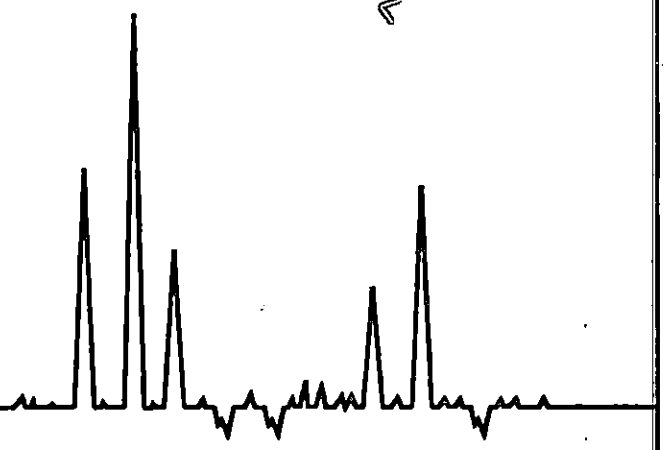
Analytical Data Package For

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 1
CONTRACT #: C003180
CASE #: SH195 SDG#: 0912

Water Samples
RECEIVED: September 13, 1995

VOLATILE DATA



SEPTEMBER 1995

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

ANALYTICAL DATA PACKAGE

TABLE OF CONTENTS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 1
CONTRACT: C003180
CASE: SH195
SAMPLES RECEIVED: 9/13/95
0912

DATA PACKAGE FOR CLIENT INFORMATION PURPOSES ONLY

I. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
SAMPLES RECEIVED 9/13/95
NYSDEC
CASE: SH195
SDG: 0912

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	OTHER
A84201	9525471	X	X			X	
A84202	9525472	X	X			X	
A84203	9525473	X	X			X	
A84204	9525474	X	X			X	
A84205	9525475	X	X			X	
A84206	9525476	X	X			X	
A84207 MS/MSD	9525477	X	X			X	

* Check Appropriate Boxes

* (CLP), Non-CLP (Please indicate year of protocol) 9/93
* TCL/TAL, HSL, Priority Pollutant

A 0003

SEMIVOLATILE SAMPLE PREPARATION AND ANALYSIS SUMMARY

SDG No.: NDEC-0912

SAMPLE ID	MATRIX	PROT-OCOL	EXTR. METHOD	AUX. CLEAN	DIL. FACT.	DATE COLLECTED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED
A84201	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/26/95
A84202	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/26/95
A84203	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/26/95
A84204	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84205	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84206	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84207	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84207 MS	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84207 MSD	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95

A 0004

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA ANALYSES
SAMPLES RECEIVED 9/13/95
CASE: SH195
SDG: 0912

LABORATORY SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECEIVED	LOW LEVEL MED. LEVEL	DATE * ANALYZED
A84201	WATER	09/12/95	09/13/95	LOW	09/17/95
A84202	"	"	"	"	"
A84203	"	"	"	"	"
A84204	"	"	"	"	"
A84205	"	"	"	"	"
A84206	"	"	"	"	"
A84207	"	"	"	"	"
A84207 MS	"	"	"	"	"
A84207 MSD	"	"	"	"	"

A 0005

SEMIVOLATILE SAMPLE PREPARATION AND ANALYSIS SUMMARY

SDG No.: NDEC-0912

SAMPLE ID	MATRIX	PROT-OCOL	EXTR. METHOD	AUX. CLEAN	DIL. FACT.	DATE COLLECTED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED
A84201	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/26/95
A84202	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/26/95
A84203	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/26/95
A84204	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84205	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84206	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84207	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84207 MS	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95
A84207 MSD	WATER	CLP	CONT	NONE	1	9/12/95	9/13/95	9/14/95	9/27/95

A 0006

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES
SAMPLES RECEIVED 9/13/95
NYSDEC
CASE: SH195
SDG: 0912

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE * ANALYZED
A84201	WATER	TCL METALS	09/13/95	09/95
A84202	"	""	"	"
A84203	"	"	"	"
A84204	"	"	"	"
A84205	"	"	"	"
A84206	"	"	"	"
A84207 MS/MSD	"	"	"	"

* SEE INDIVIDUAL RUN SHEETS FOR EXACT DATES.

II. CASE NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ANALYSES
CONTRACT: C003180
SDG: 0912
CASE: SH195
SAMPLES RECEIVED: 09/13/95

FOR SAMPLES: A84201
A84202
A84203
A84204
A84205
A84206
A84207 MS/MSD

The above samples were analyzed according to the requirements of the NYSDEC ASP Method 91-1 for the TCL volatile organics.

All quality control and calibration requirements were met except for the percent recovery of the spiked compounds in the matrix spike duplicate sample A84207. This high recovery caused the RPD's to be outside the QC limits.

Sample A84201 contained low levels (less than the CRDL) of all of the matrix spiked targeted analytes. This sample was analyzed immediately following the MS and MSD samples. The low levels may be due to carryover of these analytes.

I certify that this 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 hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: October 3, 1995

****
* *
* *
****
Joann M. Slavin
Quality Assurance Manager

H2M LABS, INC.

SDG NARRATIVE FOR BASE NEUTRAL/ACID EXTRACTABLES
CONTRACT: C003180
SDG: 0912
CASE: SH195
SAMPLES RECEIVED: 09/13/95

FOR SAMPLES:
A84201
A84202
A84203
A84204
A84205
A84206
A84207 MS/MSD

The above samples were analyzed according to the requirements of the NYSDEC ASP Method 91-2 for the base neutral acid extractable analytes. All quality control and calibration requirements were met except for the percent recovery of 4-nitrophenol in the MSB as well as the MS and MSD at ~ 100% recovery. The upper limit is 80%.

I certify that this 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 hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: October 3, 1995

****
* *
* *
****
Joann M. Slavin
Quality Assurance Manager

H2M LABS, INC.

SDG NARRATIVE FOR METALS ANALYSES
CONTRACT: C003180
SDG: 0912
CASE: SH195
SAMPLES RECEIVED: 9/13/95

FOR SAMPLES:	A84201	A84205
	A84202	A84206
	A84203	A84207 MS/MSD
	A84204	

ICP analysis was performed on a TJA61E Trace Analyzer using method 200.7 CLP-M. Mercury was analyzed on a Leeman PS200 using method 245.1 CLP-M..

The antimony, cadmium, chromium, cobalt, copper, lead, nickel, silver, vanadium and zinc matrix spike recoveries for sample A84207 (9525477) were not within the required control limit (75-125%). All results for the above analytes are reported flagged with an "N".

The following analyte ICP serial dilution results for sample A84207 (9525477) were not within the required control limit (10% difference): aluminum, barium, calcium, chromium, cobalt, copper, lead, magnesium, manganese, potassium, nickel, sodium, vanadium and zinc. All results for the above analytes are reported flagged with an "E".

All duplicate results for sample A84207 (9525477) were within the required control limits.

Samples A84204 (9525474) and A84207 (9525477) required an additional digestion. The initial digestate volume was insufficient due to multiple analysis attempts and dilutions.

There was insufficient sample volume to redigest the matrix spike and duplicate for sample A84207 (9525477). The initial digestate samples were used.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions derailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: October 11, 1995

****
* *
* *
****

Maureen Martin
Metals Supervisor

III. CONTRACT LAB SAMPLE INFORMATION SHEET

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY
ORIGINAL LOCATED:
In CSF of case: SH195 SDG: 0912
INIT: LMB DATE: 10/2/93

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2) 91-2
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1) 91-1
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
[illegible]	[illegible]	02

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
LMB	[illegible]	[illegible]	1700

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
5 H 1 9 5	0 9 1 2	A 1 9 1 2 C 1	☐ This Sample	☒ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER	FLOW GPD MGD

A 0013

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY
ORIGINAL LOCATED:
In CSF of CASE: JH195 SDG: 0912
INIT UMB DATE 10/12/95

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 5242 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 35. Other _____
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY: Jamie Fisher	TELEPHONE NUMBER: 518 [illegible] 0306	REGION NO: 04
CONTRACT LAB: [illegible]	COUNTY: [illegible]	SAMPLING DATE: 9/12/95
		MILITARY TIME: 1155

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
JH195	0912	AJH202	☐ This Sample	☒ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0014

Send This Sheet with Sample to Contract Lab

74-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY
ORIGINAL LOCATED:
In case of CASE: 5H195 SDG: 0912
INIT LMB DATE 10/12/95

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☒ 27. Metals—23 In Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 35. Other _____
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—23 InSoil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
James Archer	[illegible]	1-9

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
[illegible]	[illegible]	[illegible]	[illegible]

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
5H195	0912	A3512	☐ This Sample	☒ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of Inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0015

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY
ORIGINAL LOCATED:
In CSF
CASE: 20119 SDG: 0912
INIT UMB DATE 10/12/95

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☒ 27. Metals—23 In Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 35. Other _____
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—23 InSoil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
[illegible]	[illegible]	[illegible]

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
[illegible]	[illegible]	[illegible]	[illegible]

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
[illegible]	[illegible]	[illegible]	☐ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of Inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0016

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY
ORIGINAL LOCATED:
In CSF
DT CASE: SH195 SDG 0912
INIT UMB DATE 10/12/95

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
			☐ This Sample	☒ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0017

74-15-1 (4/91)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY
ORIGINAL LOCATED:
In CSF of
CASE: 32195 SDG: 0912
INIT UMB DATE 10/12/95

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☒ 27. Metals—23 in Water
- ☐ 28. Cyanide—Water
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 35. Other _____
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 33. Metals—23 inSoil/Sediment
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
			1413

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
			☐ This Sample	☒ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of Inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0018

Send This Sheet with Sample to Contract Lab

74-15-1 (4/91)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY
ORIGINAL LOCATED:
In CSF
of Case: SHAS SDG: 0912
INI LMB DATE 10/24/95

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—(USEPA 624 GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphorus
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☒ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☒ 27. Metals—23 In Water
- ☐ 33. Metals—23 InSoil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240-GC/MS)
- ☐ 41. BNA—(USEPA 8270-GC/MS)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
			☒ This Sample	☐ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of Inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

A 0019

IV. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 694-3040
FAX: 516-694-4122

Nº 2411

EXTERNAL CHAIN OF CUSTODY

PROJ. NO.

PROJECT NAME Bldg 40 SUNY Stony Brook NY 11790 NYSDEC

SAMPLERS: (Signature)/Client Jamie Ascher

DELIVERABLES: ~~AS-70~~ AC-70

Refrigerator #

SAMPLE CONTAINER DESCRIPTION →

TOTAL NO. OF CONTAINERS ↓

NOTES:

9525471-77

COPY
ORIGINAL LOCATED:
of CASE: SH195 SDG: 0912
INIT UMB DATE 10/12/95

DATE	TIME	MATRIX	FIELD I.D.	TOTAL NO. OF CONTAINERS	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. No.	REMARKS
9/12/95	1430	G.W	SH1950912A84207 X	9	4	4		1			ms/msd
9/12/95	1155	G.W	SH1950912A84202 X	5	2	2		1			
9/12/95	1230	G.W	SH1950912A84203 X	5	2	2		1			
9/12/95	1300	G.W	SH1950912A84201 X	5	2	2		1			
9/12/95	1320	G.W	SH1950912A84204 X	5	2	2		1			
9/12/95	1350	G.W	SH1950912A84205 X	5	2	2		1			
9/12/95	1410	G.W	SH1950912A84206 X	5	2	2		1			

Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
R.D 9-13			RD 9-13		
Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
Relinquished by: (Signature)	Date	time	Received for Laboratory by: (Signature)	Date	time
	9-13-95	1230		9-13-95	1230

PROJECT CONTACT:

PHONE NUMBER:

Discrepancies Between Sample Labels and COC Record? Y or N
NOTES:

LABORATORY USE ONLY

Samples were: Samples received
1) Shipped ___ or Hand Delivered ___ from ___
Airbill # ___
2) Ambient or Chilled
3) Recieved in Good Condition Y or N
4) Properly Preserved Y or N
5) Samples returned to lab. ___ hours from Collection

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) COC Record Present and Complete Upon Sample Rec't. Y or N

A 0021

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC ~~AS-70 AC-70~~ (~~Cat B~~) CLP Page 1 of 3

SDG #: 0912

case # SH195 9-13-95 SED 9/14/95

INTERNAL CHAIN OF CUSTODY

SAMPLES RECEIVED BY (LD) ~~S Dun~~ K. Diaz DATE 9-13-95 TIME 1230

SIGNATURE Kim Diaz

CLIENT I.D.	H2M LAB #	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
A84201	952547 1	D	2	TCL VOC's
A84202	72	↓	↓	↓
A84203	73	↓	↓	↓
A84204	74	↓	↓	↓
A84205	75	↓	↓	↓
A84206	76	↓	↓	↓
A84207 MS/MSD	77	↓	4	↓

COPY
ORIGINAL LOCATED:
HQ Bldg # 88
INITIAL UMB DATE 10/12/95

LSD 9-13-95

PAGE No: 000097 0022

HEM LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC

SDG #: 0912

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	SAMPLE I.D. NO. AND BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
9/13/95	1830	Sign	Sign	All D	Analysis	
9/15/95	1830	Sign	Sign	All D	Analysis	
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
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		Sign	Sign			
		Sign	Sign			

COPY
ORIGINAL LOCATED:
TD CCC Book # 88
INIT LMB DATE 10/12/95

PAGE No: 000098

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC AS-70 AC-70

SDG #: 0912 (~~Cat B~~) CLP JED 9/14/95

Case# SH195

INTERNAL CHAIN OF CUSTODY

SAMPLES RECEIVED BY R.Diaz DATE 9.13.95 TIME 1230

SIGNATURE Richard Diaz

CLIENT I.D.	H2M LAB #	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
A84201	952571	G	2	BN/AETCL
A84202	72	↓	↓	↓
A84203	73			
A84204	74			
A84205	75			
A84206	76		↓	
A84207 MS/MSD	77	↓	4	↓

550 9-13-95

COPY
ORIGINAL LOCATED:
LDC Book # 91
INIT UMB DATE 10/12/95

PAGE No: 000034

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC

SDG #: 0912

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	SAMPLE I.D. NO. AND BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
9/13/95	17.0	Sign	Sign M. Crespi	All G	Prep	
9/14/95	10:25	Sign M. Crespi	Sign	All G	Extractions	
9/15/95	2010	Sign	Sign G. Dearmeade	ALL G	ANALYSIS	
9/25/95	18.5	Sign G. Dearmeade	Sign T. Altmen	all G (E)	analyses	
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
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		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			

COPY
ORIGINAL LOCATED:
In CLC Book #9
INIT LMB DATE 10/12/95

PAGE No: C0v035

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC ~~AS-70~~ AC-70 Page 1 of 3

SDG #: 0912

Case # 5H195

~~(Cat B)~~ CLP

SED 9/14/95

INTERNAL CHAIN OF CUSTODY

SAMPLES RECEIVED BY R. Diaz DATE 9.13.95 TIME 1230

SIGNATURE Rich Diaz

folder ✓

C

CLIENT I.D.	H2M LAB #	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
A84201	9525471	EN	1	TCL Metals
A84202	72			
A84203	73			
A84204	74			
A84205	75			
A84206	76			
* A84207 MS/MSD	77		*	

* No spare sample for MS/MSD

LSO 9-13-95

COPY
ORIGINAL LOCATED
In Cdr Book # 89
INIT LMB DATE 10/12/95

PAGE No: 000100

A 0026

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC

JOG #: C912

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	SAMPLE I.D. NO. AND BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
7/13/95	1600	Sign	Sign	All En	analysis	
7/15/95	7:20	Sign	Sign	all En	Fl Digs	
7/15/95	12:55	Sign	Sign	all En / Fl Digs	storage	
9/15/95	14:00	Sign	Sign	All Fl digs	JM 9/15 storage analysis	
9/15/95	16:45	Sign	Sign Cabinet C	All Fl digs	storage	
9/16/95	6:30	Sign Cabinet C	Sign	All Fl digs	analysis	
9/16/95	15:00	Sign	Sign Cabinet C	All Fl dig	storage	
9/18/95	6:45	Sign	Sign	all En	Hg prep	
9/18/95	9:10	Sign	Sign	all En	storage	
9/19/95	7:00	Sign	Sign	all BOD	Hg analysis	
9/20/95	13:00	Sign	Sign	all fl digs	TCP Trace	
9/20/95	16:30	Sign	Sign Cabinet B	All fl digs	Storage	
9/21/95	7:40	Sign	Sign	En 9525474 5477	Redig	
9/21/95	12:15	Sign	Sign	En 9525474 5477 / Fl Redigs	Storage	
9/22/95	12:30	Sign	Sign	All fl redigs.	ICP (Trace)	
9/22/95	17:00	Sign	Sign Cabinet B	All fl redigs.	Storage	
9/28/95	12:30	Sign Cabinet B	Sign	9525477 fl. redig	ICP (Trace)	
9/28/95	15:30	Sign	Sign Cabinet B	9525477 fl redig	Storage	
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			

COPY
ORIGINAL LOCATED:
12 ea Box # 84
INIT: UMC
DATE: 10/14/95

PAGE No: 000101

H2M LABS, INC.

SAMPLE RECEIPT NON COMPLIANCE REPORT
H2M LABS, INC.

Client: NYS DEC - Region 1 SDG #: 0912

Date of Sample Receipt: 9-13-95 Received By: K. Diaz

Problems with Samples:

___ 1. Insufficient quantity received for proper analysis.
___ 2. Sample received broken or leaking.
___ 3. Sample received improperly preserved.
___ 4. Sample received in improper container.
___ 5. Holding time exceeded at receipt.
___ 6. Sample I.D. missing or incorrect on container.
___ 7. Multi-layer sample.
___ 8. No MS/MSD designated.
___ 9. Sample received out of temp. specs (4°C +/- 2°). Recorded temperature_____°C.
___ 10. Other_____

Problems with Chain of Custody (COC):

___ 1. Sample received without COC form.
___ 2. Custody tape broken.
___ 3. COC form not relinquished by client.
___ 4. COC form not properly signed by client.
___ 5. Sample information on container does not match sample information on COC form.
___ 6. Other_____

COPY
ORIGINAL LOCATED:
In CSF
OF CASE: SH95 SDG 0912
INIT UMB DATE 10/12/95

Notes: 1 Liter Pour for metals MS/MSD - MAW said it is OK. Then will run the sample on the trace analyzer * No space documented in internal COC *

4 Liters for BNAE MS/MSD - S.S. said this is enough sample to do analysis

Client Contact:_____

(A) Notification procedure: ___ phone ___ fax ___ writing ___ other

Notified By:_____ Date / Time:_____

Corrective Action:_____

H2M LABS, INC.

V. ANALYTICAL DATA PACKAGES:

A. VOLATILES
B. SEMI-VOLATILES
C. METALS

CLSC. 2H173
SDG. 0912

H2M LABS, INC.

VOLATILE ORGANICS

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H2M LABS, INC.

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B. MS/MSD FORM
C. MSB FORM
D. METHOD BLANK FORM
E. GC/MS TUNING FORM
F. INTERNAL STANDARD AREA AND RT SUMMARY
G. INSTRUMENT DETECTION LIMITS

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK16	104	96	100	0
02	A84207	104	98	98	0
03	VBLK17	100	101	102	0
04	MSB17	97	110	109	0
05	A84207MS	93	105	100	0
06	A84207MSD	102	100	101	0
07	A84201	98	107	106	0
08	A84202	98	110	110	0
09	A84203	102	100	101	0
10	A84204	100	102	100	0
11	A85205	100	102	99	0
12	A84206	101	100	101	0

				QC LIMITS
SMC1	(DCE)	=	1,2-Dichloroethane-d4	(76-114)
SMC2	(TOL)	=	Toluene-d8	(88-110)
SMC3	(BFB)	=	Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER MATRIX SPIKE BLANK RECOVERY

Lab Name: H2M LABS, INC Contract: C003180

Lab Code: 10478 Case No.: E395 SAS No.: SDG No.: DEC0912

Matrix Spike - EPA Sample No.: MSB9/17/95 is09/26/95

COMPOUND	SPIKE ADDED (ug/L)		MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50		43	86	(61-145)
Trichloroethene	50		46	92	(71-120)
Benzene	50		44	88	(76-127)
Toluene	50		47	94	(76-125)
Chlorobenzene	50		54	108	(75-130)

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

Comments _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix Spike - EPA Sample No.: A84207

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0.0	51	102	61 - 145
Trichloroethene	50	0.0	50	100	71 - 120
Benzene	50	0.0	49	98	76 - 127
Toluene	50	0.0	51	102	76 - 125
Chlorobenzene	50	0.0	53	106	75 - 130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	60	120	16 *	14	61 - 145
Trichloroethene	50	64	128 *	25 *	14	71 - 120
Benzene	50	63	126	25 *	11	76 - 127
Toluene	50	63	126 *	21 *	13	76 - 125
Chlorobenzene	50	65	130	20 *	13	75 - 130

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

* Values outside of QC limits

RPD: 5 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK16

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Lab File ID: P01214.D Lab Sample ID: vblk9/10

Date Analyzed: 09/16/95 Time Analyzed: 13:33

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: H5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	A84207	9525477	P01222.D	17:06

COMMENTS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK17

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Lab File ID: P01227.D Lab Sample ID: VBLK17 BLANK

Date Analyzed: 09/17/95 Time Analyzed: 12:18

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: H5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MSB17	MSB17	P01228.D	12:45
02	A84207MS	9525477MS	P01229.D	13:14
03	A84207MSD	9525477MSD	P01230.D	13:40
04	A84201	9525471	P01231.D	14:07
05	A84202	9525472	P01232.D	14:34
06	A84203	9525473	P01233.D	15:03
07	A84204	9525474	P01234.D	15:30
08	A85205	9525475	P01235.D	15:56
09	A84206	9525476	P01236.D	16:23

COMMENTS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Lab File ID: P01022.D BFB Injection Date: 08/23/95

Instrument ID: H5970 BFB Injection Time: 11:19

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.3
75	30.0 - 60.0% of mass 95	56.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	78.4
175	5.0 - 9.0% of mass 174	6.5 (8.3)1
176	95.0 - 101.0% of mass 174	78.7 (100.4)1
177	5.0 - 9.0% of mass 176	5.3 (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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSDT050	P01025.D	08/23/95	13:23
02	VSTD010	VSTD010	P01029.D	08/23/95	15:16
03	VSTD020	VSTD020	P01030.D	08/23/95	15:40
04	VSTD100	VSTD100	P01031.D	08/23/95	16:04
05	VSTD200	VSTD200	P01032.D	08/23/95	16:27

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Lab File ID: P01022.D BFB Injection Date: 08/23/95

Instrument ID: H5970 BFB Injection Time: 11:19

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.0
75	30.0 - 60.0% of mass 95	56.0
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	50.0 - 120.0% of mass 95	78.0
175	5.0 - 9.0% of mass 174	6.0 (7.7)1
176	95.0 - 101.0% of mass 174	79.0 (101.3)1
177	5.0 - 9.0% of mass 176	5.0 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSDT050	P01025.D	08/23/95	13:23
02	VSTD010	VSTD010	P01029.D	08/23/95	15:16
03	VSTD020	VSTD020	P01030.D	08/23/95	15:40
04	VSTD100	VSTD100	P01031.D	08/23/95	16:04
05	VSTD200	VSTD200	P01032.D	08/23/95	16:27

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Lab File ID: P01212.D BFB Injection Date: 09/16/95

Instrument ID: H5970 BFB Injection Time: 10:55

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.0
75	30.0 - 60.0% of mass 95	57.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.3
175	5.0 - 9.0% of mass 174	5.8 (8.2)1
176	95.0 - 101.0% of mass 174	70.8 (99.3)1
177	5.0 - 9.0% of mass 176	5.1 (7.2)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	STANDARD	P01213.D	09/16/95	12:34
02	VBLK16	VBLK9/10	P01214.D	09/16/95	13:33
03	A84207	9525477	P01222.D	09/16/95	17:06

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Lab File ID: P01225.D BFB Injection Date: 09/17/95

Instrument ID: H5970 BFB Injection Time: 11:11

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.4
75	30.0 - 60.0% of mass 95	58.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.4
175	5.0 - 9.0% of mass 174	5.7 (8.2)1
176	95.0 - 101.0% of mass 174	69.9 (100.8)1
177	5.0 - 9.0% of mass 176	5.1 (7.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	STANDARD 50PPB	P01226.D	09/17/95	11:32
02	VBLK17	VBLK17 BLANK	P01227.D	09/17/95	12:18
03	MSB17	MSB17	P01228.D	09/17/95	12:45
04	A84207MS	9525477MS	P01229.D	09/17/95	13:14
05	A84207MSD	9525477MSD	P01230.D	09/17/95	13:40
06	A84201	9525471	P01231.D	09/17/95	14:07
07	A84202	9525472	P01232.D	09/17/95	14:34
08	A84203	9525473	P01233.D	09/17/95	15:03
09	A84204	9525474	P01234.D	09/17/95	15:30
10	A85205	9525475	P01235.D	09/17/95	15:56
11	A84206	9525476	P01236.D	09/17/95	16:23

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Lab File ID (Standard): P01226.D Date Analyzed: 09/17/95

Instrument ID: H5970 Time Analyzed: 11:32

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR ST	45513	6.71	176400	8.08	138420	12.98
	UPPER LIMIT	91026	6.21	352800	7.58	276840	12.48
	LOWER LIMI	22757	7.21	88200	8.58	69210	13.48
	EPA SAMPLE NO.						
01	VBLK17	46154	6.71	170528	8.07	130545	12.97
02	MSB17	48005	6.70	164959	8.06	116224	12.97
03	A84207MS	44395	6.71	179111	8.07	131797	12.98
04	A84207MSD	47901	6.69	184553	8.07	140733	12.98
05	A84201	44389	6.70	162866	8.07	118069	12.97
06	A84202	46708	6.69	171274	8.07	120308	12.96
07	A84203	48963	6.70	181342	8.07	142798	12.96
08	A84204	48384	6.72	183437	8.09	139670	12.99
09	A85205	48658	6.73	187754	8.10	142258	13.00
10	A84206	50406	6.72	195236	8.09	150815	13.00

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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 to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

V 0012

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Lab File ID (Standard): P01213.D Date Analyzed: 09/16/95

Instrument ID: H5970 Time Analyzed: 12:34

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR ST	45966	6.70	184556	8.07	145963	12.99
	UPPER LIMIT	91932	6.20	369112	7.57	291926	12.49
	LOWER LIMI	22983	7.20	92278	8.57	72982	13.49
	EPA SAMPLE NO.						
01	VBLK16	50957	6.69	198234	8.07	160985	12.98
02	A84207	47568	6.73	183383	8.11	143713	13.00

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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 to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

II. SAMPLE DATA PACKAGE FOR VOLATILE ORGANICS

A. REPORTS
B. RAW DATA

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

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

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330\ U) \times df}{D} \quad \text{where } D = \frac{100 - \%\ \text{moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100-24}{100} = 0.76$

$$\frac{(330\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, 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 N code is not used.

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

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84201

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525471

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01231.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	2	J
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	2	J
71-43-2	Benzene	2	J
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A84201

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525471

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01231.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

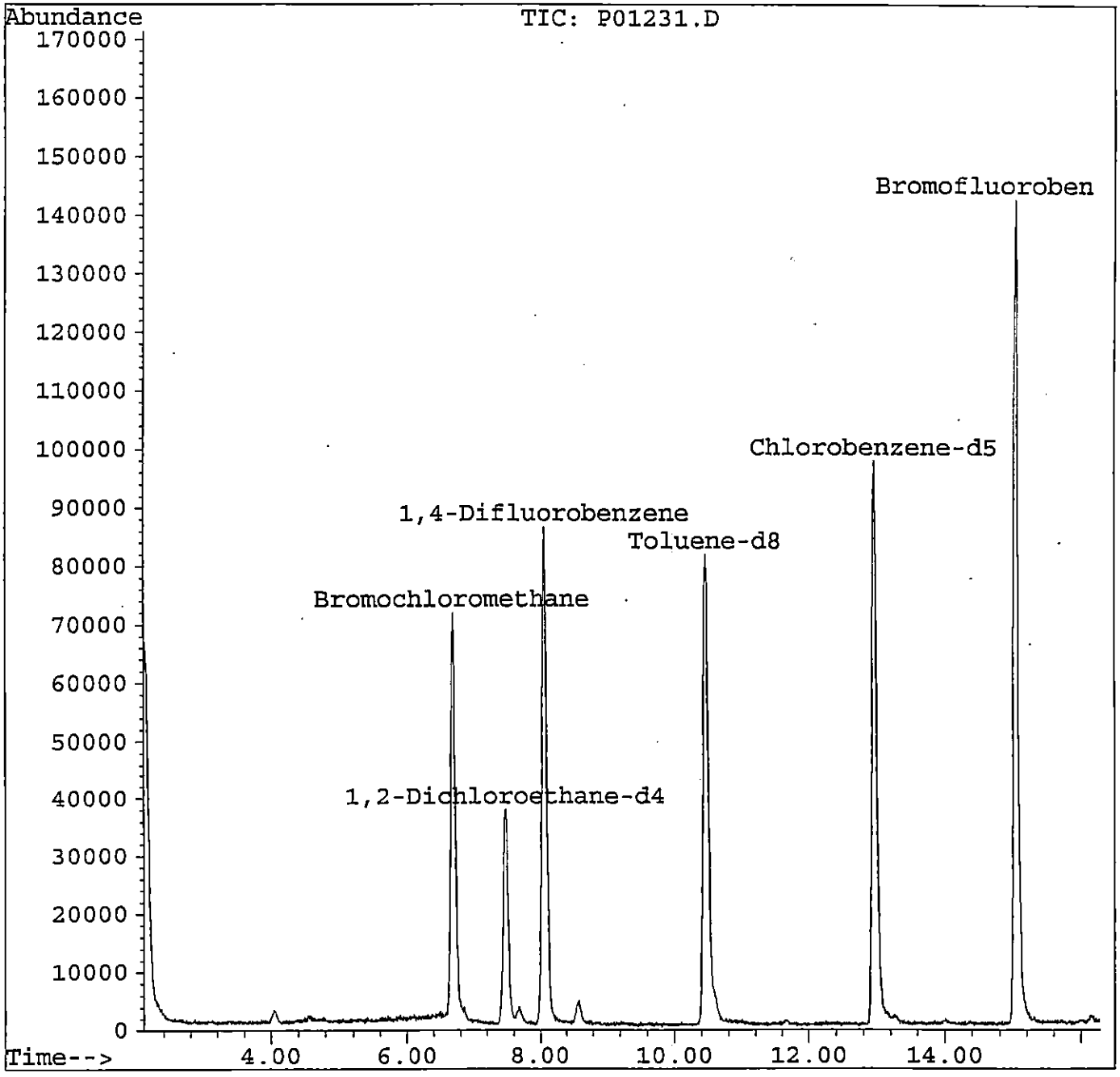
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01231.D
Acq On : 17 Sep 95 2:07 pm
Sample : 9525471 A84201
Misc : 9525471
Quant Time: Sep 17 14:24 1995

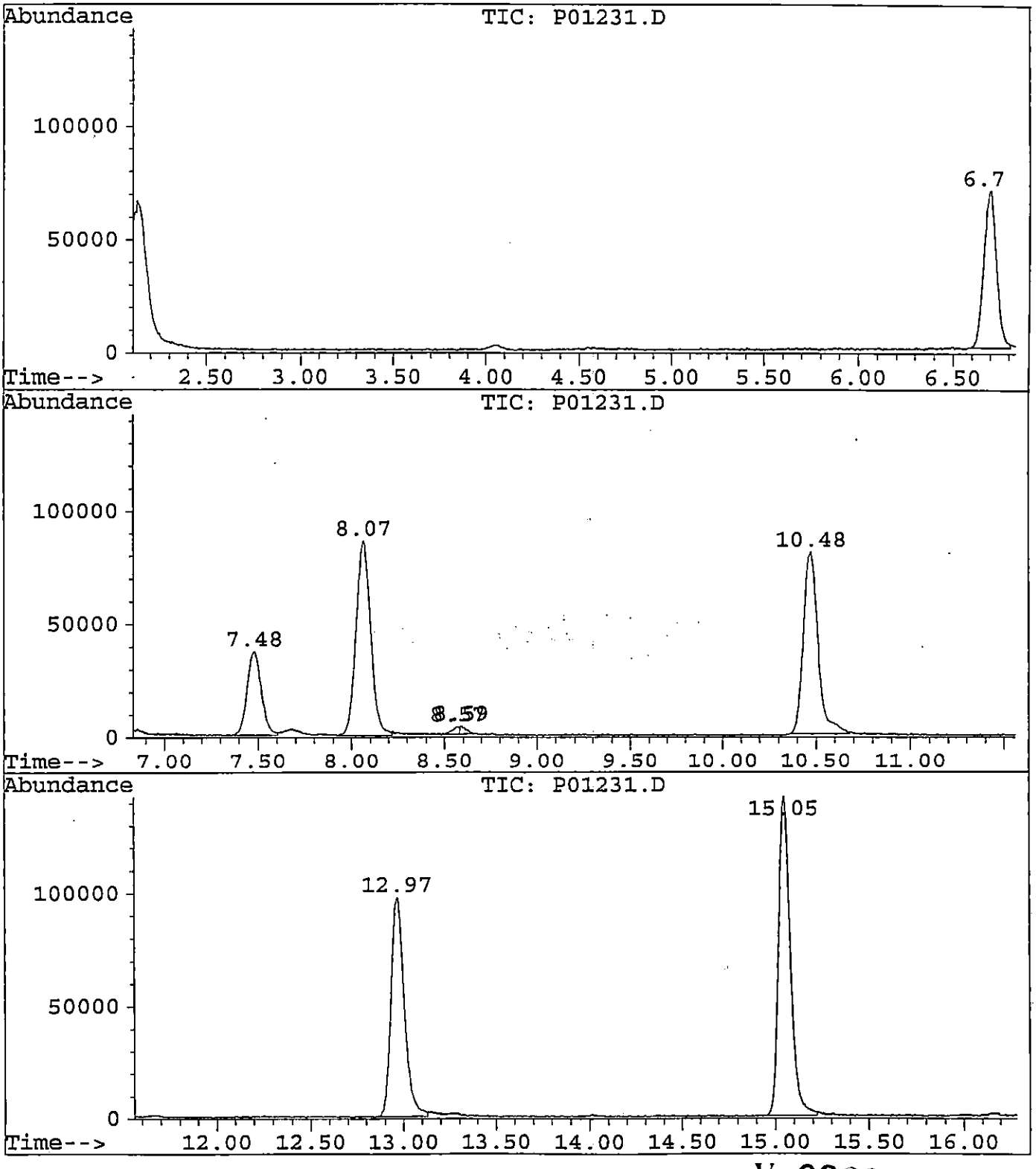
Vial: 9
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0019

File : C:\HPCHEM\1\DATA\P01231.D
Operator : MSD
Acquired : 17 Sep 95 14:07 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 9525471 A84201
Misc Info : 9525471
Vial Number: 9



V 0020

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01231.D
Acq On : 17 Sep 95 14:07
Sample : 9525471 A84201
Misc : 9525471
Quant Time: Sep 17 14:24 1995

Vial: 9
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.70	128	44389	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	8.07	114	162866	50.00	UG/L	-0.01
33) Chlorobenzene-d5	12.97	117	118069	50.00	UG/L	-0.01
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.48	65	71004	49.15	UG/L	
34) Toluene-d8	10.48	98	140754	53.66	UG/L	
43) Bromofluorobenzene	15.04	95	121521	52.83	UG/L	#
Target Compounds						Qvalue
6) 1,1-Dichloroethene	4.04	96	1814	1.50	UG/L	# 64
24) Trichloroethene	8.59	130	2650	1.48	UG/L	90
25) Benzene	7.67	78	4592	1.60	UG/L	93
36) Toluene	10.60	91	6312	2.10	UG/L	93
39) Chlorobenzene	13.04	112	5608	2.21	UG/L	92

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

V 0021

TIC: P01231.D

9525471 A84201

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	6.699	rBV	0.209	329213	6.598	6.807
2	7.484	rBV	0.240	191228	7.363	7.604
3	8.066	rBV	0.297	467611	7.920	8.217
4	8.572	rBV	0.082	8953	8.496	8.578
5	8.591	rVB	0.082	8125	8.578	8.660
6	10.476	rBV	0.310	441294	10.369	10.679
7	12.969	rBV	0.253	477932	12.874	13.127
8	15.050	rBV	0.272	627159	14.949	15.221

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P01231.D
Acq On : 17 Sep 95 14:07
Sample : 9525471 A84201
Misc : 9525471

