ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

# TITLE/COVER PAGE

# QUALITY CONTROL DELIVERABLES

CLIENT: Code Environmental, 400 Middlesex Ave, Carteret, NJ 07008
CONTACT: Tom Tomassetti
JOB: Bayonne Barrel and Drum, #628188
DATES OF SAMPLE COLLECTION: 06/01/04
ECOTEST SAMPLE ID NOS.: 242358.01-.04

REPORT APPROVED BY: _____
THOMAS POWELL

DATE APPROVED: 6/21/04

JA

NJDEP LAB ID NO.: NY356
NYELAP ID NO.: 10320

excel\john\qcpkg04\cod2358



326136

GEORGE

DELIVERABLES PACKAGE FOR THE BAYONNE BARREL & DRUM SITE SAMPLE PCB

THANKS
JOE COSENTINO

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FOR ECOTEST SAMPLE Nos. 242358.04 TCLP

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INCLUDING: CONFORMANCE/NONCONFORMANCE SUMMARIES, LABORATORY CHRONICAL, ANALYTICAL SUMMARY , MDLs & PQLs, METHOD BLANK SUMMARY, RETENTION TIME WINDOWS, RESPONSE FACTOR REPORT, STANDARD SUMMARY, SURROGATE COMPOUND RESULTS SUMMARY, MS/MSD RECOVERY RESULTS SUMMARY, QUANTIFICATION REPORTS AND CHROMATOGRAMS
FOR ECOTEST SAMPLE Nos. 242358.04 TCLP

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FOR ECOTEST SAMPLE Nos. 242358.03-.04

# SUMMARY TABLE; CROSS-REFERENCE OF LABORATORY AND FIELD ID NOS. AND ANALYSES PERFORMED

SUMMARY TABLE; CROSS-REFERENCE OF LABORATORY AND FIELD ID NOS. AND ANALYSES PERFORMED

| EcoTest ID# | Field ID# | Matrix | Date Rec'd | ANALYSIS |
|---|---|---|---|---|
| 242358.01 | BBD-WC-V13-VOA | Sludge | 06/02/04 | VOCs by EPA 8260 |
| 242358.02 | BBD-WC-V11-VOA | Sludge | 06/02/04 | VOCs by EPA 8260 |
| 242358.03 | BBD-WC-B2-Pit/Furn. Pit | Sludge | 06/02/04 | Full Priority Pollutants |
| 242358.04 | BBD-WC-Bldg. 8 Septic | Sludge /TCLP | 06/02/04 | Full TCLP, RCRA Characteristics, PCBs by EPA 8082 |
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# CHAIN OF CUSTODY FORMS

**ECO TEST LABORATORIES, INC. • ENVIRONMENTAL TESTING**
377 Sheffield Avenue, North Babylon, New York 11703
(631) 422-5777 • FAX (631) 422-5770

# CHAIN OF CUSTODY RECORD

242358

Client: CODE ENVIRONMENTAL SERVICES, INC.
Address: 400 MIDDLESEX AVE.
CARTERET, NJ 07008
Phone: 732-969-2700 FAX: 732-969-2701
Person receiving report: TOM TOMASSETTI
Sampled by: FRED ANDLAUER
Source: BAYONNE BARREL + DRUM
Job No.: 628188

NEED RESULTS ON 6-9-04 by 3:30 pm

CODE PO# 30090

TYPE & NUMBER OF CONTAINERS

| MATRIX (Soil, Water, etc.) | COLLECTED DATE | COLLECTED TIME | SAMPLE IDENTIFICATION | TOTAL NUMBER OF CONTAINERS | PP Volatile Organics (8260) | Full priority pollutants + 5 | Cuor, semi-VOA, PCB's, Pest, metals | Diesel, CN | Full TCLP | RCRA Chars | PCB's | | | | | | | REMARKS-TESTS REQUIRED, SPECIAL TURNAROUND, SPECIAL Q.C. etc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sludge | 6-1 2004 | 10:30 | BBD-WC-V13-VOA | 1 | X | | | | | | | | | | | | | |
| Sludge | 6-1 | 10:45 | BBD-WC-V11-VOA | 1 | X | | | | | | | | | | | | | |
| Sludge | 6-1 | 11:40 | BBD-WC-B2-Pit/Furn. pit | 4 | | X | | | | | | | | | | | | |
| Sludge | 6-1 | 12:00N | BBD-WC-Bldg. 8 septic | 2 | | | | | X | X | X | | | | | | | |

| Relinquished by: (Signature) | DATE/TIME | SEAL INTACT? | Received by: (Signature) | Relinquished by: (Signature) | DATE/TIME | SEAL INTACT? | Received by: (Signature) |
|---|---|---|---|---|---|---|---|
| [signature] Representing: CODE ENV. SVCS | 6/1 5pm | YES NO NA | [signature] Representing: | [signature] Representing: | 6/2 11:30 | YES NO NA | Representing: |
| Relinquished by: (Signature) Representing: | DATE/TIME | SEAL INTACT? YES NO NA | Received by: (Signature) Representing: | Relinquished by: (Signature) Representing: | DATE/TIME | SEAL INTACT? YES NO NA | Received by: (Signature) Representing: |

# DATA REPORTS

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.01 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1030
MATRIX:Sludge SAMPLE: BBD-WC-V13-VOA
BBD-WC-V13-VOA

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Dichlordifluoromethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Chloromethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Vinyl Chloride | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Bromomethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Chloroethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Trichlorofluoromethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,1 Dichloroethene | ug/Kg | 4800 | | 06/03/04 | 1449.2 | EPA8260 |
| Methylene Chloride | ug/Kg | 7700 | | 06/03/04 | 1449.2 | EPA8260 |
| t-1,2-Dichloroethene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,1 Dichloroethane | ug/Kg | 3900 | | 06/03/04 | 1449.2 | EPA8260 |
| 2,2-Dichloropropane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| c-1,2-Dichloroethene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Bromochloromethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Chloroform | ug/Kg | 6400 | | 06/03/04 | 1449.2 | EPA8260 |
| 111 Trichloroethane | ug/Kg | 2300 | | 06/03/04 | 1449.2 | EPA8260 |
| Carbon Tetrachloride | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,1-Dichloropropene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Benzene | ug/Kg | 9300 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,2 Dichloroethane | ug/Kg | 2300 | | 06/03/04 | 1449.2 | EPA8260 |
| Trichloroethylene | ug/Kg | 41000 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,2 Dichloropropane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Dibromomethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Bromodichloromethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| c-1,3Dichloropropene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Toluene | ug/Kg | 2200000 | | 06/04/04 | 36231. | EPA8260 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

9

DIRECTOR

rn = 21588 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.01 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1030
MATRIX:Sludge SAMPLE: BBD-WC-V13-VOA
BBD-WC-V13-VOA

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| t-1,3Dichloropropene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 112 Trichloroethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Tetrachloroethene | ug/Kg | 36000 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,3-Dichloropropane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Chlorodibromomethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,2 Dibromoethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Chlorobenzene | ug/Kg | 430000 | | 06/04/04 | 7246.3 | EPA8260 |
| Ethyl Benzene | ug/Kg | 300000 | | 06/04/04 | 7246.3 | EPA8260 |
| 1112Tetrachloroethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| m + p Xylene | ug/Kg | 1000000 | | 06/04/04 | 14492. | EPA8260 |
| o Xylene | ug/Kg | 330000 | | 06/04/04 | 7246.3 | EPA8260 |
| Styrene | ug/Kg | 550000 | | 06/04/04 | 7246.3 | EPA8260 |
| Bromoform | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Isopropylbenzene | ug/Kg | 23000 | | 06/03/04 | 1449.2 | EPA8260 |
| Bromobenzene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 1122Tetrachloroethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 123-Trichloropropane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| n-Propylbenzene | ug/Kg | 46000 | | 06/03/04 | 1449.2 | EPA8260 |
| 2-Chlorotoluene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 135-Trimethylbenzene | ug/Kg | 78000 | | 06/03/04 | 1449.2 | EPA8260 |
| 4-Chlorotoluene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| tert-Butylbenzene | ug/Kg | 22000 | | 06/03/04 | 1449.2 | EPA8260 |
| 124-Trimethylbenzene | ug/Kg | 160000 | | 06/04/04 | 7246.3 | EPA8260 |
| sec-Butylbenzene | ug/Kg | 7100 | | 06/03/04 | 1449.2 | EPA8260 |
| p-Isopropyltoluene | ug/Kg | 42000 | | 06/03/04 | 1449.2 | EPA8260 |

cc:

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REMARKS:

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DIRECTOR

rn = 21589 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.01 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1030
MATRIX:Sludge SAMPLE: BBD-WC-V13-VOA
BBD-WC-V13-VOA

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| 1,3 Dichlorobenzene (v) | ug/Kg | 1700 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,4 Dichlorobenzene (v) | ug/Kg | 6400 | | 06/03/04 | 1449.2 | EPA8260 |
| n-Butylbenzene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 1,2 Dichlorobenzene (v) | ug/Kg | 140000 | | 06/03/04 | 1449.2 | EPA8260 |
| Dibromochloropropane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| 124-Trichlorobenzene (v) | ug/Kg | 220000 | | 06/04/04 | 7246.3 | EPA8260 |
| Hexachlorobutadiene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| Naphthalene(v) | ug/Kg | 140000 | | 06/04/04 | 7246.3 | EPA8260 |
| 123-Trichlorobenzene | ug/Kg | 140000 | | 06/03/04 | 1449.2 | EPA8260 |
| ter.ButylMethylEther | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| p-Ethyltoluene | ug/Kg | 170000 | | 06/04/04 | 7246.3 | EPA8260 |
| Freon 113 | ug/Kg | 14000 | | 06/03/04 | 1449.2 | EPA8260 |
| 1245 Tetramethylbenz | ug/Kg | 32000 | | 06/03/04 | 1449.2 | EPA8260 |
| Acetone | ug/Kg | 190000 | | 06/03/04 | 14492. | EPA8260 |
| Methyl Ethyl Ketone | ug/Kg | < 14000 | | 06/03/04 | 14492. | EPA8260 |
| Methylisobutylketone | ug/Kg | < 14000 | | 06/03/04 | 14492. | EPA8260 |
| Chlorodifluoromethane | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| p Diethylbenzene | ug/Kg | < 1400 | | 06/03/04 | 1449.2 | EPA8260 |
| MS Library Search (Vol) | | | | | | |
| % Solids | | 69 | | 06/03/04 | 0.1 | SM182540G |

cc:

LRL=Laboratory Reporting Limit

REMARKS: Library Search is attached.

