SEMS DocID 622990

P.F.

US ENVIRONMENTAL PROTECTION AGENCY
60 Westview Street
Lexington, MA. 02173

Superfund Records Center
SITE: NWIRP
BREAK: 3.2
OTHER: 622990

DATE: September 17, 1998

SUBJECT: **Naval Weapons Industrial Reserve Plant (NWIRP), Bedford, MA**
Soils–Volatile Organic Analysis by GC/MS

Samples Received: 07597 (SB217A1), 07600 (SB217B1), 07599 (SB2117B1), 07598 (TBO1)

FROM: Joseph Montanaro, EIA

TO: Patty Marajh-Whittemore, HBT

THRU: William Andrade, Ph.D., Analytical Specialist

PROJECT NUMBER: 98720

DATE(S) SAMPLES RECEIVED BY THE LABORATORY: 9/10/98

ANALYTICAL PROCEDURE:

SOIL: The samples were processed by Method 5035, High Concentration for Soils and the extracts were analyzed by SW-846, Method 8260B, SW-846, Rev 0, January 1995, (VOAGCMS1. SOP 8/97). Concentration is based on dry weight.

QUALITY CONTROL:

1. A method blank was analyzed prior to sample analysis.
2. Each sample was spiked with three surrogate compounds at 25 ppb concentration. The results for the surrogate recoveries are reported for each sample.
3. Sample 07597 (SB217A1), was spiked in duplicate and analyzed to determine laboratory precision and accuracy.

DATA FILE: J:\CHEMSTRY\REPORTS\VOA\98720SO.WK4

ANALYTICAL PARAMETERS
PURGEABLE ORGANIC ANALYSIS

INSTRUMENTS: Tekmar Aquatek 50 Purge and Trap Autosampler
Tekmar LSC-2000
Finnigan INCOS-50 B

PURGE CONDITIONS:

Gas:	Helium
Purge Time and Flow:	11 min., 40 ml/min
Dry Purge:	4 min., 40 ml/min
Trap:	25 cm stainless steel (1/8 in. OD) packed with Carbopack B (10 cm) Carboxen 1000 (6 cm), and Carboxen 1001 (1 cm)
Desorption Time,Flow, Temperature:	4 min, 15 ml/min., 250 C
Bake out cycle:	8 min @ 260 C

CHROMATOGRAPHIC CONDITIONS:

Column:	Restek 502.2 40M length, 0.18 mm id, 1.0 df (um)
Program:	Initial 50 C programmed at 8 C/min to 220 C and held 220 C for 7 minutes.
Injector and Transfer Temperatures:	200 C
Carrier Gas and Flow:	Helium, 15 ml/min

MASS SPECTROMETER CONDITIONS:

Electron Energy:	70 V
Mass Range:	35 to 300
Scan Rate:	1.5 seconds

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
PROJECT AND REPORT FORM

Chemist Reviewing Data: Dan Boudreau

Method Modifications: None

Limitations of Data: None

Laboratory Blank Problems: None

Instrument Performance Problems: None

Surrogate or Spike Recovery Problems: None

Additional Comments: None

MATRIX SPIKE DUPLICATE ANALYSIS

FACILITY SAMPLED: NWIRP
SAMPLE NUMBER: 07597 (SB217A1)
FILE NAME(S): 09148F09 & 09148F10
DATE OF ANALYSIS: 9/14/98

ACCURACY

COMPOUND	AVERAGE % RECOVERY	ACCEPTABLE RANGE[2]
1,1 Dichloroethylene	98	7-148
Benzene	93	39-119
Trichloroethylene	92	37-130
Toluene	106	43-136
Chlorobenzene	119	48-131

PRECISION

Compound	#1 RECOVERY	#2 RECOVER	RPD	ACCEPTABLE RANGE[2]
1,1 Dichloroethylene	110	85	25	0-52
Benzene	89	97	9	0-24
Trichloroethylene	91	92	1	0-27
Toluene	99	112	12	0-33
Chlorobenzene	114	124	8	0-34

[1]=out of range
[2]=quality control acceptance criteria as per laboratory
[3]=acceptance limit from Federal Register Table 5 - Method 624

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: Lab Blank
FILE NAME(S): 09148F03
DATE OF ANALYSIS: 9/14/98

DILUTION FACTOR(S): 1

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	ppb Conc. (ug/L)	Reporting Limits (ug/L)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	5.00	
74-83-9	34413	Bromomethane	ND	5.00	
75-01-4	39175	Vinyl Chloride	ND	5.00	
75-00-3	34311	Chloroethane	ND	5.00	
75-09-2	34423	Methylene Chloride	ND	5.00	
75-69-4	34488	Trichlorofluoromethane	ND	5.00	
75-35-4	34501	1,1-Dichloroethylene	ND	5.00	
75-34-3	34496	1,1-Dichloroethane	ND	5.00	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	5.00	
67-66-3	32106	Chloroform	ND	5.00	
107-06-2	34531	1,2-Dichloroethane	ND	5.00	
71-55-6	34506	1,1,1-Trichloroethane	ND	5.00	
56-23-5	32102	Carbon Tetrachloride	ND	5.00	
75-27-4	32101	Bromodichloromethane	ND	5.00	
78-87-5	34541	1,2-Dichloropropane	ND	5.00	
10061-02-6	34699	t-1,3-Dichloropropene	ND	5.00	
79-01-6	39180	Trichloroethylene	ND	5.00	
124-48-1	32105	Dibromochloromethane	ND	5.00	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	5.00	
79-00-5	34511	1,1,2-Trichloroethane	ND	5.00	
71-43-2	34030	Benzene	ND	5.00	
75-25-2	32104	Bromoform	ND	5.00	
127-18-4	34475	Tetrachloroethylene	ND	5.00	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	5.00	
108-88-3	34010	Toluene	ND	5.00	
108-90-7	34301	Chlorobenzene	ND	5.00	
100-41-4	34371	Ethylbenzene	ND	5.00	
		Dichlorobenzene isomers	ND	5.00	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	5.00	
67-64-1	**81552**	**Acetone**	**7**	**10.00**	**L**
75-15-0	77041	Carbon Disulfide	ND	15.00	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: Lab Blank
Sample Results Continued:

CAS NO.	STORET NO.	Compound	ppb Conc. (ug/L)	Reporting Limits (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	20.00	
591-10-6	77103	2-Hexanone	ND	3.00	
108-10-1	81596	4-Methyl-2-Pentanone (MIBK)	ND	3.00	
100-42-5	81708	Styrene	ND	5.00	
133-02-7	81551	Xylenes (total)	ND	5.00	
		1,2-Dibromoethane (EDB)	ND	5.00	
		Tetrahydrofuran	ND	35.00	
		Ethyl ether	ND	15.00	
		Isopropylbenzene	ND	5.00	
		n-Propylbenzene	ND	5.00	
		1,3,5-Trimethylbenzene	ND	5.00	
		1,2,4-Trimethylbenzene	ND	5.00	
		sec-Butylbenzene	ND	5.00	
		para-Isopropyltoluene	ND	5.00	
		n-Butylbenzene	ND	5.00	
		Naphthlene	ND	5.00	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	ACCEPTABLE RANGE[2]
1,2-Dichloroethane,d4	103	63-145
Toluene,d8	94	76-116
1,4-Bromofluorobenzene	91	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
[1]=out of range
[2]=quality control acceptance criteria as per laboratory

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: Method Blank
FILE NAME(S): 09148F05
DATE OF ANALYSIS: 9/14/98

SAMPLE WET WEIGHT: 4.098 grams
SAMPLE DRY WEIGHT: 4.098 grams
PERCENT MOISTURE: 0%
DILUTION FACTOR(S): 25
PRESERVATION: Cool to 4 C

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	PPM Conc. (ug/g)	Reporting Limits (ug/g)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	0.15	
74-83-9	34413	Bromomethane	ND	0.15	
75-01-4	39175	Vinyl Chloride	ND	0.15	
75-00-3	34311	Chloroethane	ND	0.15	
75-09-2	34423	Methylene Chloride	ND	0.15	
75-69-4	34488	Trichlorofluoromethane	ND	0.15	
75-35-4	34501	1,1-Dichloroethylene	ND	0.15	
75-34-3	34496	1,1-Dichloroethane	ND	0.15	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	0.15	
67-66-3	32106	Chloroform	ND	0.15	
107-06-2	34531	1,2-Dichloroethane	ND	0.15	
71-55-6	34506	1,1,1-Trichloroethane	ND	0.15	
56-23-5	32102	Carbon Tetrachloride	ND	0.15	
75-27-4	32101	Bromodichloromethane	ND	0.15	
78-87-5	34541	1,2-Dichloropropane	ND	0.15	
10061-02-6	34699	t-1,3-Dichloropropene	ND	0.15	
79-01-6	39180	Trichloroethylene	ND	0.15	
124-48-1	32105	Dibromochloromethane	ND	0.15	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	0.15	
79-00-5	34511	1,1,2-Trichloroethane	ND	0.15	
71-43-2	34030	Benzene	ND	0.15	
75-25-2	32104	Bromoform	ND	0.15	
127-18-4	34475	Tetrachloroethylene	ND	0.15	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	0.15	
108-88-3	34010	Toluene	ND	0.15	
108-90-7	34301	Chlorobenzene	ND	0.15	
100-41-4	34371	Ethylbenzene	ND	0.15	
		Dichlorobenzene isomers	ND	0.15	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	0.15	
67-64-1	**81552**	**Acetone**	**0.17**	**0.30**	**L,B**
75-15-0	77041	Carbon Disulfide	ND	0.45	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: Method Blank
Sample Results Continued:

CAS NO.	STORET NO.	Compound	PPM Conc. (ug/g)	Reporting Limits (ug/g)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	0.60	
591-10-6	77103	2-Hexanone	ND	0.09	
108-10-1	81596	4-Methyl-2-Pentanone (MIBK)	ND	0.09	
100-42-5	81708	Styrene	ND	0.15	
133-02-7	81551	Xylenes (total)	ND	0.15	
		1,2-Dibromoethane (EDB)	ND	0.15	
		Tetrahydrofuran	ND	1.05	
		Ethyl ether	ND	0.45	
		Isopropylbenzene	ND	0.15	
		n-Propylbenzene	ND	0.15	
		1,3,5-Trimethylbenzene	ND	0.15	
		1,2,4-Trimethylbenzene	ND	0.15	
		sec-Butylbenzene	ND	0.15	
		para-Isopropyltoluene	ND	0.15	
		n-Butylbenzene	ND	0.15	
		Naphthlene	ND	0.15	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	ACCEPTABLE RANGE[2]
1,2-Dichloroethane,d4	95	63-145
Toluene,d8	105	76-116
1,4-Bromofluorobenzene	94	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
[1]=out of range
[2]=quality control acceptance criteria as per laboratory

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID: 07597 (SB217A1)
FILE NAME(S): 09148F06
DATE OF COLLECTION: 9/10/98
DATE OF ANALYSIS: 9/14/98

SAMPLE WET WEIGHT: 5.961 grams
SAMPLE DRY WEIGHT: 5.623 grams
PERCENT MOISTURE: 6
DILUTION FACTOR(S): 25
PRESERVATION: Cool to 4 C

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Reporting Limits (ug/gm)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	0.11	
74-83-9	34413	Bromomethane	ND	0.11	
75-01-4	39175	Vinyl Chloride	ND	0.11	
75-00-3	34311	Chloroethane	ND	0.11	
75-09-2	34423	Methylene Chloride	ND	0.11	
75-69-4	34488	Trichlorofluoromethane	ND	0.11	
75-35-4	34501	1,1-Dichloroethylene	ND	0.11	
75-34-3	34496	1,1-Dichloroethane	ND	0.11	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	0.11	
67-66-3	32106	Chloroform	ND	0.11	
107-06-2	34531	1,2-Dichloroethane	ND	0.11	
71-55-6	34506	1,1,1-Trichloroethane	ND	0.11	
56-23-5	32102	Carbon Tetrachloride	ND	0.11	
75-27-4	32101	Bromodichloromethane	ND	0.11	
78-87-5	34541	1,2-Dichloropropane	ND	0.11	
10061-02-6	34699	t-1,3-Dichloropropene	ND	0.11	
79-01-6	39180	Trichloroethylene	ND	0.11	
124-48-1	32105	Dibromochloromethane	ND	0.11	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	0.11	
79-00-5	34511	1,1,2-Trichloroethane	ND	0.11	
71-43-2	34030	Benzene	ND	0.11	
75-25-2	32104	Bromoform	ND	0.11	
127-18-4	34475	Tetrachloroethylene	ND	0.11	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	0.11	
108-88-3	34010	Toluene	ND	0.11	
108-90-7	34301	Chlorobenzene	ND	0.11	
100-41-4	34371	Ethylbenzene	ND	0.11	
		Dichlorobenzene isomers	ND	0.11	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.11	
67-64-1	81552	Acetone	ND	0.22	
75-15-0	77041	Carbon Disulfide	ND	0.33	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: 07597 (SB217A1)
Sample Results Continued:

CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Reporting Limits (ug/gm)	Comments
78-93-3	81595	2-Butanone (MEK)	ND	0.44	
591-10-6	77103	2-Hexanone	ND	0.07	
108-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	0.07	
100-42-5	81708	Styrene	ND	0.11	
133-02-7	81551	Xylenes (total)	ND	0.11	
		1,2-Dibromoethane	ND	0.11	
		Tetrahydrofuran	ND	0.77	
		Ethyl ether	ND	0.33	
		Isopropylbenzene	ND	0.11	
		n-Propylbenzene	ND	0.11	
		1,3,5-Trimethylbenzene	ND	0.11	
		1,2,4-Trimethylbenzene	ND	0.11	
		sec-Butylbenzene	ND	0.11	
		para-Isopropyltoluene	ND	0.11	
		n-Butylbenzene	ND	0.11	
		Naphthlene	ND	0.11	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:		Observed Recoveries	ACCEPTABLE RANGE[2]
	1,2-Dichloroethane,d4	119	63-145
	Toluene,d8	92	76-116
	1,4-Bromofluorobenzene	96	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
[1]=out of range
[2]=quality control acceptance criteria as per laboratory

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID: 07600 (SB217B1)
FILE NAME(S): 09148F07
DATE OF COLLECTION: 9/10/98
DATE OF ANALYSIS: 9/14/98

SAMPLE WET WEIGHT: 6.024 grams
SAMPLE DRY WEIGHT: 5.387 grams
PERCENT MOISTURE: 11
DILUTION FACTOR(S): 25
PRESERVATION: Cool to 4 C

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Reporting Limits (ug/gm)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	0.12	
74-83-9	34413	Bromomethane	ND	0.12	
75-01-4	39175	Vinyl Chloride	ND	0.12	
75-00-3	34311	Chloroethane	ND	0.12	
75-09-2	34423	Methylene Chloride	ND	0.12	
75-69-4	34488	Trichlorofluoromethane	ND	0.12	
75-35-4	34501	1,1-Dichloroethylene	ND	0.12	
75-34-3	34496	1,1-Dichloroethane	ND	0.12	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	0.12	
67-66-3	32106	Chloroform	ND	0.12	
107-06-2	34531	1,2-Dichloroethane	ND	0.12	
71-55-6	34506	1,1,1-Trichloroethane	ND	0.12	
56-23-5	32102	Carbon Tetrachloride	ND	0.12	
75-27-4	32101	Bromodichloromethane	ND	0.12	
78-87-5	34541	1,2-Dichloropropane	ND	0.12	
10061-02-6	34699	t-1,3-Dichloropropene	ND	0.12	
79-01-6	39180	Trichloroethylene	ND	0.12	
124-48-1	32105	Dibromochloromethane	ND	0.12	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	0.12	
79-00-5	34511	1,1,2-Trichloroethane	ND	0.12	
71-43-2	34030	Benzene	ND	0.12	
75-25-2	32104	Bromoform	ND	0.12	
127-18-4	34475	Tetrachloroethylene	ND	0.12	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	0.12	
108-88-3	34010	Toluene	ND	0.12	
108-90-7	34301	Chlorobenzene	ND	0.12	
100-41-4	34371	Ethylbenzene	ND	0.12	
		Dichlorobenzene isomers	ND	0.12	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.12	
67-64-1	**81552**	**Acetone**	**0.13**	**0.24**	**L,B**
75-15-0	77041	Carbon Disulfide	ND	0.36	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: 07600 (SB217B1)
Sample Results Continued:

CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Reporting Limits (ug/gm)	Comments
78-93-3	81595	2-Butanone (MEK)	ND	0.48	
591-10-6	77103	2-Hexanone	ND	0.07	
108-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	0.07	
100-42-5	81708	Styrene	ND	0.12	
133-02-7	81551	Xylenes (total)	ND	0.12	
		1,2-Dibromoethane	ND	0.12	
		Tetrahydrofuran	ND	0.84	
		Ethyl ether	ND	0.36	
		Isopropylbenzene	ND	0.12	
		n-Propylbenzene	ND	0.12	
		1,3,5-Trimethylbenzene	ND	0.12	
		1,2,4-Trimethylbenzene	ND	0.12	
		sec-Butylbenzene	ND	0.12	
		para-Isopropyltoluene	ND	0.12	
		n-Butylbenzene	ND	0.12	
		Naphthlene	ND	0.12	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:		Observed Recoveries	ACCEPTABLE RANGE[2]
	1,2-Dichloroethane,d4	105	63-145
	Toluene,d8	104	76-116
	1,4-Bromofluorobenzene	100	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
[1]=out of range
[2]=quality control acceptance criteria as per laboratory

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID: 07599 (SB2117B1)
FILE NAME(S): 09148F08
DATE OF COLLECTION: 9/10/98
DATE OF ANALYSIS: 9/14/98

SAMPLE WET WEIGHT: 5.383 grams
SAMPLE DRY WEIGHT: 4.814 grams
PERCENT MOISTURE: 11
DILUTION FACTOR(S): 25
PRESERVATION: Cool to 4 C

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Reporting Limits (ug/gm)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	0.13	
74-83-9	34413	Bromomethane	ND	0.13	
75-01-4	39175	Vinyl Chloride	ND	0.13	
75-00-3	34311	Chloroethane	ND	0.13	
75-09-2	34423	Methylene Chloride	ND	0.13	
75-69-4	34488	Trichlorofluoromethane	ND	0.13	
75-35-4	34501	1,1-Dichloroethylene	ND	0.13	
75-34-3	34496	1,1-Dichloroethane	ND	0.13	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	0.13	
67-66-3	32106	Chloroform	ND	0.13	
107-06-2	34531	1,2-Dichloroethane	ND	0.13	
71-55-6	34506	1,1,1-Trichloroethane	ND	0.13	
56-23-5	32102	Carbon Tetrachloride	ND	0.13	
75-27-4	32101	Bromodichloromethane	ND	0.13	
78-87-5	34541	1,2-Dichloropropane	ND	0.13	
10061-02-6	34699	t-1,3-Dichloropropene	ND	0.13	
79-01-6	39180	Trichloroethylene	ND	0.13	
124-48-1	32105	Dibromochloromethane	ND	0.13	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	0.13	
79-00-5	34511	1,1,2-Trichloroethane	ND	0.13	
71-43-2	34030	Benzene	ND	0.13	
75-25-2	32104	Bromoform	ND	0.13	
127-18-4	34475	Tetrachloroethylene	ND	0.13	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	0.13	
108-88-3	34010	Toluene	ND	0.13	
108-90-7	34301	Chlorobenzene	ND	0.13	
100-41-4	34371	Ethylbenzene	ND	0.13	
		Dichlorobenzene isomers	ND	0.13	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.13	
67-64-1	**81552**	**Acetone**	**0.17**	**0.26**	**L,B**
75-15-0	77041	Carbon Disulfide	ND	0.39	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: 07599 (SB2117B1)
Sample Results Continued:

CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Reporting Limits (ug/gm)	Comments
78-93-3	81595	2-Butanone (MEK)	ND	0.52	
591-10-6	77103	2-Hexanone	ND	0.08	
108-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	0.08	
100-42-5	81708	Styrene	ND	0.13	
133-02-7	81551	Xylenes (total)	ND	0.13	
		1,2-Dibromoethane	ND	0.13	
		Tetrahydrofuran	ND	0.91	
		Ethyl ether	ND	0.39	
		Isopropylbenzene	ND	0.13	
		n-Propylbenzene	ND	0.13	
		1,3,5-Trimethylbenzene	ND	0.13	
		1,2,4-Trimethylbenzene	ND	0.13	
		sec-Butylbenzene	ND	0.13	
		para-Isopropyltoluene	ND	0.13	
		n-Butylbenzene	ND	0.13	
		Naphthlene	ND	0.13	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	ACCEPTABLE RANGE[2]
1,2-Dichloroethane,d4	109	63-145
Toluene,d8	94	76-116
1,4-Bromofluorobenzene	93	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
[1]=out of range
[2]=quality control acceptance criteria as per laboratory

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: 07598 (TB01)
FILE NAME(S): 09148F04
DATE OF COLLECTION: 9/10/98
DATE OF ANALYSIS: 9/10/98

DILUTION FACTOR(S): 1
PRESERVATION: Cool to 4 C

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	ppb Conc. (ug/L)	Reporting Limits (ug/L)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	5.00	
74-83-9	34413	Bromomethane	ND	5.00	
75-01-4	39175	Vinyl Chloride	ND	5.00	
75-00-3	34311	Chloroethane	ND	5.00	
75-09-2	34423	Methylene Chloride	ND	5.00	
75-69-4	34488	Trichlorofluoromethane	ND	5.00	
75-35-4	34501	1,1-Dichloroethylene	ND	5.00	
75-34-3	34496	1,1-Dichloroethane	ND	5.00	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	5.00	
67-66-3	32106	Chloroform	ND	5.00	
107-06-2	34531	1,2-Dichloroethane	ND	5.00	
71-55-6	34506	1,1,1-Trichloroethane	ND	5.00	
56-23-5	32102	Carbon Tetrachloride	ND	5.00	
75-27-4	32101	Bromodichloromethane	ND	5.00	
78-87-5	34541	1,2-Dichloropropane	ND	5.00	
10061-02-6	34699	t-1,3-Dichloropropene	ND	5.00	
79-01-6	39180	Trichloroethylene	ND	5.00	
124-48-1	32105	Dibromochloromethane	ND	5.00	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	5.00	
79-00-5	34511	1,1,2-Trichloroethane	ND	5.00	
71-43-2	34030	Benzene	ND	5.00	
75-25-2	32104	Bromoform	ND	5.00	
127-18-4	34475	Tetrachloroethylene	ND	5.00	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	5.00	
108-88-3	34010	Toluene	ND	5.00	
108-90-7	34301	Chlorobenzene	ND	5.00	
100-41-4	34371	Ethylbenzene	ND	5.00	
		Dichlorobenzene isomers	ND	5.00	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	5.00	
67-64-1	81552	Acetone	ND	10.00	
75-15-0	77041	Carbon Disulfide	ND	15.00	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: 07598 (TB01)
Sample Results Continued:

CAS NO.	STORET NO.	Compound	ppb Conc. (ug/L)	Reporting Levels (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	20.00	
591-10-6	77103	2-Hexanone	ND	3.00	
108-10-1	81596	4-Methyl-2-Pentanone (MIBK)	ND	3.00	
100-42-5	81708	Styrene	ND	5.00	
133-02-7	81551	Xylenes (total)	ND	5.00	
		1,2-Dibromoethane (EDB)	ND	5.00	
		Tetrahydrofuran	ND	35.00	
		Ethyl ether	ND	15.00	
		Isopropylbenzene	ND	5.00	
		n-Propylbenzene	ND	5.00	
		1,3,5-Trimethylbenzene	ND	5.00	
		1,2,4-Trimethylbenzene	ND	5.00	
		sec-Butylbenzene	ND	5.00	
		para-Isopropyltoluene	ND	5.00	
		n-Butylbenzene	ND	5.00	
		Naphthlene	ND	5.00	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:		Observed Recoveries	ACCEPTABLE RANGE[2]
	1,2-Dichloroethane,d4	111	63-145
	Toluene,d8	98	76-116
	1,4-Bromofluorobenzene	98	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
[1]=out of range
[2]=quality control acceptance criteria as per laboratory

benchsheets correct?
(✓ Is there documentation of standard preparation and traceability?
(✓ Are blank contaminants within limits? If outside limits, is there documented approval to proceed with analysis?
(✓ Are matrix spike recoveries and RPDs within limits?
(✓ Are surrogate recoveries/IS areas within limits? Do samples require reanalysis?
(✓ Are BFB tunes acceptable?
( ) Are initial and continuing calibrations acceptable? Spotcheck RRF from raw data. Check all outliers.
(✓ If required, were all samples analyzed within 12 hr of BFB?
(✓ Have samples been processed with updated response factors? Check quantitation time on raw data.
(✓ Are the calculations correct? Document with a sample calculation from raw data to final concentration (The reviewer initials and dates calculation.)
- ( ) Dry weight
- (✓ Report factors
- (✓ Sample concentrations
- (✓ Are the concentrations of the compounds found within calibration range?

(✓ Do duplicate analyses have similar results? → Field dup.
Reviewed by: Nancy M Bandrea Date Reviewed: 9/23/98

==========

FINAL REPORT

(✓ Check the following information on the report accuracy.
- (✓ Sample IDs
- (✓ Date sampled(collected)
- (✓ Date received
- (✓ Date analyzed
- (✓ Sample weight
- (✓ % Moisture
- (✓ Extract dilution factor
- (✓ Reporting Limit (R.L.)
- (✓ Scaling factor
- (✓ Flags
- (✓ pH for water sample

07680 weight incorrect recalculated.

(✓ Is the method summary an accurate reflection of all encountered problems? Are observations about the samples noted? Are method blank contaminants mentioned?
(✓ Are the number of significant figures used correctly and consistently?
(✓ Has the final report been checked for transcription errors?
Reviewed by: Agnes Van Loopenhue Date Reviewed: 3/0 9/23/98
AVL

==========

Comments:

Project Review Form
VOA Analyses by GC/MS

Project Number 98720 **Site** NWIRP

Note: Any omissions or problems with the data require resolution before proceeding to the next review step.

==========

REQUESTED ANALYSIS AND DATA FOLDER COMPLETENESS CHECK

(✓) Does the RLIMS information match the COC requests?

(✓) Were all samples analyzed and identified correctly?

(✓) Have the samples been analyzed according to the referenced method or SOP? Are all deviations approved and documented?

(✓) Is the raw data folder complete?
- ~~(✓) Tracking form~~
- (✓) Sample Disposal Document
- (✓) Project and report form
- (✓) Copy of the Chain-of-Custody Form
- (✓) Soil extraction summary sheet for dry weight calculation
- (✓) Laboratory notebook form
- ( ) GC screening data (if applicable)
- (✓) BFB tunes - summary and raw data
- (✓) Initial and continuing calibrations - summarizations and raw data for all associated calibrations
- (✓) Sample sequence list
- ( ) Copy of instrument run log
- (✓) ID list with updated RFs
- (✓) Quant sheets for samples, reprocessed after manual checks (Initialled and dated by analyst)
- (✓) Extended GC/MS reports and TICs for samples
- (✓) GC/MS quantitation worksheet
- (✓) Surrogate and matrix spike recovery table
- (✓) Internal standard area table

Reviewed by: [signature] Date Reviewed: 9/18/98

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DATA EVALUATION

(✓) Have the proper number of QC samples been analyzed?
- (✓) Blanks
- ( ) MS/MSD
- ( ) Duplicates 1 set of field dups
- ( ) PE Samples

(✓) Is the information on the medium level soil extraction

US EPA REGION 1
SOIL EXTRACTIONS
SUMMARY SHEET

SURVEY NAME: NWIRP ANALYST: [illegible] AQC: DB

PROJECT #: 98720 DATE: 9/14/98 AQC DATE: 9/23/98

BALANCE CHECK (± 0.2%): OVEN TEMP (110 C):

SAMPLE NO.	07597 SB217A1	07600 SB217B1	07599 SB217B1	07597 MS/MSD SB217A	Method Blank				
PAN WT	1.269	1.274							
TOTAL NET WT	7.049	5.235							
NET WET WT	5.780	3.961							
TOTAL DRY WT	6.721	4.816							
NET DRY WT	5.452	3.542							
% SOLIDS	94	89	89		100				
SAMPLE WET WT	5.961	6.024	5.383	6.272	4.098				
SAMPLE DRY WT	5.623	5.387	4.814		4.098				
% MOIST	6	11	11		0				
pH WET WT									
pH VOL									
pH WATER									
pH SAMPLE									

COMMENTS: 9/14/98

Balance # 930284
Class "S" weights - Troemner SN: 09503
0 = 0.000g
2g = 2.001g
5g = 5.000g
10g = 10.001g
0 = 0.000g

9/17/98

0 = 0.000g
2g = 2.000g
5g = 5.001g
10g = 10.000g
0 = 0.000g

NOTE: 07599 is a Field Dup. of 07600. Dry wt. Determination Data From 07600.

EPA-New England
Project and Request Form

SURVEY NAME: NAVAL WEAPONS INO RESERVE PLAN

DATE: 09/10/98

PROJECT NUMBER: 98720

DATE LOGGED IN: 09/10/98

MATRIX: SOIL

DUE DATE: 10/01/98

ANALYST:

ACCT NO: TFAX01R8LA00

PARAMETER: VOA_LL

METHOD: VOA SOLL2.MS

REQUESTING ANALYSIS: PATTY MARAJH-WHITTEMORE

SAMPLE NUMBERS: 07597
07599
07600

QUALITY CONTROL:
LAB BLANK:
DUPLICATE:
MATRIX:
MATRIX SPIKE SOLUTION:
MATRIX SPIKE VOLUME:
SURROGATES:
SURROGATE SOLUTION:
SURROGATE VOLUME:
QUALITY CONTROL SAMPLE:
MISCELLANEOUS:
NOTES:

REPORT INFORMATION:
DATE OF REPORT:
FILE NAME:
LOTUS FORMAT:
WORDPROCESSING FORMAT:
REQUESTING REPORT:
ANALYSTS:
DATE OF ANALYSIS:

NOTES:

EPA-New England
Project and Request Form

SURVEY NAME: NAVAL WEAPONS INO RESERVE PLAN

DATE: 09/10/98

PROJECT NUMBER: 98720

DATE LOGGED IN: 09/10/98

MATRIX: WATER

DUE DATE: 10/01/98

ANALYST:

ACCT NO: TFAX01R8LA00

PARAMETER: VOA_LL

METHOD: VOA WALL1.MS

REQUESTING ANALYSIS: PATTY MARAJH-WHITTEMORE

SAMPLE NUMBERS: 07598

QUALITY CONTROL:
- LAB BLANK:
- DUPLICATE:
- MATRIX:
  - MATRIX SPIKE SOLUTION:
  - MATRIX SPIKE VOLUME:
- SURROGATES:
  - SURROGATE SOLUTION:
  - SURROGATE VOLUME:
- QUALITY CONTROL SAMPLE:
- MISCELLANEOUS:

NOTES:

REPORT INFORMATION:
- DATE OF REPORT:
- FILE NAME:
- LOTUS FORMAT:
- WORDPROCESSING FORMAT:
- REQUESTING REPORT:
- ANALYSTS:
- DATE OF ANALYSIS:

NOTES:

ENVIRONMENTAL PROTECTION AGENCY

REGION 1

CHAIN OF CUSTODY RECORD

PROJ. NO.: 98720

PROJECT NAME: NWIRP Bedford, MA

SAMPLERS: (Signature) J. Zimmerman, J. Montanaro

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC (8260) mid-level Soil	VOC (8260) ATB					REMARKS EPA Number
SB217A1	9/10/98	1425		✓	14-16'	2	✓						Ø7597
SB217B1	9/10/98	1500		✓	16-18'	2	✓						Ø76ØØ
SB217B1	9/10/98	1500		✓	Dupe of 16-18'	1	✓						Ø7599
TBØ1	9/10/98	1300		✓	Trip Blank	2		1					Ø7598

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
John Zimmerman	9/10/98 1600				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			9/10/98 1610		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

1-10026

B:11

Joe

EPA-NEW ENGLAND
Region I
Office of Site Remediation and Restoration
90 Canal Street, Boston, MA 02203

DATE: August 21, 1998

SUBJ: Request for Assistance

George Horvath - 610-989-9400 x-117

FROM: Patty Marajh-Whittemore

THRU: Mary Sanderson, Chief, Federal Facilities Superfund Section

TO: Robert Maxfield, Chief, Investigation and Analysis

I. Project Name Naval Weapons Industrial Reserve Plant (NWIRP), Bedford, MA.

II. Program/Element Number Federal Facilities Superfund Section/**(98 T 01R YPX 01R8LW01)**

III. Project Manager & Telephone # Patty Marajh-Whittemore 223-5582

IV. Services Requested (circle requested activities)

Activity	Type	Date Required By
A. Sampling		
B. Analysis	*Volatiles* 5 Aqueous (Method 8260 + MTBE) 3 Soil (Method 5035 and 8260 + MTBE)	**Sept.1 through Sept.11**
C. Audit		Soil - 2 9/9
D. Report Review		Soil - 2 9/18
E. Data Validation		Water - 5 10/1

V. Project Summary

A. Purpose: Superfund - Supplemental RI at NWIRP: Verify groundwater and soil contamination (Samples are split with the Navy). Soil samples being collected with the EnCore™ sampling device (Method 5035). Laboratory required to have sample extruder.

B. Use of Data: (i.e., validation of quality of Navy's laboratory (split samples)

C. Health/Safety Concerns:
BTEX and Chlorinated VOCs expected in groundwater and soil.

D. Attach draft DQOs and relevant information (RI/FS):
Samples being collected by Navy's contractor (ENSR). EPA split samples will be collected by EPA contractor Dynamac Corporation (POC - George Horvat 610-989-9400 ext. 117). Soil samples are being collected using the EnCore™ sampling device eliminating the need to preserve soil samples with methanol in the field. The laboratory would be required to have sample extruder to analyze the soil sample.

EPA REGION I VOA SOIL SAMPLE EXTRACTION WORKSHEET

PROJECT: NWIRP (Preweighed Vials) PROJECT #: 98720

BALANCE ID: 930284 ANALYST: [illegible]

BALANCE CHECK: Troemner "S" weights SN: 09503 DATE: 9/9/98 / 9/14/98

0 grams = 0.000 grams 50 grams = 50.001 grams → 9/14/98

5 grams = 5.000 grams 0 grams = 0.000 grams

10 grams = 10.001 grams 10 grams = 10.001 grams

50 grams = 50.001 grams

M007/M008 weight "Faild Fixed" - MeOH -

SAMPLE ID	VIAL WEIGHT (grams)	WET SAMPLE + VIAL WEIGHT (grams)	WET SAMPLE WEIGHT (grams)	% SOLIDS	DRY SAMPLE WEIGHT (grams)	COMMENTS
W001	31.497					07596 } this Sample not Logged in!
W002	31.382					07596 }
W003	31.402					~~07600~~ ~ 07597
W004	31.517					~~07600~~ ~ 07597
W005	31.504					07600
W006	31.481					07600
M007	30.042					~~07597~~ ~ 07596
M008	30.112	35.452	5.340	94	5.020	~~07600~~ ~ 07597
M009	30.084	35.376	5.292	89	4.710	07600

Spike Reference: _____

Page 1 of 1

only samples 07597FF and 07600FF analyzed!

EPA REGION 1
VOA SAMPLE EXTRACTION & DILUTION WORKSHEET

PROJECT NAME: **PN:**

BALANCE #: **ANALYST:**

BALANCE CHECK: **DATE:**

SAMPLE #:	MATRIX	H20 SOLUBILITY	WET WEIGHT	% SOLIDS	VOLUME	PH	DILUTIONS		
07598TB	water	—	—	—	5ml Purge	<2	1		
07597	Soil	—	5.961	94	5ml MeOH		25		
07599	Soil	—	5.383	89	5ml MEOH		25		
07600	Soil	—	6.024	89	5ml MeOH		25		
07597 MS	Soil	—	6.272	94	5ml MeOH		25		
07597 MSD	Soil	—	6.272	94	5ml MeOH		25		

4/97 kj

GC QUANTITATION SHEET

AMPLE NUMBER: LAB Blank
ATA FILE ID: 0914gF03
NALYSTS: ~
ATE: 9/14/98

Amt. Ext: 5 ml Purge
pH: 7
% Moisture:

AQC: DB
AQC DATE: 9/23/98
Report Dilution Factor: 1
Matrix: water

OMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
hloromethane								
romomethane								
inyl Chloride								
hloroethane								
richlorofluoromethane								
thyl ether								
creolin								
-Propanone (acetone)	6.13	7.20	1	10	7	L		
,1,2-Trichloro-1,2,2-								
triflouroethane								
,1-Dichloroethylene								
arbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane								
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

GC QUANTITATION SHEET

MPLE NUMBER:
TA FILE ID:
ALYSTS:
TE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

OMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
,1-Dichloropropene								
richloroethylene								
,2 Dichloropropane								
romodichloromethane								
ibromomethane								
-Chloroethylvinylether								
-Methyl-2-Pentanone(MIBK)								
,3-Dichloropropane								
etrachloroethylene								
,2-Dibromomethane								
-Hexanone								
,1,1,2-Tetrachloroethane								
thylbenzene								
ETA/ PARA XYLENE								
rtho Xylene								
tyrene								
BROMOFORM								
,1,2,2-Tetrachloroethane								
sopropylbenzene (ben1,meth)								
Bromobenzene								
,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene								
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								103
Toluene-D8								94
1,4-Bromoflourobenzene								91

TIR
12/02

Qualifiers: E, L B, J

quantdsw.wpd

GC QUANTITATION SHEET

0.15
(0.03)

AMPLE NUMBER: method Blank
ATA FILE ID: 09148F05
NALYSTS: n
ATE: 9/14/98

Wet Amt Ext: 4.098 gm
Dry Amt. Ext: 4.098 gm
pH:
% Moisture: 0
% Dry: 100

AQC: OB
AQC DATE: 9/23/98
Report Dilution Factor: 25X
Matrix: Diatomaceous Earth (sand)

OMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
hloromethane								
Bromomethane								
Vinyl Chloride								
hloroethane								
Trichlorofluoromethane								
Ethyl ether								
Acreolin								
2-Propanone (acetone)	6.25	5.44	25X	0.30	0.17	L,B		
1,1,2-Trichloro-1,2,2-trifluoroethane								
1,1-Dichloroethylene								
Carbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane								
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

GC QUANTITATION SHEET

MPLE NUMBER:
TA FILE ID:
ALYSTS:
TE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

OMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
,1-Dichloropropene								
richloroethylene								
,2 Dichloropropane								
romodichloromethane								
ibromomethane								
-Chloroethylvinylether								
-Methyl-2-Pentanone(MIBK)								
,3-Dichloropropane								
etrachloroethylene								
,2-Dibromomethane								
-Hexanone								
,1,1,2-Tetrachloroethane								
thylbenzene								
META/ PARA XYLENE								
rtho Xylene								
tyrene								
BROMOFORM								
1,1,2,2-Tetrachloroethane								
sopropylbenzene (ben1,meth)								
Bromobenzene								
1,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene								
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								95
Toluene-D8								105
1,4-Bromoflourobenzene								94

TIC

none

R.L.

$$\frac{(5ml)(25)(5\mu g/L)}{(4.898g)(1000ml/L)} = \boxed{0.15\ \mu g/g}$$

(0.03)

Qualifiers: E, L B, J

quantdsw.wpd

GC QUANTITATION SHEET

AMPLE NUMBER: 07597
ATA FILE ID: 09148F06
NALYSTS: ~
ATE: 9/14/98

Wet Amt. Ext: 5.961 gm
Dry Amt. Ext: 5.623 gm
pH:
% Moisture: 6
% Dry: 94

AQC: DB
AQC DATE: 9/23/98
Report Dilution Factor: 25
Matrix: Soil

0.11
(0.022)

COMPOUND	Ret. Time	Obs Conc.	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
	min	µg/L						
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Trichlorofluoromethane								
Ethyl ether								
Acreolin								
2-Propanone (acetone)								
1,1,2-Trichloro-1,2,2-								
triflouroethane								
1,1-Dichloroethylene								
Carbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane								
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
,1-Dichloropropene								
Trichloroethylene								
,2 Dichloropropane								
Bromodichloromethane								
Dibromomethane								
2-Chloroethylvinylether								
4-Methyl-2-Pentanone(MIBK)								
1,3-Dichloropropane								
Tetrachloroethylene								
1,2-Dibromomethane								
2-Hexanone								
1,1,1,2-Tetrachloroethane								
Ethylbenzene								
META/ PARA XYLENE								
Ortho Xylene								
Styrene								
BROMOFORM								
1,1,2,2-Tetrachloroethane								
Isopropylbenzene (ben1,meth)								
Bromobenzene								
1,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene								
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								119
Toluene-D8								92
1,4-Bromoflourobenzene								96

TIC

None

R.L.

$$\frac{(5ml)(25)(5ug/L)}{(5.623g)(1000ml/L)} = \boxed{0.11\ ug/g}$$

(0.022)

Qualifiers: E, L B, J

quantdsw.wpd

GC QUANTITATION SHEET

AMPLE NUMBER: 07599
ATA FILE ID: 09140F08
NALYSTS: a
ATE: 9/14/98

5.383 gms
Wet Amt. Ext: ~~4.81~~ in
Dry Amt. Ext: 4.814 gms
pH:
% Moisture: 11
% Dry: 89

AQC: DB
AQC DATE: 9/23/98
Report Dilution Factor: 25X
Matrix: Soil

0.13
(0.026)

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Trichlorofluoromethane								
Ethyl ether								
Acreolin								
2-Propanone (acetone)	6.26	5.69	25	0.26	0.17	4.B		
1,1,2-Trichloro-1,2,2-								
triflouroethane								
1,1-Dichloroethylene								
Carbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane								
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time	Obs Conc.	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
	min	µg/L						
1,1-Dichloropropene								
Trichloroethylene								
1,2 Dichloropropane								
Bromodichloromethane								
Dibromomethane								
2-Chloroethylvinylether								
4-Methyl-2-Pentanone(MIBK)								
1,3-Dichloropropane								
Tetrachloroethylene								
1,2-Dibromomethane								
2-Hexanone								
1,1,1,2-Tetrachloroethane								
Ethylbenzene								
META/ PARA XYLENE								
Ortho Xylene								
Styrene								
BROMOFORM								
1,1,2,2-Tetrachloroethane								
Isopropylbenzene (ben1,meth)								
Bromobenzene								
1,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene								
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								109
Toluene-D8								94
1,4-Bromoflourobenzene								93

TIZ
none

R.L.

$$\frac{(5ml)(25)(5ug/L)}{(4.814g)(1000ml/L)} = \boxed{0.13\ ug/g} \quad (0.026)$$

Qualifiers: E, L B, J

quantdsw.wpd

GC QUANTITATION SHEET

AMPLE NUMBER: 07600
ATA FILE ID: 09148F07
NALYSTS: ~
ATE: 9/14/98

Wet Amt Ext: ~~4.816~~ 6.024 gm
Dry Amt. Ext: ~~3.542~~ gm
pH: 5.387
% Moisture: 11
% Dry: 89

AQC: DB
AQC DATE: 9/23/98
Report Dilution Factor: 5
Matrix: Soil

0.12
~~0.18~~
~~(0.036)~~
(0.024)

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Trichlorofluoromethane								
Ethyl ether								
Acreolin				0.24	0.13			
2-Propanone (acetone)	4.28	5.69	25	~~0.35~~	0.20	LB		
1,1,2-Trichloro-1,2,2-triflouroethane								
1,1-Dichloroethylene								
Carbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane								
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

9/23/98

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

OMPOUND	Ret.	Obs	Dil	Rept.	Rept	Qua	Range	Notes
	Time	Conc.		Limit	Conc.			
	min	µg/L						
,1-Dichloropropene								
Trichloroethylene								
,2 Dichloropropane								
Bromodichloromethane								
Dibromomethane								
2-Chloroethylvinylether								
4-Methyl-2-Pentanone(MIBK)								
1,3-Dichloropropane								
Tetrachloroethylene								
1,2-Dibromomethane								
2-Hexanone								
1,1,1,2-Tetrachloroethane								
Ethylbenzene								
META/ PARA XYLENE								
Ortho Xylene								
Styrene								
BROMOFORM								
1,1,2,2-Tetrachloroethane								
Isopropylbenzene (ben1,meth)								
Bromobenzene								
1,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

AMPLE NUMBER:
DATA FILE ID:
ANALYSTS:
DATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene								
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								105
Toluene-D8								104
1,4-Bromoflourobenzene								100

Tics

None

R.L.

$$\frac{(5\,ml)(25)(5\,\mu g/L)}{(\cancel{3.542}\ 5.387\,g)(1000\,ml/L)} = \boxed{0.12\,\mu g/g}$$

$\boxed{\cancel{0.18\,\mu g/g}}$

$\cancel{(0.036)}$

Qualifiers: E, L B, J

quantdsw.wpd

GC QUANTITATION SHEET

AMPLE NUMBER: 07598 - Trip Blank
ATA FILE ID: 09140F04
NALYSTS: [illegible]
ATE: 9/14/98

Amt. Ext: 5 ml Purge
pH: <2
% Moisture:

AQC: OB
AQC DATE: 9/23/98
Report Dilution Factor: 1
Matrix: water

OMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
hloromethane								
romomethane								
inyl Chloride								
hloroethane								
richlorofluoromethane								
thyl ether								
creolin								
-Propanone (acetone)								
,1,2-Trichloro-1,2,2-triflouroethane								
,1-Dichloroethylene								
arbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane								
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

GC QUANTITATION SHEET

MPLE NUMBER:
TA FILE ID:
ALYSTS:
TE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

OMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
,1-Dichloropropene								
richloroethylene								
,2 Dichloropropane								
romodichloromethane								
ibromomethane								
-Chloroethylvinylether								
-Methyl-2-Pentanone(MIBK)								
,3-Dichloropropane								
etrachloroethylene								
,2-Dibromomethane								
-Hexanone								
,1,1,2-Tetrachloroethane								
thylbenzene								
ETA/ PARA XYLENE								
rtho Xylene								
tyrene								
ROMOFORM								
,1,2,2-Tetrachloroethane								
sopropylbenzene (ben1,meth)								
Bromobenzene								
,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene								
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								111
Toluene-D8								98
1,4-Bromoflourobenzene								98