Vial: 9
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

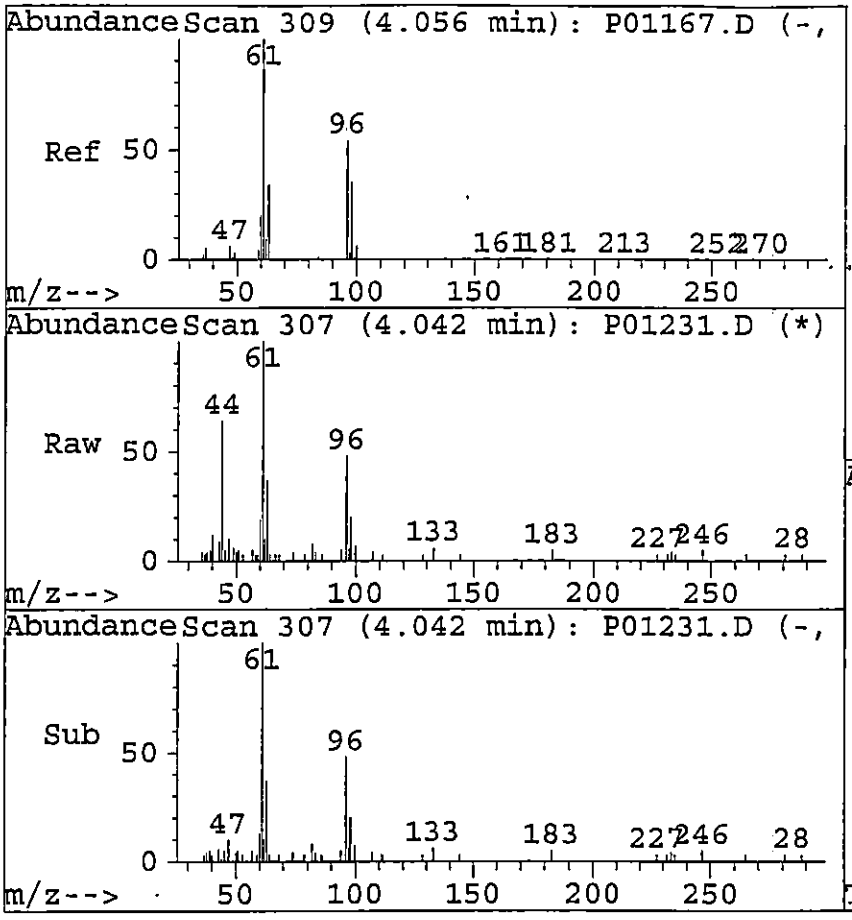
V 0023

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 17 Sep 95 14:07
Data File: C:\HPCHEM\1\DATA\P01231.D
Name: 9525471 A84201
Misc: 9525471
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

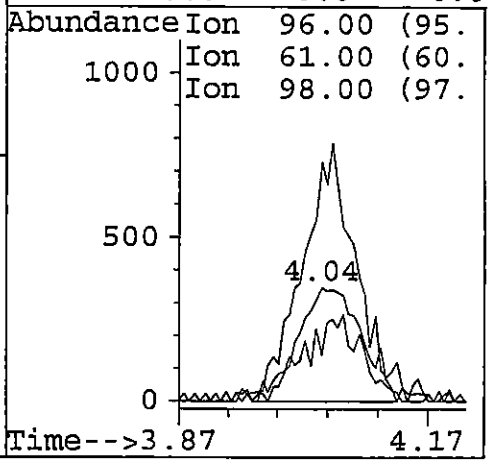
V 0024

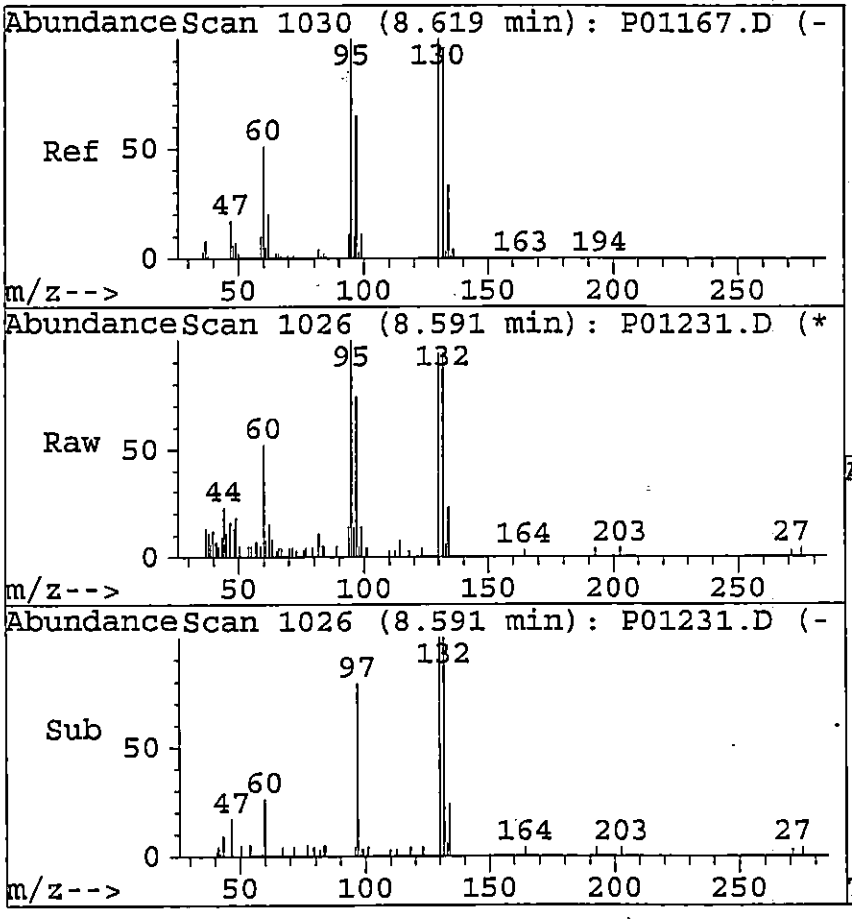


#6
1,1-Dichloroethene
Concen: 1.50 UG/L
RT: 4.04 min Scan# 307
Delta R.T. 0.02 min
Lab File: P01231.D
Acq: 17 Sep 95 2:07 pm

Tgt Ion:96 Resp: 1814

Ion	Ratio	Lower	Upper
96	100		
61	201.1	133.2	173.2#
98	41.1	47.0	87.0#
0	0.0	0.0	0.0

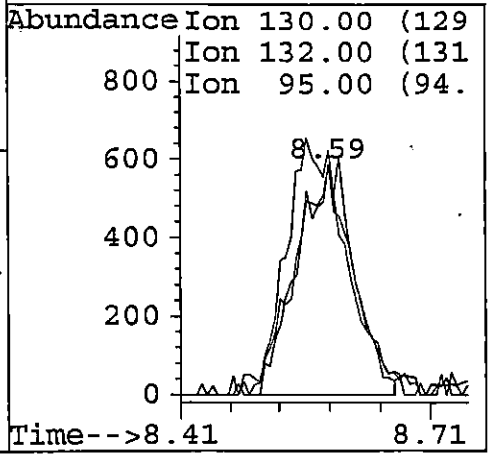




#24
Trichloroethene
Concen: 1.48 UG/L
RT: 8.59 min Scan# 1026
Delta R.T. -0.00 min
Lab File: P01231.D
Acq: 17 Sep 95 2:07 pm

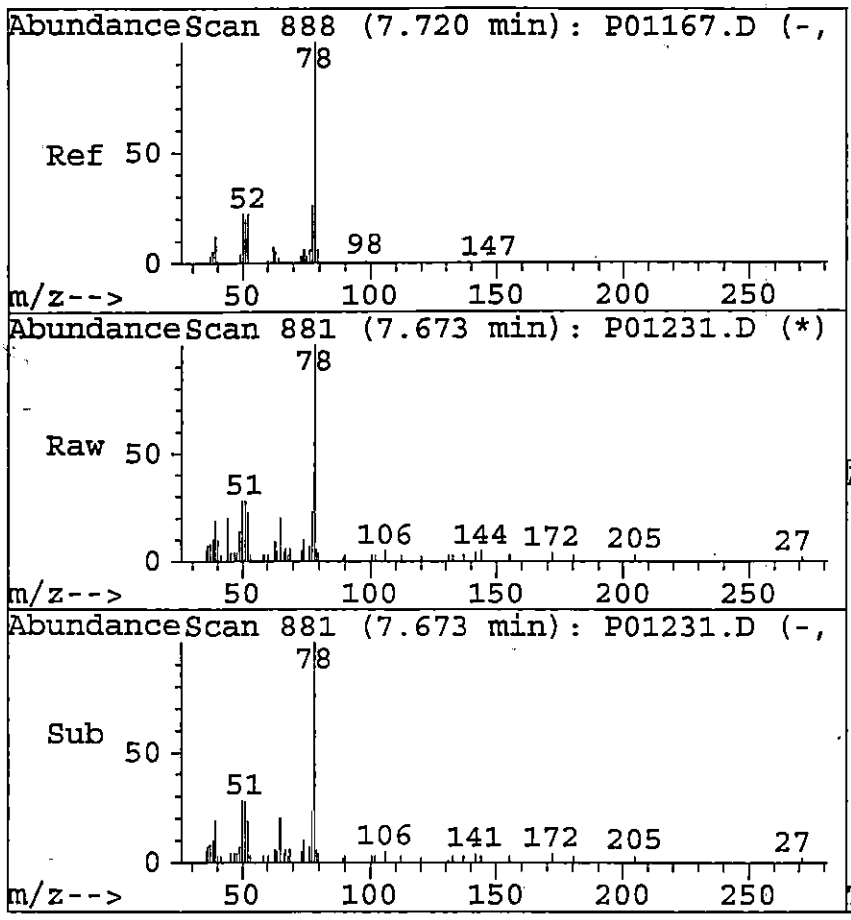
Tgt Ion:130 Resp: 2650

Ion	Ratio	Lower	Upper
130	100		
132	99.7	85.5	125.5
95	97.4	63.2	103.2
0	0.0	0.0	0.0



Sample Name: 9525471 A84201
Misc. Info: 9525471
P01231.D VEPAW3.M Tue Sep 26 21:54:29 1995 SJD

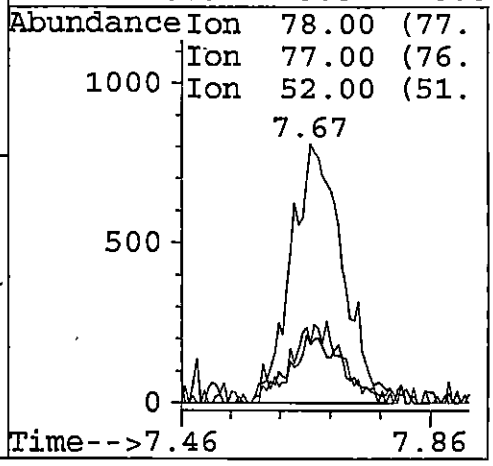
V 0025

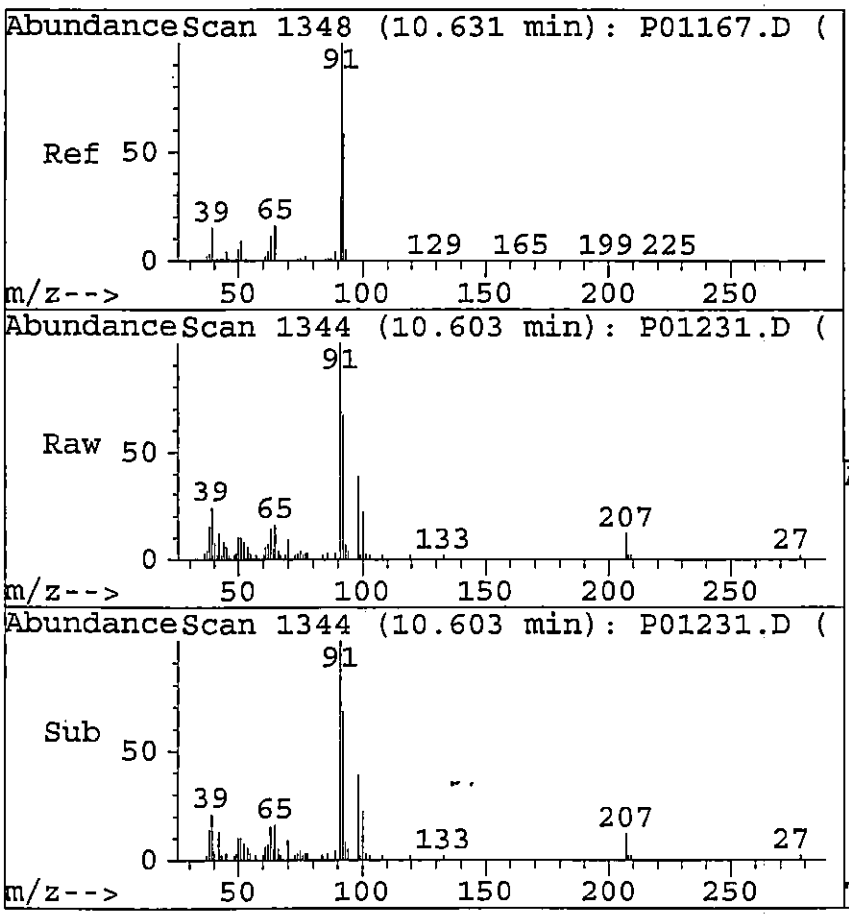


#25
Benzene
Concen: 1.60 UG/L
RT: 7.67 min Scan# 881
Delta R.T. -0.03 min
Lab File: P01231.D
Acq: 17 Sep 95 2:07 pm

Tgt Ion:78 Resp: 4592

Ion	Ratio	Lower	Upper
78	100		
77	23.5	3.8	43.8
52	22.8	0.0	35.7
0	0.0	0.0	0.0

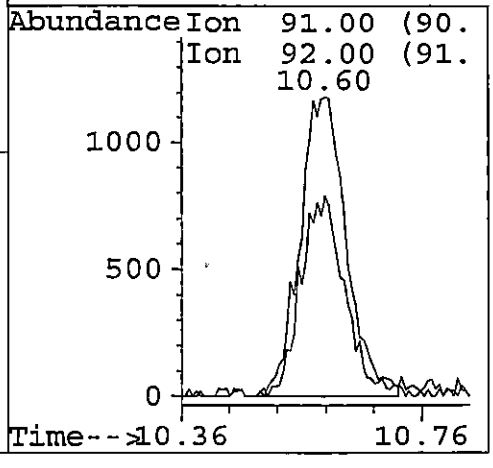




#36
Toluene
Concen: 2.10 UG/L
RT: 10.60 min Scan# 1344
Delta R.T. -0.01 min
Lab File: P01231.D
Acq: 17 Sep 95 2:07 pm

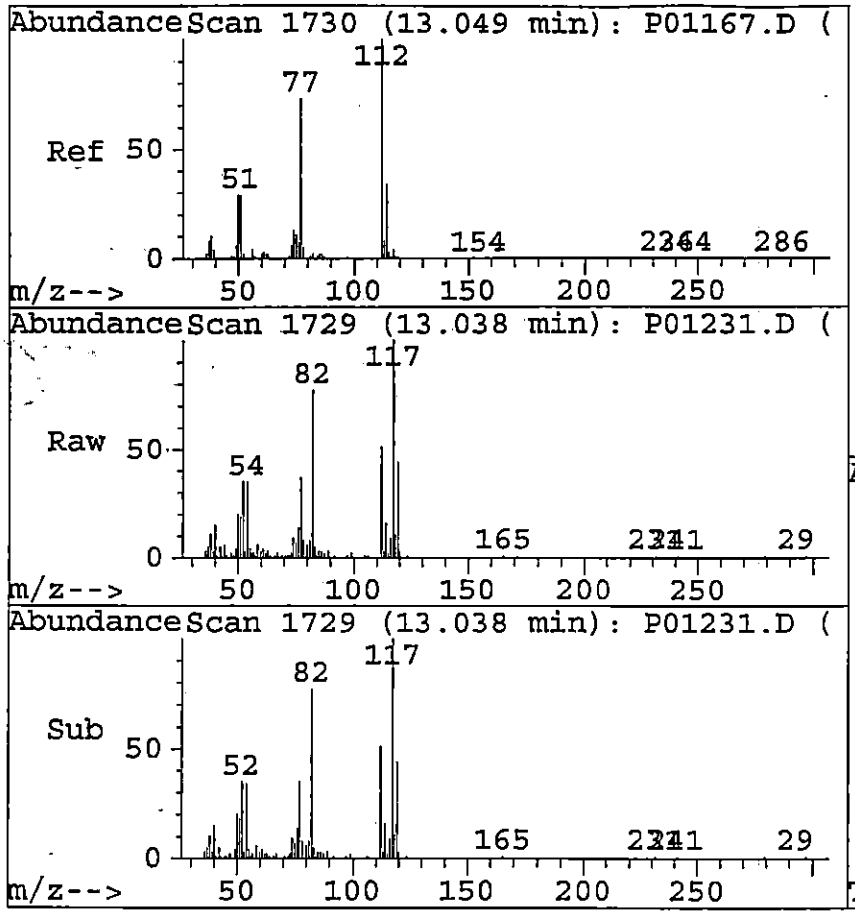
Tgt Ion:91 Resp: 6312

Ion	Ratio	Lower	Upper
91	100		
92	66.6	40.9	80.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Sample Name: 9525471 A84201
Misc. Info: 9525471
P01231.D VEPAW3.M Tue Sep 26 21:54:34 1995 SJD

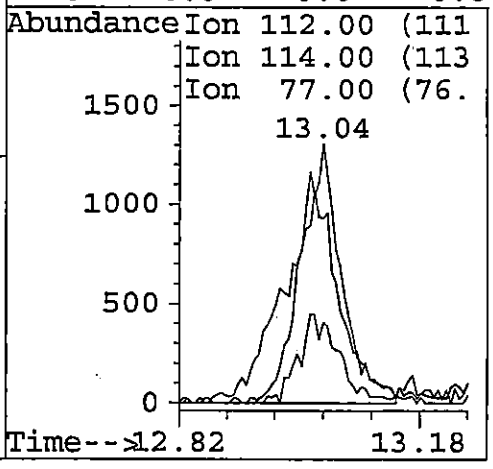
V 0026



#39
Chlorobenzene
Concen: 2.21 UG/L
RT: 13.04 min Scan# 1729
Delta R.T. -0.00 min
Lab File: P01231.D
Acq: 17 Sep 95 2:07 pm

Tgt Ion:112 Resp: 5608

Ion	Ratio	Lower	Upper
112	100		
114	29.3	14.0	54.0
77	68.5	42.2	82.2
0	0.0	0.0	0.0



V 0027

Sample Name: 9525471 A84201
Misc. Info: 9525471
P01231.D VEPAW3.M Tue Sep 26 21:54:38 1995 SJD

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84202

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525472

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01232.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A84202

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525472

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01232.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

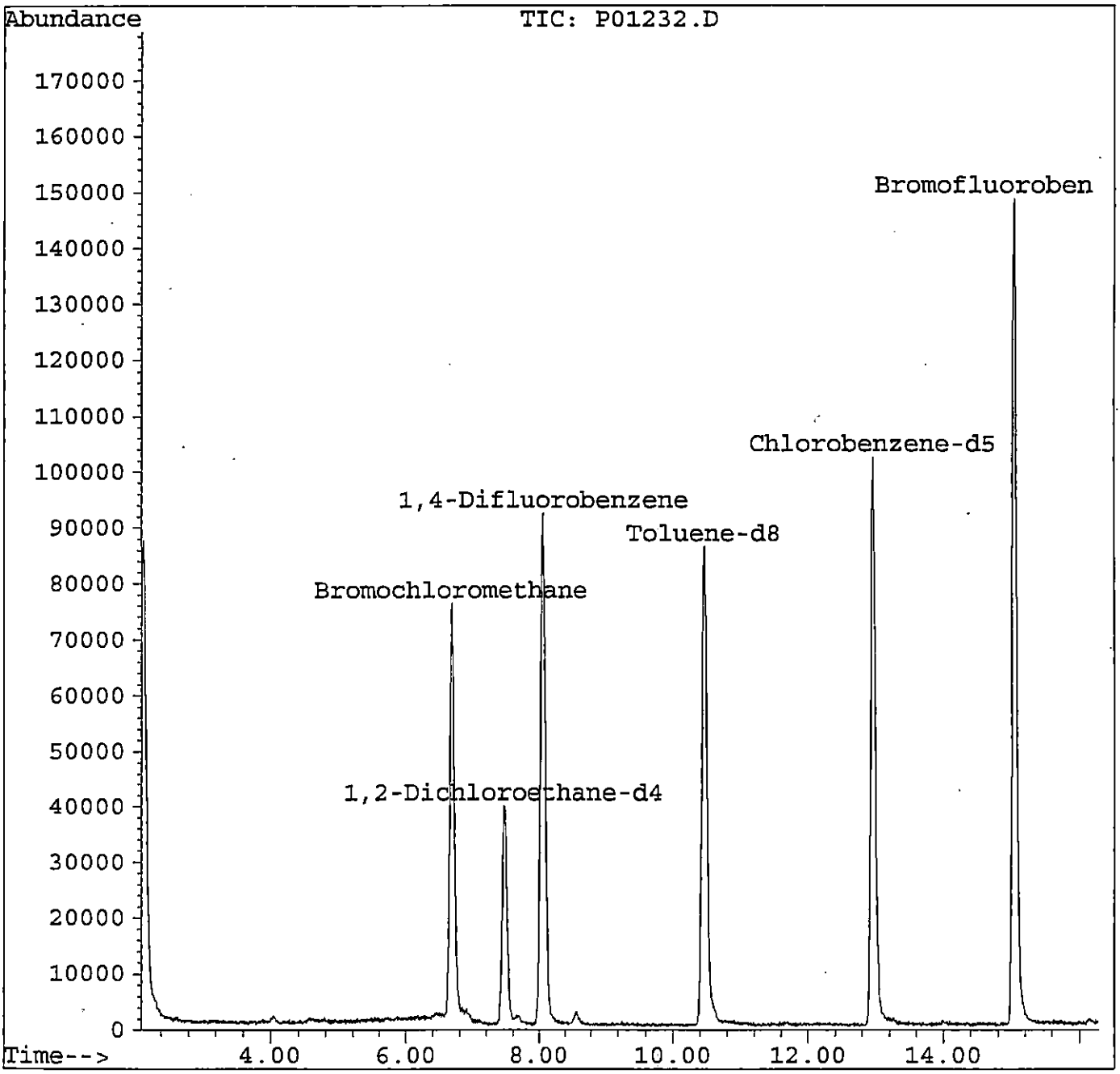
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

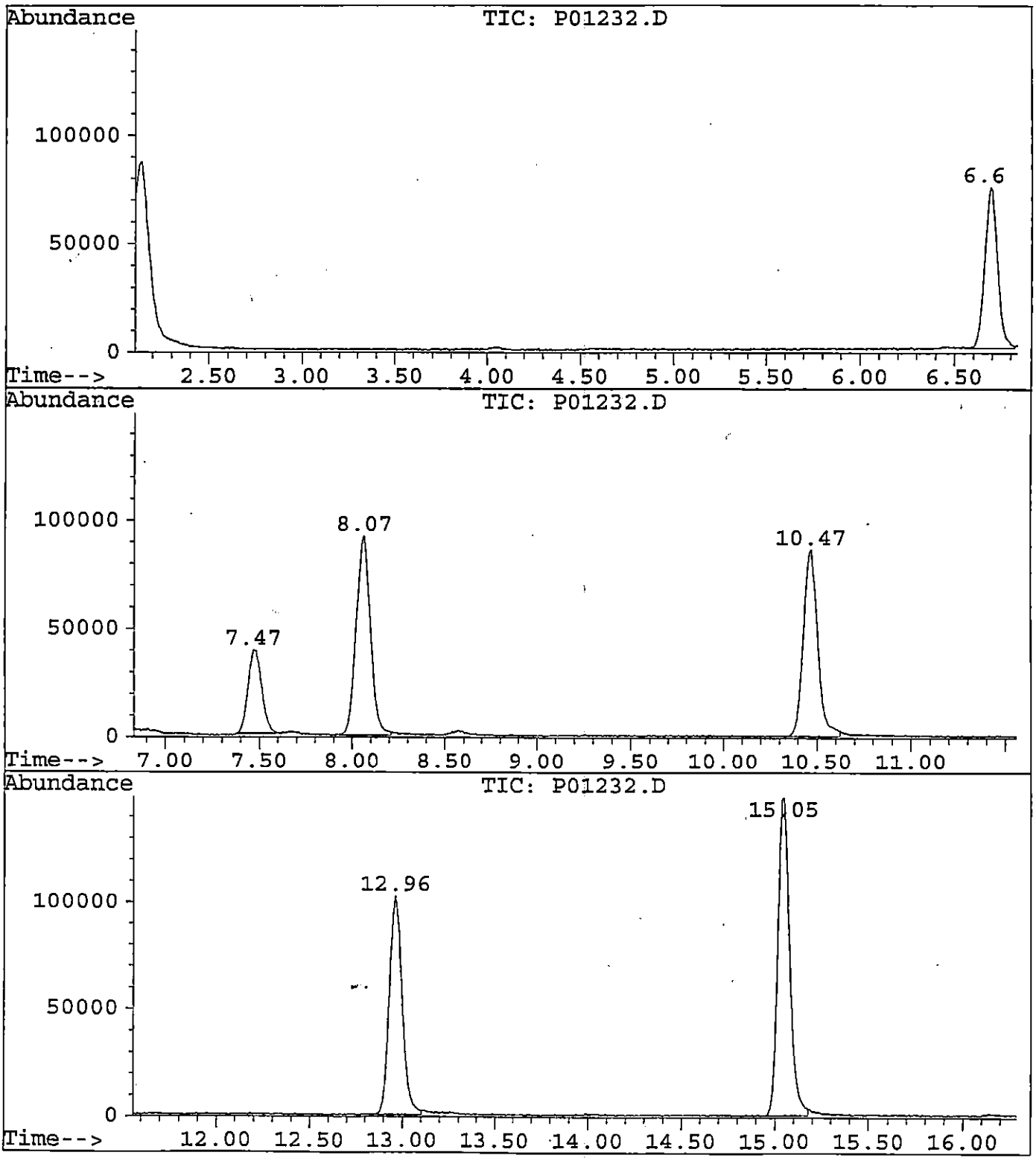
Data File : C:\HPCHEM\1\DATA\P01232.D
Acq On : 17 Sep 95 2:34 pm
Sample : 9525472 A84202
Misc : 9525472
Quant Time: Sep 17 14:53 1995

Vial: 10
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



File : C:\HPCHEM\1\DATA\P01232.D
Operator : MSD
Acquired : 17 Sep 95 14:34 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 9525472 A84202
Misc Info : 9525472
Vial Number: 10



V 0031

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01232.D
Acq On : 17 Sep 95 14:34
Sample : 9525472 A84202
Misc : 9525472
Quant Time: Sep 17 14:53 1995

Vial: 10
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	128	46708	50.00	UG/L	-0.01
21) 1,4-Difluorobenzene	8.07	114	171274	50.00	UG/L	-0.01
33) Chlorobenzene-d5	12.96	117	120308	50.00	UG/L	-0.03
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.47	65	74819	49.22	UG/L	
34) Toluene-d8	10.47	98	146878	54.95	UG/L	
43) Bromofluorobenzene	15.05	95	128425	54.79	UG/L	
Target Compounds						Qvalue

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

V 0032

TIC: P01232.D

9525472 A84202

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	6.693	rBV	0.247	352323	6.573	6.820
2	7.471	rBV	0.202	192217	7.389	7.591
3	8.066	rBV	0.278	488368	7.933	8.211
4	10.470	rBV	0.272	452922	10.350	10.622
5	12.963	rBV	0.240	484951	12.862	13.102
6	15.051	rBV	0.228	658295	14.949	15.177

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P01232.D
Acq On : 17 Sep 95 14:34
Sample : 9525472 A84202
Misc : 9525472

Vial: 10
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0034

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 17 Sep 95 14:34
Data File: C:\HPCHEM\1\DATA\P01232.D
Name: 9525472 A84202
Misc: 9525472
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

A84203

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525473

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01233.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A84203

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525473

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01233.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

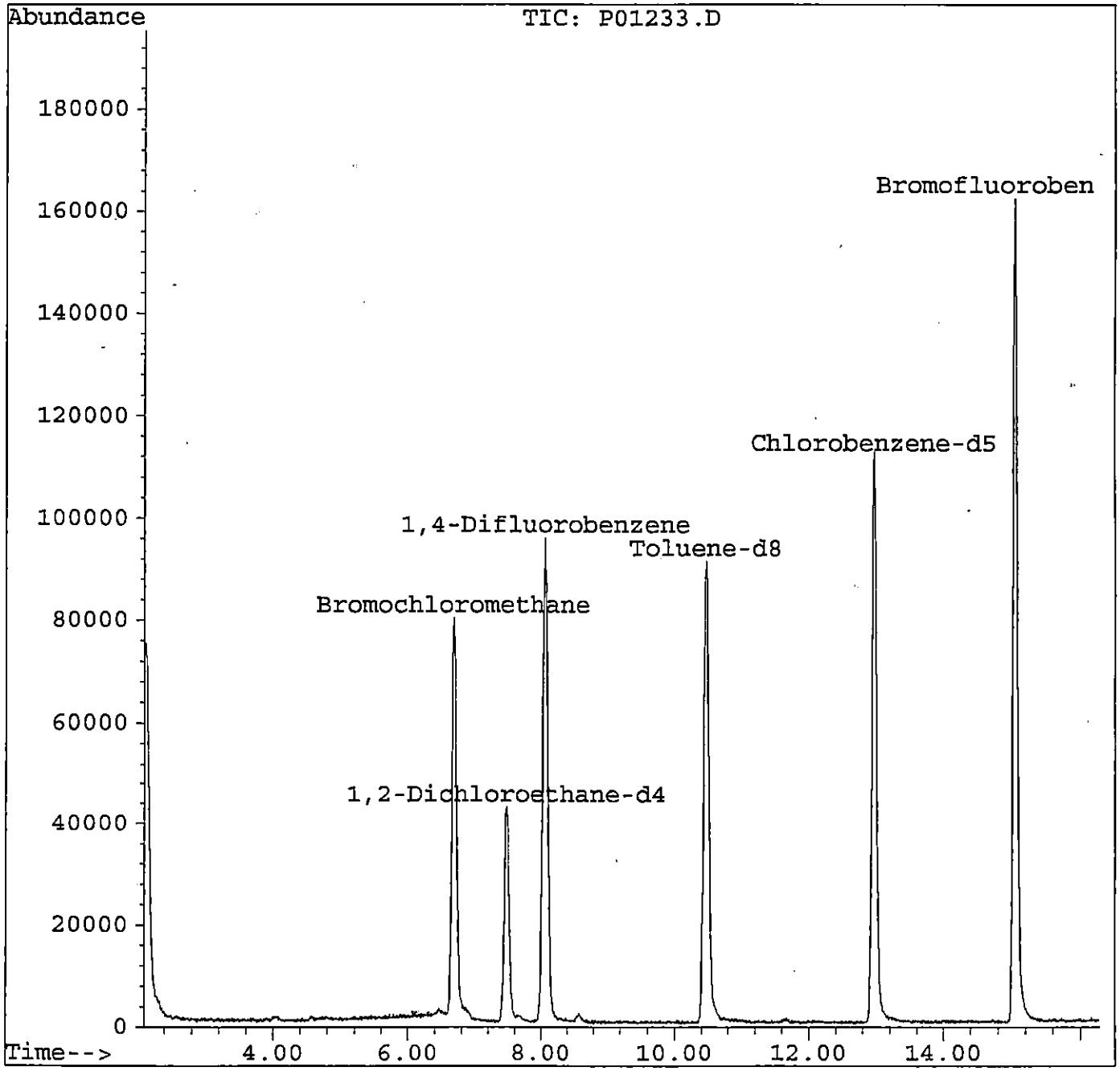
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01233.D
Acq On : 17 Sep 95 3:03 pm
Sample : 9525473 A84203
Misc : 9525473
Quant Time: Sep 26 22:29 1995

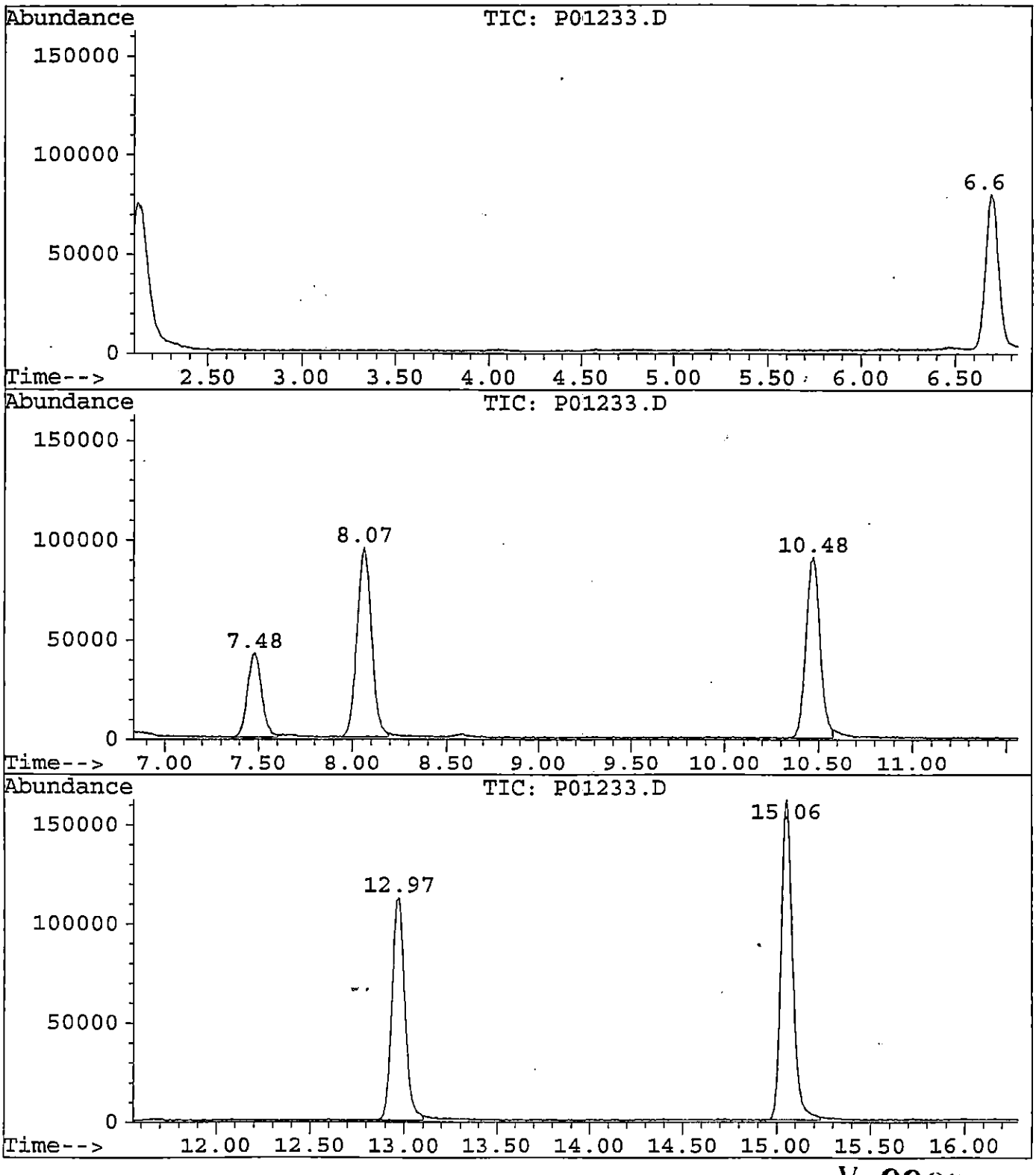
Vial: 11
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0038

File : C:\HPCHEM\1\DATA\P01233.D
Operator : MSD
Acquired : 17 Sep 95 15:03 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 9525473 A84203
Misc Info : 9525473
Vial Number: 11



V 0039

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01233.D Vial: 11
Acq On : 17 Sep 95 15:03 Operator: MSD
Sample : 9525473 A84203 Inst : 5970-3
Misc : 9525473 Multiplr: 1.00
Quant Time: Sep 26 22:29 1995

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.70	128	48963	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	8.07	114	181342	50.00	UG/L	-0.01
33) Chlorobenzene-d5	12.96	117	142798	50.00	UG/L	-0.02
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.48	65	81251	50.99	UG/L	
34) Toluene-d8	10.48	98	158163	49.85	UG/L	
43) Bromofluorobenzene	15.06	95	140794	50.61	UG/L	#
Target Compounds						Qvalue

V 0040

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

TIC: P01233.D

9525473 A84203

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	6.692	rBV	0.253	380723	6.597	6.850
2	7.483	rBV	0.247	219029	7.357	7.603
3	8.065	rBV	0.247	506634	7.945	8.192
4	10.476	rBV	0.221	473554	10.355	10.577
5	12.975	rBV	0.247	531755	12.854	13.101
6	15.056	rBV	0.272	709675	14.961	15.233

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P01233.D
Acq On : 17 Sep 95 15:03
Sample : 9525473 A84203
Misc : 9525473

Vial: 11
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0042

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 17 Sep 95 15:03
Data File: C:\HPCHEM\1\DATA\P01233.D
Name: 9525473 A84203
Misc: 9525473
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84204

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525474

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01234.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A84204

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525474

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01234.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