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DIRECTOR

rn = 21590 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.02 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1045
MATRIX:Sludge SAMPLE: BBD-WC-V11-VOA
BBD-WC-V11-VOA

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Dichlordifluoromethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Chloromethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Vinyl Chloride | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Bromomethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Chloroethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Trichlorofluoromethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,1 Dichloroethene | ug/Kg | 3900 | | 06/03/04 | 1408.4 | EPA8260 |
| Methylene Chloride | ug/Kg | 7300 | | 06/03/04 | 1408.4 | EPA8260 |
| t-1,2-Dichloroethene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,1 Dichloroethane | ug/Kg | 3400 | | 06/03/04 | 1408.4 | EPA8260 |
| 2,2-Dichloropropane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| c-1,2-Dichloroethene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Bromochloromethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Chloroform | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 111 Trichloroethane | ug/Kg | 2300 | | 06/03/04 | 1408.4 | EPA8260 |
| Carbon Tetrachloride | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,1-Dichloropropene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Benzene | ug/Kg | 8300 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,2 Dichloroethane | ug/Kg | 3200 | | 06/03/04 | 1408.4 | EPA8260 |
| Trichloroethylene | ug/Kg | 45000 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,2 Dichloropropane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Dibromomethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Bromodichloromethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| c-1,3Dichloropropene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Toluene | ug/Kg | 2000000 | | 06/04/04 | 35211. | EPA8260 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

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DIRECTOR

rn = 21591 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.02 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1045
MATRIX:Sludge SAMPLE: BBD-WC-V11-VOA
BBD-WC-V11-VOA

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| t-1,3Dichloropropene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 112 Trichloroethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Tetrachloroethene | ug/Kg | 31000 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,3-Dichloropropane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Chlorodibromomethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,2 Dibromoethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Chlorobenzene | ug/Kg | 490000 | | 06/04/04 | 7042.2 | EPA8260 |
| Ethyl Benzene | ug/Kg | 300000 | | 06/04/04 | 7042.2 | EPA8260 |
| 1112Tetrachloroethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| m + p Xylene | ug/Kg | 960000 | | 06/04/04 | 14084. | EPA8260 |
| o Xylene | ug/Kg | 310000 | | 06/04/04 | 7042.2 | EPA8260 |
| Styrene | ug/Kg | 580000 | | 06/04/04 | 7042.2 | EPA8260 |
| Bromoform | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Isopropylbenzene | ug/Kg | 21000 | | 06/03/04 | 1408.4 | EPA8260 |
| Bromobenzene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 1122Tetrachloroethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 123-Trichloropropane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| n-Propylbenzene | ug/Kg | 38000 | | 06/03/04 | 1408.4 | EPA8260 |
| 2-Chlorotoluene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 135-Trimethylbenzene | ug/Kg | 63000 | | 06/03/04 | 1408.4 | EPA8260 |
| 4-Chlorotoluene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| tert-Butylbenzene | ug/Kg | 31000 | | 06/03/04 | 1408.4 | EPA8260 |
| 124-Trimethylbenzene | ug/Kg | 150000 | | 06/04/04 | 7042.2 | EPA8260 |
| sec-Butylbenzene | ug/Kg | 6200 | | 06/03/04 | 1408.4 | EPA8260 |
| p-Isopropyltoluene | ug/Kg | 34000 | | 06/03/04 | 1408.4 | EPA8260 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

13

DIRECTOR

rn = 21592 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.02 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1045
MATRIX:Sludge SAMPLE: BBD-WC-V11-VOA
BBD-WC-V11-VOA

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| 1,3 Dichlorobenzene (v) | ug/Kg | 2100 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,4 Dichlorobenzene (v) | ug/Kg | 6600 | | 06/03/04 | 1408.4 | EPA8260 |
| n-Butylbenzene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 1,2 Dichlorobenzene (v) | ug/Kg | 150000 | | 06/04/04 | 7042.2 | EPA8260 |
| Dibromochloropropane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| 124-Trichlorobenzene (v) | ug/Kg | 210000 | | 06/04/04 | 7042.2 | EPA8260 |
| Hexachlorobutadiene | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| Naphthalene(v) | ug/Kg | 130000 | | 06/04/04 | 7042.2 | EPA8260 |
| 123-Trichlorobenzene | ug/Kg | 130000 | | 06/03/04 | 1408.4 | EPA8260 |
| ter.ButylMethylEther | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| p-Ethyltoluene | ug/Kg | 150000 | | 06/04/04 | 7042.2 | EPA8260 |
| Freon 113 | ug/Kg | 14000 | | 06/03/04 | 1408.4 | EPA8260 |
| 1245 Tetramethylbenz | ug/Kg | 28000 | | 06/03/04 | 1408.4 | EPA8260 |
| Acetone | ug/Kg | 150000 | | 06/03/04 | 14084. | EPA8260 |
| Methyl Ethyl Ketone | ug/Kg | < 14000 | | 06/03/04 | 14084. | EPA8260 |
| Methylisobutylketone | ug/Kg | < 14000 | | 06/03/04 | 14084. | EPA8260 |
| Chlorodifluoromethane | ug/Kg | < 1400 | | 06/03/04 | 1408.4 | EPA8260 |
| p Diethylbenzene | ug/Kg | 9000 | | 06/03/04 | 1408.4 | EPA8260 |
| MS Library Search (Vol) | | | | | | |
| % Solids | | 71 | | 06/03/04 | 0.1 | SM182540G |

cc:

LRL=Laboratory Reporting Limit

REMARKS: Library Search is attached.

14

DIRECTOR

rn = 21593 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Dichlordifluoromethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Chloromethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Vinyl Chloride | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Bromomethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Chloroethane | ug/Kg | 3100 | | 06/03/04 | 1960.7 | EPA8260 |
| Trichlorofluoromethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,1 Dichloroethene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Methylene Chloride | ug/Kg | 18000 | | 06/03/04 | 1960.7 | EPA8260 |
| t-1,2-Dichloroethene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,1 Dichloroethane | ug/Kg | 14000 | | 06/03/04 | 1960.7 | EPA8260 |
| 2,2-Dichloropropane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| c-1,2-Dichloroethene | ug/Kg | 16000 | | 06/03/04 | 1960.7 | EPA8260 |
| Bromochloromethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Chloroform | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 111 Trichloroethane | ug/Kg | 180000 | | 06/03/04 | 1960.7 | EPA8260 |
| Carbon Tetrachloride | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,1-Dichloropropene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Benzene | ug/Kg | 7100 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,2 Dichloroethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Trichloroethylene | ug/Kg | 76000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,2 Dichloropropane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Dibromomethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Bromodichloromethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| c-1,3Dichloropropene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Toluene | ug/Kg | 1700000 | | 06/04/04 | 39215. | EPA8260 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

15

DIRECTOR

rn = 21594 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770
Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT
Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| t-1,3Dichloropropene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 112 Trichloroethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Tetrachloroethene | ug/Kg | 53000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,3-Dichloropropane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Chlorodibromomethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,2 Dibromoethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Chlorobenzene | ug/Kg | 3300 | | 06/03/04 | 1960.7 | EPA8260 |
| Ethyl Benzene | ug/Kg | 250000 | | 06/04/04 | 9803.9 | EPA8260 |
| 1112Tetrachloroethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| m + p Xylene | ug/Kg | 690000 | | 06/04/04 | 19607. | EPA8260 |
| o Xylene | ug/Kg | 240000 | | 06/04/04 | 9803.9 | EPA8260 |
| Styrene | ug/Kg | 200000 | | 06/04/04 | 9803.9 | EPA8260 |
| Bromoform | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Isopropylbenzene | ug/Kg | 29000 | | 06/03/04 | 1960.7 | EPA8260 |
| Bromobenzene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1122Tetrachloroethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 123-Trichloropropane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| n-Propylbenzene | ug/Kg | 59000 | | 06/03/04 | 1960.7 | EPA8260 |
| 2-Chlorotoluene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 135-Trimethylbenzene | ug/Kg | 76000 | | 06/03/04 | 1960.7 | EPA8260 |
| 4-Chlorotoluene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| tert-Butylbenzene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 124-Trimethylbenzene | ug/Kg | 180000 | | 06/03/04 | 1960.7 | EPA8260 |
| sec-Butylbenzene | ug/Kg | 4300 | | 06/03/04 | 1960.7 | EPA8260 |
| p-Isopropyltoluene | ug/Kg | 3900 | | 06/03/04 | 1960.7 | EPA8260 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

16

DIRECTOR

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| 1,3 Dichlorobenzene (v) | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,4 Dichlorobenzene (v) | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| n-Butylbenzene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1,2 Dichlorobenzene (v) | ug/Kg | 5500 | | 06/03/04 | 1960.7 | EPA8260 |
| Dibromochloropropane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| 124-Trichlorobenzene (v) | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Hexachlorobutadiene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| Naphthalene(v) | ug/Kg | 73000 | | 06/03/04 | 1960.7 | EPA8260 |
| 123-Trichlorobenzene | ug/Kg | 8200 | | 06/03/04 | 1960.7 | EPA8260 |
| ter.ButylMethylEther | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| p-Ethyltoluene | ug/Kg | 220000 | | 06/04/04 | 9803.9 | EPA8260 |
| Freon 113 | ug/Kg | 15000 | | 06/03/04 | 1960.7 | EPA8260 |
| 1245 Tetramethylbenz | ug/Kg | 15000 | | 06/03/04 | 1960.7 | EPA8260 |
| Acetone | ug/Kg | < 20000 | | 06/03/04 | 19607. | EPA8260 |
| Methyl Ethyl Ketone | ug/Kg | < 20000 | | 06/03/04 | 19607. | EPA8260 |
| Methylisobutylketone | ug/Kg | < 20000 | | 06/03/04 | 19607. | EPA8260 |
| Chlorodifluoromethane | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| p Diethylbenzene | ug/Kg | < 2000 | | 06/03/04 | 1960.7 | EPA8260 |
| MS Library Search (Vol) | | | | | | |
| % Solids | | 51 | | 06/03/04 | 0.1 | SM182540G |

cc:

LRL=Laboratory Reporting Limit

REMARKS: Library Search is attached.

