CHEMTECH
110 Route 4 • Englewood, New Jersey 07631 Phone: (201) 567-6868 Fax: (201) 567-1333

SOUTH PLAINFIELD

212027

DATA PACKAGE FOR VOLATILE ORGANICS & PETROLEUM HYDROCARBONS

DSC OF NEWARK

ENVIRONMENTAL & SAFETY COMPLIANCE
465 SIDNEY RD.
PISCATAWAY, NJ 08854

CHEMTECH PROJECT NO. **9215 NJ**
ATTENTION **JOE LOCKWOOD**

Since 1967

CHEMTECH

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PROJECT # 9215NJ

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CHEMTECH CONSULTING GROUP

COVER PAGE

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000001

CHEMTECH

LABORATORY REPORT

COVER PAGE

Lab Name: Chemtech Consulting Group Client: ENVIR. & SAFETY COMPLIANCE COR
Lab Code: CHEM Project No.: 9215NJ Project Name: DSC OF NEWARK

Client Sample No.	Lab Sample ID
1A	55467
2A	55468
3A	55469
4A	55470
5A	55471
6A	55472
7A	55473
8A	55474
9A	55475
10A	55476
4B	55480
5B	55481
6B	55482

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designed, as verified by the following signature.

Signature: _____ Name: DIVYA MEHTA

000002

Date : 10/6/98 Title: LAB DIRECTOR

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

545 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

CHEMTECH CONSULTING GROUP

CHAIN OF CUSTODY RECORD

000003

CHEMTECH

CHAIN OF CUSTODY RECORD

Please check one.

North Jersey ☐
110 Route 4
Englewood, NJ 07631
(201) 567-6868 Fax (201) 567-1333

● **South Jersey** ☐
512 Route 9 South
Forked River, NJ 08731
(609) 693-2111 Fax (609) 971-9300

CHEMTECH JOB NO.: ●

CHEMTECH QUOTE NO.: 9215NJ

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: ENV. & SAFETY COMPLIANCE

ADDRESS: 465 - SIDNEY RD.

CITY: PISCATAWAY STATE: N.J ZIP: 08854

ATTENTION: JOE LOCKWOOD

PHONE: 732-465-9777 FAX: 732-465-9778

PROJECT INFORMATION

PROJECT NAME: DSC of Newark

PROJECT NO.:

PROJECT MANAGER: JOE LOCKWOOD

LOCATION: 333 HAMILTON BLVD., S.P.

PHONE: 732-465-9777 FAX: 732-465-9778

BILLING INFORMATION

BILL TO: SAME PO #:

ADDRESS: 1 of 3

CITY: STATE: ZIP:

ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

☐ 21 DAYS _____ APPROVED BY:
☐ 14 DAYS _____
☐ 7 DAYS _____
☐ OTHER _____

21 DAY TURNAROUND HARDCOPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED.

DATA DELIVERABLE INFORMATION

☐ NJ REDUCED ☐ CHEMTECH FORMAT
☐ NJ CLP ☐ RESULTS ONLY
☐ USEPA CLP ☐ DISKETTES
☐ NYS CLP ☐ NYS ASP
☐ OTHER _____

ANALYSIS

TPH VOA PENDING

PRESERVATIVES

CHEMTECH SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
								E	E				–				A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other ← Specify Preservatives
1. 55467	1A	Soil		X	9/29	445	1	X									
2. 55477	1B	Soil		X	9/29	447	1		X								VS2375
3. 55468	2A	Soil		X	9/29	448	1	X									
4. 55478	2B	Soil		X	9/29	450	1		X								VS 2370
5. 55469	3A	Soil		X	9/29	455	1	X									
6. 55479	3B	Soil		X	9/29	452	1		X								VS 2374
7. 55470	4A	Soil		X	9/29	456	1	X									
8. 55480	4B	Soil		X	9/29	500	1		X								VS 2376

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	9/29/98	1. W. Gabriel
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME: 9/29/98 220	RECEIVED FOR LAB BY: 3. Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler _____

Comments:

Pending VOA –
RUN 25% of HIGHEST TPH for VOA+10 TX, After authorization

WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

№ 020614

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CHAIN OF CUSTODY RECORD

North Jersey ☐
110 Route 4
Englewood, NJ 07631
(201) 567-6868 Fax (201) 567-1333

South Jersey ☐
512 Route 9 South
Forked River, NJ 08731
(609) 693-2111 Fax (609) 971-9300

CHEMTECH JOB NO.:

CHEMTECH QUOTE NO.: 9215NJ

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY:

ADDRESS: SAME

CITY: STATE: ZIP:

ATTENTION:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME:

PROJECT NO.: SAME

PROJECT MANAGER:

LOCATION:

PHONE: FAX:

BILLING INFORMATION

BILL TO: PO #:

ADDRESS: SAME 2 of 3

CITY: STATE: ZIP:

ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

☐ 21 DAYS _____ APPROVED BY:
☐ 14 DAYS _____
☐ 7 DAYS _____
☐ OTHER _____

21 DAY TURNAROUND HARDCOPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED.

DATA DELIVERABLE INFORMATION

☐ NJ REDUCED ☐ CHEMTECH FORMAT
☐ NJ CLP ☐ RESULTS ONLY
☐ USEPA CLP ☐ DISKETTES
☐ NYS CLP ☐ NYS ASP
☐ OTHER _____

ANALYSIS

TPH
VOA PENDING

CHEMTECH SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. 55471	5A	Soil		X	9/29	510	1	X									
2. 55481	5B	Soil		X	9/29	511	1		X								VS2368
3. 55472	6A	Soil		X	9/29	515	1	X									
4. 55482	6B	Soil		X	9/29	518	1		X								VS2372
5. 55473	7A	Soil		X	9/29	525	1	X									
6. 55483	7B	Soil		X	9/29	527	1		X								VS2366
7. 55474	8A	Soil		X	9/29	530	1	X									
8. 55484	8B	Soil		X	9/29	535	1		X								VS2371

PRESERVATIVES: C – ICE; C – ICE

COMMENTS: A – HCl, B – HNO_3, C – H_2SO_4, D – NaOH, E – ICE, F – Other ← Specify Preservatives

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]		1. [signature]
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME: 9/29 2:20 PM	RECEIVED FOR LAB BY: 3. Sunny Patel

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler _____
Comments:

WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

№ 020718

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CHAIN OF CUSTODY RECORD

North Jersey ☐
110 Route 4
Englewood, NJ 07631
(201) 567-6868 Fax (201) 567-1333

South Jersey ☐
512 Route 9 South
Forked River, NJ 08731
(609) 693-2111 Fax (609) 971-9300

CHEMTECH JOB NO.:

CHEMTECH QUOTE NO.: 9215NJ

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: SAME

ADDRESS:

CITY: STATE: ZIP:

ATTENTION:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME:

PROJECT NO.:

PROJECT MANAGER: SAME

LOCATION:

PHONE: FAX:

BILLING INFORMATION

BILL TO: 303 ~~PO #:~~

ADDRESS: SAME

CITY: STATE: ZIP:

ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

☐ 21 DAYS _____ APPROVED BY:
☐ 14 DAYS _____
☐ 7 DAYS _____
☐ OTHER _____

21 DAY TURNAROUND HARDCOPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED.

DATA DELIVERABLE INFORMATION

☒ NJ REDUCED ☐ CHEMTECH FORMAT
☐ NJ CLP ☐ RESULTS ONLY
☐ USEPA CLP ☐ DISKETTES
☐ NYS CLP ☐ NYS ASP
☐ OTHER _____

ANALYSIS

1 TPH 2 VOA Per Dung 3 4 5 6 7 8 9

PRESERVATIVES

A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other ← Specify Preservatives

CHEMTECH SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
								E	E								A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other ← Specify Preservatives
1. 55475	9A	Soil		X	9/29	546		X									
2. 55485	9B	Soil		X	9/29	548			X								VS2367
3. 55476	10A	Soil		X	9/29	549		X									
4. 55487	10B	Soil		X	9/29	550			X								VS2373
5.																	
6.																	
7.																	
8.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [illegible]		1. W. Madsen
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME: 2:20 9/29/98 P.M.	RECEIVED FOR LAB BY: 3. [illegible]

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler _____
Comments:

WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

№ 020615

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METHODOLOGY REVIEW

000005

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METHODOLOGY SUMMARY
PROJECT # 9215NJ

VOLATILE ORGANICS

The analysis of Volatile Organics is based on USEPA Method # 8260

PETROLEUM HYDROCARBONS

The analysis of TPH is based on extraction Method # 9071 and analytical methodology from EPA MCAWW Method # 418.1.

CHEMTECH CONSULTING GROUP

LABORATORY CHRONICLE

000009

CHEMTECH

LABORATORY CHRONICLE
PROJECT # 9215 NJ

ANALYSIS	COLLECTED DATE	DIGESTION/ EXTRACTION	ANALYZED DATE	ANALYST
VOLATILE ORGANICS	09/29/98	NA	10/05/98	RC
TPH	09/29/98	10/02/98	10/02/98	BS

CHEMTECH CONSULTING GROUP

CONFORMANCE/ NON-CONFORMANCE SUMMARY

CHEMTECH

DATA REPORTING QUALIFIERS - ORGANIC

For reporting results, the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, ie "10 U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed).

(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3 J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12 B".

E - Indicates the analyte's's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

P - This flag is used for a Pesticide/Aroclor target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

N - This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

CHEMTECH

DATA REPORTING QUALIFIERS - - INORGANIC

For reporting results, the following "Results Qualifiers" are used:

B - If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U - If the analyte was analyzed for, but not detected.

E - The reported value is estimated because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85 - 115%), while sample absorbance is less than 50% of spike absorbance.

*** -** Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

***** -** Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M (Method) qualifier

"P" for ICP
"A" for Flame AA
"F" for Furnace AA
"PM" for ICP when Microwave Digestion is used
"AM" for flame AA when Microwave Digestion is used
"FM" for furnace AA when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for Midi-Distillation Spectrophotometric
"AS" for Semi-Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" if the analyte is not required to be analyzed

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CONSULTING GROUP, INC.

GC/MS CONFORMANCE/NONCONFORMANCE SUMMARY

WORK ORDER No. 9215M5

	NO	YES
1. Chromatograms Labeled/Compounds Identified		✓
2. Tune Specifications		
a. BFB Meets Criteria		✓
b. DFTPP Meets Criteria		
3. Tuning Frequency Performed every 24 hrs for 600 series & 12 hrs for 8000 series		✓
4. Calibration Frequency Initial calibration performed within 30 days before sample analysis & cont. calibration performed within 24 hrs of sample analysis for 600 series & 12 hours for 8000 series		✓
5. Calibration Requirements		
a. Calibration Check Compounds (CCCs)		✓
b. System Performance Check Compounds (SPCCs)		
6. Blank Contamination If yes, list compounds & concentrations in each blank:	✓	
a. VOA Fraction		
b. B/N Fraction		
c. Acid Fraction		
7. Surrogate Recoveries Meet Criteria If not met, list compounds & their recoveries which fall outside acceptable range:	✓	
a. VOA Fraction: See Form 2B		
b. B/N Fraction		
c. Acid Fraction		
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list compounds & their recoveries which fall outside acceptable range:		✓
a. VOA Fraction		
b. B/N Fraction		
c. Acid Fraction		
9. Internal Standard Areas & Retention Time Shifts Meet Criteria Internal standard areas between -50% & +100% of daily standard		✓
10. Extraction Holding Time Met If not met, list number of days exceeded for each sample:		N.A
11. Analysis Holding time Met If not met, list number of days exceeded for each sample:		✓

Laboratory Supervisor: P.P Date: 10/6/95

000014

New Jersey Lab ID#: 02548 New York Lab ID#: 10624

CHEMTECH
CONSULTING GROUP, INC.

PETROLEUM HYDROCARBONS CONFORMANCE/NONCONFORMANCE SUMMARY

WORK ORDER No. 9215N-5

	NO	YES
1. Blank Contamination If yes, list concentrations in each blank:	✓	
2. Matrix Spike Recoveries Meet Criteria If not met, list those recoveries which fall outside the acceptable range:		✓
3. Sample Duplicate Analyses Meet QC Criteria If not met, list those criteria which fall outside the acceptable range:		✓
4. GC Fingerprinting Chromatograms Submitted for All Standards, Blanks, and sample (If applicable)		✓
5. Extraction Holding Time Met If not met, list number of days exceeded for each sample:		✓
6. Analysis Holding Time Met If not met, list number of days exceeded for each sample:		✓

Laboratory Supervisor: P.P Date: 10/6/98

New Jersey Lab ID# 02548 New York Lab ID# 10624

CHEMTECH CONSULTING GROUP

RESULTS SUMMARY

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55467
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 1A
TIME SAMPLED- 1645 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	2666	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	85.79	%

LABORATORY DIRECTOR

000017

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55468
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 2A
TIME SAMPLED- 1448 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	2005	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	84.62	%

LABORATORY DIRECTOR

000013

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55469
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 3A
TIME SAMPLED- 1655 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	2970	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	84.64	%

LABORATORY DIRECTOR _____

000019

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55470
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 4A
TIME SAMPLED- 1656 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	5419	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	79.08	%

LABORATORY DIRECTOR _____

000020

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55471
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 5A
TIME SAMPLED- 1710 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	7741	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	83.80	%

LABORATORY DIRECTOR _____

000021

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55472
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 6A
TIME SAMPLED- 1715 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	3365	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	80.11	%

LABORATORY DIRECTOR _____

000022

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

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NJDEP Certification No. 15004

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ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55473
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 7A
TIME SAMPLED- 1725 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	168	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	80.81	%

LABORATORY DIRECTOR _____

000023

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55474
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 8A
TIME SAMPLED- 1730 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	97.6	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	81.34	%

LABORATORY DIRECTOR _____

000024

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55475
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 9A
TIME SAMPLED- 1746 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	708	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	80.93	%

LABORATORY DIRECTOR _____

000025

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55476
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 10A
TIME SAMPLED- 1749 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	818	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	81.84	%

LABORATORY DIRECTOR _____

000026

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 693-2111 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

CHEMTECH CONSULTING GROUP

I.

VOLATILE ORGANICS DATA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

4B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55480

Sample wt/vol: 10.4 (g/mL) G

Lab File ID: M7653.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 21

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	790	U
74-87-3	Chloromethane	790	U
75-01-4	Vinyl Chloride	790	U
74-83-9	Bromomethane	790	U
75-00-3	Chloroethane	790	U
107-02-8	Acrolein	790	U
75-69-4	Trichlorofluoromethane	790	U
75-35-4	1,1-Dichloroethene	790	U
67-64-1	Acetone	790	U
75-15-0	Carbon Disulfide	790	U
75-09-2	Methylene Chloride	790	U
156-60-5	trans-1,2-Dichloroethene	790	U
107-13-1	Acrylonitrile	790	U
75-34-4	1,1-Dichloroethane	790	U
590-20-7	2,2-Dichloropropane	790	U
156-60-5	cis-1,2-dichloroethene	790	U
74-97-5	Bromochloromethane	790	U
67-66-3	Chloroform	790	U
71-55-6	1,1,1-Trichloroethane	790	U
108-05-4	Vinyl Acetate	790	U
78-93-3	2-Butanone	790	U
56-23-5	Carbon Tetrachloride	790	U
563-58-6	1,1-Dichloropropene	790	U
71-43-2	Benzene	790	U
107-06-2	1,2-Dichloroethane	790	U
79-01-6	Trichloroethene	790	U
78-87-5	1,2-Dichloropropane	790	U
74-95-3	Dibromomethane	790	U
75-27-4	Bromodichloromethane	790	U
110-07-3	2-Chloroethyl Vinyl Ether	790	U
10061-01-5	cis-1,3-Dichloropropene	790	U
108-88-3	Toluene	790	U
10061-02-6	trans-1,3-Dichloropropene	790	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

4B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55480

Sample wt/vol: 10.4 (g/mL) G

Lab File ID: M7653.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 21

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	790	U
108-10-1	4-Methyl-2-Pentanone	790	U
127-18-4	Tetrachloroethene	790	U
142-28-9	1,3-Dichloropropane	790	U
124-48-1	Dibromochloromethane	790	U
106-93-4	1,2-Dibromoethane	790	U
591-78-6	2-Hexanone	790	U
108-90-7	Chlorobenzene	790	U
630-20-6	1,1,1,2-Tetrachloroethane	790	U
100-41-4	Ethylbenzene	790	U
1330-20-7	m&p-xylenes	790	U
95-47-6	o-xylene	790	U
100-42-5	Styrene	790	U
75-25-2	Bromoform	790	U
98-82-8	isopropylbenzene	790	U
108-86-1	Bromobenzene	790	U
79-34-5	1,1,2,2-Tetrachloroethane	790	U
96-18-4	1,2,3-Trichloropropane	790	U
103-65-1	n-Propylbenzene	1400	
95-49-8	2-Chlorotoluene	790	U
106-43-4	4-Chlorotoluene	790	U
108-67-8	1,3,5-Trimethylbenzene	790	U
98-06-6	tert-Butylbenzene	790	U
95-63-6	1,2,4-Trimethylbenzene	790	U
135-98-8	sec-Butylbenzene	980	
541-73-1	1,3-Dichlorobenzene	790	U
99-87-6	4-Isopropyltoluene	790	U
106-46-7	1,4-Dichlorobenzene	790	U
95-50-1	1,2-Dichlorobenzene	790	U
104-51-8	n-Butylbenzene	790	U
96-12-8	1,2-Dibromo-3-chloropropane	790	U
120-82-1	1,2,4-Trichlorobenzene	790	U
87-68-3	Hexachlorobutadiene	790	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

4B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55480

Sample wt/vol: 10.4 (g/mL) G

Lab File ID: M7653.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 21

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
91-20-3	Naphthalene	790	U
87-61-6	1,2,3-Trichlorobenzene	790	U

FORM I VOA

3/90

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

4B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55480

Sample wt/vol: 10.4 (g/mL) G

Lab File ID: M7653.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 21

Date Analyzed: 10/5/98

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Number TICs found: 10

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 1678-92-8	Cyclohexane, propyl-	22.52	10800	J
2. 99-87-6	Benzene, 1-methyl-4-(1-methy	27.12	10100	J
3. 824-22-6	1H-Indene, 2,3-dihydro-4-met	29.13	11500	J
4.	Unknown	29.33	14500	J
5.	Unknown	29.60	13400	J
6.	Unknown	30.12	14300	J
7. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	30.28	19000	J
8. 1559-81-5	Naphthalene, 1,2,3,4-tetrahy	30.80	14400	J
9. 6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	32.56	10600	J
10. 91-57-6	Naphthalene, 2-methyl-	35.61	26900	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

5B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55481

Sample wt/vol: 11.4 (g/mL) G

Lab File ID: M7649.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 16

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	740	U
74-87-3	Chloromethane	740	U
75-01-4	Vinyl Chloride	740	U
74-83-9	Bromomethane	740	U
75-00-3	Chloroethane	740	U
107-02-8	Acrolein	740	U
75-69-4	Trichlorofluoromethane	740	U
75-35-4	1,1-Dichloroethene	740	U
67-64-1	Acetone	740	U
75-15-0	Carbon Disulfide	740	U
75-09-2	Methylene Chloride	740	U
156-60-5	trans-1,2-Dichloroethene	740	U
107-13-1	Acrylonitrile	740	U
75-34-4	1,1-Dichloroethane	740	U
590-20-7	2,2-Dichloropropane	740	U
156-60-5	cis-1,2-dichloroethene	740	U
74-97-5	Bromochloromethane	740	U
67-66-3	Chloroform	740	U
71-55-6	1,1,1-Trichloroethane	740	U
108-05-4	Vinyl Acetate	740	U
78-93-3	2-Butanone	740	U
56-23-5	Carbon Tetrachloride	740	U
563-58-6	1,1-Dichloropropene	740	U
71-43-2	Benzene	740	U
107-06-2	1,2-Dichloroethane	740	U
79-01-6	Trichloroethene	740	U
78-87-5	1,2-Dichloropropane	740	U
74-95-3	Dibromomethane	740	U
75-27-4	Bromodichloromethane	740	U
110-07-3	2-Chloroethyl Vinyl Ether	740	U
10061-01-5	cis-1,3-Dichloropropene	740	U
108-88-3	Toluene	740	U
10061-02-6	trans-1,3-Dichloropropene	740	U

FORM I VOA

3/90

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

5B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55481

Sample wt/vol: 11.4 (g/mL) G

Lab File ID: M7649.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 16

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	740	U
108-10-1	4-Methyl-2-Pentanone	740	U
127-18-4	Tetrachloroethene	740	U
142-28-9	1,3-Dichloropropane	740	U
124-48-1	Dibromochloromethane	740	U
106-93-4	1,2-Dibromoethane	740	U
591-78-6	2-Hexanone	740	U
108-90-7	Chlorobenzene	610	J
630-20-6	1,1,1,2-Tetrachloroethane	740	U
100-41-4	Ethylbenzene	740	U
1330-20-7	m&p-xylenes	740	U
95-47-6	o-xylene	740	U
100-42-5	Styrene	740	U
75-25-2	Bromoform	740	U
98-82-8	isopropylbenzene	1300	
108-86-1	Bromobenzene	740	U
79-34-5	1,1,2,2-Tetrachloroethane	740	U
96-18-4	1,2,3-Trichloropropane	740	U
103-65-1	n-Propylbenzene	2800	
95-49-8	2-Chlorotoluene	740	U
106-43-4	4-Chlorotoluene	740	U
108-67-8	1,3,5-Trimethylbenzene	740	U
98-06-6	tert-Butylbenzene	740	U
95-63-6	1,2,4-Trimethylbenzene	740	U
135-98-8	sec-Butylbenzene	2000	
541-73-1	1,3-Dichlorobenzene	740	U
99-87-6	4-Isopropyltoluene	740	U
106-46-7	1,4-Dichlorobenzene	840	
95-50-1	1,2-Dichlorobenzene	740	U
104-51-8	n-Butylbenzene	740	U
96-12-8	1,2-Dibromo-3-chloropropane	740	U
120-82-1	1,2,4-Trichlorobenzene	740	U
87-68-3	Hexachlorobutadiene	740	U

FORM I VOA

3/90

000032

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

5B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55481

Sample wt/vol: 11.4 (g/mL) G

Lab File ID: M7649.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 16

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
91-20-3	Naphthalene	740	U
87-61-6	1,2,3-Trichlorobenzene	740	U

FORM I VOA

3/90

000013

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

5B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55481

Sample wt/vol: 11.4 (g/mL) G

Lab File ID: M7649.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 16

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Number TICs found: 10

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 108-87-2	Cyclohexane, methyl-	15.67	22100	J
2. 934-80-5	Benzene, 4-ethyl-1,2-dimethy	27.11	13600	J
3. 824-22-6	1H-Indene, 2,3-dihydro-4-met	29.12	18600	J
4. 99-87-6	Benzene, 1-methyl-4-(1-methy	29.31	20700	J
5. 874-35-1	1H-Indene, 2,3-dihydro-5-met	29.60	17900	J
6. 17057-82-8	1H-Indene, 2,3-dihydro-1,2-d	30.11	16900	J
7. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	30.28	24800	J
8.	Unknown	30.78	19600	J
9. 6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	32.55	12200	J
10. 91-57-6	Naphthalene, 2-methyl-	35.59	29700	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7650.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	780	U
74-87-3	Chloromethane	780	U
75-01-4	Vinyl Chloride	1500	
74-83-9	Bromomethane	780	U
75-00-3	Chloroethane	780	U
107-02-8	Acrolein	780	U
75-69-4	Trichlorofluoromethane	780	U
75-35-4	1,1-Dichloroethene	780	U
67-64-1	Acetone	780	U
75-15-0	Carbon Disulfide	780	U
75-09-2	Methylene Chloride	780	U
156-60-5	trans-1,2-Dichloroethene	88700	E
107-13-1	Acrylonitrile	780	U
75-34-4	1,1-Dichloroethane	780	U
590-20-7	2,2-Dichloropropane	780	U
156-60-5	cis-1,2-dichloroethene	4700	
74-97-5	Bromochloromethane	780	U
67-66-3	Chloroform	780	U
71-55-6	1,1,1-Trichloroethane	780	U
108-05-4	Vinyl Acetate	780	U
78-93-3	2-Butanone	780	U
56-23-5	Carbon Tetrachloride	780	U
563-58-6	1,1-Dichloropropene	780	U
71-43-2	Benzene	810	
107-06-2	1,2-Dichloroethane	780	U
79-01-6	Trichloroethene	3800	
78-87-5	1,2-Dichloropropane	780	U
74-95-3	Dibromomethane	780	U
75-27-4	Bromodichloromethane	780	U
110-07-3	2-Chloroethyl Vinyl Ether	780	U
10061-01-5	cis-1,3-Dichloropropene	780	U
108-88-3	Toluene	1600	
10061-02-6	trans-1,3-Dichloropropene	780	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7650.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	780	U
108-10-1	4-Methyl-2-Pentanone	780	U
127-18-4	Tetrachloroethene	780	U
142-28-9	1,3-Dichloropropane	780	U
124-48-1	Dibromochloromethane	780	U
106-93-4	1,2-Dibromoethane	780	U
591-78-6	2-Hexanone	780	U
108-90-7	Chlorobenzene	780	U
630-20-6	1,1,1,2-Tetrachloroethane	780	U
100-41-4	Ethylbenzene	1300	
1330-20-7	m&p-xylenes	5400	
95-47-6	o-xylene	1900	
100-42-5	Styrene	780	U
75-25-2	Bromoform	780	U
98-82-8	isopropylbenzene	780	U
108-86-1	Bromobenzene	780	U
79-34-5	1,1,2,2-Tetrachloroethane	780	U
96-18-4	1,2,3-Trichloropropane	780	U
103-65-1	n-Propylbenzene	430	J
95-49-8	2-Chlorotoluene	780	U
106-43-4	4-Chlorotoluene	780	U
108-67-8	1,3,5-Trimethylbenzene	780	U
98-06-6	tert-Butylbenzene	780	U
95-63-6	1,2,4-Trimethylbenzene	1900	
135-98-8	sec-Butylbenzene	780	U
541-73-1	1,3-Dichlorobenzene	780	U
99-87-6	4-Isopropyltoluene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
95-50-1	1,2-Dichlorobenzene	780	U
104-51-8	n-Butylbenzene	690	J
96-12-8	1,2-Dibromo-3-chloropropane	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U
87-68-3	Hexachlorobutadiene	780	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7650.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
91-20-3	Naphthalene	780	U
87-61-6	1,2,3-Trichlorobenzene	780	U

FORM I VOA

3/90

000037

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

6B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7650.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Number TICs found: 10

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 108-87-2	Cyclohexane, methyl-	15.67	23900	J
2. 592-27-8	Heptane, 2-methyl-	16.41	9100	J
3.	Unknown	16.76	5900	J
4. 638-04-0	Cyclohexane, 1,3-dimethyl-,	17.53	10800	J
5. 111-65-9	Octane	17.65	10600	J
6. 1678-91-7	Cyclohexane, ethyl-	19.63	7300	J
7. 571-61-9	Naphthalene, 1,5-dimethyl-	25.35	6400	J
8. 527-53-7	Benzene, 1,2,3,5-tetramethyl	27.12	5700	J
9. 25155-15-1	Benzene, methyl(1-methylethy	29.33	5600	J
10. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	30.29	7000	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6BDL

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482DL

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7651.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	7800	UD
74-87-3	Chloromethane	7800	UD
75-01-4	Vinyl Chloride	7800	UD
74-83-9	Bromomethane	7800	UD
75-00-3	Chloroethane	7800	UD
107-02-8	Acrolein	7800	UD
75-69-4	Trichlorofluoromethane	7800	UD
75-35-4	1,1-Dichloroethene	7800	UD
67-64-1	Acetone	7800	UD
75-15-0	Carbon Disulfide	7800	UD
75-09-2	Methylene Chloride	7800	UD
156-60-5	trans-1,2-Dichloroethene	123200	D
107-13-1	Acrylonitrile	7800	UD
75-34-4	1,1-Dichloroethane	7800	UD
590-20-7	2,2-Dichloropropane	7800	UD
156-60-5	cis-1,2-dichloroethene	5800	JD
74-97-5	Bromochloromethane	7800	UD
67-66-3	Chloroform	7800	UD
71-55-6	1,1,1-Trichloroethane	7800	UD
108-05-4	Vinyl Acetate	7800	UD
78-93-3	2-Butanone	7800	UD
56-23-5	Carbon Tetrachloride	7800	UD
563-58-6	1,1-Dichloropropene	7800	UD
71-43-2	Benzene	7800	UD
107-06-2	1,2-Dichloroethane	7800	UD
79-01-6	Trichloroethene	4700	JD
78-87-5	1,2-Dichloropropane	7800	UD
74-95-3	Dibromomethane	7800	UD
75-27-4	Bromodichloromethane	7800	UD
110-07-3	2-Chloroethyl Vinyl Ether	7800	UD
10061-01-5	cis-1,3-Dichloropropene	7800	UD
108-88-3	Toluene	7800	UD
10061-02-6	trans-1,3-Dichloropropene	7800	UD

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6BDL

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482DL

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7651.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	7800	UD
108-10-1	4-Methyl-2-Pentanone	7800	UD
127-18-4	Tetrachloroethene	7800	UD
142-28-9	1,3-Dichloropropane	7800	UD
124-48-1	Dibromochloromethane	7800	UD
106-93-4	1,2-Dibromoethane	7800	UD
591-78-6	2-Hexanone	7800	UD
108-90-7	Chlorobenzene	7800	UD
630-20-6	1,1,1,2-Tetrachloroethane	7800	UD
100-41-4	Ethylbenzene	7800	UD
1330-20-7	m&p-xylenes	6500	JD
95-47-6	o-xylene	7800	UD
100-42-5	Styrene	7800	UD
75-25-2	Bromoform	7800	UD
98-82-8	isopropylbenzene	7800	UD
108-86-1	Bromobenzene	7800	UD
79-34-5	1,1,2,2-Tetrachloroethane	7800	UD
96-18-4	1,2,3-Trichloropropane	7800	UD
103-65-1	n-Propylbenzene	7800	UD
95-49-8	2-Chlorotoluene	7800	UD
106-43-4	4-Chlorotoluene	7800	UD
108-67-8	1,3,5-Trimethylbenzene	7800	UD
98-06-6	tert-Butylbenzene	7800	UD
95-63-6	1,2,4-Trimethylbenzene	7800	UD
135-98-8	sec-Butylbenzene	7800	UD
541-73-1	1,3-Dichlorobenzene	7800	UD
99-87-6	4-Isopropyltoluene	7800	UD
106-46-7	1,4-Dichlorobenzene	7800	UD
95-50-1	1,2-Dichlorobenzene	7800	UD
104-51-8	n-Butylbenzene	7800	UD
96-12-8	1,2-Dibromo-3-chloropropane	7800	UD
120-82-1	1,2,4-Trichlorobenzene	7800	UD
87-68-3	Hexachlorobutadiene	7800	UD

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6BDL

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482DL

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7651.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
91-20-3	Naphthalene	7800	UD
87-61-6	1,2,3-Trichlorobenzene	7800	UD

FORM I VOA

3/90

A.