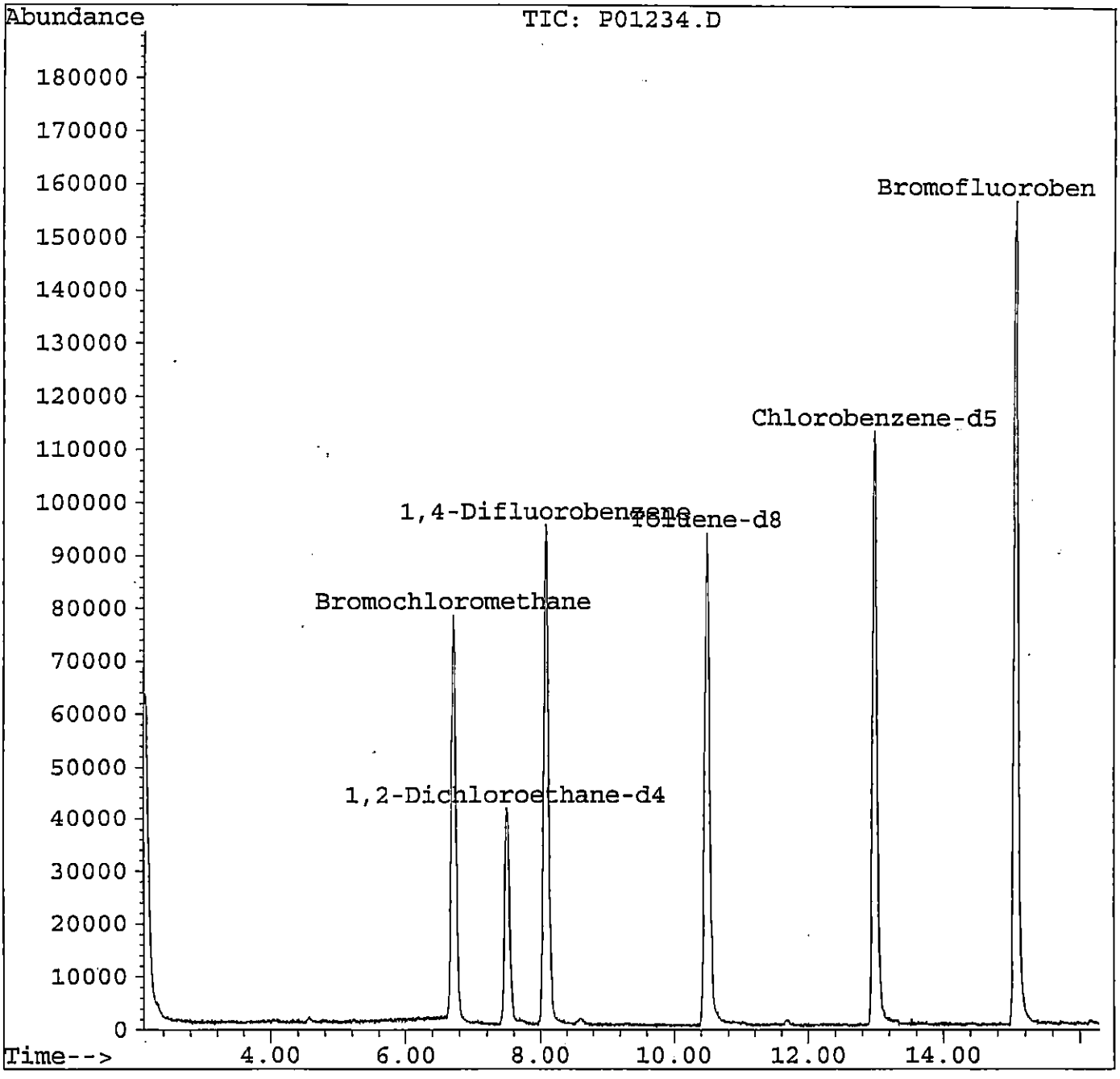
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01234.D
Acq On : 17 Sep 95 3:30 pm
Sample : 9525474 A84204
Misc : 9525474
Quant Time: Sep 17 15:47 1995

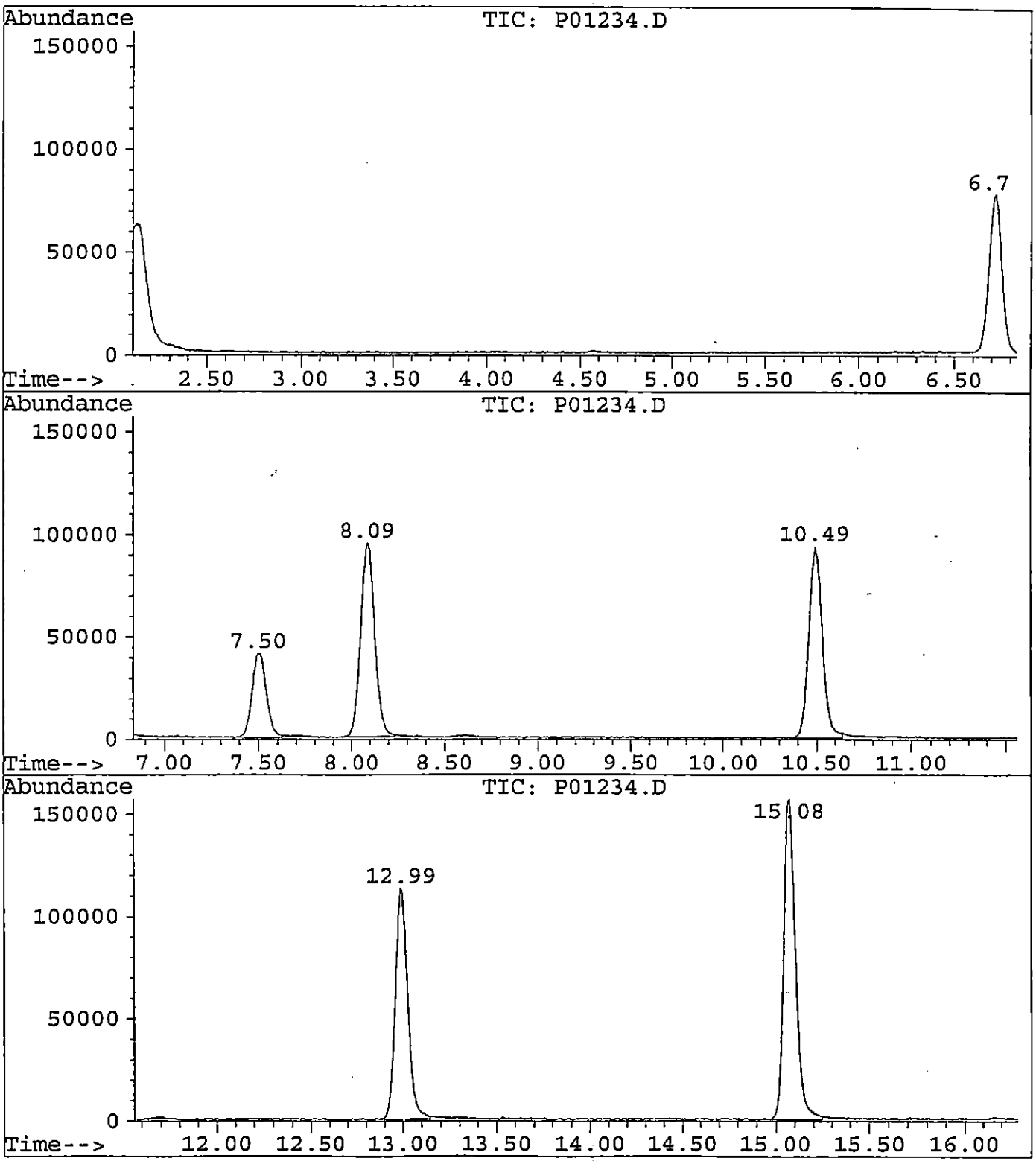
Vial: 12
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0046

File : C:\HPCHEM\1\DATA\P01234.D
Operator : MSD
Acquired : 17 Sep 95 15:30 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 9525474 A84204
Misc Info : 9525474
Vial Number: 12



V 0047

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01234.D
Acq On : 17 Sep 95 15:30
Sample : 9525474 A84204
Misc : 9525474
Quant Time: Sep 17 15:47 1995

Vial: 12
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.72	128	48384	50.00	UG/L	0.01
21) 1,4-Difluorobenzene	8.09	114	183437	50.00	UG/L	0.00
33) Chlorobenzene-d5	12.99	117	139670	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.50	65	78920	50.12	UG/L	
34) Toluene-d8	10.49	98	157612	50.79	UG/L	
43) Bromofluorobenzene	15.07	95	135888	49.94	UG/L	#
Target Compounds						Qvalue

V-0048

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

TIC: P01234.D

9525474 A84204

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	6.720	rBV	0.234	368531	6.600	6.834
2	7.498	rBV	0.228	211690	7.397	7.625
3	8.087	rBV	0.259	505922	7.973	8.232
4	10.491	rBV	0.266	479583	10.371	10.636
5	12.990	rBV	0.266	521215	12.876	13.142
6	15.078	rBV	0.278	692383	14.970	15.248

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P01234.D
Acq On : 17 Sep 95 15:30
Sample : 9525474 A84204
Misc : 9525474

Vial: 12
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0050

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 17 Sep 95 15:30
Data File: C:\HPCHEM\1\DATA\P01234.D
Name: 9525474 A84204
Misc: 9525474
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A85205

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525475

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01235.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A85205

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525475

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01235.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

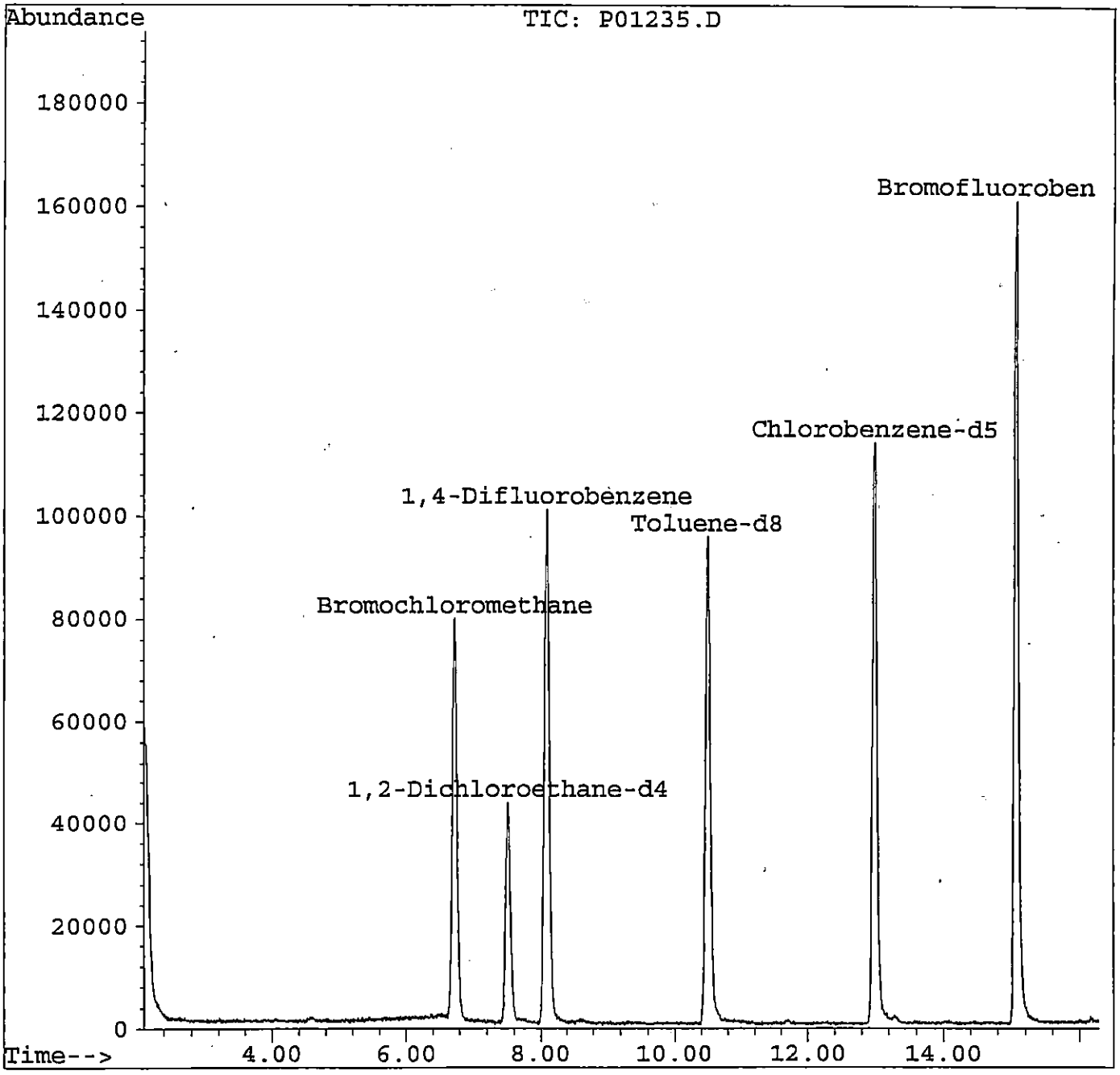
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01235.D
Acq On : 17 Sep 95 3:56 pm
Sample : 9525475 A84205
Misc : 9525475
Quant Time: Sep 17 16:14 1995

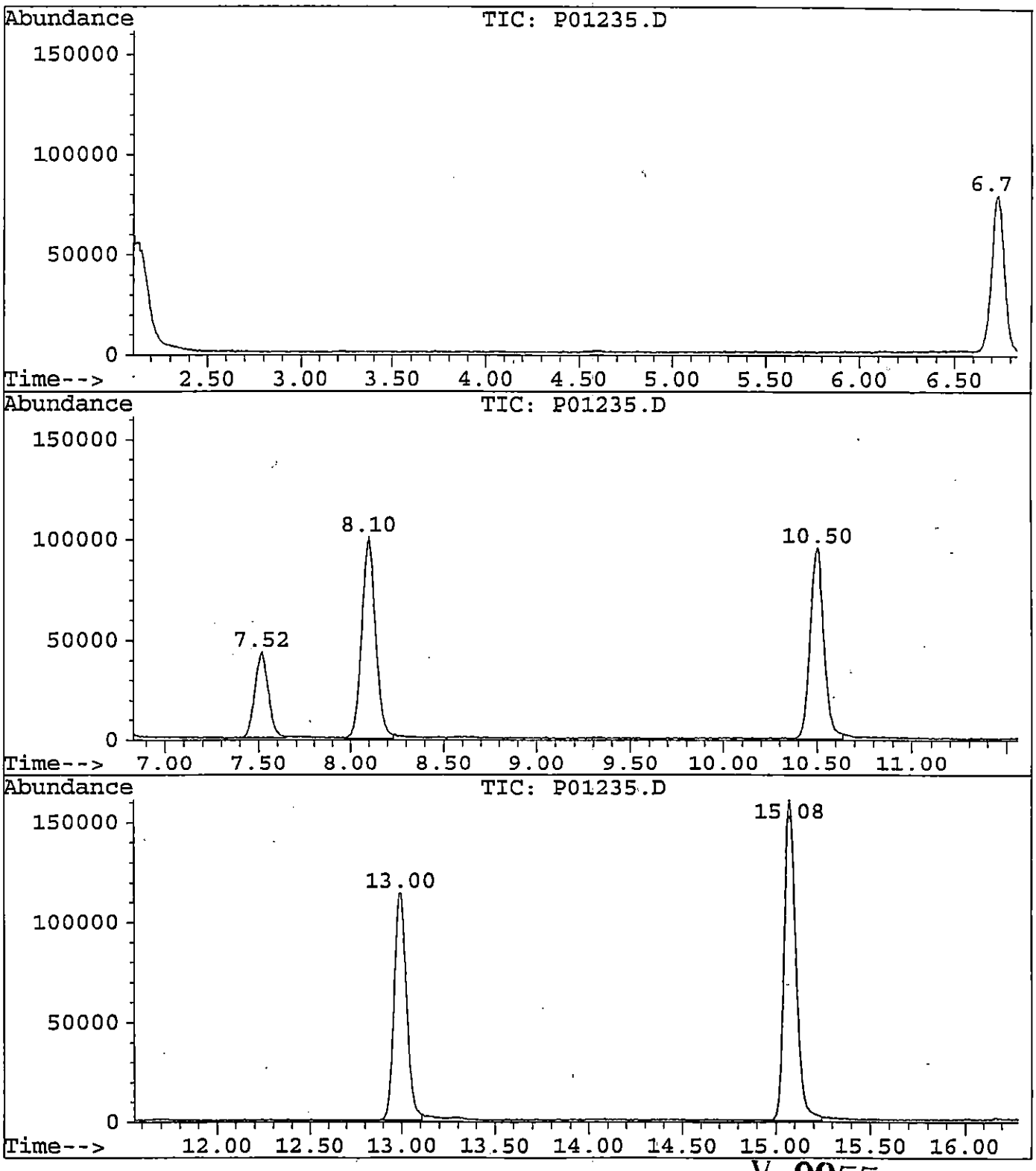
Vial: 13
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0054

File : C:\HPCHEM\1\DATA\P01235.D
Operator : MSD
Acquired : 17 Sep 95 15:56 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 9525475 A84205
Misc Info : 9525475
Vial Number: 13



V 0055

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01235.D
Acq On : 17 Sep 95 15:56
Sample : 9525475 A84205
Misc : 9525475
Quant Time: Sep 17 16:14 1995

Vial: 13
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.73	128	48658	50.00	UG/L	0.03
21) 1,4-Difluorobenzene	8.10	114	187754	50.00	UG/L	0.02
33) Chlorobenzene-d5	13.00	117	142258	50.00	UG/L	0.01
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.52	65	79536	50.22	UG/L	
34) Toluene-d8	10.50	98	160975	50.93	UG/L	
43) Bromofluorobenzene	15.08	95	137190	49.50	UG/L	
Target Compounds						Qvalue

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

V 00056

TIC: P01235.D

9525475 A84205

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	6.732	rVB	0.253	378071	6.619	6.872
2	7.517	rBV	0.228	209315	7.416	7.644
3	8.099	rBV	0.266	533381	7.966	8.232
4	10.503	rBV	0.253	493785	10.383	10.636
5	12.996	rBV	0.228	527711	12.882	13.110
6	15.077	rBV	0.278	706405	14.963	15.242

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P01235.D
Acq On : 17 Sep 95 15:56
Sample : 9525475 A84205
Misc : 9525475

Vial: 13
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0058

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 17 Sep 95 15:56
Data File: C:\HPCHEM\1\DATA\P01235.D
Name: 9525475 A84205
Misc: 9525475
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

V 0059

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

A84206

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525476

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01236.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	18	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A84206

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525476

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01236.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 1

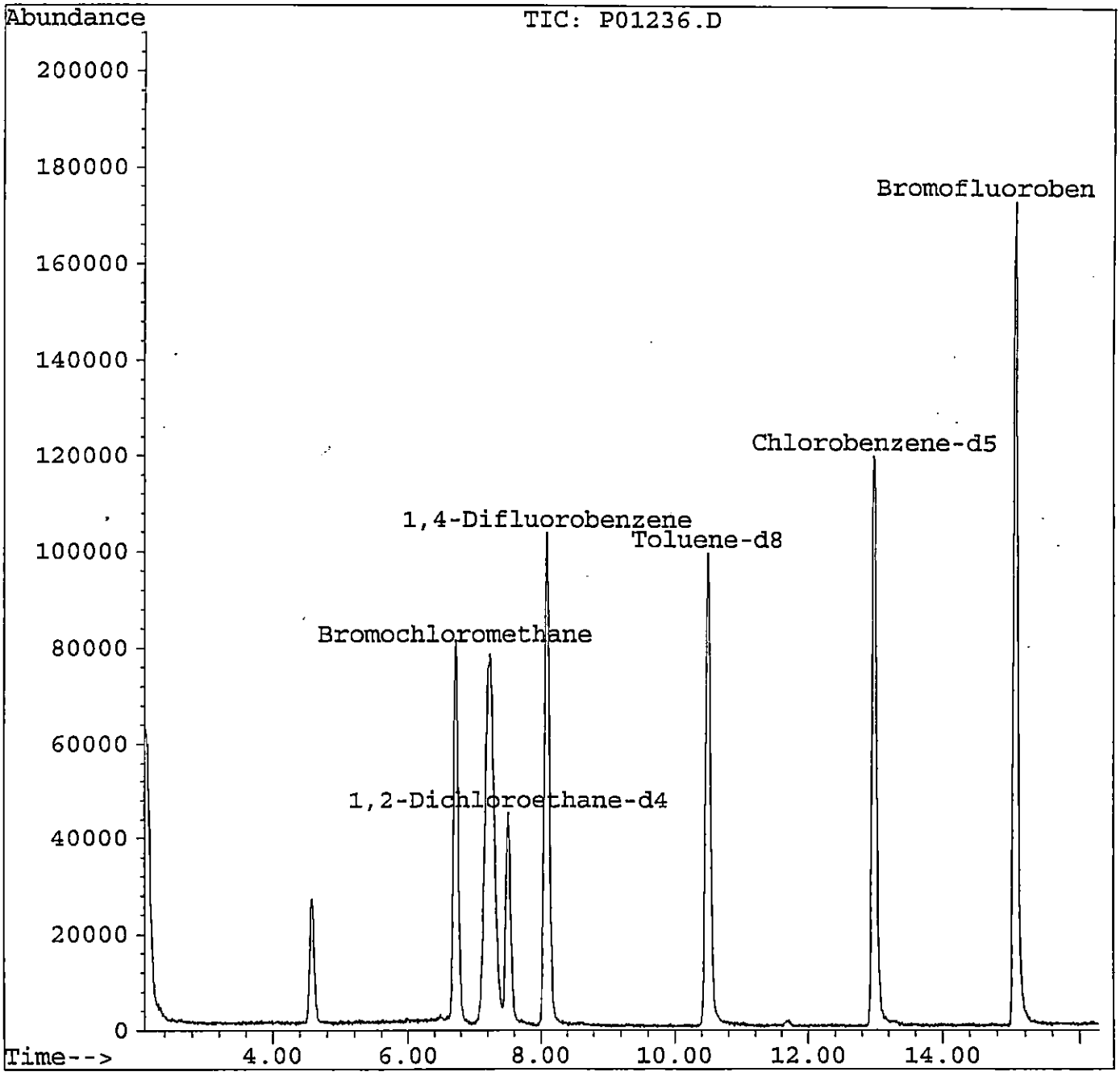
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	7.24	94	J

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01236.D
Acq On : 17 Sep 95 4:23 pm
Sample : 9525476 A84206
Misc : 9525476
Quant Time: Sep 17 16:40 1995

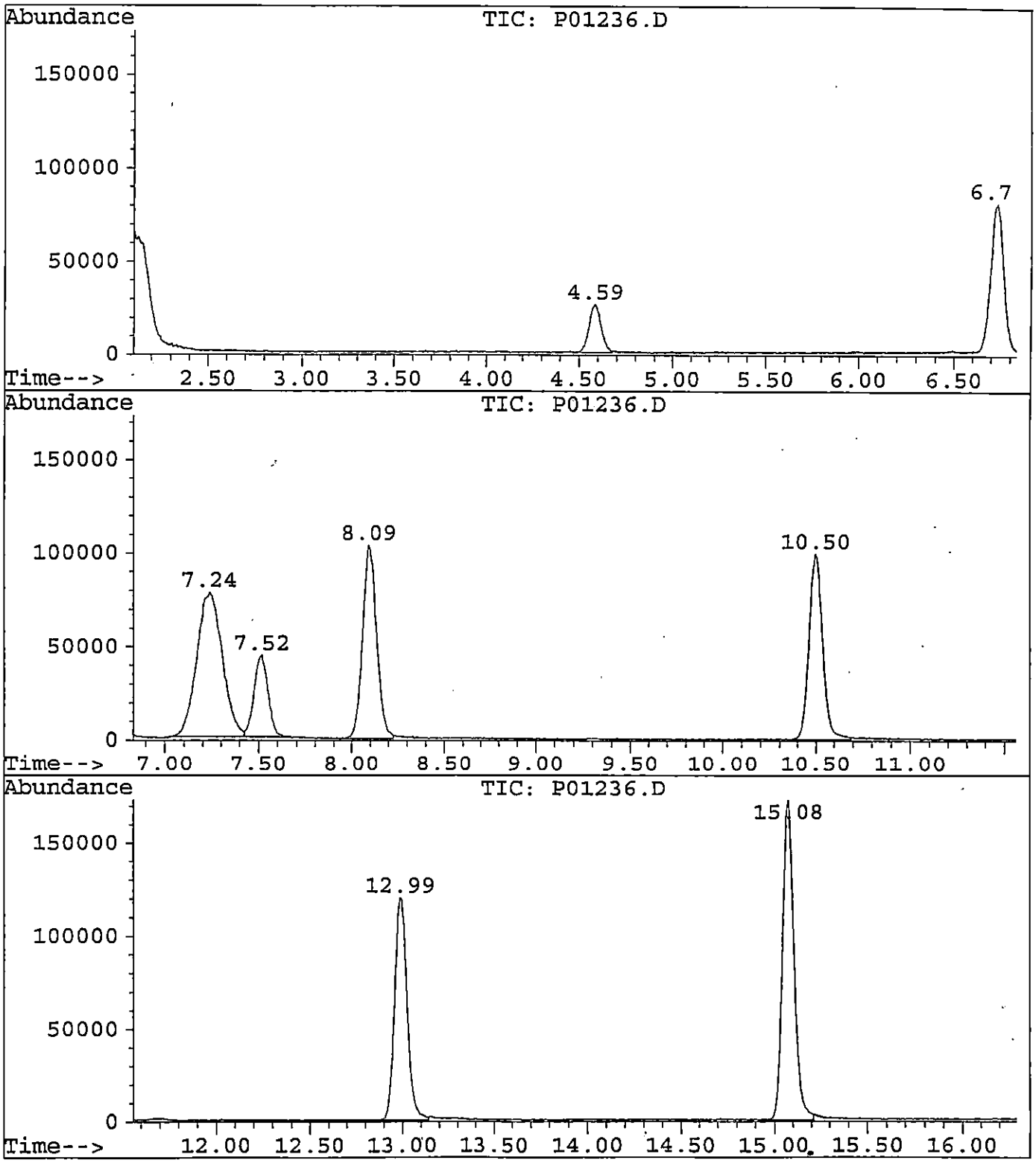
Vial: 14
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0062

File : C:\HPCHEM\1\DATA\P01236.D
Operator : MSD
Acquired : 17 Sep 95 16:23 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 9525476 A84206
Misc Info : 9525476
Vial Number: 14



V 0063

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01236.D
Acq On : 17 Sep 95 16:23
Sample : 9525476 A84206
Misc : 9525476
Quant Time: Sep 26 22:35 1995

Vial: 14
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.72	128	50406	50.00	UG/L	0.01
21) 1,4-Difluorobenzene	8.09	114	195236	50.00	UG/L	0.01
33) Chlorobenzene-d5	13.00	117	150815	50.00	UG/L	0.01
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.51	65	83190	50.71	UG/L	
34) Toluene-d8	10.50	98	168035	50.15	UG/L	
43) Bromofluorobenzene	15.07	95	148133	50.41	UG/L	
Target Compounds						Qvalue
9) Methylene Chloride	4.59	84	25424m	17.86	UG/L	96

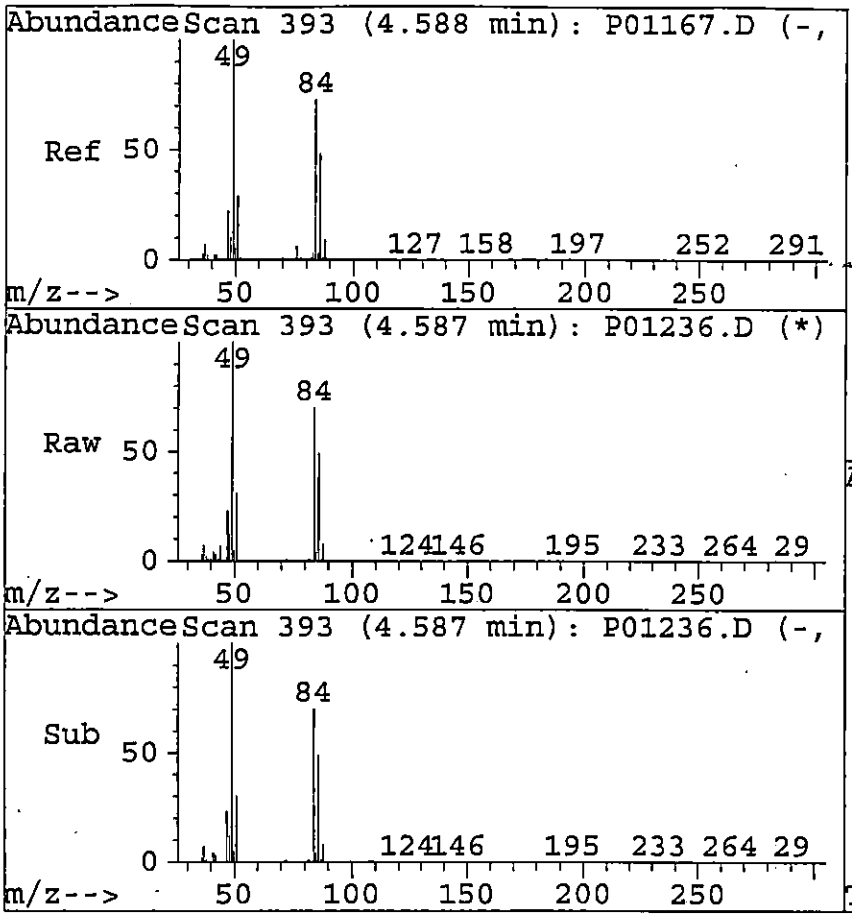
9/26/95

(#) = qualifier out of range (m) = manual integration
P01236.D VEPAW3.M Tue Sep 26 22:36:36 1995 SJD Page 1

TIC: P01236.D

9525476 A84206

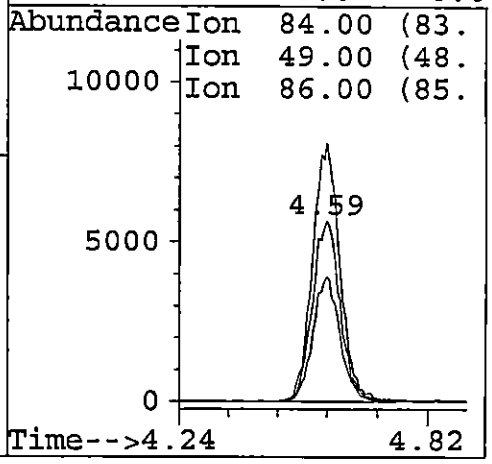
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	4.587	rBV	0.196	114611	4.480	4.676
2	6.732	rVB	0.247	387718	6.618	6.865
3	7.238	rBV	0.386	732178	7.036	7.422
4	7.517	rVB	0.202	217465	7.428	7.631
5	8.092	rBV	0.266	549532	7.960	8.225
6	10.496	rBV	0.342	518520	10.345	10.686
7	12.989	rBV	0.278	564364	12.863	13.141
8	15.077	rBV	0.247	748620	14.963	15.210



#9
Methylene Chloride
Concen: 17.86 UG/L m
RT: 4.59 min Scan# 393
Delta R.T. 0.04 min
Lab File: P01236.D
Acq: 17 Sep 95 4:23 pm

Tgt Ion:84 Resp: 25424

Ion	Ratio	Lower	Upper
84	100		
49	143.0	80.9	120.9#
86	69.4	49.4	89.4
0	0.0	0.0	0.0



V 0066

Library Search Compound Report

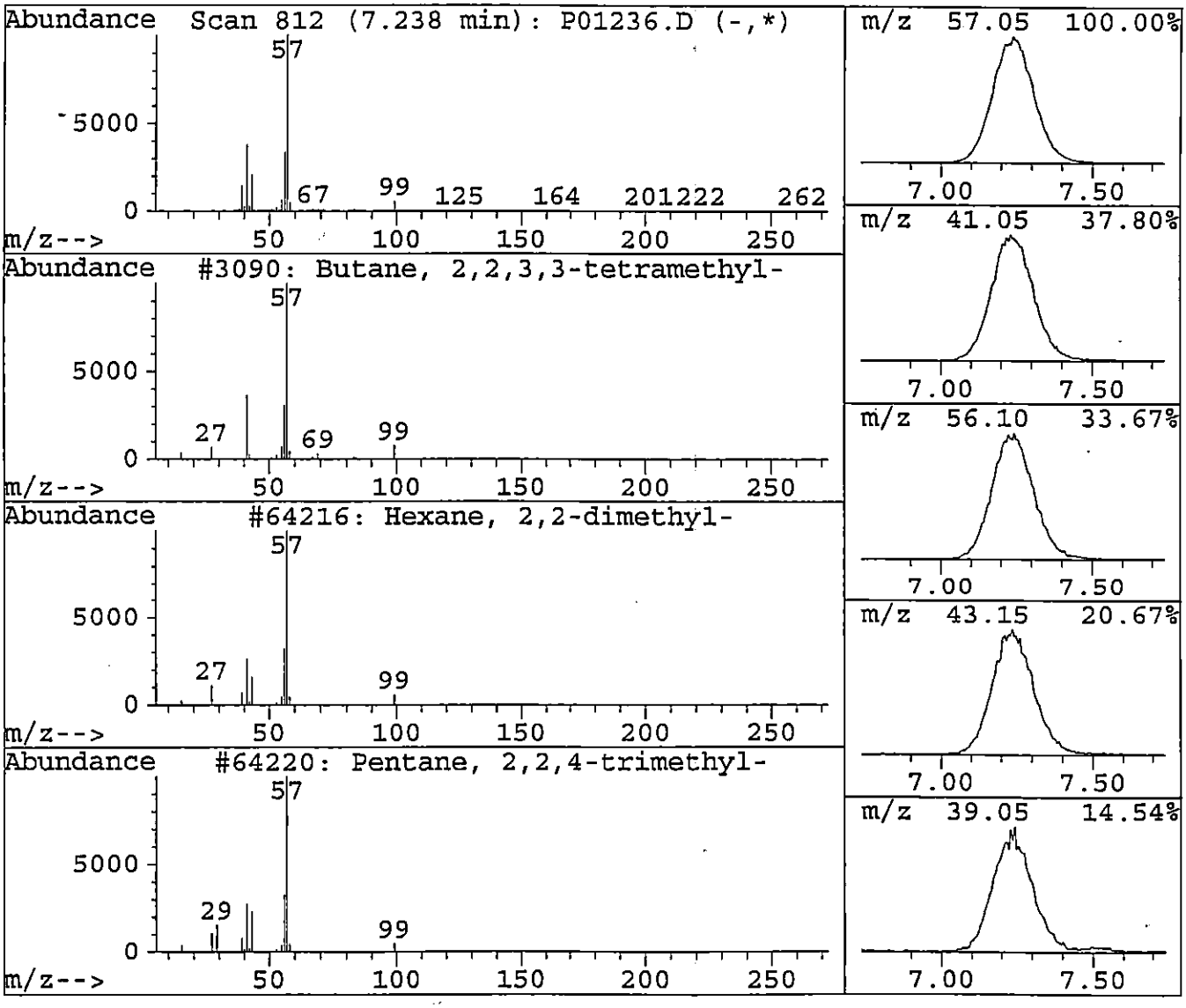
Data File : C:\HPCHEM\1\DATA\P01236.D
Acq On : 17 Sep 95 16:23
Sample : 9525476 A84206
Misc : 9525476

Vial: 14
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
7.24	94.42 UG/L	732178	Bromochloromethane	6.72

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	56
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	38



V 0067

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 17 Sep 95 16:23
Data File: C:\HPCHEM\1\DATA\P01236.D
Name: 9525476 A84206
Misc: 9525476
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methylene Chloride	4.59	14.8	UG/L	114611	ISTD01	6.72	387718	50.0
Butane, 2,2,3,3-tetr	7.24	94.4	UG/L	732178	ISTD01	6.72	387718	50.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84207

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525477

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01222.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. Date Analyzed: 09/16/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A84207

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525477

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01222.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/16/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