17

DIRECTOR

rn = 21596 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| N-Nitrosodimethylamine | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| Bis(2-chloroethyl)ether | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 1,3 Dichlorobenzene(sv) | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 1,4 Dichlorobenzene(sv) | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 1,2 Dichlorobenzene(sv) | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| Bis(2-chloroisopropyl)ether | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| N-Nitrosodi-n-propylamine | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| Hexachloroethane | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| Nitrobenzene | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| Isophorone | ug/Kg | 12000 | | 06/04/04 | 588.23 | EPA8270 |
| Bis(2-chloroethoxy)methane | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 124-Trichlorobenzene (sv) | ug/Kg | 10000 | | 06/04/04 | 588.23 | EPA8270 |
| Naphthalene(sv) | ug/Kg | 100000 | | 06/04/04 | 5882.3 | EPA8270 |
| Hexachlorobutadiene | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| Hexachlorocyclopentadiene | ug/Kg | < 59000 | | 06/04/04 | 58823. | EPA8270 |
| 2-Chloronaphthalene | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |
| Dimethyl Phthalate | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |
| Acenaphthylene | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |
| 2,6-Dinitrotoluene | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |
| Acenaphthene | ug/Kg | 8200 | | 06/04/04 | 5882.3 | EPA8270 |
| 2,4-Dinitrotoluene | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |
| Diethyl Phthalate | ug/Kg | 13000 | | 06/04/04 | 5882.3 | EPA8270 |
| Fluorene | ug/Kg | 13000 | | 06/04/04 | 5882.3 | EPA8270 |
| 4-Chlorophenyl phenyl ether | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |
| N-Nitrosodiphenylamine | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

18

DIRECTOR

rn = 21597 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| 1,2-Diphenylhydrazine | ug/Kg | 33000 | | 06/04/04 | 588.23 | EPA8270 |
| 4-Bromophenyl phenyl ether | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| Hexachlorobenzene | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| Phenanthrene | ug/Kg | 37000 | | 06/04/04 | 588.23 | EPA8270 |
| Anthracene | ug/Kg | 4100 | | 06/04/04 | 588.23 | EPA8270 |
| Di-n-Butyl Phthalate | ug/Kg | 330000 | | 06/04/04 | 5882.3 | EPA8270 |
| Fluoranthene | ug/Kg | 10000 | | 06/04/04 | 588.23 | EPA8270 |
| Benzidine | ug/Kg | < 59000 | | 06/04/04 | 58823. | EPA8270 |
| Pyrene | ug/Kg | 22000 | | 06/04/04 | 5882.3 | EPA8270 |
| BenzylButylPhthalate | ug/Kg | 310000 | | 06/04/04 | 5882.3 | EPA8270 |
| Benzo(a)anthracene | ug/Kg | 8400 | | 06/04/04 | 5882.3 | EPA8270 |
| 3,3'-Dichlorobenzidine | ug/Kg | < 59000 | * | 06/04/04 | 58823. | EPA8270 |
| Chrysene | ug/Kg | 9200 | | 06/04/04 | 5882.3 | EPA8270 |
| Bis(2-ethylhexyl)phthalate | ug/Kg | 670000 | | 06/04/04 | 5882.3 | EPA8270 |
| Di-n-octyl Phthalate | ug/Kg | 8400 | * | 06/04/04 | 5882.3 | EPA8270 |
| Benzo(b)fluoranthene | ug/Kg | 6700 | *# | 06/04/04 | 5882.3 | EPA8270 |
| Benzo(k)fluoranthene | ug/Kg | 6700 | *# | 06/04/04 | 5882.3 | EPA8270 |
| Benzo(a)pyrene | ug/Kg | < 5900 | * | 06/04/04 | 5882.3 | EPA8270 |
| Indeno(1,2,3-cd)pyrene | ug/Kg | < 5900 | * | 06/04/04 | 5882.3 | EPA8270 |
| Dibenzo(a,h)anthracene | ug/Kg | < 5900 | * | 06/04/04 | 5882.3 | EPA8270 |
| Benzo(ghi)perylene | ug/Kg | < 5900 | * | 06/04/04 | 5882.3 | EPA8270 |

MS Library Search (BN)

cc:

LRL=Laboratory Reporting Limit

REMARKS: Library Search is attached.
*Estimated due to low internal standard recovery, *43%. Low recovery due to interference. QC limit is 50%.
#Total = 13400 ug/Kg, unable to separate isomers.

19

DIRECTOR

rn = 21598 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

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LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Phenol | ug/Kg | 41000 | | 06/04/04 | 588.23 | EPA8270 |
| 2-Chlorophenol | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 2-Nitrophenol | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 2,4-Dimethylphenol | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 2,4-Dichlorophenol | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 4-Chloro-3-methylphenol | ug/Kg | < 590 | | 06/04/04 | 588.23 | EPA8270 |
| 2,4,5-Trichlorophenol | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |
| 4-Nitrophenol | ug/Kg | < 59000 | | 06/04/04 | 58823. | EPA8270 |
| 2,4-Dinitrophenol | ug/Kg | < 59000 | | 06/04/04 | 58823. | EPA8270 |
| 2-Methyl-4,6-dinitrophenol | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |
| Pentachlorophenol (ms) | ug/Kg | < 5900 | | 06/04/04 | 5882.3 | EPA8270 |

MS Library Search (AE)

cc:

LRL=Laboratory Reporting Limit

REMARKS: Library Search is attached.

20

DIRECTOR

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Antimony as Sb | mg/Kg | 53 | | 06/07/04 | 19.607 | EPA6010 |
| Arsenic as As | mg/Kg | 22 | | 06/07/04 | 4.9019 | EPA6010 |
| Beryllium as Be | mg/Kg | < 0.98 | | 06/07/04 | 0.9803 | EPA6010 |
| Cadmium as Cd | mg/Kg | 9.8 | | 06/07/04 | 9.8039 | EPA6010 |
| Chromium as Cr | mg/Kg | 1100 | | 06/07/04 | 9.8039 | EPA6010 |
| Copper as Cu | mg/Kg | 1300 | | 06/07/04 | 19.607 | EPA6010 |
| Lead as Pb | mg/Kg | 6700 | | 06/07/04 | 9.8039 | EPA6010 |
| Mercury as Hg | mg/Kg | 4.3 | | 06/04/04 | 0.1960 | EPA7470A |
| Nickel as Ni | mg/Kg | 140 | | 06/07/04 | 19.607 | EPA6010 |
| Selenium as Se | mg/Kg | 7.6 | | 06/04/04 | 1.9607 | EPA7740 |
| Silver as Ag | mg/Kg | 37 | | 06/07/04 | 9.8039 | EPA6010 |
| Thallium as Tl | mg/Kg | < 9.8 | | 06/07/04 | 9.8039 | EPA6010 |
| Zinc as Zn | mg/Kg | 5900 | | 06/07/04 | 19.607 | EPA6010 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

21

DIRECTOR

rn = 21600 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Lindane | ug/Kg | < 98 | | 06/08/04 | 98.039 | EPA8081 |
| Heptachlor | ug/Kg | < 98 | | 06/08/04 | 98.039 | EPA8081 |
| Aldrin | ug/Kg | < 98 | | 06/08/04 | 98.039 | EPA8081 |
| Heptachlor Epoxide | ug/Kg | < 98 | | 06/08/04 | 98.039 | EPA8081 |
| p,p-DDE | ug/Kg | 2200 | | 06/08/04 | 98.039 | EPA8081 |
| Dieldrin | ug/Kg | < 20 | | 06/09/04 | 19.607 | EPA8081 |
| Endrin | ug/Kg | < 20 | | 06/09/04 | 19.607 | EPA8081 |
| p,p-DDD | ug/Kg | 410 | | 06/08/04 | 98.039 | EPA8081 |
| p,p-DDT | ug/Kg | < 200 | | 06/08/04 | 196.07 | EPA8081 |
| Chlordane | ug/Kg | 25000 | | 06/08/04 | 1568.6 | EPA8081 |
| Toxaphene | ug/Kg | < 2000 | | 06/08/04 | 1960.7 | EPA8081 |
| Endrin Aldehyde | ug/Kg | < 120 | | 06/09/04 | 117.64 | EPA8081 |
| a BHC | ug/Kg | < 98 | | 06/08/04 | 98.039 | EPA8081 |
| b BHC | ug/Kg | < 98 | | 06/08/04 | 98.039 | EPA8081 |
| d BHC | ug/Kg | < 98 | | 06/08/04 | 98.039 | EPA8081 |
| Endosulfan 1 | ug/Kg | < 200 | | 06/08/04 | 196.07 | EPA8081 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

22

DIRECTOR

rn = 21601 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.03 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1140
MATRIX:Sludge SAMPLE: BBD-WC-B2-PIT-FURN. PIT
BBD-WC-B2-PIT-FURN. PIT

Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Endosulfan 2 | ug/Kg | < 39 | | 06/09/04 | 39.215 | EPA8081 |
| Endosulfan Sulfate | ug/Kg | < 120 | | 06/09/04 | 117.64 | EPA8081 |
| Aroclor 1016 | ug/Kg | < 2000 | | 06/08/04 | 1960.7 | EPA8082 |
| Aroclor 1221 | ug/Kg | < 2000 | | 06/08/04 | 1960.7 | EPA8082 |
| Aroclor 1232 | ug/Kg | < 2000 | | 06/08/04 | 1960.7 | EPA8082 |
| Aroclor 1242 | ug/Kg | < 2000 | | 06/08/04 | 1960.7 | EPA8082 |
| Aroclor 1248 | ug/Kg | < 2000 | | 06/08/04 | 1960.7 | EPA8082 |
| Aroclor 1254 | ug/Kg | 20000 | | 06/08/04 | 1960.7 | EPA8082 |
| Aroclor 1260 | ug/Kg | < 2000 | | 06/08/04 | 1960.7 | EPA8082 |
| Phenols as Phenol | mg/Kg | 540 | | 06/07/04 | 4.9019 | EPA420.1 |
| Cyanide as CN | mg/Kg | < 3.9 | | 06/07/04 | 3.9215 | EPA335.3 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

23

DIRECTOR

rn = 21602 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.04 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1200
MATRIX:Extract SAMPLE: BBD-WC-BLDG. 8 SEPTIC
BBD-WC-BLDG. 8 SEPTIC
TCLP

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Carbon Tetrachloride | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| Chlorobenzene | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| Chloroform | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| 1,4 Dichlorobenzene (v) | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| 1,2 Dichloroethane | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| 1,1 Dichloroethene | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| Methyl Ethyl Ketone | ug/L | < 50 | | 06/09/04 | 50 | EPA8260 |
| Tetrachloroethene | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| Trichloroethylene | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| Vinyl Chloride | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| Benzene | ug/L | < 5 | | 06/09/04 | 5 | EPA8260 |
| TCLP Zero Headspace Extract | | | | 06/02/04 | | EPA1311 |

cc:

LRL=Laboratory Reporting Limit

REMARKS: Sample contains 20% water matrix and 80% soil matrix.

