.	Cyclohexanecarboxylic acid	128	C7H12O2
2.	Hexanoic acid, 2-ethyl-	144	C8H16O2
3.	3-Furanol, tetrahydro-	88	C4H8O2

Sample file: >G9016 Spectrum #: 485
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	51*	98895	15236	NBS49K	77	25	0	1	40	55	16	76
2.	24	149575	7737	NBS49K	40	44	0	0	37	55	7	22
3.	20*	453203	7647	NBS49K	24	67	3	0	104	55	5	12

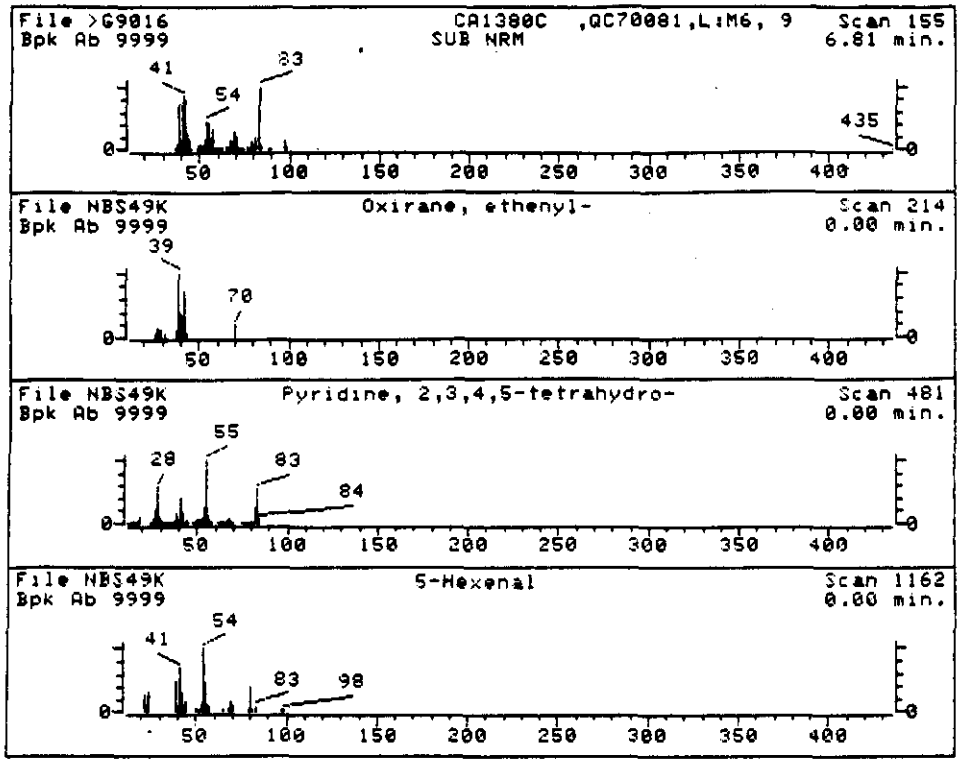


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 7.15
Scan: 172
Area: 181331 Rank: 12
Semi-quantitative Conc (uncorrected): 9.11 UG/ML
Semi-quantitative Conc (corrected): 19.79 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1.	Benzene, 1,3-dimethyl-	106 C8H10
2.	Benzene, 1,4-dimethyl-	106 C8H10
3.	Benzene, 1,2-dimethyl-	106 C8H10

Sample file: >G9016 Spectrum #: 172
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	97*	108383	11007	NBS49K	85	7	0	0	68	4	72	97
2.	89*	106423	11009	NBS49K	75	18	1	0	66	3	66	77
3.	86*	95476	11010	NBS49K	72	20	1	0	76	10	59	73

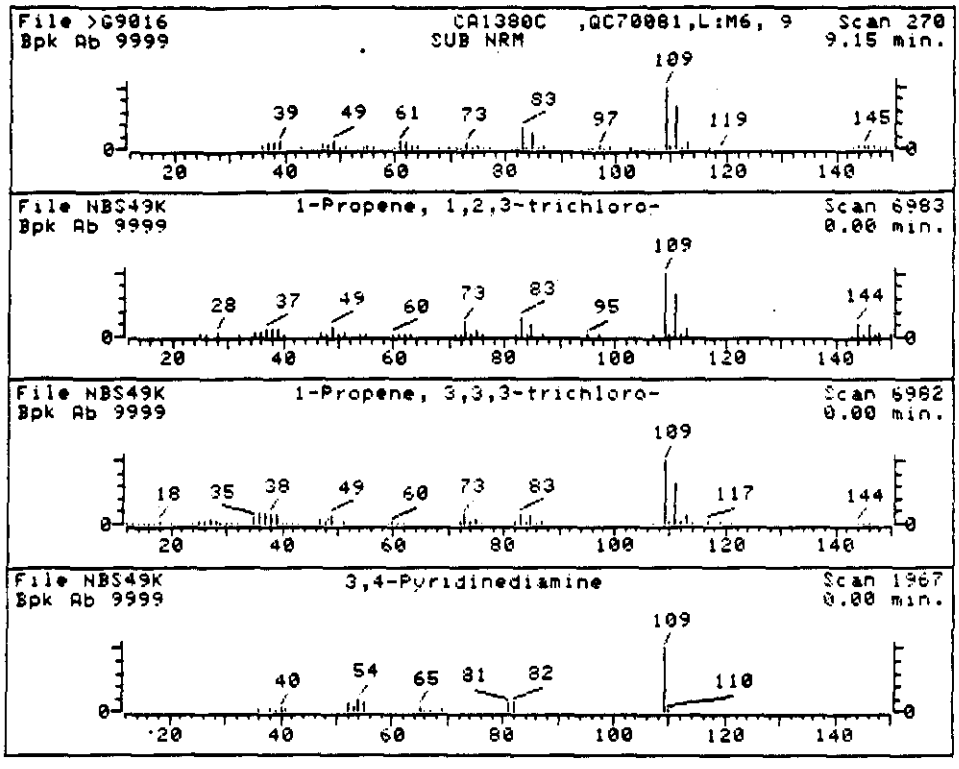


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 6.81
Scan: 155
Area: 180332 Rank: 13
Semi-quantitative Conc (uncorrected): 9.06 UG/ML
Semi-quantitative Conc (corrected): 19.69 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1.	Oxirane, ethenyl-	70 C4H6O
2.	Pyridine, 2,3,4,5-tetrahydro-	83 C5H9N
3.	5-Hexenal	98 C6H10O

Sample file: >G9016 Spectrum #: 155
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29*	930223	3807	NBS49K	32	40	1	0	75	45	8	17
2.	24*	505180	6132	NBS49K	43	50	2	0	176	54	7	23
3.	20*	764590	43	NBS49K	24	82	3	0	150	53	5	12

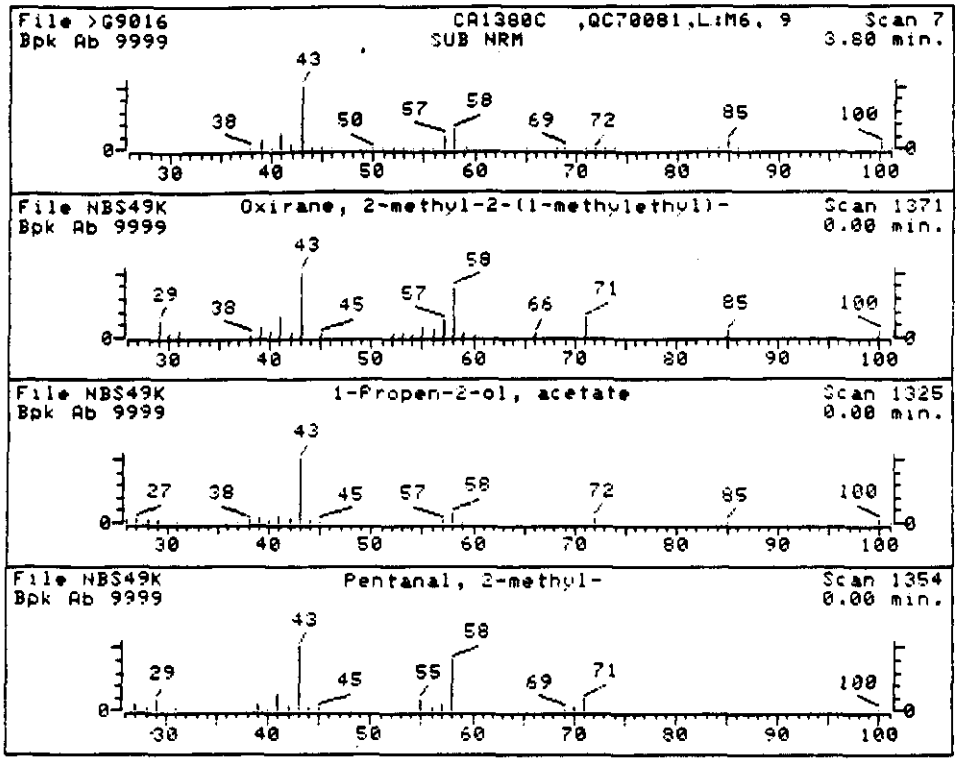


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 9.15
Scan: 270
Area: 160439 Rank: 14
Semi-quantitative Conc (uncorrected): 8.06 UG/ML
Semi-quantitative Conc (corrected): 17.51 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1.	1-Propene, 1,2,3-trichloro-	144 C3H3Cl3
2.	1-Propene, 3,3,3-trichloro-	144 C3H3Cl3
3.	3,4-Pyridinediamine	109 C5H7N3

Sample file: >G9016 Spectrum #: 270
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52	96195	11548	NBS49K	64	57	2	0	81	18	20	14
2.	20*	2233003	11547	NBS49K	42	71	2	0	57	51	5	14
3.	15*	54966	11493	NBS49K	22	60	3	0	100	60	3	12

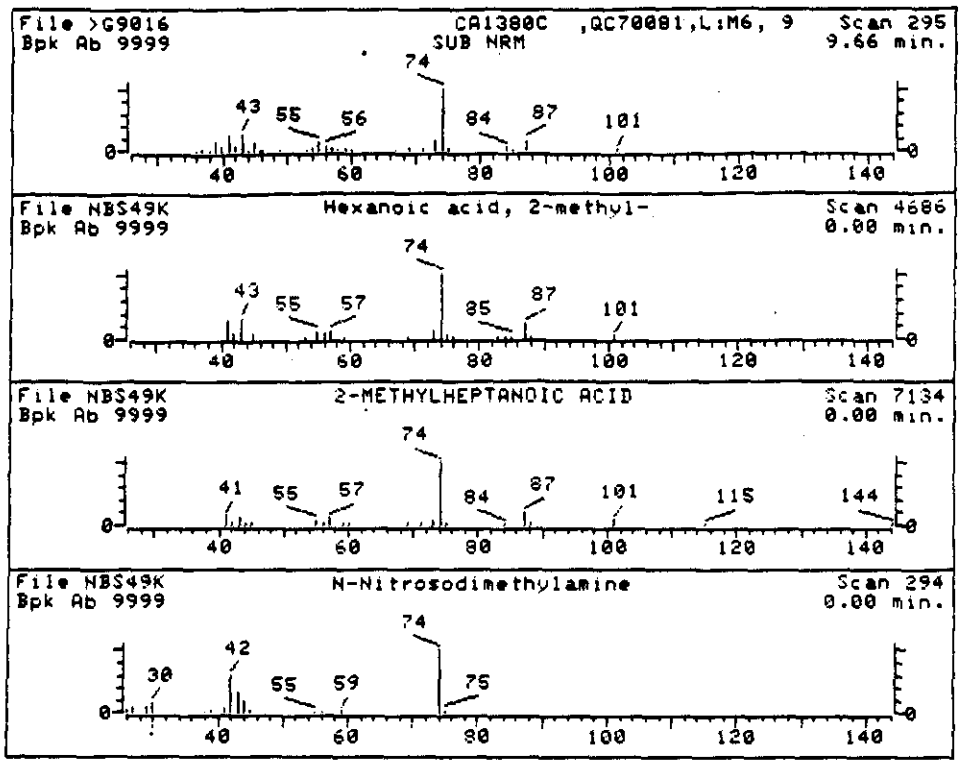


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 3.80
Scan: 7
Area: 150475 Rank: 16
Semi-quantitative Conc (uncorrected): 7.56 UG/ML
Semi-quantitative Conc (corrected): 16.43 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1. Oxirane, 2-methyl-2-(1-methylethyl)- 100 C6H12O
2. 1-Propen-2-ol, acetate 100 C5H8O2
3. Pentanal, 2-methyl- 100 C6H12O

Sample file: >G9016 Spectrum #: 7
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	70*	72221035	1370	NBS49K	23	69	3	0	100	6	42	12
2.	37*	108225	1366	NBS49K	27	42	2	0	100	29	14	14
3.	35*	127189	1367	NBS49K	22	58	3	0	100	26	14	12

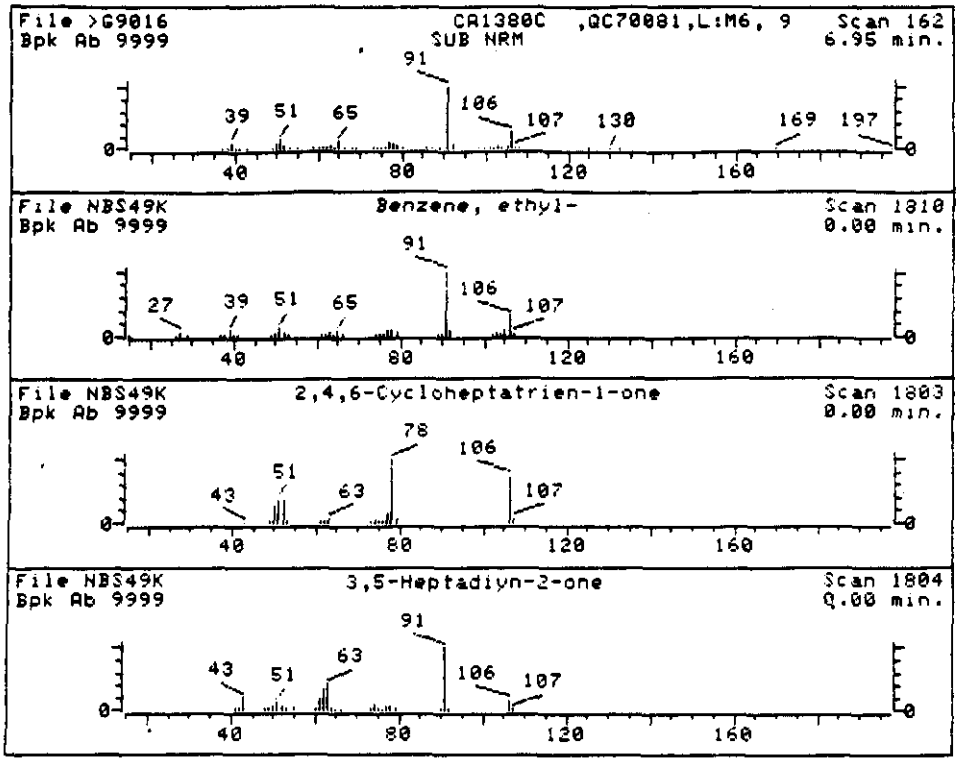


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 9.66
Scan: 295
Area: 89110 Rank: 18
Semi-quantitative Conc (uncorrected): 4.47 UG/ML
Semi-quantitative Conc (corrected): 9.73 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1.	Hexanoic acid, 2-methyl-	130 C7H14O2
2.	2-METHYLHEPTANOIC ACID	144 C8H16O2
3.	N-Nitrosodimethylamine	74 C2H6N2O

Sample file: >G9016 Spectrum #: 295
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	67	4536236	4882	NBS49K	63	24	2	0	72	12	34	22
2.	60	1188029	4900	NBS49K	35	47	2	0	80	14	30	12
3.	31*	62759	4845	NBS49K	26	54	2	0	83	32	12	14

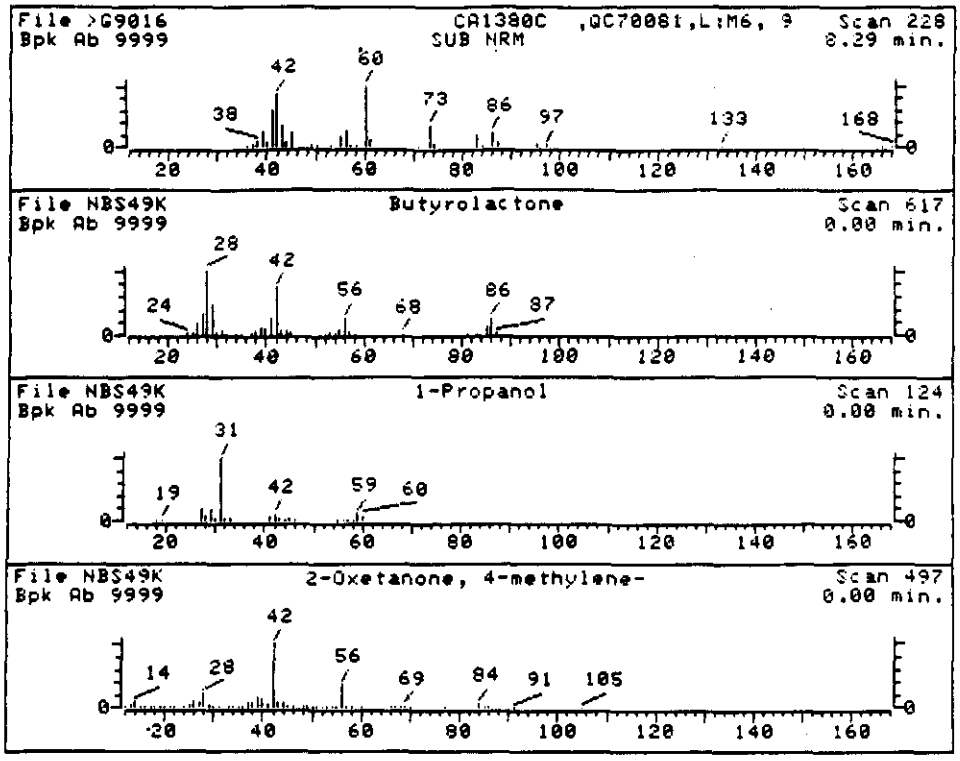


Data File: >G9016:?U6
Name:
Misc Data: CA1380C .QC70081,L:M6, 920,2 BTL# 7
RT (min): 6.95
Scan: 162
Area: 79147 Rank: 19
Semi-quantitative Conc (uncorrected): 3.97 UG/ML
Semi-quantitative Conc (corrected): 8.64 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1.	Benzene, ethyl-	106	C8H10
2.	2,4,6-Cycloheptatrien-1-one	106	C7H6O
3.	3,5-Heptadiyn-2-one	106	C7H6O

Sample file: G9016 Spectrum #: 162
Search speed: 2 Tilting option: S No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86*	100414	1100	NBS49K	73	11	1	2	71	6	59	74
2.	52*	539800	5303	NBS49K	40	47	2	1	37	16	20	13
3.	52*	13879719	2366	NBS49K	32	68	3	0	100	18	20	13

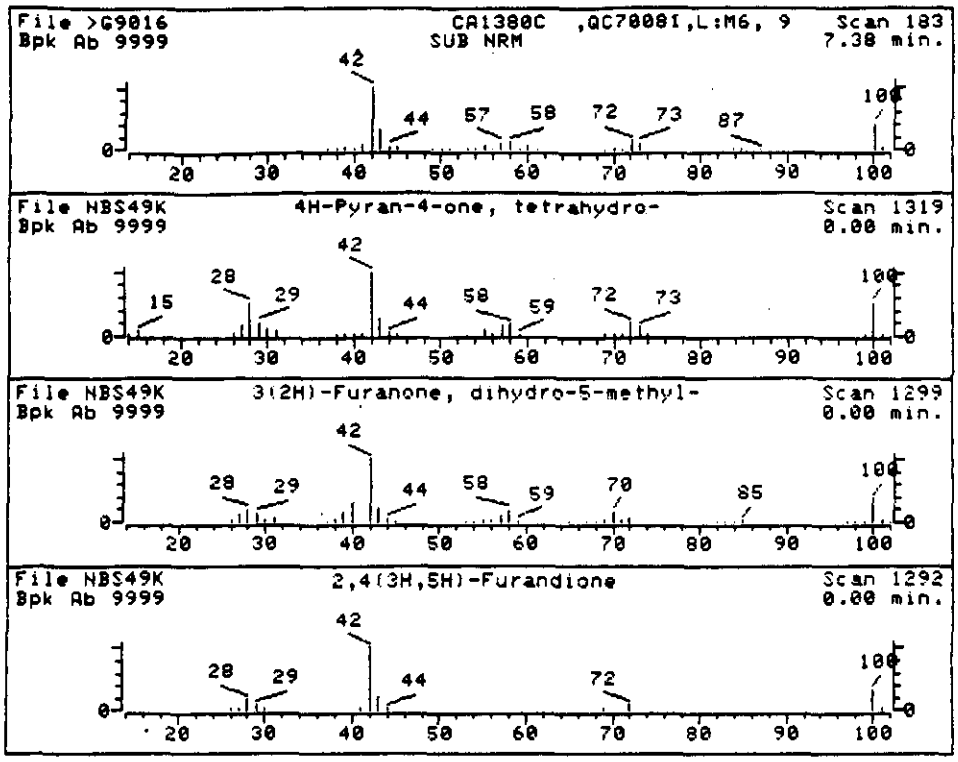


Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 8.29
Scan: 228
Area: 74120 Rank: 20
Semi-quantitative Conc (uncorrected): 3.72 UG/ML
Semi-quantitative Conc (corrected): 8.09 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1.	Butyrolactone	86 C4H6O2
2.	1-Propanol	60 C3H8O
3.	2-Oxetanone, 4-methylene-	84 C4H4O2

Sample file: >G9016 Spectrum #: 228
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IU
1.	20*	96480	6940	NBS49K	39	58	2	0	73	51	5	16
2.	20*	71238	-120	NBS49K	22	51	2	0	872	54	5	13
3.	15	674828	1010	NBS49K	35	42	2	0	72	60	3	12



Data File: >G9016::U6
Name:
Misc Data: CA1380C ,QC70081,L:M6, 920,2 BTL# 7
RT (min): 7.38
Scan: 183
Area: 69347 Rank: 21
Semi-quantitative Conc (uncorrected): 3.48 UG/ML
Semi-quantitative Conc (corrected): 7.57 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.69 minutes

1. 4H-Pyran-4-one, tetrahydro- 100 C5H8O2
2. 3(2H)-Furanone, dihydro-5-methyl- 100 C5H8O2
3. 2,4(3H,5H)-Furandione 100 C4H4O3

Sample file: >G9016 Spectrum #: 183
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	29943428	10017	NBS49K	65	31	0	0	67	5	66	78
2.	67*	34003720	10006	NBS49K	45	49	2	0	69	13	34	23
3.	46*	4971566	10004	NBS49K	35	27	2	0	100	24	17	17

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1381C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9017

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec. dec. Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	2	J
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	2	J
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	54	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	54	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	54	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1381C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9017

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec. dec. Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	54	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	54	U
100-02-7	4-Nitrophenol	54	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	54	U
534-52-1	4,6-Dinitro-2-methylphenol	54	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	54	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1381C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9017

Level: (low/med) LOW Date Received: 09/29/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/04/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/89

GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

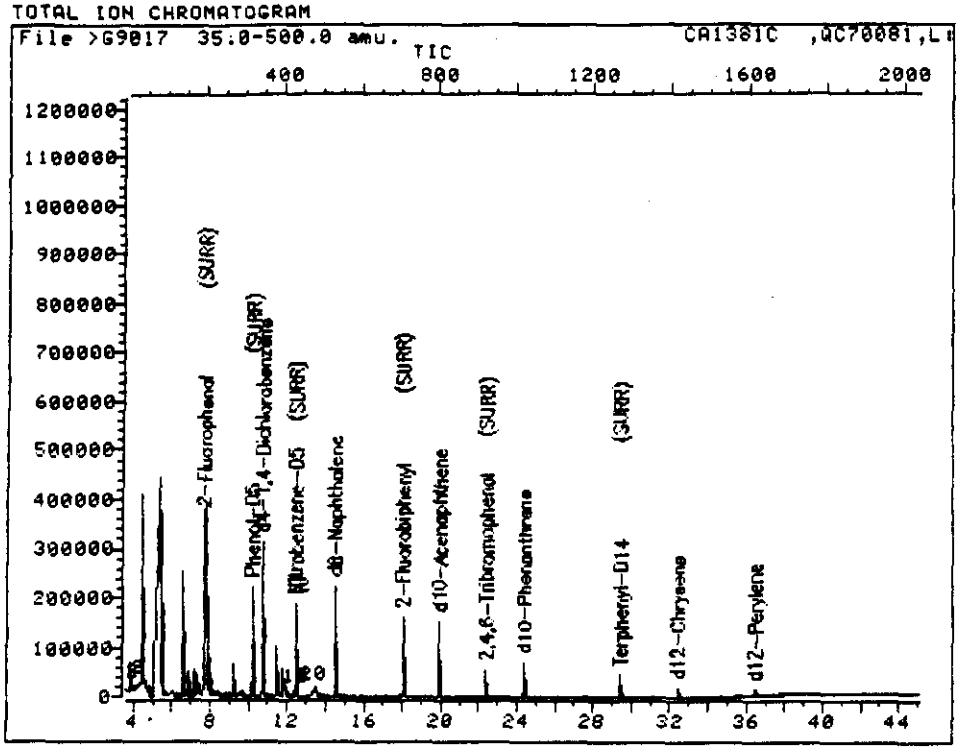
Number TICs found: 14

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01.	141-78-6	Acetic acid, ethyl ester	5.27	560	JB
02.	108-93-0	Cyclohexanol	7.67	280	J
03.	928-94-9	2-Hexen-1-ol, (Z)-	7.75	170	J
04.	108-88-3	Benzene, methyl-	4.42	110	J
05.		UNKNOWN	6.55	85	JB
06.	873-94-9	Cyclohexanone, 3,3,5-trimeth	11.39	35	J
07.	116-02-9	Cyclohexanol, 3,3,5-trimethyl	11.74	33	J
08.		UNKNOWN	7.98	25	JB
09.		Dimethyl-benzene isomer	7.16	21	J
10.		Trichloropropene isomer	9.16	17	JB
11.		UNKNOWN	3.79	17	J
12.		UNKNOWN	6.82	14	J
13.		UNKNOWN	13.47	15	J
~~14.~~	~~12209-11-1~~	~~Ferrocene, 1-(1-hydroxyethyl~~	~~29.42~~	~~140~~	~~J~~ OT 11/12/89
~~15.~~ 14	29943-42-8	4H-Pyran-4-one, tetrahydro-	7.39	8	J

FORM I SV-TIC

TOTAL ION CHROMATOGRAM



Data File: >G9017::U6 Quant Output File: ^G9017::AQ
Name:
Misc: CA1381C ,QC70081,L:M6, 920,2 BTL# 8

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891113 16:23

Operator ID: CA3875
Quant Time: 891113 21:51
Injected at: 891113 21:03

Operator ID: CA3875 Quant Rev: 7 Quant Time: 891113 21:51
Output File: ^G9017::AQ Injected at: 891113 21:03
Data File: >G9017::U6 Dilution Factor: 1.00000
Name:
Misc: CA1381C ,QC70081,L:M6, 920,2 BTL# 8

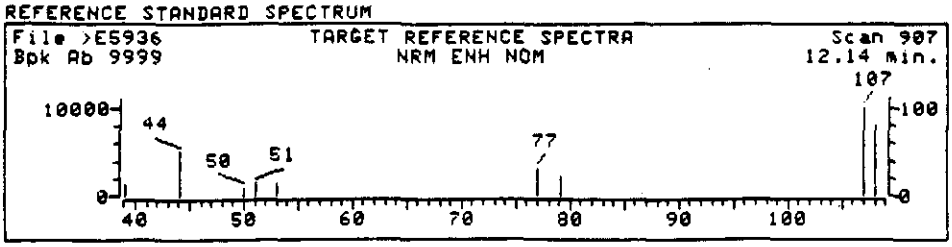
ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891113 16:23

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.70	349	183596	40.00	UG/ML	89
2)	N-Nitrosodimethylamine		3.85	12	2322	~~.762 UG~~/ML		100
2)	N-Nitrosodimethylamine		4.21	30	5041	~~1.65 UG~~/ML		100
3)	2-Fluorophenol	(SURR)	7.65	199	142978	43.65	UG/ML	91
5)	Phenol-D5	(SURR)	10.15	322	172963	48.97	UG/ML	94
12)	N-Nitrosodi-n-propylamine		12.41	433	25645	~~13.94 UG~~/ML		38
14)	2-Methylphenol		12.27	426	2245	~~1.05 UG/ML~~		90
15)	4-Methylphenol		12.27	426	2245	.909	UG/ML	97
17)	*d8-Naphthalene		14.46	534	302683	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.41	433	162128	42.22	UG/ML	88
20)	Isophorone		13.20	472	3954	.868	UG/ML	89
32)	*d10-Acenaphthene		19.93	803	90824	40.00	UG/ML	99
36)	2-Fluorobiphenyl	(SURR)	18.00	708	132265	35.39	UG/ML	99
52)	2,4,6-Tribromophenol	(SURR)	22.37	923	17784	48.21	UG/ML	93
54)	*d10-Phenanthrene		24.38	1022	72529	40.00	UG/ML	97
65)	*d12-Chrysene		32.41	1417	23862	40.00	UG/ML	99
67)	Terphenyl-D14	(SURR)	29.42	1270	43179	71.29	UG/ML	93
73)	*d12-Perylene		36.43	1615	14399	40.00	UG/ML	83

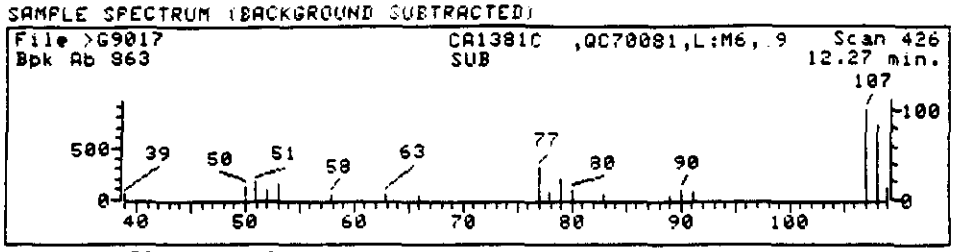
* Compound is ISTD

ST 11/13/89

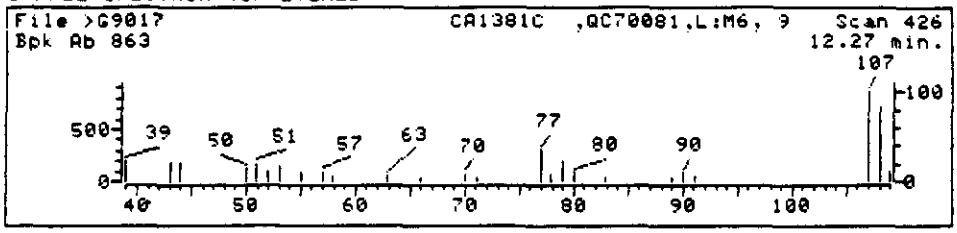
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



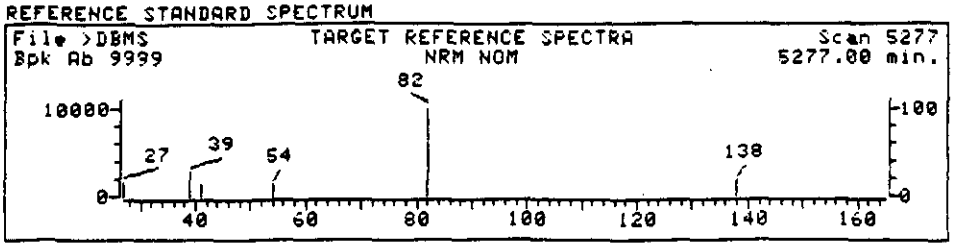
SAMPLE SPECTRUM (UNALTERED)



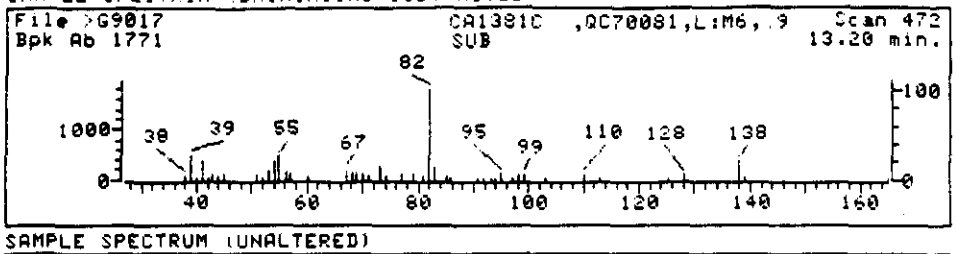
Data File: >G9017::U6 Quant Output File: ^G9017::AQ
Name:
Misc: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
Quant Time: 891113 21:51 Quant ID File: IG0130::PF
Injected at: 891113 21:03 Last Calibration: 891113 16:23

Compound No: 19
Compound Name: 4-Methylphenol
Scan Number: 426
Retention Time: 12.27 min.
Quant Ion: 107.0
Area: 2245
Concentration: .909 UG/ML
q-value: 97

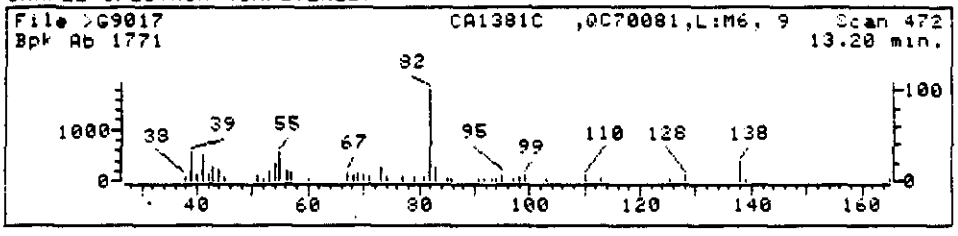
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

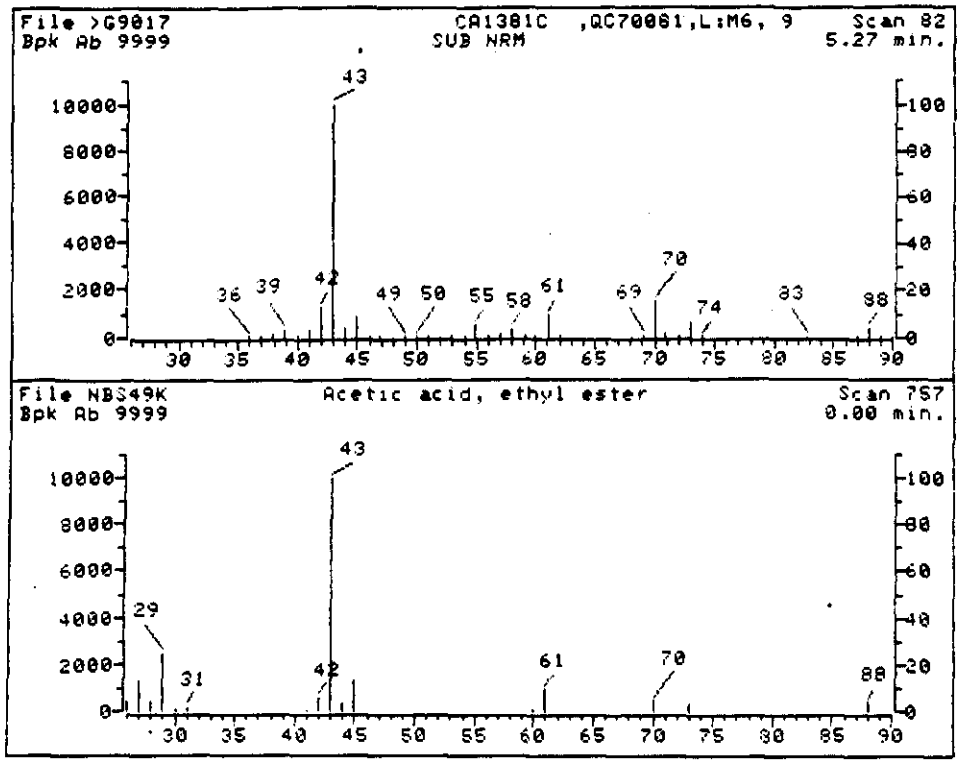


SAMPLE SPECTRUM (UNALTERED)



Data File: >G9017::U6 Quant Output File: ^G9017::AQ
Name:
Misc: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
Quant Time: 891113 21:51 Quant ID File: IG0130::PF
Injected at: 891113 21:03 Last Calibration: 891113 16:23

Compound No: 20
Compound Name: Isophorone
Scan Number: 472
Retention Time: 13.20 min.
Quant Ion: 82.0
Area: 3954
Concentration: .868 UG/ML
q-value: 89

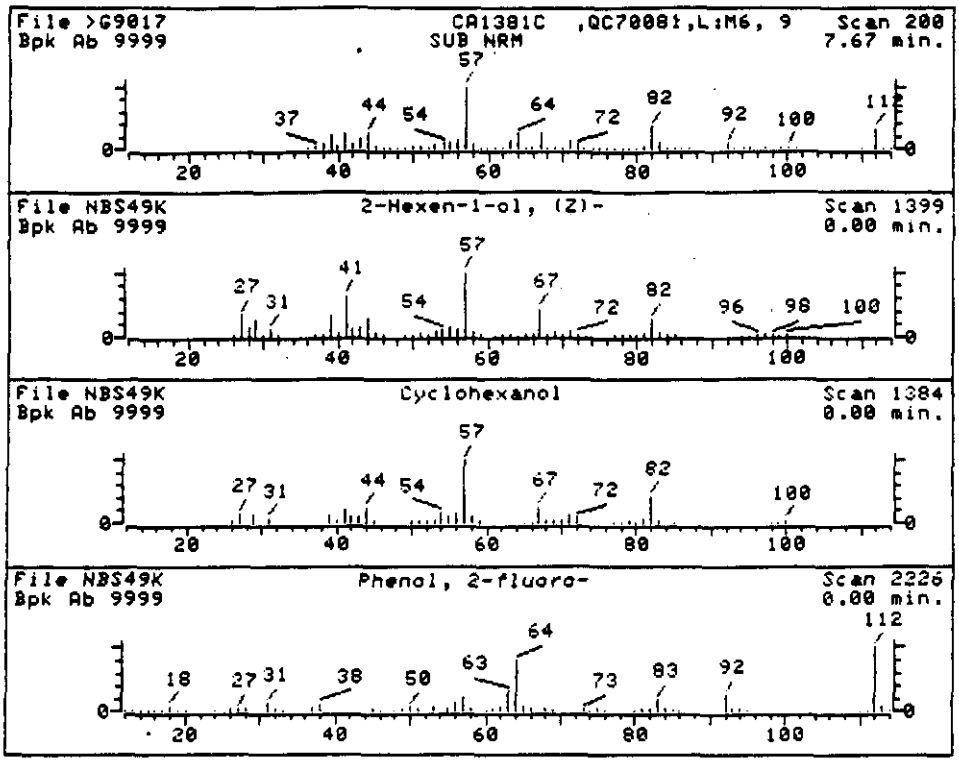


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 5.27
Scan: 82
Area: 4362286 Rank: 1
Semi-quantitative Conc (uncorrected): 258.23 UG/ML
Semi-quantitative Conc (corrected): 561.38 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1. Acetic acid, ethyl ester 88 C4H8O2

Sample file: >G9017 Spectrum #: 82
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	141786	2197	NBS49K	28	50	1	0	70	13	30	15

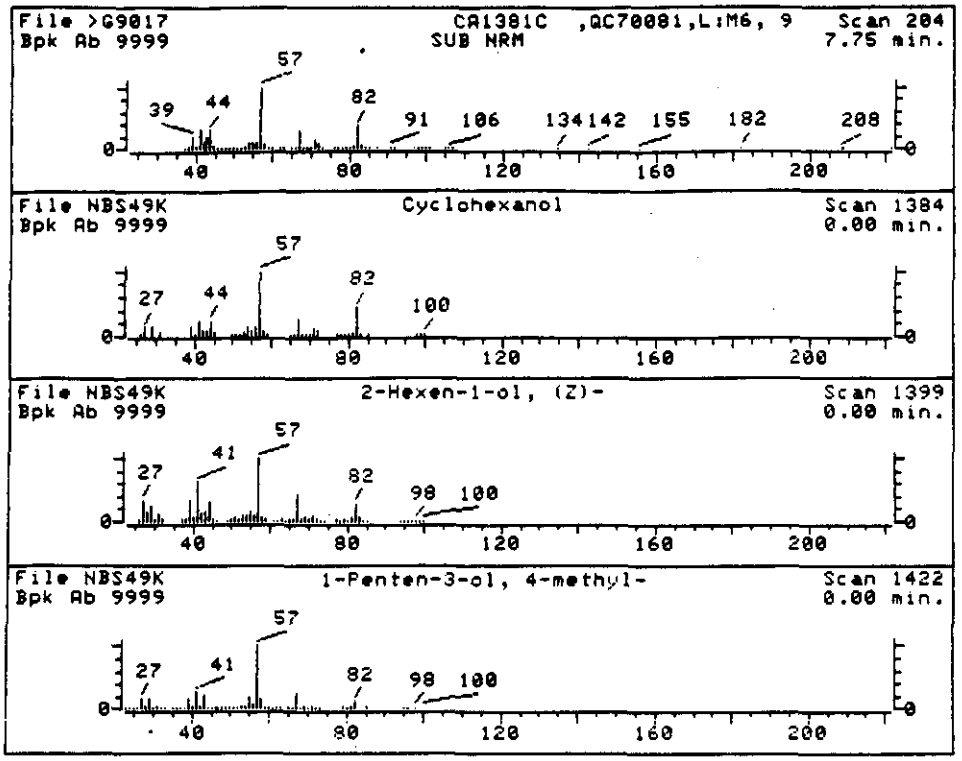


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 7.67
Scan: 200
Area: 2165267 Rank: 2
Semi-quantitative Conc (uncorrected): 128.18 UG/ML
Semi-quantitative Conc (corrected): 278.65 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1.	2-Hexen-1-ol, (Z)-	100	C6H12O
2.	Cyclohexanol	100	C6H12O
3.	Phenol, 2-fluoro-	112	C6H5FO

Sample file: >G9017 Spectrum #: 200
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	37*	928949	5870	NBS49K	53	45	2	0	89	41	12	28
2.	33	108930	5866	NBS49K	59	35	2	0	85	36	10	19
3.	32*	367124	2835	NBS49K	73	21	0	0	31	68	11	92

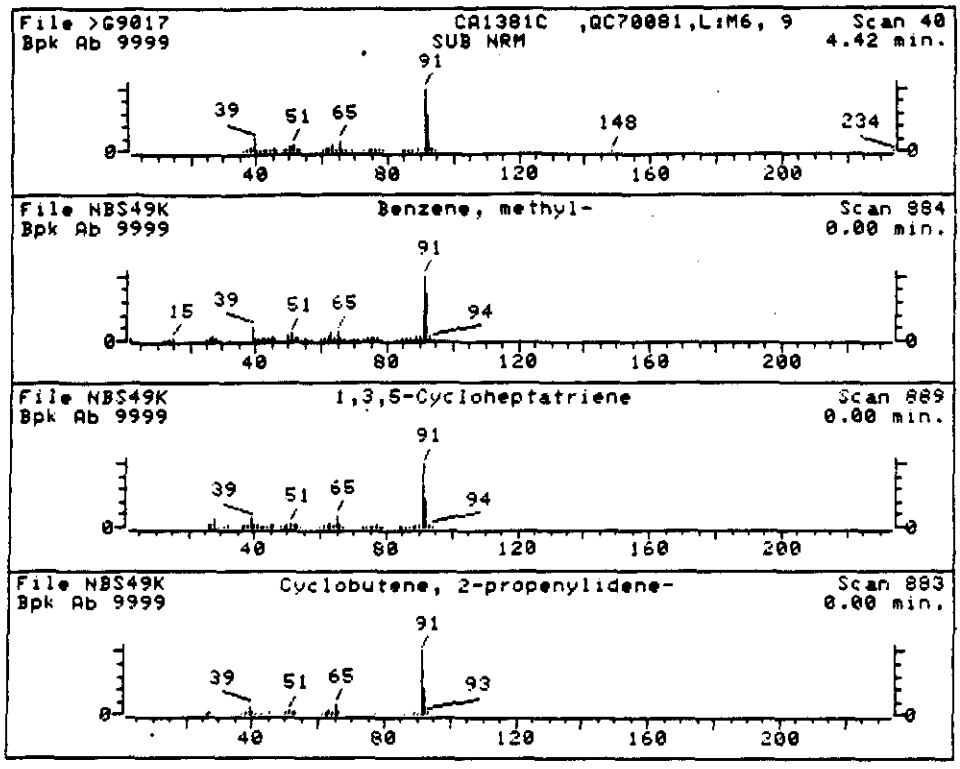


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 7.75
Scan: 204
Area: 1348964 Rank: 4
Semi-quantitative Conc (uncorrected): 79.85 UG/ML
Semi-quantitative Conc (corrected): 173.60 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1. Cyclohexanol 100 C6H12O
2. 2-Hexen-1-ol, (Z)- 100 C6H12O
3. 1-Penten-3-ol, 4-methyl- 100 C6H12O

Sample file: >G9017 Spectrum #: 204
Search speed: 2 Tilting option: S No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	65*	108930	5866	NBS49K	46	48	0	0	53	34	24	54
2.	50*	928949	5870	NBS49K	40	58	0	0	56	38	19	41
3.	35*	4798452	5873	NBS49K	23	61	3	0	100	29	14	12

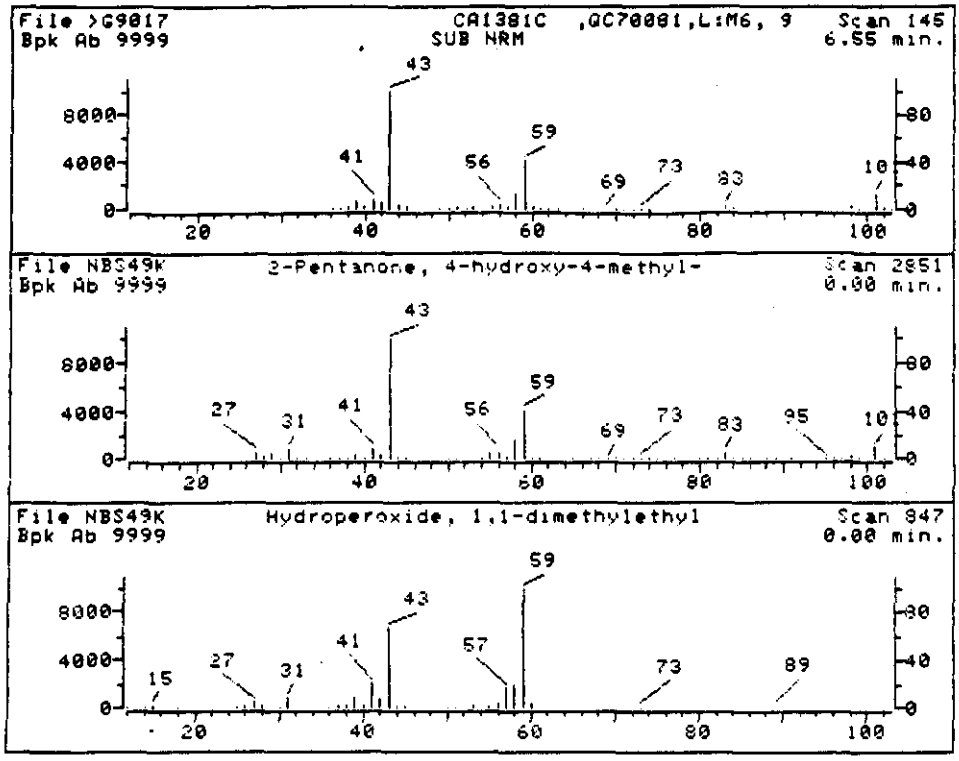


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 4.42
Scan: 40
Area: 843098 Rank: 5
Semi-quantitative Conc (uncorrected): 49.91 UG/ML
Semi-quantitative Conc (corrected): 108.50 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1.	Benzene, methyl-	92 C7H8
2.	1,3,5-Cycloheptatriene	92 C7H8
3.	Cyclobutene, 2-propenylidene-	92 C7H8

Sample file: >G9017 Spectrum #: 40
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	108883	8475	NBS49K	75	15	1	0	71	3	68	89
2.	87*	544252	8479	NBS49K	55	30	2	0	86	0	63	41
3.	79*	52097855	8474	NBS49K	50	29	2	0	100	6	48	31

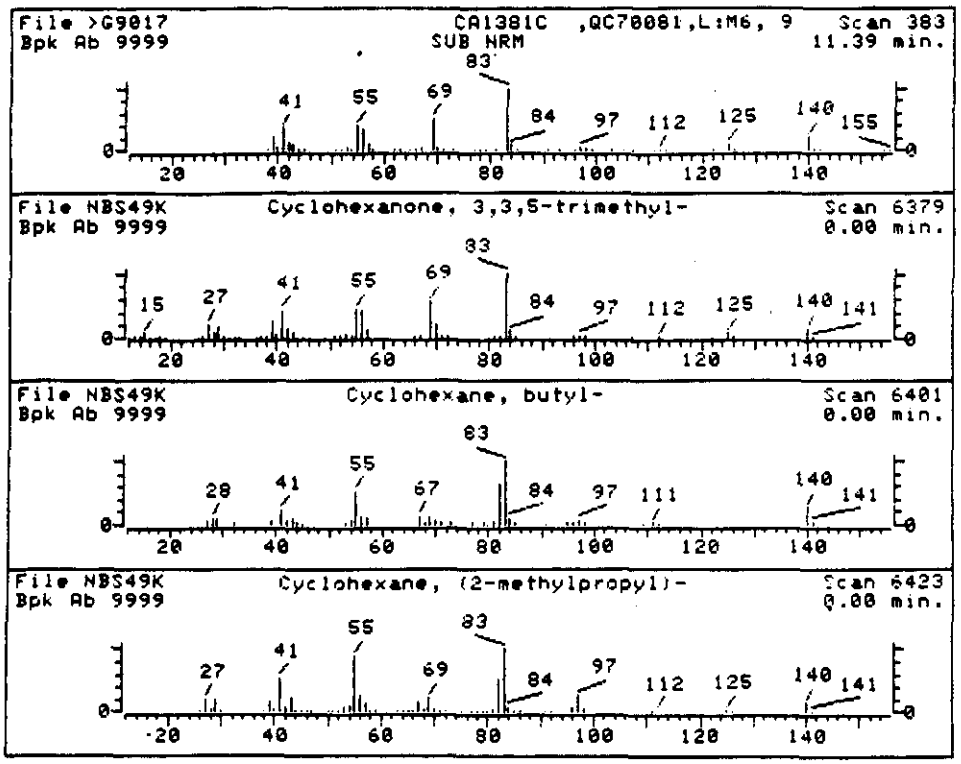


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 6.55
Scan: 145
Area: 663931 Rank: 6
Semi-quantitative Conc (uncorrected): 39.30 UG/ML
Semi-quantitative Conc (corrected): 85.44 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2
2. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9017 Spectrum #: 145
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	123422	1790	NBS49K	43	40	2	0	69	4	55	14
2.	20	75912	1733	NBS49K	34	31	1	0	35	51	5	12

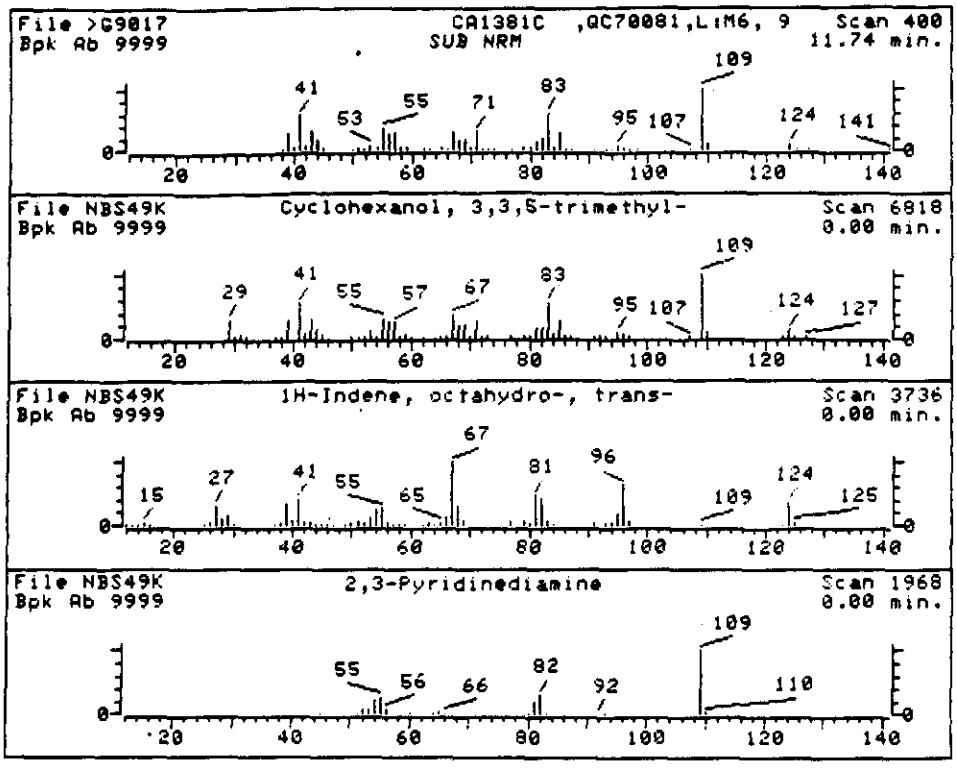


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 11.39
Scan: 383
Area: 271275 Rank: 10
Semi-quantitative Conc (uncorrected): 16.06 UG/ML
Semi-quantitative Conc (corrected): 34.91 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1.	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O
2.	Cyclohexane, butyl-	140	C10H20
3.	Cyclohexane, (2-methylpropyl)-	140	C10H20

Sample file: >G9017 Spectrum #: 383
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83*	873949	6185	NBS49K	71	31	1	0	83	11	51	71
2.	60*	1678939	17708	NBS49K	41	57	2	0	77	15	30	17
3.	60*	1678984	6188	NBS49K	39	64	3	0	100	11	30	13

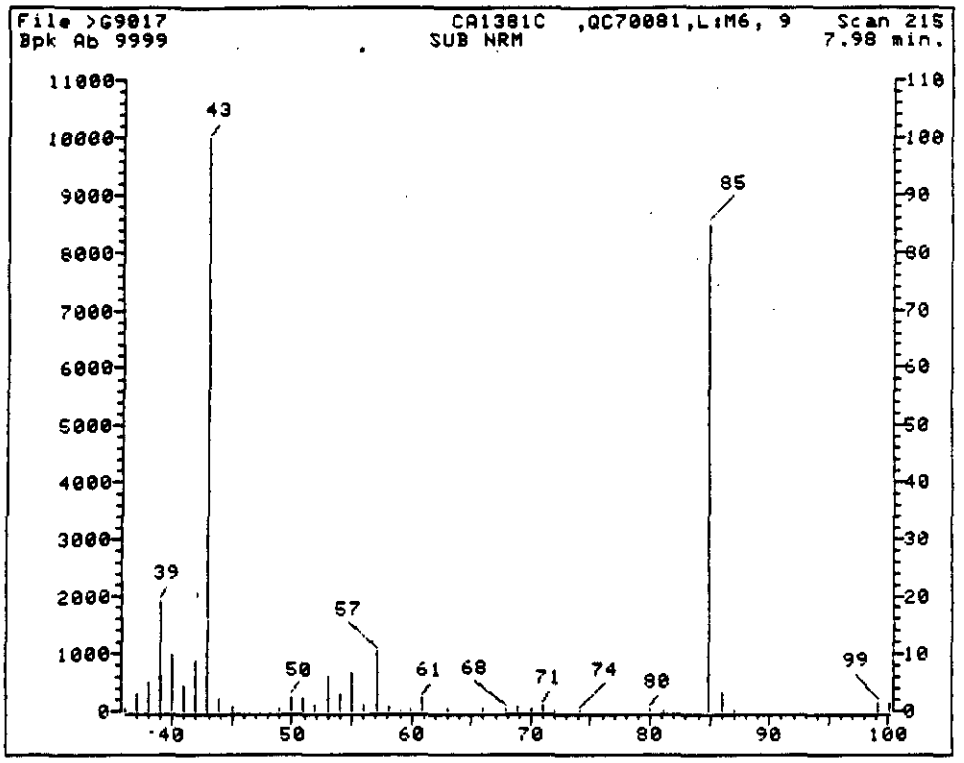


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 11.74
Scan: 400
Area: 256948 Rank: 11
Semi-quantitative Conc (uncorrected): 15.21 UG/ML
Semi-quantitative Conc (corrected): 33.07 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1.	Cyclohexanol, 3,3,5-trimethyl-	142 C9H18O
2.	1H-Indene, octahydro-, trans-	124 C9H16
3.	2,3-Pyridinediamine	109 C5H7N3

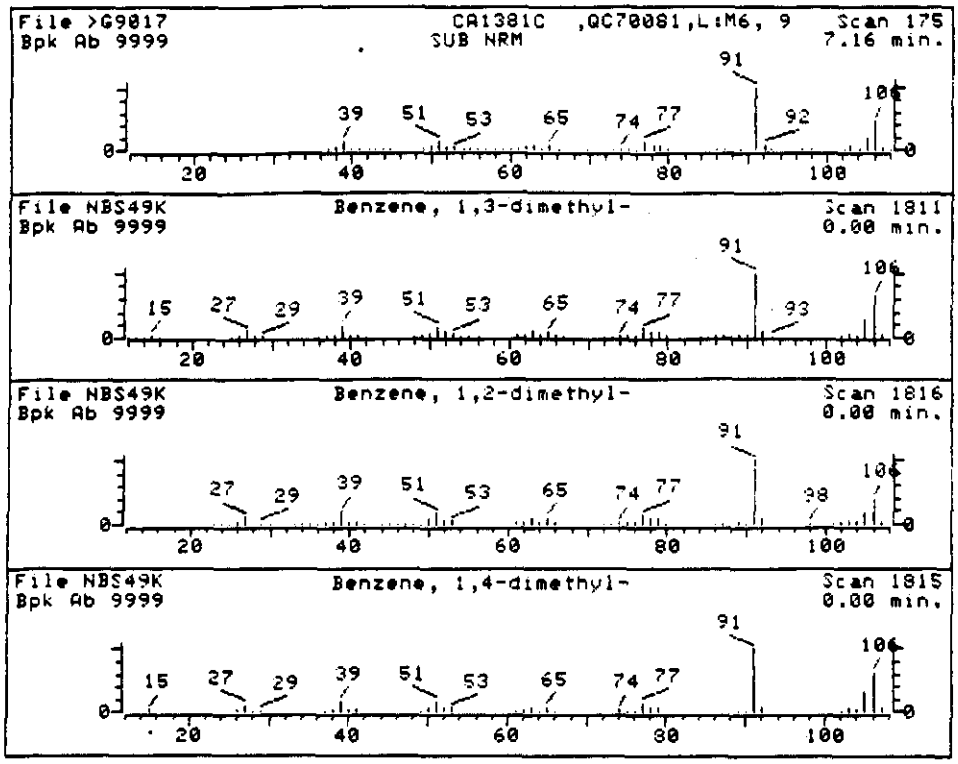
Sample file: >G9017 Spectrum #: 400
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	76	116029	11546	NBS49K	78	34	0	0	69	12	40	57
2.	28*	3296502	14251	NBS49K	51	45	3	1	25	45	8	16
3.	15*	452584	11494	NBS49K	37	44	2	0	67	57	3	18



Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 7.98
Scan: 215
Area: 197320 Rank: 12
Semi-quantitative Conc (uncorrected): 11.68 UG/ML
Semi-quantitative Conc (corrected): 25.39 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

No PBM hits for this scan.