TKS
none

Qualifiers: E, L B, J

quantdsw.wpd

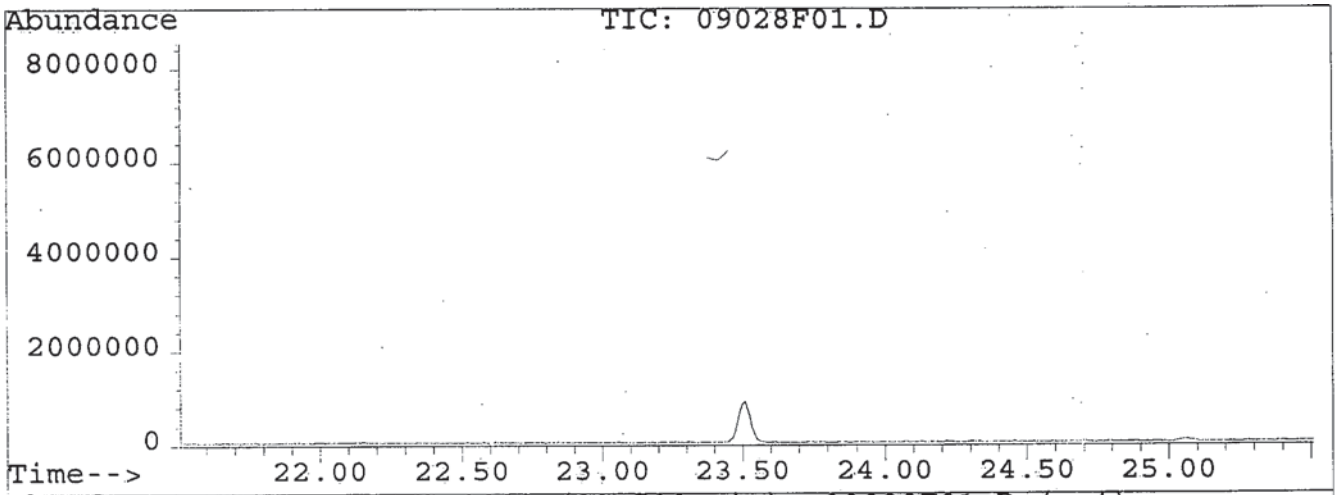
Initial Calibration

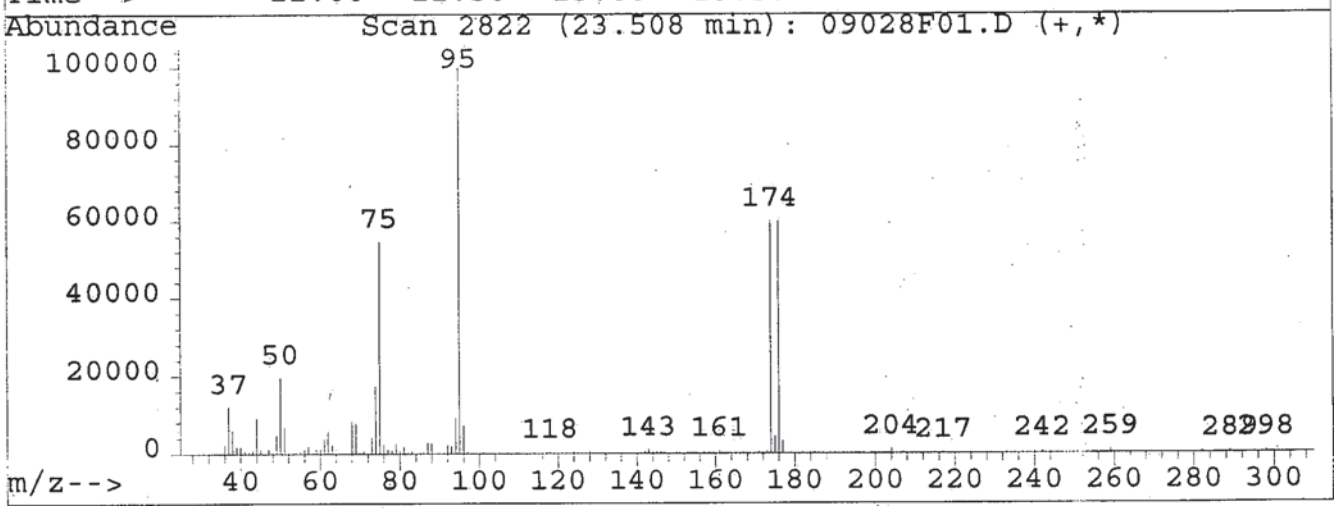
BFB.524

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F01.D
Acq On : 2 Sep 98 08:31
Sample : LAB BLANK
Misc :

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\07228DWU.M
Title : VOA Standards for 5 point calibration





Peak Apex is scan: : Scan 2822 (23.508 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	19771	PASS
75	95	30	60	54.9	54924	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.3	7328	PASS
173	174	0	2	1.4	828	PASS
174	95	50	100	60.3	60255	PASS
175	174	5	9	7.4	4450	PASS
176	174	95	101	99.7	60059	PASS
177	176	5	9	5.7	3403	PASS

09028F01.D 07228DWU.M Wed Sep 02 09:20:13 1998

Response Factor Report Finnigan

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Initial Calibration

Calibration Files
1 =09028F02.D 2 =09028F04.D 3 =09028F05.D
4 =09028F06.D 5 =09028F03.D

		Compound	1	2	3	4	5	Avg	%RSD
1)		Pentafluorobenzene	----------ISTD----------						
2)	s	1,2-Dichloroethane-D4	0.829	0.905	0.844	0.841	0.862	0.9	3.47
3)		Chloromethane	1.332	1.368	1.346	1.502	1.186	1.3	8.35
4)		Vinyl Chloride	1.234	1.324	1.353	1.487	1.263	1.3	7.40
5)		Bromomethane	0.499	0.496	0.522	0.623	0.508	0.5	10.04
6)		Chloroethane	0.678	0.805	0.839	0.868	0.753	0.8	9.55
7)		Trichlorofluoromethan	1.018	1.208	1.183	1.249	1.038	1.1	9.16
8)		Ethyl Ether	0.725	0.702	0.764	0.765	0.679	0.7	5.20
9)		Acreolin	0.161	0.174	0.165	0.176	0.160	0.2	4.63
10)		2-Propanone (acetone)	0.275	0.275	0.242	0.240	0.299	0.3	9.44
11)		1,1,2-Trichloro-1,2,2	0.420	0.457	0.486	0.546	0.494	0.5	9.68
12)		1,1-Dichloroethylene	0.712	0.696	0.681	0.690	0.624	0.7	4.92
13)		Carbon Disulfide	2.865	2.882	2.814	2.771	2.622	2.8	3.72
14)		Dichlorodifluorometha	0.546	0.605	0.599	0.624	0.503	0.6	8.65
15)		Methylene Chloride	0.856	0.914	0.895	0.902	0.853	0.9	3.12
16)		Acrylonitrile	0.382	0.373	0.389	0.379	0.387	0.4	1.71
17)		Methyl-t-Butyl Ether	2.557	2.735	2.652	2.627	2.608	2.6	2.48
18)		Trans-1,2-Dichloroeth	0.668	0.829	0.767	0.735	0.682	0.7	8.91
19)		1,1-dichloroethane	1.126	1.348	1.314	1.413	1.227	1.3	8.68
20)		Vinyl Acetate	0.190	0.185	0.173	0.194	0.181	0.2	4.42
21)		2-Butanone (MEK)	0.390	0.369	0.394	0.399	0.371	0.4	3.58
22)		2,2-Dichloropropane	0.878	1.048	1.068	1.138	1.034	1.0	9.24
23)		cis-1,2-Dichloroethyl	0.612	0.701	0.692	0.701	0.628	0.7	6.48
24)		Chloroform	1.073	1.184	1.162	1.178	1.167	1.2	3.93
25)		Bromochloromethane	0.284	0.309	0.315	0.338	0.255	0.3	10.55
26)		Tetrahydrofuran	0.062	0.063	0.065	0.070	0.070	0.1	5.61
27)		1,1,1-Trichloroethane	0.851	0.878	0.883	0.919	0.878	0.9	2.72
28)		1,4-Difluorobenzene	----------ISTD----------						
29)	s	Toluene-D8	1.106	1.123	1.137	1.118	1.134	1.1	1.10
30)		1,2-Dichloroethane	0.537	0.616	0.629	0.633	0.629	0.6	6.69
31)		Carbon tetrachloride	0.291	0.362	0.375	0.395	0.330	0.4	11.68
32)		Benzene	1.591	1.522	1.501	1.508	1.525	1.5	2.33
33)		Fluorobenzene	0.133	0.030	0.010	0.006	8.289	1.7	217.75
34)		c-1,3-dichloropropene	0.565	0.611	0.648	0.682	0.517	0.6	10.79
35)		Toluene	1.333	1.454	1.449	1.551	1.347	1.4	6.26
36)		t-1,3-Dichloropropene	0.491	0.533	0.599	0.621	0.470	0.5	12.12
37)		1,1,2-Trichloroethane	0.210	0.266	0.286	0.295	0.230	0.3	14.15
38)		Dibromochloromethane	0.169	0.196	0.229	0.227	0.169	0.2	14.99
39)		Chlorobenzene	0.488	0.549	0.596	0.633	0.599	0.6	9.78
40)		Chlorobenzene-D5	----------ISTD----------						

(#) = Out of Range

Response Factor Report Finnigan

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Initial Calibration

Calibration Files
1 =09028F02.D 2 =09028F04.D 3 =09028F05.D
4 =09028F06.D 5 =09028F03.D

		Compound	1	2	3	4	5	Avg	%RSD
41)	s	1,4-Bromofluorobenzen	0.553	0.543	0.552	0.591	0.582	0.6	3.69
42)		1,1-Dichloropropene	0.602	0.584	0.556	0.621	0.531	0.6	6.20
43)		Trichloroethylene	0.337	0.363	0.382	0.393	0.346	0.4	6.46
44)		1,2-Dichloropropane	0.391	0.453	0.432	0.481	0.386	0.4	9.47
45)		Bromodichloromethane	0.444	0.488	0.520	0.572	0.475	0.5	9.71
46)		Dibromomethane	0.194	0.208	0.244	0.259	0.238	0.2	11.61
47)		2-Chloroethylvinyleth	0.130	0.151	0.144	0.160	0.129	0.1	9.47
48)		4-Methyl-2-Pentanone(	0.501	0.469	0.532	0.555	0.434	0.5	9.69
49)		1,3-Dichloropropane	0.596	0.746	0.760	0.774	0.661	0.7	10.77
50)		Tetrachloroethylene	0.290	0.365	0.340	0.346	0.315	0.3	8.78
51)		1,2-Dibromomethane	0.254	0.313	0.344	0.359	0.326	0.3	12.77
52)		2-Hexanone	0.264	0.302	0.301	0.321	0.294	0.3	6.91
53)		1,1,1,2-Tetrachloroet	0.256	0.292	0.309	0.338	0.266	0.3	11.32
54)		Ethylbenzene	1.794	1.694	1.782	1.808	1.681	1.8	3.41
55)		META/PARA XYLENE	0.677	0.632	0.652	0.686	0.630	0.7	3.89
56)		Ortho Xylene	0.614	0.596	0.628	0.674	0.531	0.6	8.59
57)		Styrene	1.002	1.013	1.099	1.173	0.968	1.1	7.94
58)		BROMOFORM	0.152	0.143	0.187	0.208	0.184	0.2	15.30
59)		1,1,2,2-Tetrachloroet	0.435	0.425	0.485	0.516	0.422	0.5	9.10
60)		1,4-Dichlorobenzene-D	----------ISTD----------						
61)		Isopropylbenzene(ben1	3.309	3.586	3.855	4.179	3.546	3.7	9.00
62)		Bromobenzene	0.679	0.760	0.800	0.896	0.657	0.8	12.73
63)		1,2,3-Trichloropropan	0.716	0.845	0.980	0.899	0.743	0.8	13.05
64)		N-Propylbenzene	4.425	4.885	5.046	5.249	4.369	4.8	8.05
65)		2-Chlorotoluene	0.684	0.778	0.829	0.885	0.670	0.8	12.02
66)		4-Chlorotoluene	2.645	2.953	2.999	3.121	2.804	2.9	6.34
67)		Tert-Butylbenzene(ben	2.138	2.525	2.615	2.802	2.312	2.5	10.46
68)		1,3,5-Trimethylbenzen	2.553	2.750	3.022	3.289	2.581	2.8	11.03
69)		1,2,4-Trimethylbenzen	2.560	2.788	3.122	3.370	2.658	2.9	11.66
70)		Sec-Butylbenzene(Ben-	3.154	3.816	3.969	4.163	3.558	3.7	10.50
71)		1,3-dichlorobenzene	1.216	1.499	1.582	1.681	1.401	1.5	12.07
72)		Para-Isopropyltoluene	2.138	2.525	2.615	2.802	2.312	2.5	10.46
73)		1,4-Dichlorobenzene	1.216	1.543	1.615	1.695	1.411	1.5	12.57
74)		1,2-Dichlorobenzene	1.218	1.418	1.487	1.635	1.344	1.4	10.97
75)		N-Butylbenzene	1.681	1.897	1.988	2.125	1.685	1.9	10.31
76)		1,2-Dibromo-3-Chlorop	0.141	0.143	0.170	0.188	0.156	0.2	12.26
77)		1,2,4-Trichlorobenzen	0.898	0.977	1.055	1.186	0.887	1.0	12.36
78)		Hexachlorobutadiene	0.466	0.443	0.427	0.474	0.350	0.4	11.38
79)		Naphthalene	2.185	2.469	2.784	2.970	2.221	2.5	13.67
80)		1,2,3-Trichlorobenzen	0.863	0.852	0.968	1.068	0.795	0.9	11.96

(#) = Out of Range

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D Vial: 3
Acq On : 2 Sep 98 09:25 Operator:
Sample : 5 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:33 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\JULY28\0728F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.80	168	842761	50.00 ug/l	-0.06 14.32%
28) 1,4-Difluorobenzene	13.07	114	1500005	50.00 ug/l	-0.06 14.74%
40) Chlorobenzene-D5	20.38	117	1308392	50.00 ug/l	-0.05 14.38%
60) 1,4-Dichlorobenzene-D4	26.54	152	622621	50.00 ug/l	-0.04 15.86%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.19	65	349423	25.38 ug/l	101.54%
29) Toluene-D8	16.63	98	829566	24.94 ug/l	99.75%
41) 1,4-Bromofluorobenzene	23.52	95	361991	25.44 ug/l	101.74%

Target Compounds					Qvalue
3) Chloromethane	3.33	50	112227	4.87 ug/l #	89
4) Vinyl Chloride	3.53	62	103966	5.10 ug/l	97
5) Bromomethane	4.36	94	42081	3.26 ug/l #	68
6) Chloroethane	4.53	64	57107	4.41 ug/l #	2
7) Trichlorofluoromethane	5.04	101	85818	4.86 ug/l	96
8) Ethyl Ether	5.68	45	183231	16.71 ug/l #	86
9) Acreolin	11.53	56	135293	52.57 ug/l #	92
10) 2-Propanone (acetone)	6.11	43	46377	10.03 ug/l m	99
11) 1,1,2-Trichloro-1,2,2-Trif	5.95	151	35414	4.12 ug/l	100
12) 1,1-Dichloroethylene	6.32	96	59975	5.47 ug/l #	79
13) Carbon Disulfide	7.34	76	724381	18.37 ug/l	100
14) Dichlorodifluoromethane	2.90	85	46053	4.02 ug/l #	39
15) Methylene Chloride	7.35	84	72165	4.90 ug/l	91
16) Acrylonitrile	7.64	53	160955	26.42 ug/l #	83
17) Methyl-t-Butyl Ether	7.73	73	215467	5.64 ug/l	96
18) Trans-1,2-Dichloroethylene	7.98	96	56280	5.07 ug/l #	1
19) 1,1-dichloroethane	8.92	63	94858	4.32 ug/l #	88
20) Vinyl Acetate	7.34	86	48157	15.66 ug/l #	1
21) 2-Butanone (MEK)	9.88	43	131563	18.95 ug/l #	92
22) 2,2-Dichloropropane	10.14	77	74009	4.44 ug/l #	48
23) cis-1,2-Dichloroethylene	10.24	96	51570	4.41 ug/l	82
24) Chloroform	10.59	83	90457	4.82 ug/l	91
25) Bromochloromethane	10.96	128	23968	4.38 ug/l m	39
26) Tetrahydrofuran	11.07	71	36619	30.71 ug/l	86
27) 1,1,1-Trichloroethane	11.48	97	71761	5.05 ug/l #	83
30) 1,2-Dichloroethane	12.40	62	80544	4.98 ug/l #	77

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D
Acq On : 2 Sep 98 09:25
Sample : 5 PPB
Misc :
Quant Time: Sep 3 14:33 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.06	117	43601	4.20 ug/l	#	70
32)	Benzene	12.44	78	238582	5.78 ug/l		100
34)	c-1,3-dichloropropene	16.06	75	84821	4.90 ug/l	#	56
35)	Toluene	16.83	91	199910	4.95 ug/l		99
36)	t-1,3-Dichloropropene	17.27	75	73621	5.02 ug/l		97
37)	1,1,2-Trichloroethane	17.65	83	31548	3.98 ug/l	#	77
38)	Dibromochloromethane	18.93	127	25342	4.07 ug/l	m	91
39)	Chlorobenzene	20.47	77	73258	4.46 ug/l	#	75
42)	1,1-Dichloropropene	11.83	75	78712	5.32 ug/l	#	82
43)	Trichloroethylene	13.82	95	44083	4.27 ug/l		97
44)	1,2-Dichloropropane	14.24	63	51218	4.41 ug/l	#	83
45)	Bromodichloromethane	14.78	83	58118	4.59 ug/l	#	96
46)	Dibromomethane	14.91	93	25386	3.91 ug/l	#	85
47)	2-Chloroethylvinylether	14.24	63	51218	13.22 ug/l		91
48)	4-Methyl-2-Pentanone(MIBK)	15.58	43	32793	2.72 ug/l	m	100
49)	1,3-Dichloropropane	18.26	76	77964	4.26 ug/l		96
50)	Tetrachloroethylene	18.41	166	37947	4.11 ug/l	#	91
51)	1,2-Dibromomethane	19.43	107	33172	3.77 ug/l		90
52)	2-Hexanone	17.67	43	21444	3.05 ug/l	#	46
53)	1,1,1,2-Tetrachloroethane	20.58	131	33466	4.51 ug/l	m	87
54)	Ethylbenzene	20.62	91	234667	6.00 ug/l		92
55)	META/PARA XYLENE	20.80	106	177178	11.71 ug/l		85
56)	Ortho Xylene	21.94	106	80295	5.22 ug/l		97
57)	Styrene	22.02	104	131060	5.06 ug/l	#	74
58)	BROMOFORM	22.89	173	19900	4.78 ug/l	m	66
59)	1,1,2,2-Tetrachloroethane	23.31	83	56964	5.16 ug/l	#	52
61)	Isopropylbenzene(ben1,meth	22.86	105	206051	4.86 ug/l		92
62)	Bromobenzene	24.02	156	42289	4.39 ug/l	#	84
63)	1,2,3-Trichloropropane	23.70	75	44596	4.41 ug/l	#	1
64)	N-Propylbenzene	23.91	91	275486	5.43 ug/l	#	90
65)	2-Chlorotoluene	24.38	126	42570	4.32 ug/l		85
66)	4-Chlorotoluene	24.49	91	164667	4.70 ug/l	m	97
67)	Tert-Butylbenzene(ben-1,1-	25.23	119	133105	4.57 ug/l		94
68)	1,3,5-Trimethylbenzene	24.33	105	158955	4.88 ug/l		94
69)	1,2,4-Trimethylbenzene	25.33	105	159387	4.80 ug/l		96
70)	Sec-Butylbenzene(Ben-1-Met	25.78	105	196356	4.64 ug/l		99
71)	1,3-dichlorobenzene	26.35	146	75720	4.00 ug/l		91
72)	Para-Isopropyltoluene(ben-	25.23	119	133105	4.57 ug/l	#	48
73)	1,4-Dichlorobenzene	26.35	146	75720	4.12 ug/l		93
74)	1,2-Dichlorobenzene	27.53	146	75865	4.42 ug/l		92
75)	N-Butylbenzene	25.23	91	104633	4.84 ug/l	#	43
76)	1,2-Dibromo-3-Chloropropan	29.42	75	8783	4.37 ug/l	m	0

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D
Acq On : 2 Sep 98 09:25
Sample : 5 PPB
Misc :
Quant Time: Sep 3 14:33 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.51	180	55941	4.59 ug/l m	94
78) Hexachlorobutadiene	31.81	225	28999	5.90 ug/l m	83
79) Naphthalene	32.12	128	136018	5.00 ug/l m	100
80) 1,2,3-Trichlorobenzene	32.70	180	53747	4.83 ug/l m	94

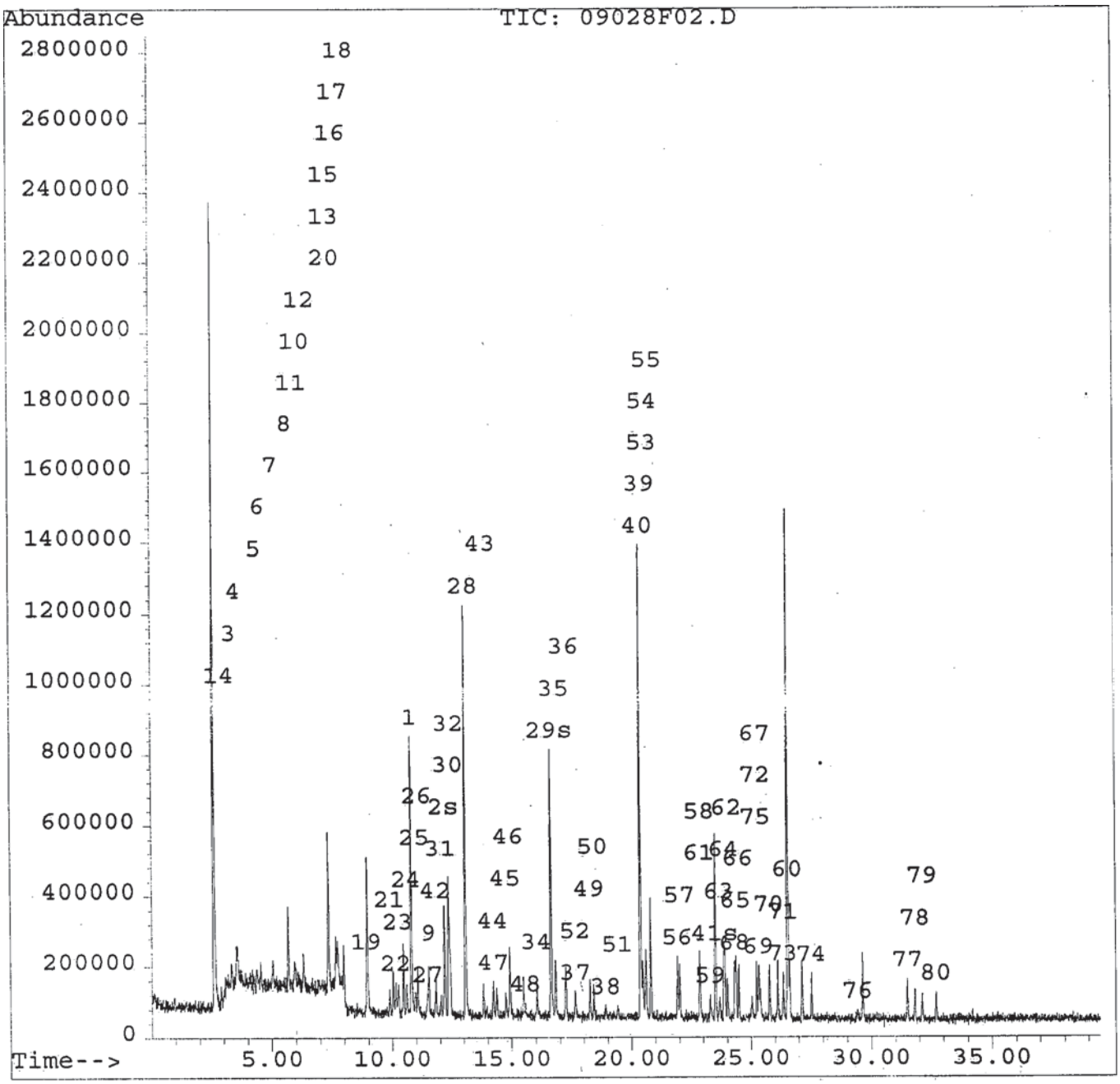
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D
Acq On : 2 Sep 98 09:25
Sample : 5 PPB
Misc :
Quant Time: Sep 3 14:33 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F03.D
Acq On : 2 Sep 98 10:20
Sample : 10 PPB
Misc :
Quant Time: Sep 3 14:37 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.81	168	848492	50.00 ug/l	0.00 100.68%
28) 1,4-Difluorobenzene	13.08	114	1540616	50.00 ug/l	0.00 102.71%
40) Chlorobenzene-D5	20.39	117	1426656	50.00 ug/l	0.00 109.04%
60) 1,4-Dichlorobenzene-D4	26.55	152	638785	50.00 ug/l	0.00 102.60%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.20	65	365790	26.34 ug/l	105.36%
29) Toluene-D8	16.64	98	873227	25.62 ug/l	102.46%
41) 1,4-Bromofluorobenzene	23.53	95	415009	26.72 ug/l	106.86%

Target Compounds					Qvalue
3) Chloromethane	3.33	50	201261	8.76 ug/l	93
4) Vinyl Chloride	3.53	62	214385	10.37 ug/l	99
5) Bromomethane	4.37	94	86222	7.34 ug/l m	99
6) Chloroethane	4.53	64	127731	9.93 ug/l #	63
7) Trichlorofluoromethane	5.06	101	176173	9.90 ug/l	100
8) Ethyl Ether	5.69	45	345752	30.94 ug/l #	77
9) Acreolin	11.54	56	270899	104.33 ug/l #	93
10) 2-Propanone (acetone)	6.11	43	101379	19.40 ug/l m	100
11) 1,1,2-Trichloro-1,2,2-Trif	5.98	151	83751	9.93 ug/l m	100
12) 1,1-Dichloroethylene	6.32	96	105921	9.46 ug/l	93
13) Carbon Disulfide	7.34	76	1334911	32.96 ug/l	100
14) Dichlorodifluoromethane	2.89	85	85282	7.56 ug/l	88
15) Methylene Chloride	7.37	84	144785	9.94 ug/l	95
16) Acrylonitrile	7.66	53	327996	53.02 ug/l #	85
17) Methyl-t-Butyl Ether	7.73	73	442632	11.35 ug/l	90
18) Trans-1,2-Dichloroethylene	7.99	96	115665	10.26 ug/l #	1
19) 1,1-dichloroethane	8.93	63	208268	9.64 ug/l #	94
20) Vinyl Acetate	7.37	86	92061	29.71 ug/l #	1
21) 2-Butanone (MEK)	9.89	43	251806	35.84 ug/l	97
22) 2,2-Dichloropropane	10.15	77	175499	10.61 ug/l #	77
23) cis-1,2-Dichloroethylene	10.26	96	106641	9.16 ug/l	91
24) Chloroform	10.60	83	198055	10.63 ug/l	94
25) Bromochloromethane	10.97	128	43277	8.38 ug/l #	77
26) Tetrahydrofuran	11.08	71	83655	71.40 ug/l	76
27) 1,1,1-Trichloroethane	11.49	97	148917	10.29 ug/l #	88
30) 1,2-Dichloroethane	12.42	62	193944	11.86 ug/l #	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F03.D
Acq On : 2 Sep 98 10:20
Sample : 10 PPB
Misc :
Quant Time: Sep 3 14:37 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Carbon tetrachloride	12.05	117	101551	9.82	ug/l		82
32)	Benzene	12.45	78	469787	11.06	ug/l		100
34)	c-1,3-dichloropropene	16.06	75	159351	8.96	ug/l		96
35)	Toluene	16.84	91	415123	10.11	ug/l		97
36)	t-1,3-Dichloropropene	17.27	75	144841	9.48	ug/l		93
37)	1,1,2-Trichloroethane	17.66	83	70899	9.03	ug/l	#	82
38)	Dibromochloromethane	18.93	127	51939	8.40	ug/l		86
39)	Chlorobenzene	20.49	77	184591	11.23	ug/l		91
42)	1,1-Dichloropropene	11.84	75	151537	9.33	ug/l	#	83
43)	Trichloroethylene	13.83	95	98829	9.11	ug/l	#	71
44)	1,2-Dichloropropane	14.23	63	110119	8.99	ug/l	#	99
45)	Bromodichloromethane	14.79	83	135640	10.01	ug/l	#	84
46)	Dibromomethane	14.91	93	67887	10.18	ug/l		95
47)	2-Chloroethylvinylether	14.23	63	110119	26.96	ug/l		93
48)	4-Methyl-2-Pentanone(MIBK)	15.59	43	61987	5.09	ug/l	#	100
49)	1,3-Dichloropropane	18.27	76	188645	9.79	ug/l		96
50)	Tetrachloroethylene	18.43	166	89826	9.36	ug/l		98
51)	1,2-Dibromomethane	19.45	107	93090	10.08	ug/l		90
52)	2-Hexanone	17.68	43	52797	6.95	ug/l	#	95
53)	1,1,1,2-Tetrachloroethane	20.59	131	76013	9.89	ug/l	m	95
54)	Ethylbenzene	20.62	91	479601	11.00	ug/l		99
55)	META/PARA XYLENE	20.82	106	359433	21.31	ug/l		91
56)	Ortho Xylene	21.93	106	151514	8.91	ug/l		88
57)	Styrene	22.03	104	276295	9.82	ug/l		89
58)	BROMOFORM	22.91	173	52609	11.79	ug/l	m	95
59)	1,1,2,2-Tetrachloroethane	23.32	83	120538	9.92	ug/l		85
61)	Isopropylbenzene(ben1,meth	22.87	105	452995	10.54	ug/l		96
62)	Bromobenzene	24.03	156	83907	8.80	ug/l		95
63)	1,2,3-Trichloropropane	23.71	75	94963	9.52	ug/l	#	1
64)	N-Propylbenzene	23.92	91	558110	10.69	ug/l		96
65)	2-Chlorotoluene	24.37	126	85572	8.84	ug/l		87
66)	4-Chlorotoluene	24.50	91	358231	10.09	ug/l		96
67)	Tert-Butylbenzene(ben-1,1-	25.23	119	295411	10.10	ug/l		99
68)	1,3,5-Trimethylbenzene	24.33	105	329751	9.99	ug/l		87
69)	1,2,4-Trimethylbenzene	25.34	105	339520	10.11	ug/l		89
70)	Sec-Butylbenzene(Ben-1-Met	25.78	105	454579	10.73	ug/l		97
71)	1,3-dichlorobenzene	26.37	146	179022	9.78	ug/l		94
72)	Para-Isopropyltoluene(ben-	25.23	119	295411	10.10	ug/l	#	54
73)	1,4-Dichlorobenzene	26.63	146	180303	10.06	ug/l		92
74)	1,2-Dichlorobenzene	27.54	146	171704	10.02	ug/l	#	87
75)	N-Butylbenzene	25.24	91	215286	9.81	ug/l	#	48
76)	1,2-Dibromo-3-Chloropropan	29.43	75	19991	4.84	ug/l	m	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F03.D Vial: 3
Acq On : 2 Sep 98 10:20 Operator:
Sample : 10 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:37 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.50	180	113366	9.36 ug/l #	95
78) Hexachlorobutadiene	31.82	225	44775	9.38 ug/l #	88
79) Naphthalene	32.13	128	283725	10.18 ug/l	100
80) 1,2,3-Trichlorobenzene	32.71	180	101504	9.34 ug/l	97

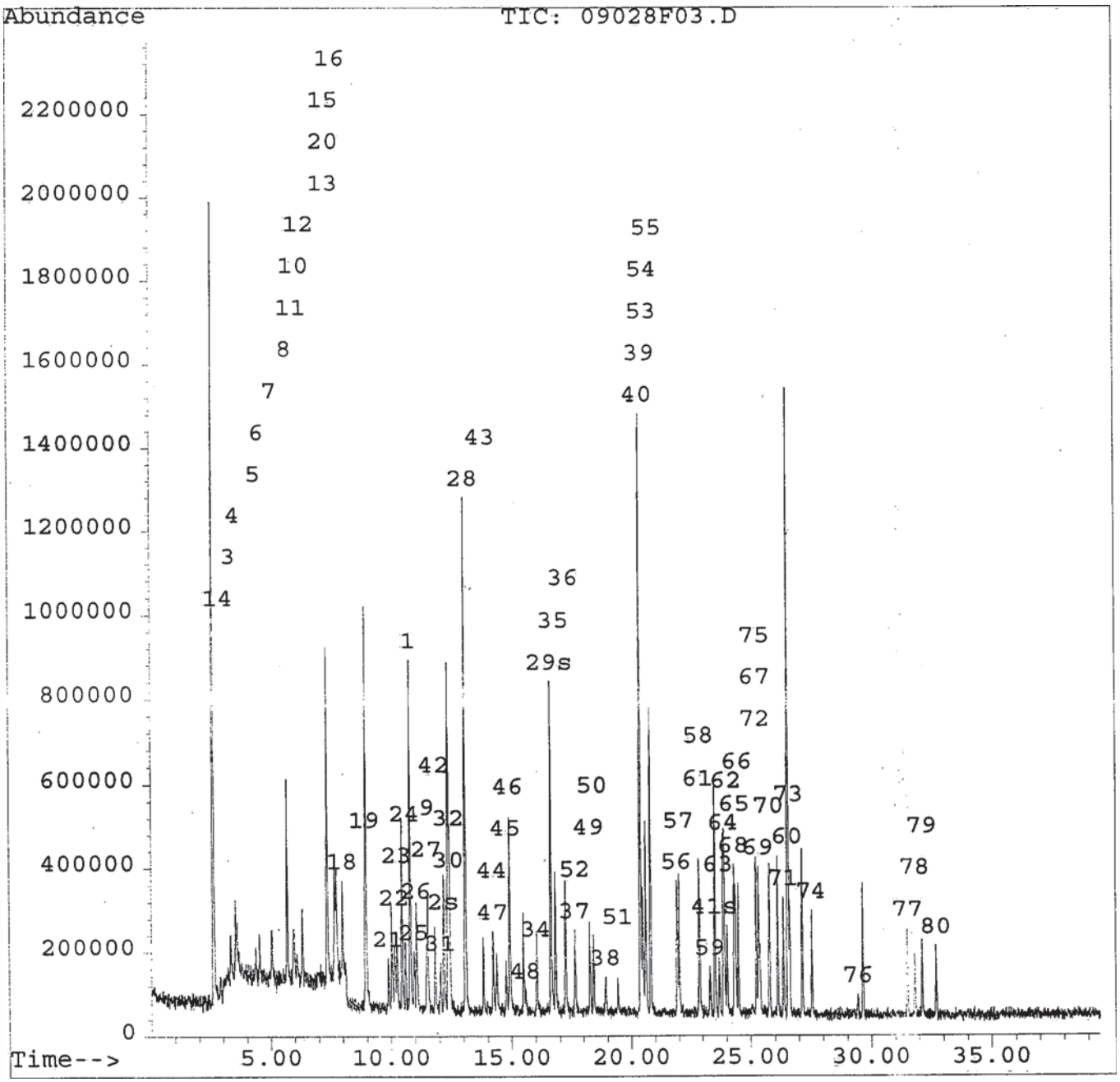
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F03.D
Acq On : 2 Sep 98 10:20
Sample : 10 PPB
Misc :
Quant Time: Sep 3 14:37 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F04.D Vial: 3
Acq On : 2 Sep 98 11:16 Operator:
Sample : 20 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 2 12:00 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.81	168	850679	50.00 ug/l	0.00 100.94%
28) 1,4-Difluorobenzene	13.08	114	1549498	50.00 ug/l	0.00 103.30%
40) Chlorobenzene-D5	20.40	117	1398177	50.00 ug/l	0.00 106.86%
60) 1,4-Dichlorobenzene-D4	26.56	152	625268	50.00 ug/l	0.00 100.43%
System Monitoring Compounds					**%Recovery**
2) 1,2-Dichloroethane-D4	12.21	65	384884	27.23 ug/l	108.91%
29) Toluene-D8	16.66	98	870278	25.33 ug/l	101.30%
41) 1,4-Bromofluorobenzene	23.53	95	379872	24.62 ug/l	98.47%
Target Compounds					**Qvalue**
3) Chloromethane	3.34	50	465327	20.80 ug/l	97
4) Vinyl Chloride	3.53	62	450452	21.66 ug/l	100
5) Bromomethane	4.38	94	168904	16.22 ug/l	92
6) Chloroethane	4.54	64	273898	21.06 ug/l #	25
7) Trichlorofluoromethane	5.06	101	410945	23.19 ug/l	90
8) Ethyl Ether	5.69	45	716717	63.06 ug/l #	78
9) Acreolin	11.54	56	593314	224.73 ug/l	95
10) 2-Propanone (acetone)	6.12	43	186864	35.30 ug/l	99
11) 1,1,2-Trichloro-1,2,2-Trif	5.97	151	155389	19.69 ug/l	100
12) 1,1-Dichloroethylene	6.33	96	236977	21.31 ug/l	93
13) Carbon Disulfide	7.36	76	2941737	71.21 ug/l	100
14) Dichlorodifluoromethane	2.90	85	205874	19.10 ug/l #	87
15) Methylene Chloride	7.37	84	310864	21.45 ug/l	99
16) Acrylonitrile	7.67	53	633936	101.17 ug/l #	90
17) Methyl-t-Butyl Ether	7.74	73	930553	23.08 ug/l #	90
18) Trans-1,2-Dichloroethylene	8.01	96	282099	24.74 ug/l #	1
19) 1,1-dichloroethane	8.95	63	458589	21.25 ug/l	95
20) Vinyl Acetate	7.37	86	188581	60.12 ug/l #	1
21) 2-Butanone (MEK)	9.90	43	502644	73.01 ug/l	96
22) 2,2-Dichloropropane	10.18	77	356632	21.10 ug/l #	76
23) cis-1,2-Dichloroethylene	10.27	96	238587	20.94 ug/l	91
24) Chloroform	10.62	83	402921	21.30 ug/l	98
25) Bromochloromethane	10.97	128	105217	21.24 ug/l	93
26) Tetrahydrofuran	11.08	71	150780	129.27 ug/l	80
27) 1,1,1-Trichloroethane	11.49	97	298780	20.29 ug/l	97
30) 1,2-Dichloroethane	12.42	62	381715	22.54 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F04.D
Acq On : 2 Sep 98 11:16
Sample : 20 PPB
Misc :
Quant Time: Sep 2 12:00 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.08	117	224163	21.84 ug/l		87
32)	Benzene	12.46	78	943313	21.93 ug/l		100
34)	c-1,3-dichloropropene	16.08	75	378556	21.60 ug/l		92
35)	Toluene	16.85	91	900991	22.02 ug/l		93
36)	t-1,3-Dichloropropene	17.28	75	330326	21.59 ug/l		98
37)	1,1,2-Trichloroethane	17.66	83	165081	21.61 ug/l		85
38)	Dibromochloromethane	18.94	127	121343	20.26 ug/l		93
39)	Chlorobenzene	20.50	77	340527	20.40 ug/l	#	79
42)	1,1-Dichloropropene	11.86	75	326621	20.83 ug/l		92
43)	Trichloroethylene	13.83	95	202904	19.50 ug/l		95
44)	1,2-Dichloropropane	14.25	63	253418	21.43 ug/l	#	94
45)	Bromodichloromethane	14.80	83	272783	20.39 ug/l		99
46)	Dibromomethane	14.91	93	116577	17.83 ug/l	#	85
47)	2-Chloroethylvinylether	14.25	63	253418	64.29 ug/l	#	88
48)	4-Methyl-2-Pentanone(MIBK)	15.59	43	131040	11.14 ug/l	#	100
49)	1,3-Dichloropropane	18.28	76	417307	22.48 ug/l		93
50)	Tetrachloroethylene	18.43	166	204049	22.29 ug/l		90
51)	1,2-Dibromomethane	19.44	107	174948	19.39 ug/l		92
52)	2-Hexanone	17.68	43	105633	13.97 ug/l		99
53)	1,1,1,2-Tetrachloroethane	20.60	131	163456	22.39 ug/l		93
54)	Ethylbenzene	20.63	91	947384	22.01 ug/l		99
55)	META/PARA XYLENE	20.83	106	706542	42.16 ug/l		95
56)	Ortho Xylene	21.95	106	333133	20.35 ug/l		96
57)	Styrene	22.04	104	566273	20.57 ug/l		95
58)	BROMOFORM	22.93	173	79927	18.47 ug/l		90
59)	1,1,2,2-Tetrachloroethane	23.33	83	237899	19.93 ug/l		91
61)	Isopropylbenzene(ben1,meth	22.88	105	896799	21.16 ug/l		94
62)	Bromobenzene	24.04	156	190025	21.11 ug/l		94
63)	1,2,3-Trichloropropane	23.72	75	211230	21.87 ug/l	#	1
64)	N-Propylbenzene	23.93	91	1221718	23.93 ug/l		93
65)	2-Chlorotoluene	24.39	126	194506	21.13 ug/l		100
66)	4-Chlorotoluene	24.52	91	738607	21.51 ug/l		92
67)	Tert-Butylbenzene(ben-1,1-	25.25	119	631410	22.09 ug/l		98
68)	1,3,5-Trimethylbenzene	24.34	105	687729	21.31 ug/l		90
69)	1,2,4-Trimethylbenzene	25.34	105	697203	21.30 ug/l		92
70)	Sec-Butylbenzene(Ben-1-Met	25.79	105	954503	23.01 ug/l		99
71)	1,3-dichlorobenzene	26.38	146	374796	21.38 ug/l		90
72)	Para-Isopropyltoluene(ben-	25.25	119	631410	22.09 ug/l	#	52
73)	1,4-Dichlorobenzene	26.63	146	386036	22.24 ug/l		91
74)	1,2-Dichlorobenzene	27.55	146	354557	21.05 ug/l		96
75)	N-Butylbenzene	25.25	91	474424	22.06 ug/l	#	48
76)	1,2-Dibromo-3-Chloropropan	29.46	75	35681	8.80 ug/l	#	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F04.D Vial: 3
Acq On : 2 Sep 98 11:16 Operator:
Sample : 20 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 2 12:00 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.53	180	244315	20.88 ug/l	92
78) Hexachlorobutadiene	31.84	225	110711	24.06 ug/l	92
79) Naphthalene	32.14	128	617563	22.77 ug/l	100
80) 1,2,3-Trichlorobenzene	32.73	180	213105	20.41 ug/l	97

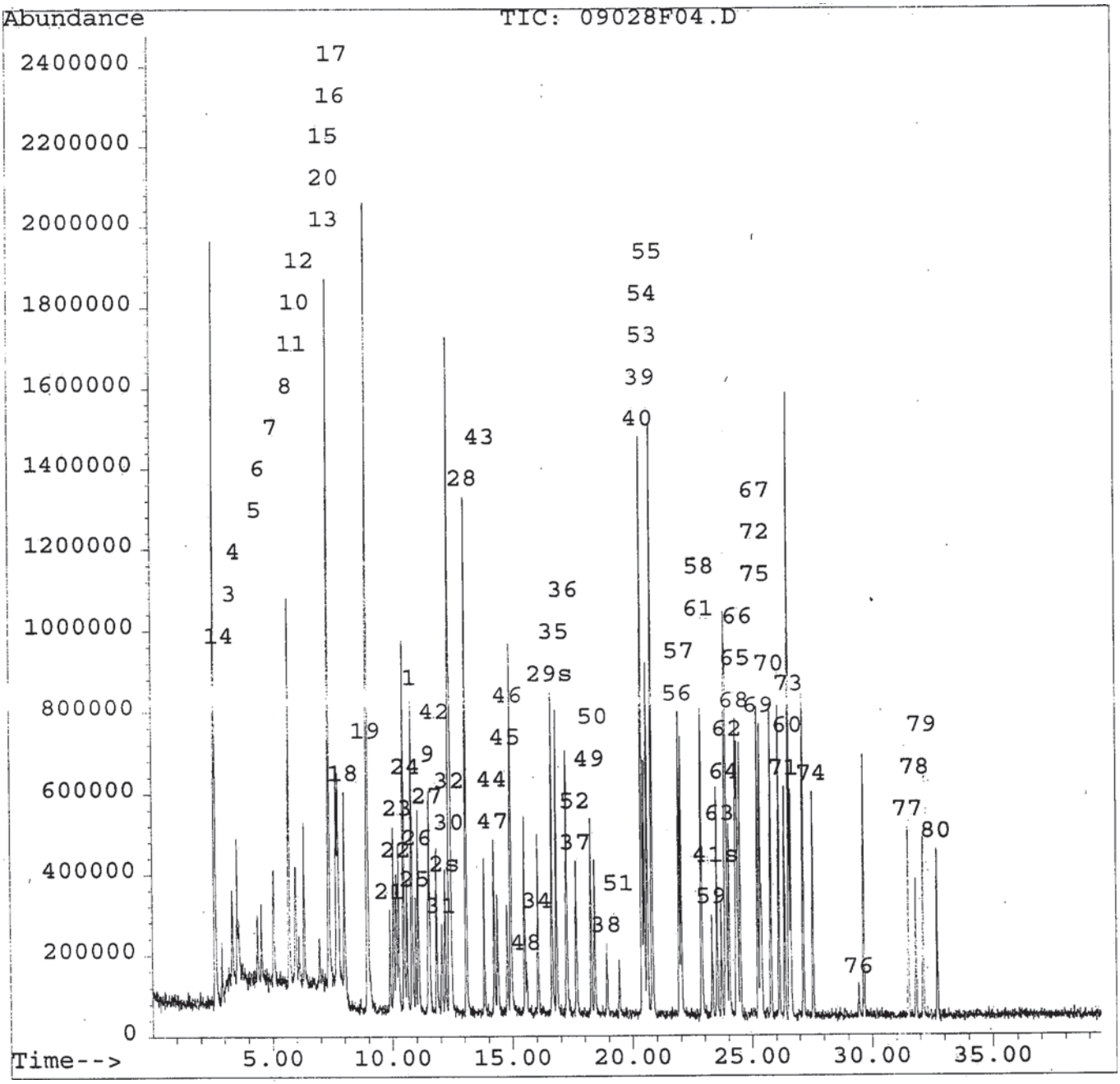
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F04.D
Acq On : 2 Sep 98 11:16
Sample : 20 PPB
Misc :
Quant Time: Sep 2 12:00 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F05.D Vial: 3
Acq On : 2 Sep 98 12:11 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:18 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.82	168	845228	50.00	ug/l	0.00 100.29%
28) 1,4-Difluorobenzene	13.09	114	1532545	50.00	ug/l	0.00 102.17%
40) Chlorobenzene-D5	20.41	117	1415141	50.00	ug/l	0.00 108.16%
60) 1,4-Dichlorobenzene-D4	26.56	152	605965	50.00	ug/l	0.00 97.32%