24

DIRECTOR

rn = 21603 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.04 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1200
MATRIX:Extract SAMPLE: BBD-WC-BLDG. 8 SEPTIC
BBD-WC-BLDG. 8 SEPTIC
TCLP

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Lindane | ug/L | < 0.5 | | 06/03/04 | 0.5 | EPA8081 |
| Endrin | ug/L | < 0.5 | | 06/03/04 | 0.5 | EPA8081 |
| Methoxychlor | ug/L | < 1 | | 06/03/04 | 1 | EPA8081 |
| Toxaphene | ug/L | < 10 | | 06/03/04 | 10 | EPA8081 |
| Chlordane | ug/L | < 2 | | 06/03/04 | 2 | EPA8081 |
| Heptachlor | ug/L | < 0.5 | | 06/03/04 | 0.5 | EPA8081 |
| Heptachlor Epoxide | ug/L | < 0.5 | | 06/03/04 | 0.5 | EPA8081 |
| 2,4-D | ug/L | < 1 | | 06/08/04 | 1 | EPA8151 |
| 2,4,5-TP | ug/L | < 0.5 | | 06/08/04 | 0.5 | EPA8151 |
| 2-Methylphenol (o-cresol) | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| 3-Methylphenol (m-cresol) | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| 4-Methylphenol (p-cresol) | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| Pentachlorophenol (ms) | ug/L | < 100 | | 06/03/04 | 100 | EPA8270 |
| 2,4,5-Trichlorophenol | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| 2,4,6-Trichlorophenol | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| 2,4-Dinitrotoluene | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| Hexachlorobenzene | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| Hexachlorobutadiene | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| Hexachloroethane | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| Nitrobenzene | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| Pyridine | ug/L | < 10 | | 06/03/04 | 10 | EPA8270 |
| TCLP Extraction | | | | 06/02/04 | | EPA1311 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

25

DIRECTOR

rn = 21604 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.04 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1200
MATRIX:Extract SAMPLE: BBD-WC-BLDG. 8 SEPTIC
BBD-WC-BLDG. 8 SEPTIC
TCLP

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Arsenic as As | mg/L | < 0.1 | | 06/07/04 | 0.1 | EPA6010 |
| Barium as Ba | mg/L | 1.7 | | 06/07/04 | 0.05 | EPA6010 |
| Cadmium as Cd | mg/L | < 0.05 | | 06/07/04 | 0.05 | EPA6010 |
| Chromium as Cr | mg/L | < 0.05 | | 06/07/04 | 0.05 | EPA6010 |
| Lead as Pb | mg/L | < 0.05 | | 06/07/04 | 0.05 | EPA6010 |
| Mercury as Hg | mg/L | < 0.001 | | 06/04/04 | 0.001 | EPA7470A |
| Selenium as Se | mg/L | < 1 | * | 06/07/04 | 1 | EPA6010 |
| Silver as Ag | mg/L | < 0.05 | | 06/07/04 | 0.05 | EPA6010 |
| TCLP Extraction | | | | 06/02/04 | | EPA1311 |

cc:

LRL=Laboratory Reporting Limit

REMARKS: *Elevated detection limit due to matrix interferences.

26

DIRECTOR

rn = 21605 NYSDOH ID # 10320

**ECOTEST LABORATORIES, INC.** *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242358.04 06/18/04

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Tom Tomassetti PO#:30090

SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
SOURCE OF SAMPLE: Bayonne Barrel and Drum, #628188
COLLECTED BY: Client DATE COL'D:06/01/04 RECEIVED:06/02/04
TIME COL'D:1200
MATRIX:Sludge SAMPLE: BBD-WC-BLDG. 8 SEPTIC
BBD-WC-BLDG. 8 SEPTIC
Results reported on a dry weight basis

| ANALYTICAL PARAMETERS | UNITS | RESULT | FLAG | DATE OF ANALYSIS | LRL | ANALYTICAL METHOD |
|---|---|---|---|---|---|---|
| Aroclor 1016 | ug/Kg | < 7100 | | 06/04/04 | 7142.8 | EPA8082 |
| Aroclor 1221 | ug/Kg | < 7100 | | 06/04/04 | 7142.8 | EPA8082 |
| Aroclor 1232 | ug/Kg | < 7100 | | 06/04/04 | 7142.8 | EPA8082 |
| Aroclor 1242 | ug/Kg | < 7100 | | 06/04/04 | 7142.8 | EPA8082 |
| Aroclor 1248 | ug/Kg | < 7100 | | 06/04/04 | 7142.8 | EPA8082 |
| Aroclor 1254 | ug/Kg | 43000 | | 06/04/04 | 7142.8 | EPA8082 |
| Aroclor 1260 | ug/Kg | < 7100 | | 06/04/04 | 7142.8 | EPA8082 |
| % Solids | | 28 | | 06/03/04 | 0.1 | SM182540G |
| Flash Point deg C | | > 100 | | 06/04/04 | 25 | EPA1010 |
| Reactive cyanide | mg/Kg | 36 | | 06/07/04 | 7.1428 | EPA335.4 |
| pH (lab) units | | 7.3 | | 06/03/04 | 0.1 | EPA9045C |
| Sulfide as S | mg/Kg | 5900 | | 06/07/04 | 1428.5 | EPA376.2 |

cc:

LRL=Laboratory Reporting Limit

REMARKS:

27

DIRECTOR

rn = 21606 NYSDOH ID # 10320

# LIBRARY SEARCH REPORTS FOR TENTATIVELY IDENTIFIED COMPOUNDS

SVOCs BY EPA METHOD 8270 -
LIBRARY SEARCH REPORTS FOR TENTATIVELY IDENTIFIED COMPOUNDS
FOR ECOTEST SAMPLE Nos. 242358.03

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
242358.03

Lab Name: ECOTEST LABS Contract: _____

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

Matrix: (soil/water) SOIL Lab Sample ID: 358.03

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 06040420.D

Level: (low/med) LOW Date Received: 6/2/04

% Moisture: _____ decanted: (Y/N) N Date Extracted: 6/4/04

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/4/04

Injection Volume: 1.0 (uL) Dilution Factor: 300.0

GPC Cleanup: (Y/N) _____ pH: _____

Number TICs found: 18 Concentration Units: (ug/L or ug/Kg) ug/Kg

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. 108-88-3 | Toluene | 5.27 | 12000 | J |
| 2. 694-87-1 | Bicyclo[4.2.0]octa-1,3,5-tri | 5.52 | 3400 | J |
| 3. 95-63-6 | Benzene, 1,2,4-trimethyl- | 6.33 | 7600 | J |
| 4. 526-73-8 | Benzene, 1,2,3-trimethyl- | 6.68 | 12000 | J |
| 5. 585-74-0 | Ethanone, 1-(3-methylphenyl) | 7.22 | 2100 | J |
| 6. 17302-32-8 | Nonane, 3,7-dimethyl- | 7.23 | 9500 | J |
| 7. 488-23-3 | Benzene, 1,2,3,4-tetramethyl | 7.30 | 3900 | J |
| 8. 25155-15-1 | Benzene, methyl (1-methyleth | 7.58 | 6600 | J |
| 9. 527-53-7 | Benzene, 1,2,3,5-tetramethyl | 8.22 | 14000 | J |
| 10. 629-50-5 | Tridecane | 9.35 | 18000 | J |
| 11. 629-59-4 | Tetradecane | 10.13 | 10000 | J |
| 12. 17312-62-8 | Decane, 5-propyl- | 10.56 | 3100 | J |
| 13. 10544-96-4 | Octadecane, 6-methyl- | 11.80 | 2500 | J |
| 14. 629-78-7 | Heptadecane | 12.15 | 83000 | J |
| 15. 13287-24-6 | Nonadecane, 9-methyl- | 12.77 | 27000 | J |
| 16. 7225-66-3 | Tridecane, 7-hexyl- | 12.80 | 12000 | J |
| 17. 55045-08-4 | Dodecane, 2-methyl-6-propyl- | 13.37 | 12000 | J |
| 18. 1560-95-8 | Tetradecane, 2-methyl- | 13.81 | 25000 | J |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

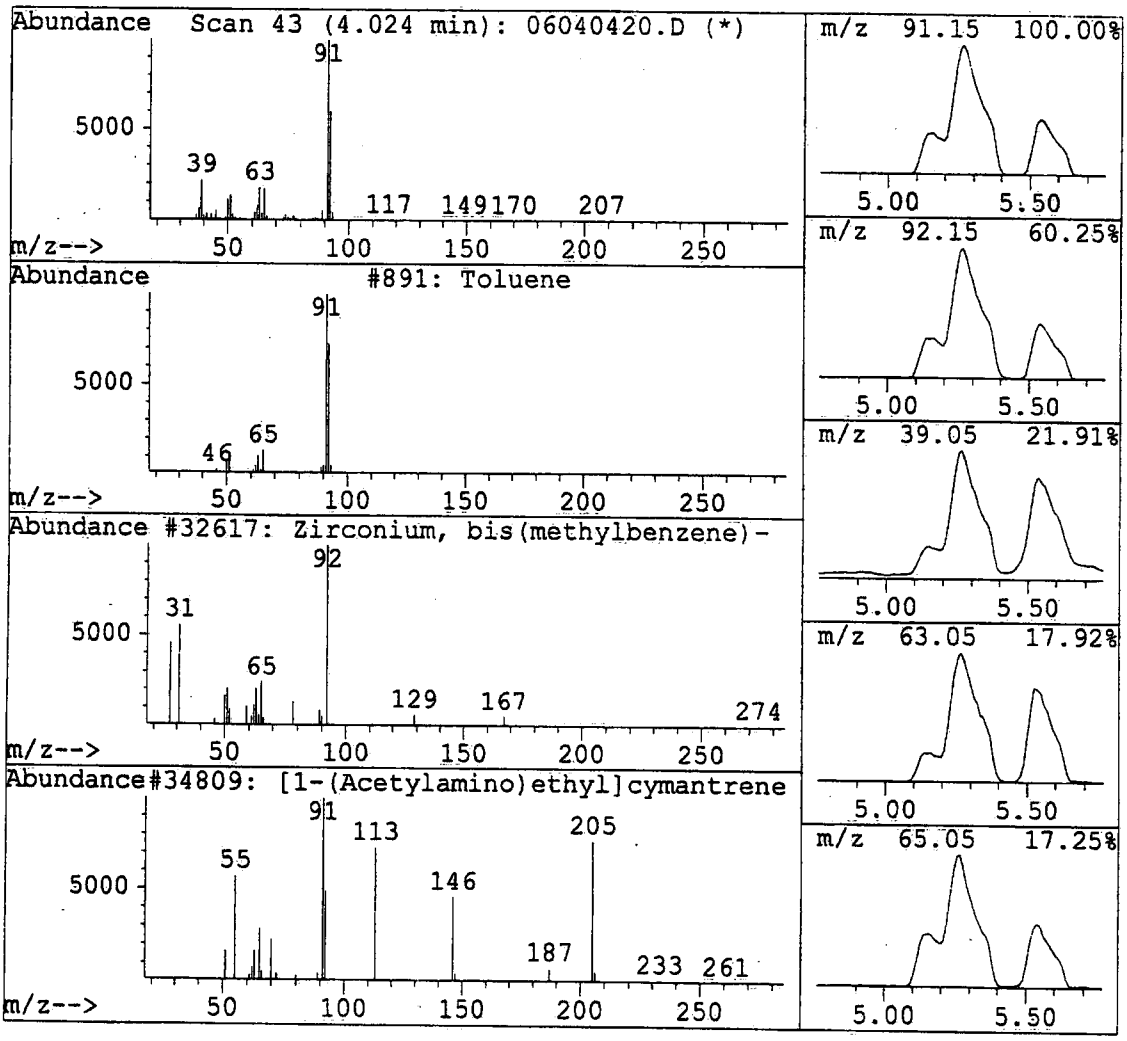
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D Vial: 19
Acq On : 4 Jun 104 11:48 pm Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s. Inst : SVGCMS2
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.27 | 38.98 PPB | 30996455 | 1,4-DICHLOROBENZENE-d4 INT. STD. | 6.89 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Toluene | 891 | 000108-88-3 | 91 |
| 2 | Zirconium, bis(methylbenzene)- | 32617 | 000000-00-0 | 72 |
| 3 | [1-(Acetylamino)ethyl]cymantrene | 34809 | 012193-73-6 | 64 |
| 4 | Benzaldehyde, 2-methyl- | 3321 | 000529-20-4 | 53 |
| 5 | Benzeneacetic acid | 5628 | 000103-82-2 | 50 |