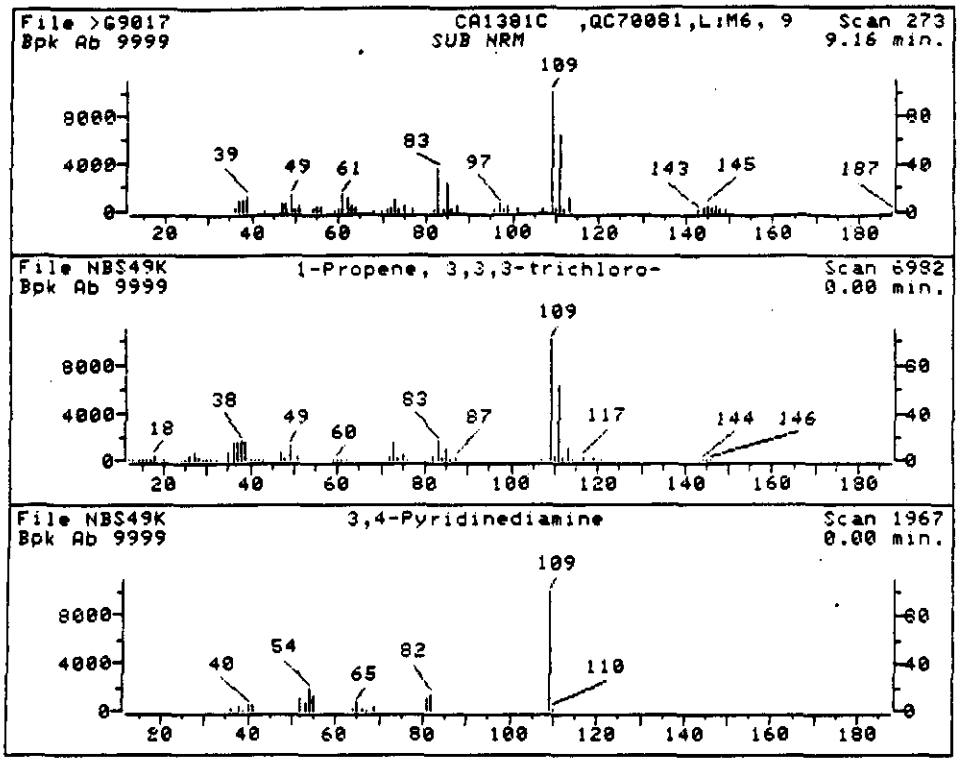


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 7.16
Scan: 175
Area: 162028 Rank: 13
Semi-quantitative Conc (uncorrected): 9.59 UG/ML
Semi-quantitative Conc (corrected): 20.85 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1. Benzene, 1,3-dimethyl- 106 C8H10
2. Benzene, 1,2-dimethyl- 106 C8H10
3. Benzene, 1,4-dimethyl- 106 C8H10

Sample file: >G9017 Spectrum #: 175
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IV
1.	92*	108383	11007	NBS49K	76	16	0	0	65	28	57	94
2.	89*	95476	11010	NBS49K	74	18	1	0	79	4	66	77
3.	67*	106423	11009	NBS49K	61	32	1	0	63	28	27	57

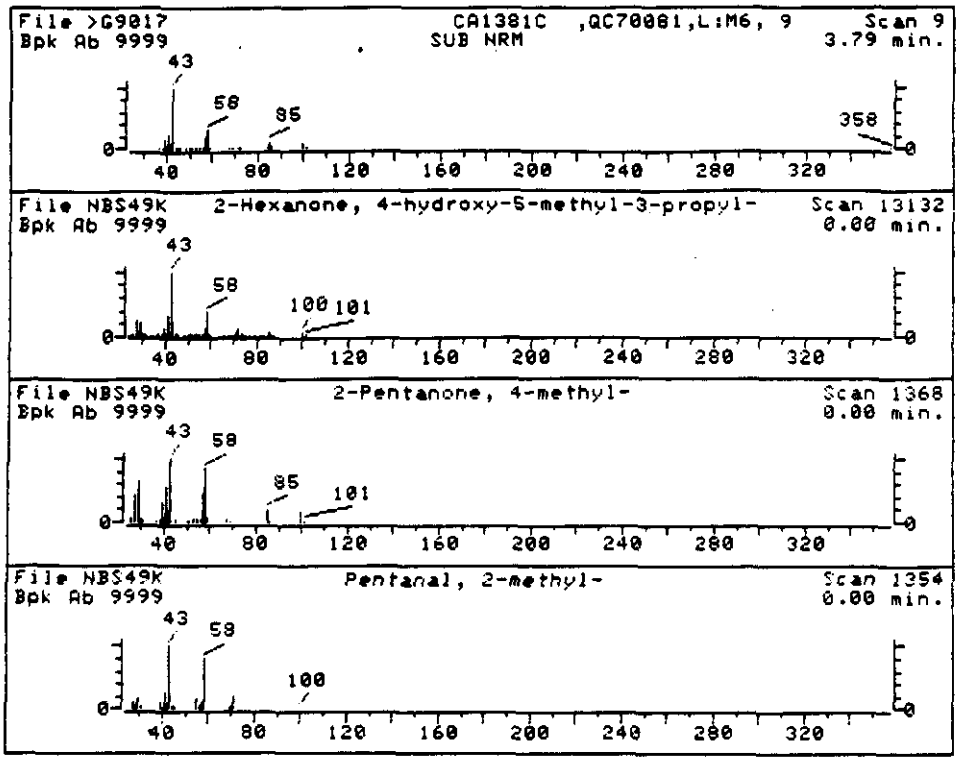


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 9.16
Scan: 273
Area: 134637 Rank: 15
Semi-quantitative Conc (uncorrected): 7.97 UG/ML
Semi-quantitative Conc (corrected): 17.33 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1. 1-Propene, 3,3,3-trichloro- 144 C3H3Cl3
2. 3,4-Pyridinediamine 109 C5H7N3

Sample file: >G9017 Spectrum #: 273
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	2233003	11547	NBS49K	36	77	2	0	60	41	8	14
2.	15*	54966	11493	NBS49K	22	60	3	0	100	60	3	12

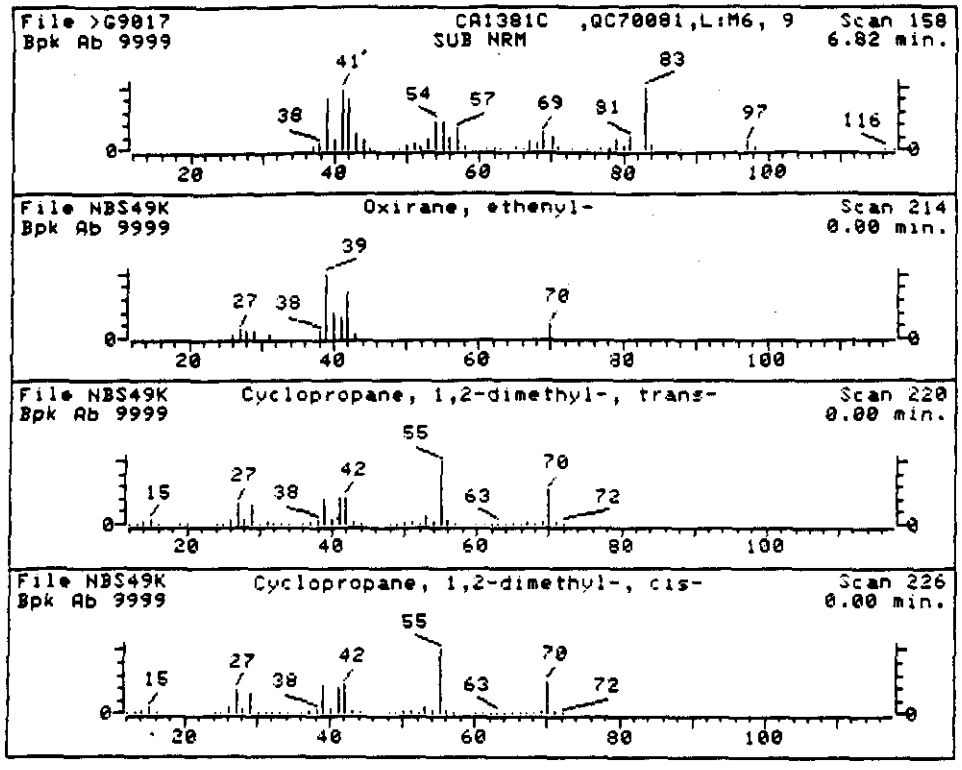


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 3.79
Scan: 9
Area: 129070 Rank: 16
Semi-quantitative Conc (uncorrected): 7.64 UG/ML
Semi-quantitative Conc (corrected): 16.61 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1.	2-Hexanone, 4-hydroxy-5-methyl-3-propyl-	172	C10H20O2
2.	2-Pentanone, 4-methyl-	100	C6H12O
3.	Pentanal, 2-methyl-	100	C6H12O

Sample file: >G9017 Spectrum #: 9
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I
1.	70	61141740	4670	NBS49K	42	46	2	0	74	10	42	13
2.	56*	108101	1369	NBS49K	48	34	0	0	32	45	18	61
3.	52*	123159	1367	NBS49K	22	58	3	0	100	18	20	12

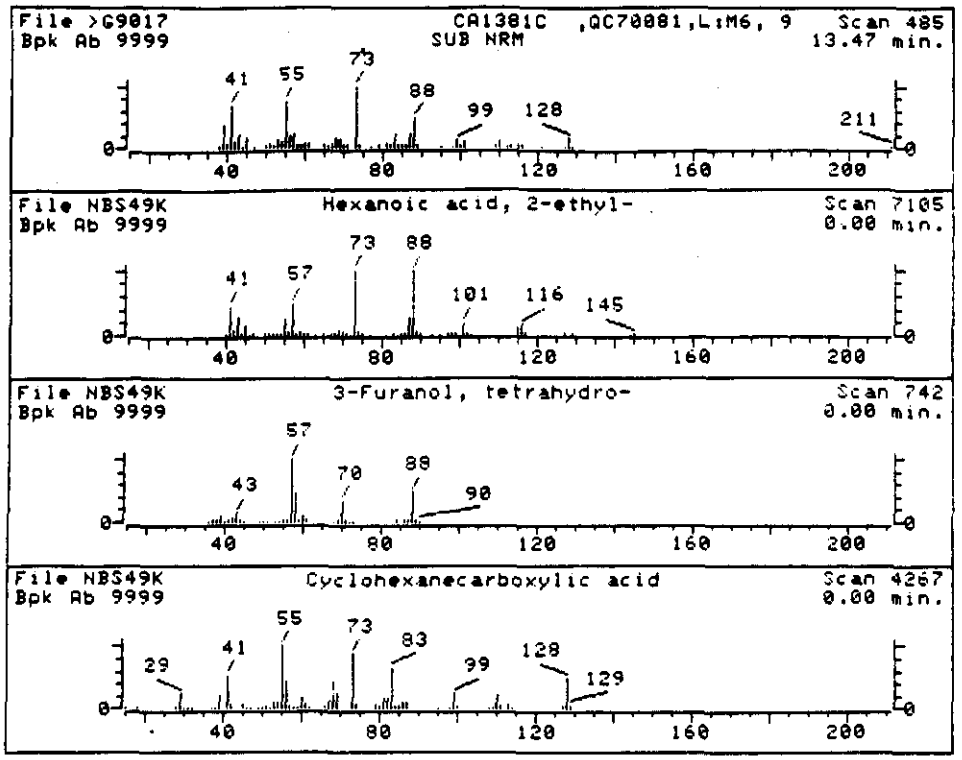


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 6.82
Scan: 158
Area: 108426 Rank: 17
Semi-quantitative Conc (uncorrected): 6.42 UG/ML
Semi-quantitative Conc (corrected): 13.95 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1.	Oxirane, ethenyl-	70 C4H6O
2.	Cyclopropane, 1,2-dimethyl-, trans-	70 C5H10
3.	Cyclopropane, 1,2-dimethyl-, cis-	70 C5H10

Sample file: >G9017 Spectrum #: 158
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	k	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29*	930223	3807	NBS49K	32	40	1	0	81	45	8	17
2.	25	2402064	3811	NBS49K	42	48	2	0	168	49	7	12
3.	25	930187	3817	NBS49K	42	49	2	0	165	49	7	12

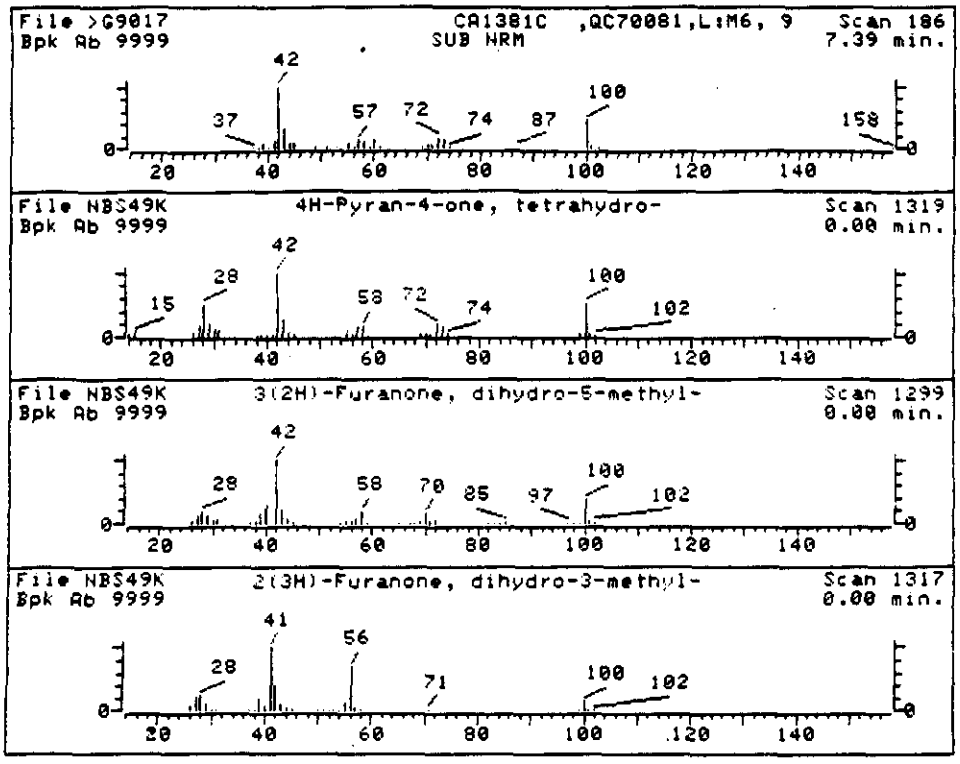


Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 13.47
Scan: 485
Area: 107822 Rank: 18
Semi-quantitative Conc (uncorrected): 6.87 UG/ML
Semi-quantitative Conc (corrected): 14.93 ug/l
Calculated using Istd: d8-Naphthalene @ 14.46 minutes

1.	Hexanoic acid, 2-ethyl-	144	C8H16O2
2.	3-Furanol, tetrahydro-	88	C4H8O2
3.	Cyclohexanecarboxylic acid	128	C7H12O2

Sample file: >G9017 Spectrum #: 485
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20	149575	7737	NBS49K	35	49	0	0	34	51	5	18
2.	15*	453203	7647	NBS49K	23	68	2	0	97	57	3	13
3.	12*	98895	15236	NBS49K	48	54	1	0	32	64	2	27



Data File: >G9017::U6
Name:
Misc Data: CA1381C ,QC70081,L:M6, 920,2 BTL# 8
RT (min): 7.39
Scan: 186
Area: 65642 Rank: 20
Semi-quantitative Conc (uncorrected): 3.89 UG/ML
Semi-quantitative Conc (corrected): 8.45 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.70 minutes

1. 4H-Pyran-4-one, tetrahydro- 100 C5H8O2
2. 3(2H)-Furanone, dihydro-5-methyl- 100 C5H8O2
3. 2(3H)-Furanone, dihydro-3-methyl- 100 C5H8O2

Sample file: >G9017 Spectrum #: 186
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	86*	29943428	10017	NBS49K	66	30	0	0	71	8	59	78
2.	42*	34003720	10006	NBS49K	34	60	3	0	100	22	17	13
3.	42*	1679476	10016	NBS49K	27	54	3	0	243	25	17	13

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1893C

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: >G8656

Level: (low/med) LOW Date Received: 10/3/89

% Moisture: not dec. dec. Date Extracted: 10/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	51	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	51	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1893C

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: >G8656

Level: (low/med) LOW Date Received: 10/3/89

% Moisture: not dec. dec. Date Extracted: 10/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	51	U
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	51	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1893C

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: >G8656

Level: (low/med) LOW Date Received: 10/3/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/13/89

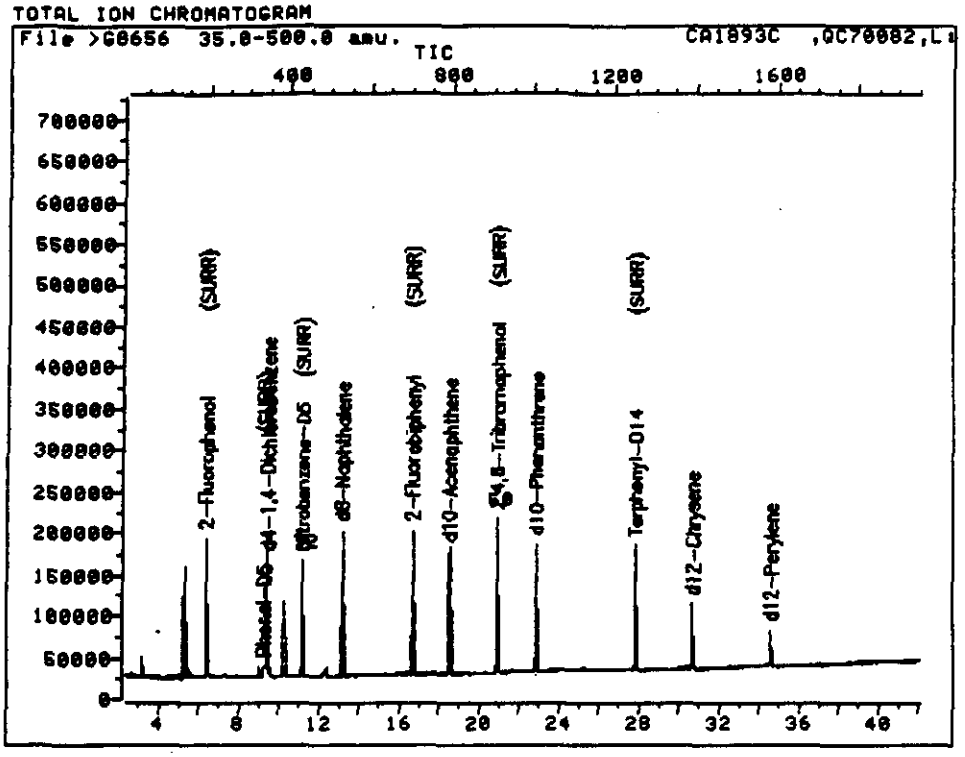
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 872-50-4	2-Pyrrolidinone, 1-methyl- (1	10.24	110	J
02.	UNKNOWN	5.24	100	JB
03. 149-57-5	Hexanoic acid, 2-ethyl- (8CI	12.36	19	J
04. 108-88-3	Benzene, methyl- (9CI)	3.14	8	JB

TOTAL ION CHROMATOGRAM



Data File: >G8656::U6 Quant Output File: ^G8656::AQ
Name:
Misc: CA1893C ,QC70082,L:M6, 980,2 BTL# 6

Id File: IG0120::US
Title: IFB/BNA
Last Calibration: 891013 15:35

Operator ID: CA3875
Quant Time: 891013 17:48
Injected at: 891013 17:03

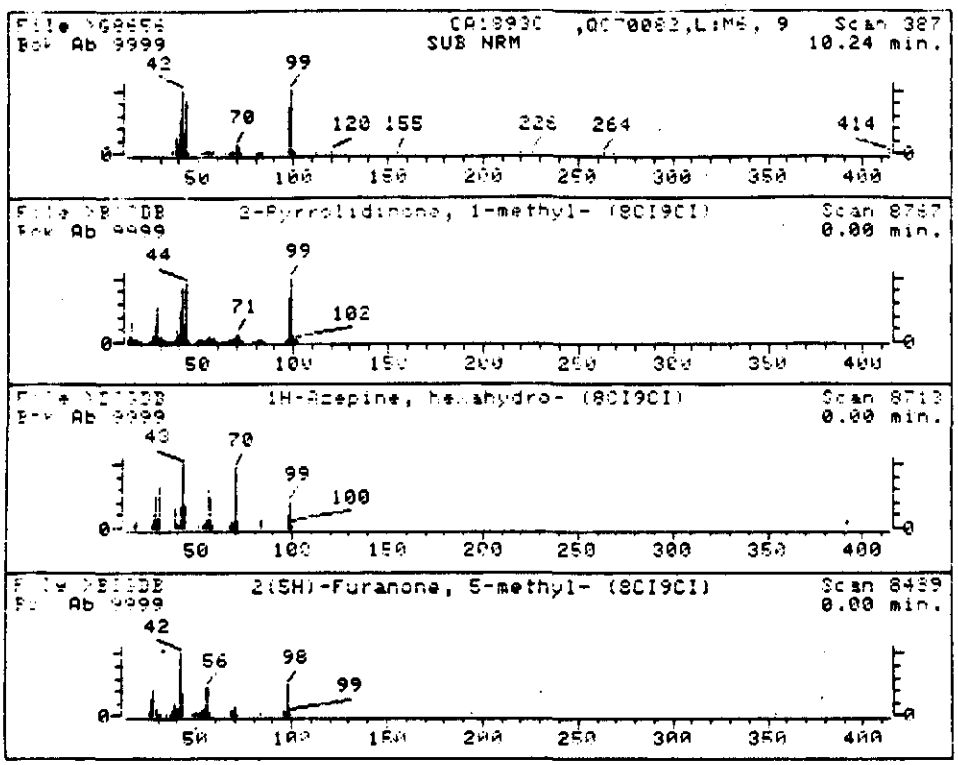
Operator ID: CA3875 Quant Rev: 7 Quant Time: 891013 17:48
Output File: ^G8656::AQ Injected at: 891013 17:03
Data File: >G8656::U6 Dilution Factor: 1.00000
Name:
Misc: CA1893C ,QC70082,L:M6, 980,2 BTL# 6

ID File: IG0120::US
Title: IFB/BNA
Last Calibration: 891013 15:35

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		9.43	347	103066	40.00	UG/ML	87
3)	2-Fluorophenol	(SURR)	6.34	195	88545	48.49	UG/ML	84
5)	Phenol-D5	(SURR)	9.25	338	16944	8.95	UG/ML	98
12)	N-Nitrosodi-n-propylamine		11.14	431	19312	~~14.46~~	~~UG/ML~~	38
17)	*d8-Naphthalene		13.13	529	182269	40.00	UG/ML	95
18)	Nitrobenzene-D5	(SURR)	11.14	431	118239	46.11	UG/ML	92
32)	*d10-Acenaphthene		18.49	792	97577	40.00	UG/ML	99
36)	2-Fluorobiphenyl	(SURR)	16.63	701	148752	39.08	UG/ML	99
50)	Fluorene		20.91	911	2488	~~.640~~	~~UG/ML~~	84
52)	2,4,6-Tribromophenol	(SURR)	20.91	911	60661	83.67	UG/ML	95
54)	*d10-Phenanthrene		22.84	1006	139214	40.00	UG/ML	97
65)	*d12-Chrysene		30.68	1391	78193	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	27.83	1251	137504	58.55	UG/ML	94
73)	*d12-Perylene		34.58	1583	48688	40.00	UG/ML	80

* Compound is ISTD

or 10/24/89

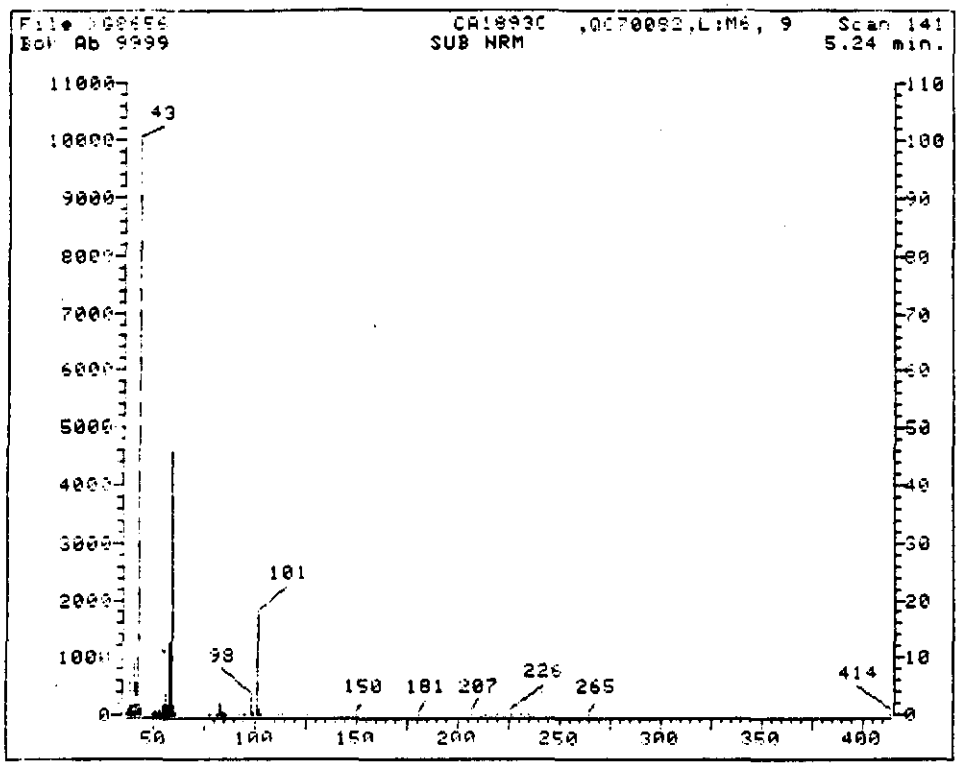


Data File: >G8656::U6
Name:
Misc Data: CA1893C ,QC70082,L:M6, 980,2 BTL# 6
RT (min): 10.24
Scan: 387
Area: 526980 Rank: 1
Semi-quantitative Conc (uncorrected): 53.30 UG/ML
Semi-quantitative Conc (corrected): 108.77 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 9.49 minutes

1. 2-Pyrrolidinone, 1-methyl- (8CI9CI) 99 C5H9NO
2. 1H-Azepine, hexahydro- (8CI9CI) 99 C6H13N
3. 2(5H)-Furanone, 5-methyl- (8CI9CI) 98 C5H6O2

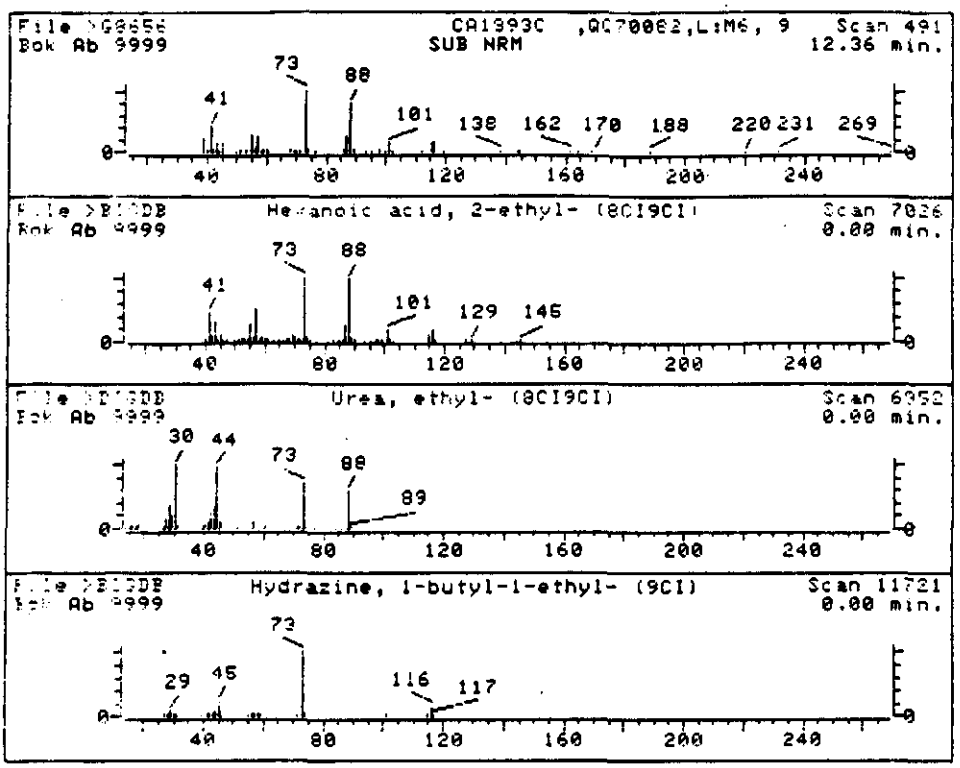
Sample file: >G8656 Spectrum #: 387
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DF	#F_G	TILT	%	CON	C_I	R_IV
1.	96*	872504	8767	"BIGDB	61	44	2	0	89	4	60	3
2.	78*	111499	8713	"BIGDB	23	91	3	0	245	4	59	12
3.	15*	591117	8489	"BIGDB	24	82	3	0	99	57	3	1



Data File: >G8656::U6
Name:
Misc Data: CA1893C ,QC70082,L:M6, 980,2 BTL# 6
RT (min): 5.24
Scan: 141
Area: 487571 Rank: 2
Semi-quantitative Conc (uncorrected): 49.31 UG/ML
Semi-quantitative Conc (corrected): 100.64 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 9.45 minutes

No PBM hits for this scan.

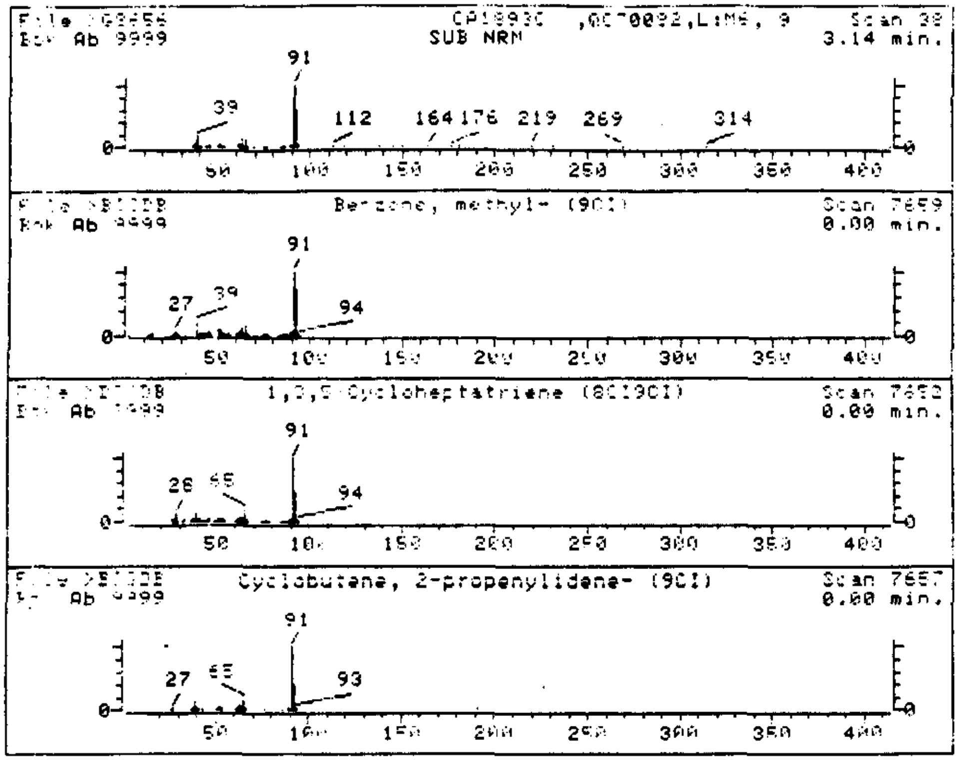


Data File: >G8656::U6
Name:
Misc Data: CA1893C ,QC70082,L:M6, 980,2 BTL# 6
RT (min): 12.36
Scan: 491
Area: 87792 Rank: 8
Semi-quantitative Conc (uncorrected): 9.34 UG/ML
Semi-quantitative Conc (corrected): 19.06 ug/l
Calculated using Istd: d8-Naphthalene @ 13.13 minutes

1.	Hexanoic acid, 2-ethyl- (8CI9CI)	144 C8H16O2
2.	Urea, ethyl- (8CI9CI)	88 C3H8N2O
3.	Hydrazine, 1-butyl-1-ethyl- (9CI)	116 C6H16N2

Sample File: >G8656 Spectrum #: 491
Search speed: 2 Tilting option: S No. of ion ranges searched: 4

	Prob.	CAS #	CON #	ROUT	K	DK	#F_G	TILT	%	CON	C_I	R_IV
1.	86*	149575	7026	"BIGDB	66	33	3	0	80	3	60	3
2.	42*	625525	6952	"BIGDB	27	74	3	0	138	29	17	13
3.	20*	52728960	11721	"BIGDB	37	45	3	0	100	85	5	1



Data File: >G8656::U6
Name:
Misc Data: CA1893C ,QC70092,L:M6, 980,2 BTL# 6
RT (min): 3.14
Scan: 38
Area: 38210 Rank: 10
Semi-quantitative Conc (uncorrected): 3.86 UG/ML
Semi-quantitative Conc (corrected): 7.89 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 9.45 minutes

1. Benzene, methyl- (9CI) 92 C7H8
2. 1,3,5-Cycloheptatriene (8CI9CI) 92 C7H8
3. Cyclobutene, 2-propenylidene- (9CI) 92 C7H8

Sample File: >G8656 Spectrum #: 38
Search speed: 2 Tilting option: S No. of ion ranges searched: [illegible]

	Prob.	CAS #	CON #	ROUT	K	DK	#F_G	TILT	%	CON	C_I	R_IV
1.	94*	108883	7659	"BI..DB	71	19	2	0	50	8	[illegible]	[illegible]
2.	[illegible]*	544252	7652	"BIGDB	45	40	0	0	76	21	[illegible]	[illegible]
3.	[illegible]*	52097855	7657	"BI..DB	48	31	3	0	100	[illegible]	[illegible]	[illegible]

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1894C

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: >G8657

Level: (low/med) LOW Date Received: 10/3/89

% Moisture: not dec. dec. Date Extracted: 10/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	52	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	52	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1894C

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: >G8657

Level: (low/med) LOW Date Received: 10/5/89

% Moisture: not dec. dec. Date Extracted: 10/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/13/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	52	U
100-02-7	4-Nitrophenol	52	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	52	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETC Corp. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1894C

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: >G8657

Level: (low/med) LOW Date Received: 10/3/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/13/89

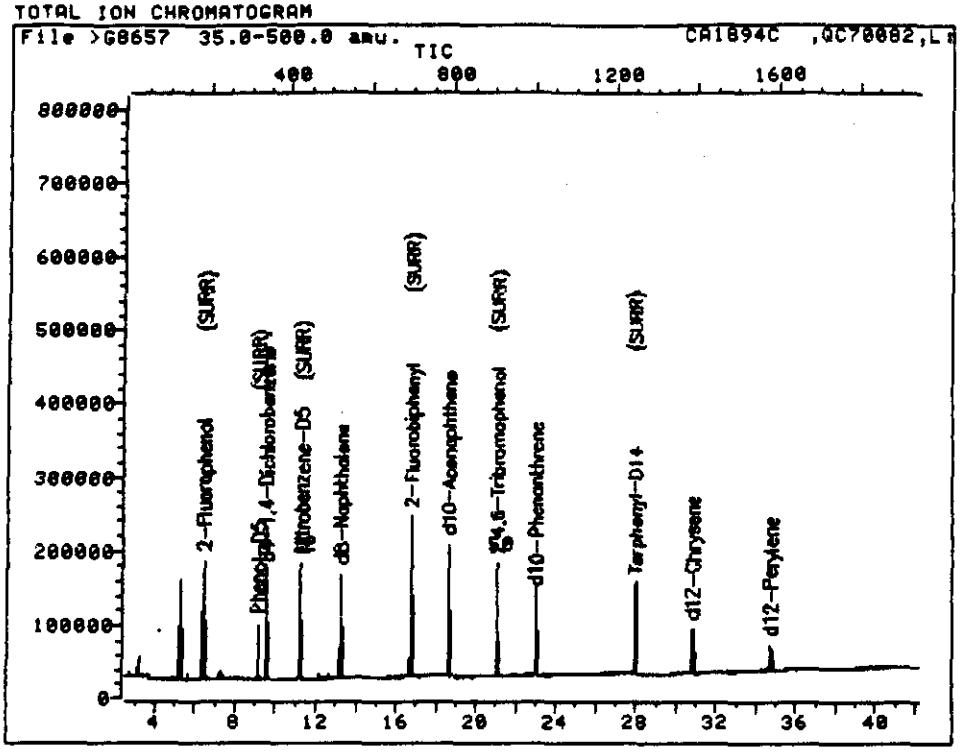
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01.	UNKNOWN	5.27	91	JB
02. 108-88-3	Benzene, methyl- (9CI)	3.13	10	JB

TOTAL ION CHROMATOGRAM



Data File: >G8657::U6 Quant Output File: ^G8657::AQ
Name:
Misc: CA1894C ,QC70082,L:M6, 960,2 BTL# 7

Id File: IG0120::US
Title: IFB/BNA
Last Calibration: 891013 15:35

Operator ID: CA3875
Quant Time: 891013 18:41
Injected at: 891013 17:56

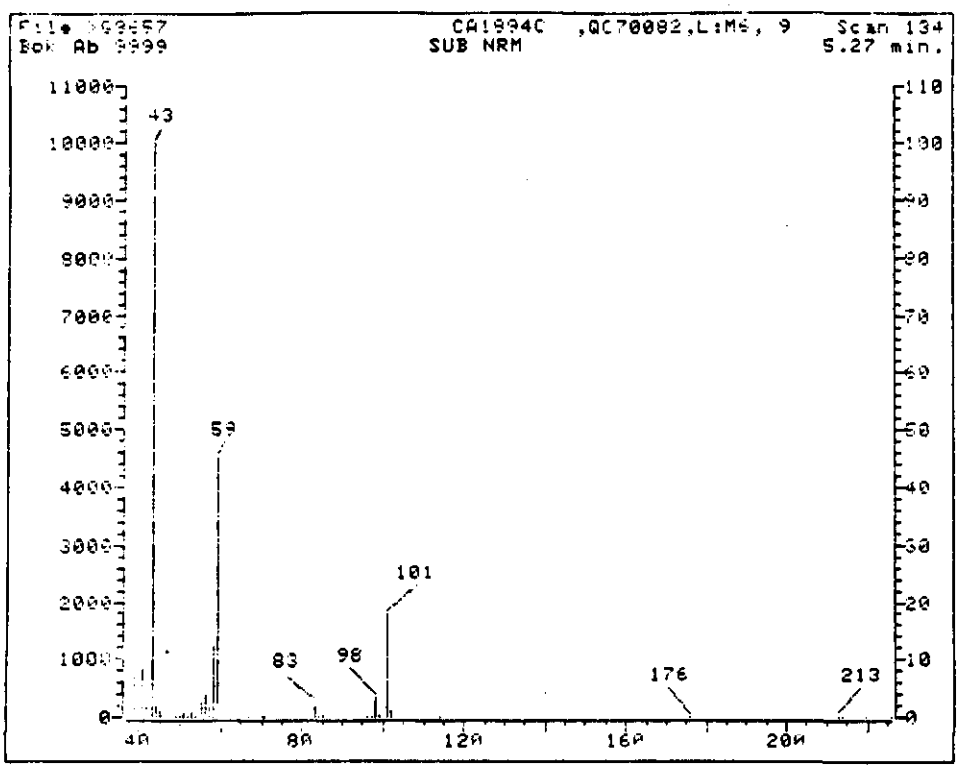
Operator ID: CA3875 Quant Rev: 7 Quant Time: 891013 18:41
Output File: ^G8657::AQ Injected at: 891013 17:56
Data File: >G8657::U6 Dilution Factor: 1.00000
Name:
Misc: CA1894C ,QC70082,L:M6, 960,2 BTL# 7

ID File: IG0120::US
Title: IFB/BNA
Last Calibration: 891013 15:35

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		9.52	343	106214	40.00	UG/ML	87
3)	2-Fluorophenol	(SURR)	6.39	189	85038	45.19	UG/ML	86
5)	Phenol-D5	(SURR)	9.12	323	57836	29.63	UG/ML	99
12)	N-Nitrosodi-n-propylamine		11.25	428	21536	~~15.64~~	~~UG/ML~~	38
17)	*d8-Naphthalene		13.23	525	188053	40.00	UG/ML	96
18)	Nitrobenzene-D5	(SURR)	11.25	428	132586	50.11	UG/ML	85
32)	*d10-Acenaphthene		18.60	789	92898	40.00	UG/ML	98
36)	2-Fluorobiphenyl	(SURR)	16.75	698	157911	43.58	UG/ML	99
50)	Fluorene		21.02	908	2250	~~.600~~	~~UG/ML~~	93
52)	2,4,6-Tribromophenol	(SURR)	21.02	908	52162	75.57	UG/ML	92
54)	*d10-Phenanthrene		22.96	1003	135671	40.00	UG/ML	96
65)	*d12-Chrysene		30.79	1388	72550	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	27.94	1248	146766	67.35	UG/ML	95
73)	*d12-Perylene		34.70	1580	42862	40.00	UG/ML	71

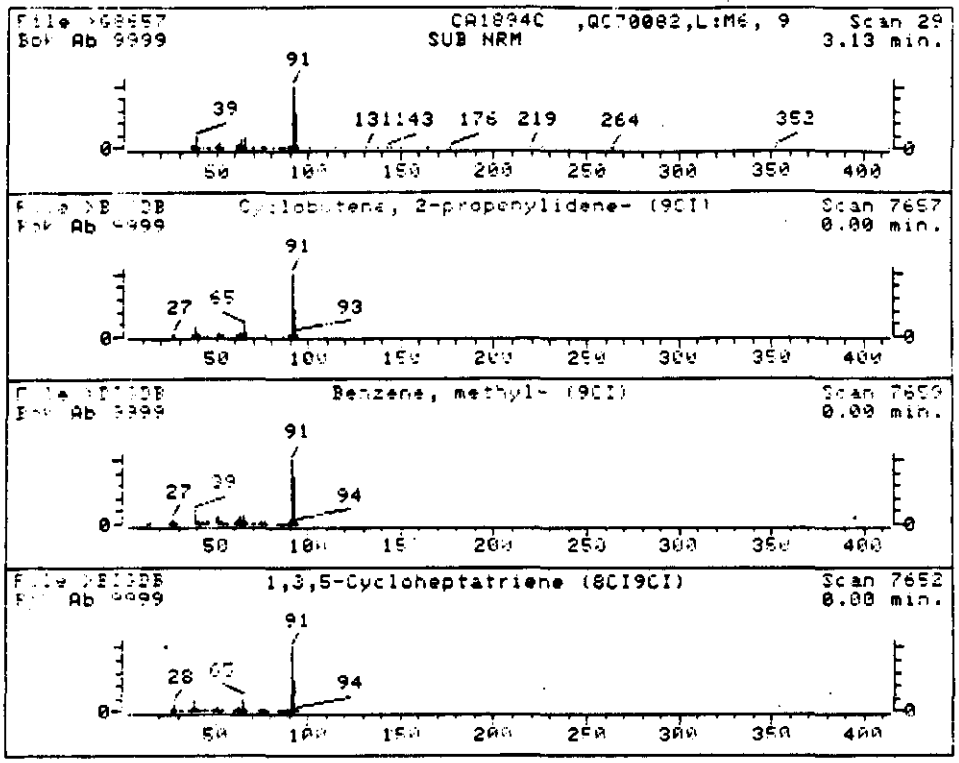
* Compound is ISTD

GT 10/24/89



Data File: >G8657::U6
Name:
Misc Data: CA1894C ,QC70082,L:M6, 960,2 BTL# 7
RT (min): 5.27
Scan: 134
Area: 447008 Rank: 2
Semi-quantitative Conc (uncorrected): 43.84 UG/ML
Semi-quantitative Conc (corrected): 91.33 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 9.54 minutes

No PBM hits for this scan.



Data File: >G8657::U6
Name:
Misc Data: CA1894C ,QC70082,L:M6, 960,2 BTL# 7
RT (min): 3.13
Scan: 29
Area: 51146 Rank: 5
Semi-quantitative Conc (uncorrected): 5.02 UG/ML
Semi-quantitative Conc (corrected): 10.45 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 9.54 minutes

1. Cyclobutene, 2-propenylidene- (9CI) 92 C7H8
2. Benzene, methyl- (9CI) 92 C7H8
3. 1,3,5-Cycloheptatriene (8CI9CI) 92 C7H8

Sample file: >G8657 Spectrum #: 29
Search speed: 2 Tilting option: S No. of ion ranges searched: 4

	Prob.	CAS #	CON #	ROOT	K	DF	#F_G	TILT	%	CON	C_I	R_IV
1.	91*	52097855	7657	"BIGDB	55	24	2	0	100	9	53	4_
2.	91*	108883	7659	"BIGDB	59	31	2	0	78	8	53	46
3.	64*	544252	7652	"BIGDB	40	45	0	0	81	22	18	4?

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA18995

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: >G8836

Level: (low/med) LOW Date Received: 10/04/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	52	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	52	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1895C

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: >G8836

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	52	U
100-02-7	4-Nitrophenol	52	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	52	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ETCNJ   Contract:

Lab Code: Case No.:   SAS No.:   SDG No.:

Matrix: (soil/water) WATER   Lab Sample ID: CA1895C

Sample wt/vol: 970.0 (g/mL) ML   Lab File ID: >G8836

Level: (low/med) LOW   Date Received: 10/05/89 4 ot 11/15/89

% Moisture: not dec.______ dec.______   Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF   Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N   pH:_____   Dilution Factor: 1

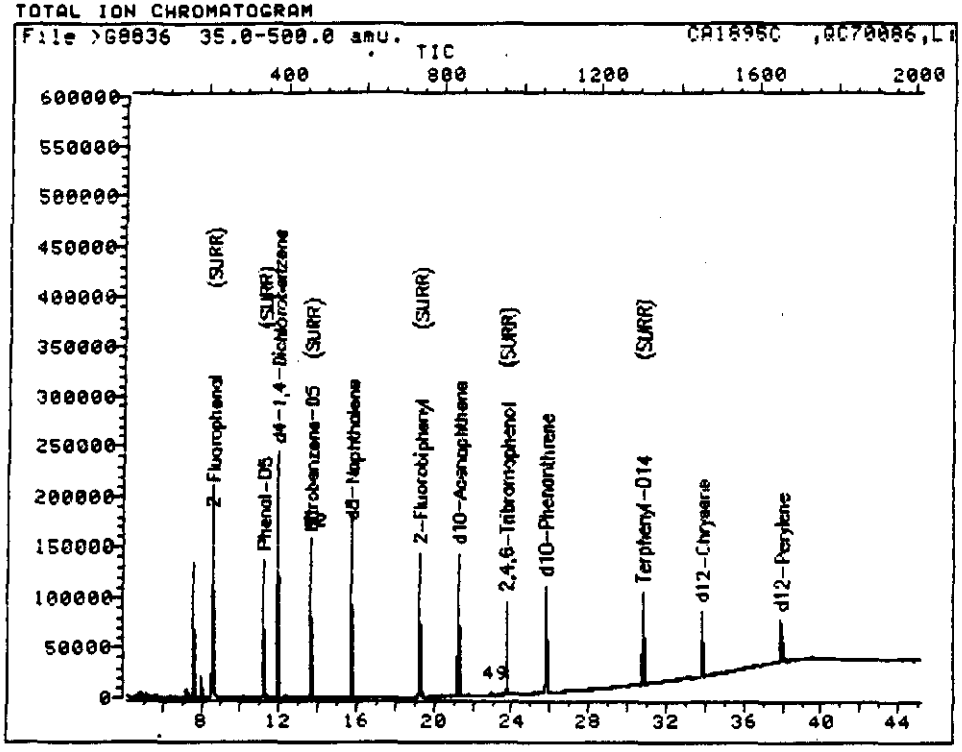
Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01.	UNKNOWN	7.52	44	JB

FORM I SV-TIC   626   1/87 Rev.

TOTAL ION CHROMATOGRAM



Data File: >G8836::U5 Quant Output File: ^G8836::AQ
Name:
Misc: CA1895C ,QC70086,L:M6, 970,2 BTL#41

Id File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

Operator ID: CA3875
Quant Time: 891030 11:29
Injected at: 891028 08:22

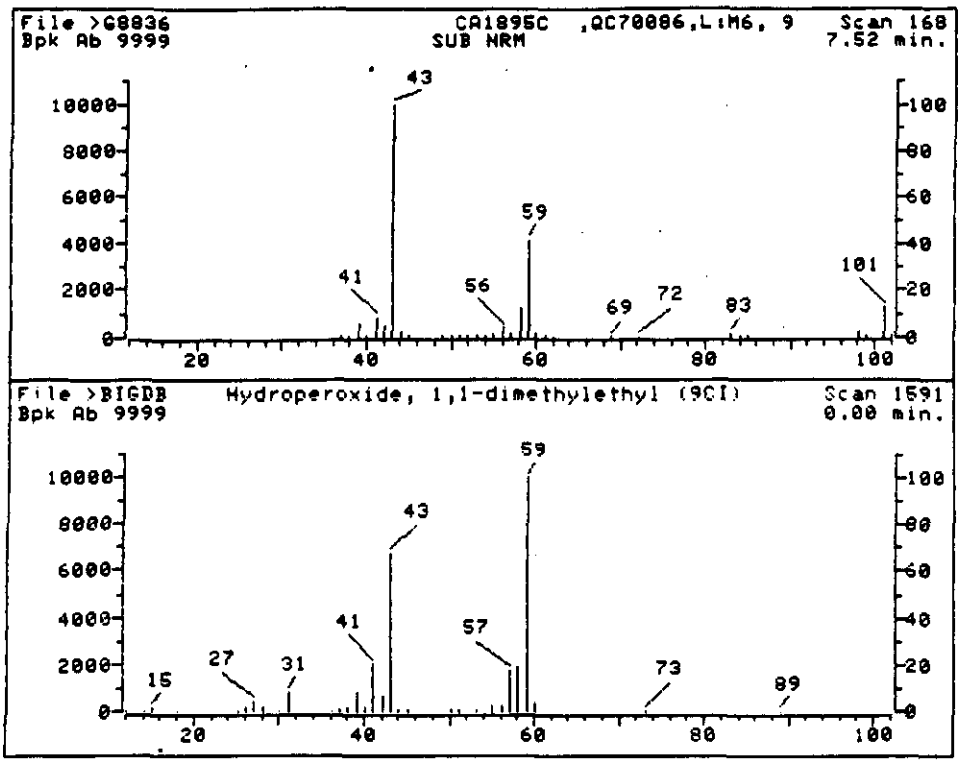
Operator ID: CA3875 Quant Rev: 7 Quant Time: 891030 11:29
Output File: ^G8836::AQ Injected at: 891028 08:22
Data File: >G8836::U5 Dilution Factor: 1.00000
Name:
Misc: CA1895C ,QC70086,L:M6, 970,2 BTL#41

ID File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		11.85	381	146364	40.00	UG/ML	88
3)	2-Fluorophenol	(SURR)	8.52	217	131211	49.84	UG/ML	83
5)	Phenol-D5	(SURR)	11.16	347	92378	30.23	UG/ML	93
12)	N-Nitrosodi-n-propylamine		13.58	466	21671	~~11.00 UG~~/ML		38
17)	*d8-Naphthalene		15.67	569	235923	40.00	UG/ML	93
18)	Nitrobenzene-D5	(SURR)	13.56	465	137580	43.04	UG/ML	90
32)	*d10-Acenaphthene		21.20	841	86570	40.00	UG/ML	98
36)	2-Fluorobiphenyl	(SURR)	19.21	743	135692	41.77	UG/ML	99
49)	Diethyl phthalate		22.91	925	2578	~~.765 UG~~/ML		92
52)	2,4,6-Tribromophenol	(SURR)	23.66	962	31801	63.38	UG/ML	95
54)	*d10-Phenanthrene		25.69	1062	110631	40.00	UG/ML	97
65)	*d12-Chrysene		33.80	1460	66026	40.00	UG/ML	97
67)	Terphenyl-D14	(SURR)	30.72	1309	101153	58.91	UG/ML	94
73)	*d12-Perylene		37.88	1660	56002	40.00	UG/ML	86

* Compound is ISTD

ET 11/15/89



Data File: >G8836::U5
Name:
Misc Data: CA1895C ,QC70086,L:M6, 970,2 BTL#41
RT (min): 7.52
Scan: 168
Area: 303609 Rank: 4
Semi-quantitative Conc (uncorrected): 21.45 UG/ML
Semi-quantitative Conc (corrected): 44.22 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1. Hydroperoxide, 1,1-dimethylethyl (9CI) 90 C4H10O2

Sample file: >G8836 Spectrum #: 168
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	25	75912	1591	"BIGDB	34	31	1	0	38	50	7	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1896C

Sample wt/vol: 870.0 (g/mL) ML Lab File ID: >G8837

Level: (low/med) LOW Date Received: 10/05/89 or 11/5/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	4	J
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	57	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	57	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	57	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

630

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1896C

Sample wt/vol: 870.0 (g/mL) ML Lab File ID: >G8837

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	57	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	57	U
100-02-7	4-Nitrophenol	57	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	57	U
534-52-1	4,6-Dinitro-2-methylphenol	57	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	57	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water)WATER Lab Sample ID: CA1896

Sample wt/vol: 870.0 (g/mL)ML Lab File ID: >G8837

Level: (low/med) LOW Date Received: 10/04/89 or 10/05/89

% Moisture: not dec._____ dec._____ Date Extracted:10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

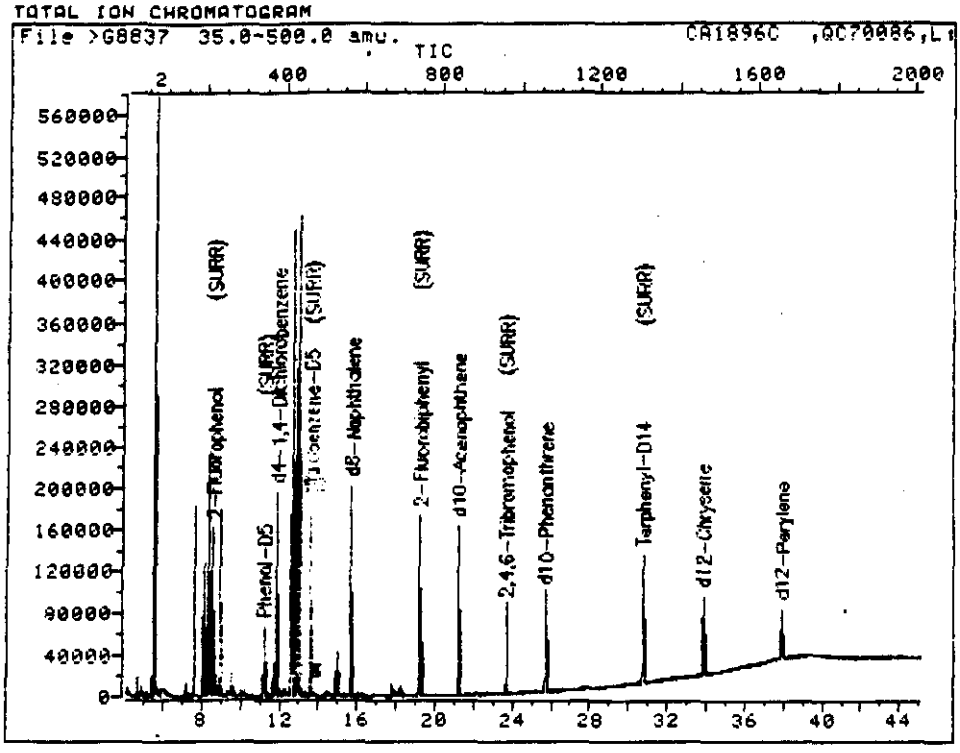
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 116-02-9	Cyclohexanol, 3,3,5-trimethyl	12.89	260	J
02. 108-88-3	Benzene, methyl- (9CI)	5.53	260	J
03. 873-94-9	Cyclohexanone, 3,3,5-trimeth	12.58	250	J
04.	Dimethyl-benzene isomer	8.31	120	J
05.	Dimethyl-benzene isomer	8.92	75	J
06.	UNKNOWN	7.54	69	JB
07. 100-41-4	Benzene, ethyl- (8CI9CI)	8.09	50	J
08. 498-81-7	Cyclohexanemethanol, .alpha.	14.92	21	J
09. 20324-32-7	2-Propanol, 1-(2-methoxy-1-m	11.67	13	J
10.	UNKNOWN	11.77	11	J
11.	UNKNOWN	4.65	9	J

TOTAL ION CHROMATOGRAM



Data File: >G8837::U5 Quant Output File: ^G8837::AQ
Name:
Misc: CA1896C ,QC70086,L:M6, 870,2 BTL#42

Id File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

Operator ID: CA3875
Quant Time: 891030 11:43
Injected at: 891028 09:17

Operator ID: CA3875 Quant Rev: 7 Quant Time: 891030 11:43
Output File: ^G8837::AQ Injected at: 891028 09:17
Data File: >G8837::U5 Dilution Factor: 1.00000
Name:
Misc: CA1896C ,QC70086,L:M6, 870,2 BTL#42