System Monitoring Compounds						%Recovery
2) 1,2-Dichloroethane-D4	12.22	65	356543	24.76	ug/l	99.04%
29) Toluene-D8	16.66	98	870956	25.62	ug/l	102.49%
41) 1,4-Bromofluorobenzene	23.54	95	390449	25.13	ug/l	100.54%

Target Compounds							Qvalue
3) Chloromethane	3.33	50	1137442	51.31	ug/l		97
4) Vinyl Chloride	3.53	62	1143825	54.91	ug/l		100
5) Bromomethane	4.38	94	441548	46.74	ug/l		98
6) Chloroethane	4.54	64	709550	55.09	ug/l	#	7
7) Trichlorofluoromethane	5.06	101	999834	55.58	ug/l		95
8) Ethyl Ether	5.70	45	1937698	169.26	ug/l	#	80
9) Acreolin	11.56	56	1397967	520.76	ug/l	#	93
10) 2-Propanone (acetone)	6.13	43	408485	76.50	ug/l		94
11) 1,1,2-Trichloro-1,2,2-Trif	5.98	151	410750	54.36	ug/l		100
12) 1,1-Dichloroethylene	6.33	96	575562	51.08	ug/l		93
13) Carbon Disulfide	7.36	76	7134561	167.79	ug/l		100
14) Dichlorodifluoromethane	2.90	85	506559	49.04	ug/l		90
15) Methylene Chloride	7.38	84	756305	51.88	ug/l		97
16) Acrylonitrile	7.68	53	1644639	259.82	ug/l	#	89
17) Methyl-t-Butyl Ether	7.74	73	2241208	53.96	ug/l	#	89
18) Trans-1,2-Dichloroethylene	8.01	96	648007	54.56	ug/l	#	1
19) 1,1-dichloroethane	8.94	63	1110752	51.37	ug/l		97
20) Vinyl Acetate	7.38	86	439000	140.80	ug/l	#	1
21) 2-Butanone (MEK)	9.91	43	1331829	194.17	ug/l		95
22) 2,2-Dichloropropane	10.18	77	902636	53.21	ug/l	#	79
23) cis-1,2-Dichloroethylene	10.28	96	584478	51.77	ug/l		81
24) Chloroform	10.63	83	982451	51.89	ug/l		100
25) Bromochloromethane	10.98	128	265866	54.46	ug/l		93
26) Tetrahydrofuran	11.09	71	386759	336.48	ug/l		87
27) 1,1,1-Trichloroethane	11.50	97	746503	50.58	ug/l		98
30) 1,2-Dichloroethane	12.43	62	963415	55.96	ug/l		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F05.D
Acq On : 2 Sep 98 12:11
Sample : 50 PPB
Misc :
Quant Time: Sep 3 14:18 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Carbon tetrachloride	12.08	117	574553	56.46 ug/l	91
32) Benzene	12.46	78	2300268	53.19 ug/l	100
34) c-1,3-dichloropropene	16.07	75	992682	56.85 ug/l	97
35) Toluene	16.85	91	2221076	54.36 ug/l	93
36) t-1,3-Dichloropropene	17.28	75	917583	59.53 ug/l	99
37) 1,1,2-Trichloroethane	17.66	83	439042	58.04 ug/l	87
38) Dibromochloromethane	18.94	127	350807	59.73 ug/l	96
39) Chlorobenzene	20.50	77	913496	55.18 ug/l	82
42) 1,1-Dichloropropene	11.85	75	786600	49.32 ug/l	95
43) Trichloroethylene	13.84	95	540761	52.62 ug/l	94
44) 1,2-Dichloropropane	14.26	63	612027	51.47 ug/l	99
45) Bromodichloromethane	14.79	83	735215	54.35 ug/l #	94
46) Dibromomethane	14.92	93	344890	54.27 ug/l	93
47) 2-Chloroethylvinylether	14.26	63	612027	154.41 ug/l	92
48) 4-Methyl-2-Pentanone(MIBK)	15.59	43	376657	31.54 ug/l #	100
49) 1,3-Dichloropropane	18.29	76	1074876	56.42 ug/l	95
50) Tetrachloroethylene	18.44	166	480848	51.92 ug/l	97
51) 1,2-Dibromomethane	19.45	107	487471	54.32 ug/l	98
52) 2-Hexanone	17.69	43	268533	33.86 ug/l #	88
53) 1,1,1,2-Tetrachloroethane	20.61	131	437957	59.10 ug/l	90
54) Ethylbenzene	20.63	91	2521743	57.03 ug/l	99
55) META/PARA XYLENE	20.83	106	1846497	107.99 ug/l	90
56) Ortho Xylene	21.95	106	889295	53.59 ug/l	99
57) Styrene	22.05	104	1555908	55.95 ug/l	86
58) BROMOFORM	22.93	173	264429	60.96 ug/l	89
59) 1,1,2,2-Tetrachloroethane	23.33	83	686769	56.58 ug/l	92
61) Isopropylbenzene(ben1,meth	22.89	105	2336125	56.73 ug/l	93
62) Bromobenzene	24.05	156	484934	55.61 ug/l	91
63) 1,2,3-Trichloropropane	23.72	75	593768	62.23 ug/l #	1
64) N-Propylbenzene	23.94	91	3057937	60.10 ug/l	96
65) 2-Chlorotoluene	24.40	126	502454	56.51 ug/l	100
66) 4-Chlorotoluene	24.52	91	1817563	54.44 ug/l	92
67) Tert-Butylbenzene(ben-1,1-	25.26	119	1584458	56.47 ug/l	97
68) 1,3,5-Trimethylbenzene	24.34	105	1831454	58.23 ug/l	93
69) 1,2,4-Trimethylbenzene	25.35	105	1891944	59.46 ug/l	88
70) Sec-Butylbenzene(Ben-1-Met	25.79	105	2404826	58.70 ug/l	98
71) 1,3-dichlorobenzene	26.38	146	958860	56.48 ug/l	94
72) Para-Isopropyltoluene(ben-	25.26	119	1584458	56.47 ug/l #	51
73) 1,4-Dichlorobenzene	26.64	146	978760	57.75 ug/l	93
74) 1,2-Dichlorobenzene	27.56	146	900858	55.03 ug/l	96
75) N-Butylbenzene	25.26	91	1204541	56.81 ug/l #	49
76) 1,2-Dibromo-3-Chloropropan	29.45	75	102972	26.20 ug/l m	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F05.D Vial: 3
Acq On : 2 Sep 98 12:11 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:18 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.52	180	639223	56.60	ug/l	97
78) Hexachlorobutadiene	31.83	225	258963	57.40	ug/l	94
79) Naphthalene	32.14	128	1687299	63.53	ug/l	100
80) 1,2,3-Trichlorobenzene	32.72	180	586445	58.91	ug/l	98

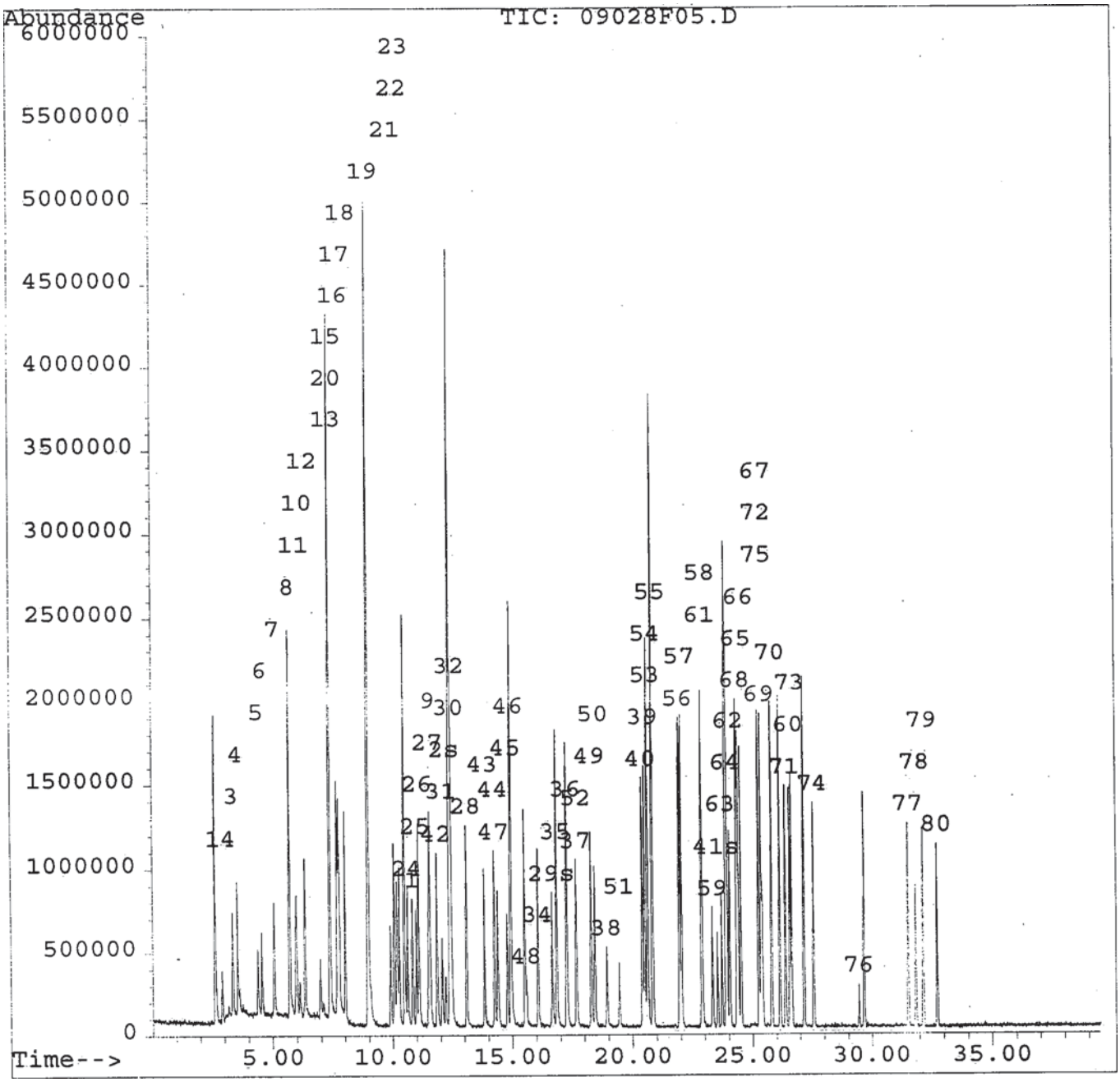
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F05.D
Acq On : 2 Sep 98 12:11
Sample : 50 PPB
Misc :
Quant Time: Sep 3 14:18 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F06.D Vial: 3
Acq On : 2 Sep 98 13:12 Operator:
Sample : 100 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:20 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	817978	50.00 ug/l	0.00 97.06%
28) 1,4-Difluorobenzene	13.10	114	1481894	50.00 ug/l	0.00 98.79%
40) Chlorobenzene-D5	20.42	117	1342753	50.00 ug/l	0.00 102.63%
60) 1,4-Dichlorobenzene-D4	26.57	152	570586	50.00 ug/l	0.00 91.64%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.23	65	343825	24.62 ug/l	98.48%
29) Toluene-D8	16.66	98	828412	25.08 ug/l	100.33%
41) 1,4-Bromofluorobenzene	23.55	95	396748	26.85 ug/l	107.40%

Target Compounds						Qvalue
3) Chloromethane	3.34	50	2457328	114.76 ug/l		96
4) Vinyl Chloride	3.54	62	2432594	117.39 ug/l		99
5) Bromomethane	4.38	94	1019668	119.49 ug/l		97
6) Chloroethane	4.55	64	1419217	112.34 ug/l	#	17
7) Trichlorofluoromethane	5.06	101	2043824	114.60 ug/l		96
8) Ethyl Ether	5.71	45	3752225	329.34 ug/l	#	79
9) Acreolin	11.56	56	2885413	1099.53 ug/l	#	92
10) 2-Propanone (acetone)	6.13	43	783774	153.63 ug/l		97
11) 1,1,2-Trichloro-1,2,2-Trif	5.98	151	892597	124.35 ug/l		100
12) 1,1-Dichloroethylene	6.33	96	1129068	102.76 ug/l		94
13) Carbon Disulfide	7.37	76	13601193	308.86 ug/l		100
14) Dichlorodifluoromethane	2.91	85	1020040	105.08 ug/l		94
15) Methylene Chloride	7.38	84	1475703	103.51 ug/l		94
16) Acrylonitrile	7.68	53	3098000	504.46 ug/l	#	91
17) Methyl-t-Butyl Ether	7.74	73	4297632	103.68 ug/l	#	91
18) Trans-1,2-Dichloroethylene	8.02	96	1202252	101.52 ug/l	#	1
19) 1,1-dichloroethane	8.95	63	2310995	111.02 ug/l		95
20) Vinyl Acetate	7.38	86	951672	319.93 ug/l	#	1
21) 2-Butanone (MEK)	9.91	43	2613936	406.60 ug/l		95
22) 2,2-Dichloropropane	10.18	77	1861672	112.49 ug/l	#	82
23) cis-1,2-Dichloroethylene	10.28	96	1147432	106.07 ug/l		88
24) Chloroform	10.63	83	1927161	104.44 ug/l		98
25) Bromochloromethane	10.98	128	553067	119.58 ug/l		94
26) Tetrahydrofuran	11.09	71	796321	734.12 ug/l		74
27) 1,1,1-Trichloroethane	11.51	97	1502666	105.21 ug/l		99
30) 1,2-Dichloroethane	12.43	62	1877167	108.85 ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F06.D
Acq On : 2 Sep 98 13:12
Sample : 100 PPB
Misc :
Quant Time: Sep 3 14:20 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.08	117	1170090	117.01 ug/l		91
32)	Benzene	12.47	78	4469773	103.57 ug/l		100
34)	c-1,3-dichloropropene	16.08	75	2020251	117.31 ug/l		95
35)	Toluene	16.86	91	4598228	114.35 ug/l		94
36)	t-1,3-Dichloropropene	17.28	75	1840173	119.69 ug/l		92
37)	1,1,2-Trichloroethane	17.67	83	875078	118.17 ug/l		87
38)	Dibromochloromethane	18.95	127	673133	118.34 ug/l		99
39)	Chlorobenzene	20.51	77	1877110	115.08 ug/l		83
42)	1,1-Dichloropropene	11.86	75	1668584	110.53 ug/l		92
43)	Trichloroethylene	13.85	95	1055238	108.83 ug/l		91
44)	1,2-Dichloropropane	14.27	63	1292497	115.13 ug/l		99
45)	Bromodichloromethane	14.80	83	1535732	118.34 ug/l	#	94
46)	Dibromomethane	14.93	93	694407	115.35 ug/l		96
47)	2-Chloroethylvinylether	14.27	63	1292497	345.40 ug/l		91
48)	4-Methyl-2-Pentanone(MIBK)	15.60	43	745137	64.33 ug/l	#	100
49)	1,3-Dichloropropane	18.29	76	2077854	113.03 ug/l		98
50)	Tetrachloroethylene	18.45	166	928307	105.97 ug/l		96
51)	1,2-Dibromomethane	19.46	107	964880	113.55 ug/l		95
52)	2-Hexanone	17.69	43	542503	70.90 ug/l	#	84
53)	1,1,1,2-Tetrachloroethane	20.62	131	907524	127.56 ug/l		94
54)	Ethylbenzene	20.64	91	4856598	110.77 ug/l		99
55)	META/PARA XYLENE	20.84	106	3681992	220.11 ug/l		86
56)	Ortho Xylene	21.96	106	1811121	113.85 ug/l		99
57)	Styrene	22.05	104	3149036	117.18 ug/l		88
58)	BROMOFORM	22.93	173	558185	132.99 ug/l		96
59)	1,1,2,2-Tetrachloroethane	23.33	83	1385201	117.59 ug/l		93
61)	Isopropylbenzene(ben1,meth	22.89	105	4768643	119.79 ug/l		95
62)	Bromobenzene	24.06	156	1022363	122.92 ug/l		84
63)	1,2,3-Trichloropropane	23.73	75	1026227	109.92 ug/l	m	1
64)	N-Propylbenzene	23.94	91	5990081	118.69 ug/l		97
65)	2-Chlorotoluene	24.41	126	1009410	119.02 ug/l		94
66)	4-Chlorotoluene	24.53	91	3561560	111.51 ug/l		92
67)	Tert-Butylbenzene(ben-1,1-	25.26	119	3197064	118.43 ug/l		97
68)	1,3,5-Trimethylbenzene	24.35	105	3752874	122.40 ug/l		93
69)	1,2,4-Trimethylbenzene	25.36	105	3846029	123.85 ug/l		91
70)	Sec-Butylbenzene(Ben-1-Met	25.80	105	4751237	118.63 ug/l		98
71)	1,3-dichlorobenzene	26.38	146	1918326	117.81 ug/l		94
72)	Para-Isopropyltoluene(ben-	25.26	119	3197064	118.43 ug/l	#	52
73)	1,4-Dichlorobenzene	26.65	146	1933756	117.92 ug/l		94
74)	1,2-Dichlorobenzene	27.57	146	1866043	119.89 ug/l		95
75)	N-Butylbenzene	25.26	91	2424776	118.07 ug/l	#	48
76)	1,2-Dibromo-3-Chloropropan	29.46	75	214056	57.08 ug/l	m	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F06.D Vial: 3
Acq On : 2 Sep 98 13:12 Operator:
Sample : 100 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:20 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.53	180	1353551	126.09 ug/l	98
78) Hexachlorobutadiene	31.84	225	540595	126.10 ug/l	98
79) Naphthalene	32.14	128	3389184	130.53 ug/l	100
80) 1,2,3-Trichlorobenzene	32.73	180	1219033	127.27 ug/l	97

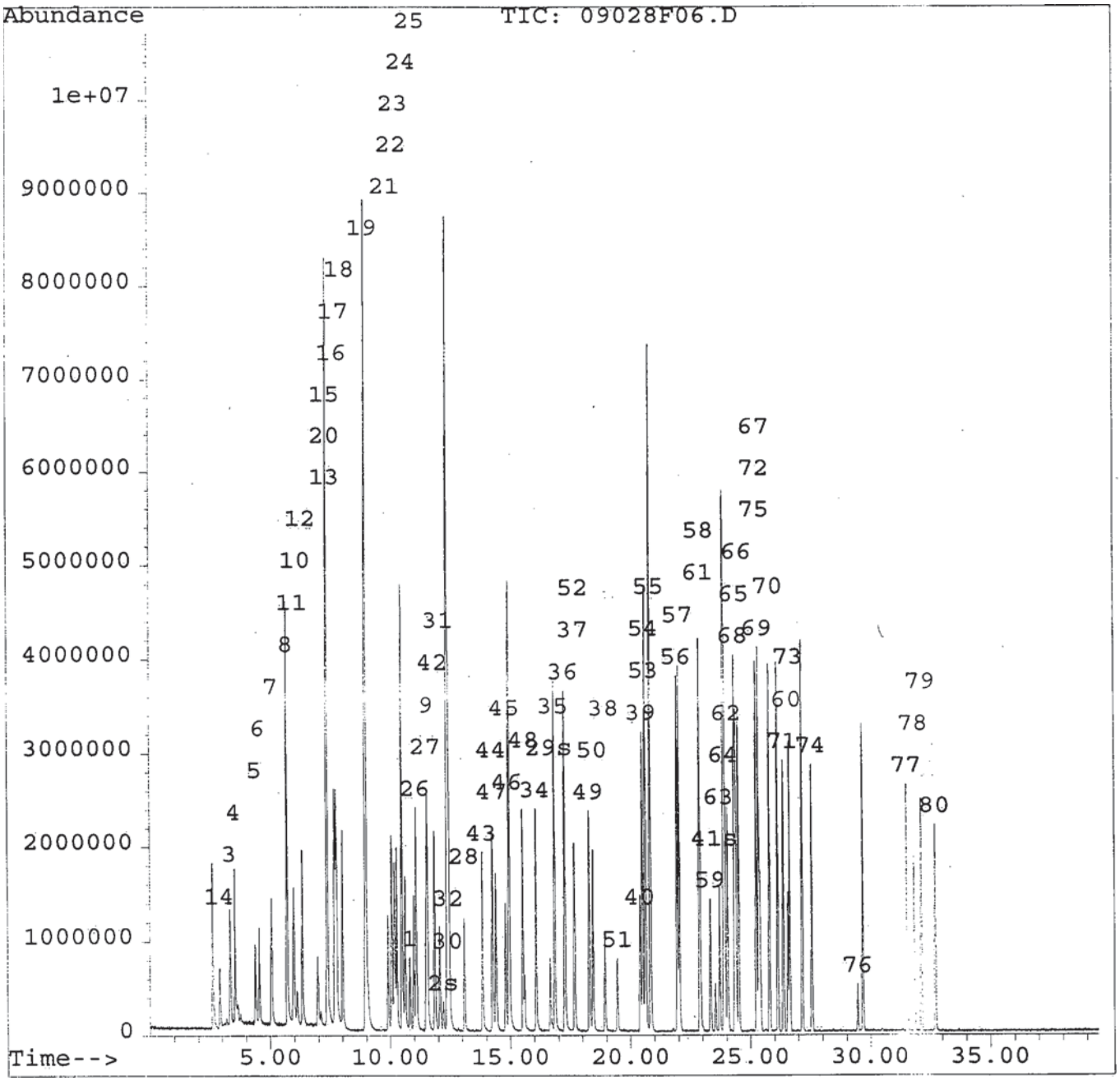
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F06.D
Acq On : 2 Sep 98 13:12
Sample : 100 PPB
Misc :
Quant Time: Sep 3 14:20 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration



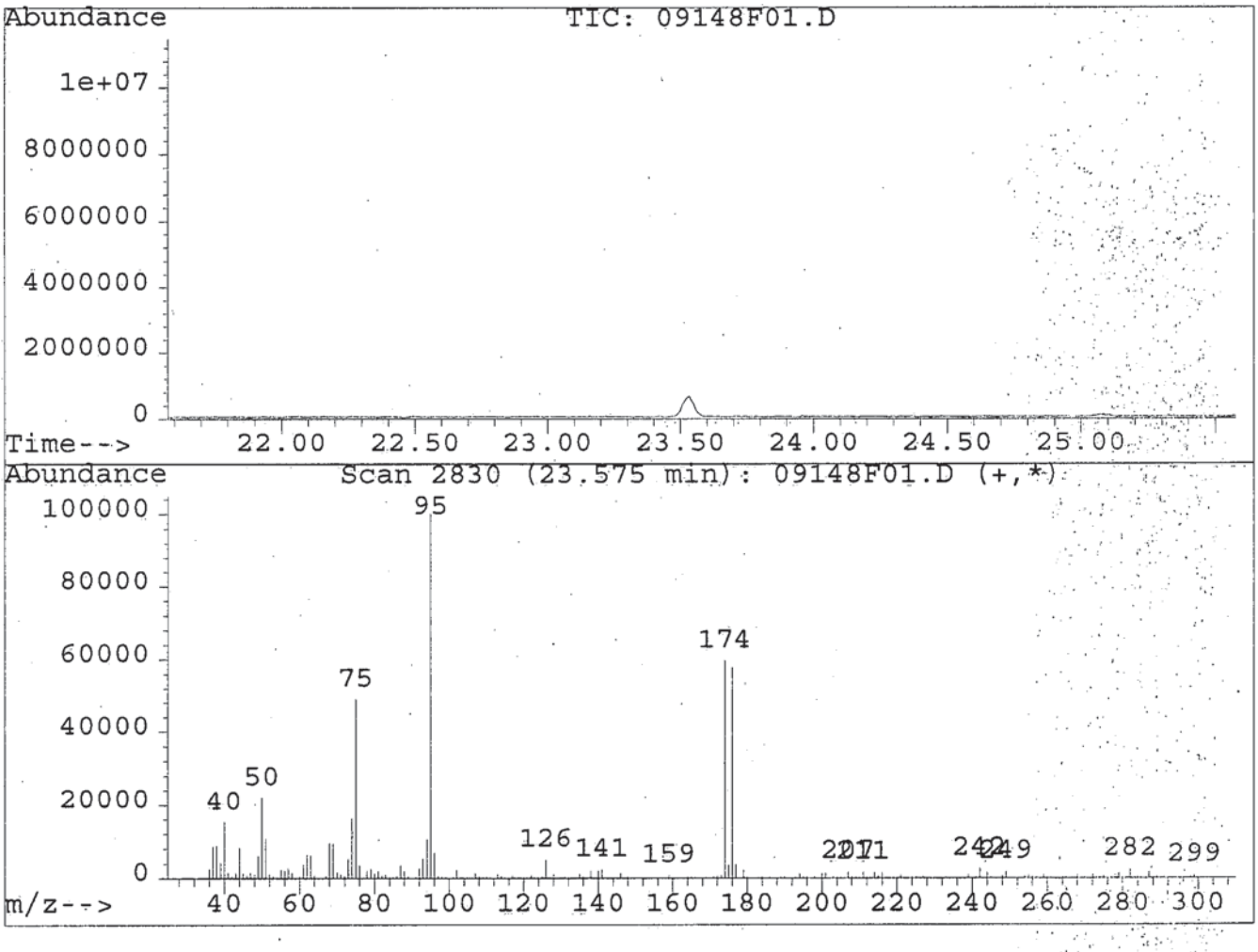
Ongoing Calibration

BFB

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F01.D
Acq On : 14 Sep 98 08:32
Sample : LAB BLANK
Misc :

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :



Peak Apex is scan: : Scan 2830 (23.575 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	22205	PASS
75	95	30	60	49.1	49122	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.1	7068	PASS
173	174	0	2	1.3	770	PASS
174	95	50	100	59.8	59774	PASS
175	174	5	9	6.1	3629	PASS
176	174	95	101	96.8	57863	PASS
177	176	5	9	6.6	3822	PASS

09148F01.D 090298HW.M Mon Sep 14 10:07:04 1998

Evaluate Continuing Calibration Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F02.D Vial: 1
Acq On : 14 Sep 98 10:38 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Wed Sep 09 14:08:02 1998
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1		Pentafluorobenzene	1.000	1.000	0.0	124	0.02
2	s	1,2-Dichloroethane-D4	0.856	0.924	-7.9	135	0.02
3		Chloromethane	1.347	1.387	-3.0	127	0.02
4		Vinyl Chloride	1.332	1.346	-1.0	123	0.02
5		Bromomethane	0.530	0.450	15.1	106	0.02
6		Chloroethane	0.788	0.807	-2.4	119	0.03
7		Trichlorofluoromethane	1.139	0.993	12.9	104	0.00
8		Ethyl Ether	0.727	0.752	-3.4	122	0.02
9		Acreolin	0.167	0.165	1.2	123	0.02
10		2-Propanone (acetone)	0.266	0.270	-1.6	138	0.03
11		1,1,2-Trichloro-1,2,2-Trifl	0.480	0.434	9.7	110	0.00
12		1,1-Dichloroethylene	0.681	0.631	7.3	114	0.03
13		Carbon Disulfide	2.791	2.602	6.8	114	0.02
14		Dichlorodifluoromethane	0.575	0.500	13.1	103	0.02
15		Methylene Chloride	0.884	0.900	-1.8	124	0.00
16		Acrylonitrile	0.382	0.439	-15.1	139	0.02
17		Methyl-t-Butyl Ether	2.636	2.581	2.1	120	0.02
18		Trans-1,2-Dichloroethylene	0.736	0.748	-1.7	121	0.02
19		1,1-dichloroethane	1.285	1.330	-3.4	125	0.02
20		Vinyl Acetate	0.185	0.189	-2.4	135	0.02
21		2-Butanone (MEK)	0.385	0.439	-14.0	138	0.02
22		2,2-Dichloropropane	1.033	1.018	1.5	118	0.03
23		cis-1,2-Dichloroethylene	0.667	0.693	-3.9	124	0.02
24		Chloroform	1.153	1.170	-1.5	124	0.03
25		Bromochloromethane	0.300	0.300	-0.0	118	0.02
26		Tetrahydrofuran	0.066	0.068	-2.4	128	0.02
27		1,1,1-Trichloroethane	0.882	0.875	0.8	122	0.02
28		1,4-Difluorobenzene	1.000	1.000	0.0	128	0.02
29	s	Toluene-D8	1.124	1.152	-2.6	130	0.02
30		1,2-Dichloroethane	0.609	0.568	6.6	116	0.02
31		Carbon tetrachloride	0.350	0.345	1.5	118	0.02
32		Benzene	1.529	1.423	7.0	121	0.02
33		Fluorobenzene	1.693	0.000	100.0#	0#	-13.13#
34		c-1,3-dichloropropene	0.605	0.605	-0.0	120	0.02
35		Toluene	1.427	1.379	3.4	122	0.02
36		t-1,3-Dichloropropene	0.543	0.565	-4.2	121	0.02
37		1,1,2-Trichloroethane	0.258	0.281	-9.1	126	0.02
38		Dibromochloromethane	0.198	0.201	-1.5	112	0.04
39		Chlorobenzene	0.573	0.567	1.2	122	0.02
40		Chlorobenzene-D5	1.000	1.000	0.0	125	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F02.D Vial: 1
Acq On : 14 Sep 98 10:38 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Wed Sep 09 14:08:02 1998
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
41	s	1,4-Bromofluorobenzene	0.564	0.532	5.7	120	0.02
42		1,1-Dichloropropene	0.579	0.557	3.8	125	0.02
43		Trichloroethylene	0.364	0.372	-2.1	121	0.03
44		1,2-Dichloropropane	0.429	0.432	-0.7	124	0.03
45		Bromodichloromethane	0.500	0.523	-4.6	125	0.02
46		Dibromomethane	0.229	0.237	-3.7	121	0.02
47		2-Chloroethylvinylether	0.143	0.144	-0.7	124	0.03
48		4-Methyl-2-Pentanone(MIBK)	0.498	0.562	-12.8	132	0.02
49		1,3-Dichloropropane	0.707	0.711	-0.5	117	0.03
50		Tetrachloroethylene	0.331	0.300	9.5	110	0.03
51		1,2-Dibromomethane	0.319	0.327	-2.4	118	0.00
52		2-Hexanone	0.296	0.267	9.9	110	0.00
53		1,1,1,2-Tetrachloroethane	0.292	0.282	3.6	113	0.03
54		Ethylbenzene	1.752	1.609	8.1	112	0.03
55		META/PARA XYLENE	0.655	0.595	9.1	114	0.02
56		Ortho Xylene	0.609	0.576	5.3	114	0.03
57		Styrene	1.051	0.981	6.6	111	0.02
58		BROMOFORM	0.175	0.164	6.4	109	0.03
59		1,1,2,2-Tetrachloroethane	0.457	0.498	-9.0	128	0.03
60		1,4-Dichlorobenzene-D4	1.000	1.000	0.0	121	0.02
61		Isopropylbenzene(ben1,methy	3.695	3.611	2.3	113	0.03
62		Bromobenzene	0.758	0.731	3.6	110	0.05
63		1,2,3-Trichloropropane	0.837	0.995	-19.0	122	0.02
64		N-Propylbenzene	4.795	4.721	1.5	113	0.03
65		2-Chlorotoluene	0.769	0.763	0.7	111	0.04
66		4-Chlorotoluene	2.904	2.872	1.1	115	0.03
67		Tert-Butylbenzene(ben-1,1-d	2.478	2.351	5.1	108	0.03
68		1,3,5-Trimethylbenzene	2.839	2.820	0.7	113	0.02
69		1,2,4-Trimethylbenzene	2.900	3.004	-3.6	116	0.02
70		Sec-Butylbenzene(Ben-1-Meth	3.732	3.614	3.2	110	0.03
71		1,3-dichlorobenzene	1.476	1.463	0.9	112	0.02
72		Para-Isopropyltoluene(ben-1	2.478	2.351	5.1	108	0.03
73		1,4-Dichlorobenzene	1.496	1.468	1.9	110	0.03
74		1,2-Dichlorobenzene	1.420	1.338	5.8	109	0.02
75		N-Butylbenzene	1.875	1.835	2.2	111	0.03
76		1,2-Dibromo-3-Chloropropane	0.160	0.172	-7.9	122	0.04
77		1,2,4-Trichlorobenzene	1.001	0.990	1.0	113	0.03
78		Hexachlorobutadiene	0.432	0.392	9.3	111	0.04
79		Naphthalene	2.526	2.691	-6.5	117	0.02
80		1,2,3-Trichlorobenzene	0.909	0.890	2.1	111	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F02.D Vial: 1
Acq On : 14 Sep 98 10:38 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 14 11:53 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	1043997	50.00 ug/l	0.02 123.88%
28) 1,4-Difluorobenzene	13.10	114	1961548	50.00 ug/l	0.02 130.77%
40) Chlorobenzene-D5	20.42	117	1762025	50.00 ug/l	0.02 134.67%
60) 1,4-Dichlorobenzene-D4	26.58	152	730796	50.00 ug/l	0.02 117.37%
System Monitoring Compounds					**%Recovery**
2) 1,2-Dichloroethane-D4	12.23	65	482259	26.98 ug/l	107.91%
29) Toluene-D8	16.67	98	1130117	25.64 ug/l	102.56%
41) 1,4-Bromofluorobenzene	23.55	95	468938	23.58 ug/l	94.33%
Target Compounds					**Qvalue**
3) Chloromethane	3.35	50	1447710	51.49 ug/l	91
4) Vinyl Chloride	3.54	62	1405233	50.52 ug/l	100
5) Bromomethane	4.39	94	469832	42.46 ug/l	100
6) Chloroethane	4.56	64	842881	51.20 ug/l #	17
7) Trichlorofluoromethane	5.07	101	1036226	43.56 ug/l	98
8) Ethyl Ether	5.71	45	2354470	155.12 ug/l #	79
9) Acreolin	11.57	56	1724739	493.85 ug/l #	91
10) 2-Propanone (acetone)	6.14	43	564336	101.64 ug/l m	86
11) 1,1,2-Trichloro-1,2,2-Trif	5.98	151	452844	45.15 ug/l	100
12) 1,1-Dichloroethylene	6.35	96	658501	46.33 ug/l	99
13) Carbon Disulfide	7.37	76	8149493	139.85 ug/l	100
14) Dichlorodifluoromethane	2.92	85	521835	43.44 ug/l #	87
15) Methylene Chloride	7.38	84	939896	50.92 ug/l	96
16) Acrylonitrile	7.68	53	2293703	287.72 ug/l #	90
17) Methyl-t-Butyl Ether	7.75	73	2695068	48.97 ug/l #	90
18) Trans-1,2-Dichloroethylene	8.02	96	781347	50.84 ug/l #	1
19) 1,1-dichloroethane	8.95	63	1388208	51.72 ug/l	96
20) Vinyl Acetate	7.38	86	592027	153.58 ug/l #	1
21) 2-Butanone (MEK)	9.92	43	1831456	227.96 ug/l m	96
22) 2,2-Dichloropropane	10.18	77	1062366	49.24 ug/l #	84
23) cis-1,2-Dichloroethylene	10.28	96	723373	51.95 ug/l	81
24) Chloroform	10.63	83	1221431	50.74 ug/l	98
25) Bromochloromethane	10.98	128	313521	50.01 ug/l	89
26) Tetrahydrofuran	11.10	71	495169	358.55 ug/l m	72
27) 1,1,1-Trichloroethane	11.51	97	913555	49.62 ug/l	97
30) 1,2-Dichloroethane	12.43	62	1114943	46.68 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F02.D Vial: 1
Acq On : 14 Sep 98 10:38 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 14 11:53 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.07	117	677197	49.27 ug/l		85
32)	Benzene	12.47	78	2790719	46.52 ug/l		100
34)	c-1,3-dichloropropene	16.08	75	1186333	50.02 ug/l		95
35)	Toluene	16.86	91	2704451	48.31 ug/l		94
36)	t-1,3-Dichloropropene	17.29	75	1108891	52.08 ug/l		95
37)	1,1,2-Trichloroethane	17.68	83	551670	54.57 ug/l		91
38)	Dibromochloromethane	18.97	127	393746	50.73 ug/l		95
39)	Chlorobenzene	20.52	77	1111309	49.41 ug/l		85
42)	1,1-Dichloropropene	11.87	75	980802	48.09 ug/l		92
43)	Trichloroethylene	13.85	95	655335	51.06 ug/l		95
44)	1,2-Dichloropropane	14.27	63	760616	50.33 ug/l		97
45)	Bromodichloromethane	14.81	83	921398	52.32 ug/l		98
46)	Dibromomethane	14.93	93	417742	51.87 ug/l		95
47)	2-Chloroethylvinylether	14.27	63	760616	150.98 ug/l		96
48)	4-Methyl-2-Pentanone(MIBK)	15.61	43	495391	28.21 ug/l	#	100
49)	1,3-Dichloropropane	18.30	76	1252759	50.26 ug/l		95
50)	Tetrachloroethylene	18.46	166	527785	45.24 ug/l		94
51)	1,2-Dibromomethane	19.46	107	576274	51.22 ug/l		97
52)	2-Hexanone	17.69	43	296532	28.39 ug/l	m	81
53)	1,1,1,2-Tetrachloroethane	20.63	131	496485	48.19 ug/l		98
54)	Ethylbenzene	20.65	91	2835517	45.93 ug/l		98
55)	META/PARA XYLENE	20.84	106	2098283	90.86 ug/l		89
56)	Ortho Xylene	21.97	106	1015281	47.34 ug/l		100
57)	Styrene	22.06	104	1728999	46.69 ug/l		91
58)	BROMOFORM	22.94	173	288463	46.82 ug/l		96
59)	1,1,2,2-Tetrachloroethane	23.35	83	877250	54.49 ug/l		88
61)	Isopropylbenzene(ben1,meth	22.90	105	2638886	48.86 ug/l		93
62)	Bromobenzene	24.08	156	534129	48.19 ug/l		95
63)	1,2,3-Trichloropropane	23.73	75	727313	59.48 ug/l	#	1
64)	N-Propylbenzene	23.95	91	3449733	49.23 ug/l		94
65)	2-Chlorotoluene	24.41	126	557877	49.64 ug/l		96
66)	4-Chlorotoluene	24.53	91	2099117	49.45 ug/l		96
67)	Tert-Butylbenzene(ben-1,1-	25.27	119	1717789	47.43 ug/l		95
68)	1,3,5-Trimethylbenzene	24.36	105	2060820	49.67 ug/l		92
69)	1,2,4-Trimethylbenzene	25.37	105	2194989	51.79 ug/l		86
70)	Sec-Butylbenzene(Ben-1-Met	25.81	105	2641119	48.42 ug/l		97
71)	1,3-dichlorobenzene	26.39	146	1069352	49.57 ug/l		94
72)	Para-Isopropyltoluene(ben-	25.27	119	1717789	47.43 ug/l	#	50
73)	1,4-Dichlorobenzene	26.66	146	1073005	49.07 ug/l		93
74)	1,2-Dichlorobenzene	27.57	146	977554	47.09 ug/l		96
75)	N-Butylbenzene	25.28	91	1340687	48.92 ug/l	#	49
76)	1,2-Dibromo-3-Chloropropan	29.48	75	125790	53.94 ug/l	m	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F02.D Vial: 1
Acq On : 14 Sep 98 10:38 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 14 11:53 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.53	180	723654	49.48 ug/l	97
78) Hexachlorobutadiene	31.86	225	286369	45.35 ug/l	93
79) Naphthalene	32.16	128	1966640	53.27 ug/l	100
80) 1,2,3-Trichlorobenzene	32.74	180	650573	48.96 ug/l	96

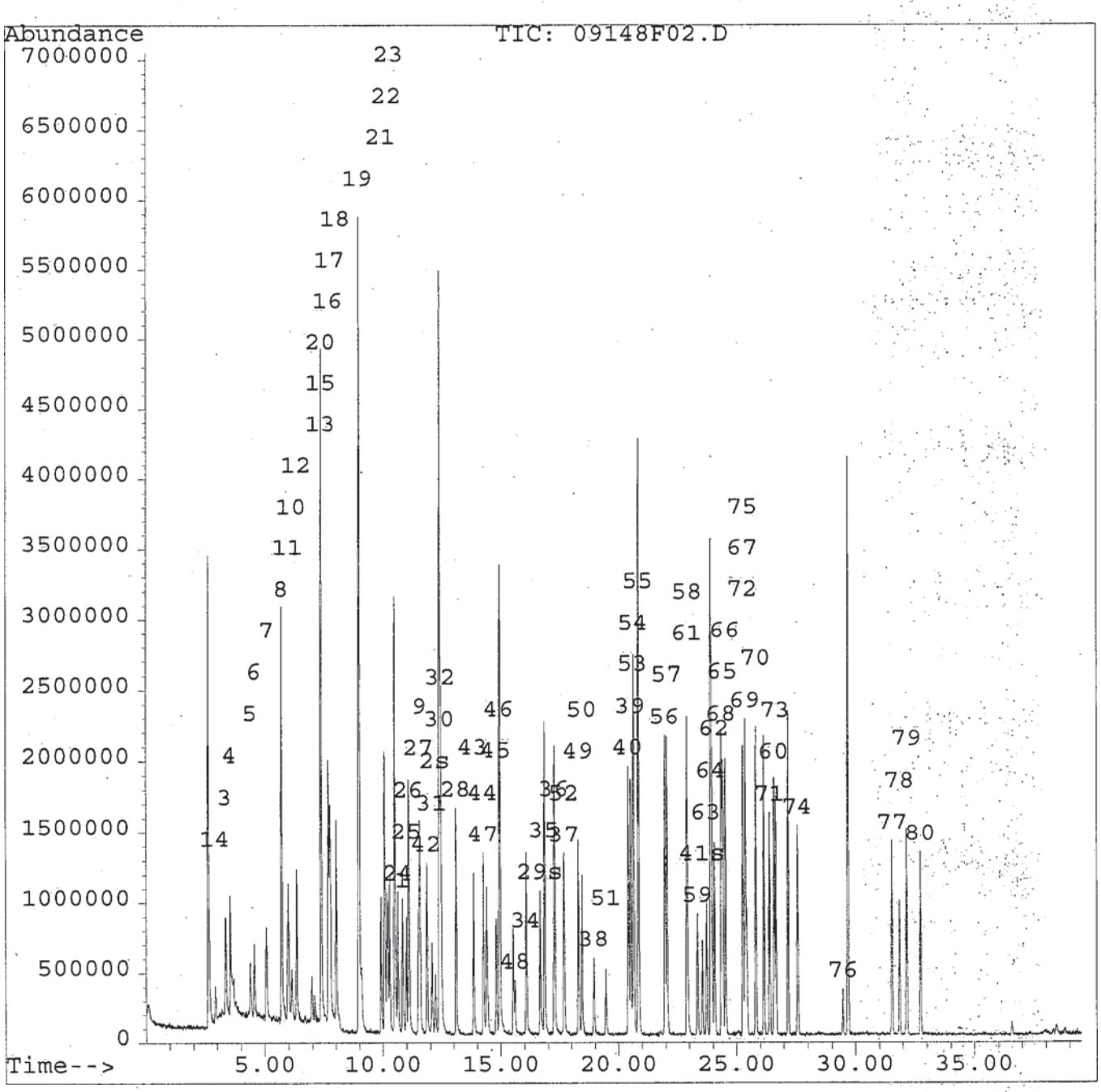
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F02.D
Acq On : 14 Sep 98 10:38
Sample : 50 PPB
Misc :
Quant Time: Sep 14 11:53 1998