31

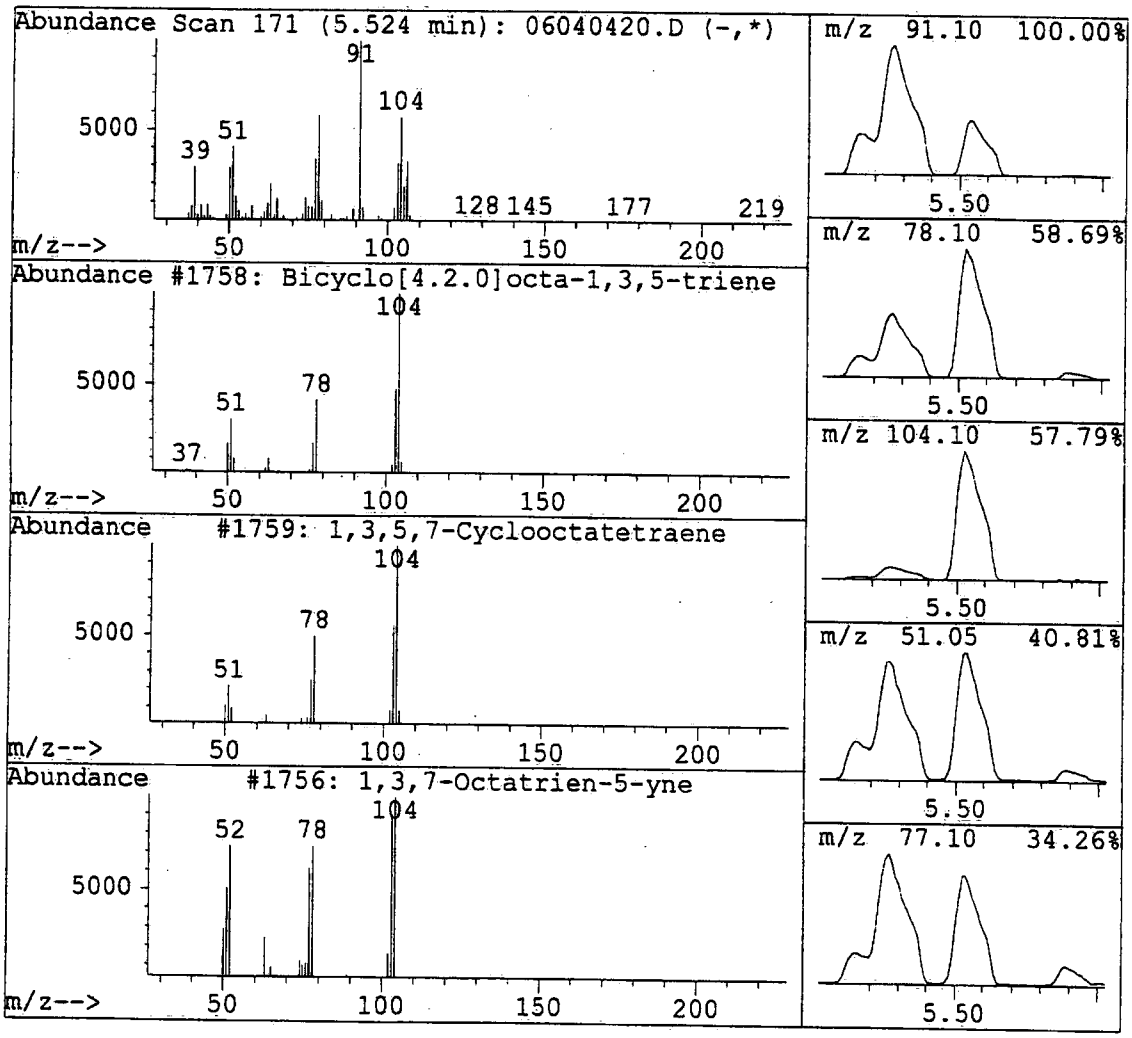
# Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.52 | 11.48 PPB | 9130336 | 1,4-DICHLOROBENZENE-d4 INT. STD. | 6.89 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Bicyclo[4.2.0]octa-1,3,5-triene | 1758 | 000694-87-1 | 95 |
| 2 | 1,3,5,7-Cyclooctatetraene | 1759 | 000629-20-9 | 49 |
| 3 | 1,3,7-Octatrien-5-yne | 1756 | 016607-77-5 | 43 |
| 4 | Benzene, ethenyl- | 1757 | 000100-42-5 | 38 |
| 5 | Butanedioic acid, phenyl- | 18010 | 000635-51-8 | 38 |




32

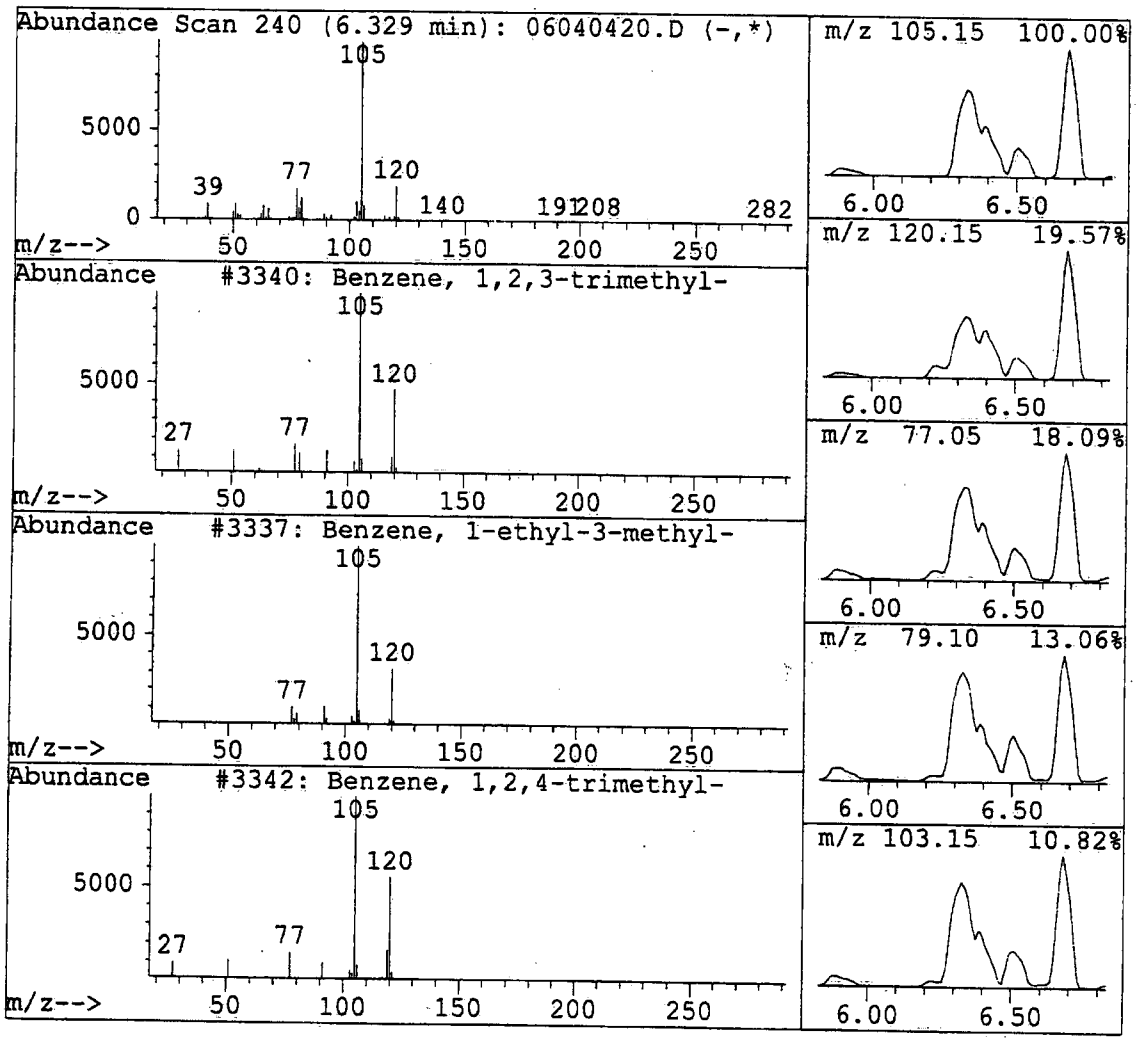
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.33 | 25.24 PPB | 20067579 | 1,4-DICHLOROBENZENE-d4 INT. STD. | 6.89 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 3340 | 000526-73-8 | 91 |
| 2 | Benzene, 1-ethyl-3-methyl- | 3337 | 000620-14-4 | 87 |
| 3 | Benzene, 1,2,4-trimethyl- | 3342 | 000095-63-6 | 81 |
| 4 | Benzene, (1-methylethyl)- | 3331 | 000098-82-8 | 72 |
| 5 | Benzene, 1-ethyl-2-methyl- | 3333 | 000611-14-3 | 68 |