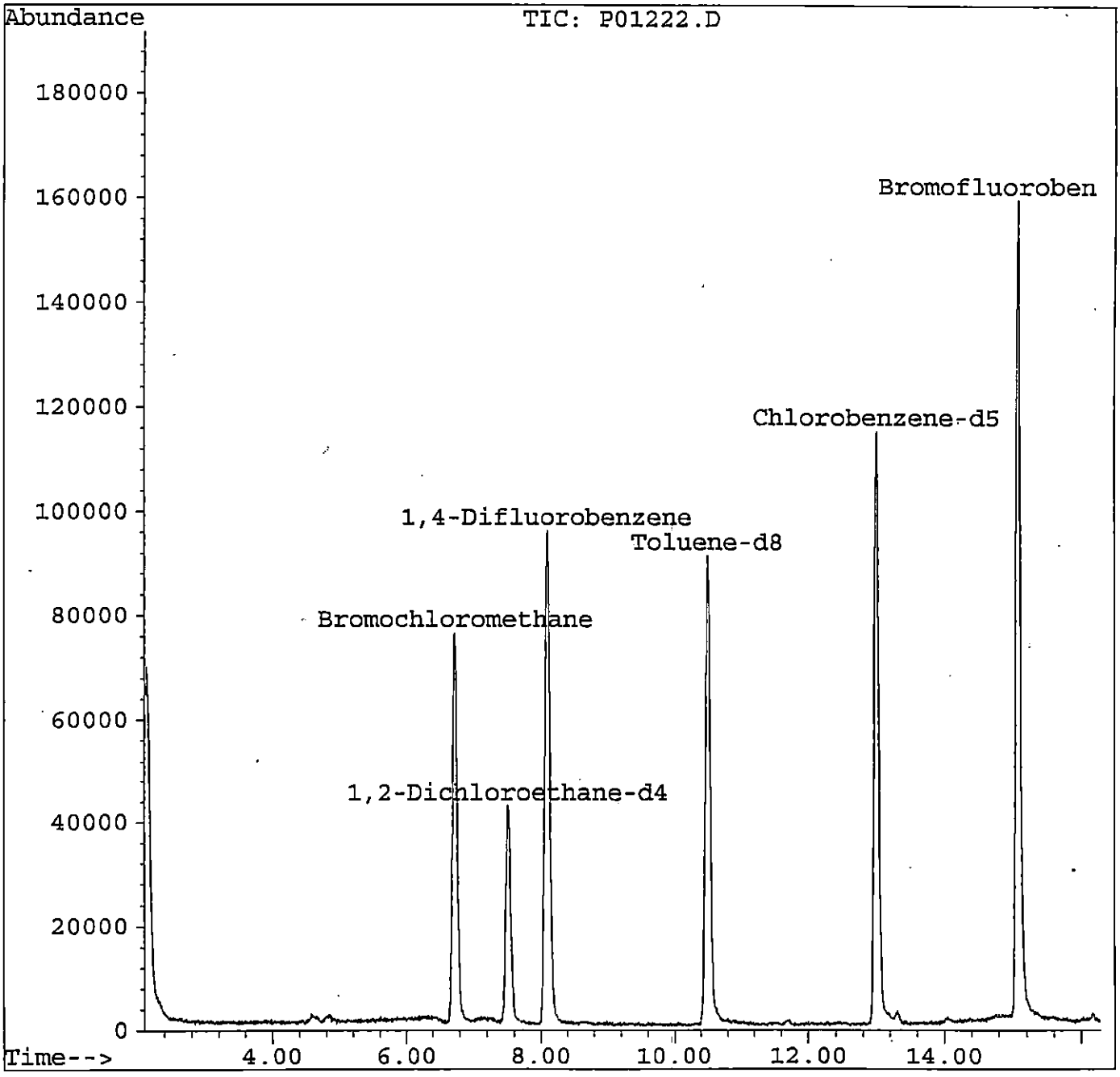
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01222.D
Acq On : 16 Sep 95 5:06 pm
Sample : 9525477 A84207
Misc :
Quant Time: Sep 16 17:23 1995

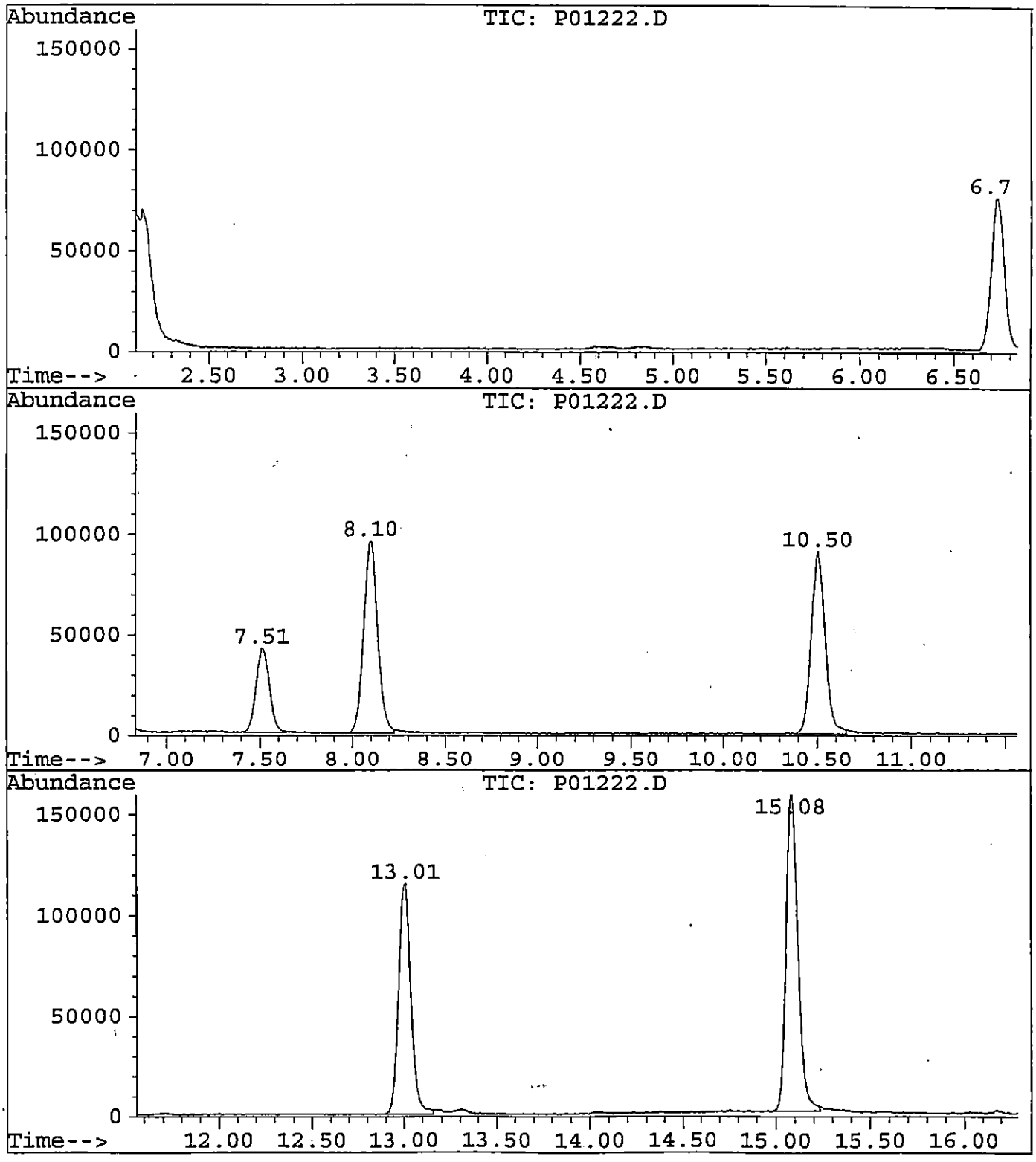
Vial: 11
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0071

File : C:\HPCHEM\1\DATA\P01222.D
Operator : MSD
Acquired : 16 Sep 95 17:06 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 9525477 A84207
Misc Info :
Vial Number: 11



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01222.D
Acq On : 16 Sep 95 17:06
Sample : 9525477 A84207
Misc :
Quant Time: Sep 16 17:23 1995

Vial: 11
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sat Sep 16 12:56:09 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01213.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.73	128	47568	50.00	UG/L	0.03
21) 1,4-Difluorobenzene	8.11	114	183383	50.00	UG/L	0.04
33) Chlorobenzene-d5	13.00	117	143713	50.00	UG/L	0.02
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.51	65	78795	51.98	UG/L	
34) Toluene-d8	10.50	98	156557	48.93	UG/L	
43) Bromofluorobenzene	15.09	95	136012	49.22	UG/L	#
Target Compounds						Qvalue

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

TIC: P01222.D

9525477 A84207

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	6.733	rBV	0.234	365116	6.632	6.866
2	7.511	rBV	0.221	205186	7.416	7.638
3	8.099	rBV	0.259	509453	7.967	8.226
4	10.504	rBV	0.272	472457	10.383	10.655
5	13.009	rBV	0.259	528293	12.895	13.154
6	15.084	rBV	0.247	691239	14.983	15.230

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P01222.D
Acq On : 16 Sep 95 17:06
Sample : 9525477 A84207
Misc :

Vial: 11
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0075

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 16 Sep 95 17:06
Data File: C:\HPCHEM\1\DATA\P01222.D
Name: 9525477 A84207
Misc:
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

III. STANDARD DATA PACKAGE FOR VOLATILE ORGANICS

A. INITIAL CALIBRATION FORM
B. STANDARD GC/MS CHROMATOGRAMS
C. DATA SYSTEM REPORT
D. CONTINUING CALIBRATION FORM
E. STANDARD GC/MS CHROMATOGRAMS
F. DATA SYSTEM REPORT

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: _____ Contract: _____

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

Instrument ID: _____ Calibration Date(s): 08/23/95 08/23/95

Heated Purge (Y/N): N Calibration Times: 13:23 16:27

GC Column: _____ ID: _____ (mm)

LAB FILE ID RRF10 = P01029.D RRF20 = P01030.D
RRF50 = P01025.D RRF100 = P01031.D RRF200 = P01032.D

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
Chloromethane		0.712	0.662	0.901	0.596	0.573	0.689	19.0	
Bromomethane	*	1.264	1.206	1.625	1.213	1.130	1.287	15.1	*
Vinyl Chloride	*	0.872	0.805	1.156	0.767	0.694	0.859	20.7	*
Chloroethane		0.630	0.641	0.774	0.616	0.552	0.643	12.6	
Methylene Chloride		1.685	1.484	1.955	1.383	1.311	1.564	16.6	
Acetone		1.007	0.401	0.467	0.364	0.307	0.509	55.8	
Carbon Disulfide		3.783	3.675	5.304	3.638	3.537	3.987	18.6	
1,1-Dichloroethene	*	1.344	1.306	1.816	1.274	1.205	1.389	17.6	*
1,1-Dichloroethane	*	2.785	2.709	3.784	2.659	2.613	2.910	16.9	*
1,2-Dichloroethene (total)		1.499	1.429	1.065	1.397	1.311	1.340	12.5	
Chloroform	*	3.993	3.882	5.065	3.721	3.514	4.035	15.0	*
1,2-Dichloroethane	*	2.281	2.355	3.180	2.258	2.094	2.434	17.6	*
2-Butanone		0.491	0.358	0.496	0.429	0.357	0.426	16.0	
1,1,1-Trichloroethane	*	0.827	0.935	1.221	0.918	0.945	0.969	15.3	*
Carbon Tetrachloride	*	0.915	0.949	1.206	0.945	0.869	0.977	13.5	*
Bromodichloromethane	*	1.003	1.049	1.343	1.040	1.011	1.089	13.1	*
1,2-Dichloropropane		0.394	0.395	0.509	0.384	0.389	0.414	12.8	
cis-1,3-Dichloropropene	*	0.571	0.625	0.796	0.606	0.603	0.640	13.9	*
Trichloroethene	*	0.574	0.583	0.733	0.556	0.478	0.585	15.8	*
Benzene	*	0.886	0.897	1.049	0.851	0.771	0.891	11.4	*
Dibromochloromethane	*	0.798	0.874	1.137	0.852	0.833	0.899	15.1	*
trans-1,3-Dichloropropene	*	0.487	0.547	0.713	0.531	0.522	0.560	15.8	*
1,1,2-Trichloroethane	*	0.345	0.371	0.479	0.349	0.349	0.378	15.0	*
Bromoform	*	0.558	0.608	0.787	0.587	0.558	0.620	15.4	*
4-Methyl-2-Pentanone		0.262	0.263	0.313	0.258	0.251	0.269	9.2	
2-Hexanone		0.251	0.228	0.289	0.242	0.228	0.247	10.1	
Tetrachloroethene	*	0.712	0.705	0.858	0.680	0.727	0.736	9.5	*
1,1,2,2-Tetrachloroethane	*	0.732	0.733	0.839	0.674	0.655	0.727	9.9	*
Toluene	*	1.260	1.249	1.442	1.249	1.257	1.291	6.5	*
Chlorobenzene	*	1.168	1.145	1.348	1.099	1.148	1.181	8.2	*
Ethylbenzene	*	0.471	0.473	0.546	0.465	0.449	0.481	7.8	*
Styrene	*	0.983	1.025	1.084	0.971	0.916	0.996	6.3	*
Xylene (total)	*	0.580	0.585	0.678	0.558	0.547	0.590	8.8	*
1,2-Dichloroethane-d4		1.933	1.686	1.801	1.665	1.480	1.713	9.8	
Toluene-d8		1.263	1.031	1.012	1.055	1.088	1.090	9.3	
Bromofluorobenzene	*	1.050	0.864	0.932	0.842	0.841	0.906	9.8	*

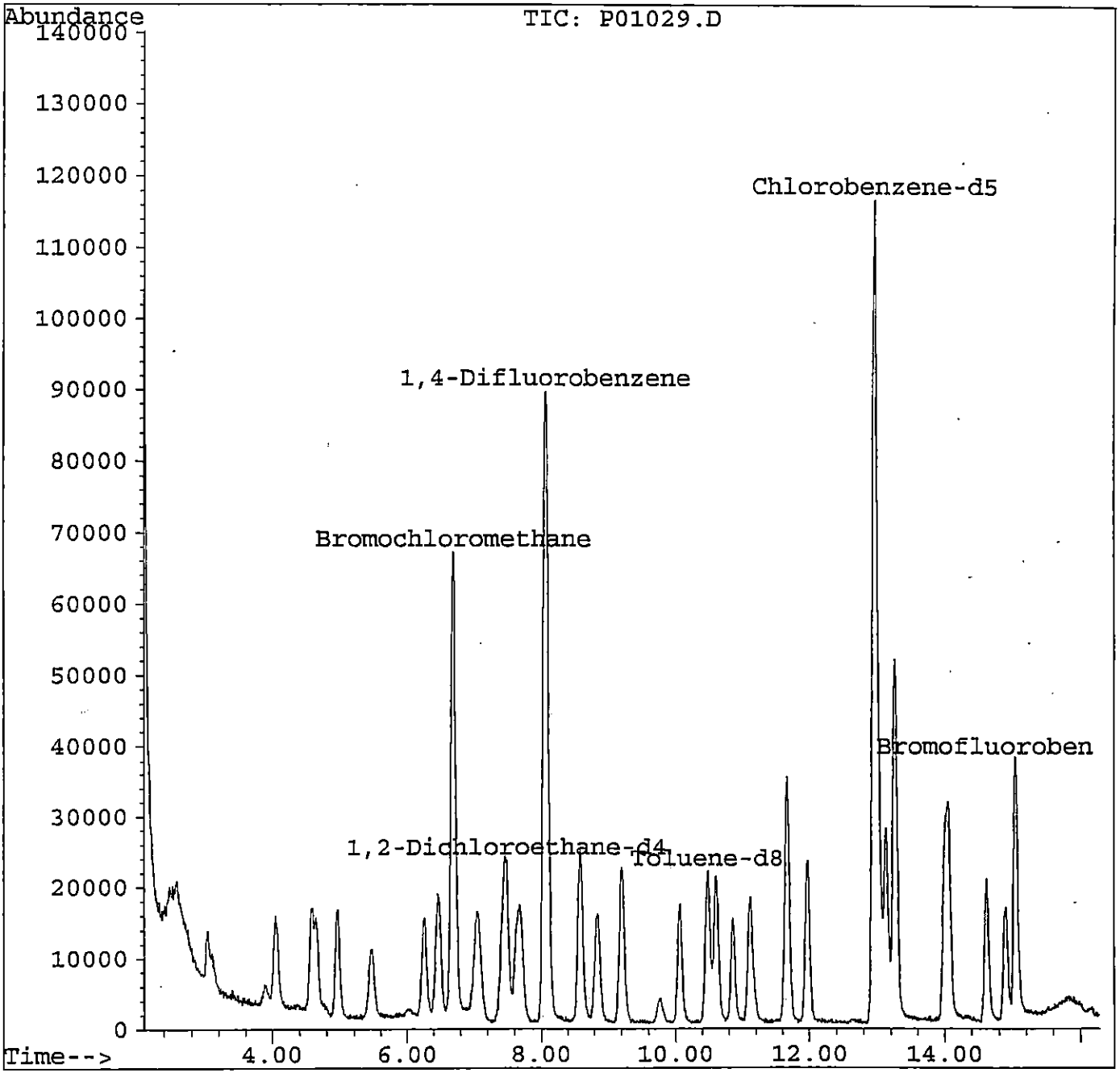
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01029.D
Acq On : 23 Aug 95 3:16 pm
Sample : VSTD010
Misc : VSTD010
Quant Time: Aug 23 16:55 1995

Vial: 8
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0079

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01029.D
Acq On : 23 Aug 95 15:16
Sample : VSTD010
Misc : VSTD010
Quant Time: Aug 23 16:55 1995

Vial: 8
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.70	128	45101	50.00	UG/L		-0.01
21) 1,4-Difluorobenzene	8.06	114	189845	50.00	UG/L		-0.03
33) Chlorobenzene-d5	12.97	117	150544	50.00	UG/L		-0.02
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.48	65	17439	10.73	UG/L		
34) Toluene-d8	10.48	98	38031	12.49	UG/L		
43) Bromofluorobenzene	15.06	95	31621	11.27	UG/L	#	
Target Compounds							Qvalue
2) Chloromethane	2.48	50	6421m	7.97	UG/L		88
3) Vinyl Chloride	2.59	62	7861m	7.62	UG/L		80
4) Bromomethane	3.05	94	11397m	7.78	UG/L		99
5) Chloroethane	3.11	64	5686	8.15	UG/L		99
6) 1,1-Dichloroethene	4.05	96	12122	7.40	UG/L	#	85
7) Carbon Disulfide	4.66	76	34122	7.13	UG/L	#	27
8) Acetone	3.90	43	9085m	21.56	UG/L		82
9) Methylene Chloride	4.59	84	15202	8.62	UG/L		87
13) trans-1,2-Dichloroethene	4.96	96	14443	7.52	UG/L		97
14) cis-,1,2-Dichloroethene	6.26	96	15103	7.39	UG/L		97
15) 1,2-Dichloroethene (total)	4.96	96	27048m	28.16	UG/L		81
16) 1,1-Dichloroethane	5.46	63	25117	7.36	UG/L		98
17) Chloroform	6.47	83	36013	7.88	UG/L		93
19) 1,2-Dichloroethane	7.62	62	20579	7.18	UG/L		95
20) 2-Butanone	6.04	43	4430m	9.90	UG/L		81
22) 1,1,1-Trichloroethane	7.07	97	31387	6.77	UG/L		97
23) Carbon Tetrachloride	7.44	117	34724	7.58	UG/L		94
24) Trichloroethene	8.58	130	21811	7.84	UG/L		86
25) Benzene	7.69	78	33639	8.44	UG/L		96
26) 1,2-Dichloropropane	8.85	63	14945	7.74	UG/L		92
27) Bromodichloromethane	9.21	83	38080	7.47	UG/L		98
28) cis-1,3-Dichloropropene	10.06	75	21687	7.18	UG/L		96
29) trans-1,3-Dichloropropene	10.86	75	18502	6.83	UG/L		89
30) 1,1,2-Trichloroethane	11.10	97	13103	7.21	UG/L		91
31) Dibromochloromethane	11.97	129	30295	7.02	UG/L		98
32) Bromoform	14.62	173	21195	7.10	UG/L		95
35) 4-Methyl-2-Pentanone	9.78	43	7898	8.39	UG/L		93
36) Toluene	10.61	91	37921	8.74	UG/L		96
37) Tetrachloroethene	11.67	164	21437	8.30	UG/L		88
38) 2-Hexanone	11.18	43	7548	8.69	UG/L		96
39) Chlorobenzene	13.03	112	35163	8.66	UG/L		94
40) Ethylbenzene	13.14	106	14185	8.63	UG/L	#	87
41) Xylene (total)	14.02	106	17472	8.56	UG/L		97
42) Styrene	14.08	104	29605	9.07	UG/L		99

ASD 9/26/95

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

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01029.D
Acq On : 23 Aug 95 15:16
Sample : VSTD010
Misc : VSTD010
Quant Time: Aug 23 16:55 1995

Vial: 8
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) m/p-Xylene	13.27	106	35349	17.51 UG/L	98
45) 1,1,2,2-Tetrachloroethane	14.91	83	22037	8.72 UG/L	97

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

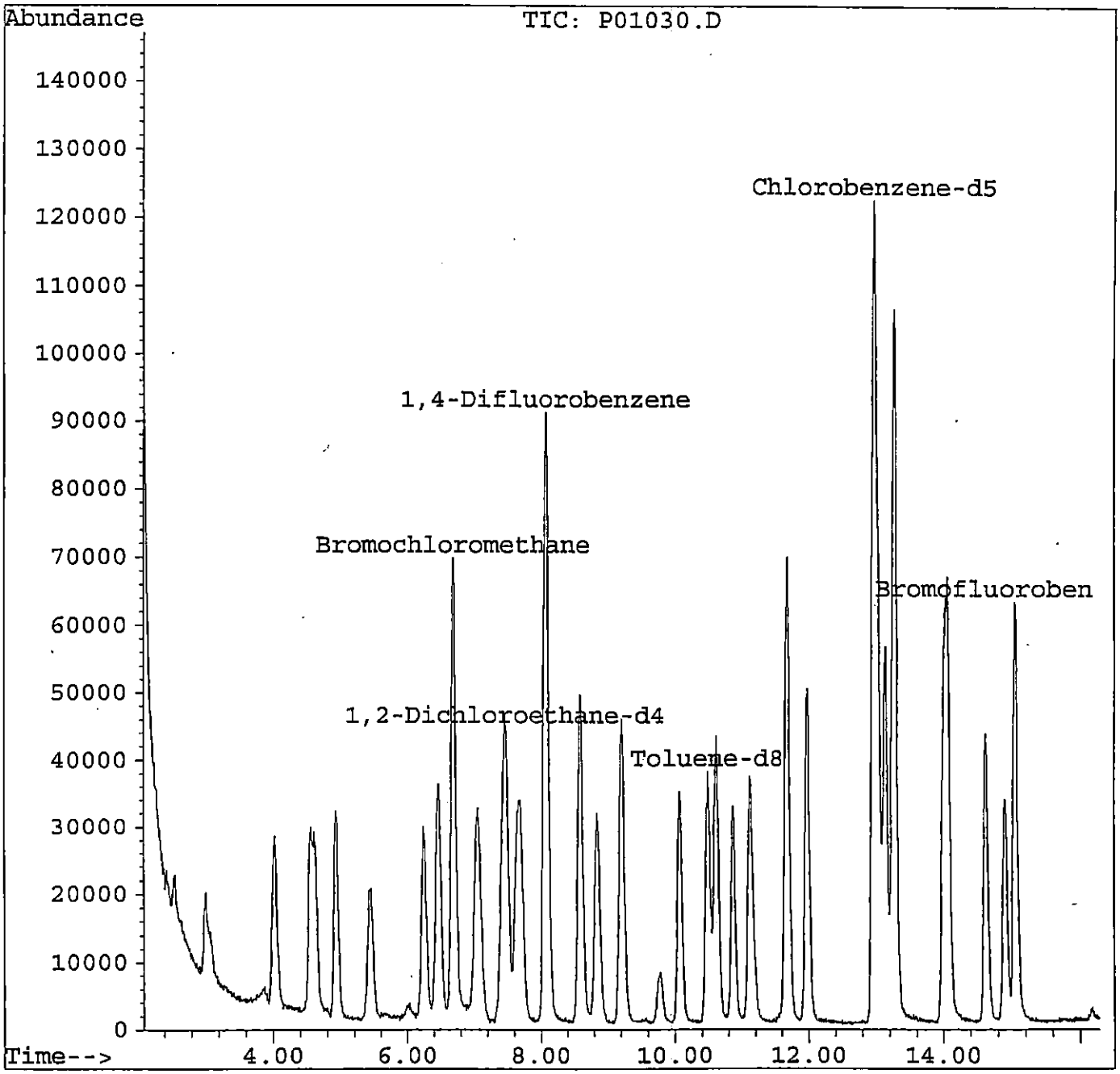
V-0081

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01030.D
Acq On : 23 Aug 95 3:40 pm
Sample : VSTD020
Misc : VSTD020
Quant Time: Aug 23 16:57 1995

Vial: 9
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0082

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01030.D
Acq On : 23 Aug 95 15:40
Sample : VSTD020
Misc : VSTD020
Quant Time: Aug 23 16:57 1995

Vial: 9
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.70	128	46120	50.00	UG/L		0.00
21) 1,4-Difluorobenzene	8.07	114	186862	50.00	UG/L		0.01
33) Chlorobenzene-d5	12.97	117	153742	50.00	UG/L		0.00
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.48	65	31098	18.72	UG/L		
34) Toluene-d8	10.49	98	63428	20.39	UG/L		
43) Bromofluorobenzene	15.06	95	53137	18.54	UG/L		
Target Compounds							Qvalue
2) Chloromethane	2.46	50	12213m	14.82	UG/L		91
3) Vinyl Chloride	2.57	62	14857m	14.08	UG/L		98
4) Bromomethane	3.01	94	22246m	14.84	UG/L		93
5) Chloroethane	3.08	64	11828m	16.58	UG/L		95
6) 1,1-Dichloroethene	4.03	96	24093	14.39	UG/L	#	87
7) Carbon Disulfide	4.62	76	67796	13.86	UG/L	#	25
8) Acetone	3.87	43	7389m	17.14	UG/L		91
9) Methylene Chloride	4.57	84	27381	15.19	UG/L		86
13) trans-1,2-Dichloroethene	4.93	96	28102	14.31	UG/L		98
14) cis-,1,2-Dichloroethene	6.26	96	30866	14.78	UG/L		97
15) 1,2-Dichloroethene (total)	4.93	96	52738m	53.69	UG/L		85
16) 1,1-Dichloroethane	5.45	63	49966	14.32	UG/L		95
17) Chloroform	6.48	83	71618	15.33	UG/L		90
19) 1,2-Dichloroethane	7.63	62	43451	14.82	UG/L		94
20) 2-Butanone	6.00	43	6600m	14.42	UG/L		83
22) 1,1,1-Trichloroethane	7.07	97	69905	15.31	UG/L		93
23) Carbon Tetrachloride	7.44	117	70937	15.74	UG/L		92
24) Trichloroethene	8.60	130	43601	15.92	UG/L		90
25) Benzene	7.69	78	67064	17.10	UG/L		98
26) 1,2-Dichloropropane	8.86	63	29494	15.51	UG/L		88
27) Bromodichloromethane	9.21	83	78397	15.62	UG/L		98
28) cis-1,3-Dichloropropene	10.06	75	46717	15.71	UG/L		94
29) trans-1,3-Dichloropropene	10.87	75	40851	15.33	UG/L		94
30) 1,1,2-Trichloroethane	11.13	97	27729	15.51	UG/L		97
31) Dibromochloromethane	11.99	129	65312	15.38	UG/L		97
32) Bromoform	14.63	173	45470	15.47	UG/L		94
35) 4-Methyl-2-Pentanone	9.79	43	16184m	16.83	UG/L		94
36) Toluene	10.62	91	76790	17.32	UG/L		99
37) Tetrachloroethene	11.68	164	43328	16.42	UG/L		94
38) 2-Hexanone	11.18	43	14033	15.81	UG/L		94
39) Chlorobenzene	13.04	112	70393	16.98	UG/L		95
40) Ethylbenzene	13.14	106	29101	17.34	UG/L	#	80
41) Xylene (total)	14.03	106	35986	17.26	UG/L		96
42) Styrene	14.07	104	63006	18.91	UG/L		97

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

V 0083

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01030.D
Acq On : 23 Aug 95 15:40
Sample : VSTD020
Misc : VSTD020
Quant Time: Aug 23 16:57 1995

Vial: 9
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) m/p-Xylene	13.28	106	72701	35.25 UG/L	96
45) 1,1,2,2-Tetrachloroethane	14.92	83	45104	17.48 UG/L	93

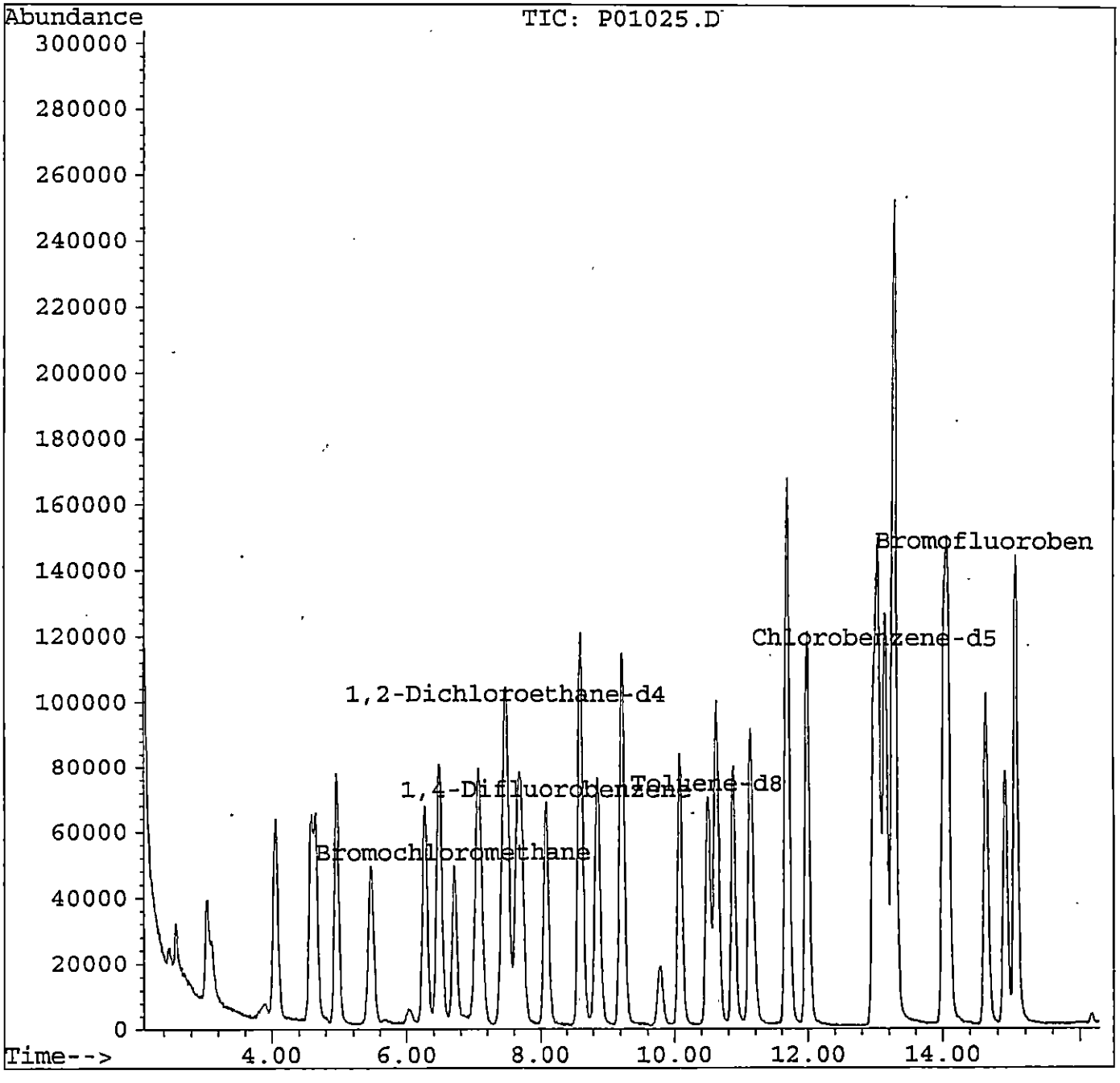
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01025.D
Acq On : 23 Aug 95 1:23 pm
Sample : VSDT050
Misc : VSTD050
Quant Time: Aug 23 15:59 1995

Vial: 6
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0085

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01025.D
Acq On : 23 Aug 95 13:23
Sample : VSDT050
Misc : VSTD050
Quant Time: Aug 23 15:59 1995

Vial: 6
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.71	128	32729	50.00	UG/L		0.00
21) 1,4-Difluorobenzene	8.08	114	143230	50.00	UG/L		0.00
33) Chlorobenzene-d5	12.99	117	126074	50.00	UG/L		0.00
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.50	65	58951	50.00	UG/L		
34) Toluene-d8	10.50	98	127520	50.00	UG/L		
43) Bromofluorobenzene	15.08	95	117522	50.00	UG/L		
Target Compounds							Qvalue
2) Chloromethane	2.48	50	29497m	50.43	UG/L		88
3) Vinyl Chloride	2.58	62	37817m	50.51	UG/L		88
4) Bromomethane	3.04	94	53182	50.00	UG/L		95
5) Chloroethane	3.11	64	25315	50.00	UG/L		89
6) 1,1-Dichloroethene	4.05	96	59418	50.00	UG/L	#	84
7) Carbon Disulfide	4.65	76	173592	50.00	UG/L	#	25
8) Acetone	3.91	43	15293	50.00	UG/L		87
9) Methylene Chloride	4.59	84	63972	50.00	UG/L	#	83
13) trans-1,2-Dichloroethene	4.96	96	69695	50.00	UG/L		97
14) cis-,1,2-Dichloroethene	6.28	96	74119	50.00	UG/L		97
15) 1,2-Dichloroethene (total)	4.96	96	69704	100.00	UG/L	#	86
16) 1,1-Dichloroethane	5.48	63	123831	50.00	UG/L		99
17) Chloroform	6.50	83	165762	50.00	UG/L		90
19) 1,2-Dichloroethane	7.64	62	104065	50.00	UG/L		94
20) 2-Butanone	6.03	43	16240	50.00	UG/L		86
22) 1,1,1-Trichloroethane	7.08	97	174941	50.00	UG/L		94
23) Carbon Tetrachloride	7.46	117	172713	50.00	UG/L		97
24) Trichloroethene	8.61	130	104941	50.00	UG/L		93
25) Benzene	7.70	78	150277	50.00	UG/L		90
26) 1,2-Dichloropropane	8.86	63	72872	50.00	UG/L		96
27) Bromodichloromethane	9.24	83	192349	50.00	UG/L		97
28) cis-1,3-Dichloropropene	10.08	75	113955	50.00	UG/L		91
29) trans-1,3-Dichloropropene	10.87	75	102124	50.00	UG/L		95
30) 1,1,2-Trichloroethane	11.13	97	68538	50.00	UG/L		94
31) Dibromochloromethane	11.99	129	162776	50.00	UG/L		99
32) Bromoform	14.65	173	112648	50.00	UG/L		95
35) 4-Methyl-2-Pentanone	9.79	43	39421	50.00	UG/L		95
36) Toluene	10.63	91	181772	50.00	UG/L		98
37) Tetrachloroethene	11.69	164	108211	50.00	UG/L		90
38) 2-Hexanone	11.19	43	36387	50.00	UG/L		95
39) Chlorobenzene	13.04	112	169998	50.00	UG/L		97
40) Ethylbenzene	13.16	106	68800	50.00	UG/L		95
41) Xylene (total)	14.03	106	85467	50.00	UG/L		96
42) Styrene	14.09	104	136630	50.00	UG/L		91

dso 9/26/95

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

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01025.D
Acq On : 23 Aug 95 13:23
Sample : VSDT050
Misc : VSTD050
Quant Time: Aug 23 15:59 1995

Vial: 6
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	m/p-Xylene	13.29	106	169105	100.00	UG/L	91
45)	1,1,2,2-Tetrachloroethane	14.92	83	105814	50.00	UG/L	90

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

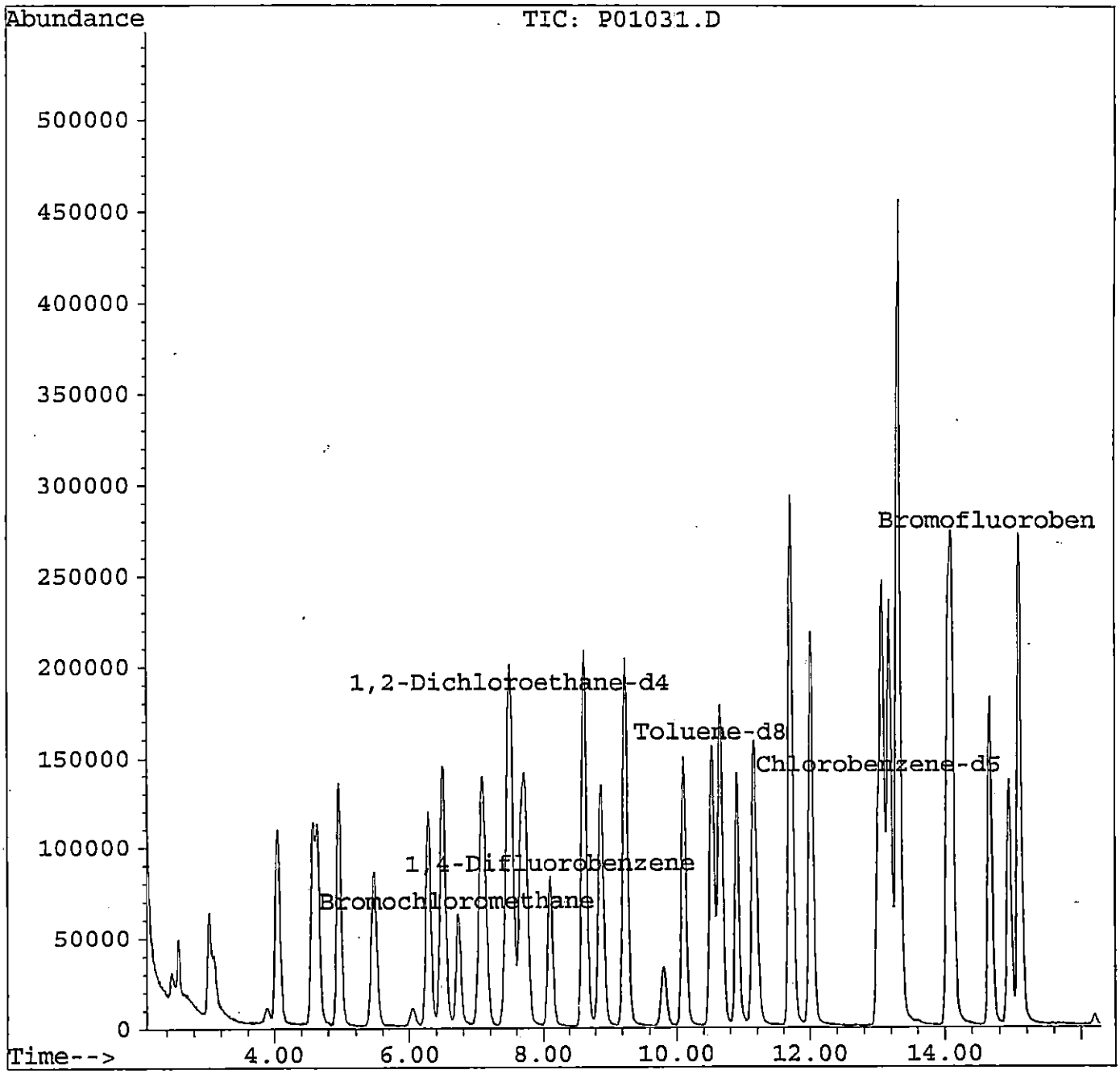
V 0087

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01031.D
Acq On : 23 Aug 95 4:04 pm
Sample : VSTD100
Misc : VSTD100
Quant Time: Aug 23 16:54 1995