Vial: 1
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration



Evaluate Continuing Calibration Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F13.D Vial: 8
Acq On : 14 Sep 98 20:58 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1		Pentafluorobenzene	1.000	1.000	0.0	112	0.04
2	s	1,2-Dichloroethane-D4	0.856	0.969	-13.2	129	0.05
3		Chloromethane	1.347	1.235	8.3	103	0.02
4		Vinyl Chloride	1.332	1.251	6.1	104	0.02
5		Bromomethane	0.530	0.550	-3.7	118	0.02
6		Chloroethane	0.788	0.803	-1.8	107	0.04
7		Trichlorofluoromethane	1.139	1.045	8.3	99	0.02
8		Ethyl Ether	0.727	0.757	-4.2	111	0.03
9		Acreolin	0.167	0.177	-6.0	120	0.04
10		2-Propanone (acetone)	0.266	0.305	-14.9	142	0.04
11		1,1,2-Trichloro-1,2,2-Trifl	0.480	0.465	3.2	107	0.03
12		1,1-Dichloroethylene	0.681	0.630	7.5	104	0.04
13		Carbon Disulfide	2.791	2.540	9.0	101	0.05
14		Dichlorodifluoromethane	0.575	0.512	11.0	96	0.02
15		Methylene Chloride	0.884	0.876	0.9	110	0.03
16		Acrylonitrile	0.382	0.387	-1.5	112	0.04
17		Methyl-t-Butyl Ether	2.636	2.564	2.7	109	0.04
18		Trans-1,2-Dichloroethylene	0.736	0.679	7.7	99	0.04
19		1,1-dichloroethane	1.285	1.432	-11.4	122	0.05
20		Vinyl Acetate	0.185	0.188	-2.0	122	0.03
21		2-Butanone (MEK)	0.385	0.436	-13.4	124	0.05
22		2,2-Dichloropropane	1.033	0.918	11.2	96	0.06
23		cis-1,2-Dichloroethylene	0.667	0.723	-8.4	117	0.05
24		Chloroform	1.153	1.265	-9.7	122	0.05
25		Bromochloromethane	0.300	0.313	-4.2	112	0.05
26		Tetrahydrofuran	0.066	0.084	-26.8#	144	0.03
27		1,1,1-Trichloroethane	0.882	0.840	4.7	107	0.05
28		1,4-Difluorobenzene	1.000	1.000	0.0	125	0.05
29	s	Toluene-D8	1.124	1.086	3.3	120	0.05
30		1,2-Dichloroethane	0.609	0.594	2.4	118	0.04
31		Carbon tetrachloride	0.350	0.297	15.2	99	0.05
32		Benzene	1.529	1.454	4.9	121	0.04
33		Fluorobenzene	1.693	0.000	100.0#	0#	-13.13#
34		c-1,3-dichloropropene	0.605	0.526	13.1	102	0.05
35		Toluene	1.427	1.373	3.8	119	0.04
36		t-1,3-Dichloropropene	0.543	0.489	9.9	102	0.05
37		1,1,2-Trichloroethane	0.258	0.285	-10.5	125	0.03
38		Dibromochloromethane	0.198	0.194	1.9	106	0.05
39		Chlorobenzene	0.573	0.559	2.4	118	0.05
40		Chlorobenzene-D5	1.000	1.000	0.0	113	0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F13.D Vial: 8
Acq On : 14 Sep 98 20:58 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
41	s	1,4-Bromofluorobenzene	0.564	0.546	3.3	112	0.05
42		1,1-Dichloropropene	0.579	0.597	-3.2	121	0.04
43		Trichloroethylene	0.364	0.390	-7.2	115	0.05
44		1,2-Dichloropropane	0.429	0.482	-12.4	126	0.06
45		Bromodichloromethane	0.500	0.523	-4.6	114	0.04
46		Dibromomethane	0.229	0.271	-18.7	126	0.04
47		2-Chloroethylvinylether	0.143	0.161	-12.4	126	0.06
48		4-Methyl-2-Pentanone(MIBK)	0.498	0.517	-3.8	110	0.04
49		1,3-Dichloropropane	0.707	0.808	-14.3	120	0.06
50		Tetrachloroethylene	0.331	0.340	-2.7	113	0.05
51		1,2-Dibromomethane	0.319	0.363	-13.8	119	0.02
52		2-Hexanone	0.296	0.277	6.5	104	0.04
53		1,1,1,2-Tetrachloroethane	0.292	0.285	2.4	104	0.05
54		Ethylbenzene	1.752	1.702	2.8	108	0.05
55		META/PARA XYLENE	0.655	0.624	4.8	108	0.04
56		Ortho Xylene	0.609	0.592	2.7	106	0.06
57		Styrene	1.051	1.023	2.7	105	0.05
58		BROMOFORM	0.175	0.153	12.6	92	0.06
59		1,1,2,2-Tetrachloroethane	0.457	0.537	-17.5	125	0.04
60		1,4-Dichlorobenzene-D4	1.000	1.000	0.0	113	0.04
61		Isopropylbenzene(ben1,methy	3.695	3.549	4.0	104	0.06
62		Bromobenzene	0.758	0.757	0.2	107	0.06
63		1,2,3-Trichloropropane	0.837	0.940	-12.3	108	0.04
64		N-Propylbenzene	4.795	4.810	-0.3	108	0.05
65		2-Chlorotoluene	0.769	0.779	-1.4	106	0.06
66		4-Chlorotoluene	2.904	2.903	0.1	109	0.05
67		Tert-Butylbenzene(ben-1,1-d	2.478	2.345	5.4	101	0.05
68		1,3,5-Trimethylbenzene	2.839	2.895	-2.0	108	0.04
69		1,2,4-Trimethylbenzene	2.900	2.881	0.7	104	0.03
70		Sec-Butylbenzene(Ben-1-Meth	3.732	3.580	4.1	102	0.05
71		1,3-dichlorobenzene	1.476	1.429	3.2	102	0.04
72		Para-Isopropyltoluene(ben-1	2.478	2.345	5.4	101	0.05
73		1,4-Dichlorobenzene	1.496	1.461	2.3	102	0.05
74		1,2-Dichlorobenzene	1.420	1.372	3.4	104	0.05
75		N-Butylbenzene	1.875	1.841	1.8	105	0.05
76		1,2-Dibromo-3-Chloropropane	0.160	0.158	1.3	105	0.05
77		1,2,4-Trichlorobenzene	1.001	0.874	12.7	94	0.05
78		Hexachlorobutadiene	0.432	0.381	11.8	101	0.05
79		Naphthalene	2.526	2.649	-4.9	107	0.04
80		1,2,3-Trichlorobenzene	0.909	0.806	11.3	94	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F13.D Vial: 8
Acq On : 14 Sep 98 20:58 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 16 16:24 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.85	168	948975	50.00 ug/l	0.04 112.60%
28) 1,4-Difluorobenzene	13.13	114	1919511	50.00 ug/l	0.05 127.97%
40) Chlorobenzene-D5	20.43	117	1598439	50.00 ug/l	0.04 122.17%
60) 1,4-Dichlorobenzene-D4	26.59	152	684594	50.00 ug/l	0.04 109.95%
System Monitoring Compounds					**%Recovery**
2) 1,2-Dichloroethane-D4	12.25	65	459779	28.30 ug/l	113.18%
29) Toluene-D8	16.69	98	1042387	24.17 ug/l	96.67%
41) 1,4-Bromofluorobenzene	23.58	95	436158	24.18 ug/l	96.72%
Target Compounds					**Qvalue**
3) Chloromethane	3.35	50	1171595	45.84 ug/l	92
4) Vinyl Chloride	3.55	62	1187237	46.96 ug/l	99
5) Bromomethane	4.39	94	521668	51.87 ug/l	95
6) Chloroethane	4.57	64	761613	50.90 ug/l #	20
7) Trichlorofluoromethane	5.08	101	991356	45.85 ug/l	92
8) Ethyl Ether	5.73	45	2156388	156.30 ug/l #	76
9) Acreolin	11.58	56	1682001	529.84 ug/l #	92
10) 2-Propanone (acetone)	6.15	43	579788	114.88 ug/l m	91
11) 1,1,2-Trichloro-1,2,2-Trif	6.01	151	441311	48.40 ug/l	100
12) 1,1-Dichloroethylene	6.36	96	597538	46.25 ug/l	95
13) Carbon Disulfide	7.39	76	7231233	136.52 ug/l	100
14) Dichlorodifluoromethane	2.92	85	486052	44.51 ug/l	93
15) Methylene Chloride	7.40	84	831364	49.55 ug/l	94
16) Acrylonitrile	7.70	53	1838260	253.68 ug/l m	90
17) Methyl-t-Butyl Ether	7.77	73	2433484	48.65 ug/l #	89
18) Trans-1,2-Dichloroethylene	8.03	96	644656	46.15 ug/l #	1
19) 1,1-dichloroethane	8.98	63	1359315	55.72 ug/l #	94
20) Vinyl Acetate	7.40	86	536215	153.03 ug/l #	1
21) 2-Butanone (MEK)	9.94	43	1656640	226.84 ug/l m	97
22) 2,2-Dichloropropane	10.21	77	871023	44.42 ug/l #	83
23) cis-1,2-Dichloroethylene	10.31	96	686028	54.20 ug/l	88
24) Chloroform	10.65	83	1200255	54.85 ug/l	99
25) Bromochloromethane	11.02	128	296883	52.10 ug/l	85
26) Tetrahydrofuran	11.12	71	557032	443.74 ug/l m	74
27) 1,1,1-Trichloroethane	11.54	97	797145	47.63 ug/l	97
30) 1,2-Dichloroethane	12.46	62	1141124	48.82 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F13.D Vial: 8
Acq On : 14 Sep 98 20:58 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 16 16:24 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.10	117	570261	42.40 ug/l	#	80
32)	Benzene	12.49	78	2791356	47.55 ug/l		100
34)	c-1,3-dichloropropene	16.11	75	1008706	43.46 ug/l		96
35)	Toluene	16.88	91	2635783	48.12 ug/l		93
36)	t-1,3-Dichloropropene	17.32	75	938985	45.07 ug/l		94
37)	1,1,2-Trichloroethane	17.69	83	546799	55.27 ug/l		87
38)	Dibromochloromethane	18.98	127	372745	49.07 ug/l		92
39)	Chlorobenzene	20.54	77	1073519	48.78 ug/l		86
42)	1,1-Dichloropropene	11.88	75	954785	51.60 ug/l	#	90
43)	Trichloroethylene	13.88	95	623940	53.58 ug/l		95
44)	1,2-Dichloropropane	14.29	63	770642	56.21 ug/l		97
45)	Bromodichloromethane	14.83	83	835519	52.30 ug/l		90
46)	Dibromomethane	14.95	93	433608	59.35 ug/l		96
47)	2-Chloroethylvinylether	14.29	63	770642	168.63 ug/l		90
48)	4-Methyl-2-Pentanone(MIBK)	15.63	43	413448	25.95 ug/l	m	100
49)	1,3-Dichloropropane	18.32	76	1291911	57.14 ug/l		93
50)	Tetrachloroethylene	18.48	166	543548	51.36 ug/l		98
51)	1,2-Dibromomethane	19.48	107	580666	56.89 ug/l		95
52)	2-Hexanone	17.73	43	279052	29.45 ug/l	m	87
53)	1,1,1,2-Tetrachloroethane	20.64	131	455965	48.78 ug/l		95
54)	Ethylbenzene	20.67	91	2720539	48.58 ug/l		99
55)	META/PARA XYLENE	20.86	106	1994158	95.19 ug/l		88
56)	Ortho Xylene	21.99	106	947067	48.67 ug/l		98
57)	Styrene	22.08	104	1634966	48.66 ug/l		93
58)	BROMOFORM	22.97	173	244276	43.71 ug/l		99
59)	1,1,2,2-Tetrachloroethane	23.36	83	857826	58.73 ug/l		94
61)	Isopropylbenzene(ben1,meth	22.93	105	2429582	48.02 ug/l		93
62)	Bromobenzene	24.08	156	518001	49.89 ug/l		97
63)	1,2,3-Trichloropropane	23.75	75	643408	56.17 ug/l	m	1
64)	N-Propylbenzene	23.97	91	3292633	50.16 ug/l		95
65)	2-Chlorotoluene	24.43	126	533584	50.68 ug/l		100
66)	4-Chlorotoluene	24.55	91	1987345	49.97 ug/l		95
67)	Tert-Butylbenzene(ben-1,1-	25.28	119	1605676	47.32 ug/l		94
68)	1,3,5-Trimethylbenzene	24.38	105	1981945	50.99 ug/l		95
69)	1,2,4-Trimethylbenzene	25.38	105	1972001	49.67 ug/l		93
70)	Sec-Butylbenzene(Ben-1-Met	25.83	105	2450669	47.96 ug/l		98
71)	1,3-dichlorobenzene	26.41	146	978071	48.40 ug/l		96
72)	Para-Isopropyltoluene(ben-	25.28	119	1605676	47.32 ug/l	#	49
73)	1,4-Dichlorobenzene	26.68	146	1000452	48.84 ug/l		97
74)	1,2-Dichlorobenzene	27.59	146	939449	48.31 ug/l		95
75)	N-Butylbenzene	25.29	91	1260291	49.09 ug/l	#	50
76)	1,2-Dibromo-3-Chloropropan	29.48	75	107852	49.37 ug/l	m	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F13.D Vial: 8
Acq On : 14 Sep 98 20:58 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 16 16:24 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title : ,
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.55	180	598248	43.66 ug/l	99
78) Hexachlorobutadiene	31.87	225	260986	44.12 ug/l m	98
79) Naphthalene	32.18	128	1813664	52.44 ug/l	100
80) 1,2,3-Trichlorobenzene	32.75	180	551881	44.33 ug/l #	95

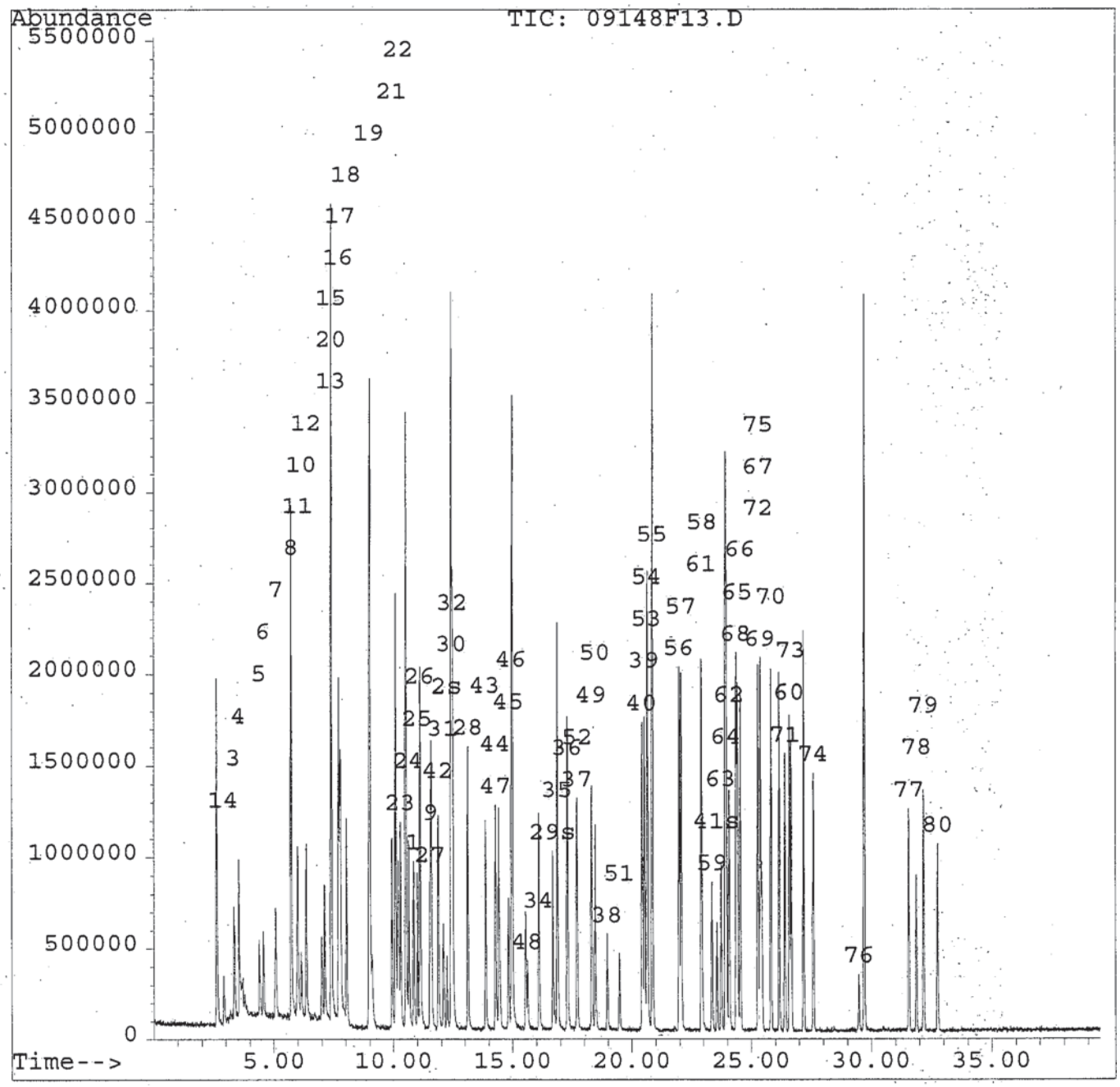
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F13.D
Acq On : 14 Sep 98 20:58
Sample : 50 PPB
Misc :
Quant Time: Sep 16 16:24 1998

Vial: 8
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration



8/11/98	V3-7-9-98 A,B,P	DW	10 PPb	(DW, 50B)
	V3-5-4-98F		10ul to 100ml	
	MDL 524.2 Study			
8/12/98	V3-7-9-98A,B,D	DW	10 PPb	(DW, 50B)
	V3-5-4-98F		10ul to 100ml	
	Otis AFB			
9/2/98	V3-7-9-98 A,B,C	HW	5, 10, 20, 50, 100 PPb	(HW, 50B)
	V3-7-28-98 E (custom)		5ul, 10ul, 20ul, 50ul, 100ul to 100ml	
	Otis AFB			
9/3/98	V3-7-9-98 A,B,C	HW	50 PPb	(HW, 50B)
	V3-7-28-98 E (Custom)		50ul to 100ml	
	Otis AFB			
9/8/98	V3-7-9-98 A,B,D		1, 2, 5, 10, 20	(DW, 50B
	V3-7-28-98 E (custm)		2ul to 200ml	
	Lutmyvalley		2ul, 5ul, 10ul, 20ul to 100ml	
9/9/98	V3-7-9-98 A,B,C		50 PPb	(HW, 50B)
	V3-7-28-98 E (custm)		50ul to 100ml	
9/14/98	V3-7-9-98 A,B,C		50 PPb	(HW, 50B)
	V3-7-28-98 F (custm)		50ul to 100ml	

Sequence Parameters - UNNAMED.SEQ
Mon Sep 14 12:17:31 1998

Operator :
Minimum Storage : 8MB
Syringe Size : 10µL
Pre-Sequence Macro :
Post-Sequence Macro :
Comment :

Sample Table :

Vial	Name	Description	Account	Dil	Type	Group
1	07598 TRIP NWIRP			1	Unk	
2	METHOD BLA NWIRP			1	Unk	

Sequence Table :

Start	End	Inj/Vial	Vol(µL)	Prefix	Method	Macro	Macro Parameters	Comment
1	2	1	1	8F	8260	09088DW.M\BFB.CMD		

Sequence Parameters - UNNAMED.SEQ
Mon Sep 14 14:17:09 1998

Operator :
Minimum Storage : 8MB
Syringe Size : 10µL
Pre-Sequence Macro :
Post-Sequence Macro :
Comment :

Sample Table :

Vial	Name	Description	Account	Dil	Type	Group
1	07597 25X	NWIRP		1	Unk	
2	07600 25X	NWIRP		1	Unk	
3	07599 25X	NWIRP		1	Unk	
4	07597 MS 2	NWIRP		1	Unk	
5	07597 MSD	NWIRP		1	Unk	
6	07597FF	NWIRP		1	Unk	
7	07600FF	NWIRP		1	Unk	
8	50 PPB			1	Unk	
9	HEAT			1	Unk	

Sequence Table :

Start	End	Inj/Vial	Vol(µL)	Prefix	Method	Macro	Macro Parameters	Comment
1	8	1	1	8F	8260	09088DW.M\BFB.CMD		
9	9	1	1	8F	CLEAN			

Date	Vial	File name	Sample ID	Ant.	Comments
9/2/98	1	09028F01	LAB Blank	5ml Purge	
Sep 2	1	02	5 PPb		
OTTS	1	03	10 PPb		
98685	1	04	20 PPb		
	1	05	50 PPb		
	1	06	100PPb		
9/3/98	1	09038F02	LAB Blank	5ml Purge	EMU - 1254 - [illegible]
Sep 3	1	03	50 PPb		EMU - @ 1202 7/9
OTTS	2	04	LAB Blank		
98685	2	05	Trip Blank		
	3	06	KVDP-1		
	4	07	KVDP-2 50X		
	5	08	KVDP-3		
	6	09	KVDP-4 5X		
	7	10	KVDP-5 25X		
	8	11	KVDP-6		
	9	12	KVDP-7		
	10	13	KVDP-8 25X		
	11	14	KVDP-9		
	12	15	KVDP-10 5X		
	13	16	KVDP-1 MS		
	14	17	KVDP-1 MSD		
	1	18	50PPb		
9/8/98	1	09088F01	LAB Blank	25ml Purge	
Sep 08	1	02	1 PPb		
Kotney Kelly	1	03	2 PPb		
98726	1	04	5 PPb		
DW	1	05	10 PPb		
	1	06	20 PPb		
	1	07	10 PPb		

15	0.5 PPb LC		
16	10 PPb		
17	R-13 8/5/98 Blank		
09098F01	LAB Blank	Soil Purge	BFB
02	50 PPb		
03	LAB Blank		
04	Method Blank		
05	06885 Trip B		
06	08740 50X		
07	08741 50X		
08	08743 50X		
09	08742 250X		
10	08741 MS 50X		V3-9-9-98A Spike Sol.
11	08741 MSD 50X		V3-9-9-98A Spike Sol.
12	08745		BAS PES 0003345
13	50 PPb		
09148F01	LAB Blank	Soil Purge	
02	50 PPb		
03	LAB Blank		
04	07598 Trip Blank		
05	Method Blank 25X		
06	07597 25X		
07	07600 25X		
08	07599 25X		
09	07597 MS 25X		V3-9-9-98A Spike Sol.
10	07597 MSD 25X		V3-9-9-98A Spike Sol.
11	07597 FF 25X		
12	07600 FF 25X		
13	50 PPb		

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F03.D Vial: 2
Acq On : 14 Sep 98 11:32 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 14 12:16 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	1071333	50.00 ug/l	0.02 127.12%
28) 1,4-Difluorobenzene	13.10	114	2023308	50.00 ug/l	0.02 134.89%
40) Chlorobenzene-D5	20.43	117	1728719	50.00 ug/l	0.03 132.13%
60) 1,4-Dichlorobenzene-D4	26.58	152	737176	50.00 ug/l	0.02 118.40%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.23	65	471249	25.69 ug/l	102.76%
29) Toluene-D8	16.68	98	1073339	23.61 ug/l	94.43%
41) 1,4-Bromofluorobenzene	23.57	95	444776	22.80 ug/l	91.20%

Target Compounds					Qvalue
10) 2-Propanone (acetone)	6.13	43	41009	7.20 ug/l #	55
13) Carbon Disulfide	7.37	76	20105	0.34 ug/l	100
24) Chloroform	10.63	83	15122	0.61 ug/l #	19
39) Chlorobenzene	20.43	77	13182	0.57 ug/l #	1
63) 1,2,3-Trichloropropane	23.57	75	208872	16.93 ug/l #	1
79) Naphthalene	32.16	128	23648	0.64 ug/l	100

$$\frac{(41009)(50)}{(1071333)(.266)} = 7.19 \text{ ug/L}$$ BB 9/23/98

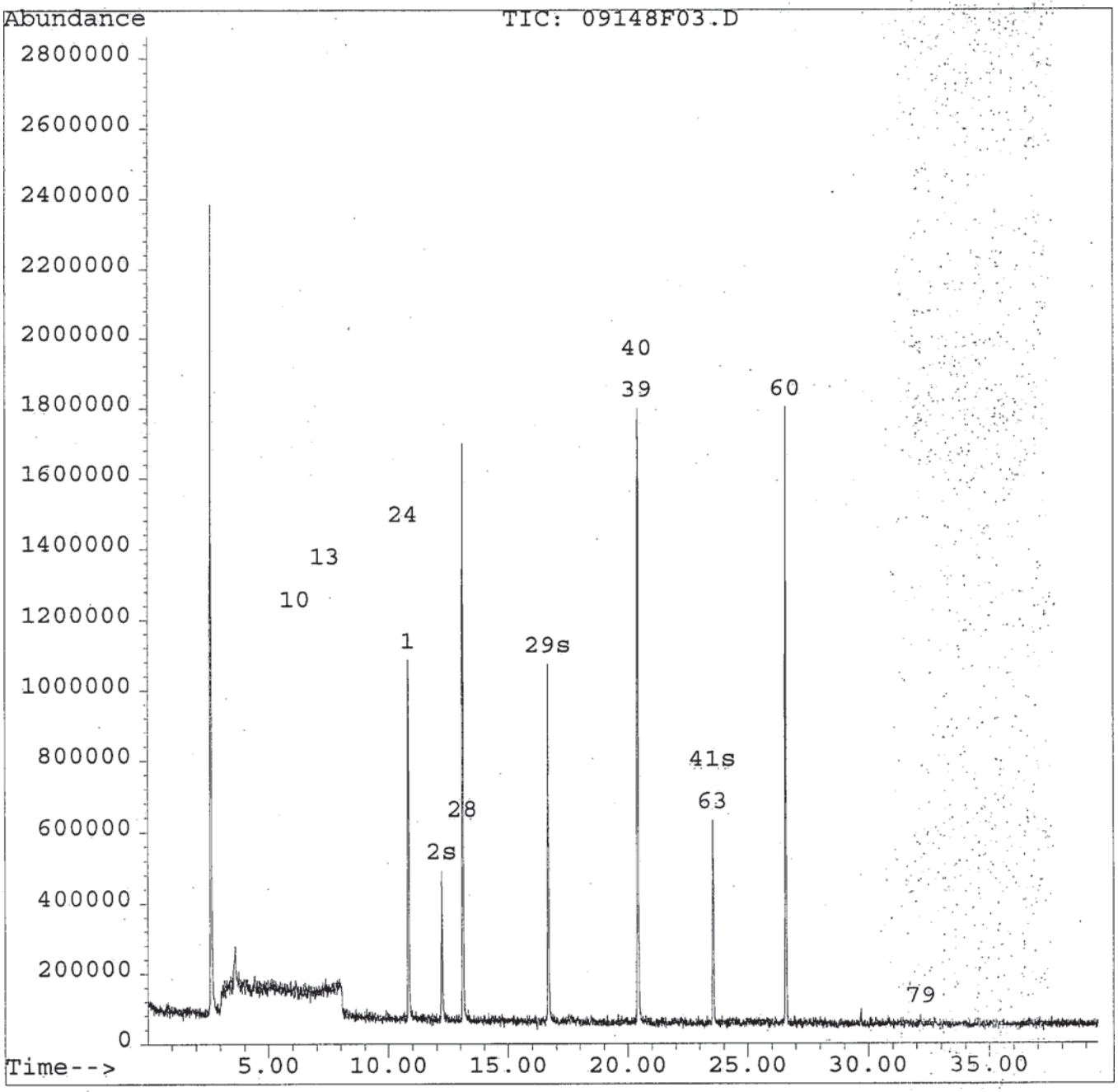
(#) = qualifier out of range (m) = manual integration

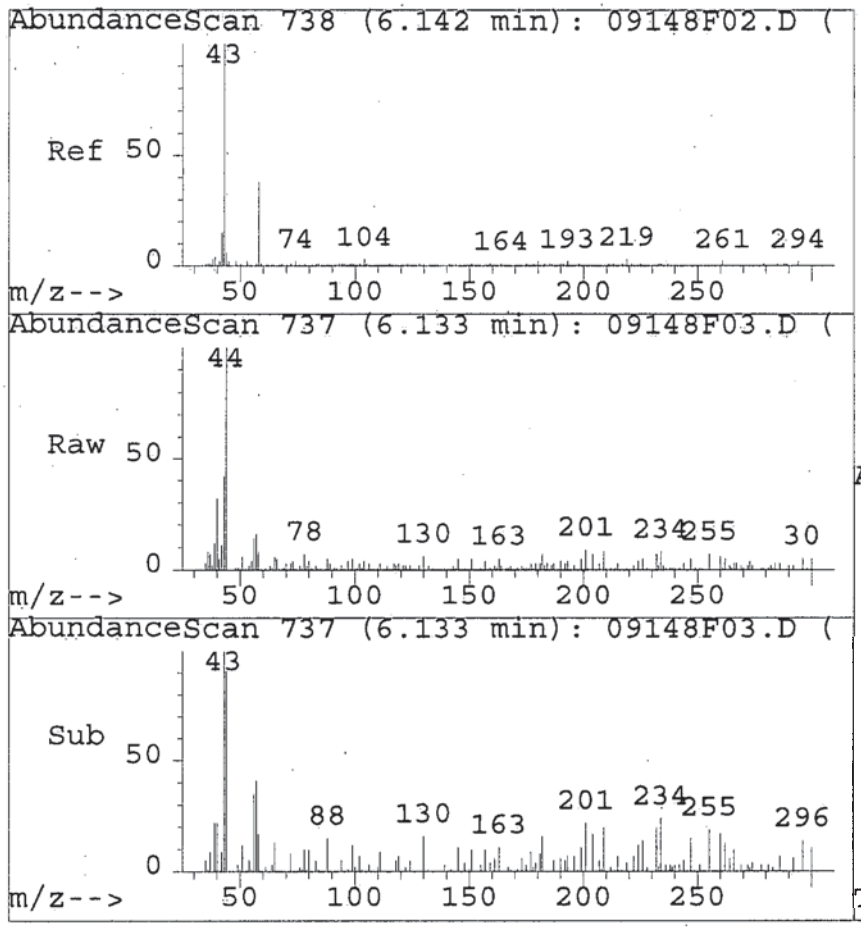
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F03.D
Acq On : 14 Sep 98 11:32
Sample : LAB BLANK
Misc : NWIRP
Quant Time: Sep 14 12:16 1998

Vial: 2
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

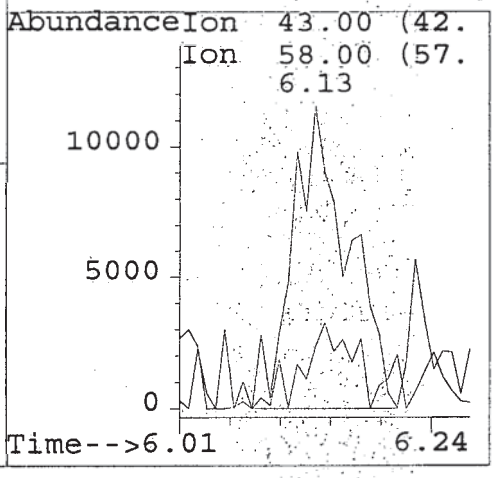


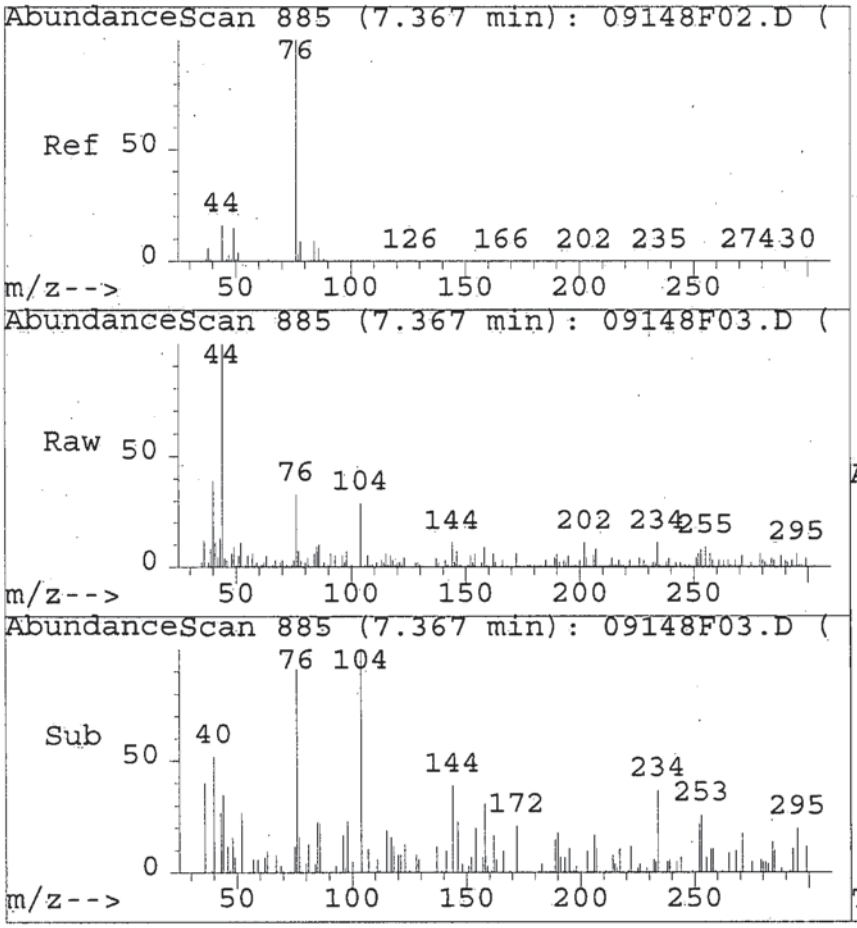


#10
2-Propanone (acetone)
Concen: 7.20 ug/l
RT: 6.13 min Scan# 737
Delta R.T. 0.02 min
Lab File: 09148F03.D
Acq: 14 Sep 98 11:32

Tgt Ion:43 Resp: 41009

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	25.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

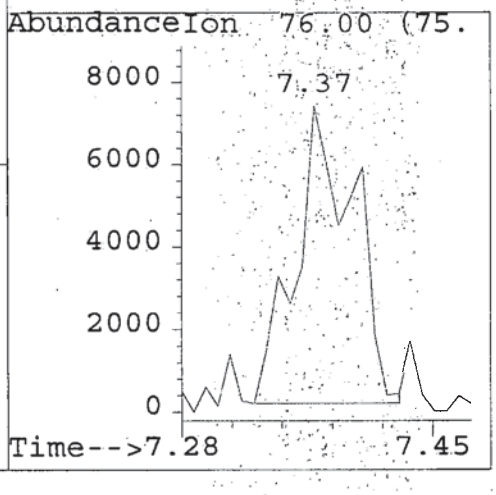


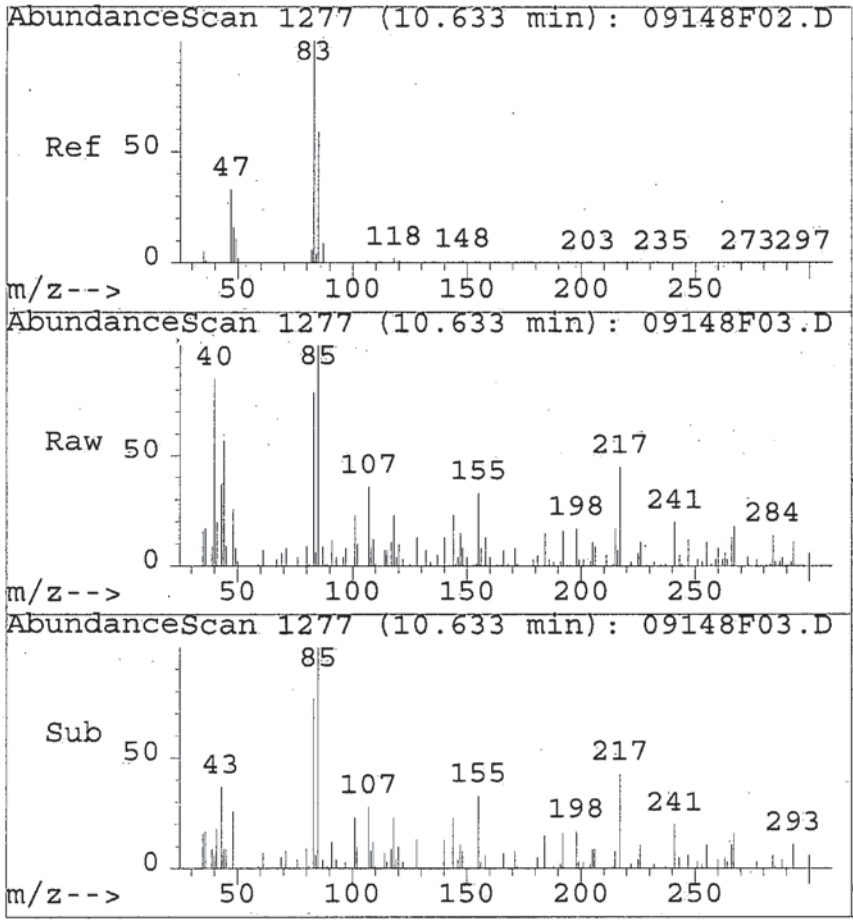


#13
Carbon Disulfide
Concen: 0.34 ug/l
RT: 7.37 min Scan# 885
Delta R.T. 0.02 min
Lab File: 09148F03.D
Acq: 14 Sep 98 11:32

Tgt Ion:76 Resp: 20105

Ion	Ratio	Lower	Upper
76	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

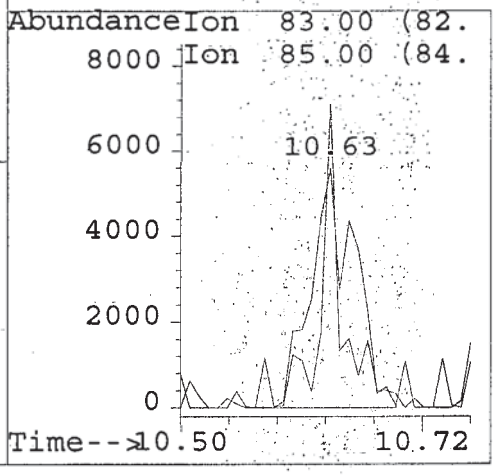


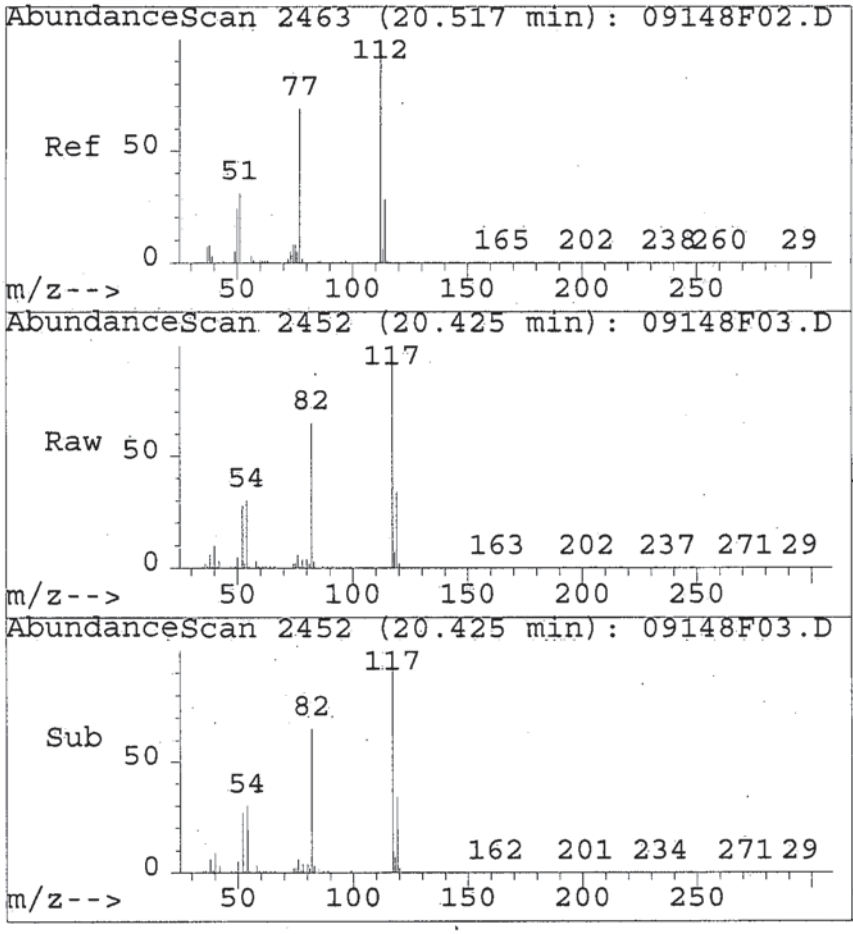


#24
Chloroform
Concen: 0.61 ug/l
RT: 10.63 min Scan# 1277
Delta R.T. 0.03 min
Lab File: 09148F03.D
Acq: 14 Sep 98 11:32

Tgt Ion:83 Resp: 15122

Ion	Ratio	Lower	Upper
83	100		
85	0.0	49.8	74.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

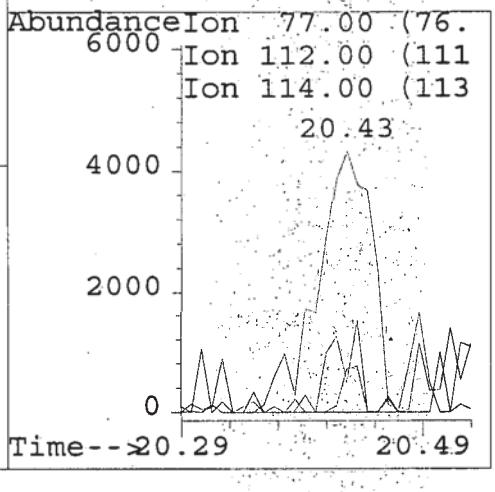


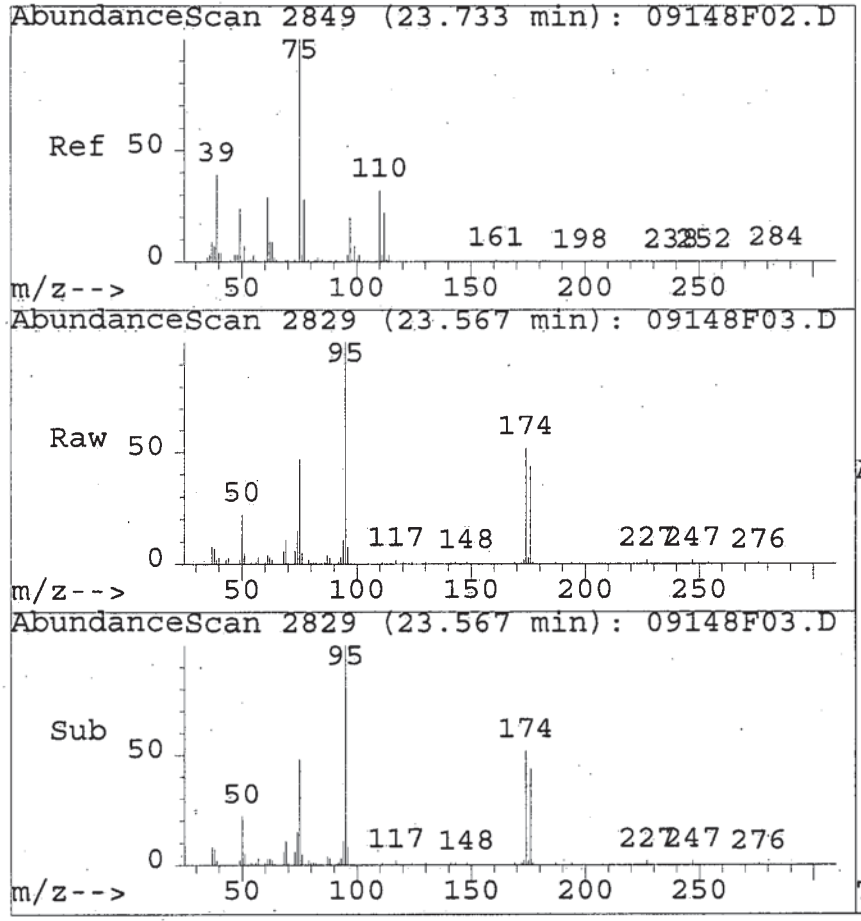


#39
Chlorobenzene
Concen: 0.57 ug/l
RT: 20.43 min Scan# 2452
Delta R.T. -0.07 min
Lab File: 09148F03.D
Acq: 14 Sep 98 11:32

Tgt Ion:77 Resp: 13182

Ion	Ratio	Lower	Upper
77	100		
112	0.0	101.0	151.6#
114	0.0	33.6	50.4#
0	0.0	0.0	0.0

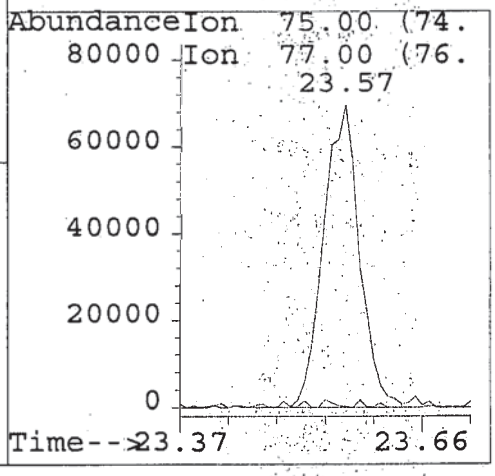


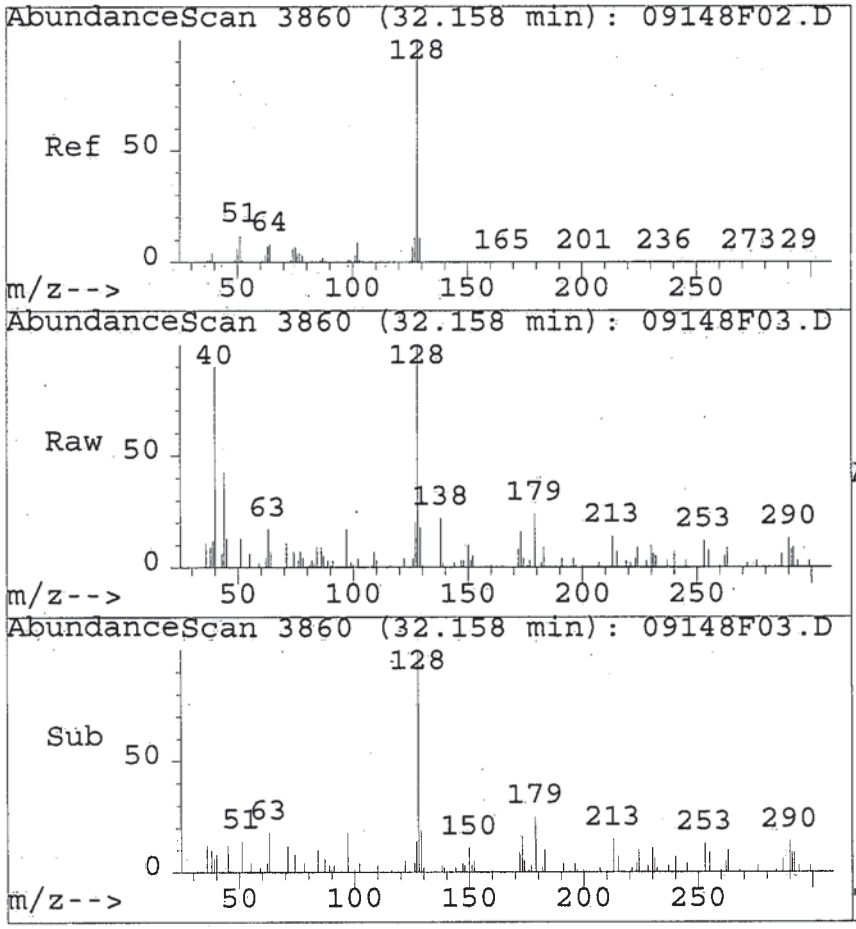


#63
1,2,3-Trichloropropane
Concen: 16.93 ug/l
RT: 23.57 min Scan# 2829
Delta R.T. -0.14 min
Lab File: 09148F03.D
Acq: 14 Sep 98 11:32

Tgt Ion:75 Resp: 208872

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

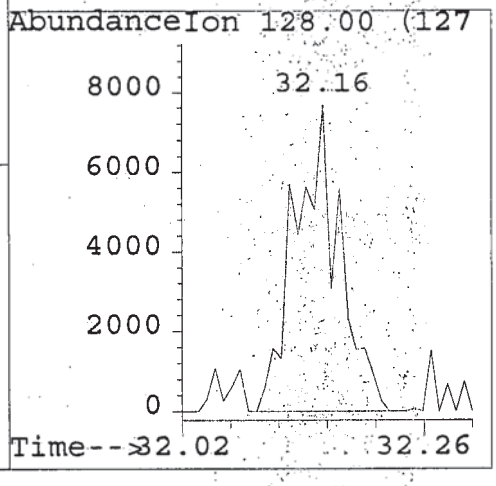




#79
Naphthalene
Concen: 0.64 ug/l
RT: 32.16 min Scan# 3860
Delta R.T. 0.02 min
Lab File: 09148F03.D
Acq: 14 Sep 98 11:32