33

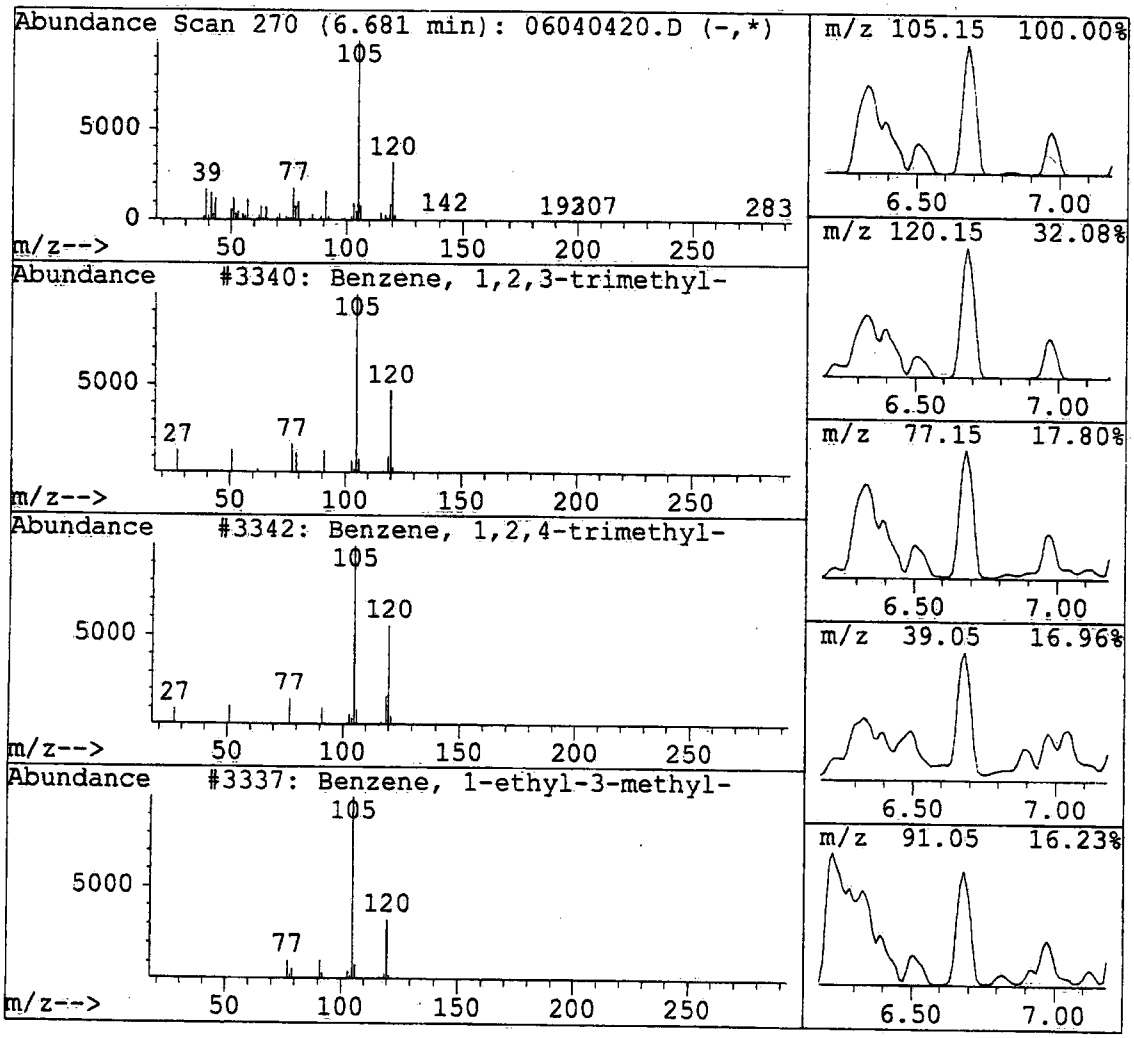
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D Vial: 19
Acq On : 4 Jun 104 11:48 pm Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s. Inst : SVGCMS2
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.68 | 40.00 PPB | 31807742 | 1,4-DICHLOROBENZENE-d4 INT. STD. | 6.89 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 3340 | 000526-73-8 | 95 |
| 2 | Benzene, 1,2,4-trimethyl- | 3342 | 000095-63-6 | 93 |
| 3 | Benzene, 1-ethyl-3-methyl- | 3337 | 000620-14-4 | 91 |
| 4 | Benzene, 1-ethyl-4-methyl- | 3338 | 000622-96-8 | 90 |
| 5 | Benzene, 1-ethyl-2-methyl- | 3333 | 000611-14-3 | 87 |




34

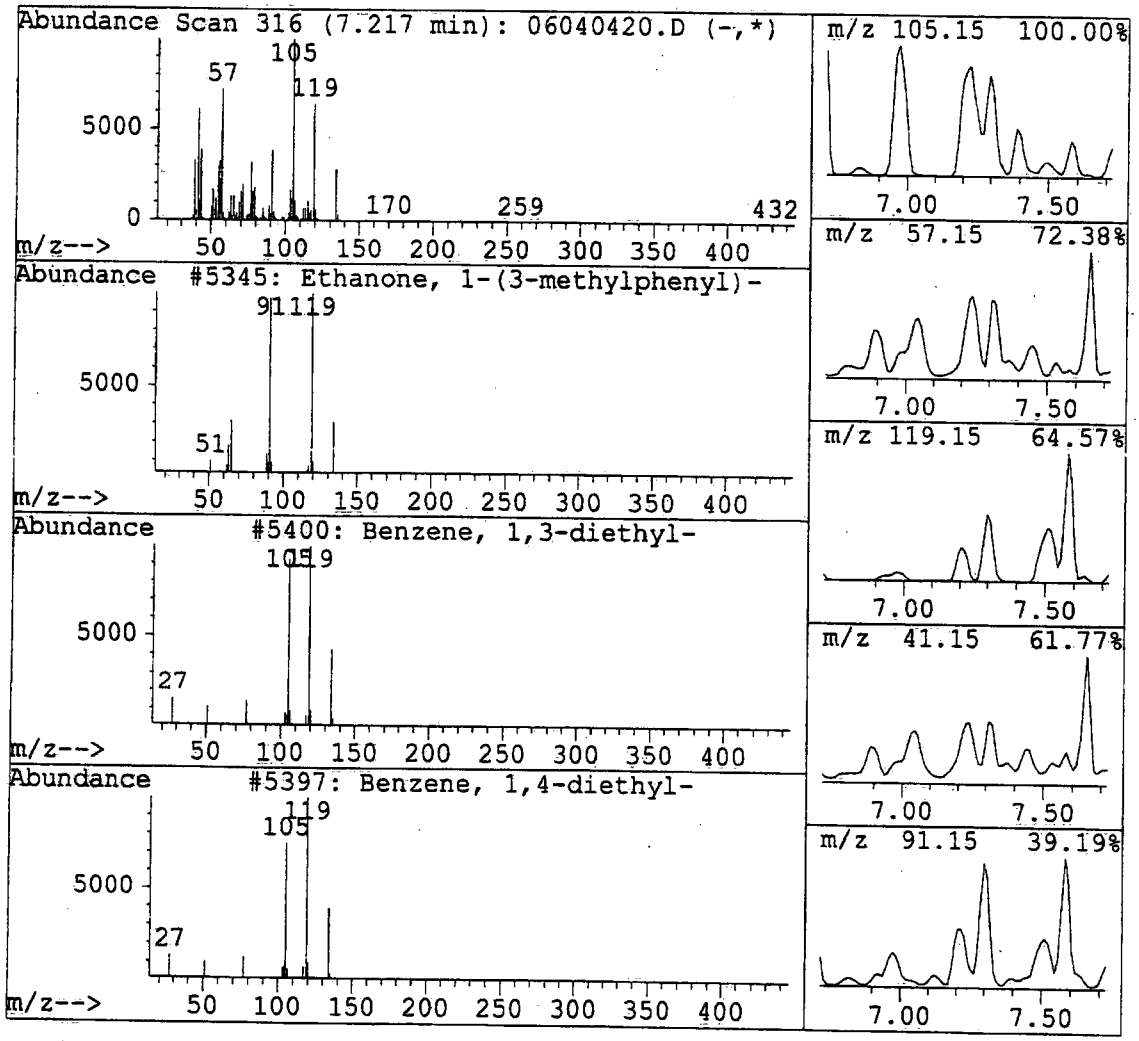
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc 1.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.22 | 7.13 PPB | 5669103 | 1,4-DICHLOROBENZENE-d4 INT. STD. | 6.89 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Ethanone, 1-(3-methylphenyl)- | 5345 | 000585-74-0 | 72 |
| 2 | Benzene, 1,3-diethyl- | 5400 | 000141-93-5 | 49 |
| 3 | Benzene, 1,4-diethyl- | 5397 | 000105-05-5 | 43 |
| 4 | Ethanone, 1-(4-methylphenyl)- | 5365 | 000122-00-9 | 42 |
| 5 | Benzene, 1-methyl-4-(1-methylethyl) | 5387 | 000099-87-6 | 38 |