Vial: 10
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0088

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01031.D
Acq On : 23 Aug 95 16:04
Sample : VSTD100
Misc : VSTD100
Quant Time: Aug 23 16:54 1995

Vial: 10
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.74	128	41677	50.00	UG/L		0.03
21) 1,4-Difluorobenzene	8.12	114	169466	50.00	UG/L		0.03
33) Chlorobenzene-d5	13.02	117	135204	50.00	UG/L		0.03
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.53	65	138754	92.42	UG/L		
34) Toluene-d8	10.53	98	285196	104.27	UG/L		
43) Bromofluorobenzene	15.11	95	227776	90.36	UG/L		
Target Compounds							Qvalue
2) Chloromethane	2.48	50	49654m	66.66	UG/L		92
3) Vinyl Chloride	2.57	62	63908m	67.03	UG/L		94
4) Bromomethane	3.03	94	101075	74.63	UG/L		97
5) Chloroethane	3.11	64	51334m	79.62	UG/L		94
6) 1,1-Dichloroethene	4.05	96	106180	70.17	UG/L		91
7) Carbon Disulfide	4.65	76	303252	68.59	UG/L	#	27
8) Acetone	3.89	43	30346	77.91	UG/L		88
9) Methylene Chloride	4.59	84	115283	70.76	UG/L	#	82
13) trans-1,2-Dichloroethene	4.96	96	125496	70.70	UG/L		98
14) cis-,1,2-Dichloroethene	6.28	96	134138	71.06	UG/L		97
15) 1,2-Dichloroethene (total)	4.96	96	232818m	262.30	UG/L		87
16) 1,1-Dichloroethane	5.48	63	221657	70.28	UG/L		98
17) Chloroform	6.51	83	310115	73.46	UG/L		94
19) 1,2-Dichloroethane	7.66	62	188171	71.00	UG/L		95
20) 2-Butanone	6.04	43	35733	86.40	UG/L		99
22) 1,1,1-Trichloroethane	7.10	97	311147	75.16	UG/L		93
23) Carbon Tetrachloride	7.48	117	320237	78.36	UG/L		94
24) Trichloroethene	8.63	130	188351	75.85	UG/L		88
25) Benzene	7.72	78	288563	81.15	UG/L		94
26) 1,2-Dichloropropane	8.89	63	130250	75.53	UG/L		93
27) Bromodichloromethane	9.25	83	352426	77.43	UG/L		96
28) cis-1,3-Dichloropropene	10.11	75	205303	76.13	UG/L		91
29) trans-1,3-Dichloropropene	10.90	75	179886	74.44	UG/L		94
30) 1,1,2-Trichloroethane	11.16	97	118143	72.84	UG/L		93
31) Dibromochloromethane	12.02	129	288886	75.00	UG/L		98
32) Bromoform	14.68	173	198831	74.59	UG/L		95
35) 4-Methyl-2-Pentanone	9.80	43	69620	82.34	UG/L		95
36) Toluene	10.65	91	337612	86.60	UG/L		97
37) Tetrachloroethene	11.72	164	183899	79.23	UG/L		96
38) 2-Hexanone	11.22	43	65412	83.81	UG/L		96
39) Chlorobenzene	13.08	112	297117	81.49	UG/L		98
40) Ethylbenzene	13.18	106	125653	85.15	UG/L	#	88
41) Xylene (total)	14.06	106	150980	82.36	UG/L		95
42) Styrene	14.13	104	262566	89.60	UG/L		98

KSO 9/26/97

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

V 0089

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01031.D
Acq On : 23 Aug 95 16:04
Sample : VSTD100
Misc : VSTD100
Quant Time: Aug 23 16:54 1995

Vial: 10
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) m/p-Xylene	13.32	106	305333	168.37 UG/L	98
45) 1,1,2,2-Tetrachloroethane	14.96	83	182259	80.31 UG/L	92

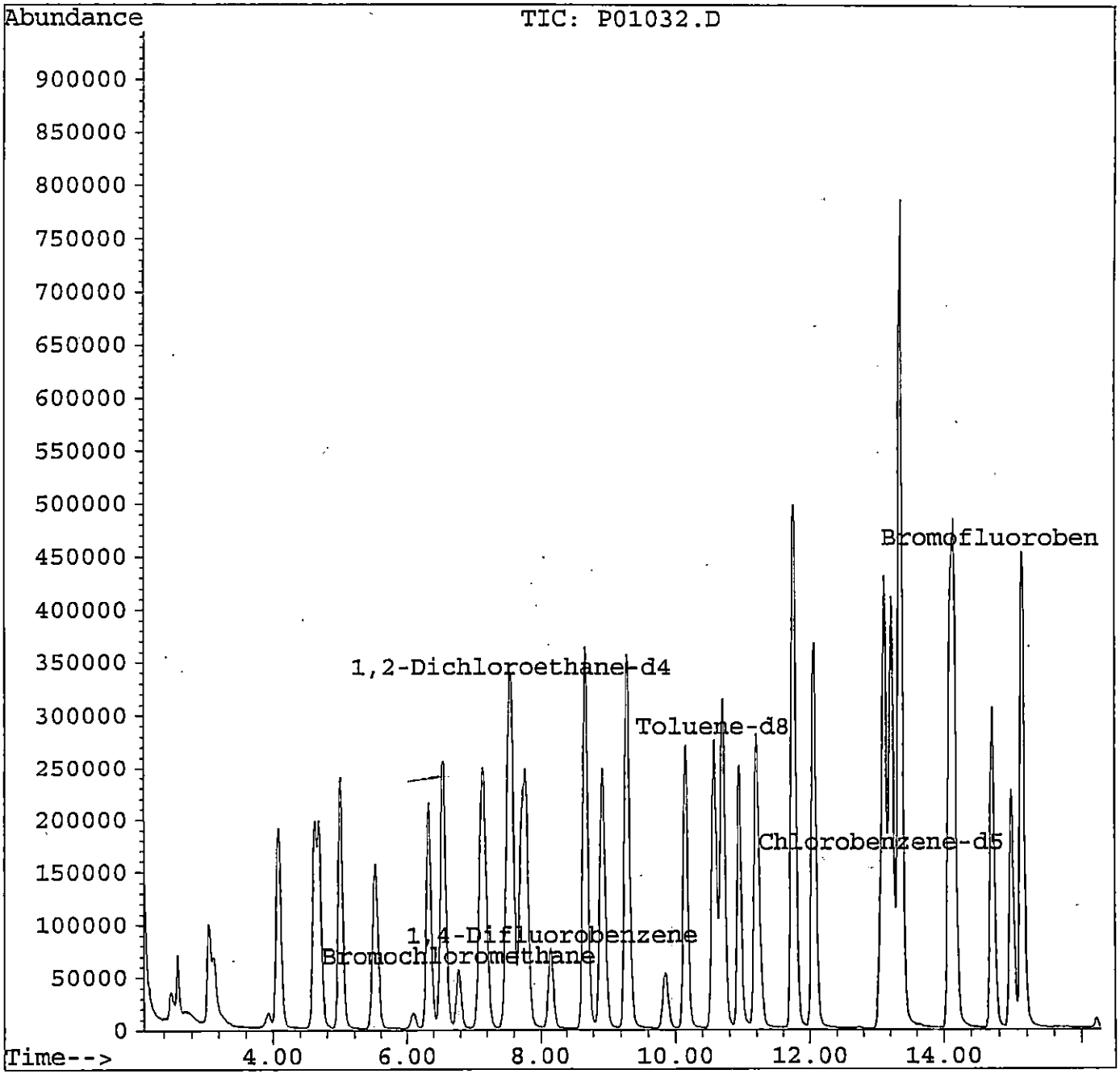
(#) = qualifier out of range (m) = manual integration V 0090

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01032.D
Acq On : 23 Aug 95 4:27 pm
Sample : VSTD200
Misc : VSTD200
Quant Time: Aug 23 16:52 1995

Vial: 11
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0091

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01032.D
Acq On : 23 Aug 95 16:27
Sample : VSTD200
Misc : VSTD200
Quant Time: Aug 23 16:52 1995

Vial: 11
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.79	128	38814	50.00	UG/L		0.09
21) 1,4-Difluorobenzene	8.16	114	151321	50.00	UG/L		0.09
33) Chlorobenzene-d5	13.06	117	113549	50.00	UG/L		0.09
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.57	65	229838	164.38	UG/L		
34) Toluene-d8	10.58	98	494113	215.11	UG/L		
43) Bromofluorobenzene	15.14	95	382033	180.47	UG/L	#	
Target Compounds							Qvalue
2) Chloromethane	2.51	50	88941m	128.21	UG/L		93
3) Vinyl Chloride	2.61	62	107725m	121.32	UG/L		95
4) Bromomethane	3.06	94	175366m	139.03	UG/L		92
5) Chloroethane	3.14	64	85669	142.68	UG/L		98
6) 1,1-Dichloroethene	4.09	96	186999	132.69	UG/L	#	87
7) Carbon Disulfide	4.70	76	549092	133.36	UG/L	#	26
8) Acetone	3.93	43	47657	131.39	UG/L		91
9) Methylene Chloride	4.63	84	203526	134.14	UG/L	#	82
13) trans-1,2-Dichloroethene	5.00	96	217029	131.29	UG/L		96
14) cis-,1,2-Dichloroethene	6.33	96	239530	136.25	UG/L		98
15) 1,2-Dichloroethene (total)	5.00	96	407016m	492.38	UG/L		83
16) 1,1-Dichloroethane	5.52	63	405664	138.12	UG/L		97
17) Chloroform	6.55	83	545574	138.77	UG/L		92
19) 1,2-Dichloroethane	7.71	62	325153	131.73	UG/L		96
20) 2-Butanone	6.09	43	55476	144.02	UG/L		99
22) 1,1,1-Trichloroethane	7.15	97	572065	154.76	UG/L		93
23) Carbon Tetrachloride	7.55	117	525787	144.08	UG/L		97
24) Trichloroethene	8.69	130	289231	130.44	UG/L	#	88
25) Benzene	7.78	78	466709	146.98	UG/L		90
26) 1,2-Dichloropropane	8.93	63	235323	152.83	UG/L		97
27) Bromodichloromethane	9.30	83	611815	150.53	UG/L		90
28) cis-1,3-Dichloropropene	10.16	75	365119	151.64	UG/L		91
29) trans-1,3-Dichloropropene	10.95	75	315728	146.32	UG/L		94
30) 1,1,2-Trichloroethane	11.20	97	211119	145.78	UG/L		96
31) Dibromochloromethane	12.07	129	504442	146.66	UG/L		98
32) Bromoform	14.72	173	337915	141.97	UG/L		96
35) 4-Methyl-2-Pentanone	9.85	43	114122	160.71	UG/L		97
36) Toluene	10.70	91	570933	174.37	UG/L		100
37) Tetrachloroethene	11.77	164	330190	169.40	UG/L	#	82
38) 2-Hexanone	11.25	43	103354	157.69	UG/L		94
39) Chlorobenzene	13.13	112	521193	170.20	UG/L		93
40) Ethylbenzene	13.23	106	203752	164.41	UG/L	#	65
41) Xylene (total)	14.10	106	248425	161.36	UG/L	#	88
42) Styrene	14.17	104	416186	169.10	UG/L		92

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

SDG 9/26/95

Quantitation Report

Data File : S:\MS\SJD\DATA1\P01032.D
Acq On : 23 Aug 95 16:27
Sample : VSTD200
Misc : VSTD200
Quant Time: Aug 23 16:52 1995

Vial: 11
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method :
Title :
Last Update :
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) m/p-Xylene	13.37	106	503607	330.66 UG/L #	86
45) 1,1,2,2-Tetrachloroethane	14.99	83	297394	156.03 UG/L	88

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

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Instrument ID: H5970 Calibration Date: 09/16/95 Time: 12:34

Lab File ID: P01213.D Init. Calib. Date(s): 08/23/95 08/23/95

Heated Purge: (Y/N) N Init. Calib. Times: 13:23 16:27

GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	0.689	1.030		-49.6	
Bromomethane	1.287	1.536	0.100	-19.3	25.0
Vinyl Chloride	0.859	0.946	0.100	-10.2	25.0
Chloroethane	0.643	0.806		-25.4	
Methylene Chloride	1.564	1.433		8.3	
Acetone	0.509	0.290		43.1	
Carbon Disulfide	3.987	4.365		-9.5	
1,1-Dichloroethene	1.389	1.454	0.100	-4.7	25.0
1,1-Dichloroethane	2.910	2.839	0.200	2.4	25.0
1,2-Dichloroethene (total)	1.340	1.554		-16.0	
Chloroform	4.035	3.906	0.200	3.2	25.0
1,2-Dichloroethane	2.434	2.050	0.100	15.8	25.0
2-Butanone	0.426	0.298		30.2	
1,1,1-Trichloroethane	0.969	1.018	0.100	-5.0	25.0
Carbon Tetrachloride	0.977	1.076	0.100	-10.1	25.0
Bromodichloromethane	1.089	0.983	0.200	9.8	25.0
1,2-Dichloropropane	0.414	0.388		6.3	
cis-1,3-Dichloropropene	0.640	0.559	0.200	12.7	25.0
Trichloroethene	0.585	0.569	0.300	2.6	25.0
Benzene	0.891	0.868	0.500	2.6	25.0
Dibromochloromethane	0.899	0.772	0.100	14.2	25.0
trans-1,3-Dichloropropene	0.560	0.460	0.100	17.8	25.0
1,1,2-Trichloroethane	0.378	0.303	0.100	19.9	25.0
Bromoform	0.620	0.527	0.100	15.0	25.0
4-Methyl-2-Pentanone	0.269	0.227		15.6	
2-Hexanone	0.247	0.214		13.5	
Tetrachloroethene	0.736	0.710	0.200	3.5	25.0
1,1,2,2-Tetrachloroethane	0.727	0.586	0.500	19.4	25.0
Toluene	1.291	1.275	0.400	1.3	25.0
Chlorobenzene	1.181	1.089	0.500	7.9	25.0
Ethylbenzene	0.481	0.461	0.100	4.1	25.0
Styrene	0.996	0.937	0.300	5.9	25.0
Xylene (total)	0.590	0.565	0.300	4.2	25.0
1,2-Dichloroethane-d4	1.713	1.593		7.0	
Toluene-d8	1.090	1.113		-2.2	
Bromofluorobenzene	0.906	0.961	0.200	-6.1	25.0

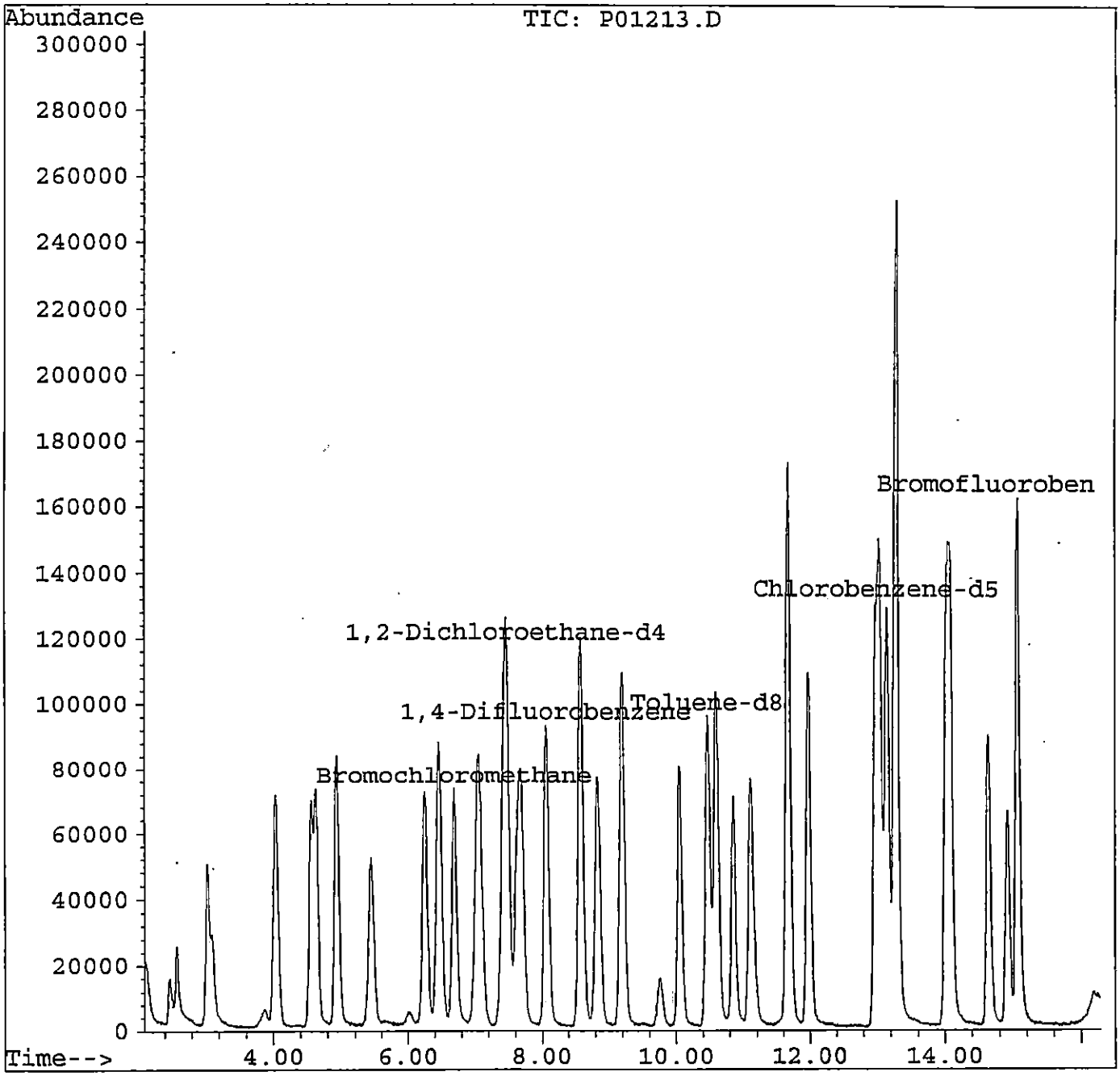
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01213.D
Acq On : 16 Sep 95 12:34 pm
Sample : standard
Misc : 50 ppb
Quant Time: Sep 16 12:54 1995

Vial: 3
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0095

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01213.D
Acq On : 16 Sep 95 12:34
Sample : standard
Misc : 50 ppb
Quant Time: Sep 16 12:54 1995

Vial: 3
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Thu Sep 14 12:14:56 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01213.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.70	128	45966	50.00	UG/L		0.00
21) 1,4-Difluorobenzene	8.07	114	184556	50.00	UG/L		-0.01
33) Chlorobenzene-d5	12.99	117	145963	50.00	UG/L		0.02
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.48	65	73238	59.46	UG/L		
34) Toluene-d8	10.48	98	162501	57.41	UG/L		
43) Bromofluorobenzene	15.08	95	140334	52.64	UG/L	#	
Target Compounds							Qvalue
2) Chloromethane	2.48	50	47357	97.90	UG/L		100
3) Vinyl Chloride	2.58	62	43494	68.05	UG/L		92
4) Bromomethane	3.02	94	70588	75.18	UG/L		100
5) Chloroethane	3.11	64	37038	66.79	UG/L		89
6) 1,1-Dichloroethene	4.04	96	66817	58.85	UG/L	#	83
7) Carbon Disulfide	4.64	76	200627	67.49	UG/L	#	27
8) Acetone	3.88	43	13332	41.19	UG/L		83
9) Methylene Chloride	4.56	84	65887	48.57	UG/L	#	70
13) trans-1,2-Dichloroethene	4.93	96	73648	52.60	UG/L		92
14) cis-,1,2-Dichloroethene	6.26	96	77225	48.23	UG/L		93
15) 1,2-Dichloroethene (total)	4.93	96	142869m	203.43	UG/L		78
16) 1,1-Dichloroethane	5.45	63	130489	47.42	UG/L		97
17) Chloroform	6.46	83	179562	47.71	UG/L		91
19) 1,2-Dichloroethane	7.62	62	94218	45.88	UG/L		93
20) 2-Butanone	6.02	43	13681	43.14	UG/L		68
22) 1,1,1-Trichloroethane	7.05	97	187796	47.39	UG/L		94
23) Carbon Tetrachloride	7.45	117	198527	50.92	UG/L		94
24) Trichloroethene	8.58	130	105079	50.11	UG/L		87
25) Benzene	7.69	78	160136	50.95	UG/L		93
26) 1,2-Dichloropropane	8.84	63	71575	44.72	UG/L		92
27) Bromodichloromethane	9.20	83	181329	45.21	UG/L		97
28) cis-1,3-Dichloropropene	10.05	75	103191	44.68	UG/L		86
29) trans-1,3-Dichloropropene	10.86	75	84959	43.85	UG/L		90
30) 1,1,2-Trichloroethane	11.11	97	55922	43.50	UG/L		91
31) Dibromochloromethane	11.99	129	142380	44.28	UG/L		98
32) Bromoform	14.64	173	97210	43.62	UG/L		95
35) 4-Methyl-2-Pentanone	9.77	43	33185	39.10	UG/L		91
36) Toluene	10.61	91	186085	47.21	UG/L		96
37) Tetrachloroethene	11.68	164	103678	45.00	UG/L		96
38) 2-Hexanone	11.17	43	31225	40.72	UG/L		94
39) Chlorobenzene	13.05	112	158900	44.42	UG/L		91
40) Ethylbenzene	13.15	106	67261	46.16	UG/L		99
41) Xylene (total)	14.04	106	82470	44.81	UG/L		90
42) Styrene	14.09	104	136712	46.69	UG/L		90

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

V 0096

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01213.D
Acq On : 16 Sep 95 12:34
Sample : standard
Misc : 50 ppb
Quant Time: Sep 16 12:54 1995

Vial: 3
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Thu Sep 14 12:14:56 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01213.D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) m/p-Xylene	13.29	106	166311	93.67 UG/L	91
45) 1,1,2,2-Tetrachloroethane	14.93	83	85492	40.84 UG/L	93

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

V 00097

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Instrument ID: H5970 Calibration Date: 09/17/95 Time: 11:32

Lab File ID: P01226.D Init. Calib. Date(s): 08/23/95 08/23/95

Heated Purge: (Y/N) N Init. Calib. Times: 13:23 16:27

GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	0.689	0.904		-31.3	
Bromomethane	1.287	1.449	0.100	-12.6	25.0
Vinyl Chloride	0.859	0.891	0.100	-3.7	25.0
Chloroethane	0.643	0.758		-18.0	
Methylene Chloride	1.564	1.412		9.7	
Acetone	0.509	0.425		16.5	
Carbon Disulfide	3.987	3.969		0.5	
1,1-Dichloroethene	1.389	1.361	0.100	2.0	25.0
1,1-Dichloroethane	2.910	2.853	0.200	2.0	25.0
1,2-Dichloroethene (total)	1.340	1.471		-9.7	
Chloroform	4.035	3.794	0.200	6.0	25.0
1,2-Dichloroethane	2.434	2.093	0.100	14.0	25.0
2-Butanone	0.426	0.328		23.0	
1,1,1-Trichloroethane	0.969	0.983	0.100	-1.4	25.0
Carbon Tetrachloride	0.977	1.058	0.100	-8.4	25.0
Bromodichloromethane	1.089	0.994	0.200	8.7	25.0
1,2-Dichloropropane	0.414	0.389		6.0	
cis-1,3-Dichloropropene	0.640	0.563	0.200	12.1	25.0
Trichloroethene	0.585	0.551	0.300	5.9	25.0
Benzene	0.891	0.882	0.500	1.0	25.0
Dibromochloromethane	0.899	0.792	0.100	11.9	25.0
trans-1,3-Dichloropropene	0.560	0.467	0.100	16.6	25.0
1,1,2-Trichloroethane	0.378	0.313	0.100	17.4	25.0
Bromoform	0.620	0.534	0.100	13.9	25.0
4-Methyl-2-Pentanone	0.269	0.262		2.9	
2-Hexanone	0.247	0.243		1.9	
Tetrachloroethene	0.736	0.695	0.200	5.6	25.0
1,1,2,2-Tetrachloroethane	0.727	0.620	0.500	14.7	25.0
Toluene	1.291	1.271	0.400	1.5	25.0
Chlorobenzene	1.181	1.074	0.500	9.1	25.0
Ethylbenzene	0.481	0.439	0.100	8.7	25.0
Styrene	0.996	0.934	0.300	6.3	25.0
Xylene (total)	0.590	0.543	0.300	7.9	25.0
1,2-Dichloroethane-d4	1.713	1.627		5.0	
Toluene-d8	1.090	1.111		-1.9	
Bromofluorobenzene	0.906	0.974	0.200	-7.5	25.0

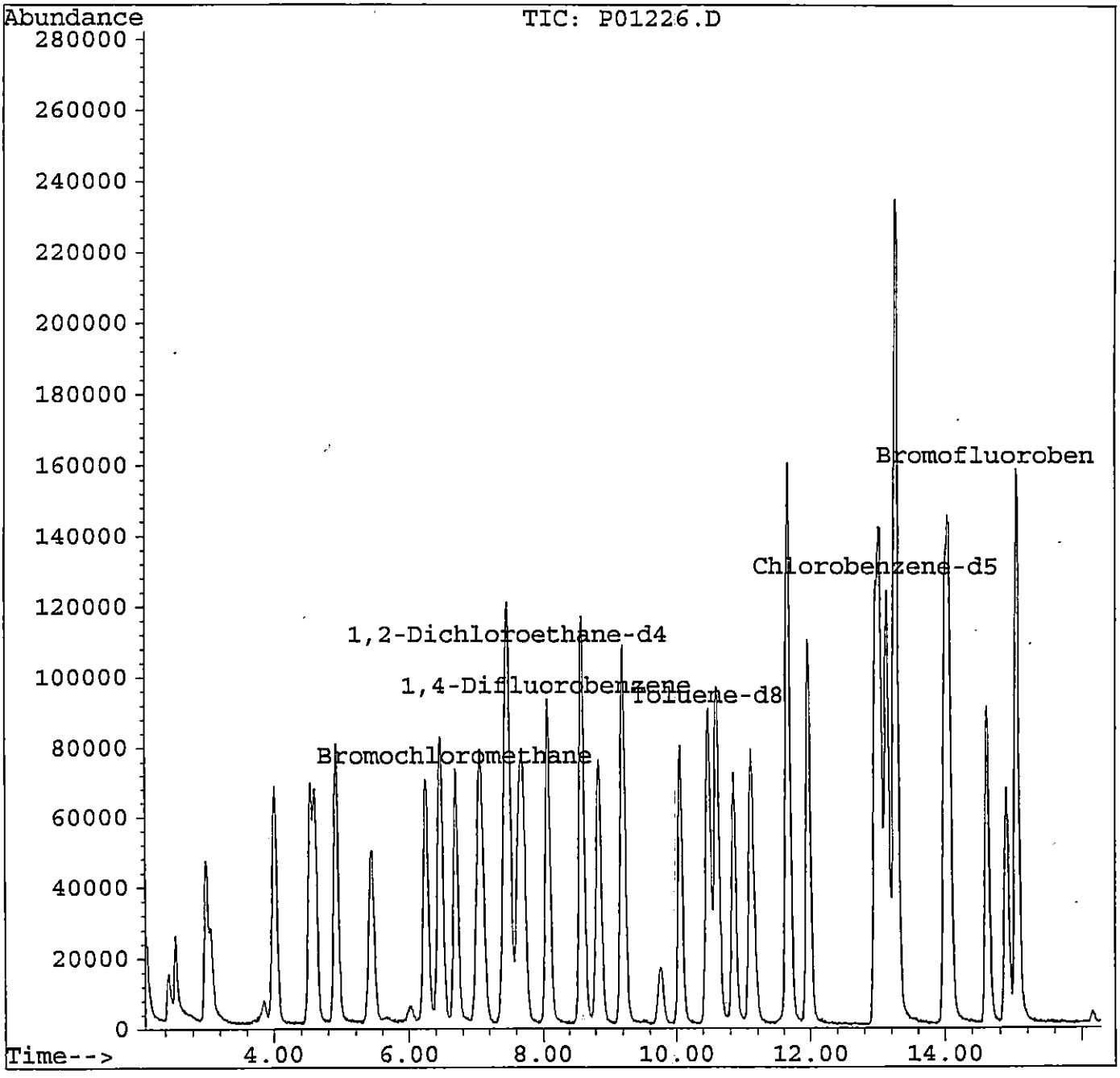
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01226.D
Acq On : 17 Sep 95 11:32 am
Sample : STANDARD 50PPB
Misc :
Quant Time: Sep 17 13:37 1995

Vial: 4
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0099

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01226.D
Acq On : 17 Sep 95 11:32
Sample : STANDARD 50PPB
Misc :
Quant Time: Sep 17 13:37 1995

Vial: 4
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sat Sep 16 12:56:09 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01213.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.71	128	45513	50.00	UG/L		0.00
21) 1,4-Difluorobenzene	8.08	114	176400	50.00	UG/L		0.01
33) Chlorobenzene-d5	12.98	117	138420	50.00	UG/L		0.00
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.50	65	74062	51.07	UG/L		
34) Toluene-d8	10.48	98	153773	49.89	UG/L		
43) Bromofluorobenzene	15.06	95	134844	50.66	UG/L	#	
Target Compounds							Qvalue
2) Chloromethane	2.45	50	41142	43.87	UG/L		89
3) Vinyl Chloride	2.55	62	40531	47.06	UG/L		97
4) Bromomethane	3.00	94	65951	47.18	UG/L		95
5) Chloroethane	3.07	64	34500	47.04	UG/L		88
6) 1,1-Dichloroethene	4.02	96	61960	46.83	UG/L	#	76
7) Carbon Disulfide	4.61	76	180618	45.46	UG/L	#	27
8) Acetone	3.85	43	19352	73.30	UG/L		83
9) Methylene Chloride	4.55	84	64274	49.26	UG/L	#	71
13) trans-1,2-Dichloroethene	4.92	96	70519	48.35	UG/L		90
14) cis-,1,2-Dichloroethene	6.26	96	74120	48.47	UG/L		93
15) 1,2-Dichloroethene (total)	4.92	96	133867m	94.63	UG/L		72
16) 1,1-Dichloroethane	5.45	63	129826	50.24	UG/L		99
17) Chloroform	6.48	83	172661	48.56	UG/L		90
19) 1,2-Dichloroethane	7.63	62	95257	51.05	UG/L		95
20) 2-Butanone	6.02	43	14938	55.14	UG/L		73
22) 1,1,1-Trichloroethane	7.07	97	173399	48.30	UG/L		91
23) Carbon Tetrachloride	7.46	117	186684	49.19	UG/L		97
24) Trichloroethene	8.59	130	97113	48.35	UG/L		86
25) Benzene	7.70	78	155560	50.82	UG/L		94
26) 1,2-Dichloropropane	8.86	63	68666	50.19	UG/L		93
27) Bromodichloromethane	9.21	83	175378	50.59	UG/L		91
28) cis-1,3-Dichloropropene	10.06	75	99268	50.32	UG/L		84
29) trans-1,3-Dichloropropene	10.86	75	82351	50.71	UG/L		92
30) 1,1,2-Trichloroethane	11.12	97	55144	51.58	UG/L		93
31) Dibromochloromethane	11.98	129	139733	51.34	UG/L		95
32) Bromoform	14.63	173	94141	50.66	UG/L		95
35) 4-Methyl-2-Pentanone	9.77	43	36223	57.55	UG/L		94
36) Toluene	10.62	91	175972	49.86	UG/L		99
37) Tetrachloroethene	11.67	164	96240	48.94	UG/L		93
38) 2-Hexanone	11.17	43	33610	56.75	UG/L		98
39) Chlorobenzene	13.04	112	148683	49.33	UG/L		88
40) Ethylbenzene	13.15	106	60750	47.62	UG/L	#	80
41) Xylene (total)	14.03	106	75214	48.09	UG/L	#	87
42) Styrene	14.08	104	129212	49.83	UG/L		96

ISD9/26/95

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01226.D
Acq On : 17 Sep 95 11:32
Sample : STANDARD 50PPB
Misc :
Quant Time: Sep 17 13:37 1995

Vial: 4
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sat Sep 16 12:56:09 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01213.D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) m/p-Xylene	13.28	106	155562	98.63 UG/L	91
45) 1,1,2,2-Tetrachloroethane	14.91	83	85801	52.92 UG/L	91

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

IV. RAW QC DATA PACKAGE FOR VOLATILE ORGANICS

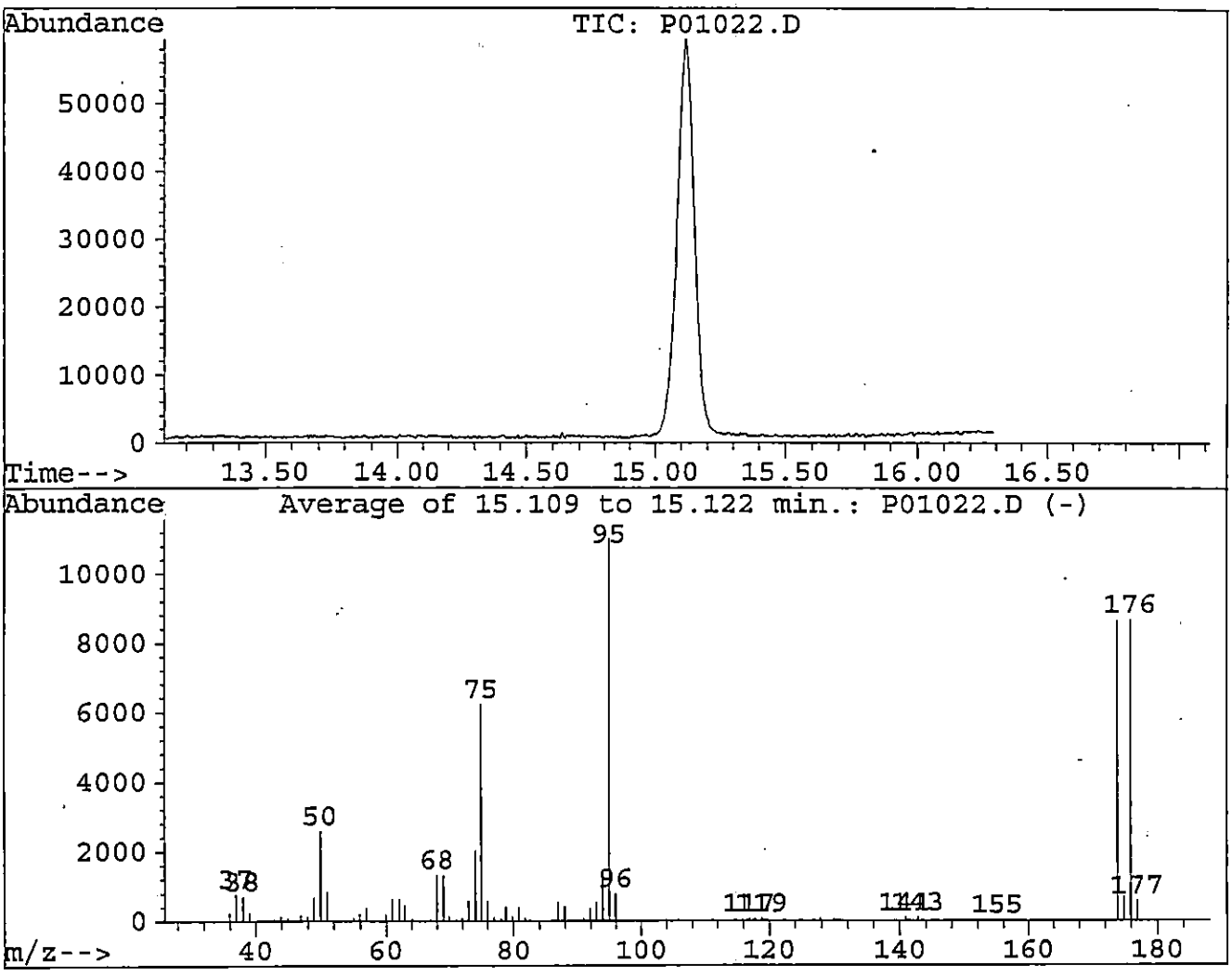
A. TUNING
B. BLANK
C. MATRIX SPIKE BLANK
D. SPIKE AND SPIKE DUPLICATE
E. COPY OF CALCULATIONS