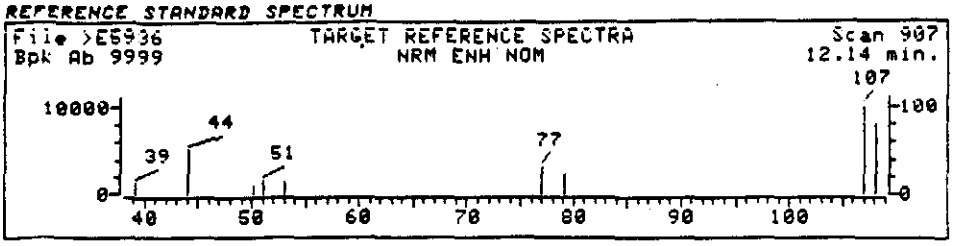
ID File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		11.85	382	129870	40.00	UG/ML	87
2)	N-Nitrosodimethylamine		5.53	71	7031	~~3.60~~	~~UG/ML~~	100
3)	2-Fluorophenol	(SURR)	8.54	219	90082	38.56	UG/ML	96
5)	Phenol-D5	(SURR)	11.18	349	65918	24.16	UG/ML	92
12)	N-Nitrosodi-n-propylamine		13.58	467	20508	~~11.74~~	~~UG/ML~~	38
14)	2-Methylphenol		13.34	455	2891	~~1.75~~	~~UG/ML~~	87
15)	4-Methylphenol		13.34	455	2891	1.63	UG/ML	96
17)	*d8-Naphthalene		15.69	571	221880	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	13.58	467	129712	43.15	UG/ML	89
32)	*d10-Acenaphthene		21.20	842	87083	40.00	UG/ML	97
36)	2-Fluorobiphenyl	(SURR)	19.21	744	138633	42.43	UG/ML	99
52)	2,4,6-Tribromophenol	(SURR)	23.64	962	34587	68.52	UG/ML	94
54)	*d10-Phenanthrene		25.68	1062	112704	40.00	UG/ML	96
65)	*d12-Chrysene		33.81	1461	81033	40.00	UG/ML	97
67)	Terphenyl-D14	(SURR)	30.73	1310	123209	58.47	UG/ML	94
73)	*d12-Perylene		37.89	1661	61578	40.00	UG/ML	87

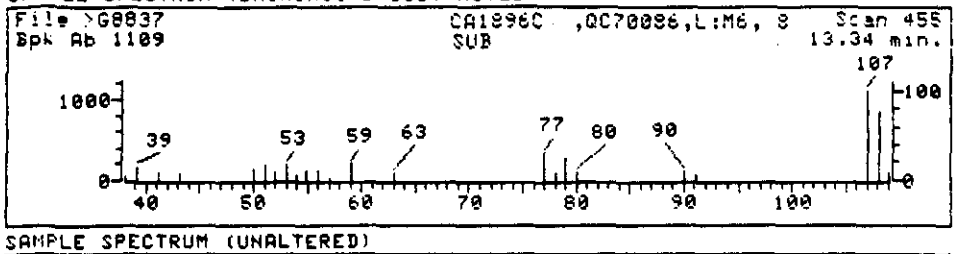
* Compound is ISTD

ET 11/15/89

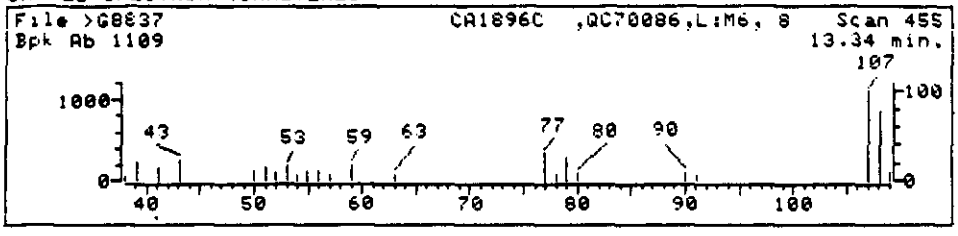
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

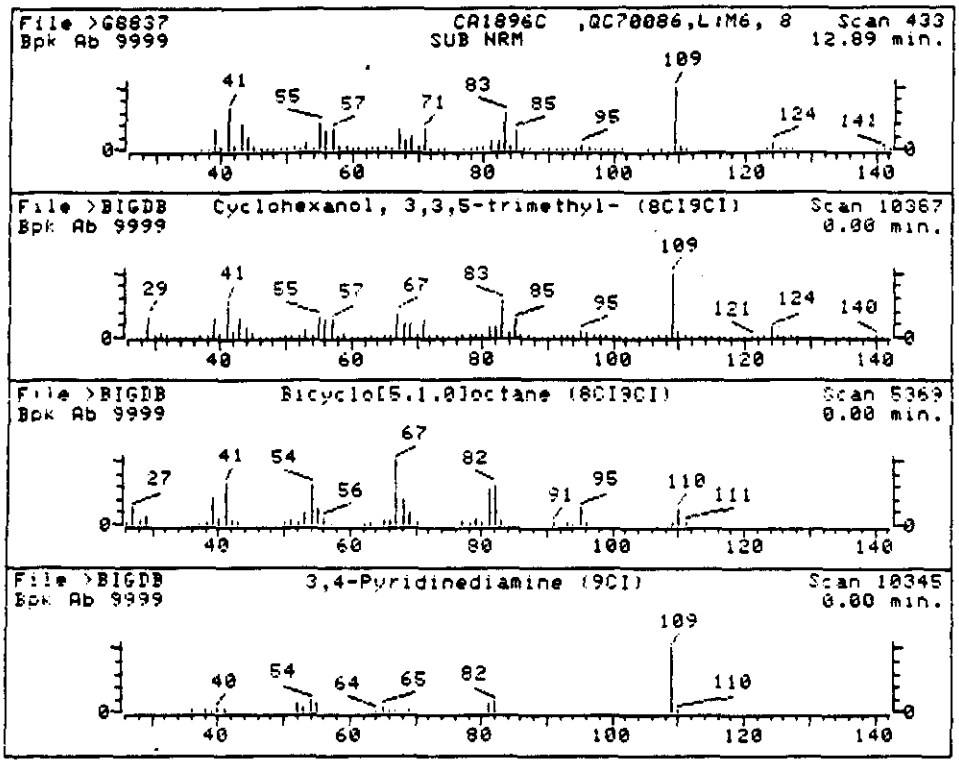


SAMPLE SPECTRUM (UNALTERED)



Data File: >G8837::U5 Quant Output File: ^G8837::AQ
Name:
Misc: CA1896C ,QC70086,L:M6, 870,2 BTL#42
Quant Time: 891030 11:43 Quant ID File: IG0125::US
Injected at: 891028 09:17 Last Calibration: 891030 11:15

Compound No: 15
Compound Name: 4-Methylphenol
Scan Number: 455
Retention Time: 13.34 min.
Quant Ion: 107.0
Area: 2891
Concentration: 1.63 UG/ML
q-value: 96

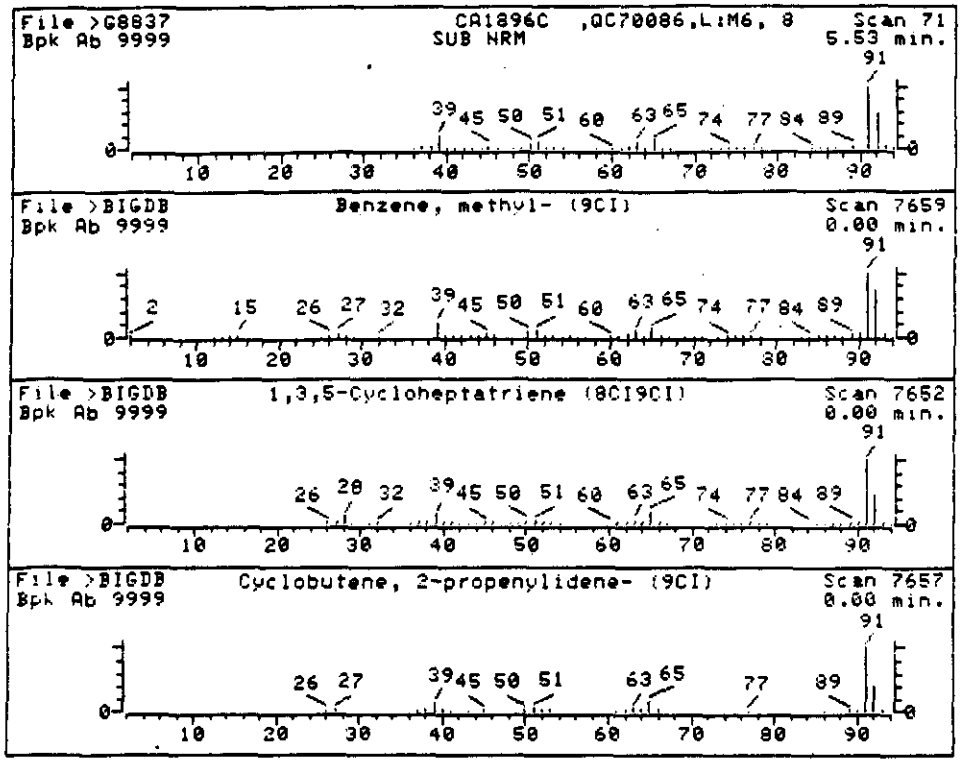


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 12.89
Scan: 433
Area: 1400159 Rank: 1
Semi-quantitative Conc (uncorrected): 113.68 UG/ML
Semi-quantitative Conc (corrected): 261.33 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1. Cyclohexanol, 3,3,5-trimethyl- (8CI9CI) 142 C9H18O
2. Bicyclo[5.1.0]octane (8CI9CI) 110 C8H14
3. 3,4-Pyridinediamine (9CI) 109 C5H7N3

Sample file: >G8837 Spectrum #: 433
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	116029	10387	"BIGDB	103	9	1	1	74	5	66	66
2.	25*	286471	5369	"BIGDB	43	41	2	2	17	48	7	15
3.	11*	54966	10345	"BIGDB	27	55	2	0	8?	61	2	14

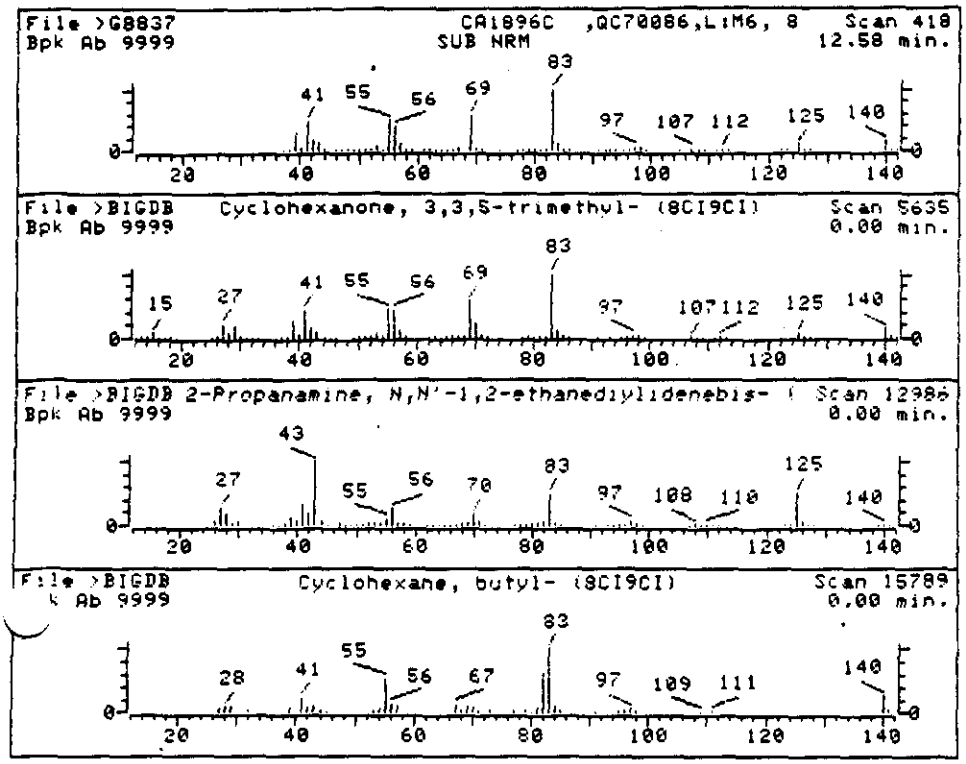


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 5.53
Scan: 71
Area: 1387383 Rank: 2
Semi-quantitative Conc (uncorrected): 112.64 UG/ML
Semi-quantitative Conc (corrected): 258.94 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1. Benzene, methyl- (9CI) 92 C7H8
2. 1,3,5-Cycloheptatriene (8CI9CI) 92 C7H8
3. Cyclobutene, 2-propenylidene- (9CI) 92 C7H8

Sample File: >G8837 Spectrum #: 71
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	93*	108883	7659	"BIGDB	75	15	1	0	69	3	68	8[illegible]
2.	87*	544252	7652	"BIGDB	55	30	2	0	84	0	63	41
3.	79*	52097855	7657	"BIGDB	51	28	2	0	100	6	48	3[illegible]

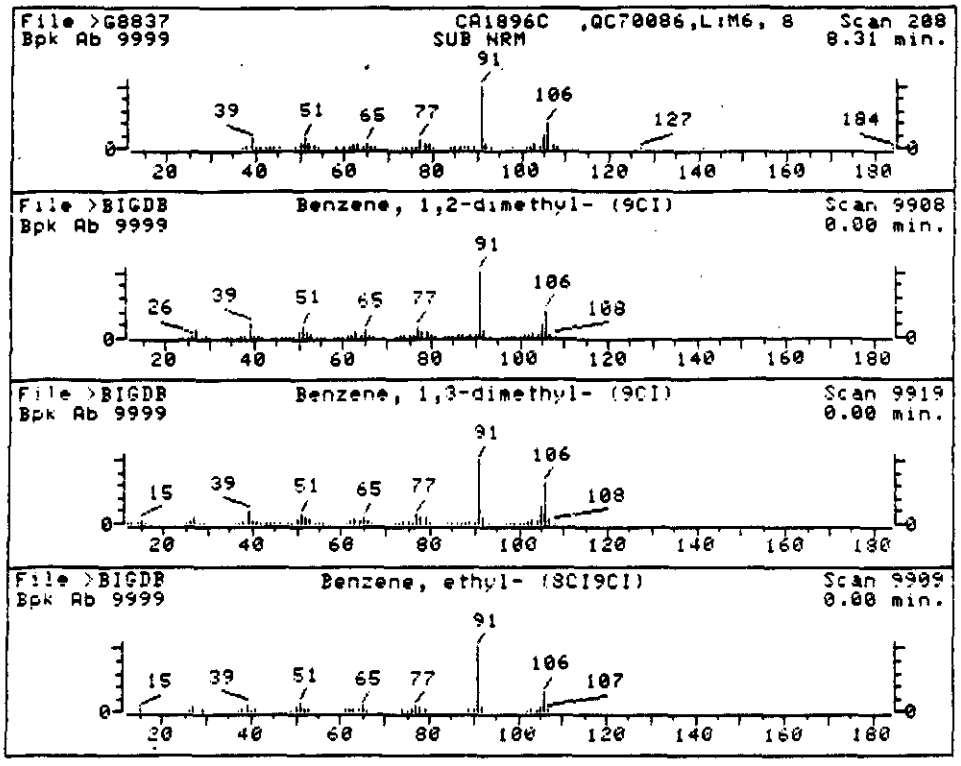


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 12.58
Scan: 418
Area: 1330100 Rank: 3
Semi-quantitative Conc (uncorrected): 107.99 UG/ML
Semi-quantitative Conc (corrected): 248.25 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1.	Cyclohexanone, 3,3,5-trimethyl- (8CI9CI)	140	C9H16O
2.	2-Propanamine, N,N'-1,2-ethanediylidenebis- (9CI)	140	C8H16N2
3.	Cyclohexane, butyl- (8CI9CI)	140	C10H20

Sample file: >G8837 Spectrum #: 418
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	873949	5635	"BIGDB	84	18	1	0	90	4	68	80
2.	60*	24764907	12986	"BIGDB	24	72	3	0	144	13	30	12
3.	52*	1678439	15789	"BIGDB	41	57	2	1	70	18	20	14

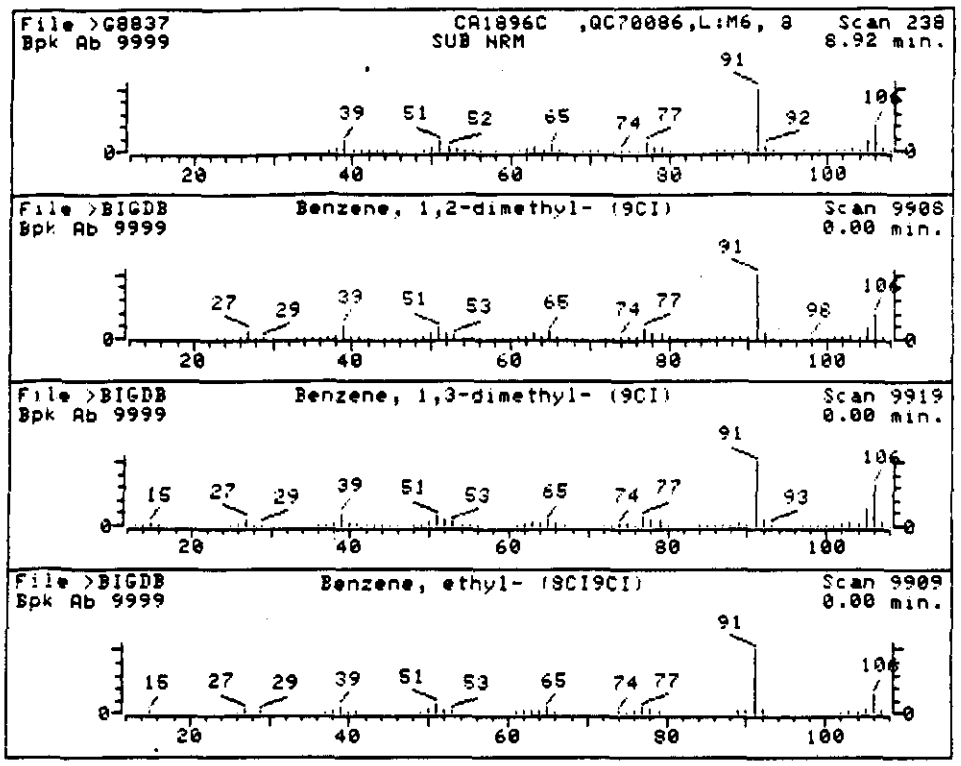


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 8.31
Scan: 208
Area: 628452 Rank: 4
Semi-quantitative Conc (uncorrected): 51.02 UG/ML
Semi-quantitative Conc (corrected): 117.30 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1.	Benzene, 1,2-dimethyl- (9CI)	106	C8H10
2.	Benzene, 1,3-dimethyl- (9CI)	106	C8H10
3.	Benzene, ethyl- (8CI9CI)	106	C8H10

Sample file: >G8837 Spectrum #: 208
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_I
1.	95*	95476	9908	"BIGDB	79	13	1	0	74	4	72	93
2.	85*	108383	9919	"BIGDB	69	23	0	0	61	28	43	8
3.	74*	100414	9909	"BIGDB	58	26	2	0	100	12	39	44

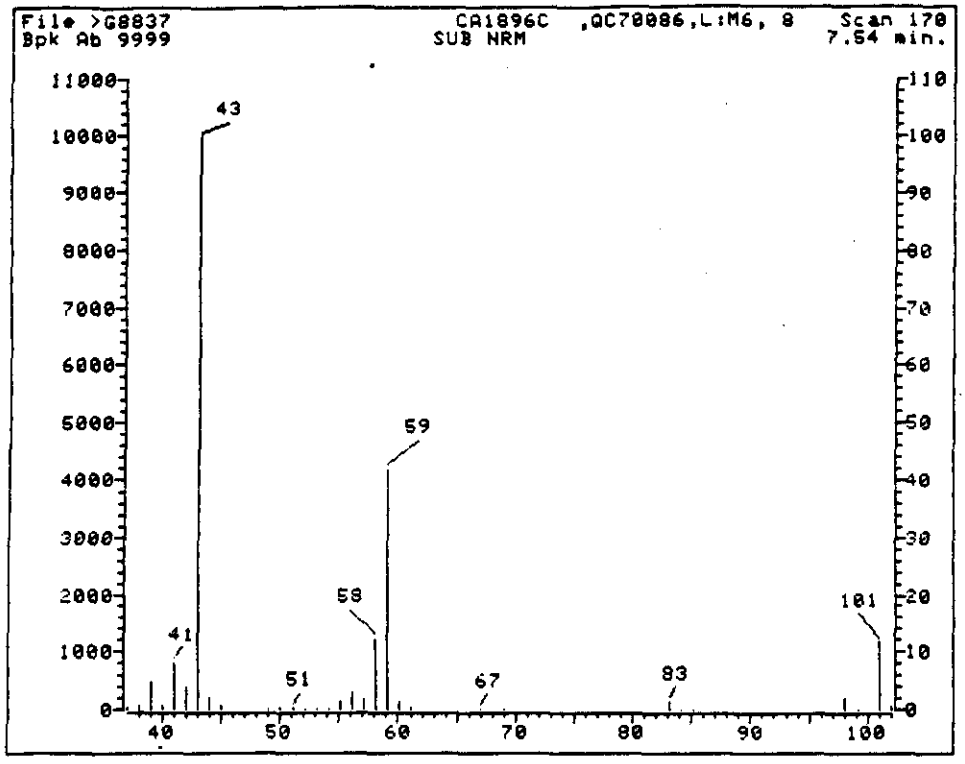


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 8.92
Scan: 238
Area: 399470 Rank: 7
Semi-quantitative Conc (uncorrected): 32.43 UG/ML
Semi-quantitative Conc (corrected): 74.56 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1.	Benzene, 1,2-dimethyl- (9CI)	106 C8H10
2.	Benzene, 1,3-dimethyl- (9CI)	106 C8H10
3.	Benzene, ethyl- (8CI9CI)	106 C8H10

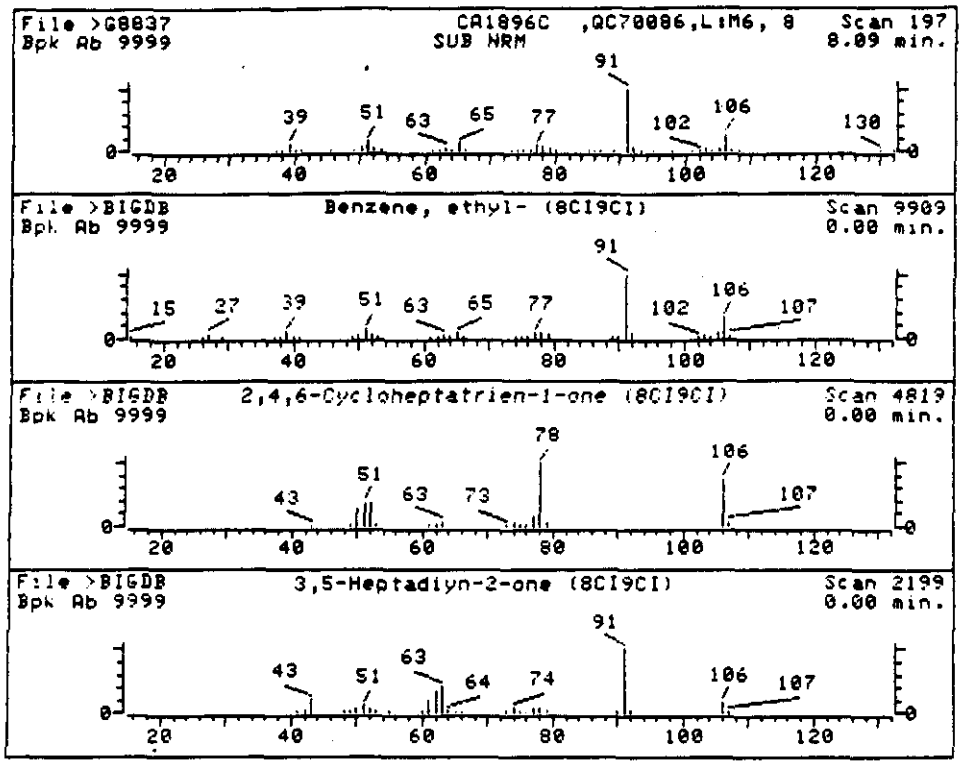
Sample file: >G8837 Spectrum #: 238
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IU
1.	95*	95476	9908	"BIGDB	79	13	1	0	76	4	72	93
2.	90*	108383	9919	"BIGDB	75	17	0	0	56	31	50	93
3.	83*	100414	9909	"BIGDB	63	21	2	0	100	8	54	90



Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 7.54
Scan: 170
Area: 371564 Rank: 8
Semi-quantitative Conc (uncorrected): 30.17 UG/ML
Semi-quantitative Conc (corrected): 69.35 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

No PBM hits for this scan.

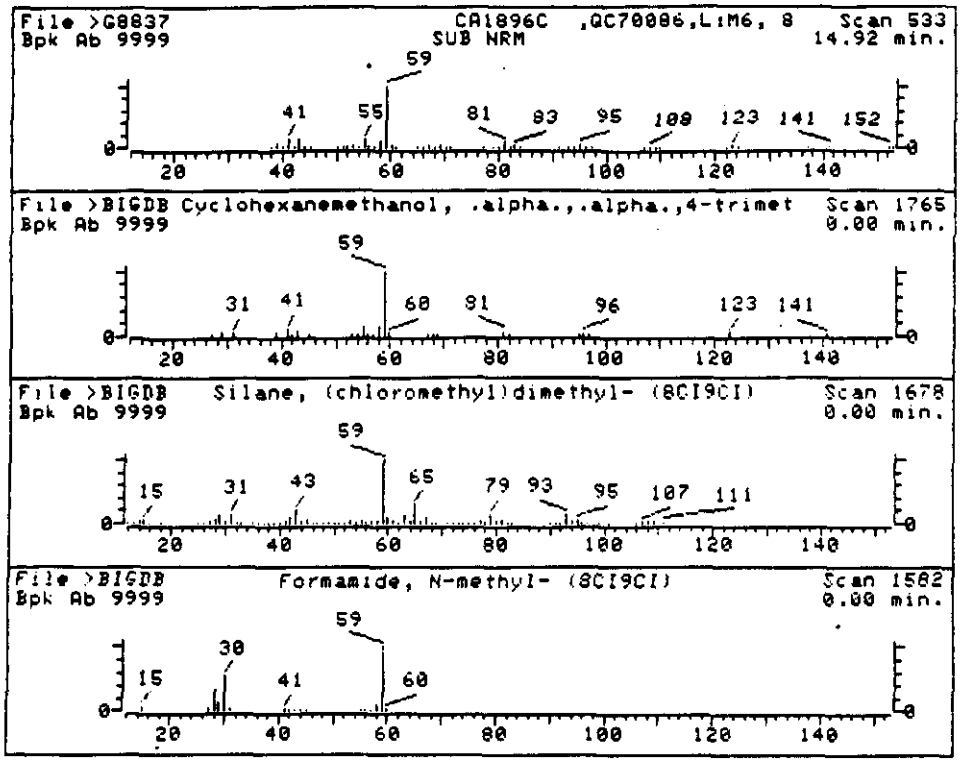


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 8.09
Scan: 197
Area: 269375 Rank: 11
Semi-quantitative Conc (uncorrected): 21.87 UG/ML
Semi-quantitative Conc (corrected): 50.28 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1.	Benzene, ethyl- (8CI9CI)	106	C8H10
2.	2,4,6-Cycloheptatrien-1-one (8CI9CI)	106	C7H6O
3.	3,5-Heptadiyn-2-one (8CI9CI)	106	C7H6O

Sample file: >G8837 Spectrum #: 197
Search speed: 2 Tilting option: S No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79*	100414	9909	"BIGDB	70	14	1	0	64	44	33	86
2.	52*	539800	4819	"BIGDB	40	47	2	1	36	18	20	13
3.	52*	13879715	2199	"BIGDB	32	68	3	0	100	20	20	13

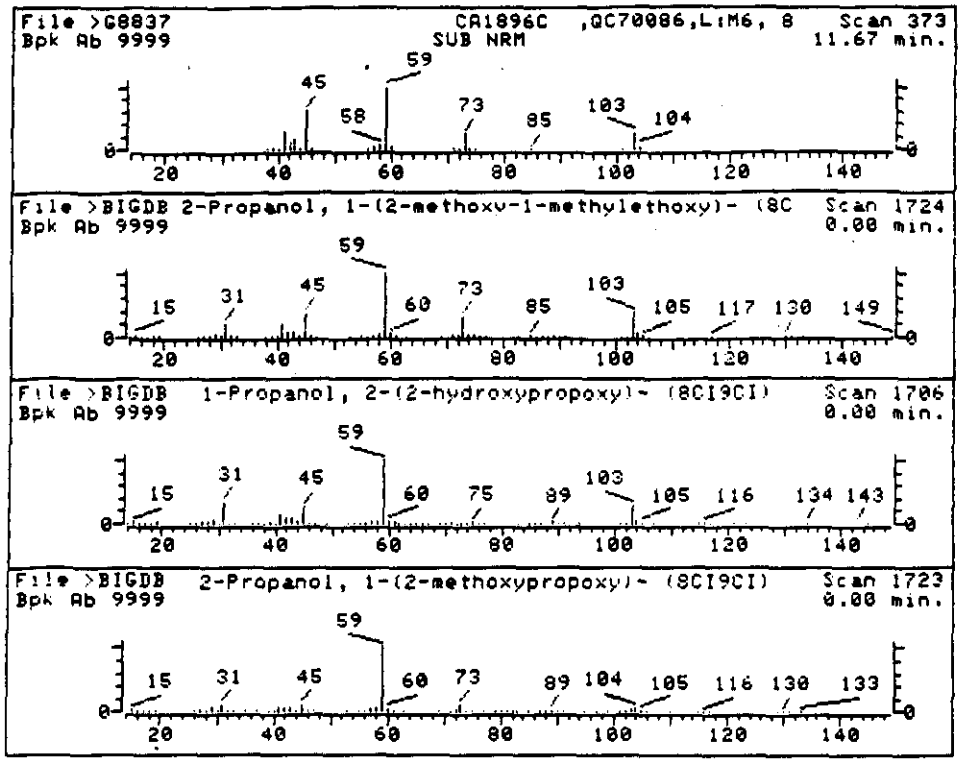


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 14.92
Scan: 533
Area: 109432 Rank: 14
Semi-quantitative Conc (uncorrected): 9.30 UG/ML
Semi-quantitative Conc (corrected): 21.38 ug/l
Calculated using Istd: d8-Naphthalene @ 15.69 minutes

1.	Cyclohexanemethanol, .alpha.,.alpha.,4-trimethyl- (9 CI)	156	C10H20O
2.	Silane, (chloromethyl)dimethyl- (8CI9CI)	108	C3H9ClSi
3.	Formamide, N-methyl- (8CI9CI)	59	C2H5NO

Sample file: >G8837 Spectrum #: 533
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79	498817	1765	"BIGDB	59	18	0	0	69	8	48	36
2.	52*	3144749	1678	"BIGDB	29	63	3	0	100	20	20	13
3.	43*	123397	1582	"BIGDB	25	40	1	0	100	22	17	14

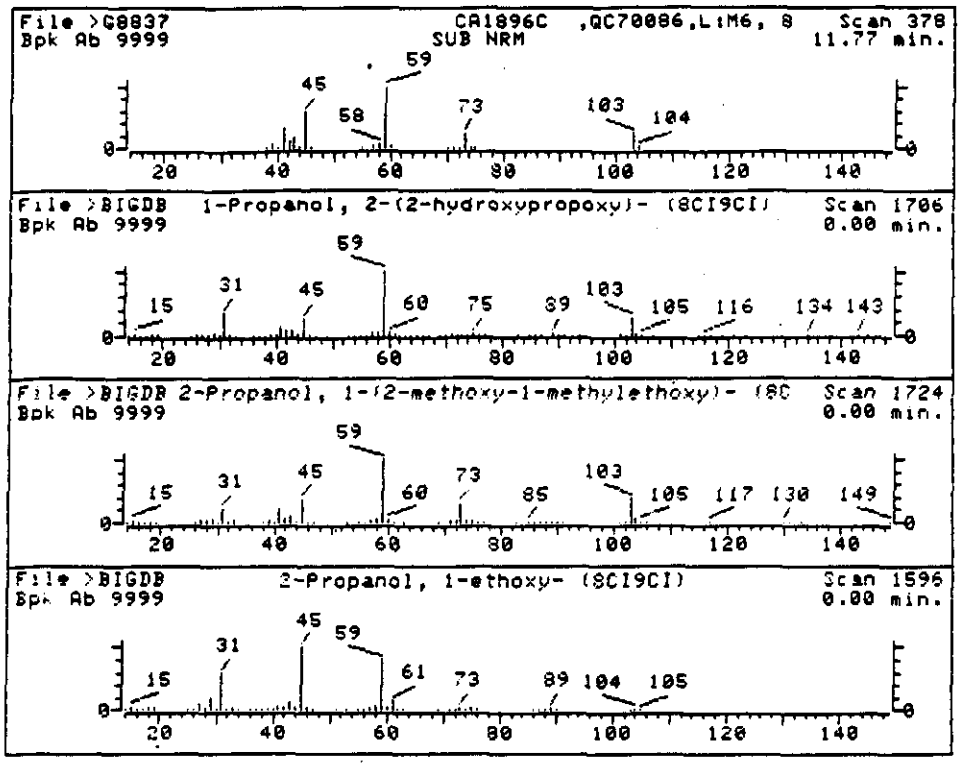


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 11.67
Scan: 373
Area: 67669 Rank: 15
Semi-quantitative Conc (uncorrected): 5.49 UG/ML
Semi-quantitative Conc (corrected): 12.63 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1. 2-Propanol, 1-(2-methoxy-1-methylethoxy)- (8CI9CI) 148 C7H1603
2. 1-Propanol, 2-(2-hydroxypropoxy)- (8CI9CI) 134 C6H1403
3. 2-Propanol, 1-(2-methoxypropoxy)- (8CI9CI) 148 C7H1603

Sample file: >G8837 Spectrum #: 373
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	71	20324327	1724	"BIGDB	66	27	1	0	70	12	38	31
2.	40	106627	1706	"BIGDB	49	37	2	0	97	26	14	17
3.	27	13429077	1723	"BIGDB	35	49	1	0	87	37	10	13

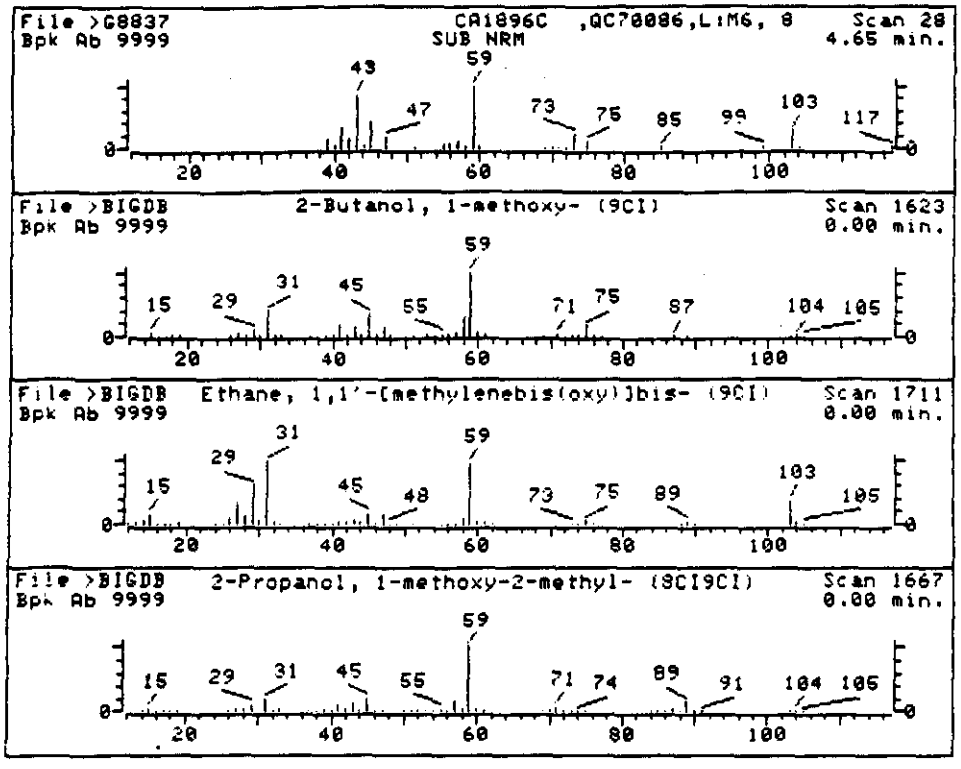


Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 11.77
Scan: 378
Area: 58134 Rank: 16
Semi-quantitative Conc (uncorrected): 4.72 UG/ML
Semi-quantitative Conc (corrected): 10.85 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1. 1-Propanol, 2-(2-hydroxypropoxy)- (8CI9CI) 134 C6H14O3
2. 2-Propanol, 1-(2-methoxy-1-methylethoxy)- (8CI9CI) 148 C7H16O3
3. 2-Propanol, 1-ethoxy- (8CI9CI) 104 C5H12O2

Sample file: >G8837 Spectrum #: 378
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	37	106627	1706	"BIGDB	42	44	2	0	90	26	14	14
2.	30	20324327	1724	"BIGDB	40	53	1	0	60	34	12	13
3.	25*	156?024	1596	"BIGDE	24	70	2	0	58	46	7	14



Data File: >G8837::U5
Name:
Misc Data: CA1896C ,QC70086,L:M6, 870,2 BTL#42
RT (min): 4.65
Scan: 28
Area: 49179 Rank: 17
Semi-quantitative Conc (uncorrected): 3.99 UG/ML
Semi-quantitative Conc (corrected): 9.18 ug/l
Calculated using lstd: d4-1,4-Dichlorobenzene @ 11.85 minutes

1. 2-Butanol, 1-methoxy- (9CI) 104 C5H12O2
2. Ethane, 1,1'-[methylenebis(oxy)]bis- (9CI) 104 C5H12O2
3. 2-Propanol, 1-methoxy-2-methyl- (8CI9CI) 104 C5H12O2

Sample file: >G8837 Spectrum #: 28
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36*	53778737	1623	"BIGDB	40	56	3	0	100	26	14	13
2.	31*	462953	1711	"BIGDB	27	74	2	0	73	39	12	14
3.	27*	3587642	1667	"BIGDB	31	60	2	0	67	45	8	15

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1897

Sample wt/vol: 910.0 (g/mL) ML Lab File ID: >G8838

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	1	J
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	22	
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	11	J
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1892C

Sample wt/vol: 910.0 (g/mL) ML Lab File ID: >G8838

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89 or 11/15/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	55	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

648

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA1897[illegible]

Sample wt/vol: 910.0 (g/mL) ML Lab File ID: >G8838

Level: (low/med) LOW Date Received: 10/05/89 (4) OT 11/15/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 12

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

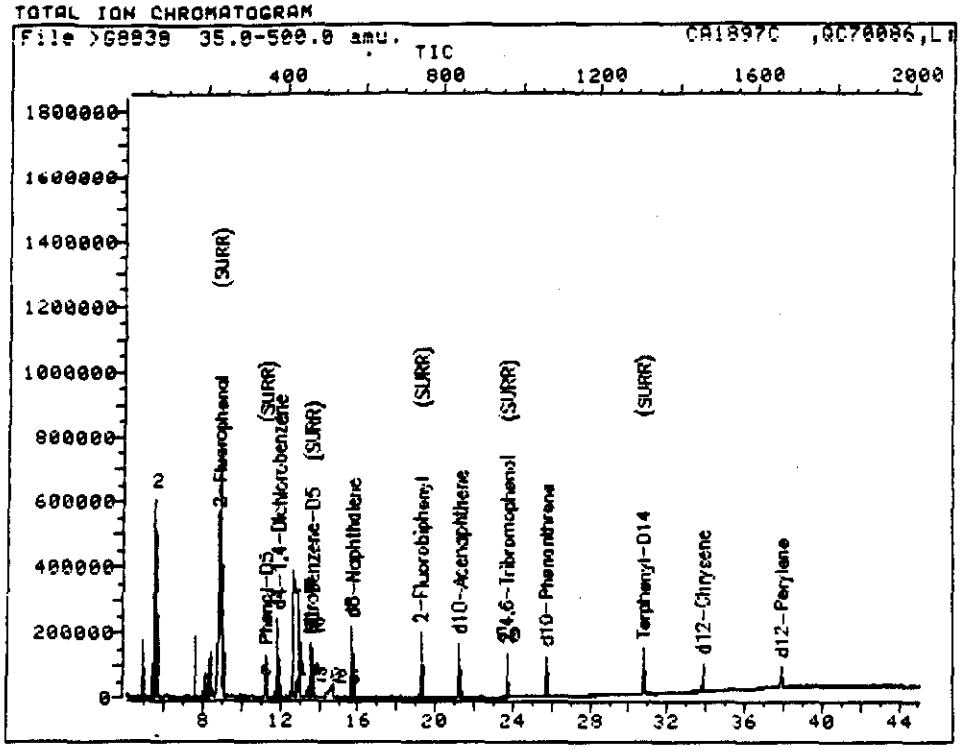
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	928-94-9	2-Hexen-1-ol, (Z)- (8CI9CI)	8.88	1200	J
02.	108-88-3	Benzene, methyl- (9CI)	5.52	310	J
03.	116-02-9	Cyclohexanol, 3,3,5-trimethyl	12.88	170	J
04.		UNKNOWN	8.94	170	J
05.	873-94-9	Cyclohexanone, 3,3,5-trimeth	12.58	160	J
06.	98-89-5	Cyclohexanecarboxylic acid (	14.69	85	J
~~07.~~		~~UNKNOWN~~	~~13.57~~	~~78~~	~~JB~~
08.		UNKNOWN	7.53	74	JB
09.		Dimethyl-benzene isomer	8.31	63	J
10.	108-10-1	2-Pentanone, 4-methyl- (8CI9	4.85	62	J
11.	626-93-7	2-Hexanol (8CI9CI)	5.36	36	J
12.	100-41-4	Benzene, ethyl- (8CI9CI)	8.08	26	J
13.	109-52-4	Pentanoic acid (9CI)	8.51	25	J

649

OT 11/15/89

OT 11/15/89

TOTAL ION CHROMATOGRAM



Data File: >G8838::U5 Quant Output File: ^G8838::AQ
Name:
Misc: CA1897C ,QC70086,L:M6, 910,2 BTL#43

Id File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

Operator ID: CA3875
Quant Time: 891030 11:48
Injected at: 891028 10:12

QUANT REPORT Page 1

Operator ID: CA3875 Quant Rev: 7 Quant Time: 891030 11:48
Output File: ^G8838::AQ Injected at: 891028 10:12
Data File: >G8838::U5 Dilution Factor: 1.00000
Name:
Misc: CA1897C ,QC70086,L:M6, 910,2 BTL#43

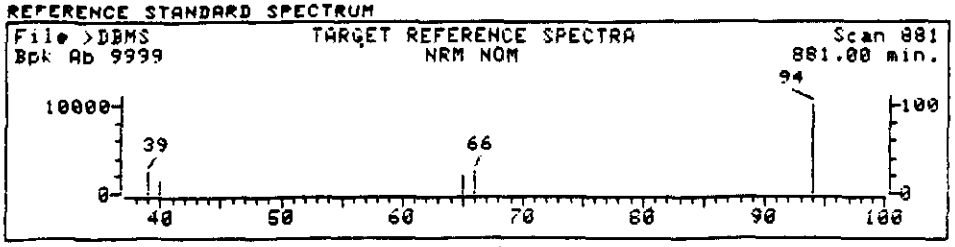
ID File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		11.87	384	138487	40.00	UG/ML	90
2)	N-Nitrosodimethylamine		5.52	72	9735	~~4.68~~	~~UG/ML~~	100
3)	2-Fluorophenol	(SURR)	8.78	232	107516	43.16	UG/ML	91
5)	Phenol-D5	(SURR)	11.19	351	110924	38.36	UG/ML	97
6)	Phenol		11.22	352	2107	.677	UG/ML	77
11)	Benzyl alcohol		12.90	435	4998	~~2.78~~	~~UG/ML~~	75
12)	N-Nitrosodi-n-propylamine		13.57	468	21711	~~11.65~~	~~UG/ML~~	38
14)	2-Methylphenol		12.90	435	3789	~~2.15~~	~~UG/ML~~	66
14)	2-Methylphenol		13.35	457	19339	~~10.98~~	~~UG/ML~~	90
15)	4-Methylphenol		12.90	435	3789	~~2.08~~	~~UG/ML~~	76
15)	4-Methylphenol		13.35	457	19339	10.23	UG/ML	98
17)	*d8-Naphthalene		15.69	572	253606	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	13.57	468	137213	39.93	UG/ML	90
20)	Isophorone		14.39	508	3300	~~.966~~	~~UG/ML~~	82
26)	Benzoic acid		15.34	555	2205	4.81	UG/ML	91
32)	*d10-Acenaphthene		21.22	844	101639	40.00	UG/ML	98
36)	2-Fluorobiphenyl	(SURR)	19.23	746	152116	39.88	UG/ML	99
50)	Fluorene		23.66	964	2661	~~.738~~	~~UG/ML~~	84
52)	2,4,6-Tribromophenol	(SURR)	23.66	964	47051	79.87	UG/ML	96
54)	*d10-Phenanthrene		25.69	1064	124743	40.00	UG/ML	98
65)	*d12-Chrysene		33.81	1462	92680	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	30.73	1311	144364	59.90	UG/ML	92
73)	*d12-Perylene		37.89	1662	81111	40.00	UG/ML	86

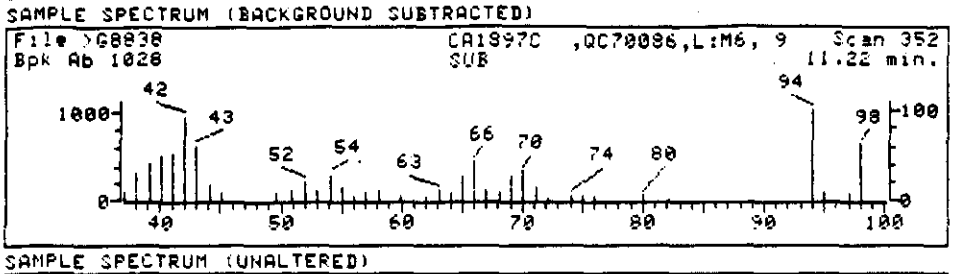
* Compound is ISTD

GT 11/15/89

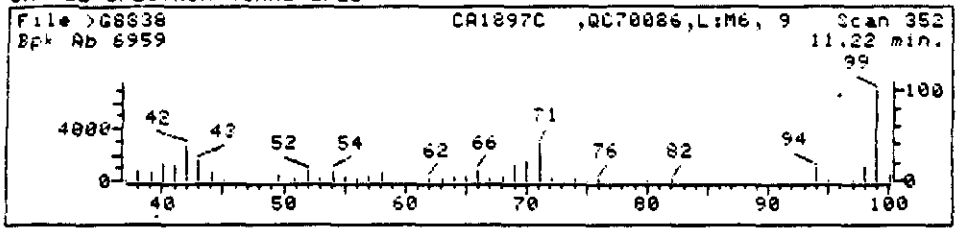
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



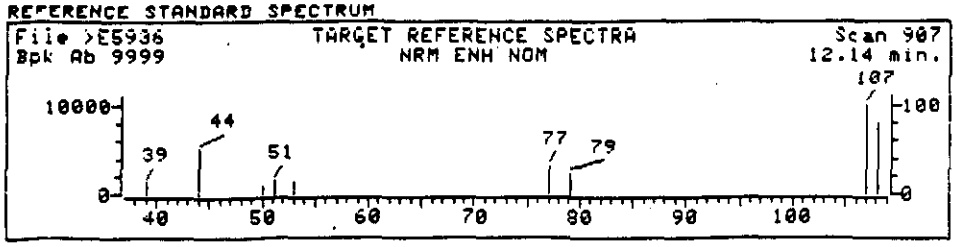
SAMPLE SPECTRUM (UNALTERED)



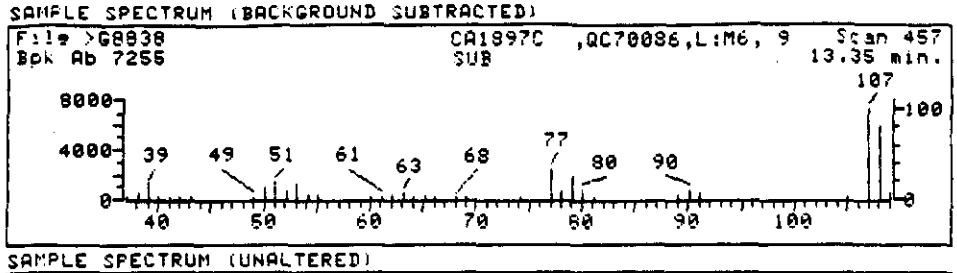
Data File: >G8838::U5 Quant Output File: ^G8838::AQ
Name:
Misc: CA1897C ,QC70086,L:M6, 910,2 BTL#43
Quant Time: 891030 11:48 Quant ID File: IG0125::US
Injected at: 891028 10:12 Last Calibration: 891030 11:15

Compound No: 6
Compound Name: Phenol
Scan Number: 352
Retention Time: 11.22 min.
Quant Ion: 94.0
Area: 2107
Concentration: .677 UG/ML
q-value: 77

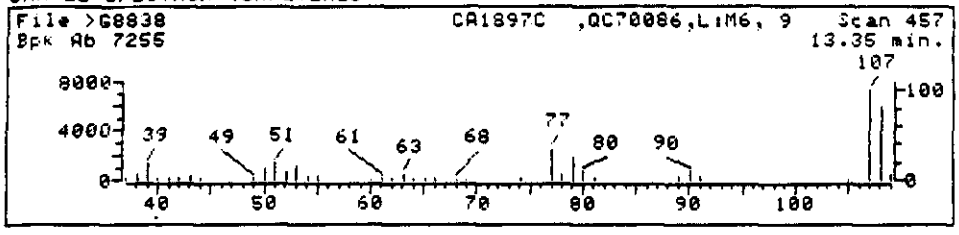
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



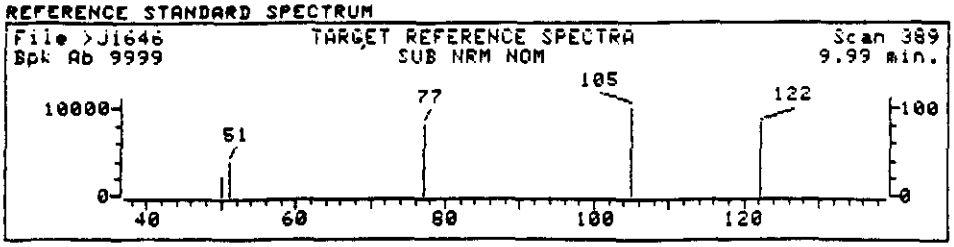
SAMPLE SPECTRUM (UNALTERED)



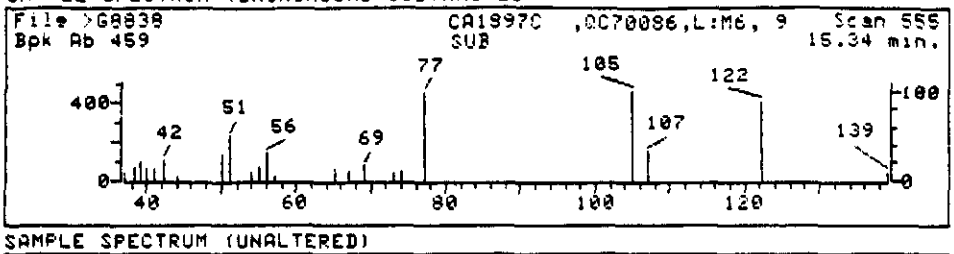
Data File: >G8838::U5 Quant Output File: ^G8838::AQ
Name:
Misc: CA1897C ,QC70086,L:M6, 910,2 BTL#43
Quant Time: 891030 11:48 Quant ID File: IG0125::US
Injected at: 891028 10:12 Last Calibration: 891030 11:15

Compound No: 15
Compound Name: 4-Methylphenol
Scan Number: 457
Retention Time: 13.35 min.
Quant Ion: 107.0
Area: 19339
Concentration: 10.23 UG/ML
q-value: 98

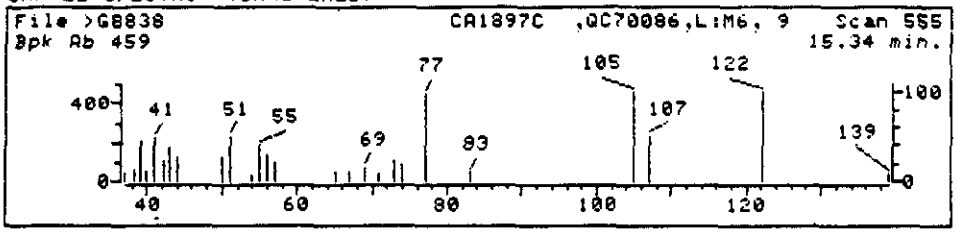
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

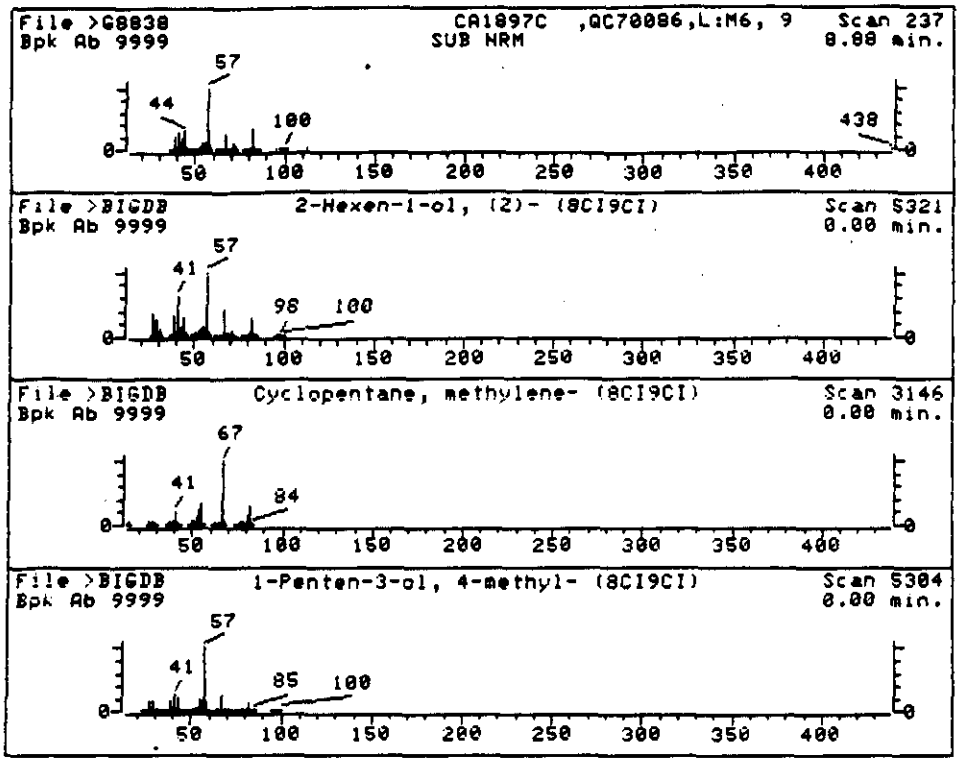


SAMPLE SPECTRUM (UNALTERED)



Data File: >G8838::U5 Quant Output File: ^G8838::AQ
Name:
Misc: CA1897C ,QC70086,L:M6, 910,2 BTL#43
Quant Time: 891030 11:48 Quant ID File: IG0125::US
Injected at: 891028 10:12 Last Calibration: 891030 11:15

Compound No: 26
Compound Name: Benzoic acid
Scan Number: 555
Retention Time: 15.34 min.
Quant Ion: 105.0
Area: 2205
Concentration: 4.81 UG/ML
q-value: 91

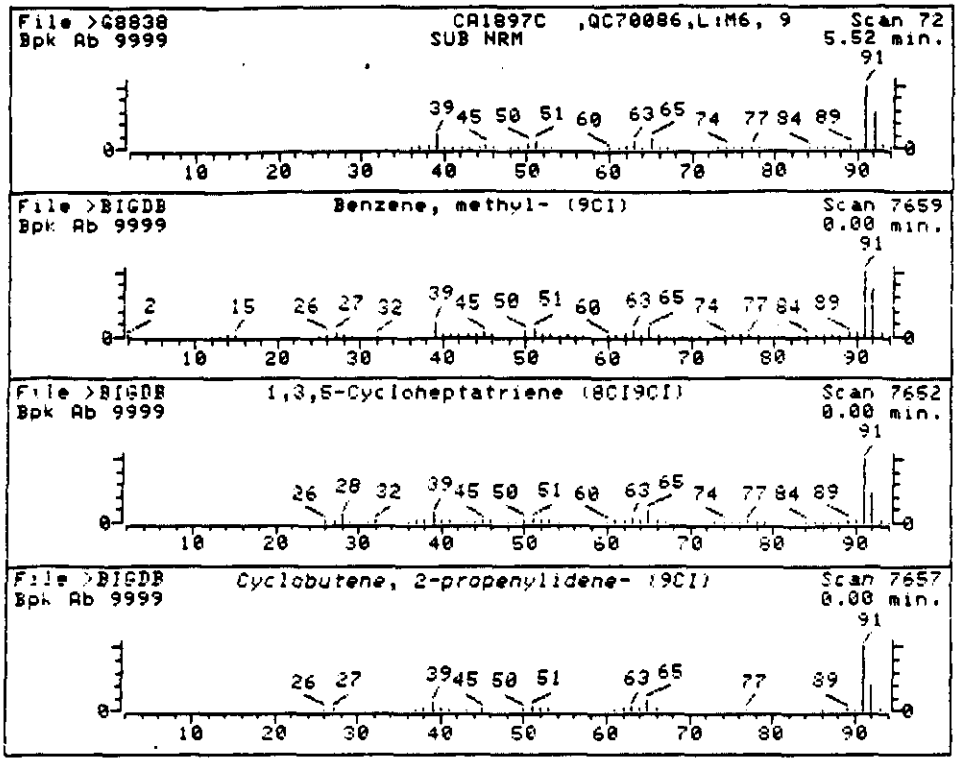


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 8.88
Scan: 237
Area: 7107275 Rank: 1
Semi-quantitative Conc (uncorrected): 539.61 UG/ML
Semi-quantitative Conc (corrected): 1185.95 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. 2-Hexen-1-ol, (Z)- (8CI9CI) 100 C6H12O
2. Cyclopentane, methylene- (8CI9CI) 82 C6H10
3. 1-Penten-3-ol, 4-methyl- (8CI9CI) 100 C6H12O

Sample file: >G8838 Spectrum #: 237
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	928949	5321	"BIGDB	57	41	2	0	99	13	38	34
2.	50*	1528309	3146	"BIGDB	48	10	0	3	19	49	14	60
3.	35*	4798452	5304	"BIGDB	23	61	3	0	100	30	14	12