ANALYTICAL RESULTS SUMMARY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

4B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55480

Sample wt/vol: 10.4 (g/mL) G Lab File ID: M7653.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 21 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	790	U
74-87-3	Chloromethane	790	U
75-01-4	Vinyl Chloride	790	U
74-83-9	Bromomethane	790	U
75-00-3	Chloroethane	790	U
107-02-8	Acrolein	790	U
75-69-4	Trichlorofluoromethane	790	U
75-35-4	1,1-Dichloroethene	790	U
67-64-1	Acetone	790	U
75-15-0	Carbon Disulfide	790	U
75-09-2	Methylene Chloride	790	U
156-60-5	trans-1,2-Dichloroethene	790	U
107-13-1	Acrylonitrile	790	U
75-34-4	1,1-Dichloroethane	790	U
590-20-7	2,2-Dichloropropane	790	U
156-60-5	cis-1,2-dichloroethene	790	U
74-97-5	Bromochloromethane	790	U
67-66-3	Chloroform	790	U
71-55-6	1,1,1-Trichloroethane	790	U
108-05-4	Vinyl Acetate	790	U
78-93-3	2-Butanone	790	U
56-23-5	Carbon Tetrachloride	790	U
563-58-6	1,1-Dichloropropene	790	U
71-43-2	Benzene	790	U
107-06-2	1,2-Dichloroethane	790	U
79-01-6	Trichloroethene	790	U
78-87-5	1,2-Dichloropropane	790	U
74-95-3	Dibromomethane	790	U
75-27-4	Bromodichloromethane	790	U
110-07-3	2-Chloroethyl Vinyl Ether	790	U
10061-01-5	cis-1,3-Dichloropropene	790	U
108-88-3	Toluene	790	U
10061-02-6	trans-1,3-Dichloropropene	790	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

4B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55480

Sample wt/vol: 10.4 (g/mL) G Lab File ID: M7653.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 21 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	790	U
108-10-1	4-Methyl-2-Pentanone	790	U
127-18-4	Tetrachloroethene	790	U
142-28-9	1,3-Dichloropropane	790	U
124-48-1	Dibromochloromethane	790	U
106-93-4	1,2-Dibromoethane	790	U
591-78-6	2-Hexanone	790	U
108-90-7	Chlorobenzene	790	U
630-20-6	1,1,1,2-Tetrachloroethane	790	U
100-41-4	Ethylbenzene	790	U
1330-20-7	m&p-xylenes	790	U
95-47-6	o-xylene	790	U
100-42-5	Styrene	790	U
75-25-2	Bromoform	790	U
98-82-8	isopropylbenzene	790	U
108-86-1	Bromobenzene	790	U
79-34-5	1,1,2,2-Tetrachloroethane	790	U
96-18-4	1,2,3-Trichloropropane	790	U
103-65-1	n-Propylbenzene	1400	
95-49-8	2-Chlorotoluene	790	U
106-43-4	4-Chlorotoluene	790	U
108-67-8	1,3,5-Trimethylbenzene	790	U
98-06-6	tert-Butylbenzene	790	U
95-63-6	1,2,4-Trimethylbenzene	790	U
135-98-8	sec-Butylbenzene	980	
541-73-1	1,3-Dichlorobenzene	790	U
99-87-6	4-Isopropyltoluene	790	U
106-46-7	1,4-Dichlorobenzene	790	U
95-50-1	1,2-Dichlorobenzene	790	U
104-51-8	n-Butylbenzene	790	U
96-12-8	1,2-Dibromo-3-chloropropane	790	U
120-82-1	1,2,4-Trichlorobenzene	790	U
87-68-3	Hexachlorobutadiene	790	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
4B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55480

Sample wt/vol: 10.4 (g/mL) G Lab File ID: M7653.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 21 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
91-20-3	Naphthalene	790	U
87-61-6	1,2,3-Trichlorobenzene	790	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

4B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215 Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55480

Sample wt/vol: 10.4 (g/mL) G Lab File ID: M7653.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 21 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 1678-92-8	Cyclohexane, propyl-	22.52	10800	J
2. 99-87-6	Benzene, 1-methyl-4-(1-methy	27.12	10100	J
3. 824-22-6	1H-Indene, 2,3-dihydro-4-met	29.13	11500	J
4.	Unknown	29.33	14500	J
5.	Unknown	29.60	13400	J
6.	Unknown	30.12	14300	J
7. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	30.28	19000	J
8. 1559-81-5	Naphthalene, 1,2,3,4-tetrahy	30.80	14400	J
9. 6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	32.56	10600	J
10. 91-57-6	Naphthalene, 2-methyl-	35.61	26900	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

5B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55481

Sample wt/vol: 11.4 (g/mL) G Lab File ID: M7649.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 16 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	740	U
74-87-3	Chloromethane	740	U
75-01-4	Vinyl Chloride	740	U
74-83-9	Bromomethane	740	U
75-00-3	Chloroethane	740	U
107-02-8	Acrolein	740	U
75-69-4	Trichlorofluoromethane	740	U
75-35-4	1,1-Dichloroethene	740	U
67-64-1	Acetone	740	U
75-15-0	Carbon Disulfide	740	U
75-09-2	Methylene Chloride	740	U
156-60-5	trans-1,2-Dichloroethene	740	U
107-13-1	Acrylonitrile	740	U
75-34-4	1,1-Dichloroethane	740	U
590-20-7	2,2-Dichloropropane	740	U
156-60-5	cis-1,2-dichloroethene	740	U
74-97-5	Bromochloromethane	740	U
67-66-3	Chloroform	740	U
71-55-6	1,1,1-Trichloroethane	740	U
108-05-4	Vinyl Acetate	740	U
78-93-3	2-Butanone	740	U
56-23-5	Carbon Tetrachloride	740	U
563-58-6	1,1-Dichloropropene	740	U
71-43-2	Benzene	740	U
107-06-2	1,2-Dichloroethane	740	U
79-01-6	Trichloroethene	740	U
78-87-5	1,2-Dichloropropane	740	U
74-95-3	Dibromomethane	740	U
75-27-4	Bromodichloromethane	740	U
110-07-3	2-Chloroethyl Vinyl Ether	740	U
10061-01-5	cis-1,3-Dichloropropene	740	U
108-88-3	Toluene	740	U
10061-02-6	trans-1,3-Dichloropropene	740	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
5B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55481

Sample wt/vol: 11.4 (g/mL) G Lab File ID: M7649.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 16 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	740	U
108-10-1	4-Methyl-2-Pentanone	740	U
127-18-4	Tetrachloroethene	740	U
142-28-9	1,3-Dichloropropane	740	U
124-48-1	Dibromochloromethane	740	U
106-93-4	1,2-Dibromoethane	740	U
591-78-6	2-Hexanone	740	U
108-90-7	Chlorobenzene	610	J
630-20-6	1,1,1,2-Tetrachloroethane	740	U
100-41-4	Ethylbenzene	740	U
1330-20-7	m&p-xylenes	740	U
95-47-6	o-xylene	740	U
100-42-5	Styrene	740	U
75-25-2	Bromoform	740	U
98-82-8	isopropylbenzene	1300	
108-86-1	Bromobenzene	740	U
79-34-5	1,1,2,2-Tetrachloroethane	740	U
96-18-4	1,2,3-Trichloropropane	740	U
103-65-1	n-Propylbenzene	2800	
95-49-8	2-Chlorotoluene	740	U
106-43-4	4-Chlorotoluene	740	U
108-67-8	1,3,5-Trimethylbenzene	740	U
98-06-6	tert-Butylbenzene	740	U
95-63-6	1,2,4-Trimethylbenzene	740	U
135-98-8	sec-Butylbenzene	2000	
541-73-1	1,3-Dichlorobenzene	740	U
99-87-6	4-Isopropyltoluene	740	U
106-46-7	1,4-Dichlorobenzene	840	
95-50-1	1,2-Dichlorobenzene	740	U
104-51-8	n-Butylbenzene	740	U
96-12-8	1,2-Dibromo-3-chloropropane	740	U
120-82-1	1,2,4-Trichlorobenzene	740	U
87-68-3	Hexachlorobutadiene	740	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

5B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55481

Sample wt/vol: 11.4 (g/mL) G

Lab File ID: M7649.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 16

Date Analyzed: 10/5/98

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
91-20-3	Naphthalene	740	U
87-61-6	1,2,3-Trichlorobenzene	740	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
5B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215 Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55481

Sample wt/vol: 11.4 (g/mL) G Lab File ID: M7649.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 16 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 108-87-2	Cyclohexane, methyl-	15.67	22100	J
2. 934-80-5	Benzene, 4-ethyl-1,2-dimethy	27.11	13600	J
3. 824-22-6	1H-Indene, 2,3-dihydro-4-met	29.12	18600	J
4. 99-87-6	Benzene, 1-methyl-4-(1-methy	29.31	20700	J
5. 874-35-1	1H-Indene, 2,3-dihydro-5-met	29.60	17900	J
6. 17057-82-8	1H-Indene, 2,3-dihydro-1,2-d	30.11	16900	J
7. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	30.28	24800	J
8.	Unknown	30.78	19600	J
9. 6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	32.55	12200	J
10. 91-57-6	Naphthalene, 2-methyl-	35.59	29700	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
6B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55482

Sample wt/vol: 9.7 (g/mL) G Lab File ID: M7650.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 20 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	780	U
74-87-3	Chloromethane	780	U
75-01-4	Vinyl Chloride	1500	
74-83-9	Bromomethane	780	U
75-00-3	Chloroethane	780	U
107-02-8	Acrolein	780	U
75-69-4	Trichlorofluoromethane	780	U
75-35-4	1,1-Dichloroethene	780	U
67-64-1	Acetone	780	U
75-15-0	Carbon Disulfide	780	U
75-09-2	Methylene Chloride	780	U
156-60-5	trans-1,2-Dichloroethene	88700	E
107-13-1	Acrylonitrile	780	U
75-34-4	1,1-Dichloroethane	780	U
590-20-7	2,2-Dichloropropane	780	U
156-60-5	cis-1,2-dichloroethene	4700	
74-97-5	Bromochloromethane	780	U
67-66-3	Chloroform	780	U
71-55-6	1,1,1-Trichloroethane	780	U
108-05-4	Vinyl Acetate	780	U
78-93-3	2-Butanone	780	U
56-23-5	Carbon Tetrachloride	780	U
563-58-6	1,1-Dichloropropene	780	U
71-43-2	Benzene	810	
107-06-2	1,2-Dichloroethane	780	U
79-01-6	Trichloroethene	3800	
78-87-5	1,2-Dichloropropane	780	U
74-95-3	Dibromomethane	780	U
75-27-4	Bromodichloromethane	780	U
110-07-3	2-Chloroethyl Vinyl Ether	780	U
10061-01-5	cis-1,3-Dichloropropene	780	U
108-88-3	Toluene	1600	
10061-02-6	trans-1,3-Dichloropropene	780	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6B

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55482

Sample wt/vol: 9.7 (g/mL) G Lab File ID: M7650.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 20 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	780	U
108-10-1	4-Methyl-2-Pentanone	780	U
127-18-4	Tetrachloroethene	780	U
142-28-9	1,3-Dichloropropane	780	U
124-48-1	Dibromochloromethane	780	U
106-93-4	1,2-Dibromoethane	780	U
591-78-6	2-Hexanone	780	U
108-90-7	Chlorobenzene	780	U
630-20-6	1,1,1,2-Tetrachloroethane	780	U
100-41-4	Ethylbenzene	1300	
1330-20-7	m&p-xylenes	5400	
95-47-6	o-xylene	1900	
100-42-5	Styrene	780	U
75-25-2	Bromoform	780	U
98-82-8	isopropylbenzene	780	U
108-86-1	Bromobenzene	780	U
79-34-5	1,1,2,2-Tetrachloroethane	780	U
96-18-4	1,2,3-Trichloropropane	780	U
103-65-1	n-Propylbenzene	430	J
95-49-8	2-Chlorotoluene	780	U
106-43-4	4-Chlorotoluene	780	U
108-67-8	1,3,5-Trimethylbenzene	780	U
98-06-6	tert-Butylbenzene	780	U
95-63-6	1,2,4-Trimethylbenzene	1900	
135-98-8	sec-Butylbenzene	780	U
541-73-1	1,3-Dichlorobenzene	780	U
99-87-6	4-Isopropyltoluene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
95-50-1	1,2-Dichlorobenzene	780	U
104-51-8	n-Butylbenzene	690	J
96-12-8	1,2-Dibromo-3-chloropropane	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U
87-68-3	Hexachlorobutadiene	780	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7650.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
91-20-3	Naphthalene	780	U
87-61-6	1,2,3-Trichlorobenzene	780	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

6B

Lab Name: CHEMTECH

Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215

Site:

Location:

Group: 1A

Matrix: (soil/water) SOIL

Lab Sample ID: O55482

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: M7650.D

Level: (low/med) MED

Date Received: 9/30/98

% Moisture: not dec. 20

Date Analyzed: 10/5/98

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL)

Soil Aliquot Volume: 100 (uL)

Number TICs found: 10

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 108-87-2	Cyclohexane, methyl-	15.67	23900	J
2. 592-27-8	Heptane, 2-methyl-	16.41	9100	J
3.	Unknown	16.76	5900	J
4. 638-04-0	Cyclohexane, 1,3-dimethyl-,	17.53	10800	J
5. 111-65-9	Octane	17.65	10600	J
6. 1678-91-7	Cyclohexane, ethyl-	19.63	7300	J
7. 571-61-9	Naphthalene, 1,5-dimethyl-	25.35	6400	J
8. 527-53-7	Benzene, 1,2,3,5-tetramethyl	27.12	5700	J
9. 25155-15-1	Benzene, methyl(1-methylethy	29.33	5600	J
10. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	30.29	7000	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6BDL

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55482DL

Sample wt/vol: 9.7 (g/mL) G Lab File ID: M7651.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 20 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	7800	UD
74-87-3	Chloromethane	7800	UD
75-01-4	Vinyl Chloride	7800	UD
74-83-9	Bromomethane	7800	UD
75-00-3	Chloroethane	7800	UD
107-02-8	Acrolein	7800	UD
75-69-4	Trichlorofluoromethane	7800	UD
75-35-4	1,1-Dichloroethene	7800	UD
67-64-1	Acetone	7800	UD
75-15-0	Carbon Disulfide	7800	UD
75-09-2	Methylene Chloride	7800	UD
156-60-5	trans-1,2-Dichloroethene	123200	D
107-13-1	Acrylonitrile	7800	UD
75-34-4	1,1-Dichloroethane	7800	UD
590-20-7	2,2-Dichloropropane	7800	UD
156-60-5	cis-1,2-dichloroethene	5800	JD
74-97-5	Bromochloromethane	7800	UD
67-66-3	Chloroform	7800	UD
71-55-6	1,1,1-Trichloroethane	7800	UD
108-05-4	Vinyl Acetate	7800	UD
78-93-3	2-Butanone	7800	UD
56-23-5	Carbon Tetrachloride	7800	UD
563-58-6	1,1-Dichloropropene	7800	UD
71-43-2	Benzene	7800	UD
107-06-2	1,2-Dichloroethane	7800	UD
79-01-6	Trichloroethene	4700	JD
78-87-5	1,2-Dichloropropane	7800	UD
74-95-3	Dibromomethane	7800	UD
75-27-4	Bromodichloromethane	7800	UD
110-07-3	2-Chloroethyl Vinyl Ether	7800	UD
10061-01-5	cis-1,3-Dichloropropene	7800	UD
108-88-3	Toluene	7800	UD
10061-02-6	trans-1,3-Dichloropropene	7800	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
6BDL

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55482DL

Sample wt/vol: 9.7 (g/mL) G Lab File ID: M7651.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 20 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	7800	UD
108-10-1	4-Methyl-2-Pentanone	7800	UD
127-18-4	Tetrachloroethene	7800	UD
142-28-9	1,3-Dichloropropane	7800	UD
124-48-1	Dibromochloromethane	7800	UD
106-93-4	1,2-Dibromoethane	7800	UD
591-78-6	2-Hexanone	7800	UD
108-90-7	Chlorobenzene	7800	UD
630-20-6	1,1,1,2-Tetrachloroethane	7800	UD
100-41-4	Ethylbenzene	7800	UD
1330-20-7	m&p-xylenes	6500	JD
95-47-6	o-xylene	7800	UD
100-42-5	Styrene	7800	UD
75-25-2	Bromoform	7800	UD
98-82-8	isopropylbenzene	7800	UD
108-86-1	Bromobenzene	7800	UD
79-34-5	1,1,2,2-Tetrachloroethane	7800	UD
96-18-4	1,2,3-Trichloropropane	7800	UD
103-65-1	n-Propylbenzene	7800	UD
95-49-8	2-Chlorotoluene	7800	UD
106-43-4	4-Chlorotoluene	7800	UD
108-67-8	1,3,5-Trimethylbenzene	7800	UD
98-06-6	tert-Butylbenzene	7800	UD
95-63-6	1,2,4-Trimethylbenzene	7800	UD
135-98-8	sec-Butylbenzene	7800	UD
541-73-1	1,3-Dichlorobenzene	7800	UD
99-87-6	4-Isopropyltoluene	7800	UD
106-46-7	1,4-Dichlorobenzene	7800	UD
95-50-1	1,2-Dichlorobenzene	7800	UD
104-51-8	n-Butylbenzene	7800	UD
96-12-8	1,2-Dibromo-3-chloropropane	7800	UD
120-82-1	1,2,4-Trichlorobenzene	7800	UD
87-68-3	Hexachlorobutadiene	7800	UD

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

6BDL

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: O55482DL

Sample wt/vol: 9.7 (g/mL) G Lab File ID: M7651.D

Level: (low/med) MED Date Received: 9/30/98

% Moisture: not dec. 20 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
91-20-3	Naphthalene	7800	UD
87-61-6	1,2,3-Trichlorobenzene	7800	UD

B.

TUNING RESULTS SUMMARY

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: _____ Location: _____ Group: 1A

Lab File ID: M7453.D BFB Injection Date: 9/19/98

Instrument ID: VOA 3 BFB Injection Time: 0907

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	45.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	85.5
175	5.0 - 9.0% of mass 174	6.4 (7.5)1
176	Greater than 95% but less than 101% of mass 174	83.3 (97.4)1
177	5.0 - 9.0% of mass 176	5.5 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	M7454.D	9/19/98	0935
02	VSTD200	VSTD200	M7456.D	9/19/98	1103
03	VSTD100	VSTD100	M7457.D	9/19/98	1147
04	VSTD020	VSTD020	M7458.D	9/19/98	1230
05	VSTD005	VSTD005	M7459.D	9/19/98	1315
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: _____ Location: _____ Group: 1A

Lab File ID: M7644.D BFB Injection Date: 10/5/98

Instrument ID: VOA 3 BFB Injection Time: 0747

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.0
75	30.0 - 60.0% of mass 95	43.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	86.9
175	5.0 - 9.0% of mass 174	6.7 (7.7)1
176	Greater than 95% but less than 101% of mass 174	86.1 (99.1)1
177	5.0 - 9.0% of mass 176	5.7 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD5002	M7646.D	10/5/98	0905
02	VBLK01	VBLK01	M7647.D	10/5/98	1043
03	5B	O55481	M7649.D	10/5/98	1223
04	6B	O55482	M7650.D	10/5/98	1306
05	6BDL	O55482DL	M7651.D	10/5/98	1352
06	5BRE	O55481RE	M7652.D	10/5/98	1438
07	4B	O55480	M7653.D	10/5/98	1522
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C.

METHOD BLANK RESULTS SUMMARY

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: ENVIR. &

Project No.: 9215NJ Site: Location: Group: 1A

Lab File ID: M7647.D Lab Sample ID: VBLK01

Date Analyzed: 10/5/98 Time Analyzed: 1043

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA 3

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	5B	O55481	M7649.D	1223
02	6B	O55482	M7650.D	1306
03	6BDL	O55482DL	M7651.D	1352
04	5BRE	O55481RE	M7652.D	1438
05	4B	O55480	M7653.D	1522
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COMMENTS:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M7647.D

Level: (low/med) MED Date Received:

% Moisture: not dec. 0 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	630	U
74-87-3	Chloromethane	630	U
75-01-4	Vinyl Chloride	630	U
74-83-9	Bromomethane	630	U
75-00-3	Chloroethane	630	U
107-02-8	Acrolein	630	U
75-69-4	Trichlorofluoromethane	630	U
75-35-4	1,1-Dichloroethene	630	U
67-64-1	Acetone	630	U
75-15-0	Carbon Disulfide	630	U
75-09-2	Methylene Chloride	630	U
156-60-5	trans-1,2-Dichloroethene	630	U
107-13-1	Acrylonitrile	630	U
75-34-4	1,1-Dichloroethane	630	U
590-20-7	2,2-Dichloropropane	630	U
156-60-5	cis-1,2-dichloroethene	630	U
74-97-5	Bromochloromethane	630	U
67-66-3	Chloroform	630	U
71-55-6	1,1,1-Trichloroethane	630	U
108-05-4	Vinyl Acetate	630	U
78-93-3	2-Butanone	630	U
56-23-5	Carbon Tetrachloride	630	U
563-58-6	1,1-Dichloropropene	630	U
71-43-2	Benzene	630	U
107-06-2	1,2-Dichloroethane	630	U
79-01-6	Trichloroethene	630	U
78-87-5	1,2-Dichloropropane	630	U
74-95-3	Dibromomethane	630	U
75-27-4	Bromodichloromethane	630	U
110-07-3	2-Chloroethyl Vinyl Ether	630	U
10061-01-5	cis-1,3-Dichloropropene	630	U
108-88-3	Toluene	630	U
10061-02-6	trans-1,3-Dichloropropene	630	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M7647.D

Level: (low/med) MED Date Received:

% Moisture: not dec. 0 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	630	U
108-10-1	4-Methyl-2-Pentanone	630	U
127-18-4	Tetrachloroethene	630	U
142-28-9	1,3-Dichloropropane	630	U
124-48-1	Dibromochloromethane	630	U
106-93-4	1,2-Dibromoethane	630	U
591-78-6	2-Hexanone	630	U
108-90-7	Chlorobenzene	630	U
630-20-6	1,1,1,2-Tetrachloroethane	630	U
100-41-4	Ethylbenzene	630	U
1330-20-7	m&p-xylenes	630	U
95-47-6	o-xylene	630	U
100-42-5	Styrene	630	U
75-25-2	Bromoform	630	U
98-82-8	isopropylbenzene	630	U
108-86-1	Bromobenzene	630	U
79-34-5	1,1,2,2-Tetrachloroethane	630	U
96-18-4	1,2,3-Trichloropropane	630	U
103-65-1	n-Propylbenzene	630	U
95-49-8	2-Chlorotoluene	630	U
106-43-4	4-Chlorotoluene	630	U
108-67-8	1,3,5-Trimethylbenzene	630	U
98-06-6	tert-Butylbenzene	630	U
95-63-6	1,2,4-Trimethylbenzene	630	U
135-98-8	sec-Butylbenzene	630	U
541-73-1	1,3-Dichlorobenzene	630	U
99-87-6	4-Isopropyltoluene	630	U
106-46-7	1,4-Dichlorobenzene	630	U
95-50-1	1,2-Dichlorobenzene	630	U
104-51-8	n-Butylbenzene	630	U
96-12-8	1,2-Dibromo-3-chloropropane	630	U
120-82-1	1,2,4-Trichlorobenzene	630	U
87-68-3	Hexachlorobutadiene	630	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M7647.D

Level: (low/med) MED Date Received:

% Moisture: not dec. 0 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	Naphthalene	630	U
87-61-6	1,2,3-Trichlorobenzene	630	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215 Site: Location: Group: 1A

Matrix: (soil/water) SOIL Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M7647.D

Level: (low/med) MED Date Received:

% Moisture: not dec. 0 Date Analyzed: 10/5/98

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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D.

CALIBRATION SUMMARY

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Instrument ID: VOA 3 Calibration Date(s): 9/19/98 9/19/98

Heated Purge: (Y/N) N Calibration Times: 0935 1315

GC Column: RTX624 ID: 0.53 (mm)

Lab File ID: RRF005 = M7459.D RRF20 = M7458.D
RRF50 = M7454.D RRF100 = M7457.D RRF200 = M7456.D

COMPOUND	RRF005	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
Dichlorodifluoromethane	0.456	0.464	0.467	0.482	0.507	0.475	4.2	
Chloromethane *	0.319	0.364	0.355	0.381	0.419	0.368	10.0	*
Vinyl Chloride	0.232	0.212	0.214	0.204	0.209	0.214	5.0	
Bromomethane	0.190	0.188	0.187	0.175	0.127	0.173	15.3	
Chloroethane	0.215	0.195	0.203	0.202	0.185	0.200	5.5	
Acrolein	0.049	0.057	0.043	0.041	0.046	0.047	13.3	
Trichlorofluoromethane	0.502	0.492	0.502	0.507	0.507	0.502	1.2	
1,1-Dichloroethene	0.547	0.485	0.471	0.435	0.495	0.487	8.4	
Acetone	0.374	0.304	0.220	0.200	0.217	0.263	28.2	
Carbon Disulfide	2.546	2.369	2.370	2.229	2.454	2.394	4.9	
Methylene Chloride	0.407	0.375	0.358	0.355	0.384	0.376	5.6	
trans-1,2-Dichloroethene	0.528	0.478	0.459	0.471	0.454	0.478	6.2	
Acrylonitrile	0.121	0.151	0.104	0.107	0.110	0.119	16.2	
1,1-Dichloroethane *	0.649	0.637	0.605	0.628	0.646	0.633	2.8	*
2,2-Dichloropropane	0.551	0.532	0.540	0.535	0.572	0.546	3.0	
cis-1,2-dichloroethene	0.484	0.478	0.459	0.444	0.478	0.469	3.6	
Bromochloromethane	0.297	0.304	0.278	0.285	0.293	0.291	3.5	
Chloroform	0.478	0.514	0.485	0.506	0.569	0.510	7.0	
1,1,1-Trichloroethane	0.576	0.552	0.532	0.542	0.563	0.553	3.1	
Vinyl Acetate	0.628	0.707	0.602	0.602	0.611	0.630	7.0	
2-Butanone	0.277	0.378	0.263	0.287	0.262	0.293	16.5	
Carbon Tetrachloride	0.301	0.348	0.396	0.410	0.442	0.379	14.6	
1,1-Dichloropropene	0.508	0.476	0.444	0.462	0.480	0.474	5.0	
Benzene	1.395	1.310	1.218	1.209	1.212	1.269	6.5	
1,2-Dichloroethane	0.525	0.513	0.453	0.477	0.477	0.489	6.0	
Trichloroethene	0.441	0.430	0.409	0.411	0.425	0.423	3.2	
1,2-Dichloropropane	0.381	0.354	0.328	0.345	0.334	0.348	6.0	
Dibromomethane	0.294	0.327	0.285	0.303	0.343	0.310	7.7	
Bromodichloromethane	0.663	0.653	0.614	0.639	0.643	0.642	2.9	
2-Chloroethyl Vinyl Ether	0.054	0.109	0.125	0.157	0.144	0.118	34.0	
cis-1,3-Dichloropropene	0.610	0.619	0.575	0.601	0.689	0.619	6.9	
Toluene	1.508	1.444	1.295	1.344	1.429	1.404	6.0	
trans-1,3-Dichloropropene	0.514	0.573	0.518	0.558	0.633	0.559	8.7	
1,1,2-Trichloroethane	0.338	0.362	0.296	0.322	0.357	0.335	8.1	
4-Methyl-2-Pentanone	0.623	0.840	0.567	0.608	0.641	0.656	16.2	
Tetrachloroethene	0.511	0.490	0.463	0.456	0.465	0.477	4.8	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Instrument ID: VOA 3 Calibration Date(s): 9/19/98 9/19/98

Heated Purge: (Y/N) N Calibration Times: 0935 1315

GC Column: RTX624 ID: 0.53 (mm)

Lab File ID: RRF005 = M7459.D RRF20 = M7458.D
RRF50 = M7454.D RRF100 = M7457.D RRF200 = M7456.D

COMPOUND	RRF005	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
1,3-Dichloropropane	0.793	0.738	0.646	0.663	0.689	0.706	8.5	
Dibromochloromethane	0.421	0.448	0.441	0.469	0.499	0.456	6.5	
1,2-Dibromoethane	0.437	0.473	0.398	0.415	0.434	0.431	6.5	
2-Hexanone	0.292	0.549	0.356	0.407	0.456	0.412	23.7	
Chlorobenzene *	1.195	1.111	1.009	1.059	1.068	1.088	6.4	*
1,1,1,2-Tetrachloroethane	0.081	0.102	0.093	0.094	0.098	0.094	8.4	
Ethylbenzene	2.030	1.893	1.790	1.815	1.715	1.849	6.5	
m&p-xylenes	0.688	0.659	0.591	0.620	0.619	0.635	6.0	
o-xylene	1.567	1.485	1.359	1.391	1.381	1.437	6.1	
Styrene	1.151	1.157	1.029	1.078	1.062	1.095	5.1	
Bromoform *	0.253	0.342	0.299	0.308	0.349	0.310	12.4	*
isopropylbenzene	3.515	3.216	3.033	3.234	3.186	3.237	5.4	
Bromobenzene	1.604	1.469	1.357	1.419	1.321	1.434	7.7	
1,1,2,2-Tetrachloroethane *	1.087	1.176	0.858	0.932	0.909	0.992	13.5	*
1,2,3-Trichloropropane	0.787	0.902	0.636	0.689	0.708	0.744	13.9	
n-Propylbenzene	0.966	0.922	0.863	0.933	0.911	0.919	4.1	
2-Chlorotoluene	0.852	0.843	0.771	0.862	0.806	0.827	4.6	
4-Chlorotoluene	1.010	0.853	0.797	0.816	0.815	0.858	10.2	
1,3,5-Trimethylbenzene	2.974	2.791	2.469	2.743	2.281	2.652	10.4	
tert-Butylbenzene	2.783	2.584	2.644	2.742	2.576	2.666	3.5	
1,2,4-Trimethylbenzene	3.027	2.828	2.500	2.743	2.228	2.665	11.6	
sec-Butylbenzene	3.763	3.456	3.128	3.313	3.137	3.359	7.8	
1,3-Dichlorobenzene	1.891	1.754	1.573	1.656	1.592	1.693	7.8	
4-Isopropyltoluene	3.435	3.298	2.900	3.233	2.864	3.146	8.0	
1,4-Dichlorobenzene	1.965	1.834	1.659	1.789	1.737	1.797	6.4	
1,2-Dichlorobenzene	1.762	1.686	1.501	1.582	1.551	1.616	6.5	
n-Butylbenzene	3.061	3.095	2.595	2.837	2.347	2.787	11.4	
1,2-Dibromo-3-chloropropane	0.153	0.151	0.112	0.151	0.159	0.145	13.0	
1,2,4-Trichlorobenzene	1.117	1.233	1.013	1.137	0.926	1.085	10.9	
Hexachlorobutadiene	0.638	0.694	0.526	0.651	0.616	0.625	10.0	
Naphthalene	1.953	2.540	1.868	2.228	1.618	2.041	17.3	
1,2,3-Trichlorobenzene	0.942	1.026	0.852	0.946	0.779	0.909	10.5	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Instrument ID: _____ Calibration Date(s): _____ _____

Heated Purge: (Y/N) __ Calibration Times: _____ _____

GC Column: _____ ID: _____ (mm)

Lab File ID:	RRF005 =		RRF20 =				
RRF50 =	RRF100 =		RRF200 =				
COMPOUND	RRF005	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dibromofluoromethane	0.403	0.395	0.377	0.388	0.369	0.386	3.5
1,2-Dichlorethane-d4	0.420	0.428	0.383	0.399	0.391	0.404	4.7
Toluene-d8	1.140	1.107	0.997	1.080	1.078	1.080	4.9
4-Bromofluorobenzene	0.518	0.507	0.434	0.481	0.512	0.490	7.0

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Instrument ID: VOA 3 Calibration Date: 10/5/98 Time: 0905

Lab File ID: M7646.D Init. Calib. Date(s): 9/19/98 9/19/98

Heated Purge: (Y/N) N Init. Calib. Times: 0935 1315

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.475	0.412		13.3	
Chloromethane	0.368	0.412	0.100	-12.0	
Vinyl Chloride	0.214	0.245		-14.5	20.0
Bromomethane	0.173	0.247		-42.8	
Chloroethane	0.200	0.237		-18.5	
Acrolein	0.047	0.052		-10.6	
Trichlorofluoromethane	0.502	0.519		-3.4	
1,1-Dichloroethene	0.487	0.527		-8.2	20.0
Acetone	0.263	0.238		9.5	
Carbon Disulfide	2.394	2.742		-14.5	
Methylene Chloride	0.376	0.428		-13.8	
trans-1,2-Dichloroethene	0.478	0.544		-13.8	
Acrylonitrile	0.119	0.132		-10.9	
1,1-Dichloroethane	0.633	0.730	0.100	-15.3	
2,2-Dichloropropane	0.546	0.582		-6.6	
cis-1,2-dichloroethene	0.469	0.533		-13.6	
Bromochloromethane	0.291	0.350		-20.3	
Chloroform	0.510	0.546		-7.1	20.0
1,1,1-Trichloroethane	0.553	0.577		-4.3	
Vinyl Acetate	0.630	0.696		-10.5	
2-Butanone	0.293	0.312		-6.5	
Carbon Tetrachloride	0.379	0.453		-19.5	
1,1-Dichloropropene	0.474	0.511		-7.8	
Benzene	1.269	1.500		-18.2	
1,2-Dichloroethane	0.489	0.507		-3.7	
Trichloroethene	0.423	0.482		-13.9	
1,2-Dichloropropane	0.348	0.411		-18.1	20.0
Dibromomethane	0.311	0.338		-8.7	
Bromodichloromethane	0.643	0.698		-8.6	
2-Chloroethyl Vinyl Ether	0.118	0.092		22.0	
cis-1,3-Dichloropropene	0.619	0.700		-13.1	
Toluene	1.404	1.537		-9.5	20.0
trans-1,3-Dichloropropene	0.559	0.601		-7.5	
1,1,2-Trichloroethane	0.335	0.355		-6.0	
4-Methyl-2-Pentanone	0.656	0.645		1.7	
Tetrachloroethene	0.477	0.506		-6.1	

All other compounds must meet a minimum RRF of 0.010.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Instrument ID: VOA 3 Calibration Date: 10/5/98 Time: 0905

Lab File ID: M7646.D Init. Calib. Date(s): 9/19/98 9/19/98

Heated Purge: (Y/N) N Init. Calib. Times: 0935 1315

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,3-Dichloropropane	0.706	0.727		-3.0	
Dibromochloromethane	0.456	0.471	0.300	-3.3	
1,2-Dibromoethane	0.431	0.432		-0.2	
2-Hexanone	0.412	0.440		-6.8	
Chlorobenzene	1.088	1.135		-4.3	
1,1,1,2-Tetrachloroethane	0.094	0.103		-9.6	
Ethylbenzene	1.849	1.939		-4.9	20.0
m&p-xylenes	0.635	0.688	0.100	-8.3	
o-xylene	1.437	1.513		-5.3	
Styrene	1.095	1.189		-8.6	
Bromoform	0.310	0.328	0.300	-5.8	
isopropylbenzene	3.237	3.410		-5.3	
Bromobenzene	1.434	1.557		-8.6	
1,1,2,2-Tetrachloroethane	0.992	1.057		-6.6	
1,2,3-Trichloropropane	0.744	0.772		-3.8	
n-Propylbenzene	0.919	0.988		-7.5	
2-Chlorotoluene	0.827	0.855		-3.4	
4-Chlorotoluene	0.858	0.946		-10.3	
1,3,5-Trimethylbenzene	2.652	2.845		-7.3	
tert-Butylbenzene	2.666	2.994		-12.3	
1,2,4-Trimethylbenzene	2.665	2.932		-10.0	
sec-Butylbenzene	3.359	3.528		-5.0	
1,3-Dichlorobenzene	1.693	1.804		-6.6	
4-Isopropyltoluene	3.146	3.263		-3.7	
1,4-Dichlorobenzene	1.797	1.855		-3.2	
1,2-Dichlorobenzene	1.616	1.733		-7.2	
n-Butylbenzene	2.787	3.071		-10.2	
1,2-Dibromo-3-chloropropane	0.145	0.128		11.7	
1,2,4-Trichlorobenzene	1.085	1.214		-11.9	
Hexachlorobutadiene	0.625	0.589		5.8	
Naphthalene	2.042	2.454		-20.2	
1,2,3-Trichlorobenzene	0.909	1.027		-13.0	

All other compounds must meet a minimum RRF of 0.010.

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Instrument ID: _____ Calibration Date: _____ Time: _____

Lab File ID: _____ Init. Calib. Date(s): _____ _____

Heated Purge: (Y/N) _____ Init. Calib. Times: _____ _____

GC Column: _____ ID: _____ (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.386	0.404		-4.7	
1,2-Dichlorethane-d4	0.404	0.415		-2.7	
Toluene-d8	1.080	1.168		-8.1	
4-Bromofluorobenzene	0.490	0.493		-0.6	

All other compounds must meet a minimum RRF of 0.010.