Tgt Ion:128 Resp: 23648

Ion	Ratio	Lower	Upper
128	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



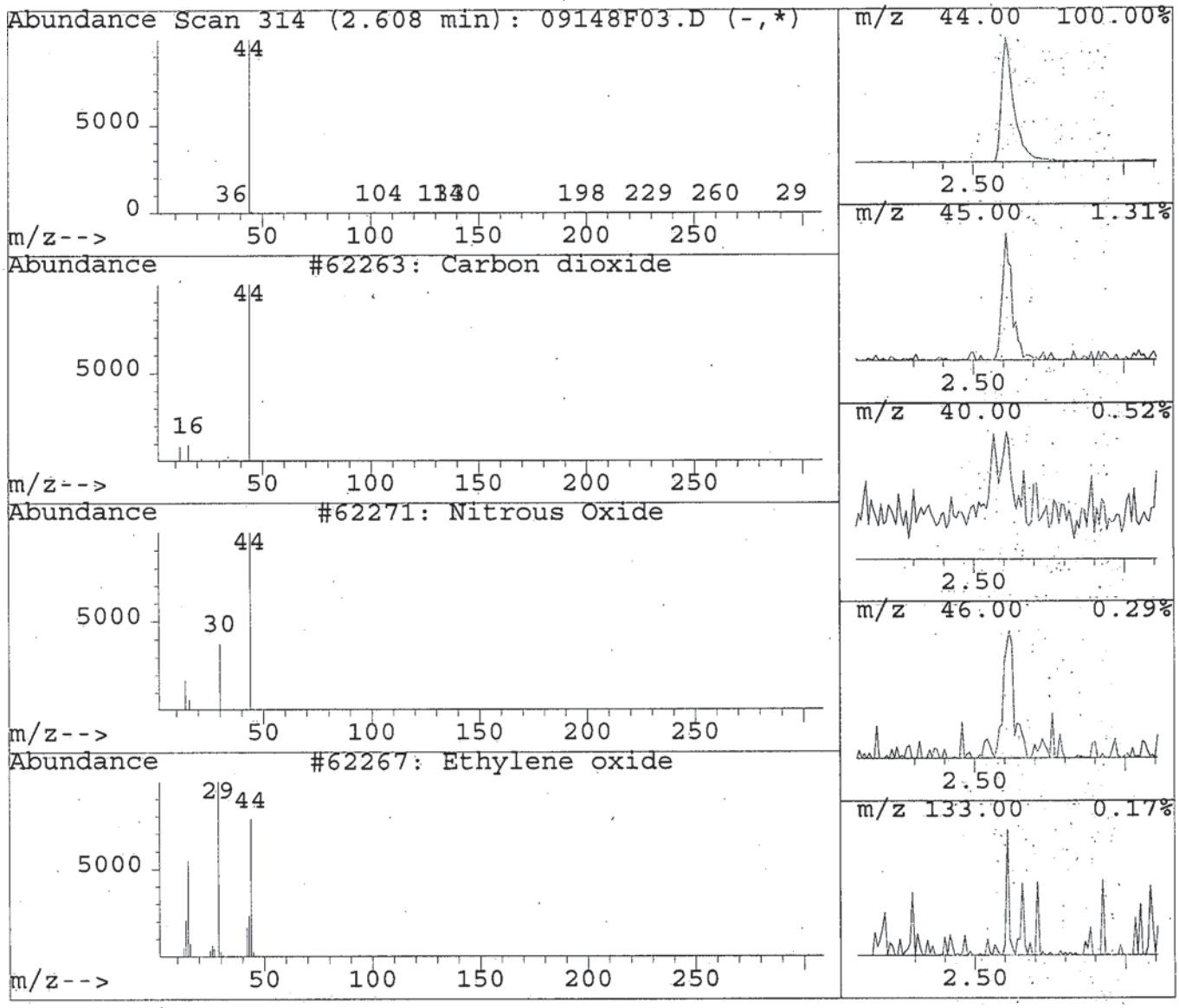
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F03.D Vial: 2
Acq On : 14 Sep 98 11:32 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.61	96.86 ug/l	6458680	Pentafluorobenzene	3334199	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Nitrous Oxide	62271	010024-97-2	3
3	Ethylene oxide	62267	000075-21-8	2
4	Acetaldehyde	62265	000075-07-0	2
5	Ethyne, fluoro-	35	002713-09-9	2



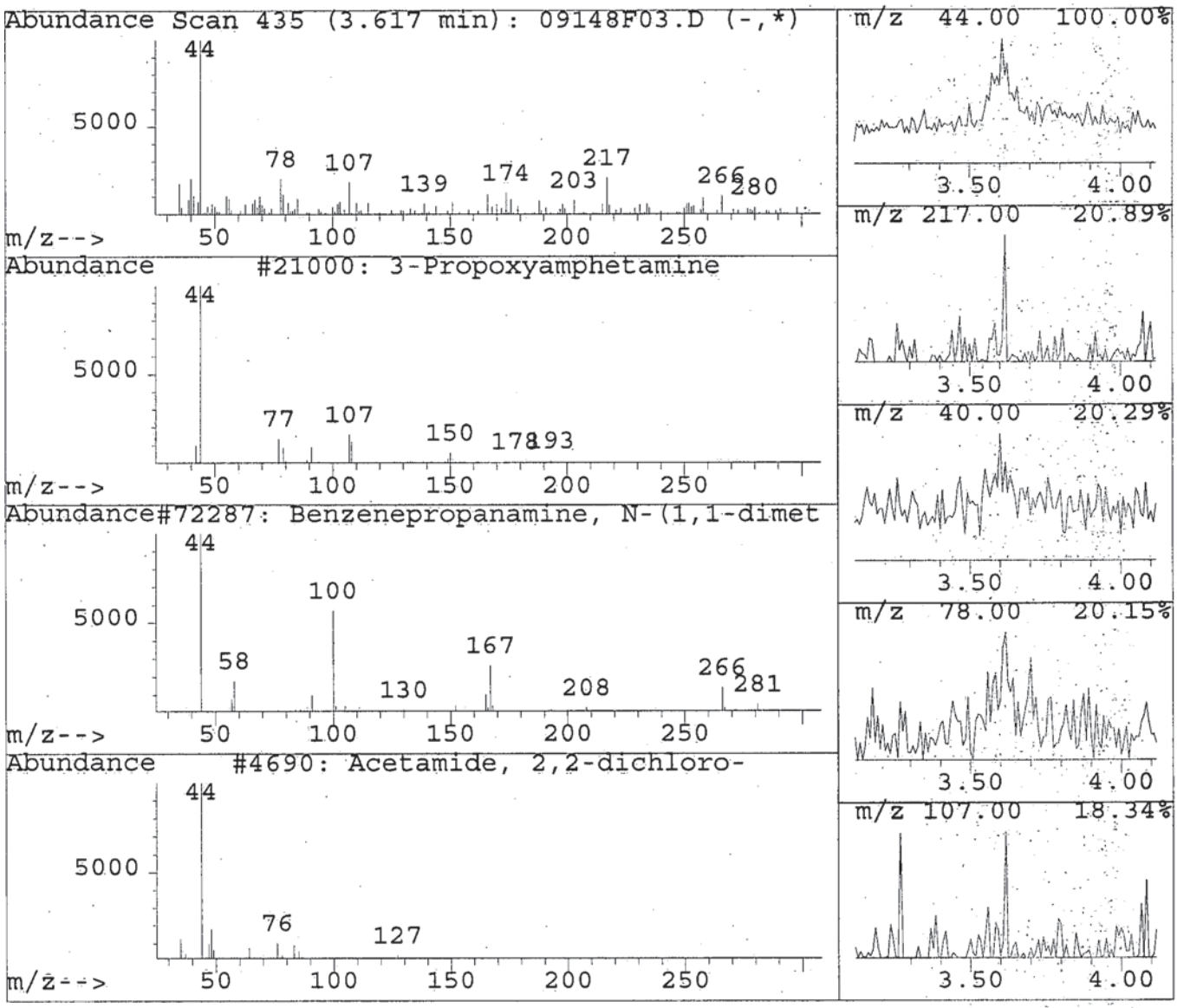
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F03.D Vial: 2
Acq On : 14 Sep 98 11:32 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.62	8.55 ug/l	570156	Pentafluorobenzene	3334199	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Propoxyamphetamine	21000	000000-00-0	43
2	Benzenepropanamine, N-(1,1-dimethyl	72287	015793-40-5	38
3	Acetamide, 2,2-dichloro-	4690	000683-72-7	25
4	Pregn-5-en-3-ol, 20-amino-, (3.beta	45271	005035-10-9	25
5	2-Heptanol, 6-amino-2-methyl-	8644	000372-66-7	25



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F05.D Vial: 2
Acq On : 14 Sep 98 13:24 Operator:
Sample : METHOD BLANK 25X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 14 14:19 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.84	168	818983	50.00 ug/l	0.03 97.18%
28) 1,4-Difluorobenzene	13.11	114	1605116	50.00 ug/l	0.03 107.01%
40) Chlorobenzene-D5	20.43	117	1578818	50.00 ug/l	0.04 120.67%
60) 1,4-Dichlorobenzene-D4	26.59	152	730753	50.00 ug/l	0.04 117.37%
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.23	65	332961	23.74 ug/l	94.97%
29) Toluene-D8	16.68	98	943738	26.17 ug/l	104.66%
41) 1,4-Bromofluorobenzene	23.57	95	421034	23.63 ug/l	94.52%
Target Compounds					Qvalue
3) Chloromethane	3.93	50	10417	0.47 ug/l #	47
10) 2-Propanone (acetone)	6.25	43	23702	5.44 ug/l #	55
21) 2-Butanone (MEK)	9.99	43	10294	1.63 ug/l #	61
24) Chloroform	10.65	83	12278	0.65 ug/l #	19
39) Chlorobenzene	20.43	77	12143	0.66 ug/l #	1
63) 1,2,3-Trichloropropane	23.58	75	221540	18.12 ug/l #	1

$RL = \frac{(5)(x)(10)}{(4.098)(1000)} = 0.30$

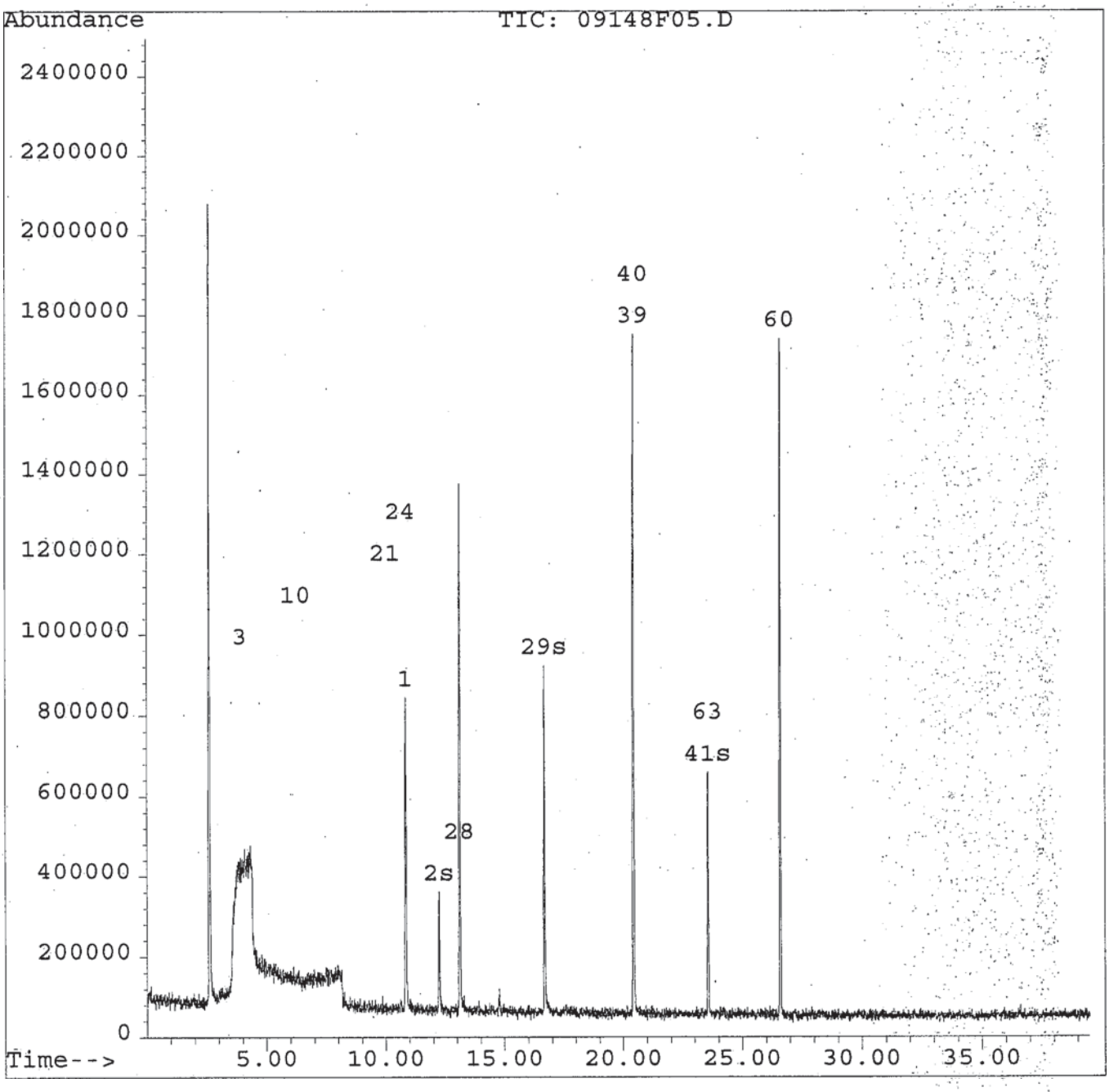
(#) = qualifier out of range (m) = manual integration

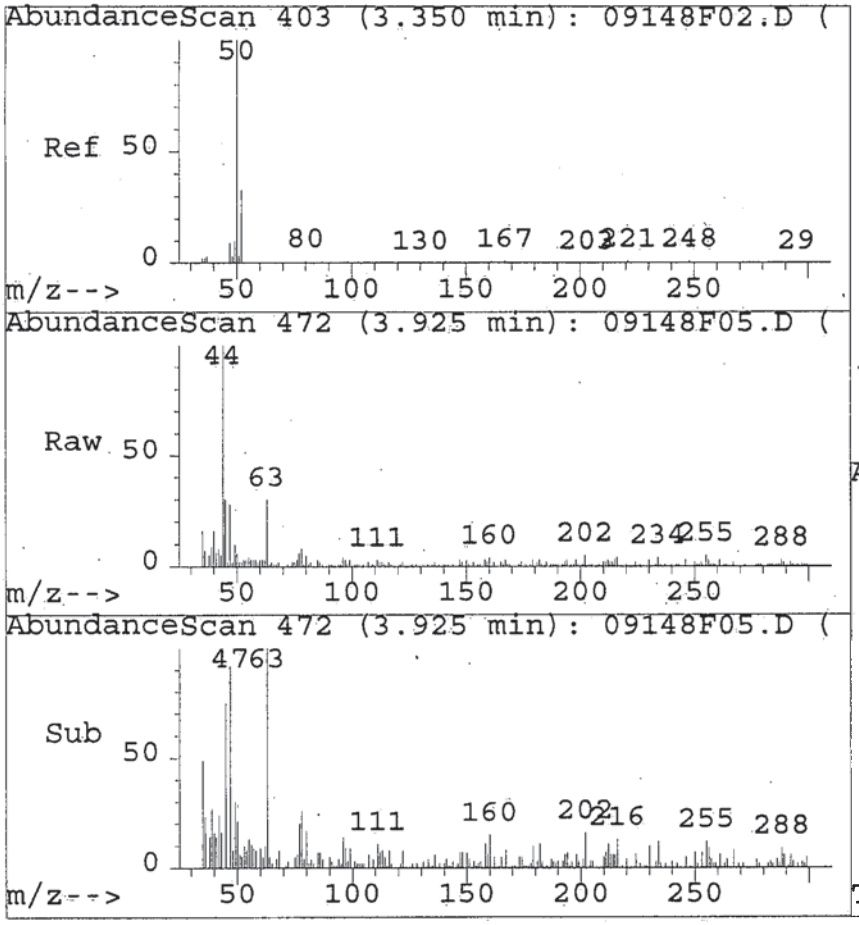
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F05.D
Acq On : 14 Sep 98 13:24
Sample : METHOD BLANK 25X
Misc : NWIRP
Quant Time: Sep 14 14:19 1998

Vial: 2
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

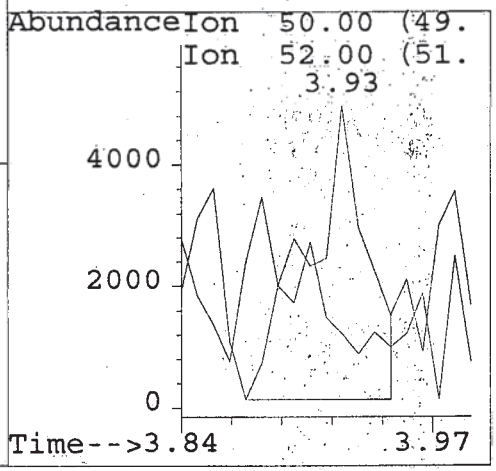


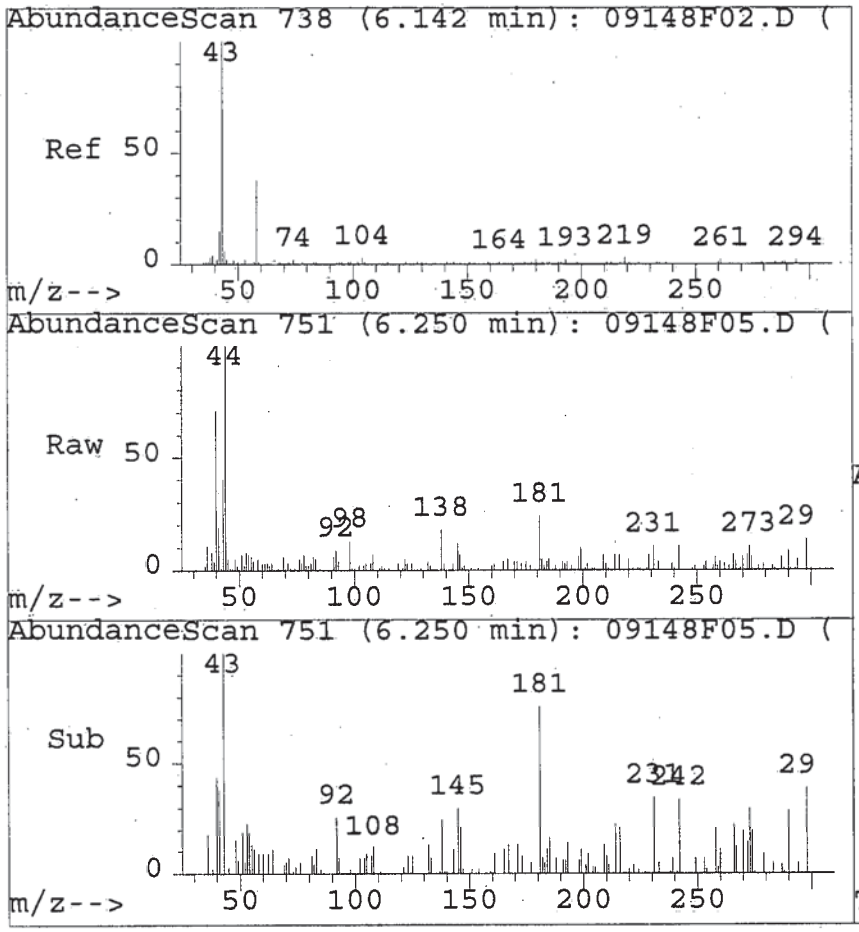


#3
Chloromethane
Concen: 0.47 ug/l
RT: 3.93 min Scan# 472
Delta R.T. 0.60 min
Lab File: 09148F05.D
Acq: 14 Sep 98 13:24

Tgt Ion:50 Resp: 10417

Ion	Ratio	Lower	Upper
50	100		
52	0.0	22.4	33.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

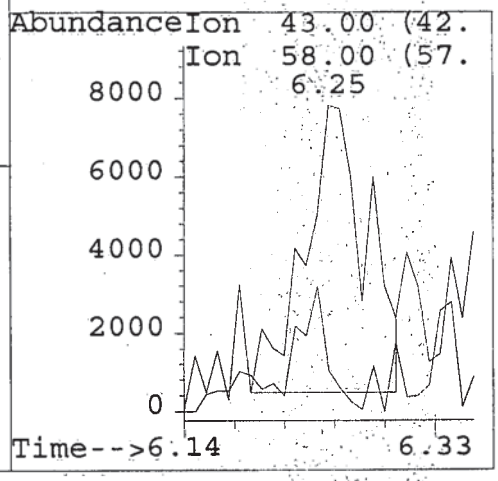


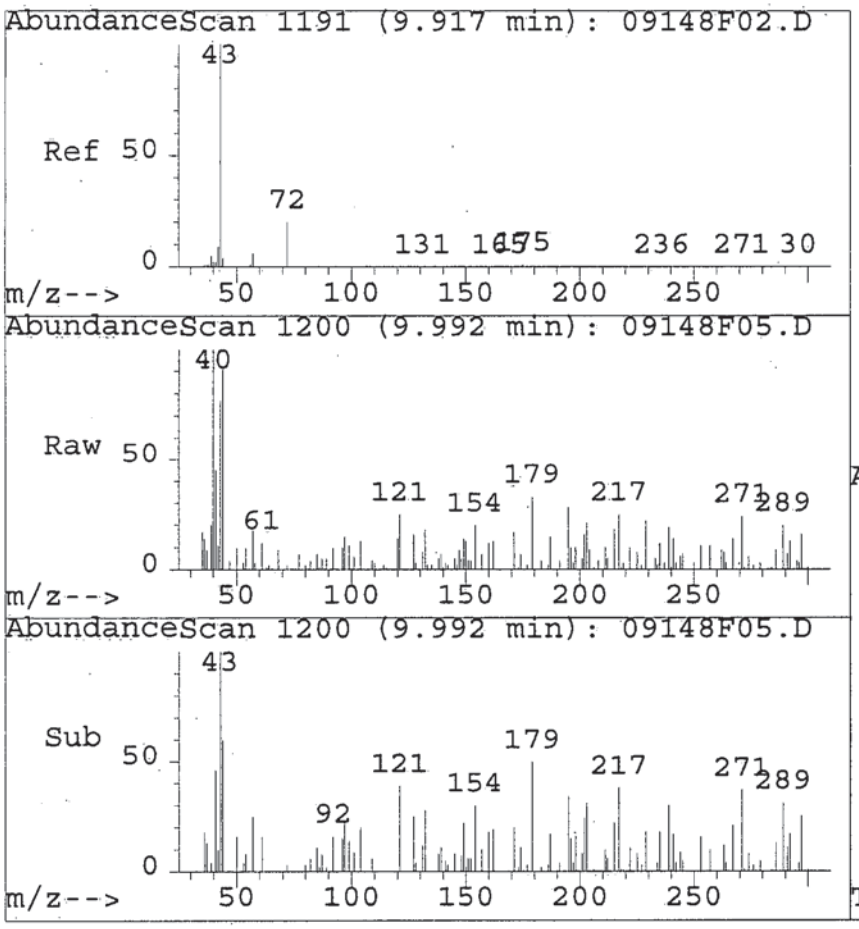


#10
2-Propanone (acetone)
Concen: 5.44 ug/l
RT: 6.25 min Scan# 751
Delta R.T. 0.14 min
Lab File: 09148F05.D
Acq: 14 Sep 98 13:24

Tgt Ion:43 Resp: 23702

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	25.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

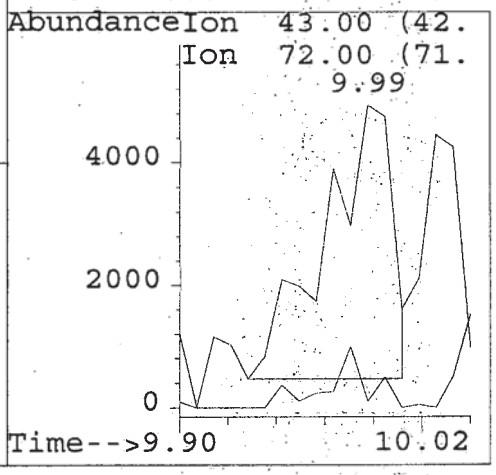


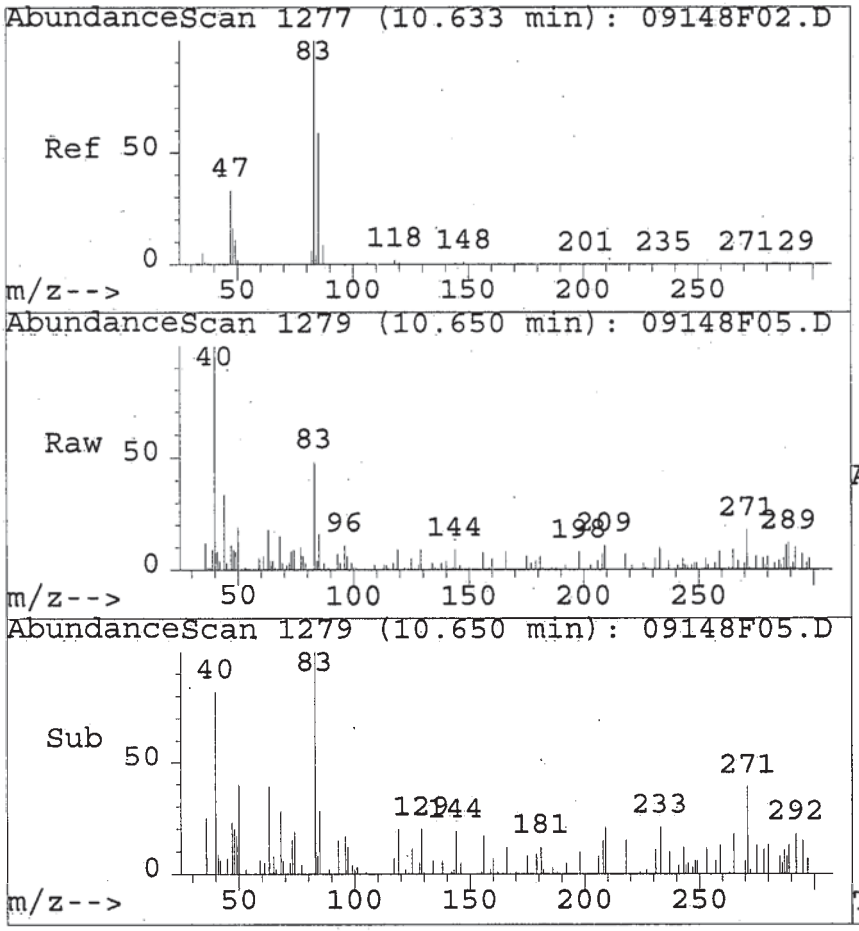


#21
2-Butanone (MEK)
Concen: 1.63 ug/l
RT: 9.99 min Scan# 1200
Delta R.T. 0.10 min
Lab File: 09148F05.D
Acq: 14 Sep 98 13:24

Tgt Ion:43 Resp: 10294

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	19.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

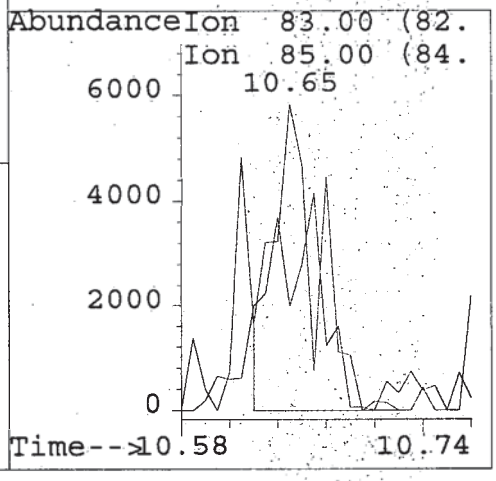


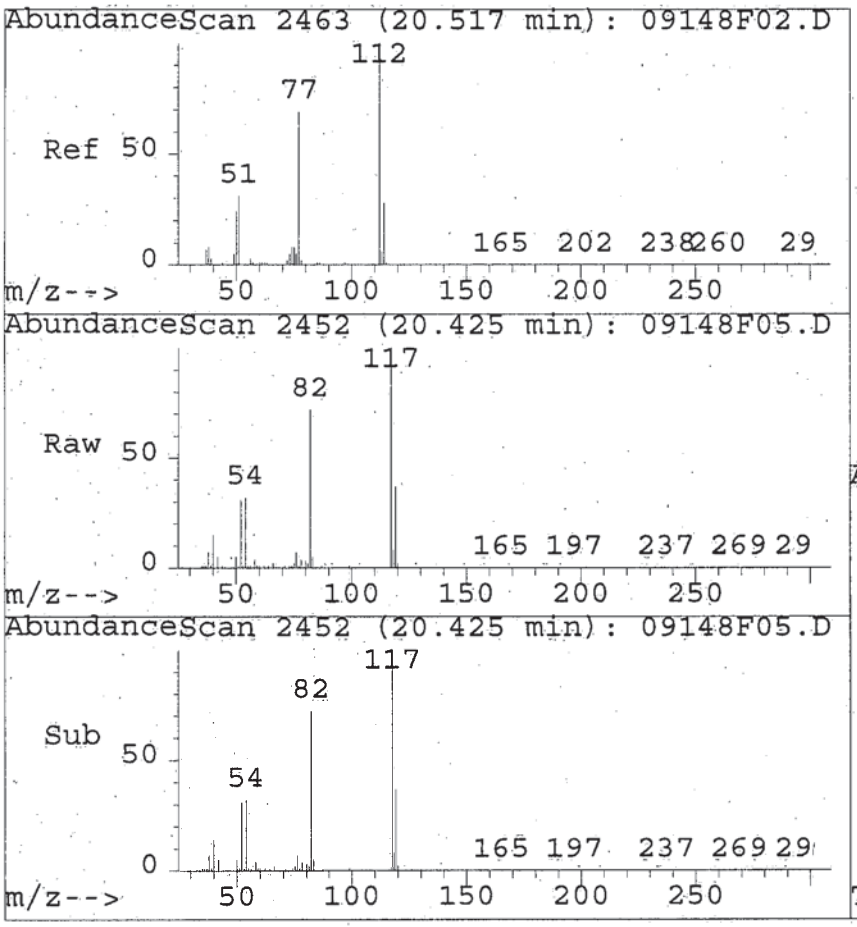


#24
Chloroform
Concen: 0.65 ug/l
RT: 10.65 min Scan# 1279
Delta R.T. 0.05 min
Lab File: 09148F05.D
Acq: 14 Sep 98 13:24

Tgt Ion:83 Resp: 12278

Ion	Ratio	Lower	Upper
83	100		
85	0.0	49.8	74.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

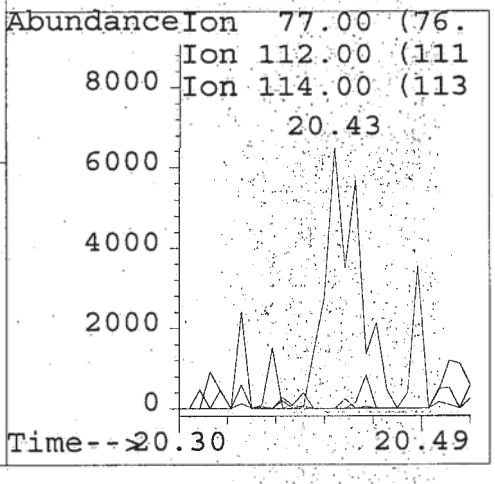


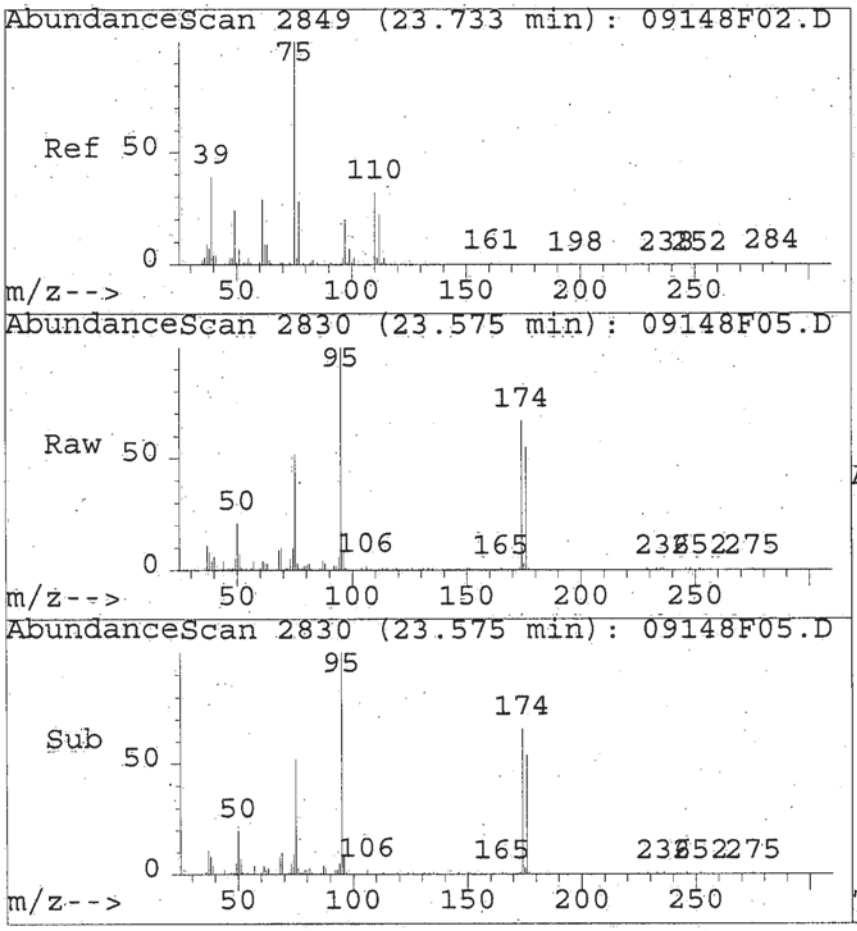


#39
Chlorobenzene
Concen: 0.66 ug/l
RT: 20.43 min Scan# 2452
Delta R.T. -0.07 min
Lab File: 09148F05.D
Acq: 14 Sep 98 13:24

Tgt Ion:77 Resp: 12143

Ion	Ratio	Lower	Upper
77	100		
112	0.0	101.0	151.6#
114	0.0	33.6	50.4#
0	0.0	0.0	0.0

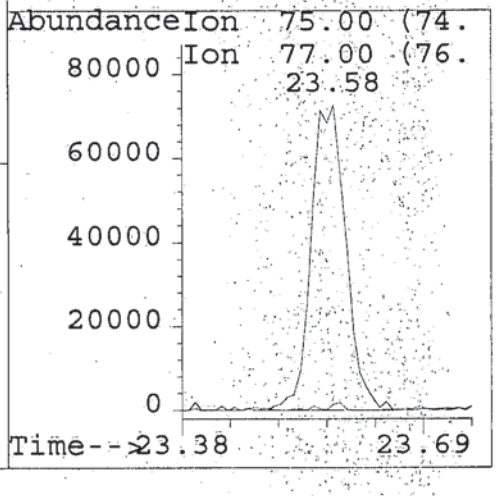




#63
1,2,3-Trichloropropane
Concen: 18.12 ug/l
RT: 23.58 min Scan# 2830
Delta R.T. -0.13 min
Lab File: 09148F05.D
Acq: 14 Sep 98 13:24

Tgt Ion:75 Resp: 221540

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



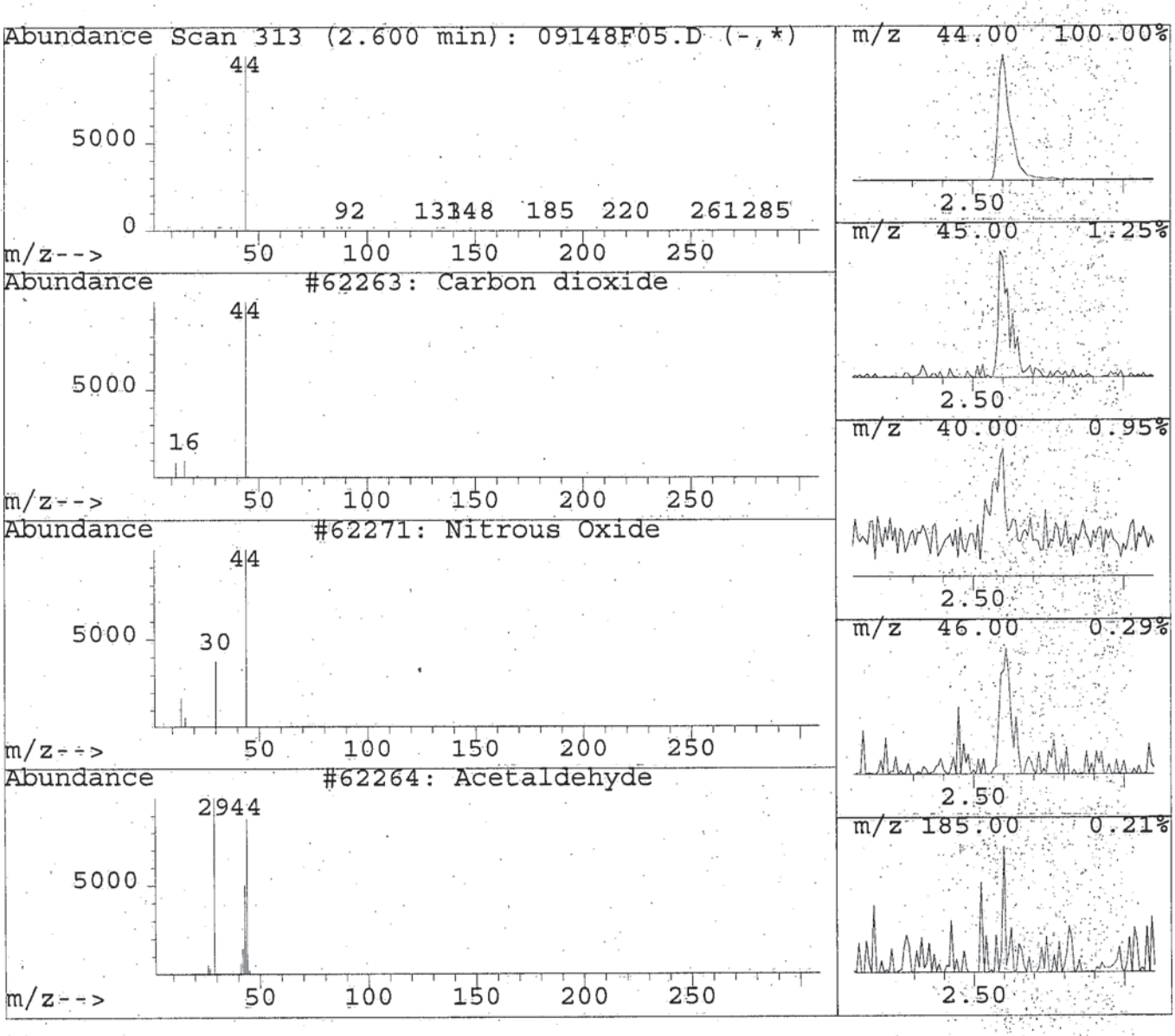
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F05.D Vial: 2
Acq On : 14 Sep 98 13:24 Operator:
Sample : METHOD BLANK 25X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.60	110.44 ug/l	5652293	Pentafluorobenzene	2558911	10.84

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Nitrous Oxide	62271	010024-97-2	3
3	Acetaldehyde	62264	000075-07-0	3
4	Ethylene oxide	62267	000075-21-8	2
5	Ethyne, fluoro-	35	002713-09-9	2



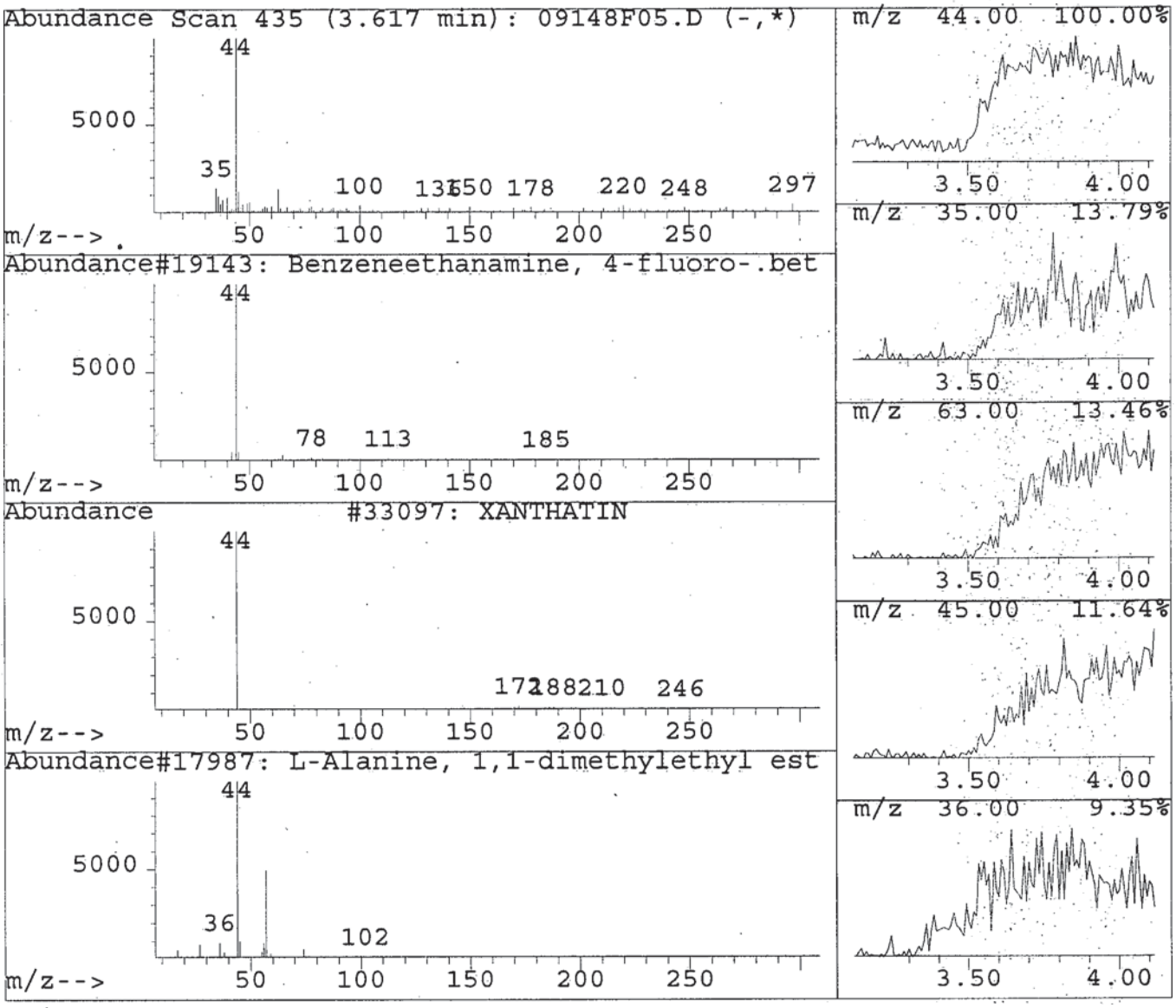
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F05.D Vial: 2
Acq On : 14 Sep 98 13:24 Operator:
Sample : METHOD BLANK 25X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.62	17.94 ug/l	918315	Pentafluorobenzene	2558911	10.84

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzeneethanamine, 4-fluoro-.beta.,	19143	000000-00-0	42
2	XANTHATIN	33097	026791-73-1	36
3	L-Alanine, 1,1-dimethylethyl ester,	17987	013404-22-3	33
4	Methanesulfinic acid, trifluoro-, t	24139	051735-75-2	9
5	2-Pentanamine	768	000625-30-9	9



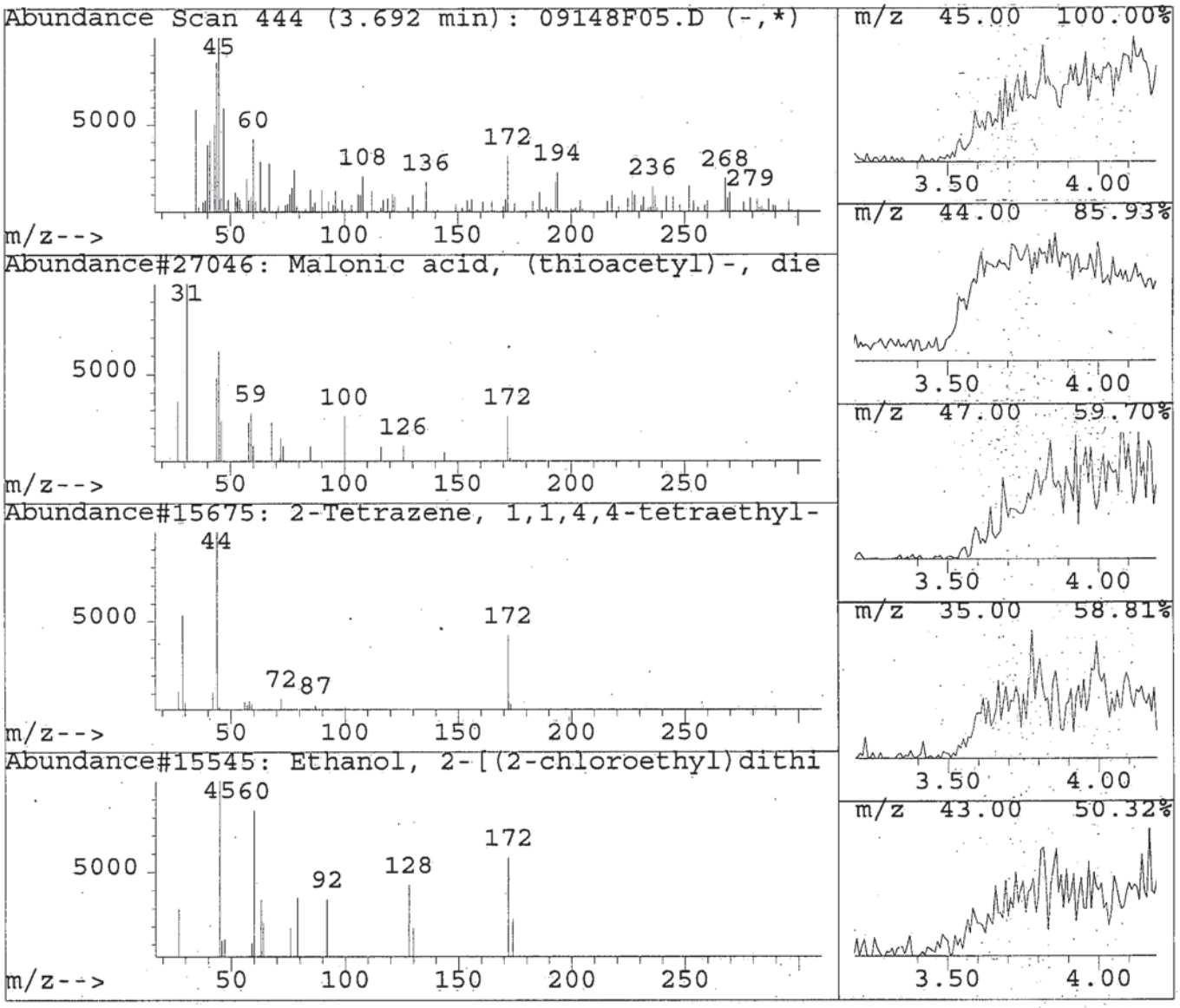
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F05.D Vial: 2
Acq On : 14 Sep 98 13:24 Operator:
Sample : METHOD BLANK 25X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.69	8.40 ug/l	430081	Pentafluorobenzene	2558911	10.84