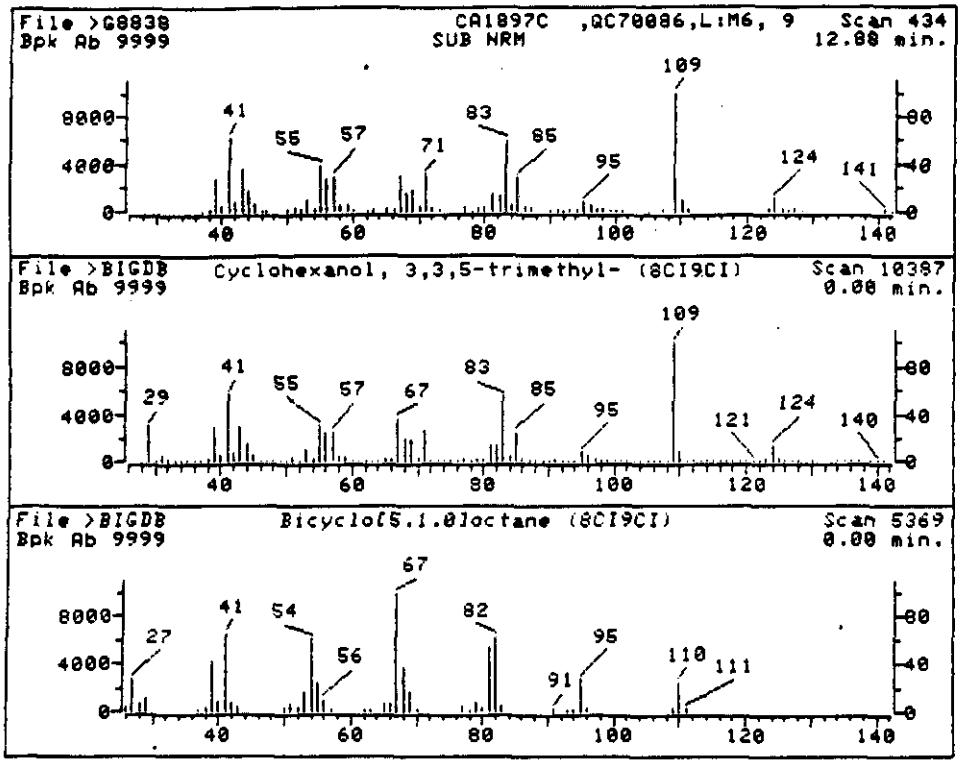


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 5.52
Scan: 72
Area: 1876638 Rank: 2
Semi-quantitative Conc (uncorrected): 142.48 UG/ML
Semi-quantitative Conc (corrected): 313.14 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. Benzene, methyl- (9CI) 92 C7H8
2. 1,3,5-Cycloheptatriene (8CI9CI) 92 C7H8
3. Cyclobutene, 2-propenylidene- (9CI) 92 C7H8

Sample file: >G8838 Spectrum #: 72
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IN
1.	93*	108883	7659	"BIGDB	75	15	1	0	73	3	68	84
2.	87*	544252	7652	"BIGDB	55	30	2	0	85	0	63	41
3.	79*	52097855	7657	"BIGDB	51	28	2	0	100	6	48	37

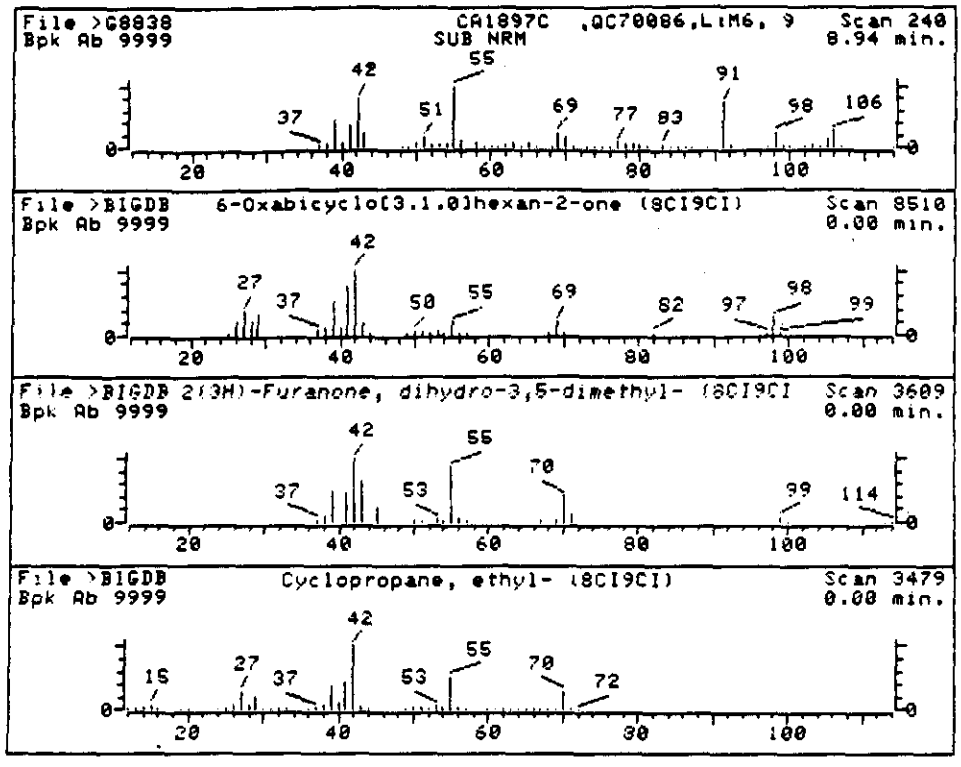


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 12.88
Scan: 434
Area: 1045730 Rank: 3
Semi-quantitative Conc (uncorrected): 79.40 UG/ML
Semi-quantitative Conc (corrected): 174.50 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. Cyclohexanol, 3,3,5-trimethyl- (8CI9CI) 142 C9H18O
2. Bicyclo[5.1.0]octane (8CI9CI) 110 C8H14

Sample file: >G8838 Spectrum #: 434
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	116029	10387	"BIGDB	103	9	1	1	71	5	66	66
2.	27*	286431	5369	"BIGDB	43	41	2	2	17	44	8	15

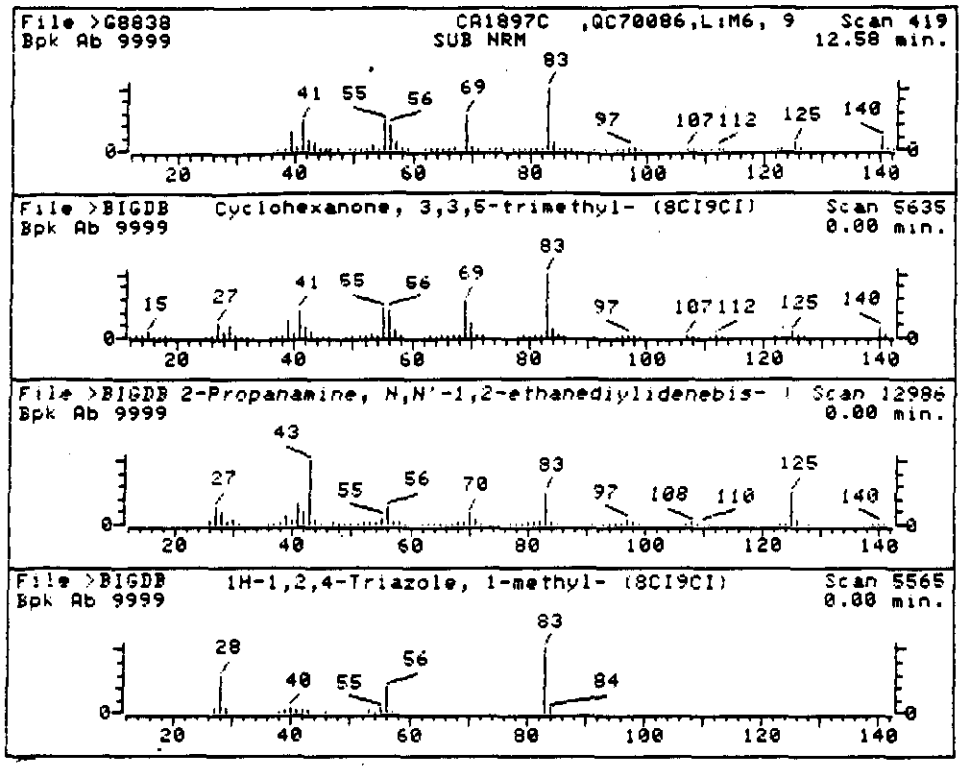


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 8.94
Scan: 240
Area: 989650 Rank: 4
Semi-quantitative Conc (uncorrected): 75.14 UG/ML
Semi-quantitative Conc (corrected): 165.14 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1.	6-Oxabicyclo[3.1.0]hexan-2-one (8CI9CI)	98	C5H6O2
2.	2(3H)-Furanone, dihydro-3,5-dimethyl- (8CI9CI)	114	C6H10O2
3.	Cyclopropane, ethyl- (8CI9CI)	70	C5H10

Sample file: >G8838 Spectrum #: 240
Search speed: 2 Tilting option: S No. of ion ranges searched: 66

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	34*	6705928	8510	"BIGDB	51	48	2	0	80	45	12	25
2.	25*	5145017	3609	"BIGDB	48	48	3	0	80	49	7	16
3.	24*	1191964	3479	"BIGDB	40	46	1	0	57	55	7	23

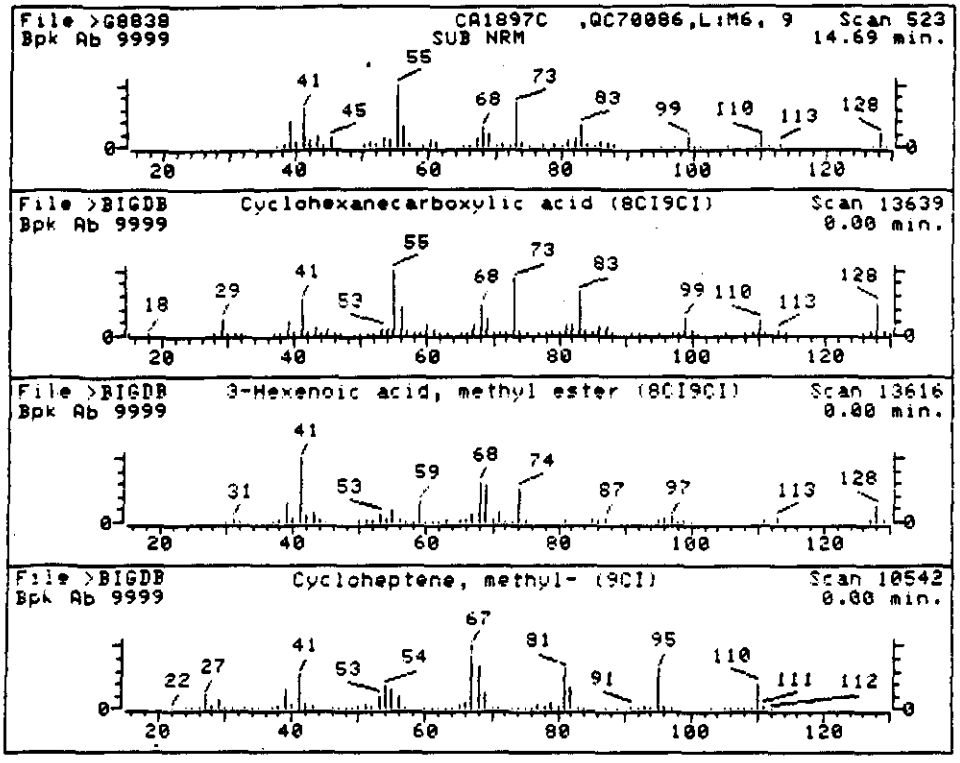


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 12.58
Scan: 419
Area: 941925 Rank: 5
Semi-quantitative Conc (uncorrected): 71.51 UG/ML
Semi-quantitative Conc (corrected): 157.17 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. Cyclohexanone, 3,3,5-trimethyl- (8CI9CI) 140 C9H16O
2. 2-Propanamine, N,N'-1,2-ethanediylidenebis- (9CI) 140 C8H16N2
3. 1H-1,2,4-Triazole, 1-methyl- (8CI9CI) 83 C3H5N3

Sample file: >G8838 Spectrum #: 419
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	89*	873949	5635	"BIGDB	79	23	1	0	91	4	66	76
2.	52*	24764907	12986	"BIGDB	24	72	3	0	141	18	20	12
3.	45*	6086211	5565	"BIGDB	30	44	1	0	90	24	17	16

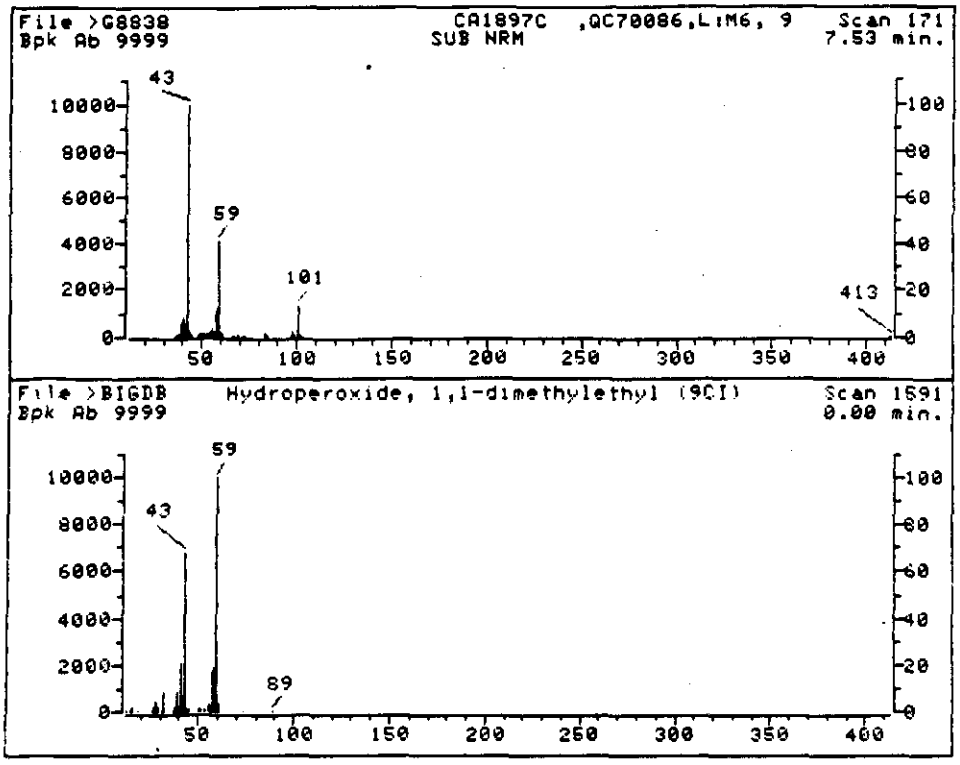


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 14.69
Scan: 523
Area: 521958 Rank: 6
Semi-quantitative Conc (uncorrected): 38.74 UG/ML
Semi-quantitative Conc (corrected): 85.14 ug/l
Calculated using Istd: d8-Naphthalene @ 15.69 minutes

1.	Cyclohexanecarboxylic acid (8CI9CI)	128 C7H12O2
2.	3-Hexenoic acid, methyl ester (8CI9CI)	128 C7H12O2
3.	Cycloheptene, methyl- (9CI)	110 C8H14

Sample file: >G8838 Spectrum #: 523
Search speed: 2 Tilting option: S No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	93*	98895	13639	"BIGDB	106	11	0	1	58	15	64	93
2.	20*	2396783	13616	"BIGDB	42	61	3	0	62	51	5	13
3.	15*	55308208	10542	"BIGDB	44	56	2	0	31	58	3	17

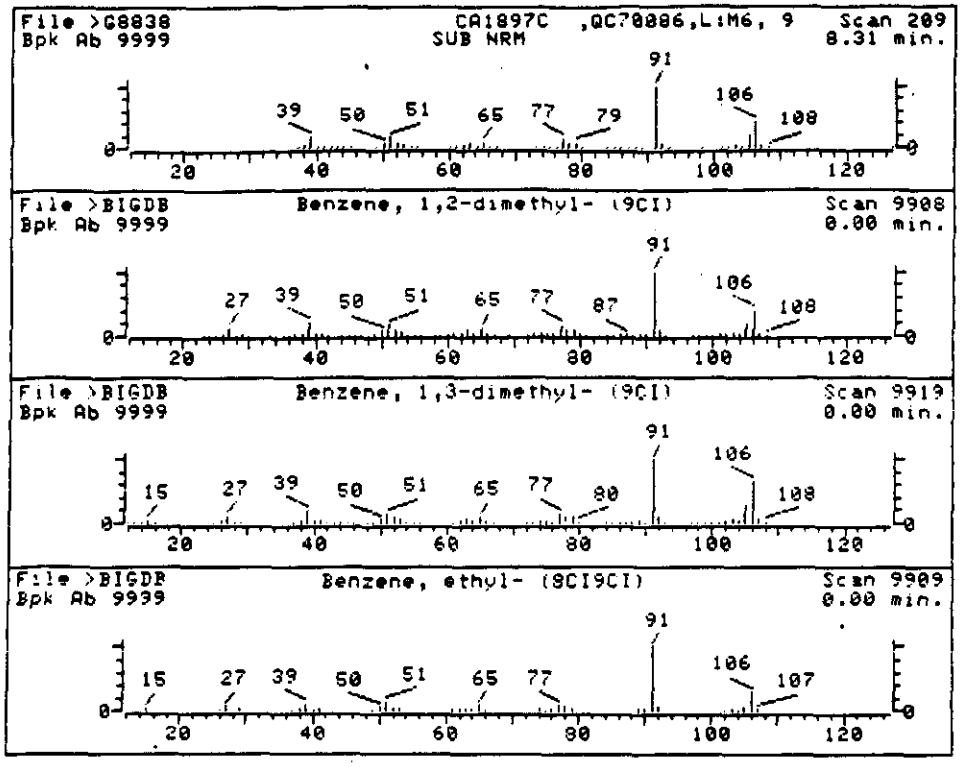


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 7.53
Scan: 171
Area: 444946 Rank: 8
Semi-quantitative Conc (uncorrected): 33.78 UG/ML
Semi-quantitative Conc (corrected): 74.25 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. Hydroperoxide, 1,1-dimethylethyl (9CI) 90 C4H10O2

Sample file: >G8838 Spectrum #: 171
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20	75912	1591	"BIGDB	34	31	1	0	39	51	5	12

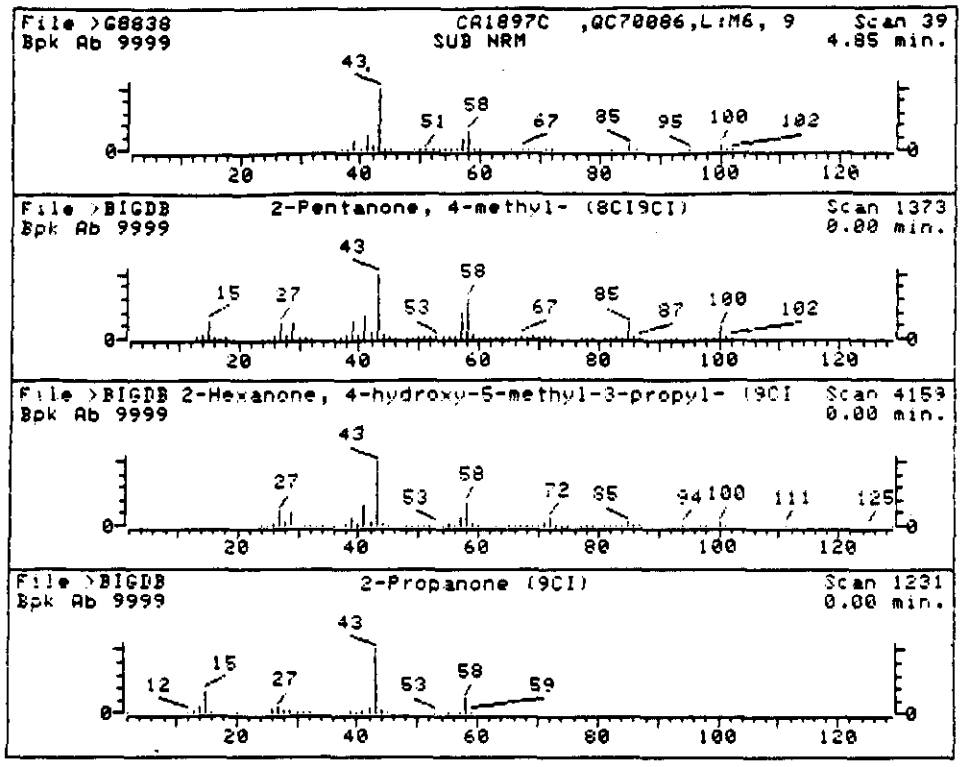


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 8.31
Scan: 209
Area: 376704 Rank: 10
Semi-quantitative Conc (uncorrected): 28.60 UG/ML
Semi-quantitative Conc (corrected): 62.86 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. Benzene, 1,2-dimethyl- (9CI) 106 C8H10
2. Benzene, 1,3-dimethyl- (9CI) 106 C8H10
3. Benzene, ethyl- (8CI9CI) 106 C8H10

Sample file: >G8838 Spectrum #: 209
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	95*	95476	9908	"BIGDB	79	13	1	0	77	4	72	93
2.	85*	108383	9919	"BIGDB	69	23	0	0	60	29	43	86
3.	76*	100414	9909	"BIGDB	63	21	2	0	100	13	40	90

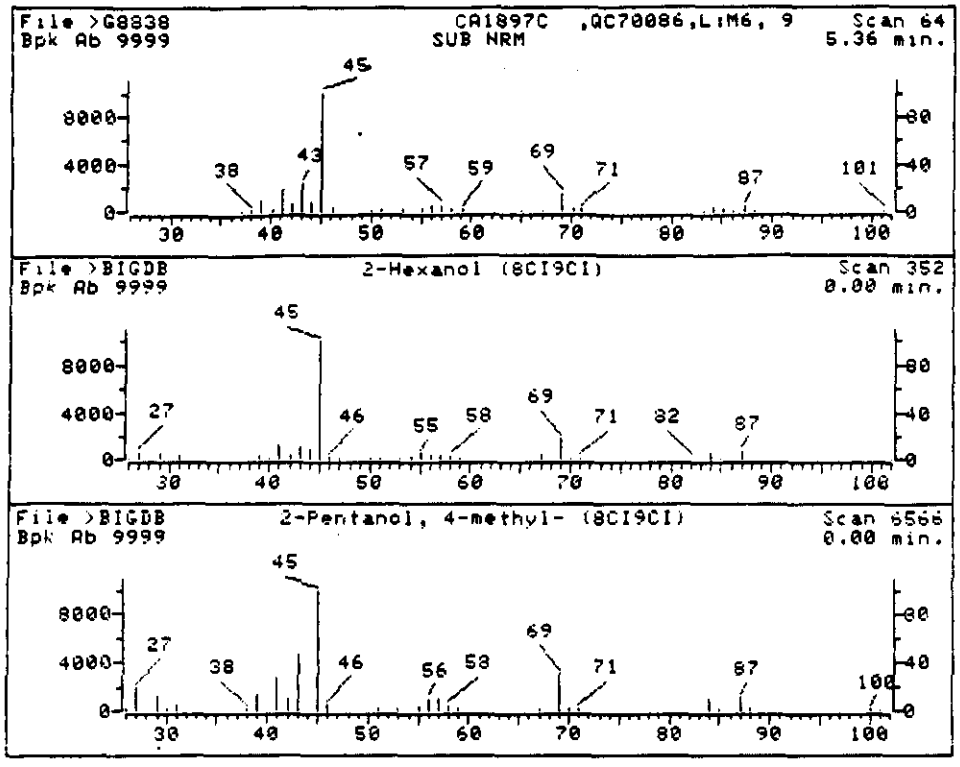


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 4.85
Scan: 39
Area: 372222 Rank: 11
Semi-quantitative Conc (uncorrected): 28.26 UG/ML
Semi-quantitative Conc (corrected): 62.11 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1.	2-Pentanone, 4-methyl- (8CI9CI)	100	C6H12O
2.	2-Hexanone, 4-hydroxy-5-methyl-3-propyl- (9CI)	172	C10H20O2
3.	2-Propanone (9CI)	58	C3H6O

Sample file: >G8838 Spectrum #: 39
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	108101	1373	"BIGDB	57	23	0	0	33	43	24	78
2.	52	61141740	4159	"BIGDB	41	47	2	0	68	16	21	13
3.	44*	67641	1231	"BIGDB	21	50	0	0	85	25	17	15

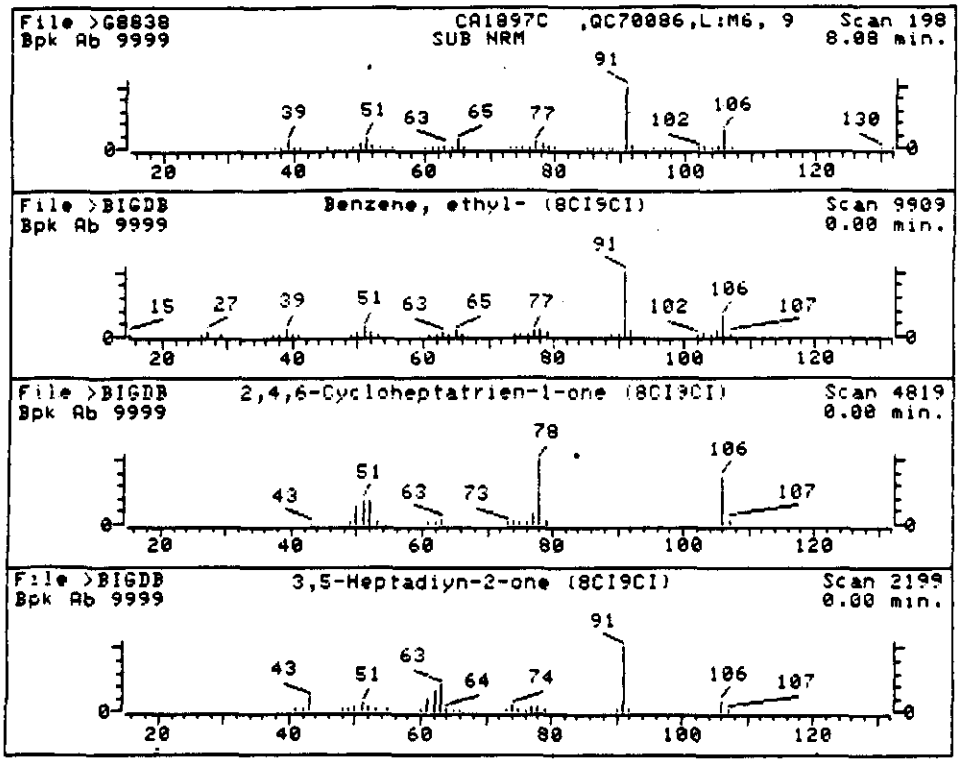


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 5.36
Scan: 64
Area: 215309 Rank: 15
Semi-quantitative Conc (uncorrected): 16.35 UG/ML
Semi-quantitative Conc (corrected): 35.93 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. 2-Hexanol (8CI9CI) 102 C6H14O
2. 2-Pentanol, 4-methyl- (8CI9CI) 102 C6H14O

Sample file: >G8838 Spectrum #: 64
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	626937	352	"BIGDB	40	40	2	0	81	4	55	14
2.	20	108112	6566	"BIGDB	43	37	1	0	34	55	5	15

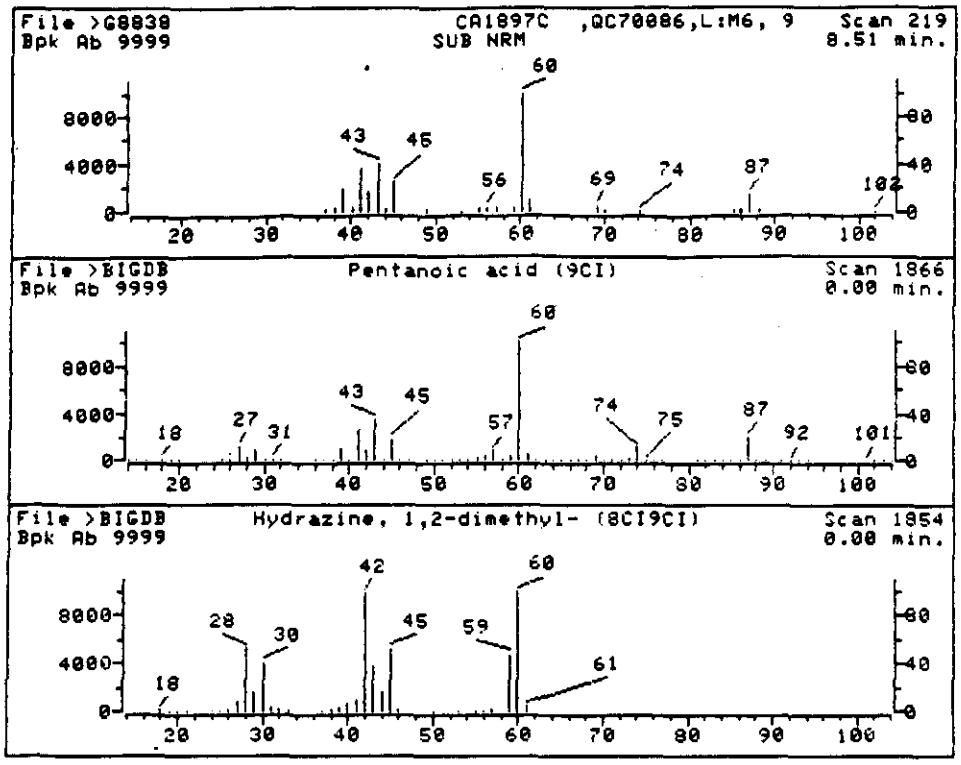


Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 8.08
Scan: 198
Area: 155875 Rank: 16
Semi-quantitative Conc (uncorrected): 11.83 UG/ML
Semi-quantitative Conc (corrected): 26.01 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1.	Benzene, ethyl- (8CI9CI)	106	C8H10
2.	2,4,6-Cycloheptatrien-1-one (8CI9CI)	106	C7H6O
3.	3,5-Heptadiyn-2-one (8CI9CI)	106	C7H6O

Sample file: >G8838 Spectrum #: 198
Search speed: 2 Tilting option: S No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	79*	100414	9909	"BIGDB	70	14	1	0	62	41	33	86
2.	60*	539800	4819	"BIGDB	40	47	2	2	32	13	30	13
3.	60*	13879715	2199	"BIGDB	32	68	3	0	100	15	30	13



Data File: >G8838::U5
Name:
Misc Data: CA1897C ,QC70086,L:M6, 910,2 BTL#43
RT (min): 8.51
Scan: 219
Area: 147820 Rank: 17
Semi-quantitative Conc (uncorrected): 11.22 UG/ML
Semi-quantitative Conc (corrected): 24.67 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. Pentanoic acid (9CI) 102 C5H10O2
2. Hydrazine, 1,2-dimethyl- (8CI9CI) 60 C2H8N2

Sample file: >G8838 Spectrum #: 219
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	67*	109524	1866	"BIGDB	46	42	2	0	69	13	34	26
2.	52*	540738	1854	"BIGDB	23	72	3	0	100	19	20	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2136[illegible]

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: >G8839

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	53	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2136C

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: >G8839

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	53	U
100-02-7	4-Nitrophenol	53	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	53	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2136C

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: >G8839

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

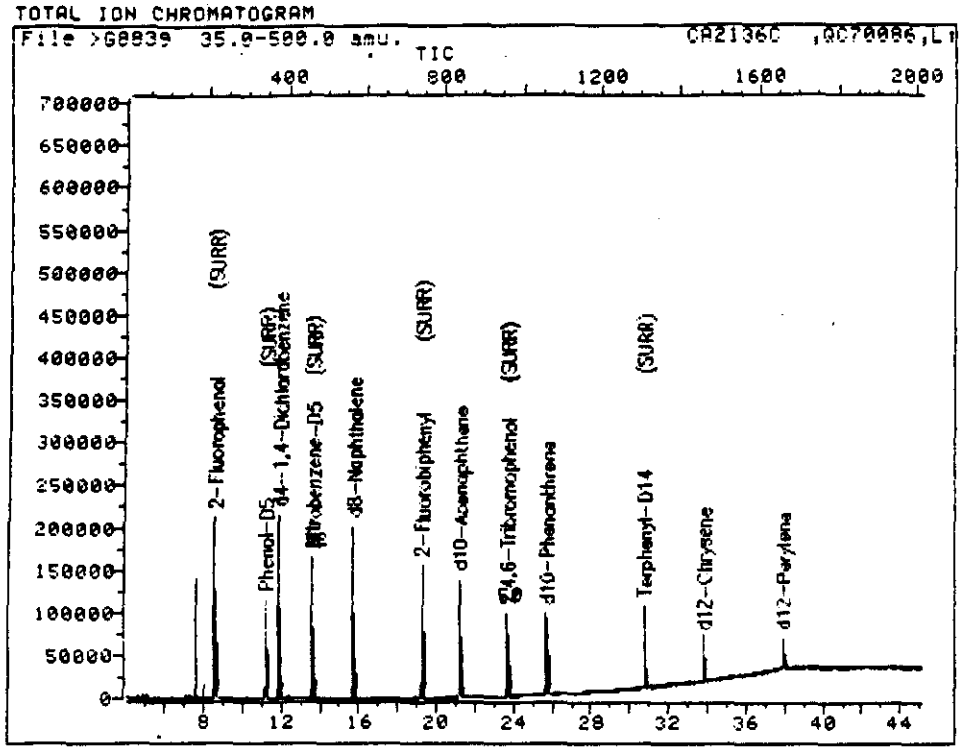
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01.	UNKNOWN	7.53	53	JB

TOTAL ION CHROMATOGRAM



Data File: >G8839::U5 Quant Output File: ^G8839::AQ
Name:
Misc: CA2136C ,QC70086,L:M6, 950,2 BTL#44

Id File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

Operator ID: CA3875
Quant Time: 891030 11:56
Injected at: 891028 11:07

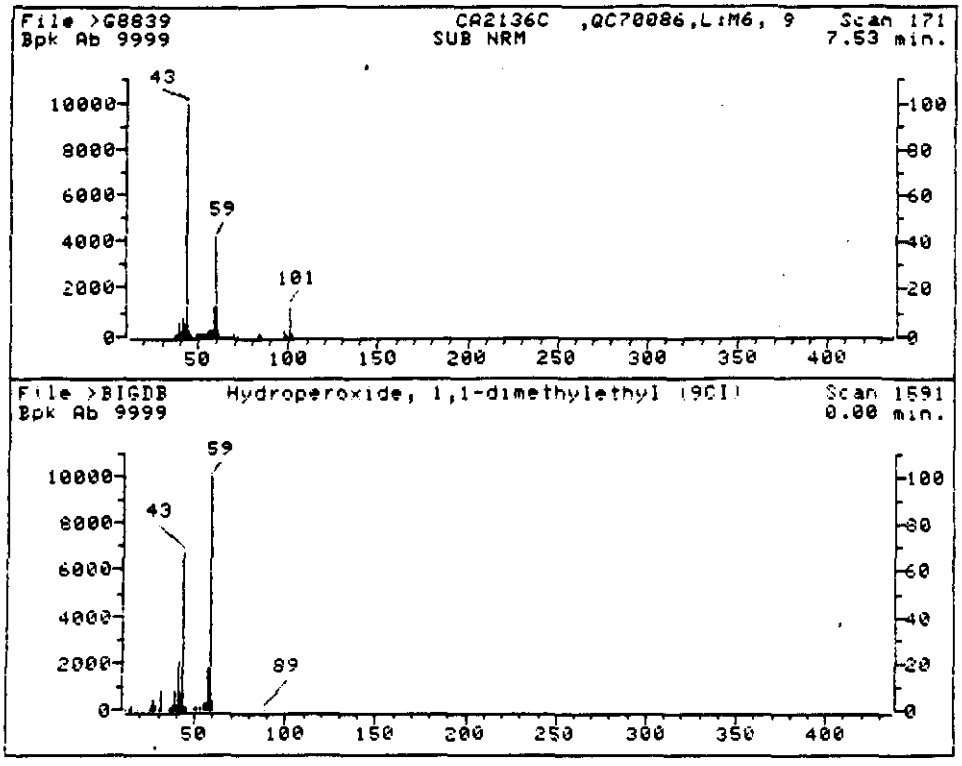
Operator ID: CA3875 Quant Rev: 7 Quant Time: 891030 11:56
Output File: ^G8839::AQ Injected at: 891028 11:07
Data File: >G8839::U5 Dilution Factor: 1.00000
Name:
Misc: CA2136C ,QC70086,L:M6, 950,2 BTL#44

ID File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		11.86	384	128998	40.00	UG/ML	90
3)	2-Fluorophenol	(SURR)	8.53	220	118295	50.98	UG/ML	88
5)	Phenol-D5	(SURR)	11.17	350	92295	34.27	UG/ML	95
12)	N-Nitrosodi-n-propylamine		13.57	468	18146	~~18.45~~	~~UG/ML~~	38
17)	*d8-Naphthalene		15.68	572	217273	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	13.57	468	112300	38.15	UG/ML	89
32)	*d10-Acenaphthene		21.19	843	88161	40.00	UG/ML	99
36)	2-Fluorobiphenyl	(SURR)	19.22	746	129125	39.03	UG/ML	98
50)	Fluorene		23.65	964	2024	~~.647~~	~~UG/ML~~	86
52)	2,4,6-Tribromophenol	(SURR)	23.65	964	34682	67.87	UG/ML	96
54)	*d10-Phenanthrene		25.68	1064	109813	40.00	UG/ML	97
65)	*d12-Chrysene		33.79	1462	61607	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	30.73	1312	96769	60.40	UG/ML	93
73)	*d12-Perylene		37.90	1663	46022	40.00	UG/ML	87

* Compound is ISTD

PT 11/15/89.



Data File: >G8839::U5
Name:
Misc Data: CA2136C ,QC70086,L:M6, 950,2 BTL#44
RT (min): 7.53
Scan: 171
Area: 313942 Pank: 4
Semi-quantitative Conc (uncorrected): 25.03 UG/ML
Semi-quantitative Conc (corrected): 52.69 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.86 minutes

1. Hydroperoxide, 1,1-dimethylethyl (9CI) 90 C4H10O2

Sample file: >G8839 Spectrum #: 171
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20	75912	1591	"BIGDB	34	31	1	0	36	51	5	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2137C

Sample wt/vol: 880.0 (g/mL) ML Lab File ID: >G8840

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	57	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	57	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	57	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

673

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2137C

Sample wt/vol: 880.0 (g/mL) ML Lab File ID: >G3840

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	57	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	57	U
100-02-7	4-Nitrophenol	57	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	57	U
534-52-1	4,6-Dinitro-2-methylphenol	57	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	57	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

674

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2137[illegible]

Sample wt/vol: 880.0 (g/mL) ML Lab File ID: >G8840

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

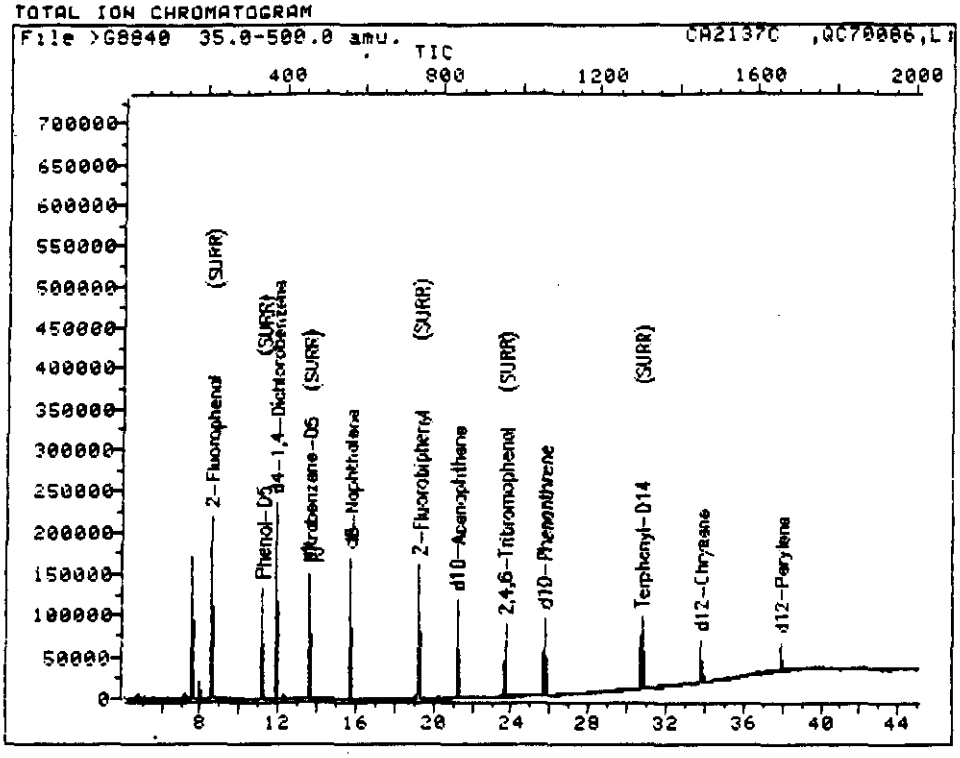
Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01.	UNKNOWN	7.53	73	JB

675

TOTAL ION CHROMATOGRAM



Data File: >G8840::U5 Quant Output File: ^G8840::AQ
Name:
Misc: CA2137C ,QC70086,L:M6, 380,2 BTL#45

Id File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

Operator ID: CA3875
Quant Time: 891030 12:03
Injected at: 891028 12:03

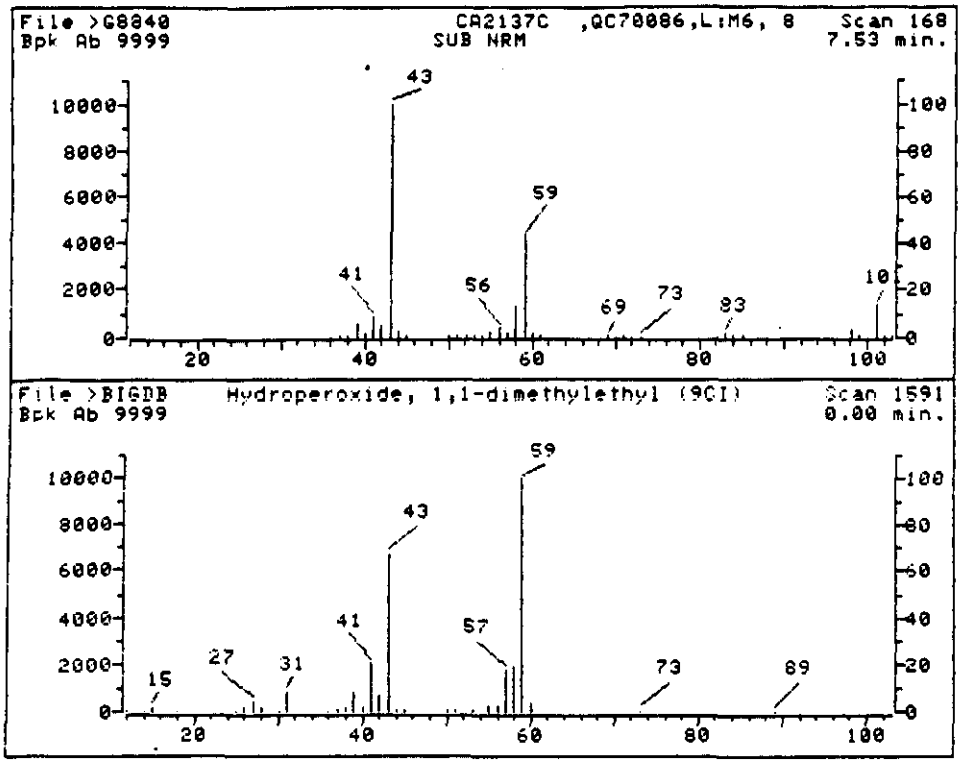
Operator ID: CA3875 Quant Rev: 7 Quant Time: 891030 12:03
Output File: ^G8840::AQ Injected at: 891028 12:03
Data File: >G8840::U5 Dilution Factor: 1.00000
Name:
Misc: CA2137C ,QC70086,L:M6, 880,2 BTL#45

ID File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		11.86	381	133011	40.00	UG/ML	88
3)	2-Fluorophenol	(SURR)	8.55	218	129891	54.29	UG/ML	97
5)	Phenol-D5	(SURR)	11.17	347	91107	32.81	UG/ML	93
12)	N-Nitrosodi-n-propylamine		13.57	465	19008	~~10.62 UG~~/ML		39
17)	*d8-Naphthalene		15.68	569	213012	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	13.57	465	120594	41.78	UG/ML	91
32)	*d10-Acenaphthene		21.19	840	75310	40.00	UG/ML	98
36)	2-Fluorobiphenyl	(SURR)	19.22	743	121060	42.84	UG/ML	98
52)	2,4,6-Tribromophenol	(SURR)	23.65	961	28736	65.83	UG/ML	96
54)	*d10-Phenanthrene		25.69	1061	93329	40.00	UG/ML	97
65)	*d12-Chrysene		33.79	1459	57008	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	30.74	1309	91907	61.99	UG/ML	93
73)	*d12-Perylene		37.90	1660	43591	40.00	UG/ML	87

* Compound is ISTD

PT 11/15/89



Data File: >G8840::U5
Name:
Misc Data: CA2137C ,QC70086,L:M6, 880,2 BTL#45
RT (min): 7.53
Scan: 168
Area: 414401 Rank: 2
Semi-quantitative Conc (uncorrected): 32.07 UG/ML
Semi-quantitative Conc (corrected): 72.88 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.86 minutes

1. Hydroperoxide, 1,1-dimethylethyl (9CI) 90 C4H10O2

Sample file: >G8840 Spectrum #: 168
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	25	75912	1591	"BIGDB	34	31	1	0	39	50	7	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2138C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: G8841

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	54	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	54	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	54	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

679

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2138C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G8841

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec. dec. Date Extracted: 10/07/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	54	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	54	U
100-02-7	4-Nitrophenol	54	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	54	U
534-52-1	4,6-Dinitro-2-methylphenol	54	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	54	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthelate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2138[illegible]

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G8841

Level: (low/med) LOW Date Received: 10/05/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/07/89

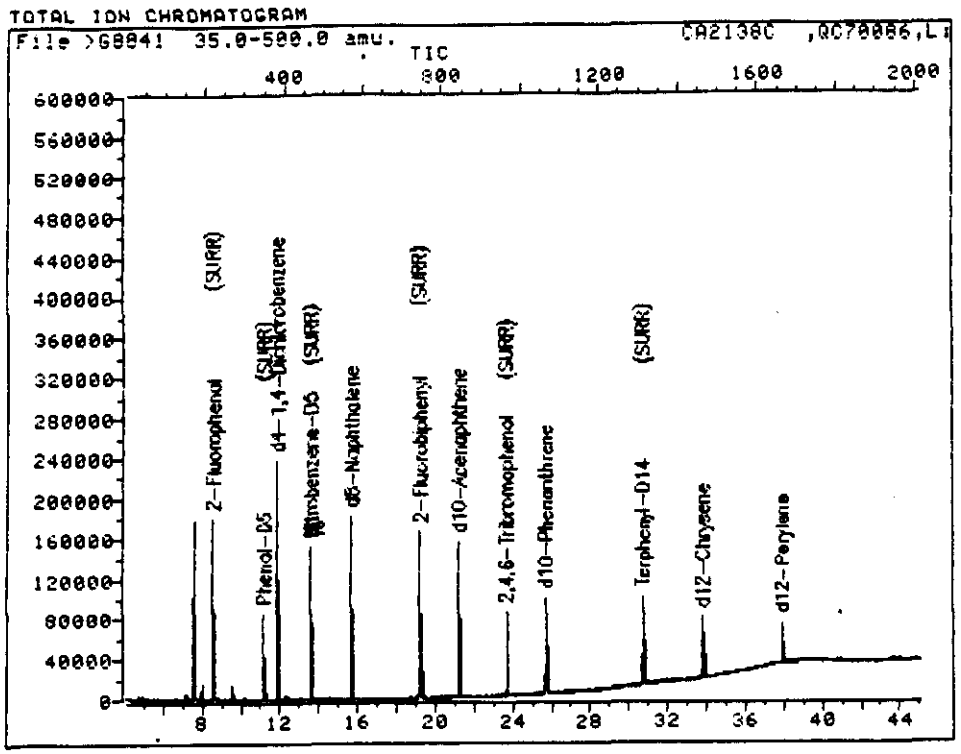
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/28/89

GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01.	UNKNOWN	7.54	64	JB



Data File: >G8841::U5 Quant Output File: ^G8841::AQ
Name:
Misc: CA2138C ,QC70086,L:M6, 920,2 BTL#46

Id File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

Operator ID: CA3875
Quant Time: 891030 12:09
Injected at: 891028 12:58

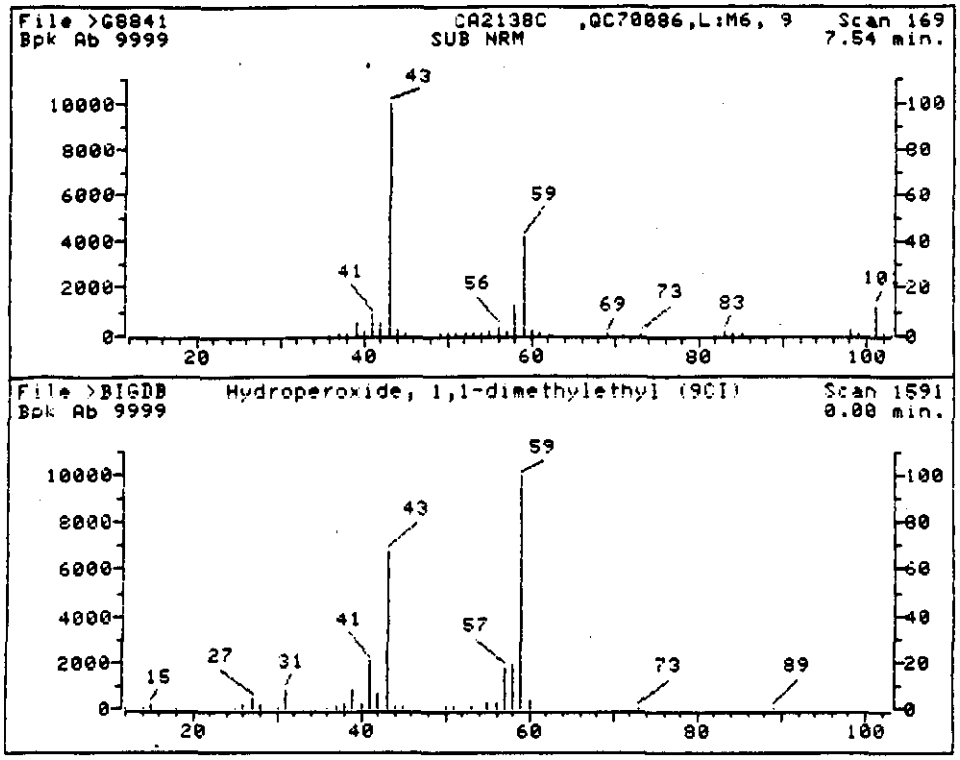
Operator ID: CA3875 Quant Rev: 7 Quant Time: 891030 12:09
Output File: ^G8841::AQ Injected at: 891028 12:58
Data File: >G8841::U5 Dilution Factor: 1.00000
Name:
Misc: CA2138C ,QC70086,L:M6, 920,2 BTL#46

ID File: IG0125::US
Title: IFB/BNA, PP/BNA
Last Calibration: 891030 11:15

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		11.87	382	133750	40.00	UG/ML	89
3)	2-Fluorophenol	(SURR)	8.53	218	88397	36.74	UG/ML	90
5)	Phenol-D5	(SURR)	11.18	348	64755	23.19	UG/ML	93
12)	N-Nitrosodi-n-propylamine		13.57	466	17488	~~9.72~~	~~UG/ML~~	38
17)	*d8-Naphthalene		15.69	570	226652	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	13.57	466	113350	36.91	UG/ML	90
32)	*d10-Acenaphthene		21.22	842	85644	40.00	UG/ML	98
36)	2-Fluorobiphenyl	(SURR)	19.22	744	121516	37.81	UG/ML	99
52)	2,4,6-Tribromophenol	(SURR)	23.66	962	29090	58.60	UG/ML	99
54)	*d10-Phenanthrene		25.69	1062	102388	40.00	UG/ML	98
65)	*d12-Chrysene		33.80	1460	64076	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	30.72	1309	97266	58.37	UG/ML	94
73)	*d12-Perylene		37.90	1661	50934	40.00	UG/ML	87

* Compound is ISTD

OT 11/6/89



Data File: >G8841::U5
Name:
Misc Data: CA2138C ,QC70086,L:M6, 920,2 BTL#46
RT (min): 7.54
Scan: 169
Area: 383861 Rank: 1
Semi-quantitative Conc (uncorrected): 29.48 UG/ML
Semi-quantitative Conc (corrected): 64.08 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 11.87 minutes

1. Hydroperoxide, 1,1-dimethylethyl (9CI) 90 C4H10O2

Sample file: >G8841 Spectrum #: 169
Search speed: 2 Tilting option: S No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IO
1.	20	75912	1591	"BIGDB	34	31	1	0	36	51	5	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2139C

Sample wt/vol: 940.0 (g/mL) ML Lab File ID: >G9045

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. dec. Date Extracted: 10/11/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	53	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethylphthelate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2139C

Sample wt/vol: 940.0 (g/mL) ML Lab File ID: >G9045

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. dec. Date Extracted: 10/11/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	53	U
100-02-7	4-Nitrophenol	53	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	53	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

686

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2139C

Sample wt/vol: 940.0 (g/mL) ML Lab File ID: >G9045

Level: (low/med) LOW Date Received: 10/16/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/11/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

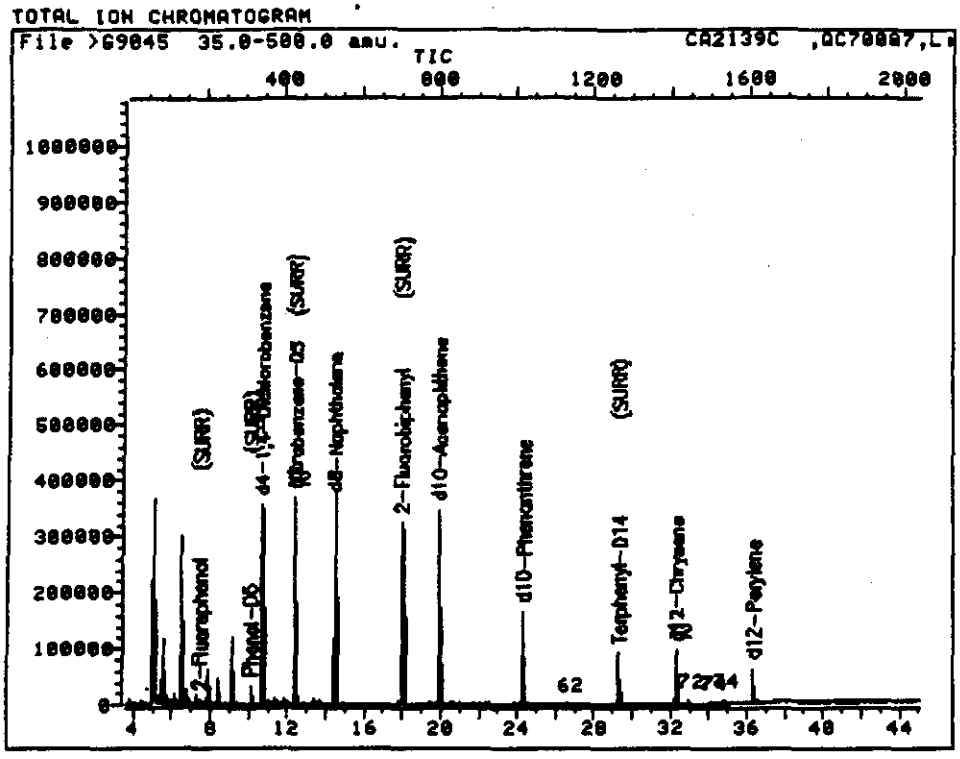
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 141-78-6	Acetic acid, ethyl ester	5.01	220	BJ
02.	ACETONE DIMER	6.41	62	BJ
03. 2233-00-3	1-Propene, 3,3,3-trichloro-	9.07	21	BJ
04. 127-18-4	Ethene, tetrachloro-	5.45	19	J
05. 504-02-9	1,3-Cyclohexanedione	8.32	12	J
06.	UNKNOWN	7.81	12	BJ

TOTAL ION CHROMATOGRAM



Data File: >G9045::U5 Quant Output File: ^G9045::AQ
Name:
Misc: CA2139C ,QC70087,L:M6, 940,2 BTL#11

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 08:47

Operator ID: PT1575
Quant Time: 891115 09:48
Injected at: 891115 01:22

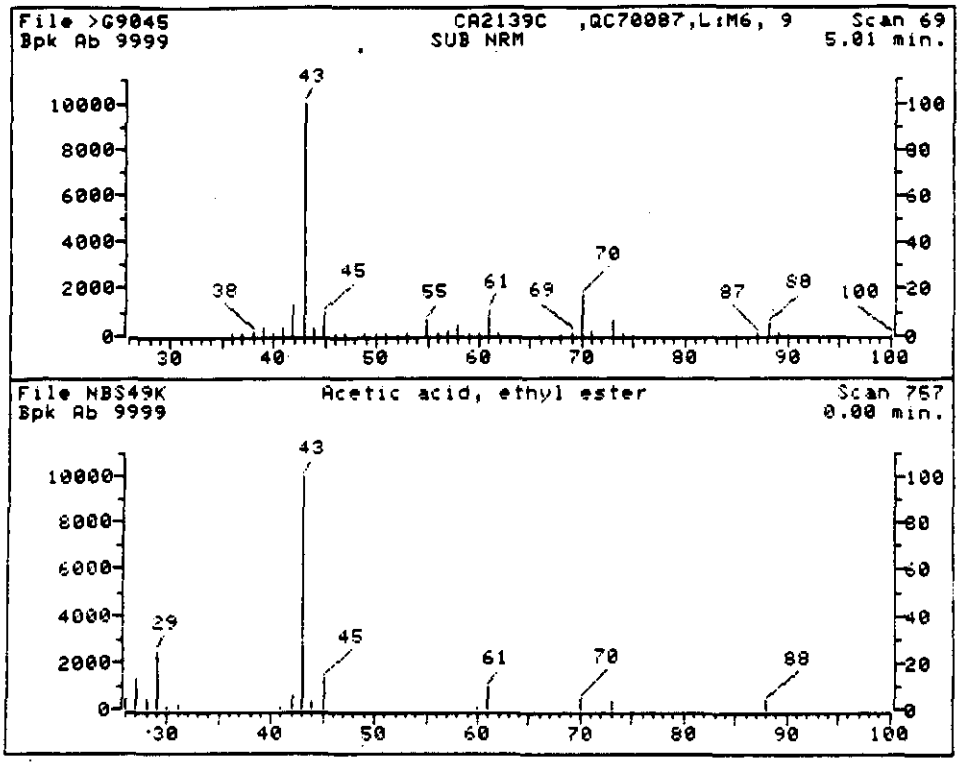
Operator ID: PT1575 Quant Rev: 7 Quant Time: 891115 09:48
Output File: ^G9045::AQ Injected at: 891115 01:22
Data File: >G9045::U5 Dilution Factor: 1.00000
Name:
Misc: CA2139C ,QC70087,L:M6, 940,2 BTL#11

ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 08:47

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.62	345	254550	40.00	UG/ML	87
3)	2-Fluorophenol	(SURR)	7.41	187	4805	.987	UG/ML	68
5)	Phenol-D5	(SURR)	10.05	317	22657	3.58	UG/ML	95
12)	N-Nitrosodi-n-propylamine		12.35	430	44628	~~11.38~~	~~UG/ML~~	38
17)	*d8-Naphthalene		14.40	531	532142	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.35	430	302847	41.10	UG/ML	92
32)	*d10-Acenaphthene		19.87	800	187300	40.00	UG/ML	99
36)	2-Fluorobiphenyl	(SURR)	17.94	705	311718	41.69	UG/ML	98
54)	*d10-Phenanthrene		24.30	1018	167522	40.00	UG/ML	98
62)	Di-n-butyl phthalate		26.61	1132	2002	~~.277~~	~~UG/ML~~	97
65)	*d12-Chrysene		32.30	1412	82871	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	29.32	1265	79436	38.77	UG/ML	94
72)	bis(2-Ethylhexyl)phthalate		32.30	1412	3318	~~1.19~~	~~UG/ML~~	54
72)	bis(2-Ethylhexyl)phthalate		32.95	1444	7096	~~2.45~~	~~UG/ML~~	46
73)	*d12-Perylene		36.31	1609	64060	40.00	UG/ML	90
74)	Di-n-octyl phthalate		34.09	1500	2905	~~.883~~	~~UG/ML~~	94
74)	Di-n-octyl phthalate		34.21	1506	2462	~~.748~~	~~UG/ML~~	92
74)	Di-n-octyl phthalate		34.82	1536	9861	~~3.00~~	~~UG/ML~~	99

* Compound is ISTD

GA
11-29-89

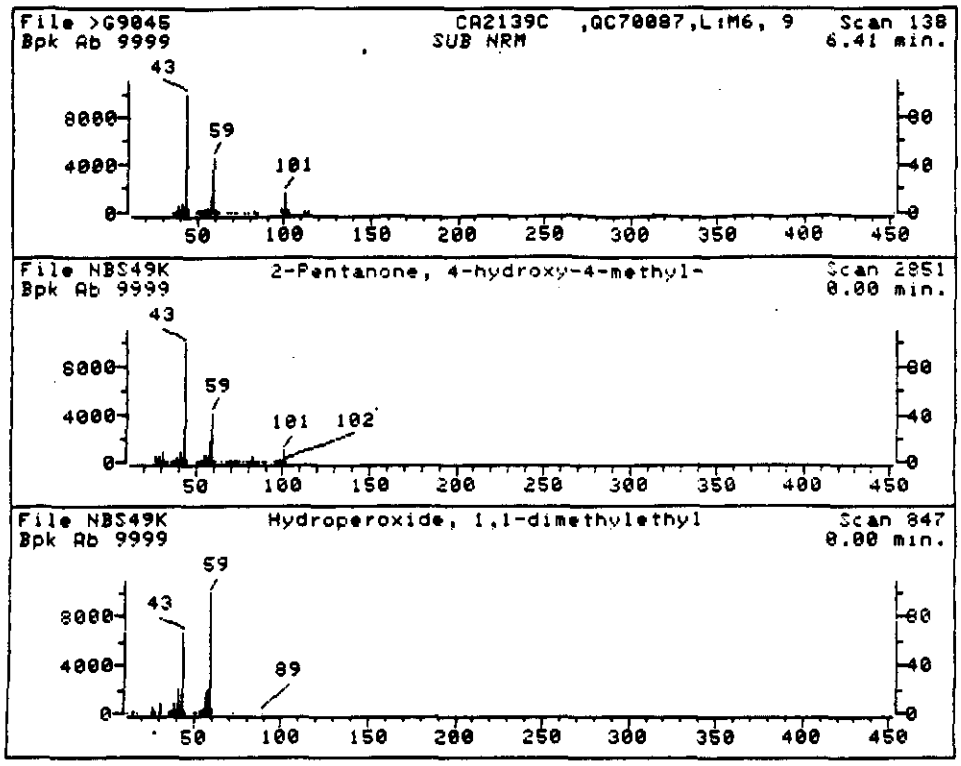


Data File: >G9045::U5
Name:
Misc Data: CA2139C ,QC70087,L:M6, 940,2 BTL#11
RT (min): 5.01
Scan: 69
Area: 2548884 Rank: 1
Semi-quantitative Conc (uncorrected): 103.26 UG/ML
Semi-quantitative Conc (corrected): 219.70 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.62 minutes

1. Acetic acid, ethyl ester 88 C4H8O2

Sample file: >G9045 Spectrum #: 69
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	52*	141786	2197	NBS49K	32	46	2	0	100	20	20	16

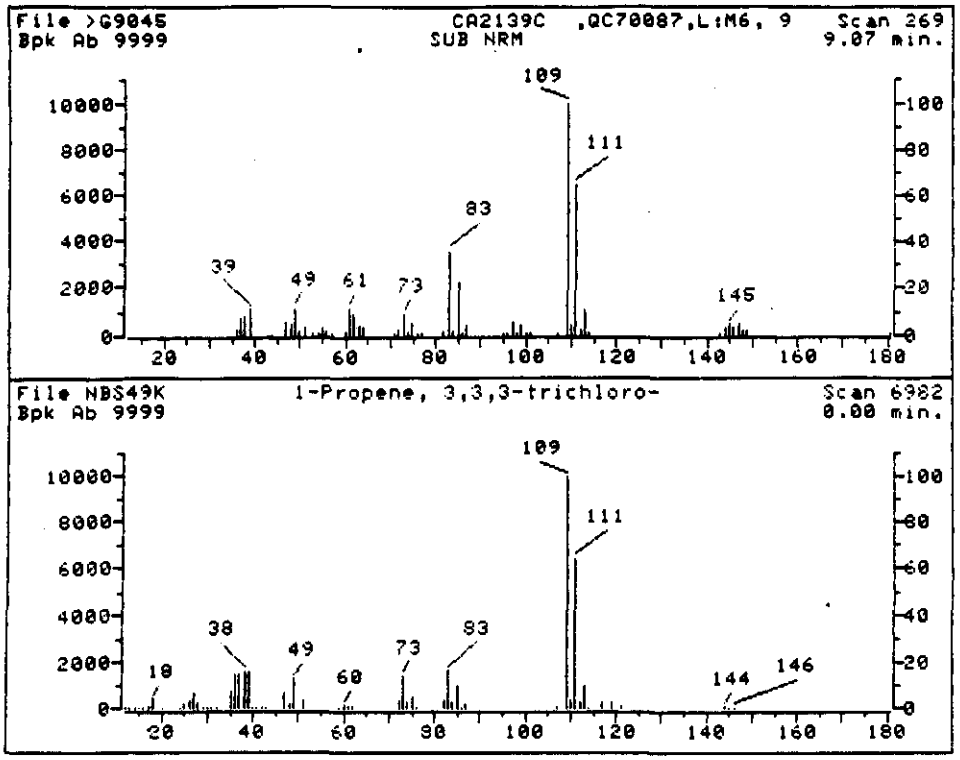


Data File: >G9045::U5
Name:
Misc Data: CA2139C ,QC70087,L:M6, 940,2 BTL#11
RT (min): 6.41
Scan: 138
Area: 721367 Rank: 4
Semi-quantitative Conc (uncorrected): 29.22 UG/ML
Semi-quantitative Conc (corrected): 62.18 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.62 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2
2. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9045 Spectrum #: 138
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	123422	1790	NBS49K	43	40	2	0	77	4	55	14
2.	25	75912	1733	NBS49K	34	31	1	0	38	50	7	12

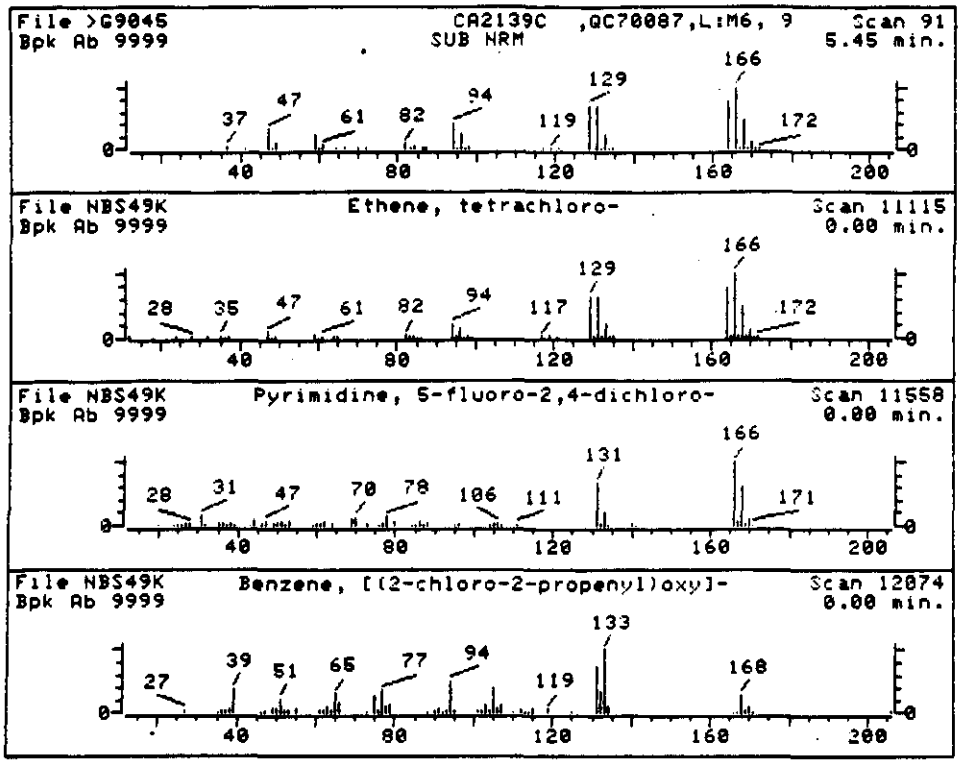


Data File: >G9045::U5
Name:
Misc Data: CA2139C ,QC70087,L:M6, 940,2 BTL#11
RT (min): 9.07
Scan: 269
Area: 245785 Rank: 5
Semi-quantitative Conc (uncorrected): 9.96 UG/ML
Semi-quantitative Conc (corrected): 21.19 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.62 minutes

1. 1-Propene, 3,3,3-trichloro- 144 C3H3Cl3

Sample file: >G9045 Spectrum #: 269
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	2233003	11547	NBS49K	34	79	2	0	87	19	20	14

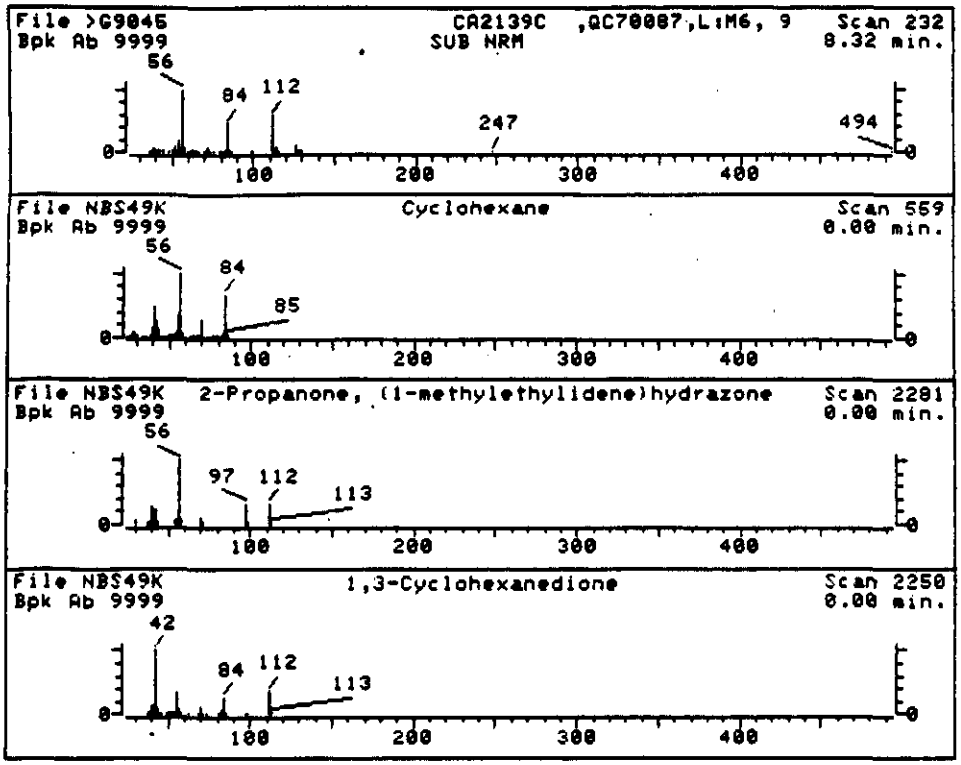


Data File: >G9045::U5
Name:
Misc Data: CA2139C ,QC70087,L:M6, 940,2 BTL#11
RT (min): 5.45
Scan: 91
Area: 223159 Rank: 6
Semi-quantitative Conc (uncorrected): 9.04 UG/ML
Semi-quantitative Conc (corrected): 19.24 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.62 minutes

1.	Ethene, tetrachloro-	164 C2C14
2.	Pyrimidine, 5-fluoro-2,4-dichloro-	166 C4HC12FN2
3.	Benzene, [(2-chloro-2-propenyl)oxy]-	168 C9H9C1O

Sample file: >G9045 Spectrum #: 91
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	127184	22186	NBS49K	77	45	0	0	87	13	64	93
2.	29*	2927711	22194	NBS49K	45	65	3	0	76	48	7	13
3.	11*	53299539	16118	NBS49K	22	104	3	0	82	63	2	12

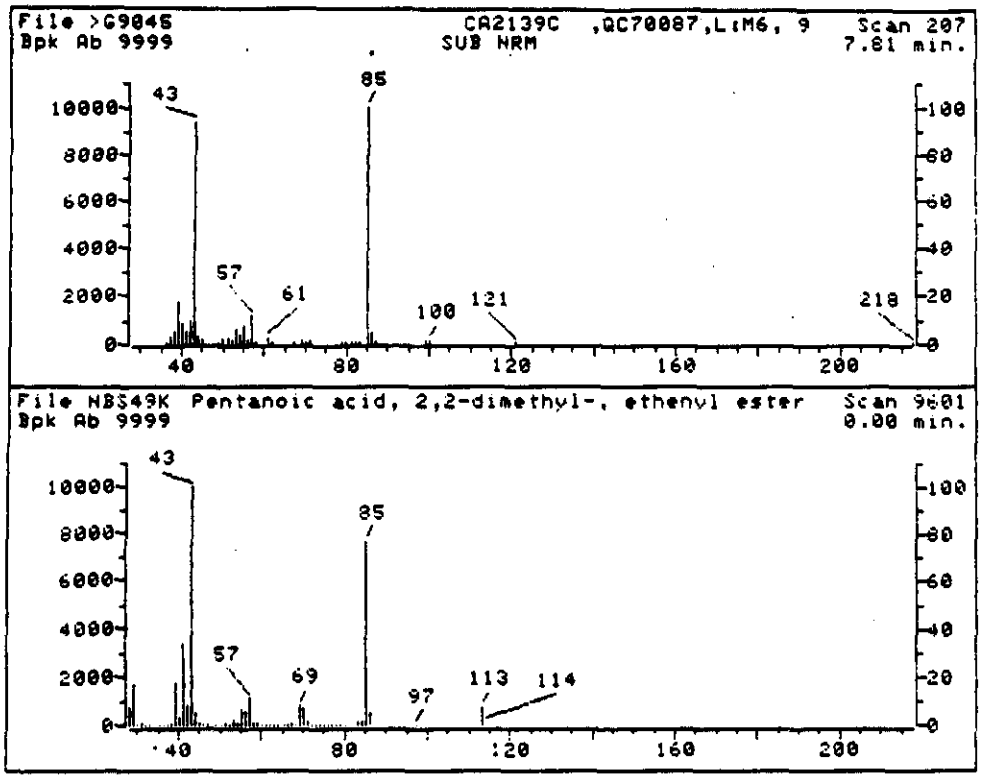


Data File: >G9045::U5
Name:
Misc Data: CA2139C ,QC70087,L:M6, 940,2 BTL#11
RT (min): 8.32
Scan: 232
Area: 141970 Rank: 8
Semi-quantitative Conc (uncorrected): 5.75 UG/ML
Semi-quantitative Conc (corrected): 12.24 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.62 minutes

1.	Cyclohexane	84 C6H12
2.	2-Propanone, (1-methylethylidene)hydrazone	112 C6H12N2
3.	1,3-Cyclohexanedione	112 C6H8O2

Sample file: >G9045 Spectrum #: 232
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	27*	110827	6301	NBS49K	32	55	3	0	69	40	10	13
2.	25*	627703	12011	NBS49K	27	60	2	0	100	47	7	14
3.	20*	504029	11992	NBS49K	32	51	2	0	163	54	5	16



Data File: >G9045::U5
Name:
Misc Data: CA2139C ,QC70087,L:M6, 940,2 BTL#11
RT (min): 7.81
Scan: 207
Area: 134139 Rank: 9
Semi-quantitative Conc (uncorrected): 5.43 UG/ML
Semi-quantitative Conc (corrected): 11.56 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.62 minutes

1. Pentanoic acid, 2,2-dimethyl-, ethenyl ester 156 C9H16O2

Sample file: G9045 Spectrum #: 207
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IO
1.	35	44970050	6671	NBS49k	36	46	2	0	94	26	14	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2140C

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: >G9079

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. dec. Date Extracted: 10/11/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/16/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	56	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2140C

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: >G9079

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. dec. Date Extracted: 10/11/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/16/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	56	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2140C

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: >G9079

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/11/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/16/89

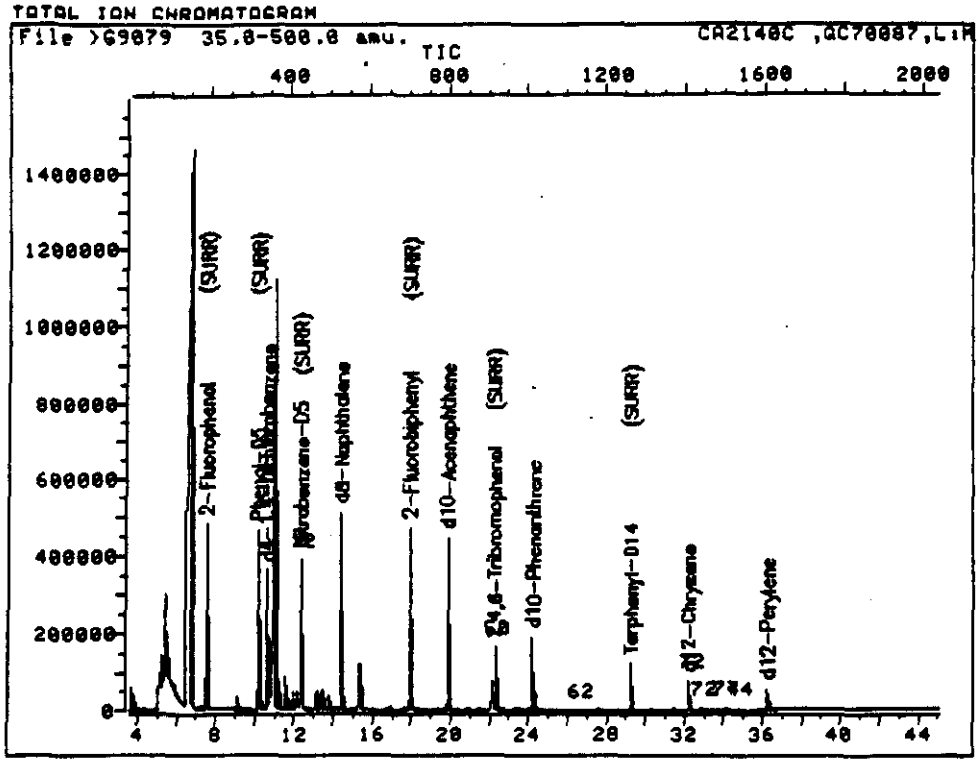
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 14

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01.		ACETONE DIMER	6.65	1300	BJ
02.		UNKNOWN	10.92	470	J
03.	141-78-6	Acetic acid, ethyl ester	5.04	62	BJ
04.		UNKNOWN	15.27	47	J
05.		UNKNOWN	22.05	87	J
06.	127-18-4	Ethene, tetrachloro-	5.41	34	J
07.		UNKNOWN	11.51	26	J
08.	141-79-7	3-Penten-2-one, 4-methyl-	5.20	22	J
09.		UNKNOWN	11.14	20	J
10.		UNKNOWN	12.08	18	J
11.		UNKNOWN	11.86	15	J
12.		UNKNOWN	13.38	12	J
13.	625-33-2	3-Penten-2-one	3.68	14	J
14.		UNKNOWN	13.06	11	J

TOTAL ION CHROMATOGRAM



Data File: >G9079::U4 Quant Output File: ^G9079::AQ
Name:
Misc: CA2140C ,QC70087,L:M6,900,2 BTL# 5

Id File: IG0131::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891116 16:06

Operator ID: CA3875
Quant Time: 891116 18:10
Injected at: 891116 17:22

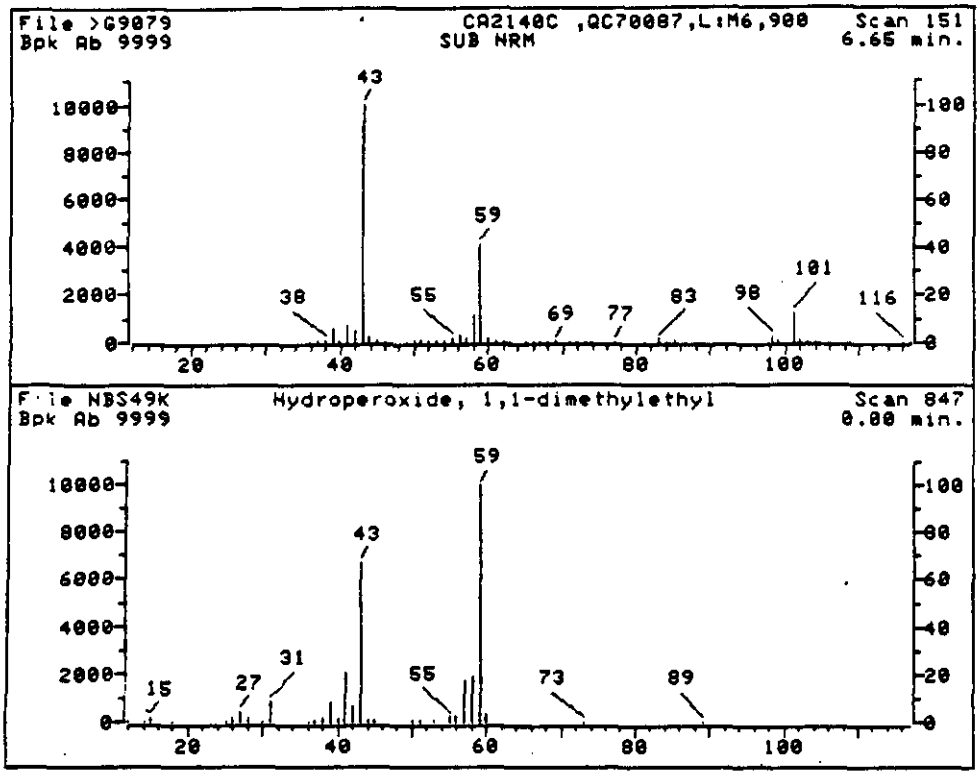
Operator ID: CA3875 Quant Rev: 7 Quant Time: 891116 18:10
Output File: ^G9079::AQ Injected at: 891116 17:22
Data File: >G9079::U4 Dilution Factor: 1.00000
Name:
Misc: CA2140C ,QC70087,L:M6,900,2 BTL# 5

ID File: IG0131::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891116 16:06

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.57	344	252117	40.00	UG/ML	88
3)	2-Fluorophenol	(SURR)	7.48	192	303339	61.42	UG/ML	92
5)	Phenol-D5	(SURR)	10.13	322	373173	60.42	UG/ML	90
12)	N-Nitrosodi-n-propylamine		12.30	429	46424	~~11.42~~	~~UG/ML~~	38
17)	*d8-Naphthalene		14.36	530	589730	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.30	429	316491	38.00	UG/ML	93
32)	*d10-Acenaphthene		19.81	798	244976	40.00	UG/ML	97
36)	2-Fluorobiphenyl	(SURR)	17.88	703	374359	34.89	UG/ML	98
50)	Fluorene		22.23	917	3592	~~.497~~	~~UG/ML~~	86
52)	2,4,6-Tribromophenol	(SURR)	22.23	917	49867	58.82	UG/ML	97
54)	*d10-Phenanthrene		24.23	1015	181325	40.00	UG/ML	97
62)	Di-n-butyl phthalate		26.56	1130	2454	~~.325~~	~~UG/ML~~	96
65)	*d12-Chrysene		32.21	1408	77968	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	29.25	1262	106781	52.04	UG/ML	94
72)	bis(2-Ethylhexyl)phthalate		32.21	1408	2596	~~1.01~~	~~UG/ML~~	54
72)	bis(2-Ethylhexyl)phthalate		32.86	1440	5257	~~2.06~~	~~UG/ML~~	47
73)	*d12-Perylene		36.22	1605	56880	40.00	UG/ML	92
74)	Di-n-octyl phthalate		34.02	1497	2239	~~.728~~	~~UG/ML~~	92
74)	Di-n-octyl phthalate		34.73	1532	7203	~~2.34~~	~~UG/ML~~	99

* Compound is ISTD

CA
11-29-89

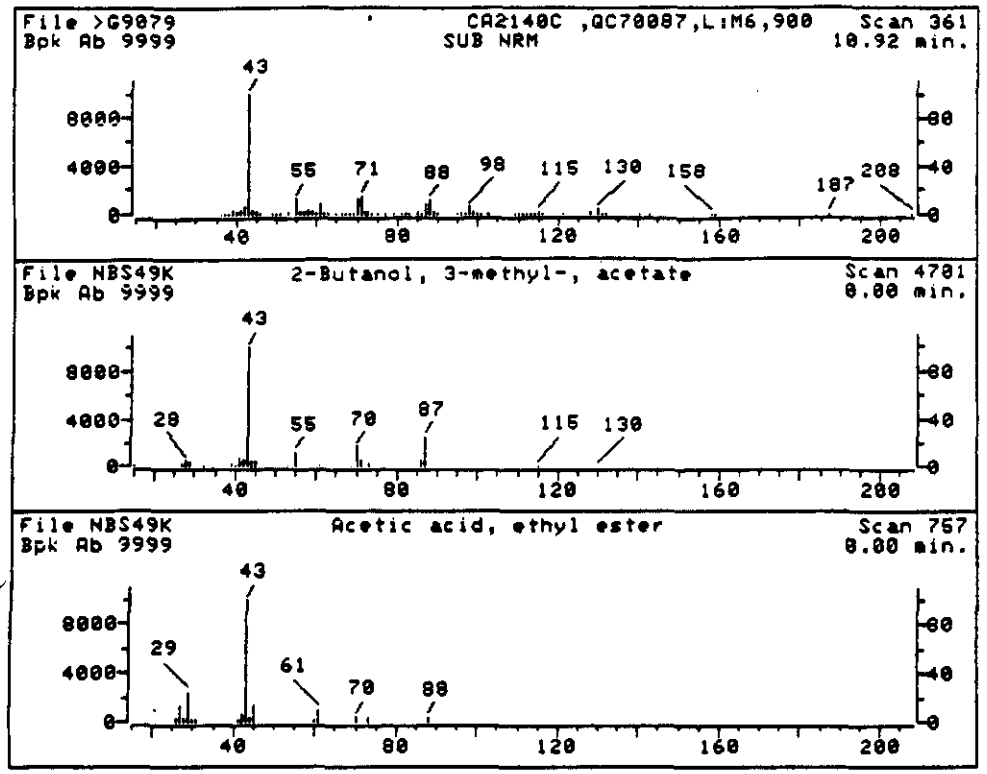


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 6.65
Scan: 151
Area: 15384130 Rank: 1
Semi-quantitative Conc (uncorrected): 603.21 UG/ML
Semi-quantitative Conc (corrected): 1340.46 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9079 Spectrum #: 151
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20	75912	1733	NBS49K	34	31	1	0	32	51	5	12

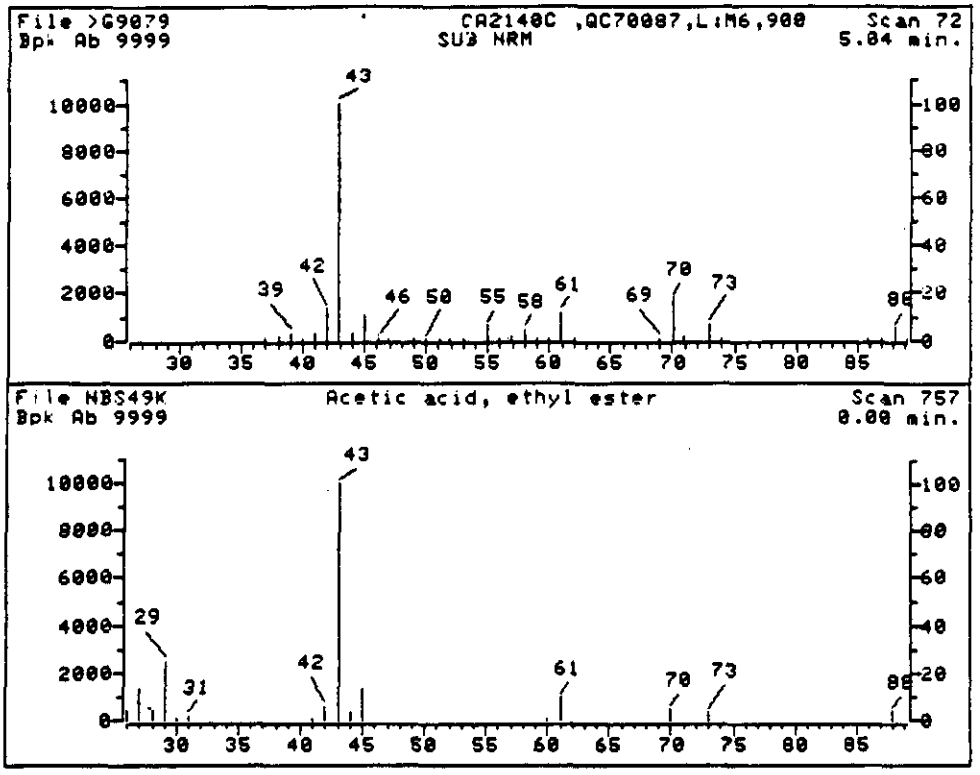


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 10.92
Scan: 361
Area: 5412945 Rank: 2
Semi-quantitative Conc (uncorrected): 212.24 UG/ML
Semi-quantitative Conc (corrected): 471.64 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1. 2-Butanol, 3-methyl-, acetate 130 C7H14O2
2. Acetic acid, ethyl ester 88 C4H8O2

Sample file: >G9079 Spectrum #: 361
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	37*	5343964	7303	NBS49K	24	51	2	0	72	27	14	14
2.	31*	141786	2197	NBS49K	20	58	1	0	71	31	12	14

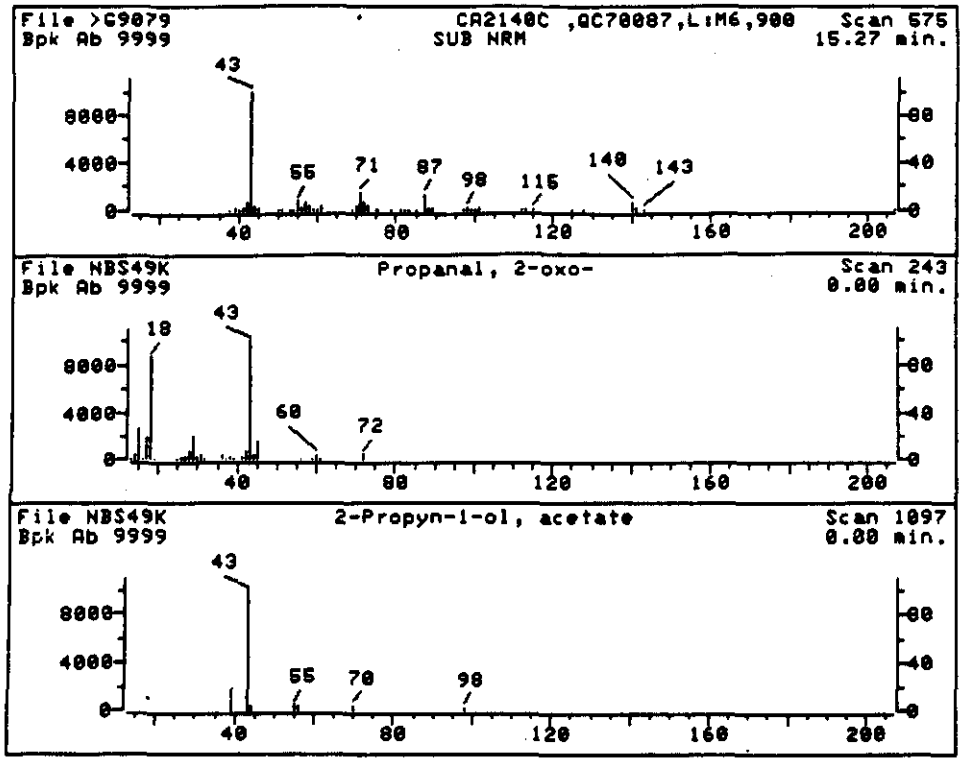


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 5.04
Scan: 72
Area: 715352 Rank: 7
Semi-quantitative Conc (uncorrected): 28.05 UG/ML
Semi-quantitative Conc (corrected): 62.33 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1. Acetic acid, ethyl ester 88 C4H8O2

Sample file: >G9079 Spectrum #: 72
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	141786	2197	NBS49K	28	50	1	0	77	15	30	15

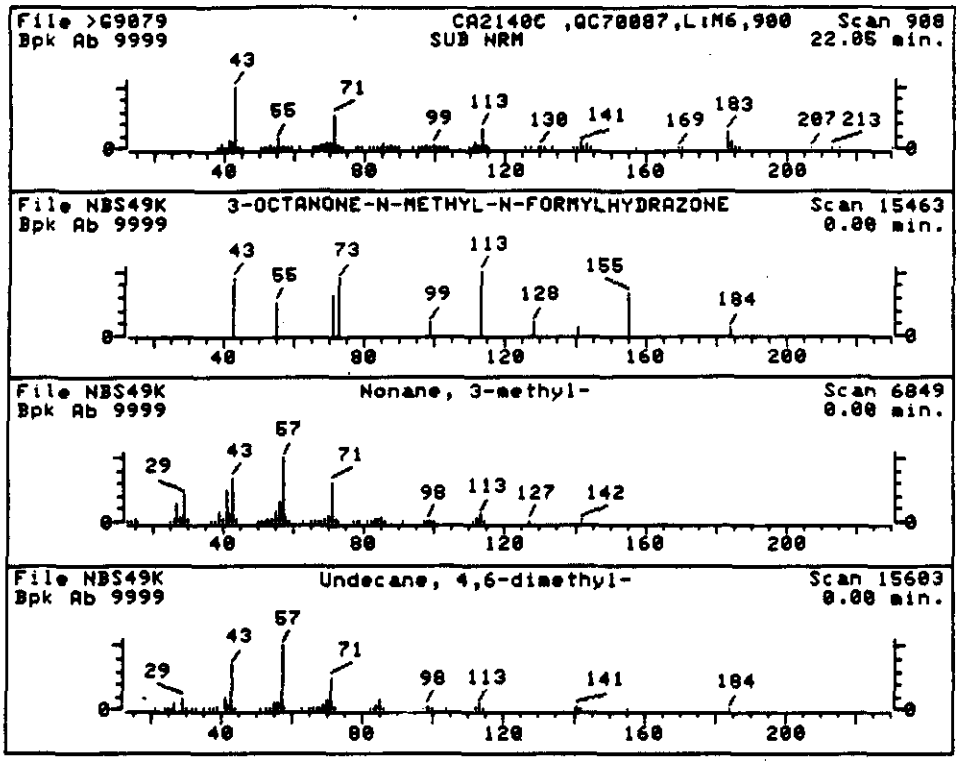


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 15.27
Scan: 575
Area: 639608 Rank: 8
Semi-quantitative Conc (uncorrected): 21.19 UG/ML
Semi-quantitative Conc (corrected): 47.10 ug/l
Calculated using Istd: d8-Naphthalene @ 14.36 minutes

1. Propanal, 2-oxo- 72 C3H4O2
2. 2-Propyn-1-ol, acetate 98 C5H6O2

Sample file: >G9079 Spectrum #: 575
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	37*	78988	29	NBS49K	20	62	1	0	66	30	14	14
2.	31*	627098	250	NBS49K	23	9	1	0	79	34	12	14

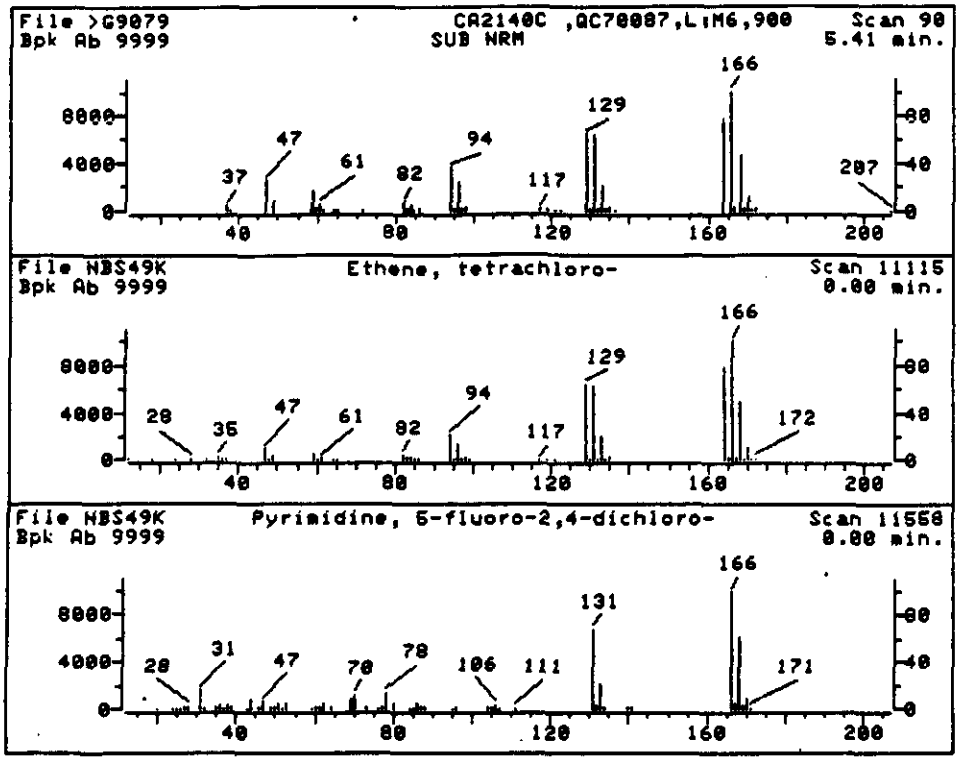


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 22.05
Scan: 908
Area: 467787 Rank: 9
Semi-quantitative Conc (uncorrected): 39.07 UG/ML
Semi-quantitative Conc (corrected): 86.81 ug/l
Calculated using Istd: d10-Phenanthrene @ 24.23 minutes

1.	3-OCTANONE-N-METHYL-N-FORMYLHYDRAZONE	184	C10H20N2O
2.	Nonane, 3-methyl-	142	C10H22
3.	Undecane, 4,6-dimethyl-	184	C13H28

Sample file: >G9079 Spectrum #: 908
Search speed: 2 Tilting option: S No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	27*	61748194	12427	NBS49K	28	57	3	0	84	36	10	13
2.	20*	5911046	12331	NBS49K	29	68	2	0	86	54	5	14
3.	20*	17312822	4387	NBS49K	27	71	2	0	105	54	5	14

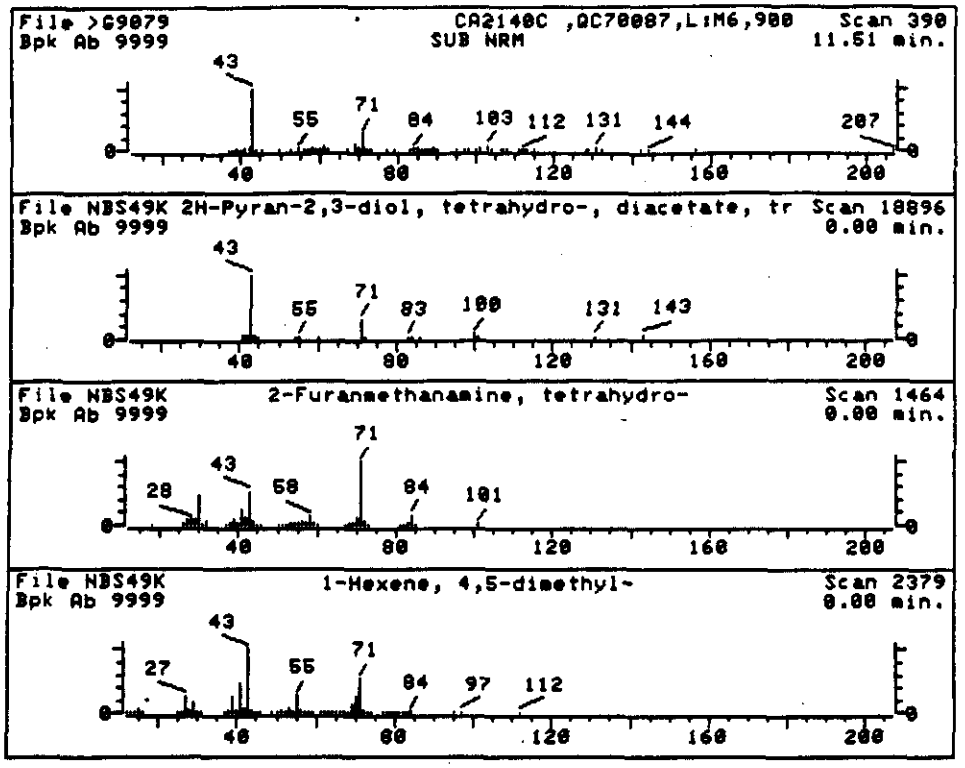


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 5.41
Scan: 90
Area: 391978 Rank: 11
Semi-quantitative Conc (uncorrected): 15.37 UG/ML
Semi-quantitative Conc (corrected): 34.15 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1. Ethene, tetrachloro- 164 C2Cl4
2. Pyrimidine, 5-fluoro-2,4-dichloro- 166 C4HCl2FN2

Sample file: >G9079 Spectrum #: 90
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	95*	127184	22186	NBS49K	114	8	1	1	88	0	72	93
2.	25*	2927711	22194	NBS49K	45	65	3	0	75	45	8	13

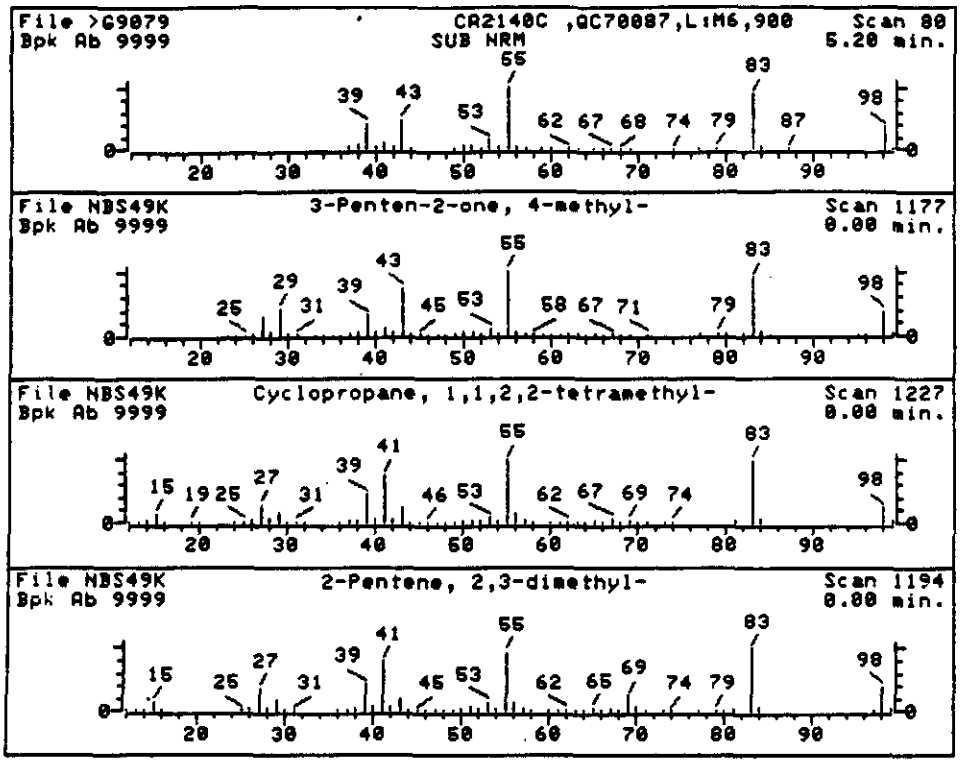


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 11.51
Scan: 390
Area: 296693 Rank: 12
Semi-quantitative Conc (uncorrected): 11.63 UG/ML
Semi-quantitative Conc (corrected): 25.85 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1. 2H-Pyran-2,3-diol, tetrahydro-, diacetate, trans- 202 C9H14O5
2. 2-Furanmethanamine, tetrahydro- 101 C5H11NO
3. 1-Hexene, 4,5-dimethyl- 112 C8H16

Sample file: >G9079 Spectrum #: 390
Search speed: 2 Tilting option: S No. of ion ranges searched: 58

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25	3021941	4412	NBS49K	39	45	2	0	91	47	7	13
2.	20*	4795293	4276	NBS49K	26	37	1	0	21	52	5	14
3.	15*	16106595	4285	NBS49K	22	65	2	0	50	56	3	13

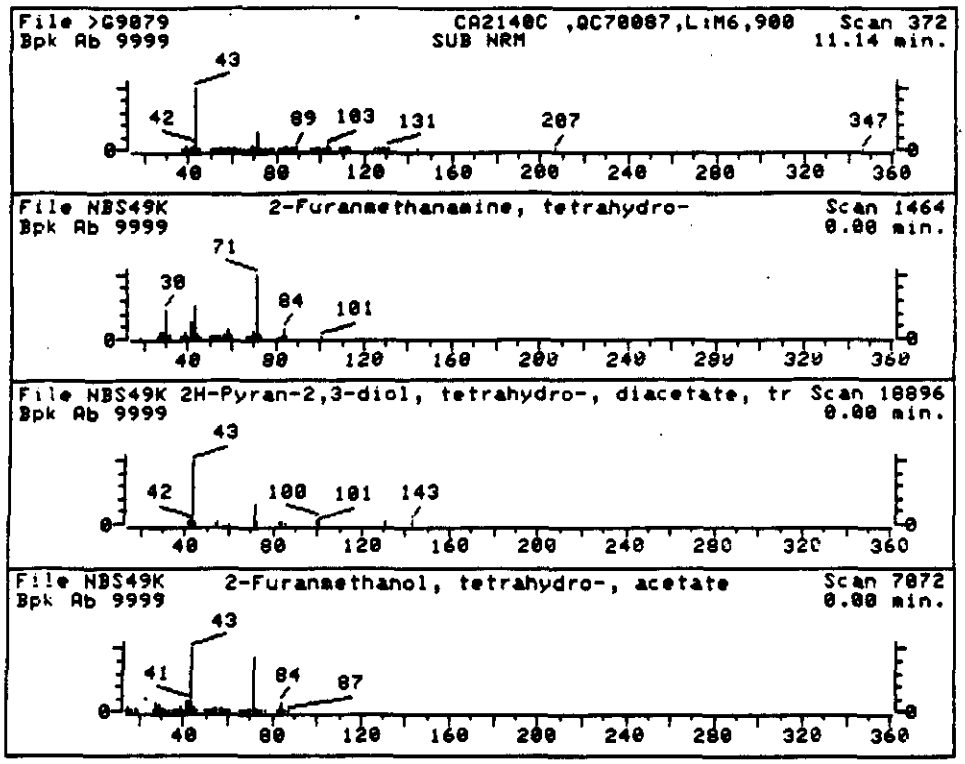


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 5.20
Scan: 80
Area: 249977 Rank: 14
Semi-quantitative Conc (uncorrected): 9.80 UG/ML
Semi-quantitative Conc (corrected): 21.78 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1. 3-Penten-2-one, 4-methyl- 98 C6H10O
2. Cyclopropane, 1,1,2,2-tetramethyl- 98 C7H14
3. 2-Pentene, 2,3-dimethyl- 98 C7H14

Sample file: >G9079 Spectrum #: 80
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	141797	6140	NBS49K	66	26	1	0	81	27	29	66
2.	70*	4127473	6149	NBS49K	43	54	2	0	91	10	42	19
3.	70*	10574375	9446	NBS49K	40	61	3	0	89	7	42	13

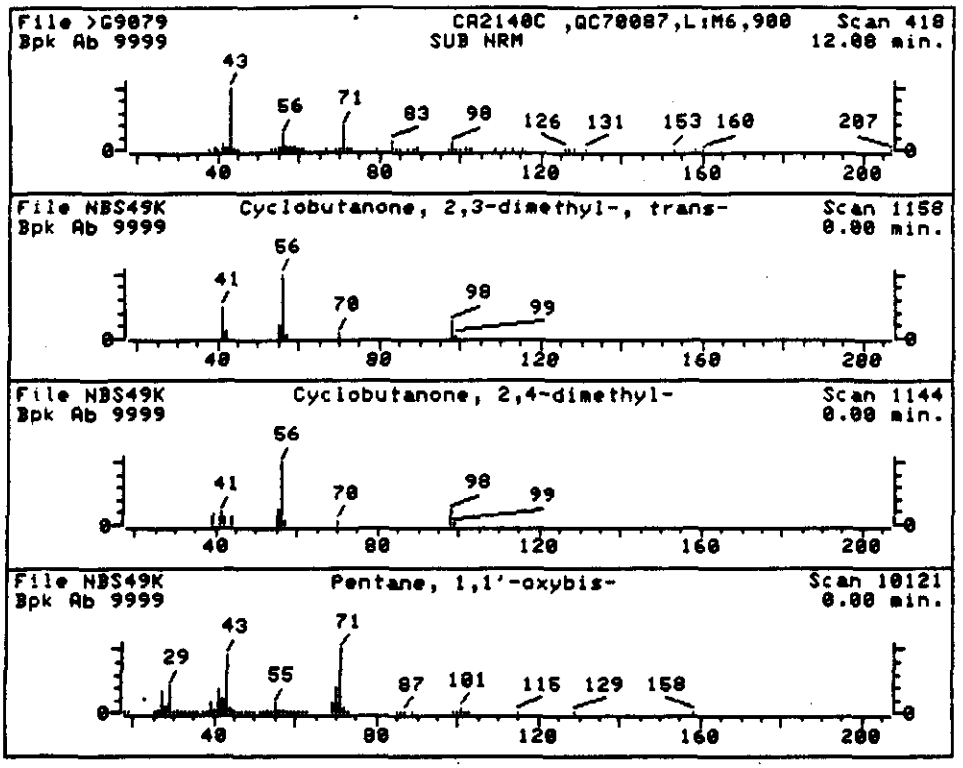


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 11.14
Scan: 372
Area: 228113 Rank: 15
Semi-quantitative Conc (uncorrected): 8.94 UG/ML
Semi-quantitative Conc (corrected): 19.88 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1.	2-Furanmethanamine, tetrahydro-	101	C5H11NO
2.	2H-Pyran-2,3-diol, tetrahydro-, diacetate, trans-	202	C9H14O5
3.	2-Furanmethanol, tetrahydro-, acetate	144	C7H12O3

Sample file: >G9079 Spectrum #: 372
Search speed: 2 Tilting option: S No. of ion ranges searched: 61

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	4795293	4276	NBS49K	22	41	1	0	22	47	7	14
2.	25	3021941	4412	NBS49K	44	40	2	0	98	47	7	14
3.	20	637649	4334	NBS49K	25	43	0	0	25	52	5	12

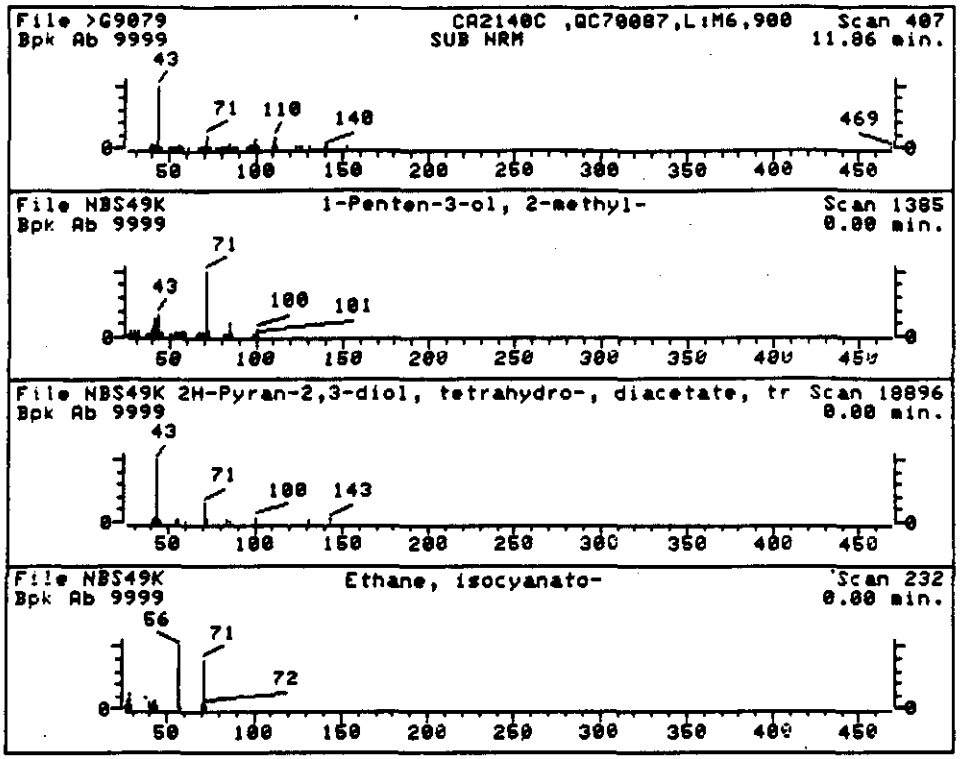


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 12.08
Scan: 418
Area: 210949 Rank: 16
Semi-quantitative Conc (uncorrected): 8.27 UG/ML
Semi-quantitative Conc (corrected): 18.38 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1.	Cyclobutanone, 2,3-dimethyl-, trans-	98 C6H10O
2.	Cyclobutanone, 2,4-dimethyl-	98 C6H10O
3.	Pentane, 1,1'-oxybis-	158 C10H22O

Sample file: >G9079 Spectrum #: 418
Search speed: 2 Tilting option: S No. of ion ranges searched: 65

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	1942423	1036	NBS49K	30	12	1	0	25	55	5	16
2.	20*	43042677	1033	NBS49K	29	22	2	0	25	55	5	14
3.	15*	693652	4365	NBS49K	31	46	2	0	36	58	3	15

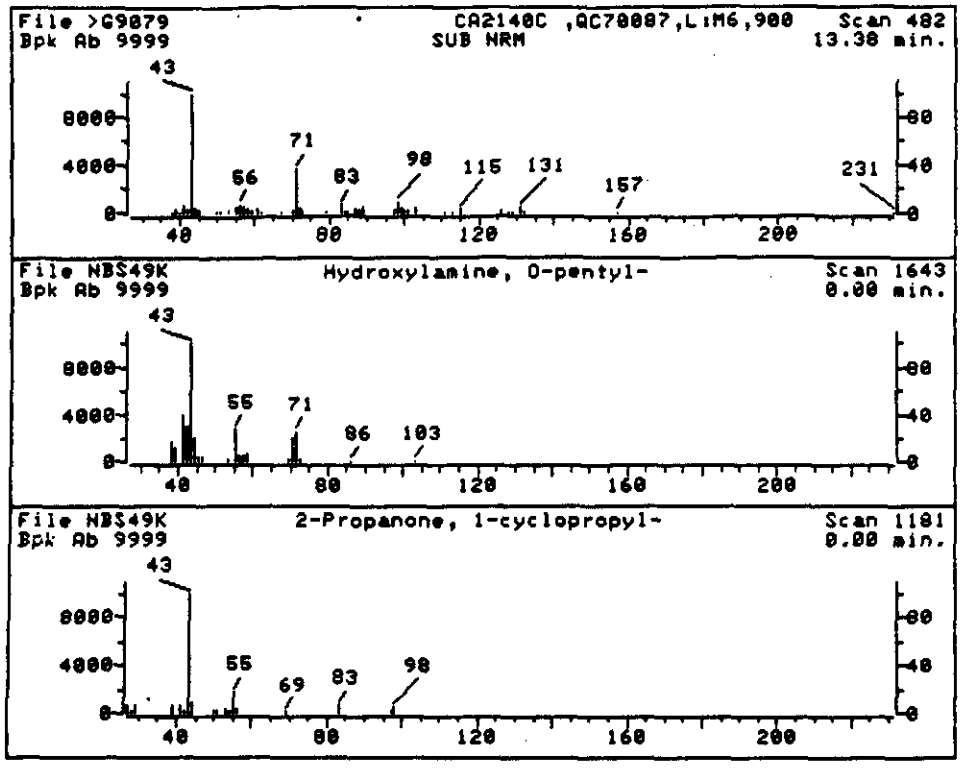


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 11.86
Scan: 407
Area: 173022 Rank: 17
Semi-quantitative Conc (uncorrected): 6.78 UG/ML
Semi-quantitative Conc (corrected): 15.08 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1. 1-Penten-3-ol, 2-methyl- 100 C6H12O
2. 2H-Pyran-2,3-diol, tetrahydro-, diacetate, trans- 202 C9H14O5
3. Ethane, isocyanato- 71 C3H5NO

Sample file: >G9079 Spectrum #: 407
Search speed: 2 Tilting option: S No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	2088075	4271	NBS49K	22	38	3	0	20	46	7	12
2.	15	3021941	4412	NBS49K	43	41	1	0	51	57	3	15
3.	11*	109900	4251	NBS49K	25	34	1	0	26	65	2	14