E.

SURROGATE COMPOUND RECOVERY RESULTS SUMMARY

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Level: (low/med) MED

	SAMPLE NO.	SMC1 (DBFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	VBLK01	100	97	103	105	
02	5B	122 *	116	126 *	139 *	3
03	6B	111	109	122 *	127 *	2
04	6BDL	130 D	129 D	155 D	160 D	4
05	5BRE	117	114	122 *	130 *	2
06	4B	111	109	117	117	
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	QC LIMITS
SMC1 (DBFM) = Dibromofluoromethane	(80-120)
SMC2 (DCE) = 1,2-Dichlorethane-d4	(80-120)
SMC3 (TOL) = Toluene-d8	(81-117)
SMC4 (BFB) = 4-Bromofluorobenzene	(74-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

F.

MS/ MSD RESULTS SUMMARY

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH Contract: ARECON LTD.

Project No.: 9110NJ Site: Location: APPLEGATE FARM Group: 4334-01

Matrix Spike - Sample No.: O4334-01 Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	9600	0	6300	66	(59-172)
Benzene	9600	0	7900	82	(66-142)
Trichloroethene	9600	0	6700	70	(62-137)
Toluene	9600	0	8000	83	(59-139)
Chlorobenzene	9600	0	7600	79	(60-133)

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MS % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	9600	5800	60	8	22	(59-172)
Benzene	9600	7900	82	0	21	(66-142)
Trichloroethene	9600	6700	70	0	24	(62-137)
Toluene	9600	8200	85	2	21	(59-139)
Chlorobenzene	9600	7600	79	0	21	(60-133)

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Comments:

G.

INTERNAL STANDARD RESULTS SUMMARY

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ENVIR. & SAFETY COMPLIANCE COR

Project No.: 9215NJ Site: Location: Group: 1A

Lab File ID (Standard): M7646.D Date Analyzed: 10/5/98

Instrument ID: VOA 3 Time Analyzed: 0905

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1 (FB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	2127674	14.70	1972838	21.11	991405	25.86
	UPPER LIMIT	4255348	15.20	3945676	21.61	1982810	26.36
	LOWER LIMIT	1063837	14.20	986419	20.61	495703	25.36
	SAMPLE NO.						
01	VBLK01	2257175	14.70	2074687	21.12	1084043	25.87
02	5B	1855218	14.69	1660958	21.12	943620	25.87
03	6B	1856793	14.69	1665222	21.12	895232	25.88
04	6BDL	2058856	14.71	1876643	21.13	980903	25.88
05	5BRE	2125416	14.71	1851371	21.13	980588	25.87
06	4B	2181565	14.71	1965848	21.12	1029595	25.89
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (FB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

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

H.

CHROMATOGRAMS

Quantitation Report

JJ 10-6-98

Data File : D:\HPCHEM\3\DATA\V31005\M7653.D
Acq Time : 5 Oct 98 3:22 pm
Sample : 9215NJ-55480
Misc : 5ML 100 UL MEOH
Quant Time: Oct 6 10:07 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	14.71	96	2181565	50.00 ug/L	0.01
42) Chlorobenzene-d5	21.12	117	1965848	50.00 ug/L	0.02
56) 1,4-dichlorobenzene-d4	25.89	152	1029595	50.00 ug/L	0.02
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	12.98	113	933133	55.34 ug/L	110.68%
29) 1,2-Dichlorethane-d4	14.04	65	963354	54.62 ug/L	109.24%
37) Toluene-d8	17.99	98	2749962	58.35 ug/L	116.69%
41) 4-Bromofluorobenzene	23.60	95	1247680	58.34 ug/L	116.68%
Target Compounds					Qvalue
61) n-propylbenzene	23.87	120	176431	9.32 ug/L	98
67)• sec-butylbenzene	25.22	105	449140	6.49 ug/L	95

000082

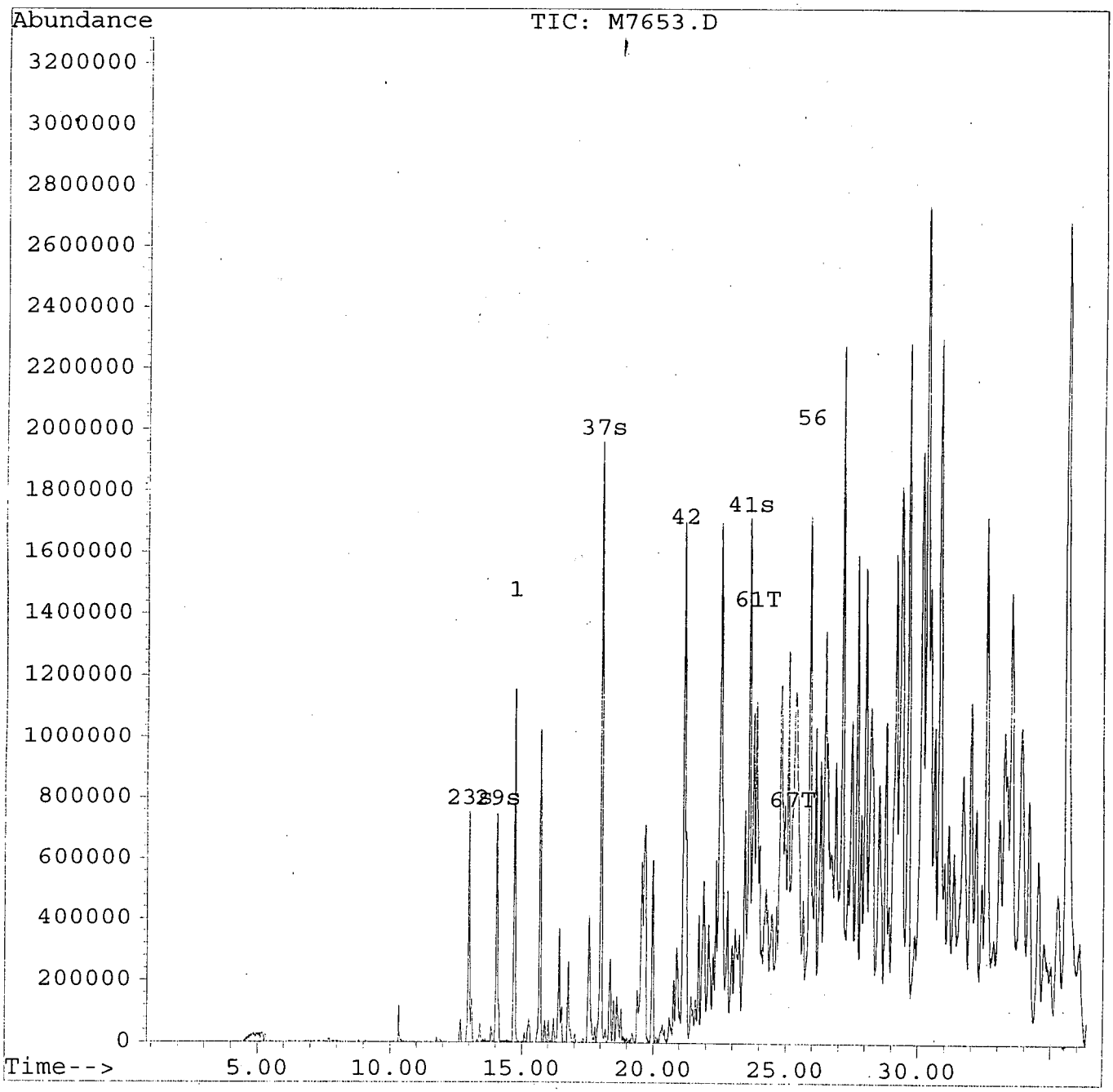
(#) = qualifier out of range (m) = manual integration

Quantitation Report

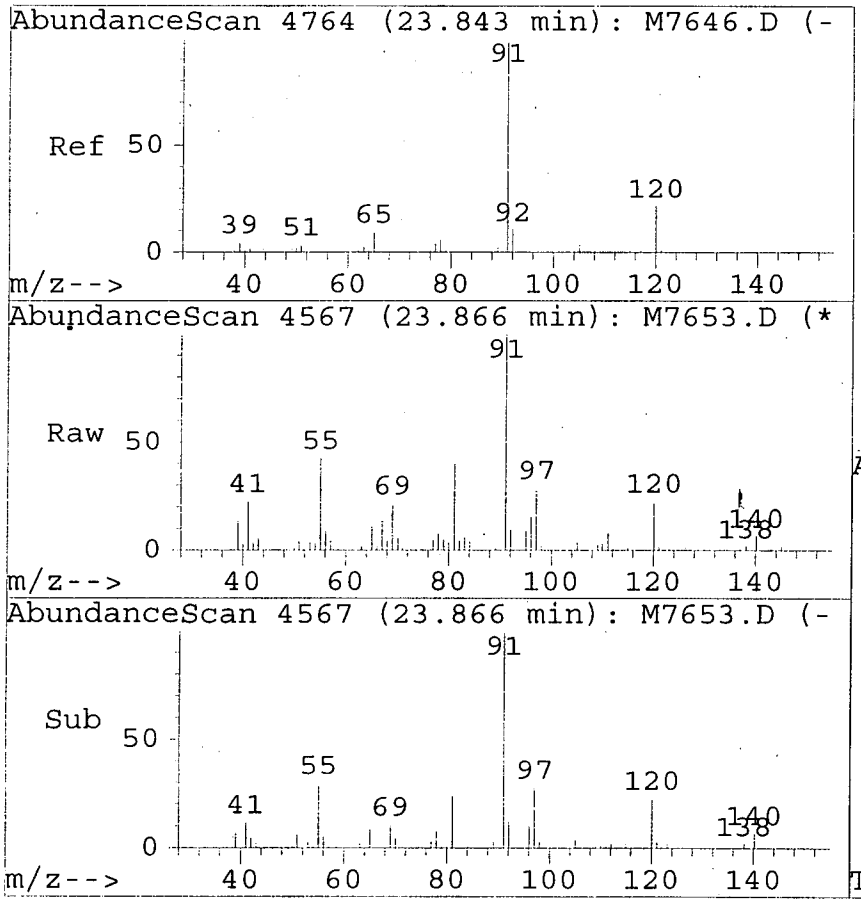
Data File : D:\HPCHEM\3\DATA\V31005\M7653.D
Acq Time : 5 Oct 98 3:22 pm
Sample : 9215NJ-55480
Misc : 5ML 100 UL MEOH
Quant Time: Oct 6 10:07 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration



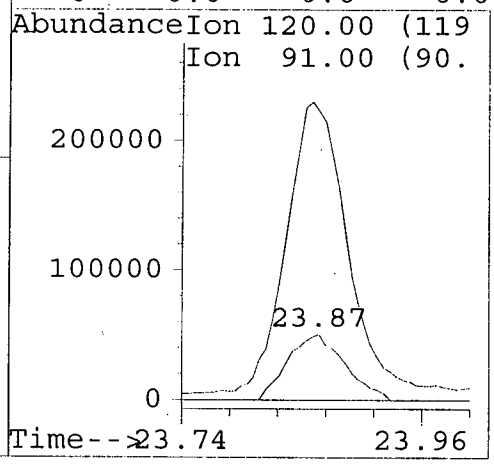
000083

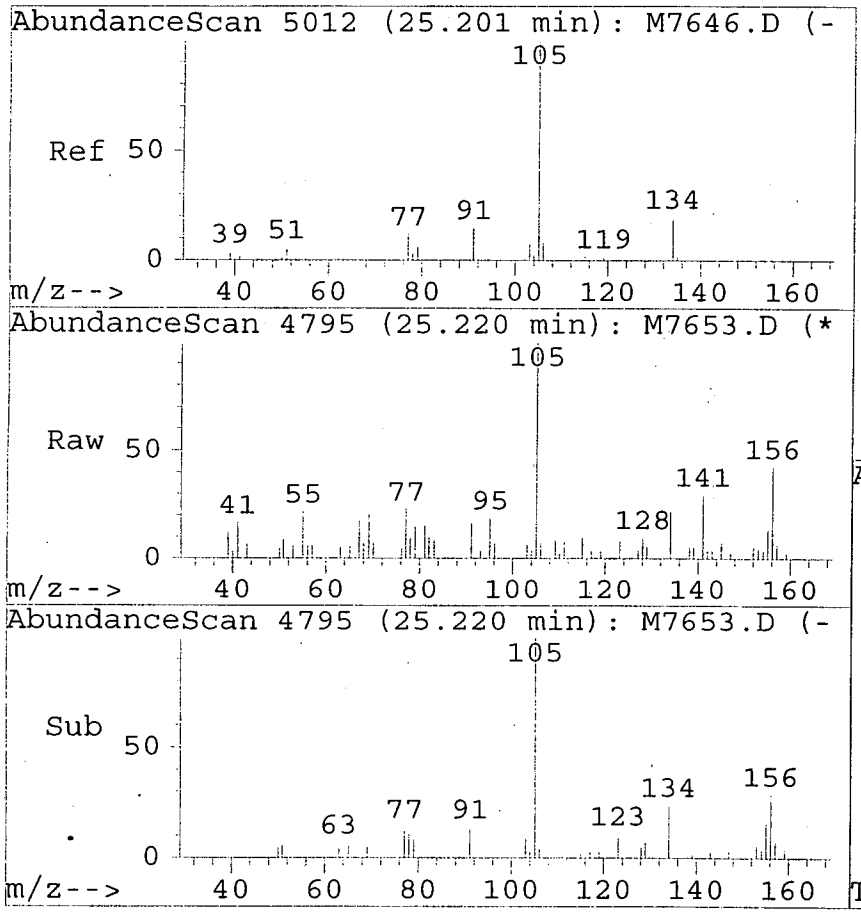


#61
n-propylbenzene
Concen: 9.32 ug/L
RT: 23.87 min Scan# 4567
Delta R.T. 0.02 min
Lab File: M7653.D
Acq: 5 Oct 98 3:22 pm

Tgt Ion:120 Resp: 176431

Ion	Ratio	Lower	Upper
120	100		
91	442.1	313.8	582.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

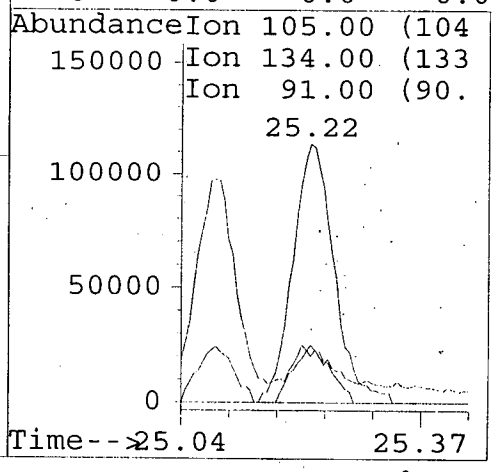




#67
sec-butylbenzene
Concen: 6.49 ug/L
RT: 25.22 min Scan# 4795
Delta R.T. 0.02 min
Lab File: M7653.D
Acq: 5 Oct 98 3:22 pm

Tgt Ion:105 Resp: 449140

Ion	Ratio	Lower	Upper
105	100		
134	22.1	14.0	26.0
91	17.7	10.4	19.4
0	0.0	0.0	0.0



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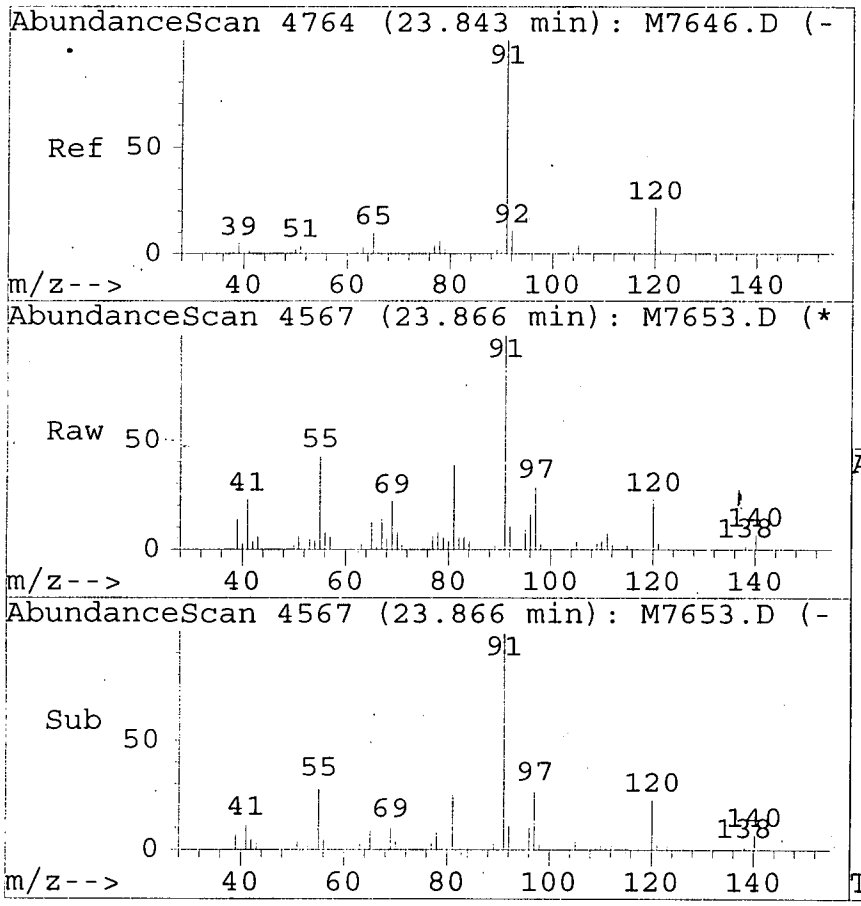
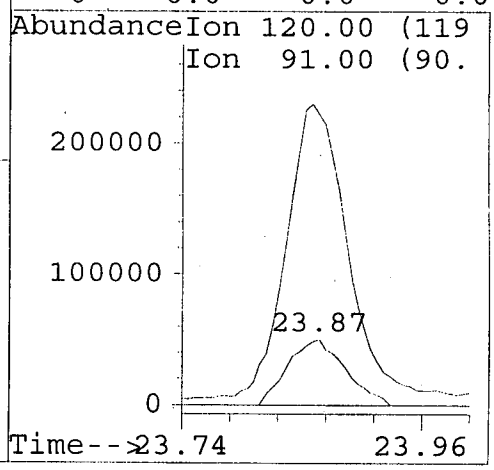
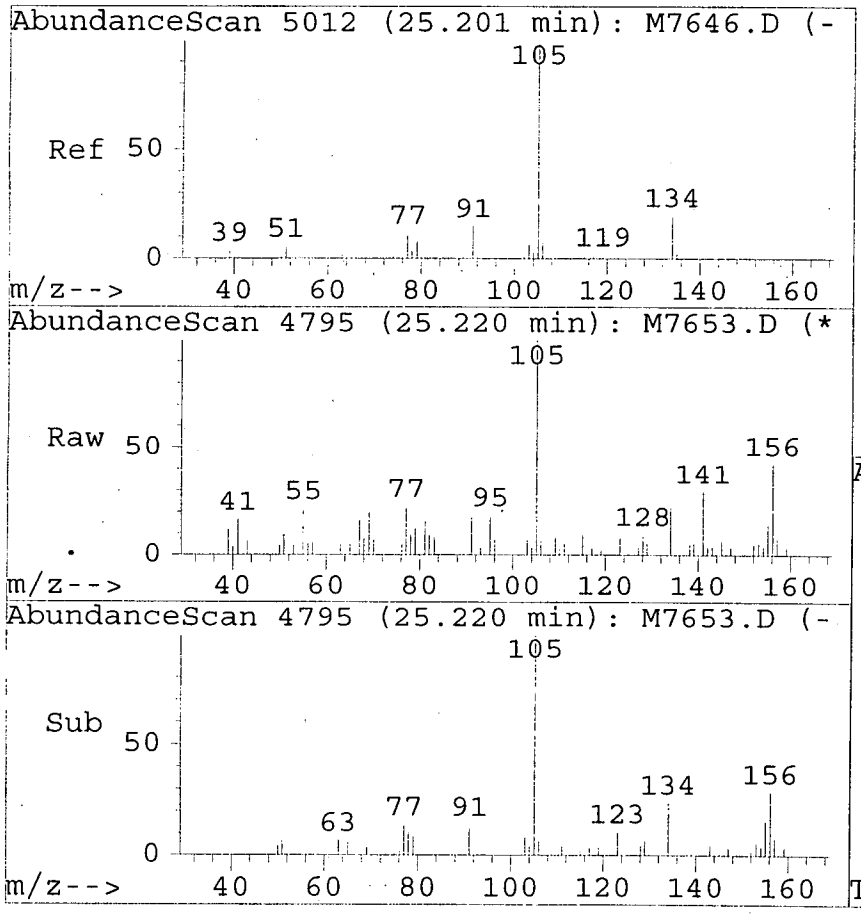


#61
n-propylbenzene
Concen: 9.32 ug/L
RT: 23.87 min Scan# 4567
Delta R.T. 0.02 min
Lab File: M7653.D
Acq: 5 Oct 98 3:22 pm

Tgt Ion:120 Resp: 176431

Ion	Ratio	Lower	Upper
120	100		
91	442.1	313.8	582.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

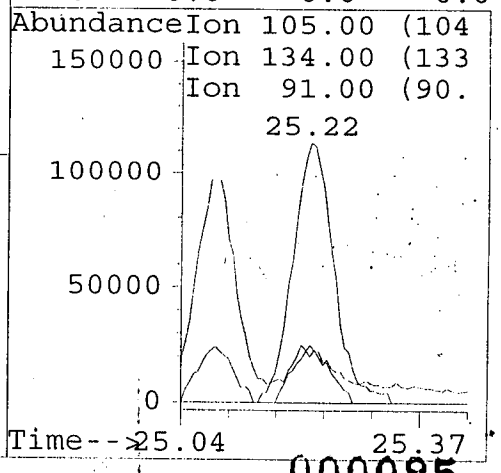




#67
sec-butylbenzene
Concen: 6.49 ug/L
RT: 25.22 min Scan# 4795
Delta R.T. 0.02 min
Lab File: M7653.D
Acq: 5 Oct 98 3:22 pm

Tgt Ion:105 Resp: 449140

Ion	Ratio	Lower	Upper
105	100		
134	22.1	14.0	26.0
91	17.7	10.4	19.4
0	0.0	0.0	0.0



000085

Quantitation Report

JJ 10-6-98

Data File : D:\HPCHEM\3\DATA\V31005\M7649.D
Acq Time : 5 Oct 98 12:23 pm
Sample : 9215NJ-55481
Misc : 5ML 100 UL MEOH
Quant Time: Oct 6 9:25 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	14.69	96	1855218	50.00 ug/L	-0.01
42) Chlorobenzene-d5	21.12	117	1660958	50.00 ug/L	0.00
56) 1,4-dichlorobenzene-d4	25.87	152	943620	50.00 ug/L	0.00
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	12.97	113	876168	61.10 ug/L	122.20%
29) 1,2-Dichlorethane-d4	14.02	65	866756	57.79 ug/L	115.57%
37) Toluene-d8	17.98	98	2515042	62.75 ug/L	125.50%
41) 4-Bromofluorobenzene	23.60	95	1261201	69.35 ug/L	138.70%
Target Compounds					Qvalue
49) chlorobenzene	21.20	112	168205	4.65 ug/L	97
57) isopropylbenzene	23.05	105	609665	9.98 ug/L	96
61) n-propylbenzene	23.85	120	375702	21.67 ug/L	93
67) sec-butylbenzene	25.21	105	947967	14.95 ug/L	96
70) 1,4-dichlorobenzene	25.94	146	215820	6.37 ug/L	90

000086

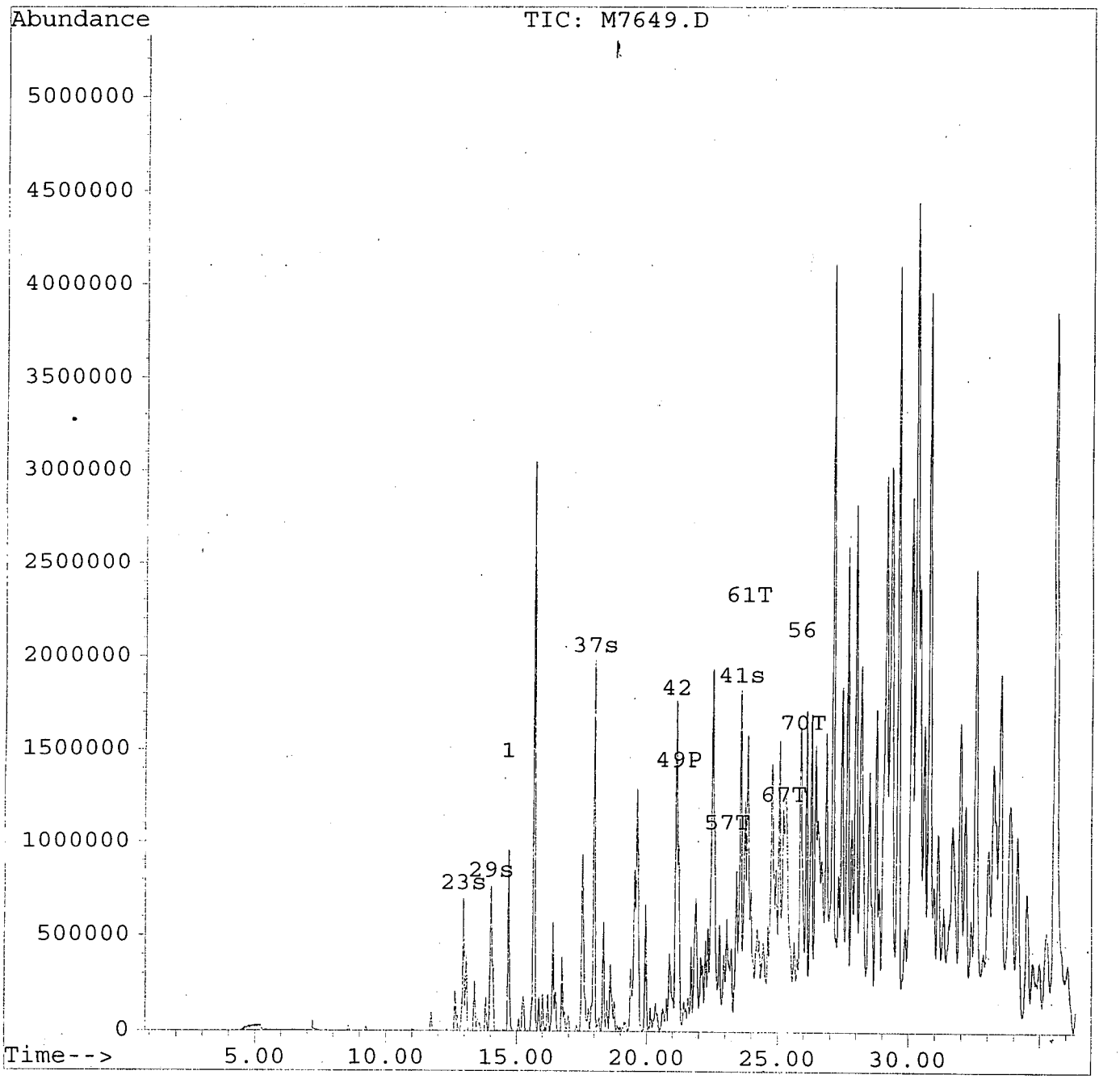
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\3\DATA\V31005\M7649.D
Acq Time : 5 Oct 98 12:23 pm
Sample : 9215NJ-55481
Misc : 5ML 100 UL MEOH
Quant Time: Oct 6 9:25 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration



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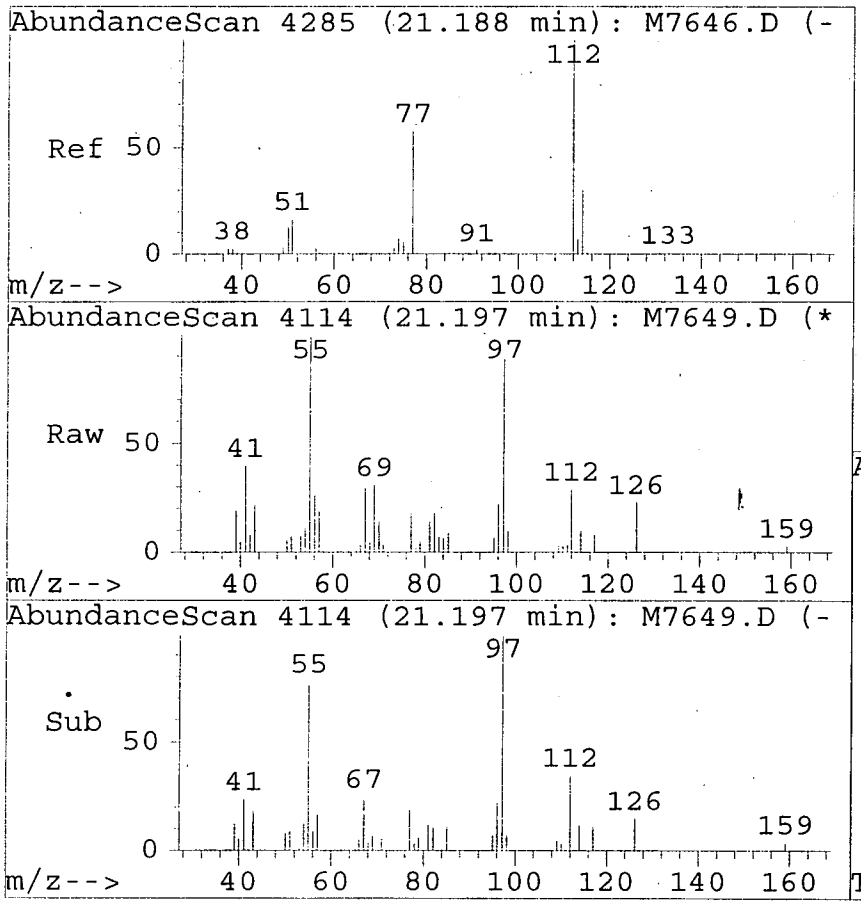
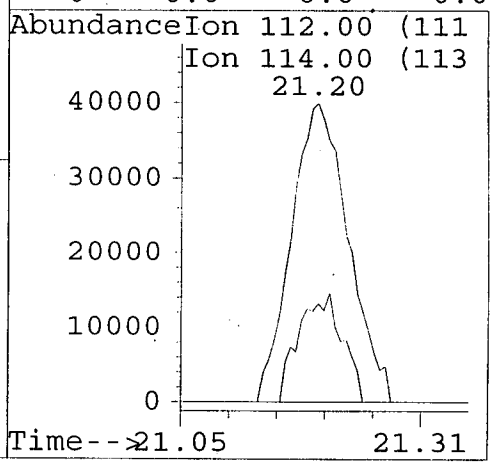
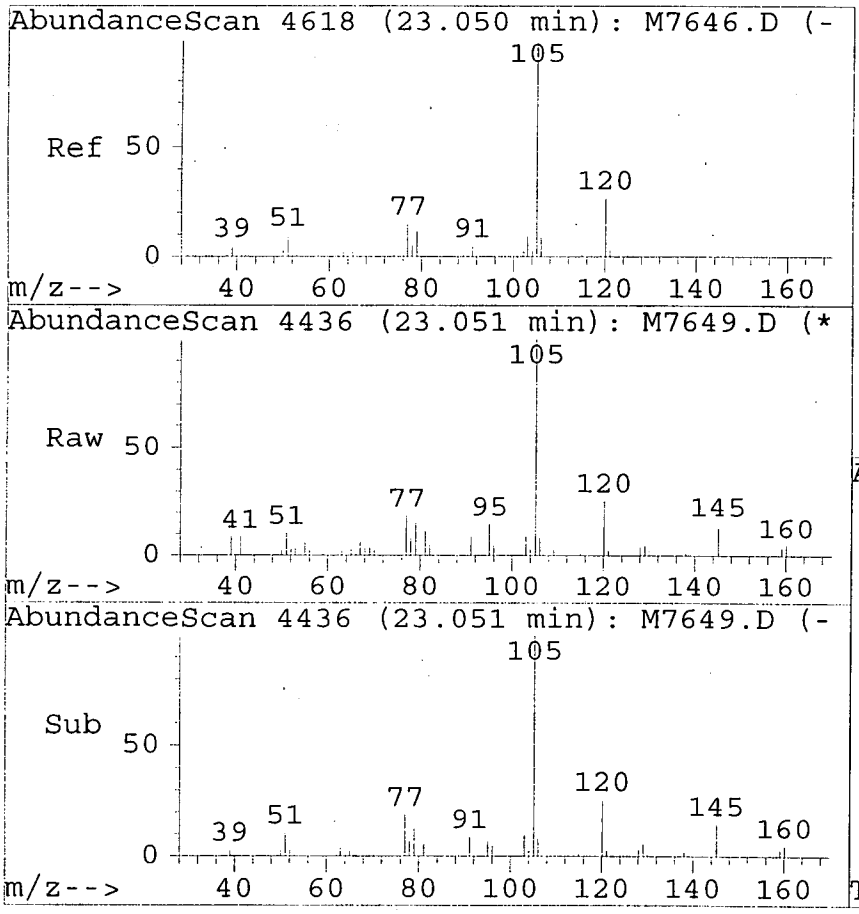


#49
chlorobenzene
Concen: 4.65 ug/L
RT: 21.20 min Scan# 4114
Delta R.T. 0.01 min
Lab File: M7649.D
Acq: 5 Oct 98 12:23 pm

Tgt Ion:112 Resp: 168205

Ion	Ratio	Lower	Upper
112	100		
114	33.1	21.8	40.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