BFB

Data File : S:\MS\SJD\DATA1\P01022.D
Acq On : 23 Aug 95 11:19 am
Sample : 50 NG BFB
Misc : 50 NG BFB

Vial: 1
Operator: RML
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD

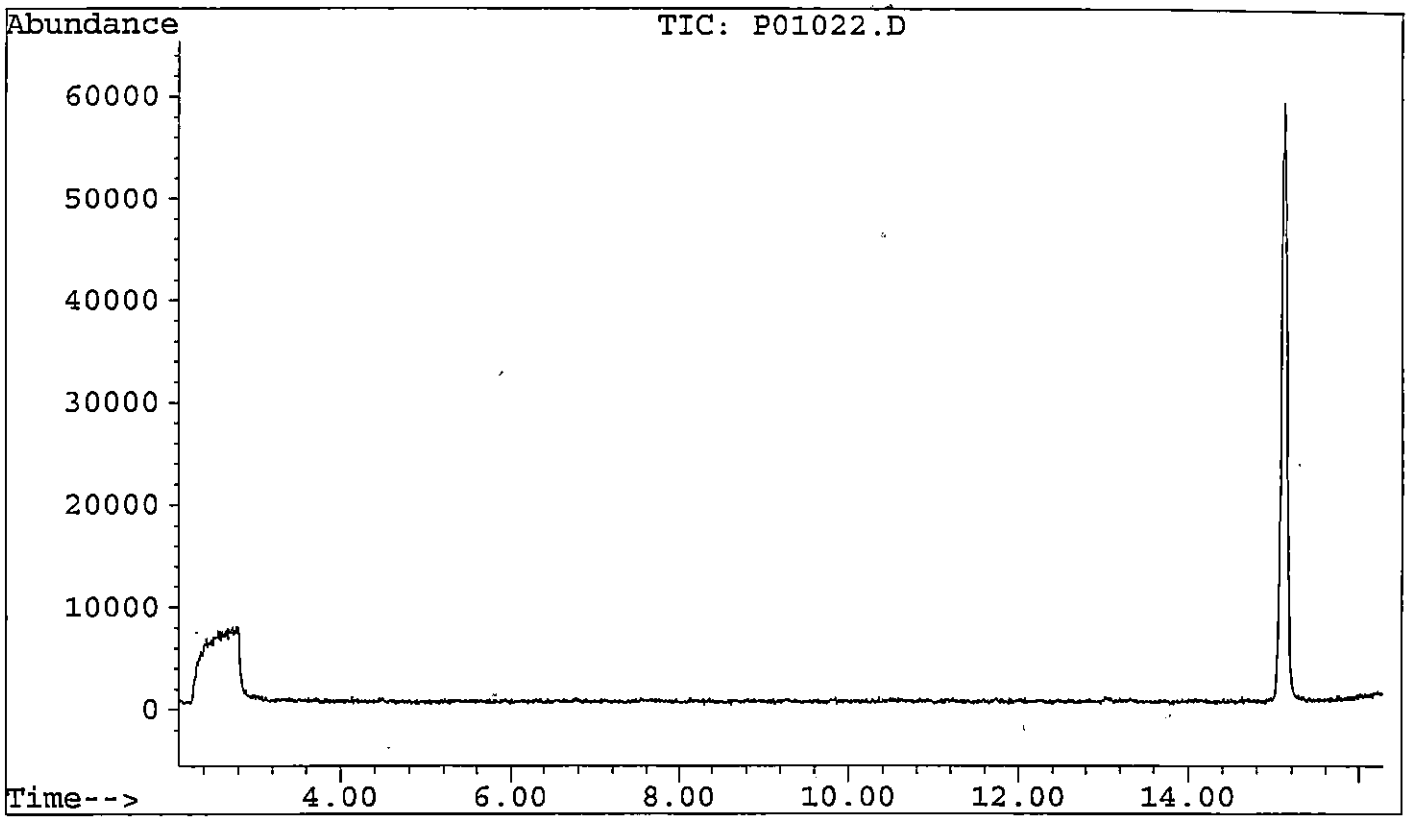


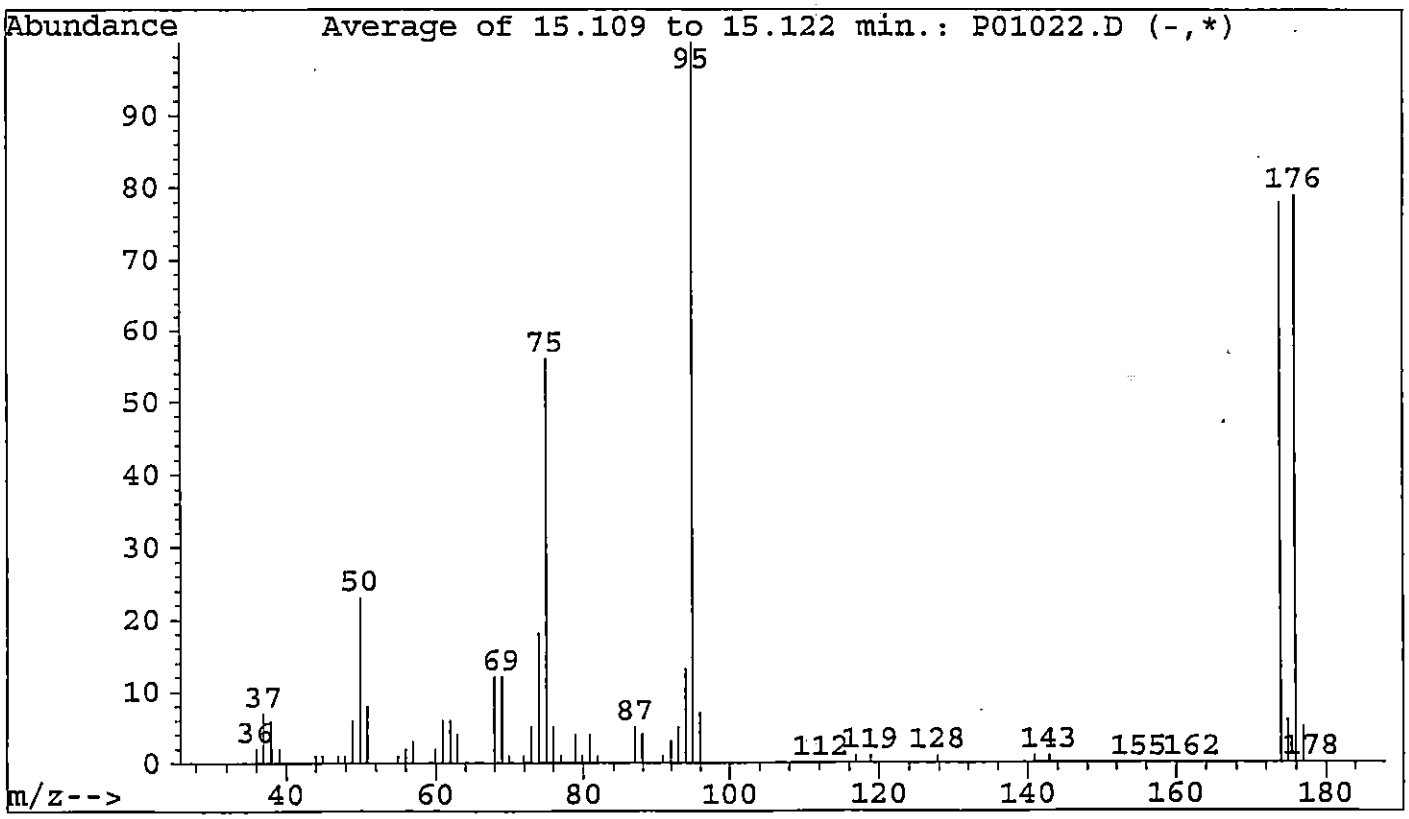
Scans Used: 2056 2057 2058 Bkg: 2031

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	2569	PASS
75	95	30	60	56.4	6218	PASS
95	95	100	100	100.0	11026	PASS
96	95	5	9	7.1	781	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.4	8640	PASS
175	174	5	9	8.3	713	PASS
176	174	95	101	100.4	8672	PASS
177	176	5	9	6.7	580	PASS

P01022.D VEPAW3.M Tue Sep 26 23:27:03 1995 SJD

File : S:\MS\SJD\DATA1\P01022.D
Operator : RML
Acquired : 23 Aug 95 11:19 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 50 NG BFB
Misc Info : 50 NG BFB
Vial Number: 1





V 0104

Average of 15.109 to 15.122 min.: P01022.D

Modified:subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	2	48.95	6	62.90	4	75.00	56
36.95	7	49.95	23	64.05	0	76.00	5
38.00	6	50.95	8	64.70	0	76.95	1
39.05	2	51.95	0	66.95	0	78.05	0
40.95	0	52.60	0	68.00	12	78.85	4
42.85	0	54.95	1	69.00	12	79.85	1
43.95	1	55.95	2	69.95	1	80.85	4
44.95	1	56.90	3	71.15	0	81.85	1
46.25	0	59.95	2	71.95	1	84.65	0
46.95	1	60.95	6	72.95	5	85.95	0
47.90	1	62.00	6	74.00	18	86.90	5

Average of 15.109 to 15.122 min.: P01022.D

Modified:subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.90	4	105.85	0	127.85	1	142.85	1
88.65	0	106.75	0	128.90	0	143.85	0
90.80	1	106.95	0	129.85	0	144.05	0
91.95	3	108.85	0	130.80	0	144.85	0
92.95	5	110.80	0	130.95	0	145.90	0
93.95	13	112.20	0	134.80	0	147.90	0
94.95	100	114.70	0	135.00	0	148.15	0
95.95	7	115.80	0	136.90	0	154.55	0
103.95	0	116.90	1	139.90	0	154.85	0
104.85	0	117.75	0	140.90	1	155.05	0
105.65	0	118.85	1	141.75	0	156.90	0

Average of 15.109 to 15.122 min.: P01022.D

Modified:subtracted scaled

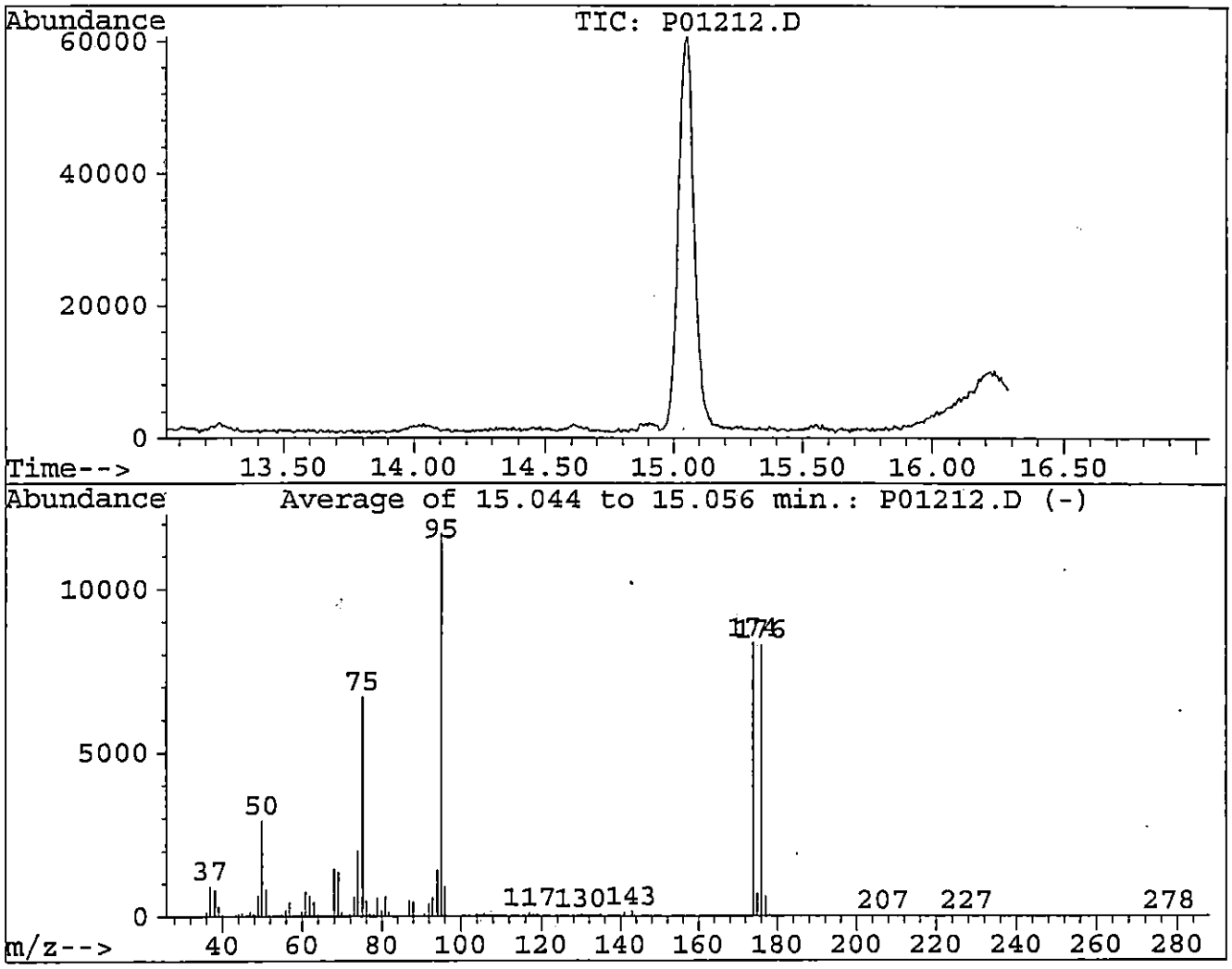
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
158.95	0						
160.75	0						
162.15	0						
171.90	0						
173.90	78						
174.90	6						
175.90	79						
176.90	5						
177.80	0						
178.00	0						

BFB

Data File : C:\HPCHEM\1\DATA\P01212.D
Acq On : 16 Sep 95 10:55 am
Sample : 50 NG BFB
Misc : 50 ppb

Vial: 2
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD



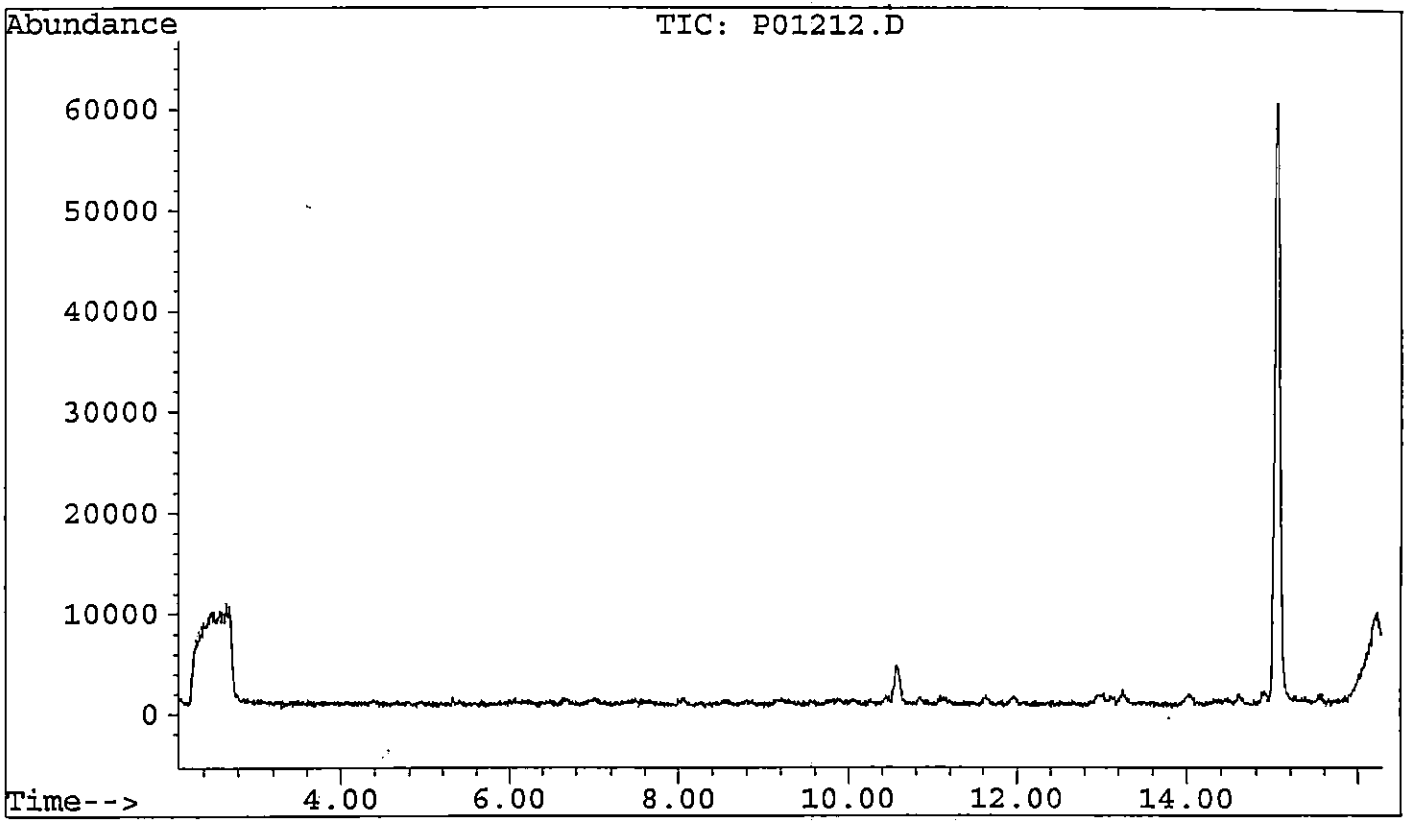
Scans Used: 2046 2047 2048 Bkg: 2030

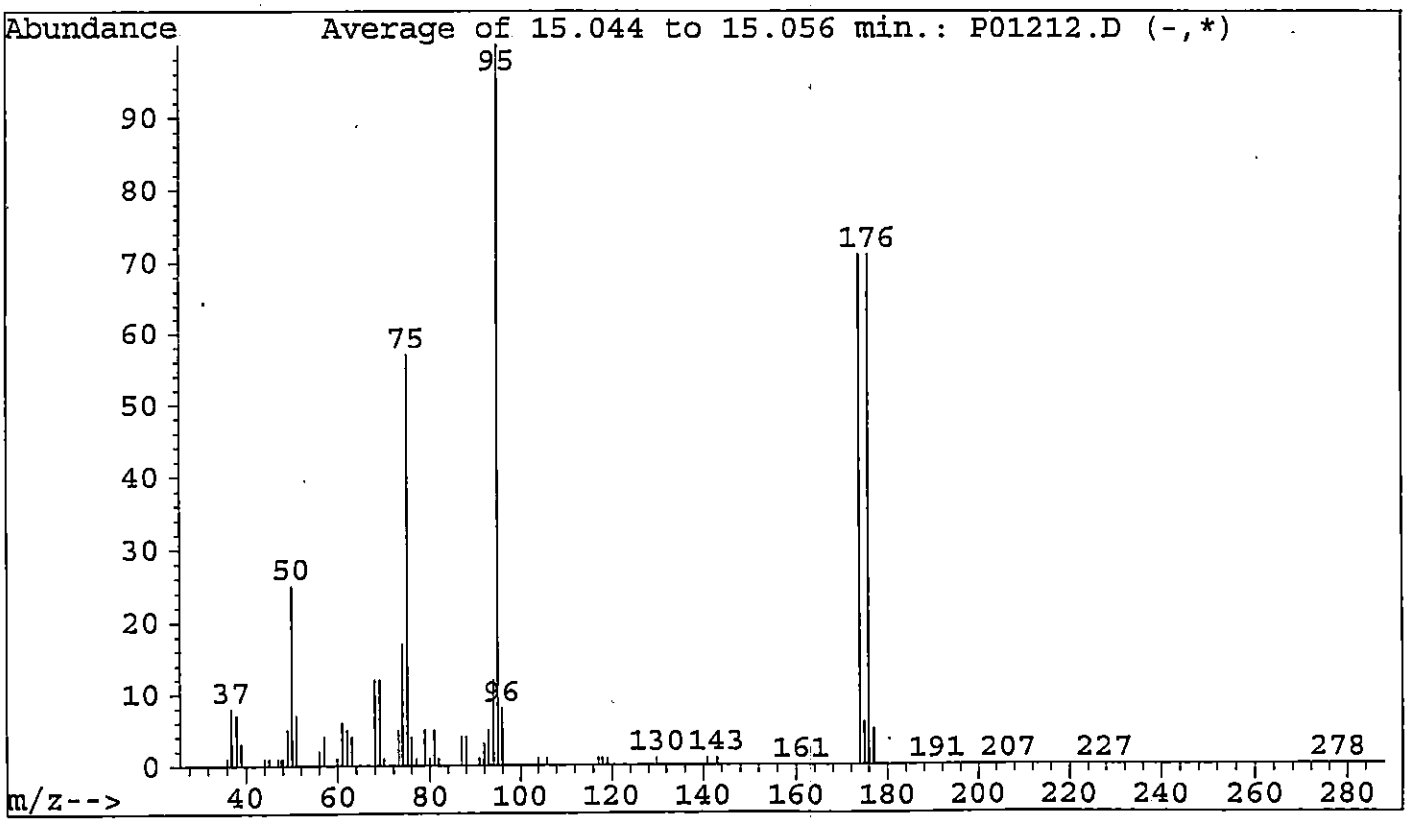
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	2920	PASS
75	95	30	60	57.3	6706	PASS
95	95	100	100	100.0	11703	PASS
96	95	5	9	7.6	894	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.3	8348	PASS
175	174	5	9	8.2	682	PASS
176	174	95	101	99.3	8290	PASS
177	176	5	9	7.2	598	PASS

P01212.D VEPAW3.M Tue Sep 26 23:29:13 1995 SJD

V 0106

File : C:\HPCHEM\1\DATA\P01212.D
Operator : MSD
Acquired : 16 Sep 95 10:55 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: 50 NG BFB
Misc Info : 50 ppb
Vial Number: 2





V 0107

Average of 15.044 to 15.056 min.: P01212.D

Modified:subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1	47.00	1	56.00	2	65.10	0
37.00	8	47.70	1	57.00	4	65.90	0
38.05	7	48.00	1	57.80	0	68.00	12
39.00	3	49.00	5	58.20	0	69.05	12
39.95	0	50.00	25	58.60	0	70.00	1
41.05	0	51.00	7	58.80	0	71.20	0
42.05	0	51.80	0	59.90	1	71.90	0
43.25	0	52.05	0	60.95	6	72.10	0
44.00	1	52.70	0	62.00	5	73.05	5
44.95	1	53.60	0	63.05	4	74.00	17
46.10	0	54.95	0	63.95	0	75.05	57

Average of 15.044 to 15.056 min.: P01212.D

Modified:subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.00	4	90.90	1	105.90	1	128.20	0
77.00	1	92.00	3	112.10	0	128.90	0
77.95	0	93.00	5	113.70	0	129.90	1
78.90	5	94.05	12	115.80	0	131.95	0
79.90	1	95.05	100	117.05	1	132.55	0
80.90	5	96.00	8	117.85	1	134.80	0
81.90	1	99.85	0	118.95	1	136.65	0
83.65	0	102.00	0	120.40	0	137.05	0
87.00	4	102.80	0	121.80	0	138.85	0
88.00	4	103.90	1	122.90	0	139.85	0
89.05	0	104.95	0	127.90	0	140.85	1

Average of 15.044 to 15.056 min.: P01212.D

Modified:subtracted scaled

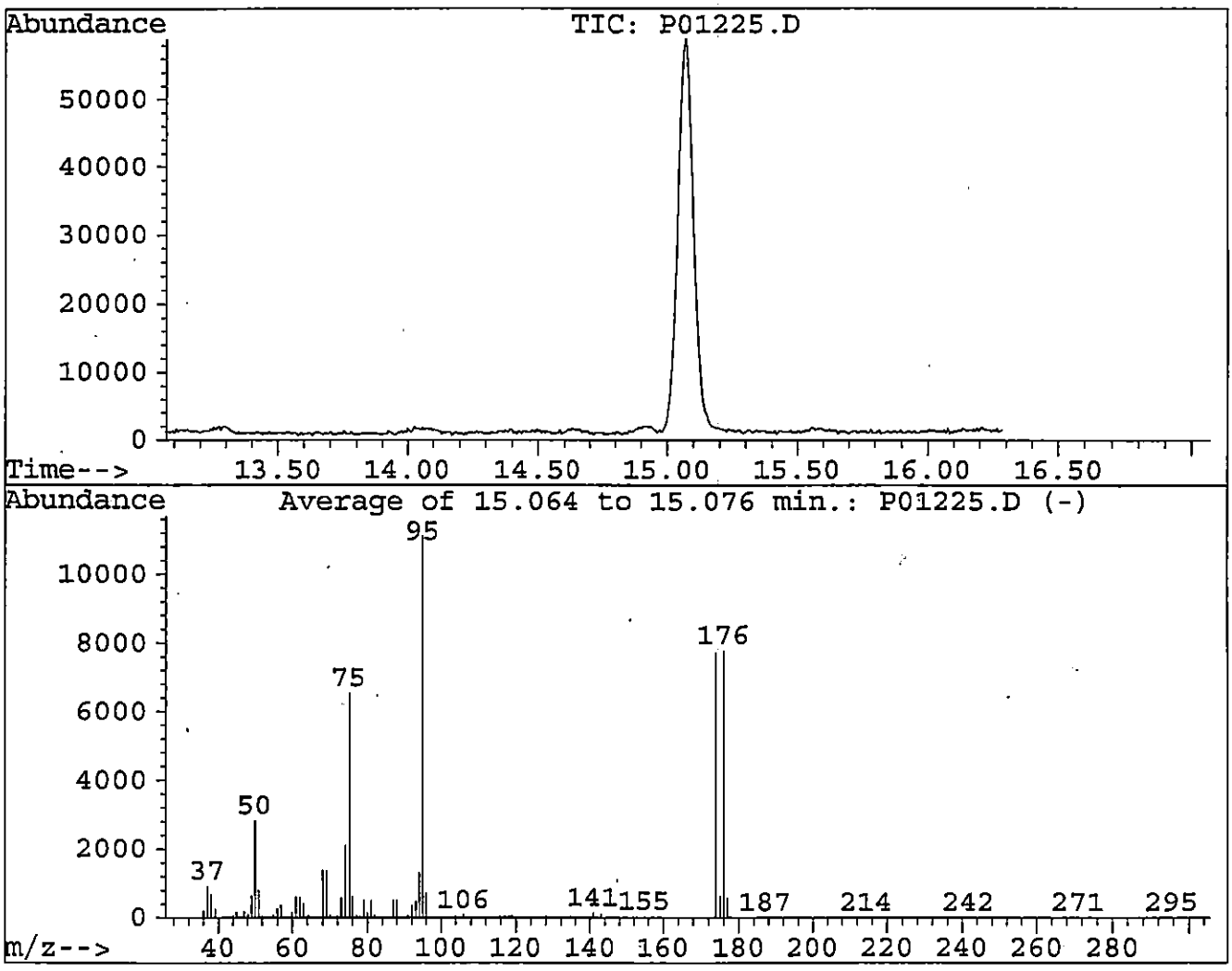
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
141.75	0	155.05	0	179.00	0		
142.95	1	156.65	0	184.70	0		
144.15	0	156.90	0	190.75	0		
144.95	0	158.80	0	206.65	0		
145.95	0	160.00	0	227.60	0		
147.90	0	161.10	0	274.30	0		
149.15	0	174.00	71	278.00	0		
150.55	0	175.00	6				
151.65	0	176.00	71				
152.95	0	176.95	5				
154.75	0	178.05	0				

BFB

Data File : C:\HPCHEM\1\DATA\P01225.D
Acq On : 17 Sep 95 11:11 am
Sample : BFB17 50 NG
Misc :

Vial: 3
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD

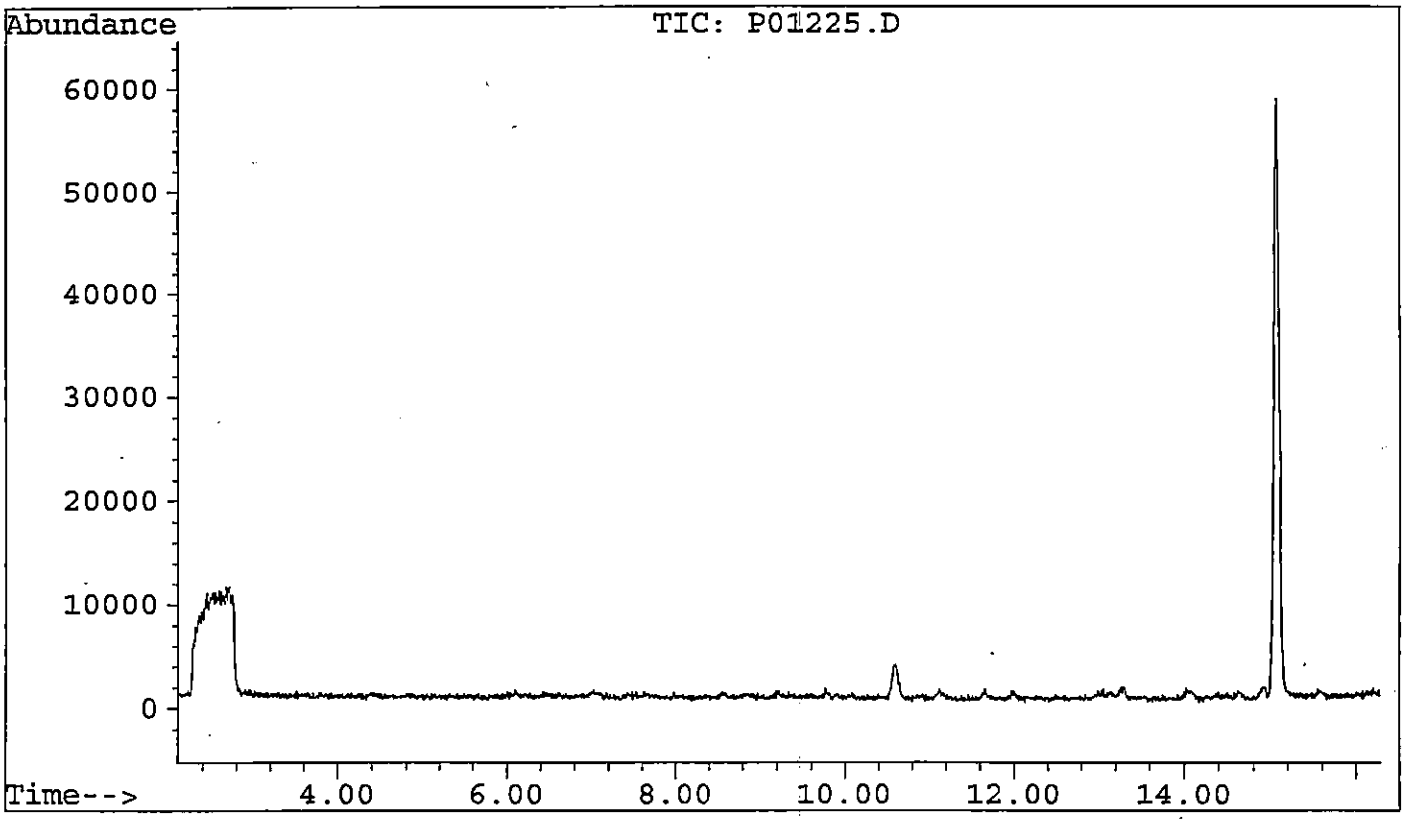


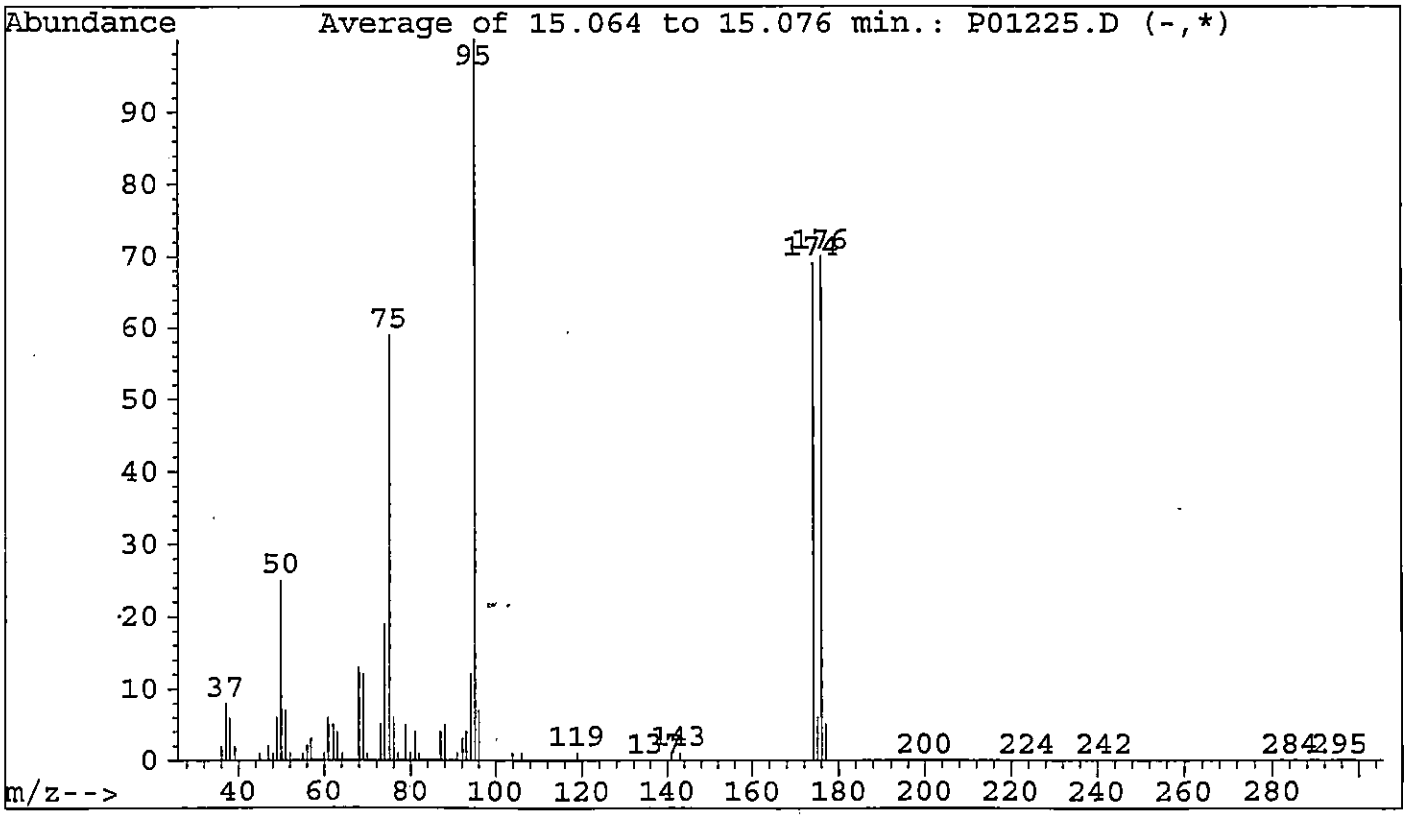
Scans Used: 2049 2050 2051 Bkg: 2031

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.4	2823	PASS
75	95	30	60	58.8	6550	PASS
95	95	100	100	100.0	11136	PASS
96	95	5	9	6.6	733	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.4	7726	PASS
175	174	5	9	8.2	632	PASS
176	174	95	101	100.8	7785	PASS
177	176	5	9	7.4	573	PASS

P01225.D VEPAW3.M Tue Sep 26 23:30:29 1995 SJD

File : C:\HPCHEM\1\DATA\P01225.D
Operator : MSD
Acquired : 17 Sep 95 11:11 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: BFB17 50 NG
Misc Info :
Vial Number: 3





Average of 15.064 to 15.076 min.: P01225.D

Modified:subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	2	45.90	0	56.00	2	67.10	0
37.05	8	47.00	2	57.00	3	68.00	13
38.00	6	47.90	0	57.95	0	69.00	12
39.05	2	48.05	1	58.60	0	69.95	1
40.55	0	49.00	6	59.10	0	71.10	0
41.25	0	50.00	25	60.00	1	71.90	0
42.05	0	51.00	7	60.95	6	72.10	0
42.25	0	51.95	1	62.05	5	73.00	5
43.05	0	53.00	0	63.00	4	74.00	19
44.00	0	54.00	0	64.15	1	75.05	59
45.00	1	54.95	1	64.70	0	76.00	6