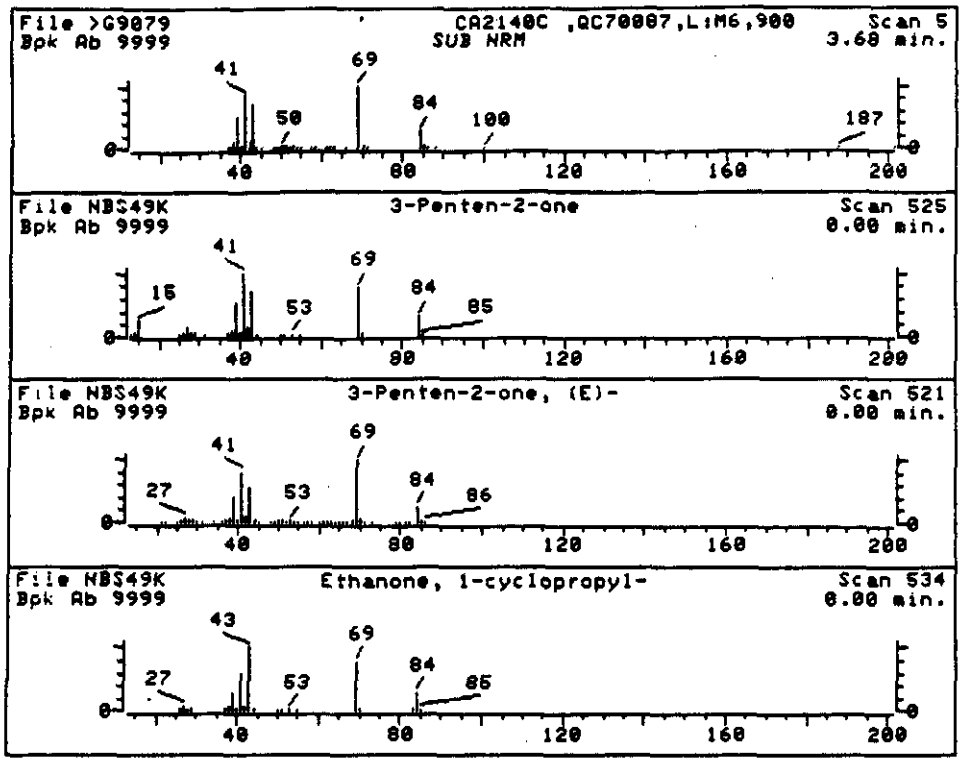


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 13.38
Scan: 482
Area: 162393 Rank: 18
Semi-quantitative Conc (uncorrected): 5.38 UG/ML
Semi-quantitative Conc (corrected): 11.96 ug/l
Calculated using Istd: d8-Naphthalene @ 14.36 minutes

1. Hydroxylamine, O-pentyl- 103 C5H13NO
2. 2-Propanone, 1-cyclopropyl- 98 C6H10O

Sample file: >G9079 Spectrum #: 482
Search speed: 2 Tilting option: S No. of ion ranges searched: 59

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	52*	5963746	3873	NBS49K	22	70	3	0	100	19	20	12
2.	30*	4160752	253	NBS49K	23	42	2	0	100	33	12	13

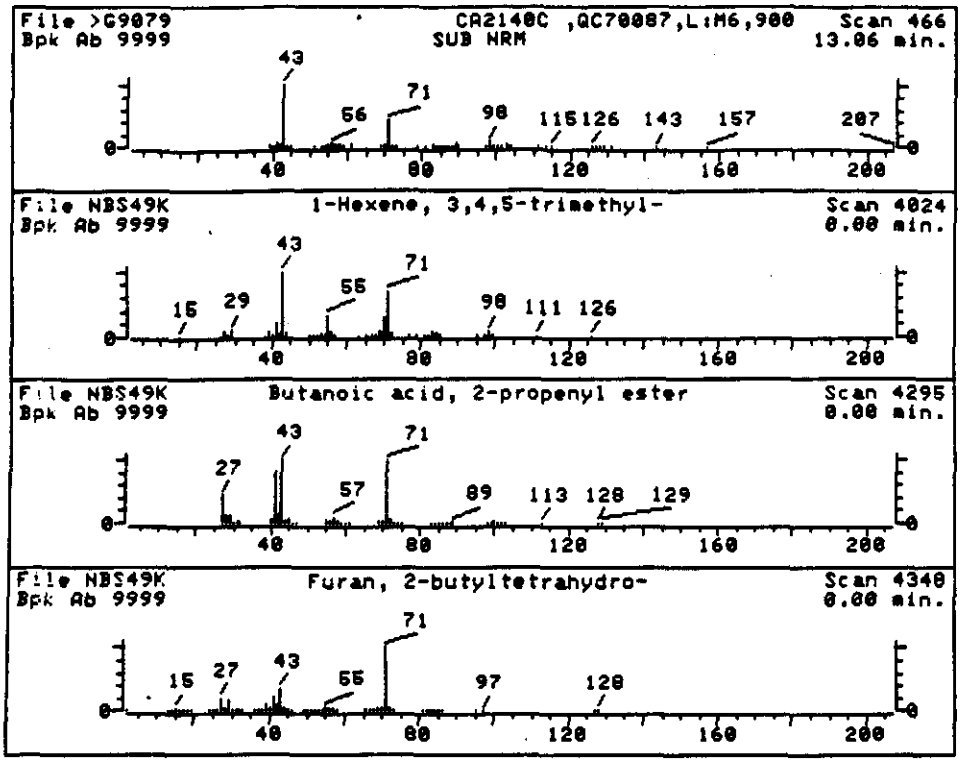


Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 3.68
Scan: 5
Area: 155911 Rank: 19
Semi-quantitative Conc (uncorrected): 6.11 UG/ML
Semi-quantitative Conc (corrected): 13.58 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.60 minutes

1.	3-Penten-2-one	84 C5H8O
2.	3-Penten-2-one, (E)-	84 C5H8O
3.	Ethanone, 1-cyclopropyl-	84 C5H8O

Sample file: >G9079 Spectrum #: 5
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	625332	6282	NBS49K	70	26	0	0	86	5	68	89
2.	79*	3102338	6278	NBS49K	68	13	1	0	97	27	43	80
3.	50*	765435	6286	NBS49K	49	31	2	0	98	29	24	30



Data File: >G9079::U4
Name:
Misc Data: CA2140C ,QC70087,L:M6,900,2 BTL# 5
RT (min): 13.06
Scan: 466
Area: 155262 Rank: 20
Semi-quantitative Conc (uncorrected): 5.14 UG/ML
Semi-quantitative Conc (corrected): 11.43 ug/l
Calculated using Istd: d8-Naphthalene @ 14.36 minutes

1.	1-Hexene, 3,4,5-trimethyl-	126	C9H18
2.	Butanoic acid, 2-propenyl ester	128	C7H12O2
3.	Furan, 2-butyltetrahydro-	128	C8H16O

Sample file: >G9079 Spectrum #: 466
Search speed: 2 Tilting option: S No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	48*	56728100	4297	NBS49K	39	46	2	0	60	24	17	19
2.	27*	2051787	4299	NBS49K	22	49	2	0	43	37	10	13
3.	26*	1004291	4301	NBS49K	26	35	2	0	42	41	8	14

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2141C

Sample wt/vol: 860.0 (g/mL) ML Lab File ID: >G9056

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic acid	58	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	58	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	58	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2141C

Sample wt/vol: 860.0 (g/mL) ML Lab File ID: >G9056

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	58	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	58	U
100-02-7	4-Nitrophenol	58	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	58	U
534-52-1	4,6-Dinitro-2-methylphenol	58	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	58	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	U
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenz(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2141C

Sample wt/vol: 860.0 (g/mL) ML Lab File ID: >G9056

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

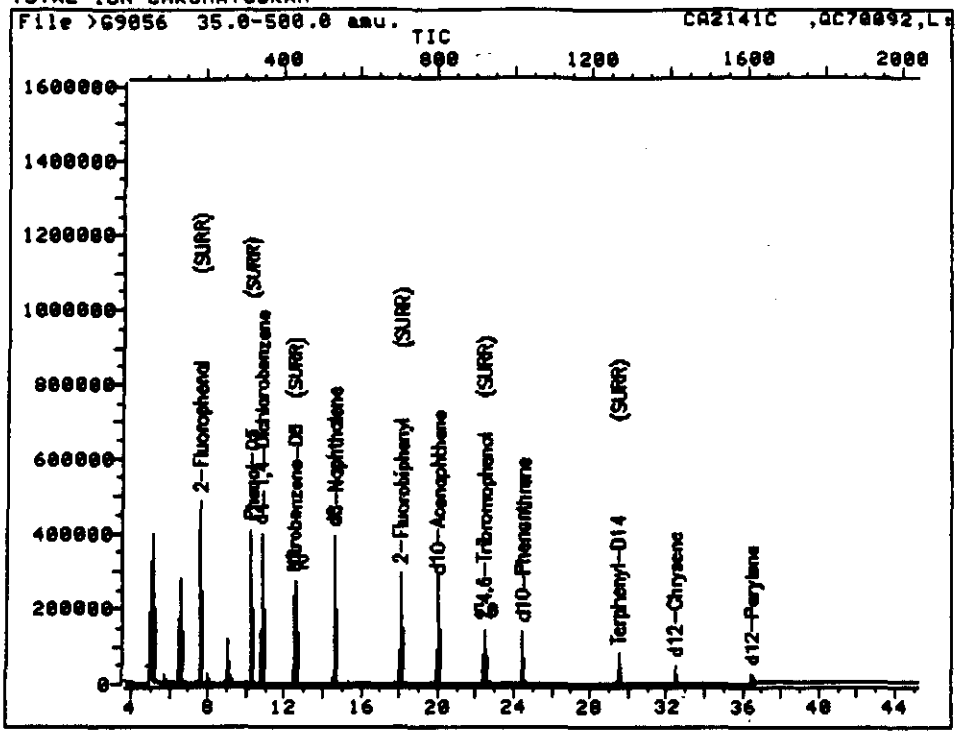
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 141-78-6	Acetic acid, ethyl ester	5.05	370	BJ
02.	ACETONE DIMER	6.46	75	BJ
03.	UNKNOWN	8.98	24	BJ

TOTAL ION CHROMATOGRAM



Data File: >G9056::U3 Quant Output File: ^G9056::AQ
Name:
Misc: CA2141C ,QC70092,L:M6, 860,2 BTL#22

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

Operator ID: PT1575
Quant Time: 891115 13:40
Injected at: 891115 10:57

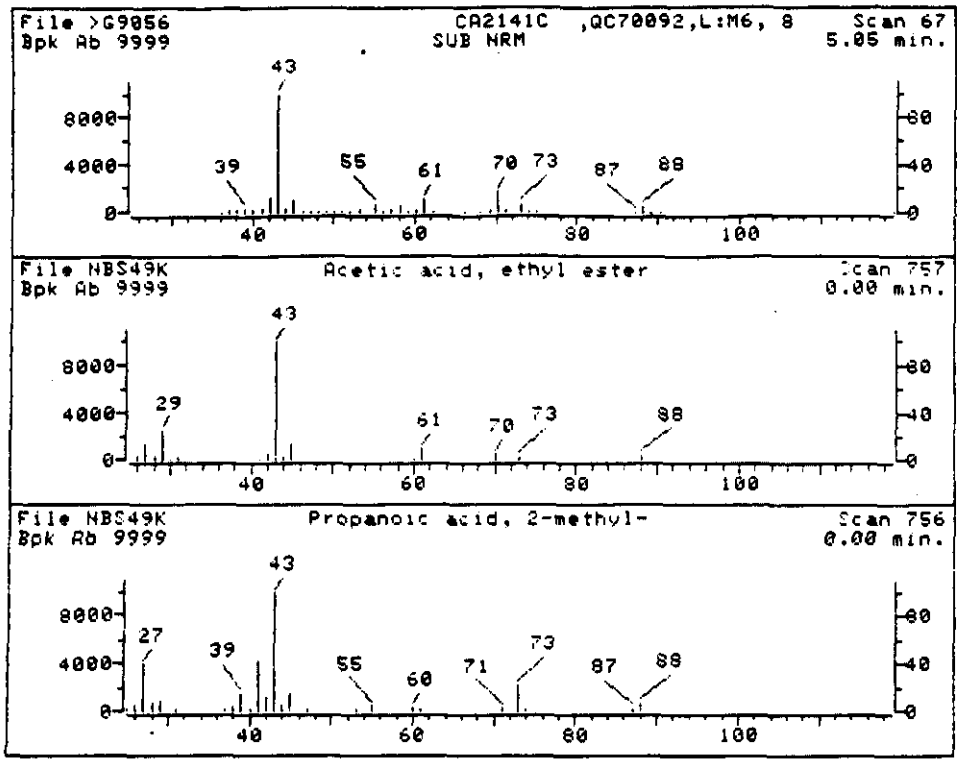
Operator ID: PT1575 Quant Rev: 7 Quant Time: 891115 13:40
Output File: ^G9056::AQ Injected at: 891115 10:57
Data File: >G9056::U3 Dilution Factor: 1.00000
Name:
Misc: CA2141C ,QC70092,L:M6, 860,2 BTL#22

ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.73	346	235102	40.00	UG/ML	89
3)	2-Fluorophenol	(SURR)	7.51	188	333255	76.66	UG/ML	92
5)	Phenol-D5	(SURR)	10.20	320	430403	73.81	UG/ML	96
12)	N-Nitrosodi-n-propylamine		12.45	431	37081	~~11.29~~	~~UG/ML~~	37
17)	*d8-Naphthalene		14.53	533	502344	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.45	431	242430	35.08	UG/ML	88
32)	*d10-Acenaphthene		19.97	801	181473	40.00	UG/ML	98
36)	2-Fluorobiphenyl	(SURR)	18.04	706	244925	32.02	UG/ML	99
50)	Fluorene		22.41	921	2572	~~.468~~	~~UG/ML~~	86
52)	2,4,6-Tribromophenol	(SURR)	22.41	921	37141	53.60	UG/ML	95
54)	*d10-Phenanthrene		24.41	1019	144621	40.00	UG/ML	97
65)	*d12-Chrysene		32.41	1413	45623	40.00	UG/ML	98
67)	Terphenyl-D14	(SURR)	29.45	1267	70619	55.81	UG/ML	95
73)	*d12-Perylene		36.42	1610	27921	40.00	UG/ML	87

* Compound is ISTD

CA 11-30-89

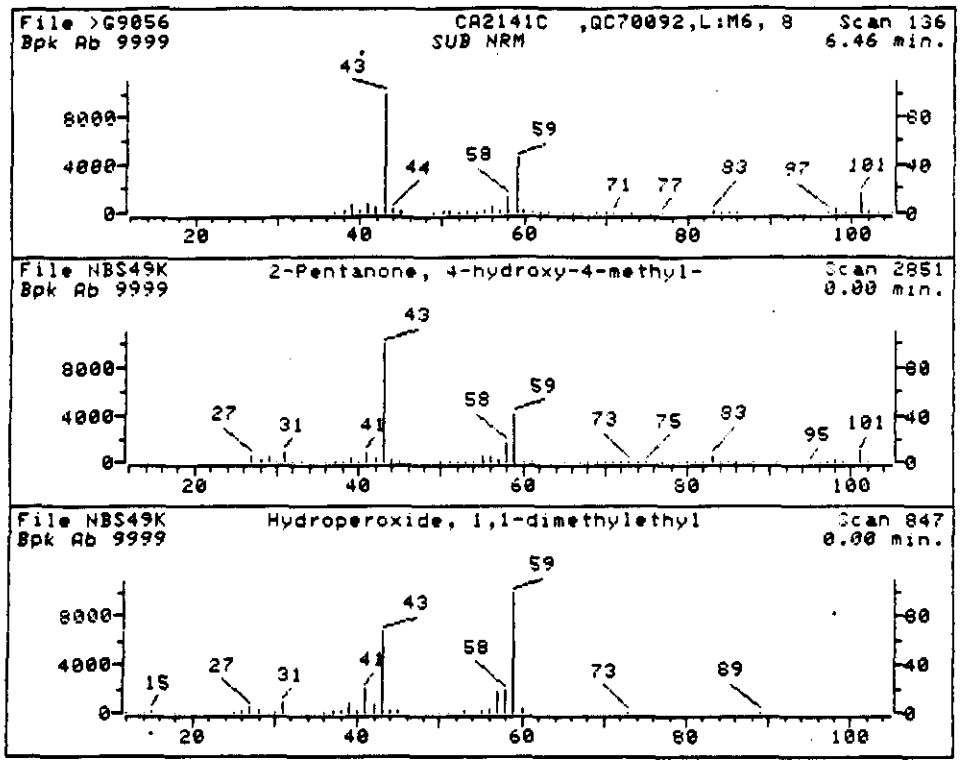


Data File: >G9056::U3
Name:
Misc Data: CA2141C ,QC70092,L:M6, 860,2 BTL#22
RT (min): 5.05
Scan: 67
Area: 3592908 Rank: 1
Semi-quantitative Conc (uncorrected): 157.68 UG/ML
Semi-quantitative Conc (corrected): 366.70 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.73 minutes

1. Acetic acid, ethyl ester 88 C4H8O2
2. Propanoic acid, 2-methyl- 88 C4H8O2

Sample file: >G9056 Spectrum #: 67
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	141786	2197	NBS49K	28	50	1	0	70	15	30	15
2.	25*	79312	4798	NBS49K	21	68	2	0	65	49	7	13

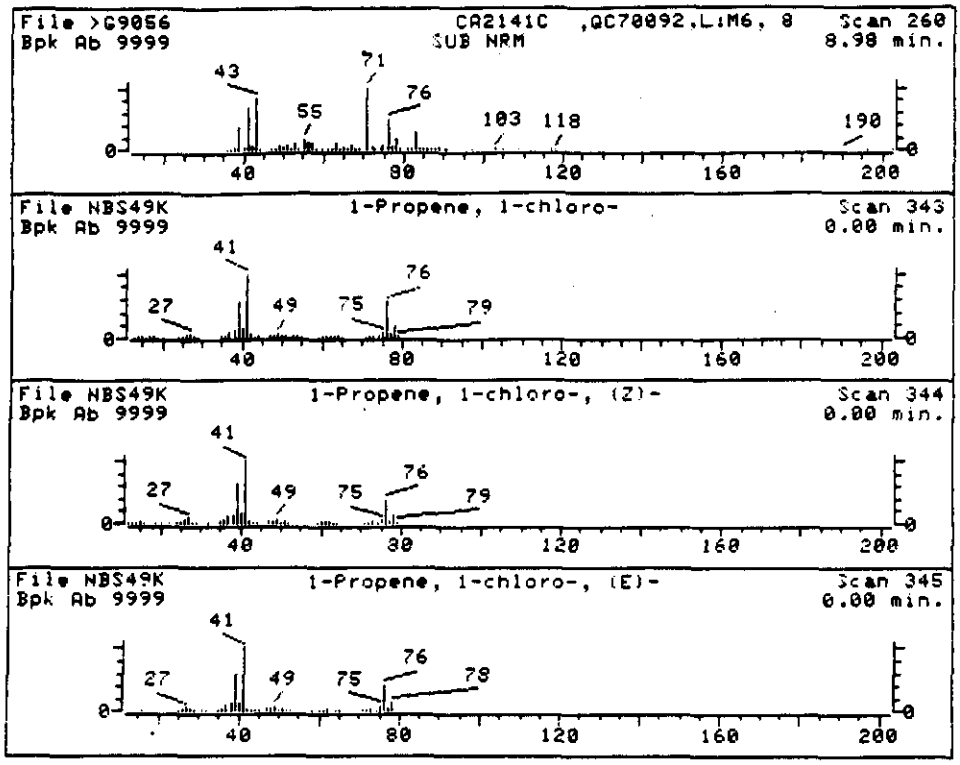


Data File: >G9056::U3
Name:
Misc Data: CA2141C ,QC70092,L:M6, 860,2 BTL#22
RT (min): 6.46
Scan: 136
Area: 735477 Rank: 6
Semi-quantitative Conc (uncorrected): 32.28 UG/ML
Semi-quantitative Conc (corrected): 75.06 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.73 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2
2. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9056 Spectrum #: 136
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IV
1.	70	123422	1790	NBS49K	43	40	2	0	76	6	42	14
2.	20	75912	1733	NBS49K	34	31	1	0	38	51	5	12



Data File: >G9056::U3
Name:
Misc Data: CA2141C ,QC70092,L:M6, 860,2 BTL#22
RT (min): 8.98
Scan: 260
Area: 234803 Rank: 8
Semi-quantitative Conc (uncorrected): 10.30 UG/ML
Semi-quantitative Conc (corrected): 23.96 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.73 minutes

1. 1-Propene, 1-chloro- 76 C3H5Cl
2. 1-Propene, 1-chloro-, (Z)- 76 C3H5Cl
3. 1-Propene, 1-chloro-, (E)- 76 C3H5Cl

Sample file: >G9056 Spectrum #: 260
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58*	590216	5091	NBS49K	51	42	2	1	60	20	25	27
2.	34*	16136848	5092	NBS49K	45	52	2	1	60	31	12	17
3.	30*	16136859	5093	NBS49K	40	58	2	1	60	31	12	13

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2142C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9057

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	54	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	54	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	54	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2142C

Sample wt/vol: 920.0 (g/mL) ML Lab File ID: >G9057

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	54	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	54	U
100-02-7	4-Nitrophenol	54	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	54	U
534-52-1	4,6-Dinitro-2-methylphenol	54	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	54	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water)WATER Lab Sample ID: CA2142C

Sample wt/vol: 920.0 (g/mL)ML Lab File ID: >G9057

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec._____ dec._____ Date Extracted:10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

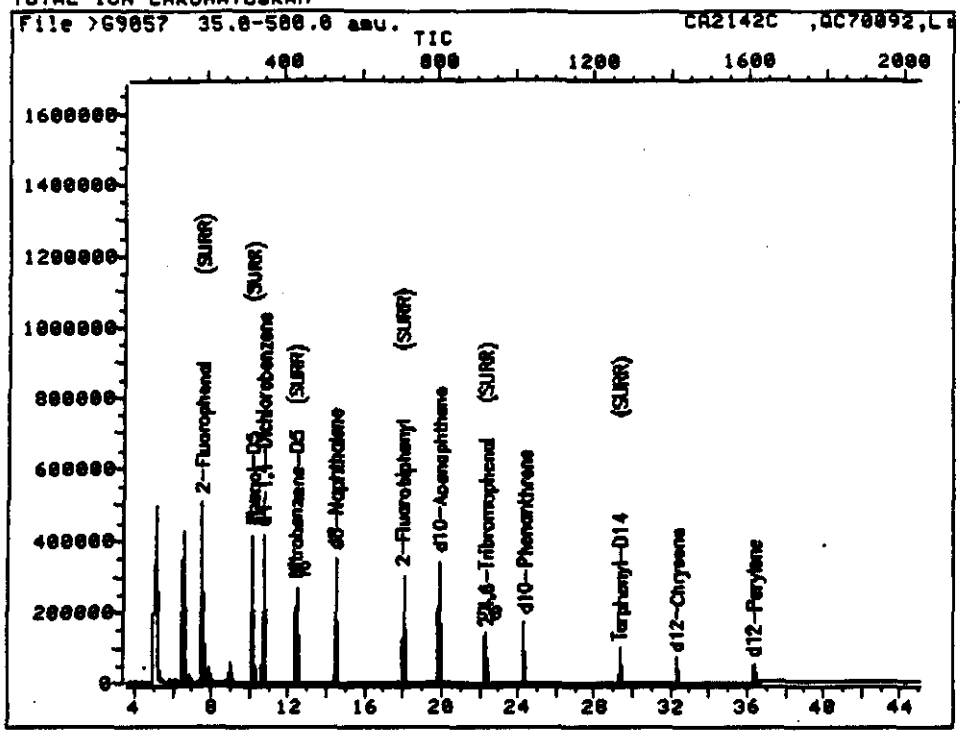
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 141-78-6	Acetic acid, ethyl ester	5.12	430	BJ
02.	ACETONE DIMER	6.46	130	BJ
03.	UNKNOWN	7.84	11	BJ
04.	UNKNOWN	8.90	10	BJ

TOTAL ION CHROMATOGRAM



Data File: >G9057::U3 Quant Output File: ^G9057::AQ
Name:
Misc: CA2142C ,QC70092,L:M6, 920,2 BTL#23

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

Operator ID: PT1575
Quant Time: 891115 13:47
Injected at: 891115 11:53

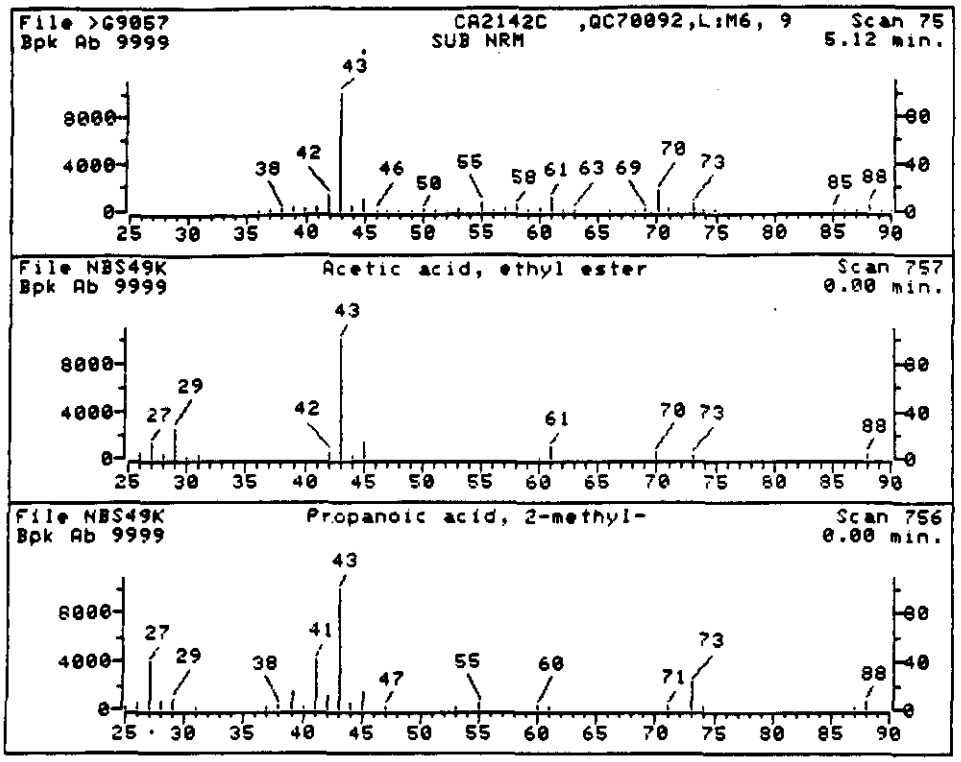
Operator ID: PT1575 Quant Rev: 7 Quant Time: 891115 13:47
Output File: ^G9057::AQ Injected at: 891115 11:53
Data File: >G9057::U3 Dilution Factor: 1.00000
Name:
Misc: CA2142C ,QC70092,L:M6, 920,2 BTL#23

ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.65	347	249428	40.00	UG/ML	91
3)	2-Fluorophenol	(SURR)	7.45	190	321962	69.81	UG/ML	80
5)	Phenol-D5	(SURR)	10.10	320	405830	65.60	UG/ML	92
12)	N-Nitrosodi-n-propylamine		12.35	431	34168	~~9.81~~	~~UG/ML~~	38
17)	*d8-Naphthalene		14.41	532	497082	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.35	431	224805	32.88	UG/ML	88
32)	*d10-Acenaphthene		19.87	801	184494	40.00	UG/ML	98
36)	2-Fluorobiphenyl	(SURR)	17.94	706	231036	29.71	UG/ML	98
50)	Fluorene		22.31	921	3141	~~.553~~	~~UG/ML~~	88
52)	2,4,6-Tribromophenol	(SURR)	22.29	920	46737	66.34	UG/ML	93
54)	*d10-Phenanthrene		24.30	1019	169279	40.00	UG/ML	97
65)	*d12-Chrysene		32.31	1413	79123	40.00	UG/ML	99
67)	Terphenyl-D14	(SURR)	29.32	1266	108470	49.43	UG/ML	94
73)	*d12-Perylene		36.32	1610	59841	40.00	UG/ML	83

* Compound is ISTD

CD 11-30-89

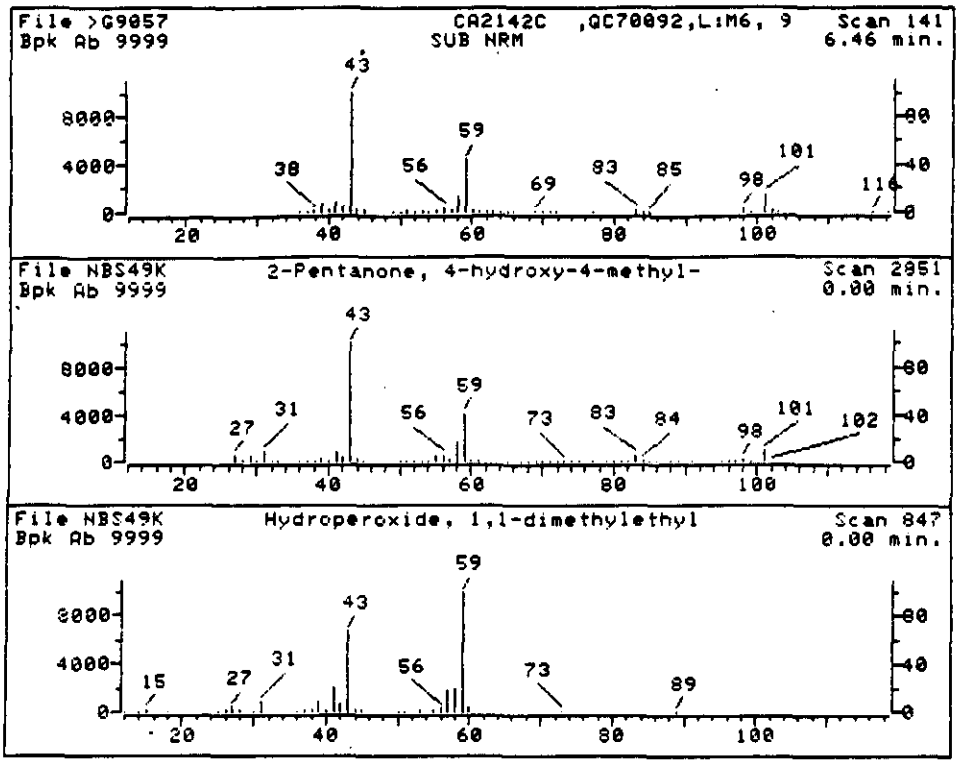


Data File: >G9057::U3
Name:
Misc Date: CA2142C ,QC70092,L:M6, 920,2 BTL#23
RT (min): 5.12
Scan: 75
Area: 4782498 Rank: 1
Semi-quantitative Conc (uncorrected): 199.81 UG/ML
Semi-quantitative Conc (corrected): 434.36 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.65 minutes

1. Acetic acid, ethyl ester 88 C4H8O2
2. Propanoic acid, 2-methyl- 88 C4H8O2

Sample file: >G9057 Spectrum #: 75
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	141786	2197	NBS49K	28	50	1	0	71	15	30	15
2.	25*	79312	4798	NBS49K	21	68	2	0	66	49	7	13

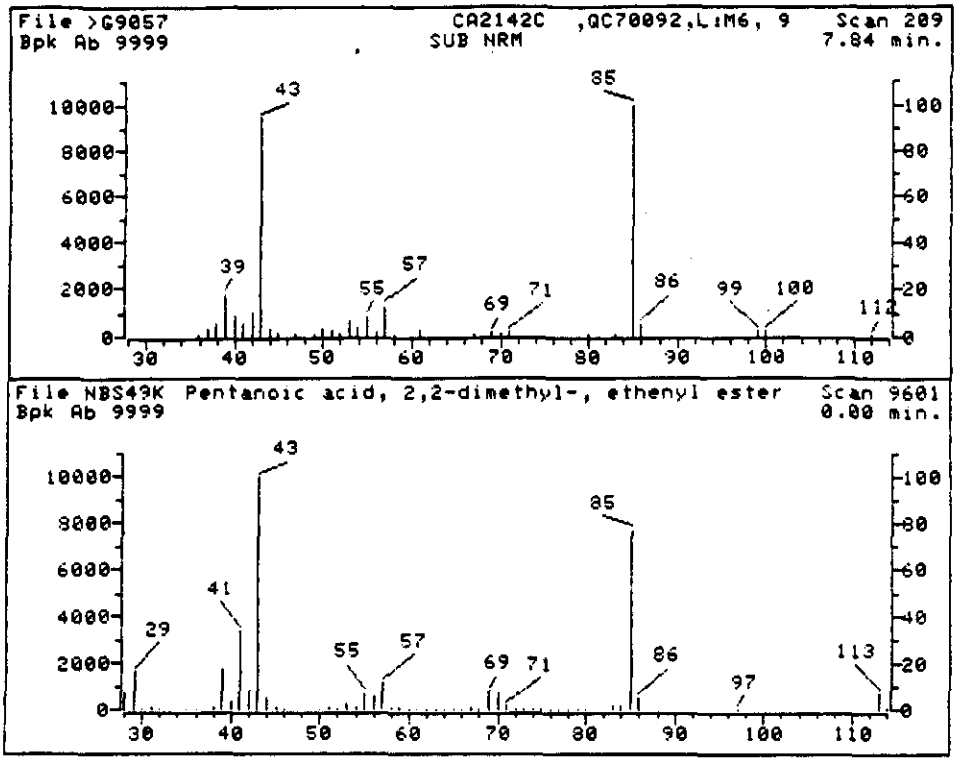


Data File: >G9057::U3
Name:
Misc Data: CA2142C ,QC70092,L:M6, 920,2 BTL#23
RT (min): 6.46
Scan: 141
Area: 1424504 Rank: 2
Semi-quantitative Conc (uncorrected): 59.51 UG/ML
Semi-quantitative Conc (corrected): 129.38 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.65 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2
2. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9057 Spectrum #: 141
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	123422	1790	NBS49K	43	40	2	0	73	4	55	14
2.	25	75912	1733	NBS49K	34	31	1	0	36	50	7	12

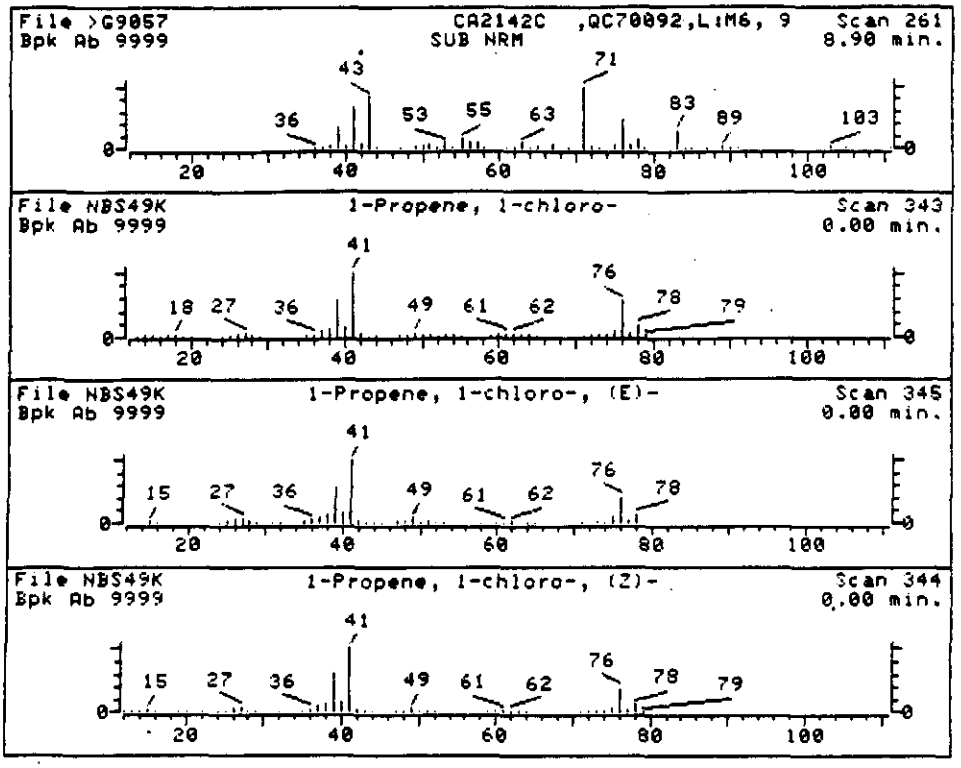


Data File: >G9057::U3
Name:
Misc Data: CA2142C ,QC70092,L:M6, 920,2 BTL#23
RT (min): 7.84
Scan: 209
Area: 117503 Rank: 9
Semi-quantitative Conc (uncorrected): 4.91 UG/ML
Semi-quantitative Conc (corrected): 10.67 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.65 minutes

1. Pentanoic acid, 2,2-dimethyl-, ethenyl ester 156 C9H16O2

Sample file: >G9057 Spectrum #: 209
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	44970050	6671	NBS49K	36	46	2	0	94	9	42	12



Data File: >G9057::U3
Name:
Misc Data: CA2142C ,QC70092,L:M6, 920,2 BTL#23
RT (min): 8.90
Scan: 261
Area: 108730 Rank: 10
Semi-quantitative Conc (uncorrected): 4.54 UG/ML
Semi-quantitative Conc (corrected): 9.88 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.65 minutes

1.	1-Propene, 1-chloro-	76 C3H5Cl
2.	1-Propene, 1-chloro-, (E)-	76 C3H5Cl
3.	1-Propene, 1-chloro-, (Z)-	76 C3H5Cl

Sample file: >G9057 Spectrum #: 261
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	48*	590216	5091	NBS49K	46	47	2	1	59	23	17	19
2.	30*	16136859	5093	NBS49K	40	58	2	1	59	34	12	13
3.	26*	16136848	5092	NBS49K	39	58	2	1	59	37	10	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2143C

Sample wt/vol: 850.0 (g/mL) ML Lab File ID: >G9058

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic acid	59	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	59	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	59	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2143C

Sample wt/vol: 850.0 (g/mL) ML Lab File ID: >G9058

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	59	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	59	U
100-02-7	4-Nitrophenol	59	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	59	U
534-52-1	4,6-Dinitro-2-methylphenol	59	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	59	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	U
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenz(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2143C

Sample wt/vol: 850.0 (g/mL) ML Lab File ID: >G9058

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/12/89

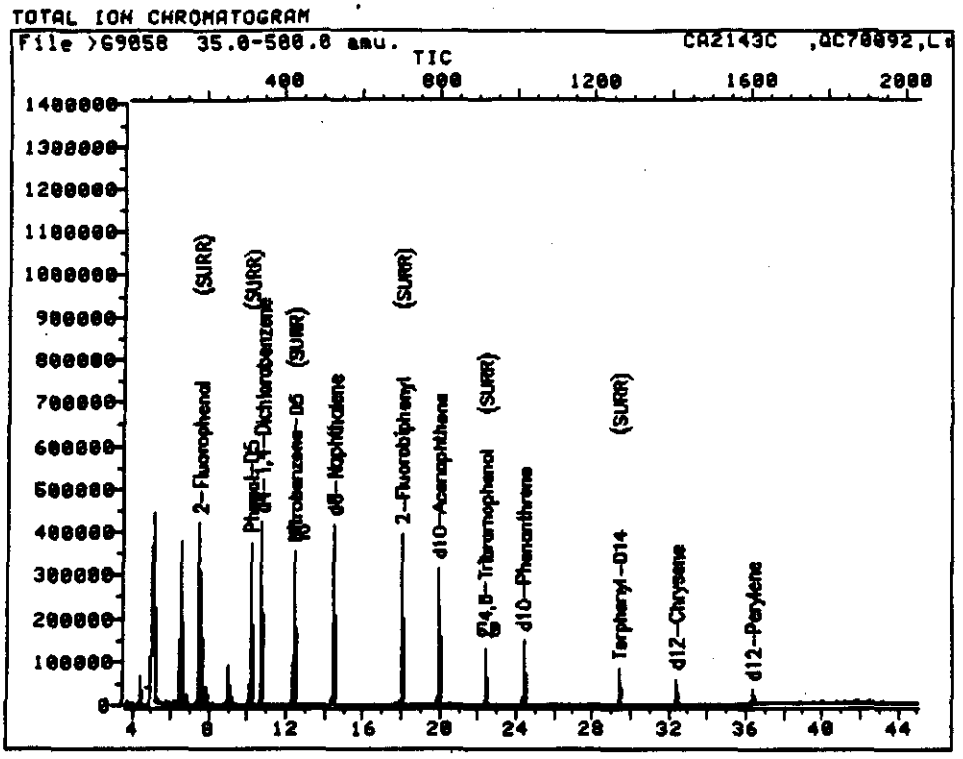
Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 141-78-6	Acetic acid, ethyl ester	5.10	460	BJ
02.	ACETONE DIMER	6.46	140	BJ
03.	UNKNOWN	8.92	18	BJ
04. 108-88-3	Benzene, methyl-	4.32	13	J
05.	UNKNOWN	7.86	11	BJ



Data File: >G9058::U3 Quant Output File: ^G9058::AQ
Name:
Misc: CA2143C ,QC70092,L:M6, 850,2 BTL#24

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

Operator ID: PT1575
Quant Time: 891115 14:02
Injected at: 891115 12:57

QUANT REPORT Page 1

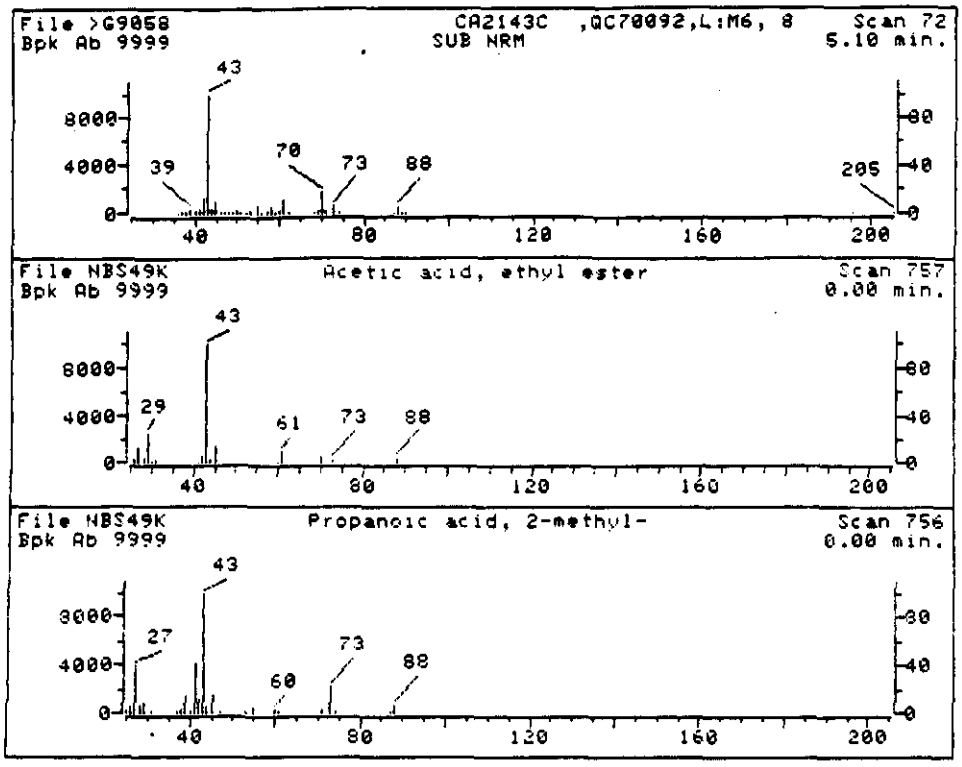
Operator ID: PT1575 Quant Rev: 7 Quant Time: 891115 14:02
Output File: ^G9058::AQ Injected at: 891115 12:57
Data File: >G9058::U3 Dilution Factor: 1.00000
Name:
Misc: CA2143C ,QC70092,L:M6, 850,2 BTL#24

ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.67	346	244556	40.00	UG/ML	90
3)	2-Fluorophenol	(SURR)	7.45	188	292667	64.72	UG/ML	79
5)	Phenol-D5	(SURR)	10.12	319	373404	61.56	UG/ML	91
12)	N-Nitrosodi-n-propylamine		12.37	430	44680	~~13.08~~	~~UG/ML~~	38
17)	*d8-Naphthalene		14.43	531	475863	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.37	430	295495	45.14	UG/ML	96
32)	*d10-Acenaphthene		19.90	799	169610	40.00	UG/ML	99
36)	2-Fluorobiphenyl	(SURR)	17.97	704	315231	44.10	UG/ML	97
50)	Fluorene		22.34	919	2349	~~.458~~	~~UG/ML~~	84
52)	2,4,6-Tribromophenol	(SURR)	22.34	919	35533	54.86	UG/ML	96
54)	*d10-Phenanthrene		24.36	1018	143921	40.00	UG/ML	98
65)	*d12-Chrysene		32.34	1411	54998	40.00	UG/ML	99
67)	Terphenyl-D14	(SURR)	29.38	1265	74043	48.54	UG/ML	94
73)	*d12-Perylene		36.35	1608	32865	40.00	UG/ML	92

* Compound is ISTD

CA 11-30-89

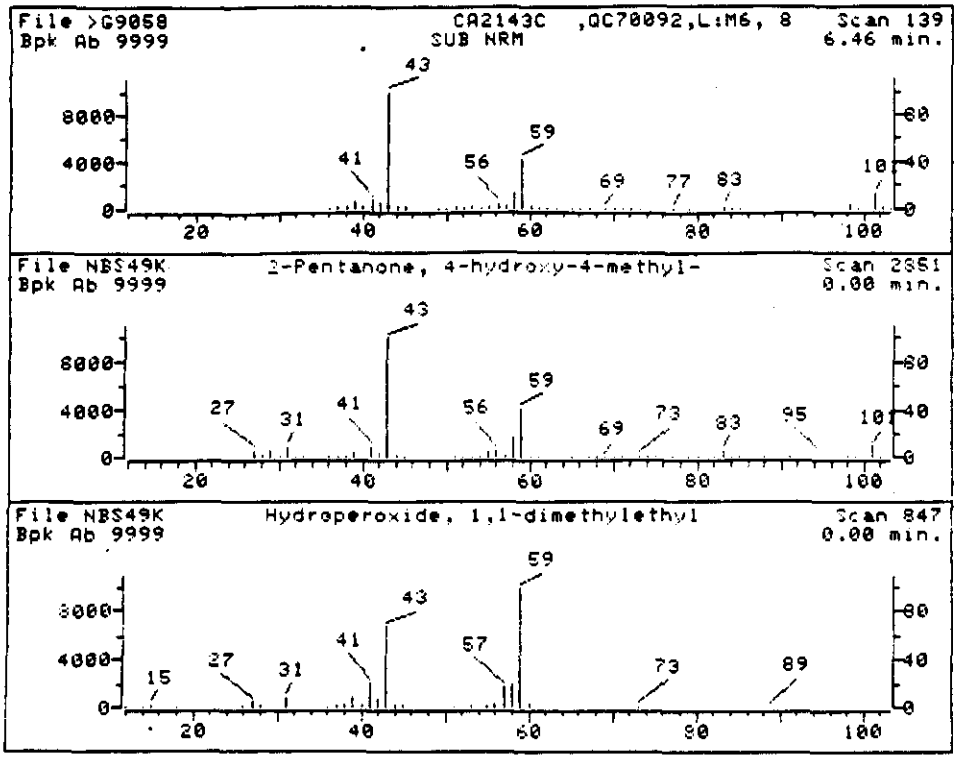


Data File: >G9058::U3
Name:
Misc Data: CA2143C ,QC70092,L:M6, 850,2 BTL#24
RT (min): 5.10
Scan: 72
Area: 4578271 Rank: 1
Semi-quantitative Conc (uncorrected): 196.47 UG/ML
Semi-quantitative Conc (corrected): 462.28 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.67 minutes

1. Acetic acic, ethyl ester 88 C4H8O2
2. Propanoic acid, 2-methyl- 88 C4H8O2

Sample file: >G9058 Spectrum #: 72
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	k	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	60*	141786	2197	NBS49K	28	50	1	0	71	15	30	15
2.	25*	79312	4798	NBS49k	21	68	2	0	66	49	7	13

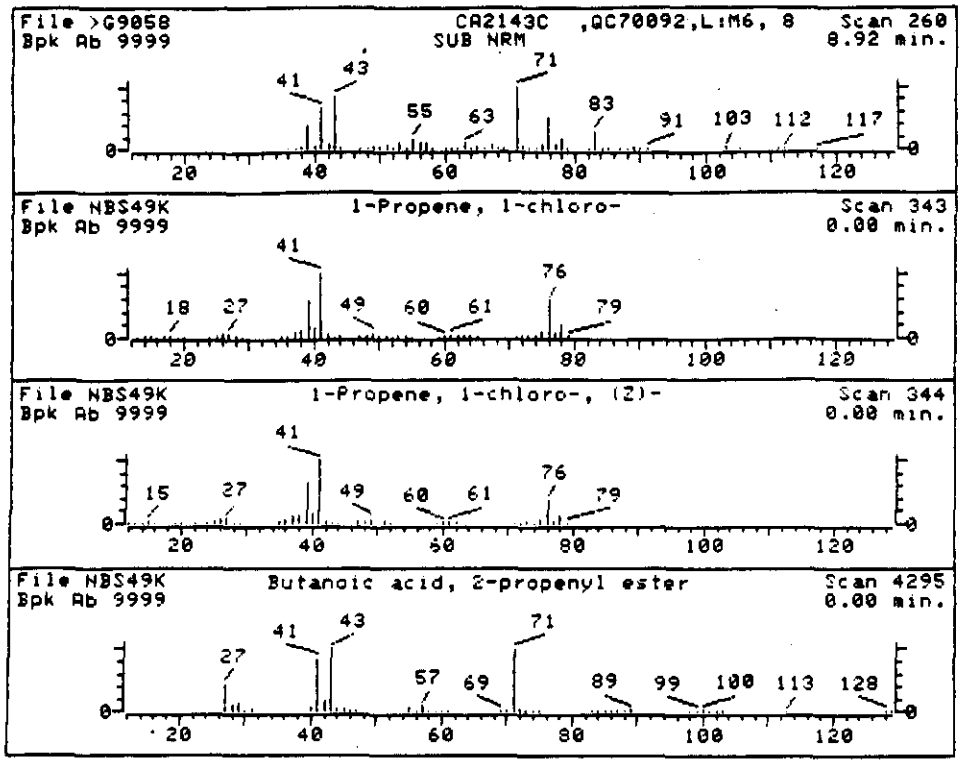


Data File: >G9058::U3
Name:
Misc Data: CA2143C ,QC70092,L:M6, 850,2 BTL#24
RT (min): 6.46
Scan: 139
Area: 1415228 Rank: 2
Semi-quantitative Conc (uncorrected): 60.73 UG/ML
Semi-quantitative Conc (corrected): 142.90 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.67 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2
2. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: G9058 Spectrum #: 139
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	123422	1790	NBS49K	43	40	2	0	71	4	55	14
2.	20	75912	1733	NBS49K	35	30	1	0	33	51	5	13

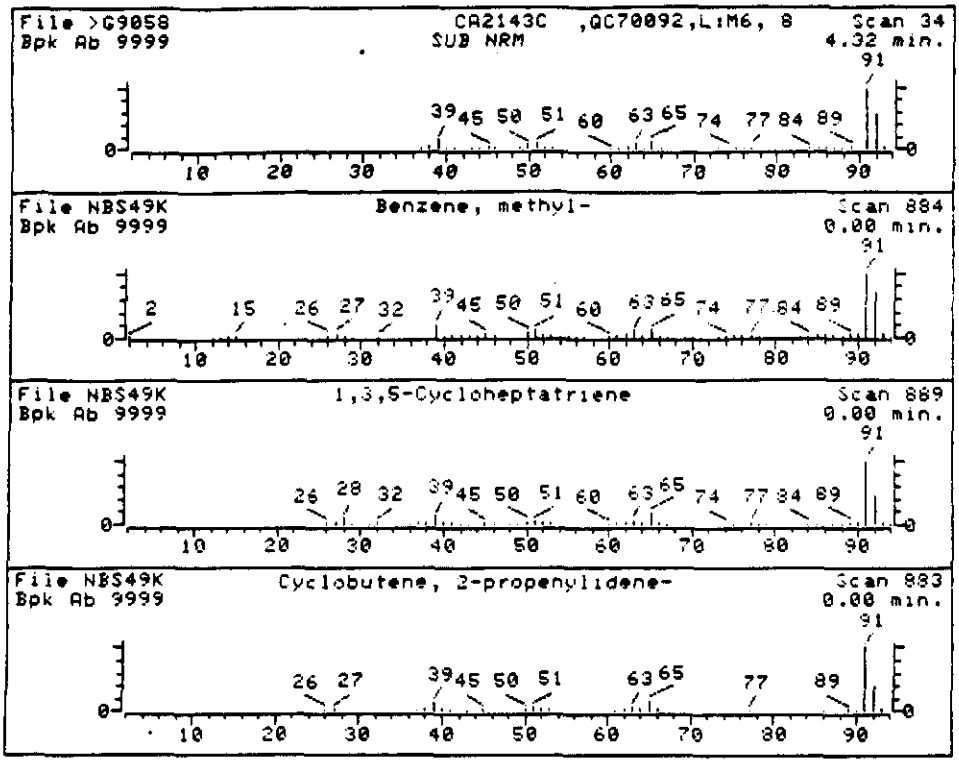


Data File: >G9058::U3
Name:
Misc Data: CA2143C ,QC70092,L:M6, 850,2 BTL#24
RT (min): 8.92
Scan: 260
Area: 180374 Rank: 9
Semi-quantitative Conc (uncorrected): 7.74 UG/ML
Semi-quantitative Conc (corrected): 18.21 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.67 minutes

1. 1-Propene, 1-chloro- 76 C3H5Cl
2. 1-Propene, 1-chloro-, (Z)- 76 C3H5Cl
3. Butanoic acid, 2-propenyl ester 128 C7H12O2

Sample File: >G9058 Spectrum #: 260
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	45*	590216	5091	NBS49K	52	41	2	2	53	31	16	28
2.	34*	16136848	5092	NBS49K	45	52	2	1	59	34	12	17
3.	25	2051787	4299	NBS49K	37	49	2	0	79	47	7	12

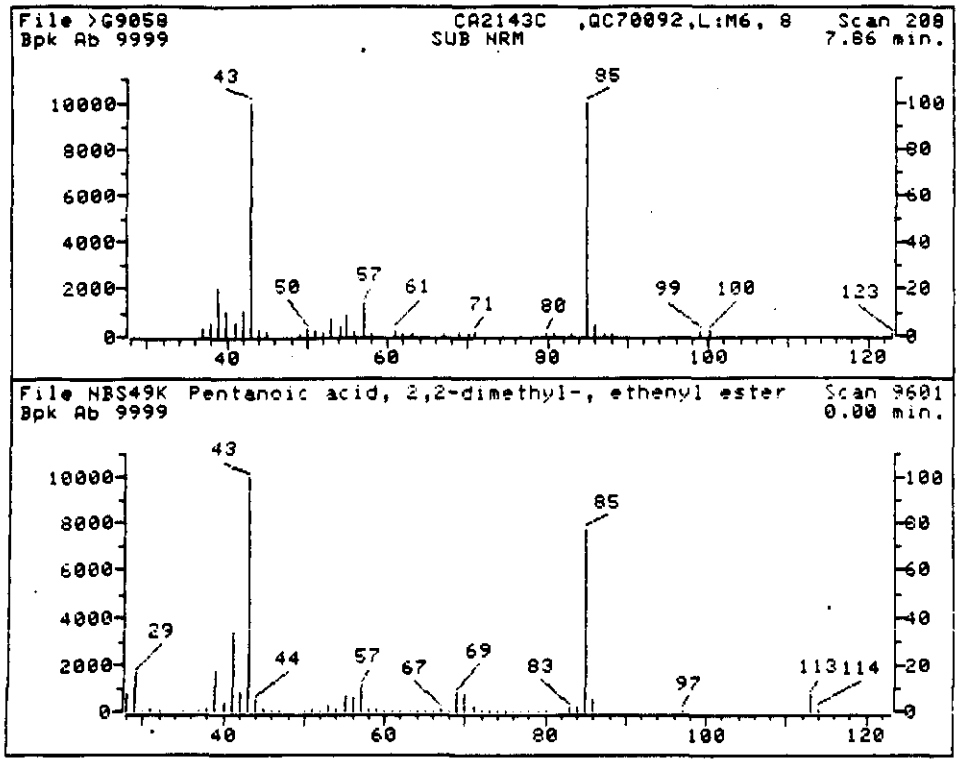


Data File: >G9058::U3
Name:
Misc Data: CA2143C ,QC70092,L:M6, 850,2 BTL#24
RT (min): 4.32
Scan: 34
Area: 126968 Rank: 10
Semi-quantitative Conc (uncorrected): 5.45 UG/ML
Semi-quantitative Conc (corrected): 12.82 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.67 minutes

1. Benzene, methyl- 92 C7H8
2. 1,3,5-Cycloheptatriene 92 C7H8
3. Cyclobutene, 2-propenylidene- 92 C7H8

Sample file: >G9058 Spectrum #: 34
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79*	108883	8475	NBS49K	73	17	1	0	58	28	43	80
2.	76*	544252	8479	NBS49K	55	30	1	0	74	12	40	52
3.	52*	52097855	8474	NBS49K	40	39	2	0	92	20	20	19



Data File: >G9058::U3
Name:
Misc Data: CA2143C ,QC70092,L:M6, 850,2 BTL#24
RT (min): 7.86
Scan: 208
Area: 113855 Rank: 11
Semi-quantitative Conc (uncorrected): 4.89 UG/ML
Semi-quantitative Conc (corrected): 11.50 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.67 minutes

1. Pentanoic acid, 2,2-dimethyl-, ethenyl ester 156 C9H16O2

Sample file: >G9058 Spectrum #: 208
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	41	44970050	6671	NBS49K	36	46	2	0	100	24	17	12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2149C

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: >G9059

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	52	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	52	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2149C

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: >G9059

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	52	U
100-02-7	4-Nitrophenol	52	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	52	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2149C