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Malonic acid, (thioacetyl)-, diethy	27046	018457-90-4	12
2	2-Tetrazene, 1,1,4,4-tetraethyl-	15675	013304-29-5	10
3	Ethanol, 2-[(2-chloroethyl)dithio]-	15545	079503-74-5	10
4	Benzeneethanamine, 2-fluoro-.beta.,	19145	000000-00-0	9
5	Hydrazine, ethyl-	121	000624-80-6	9



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F06.D Vial: 1
Acq On : 14 Sep 98 14:41 Operator:
Sample : 07597 25X SB217A1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 14 16:48 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.84	168	850785	50.00 ug/l	0.03 100.95%
28) 1,4-Difluorobenzene	13.12	114	1865438	50.00 ug/l	0.04 124.36%
40) Chlorobenzene-D5	20.44	117	1650096	50.00 ug/l	0.05 126.12%
60) 1,4-Dichlorobenzene-D4	26.58	152	730343	50.00 ug/l	0.03 117.30%
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.24	65	433151	29.73 ug/l	118.93%
29) Toluene-D8	16.68	98	962707	22.97 ug/l	91.87%
41) 1,4-Bromofluorobenzene	23.57	95	448085	24.06 ug/l	96.25%
Target Compounds					Qvalue
21) 2-Butanone (MEK)	9.99	43	26688	4.08 ug/l #	61
24) Chloroform	10.66	83	11670	0.59 ug/l #	42
63) 1,2,3-Trichloropropane	23.58	75	216821	17.74 ug/l #	1

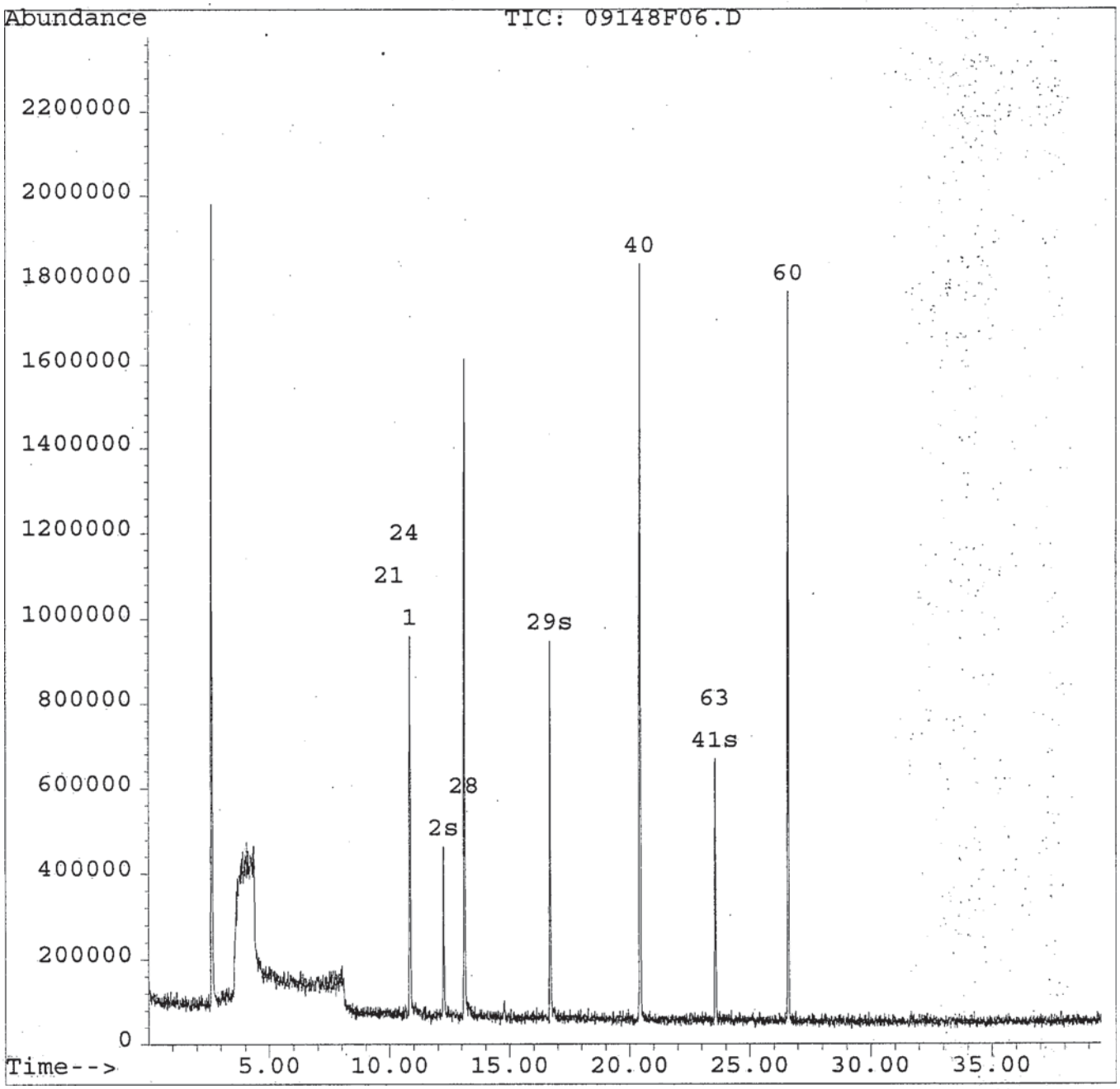
(#) = qualifier out of range (m) = manual integration

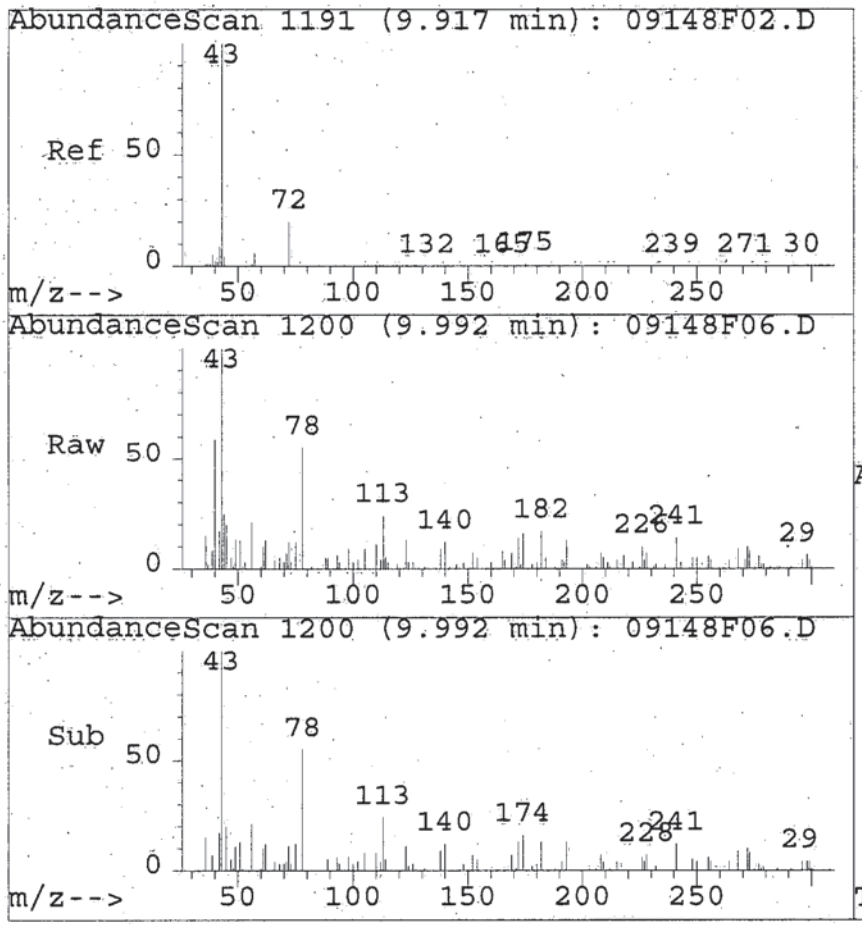
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F06.D
Acq On : 14 Sep 98 14:41
Sample : 07597 25X SB217A1
Misc : NWIRP
Quant Time: Sep 14 16:48 1998

Vial: 1
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

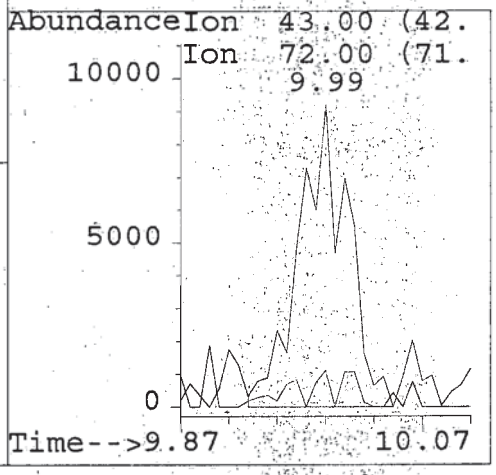


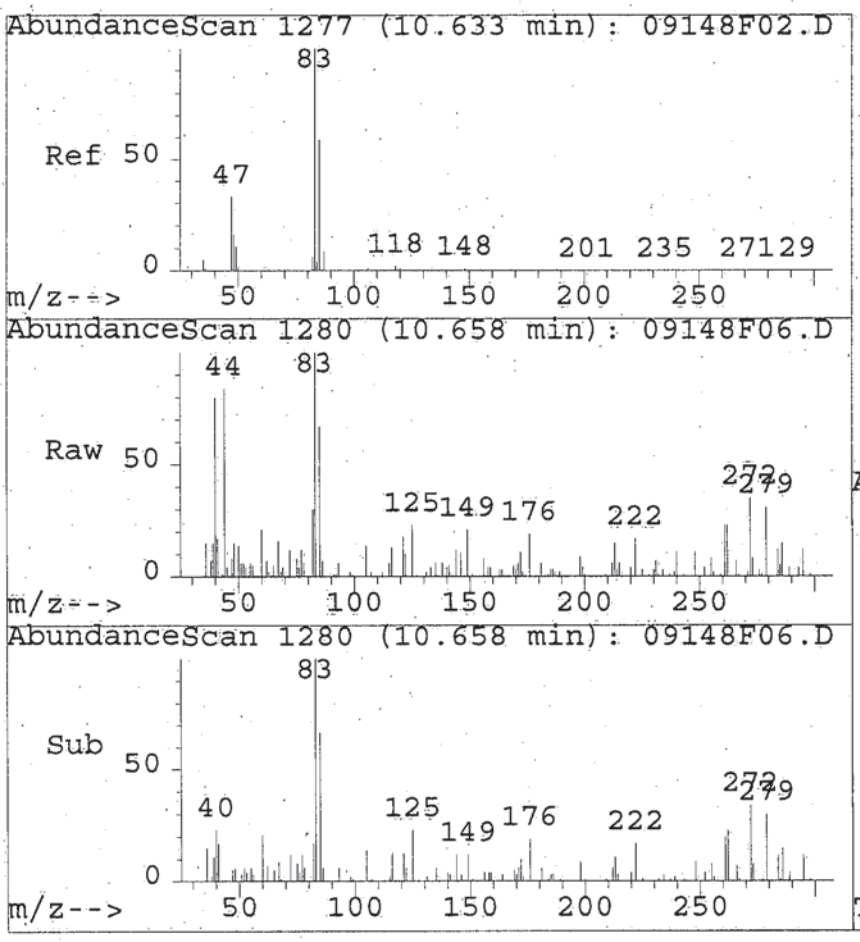


#21
2-Butanone (MEK)
Concen: 4.08 ug/l
RT: 9.99 min Scan# 1200
Delta R.T. 0.10 min
Lab File: 09148F06.D
Acq: 14 Sep 98 14:41

Tgt Ion:43 Resp: 26688

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	19.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

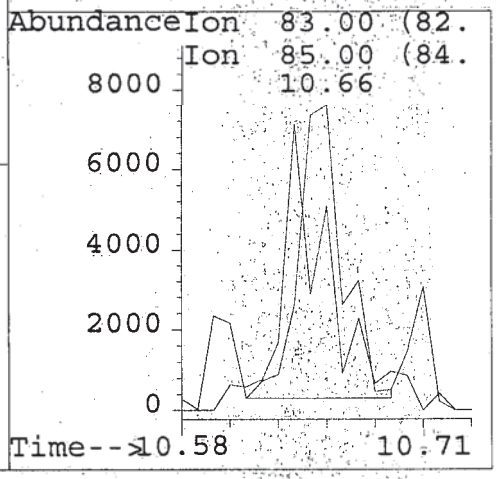


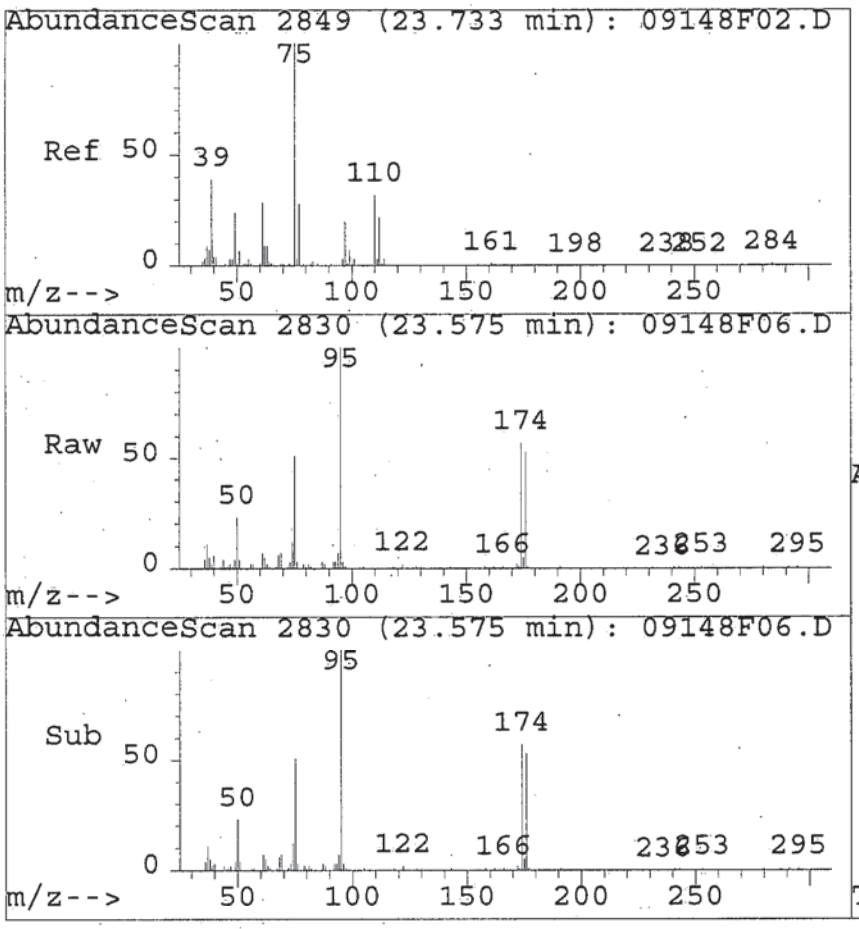


#24
Chloroform
Concen: 0.59 ug/l
RT: 10.66 min Scan# 1280
Delta R.T. 0.06 min
Lab File: 09148F06.D
Acq: 14 Sep 98 14:41

Tgt Ion:83 Resp: 11670

Ion	Ratio	Lower	Upper
83	100		
85	106.9	49.8	74.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

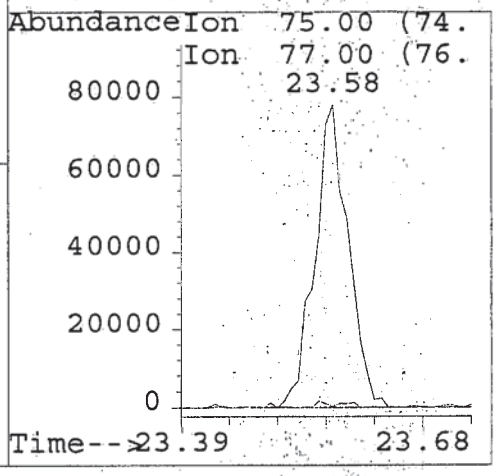




#63
1,2,3-Trichloropropane
Concen: 17.74 ug/l
RT: 23.58 min Scan# 2830
Delta R.T. -0.13 min
Lab File: 09148F06.D
Acq: 14 Sep 98 14:41

Tgt Ion:75 Resp: 216821

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



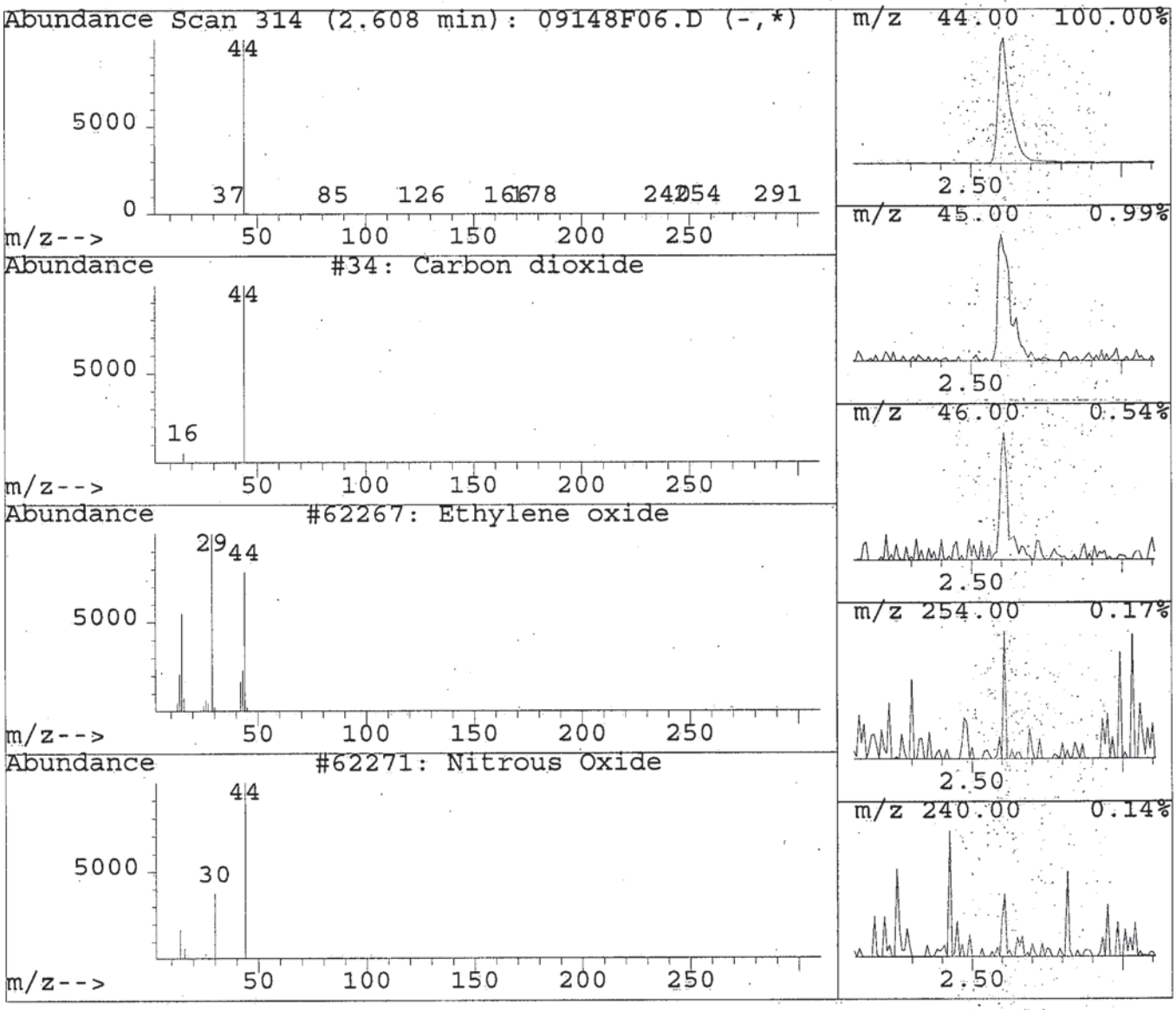
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F06.D Vial: 1
Acq On : 14 Sep 98 14:41 Operator:
Sample : 07597 25X SB217A1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.61	103.04 ug/l	5571559	Pentafluorobenzene	2703574	10.84

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	34	000124-38-9	4
2	Ethylene oxide	62267	000075-21-8	3
3	Nitrous Oxide	62271	010024-97-2	3
4	Acetaldehyde	62265	000075-07-0	2
5	Ethyne, fluoro-	35	002713-09-9	2



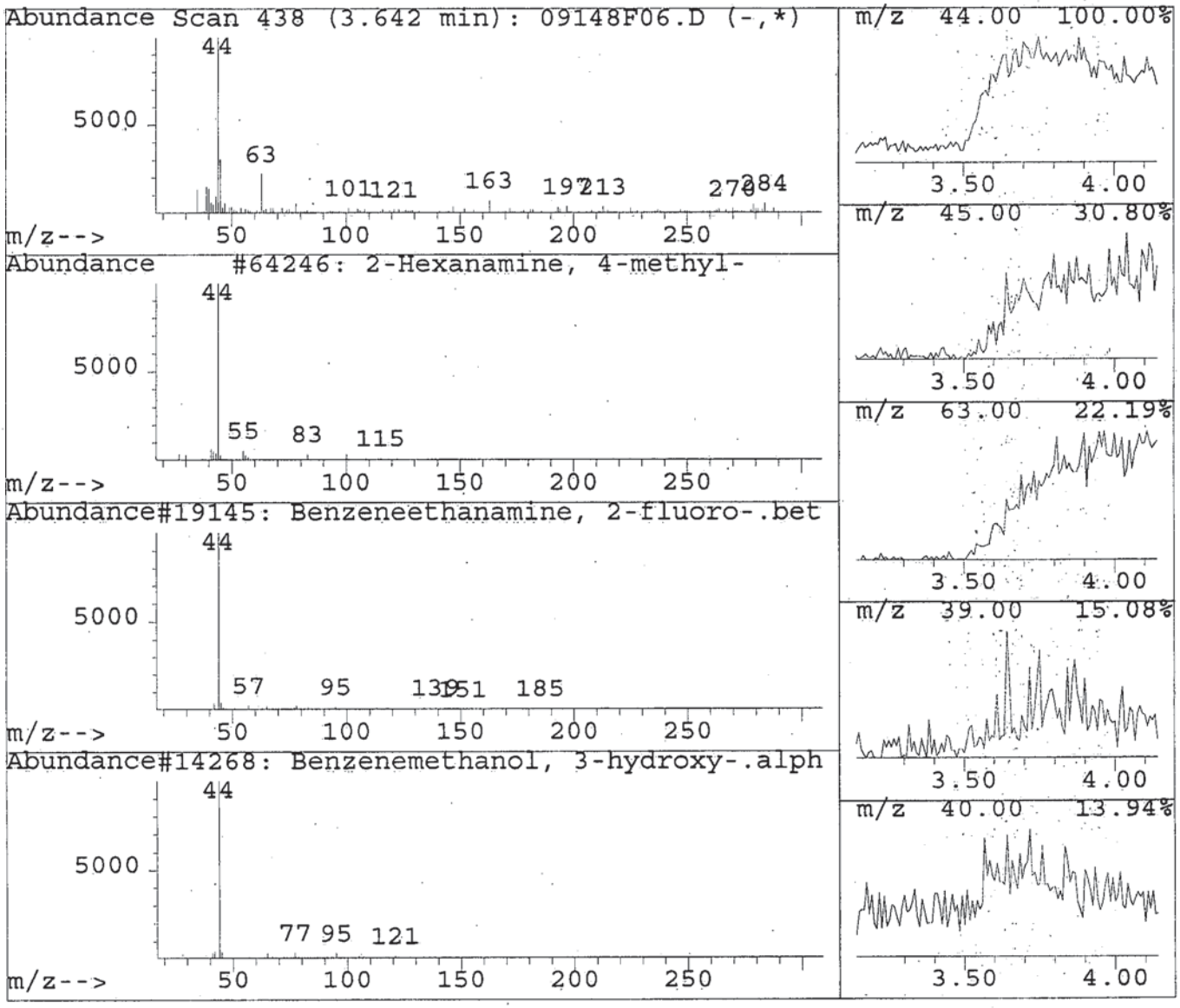
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F06.D Vial: 1
Acq On : 14 Sep 98 14:41 Operator:
Sample : 07597 25X SB217A1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.64	22.14 ug/l	1197379	Pentafluorobenzene	2703574	10.84

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Hexanamine, 4-methyl-	64246	000105-41-9	37
2	Benzeneethanamine, 2-fluoro-.beta.,	19145	000000-00-0	28
3	Benzenemethanol, 3-hydroxy-.alpha.-	14268	000059-42-7	28
4	1-Methyl-2-phenoxyethylamine	10031	035205-54-0	25
5	2-Propanamine, 1-methoxy-	883	037143-54-7	25



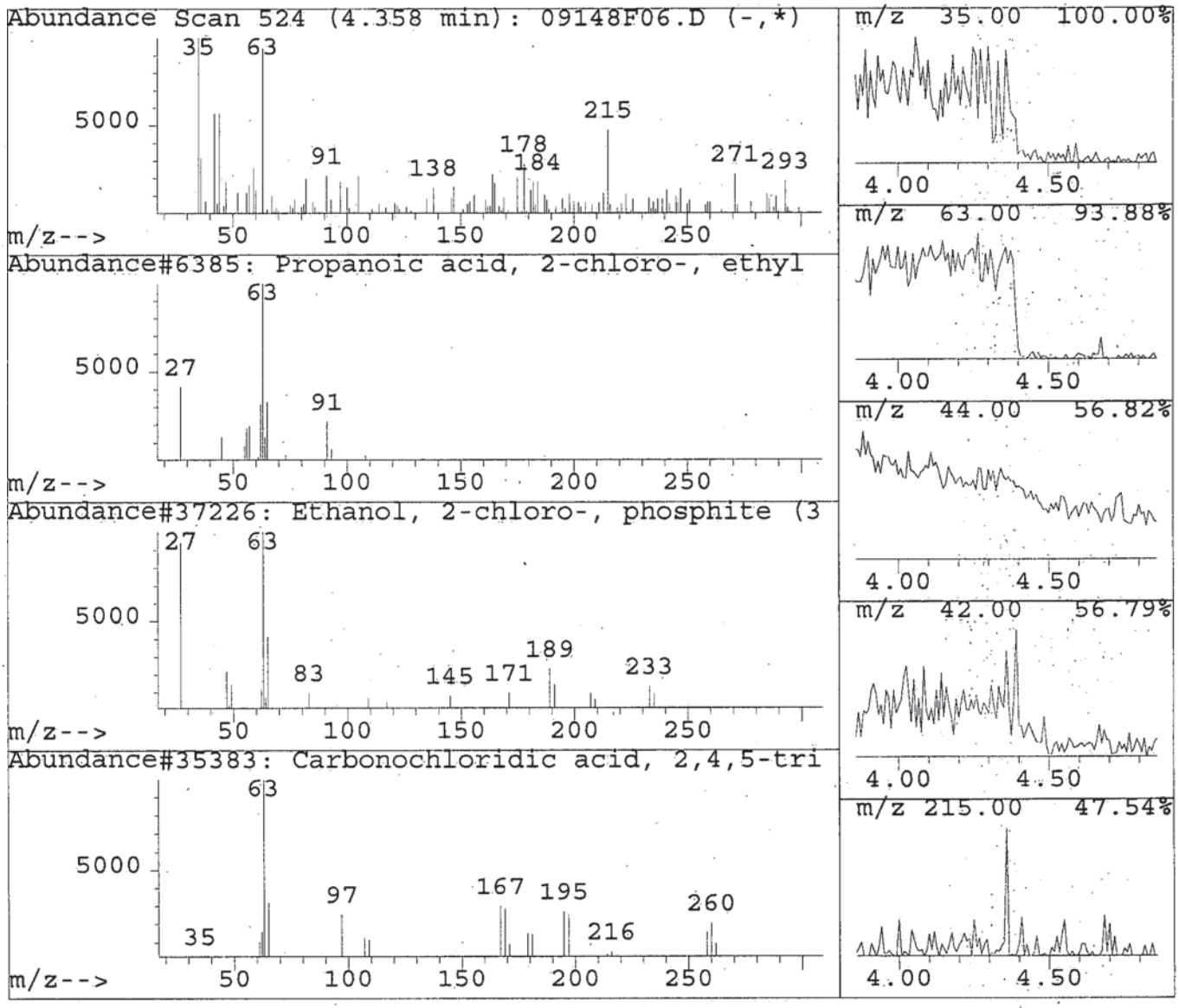
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F06.D Vial: 1
Acq On : 14 Sep 98 14:41 Operator:
Sample : 07597 25X SB217A1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
4.36	18.31 ug/l	989973	Pentafluorobenzene	2703574	10.84

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-chloro-, ethyl es	6385	000535-13-7	12
2	Ethanol, 2-chloro-, phosphite (3:1)	37226	000140-08-9	12
3	Carbonochloridic acid, 2,4,5-trichl	35383	016947-69-6	10
4	3,3,5-Trichloro-2,4-dithiahexane 2,	40732	068483-82-9	9
5	Tetraethoxymethane	20629	000078-09-1	9



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F08.D Vial: 3
Acq On : 14 Sep 98 16:28 Operator:
Sample : 07599 25X SB2117B1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 17 7:59 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.85	168	795131	50.00 ug/l	0.04 94.35%
28) 1,4-Difluorobenzene	13.13	114	1767555	50.00 ug/l	0.05 117.84%
40) Chlorobenzene-D5	20.43	117	1671600	50.00 ug/l	0.04 127.76%
60) 1,4-Dichlorobenzene-D4	26.59	152	735608	50.00 ug/l	0.04 118.15%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.25	65	371201	27.26 ug/l	109.06%
29) Toluene-D8	16.69	98	937233	23.60 ug/l	94.39%
41) 1,4-Bromofluorobenzene	23.58	95	436822	23.16 ug/l	92.62%

Target Compounds						Qvalue
10) 2-Propanone (acetone)	6.26	43	27809	6.58 ug/l	#	55
21) 2-Butanone (MEK)	10.01	43	26415	4.32 ug/l	#	61
39) Chlorobenzene	20.43	77	12852	0.63 ug/l	#	1
63) 1,2,3-Trichloropropane	23.58	75	212485	17.26 ug/l	#	1

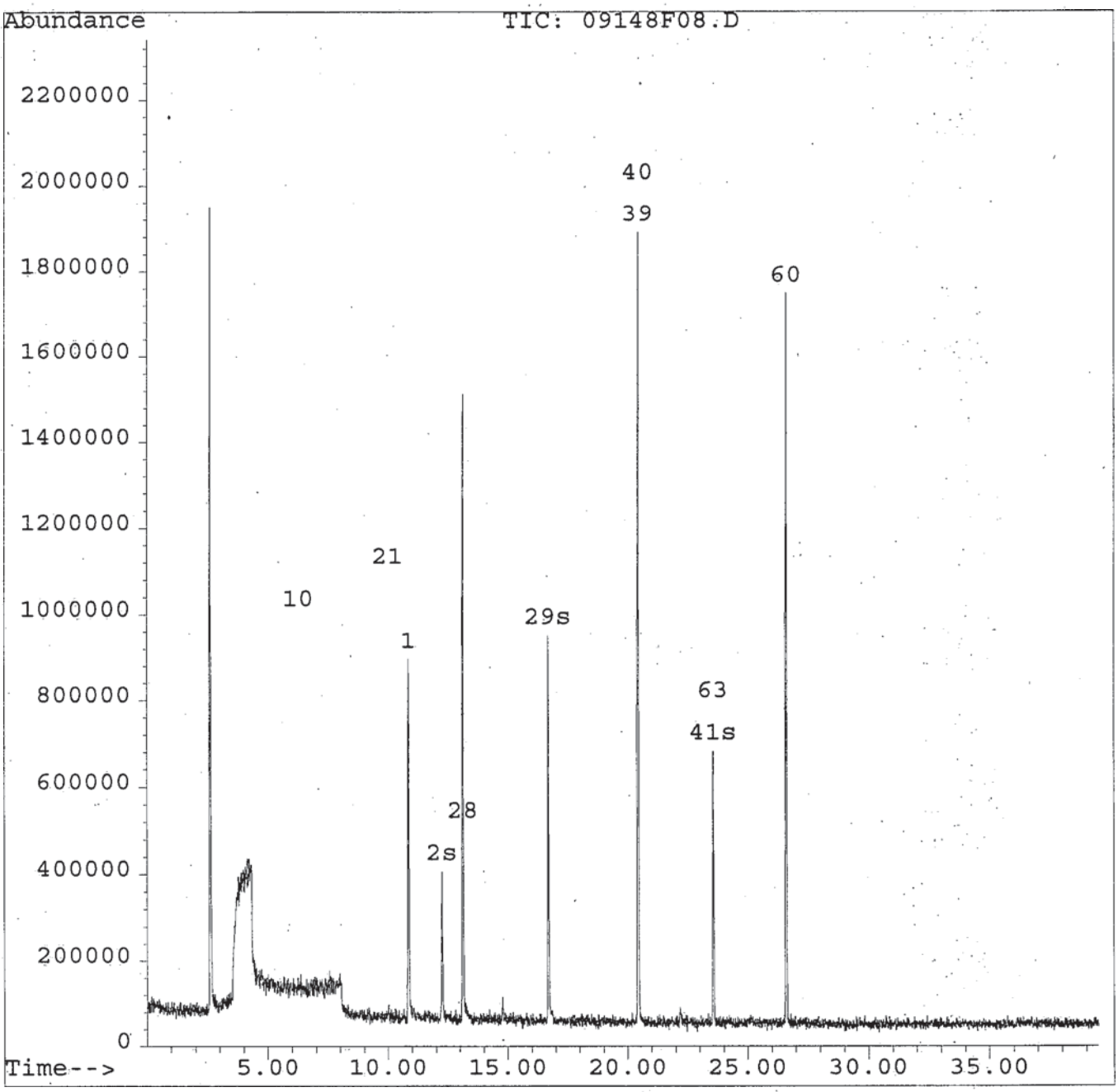
(#) = qualifier out of range (m) = manual integration

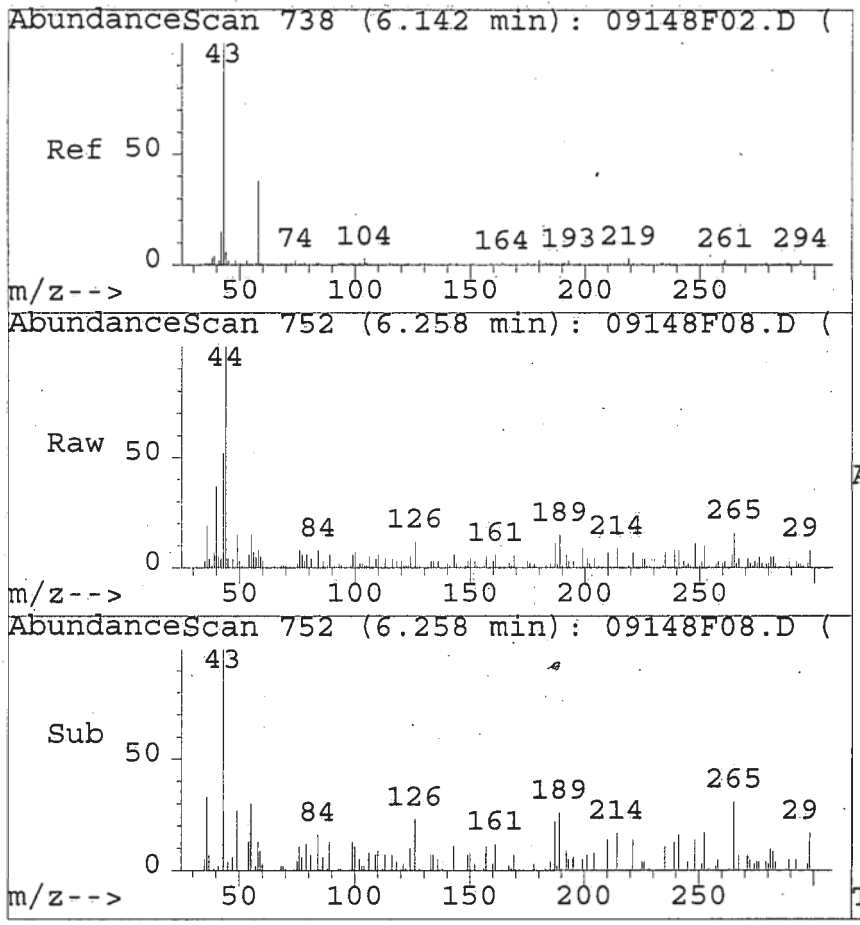
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F08.D
Acq On : 14 Sep 98 16:28
Sample : 07599 25X SB2117B1
Misc : NWIRP
Quant Time: Sep 17 7:59 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

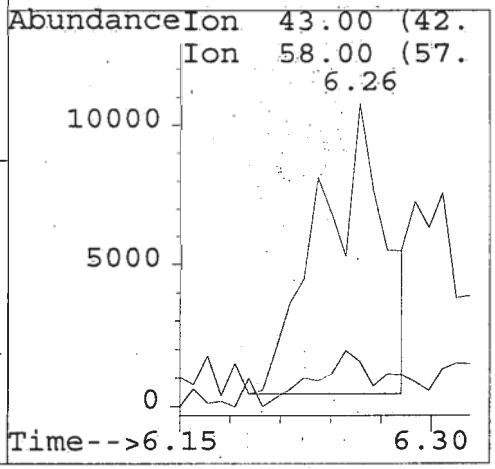


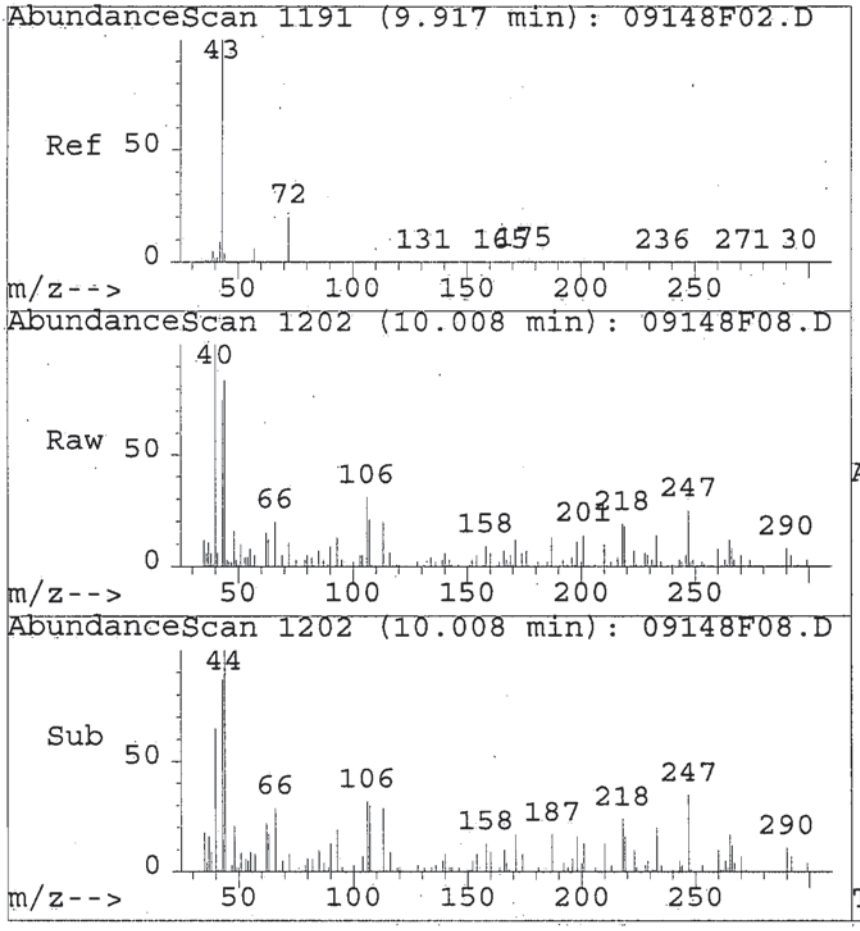


#10
2-Propanone (acetone)
Concen: 6.58 ug/l
RT: 6.26 min Scan# 752
Delta R.T. 0.15 min
Lab File: 09148F08.D
Acq: 14 Sep 98 16:28

Tgt Ion:43 Resp: 27809

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	25.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

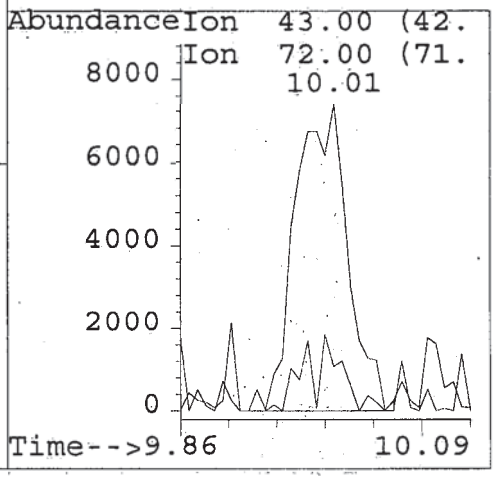


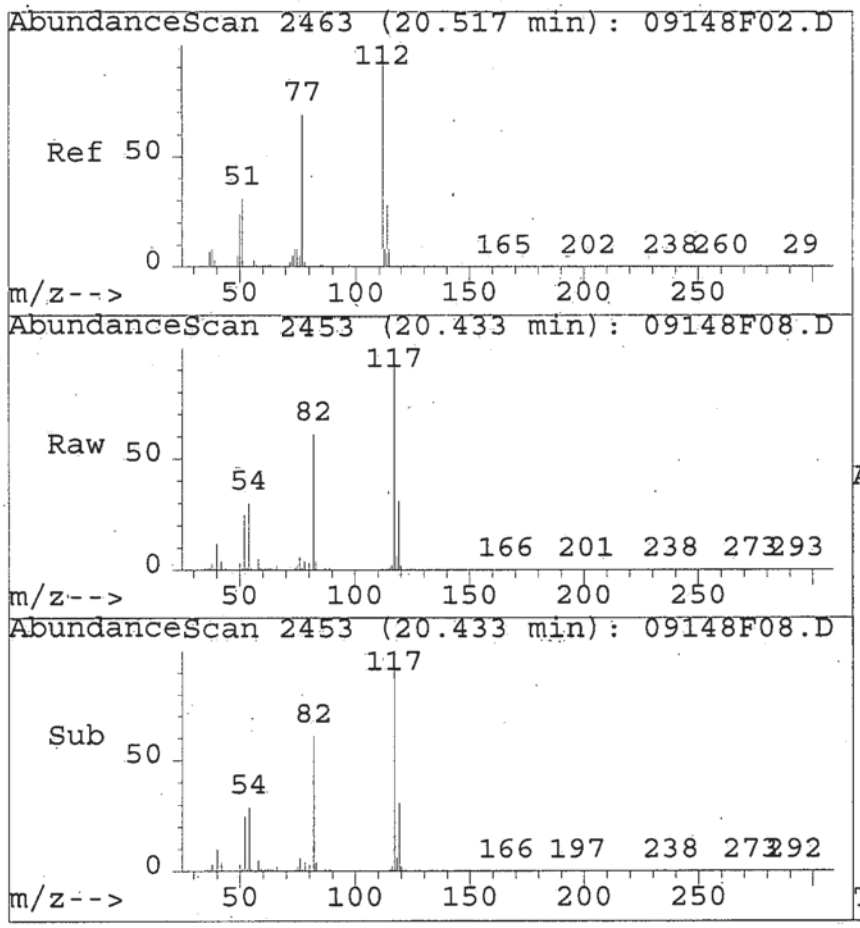


#21
2-Butanone (MEK)
Concen: 4.32 ug/l
RT: 10.01 min Scan# 1202
Delta R.T. 0.12 min
Lab File: 09148F08.D
Acq: 14 Sep 98 16:28

Tgt Ion:43 Resp: 26415

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	19.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

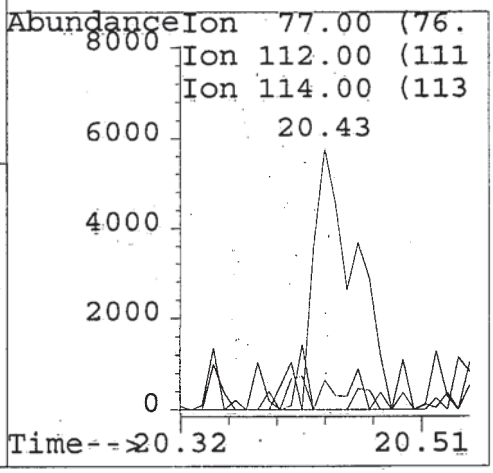


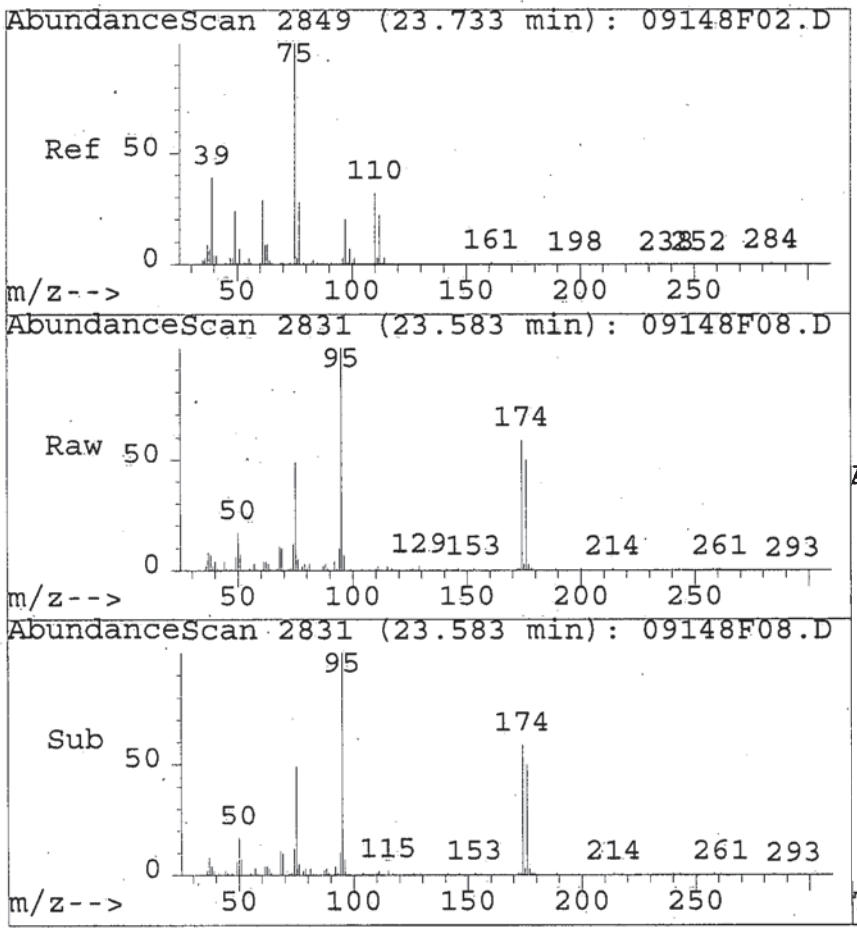


#39
Chlorobenzene
Concen: 0.63 ug/l
RT: 20.43 min Scan# 2453
Delta R.T. -0.06 min
Lab File: 09148F08.D
Acq: 14 Sep 98 16:28