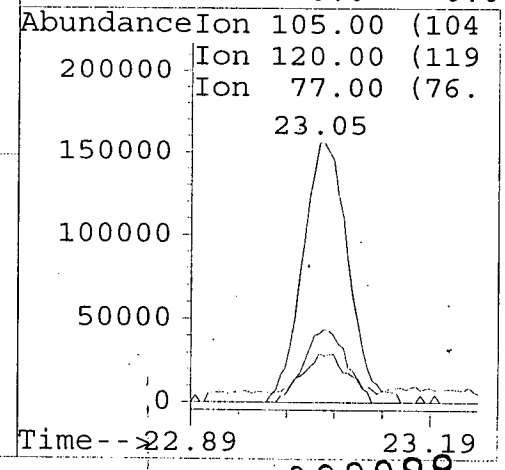




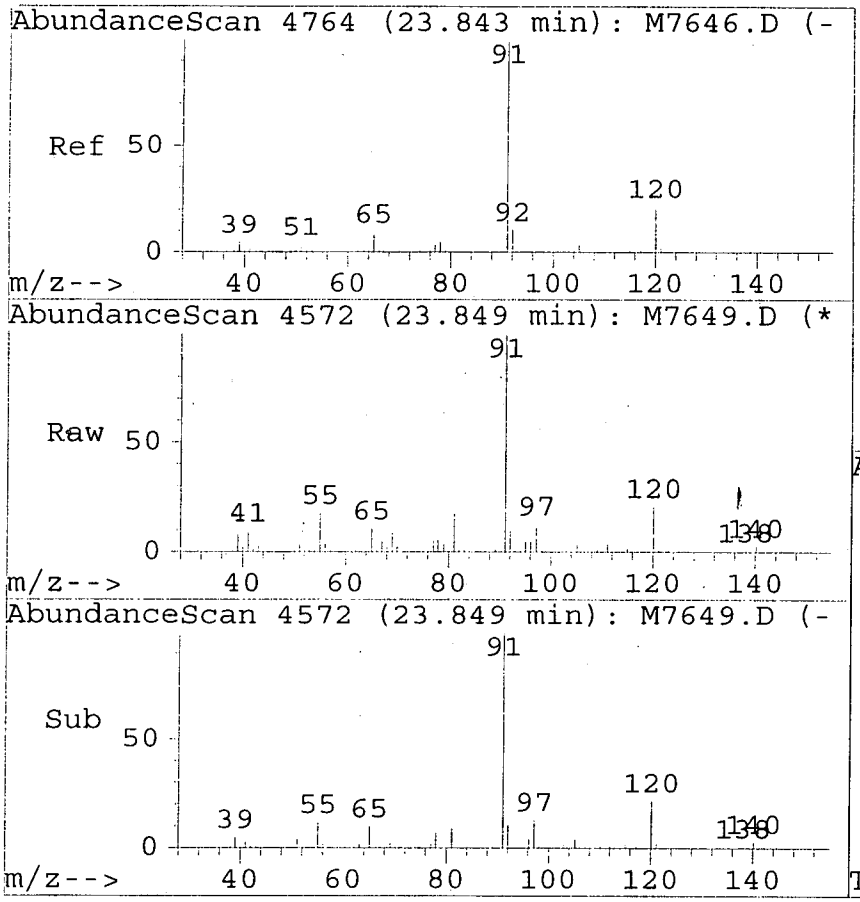
#57
isopropylbenzene
Concen: 9.98 ug/L
RT: 23.05 min Scan# 4436
Delta R.T. 0.00 min
Lab File: M7649.D
Acq: 5 Oct 98 12:23 pm

Tgt Ion:105 Resp: 609665

Ion	Ratio	Lower	Upper
105	100		
120	26.5	19.0	35.2
77	18.9	10.8	20.1
0	0.0	0.0	0.0



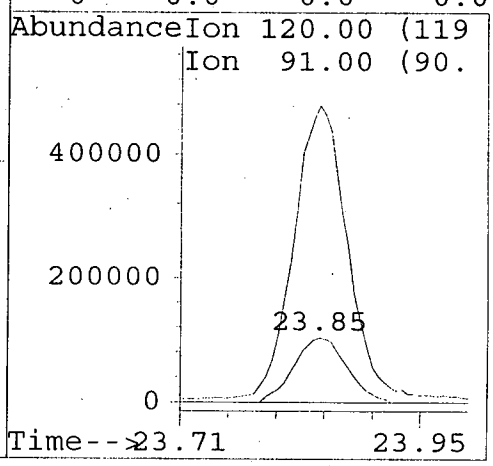
000088

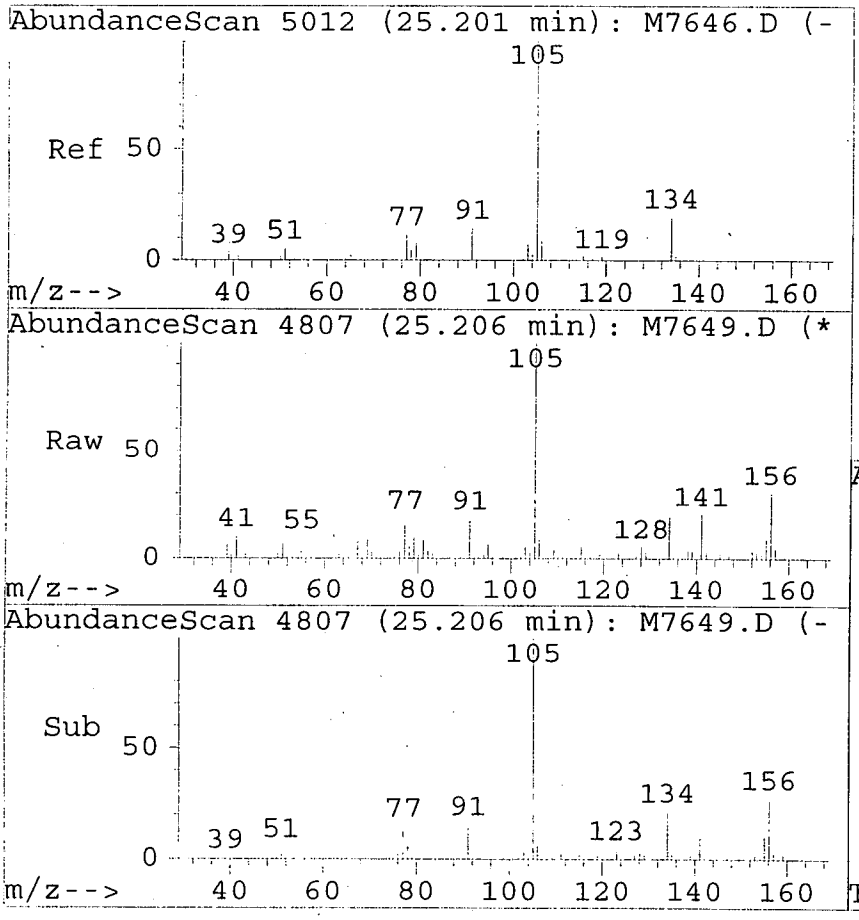


#61
n-propylbenzene
Concen: 21.67 ug/L
RT: 23.85 min Scan# 4572
Delta R.T. 0.01 min
Lab File: M7649.D
Acq: 5 Oct 98 12:23 pm

Tgt Ion:120 Resp: 375702

Ion	Ratio	Lower	Upper
120	100		
91	466.2	313.8	582.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

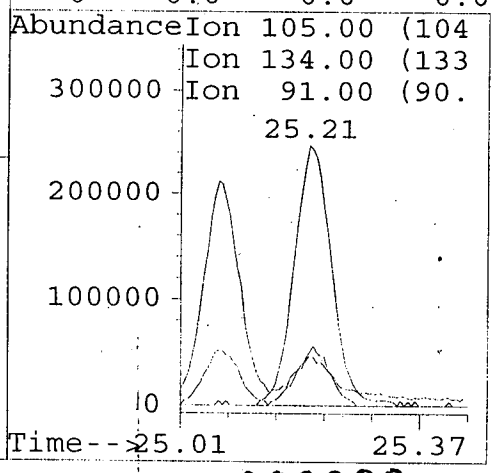




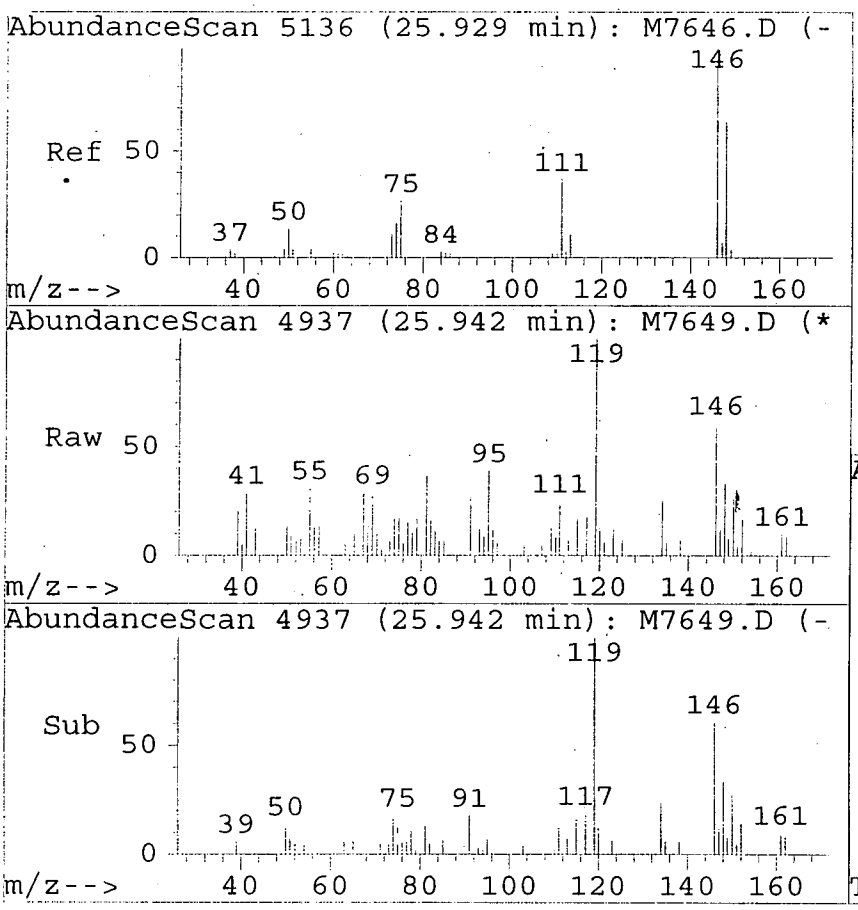
#67
sec-butylbenzene
Concen: 14.95 ug/L
RT: 25.21 min Scan# 4807
Delta R.T. 0.00 min
Lab File: M7649.D
Acq: 5 Oct 98 12:23 pm

Tgt Ion:105 Resp: 947967

Ion	Ratio	Lower	Upper
105	100		
134	20.3	14.0	26.0
91	18.9	10.4	19.4
0	0.0	0.0	0.0



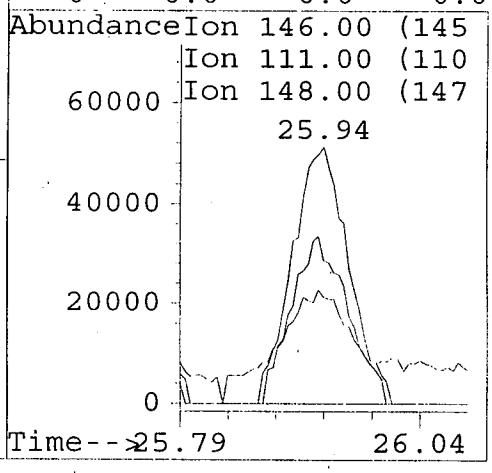
000089



#70
1,4-dichlorobenzene
Concen: 6.37 ug/L
RT: 25.94 min Scan# 4937
Delta R.T. 0.01 min
Lab File: M7649.D
Acq: 5 Oct 98 12:23 pm

Tgt Ion:146 Resp: 215820

Ion	Ratio	Lower	Upper
146	100		
111	41.5	25.6	47.6
148	55.6	44.7	82.9
0	0.0	0.0	0.0



000090

Quantitation Report

JJ 10-6-98

Data File : D:\HPCHEM\3\DATA\V31005\M7652.D
Acq Time : 5 Oct 98 2:38 pm
Sample : 9215NJ-55481
Misc : 5ML 100 UL MEOH
Quant Time: Oct 6 9:27 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	14.71	96	2125416	50.00 ug/L	0.00
42) Chlorobenzene-d5	21.13	117	1851371	50.00 ug/L	0.02
56) 1,4-dichlorobenzene-d4	25.87	152	980588	50.00 ug/L	0.00
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	12.99	113	962619	58.60 ug/L	117.19%
29) 1,2-Dichlorethane-d4	14.04	65	981341	57.11 ug/L	114.22%
37) Toluene-d8	17.99	98	2792337	60.81 ug/L	121.62%
41) 4-Bromofluorobenzene	23.60	95	1358221	65.19 ug/L	130.38%
Target Compounds					Qvalue
49) chlorobenzene	21.20	112	185969	4.61 ug/L	95
57) isopropylbenzene	23.07	105	636276	10.02 ug/L	98
61) n-propylbenzene	23.86	120	389013	21.59 ug/L	98
65) tert-butylbenzene	24.81	119	126912	2.43 ug/L	92
67) sec-butylbenzene	25.21	105	983044	14.92 ug/L	98
68) 1,3-dichlorobenzene	25.73	146	116247	3.50 ug/L	87

000091

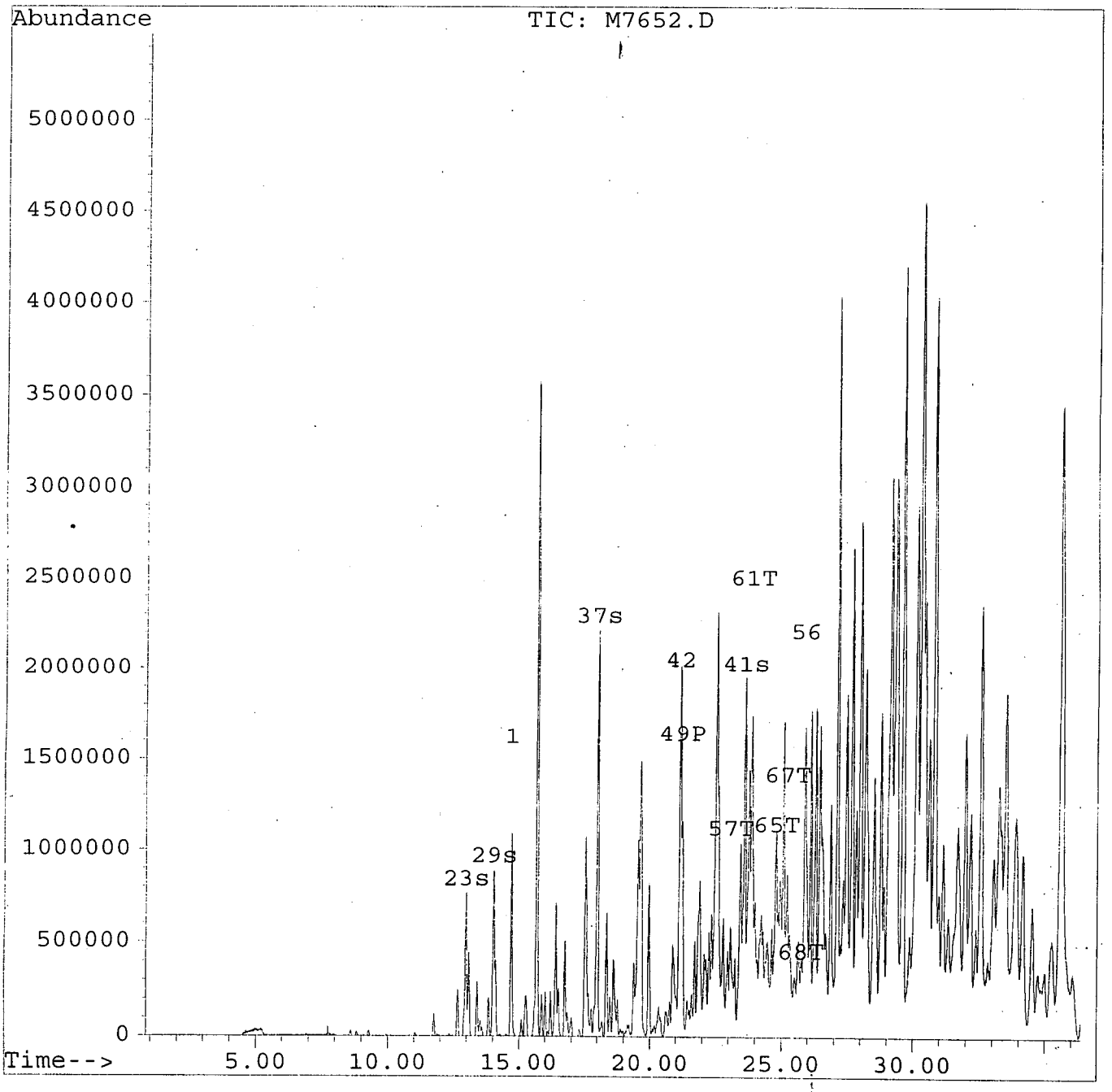
(#) = qualifier out of range (m) = manual integration

Quantitation Report

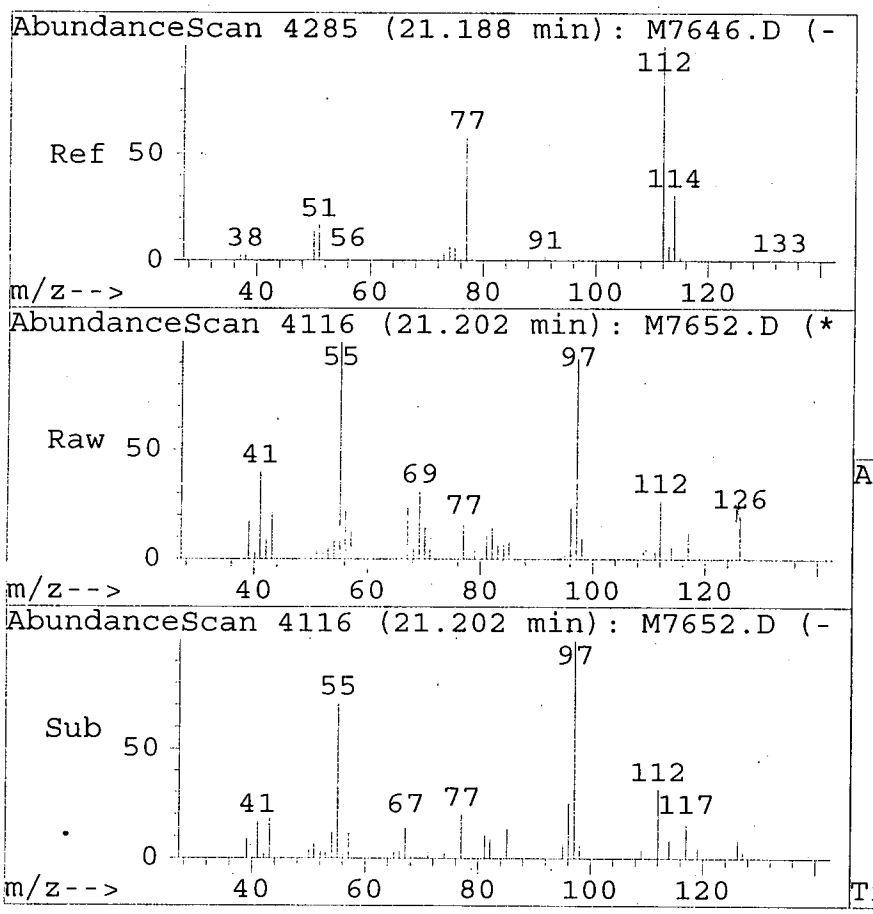
Data File : D:\HPCHEM\3\DATA\V31005\M7652.D
Acq Time : 5 Oct 98 2:38 pm
Sample : 9215NJ-55481
Misc : 5ML 100 UL MEOH
Quant Time: Oct 6 9:27 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration



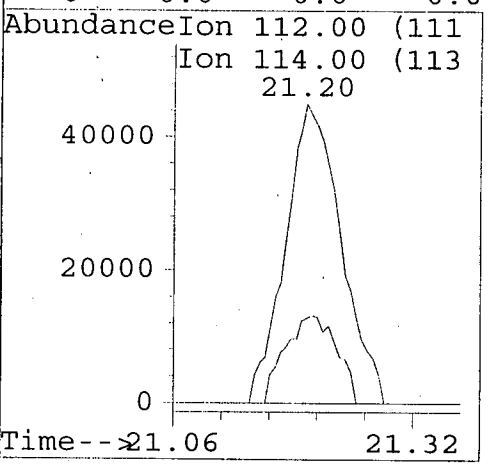
000092

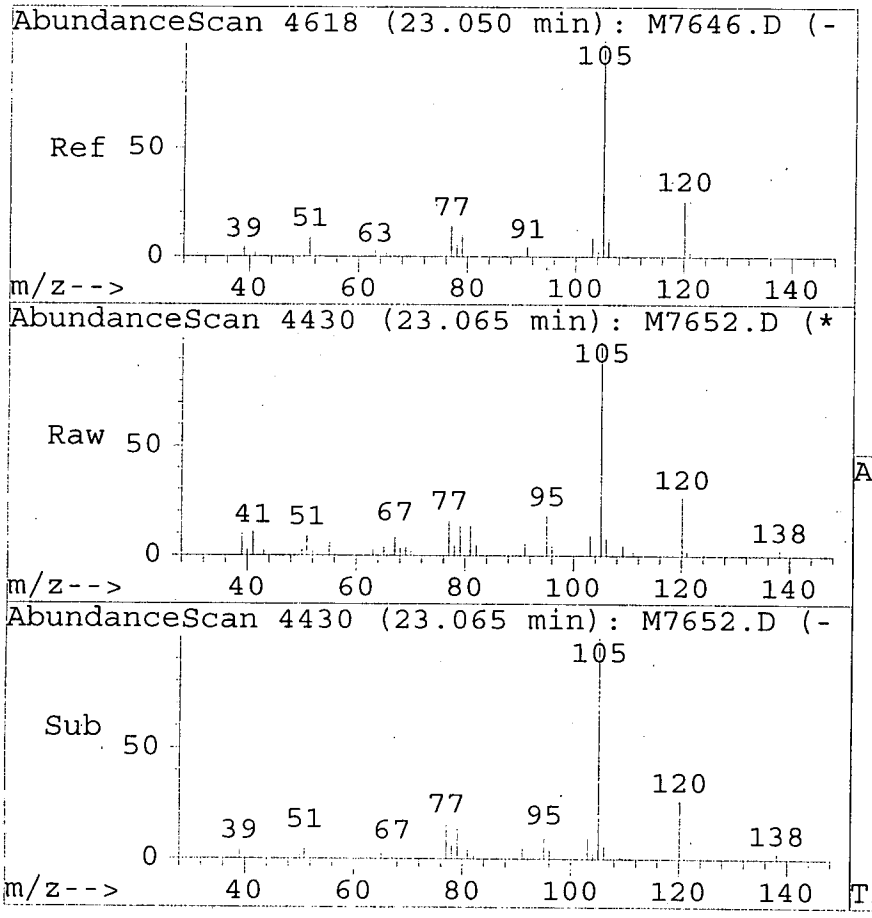


#49
chlorobenzene
Concen: 4.61 ug/L
RT: 21.20 min Scan# 4116
Delta R.T. 0.01 min
Lab File: M7652.D
Acq: 5 Oct 98 2:38 pm

Tgt Ion:112 Resp: 185969

Ion	Ratio	Lower	Upper
112	100		
114	28.2	21.8	40.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

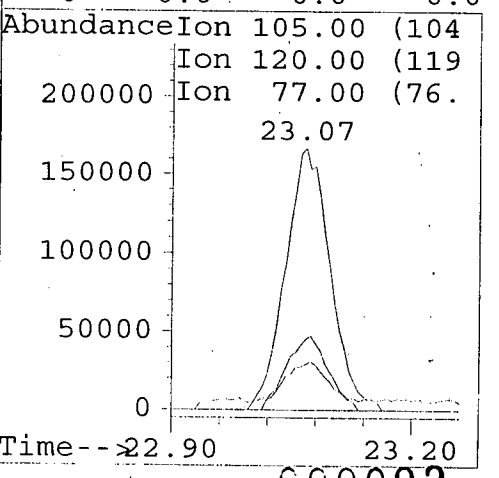




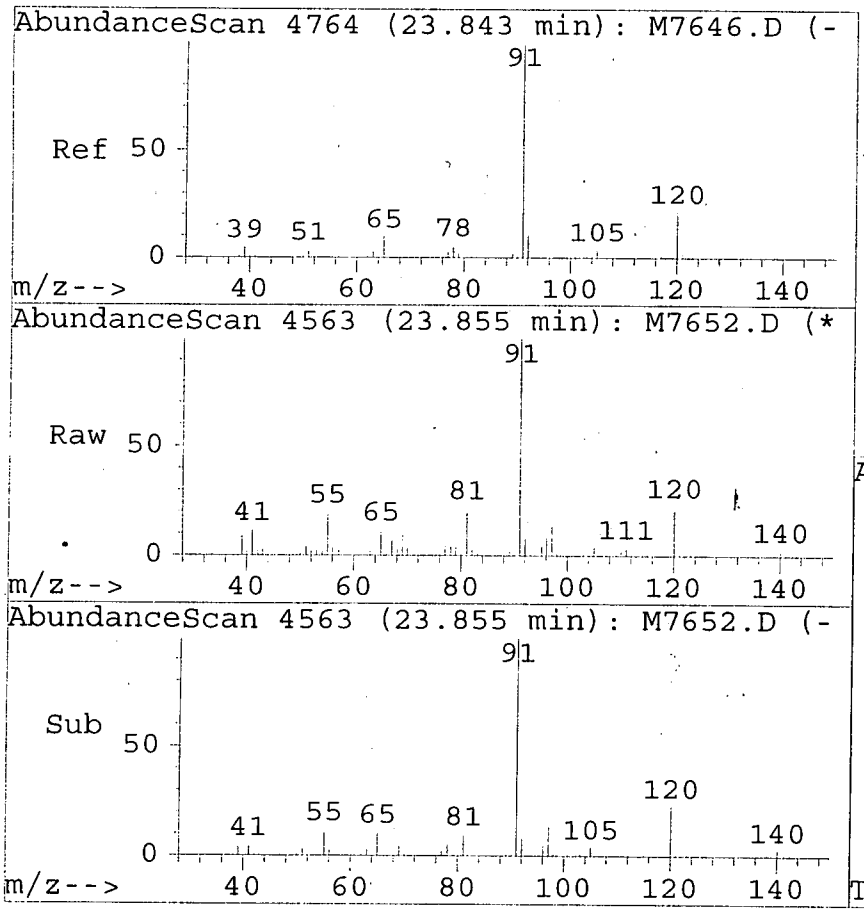
#57
isopropylbenzene
Concen: 10.02 ug/L
RT: 23.07 min Scan# 4430
Delta R.T. 0.02 min
Lab File: M7652.D
Acq: 5 Oct 98 2:38 pm

Tgt Ion:105 Resp: 636276

Ion	Ratio	Lower	Upper
105	100		
120	27.1	19.0	35.2
77	17.3	10.8	20.1
0	0.0	0.0	0.0



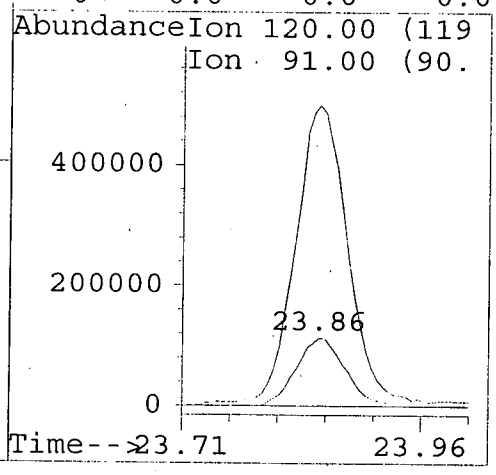
000093

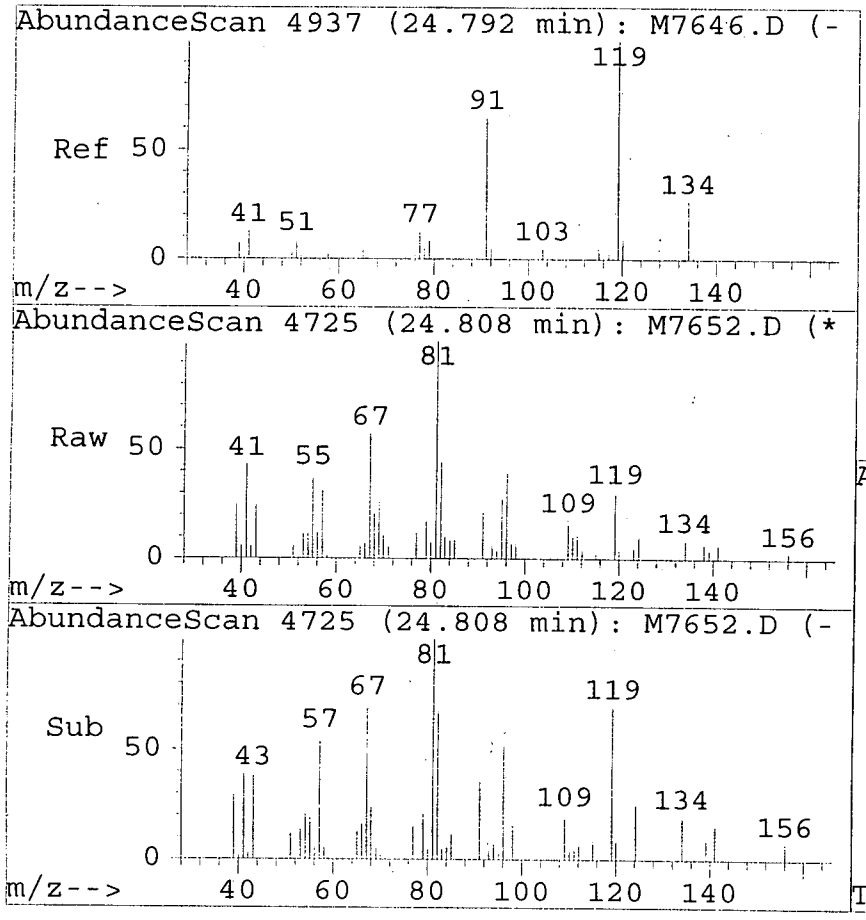


#61
n-propylbenzene
Concen: 21.59 ug/L
RT: 23.86 min Scan# 4563
Delta R.T. 0.01 min
Lab File: M7652.D
Acq: 5 Oct 98 2:38 pm

Tgt Ion:120 Resp: 389013

Ion	Ratio	Lower	Upper
120	100		
91	442.7	313.8	582.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

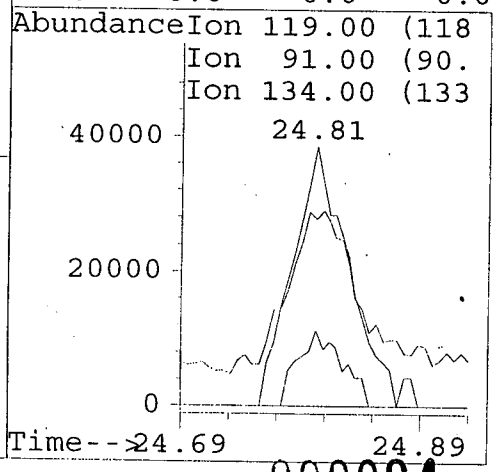




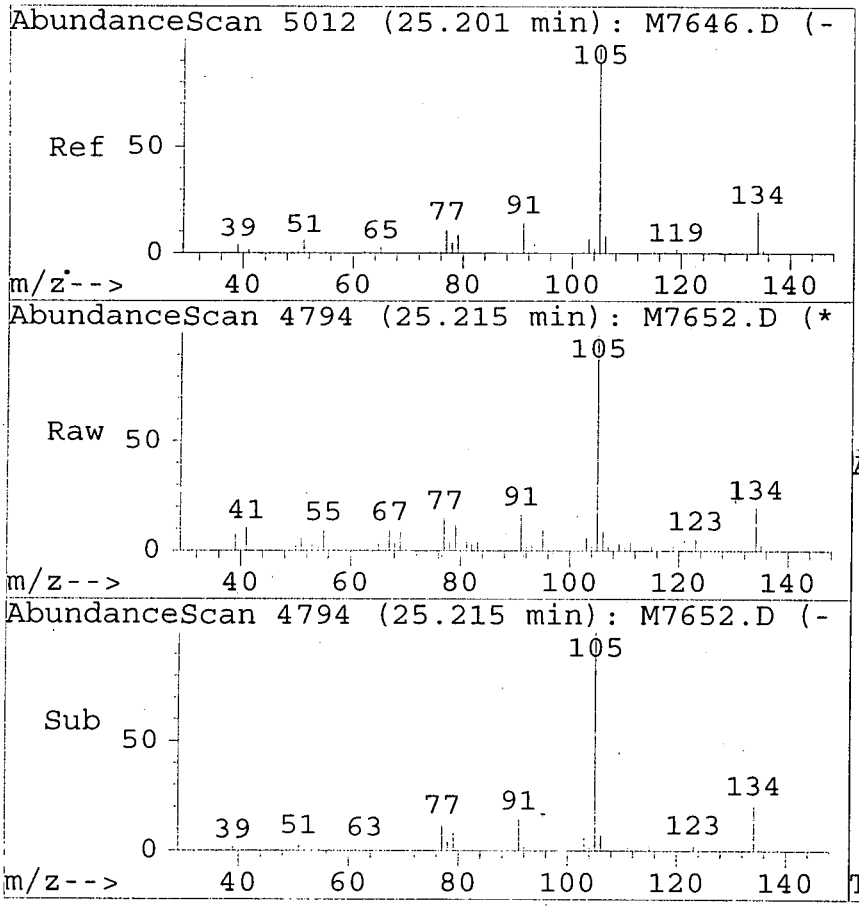
#65
tert-butylbenzene
Concen: 2.43 ug/L
RT: 24.81 min Scan# 4725
Delta R.T. 0.02 min
Lab File: M7652.D
Acq: 5 Oct 98 2:38 pm