Average of 15.064 to 15.076 min.: P01225.D

Modified:subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.75	0	88.65	0	106.90	0	125.20	0
77.00	1	90.90	1	109.70	0	125.70	0
77.95	0	92.05	3	111.90	0	125.90	0
78.85	5	93.05	4	113.10	0	126.10	0
79.90	1	94.05	12	114.30	0	127.90	0
80.95	4	95.05	100	115.00	0	129.80	0
81.85	1	96.00	7	115.80	0	130.00	0
82.65	0	103.90	1	116.85	0	130.65	0
84.75	0	104.75	0	118.05	0	134.80	0
86.95	4	105.00	0	118.90	1	136.75	0
88.00	5	105.95	1	121.50	0	137.05	0

Average of 15.064 to 15.076 min.: P01225.D

Modified:subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.35	0	153.95	0	176.00	70	284.20	0
140.90	1	154.90	0	177.00	5	295.60	0
141.90	0	155.25	0	177.80	0		
142.90	1	155.65	0	187.20	0		
143.85	0	155.95	0	197.15	0		
144.75	0	157.00	0	199.95	0		
145.90	0	159.00	0	214.45	0		
147.00	0	160.80	0	223.80	0		
147.85	0	168.50	0	235.10	0		
149.85	0	174.00	69	241.80	0		
151.85	0	175.00	6	270.95	0		

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK16

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: vblk9/10

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01214.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/16/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK16

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: vblk9/10

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01214.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/16/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

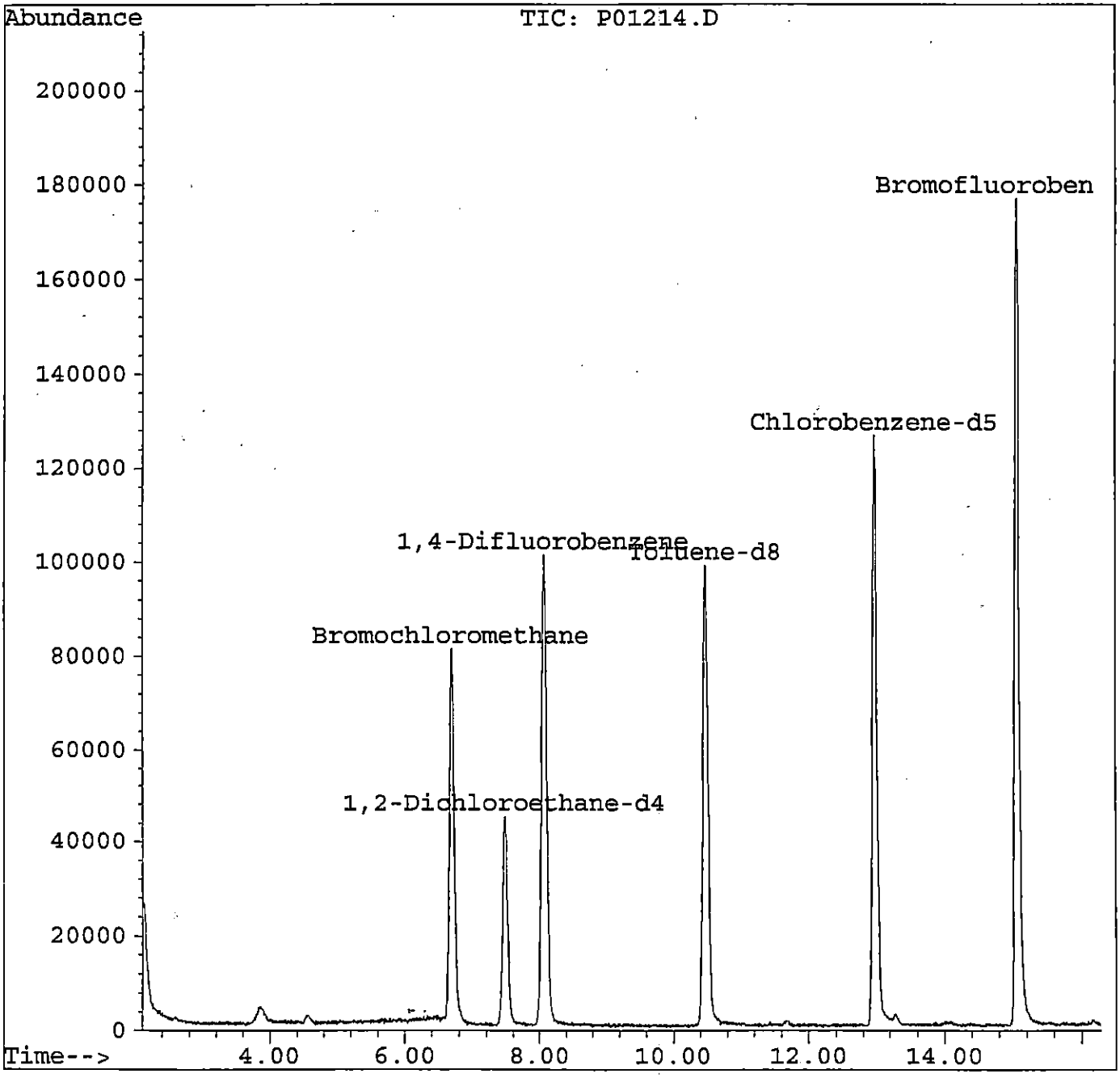
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01214.D
Acq On : 16 Sep 95 1:33 pm
Sample : vblk9/2016
Misc : blank 9/22/95
Quant Time: Sep 16 13:50 1995

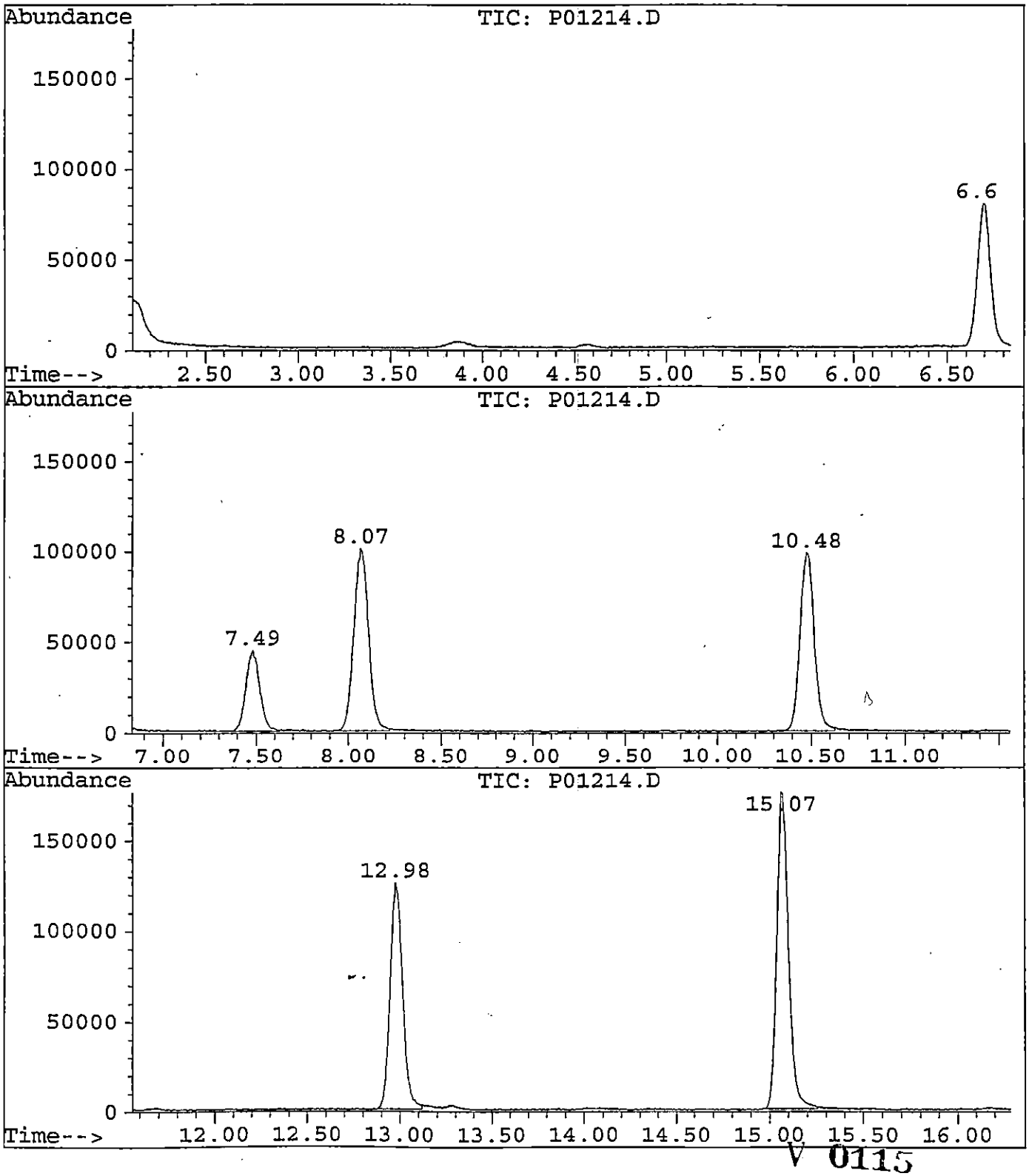
Vial: 3
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0114

File : C:\HPCHEM\1\DATA\P01214.D
Operator : MSD
Acquired : 16 Sep 95 13:33 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: vblk9/10
Misc Info : blank
Vial Number: 3



V 0115

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01214.D
Acq On : 16 Sep 95 13:33
Sample : vblk9/2016 WSD9126195
Misc : blank
Quant Time: Sep 16 13:50 1995

Vial: 3
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sat Sep 16 12:56:09 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01213.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.69	128	50957	50.00	UG/L		-0.01
21) 1,4-Difluorobenzene	8.07	114	198234	50.00	UG/L		0.00
33) Chlorobenzene-d5	12.98	117	160985	50.00	UG/L		-0.01
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.49	65	84140	51.82	UG/L		
34) Toluene-d8	10.48	98	172420	48.10	UG/L		
43) Bromofluorobenzene	15.07	95	154089	49.78	UG/L	#	
Target Compounds							Qvalue
9) Methylene Chloride	4.57	84	1634	1.12	UG/L	#	77

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

TIC: P01214.D

vblk9/14516

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	6.695	rVB	0.278	397792	6.594	6.872
2	7.486	rBV	0.272	228778	7.353	7.625
3	8.068	rBV	0.278	547900	7.941	8.220
4	10.478	rBV	0.259	516951	10.364	10.624
5	12.977	rBV	0.240	587477	12.876	13.116
6	15.065	rBV	0.278	773722	14.977	15.255

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P01214.D
Acq On : 16 Sep 95 13:33
Sample : vblk9/10
Misc : blank

Vial: 3
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

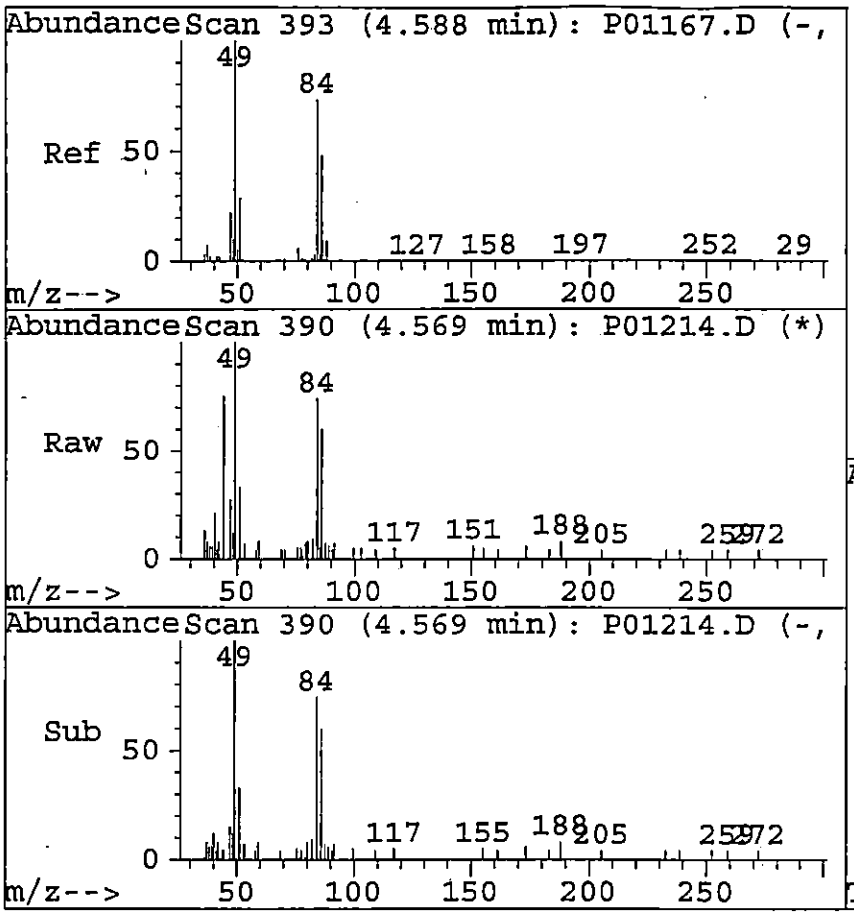
V 0118

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 16 Sep 95 13:33
Data File: C:\HPCHEM\1\DATA\P01214.D
Name: vblk9/10
Misc: blank
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

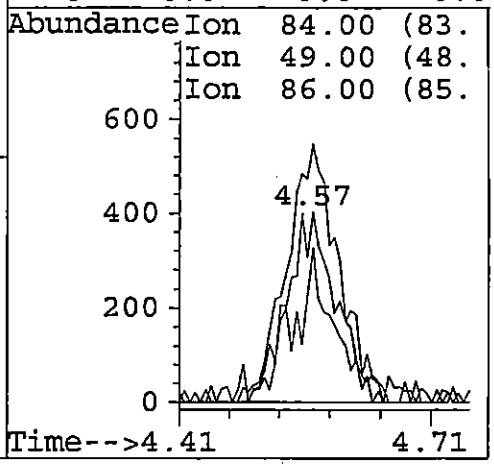
V 0119



#9
Methylene Chloride
Concen: 1.12 UG/L
RT: 4.57 min Scan# 390
Delta R.T. 0.01 min
Lab File: P01214.D
Acq: 16 Sep 95 1:33 pm

Tgt Ion:84 Resp: 1634

Ion	Ratio	Lower	Upper
84	100		
49	129.8	80.9	120.9#
86	80.9	49.4	89.4
0	0.0	0.0	0.0



Sample Name: vblk9/10
Misc. Info: blank

V 0120

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK17

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: VBLK17 BLA

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01227.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	2	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK17

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: VBLK17 BLA

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01227.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

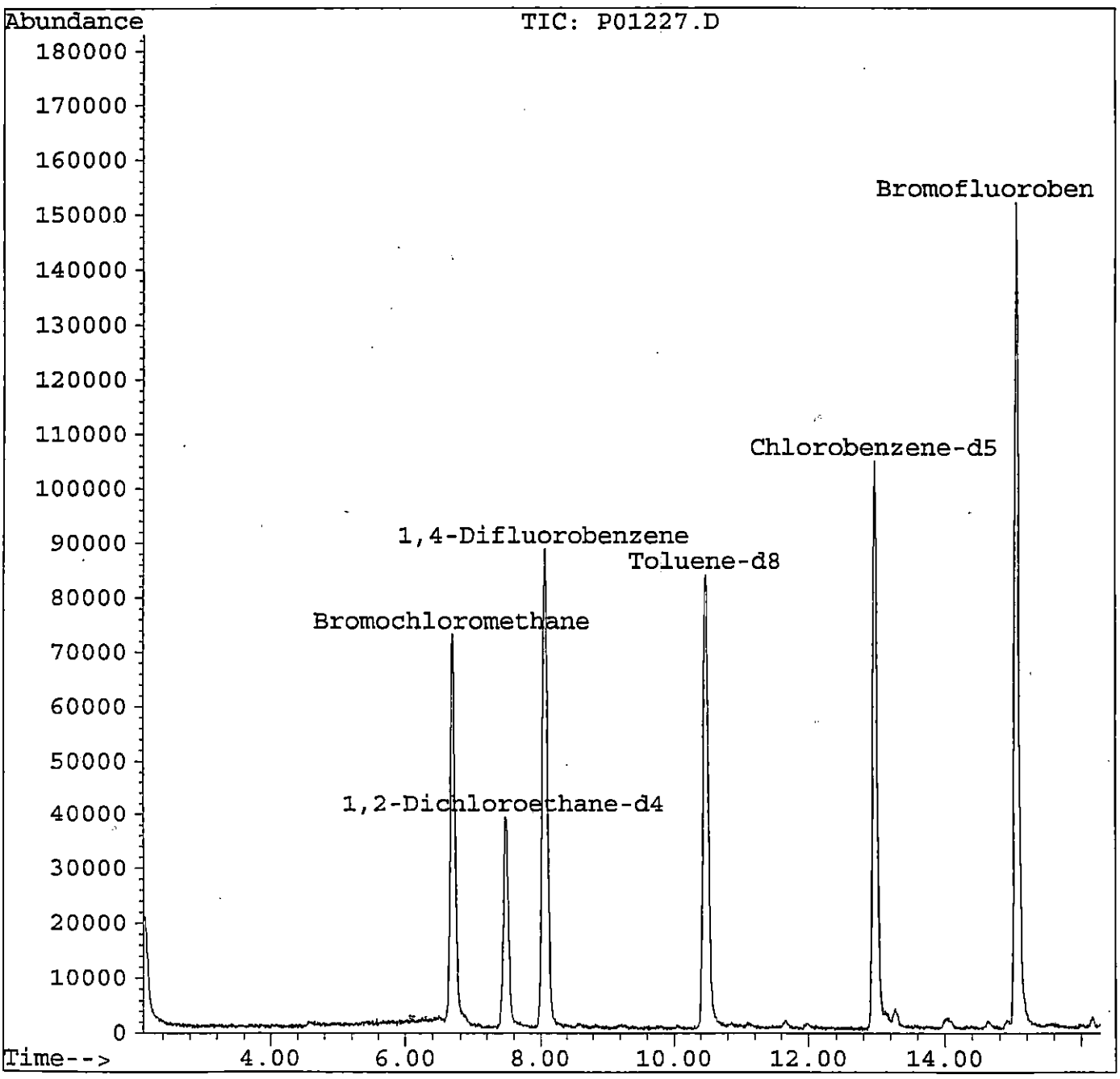
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01227.D
Acq On : 17 Sep 95 12:18 pm
Sample : VBLK17 BLANK
Misc :
Quant Time: Sep 17 12:35 1995

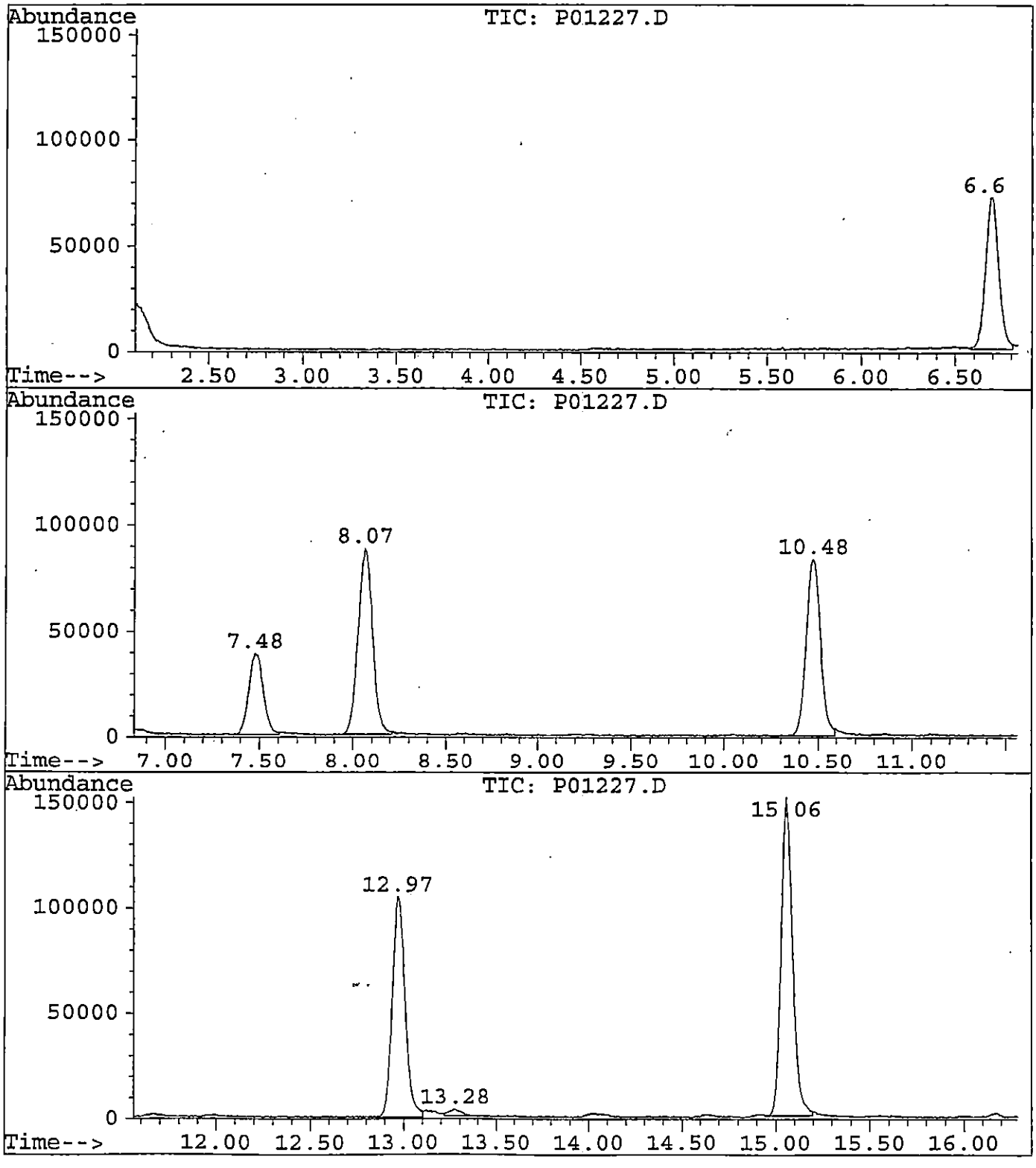
Vial: 5
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0123

File : C:\HPCHEM\1\DATA\P01227.D
Operator : MSD
Acquired : 17 Sep 95 12:18 using AcqMethod VEPAW3
Instrument : 5970-3
Sample Name: VBLK17 BLANK
Misc Info :
Vial Number: 5



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01227.D
Acq On : 17 Sep 95 12:18
Sample : VBLK17 BLANK
Misc :
Quant Time: Sep 28 22:00 1995

Vial: 5
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 12:15:30 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.71	128	46154	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	8.07	114	170528	50.00	UG/L	-0.01
33) Chlorobenzene-d5	12.97	117	130545	50.00	UG/L	-0.01
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.48	65	74898	49.86	UG/L	
34) Toluene-d8	10.47	98	147044	50.70	UG/L	
43) Bromofluorobenzene	15.06	95	129710	51.00	UG/L	#
Target Compounds						Qvalue
41) Xylene (total)	13.27	106	3407m	2.40	UG/L	62

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

V 0125

TIC: P01227.D

VBLK17 BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	6.693	rBV	0.228	353080	6.580	6.807
2	7.478	rBV	0.228	201235	7.377	7.605
3	8.066	rBV	0.259	471713	7.952	8.212
4	10.477	rBV	0.278	442830	10.312	10.591
5	12.970	rBV	0.247	493013	12.856	13.102
6	13.280	rVB	0.139	14347	13.216	13.355
7	15.057	rBV	0.234	645562	14.962	15.197

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P01227.D
Acq On : 17 Sep 95 12:18
Sample : VBLK17 BLANK
Misc :

Vial: 5
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

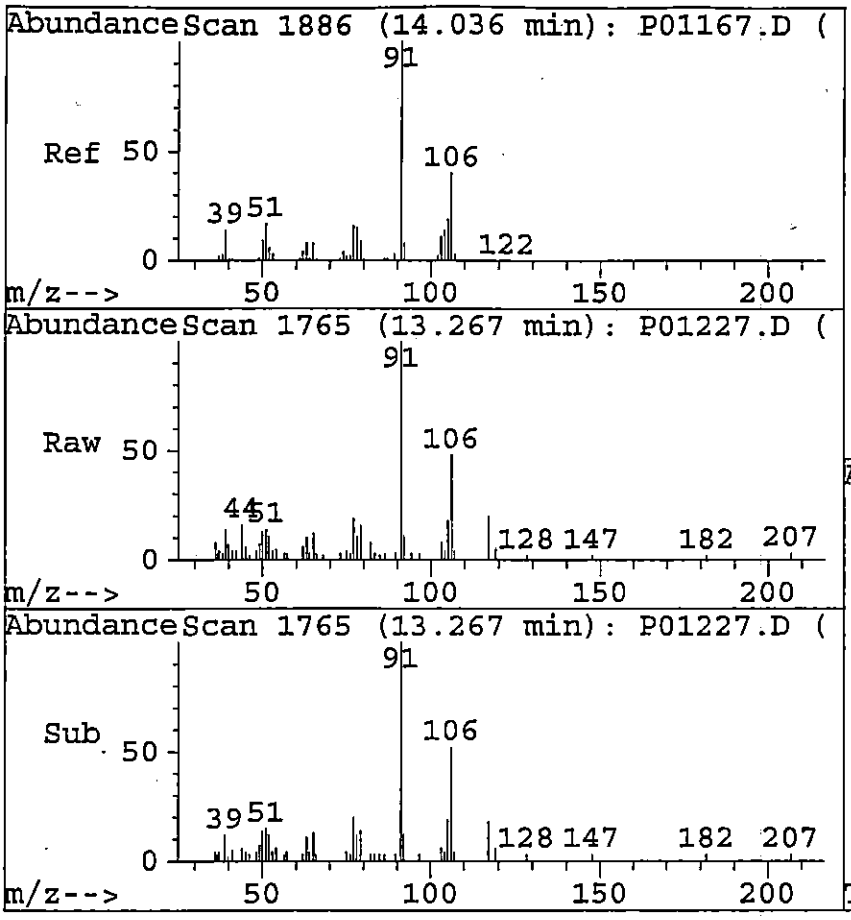
No Library Search Compounds Detected

V 0127

Tentatively Identified Compound (LSC) summary

Operator ID: MSD Date Acquired: 17 Sep 95 12:18
Data File: C:\HPCHEM\1\DATA\P01227.D
Name: VBLK17 BLANK
Misc:
Method: VEPAW3
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

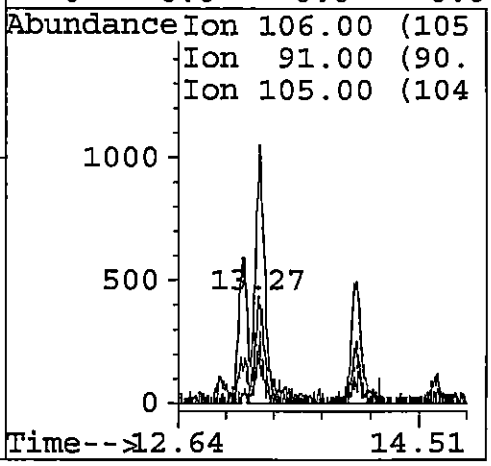
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc



#41
Xylene (total)
Concen: 2.40 UG/L m
RT: 13.27 min Scan# 1765
Delta R.T. -0.76 min
Lab File: P01227.D
Acq: 17 Sep 95 12:18 pm

Tgt Ion:106 Resp: 3407

Ion	Ratio	Lower	Upper
106	100		
91	206.7	208.7	248.7#
105	37.2	25.5	65.5
0	0.0	0.0	0.0



Sample Name: VBLK17 BLANK

Misc. Info:

V 0129

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MSB17

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: MSB17

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01228.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

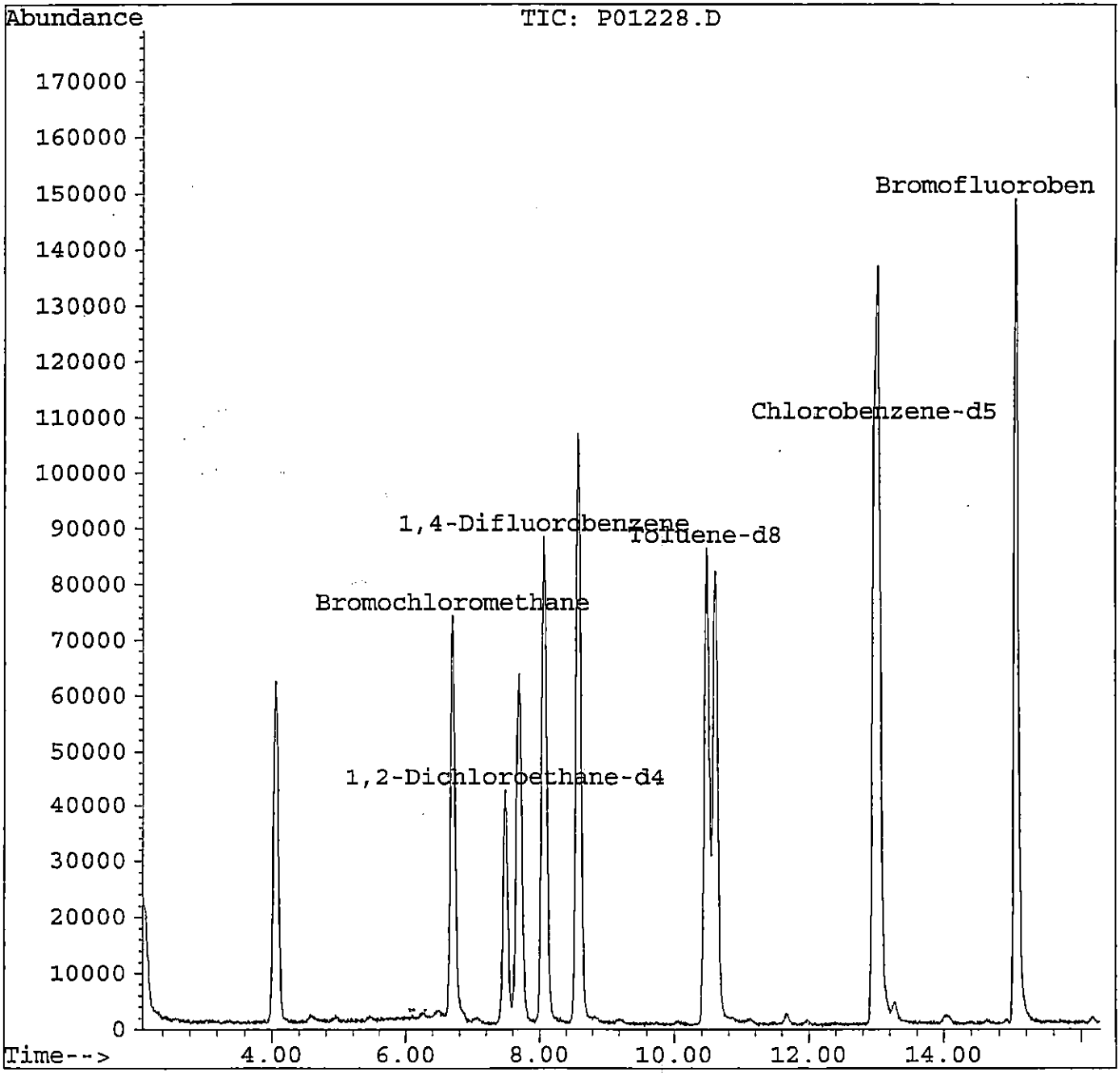
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	43	
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	46	
71-43-2	Benzene	44	
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	47	
108-90-7	Chlorobenzene	54	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	2	JB

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01228.D
Acq On : 17 Sep 95 12:45 pm
Sample : MSB17 SPIKED BLK
Misc :
Quant Time: Sep 17 13:02 1995

Vial: 6
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0131

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01228.D
Acq On : 17 Sep 95 12:45
Sample : MSB17 SPIKED BLK
Misc :
Quant Time: Sep 28 22:01 1995

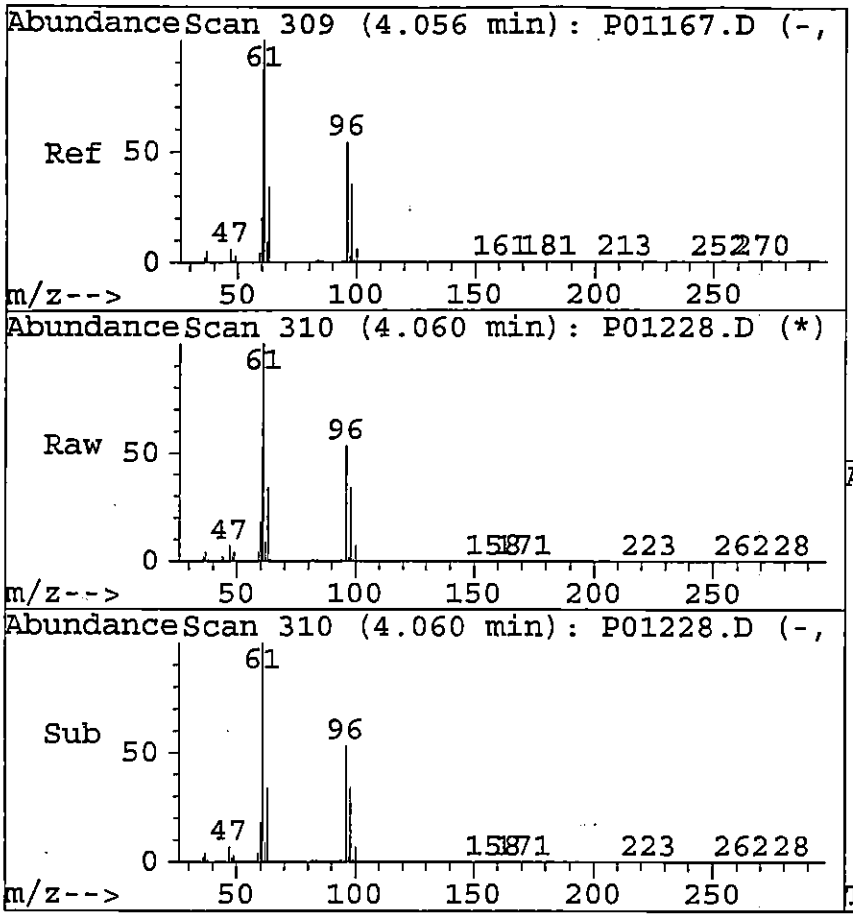
Vial: 6
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 12:15:30 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.70	128	48005	50.00	UG/L		0.00
21) 1,4-Difluorobenzene	8.06	114	164959	50.00	UG/L		-0.01
33) Chlorobenzene-d5	12.97	117	116224	50.00	UG/L		-0.01
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.49	65	75968	48.62	UG/L		
34) Toluene-d8	10.48	98	141425	54.77	UG/L		
43) Bromofluorobenzene	15.06	95	123461	54.52	UG/L	#	
Target Compounds							Qvalue
6) 1,1-Dichloroethene	4.06	96	55823	42.71	UG/L	#	80
24) Trichloroethene	8.58	130	83842	46.16	UG/L	#	82
25) Benzene	7.69	78	127811	43.93	UG/L		83
36) Toluene	10.61	91	137881	46.66	UG/L		94
39) Chlorobenzene	13.04	112	133702	53.55	UG/L	#	78
41) Xylene (total)	13.27	106	2844m	2.25	UG/L		97

ks 09/28/95

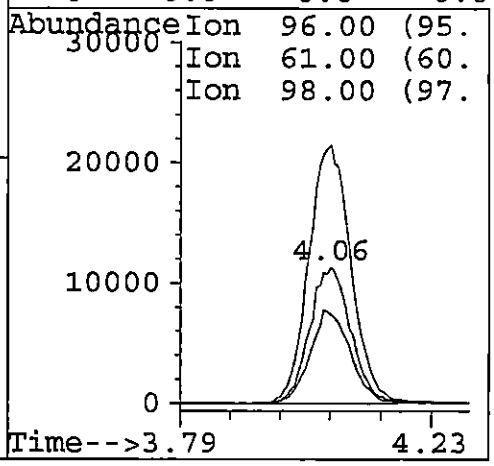
(#) = qualifier out of range (m) = manual integration