35

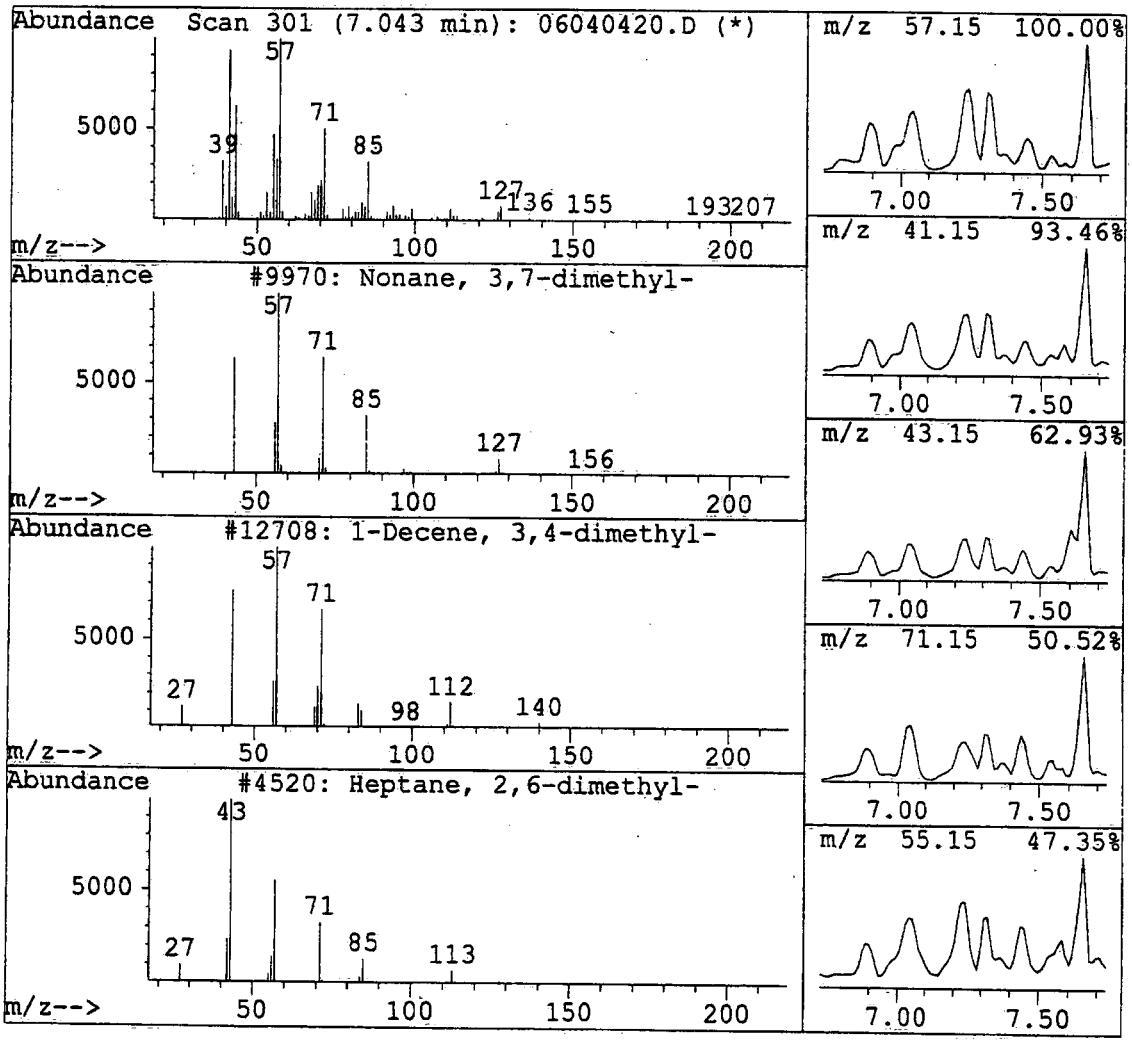
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.23 | 31.56 PPB | 25097026 | 1,4-DICHLOROBENZENE-d4 INT. STD. | 6.89 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Nonane, 3,7-dimethyl- | 9970 | 017302-32-8 | 76 |
| 2 | 1-Decene, 3,4-dimethyl- | 12708 | 050871-03-9 | 53 |
| 3 | Heptane, 2,6-dimethyl- | 4520 | 001072-05-5 | 50 |
| 4 | Decane, 2,9-dimethyl- | 13154 | 001002-17-1 | 50 |
| 5 | Undecane, 3,4-dimethyl- | 16184 | 017312-78-6 | 50 |



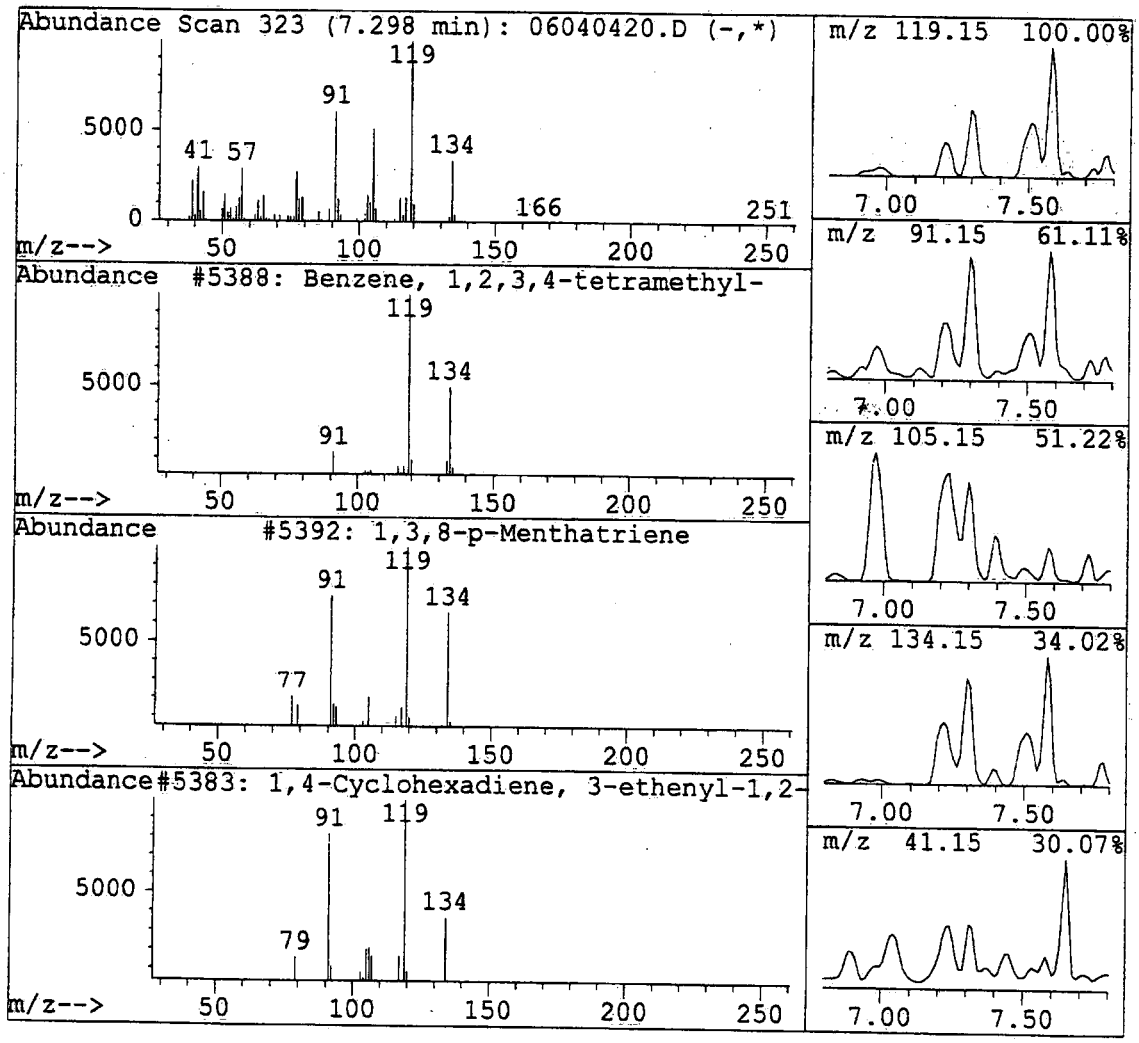
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc 1.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.30 | 12.95 PPB | 10300529 | 1,4-DICHLOROBENZENE-d4 INT. STD. | 6.89 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 5388 | 000488-23-3 | 87 |
| 2 | 1,3,8-p-Menthatriene | 5392 | 021195-59-5 | 83 |
| 3 | 1,4-Cyclohexadiene, 3-ethenyl-1,2-d | 5383 | 062338-57-2 | 81 |
| 4 | Benzene, methyl(1-methylethyl)- | 5393 | 025155-15-1 | 78 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 5395 | 000934-74-7 | 74 |




37

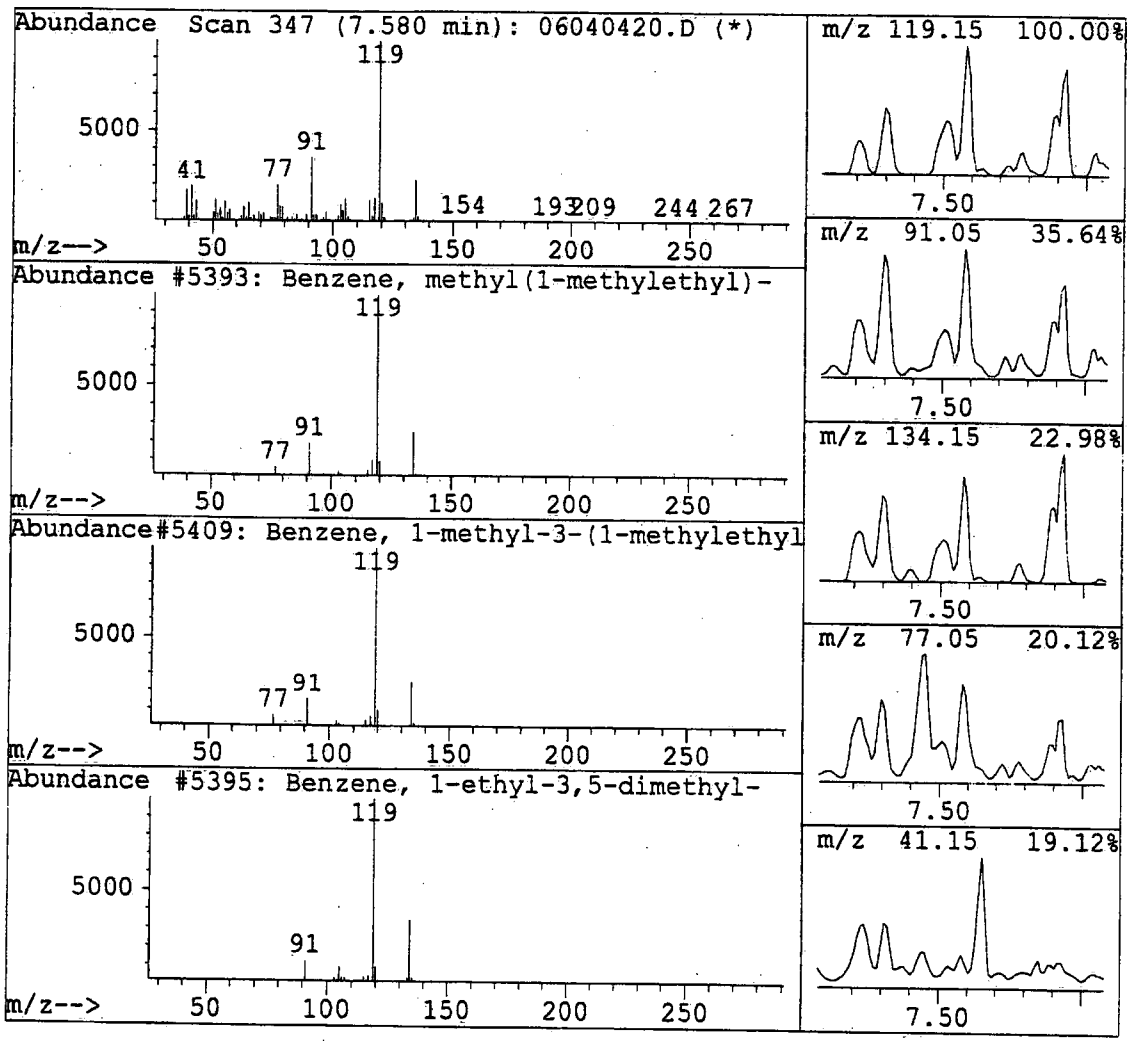
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc 1.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.58 | 22.06 PPB | 17539227 | 1,4-DICHLOROBENZENE-d4 INT. STD. | 6.89 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, methyl(1-methylethyl)- | 5393 | 025155-15-1 | 90 |
| 2 | Benzene, 1-methyl-3-(1-methylethyl) | 5409 | 000535-77-3 | 83 |
| 3 | Benzene, 1-ethyl-3,5-dimethyl- | 5395 | 000934-74-7 | 81 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 5386 | 002870-04-4 | 81 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 5388 | 000488-23-3 | 81 |