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: >G9059

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

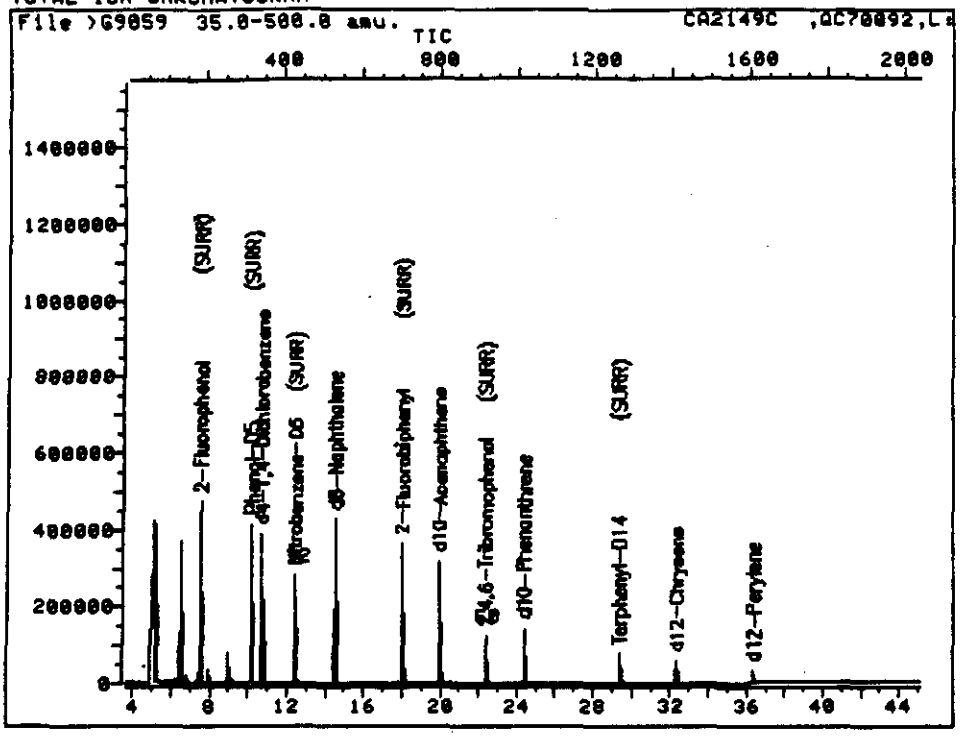
GPC Cleanup: (Y/N) N pH:____ Dilution Factor: _____

Number TICs found: _____

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 141-78-6	Acetic acid, ethyl ester	5.07	390	BJ
02.	ACETONE DIMER	6.46	120	BJ
03.	UNKNOWN	8.92	14	BJ
04.	UNKNOWN	7.84	11	BJ

TOTAL ION CHROMATOGRAM



Data File: >G9059::U3 Quant Output File: ^G9059::AQ
Name:
Misc: CA2149C ,QC70092,L:M6, 960,2 BTL#25

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

Operator ID: PT1575
Quant Time: 891115 14:45
Injected at: 891115 13:53

QUANT REPORT Page 1

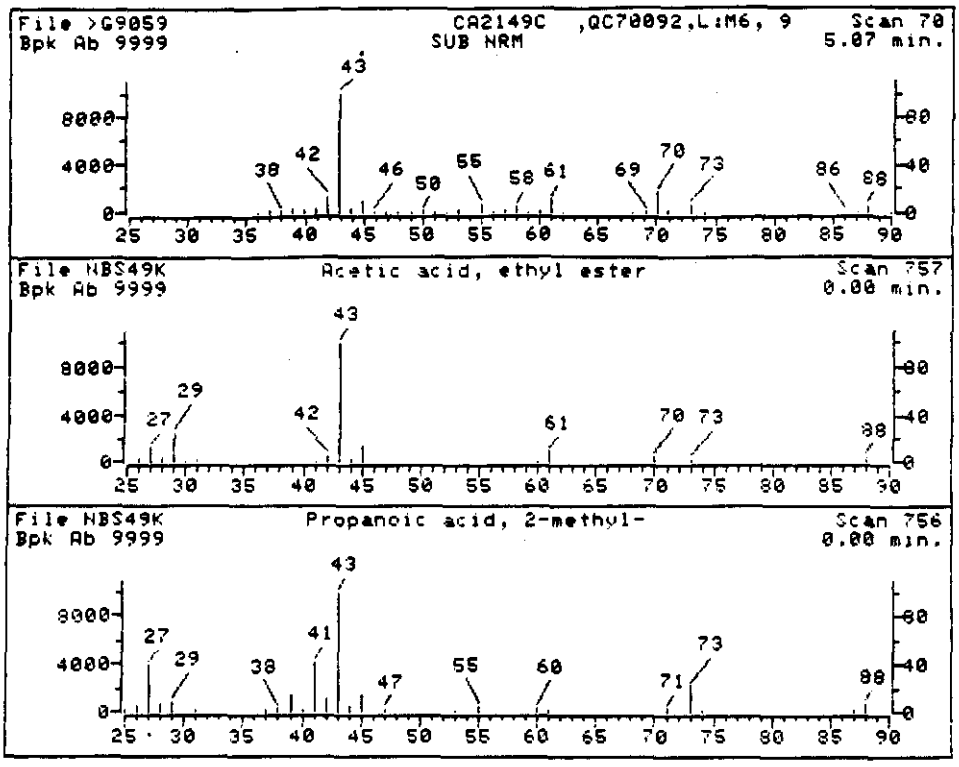
Operator ID: PT1575 Quant Rev: 7 Quant Time: 891115 14:45
Output File: ^G9059::AQ Injected at: 891115 13:53
Data File: >G9059::U3 Dilution Factor: 1.00000
Name:
Misc: CA2149C ,QC70092,L:M6, 960,2 BTL#25

ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.66	345	237764	40.00	UG/ML	88
3)	2-Fluorophenol	(SURR)	7.45	187	306233	69.66	UG/ML	80
5)	Phenol-D5	(SURR)	10.14	319	421470	71.47	UG/ML	95
12)	N-Nitrosodi-n-propylamine		12.39	430	40980	~~12.34~~	~~UG/ML~~	37
17)	*d8-Naphthalene		14.45	531	487364	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.39	430	270028	40.28	UG/ML	85
32)	*d10-Acenaphthene		19.91	800	173464	40.00	UG/ML	99
36)	2-Fluorobiphenyl	(SURR)	17.98	705	273120	37.36	UG/ML	98
50)	Fluorene		22.33	919	2371	~~.444~~	~~UG/ML~~	83
52)	2,4,6-Tribromophenol	(SURR)	22.33	919	34689	52.37	UG/ML	96
54)	*d10-Phenanthrene		24.32	1017	137686	40.00	UG/ML	98
65)	*d12-Chrysene		32.33	1411	55576	40.00	UG/ML	99
67)	Terphenyl-D14	(SURR)	29.34	1264	82036	53.22	UG/ML	94
73)	*d12-Perylene		36.34	1608	35119	40.00	UG/ML	93

* Compound is ISTD

CA 11-30-89

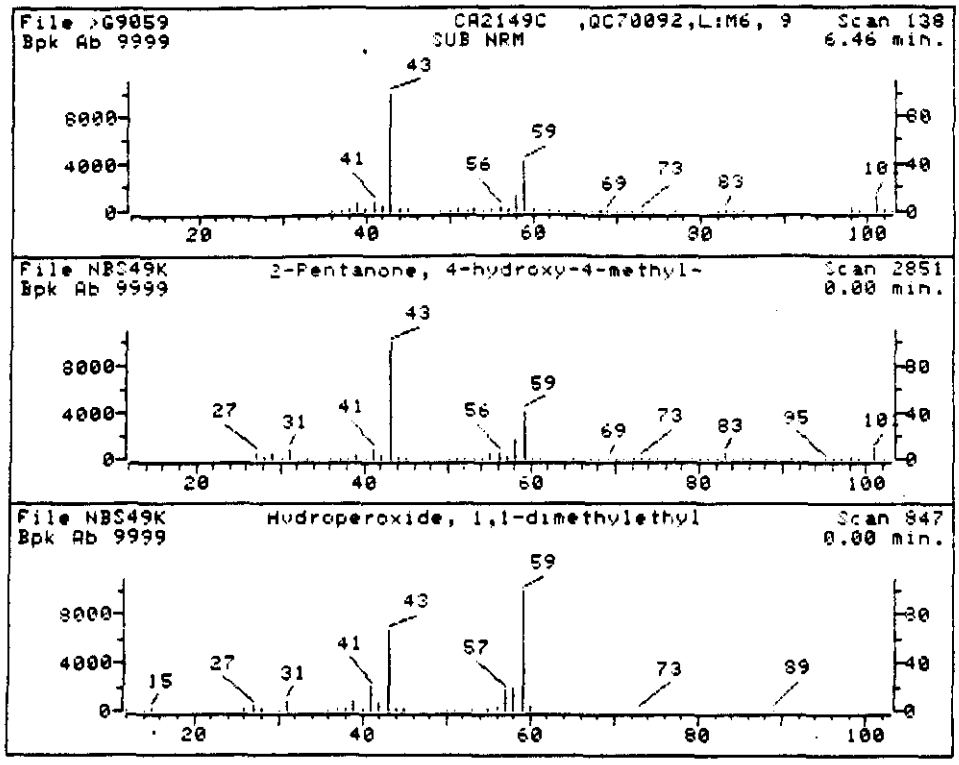


Data File: >G9059::U3
Name:
Misc Data: CA2149C ,QC70092,L:M6, 960,2 BTL#25
RT (min): 5.07
Scan: 70
Area: 4304046 Rank: 1
Semi-quantitative Conc (uncorrected): 187.73 UG/ML
Semi-quantitative Conc (corrected): 391.11 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.66 minutes

1. Acetic acid, ethyl ester 88 C4H8O2
2. Propanoic acid, 2-methyl- 88 C4H8O2

Sample File: >G9059 Spectrum #: 70
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_I
1.	60*	141786	2197	NBS49K	28	50	1	0	72	15	30	15
2.	52*	79312	4798	NBS49K	28	61	2	0	67	18	20	14

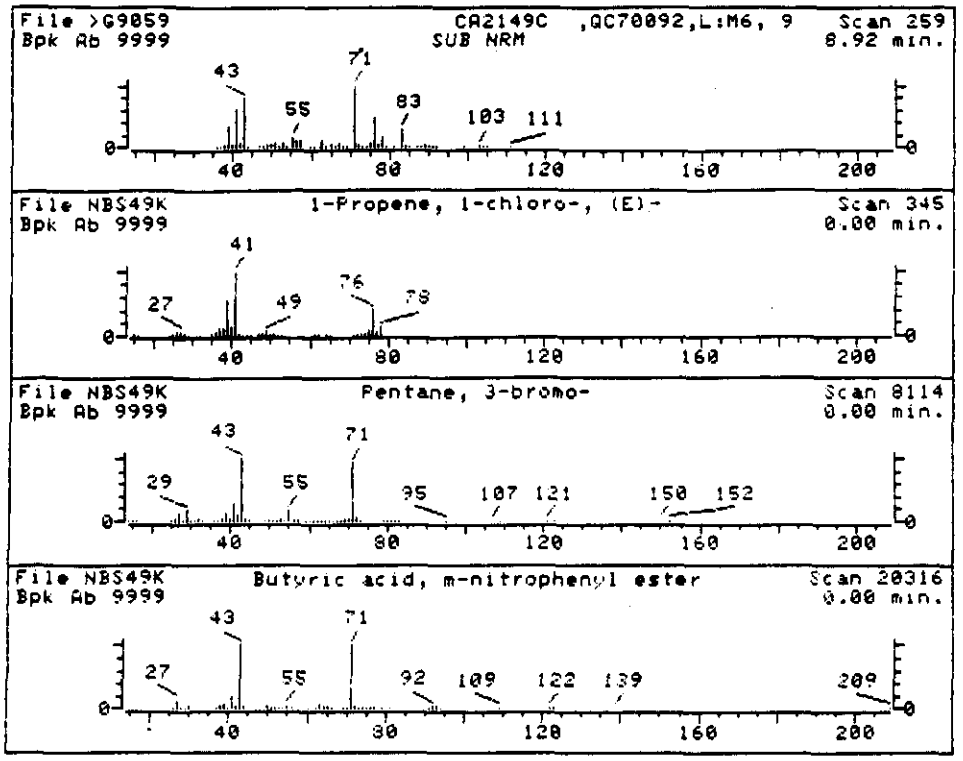


Data File: >G9059::U3
Name:
Misc Data: CA2149C ,QC70092,L:M6, 960,2 BTL#25
RT (min): 6.46
Scan: 138
Area: 1320624 Rank: 2
Semi-quantitative Conc (uncorrected): 57.60 UG/ML
Semi-quantitative Conc (corrected): 120.01 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.66 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2
2. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9059 Spectrum #: 138
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	123422	1790	NBS49K	43	40	2	0	70	4	55	14
2.	25	75912	1733	NBS49K	35	30	1	0	34	50	7	13

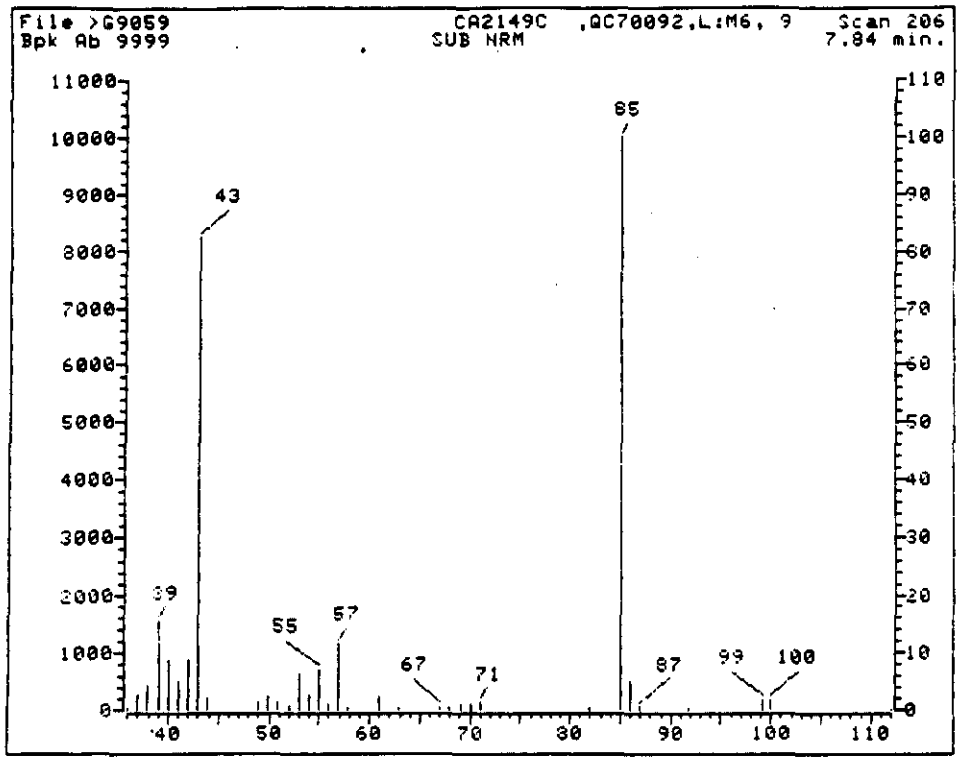


Data File: >G9059::U3
Name:
Misc Data: CA2149C .QC70092,L:M6, 960,2 BTL#25
RT (min): 8.92
Scan: 259
Area: 151832 Rank: 9
Semi-quantitative Conc (uncorrected): 6.62 UG/ML
Semi-quantitative Conc (corrected): 13.80 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.66 minutes

1.	1-Propene, 1-chloro-, (E)-	76 C3H5Cl
2.	Pentane, 3-bromo-	150 C5H11Br
3.	Butyric acid, m-nitrophenyl ester	209 C10H11NO4

Sample file: >G9059 Spectrum #: 259
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	16136859	5093	NBS49K	40	58	2	1	56	31	12	13
2.	25	1809105	4342	NBS49K	35	41	0	0	73	50	7	18
3.	25	14617971	4419	NBS49K	43	50	1	0	80	47	7	14



Data File: >G9059::U3
Name:
Misc Data: CA2149C ,QC70092,L:M6, 960,2 BTL#25
PT (min): 7.84
Scan: 206
Area: 116981 Rank: 10
Semi-quantitative Conc (uncorrected): 5.10 UG/ML
Semi-quantitative Conc (corrected): 10.63 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.66 minutes

No PBM hits for this scan.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2150C

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: >G9106

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 11/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/1?/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	42	
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	2	J
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	96	
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	200	
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2150C

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: >G9106

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 11/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	56	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	4	J
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2150C

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: >G9106

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec._____ dec._____ Date Extracted: 11/06/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/89

GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

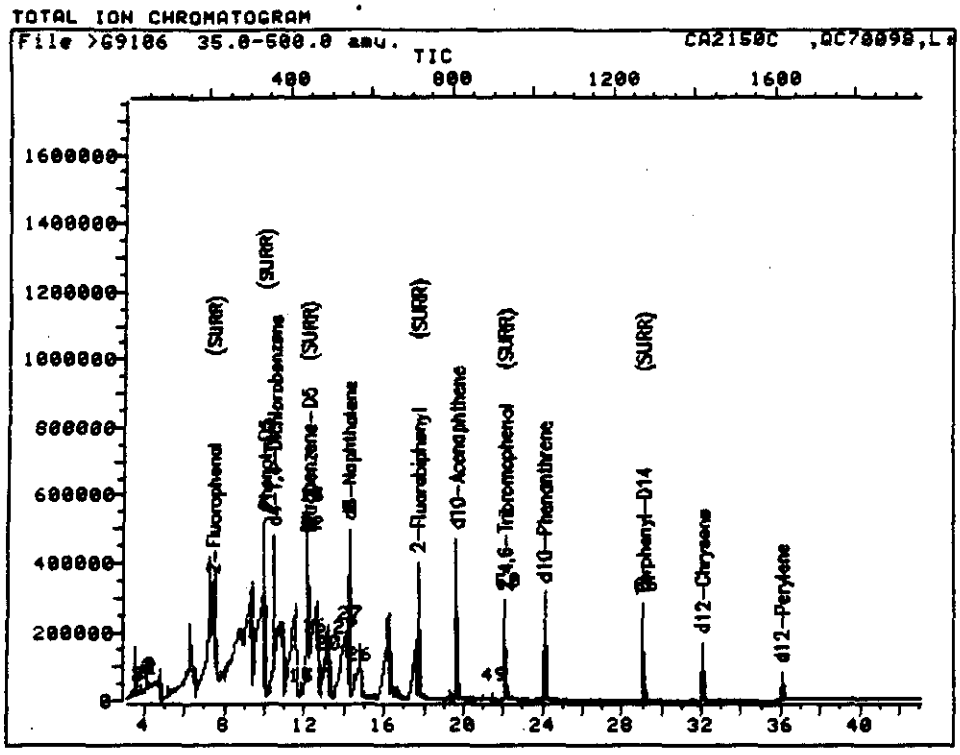
Number TICs found: 21

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q	
01.		UNKNOWN	9.97	410	J	
02.	103-82-2	Benzeneacetic acid	16.25	260	J	
03.	98-89-5	Cyclohexanecarboxylic acid	14.11	230	J	
04.	142-62-1	Hexanoic acid	11.40	120	J	
05.	108-93-0	Cyclohexanol	7.51	87	J	
06.	501-52-0	Benzenepropanoic acid	17.57	130	J	
07.	111-14-8	Heptanoic acid	13.15	110	J	
~~08.~~	~~108-93-0~~	~~Cyclohexanol~~	~~7.43~~	~~48~~	~~J~~	
09.08	109-52-4	Pentanoic acid	11.58	32	J	OT 11/21/89
~~10.~~09		UNKNOWN	10.95	24	J	
~~11.~~	~~111-14-8~~	~~Heptanoic acid~~	~~12.95~~	~~32~~	~~J~~	
12.10	503-74-2	Butanoic acid, 3-methyl-	8.18	18	J	
13.11		UNKNOWN	6.27	18	JB	
14.12	124-07-2	Octanoic acid	14.84	26	J	
15.13		UNKNOWN	14.78	22	J	
16.14	127-18-4	Ethene, tetrachloro-	5.19	13	J	
17.15	98-89-5	Cyclohexanecarboxylic acid	13.56	18	J	
18.16	108-10-1	2-Pentanone, 4-methyl-	3.46	12	J	
19.17		UNKNOWN	4.76	10	J	
20.18		UNKNOWN	10.60	8	J	
21.19	112-05-0	Nonanoic acid	16.37	11	J	
~~22.~~		~~UNKNOWN~~	~~10.87~~	~~8~~	~~J~~	
~~23.~~	~~108-88-3~~	~~Benzene, methyl-~~	~~4.85~~	~~7~~	~~J~~	OT 11/21/89
20		Unknown	10.87	8	J	
21	108-88-3	Benzene, methyl -	4.85	7	J	

753

TOTAL ION CHROMATOGRAM



Data File: >G9106::U3 Quant Output File: ^G9106::AQ
Name:
Misc: CA2150C ,QC70098,L:M6, 900,2 BTL#17

Id File: IG0132::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891120 10:11

Operator ID: CA3875
Quant Time: 891120 10:46
Injected at: 891117 23:54

Operator ID: CA3875 Quant Rev: 7 Quant Time: 891120 10:46
Output File: ^G9106::AQ Injected at: 891117 23:54
Data File: >G9106::U3 Dilution Factor: 1.00000
Name:
Misc: CA2150C ,QC70098,L:M6, 900,2 BTL#17

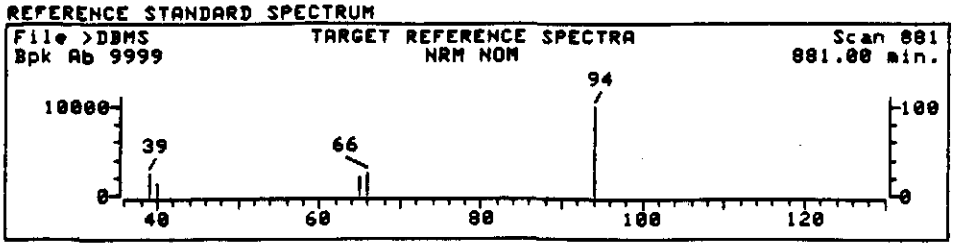
ID File: IG0132::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891120 10:11

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.44	360	242265	40.00	UG/ML	91
2)	N-Nitrosodimethylamine		3.60	24	3140	.981	UG/ML	100
2)	N-Nitrosodimethylamine		3.89	38	3202	1.00	UG/ML	100
2)	N-Nitrosodimethylamine		4.03	45	2987	.933	UG/ML	100
2)	N-Nitrosodimethylamine		4.17	52	3744	1.17	UG/ML	100
2)	N-Nitrosodimethylamine		4.29	58	13567	4.24	UG/ML	100
3)	2-Fluorophenol	(SURR)	7.43	212	[illegible]	4.51	UG/ML	90
5)	Phenol-D5	(SURR)	9.97	337	[illegible]	33.09	UG/ML	93
6)	Phenol		9.99	338	85339	19.09	UG/ML	100
12)	N-Nitrosodi-n-propylamine		12.15	444	41667	11.04	UG/ML	38
14)	2-Methylphenol		11.64	419	2601	.723	UG/ML	72
14)	2-Methylphenol		12.13	443	207064	57.57	UG/ML	90
15)	4-Methylphenol		11.64	419	2601	.541	UG/ML	60
15)	4-Methylphenol		12.13	443	207064	43.04	UG/ML	99
16)	bis(2-Chloroisopropyl)ether		12.31	452	2712	1.70	UG/ML	100
17)	*d8-Naphthalene		14.21	545	570368	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.15	444	268037	37.83	UG/ML	94
20)	Isophorone		13.03	487	8993	.760	UG/ML	93
26)	Benzoic acid		14.62	565	[illegible]	51.37	UG/ML	90
27)	Naphthalene		13.94	532	72400	5.25	UG/ML	85
27)	Naphthalene		14.11	540	40595	2.94	UG/ML	79
32)	*d10-Acenaphthene		19.65	812	256942	40.00	UG/ML	99
36)	2-Fluorobiphenyl	(SURR)	17.72	717	329065	38.11	UG/ML	99
49)	Diethyl phthalate		21.42	899	16519	1.86	UG/ML	97
50)	Fluorene		22.09	932	5650	.701	UG/ML	83
52)	2,4,6-Tribromophenol	(SURR)	22.09	932	87655	66.96	UG/ML	94
54)	*d10-Phenanthrene		24.07	1029	314267	40.00	UG/ML	98
65)	*d12-Chrysene		32.04	1421	167360	40.00	UG/ML	97
66)	Benzidine		29.09	1276	2911	51.74	UG/ML	100
67)	Terphenyl-D14	(SURR)	29.09	1276	260130	53.82	UG/ML	92
73)	*d12-Perylene		36.03	1617	94573	40.00	UG/ML	87

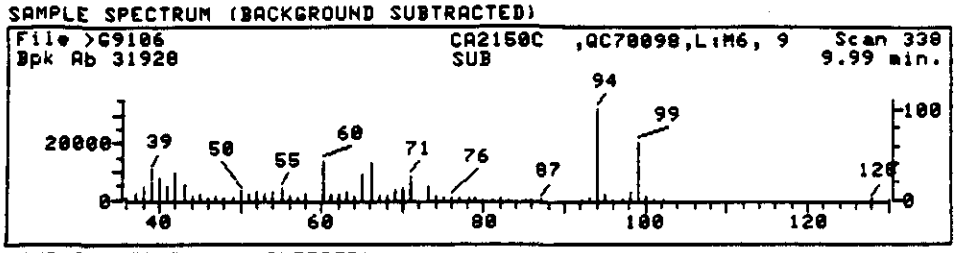
* Compound is ISTD

QT 11/22/89

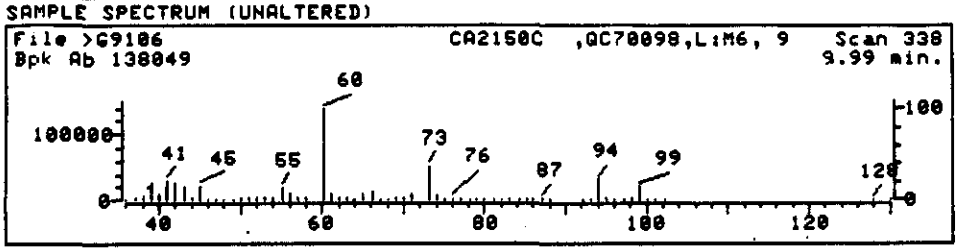
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



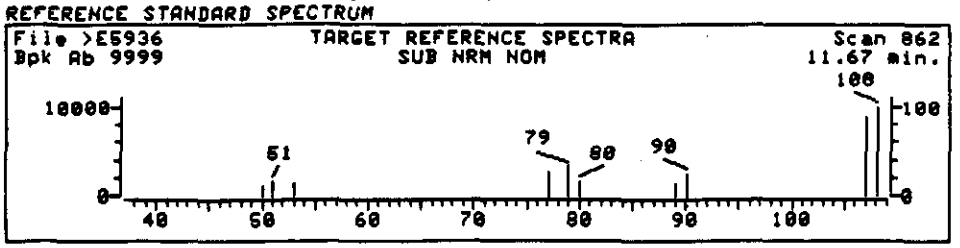
SAMPLE SPECTRUM (UNALTERED)



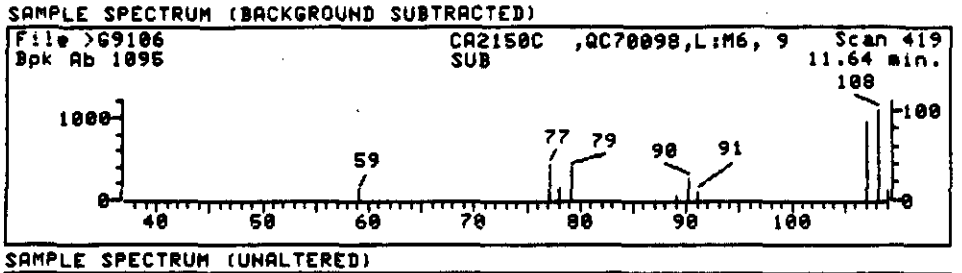
Data File: >G9106::U3 Quant Output File: ^G9106::AQ
Name:
Misc: CA2150C ,QC70098,L:M6, 900,2 BTL#17
Quant Time: 891120 10:46 Quant ID File: IG0132::PF
Injected at: 891117 23:54 Last Calibration: 891120 10:11

Compound No: 6
Compound Name: Phenol
Scan Number: 338
Retention Time: 9.99 min.
Quant Ion: 94.0
Area: 85339
Concentration: 19.09 UG/ML
q-value: 100

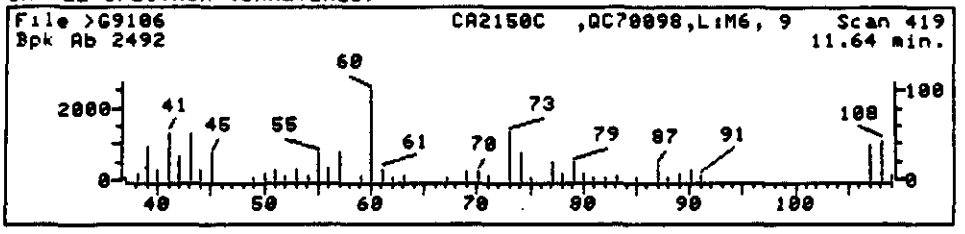
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



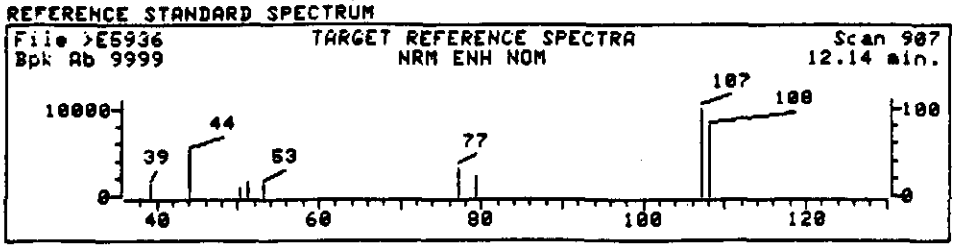
SAMPLE SPECTRUM (UNALTERED)



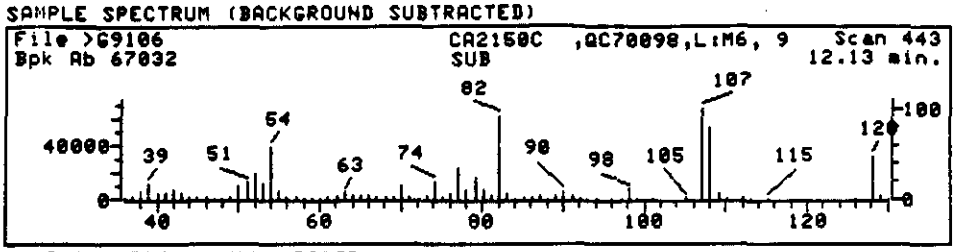
Data File: >G9106::U3 Quant Output File: ^G9106::AQ
Name:
Misc: CA2150C ,QC70098,L:M6, 900,2 BTL#17
Quant Time: 891120 10:46 Quant ID File: 1G0132::PF
Injected at: 891117 23:54 Last Calibration: 891120 10:11

Compound No: 14
Compound Name: 2-Methylphenol
Scan Number: 419
Retention Time: 11.64 min.
Quant Ion: 107.0
Area: 2601
Concentration: .723 UG/ML
q-value: 72

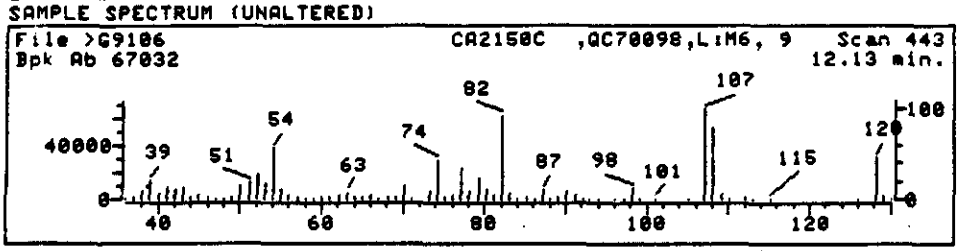
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



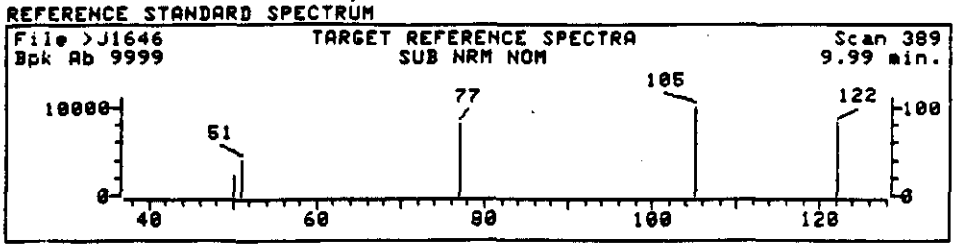
SAMPLE SPECTRUM (UNALTERED)



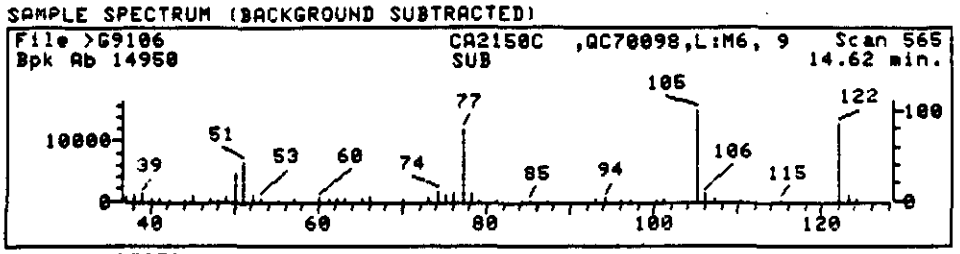
Data File: >G9106::U3 Quant Output File: ^G9106::AQ
Name:
Misc: CA2150C ,QC70098,L:M6, 900,2 BTL#17
Quant Time: 891120 10:46 Quant ID File: IG0132::PF
Injected at: 891117 23:54 Last Calibration: 891120 10:11

Compound No: 15
Compound Name: 4-Methylphenol
Scan Number: 443
Retention Time: 12.13 min.
Quant Ion: 107.0
Area: 207064
Concentration: 43.04 UG/ML
q-value: 99

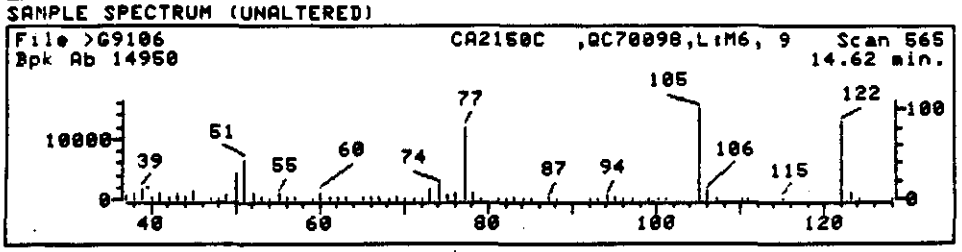
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

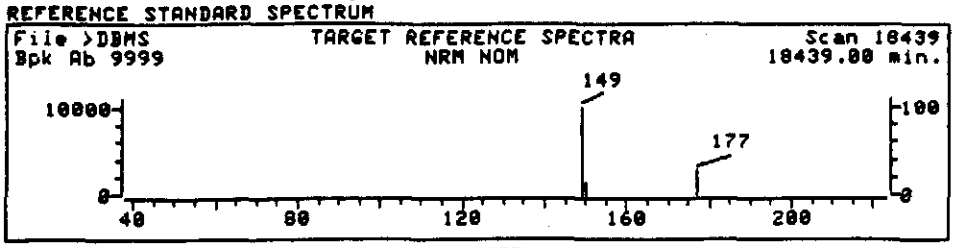


Data File: >G9106::U3 Quant Output File: ^G9106::AQ
Name:
Misc: CA2150C ,QC70098,L:M6, 900,2 BTL#17
Quant Time: 891120 10:46 Quant ID File: 1G0132::PF
Injected at: 891117 23:54 Last Calibration: 891120 10:11

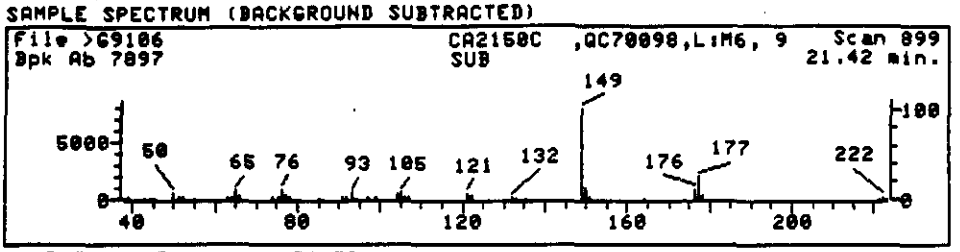
Compound No: 26
Compound Name: Benzoic acid
Scan Number: 565
Retention Time: 14.62 min.
Quant Ion: 122.0
Area: ~~140832~~ 249102
Concentration: ~~51.57~~ UG/ML
q-value: 94 90.86

BTN 12/22/89

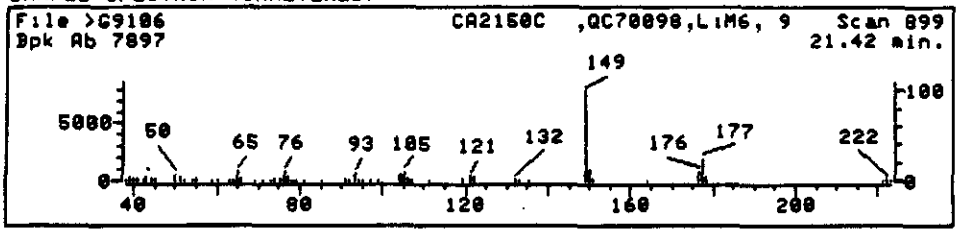
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

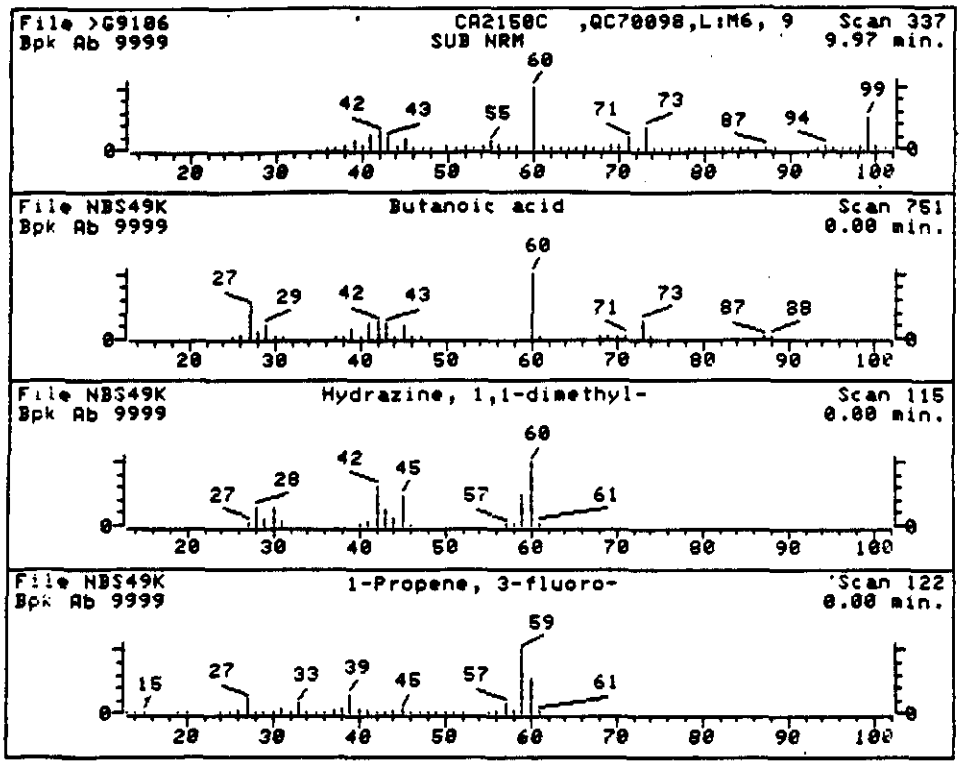


SAMPLE SPECTRUM (UNALTERED)



Data File: >G9106::U3 Quant Output File: ^G9106::AQ
Name:
Misc: CA2150C ,QC70098,L:M6, 900,2 BTL#17
Quant Time: 891120 10:46 Quant ID File: IG0132::PF
Injected at: 891117 23:54 Last Calibration: 891120 10:11

Compound No: 49
Compound Name: Diethyl phthalate
Scan Number: 899
Retention Time: 21.42 min.
Quant Ion: 149.0
Area: 16519
Concentration: 1.86 UG/ML
q-value: 97

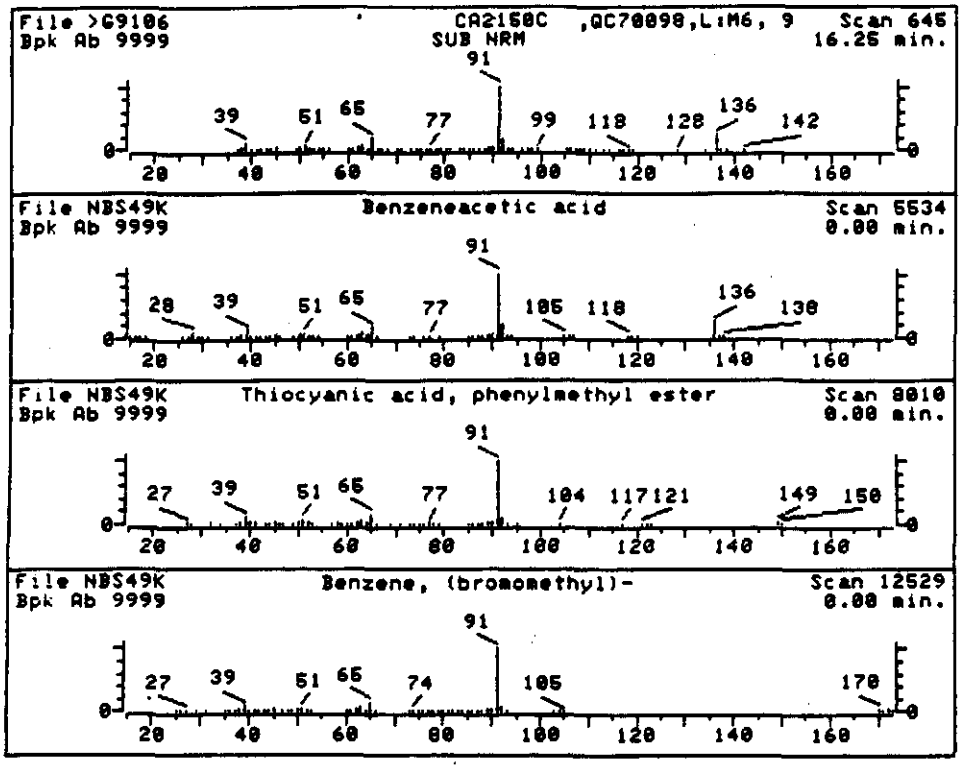


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 9.97
Scan: 337
Area: 8516222 Rank: 1
Semi-quantitative Conc (uncorrected): 185.77 UG/ML
Semi-quantitative Conc (corrected): 412.82 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1.	Butanoic acid	88	C4H8O2
2.	Hydrazine, 1,1-dimethyl-	60	C2H8N2
3.	1-Propene, 3-fluoro-	60	C3H5F

Sample file: >G9106 Spectrum #: 337
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30	107926	2009	NBS49K	38	54	1	0	82	35	12	13
2.	25*	57147	2001	NBS49K	26	68	3	0	100	49	7	13
3.	25*	818928	2005	NBS49K	23	71	2	0	176	49	7	13

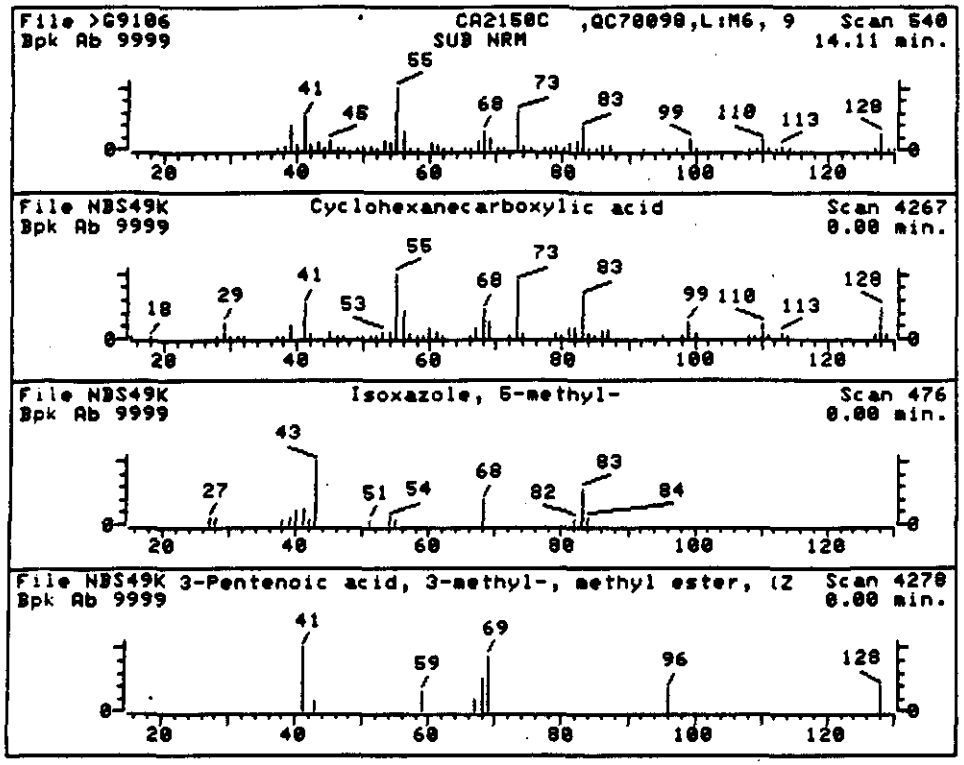


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 16.25
Scan: 645
Area: 3583898 Rank: 3
Semi-quantitative Conc (uncorrected): 115.91 UG/ML
Semi-quantitative Conc (corrected): 257.58 ug/l
Calculated using Istd: d8-Naphthalene @ 14.21 minutes

1.	Benzeneacetic acid	136	C8H8O2
2.	Thiocyanic acid, phenylmethyl ester	149	C8H7NS
3.	Benzene, (bromomethyl)-	170	C7H7Br

Sample file: >G9106 Spectrum #: 645
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78*	103822	16614	NBS49K	36	56	2	0	85	3	55	17
2.	48	3012371	8432	NBS49K	57	21	2	0	100	23	17	19
3.	45	100390	8437	NBS49K	48	34	2	0	100	23	17	16

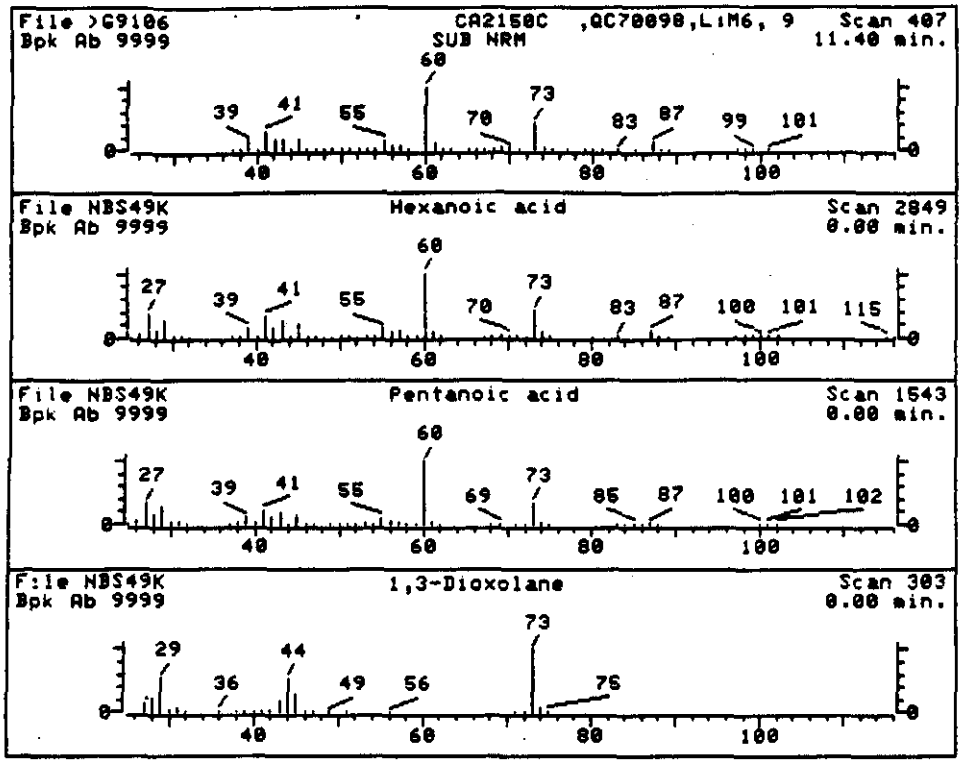


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 14.11
Scan: 540
Area: 3205181 Rank: 4
Semi-quantitative Conc (uncorrected): 103.66 UG/ML
Semi-quantitative Conc (corrected): 230.36 ug/l
Calculated using Istd: d8-Naphthalene @ 14.21 minutes

1.	Cyclohexanecarboxylic acid	128	C7H12O2
2.	Isoxazole, 5-methyl-	83	C4H5NO
3.	3-Pentenoic acid, 3-methyl-, methyl ester, (Z)-	128	C7H12O2

Sample file: >G9106 Spectrum #: 540
Search speed: 2 Tilting option: S No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	98895	15236	NBS49K	100	17	1	0	54	13	64	94
2.	15*	5765446	3543	NBS49K	31	54	2	0	66	59	3	15
3.	11*	56728177	15241	NBS49K	26	36	3	0	52	63	2	13

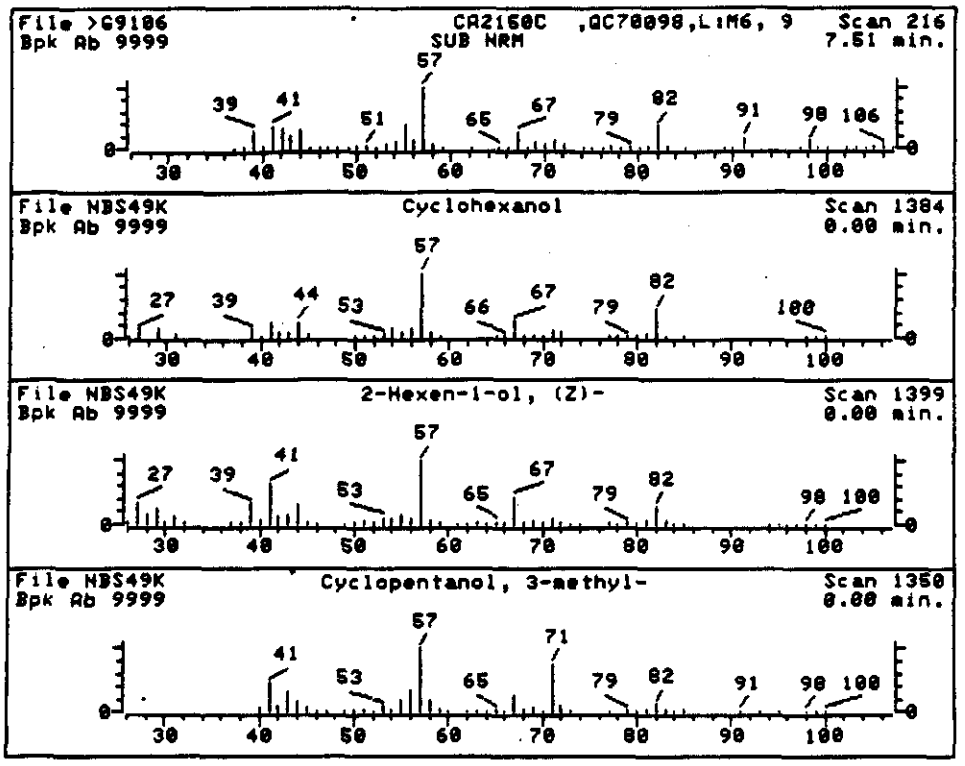


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 11.40
Scan: 407
Area: 2539308 Rank: 6
Semi-quantitative Conc (uncorrected): 55.39 UG/ML
Semi-quantitative Conc (corrected): 123.09 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1.	Hexanoic acid	116 C6H12O2
2.	Pentanoic acid	102 C5H10O2
3.	1,3-Dioxolane	74 C3H6O2

Sample file: >G9106 Spectrum #: 407
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	142621	2036	NBS49K	49	46	2	0	89	4	55	13
2.	60	109524	2022	NBS49K	40	48	1	0	100	12	30	14
3.	11*	646060	4797	NBS49K	25	39	2	0	44	65	2	14

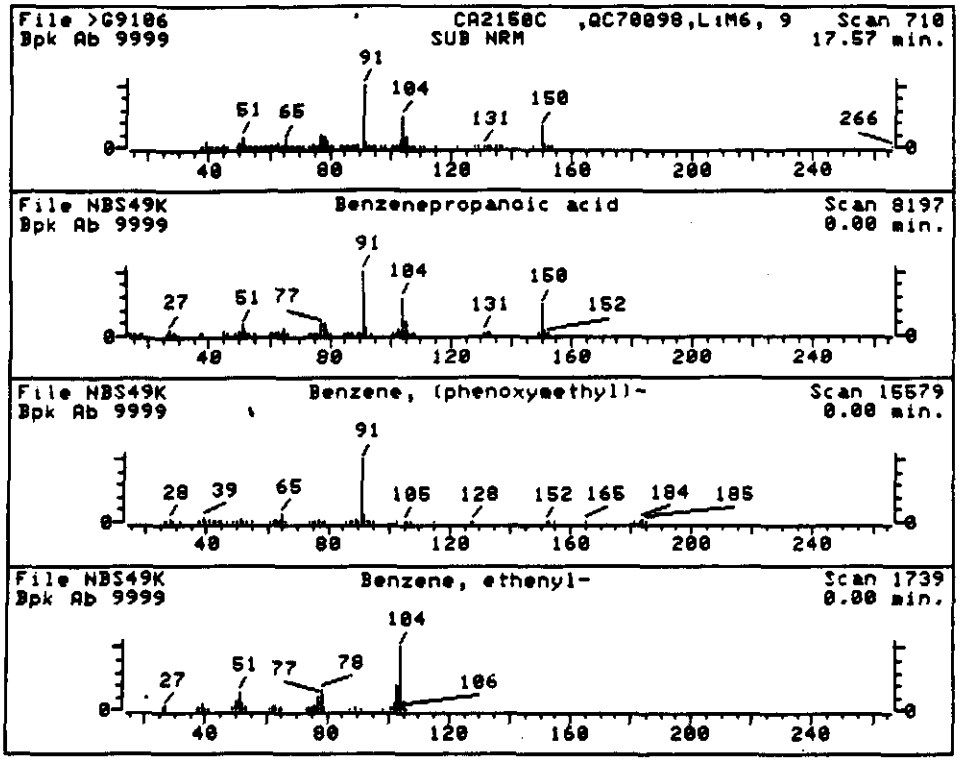


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 7.51
Scan: 216
Area: 1786168 Rank: 7
Semi-quantitative Conc (uncorrected): 38.96 UG/ML
Semi-quantitative Conc (corrected): 86.58 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1. Cyclohexanol 100 C6H12O
2. 2-Hexen-1-ol, (Z)- 100 C6H12O
3. Cyclopentanol, 3-methyl- 100 C6H12O

Sample file: >G9106 Spectrum #: 216
Search speed: 2 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	63	108930	5866	NBS49K	73	21	1	0	73	17	30	36
2.	53*	928949	5870	NBS49K	50	48	2	0	100	21	22	25
3.	42*	18729481	4268	NBS49K	27	70	3	0	100	25	17	13

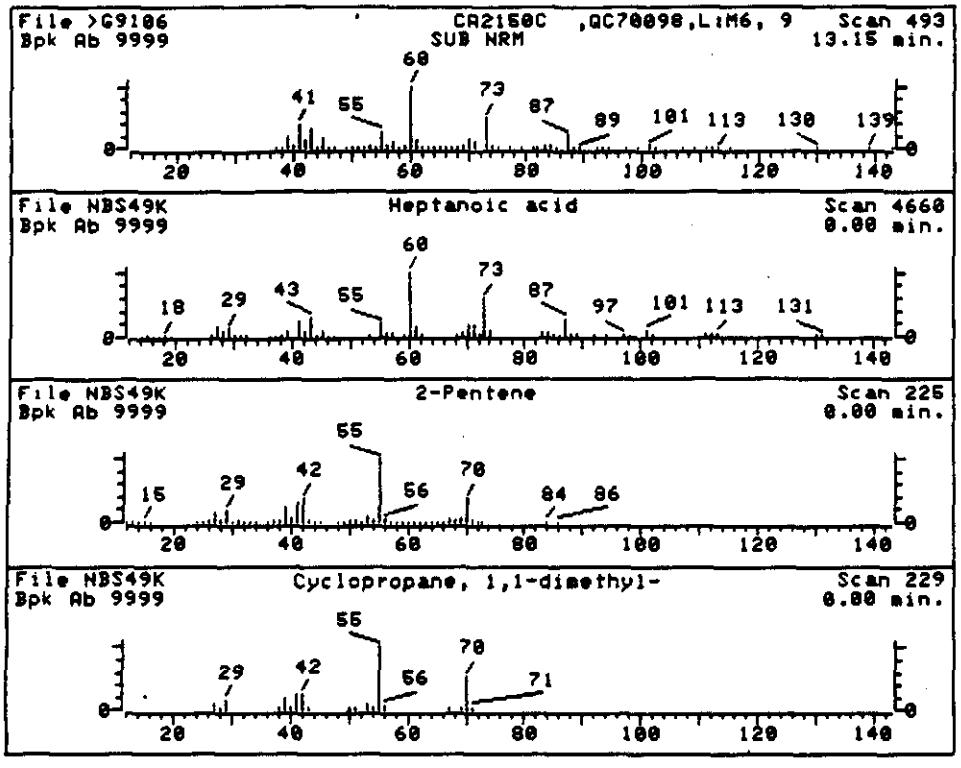


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 17.57
Scan: 710
Area: 1663185 Rank: 8
Semi-quantitative Conc (uncorrected): 56.40 UG/ML
Semi-quantitative Conc (corrected): 125.32 ug/l
Calculated using Istd: d10-Acenaphthene @ 19.65 minutes

1.	Benzenepropanoic acid	150 C9H10O2
2.	Benzene, (phenoxymethyl)-	184 C13H12O
3.	Benzene, ethenyl-	104 C8H8

Sample file: >G9106 Spectrum #: 710
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	501520	19349	NBS49K	84	18	1	1	68	4	66	73
2.	20	946805	8439	NBS49K	35	43	2	0	100	54	5	12
3.	20*	100425	10807	NBS49K	27	46	0	2	16	51	5	12

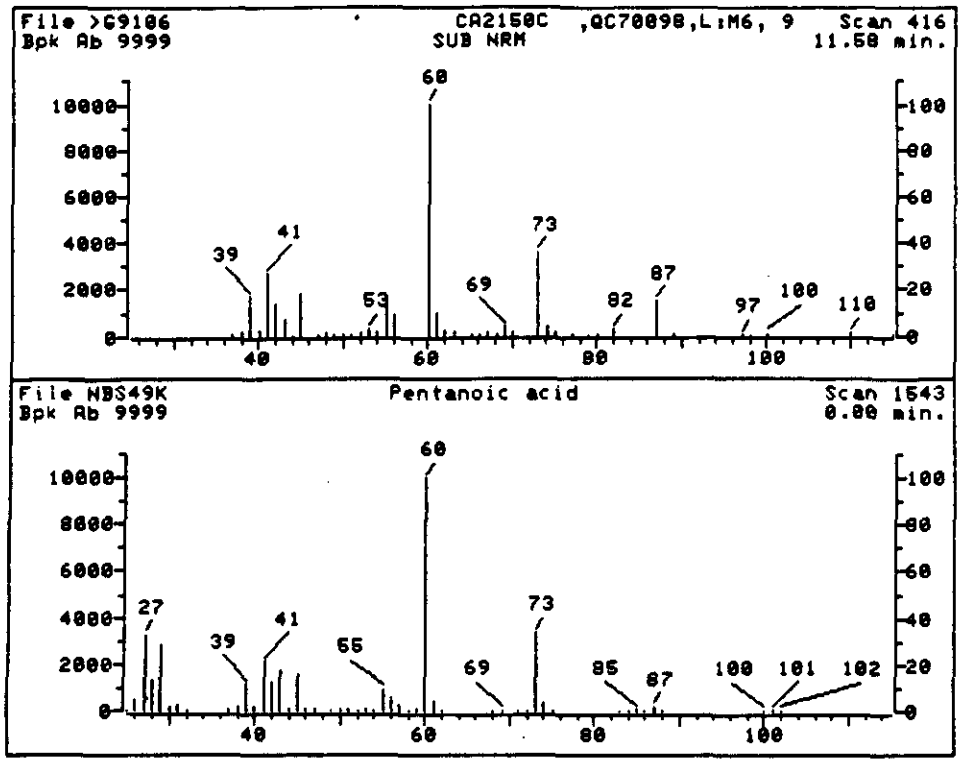


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 13.15
Scan: 493
Area: 1486042 Rank: 9
Semi-quantitative Conc (uncorrected): 48.06 UG/ML
Semi-quantitative Conc (corrected): 106.81 ug/l
Calculated using Istd: d8-Naphthalene @ 14.21 minutes

1.	Heptanoic acid	130 C7H14O2
2.	2-Pentene	70 C5H10
3.	Cyclopropane, 1,1-dimethyl-	70 C5H10

Sample file: >G9106 Spectrum #: 493
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	46	111148	2055	NBS49K	52	45	1	0	60	25	17	17
2.	25*	109682	3816	NBS49K	41	24	1	2	25	50	7	16
3.	25*	1630940	3820	NBS49K	37	31	1	2	25	50	7	13

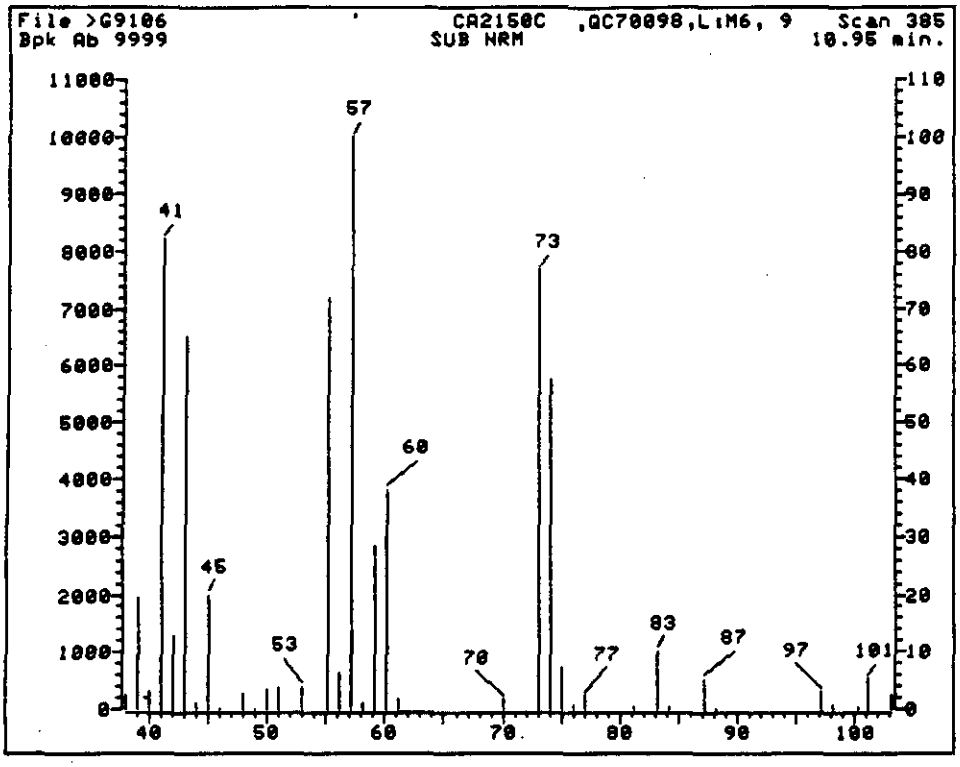


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 11.58
Scan: 416
Area: 651426 Rank: 14
Semi-quantitative Conc (uncorrected): 14.21 UG/ML
Semi-quantitative Conc (corrected): 31.58 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1. *Pentanoic acid* 102 C5H10O2

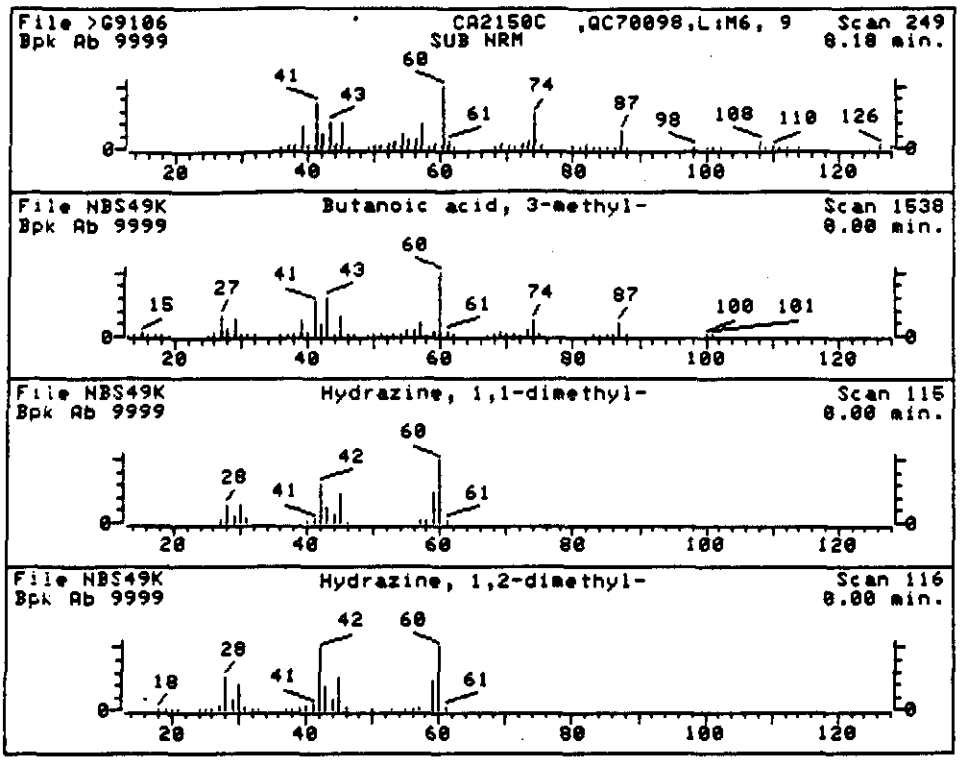
Sample file: >G9106 Spectrum #: 416
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	109524	2022	NBS49K	45	43	2	0	100	15	30	15



Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 10.95
Scan: 385
Area: 491645 Rank: 15
Semi-quantitative Conc (uncorrected): 10.72 UG/ML
Semi-quantitative Conc (corrected): 23.83 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

No PBM hits for this scan.