Tgt Ion:119 Resp: 126912

Ion	Ratio	Lower	Upper
119	100		
91	71.9	45.3	84.1
134	29.1	18.9	35.1
0	0.0	0.0	0.0



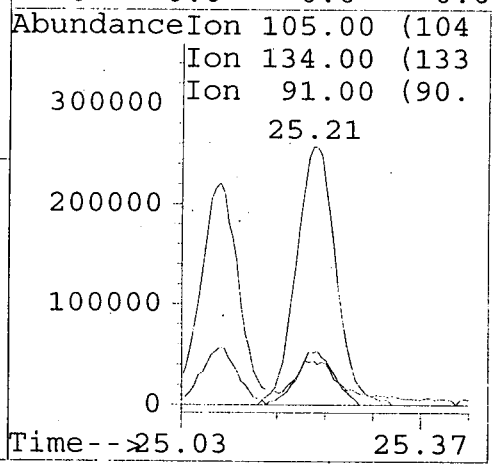
000094

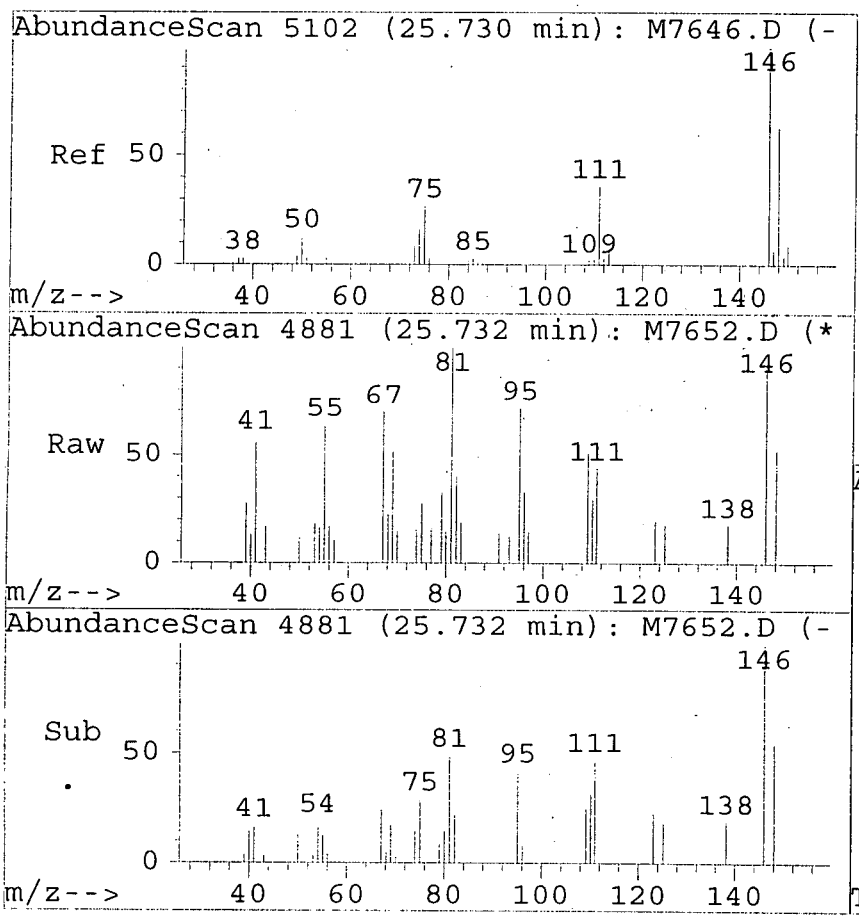


#67
sec-butylbenzene
Concen: 14.92 ug/L
RT: 25.21 min Scan# 4794
Delta R.T. 0.01 min
Lab File: M7652.D
Acq: 5 Oct 98 2:38 pm

Tgt Ion:105 Resp: 983044

Ion	Ratio	Lower	Upper
105	100		
134	20.0	14.0	26.0
91	17.1	10.4	19.4
0	0.0	0.0	0.0

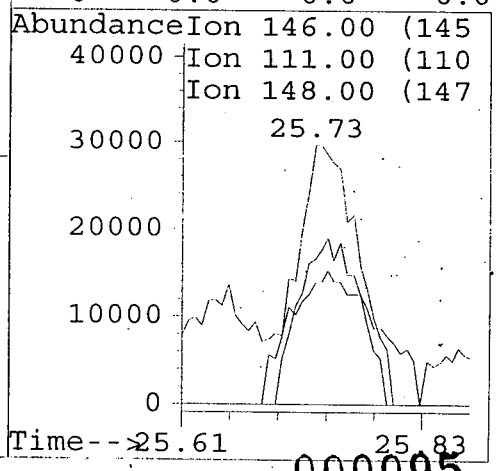




#68
1,3-dichlorobenzene
Concen: 3.50 ug/L
RT: 25.73 min Scan# 4881
Delta R.T. 0.00 min
Lab File: M7652.D
Acq: 5 Oct 98 2:38 pm

Tgt Ion:146 Resp: 116247

Ion	Ratio	Lower	Upper
146	100		
111	46.8	25.3	46.9
148	55.9	44.8	83.2
0	0.0	0.0	0.0



000095

Quantitation Report

JJ 10-6-98

Data File : D:\HPCHEM\3\DATA\V31005\M7650.D
Acq Time : 5 Oct 98 1:06 pm
Sample : 9215NJ-55482
Misc : 5ML 100 UL MEOH
Quant Time: Oct 6 9:26 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	14.69	96	1856793	50.00 ug/L	0.00
42) Chlorobenzene-d5	21.12	117	1665222	50.00 ug/L	0.02
56) 1,4-dichlorobenzene-d4	25.88	152	895232	50.00 ug/L	0.02
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	12.97	113	799166	55.68 ug/L	111.37%
29) 1,2-Dichlorethane-d4	14.03	65	818793	54.54 ug/L	109.09%
37) Toluene-d8	17.99	98	2444156	60.93 ug/L	121.85%
41) 4-Bromofluorobenzene	23.60	95	1152948	63.34 ug/L	126.69%
Target Compounds					Qvalue
4) vinyl chloride	4.37	62	72819	9.15 ug/L	89
13) trans-1,2-dichloroethene	12.14	61	9760936	549.82 ug/L	95
19) cis-1,2-dichloroethene	9.76	61	502703	28.88 ug/L	99
28) benzene	14.26	78	235628	5.00 ug/L	98
31) trichloroethene	15.53	130	370859	23.61 ug/L	95
38) toluene	18.15	91	507522	9.73 ug/L	97
51) ethylbenzene	21.28	91	507544	8.24 ug/L	98
52) m&p-xylenes	21.43	106	708280	33.47 ug/L	94
53) o-xylene	22.35	91	570719	11.93 ug/L	97
61) n-propylbenzene	23.87	120	43602	2.65 ug/L	94
66) 1,2,4-trimethylbenzene	24.89	105	548863	11.50 ug/L	96
72) n-butylbenzene	26.28	91	213219	4.27 ug/L	86

000096

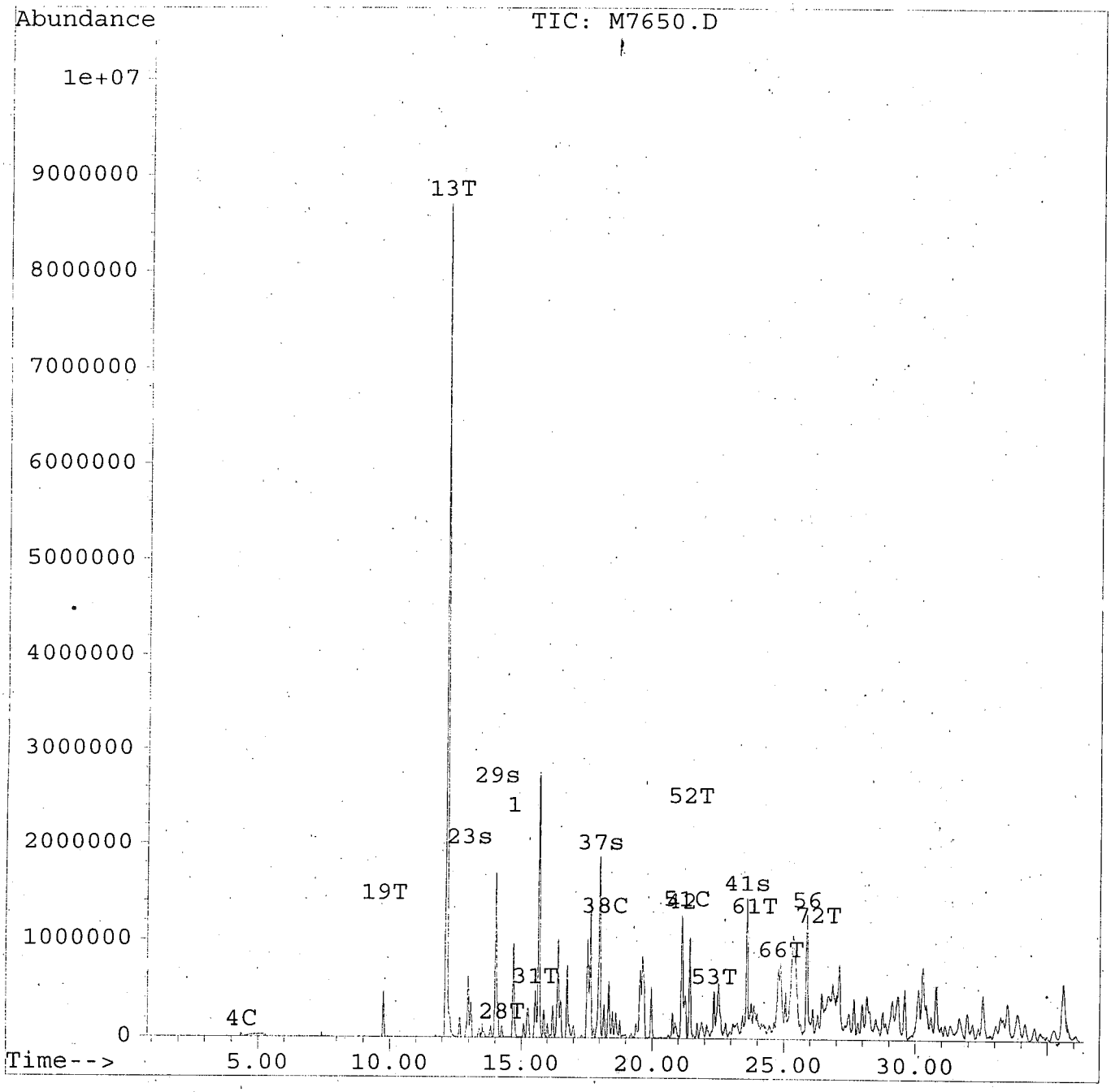
(#) = qualifier out of range (m) = manual integration

Quantitation Report

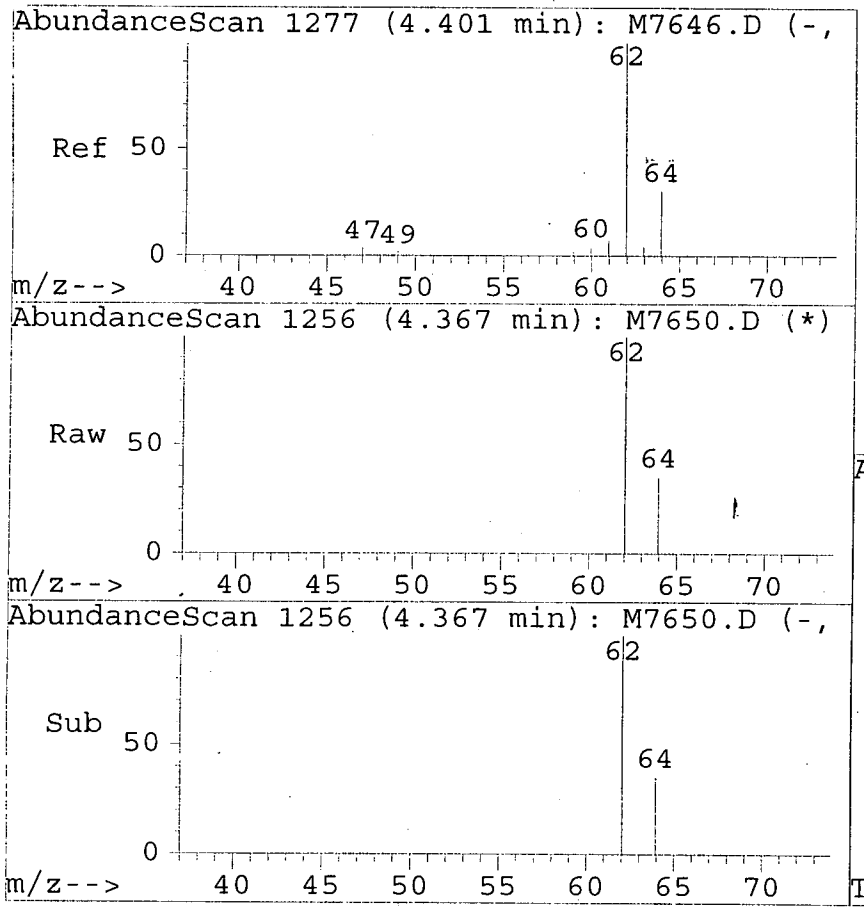
Data File : D:\HPCHEM\3\DATA\V31005\M7650.D
Acq Time : 5 Oct 98 1:06 pm
Sample : 9215NJ-55482
Misc : 5ML 100 UL MEOH
Quant Time: Oct 6 9:26 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration



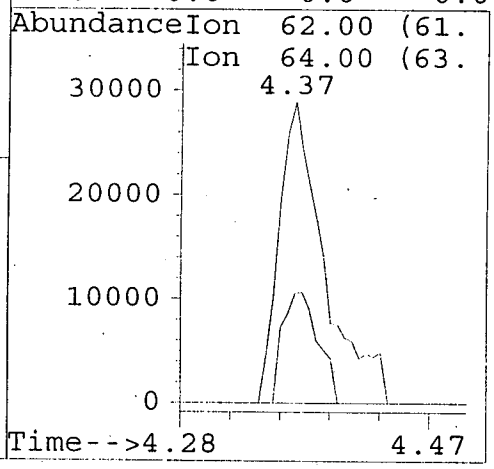
000097

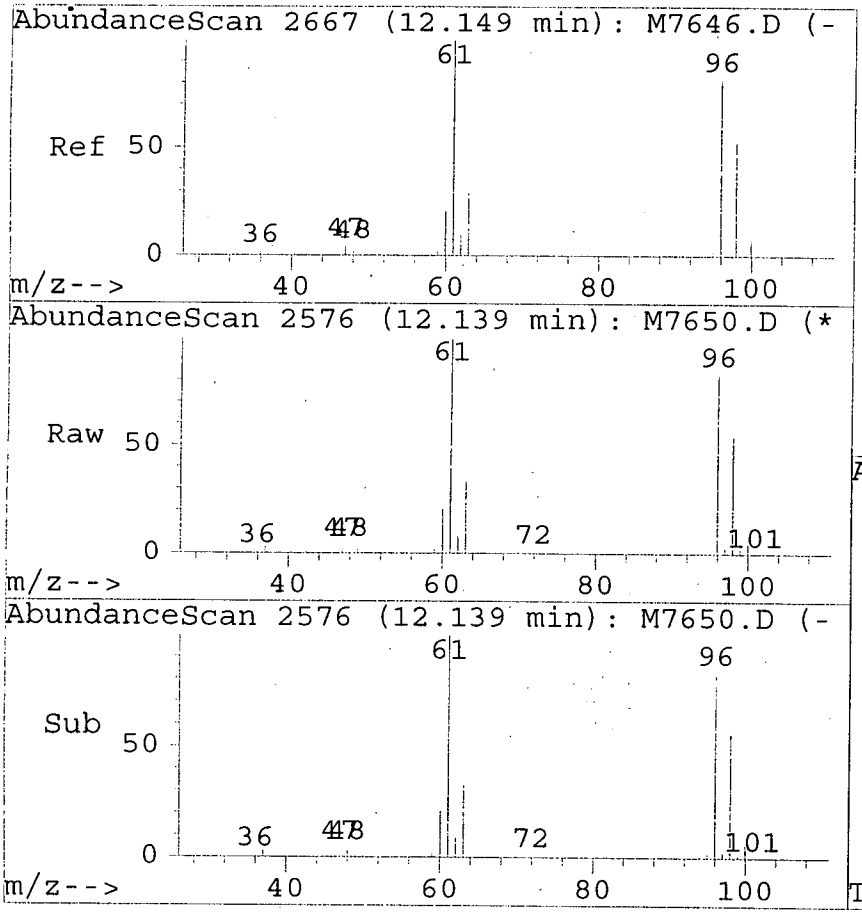


#4
vinyl chloride
Concen: 9.15 ug/L
RT: 4.37 min Scan# 1256
Delta R.T. -0.03 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:62 Resp: 72819

Ion	Ratio	Lower	Upper
62	100		
64	36.5	21.4	39.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

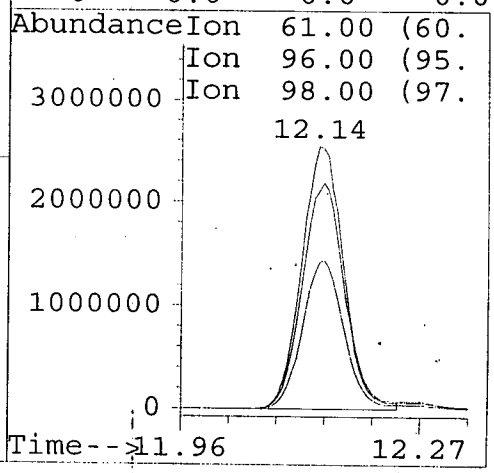




#13
trans-1,2-dichloroethene
Concen: 549.82 ug/L
RT: 12.14 min Scan# 2576
Delta R.T. -0.01 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:61 Resp: 9760936

Ion	Ratio	Lower	Upper
61	100		
96	82.5	55.7	103.5
98	55.6	35.4	65.7
0	0.0	0.0	0.0



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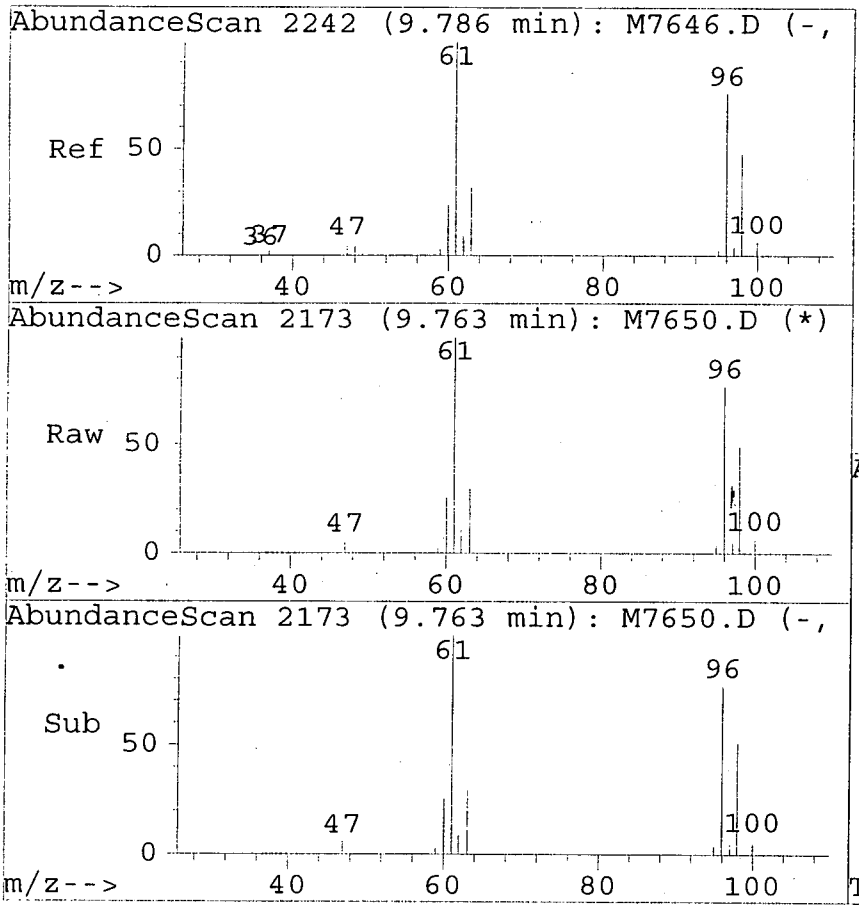
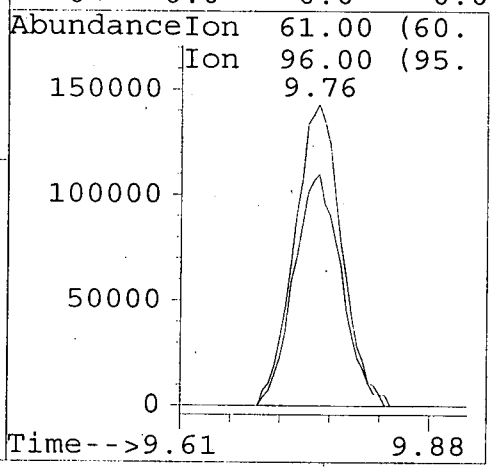
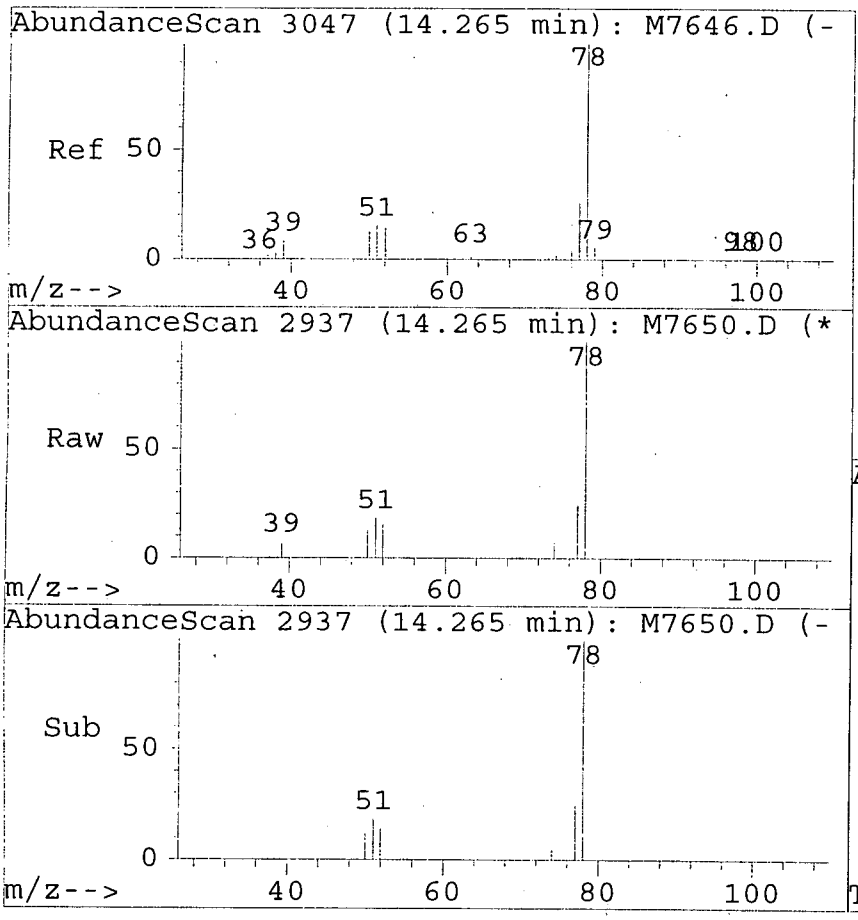


#19
cis-1,2-dichloroethene
Concen: 28.88 ug/L
RT: 9.76 min Scan# 2173
Delta R.T. -0.02 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:61 Resp: 502703

Ion	Ratio	Lower	Upper
61	100		
96	76.9	53.3	98.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

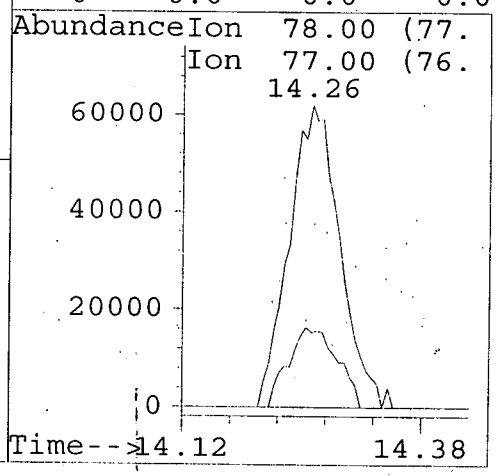




#28
benzene
Concen: 5.00 ug/L
RT: 14.26 min Scan# 2937
Delta R.T. 0.00 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:78 Resp: 235628

Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.1	33.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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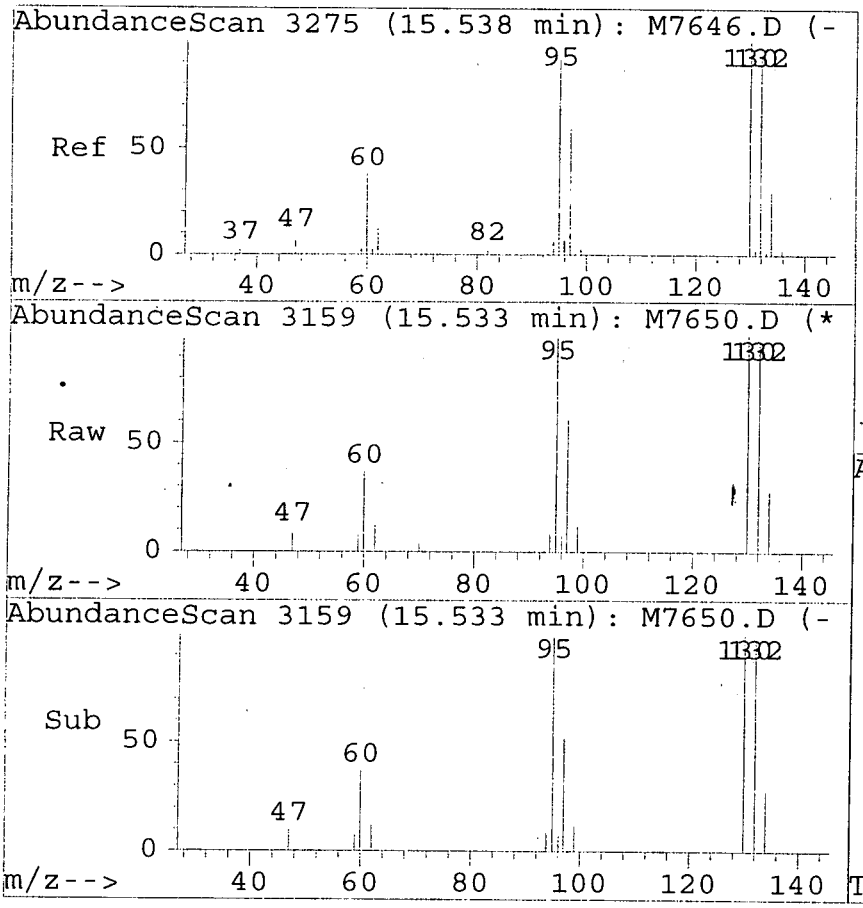
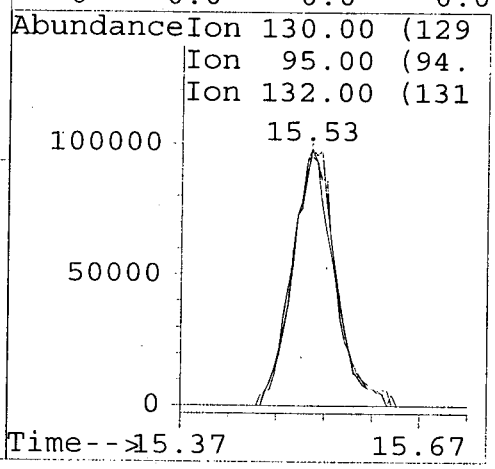
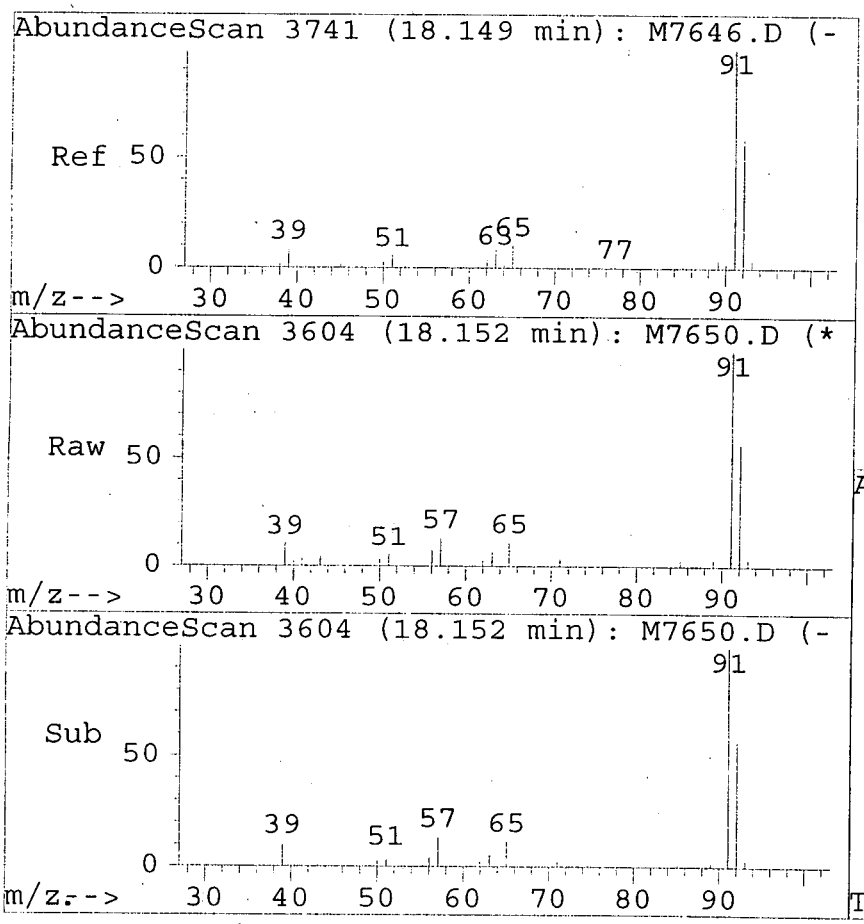


#31
trichloroethene
Concen: 23.61 ug/L
RT: 15.53 min Scan# 3159
Delta R.T. -0.00 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:130 Resp: 370859

Ion	Ratio	Lower	Upper
130	100		
95	99.5	64.8	120.3
132	96.8	65.8	122.2
0	0.0	0.0	0.0

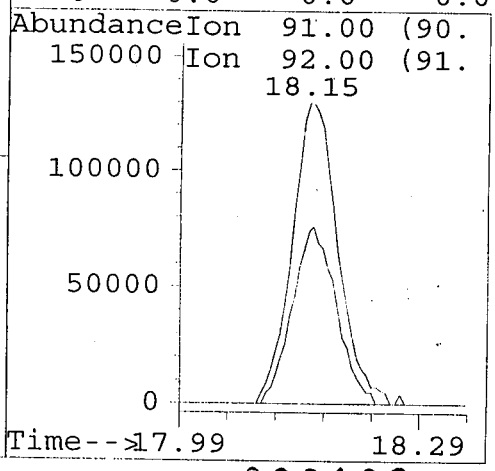




#38
toluene
Concen: 9.73 ug/L
RT: 18.15 min Scan# 3604
Delta R.T. 0.00 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:91 Resp: 507522