Tgt Ion:77 Resp: 12852

Ion	Ratio	Lower	Upper
77	100		
112	0.0	101.0	151.6#
114	0.0	33.6	50.4#
0	0.0	0.0	0.0

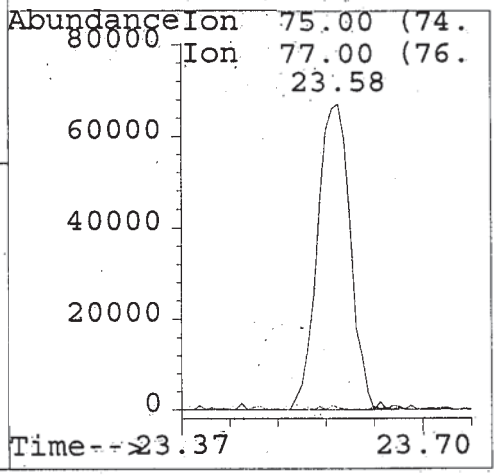




#63
1,2,3-Trichloropropane
Concen: 17.26 ug/l
RT: 23.58 min Scan# 2831
Delta R.T. -0.13 min
Lab File: 09148F08.D
Acq: 14 Sep 98 16:28

Tgt Ion:75 Resp: 212485

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



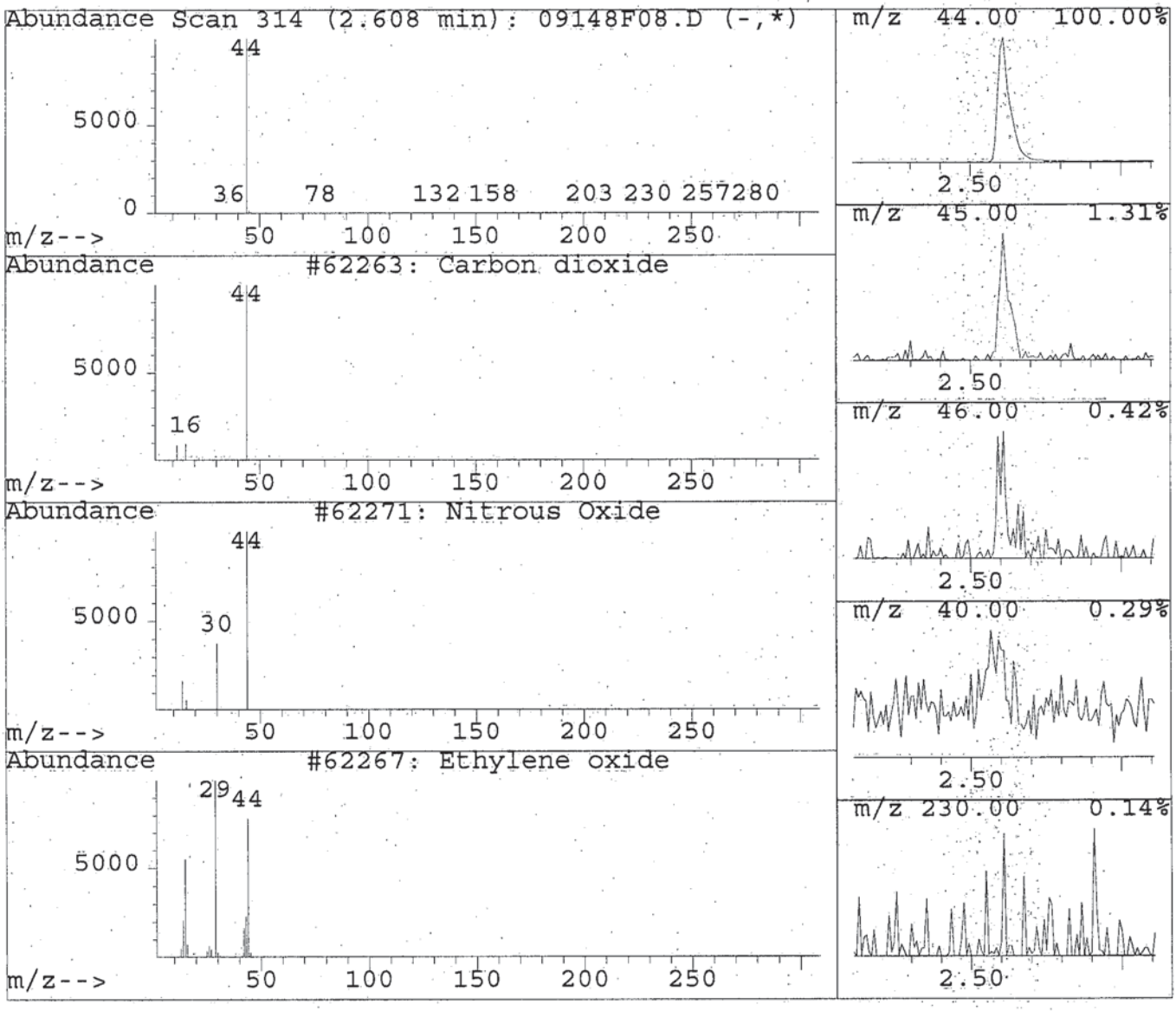
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F08.D Vial: 3
Acq On : 14 Sep 98 16:28 Operator:
Sample : 07599 25X SB2117B1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.61	93.29 ug/l	5133300	Pentafluorobenzene	2751138	10.85

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Nitrous Oxide	62271	010024-97-2	3
3	Ethylene oxide	62267	000075-21-8	2
4	Acetaldehyde	62265	000075-07-0	2
5	Ethyne, fluoro-	35	002713-09-9	2



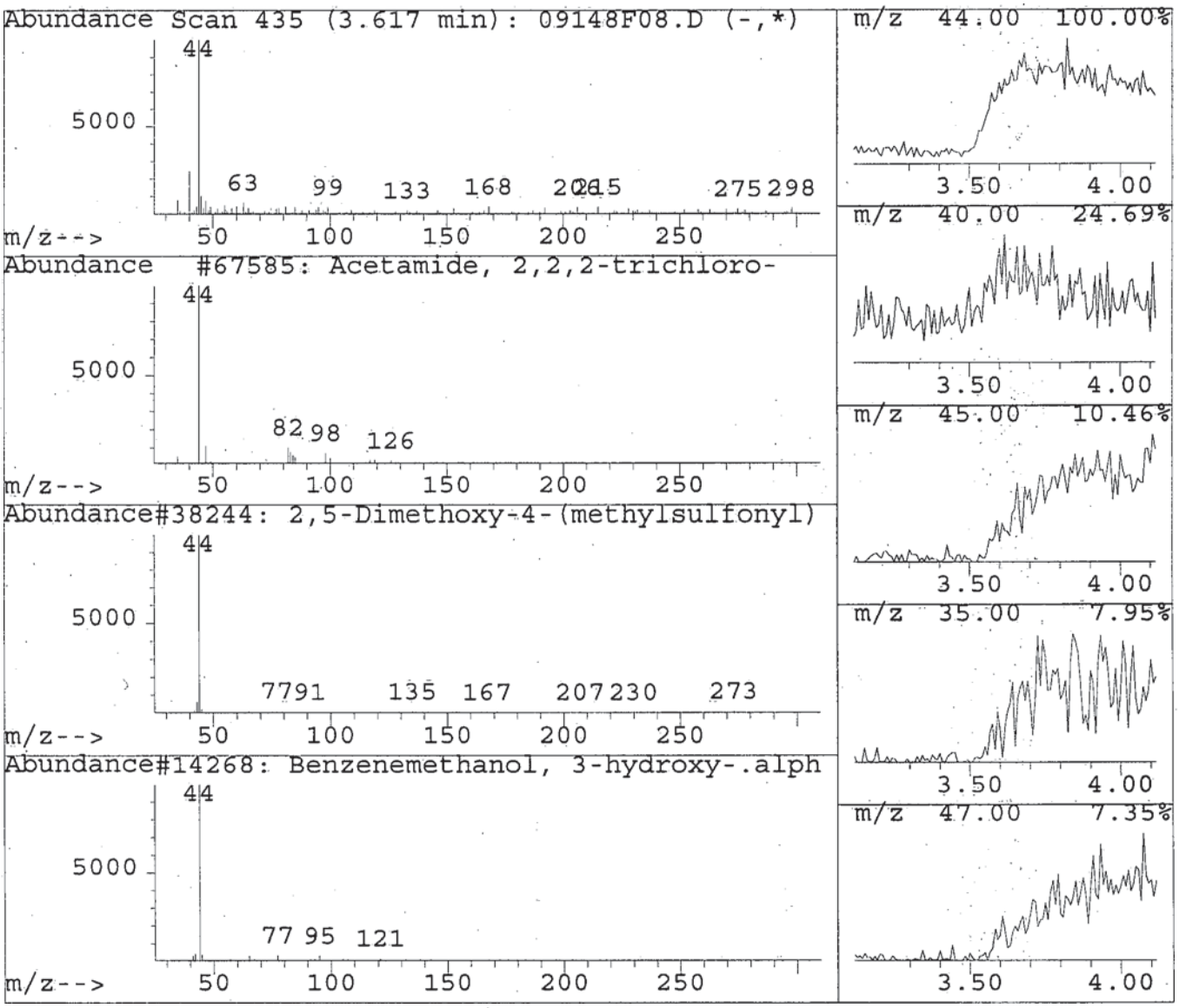
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F08.D Vial: 3
Acq On : 14 Sep 98 16:28 Operator:
Sample : 07599 25X SB2117B1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.62	15.16 ug/l	834108	Pentafluorobenzene	2751138	10.85

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetamide, 2,2,2-trichloro-	67585	000594-65-0	50
2	2,5-Dimethoxy-4-(methylsulfonyl)amp	38244	000000-00-0	42
3	Benzenemethanol, 3-hydroxy-.alpha.-	14268	000059-42-7	42
4	2-Propanamine, 1-methoxy-	883	037143-54-7	42
5	Benzenemethanol, 2-(2-aminopropoxy)	21558	053566-98-6	36



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F07.D Vial: 2
Acq On : 14 Sep 98 15:35 Operator:
Sample : 07600 25X SB217B1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 14 16:49 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.85	168	836601	50.00 ug/l	0.04 99.27%
28) 1,4-Difluorobenzene	13.12	114	1697931	50.00 ug/l	0.04 113.20%
40) Chlorobenzene-D5	20.43	117	1609999	50.00 ug/l	0.04 123.05%
60) 1,4-Dichlorobenzene-D4	26.59	152	710827	50.00 ug/l	0.04 114.17%
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.25	65	377362	26.34 ug/l	105.37%
29) Toluene-D8	16.69	98	988423	25.91 ug/l	103.63%
41) 1,4-Bromofluorobenzene	23.58	95	453037	24.93 ug/l	99.74%
Target Compounds					Qvalue
10) 2-Propanone (acetone)	6.28	43	25319	5.69 ug/l #	55
13) Carbon Disulfide	7.36	76	16787	0.36 ug/l	100
21) 2-Butanone (MEK)	10.00	43	18707	2.91 ug/l #	61
24) Chloroform	10.66	83	12756	0.66 ug/l #	19
35) Toluene	16.88	91	10634	0.22 ug/l #	22
39) Chlorobenzene	20.45	77	14216	0.73 ug/l #	1
63) 1,2,3-Trichloropropane	23.58	75	207963	17.48 ug/l #	1

$$\frac{(5)(25)(569)}{(3.542)(1000)} = 0.20$$

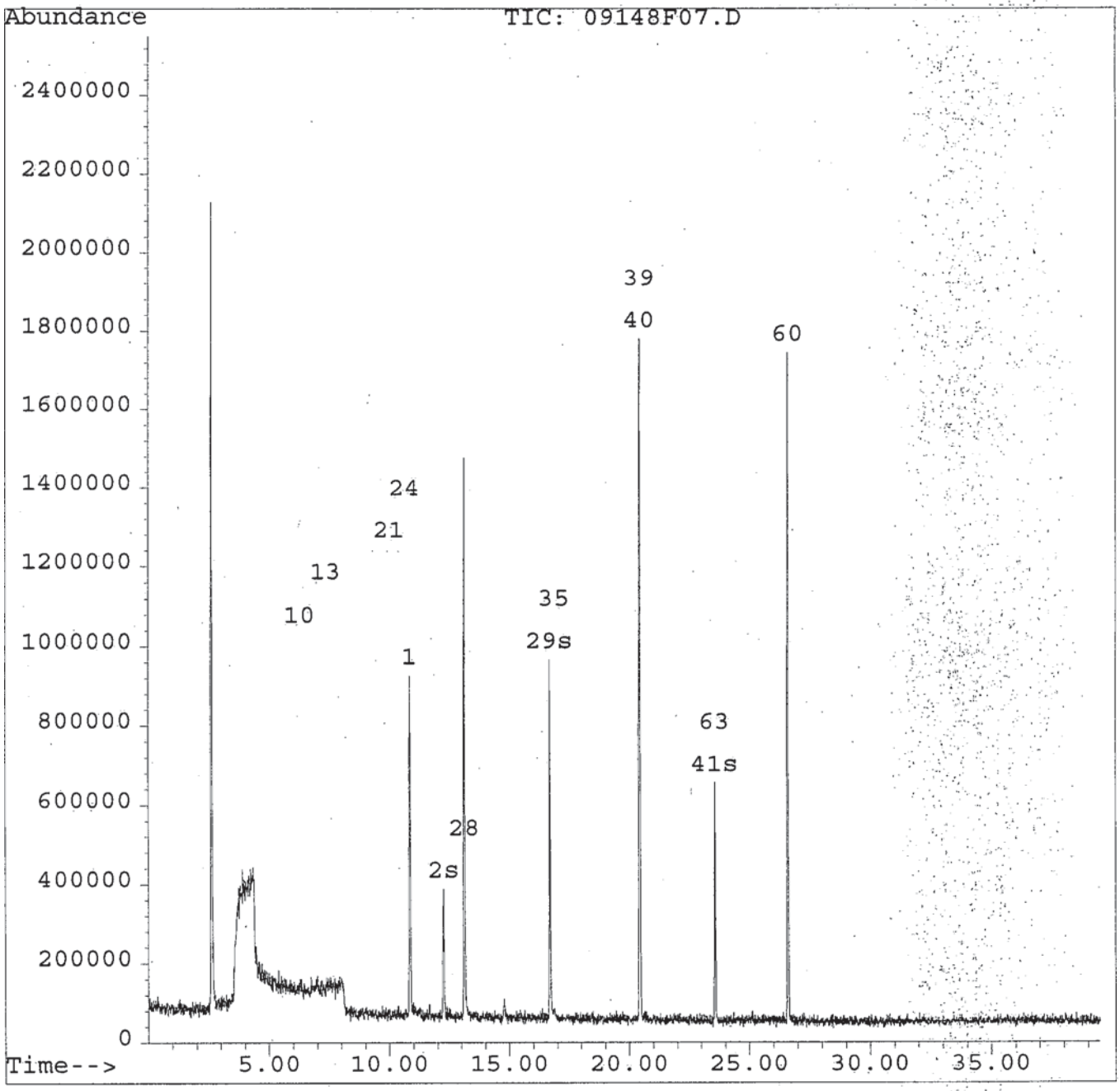
(#) = qualifier out of range (m) = manual integration

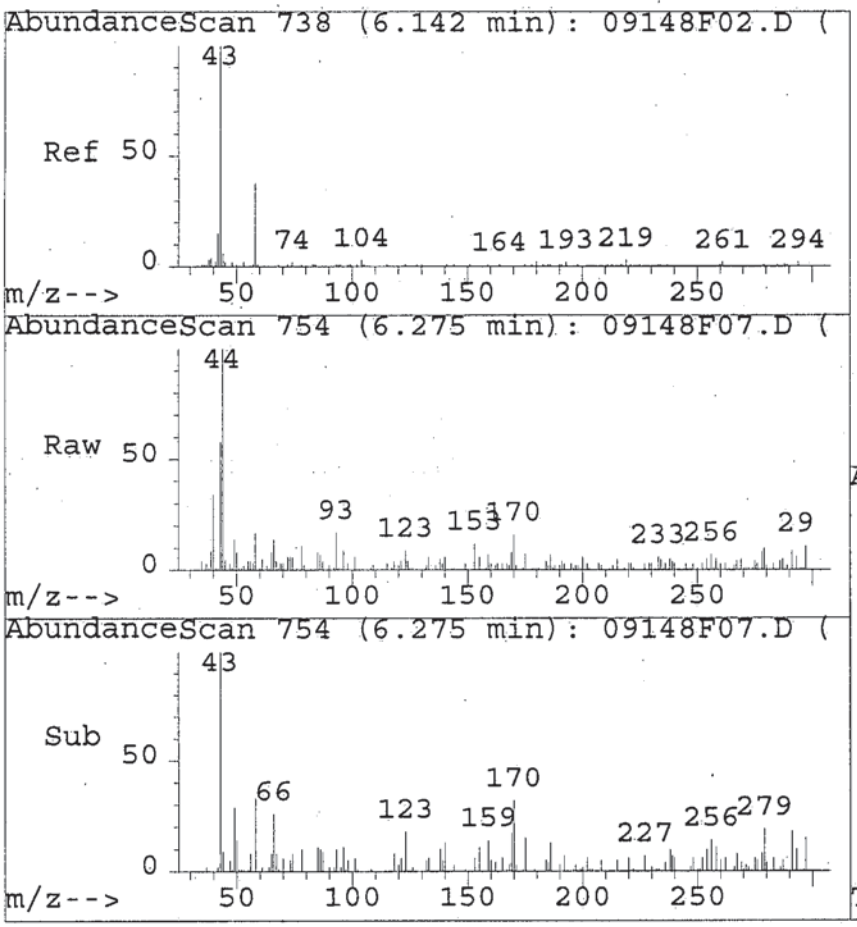
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F07.D
Acq On : 14 Sep 98 15:35
Sample : 07600 25X SB217B1
Misc : NWIRP
Quant Time: Sep 14 16:49 1998

Vial: 2
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

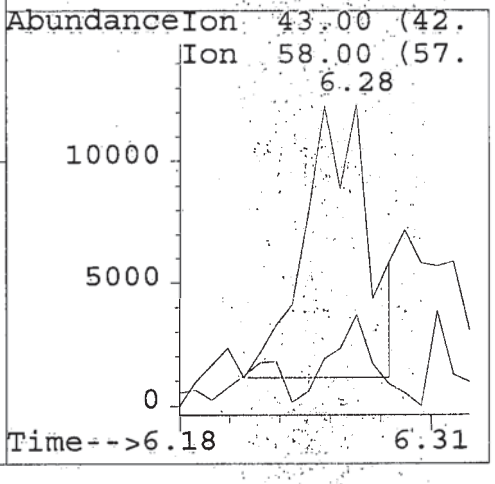


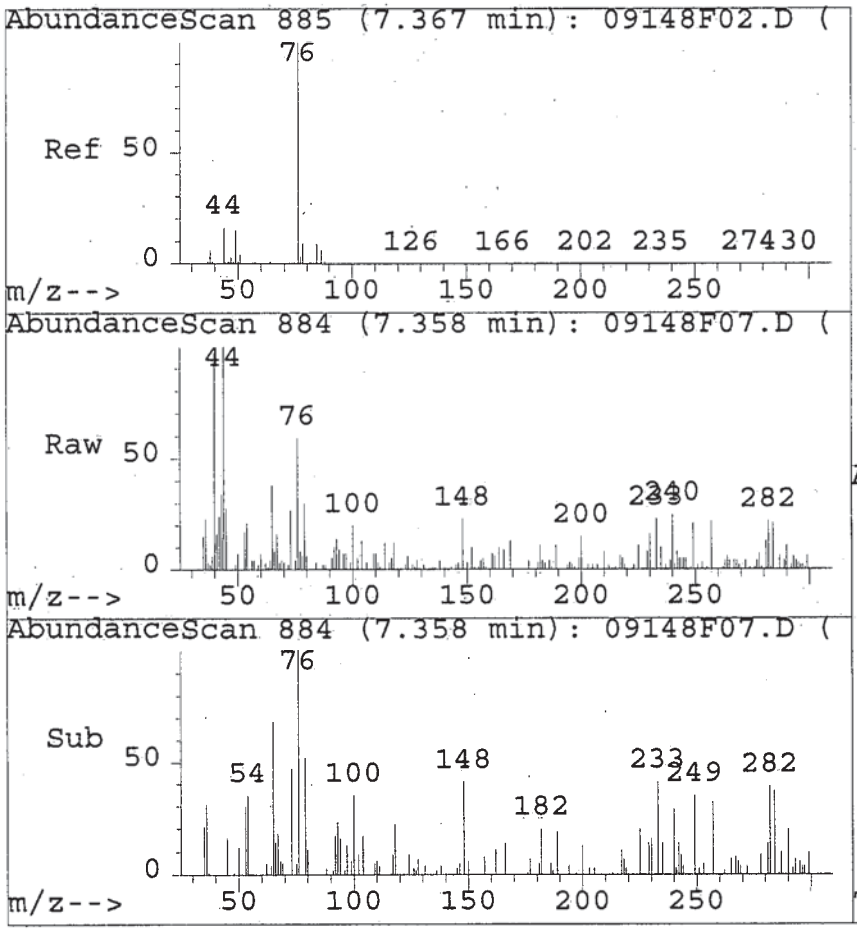


#10
2-Propanone (acetone)
Concen: 5.69 ug/l
RT: 6.28 min Scan# 754
Delta R.T. 0.17 min
Lab File: 09148F07.D
Acq: 14 Sep 98 15:35

Tgt Ion:43 Resp: 25319

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	25.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

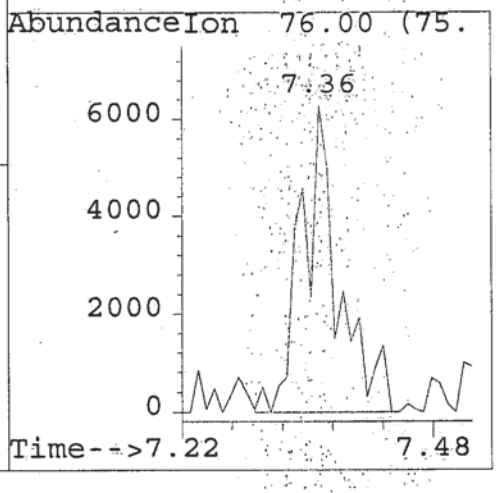


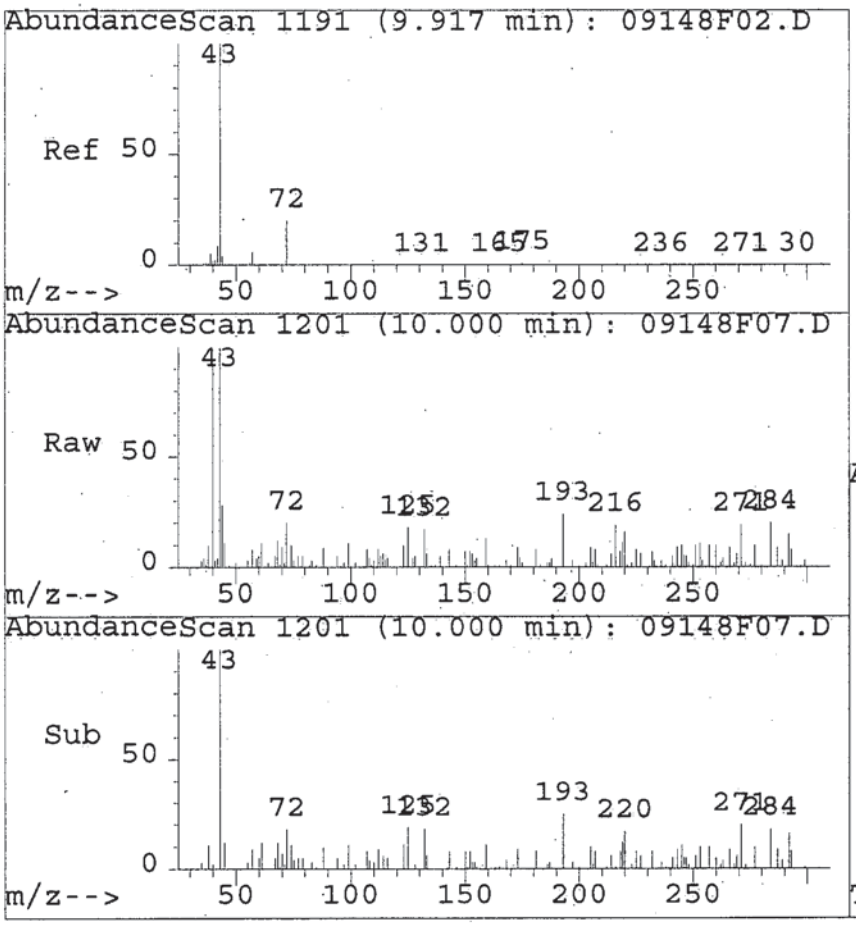


#13
Carbon Disulfide
Concen: 0.36 ug/l
RT: 7.36 min Scan# 884
Delta R.T. 0.02 min
Lab File: 09148F07.D
Acq: 14 Sep 98 15:35

Tgt Ion:76 Resp: 16787

Ion	Ratio	Lower	Upper
76	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

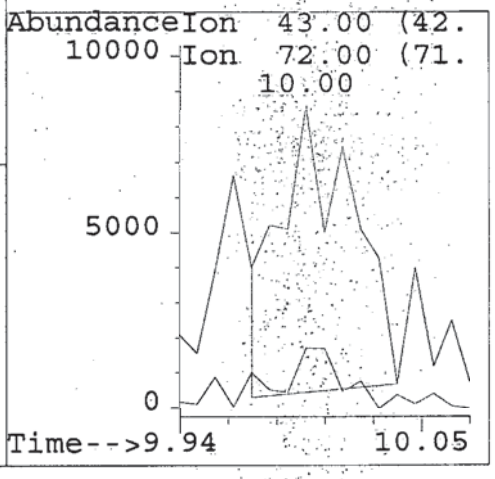


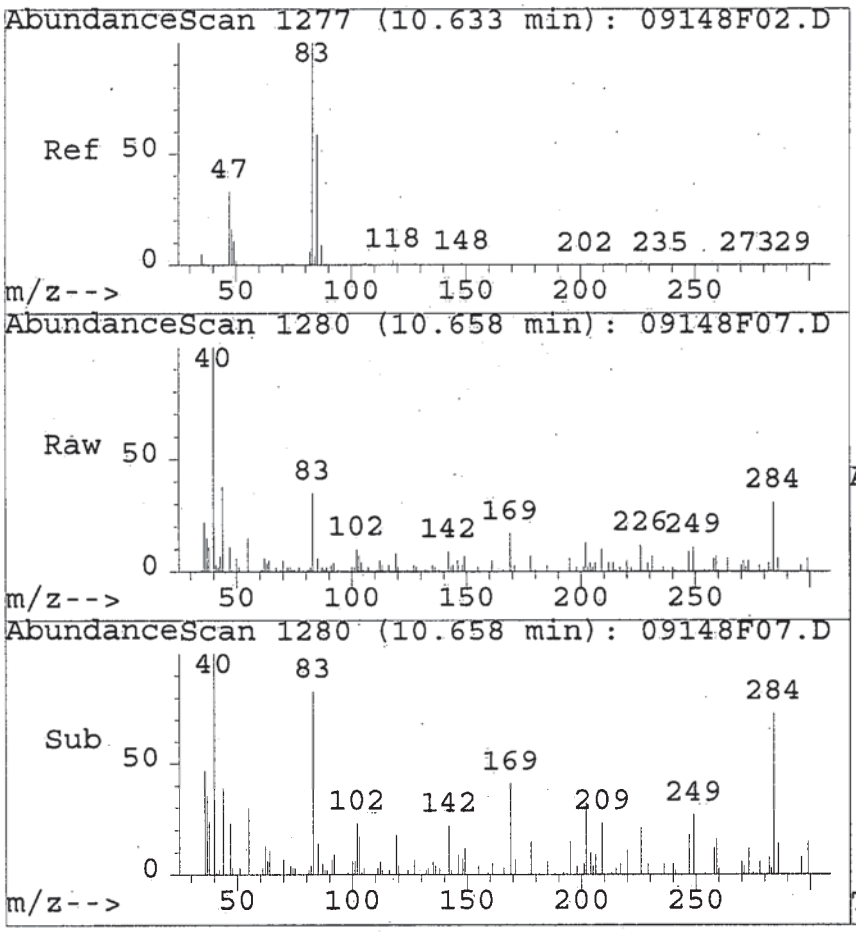


#21
2-Butanone (MEK)
Concen: 2.91 ug/l
RT: 10.00 min Scan# 1201
Delta R.T. 0.11 min
Lab File: 09148F07.D
Acq: 14 Sep 98 15:35

Tgt Ion:43 Resp: 18707

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	19.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

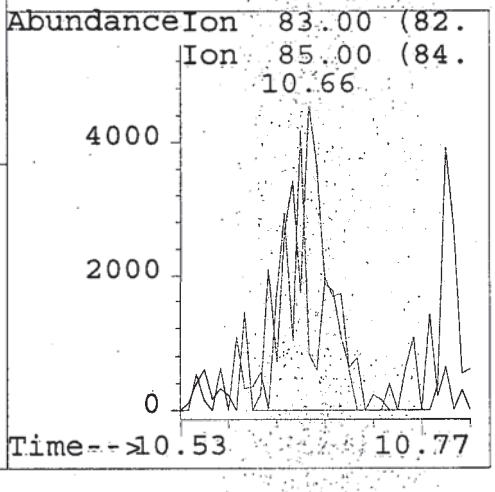


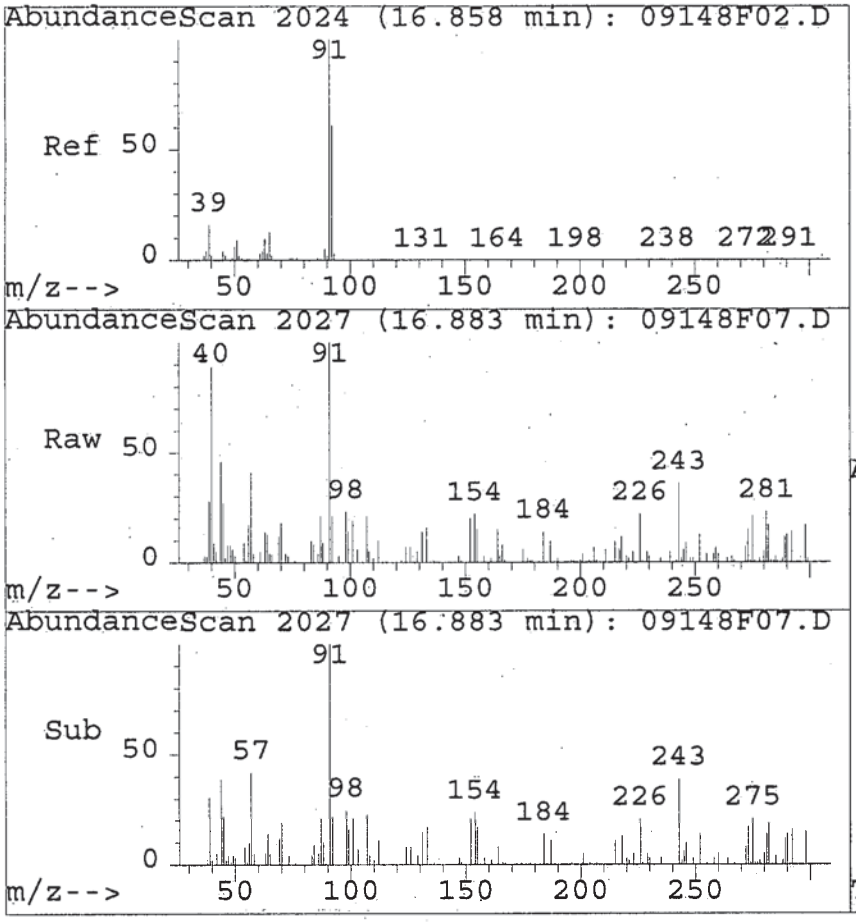


#24
Chloroform
Concen: 0.66 ug/l
RT: 10.66 min Scan# 1280
Delta R.T. 0.06 min
Lab File: 09148F07.D
Acq: 14 Sep 98 15:35

Tgt Ion:83 Resp: 12756

Ion	Ratio	Lower	Upper
83	100		
85	0.0	49.8	74.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

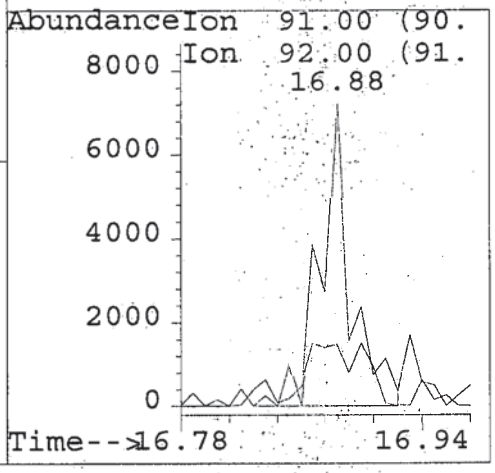


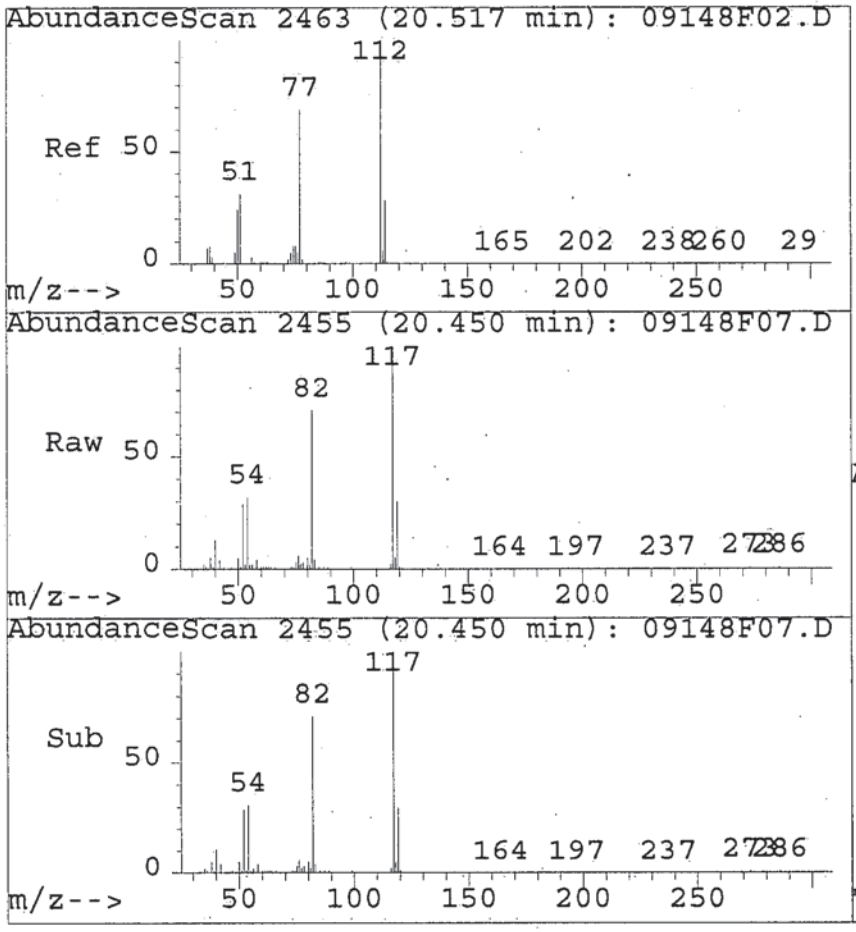


#35
Toluene
Concen: 0.22 ug/l
RT: 16.88 min Scan# 2027
Delta R.T. 0.04 min
Lab File: 09148F07.D
Acq: 14 Sep 98 15:35

Tgt Ion:91 Resp: 10634

Ion	Ratio	Lower	Upper
91	100		
92	0.0	45.8	68.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

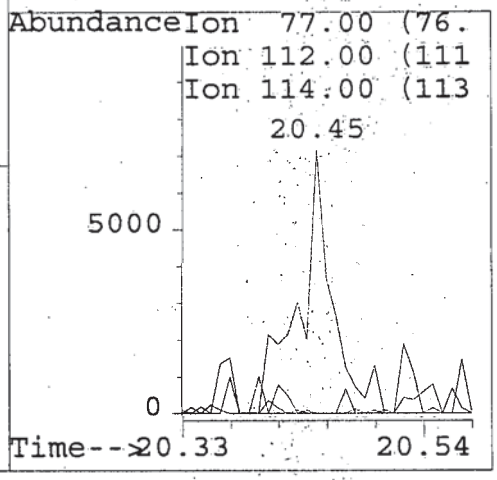


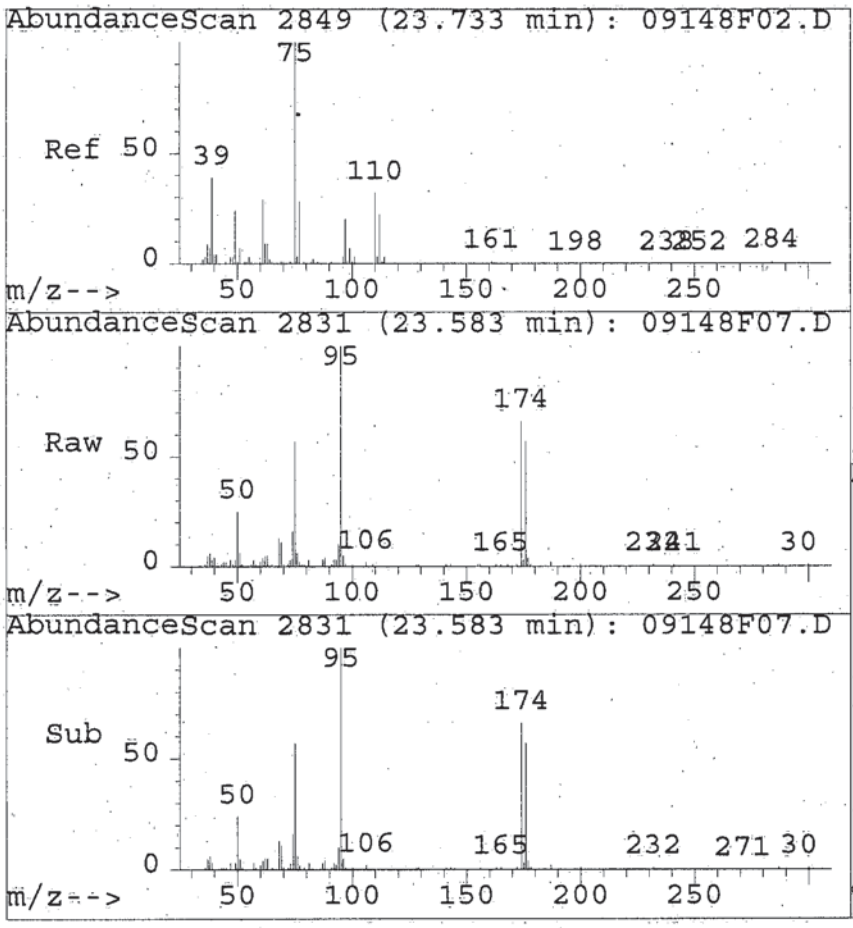


#39
Chlorobenzene
Concen: 0.73 ug/l
RT: 20.45 min Scan# 2455
Delta R.T. -0.04 min
Lab File: 09148F07.D
Acq: 14 Sep 98 15:35

Tgt Ion:77 Resp: 14216

Ion	Ratio	Lower	Upper
77	100		
112	0.0	101.0	151.6#
114	0.0	33.6	50.4#
0	0.0	0.0	0.0

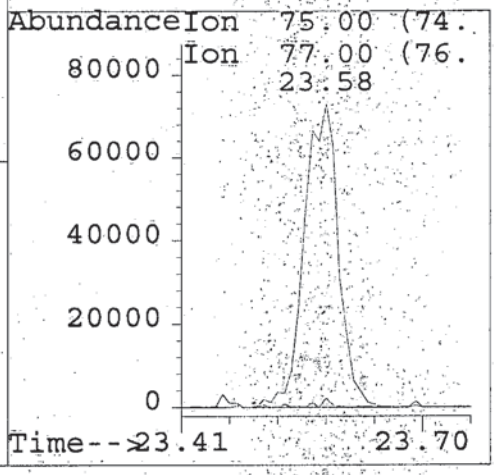




#63
1,2,3-Trichloropropane
Concen: 17.48 ug/l
RT: 23.58 min Scan# 2831
Delta R.T. -0.13 min
Lab File: 09148F07.D
Acq: 14 Sep 98 15:35

Tgt Ion:75 Resp: 207963

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



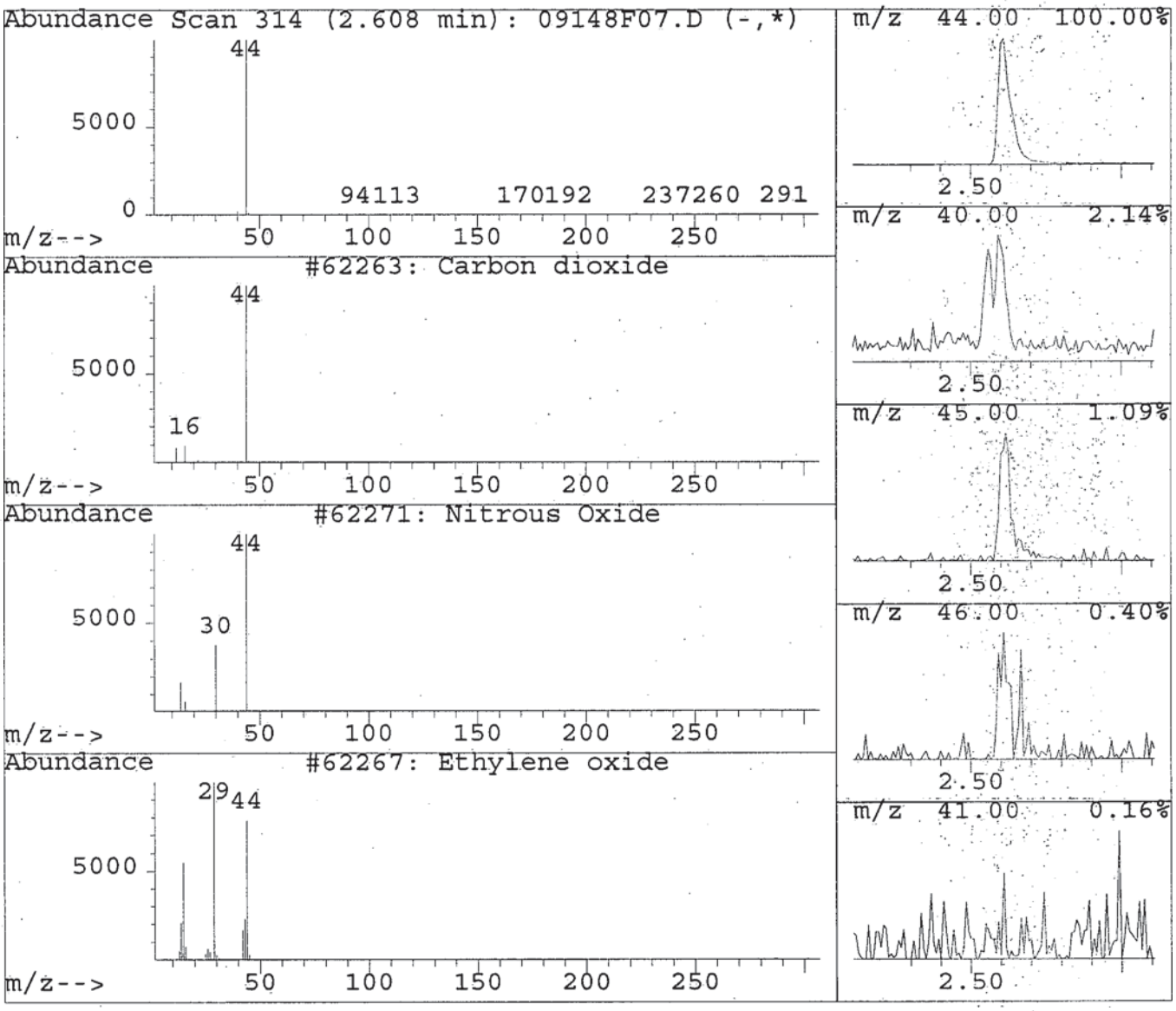
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F07.D Vial: 2
Acq On : 14 Sep 98 15:35 Operator:
Sample : 07600 25X SB217B1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.61	115.81 ug/l	6150614	Pentafluorobenzene	2655537	10.85

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Nitrous Oxide	62271	010024-97-2	3
3	Ethylene oxide	62267	000075-21-8	2
4	Acetaldehyde	62265	000075-07-0	2
5	Ethyne, fluoro-	35	002713-09-9	2