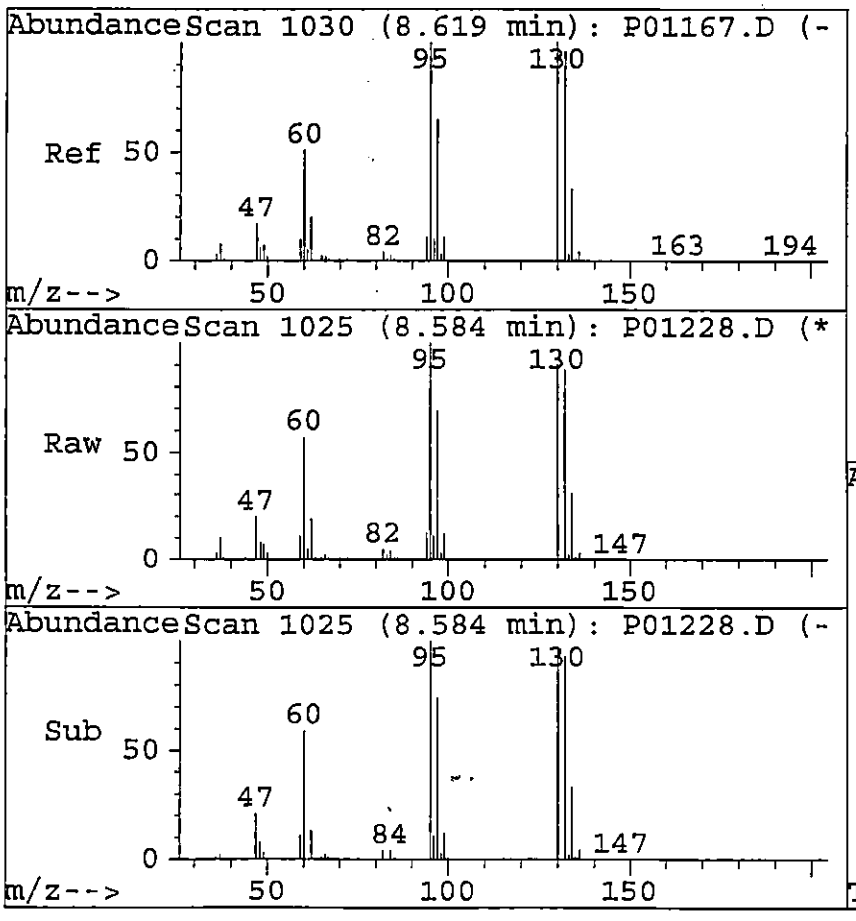


#6
1,1-Dichloroethene
Concen: 42.71 UG/L
RT: 4.06 min Scan# 310
Delta R.T. 0.04 min
Lab File: P01228.D
Acq: 17 Sep 95 12:45 pm

Tgt Ion:96 Resp: 55823

Ion	Ratio	Lower	Upper
96	100		
61	189.2	133.2	173.2#
98	64.7	47.0	87.0
0	0.0	0.0	0.0

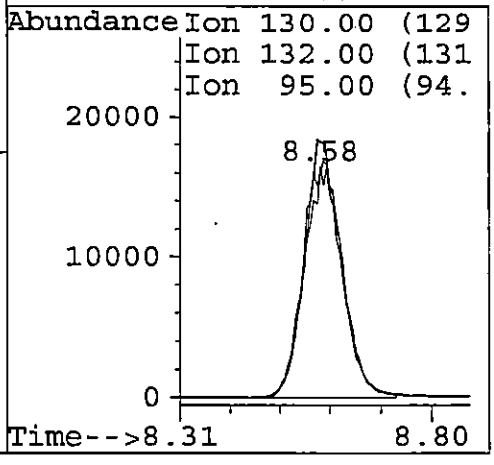




#24
Trichloroethene
Concen: 46.16 UG/L
RT: 8.58 min Scan# 1025
Delta R.T. -0.01 min
Lab File: P01228.D
Acq: 17 Sep 95 12:45 pm

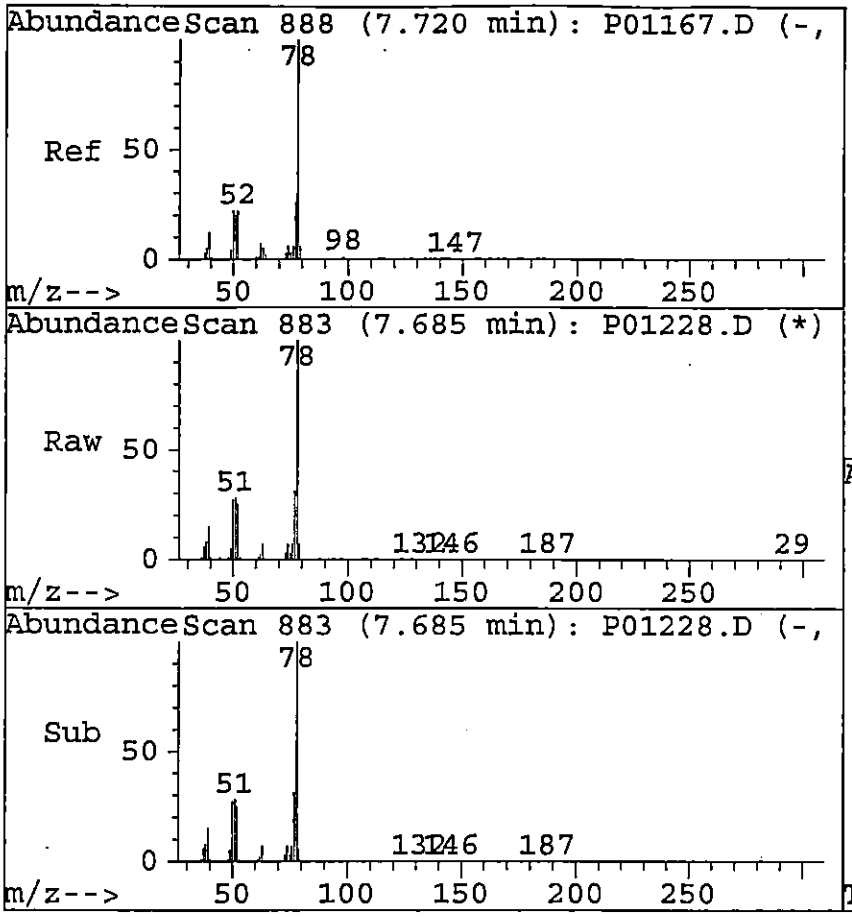
Tgt Ion:130 Resp: 83842

Ion	Ratio	Lower	Upper
130	100		
132	97.2	85.5	125.5
95	110.9	63.2	103.2#
0	0.0	0.0	0.0



Sample Name: MSB17 SPIKED BLK
Misc. Info:
P01228.D VEPAW3.M Thu Sep 28 22:02:59 1995 SJD

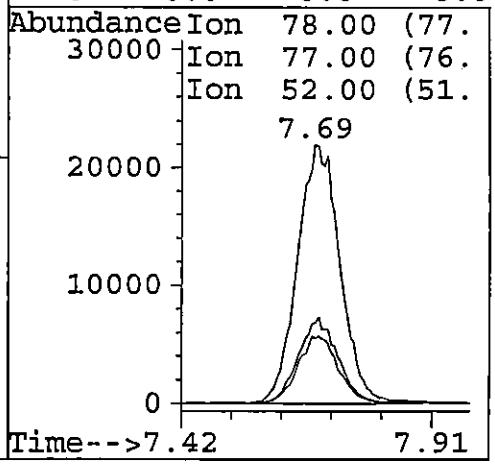
V 0133

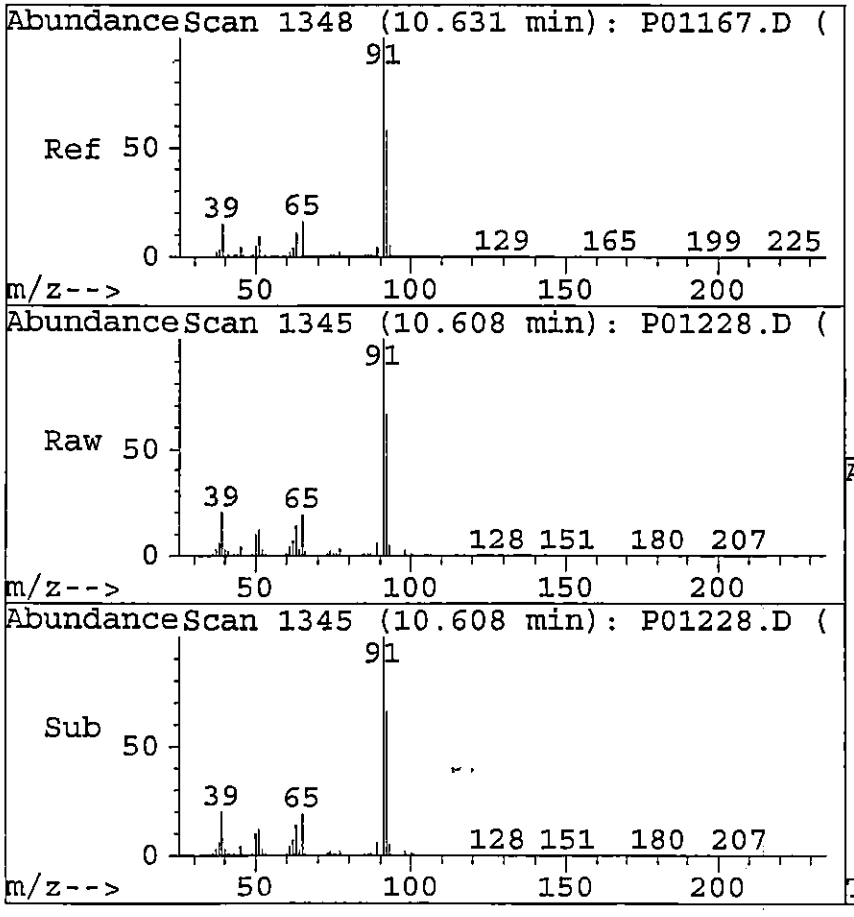


#25
Benzene
Concen: 43.93 UG/L
RT: 7.69 min Scan# 883
Delta R.T. -0.01 min
Lab File: P01228.D
Acq: 17 Sep 95 12:45 pm

Tgt Ion:78 Resp: 127811

Ion	Ratio	Lower	Upper
78	100		
77	31.0	3.8	43.8
52	24.7	0.0	35.7
0	0.0	0.0	0.0

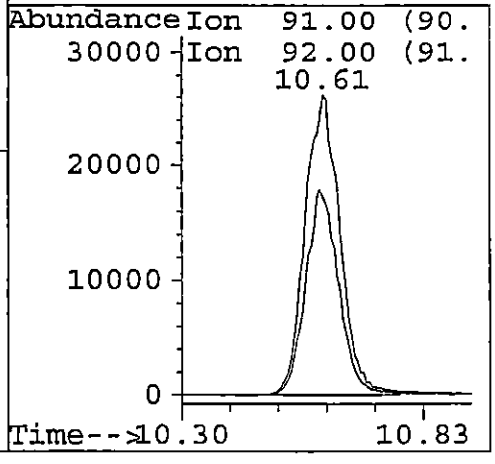




#36
Toluene
Concen: 46.66 UG/L
RT: 10.61 min Scan# 1345
Delta R.T. -0.01 min
Lab File: P01228.D
Acq: 17 Sep 95 12:45 pm

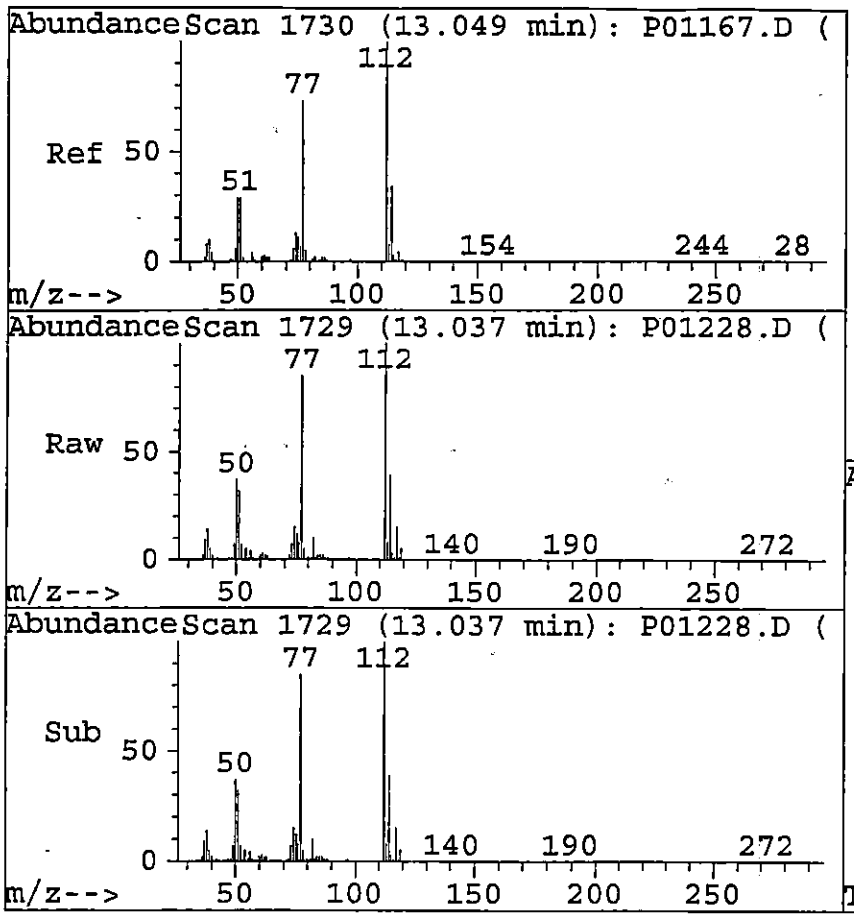
Tgt Ion:91 Resp: 137881

Ion	Ratio	Lower	Upper
91	100		
92	65.7	40.9	80.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Sample Name: MSB17 SPIKED BLK
Misc. Info:
P01228.D VEPAW3.M Thu Sep 28 22:03:05 1995 SJD

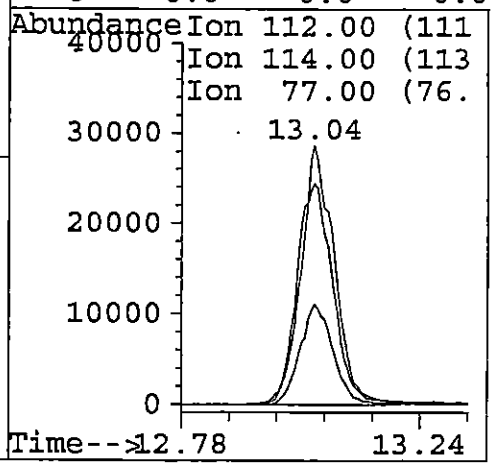
V 0134

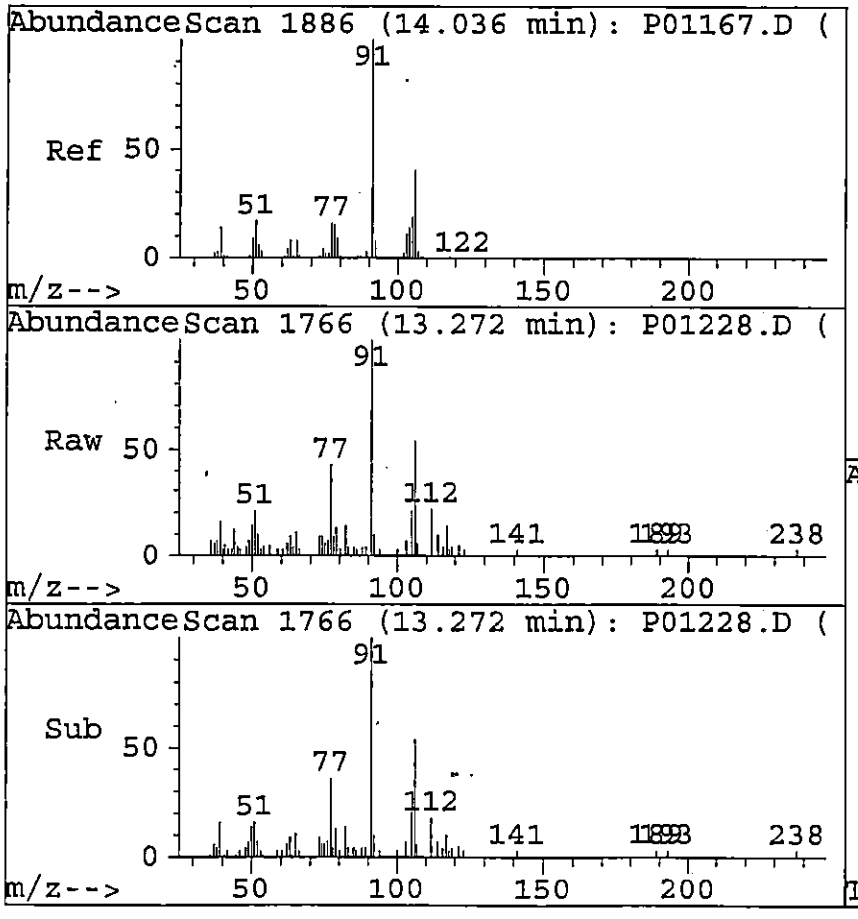


#39
Chlorobenzene
Concen: 53.55 UG/L
RT: 13.04 min Scan# 1729
Delta R.T. -0.00 min
Lab File: P01228.D
Acq: 17 Sep 95 12:45 pm

Tgt Ion:112 Resp: 133702

Ion	Ratio	Lower	Upper
112	100		
114	38.6	14.0	54.0
77	85.0	42.2	82.2#
0	0.0	0.0	0.0

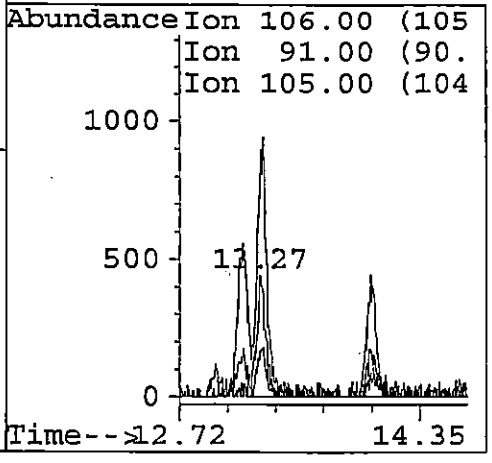




#41
Xylene (total)
Concen: 2.25 UG/L m
RT: 13.27 min Scan# 1766
Delta R.T. -0.75 min
Lab File: P01228.D
Acq: 17 Sep 95 12:45 pm

Tgt Ion:106 Resp: 2844

Ion	Ratio	Lower	Upper
106	100		
91	183.9	208.7	248.7#
105	37.9	25.5	65.5
0	0.0	0.0	0.0



Sample Name: MSB17 SPIKED BLK
Misc. Info:
P01228.D VEPAW3.M Thu Sep 28 22:03:11 1995 SJD

V 0135

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A84207MS

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525477MS

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01229.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

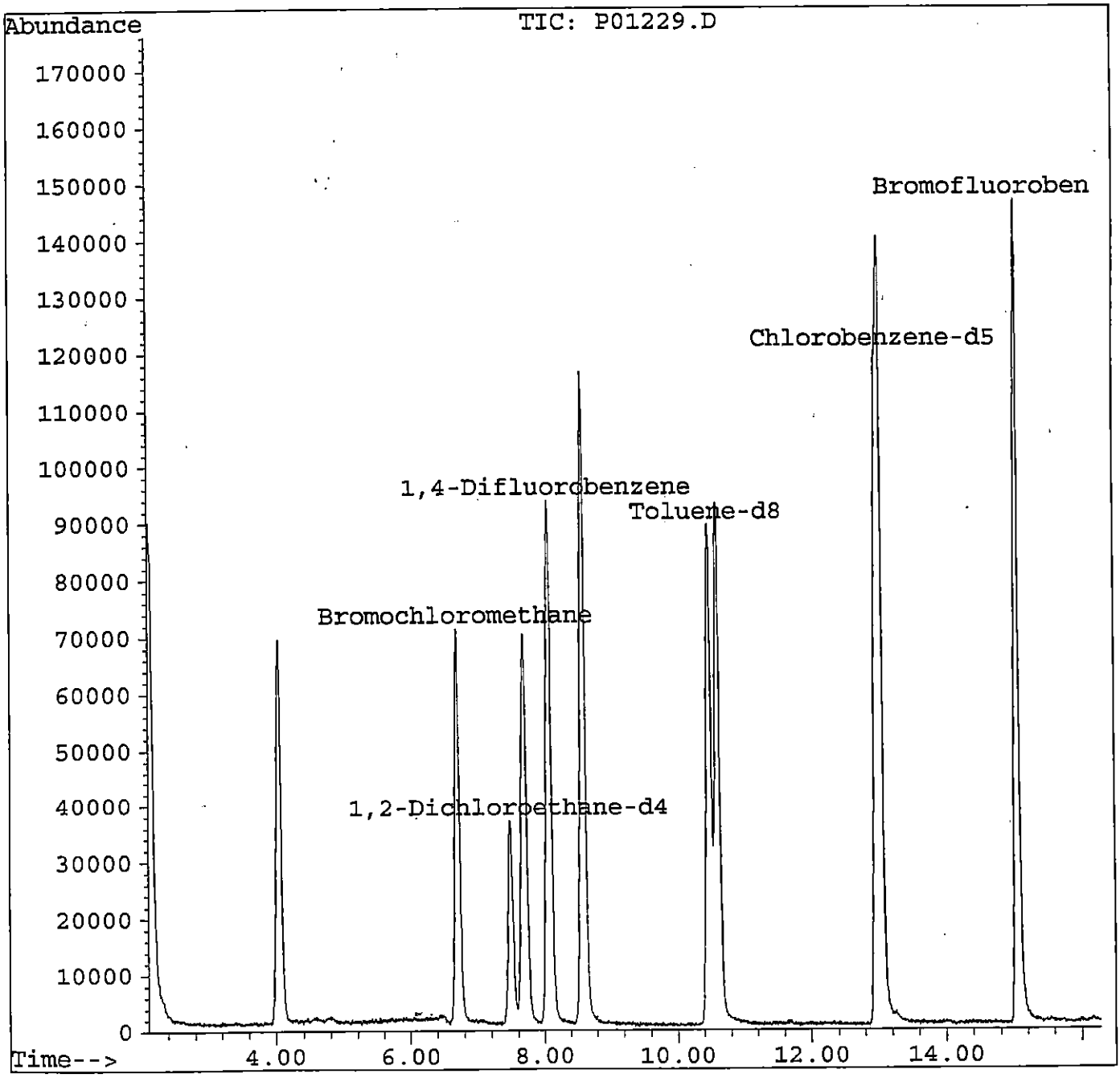
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	51	
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	50	
71-43-2	Benzene	49	
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	51	
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01229.D
Acq On : 17 Sep 95 1:14 pm
Sample : 9525477MS A84207MS
Misc : 9525477MS
Quant Time: Sep 26 22:11 1995

Vial: 7
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0137

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01229.D
Acq On : 17 Sep 95 13:14
Sample : 9525477MS A84207MS
Misc : 9525477MS
Quant Time: Sep 26 22:11 1995

Vial: 7
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 12:15:30 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.71	128	44395	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	8.07	114	179111	50.00	UG/L	0.00
33) Chlorobenzene-d5	12.98	117	131797	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	7.48	65	67428	46.67	UG/L	
34) Toluene-d8	10.47	98	153436	52.40	UG/L	
43) Bromofluorobenzene	15.06	95	128020	49.86	UG/L	#
Target Compounds						Qvalue
6) 1,1-Dichloroethene	4.05	96	61905	51.21	UG/L	# 82
24) Trichloroethene	8.58	130	98406	49.90	UG/L	88
25) Benzene	7.69	78	155565	49.24	UG/L	91
36) Toluene	10.61	91	169556	50.60	UG/L	100
39) Chlorobenzene	13.03	112	149721	52.88	UG/L	89

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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

A84207MSD

Lab Name: H2M LABS,INC Contract: C003180

Lab Code: 10478 Case No.: SH195 SAS No.: NDEC SDG No.: NDEC091

Matrix: (soil/water) WATER Lab Sample ID: 9525477MSD

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P01230.D

Level: (low/med) LOW Date Received: 09/13/95

% Moisture: not dec. _____ Date Analyzed: 09/17/95

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

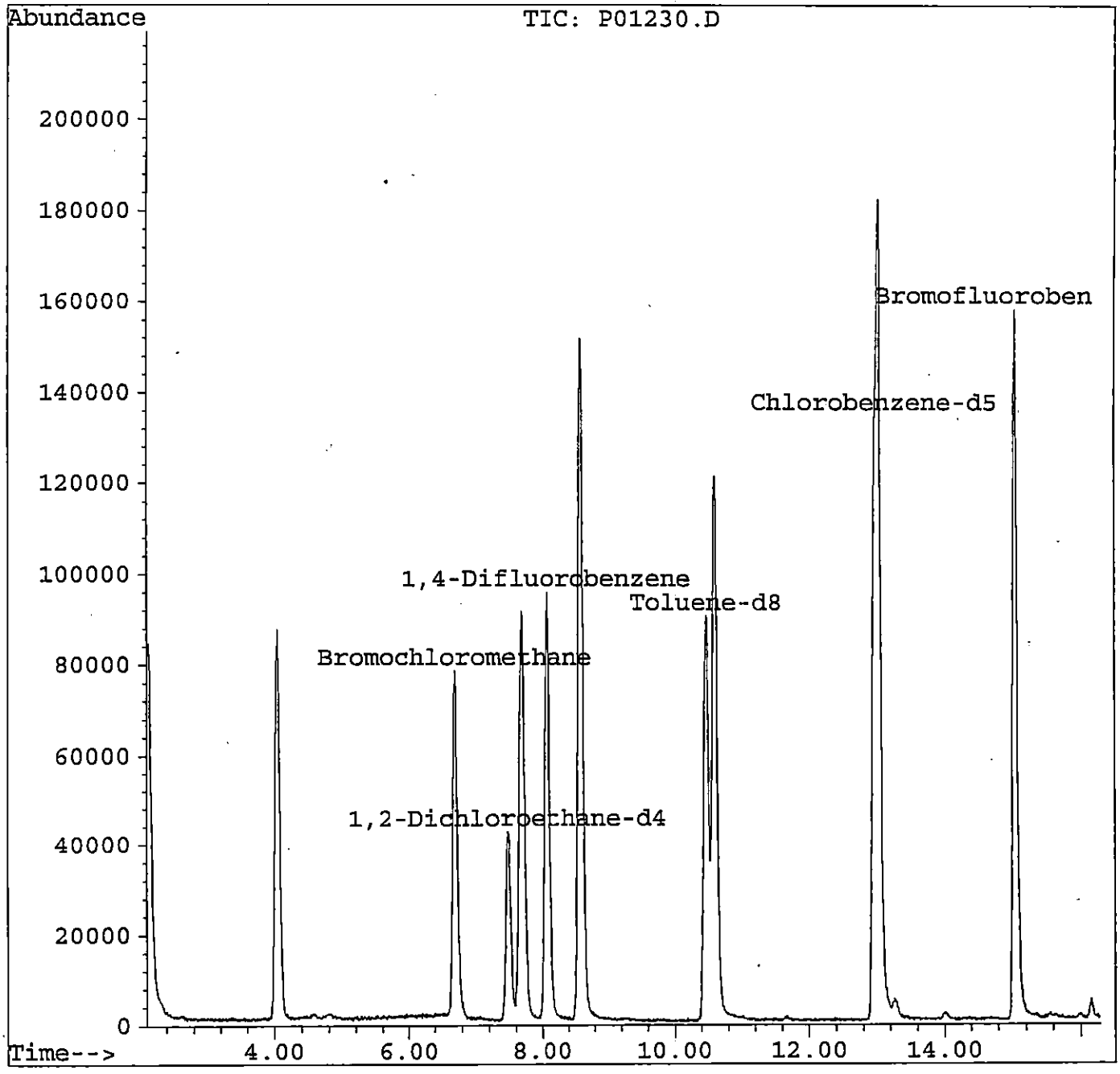
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	60	
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	64	
71-43-2	Benzene	63	
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	63	
108-90-7	Chlorobenzene	65	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01230.D
Acq On : 17 Sep 95 1:40 pm
Sample : 9525477MSD A84207MSD
Misc : 9525477MSD
Quant Time: Sep 26 22:13 1995

Vial: 8
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Single Level Calibration



V 0140

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P01230.D
Acq On : 17 Sep 95 13:40
Sample : 9525477MSD A84207MSD
Misc : 9525477MSD
Quant Time: Sep 26 22:13 1995

Vial: 8
Operator: MSD
Inst : 5970-3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VEPAW3.M
Title : VOA CLP WATER METHOD
Last Update : Sun Sep 17 13:38:17 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P01226.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	6.69	128	47901	50.00	UG/L		-0.01
21) 1,4-Difluorobenzene	8.07	114	184553	50.00	UG/L		0.00
33) Chlorobenzene-d5	12.98	117	140733	50.00	UG/L		0.00
System Monitoring Compounds							%Recovery
18) 1,2-Dichloroethane-d4	7.49	65	79275	50.85	UG/L		
34) Toluene-d8	10.48	98	156365	50.01	UG/L		
43) Bromofluorobenzene	15.05	95	137770	50.25	UG/L	#	
Target Compounds							Qvalue
6) 1,1-Dichloroethene	4.06	96	78155	59.92	UG/L	#	85
24) Trichloroethene	8.59	130	129784	63.87	UG/L		87
25) Benzene	7.69	78	204036	62.68	UG/L		94
36) Toluene	10.60	91	225648	63.06	UG/L		95
39) Chlorobenzene	13.03	112	197649	65.37	UG/L		91

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

H2M LABS, INC.

COMPUTATIONS FOR VOLATILE ORGANICS
PERFORMED BY RTE DATA SYSTEM OF HP

$$CONC = \frac{Ax}{Ais \times RRF} \quad \frac{Is}{W}$$

WHERE:

CONC = Concentration in sample (ug/L or ug/KG)

Ax = Area of characteristic ion of compound

Ais = Area of charhacteristic ion of internal standard

RRF = Relative response factor as area per (ng) of compound, divided by area per ng of respective internal standard

Is = Amount of internal standard injected (ng)

W = Volume of sample in (ml) or dry weight (g)

Generally the amount of each internal standard injected is 250 ng.

H2M LABS, INC.

V. DOCUMENTATION FOR VOLATILE ORGANICS

A. LOG BOOK PAGES
B. REPORTING ANALYST SIGNATURE PAGE

H2M LABS, INC.

VOLATILE

	LOT #	SOL'N ID
Surr.	104-030	I45
I.S.	104-268	11
M.S.		
QC Check	H0611	CLP150/154

SCAN: VOA INSTRUMENT: 5970-3 COLUMN: RTX502.2

DATE	PO RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE	
8/22	1010	TRIP BLANK	952853	5mL	V62/EW4	1403		10
	1011	ST-3	952848	5mL	RERUN LOW IS	1426		11
	1012	ST-4	952849	5mL		1450		12
	1013	ST-7	952850	5mL	RERUN DIL 1:5	1514		13
	1014	WW-C	952851	5mL	RERUN LOW IS DIL 1:2	1538		14
	1015	WW-C DUP	952851D	5mL	RERUN LOW IS DIL 1:2	1602		15
	1016	WW-C MS	952851MS	5mL		1626		16
	1017	ST-3 RE	952848	5mL		1706		1
	1018	ST-7 RE DL	952850	5mL	DIL 1.0mL TO 5mL	1730		2
	1019	WW-C RE DL	952851 RDL	5mL	DIL 2.5mL TO 5mL	1754		3
	1020	WW-C DUP RE DL	952851 RDL Date	5mL	"	1818		4
8/23	1021	~~50~~ 200 NG BFB	~~50~~ 200 NG BFB	1uL	VEPA43	944		MULT =1600
	1022	50 NG BFB	50 NG BFB	1uL		1119		
	1023	VSTD010		5mL	NG 50 PPB STDS.	1235		
	1024	VSTD020			NG ↓	059		
	1025	VSTD050			*USE	1323		
	1026	VSTD100			NG 50 PPB STDS	1347		
	1027	VSTD200		↓	NG ↓	1411		
	1028	VBLK07		5mL		1427		
	1029	VSTD10				1516		
	1030	20				1540		
	1031	↓ 100		↓		1604	↓	

H2M LABS, INC.

VOLATILE

	LOT #	SOL'N ID
Surr.	104-039	I+S
I.S.	104-268	"
M.S.		
QC Check	H0611	CLP 150/159

SCAN: VOA INSTRUMENT: 5970-3 COLUMN: TCTX 502.2

DATE	PO RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE	
	1032	VSTD0200		5mL		1627	RL	
8/24	1033	50ng BFB		1uL inj.	VEPAW3	946	RL	
	1034	VSTB050		5mL		1000		1
	1035	VSTD050 *	*	5mL	826053	1053		9
	1036	VBLK08		5mL				10
	1037	VSTD010		5mL	VEPAW3	1228	No Good	11
	1038	VSTD020 *	*	5mL	826053	1320		12
	1039	VSTD100 *	*	5mL		1338		14
	1040	VSTD~~040~~200 *	*	5mL		1413		
	1041	VSTD~~200~~010	*	5mL		1447		1c
	1042	VBLK09		5.0g		1532	TS	1
	1043	9523542		5.0g		1608	96.1	2
	1044	9523543		5.1g		1642	96.7	3
	1045	9523544		5.1g		1716	98.1	4
*	1046	9523545		5.1g		1751	96 SURR. OUT	5
*	1047	9523546		5.1g		1825	98.0 SURR. OUT	6
	1048	9523547		5.1g		1859	97.6	7
*	1049	9523548		5.1g		1933	98.0 SURR. OUT	8
*	1050	9523544MS		5.1g	NOT RAN POWER FAILURE			9
	1051	9523544MSD		5.1g				10
	1052	VMSB09		5.1g				11
	1054	9523544 MS		4.9g				
	1055	9523544 MSD		4.9g				

LSO 8/24/95

H2M LABS, INC.

VOLATILE

	#	ID
Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA INSTRUMENT: 5970 COLUMN: RTX502.3

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE	AIS #
9/15/95	P01212	BFB15	50ng	1ul	direct	1055	D. Dermoade	
	P01213	VSTD050	Standard	5ml	VEPAW3	1234		1
	P01214	VBLK9/16	Blank		OK	1333		
*	P01215	M.S.B 9/16	Spiked Blank		RERUN N.G	1359	DO NOT REPORT	3
*	P01216	A84201	9525471		RERUN TO OK CONFIRM	1426	DO NOT REPORT	4
*	P01217	A84202	9525472		OK	1453	DO NOT REPORT	5
*	P01218	A84203	9525473		OK ↓	1519	DO NOT REPORT	6
	P01219	A84204	9525474		OK	1546	DO NOT REPORT	7
	P01220	A84205	9525475		OK	1613	DO NOT REPORT	8
	P01221	A84206	9525476		OK	1640	DO NOT REPORT	9
	P01222	A84207	9525477		OK	1706		10
*	P01223	A84207 MS	9525477		MECL REJECT	1733	DO NOT REPORT	11
*	P01224	A84207 MSD	9525477	↓	MECL R. CONT.	1759	DO NOT REPORT	12
9/17/95	P01225	BFB17	50ng	1ul	direct	1111	D. Dermoade	
	P01226	VSTD050	Standard	5ml	VEPAW3	1132		1
	P01227	VBLK17	Blank		OK	1218		2
	P01228	M.S.B17	Spiked Blank		OK	1245		3
	P01229	A84207MS	9525477		OK	1314		9
	P01230	A84207MSD	9525477		Reps. OK	1340		5
	P01231	A84201	9525471		OK	1407		6
	P01232	A84202	9525472		OK	1434		7
	P01233	A84203	9525473	V	OK	1503	↓	8

H2M LABS, INC.

		ID
Surr.		
I.S.		
M.S.		
QC Check		

VOLATILE

SCAN: VOA **INSTRUMENT:** 5970 **COLUMN:** RTX502.3

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE	
9/12/95	P01234	A84204	9525474	5ml	OK	1530	H. Dennedy	9
	P01235	A84205	9525475	"	OK	1556		10
	P01236	A84206	9525476	"	OK	1623		11
	P01237	A84207	9525477	↓	SURROUT	1650	DO NOT REPORT	12
	P01238	A84207 MS	9525477 MSD	5ml	MEOH cont	1717		13
9/14/95	P01239	BFB 1849/19/95	50 ng	1ul	direct	1230	H Dennedy	
9/19/95	P01240	VSTD050		5ml	V624ES3	1249		14
	P01241	VBLK		5.0g	N.G.	1347		15
	P01242	VBLK 9/19/95		5.0g		1452		2
	P01243	MSBLK 9/19/95		5.0g		1554		8
	P01244		9525723	5.1g	1:5 surr out Reanalyze	1624		2
	P01245		9525724	5.1g	1 in	1654		3
	P01246		9525725	5.0g	1:5 surr out Reanalyze	1724		4
	P01247		9525726	5.1g	1:5 surr out Dilute 1:5	1754		5
	P01248		9525727	5.1g	1:5 surr out Reanalyze	1824	Rpt	6
	P01249		9525728	5.1g	1:5 surr out Dilute 1:25	1854	Rpt	7
9/20/95	P01250		50ng BFB	1ul inj		1044		
	P01251		50ng BFB	1ul inj		1048		
	P01252		VSTD050	5ml		1101		1
	P01253	VSTD050	"	5ml	V624ES3	1137		14
	P01254	VBLK 9/20/95		5.0g		1228		2
	P01255		9525723	5.1g	1:5 out Reanalyze	1408	Rpt	2

H2M LABS, INC.

SDG # NDEC0912

SCAN VOA

This data package was reported by the undersigned. This reporting includes data calculations, manual edits if necessary and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature: D Quinceda

Data: 9/26/95