Ion	Ratio	Lower	Upper
91	100		
92	56.9	41.2	76.4
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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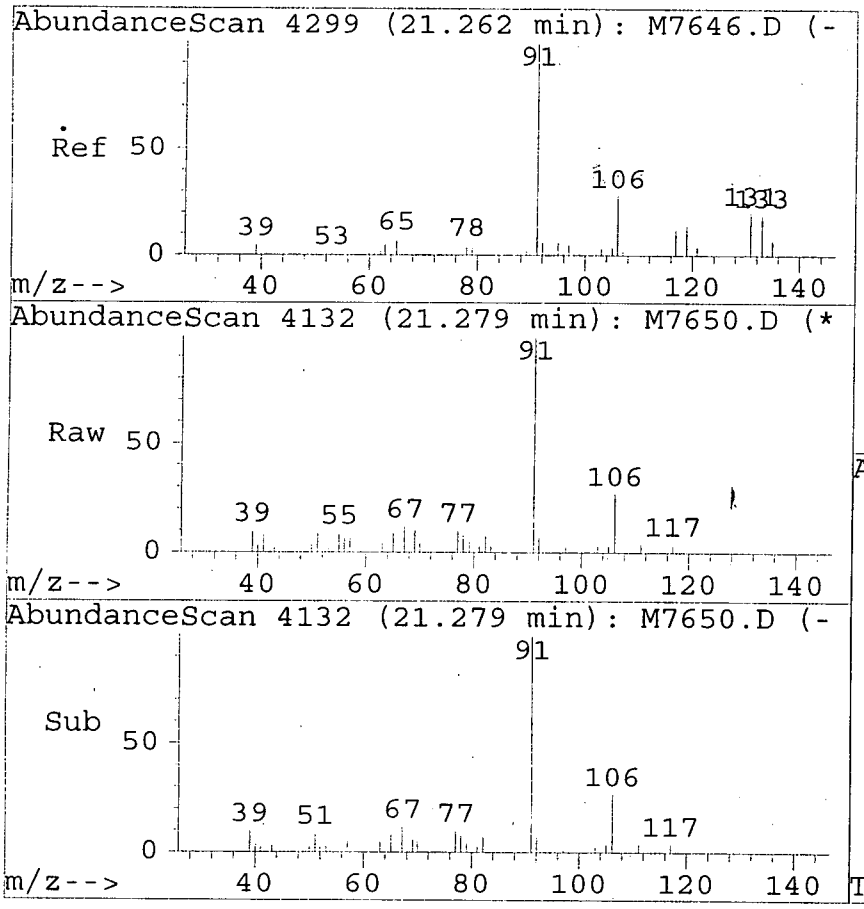
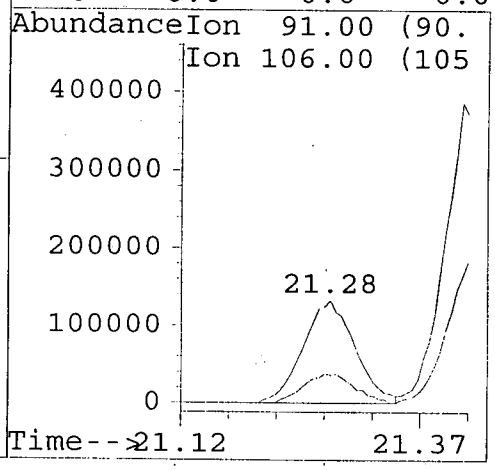
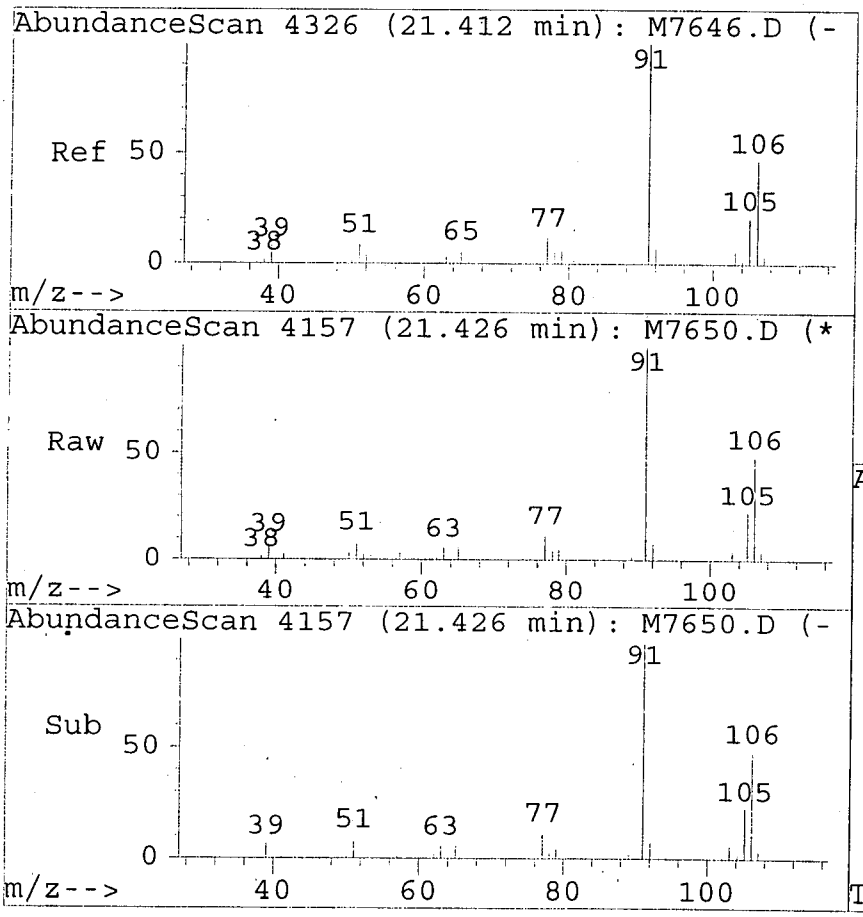


#51
ethylbenzene
Concen: 8.24 ug/L
RT: 21.28 min Scan# 4132
Delta R.T. 0.02 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:91 Resp: 507544

Ion	Ratio	Lower	Upper
91	100		
106	27.1	19.9	36.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

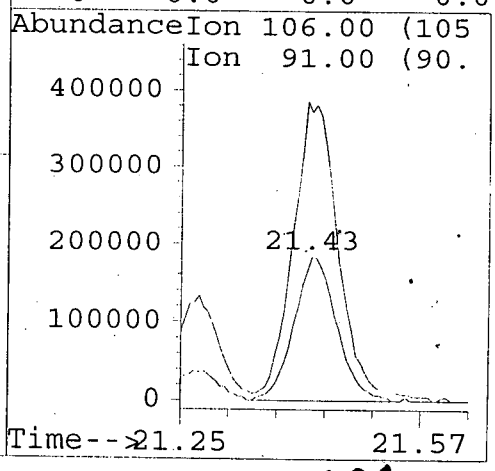




#52
m&p-xylenes
Concen: 33.47 ug/L
RT: 21.43 min Scan# 4157
Delta R.T. 0.01 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:106 Resp: 708280

Ion	Ratio	Lower	Upper
106	100		
91	203.4	149.0	276.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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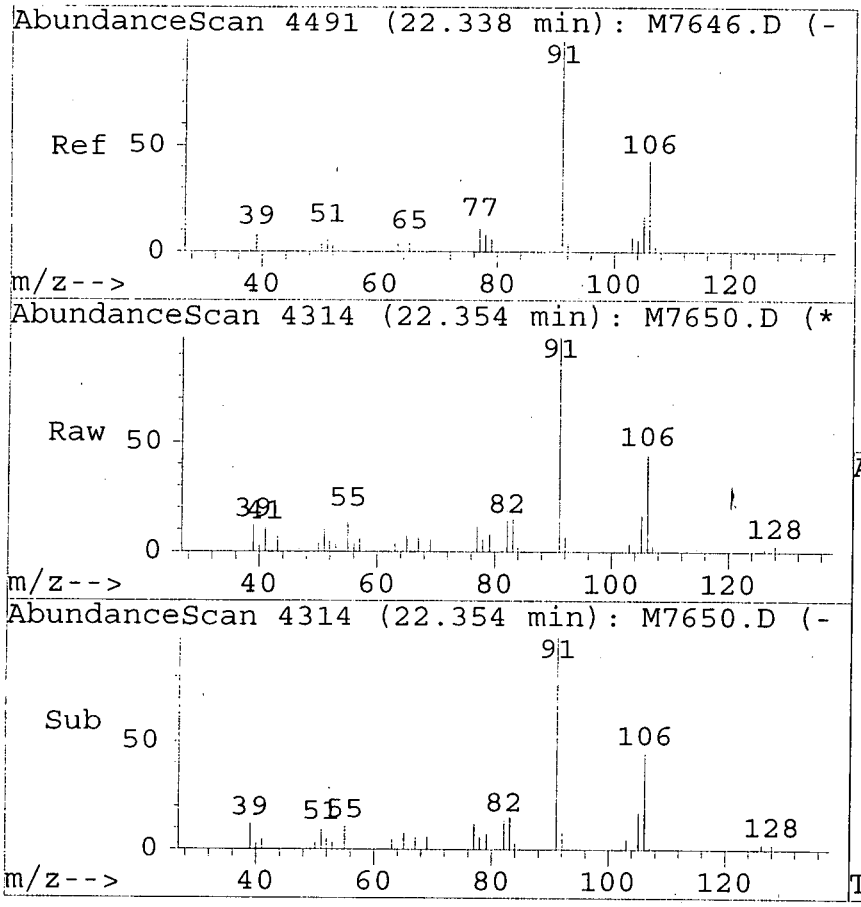
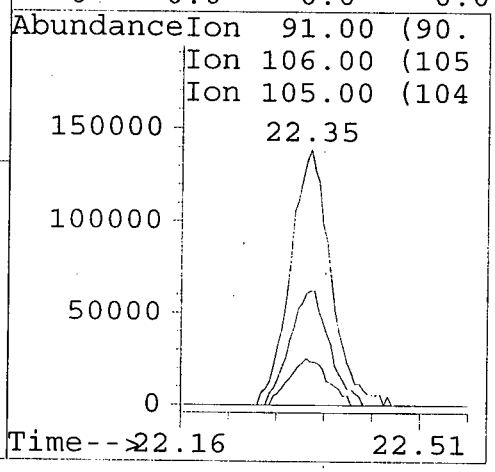
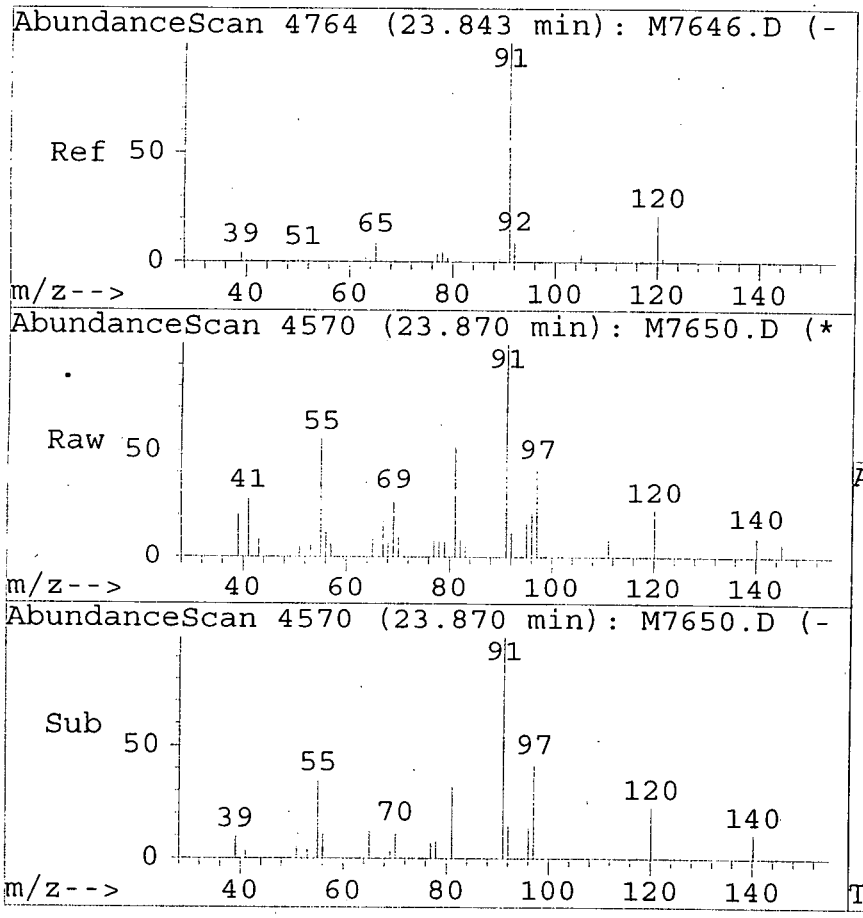


#53
o-xylene
Concen: 11.93 ug/L
RT: 22.35 min Scan# 4314
Delta R.T. 0.02 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:91 Resp: 570719

Ion	Ratio	Lower	Upper
91	100		
106	44.8	29.9	55.5
105	16.9	12.2	22.7
0	0.0	0.0	0.0

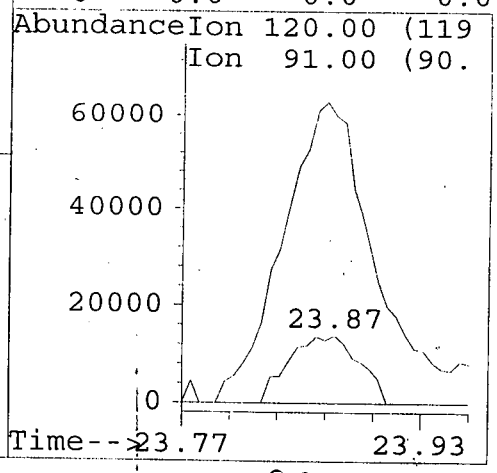




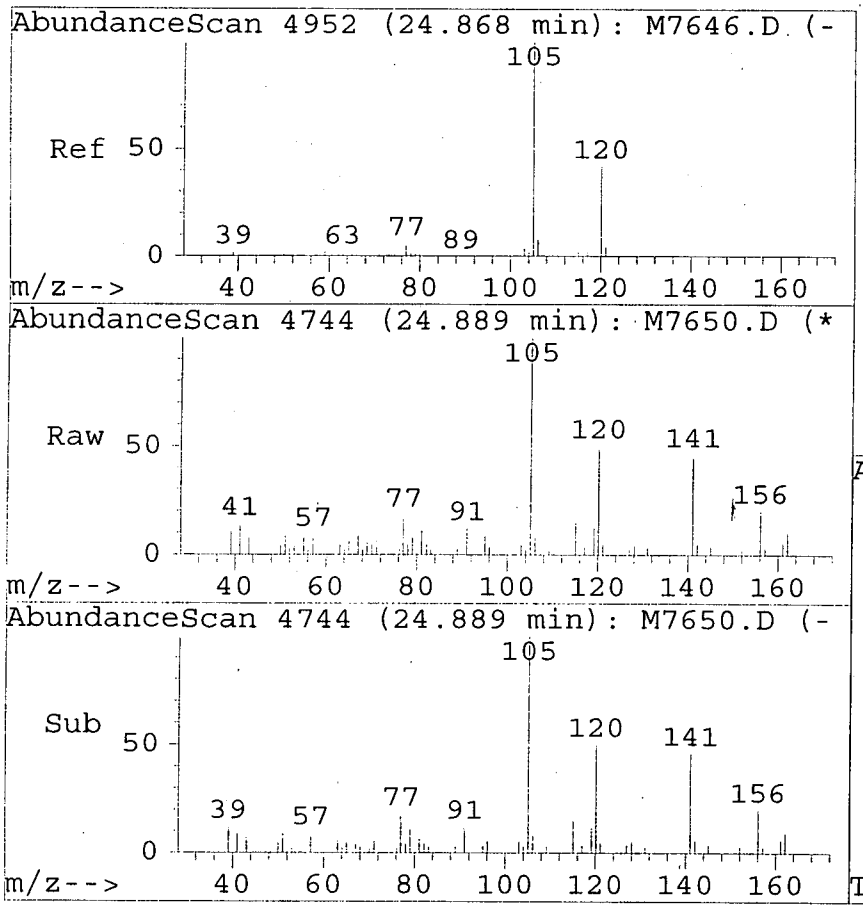
#61
n-propylbenzene
Concen: 2.65 ug/L
RT: 23.87 min Scan# 4570
Delta R.T. 0.03 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:120 Resp: 43602

Ion	Ratio	Lower	Upper
120	100		
91	433.8	313.8	582.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



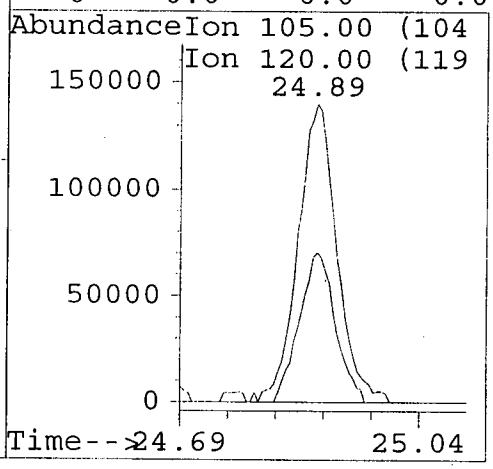
000102

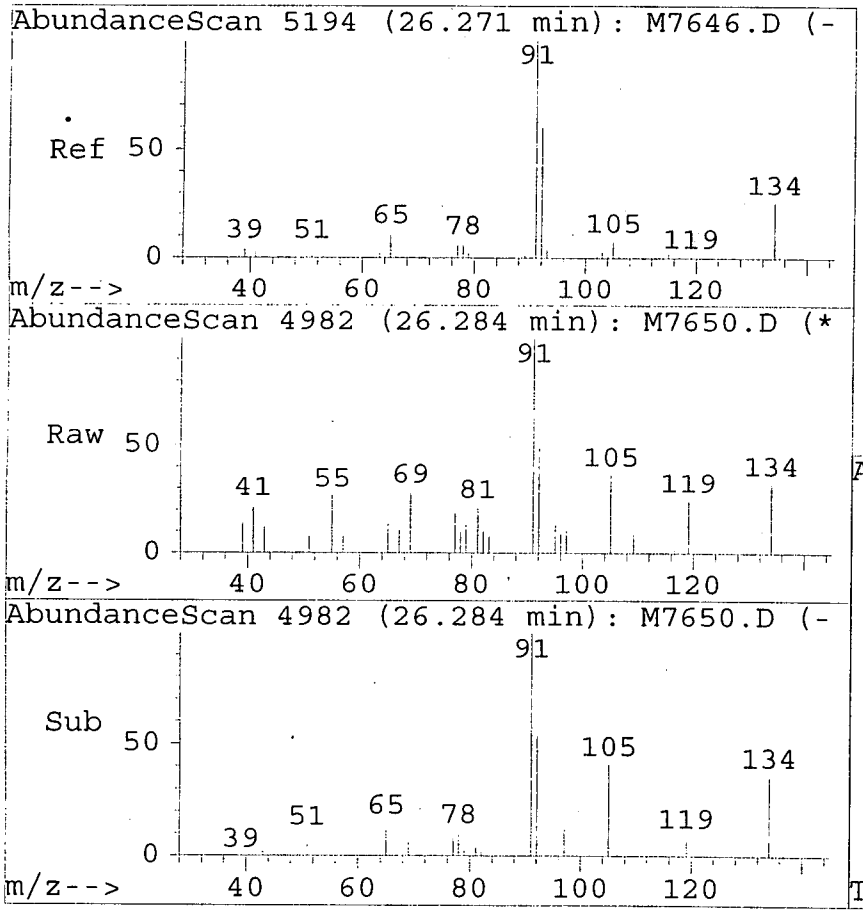


#66
1,2,4-trimethylbenzene
Concen: 11.50 ug/L
RT: 24.89 min Scan# 4744
Delta R.T. 0.02 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:105 Resp: 548863

Ion	Ratio	Lower	Upper
105	100		
120	50.3	33.2	61.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

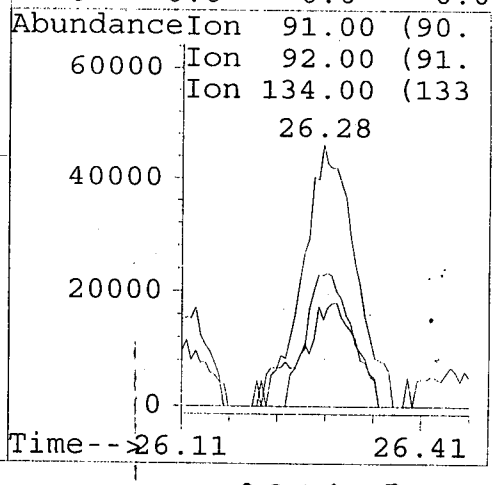




#72
n-butylbenzene
Concen: 4.27 ug/L
RT: 26.28 min Scan# 4982
Delta R.T. 0.01 min
Lab File: M7650.D
Acq: 5 Oct 98 1:06 pm

Tgt Ion:91 Resp: 213219

Ion	Ratio	Lower	Upper
91	100		
92	49.4	42.3	78.5
134	32.8	17.9	33.2
0	0.0	0.0	0.0



000103

Quantitation Report

JJ 10-6-98

Data File : D:\HPCHEM\3\DATA\V31005\M7651.D
Acq Time : 5 Oct 98 1:52 pm
Sample : 9215NJ-55482
Misc : 5ML 100 UL MEOH 10X
Quant Time: Oct 6 9:27 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	14.71	96	2058856	50.00 ug/L	0.00
42) Chlorobenzene-d5	21.13	117	1876643	50.00 ug/L	0.02
56) 1,4-dichlorobenzene-d4	25.88	152	980903	50.00 ug/L	0.01
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	12.98	113	103611	6.51 ug/L	13.02%
29) 1,2-Dichlorethane-d4	14.04	65	107086	6.43 ug/L	12.87%
37) Toluene-d8	18.00	98	344148	7.74 ug/L	15.47%
41) 4-Bromofluorobenzene	23.60	95	161669	8.01 ug/L	16.02%
Target Compounds					Qvalue
13) trans-1,2-dichloroethene	12.15	61	1502832	76.34 ug/L	93
19) cis-1,2-dichloroethene	9.79	61	69484	3.60 ug/L	77
31) trichloroethene	15.56	130	50846	2.92 ug/L	90
52) m&p-xylenes	21.43	106	96630	4.05 ug/L	97

000104

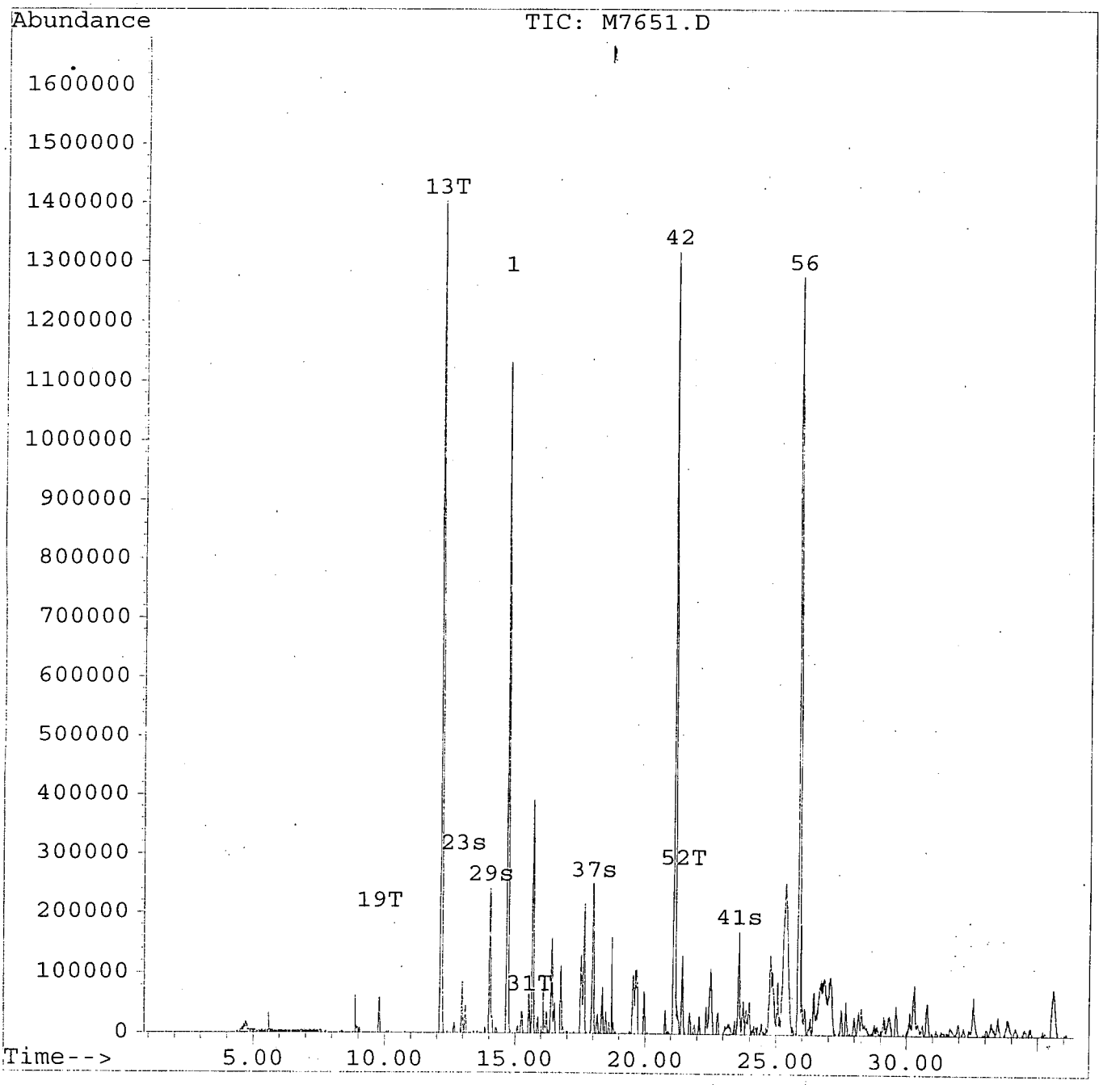
(#) = qualifier out of range (m) = manual integration

Quantitation Report

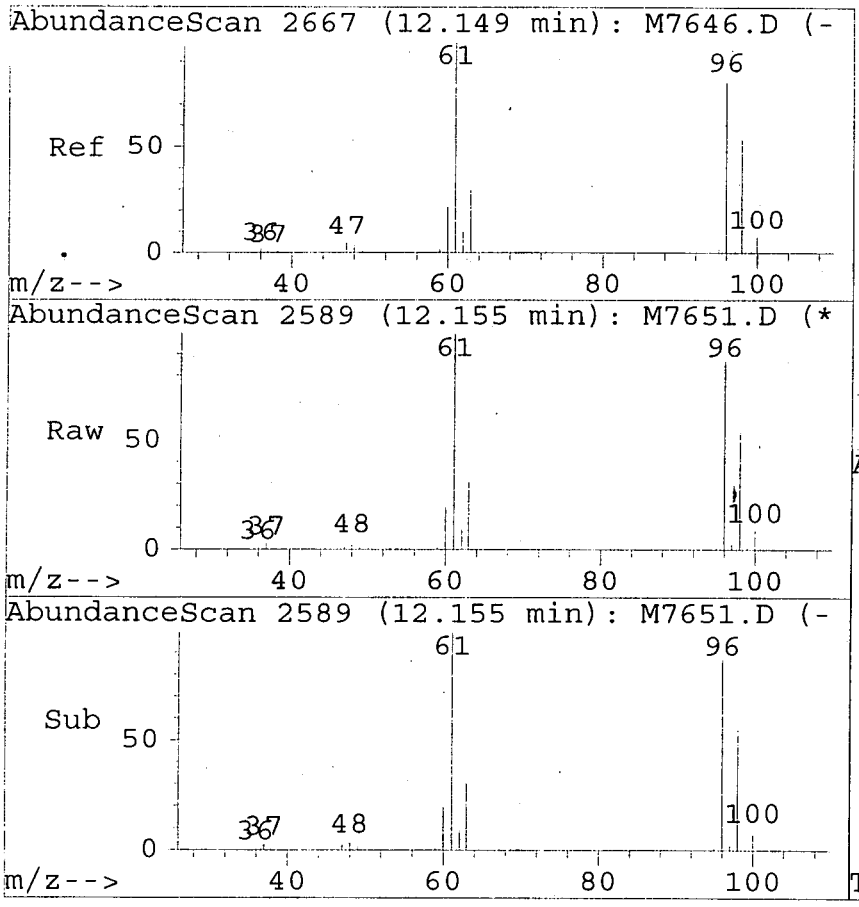
Data File : D:\HPCHEM\3\DATA\V31005\M7651.D
Acq Time : 5 Oct 98 1:52 pm
Sample : 9215NJ-55482
Misc : 5ML 100 UL MEOH 10X
Quant Time: Oct 6 9:27 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration



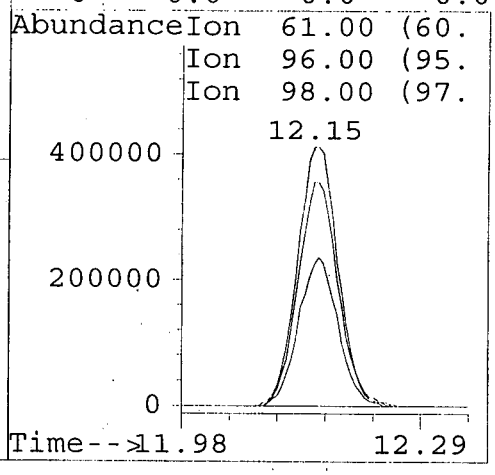
000105

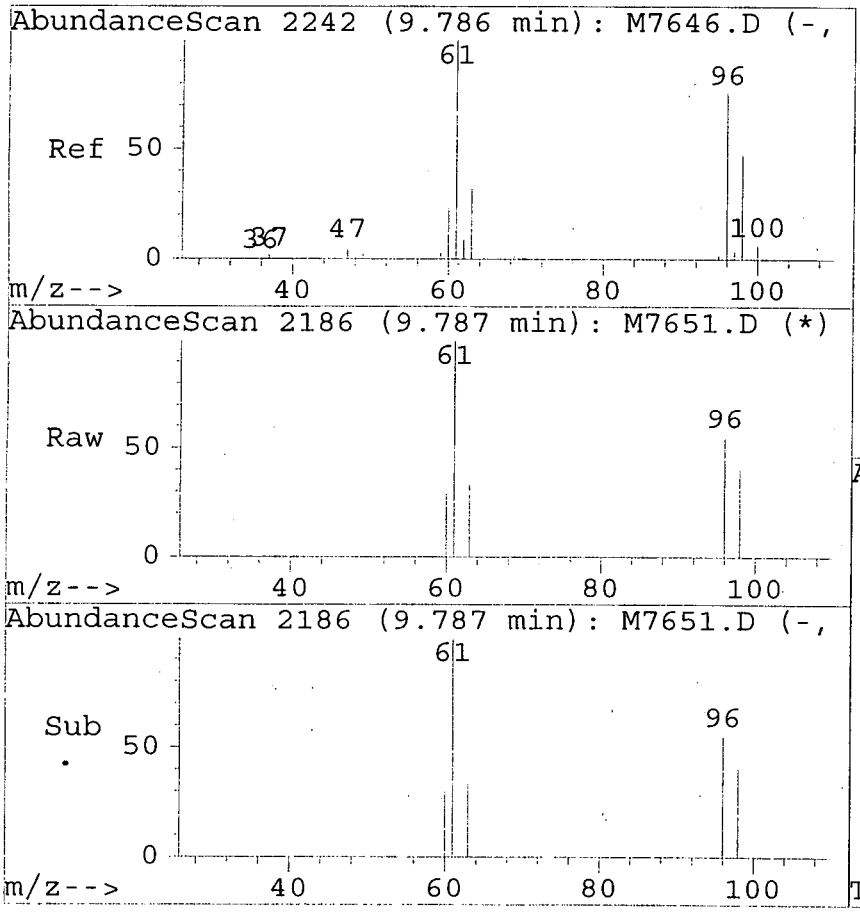


#13
trans-1,2-dichloroethene
Concen: 76.34 ug/L
RT: 12.15 min Scan# 2589
Delta R.T. 0.01 min
Lab File: M7651.D
Acq: 5 Oct 98 1:52 pm

Tgt Ion:61 Resp: 1502832

Ion	Ratio	Lower	Upper
61	100		
96	86.6	55.7	103.5
98	54.7	35.4	65.7
0	0.0	0.0	0.0

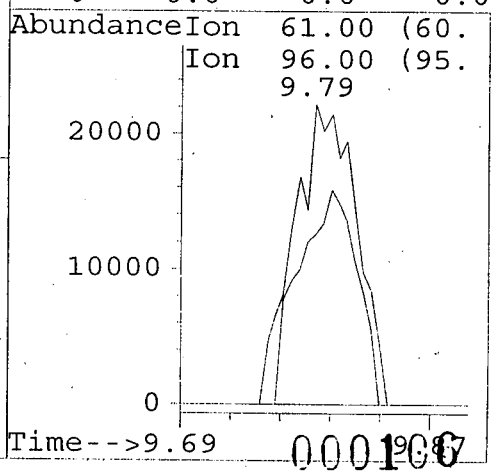


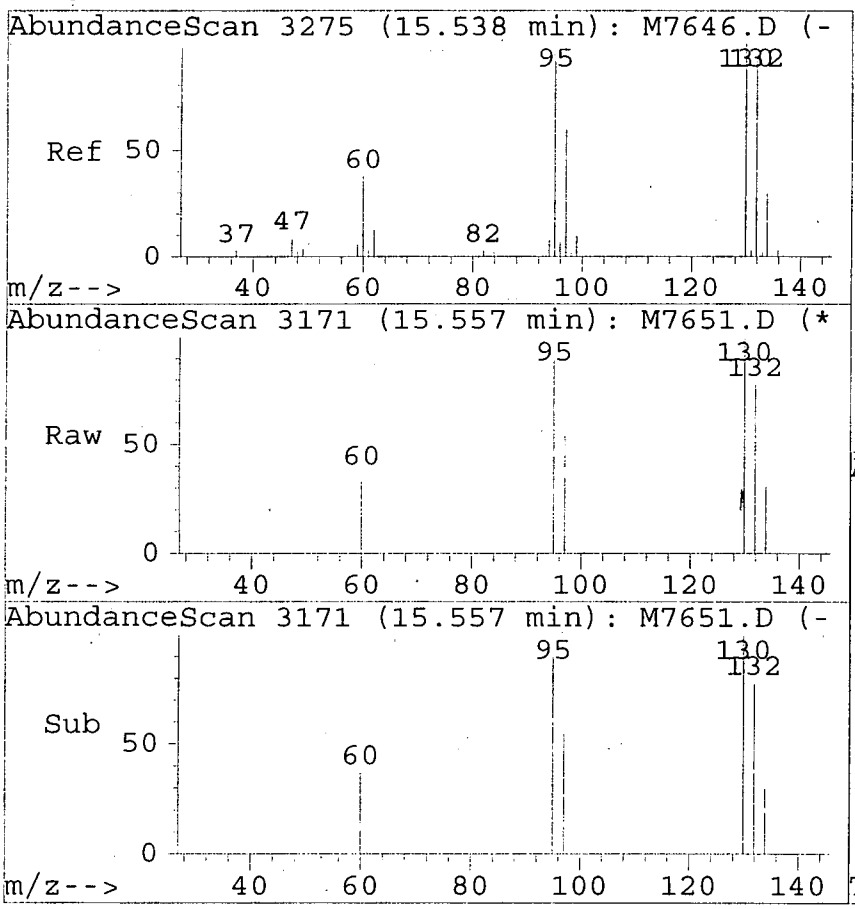


#19
cis-1,2-dichloroethene
Concen: 3.60 ug/L
RT: 9.79 min Scan# 2186
Delta R.T. 0.00 min
Lab File: M7651.D
Acq: 5 Oct 98 1:52 pm