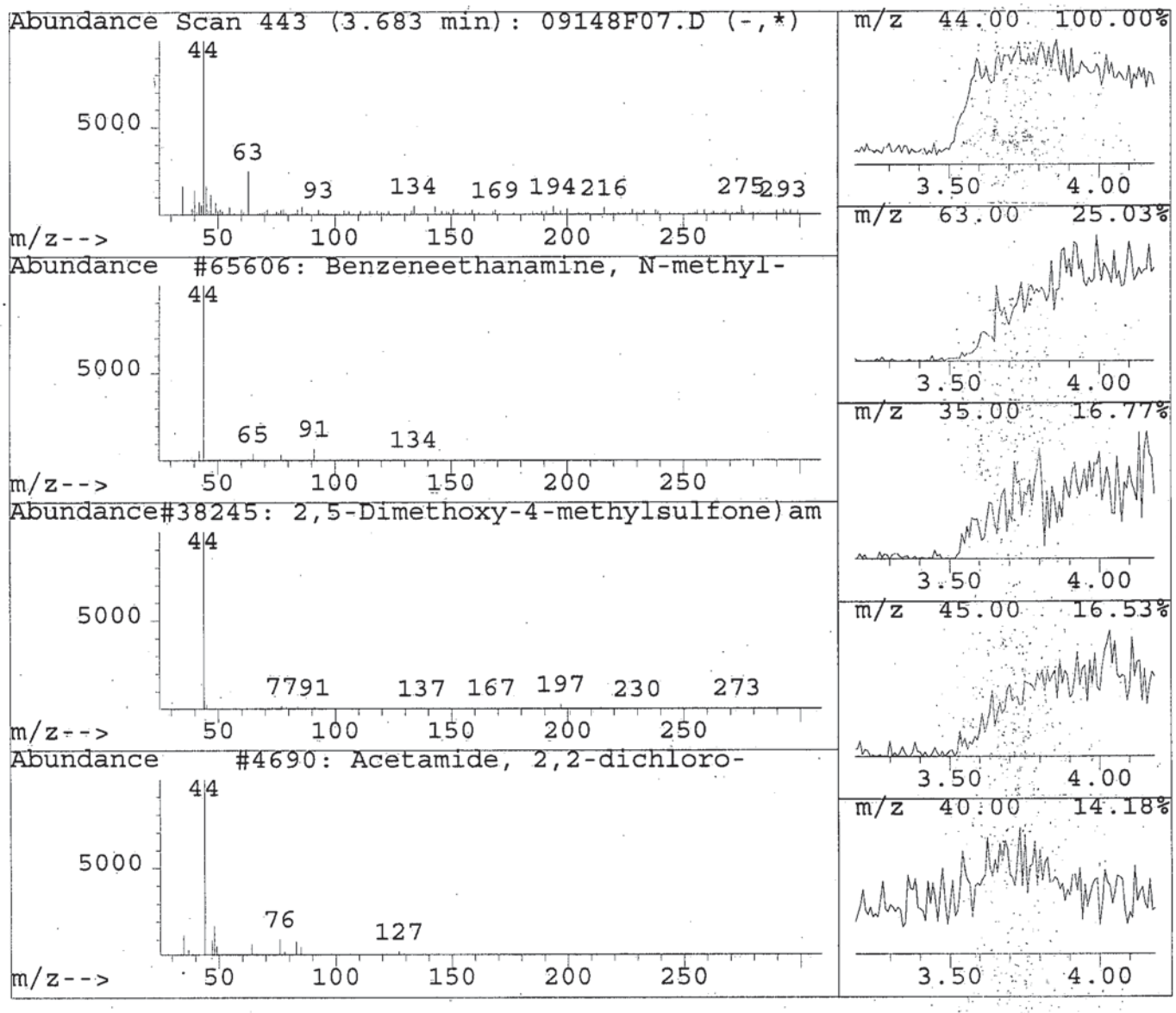
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F07.D Vial: 2
Acq On : 14 Sep 98 15:35 Operator:
Sample : 07600 25X SB217B1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.68	29.66 ug/l	1575013	Pentafluorobenzene	2655537	10.85

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzeneethanamine, N-methyl-	65606	000589-08-2	47
2	2,5-Dimethoxy-4-methylsulfone)amphe	38245	000000-00-0	47
3	Acetamide, 2,2-dichloro-	4690	000683-72-7	42
4	Dextroamphetamine	65628	000051-64-9	38
5	2-Hexanamine, 4-methyl-	64246	000105-41-9	37



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F04.D Vial: 1
Acq On : 14 Sep 98 12:30 Operator:
Sample : 07598 TRIP BLANK Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 14 13:45 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	1032328	50.00 ug/l	0.02 122.49%
28) 1,4-Difluorobenzene	13.10	114	2003725	50.00 ug/l	0.02 133.58%
40) Chlorobenzene-D5	20.43	117	1711316	50.00 ug/l	0.03 130.80%
60) 1,4-Dichlorobenzene-D4	26.58	152	770814	50.00 ug/l	0.03 123.80%
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.23	65	488968	27.66 ug/l	110.65%
29) Toluene-D8	16.68	98	1103083	24.50 ug/l	98.00%
41) 1,4-Bromofluorobenzene	23.55	95	471327	24.41 ug/l	97.62%
Target Compounds					Qvalue
10) 2-Propanone (acetone)	6.14	43	14461	2.63 ug/l #	55
24) Chloroform	10.65	83	25789	1.08 ug/l	98
39) Chlorobenzene	20.43	77	12188	0.53 ug/l #	1
63) 1,2,3-Trichloropropane	23.56	75	242783	18.82 ug/l #	1

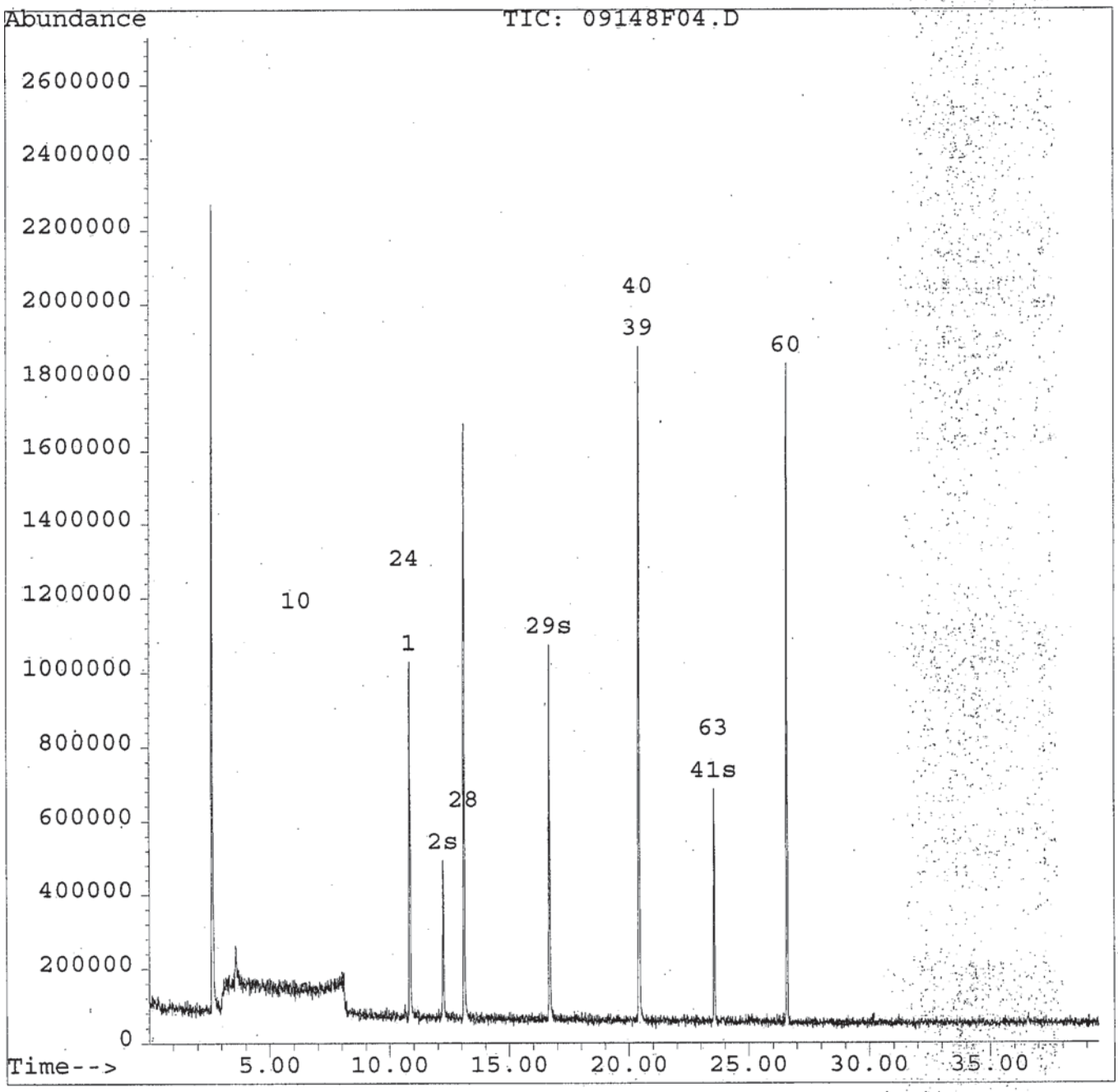
(#) = qualifier out of range (m) = manual integration

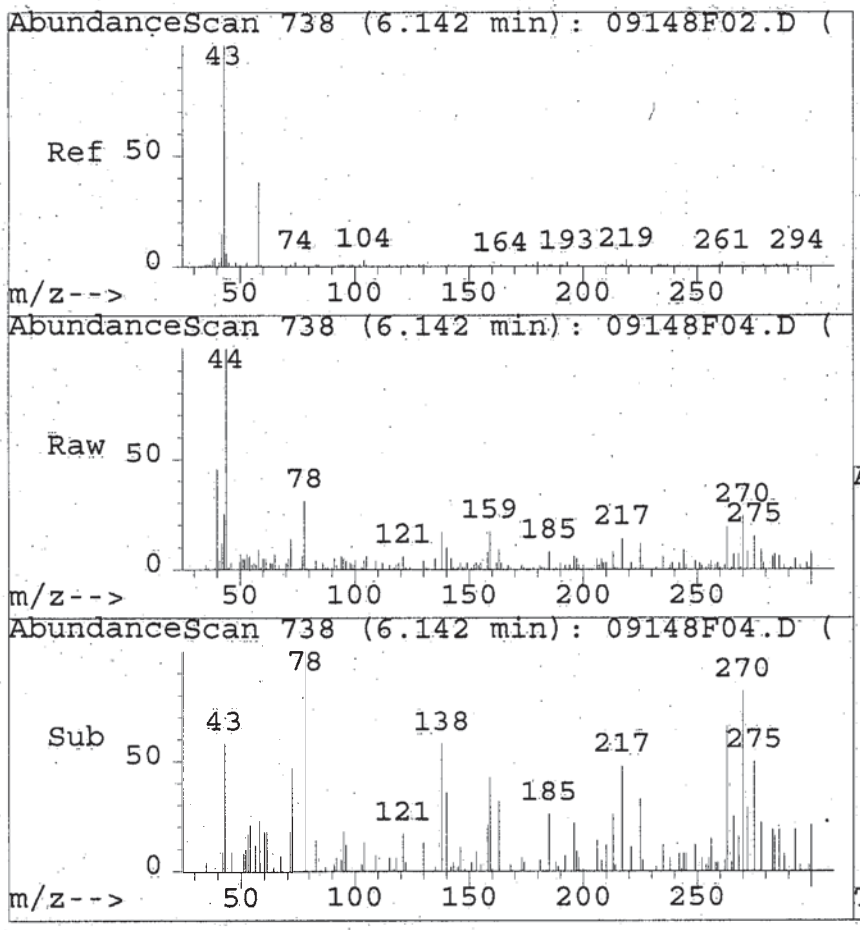
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F04.D
Acq On : 14 Sep 98 12:30
Sample : 07598 TRIP BLANK
Misc : NWIRP
Quant Time: Sep 14 13:45 1998

Vial: 1
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration

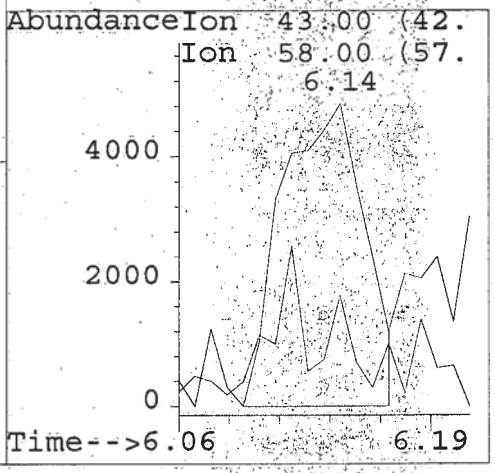


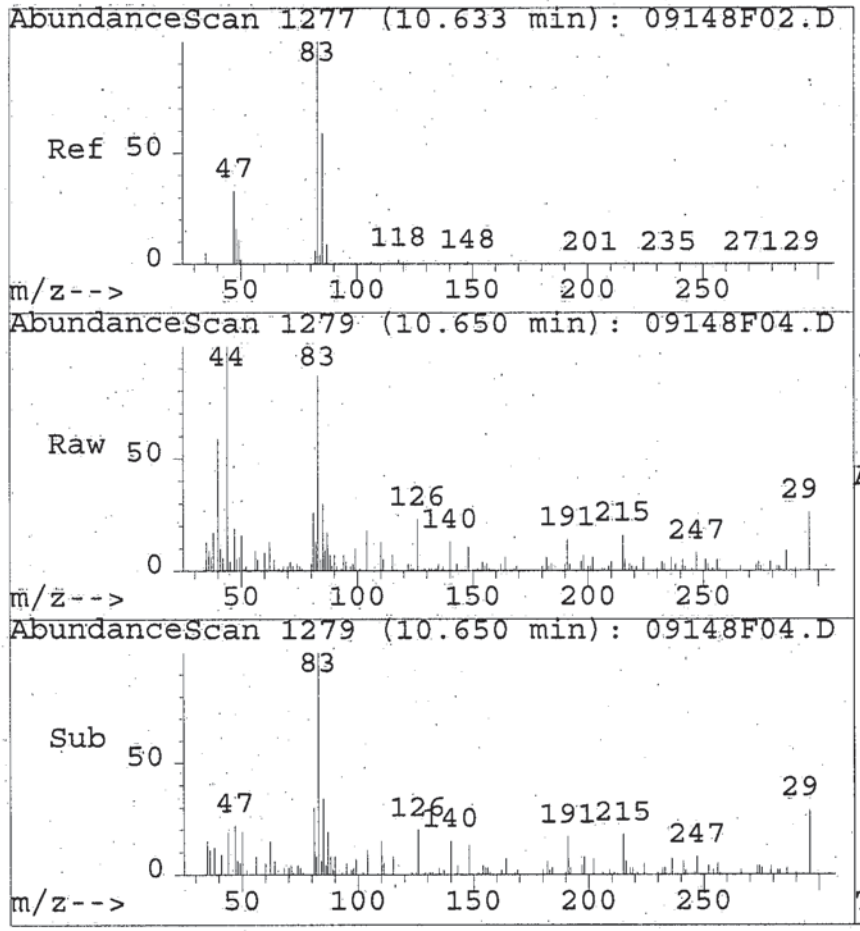


#10
2-Propanone (acetone)
Concen: 2.63 ug/l
RT: 6.14 min Scan# 738
Delta R.T. 0.03 min
Lab File: 09148F04.D
Acq: 14 Sep 98 12:30

Tgt Ion:43 Resp: 14461

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	25.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

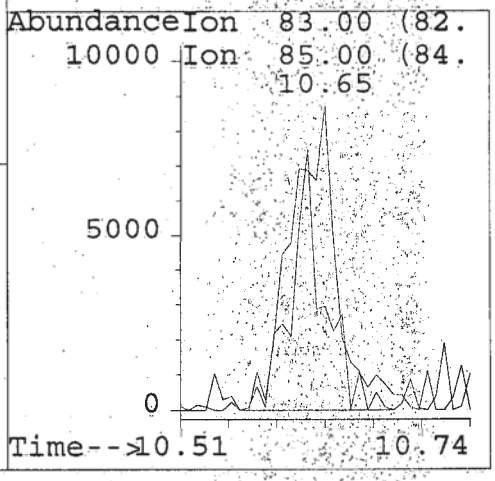


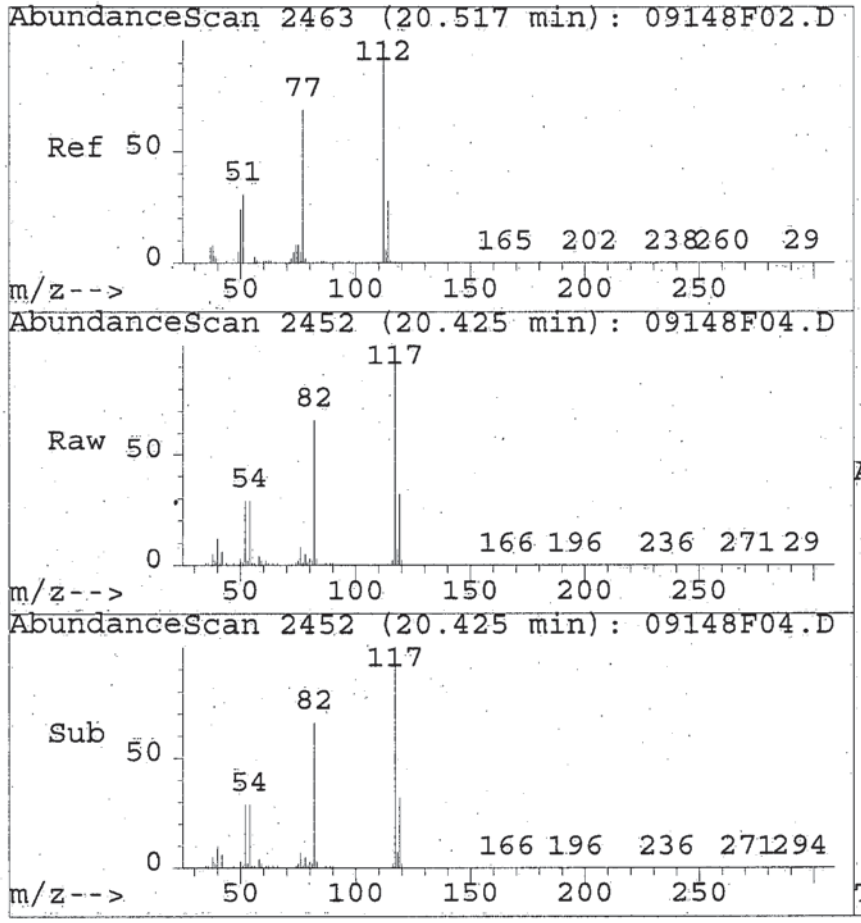


#24
Chloroform
Concen: 1.08 ug/l
RT: 10.65 min Scan# 1279
Delta R.T. 0.05 min
Lab File: 09148F04.D
Acq: 14 Sep 98 12:30

Tgt Ion:83 Resp: 25789

Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.8	74.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

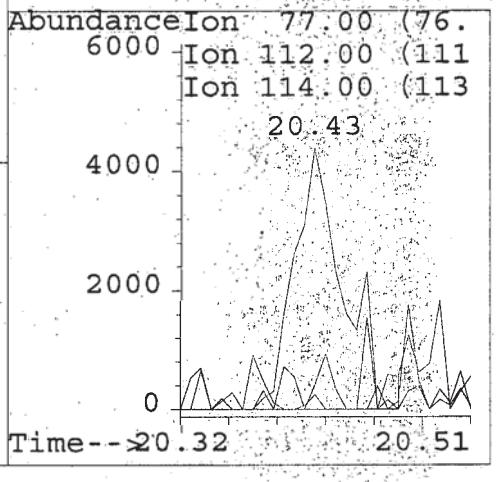


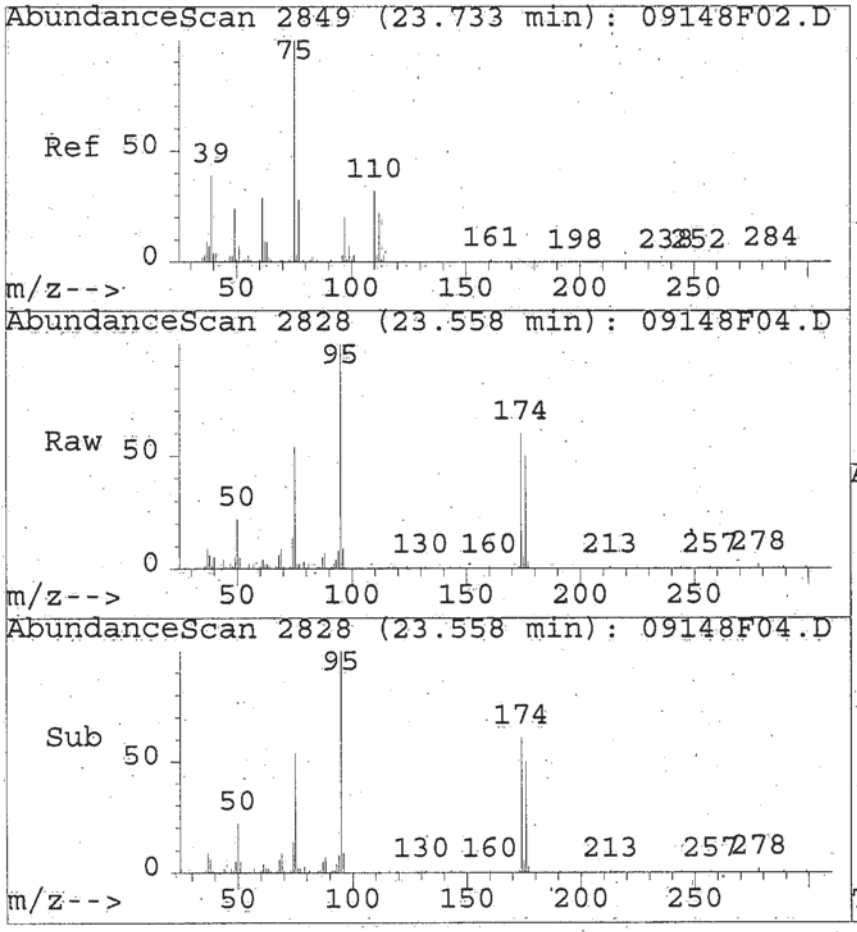


#39
Chlorobenzene
Concen: 0.53 ug/l
RT: 20.43 min Scan# 2452
Delta R.T. -0.07 min
Lab File: 09148F04.D
Acq: 14 Sep 98 12:30

Tgt Ion:77 Resp: 12188

Ion	Ratio	Lower	Upper
77	100		
112	0.0	101.0	151.6#
114	0.0	33.6	50.4#
0	0.0	0.0	0.0

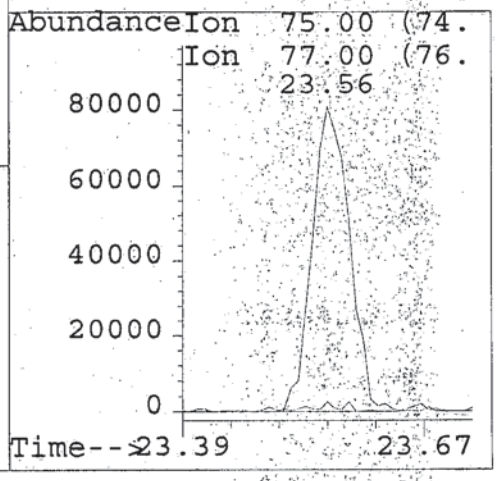




#63
1,2,3-Trichloropropane
Concen: 18.82 ug/l
RT: 23.56 min Scan# 2828
Delta R.T. -0.15 min
Lab File: 09148F04.D
Acq: 14 Sep 98 12:30

Tgt Ion:75 Resp: 242783

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



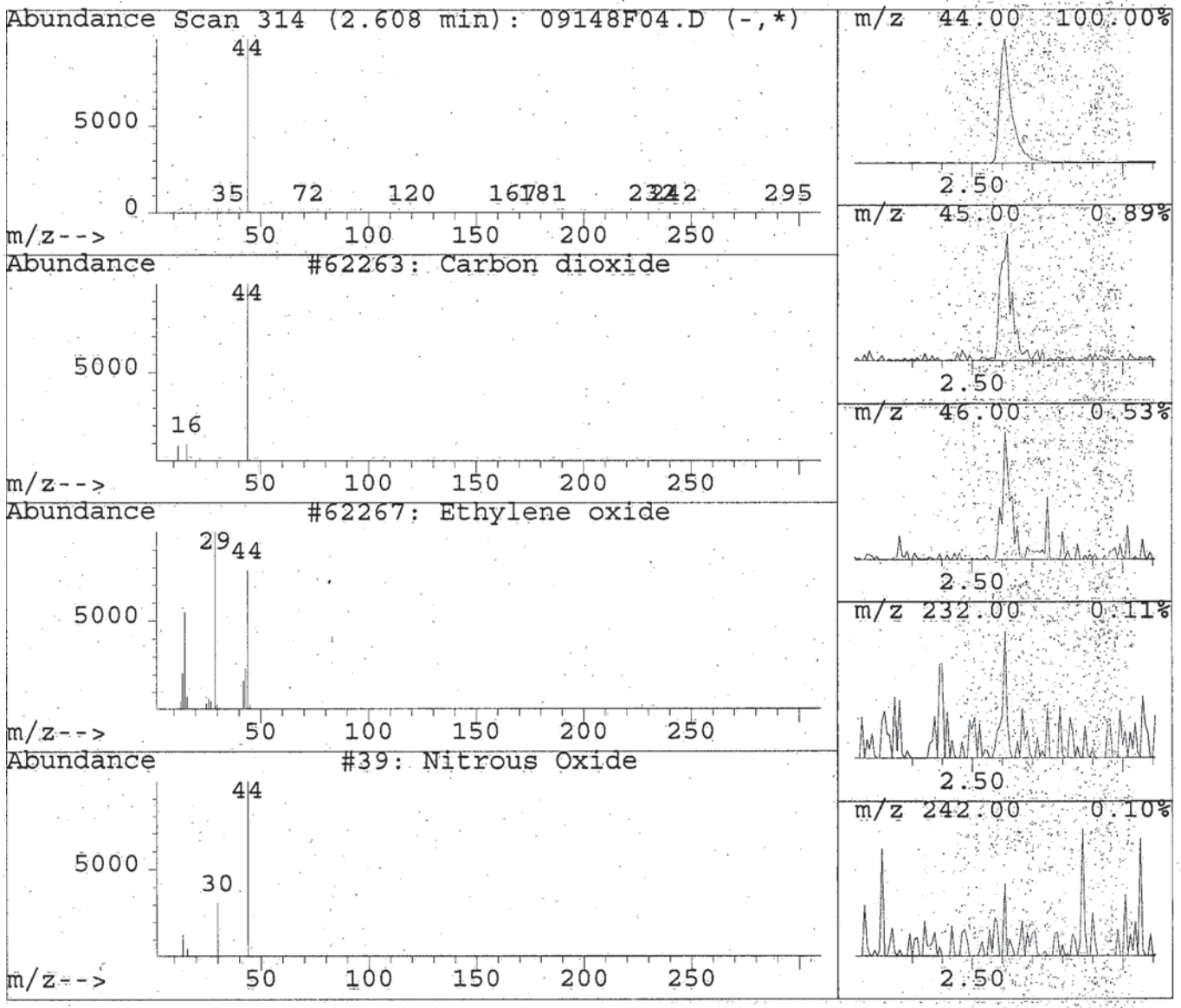
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F04.D Vial: 1
Acq On : 14 Sep 98 12:30 Operator:
Sample : 07598 TRIP BLANK Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.61	89.94 ug/l	6071830	Pentafluorobenzene	3375631	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Ethylene oxide	62267	000075-21-8	3
3	Nitrous Oxide	39	010024-97-2	3
4	Acetaldehyde	62265	000075-07-0	2
5	Ethyne, fluoro-	35	002713-09-9	2



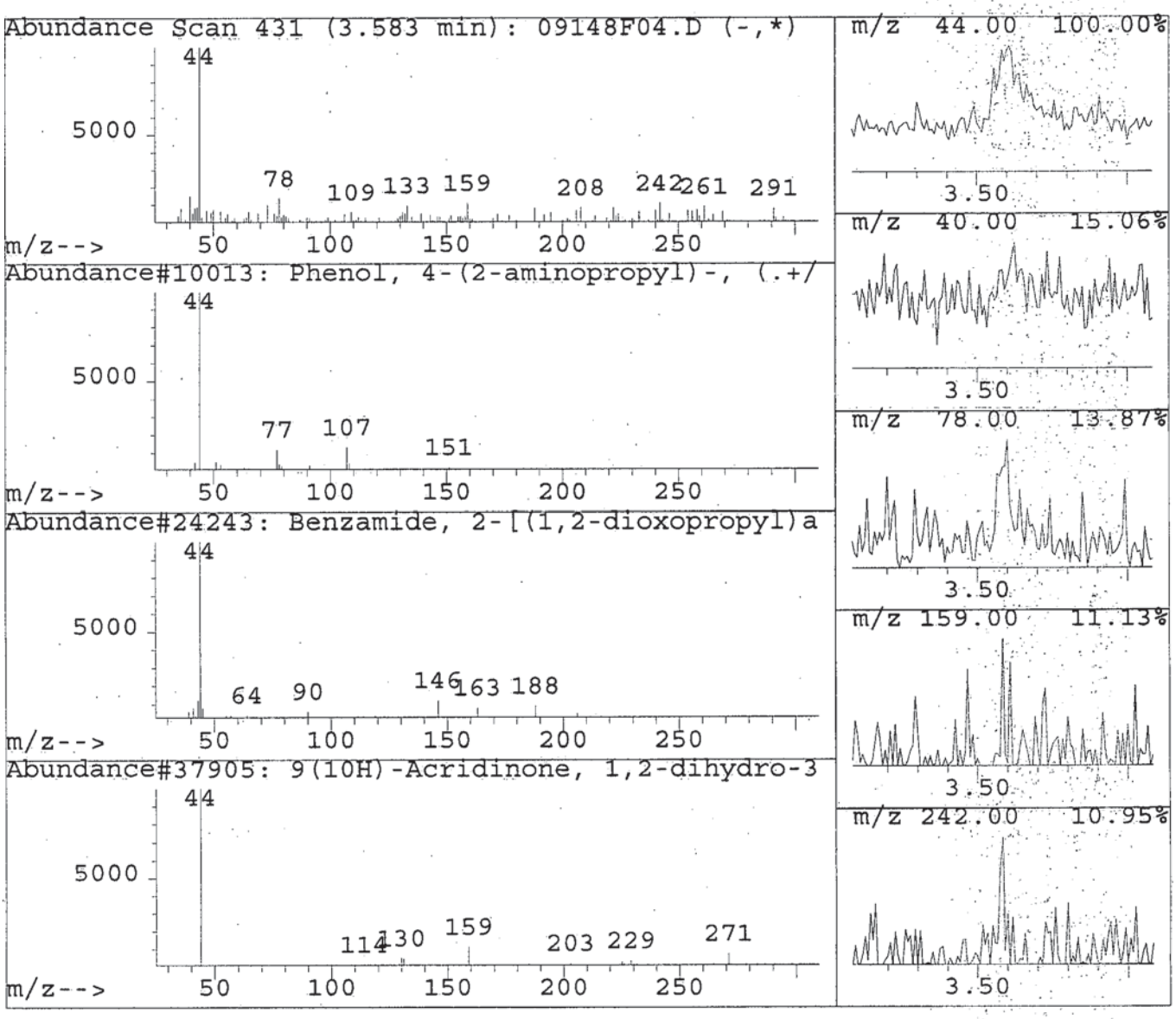
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F04.D Vial: 1
Acq On : 14 Sep 98 12:30 Operator:
Sample : 07598 TRIP BLANK Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.58	5.98 ug/l	403532	Pentafluorobenzene	3375631	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenol, 4-(2-aminopropyl)-, (.+/-.)	10013	001518-86-1	47
2	Benzamide, 2-[(1,2-dioxopropyl)amin	24243	018326-62-0	47
3	9(10H)-Acridinone, 1,2-dihydro-3-me	37905	000000-00-0	28
4	Tocainide	20719	041708-72-9	28
5	Dodecanoic acid, 11-amino-, methyl	29781	056817-92-6	28



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F09.D Vial: 4
Acq On : 14 Sep 98 17:22 Operator:
Sample : 07597 MS 25X SB217A1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 17 8:10 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.86	168	805466	50.00 ug/l	0.05 95.57%
28) 1,4-Difluorobenzene	13.13	114	1811203	50.00 ug/l	0.05 120.75%
40) Chlorobenzene-D5	20.44	117	1608187	50.00 ug/l	0.05 122.91%
60) 1,4-Dichlorobenzene-D4	26.60	152	713308	50.00 ug/l	0.05 114.57%
System Monitoring Compounds					**%Recovery**
2) 1,2-Dichloroethane-D4	12.26	65	361265	26.19 ug/l	104.78%
29) Toluene-D8	16.70	98	953675	23.43 ug/l	93.73%
41) 1,4-Bromofluorobenzene	23.58	95	403685	22.24 ug/l	88.97%
Target Compounds					**Qvalue**
10) 2-Propanone (acetone)	6.27	43	34608	8.08 ug/l #	55
12) 1,1-Dichloroethylene	6.34	96	240790	21.96 ug/l	96
21) 2-Butanone (MEK)	10.02	43	21075	3.40 ug/l #	61
24) Chloroform	10.66	83	13202	0.71 ug/l #	19
32) Benzene	12.49	78	982706	17.74 ug/l	100
35) Toluene	16.88	91	1025960	19.85 ug/l	90
39) Chlorobenzene	20.54	77	474323	22.84 ug/l	83
43) Trichloroethylene	13.88	95	214242	18.29 ug/l	99
63) 1,2,3-Trichloropropane	23.58	75	208337	17.45 ug/l #	1

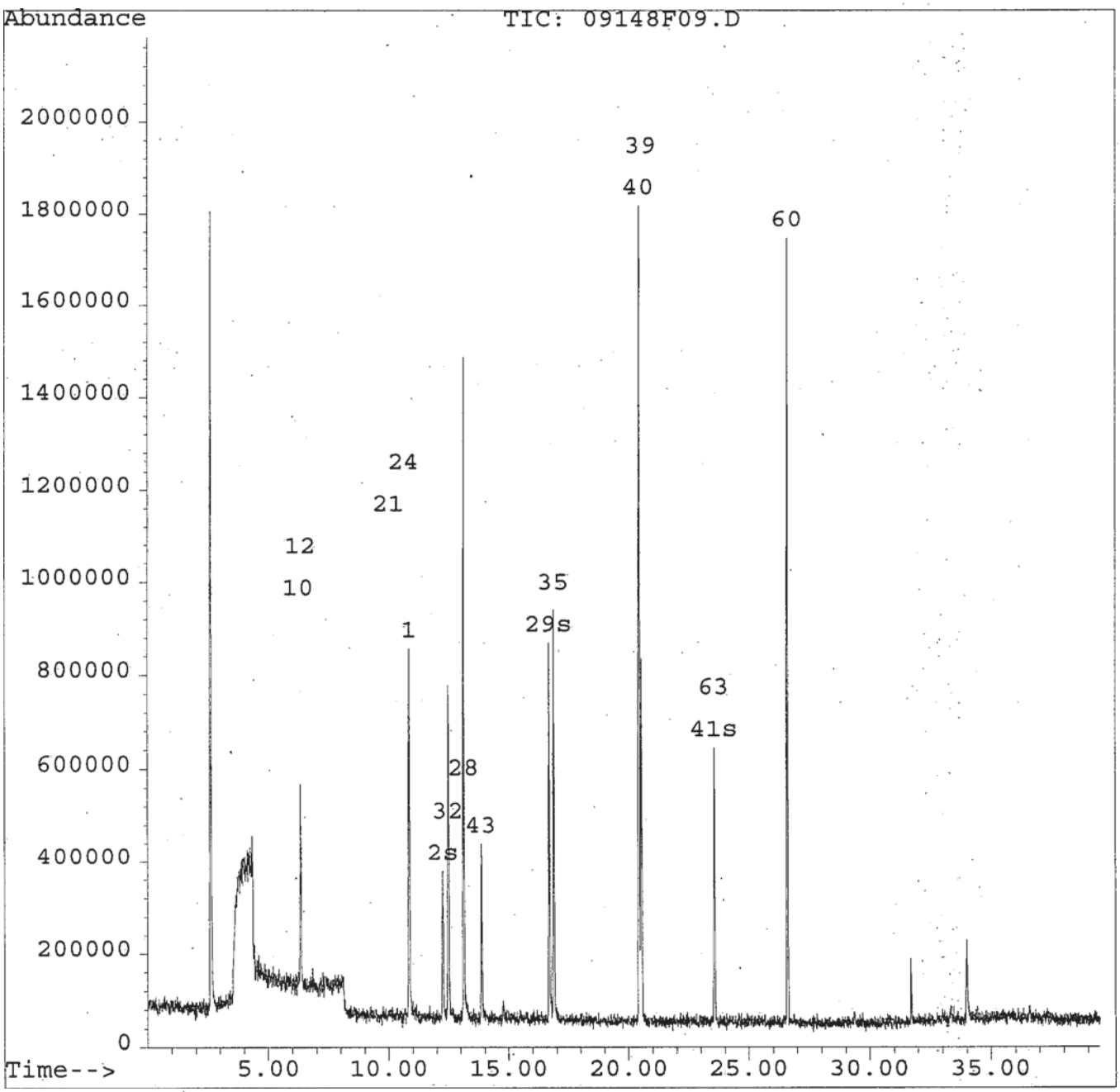
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F09.D
Acq On : 14 Sep 98 17:22
Sample : 07597 MS 25X SB217A1
Misc : NWIRP
Quant Time: Sep 17 8:10 1998

Vial: 4
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F10.D Vial: 5
Acq On : 14 Sep 98 18:16 Operator:
Sample : 07597 MSD 25X SB217A1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 17 8:08 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

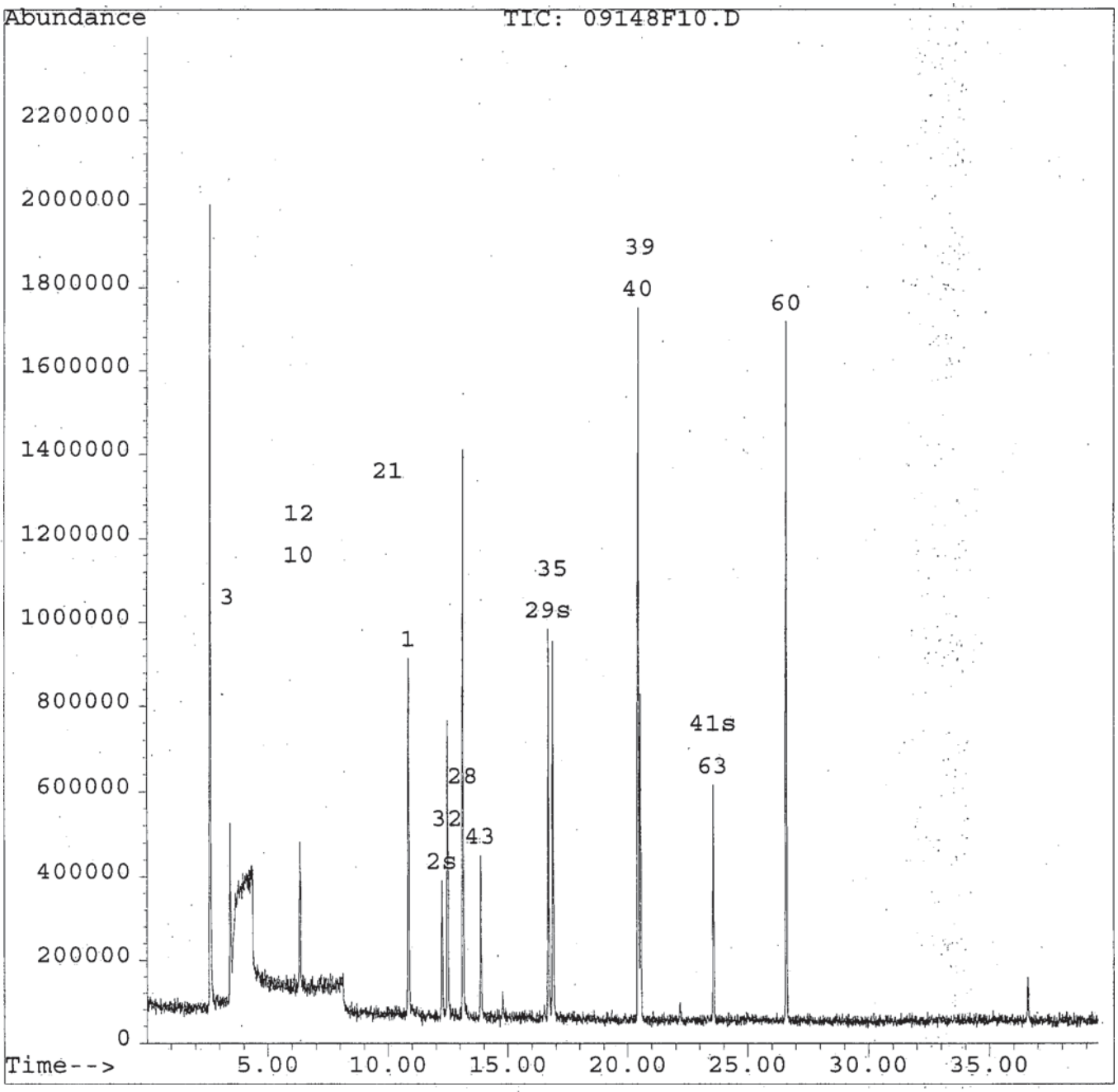
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.85	168	858035	50.00 ug/l	0.04 101.81%
28) 1,4-Difluorobenzene	13.13	114	1682337	50.00 ug/l	0.05 112.16%
40) Chlorobenzene-D5	20.44	117	1548303	50.00 ug/l	0.05 118.34%
60) 1,4-Dichlorobenzene-D4	26.59	152	687739	50.00 ug/l	0.04 110.46%
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.26	65	379793	25.85 ug/l	103.40%
29) Toluene-D8	16.69	98	977887	25.87 ug/l	103.47%
41) 1,4-Bromofluorobenzene	23.58	95	425693	24.36 ug/l	97.45%
Target Compounds					Qvalue
3) Chloromethane	3.36	50	10267	0.44 ug/l #	1
10) 2-Propanone (acetone)	6.28	43	37474	8.21 ug/l #	55
12) 1,1-Dichloroethylene	6.33	96	198627	17.00 ug/l	95
21) 2-Butanone (MEK)	9.98	43	13703	2.08 ug/l #	61
32) Benzene	12.49	78	997396	19.38 ug/l	100
35) Toluene	16.88	91	1077030	22.43 ug/l	93
39) Chlorobenzene	20.54	77	479900	24.88 ug/l	89
43) Trichloroethylene	13.88	95	207778	18.42 ug/l	95
63) 1,2,3-Trichloropropane	23.58	75	197064	17.12 ug/l #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP14\09148F10.D Vial: 5
Acq On : 14 Sep 98 18:16 Operator:
Sample : 07597 MSD 25X SB217A1 Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 17 8:08 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Mon Sep 14 11:55:06 1998
Response via : Multiple Level Calibration



File ID	Sample ID	PBB	1,4 BB	CLO2	1,4 BFB	% 1,2 DCA	% Tol-d8	% 1,4 BFB	Comments
09038F02	5 PPB	842761	1500005	1308342	622421	102	100	102	
03	10 PPB	848497	1546616	1416450	638735	105	102	107	
04	20 PPB	856679	1549498	1439827	625268	109	101	98	
05	50 PPB	845228	1532545	1413141	605965	99	102	100	
06	100 PPB	817978	1481894	1342713	570586	98	100	107	
09038F03	LMB Blank								DFB
03	50 PPB	908847	1636201	1488368	635799	107	95	97	
04	LMB Blank	975598	1745108	1534413	692712	103	93	97	HW - Water
05	Trip Blank	943932	1748584	1666960	729422	108	101	92	
06	KUDP-1 50X	918003	1760391	1615916	626112	103	92	89	
07	KUDP-2	990886	1744149	1563413	652128	104	97	91	
08	KUDP-3 5X	954987	1688265	1573135	652260	105	94	89	
09	KUDP-4 25X	988150	1626588	1592750	671107	106	89	89	
10	KUDP-5	913488	1648777	1516705	659062	109	94	91	
11	KUDP-6	969323	1739537	1599006	71984	104	95	92	
12	KUDP-7 25X	959190	1777834	1592526	663063	107	94	87	
13	KUDP-8	1003705	1732865	1582290	658088	98	95	88	
14	KUDP-9 50X	996408	1885879	1629369	692620	106	95	85	
15	KUDP-10	999403	1874569	1581273	666331	101	90	96	
16	KUDP-1 MS	930053	1758045	1546665	672136	98	92	92	
17	KUDP-1 MSD	957981	1777497	1687534	685833	103	93	85	
18	50 PPB	924034	1667148	1547938	669016	103	101	96	
09098F01	LB								BFB
02	50 PPB	842938	1616676	1606645	696671	107	97	98	
03	LB	964366	1801927	1554755	645873	105	94	89	
04	MB 50X	888777	1751150	1597065	712554	111	96	96	Soil HW
05	06885	1027354	1893562	1687531	698069	104	94	88	
06	08740 50X	895541	1768096	1616415	713935	110	45	91	
07	08740 50X	877110	1805559	1600449	708323	104	91	96	

#.ID	Sample ID	1,4 BFB	1,4 BFB	CLO,DS	1,4 BFB	1,2 DCA %	Tol-d8 %	1,4 BFB %	Comments
0148FB	LAB Blank								
02	50PB	1043997	1961548	1762025	730796	108	103	94	
03	LAB Blank	1071333	2023308	1728719	737176	103	94	91	
04	TRP BLANK 07598 25X	1032328	2003725	1711316	770814	111	98	98	
05	method Blank 25X	818983	1600316	1578818	730753	95	105	94	
06	07597 25X	850705	1865438	1650096	730343	119	92	96	
07	07600 25X	836601	1697931	1609999	710827	105	104	100	
08	07599 25X	795131	1767555	1671600	735608	109	94	93	
09	07597 MS 25X	805466	1811203	1608187	713308	105	94	89	
10	07597 MSD 25X	858035	1682337	1548303	687739	103	103	97	
11	07597 FF 25X	821938	1817097	1607218	726153	101	99	96	
12	07600 FF	845916	1756708	1622791	671612	102	101	92	
13	50PB'	948975	1919511	1588439	684594	113	97	97	

VOA MATRIX SPIKE QUANTITATION FORM

Sample # 0597

COMPOUND	MS REC. % 0914BF09	MSD REC. % 0914BF10	RPD	AVG.
1,1-Dichloroethylene	110	85	25	98
Chloroform				
1,2-Dichloroethane				
1,1,1-Trichloroethane				
Carbon Tetrachloride				
Bromodichloromethane				
Trichloroethylene	91	92	1	92
Benzene	89	97	9	93
Dibromochloromethane				
Bromoform				
1,4-Dichlorobenzene				
Vinyl Chloride				
Toluene	99	112	12	106
Chlorobenzene	114	124	8	119