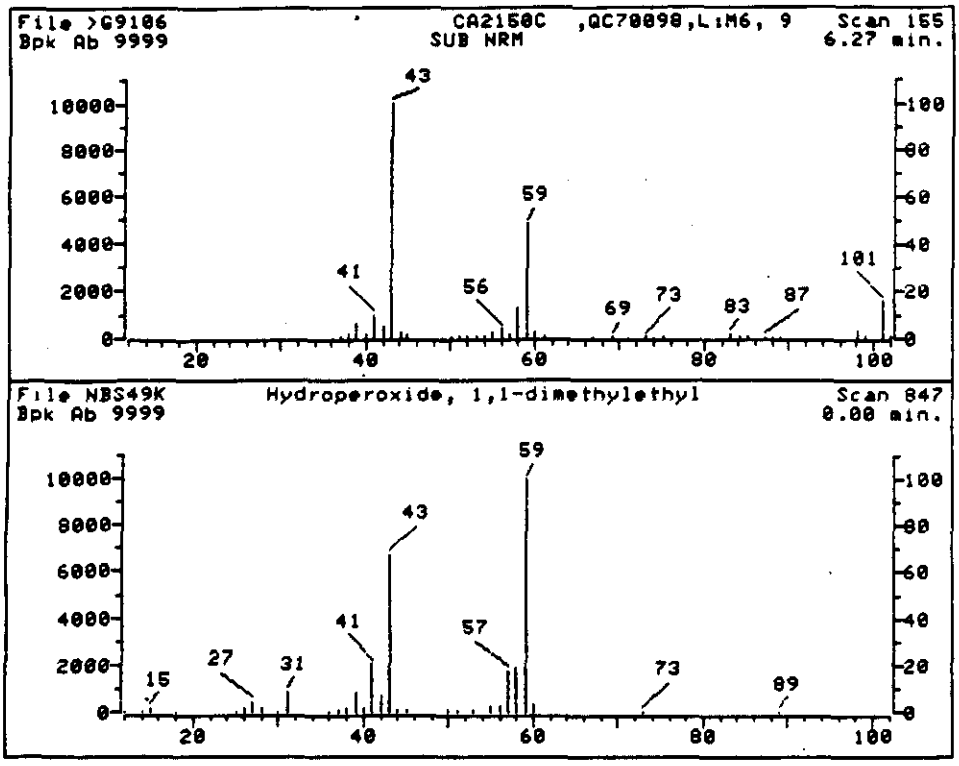


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 8.18
Scan: 249
Area: 377716 Rank: 17
Semi-quantitative Conc (uncorrected): 8.24 UG/ML
Semi-quantitative Conc (corrected): 18.31 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1.	Butanoic acid, 3-methyl-	102 C5H10O2
2.	Hydrazine, 1,1-dimethyl-	60 C2H8N2
3.	Hydrazine, 1,2-dimethyl-	60 C2H8N2

Sample file: >G9106 Spectrum #: 249
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	50	503742	2021	NBS49K	65	32	1	0	99	26	24	30
2.	25*	57147	2001	NBS49K	35	59	2	0	89	46	7	15
3.	25*	540738	2002	NBS49K	30	65	2	0	76	46	7	14

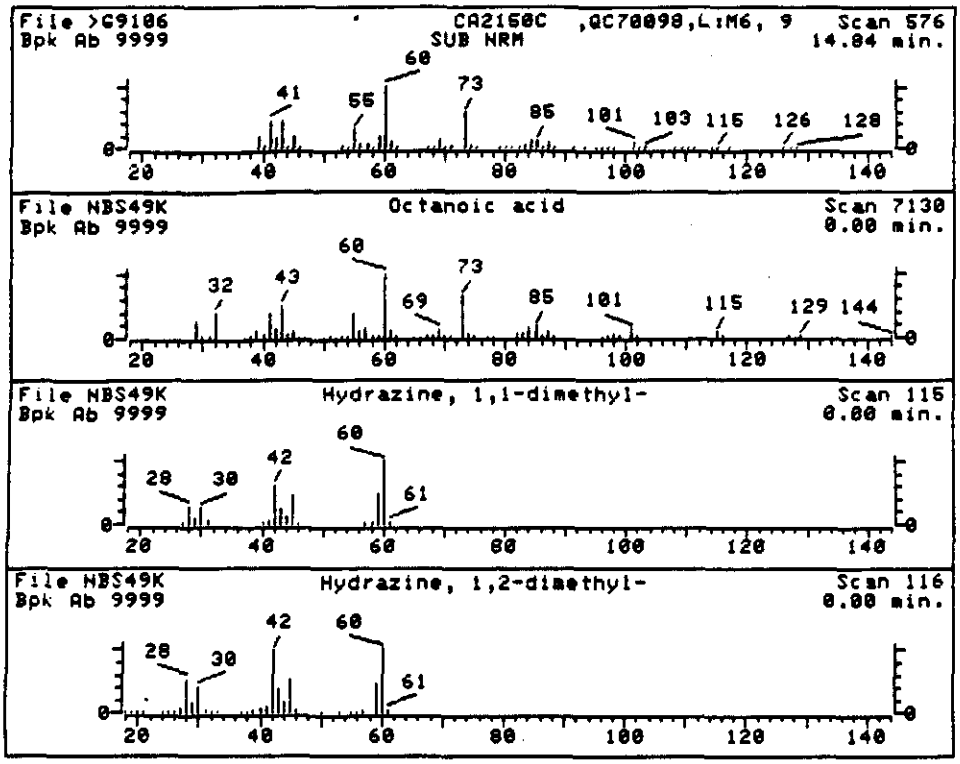


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 6.27
Scan: 155
Area: 362535 Rank: 19
Semi-quantitative Conc (uncorrected): 7.91 UG/ML
Semi-quantitative Conc (corrected): 17.57 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9106 Spectrum #: 155
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20	75912	1733	NBS49K	33	32	1	0	48	52	5	12

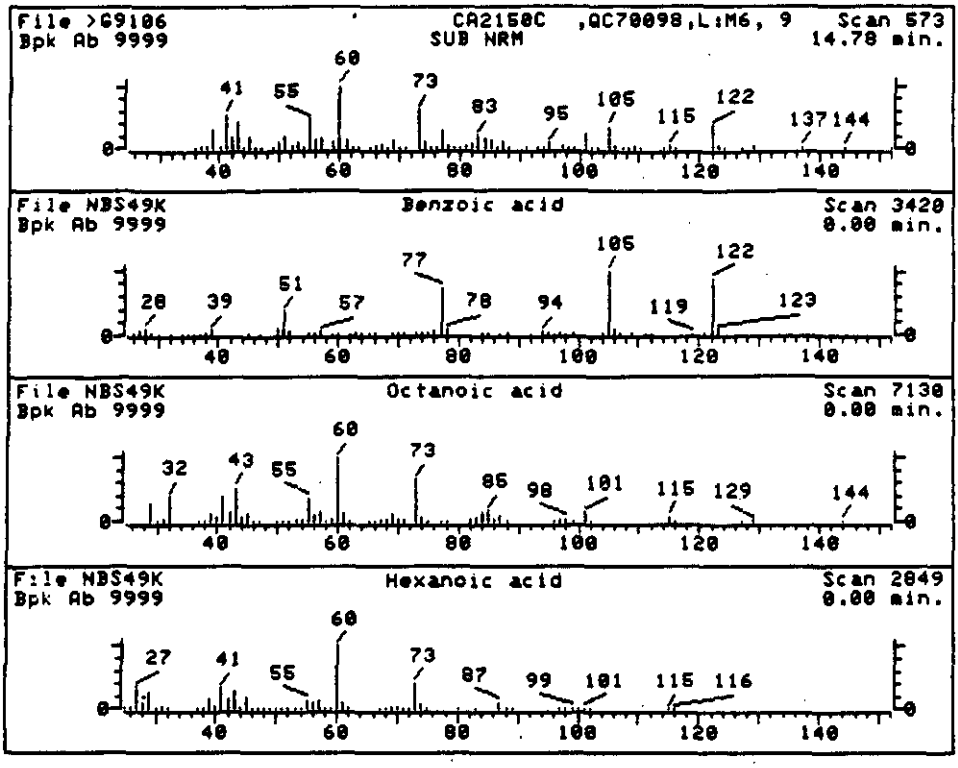


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 14.84
Scan: 576
Area: 361720 Rank: 20
Semi-quantitative Conc (uncorrected): 11.70 UG/ML
Semi-quantitative Conc (corrected): 26.00 ug/l
Calculated using Istd: d8-Naphthalene @ 14.21 minutes

1.	Octanoic acid	144	C8H16O2
2.	Hydrazine, 1,1-dimethyl-	60	C2H8N2
3.	Hydrazine, 1,2-dimethyl-	60	C2H8N2

Sample file: >G9106 Spectrum #: 576
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58	124072	2074	NBS49K	68	36	2	0	78	20	25	23
2.	20*	57147	2001	NBS49K	25	54	1	0	43	52	5	14
3.	20*	540738	2002	NBS49K	21	59	1	0	38	52	5	14

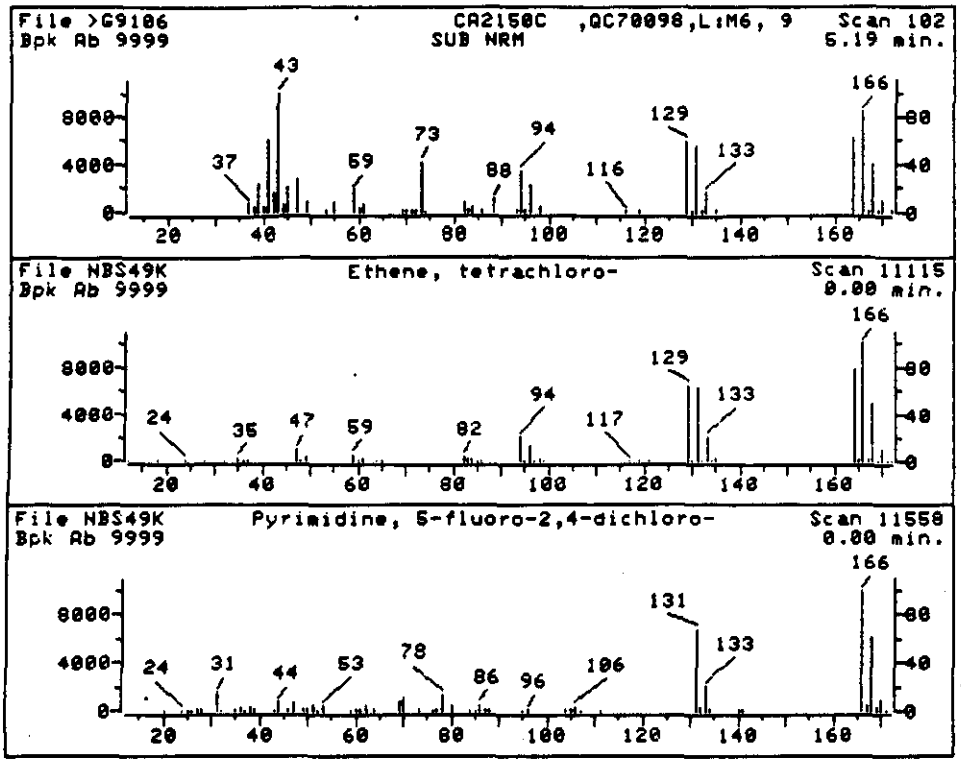


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 14.78
Scan: 573
Area: 303910 Rank: 21
Semi-quantitative Conc (uncorrected): 9.83 UG/ML
Semi-quantitative Conc (corrected): 21.84 ug/l
Calculated using Istd: d8-Naphthalene @ 14.21 minutes

1.	Benzoic acid	122 C7H6O2
2.	Octanoic acid	144 C8H16O2
3.	Hexanoic acid	116 C6H12O2

Sample file: >G9106 Spectrum #: 573
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59*	65850	13937	NBS49K	58	22	1	1	40	39	21	52
2.	31*	124072	2074	NBS49K	74	30	1	2	96	58	8	61
3.	30	142621	2036	NBS49K	62	33	1	0	98	47	10	28

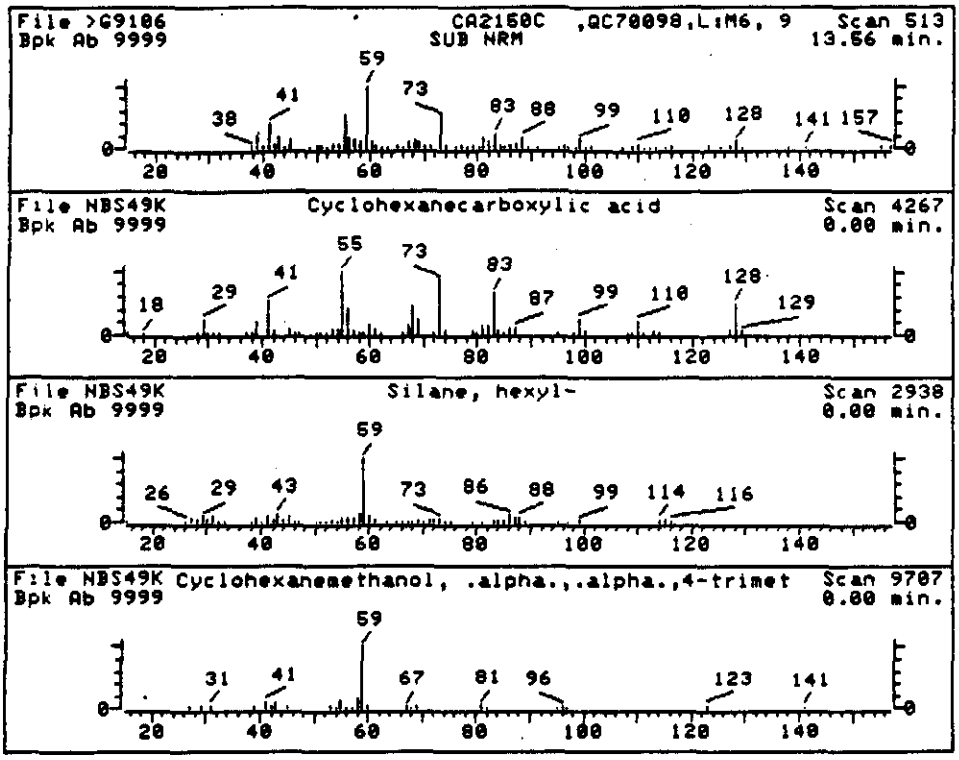


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 5.19
Scan: 102
Area: 265310 Rank: 22
Semi-quantitative Conc (uncorrected): 5.79 UG/ML
Semi-quantitative Conc (corrected): 12.86 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1. Ethene, tetrachloro- 164 C2C14
2. Pyrimidine, 5-fluoro-2,4-dichloro- 166 C4HC12FN2

Sample file: >G9106 Spectrum #: 102
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	93*	127184	22186	NBS49K	76	46	0	0	79	12	64	93
2.	25*	2927711	22194	NBS49K	45	65	3	0	65	42	8	13

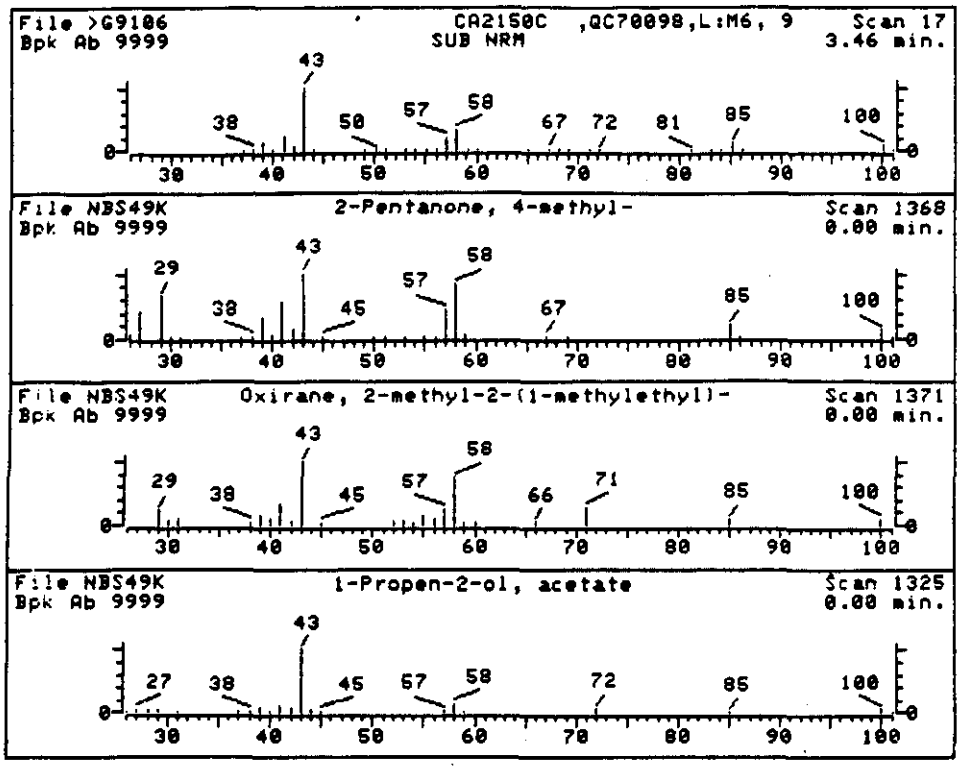


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 13.56
Scan: 513
Area: 254374 Rank: 23
Semi-quantitative Conc (uncorrected): 8.23 UG/ML
Semi-quantitative Conc (corrected): 18.28 ug/l
Calculated using Istd: d8-Naphthalene @ 14.21 minutes

1.	Cyclohexanecarboxylic acid	128 C7H12O2
2.	Silane, hexyl-	116 C6H16Si
3.	Cyclohexanemethanol, .alpha.,.alpha.,4-trimethyl-	156 C10H20O

Sample file: >G9106 *Spectrum #:* 513
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	61*	98895	15236	NBS49K	64	38	0	2	32	43	18	66
2.	40*	1072146	1798	NBS49K	43	48	2	0	90	35	16	23
3.	32	498817	1898	NBS49K	41	36	0	0	79	41	12	23

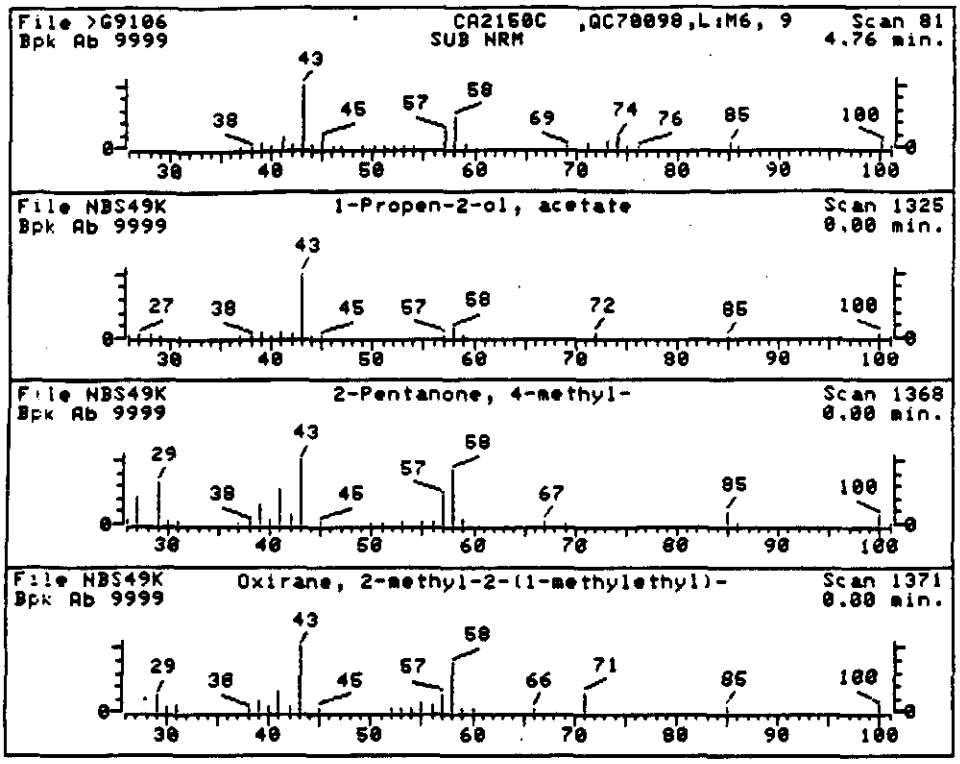


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 3.46
Scan: 17
Area: 243784 Rank: 24
Semi-quantitative Conc (uncorrected): 5.32 UG/ML
Semi-quantitative Conc (corrected): 11.82 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1. 2-Pentanone, 4-methyl- 100 C6H12O
2. Oxirane, 2-methyl-2-(1-methylethyl)- 100 C6H12O
3. 1-Propen-2-ol, acetate 100 C5H8O2

Sample file: >G9106 Spectrum #: 17
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	71*	108101	1369	NBS49K	52	30	0	0	39	27	29	66
2.	70*	72221035	1370	NBS49K	23	69	3	0	100	6	42	12
3.	36*	108225	1366	NBS49K	23	46	2	0	100	29	14	13

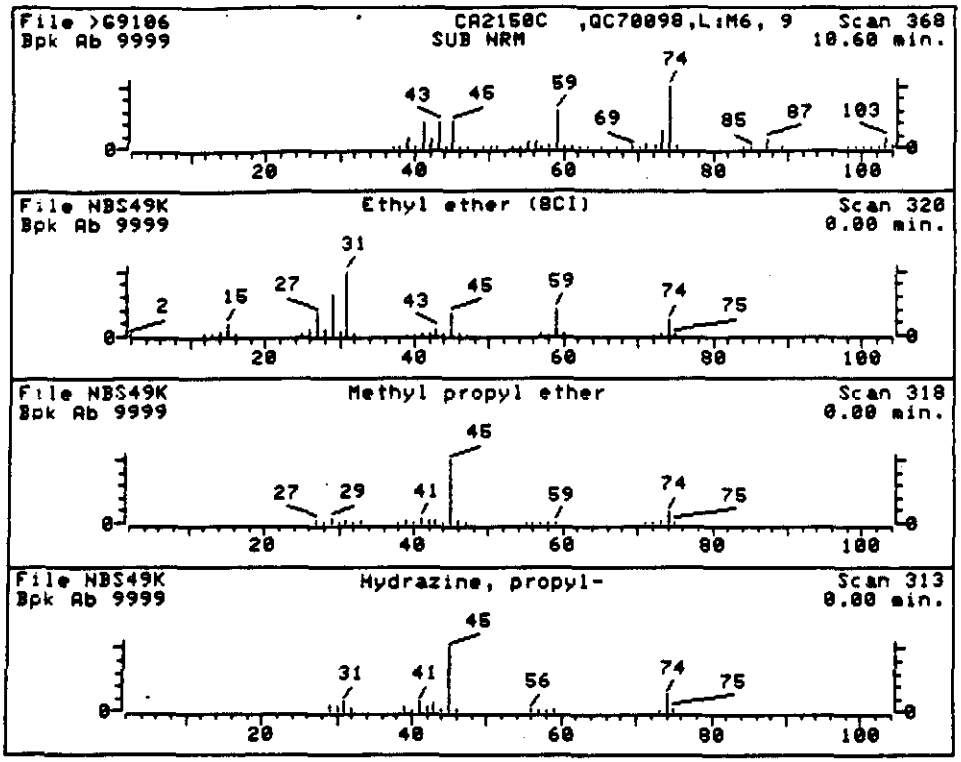


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 4.76
Scan: 81
Area: 210253 Rank: 25
Semi-quantitative Conc (uncorrected): 4.59 UG/ML
Semi-quantitative Conc (corrected): 10.19 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1.	1-Propen-2-ol, acetate	100	C5H8O2
2.	2-Pentanone, 4-methyl-	100	C6H12O
3.	Oxirane, 2-methyl-2-(1-methylethyl)-	100	C6H12O

Sample file: >G9106 Spectrum #: 81
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29*	108225	1366	NBS49K	27	42	1	0	95	40	10	15
2.	26*	108101	1369	NBS49K	32	65	2	0	56	44	8	14
3.	25*	72221035	1370	NBS49K	31	61	3	0	63	44	8	13

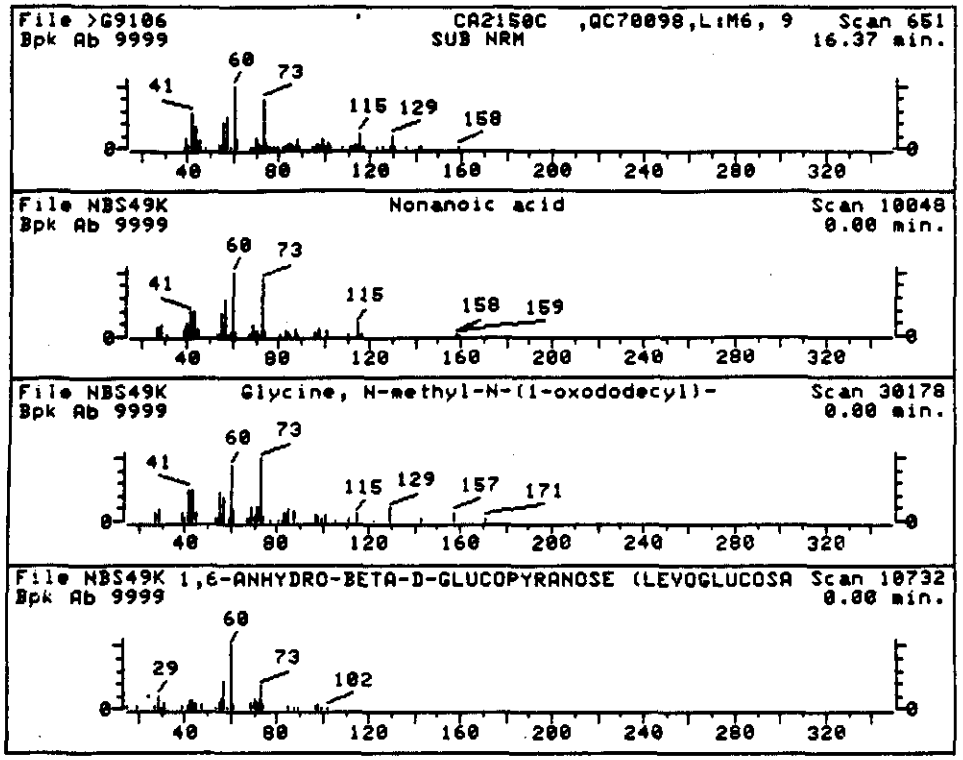


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 10.60
Scan: 368
Area: 171313 Rank: 26
Semi-quantitative Conc (uncorrected): 3.74 UG/ML
Semi-quantitative Conc (corrected): 8.30 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1.	Ethyl ether (8CI)	74 C4H10O
2.	Methyl propyl ether	74 C4H10O
3.	Hydrazine, propyl-	74 C3H10N2

Sample file: >G9106 Spectrum #: 368
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	60297	1718	NBS49K	25	68	1	0	132	50	7	14
2.	15*	557175	4854	NBS49K	20	49	2	0	564	56	3	13
3.	15*	5039612	4853	NBS49K	22	57	3	0	282	56	3	12

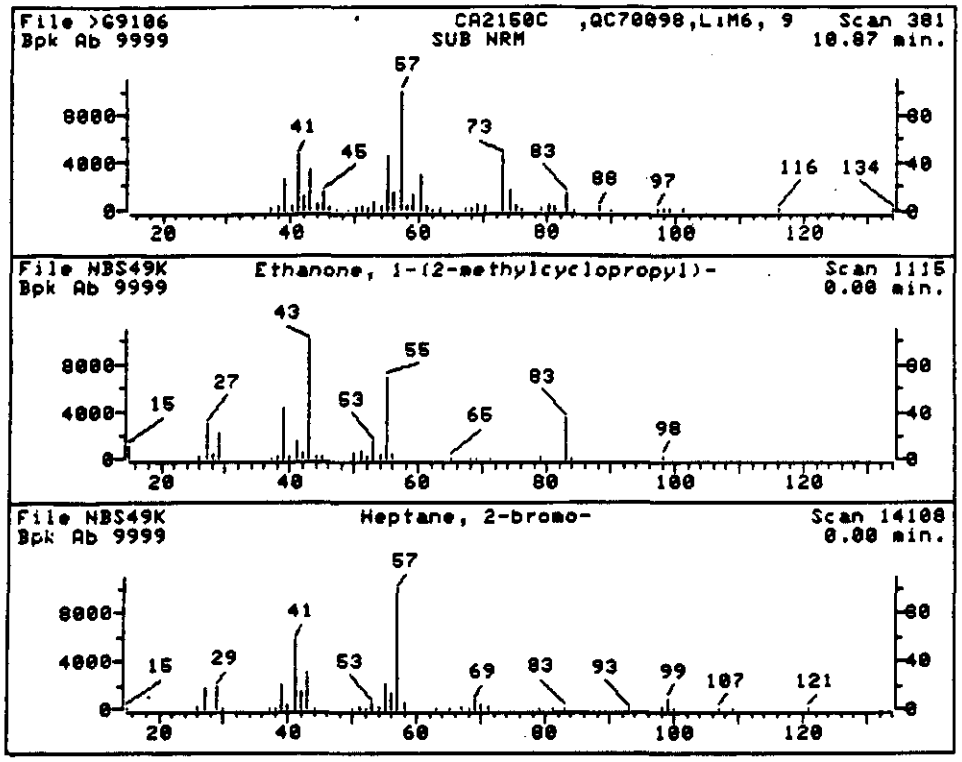


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 16.37
Scan: 651
Area: 158748 Rank: 27
Semi-quantitative Conc (uncorrected): 5.13 UG/ML
Semi-quantitative Conc (corrected): 11.41 ug/l
Calculated using Istd: d8-Naphthalene @ 14.21 minutes

1.	Nonanoic acid	158	C9H18O2
2.	Glycine, N-methyl-N-(1-oxododecyl)-	271	C15H29NO3
3.	1,6-ANHYDRO-BETA-D-GLUCOPYRANOSE (LEVOGLUCOSAN)	162	C6H10O5

Sample file: >G9106 Spectrum #: 651
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	68*	112050	2090	NBS49K	72	32	2	0	83	21	30	54
2.	52	97789	2162	NBS49K	73	77	3	0	78	18	20	13
3.	28	498077	2097	NBS49K	54	42	2	0	97	42	8	16

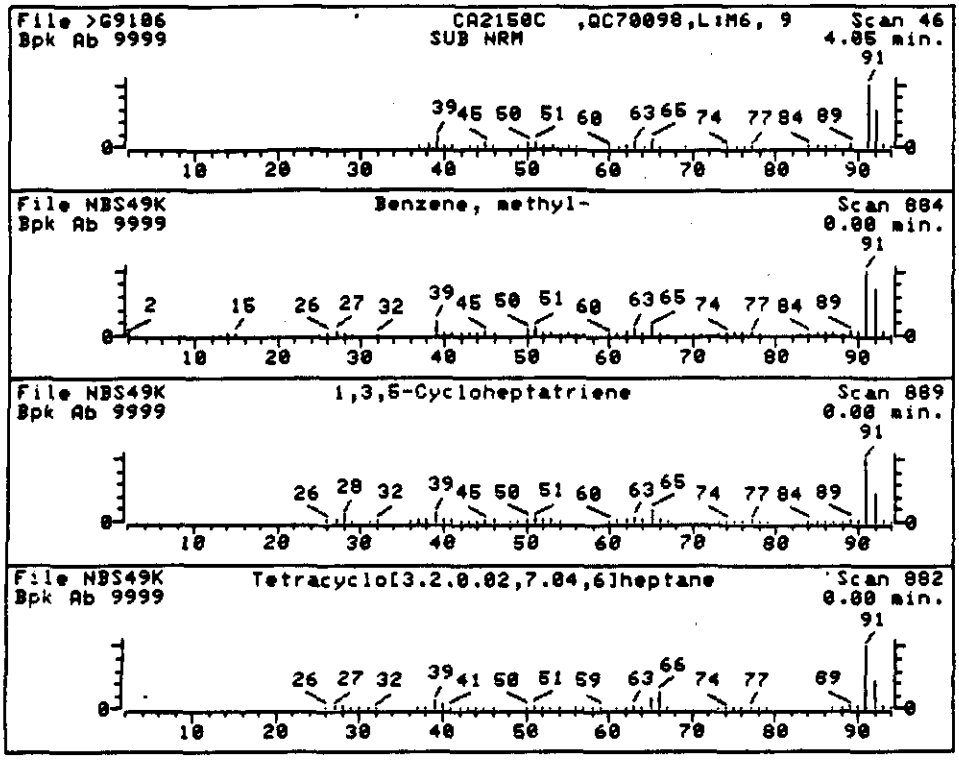


Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 10.87
Scan: 381
Area: 156313 Rank: 28
Semi-quantitative Conc (uncorrected): 3.41 UG/ML
Semi-quantitative Conc (corrected): 7.58 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1. Ethanone, 1-(2-methylcyclopropyl)- 98 C6H10O
2. Heptane, 2-bromo- 178 C7H15Br

Sample file: >G9106 Spectrum #: 381
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	930563	6136	NBS49K	39	35	2	1	32	52	5	12
2.	15	1974045	1287	NBS49K	42	42	2	0	71	56	3	14



Data File: >G9106::U3
Name:
Misc Data: CA2150C ,QC70098,L:M6, 900,2 BTL#17
RT (min): 4.05
Scan: 46
Area: 152372 Rank: 29
Semi-quantitative Conc (uncorrected): 3.32 UG/ML
Semi-quantitative Conc (corrected): 7.39 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.44 minutes

1. Benzene, methyl- 92 C7H8
2. 1,3,5-Cycloheptatriene 92 C7H8
3. Tetracyclo[3.2.0.02,7.04,6]heptane 92 C7H8

Sample file: >G9106 Spectrum #: 46
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79*	108883	8475	NBS49K	73	17	1	0	63	29	43	80
2.	71*	544252	8479	NBS49K	60	25	2	1	68	13	38	39
3.	60*	278068	3038	NBS49K	38	44	3	0	100	14	30	15

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2151C

Sample wt/vol: 880.0 (g/mL) ML Lab File ID: >G9060

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	57	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	57	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	57	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2151C

Sample wt/vol: 880.0 (g/mL) ML Lab File ID: >G9060

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	57	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	57	U
100-02-7	4-Nitrophenol	57	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	57	U
534-52-1	4,6-Dinitro-2-methylphenol	57	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	57	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenz(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ETCNJ . Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2151C

Sample wt/vol: 880.0 (g/mL) ML Lab File ID: >G9060

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec._____ dec._____ Date Extracted: 10/12/89

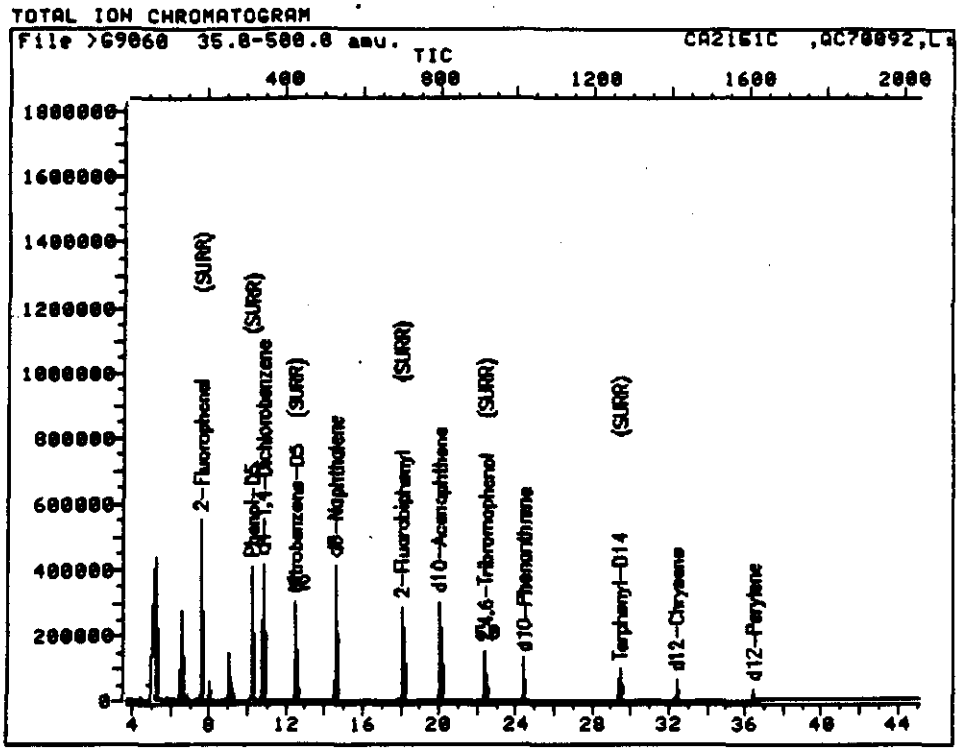
Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:____ Dilution Factor: 1

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
01. 141-78-6	Acetic acid, ethyl ester	5.11	430	BJ
02.	ACETONE DIMER	6.46	73	BJ
03.	UNKNOWN	8.94	36	BJ
04.	UNKNOWN	7.88	13	BJ



Data File: >G9060::U3 Quant Output File: ^G9060::AQ
Name:
Misc: CA2151C ,QC70092,L:M6, 880,2 BTL#26

Id File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

Operator ID: PT1575
Quant Time: 891115 15:40
Injected at: 891115 14:49

QUANT REPORT Page 1

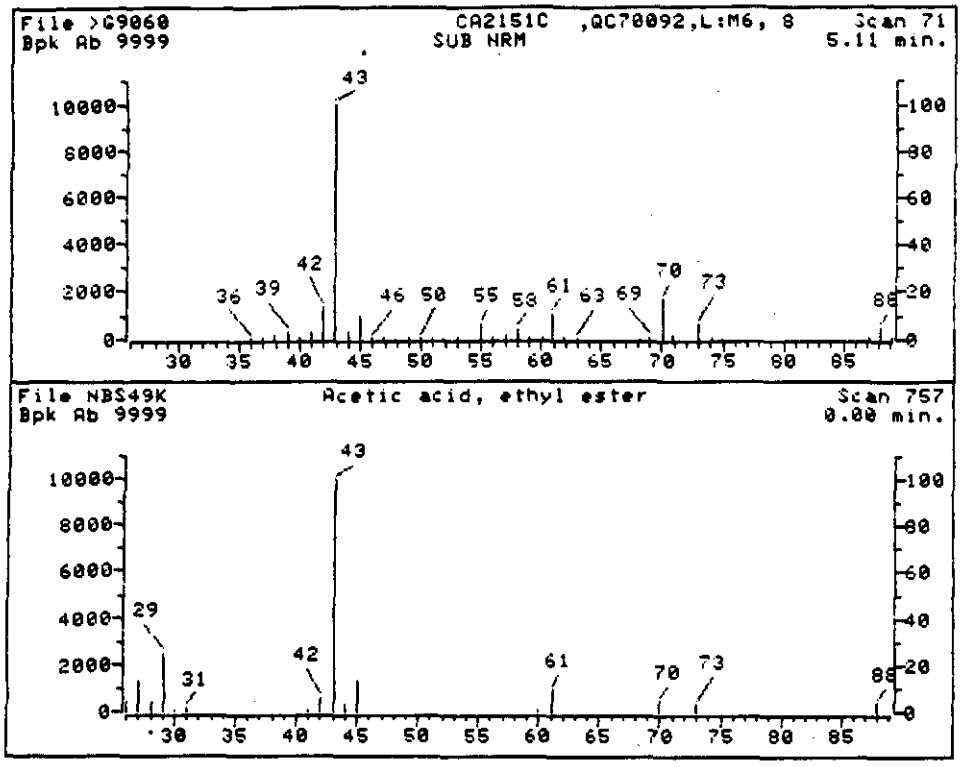
Operator ID: PT1575 Quant Rev: 7 Quant Time: 891115 15:40
Output File: ^G9060::AQ Injected at: 891115 14:49
Data File: >G9060::U3 Dilution Factor: 1.00000
Name:
Misc: CA2151C ,QC70092,L:M6, 880,2 BTL#26

ID File: IG0130::PF
Title: IFB/BNA, PP/BNA
Last Calibration: 891115 12:26

	Compound		R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene		10.71	346	240162	40.00	UG/ML	90
3)	2-Fluorophenol	(SURR)	7.49	188	335527	75.56	UG/ML	83
5)	Phenol-D5	(SURR)	10.16	319	421872	70.82	UG/ML	92
12)	N-Nitrosodi-n-propylamine		12.41	430	35788	~~10.67~~	~~UG/ML~~	38
17)	*d8-Naphthalene		14.49	532	473507	40.00	UG/ML	94
18)	Nitrobenzene-D5	(SURR)	12.41	430	231195	35.49	UG/ML	95
32)	*d10-Acenaphthene		19.93	800	176429	40.00	UG/ML	97
36)	2-Fluorobiphenyl	(SURR)	18.00	705	258528	34.77	UG/ML	99
50)	Fluorene		22.37	920	2729	~~.502~~	~~UG/ML~~	85
52)	2,4,6-Tribromophenol	(SURR)	22.37	920	40932	60.76	UG/ML	97
54)	*d10-Phenanthrene		24.37	1018	147269	40.00	UG/ML	97
65)	*d12-Chrysene		32.37	1412	60704	40.00	UG/ML	97
67)	Terphenyl-D14	(SURR)	29.41	1266	89691	53.27	UG/ML	93
73)	*d12-Perylene		36.38	1609	38274	40.00	UG/ML	86

* Compound is ISTD

EA 11-30-89

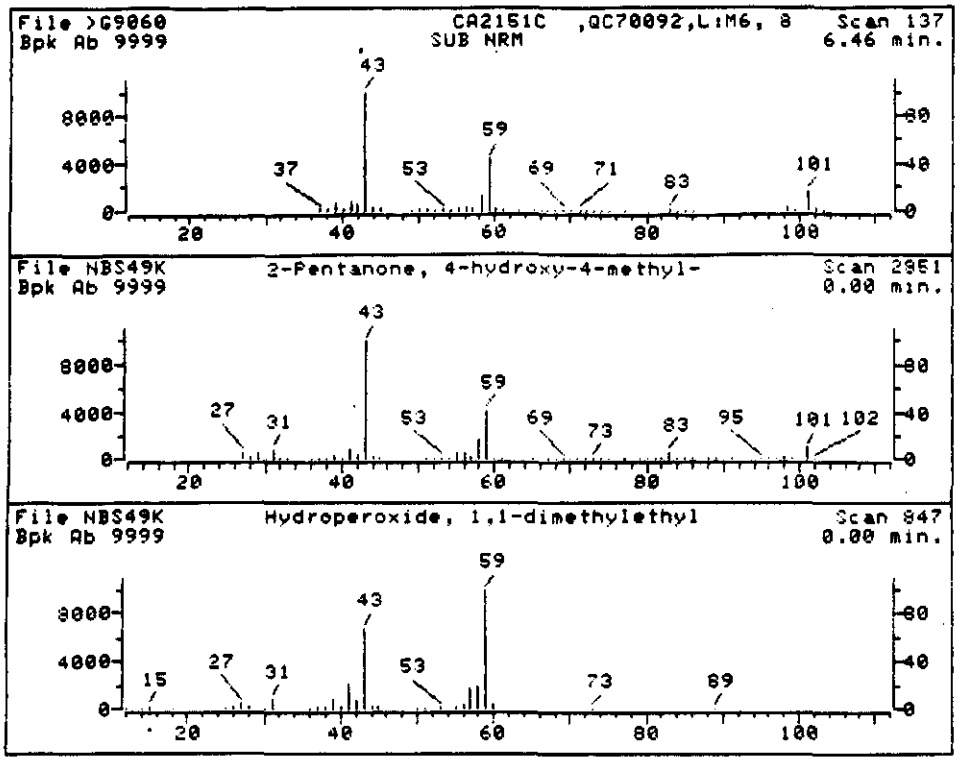


Data File: >G9060::U3
Name:
Misc Data: CA2151C ,QC70092,L:M6, 880,2 BTL#26
RT (min): 5.11
Scan: 71
Area: 4334828 Rank: 1
Semi-quantitative Conc (uncorrected): 188.26 UG/ML
Semi-quantitative Conc (corrected): 427.87 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.71 minutes

1. Acetic acid, ethyl ester 88 C4H8O2

Sample file: >G9060 Spectrum #: 71
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	141786	2197	NBS49K	28	50	1	0	73	15	30	15

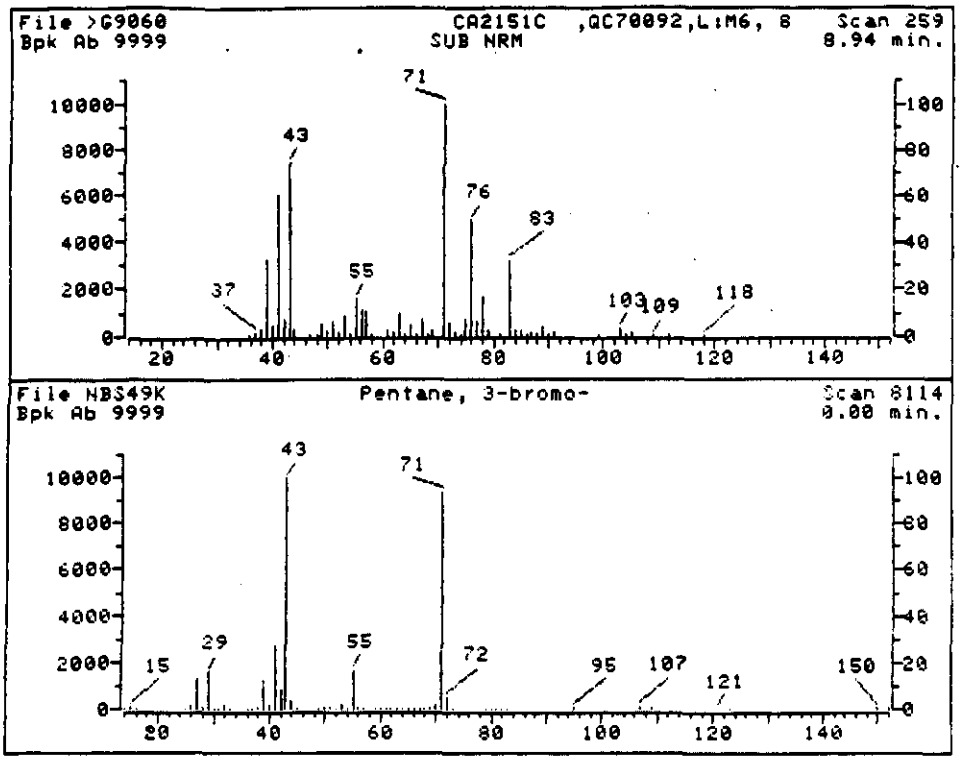


Data File: >G9060::U3
Name:
Misc Data: CA2151C ,QC70092,L:M6, 880,2 BTL#26
RT (min): 6.46
Scan: 137
Area: 737713 Rank: 6
Semi-quantitative Conc (uncorrected): 32.04 UG/ML
Semi-quantitative Conc (corrected): 72.82 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.71 minutes

1. 2-Pentanone, 4-hydroxy-4-methyl- 116 C6H12O2
2. Hydroperoxide, 1,1-dimethylethyl 90 C4H10O2

Sample file: >G9060 Spectrum #: 137
Search speed: 2 Tilting option: S No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	.70	123422	1790	NBS49K	43	40	2	0	75	6	42	14
2.	.20	25912	1733	NBS49K	34	31	1	0	38	51	5	12

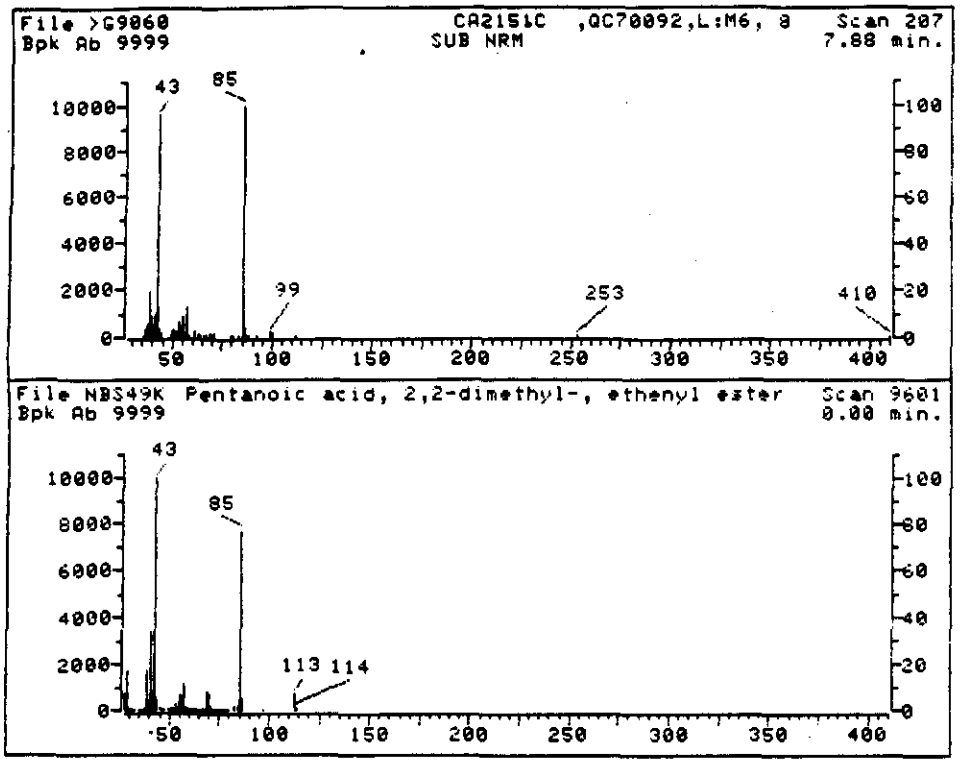


Data File: >G9060::U3
Name:
Misc Data: CA2151C ,QC70092,L:M6, 880,2 BTL#26
RT (min): 8.94
Scan: 259
Area: 366117 Rank: 8
Semi-quantitative Conc (uncorrected): 15.90 UG/ML
Semi-quantitative Conc (corrected): 36.14 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.71 minutes

1. Pentane, 3-bromo- 150 C5H11Br

Sample file: >G9060 Spectrum #: 259
Search speed: 2 Tilting option: S No. of ion ranges searched: 5

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I
1.	20	1809105	4342	NBS49K	35	41	1	0	74	52	5	13



Data File: >G9060::U3
Name:
Misc Data: CA2151C ,QC70092,L:M6, 880,2 BTL#26
RT (min): 7.88
Scan: 207
Area: 132327 Rank: 10
Semi-quantitative Conc (uncorrected): 5.75 UG/ML
Semi-quantitative Conc (corrected): 13.06 ug/l
Calculated using Istd: d4-1,4-Dichlorobenzene @ 10.71 minutes

1. Pentanoic acid, 2,2-dimethyl-, ethenyl ester 156 C9H16O2

Sample file: >G9060 Spectrum #: 207
Search speed: 2 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	52	44970050	6671	NBS49K	36	46	2	0	96	20	20	12