Tgt Ion:61 Resp: 69484

Ion	Ratio	Lower	Upper
61	100		
96	56.3	53.3	98.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

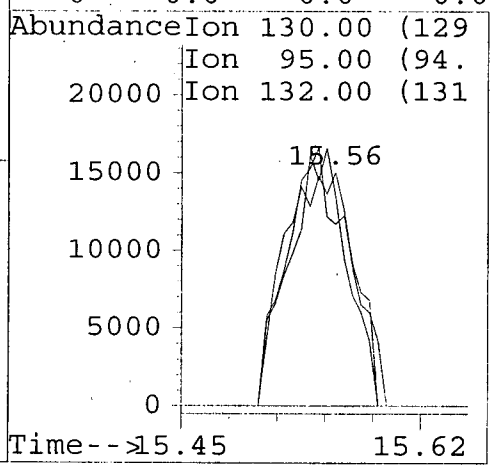


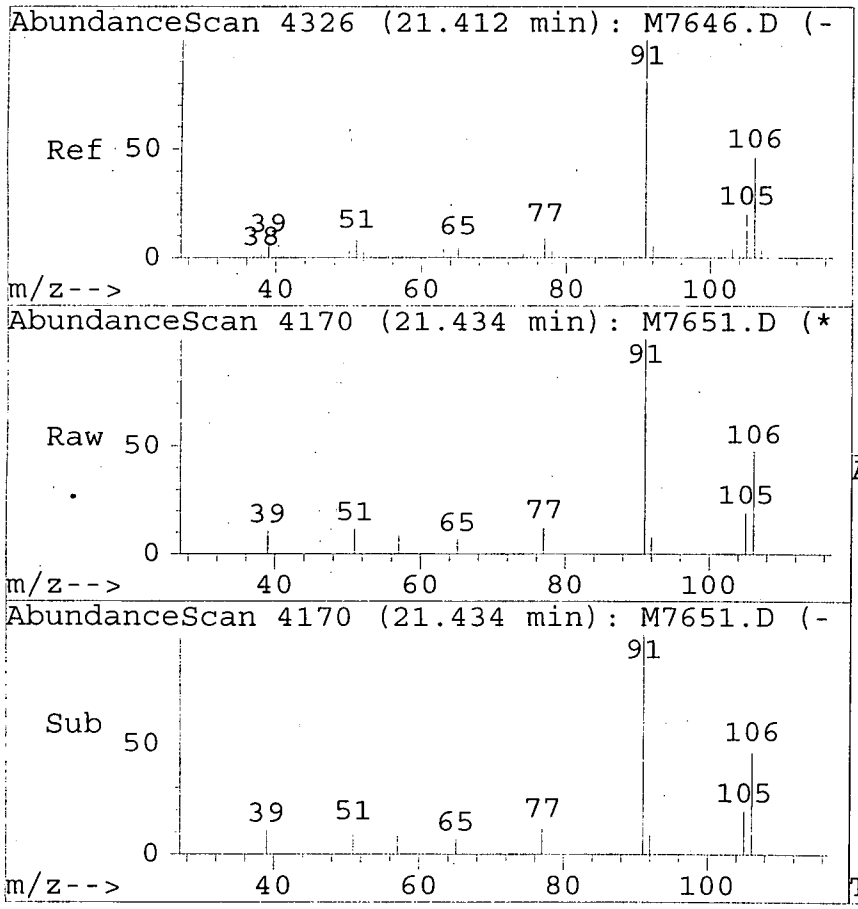


#31
trichloroethene
Concen: 2.92 ug/L
RT: 15.56 min Scan# 3171
Delta R.T. 0.02 min
Lab File: M7651.D
Acq: 5 Oct 98 1:52 pm

Tgt Ion:130 Resp: 50846

Ion	Ratio	Lower	Upper
130	100		
95	89.8	64.8	120.3
132	77.9	65.8	122.2
0	0.0	0.0	0.0

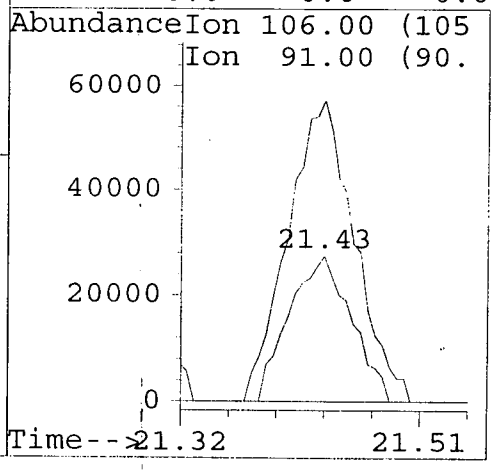




#52
m&p-xylenes
Concen: 4.05 ug/L
RT: 21.43 min Scan# 4170
Delta R.T. 0.02 min
Lab File: M7651.D
Acq: 5 Oct 98 1:52 pm

Tgt Ion:106 Resp: 96630

Ion	Ratio	Lower	Upper
106	100		
91	208.5	149.0	276.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



000107

Quantitation Report

Data File : D:\HPCHEM\3\DATA\V31005\M7647.D
Acq Time : 5 Oct 98 10:43 am
Sample : PRO BLK
Misc : 5ML
Quant Time: Oct 5 11:20 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	14.70	96	2257175	50.00 ug/L	0.00
42) Chlorobenzene-d5	21.12	117	2074687	50.00 ug/L	0.00
56) 1,4-dichlorobenzene-d4	25.87	152	1084043	50.00 ug/L	0.00

System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	12.97	113	872897	50.03 ug/L	100.07%
29) 1,2-Dichlorethane-d4	14.03	65	886207	48.56 ug/L	97.12%
37) Toluene-d8	17.98	98	2505729	51.38 ug/L	102.77%
41) 4-Bromofluorobenzene	23.59	95	1165795	52.69 ug/L	105.37%

Target Compounds	Qvalue

000108

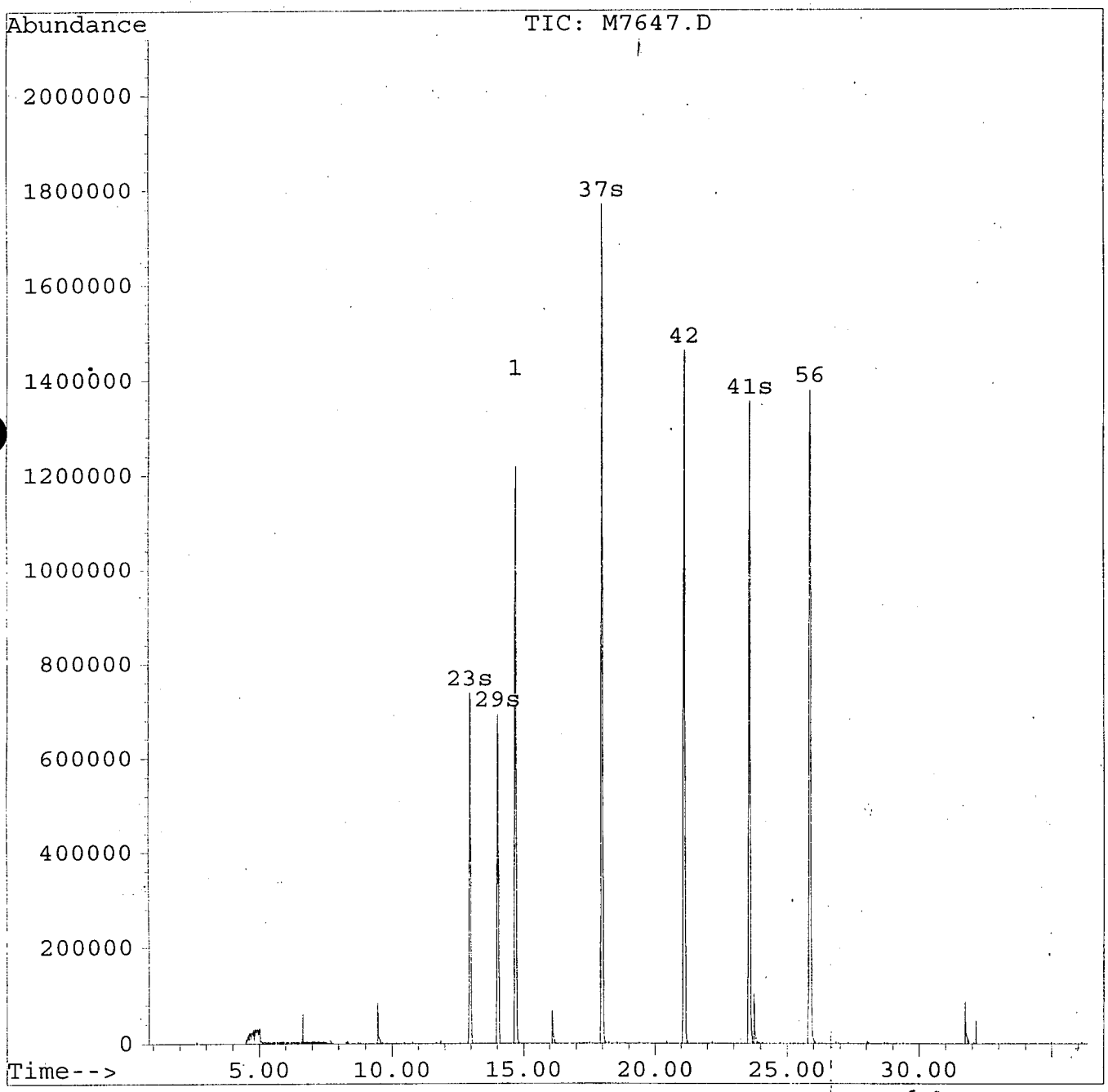
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\3\DATA\V31005\M7647.D
Acq Time : 5 Oct 98 10:43 am
Sample : PRO BLK
Misc : 5ML
Quant Time: Oct 5 11:20 1998

Operator: JJ
Inst : voa3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\V30919CW.M
Title : VOA
Last Update : Mon Oct 05 10:26:06 1998
Response via : Multiple Level Calibration



000109

PETROLEUM HYDROCARBONS DATA

PETROLEUM HYDROCARBONS

TEST RESULTS

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55467
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 1A
TIME SAMPLED- 1645 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	2666	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	85.79	%

LABORATORY DIRECTOR _____

000112

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
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NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55468
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 2A
TIME SAMPLED- 1448 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	2005	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	84.62	%

LABORATORY DIRECTOR _____

000113

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55469
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 3A
TIME SAMPLED- 1655 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	2970	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	84.64	%

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000114

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55470
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 4A
TIME SAMPLED- 1656 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	5419	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	79.08	%

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55471
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 5A
TIME SAMPLED- 1710 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	7741	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	83.80	%

LABORATORY DIRECTOR _____

000116

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55472
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 6A
TIME SAMPLED- 1715 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	3365	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	80.11	%

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000117

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LABORATORY REPORT

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ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55473
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 7A
TIME SAMPLED- 1725 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	168	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	80.81	%

LABORATORY DIRECTOR _____

000118

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55474
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 8A
TIME SAMPLED- 1730 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	97.6	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	81.34	%

LABORATORY DIRECTOR _____

000119

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LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55475
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 9A
TIME SAMPLED- 1746 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	708	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	80.93	%

LABORATORY DIRECTOR _____

000120

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CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

ENVIR. & SAFETY COMPLIANCE COR
465 SIDNEY ROAD
PISCATAWAY, NJ 08854-
Attn: JOE LOCKWOOD

DATE: 10/05/98

PROJECT # 9215 NJ

SAMPLE NUMBER- 55476
DATE SAMPLED- 09/29/98
DATE RECEIVED- 09/30/98
DELIVERED BY- IMPULSE

SAMPLE ID- 10A
TIME SAMPLED- 1749 SAMPLER- CLIENT
TIME RECEIVED- 1420
RECEIVED BY- AP SAMPLE MATRIX- SO

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	418.1	10/02/98		BS	818	mg/Kg
SOLIDS, PERCENT	160.3	10/02/98		BS	81.84	%

LABORATORY DIRECTOR _____

000121

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PETROLEUM HYDROCARBONS

QC RESULTS

CHEMTECH

LABORATORY REPORT

QC REPORT FOR ENVIR. & SAFETY COMPLIANCE COR 10/05/98

QA/QC for SAMPLE Nos: 55467, 55468, 55469, 55470, 55471, 55472, 55473, 55474, 55475, 55476,

Page 1

		Precision Data				Accuracy Data	Reference Sample Data			
Analyte	LAB ID	Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TOTAL PETROLEUM	55473	168.42	161.42	7.0	4.24	102.16	MCS	175.0	164.47	93.98
HYDROCARBONS							ICV	150.0	148.25	98.83
418.1							ICB	<10.0	<10.00	100.00
UNITS:							PBS	<33.3	<33.30	100.00
A & B = MG/KG							CCV1	50.00	47.69	95.38
MCS,PBS = MG/KG							CCB1	<10.0	<10.00	100.00
ICV,ICB,CCV,CCB = MG/L							CCV2	50.00	52.80	105.60
							CCB2	<10.0	<10.00	100.00

000123

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NJDEP Certification No. 15004

PETROLEUM HYDROCARBONS

IR SPECTRA

TOTAL PETROLEUM HYDROCARBONS / [redacted]

CHEMTECH
CONSULTING GROUP INC

EXTRACTION

Method #: 9071 Matrix: Soil Project No.: 9215M7, 9205M7

Balance Check: pass Analyst: BS Date: 10 / 02 / 98

Std. Name	mL used	Std. Ref. # From Logbook	Chemical Used	Lot #:
MCS	5.25	5044	Mg5044	X0405
Spiked with 9215M7-55473	2.25	5044	Spike4	X0406
			Fa044	X0203
			Mg2504	X0506

Sr. #	Lab Sample No.	Client Sample No.	Sample Vol. (mL) Wt. g	Extract Final Vol. (mL)	Comment
1	MCS		300	100	Spiked with 175 mg/kg
2	PBS				—
3	9205M7 55467	1A			—
4	55468	2A			—
5	55469	3A			—
6	55470	4A			—
7	55471	5A			—
8	55472	6A			—
9	55473	7A			—
10	55473 (DUP)	7A (DUP)			—
11	55473 (SPIKE)	7A (SPIKE)			Spiked with 50 mg/kg
12	55474	8A			—
13	55475	9A			—
14	55476	10A			—
15	9205M7 55375	PRP-WC01-03			—
					BS

Rev. 12/95

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CHEMTECH
CONSULTING GROUP, INC.

TOTAL PETROLEUM HYDROCARBONS

Project No.: 9215N3, 9215N7
Date: 10 / 02 / '98
r: 0.9984 x: 3.4088 b: 5.0801

Method #: 418-1
Analyst: BB

Std. Name	mL Used	Std. Ref. # From Logbook
Cali. Std	20 ml	5-044
ICV	3 ml	5-045

Lab ID No.	Sample ID No. EPA	Sample Vol. (mL) Wg. g	Extraction Vol. mL	DF	Absorbance Units	Sample Blank Abs. Units	TPHC Conc. (mg/L)	mg/Kg Wet	TPHC mg/Kg Dry Soil
					Standards				
Std 1	0.0 mg/l				0.0	0.0	0.0	–	–
2	10.0 "				2.5	2.5	10.0	–	–
3	25.0 "				4.5	4.5	25.0	–	–
4	50.0 "				11.5	11.5	50.0	–	–
5	100.0 "				28.0	28.0	100.0	–	–
6	200.0 "				57.5	57.5	200.0	–	–
MCS	175 mg/kg	30.0	100		13.0	13.0	49.39	164.47	164.47
ICV	150 mg/l				42.0	42.0	148.25	–	–
ICB			1		0.0	0.0	<10.0	–	–
PBS		30.0	100		0.0	0.0	<10.0	<33.3	<33.3
* 9215N3-55467	1A	30.0	100			O/C			

Comments:

Rev. 12/95

CHEMTECH
CONSULTING GROUP, INC.

TOTAL PETROLEUM HYDROCARBONS

Project No.: ____
Date: ____/____/____
r: ____ x: ____ b: ____

Method #: ____
Analyst: ____

Std. Name	mL Used	Std. Ref. # From Logbook

Lab ID No.	Sample ID No. EPA	Sample Vol. (mL) Wg. g	Extraction Vol. mL	DF	Absorbance Units	Sample Blank Abs. Units	TPHC Conc. (mg/L)	mg/Kg Wet	TPHC mg/Kg Dry Soil
-55467	1A	30.0	100			o/c			
-55467	1A	30.0	100	8	25.0	25.0	686.84	2287.18	2666.02
-55468	2A	30.0	100			o/c			
-55468	2A	30.0	100	4	37.0	37.0	509.58	1696.90	2005.32
-55469	3A	30.0	100			o/c			
-55469	3A	30.0	100	4	55.0	55.0	755.02	2514.22	2970.49
-55470	4A	30.0	100			o/c			
-55470	4A	30.0	100	8	47.0	47.0	1286.79	4285.01	5418.58
CCV	50mg/l				12.5	12.5	47.69	—	—
CCB			1		0.0	0.0	<10.0	—	—
-55471	5A	30.0	100			o/c			
-55471	5A	30.0	100	10	57.0	57.0	1948.10	6487.17	7741.25

Comments:

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CHEMTECH
CONSULTING GROUP, INC.

TOTAL PETROLEUM HYDROCARBONS

Project No.: ____
Date: ___/___/___
r: ____ x: ____ b: ____

Method #: ____
Analyst: ____

Std. Name	mL Used	Std. Ref. # From Logbook
		BS

Lab ID No.	Sample ID No. EPA	Sample Vol. (mL) Wg. g	Extraction Vol. mL	DF	Absorbance Units	Sample Blank Abs. Units	TPHC Conc. (mg/L)	mg/Kg Wet	TPHC mg/Kg Dry Soil
-55472	6A	30.0	100			o/c			
-55472	6A	30.0	100	8	29.5	29.5	869.56	2695.83	3365.16
-55473	7A	30.0	100		10.5	10.5	40.87	136.18	168.42
-55473 (DUP)	7A (DUP)	30.0	100		10.0	10.0	39.17	130.44	161.42
-55473 (spike)	7A (spike)	30.0	100		15.0	15.0	56.21	187.18	231.63
-55474	8A	30.0	100		5.5	5.5	23.83	79.35	97.55
-55475	9A	30.0	100		49.0	49.0	172.11	573.13	708.18
-55476	10A	30.0	100		57.5	57.5	201.69	669.63	818.22
CCV	50 mg/l				14.0	14.0	52.80	—	—
CCB			1		0.0	0.0	<10.0	—	—
92215MJ 55375	PRR-WC01-03	30.0	100		5.5	5.5	23.83	79.35	~~97.55~~ 94.40
CCV	50 mg/l				13.5	13.5	51.10	—	—

Comments: Spiked with BS 92215MJ - 55473 Soil = 50 mg/Kg
S.R. = 102.16%.

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CHEMTECH
CONSULTING GROUP, INC.

TOTAL PETROLEUM HYDROCARBONS

Project No.: —
Date: — / — / —
r: — x: — b: —

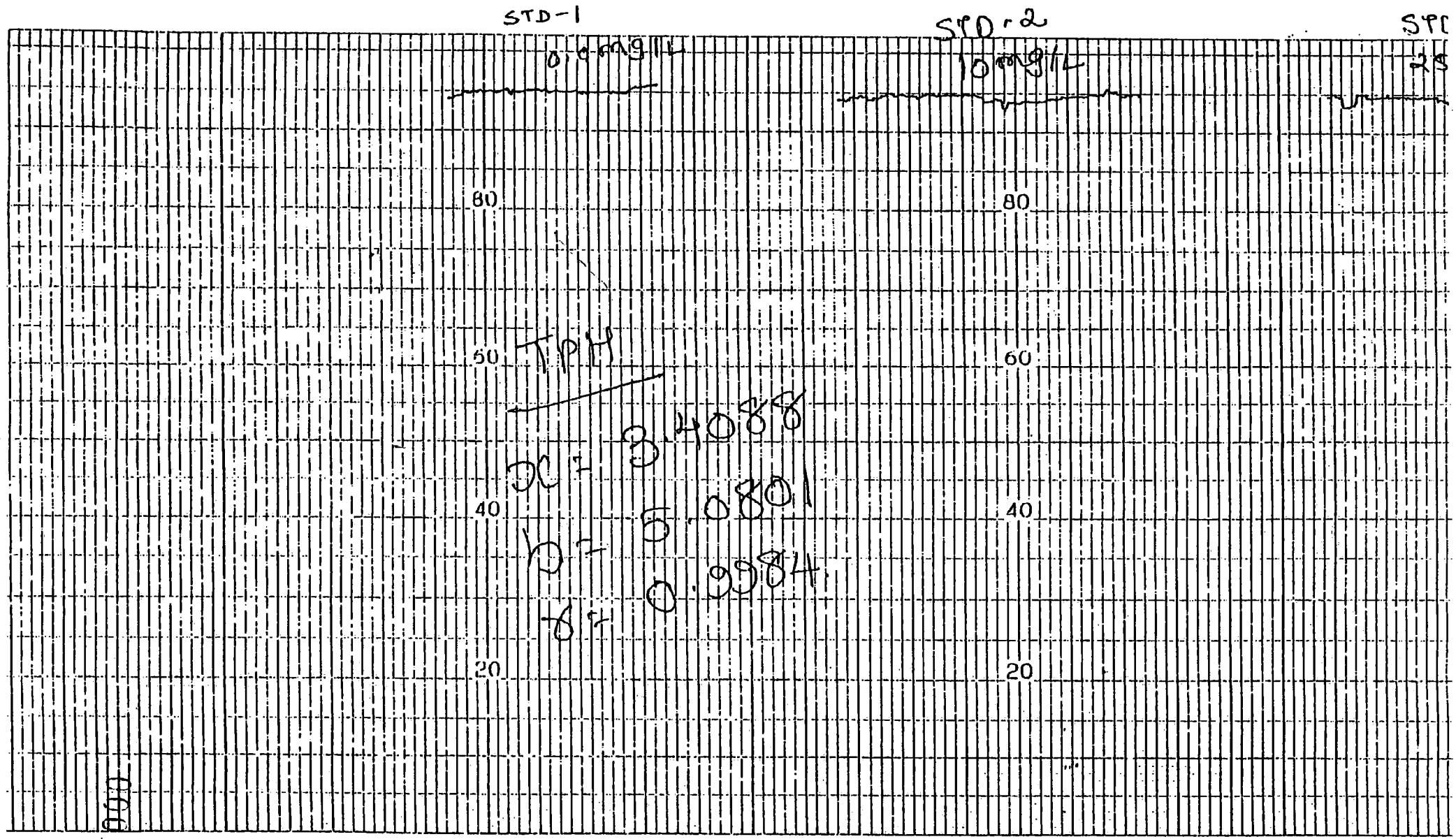
Method #: —
Analyst: —

Std. Name	mL Used	Std. Ref. # From Logbook

Lab ID No.	Sample ID No. EPA	Sample Vol. (mL) Wg. g	Extraction Vol. mL	DF	Absorbance Units	Sample Blank Abs. Units	TPHC Conc. (mg/L)	mg/Kg Wet	TPHC mg/Kg Dry Soil
CCB					0.0	0.0	<10.0	—	—
CCV									
CCB									

Comments:

Rev. 12/95



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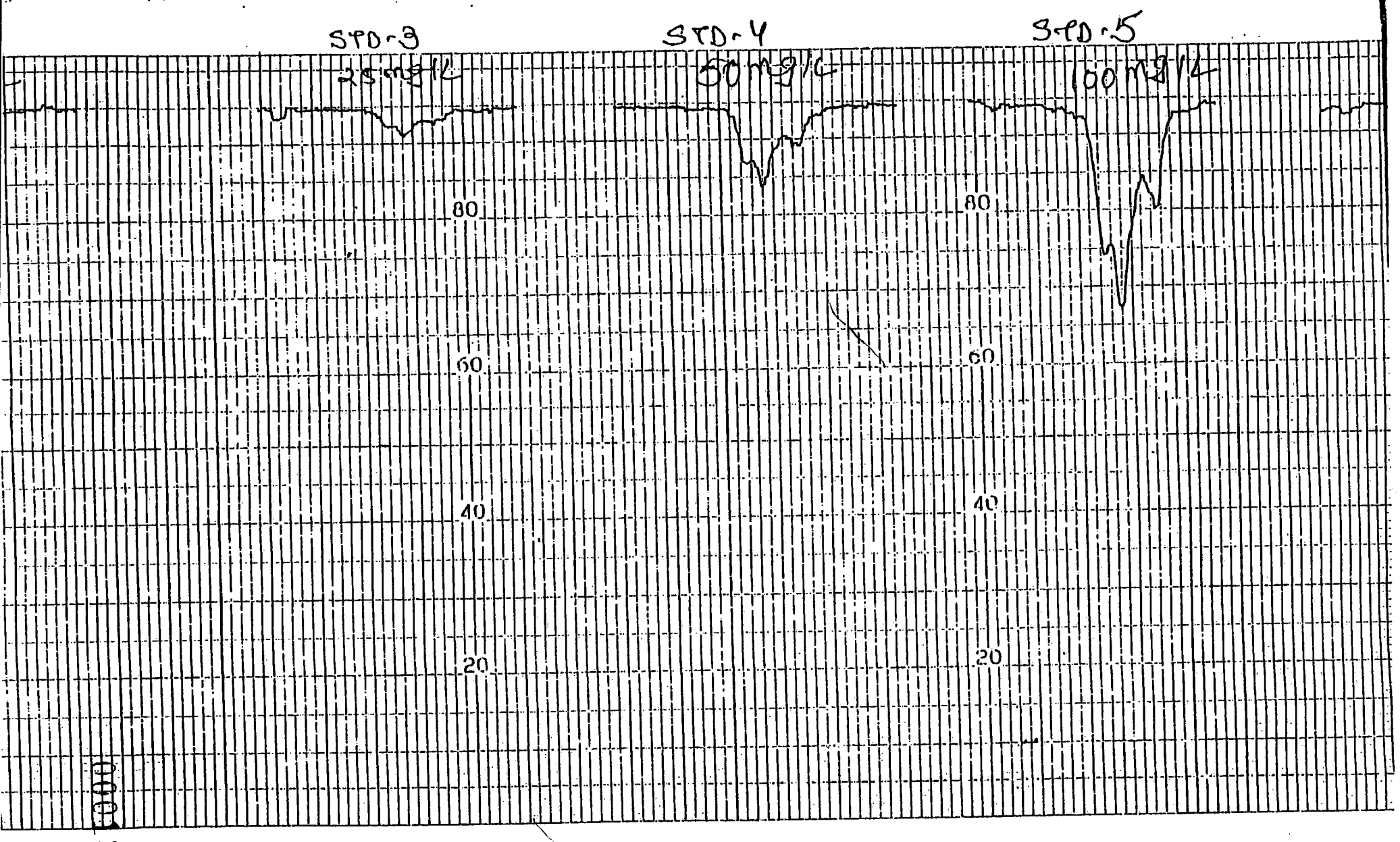

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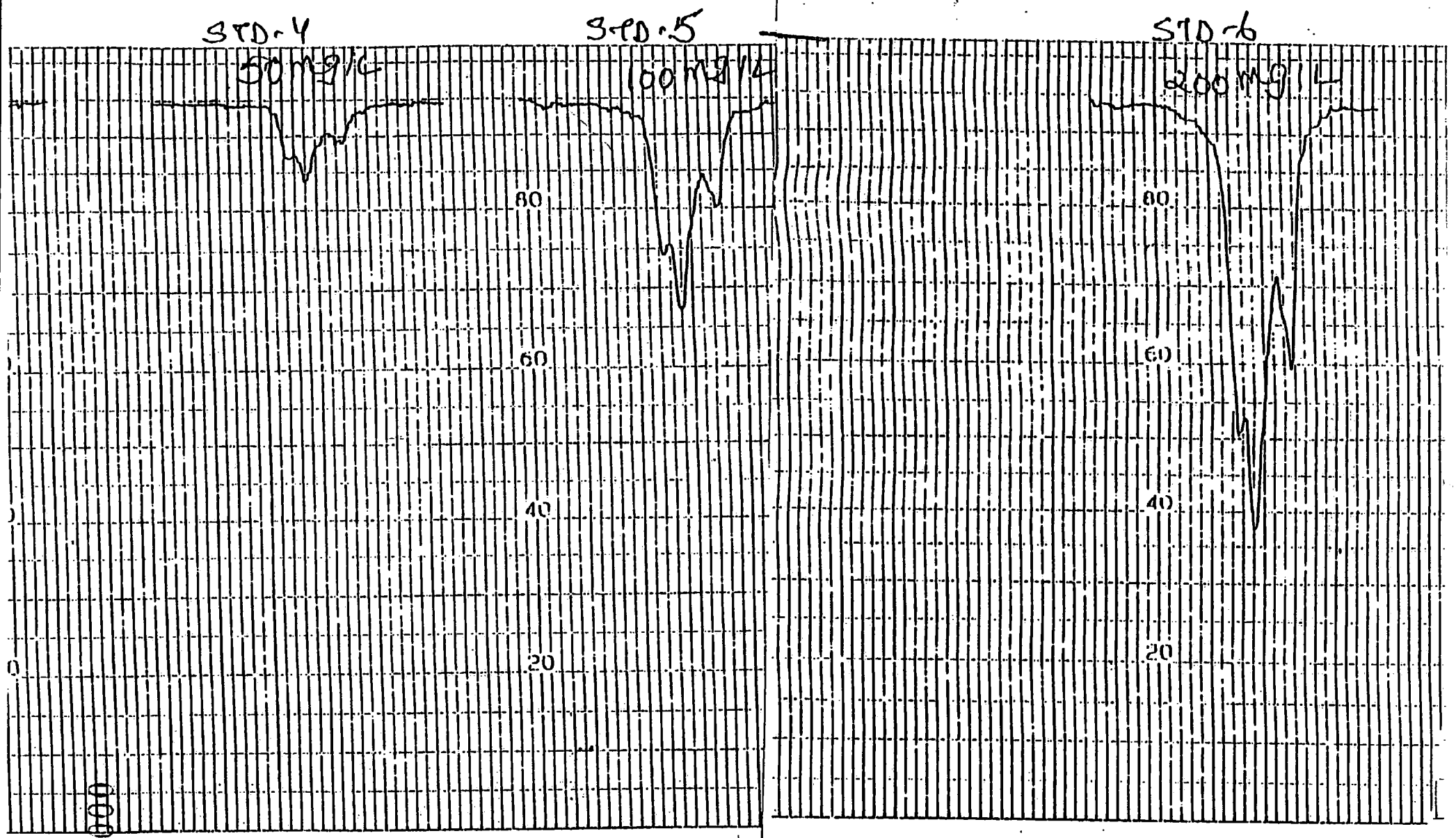

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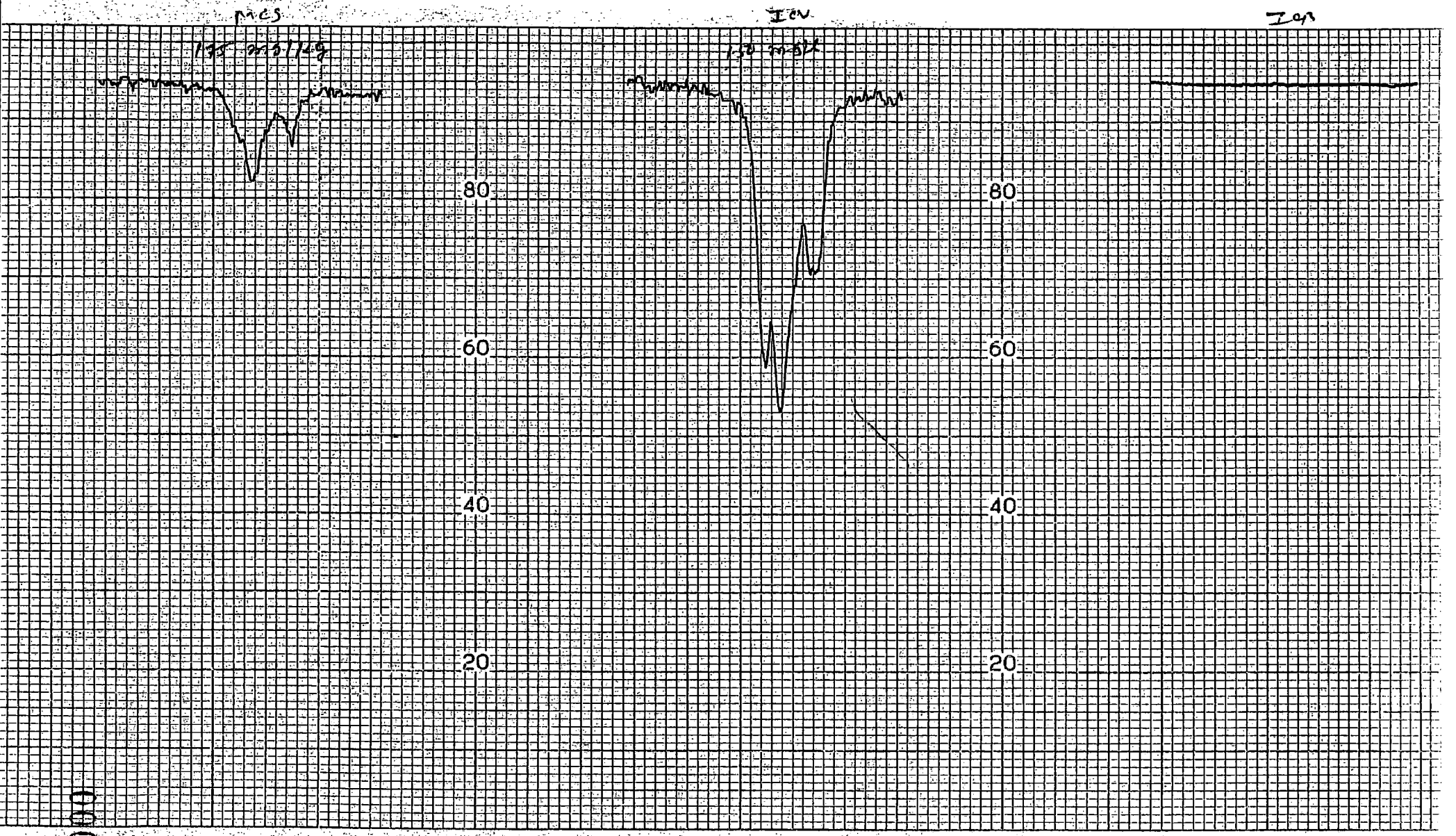

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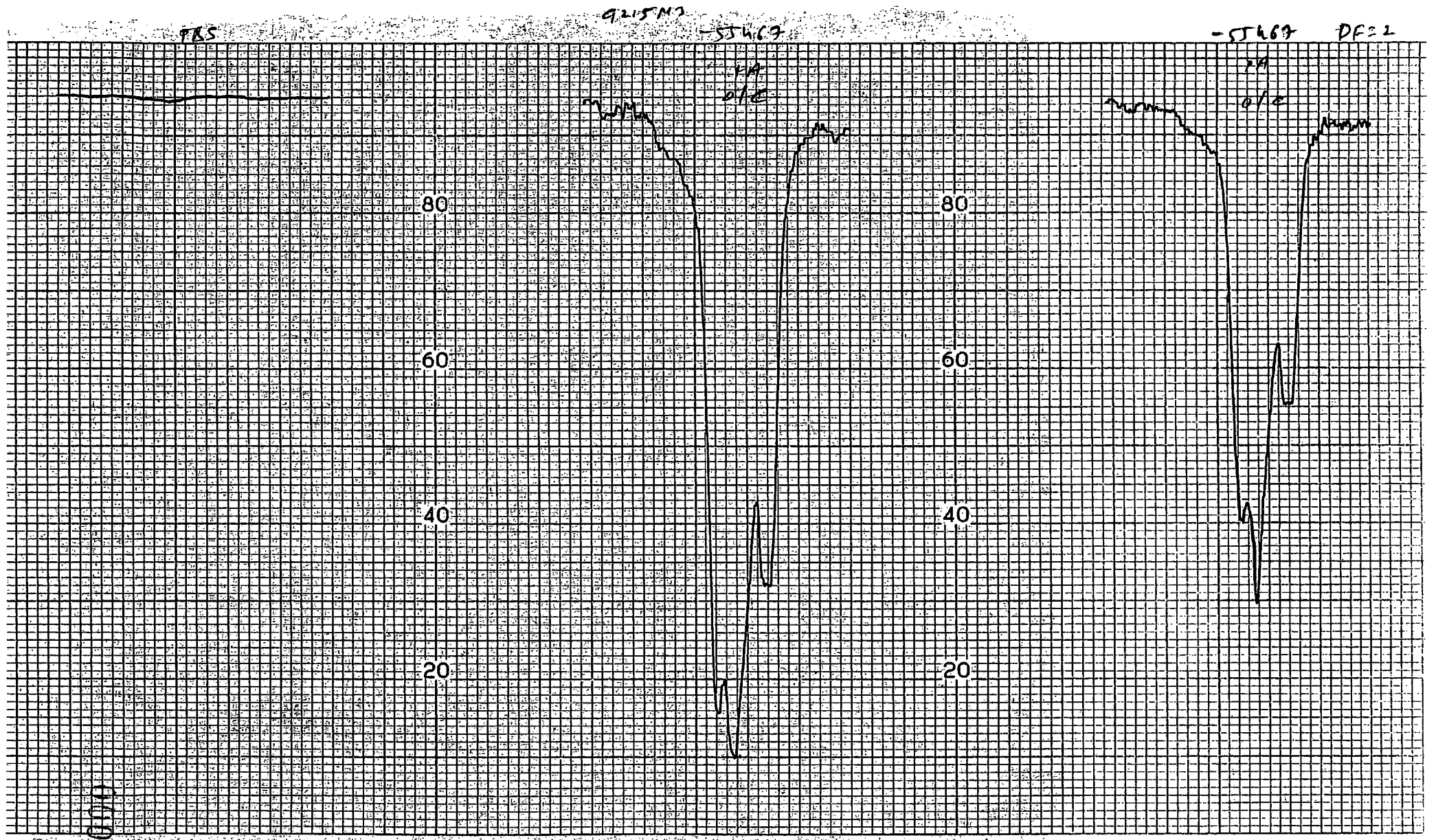

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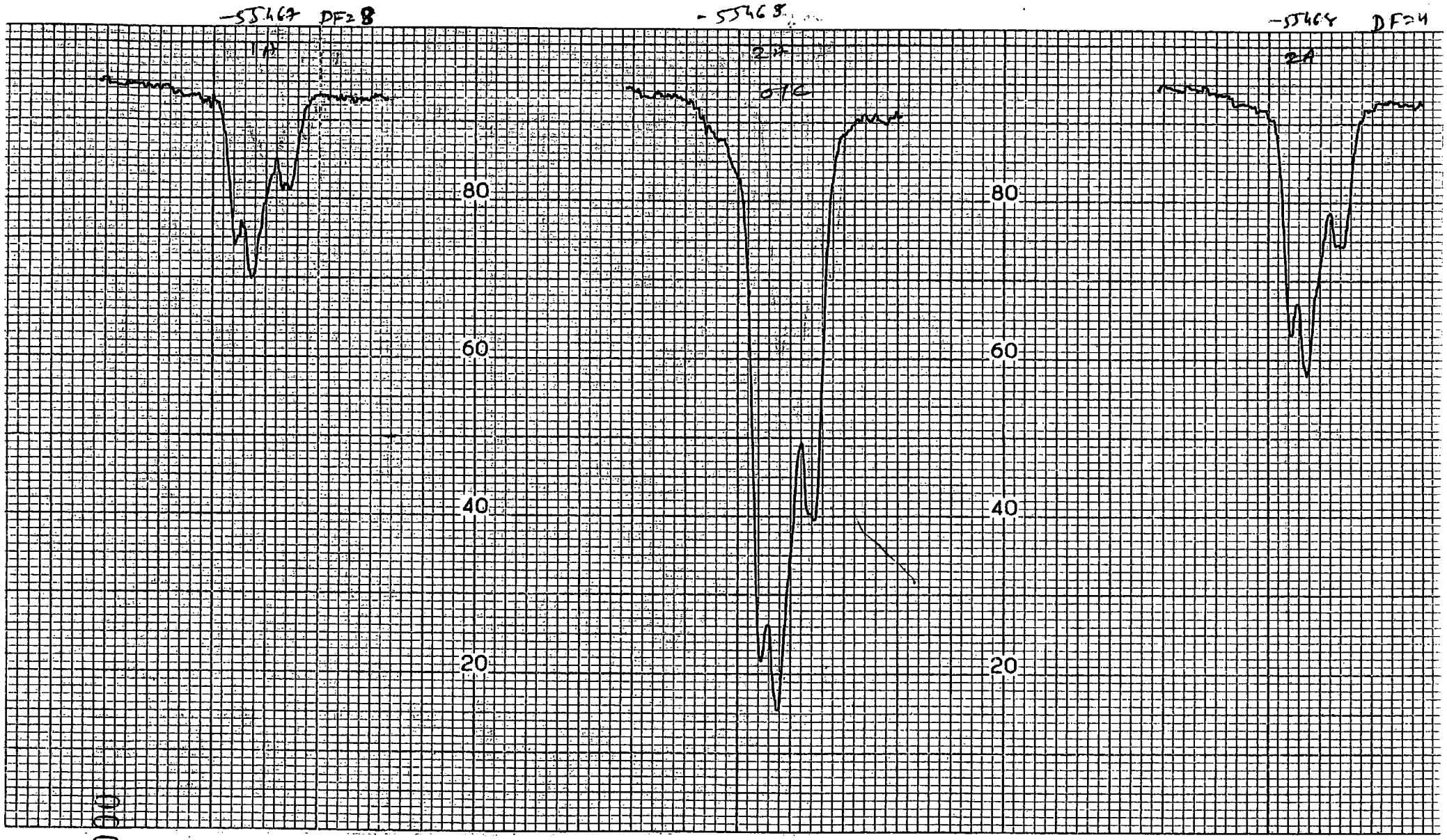

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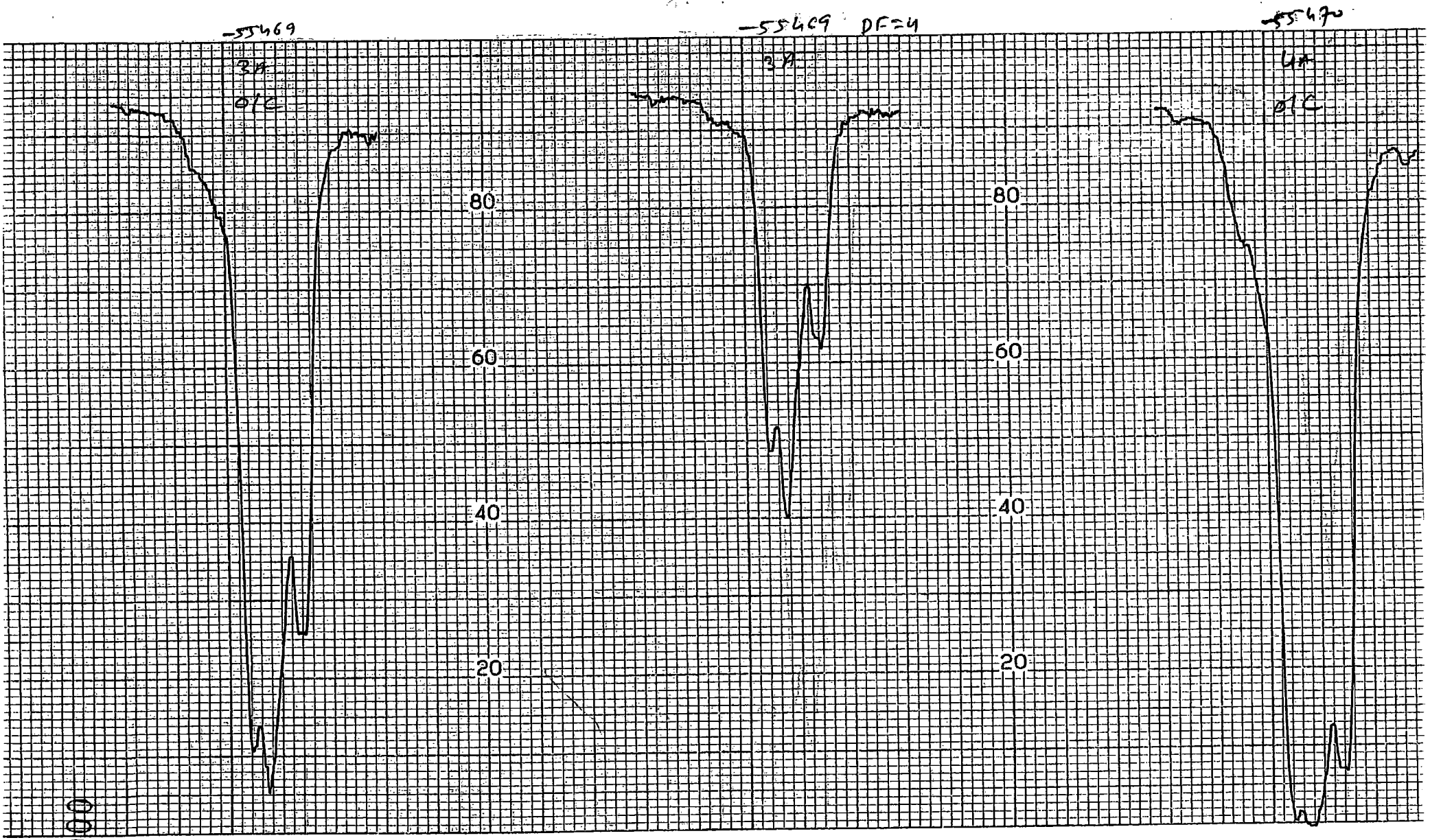

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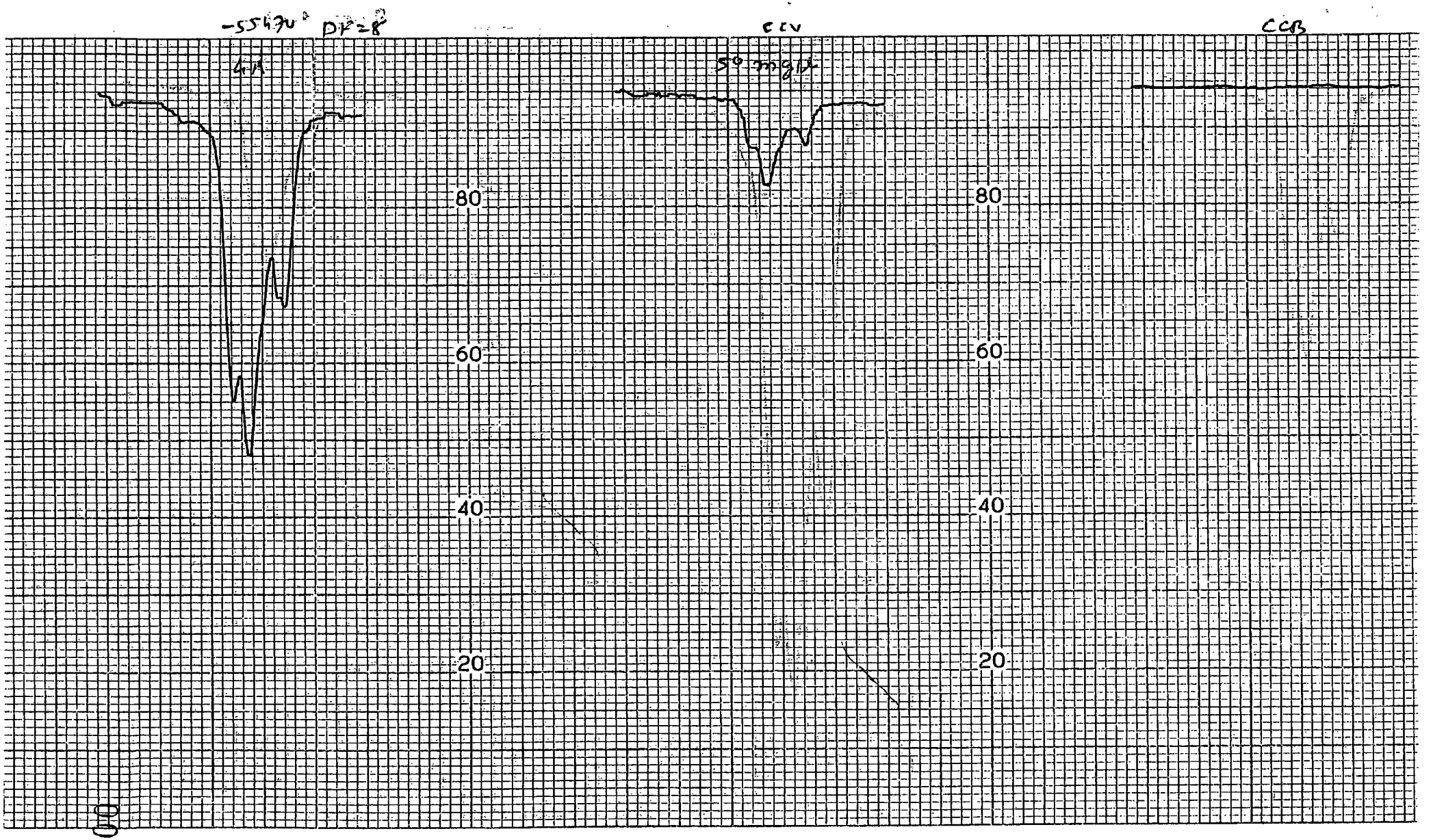

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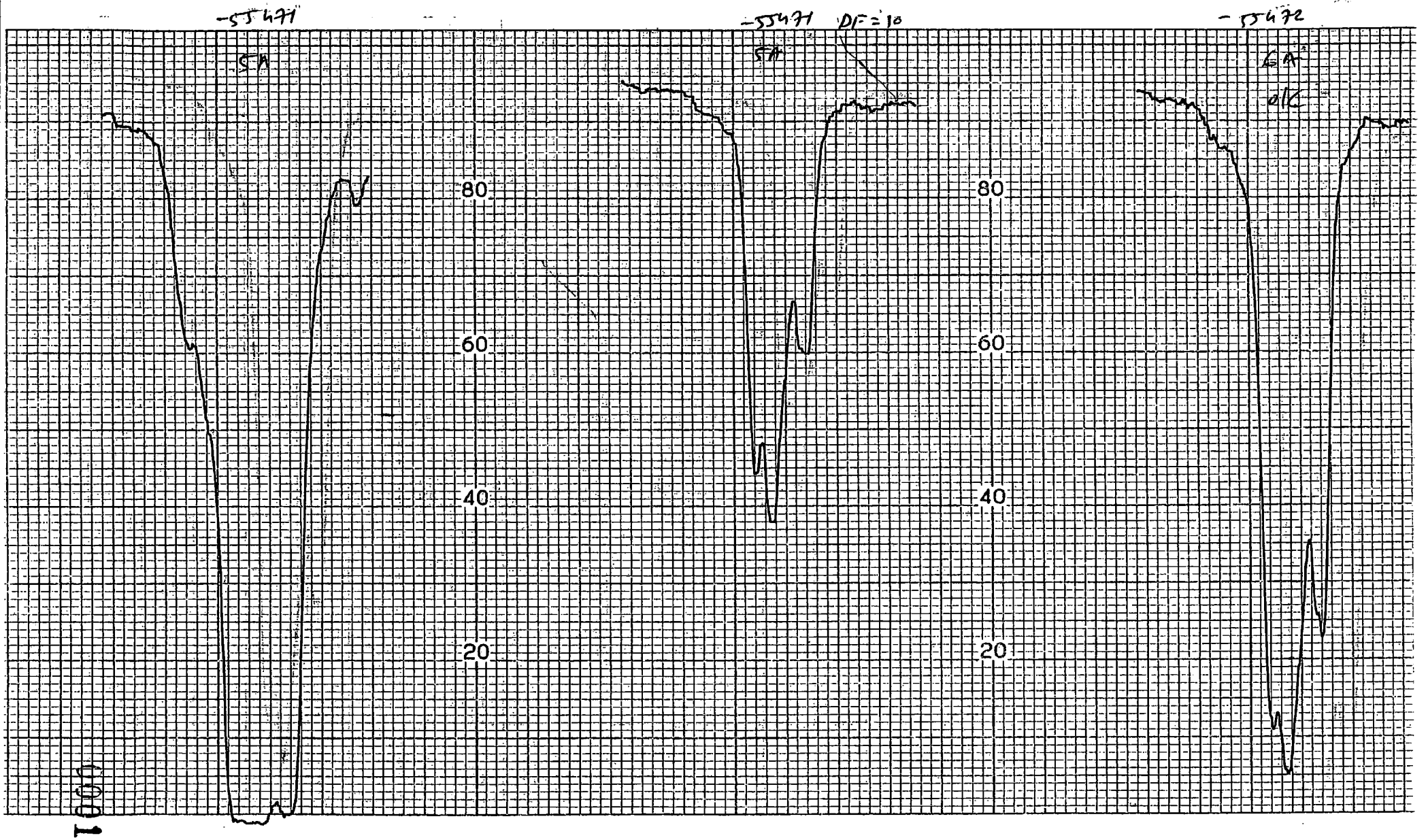

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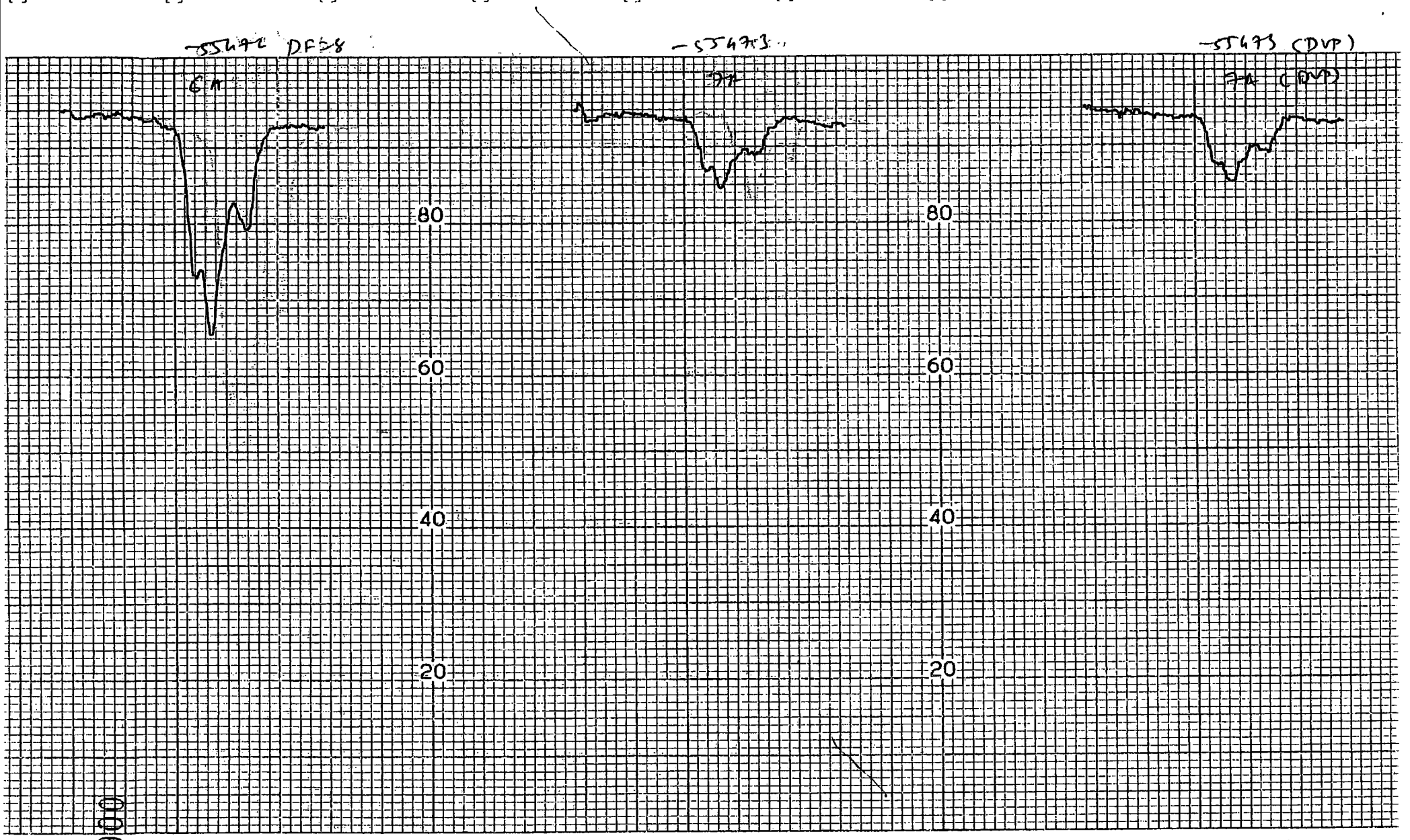

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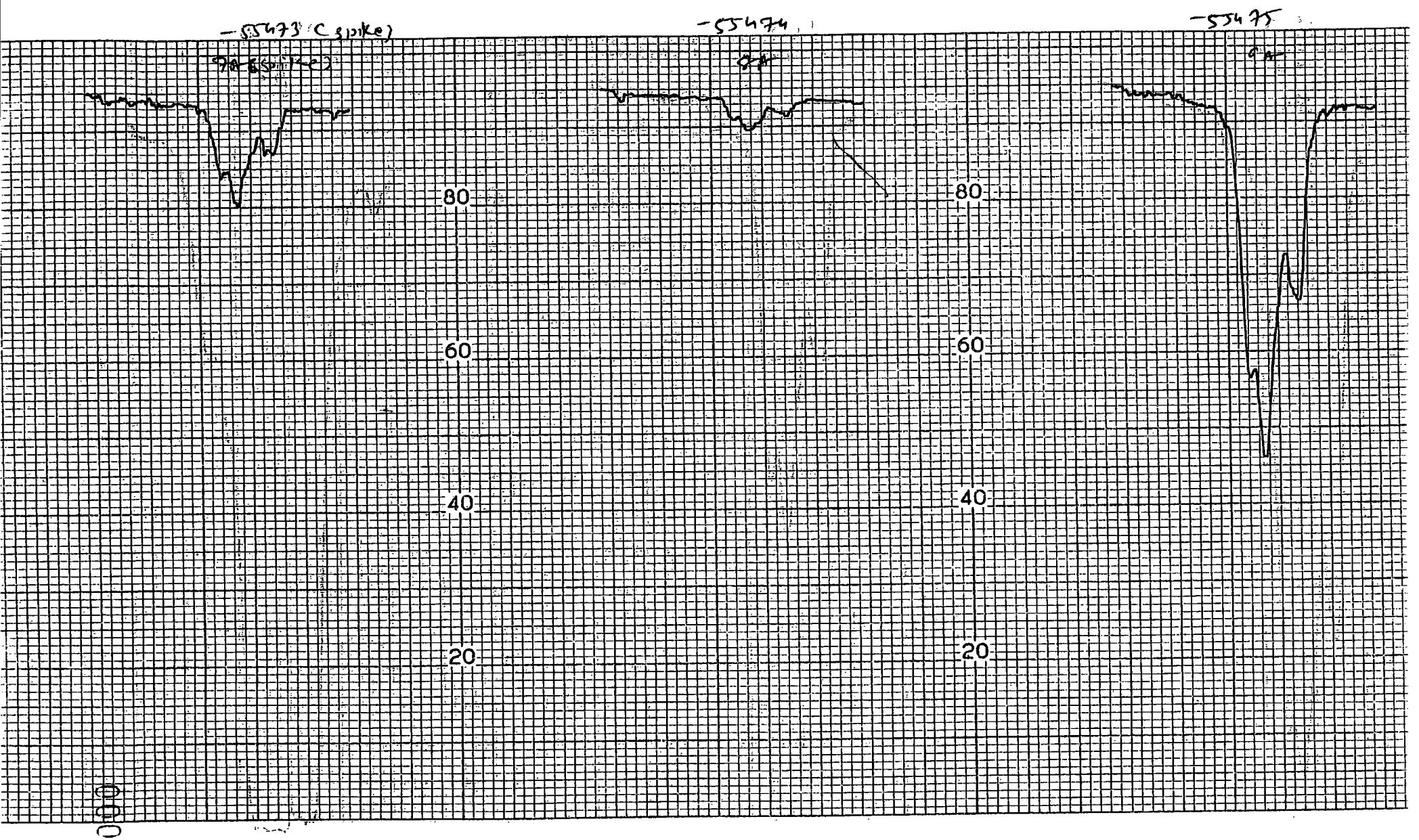

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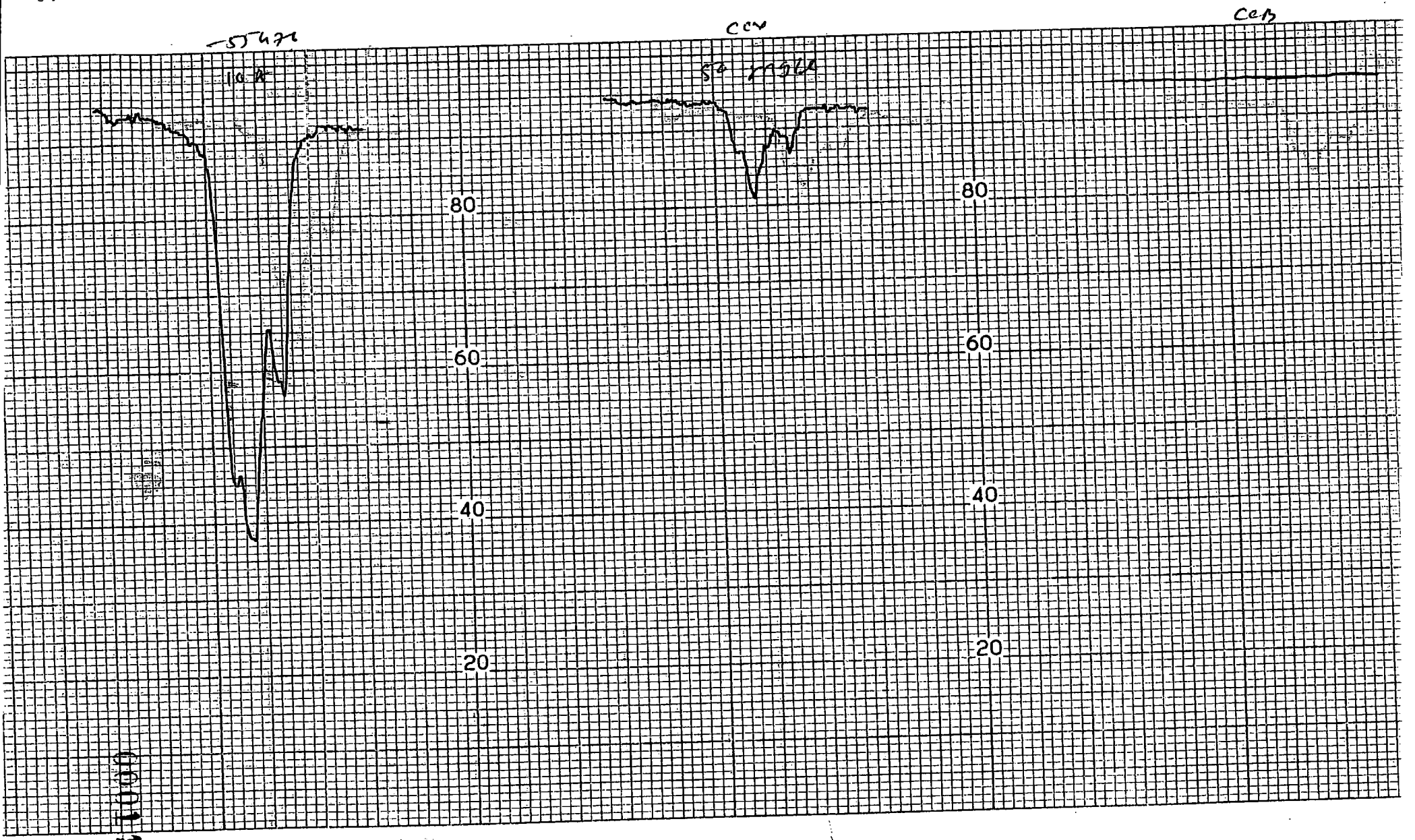

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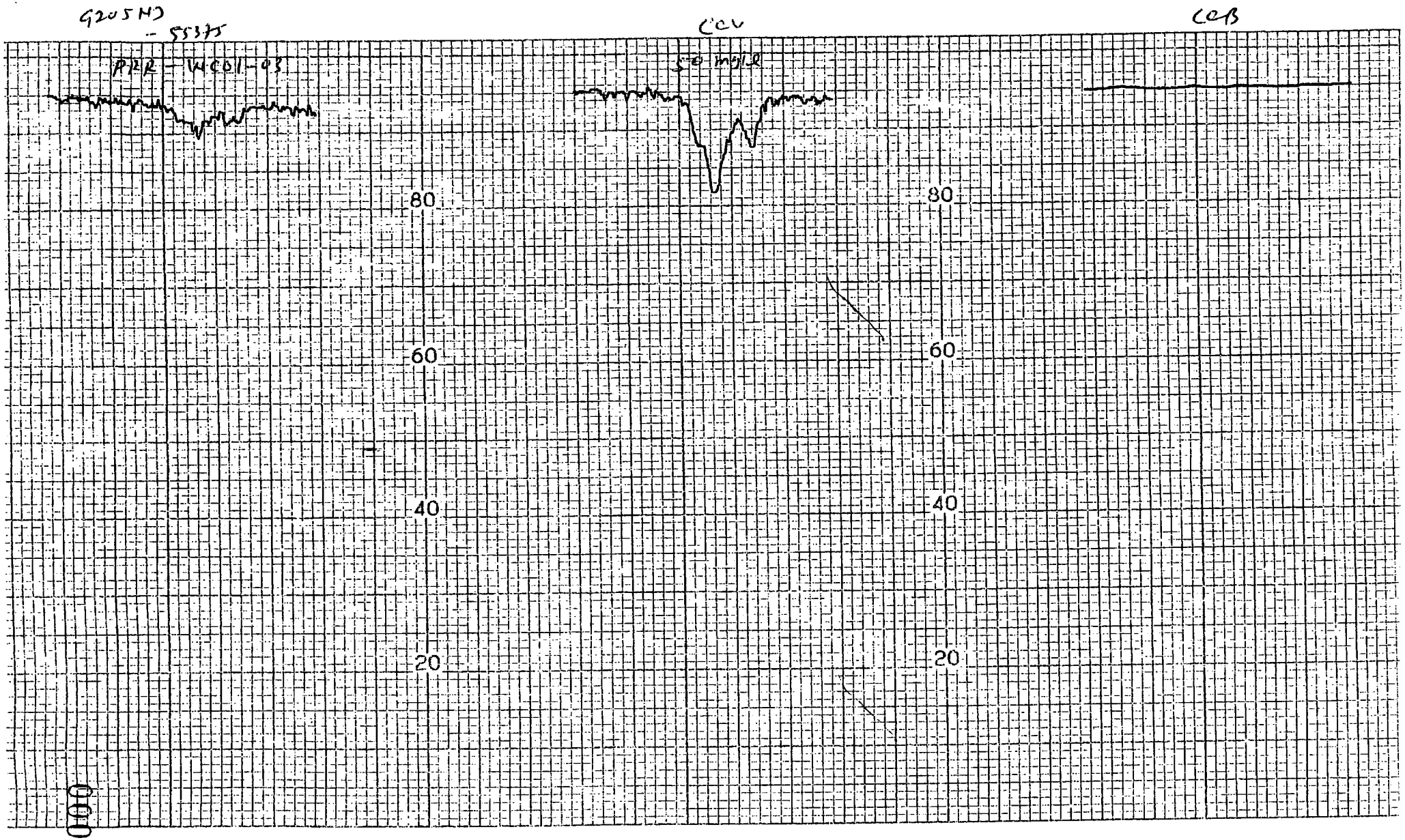

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