38

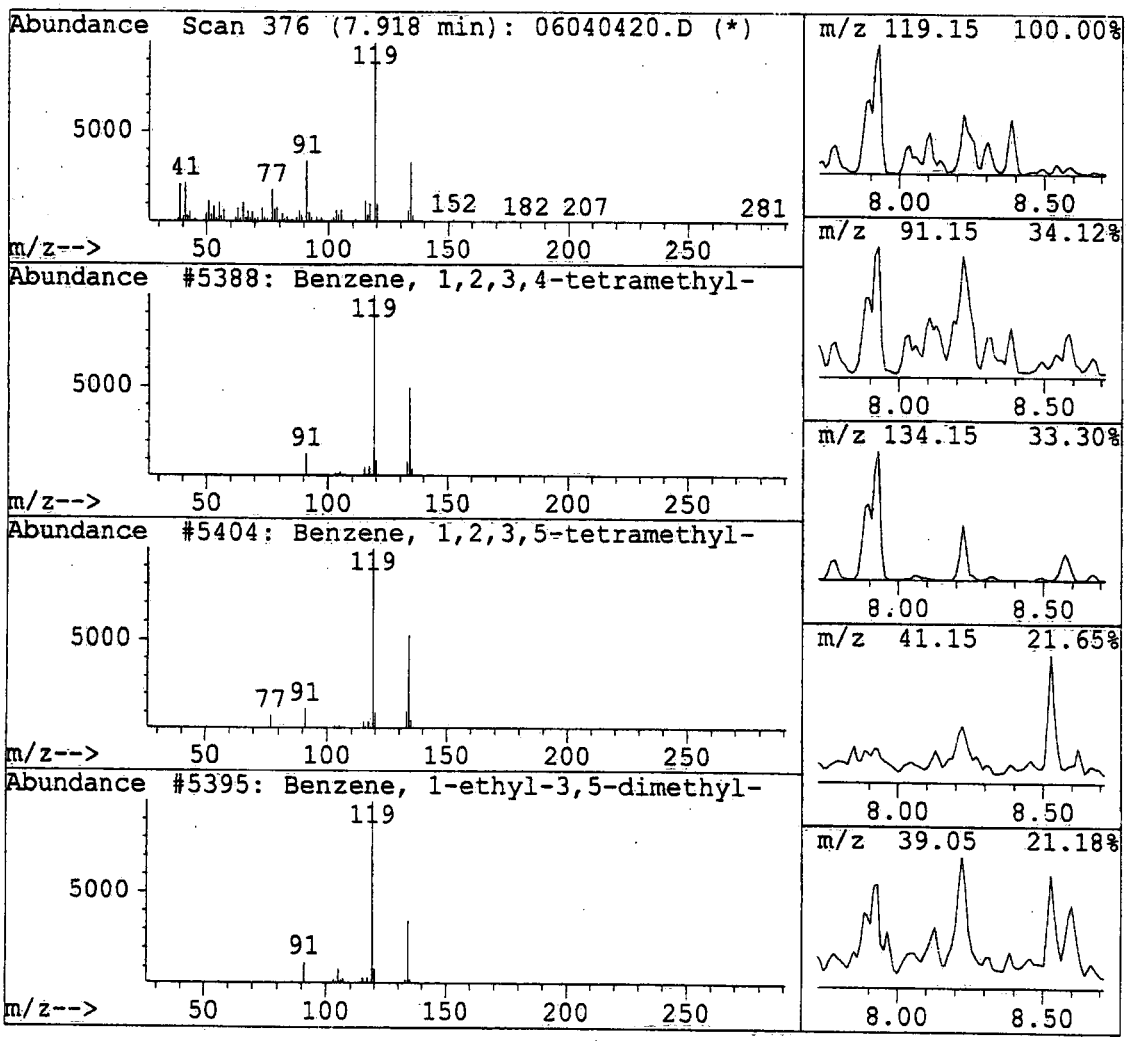
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.22 | 45.84 PPB | 23482124 | NAPHTHALENE-d8 INT. STD. | 8.56 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 5388 | 000488-23-3 | 95 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 5404 | 000527-53-7 | 91 |
| 3 | Benzene, 1-ethyl-3,5-dimethyl- | 5395 | 000934-74-7 | 91 |
| 4 | Benzene, 1-methyl-3-(1-methylethyl) | 5409 | 000535-77-3 | 90 |
| 5 | Benzene, methyl(1-methylethyl)- | 5393 | 025155-15-1 | 90 |




39

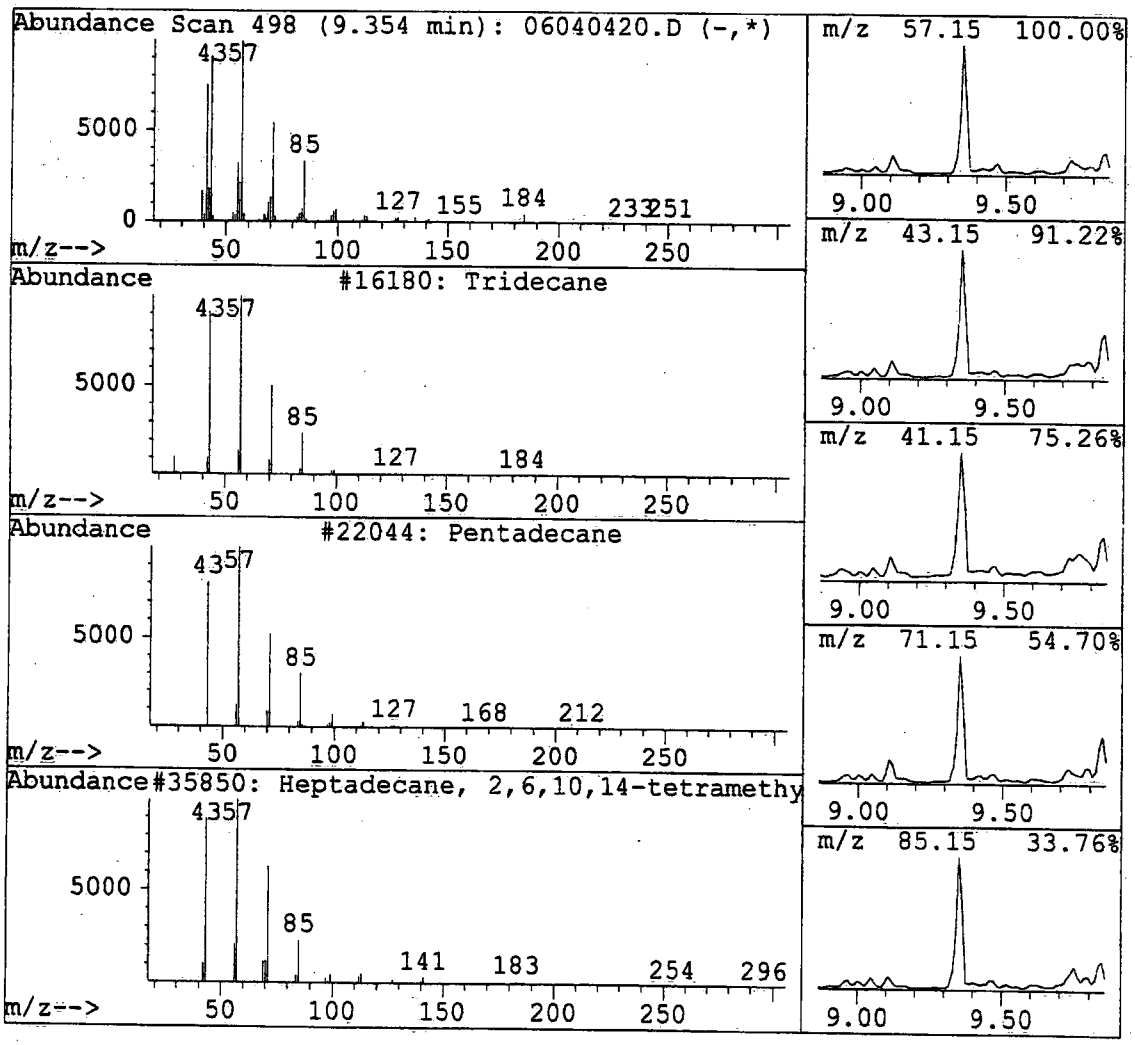
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D Vial: 19
Acq On : 4 Jun 104 11:48 pm Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s. Inst : SVGCMS2
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.35 | 58.82 PPB | 30128290 | NAPHTHALENE-d8 INT. STD. | 8.56 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Tridecane | 16180 | 000629-50-5 | 87 |
| 2 | Pentadecane | 22044 | 000629-62-9 | 80 |
| 3 | Heptadecane, 2,6,10,14-tetramethyl- | 35850 | 018344-37-1 | 72 |
| 4 | 1-Iodo-2-methylundecane | 35665 | 073105-67-6 | 72 |
| 5 | Dodecane | 13141 | 000112-40-3 | 72 |




40

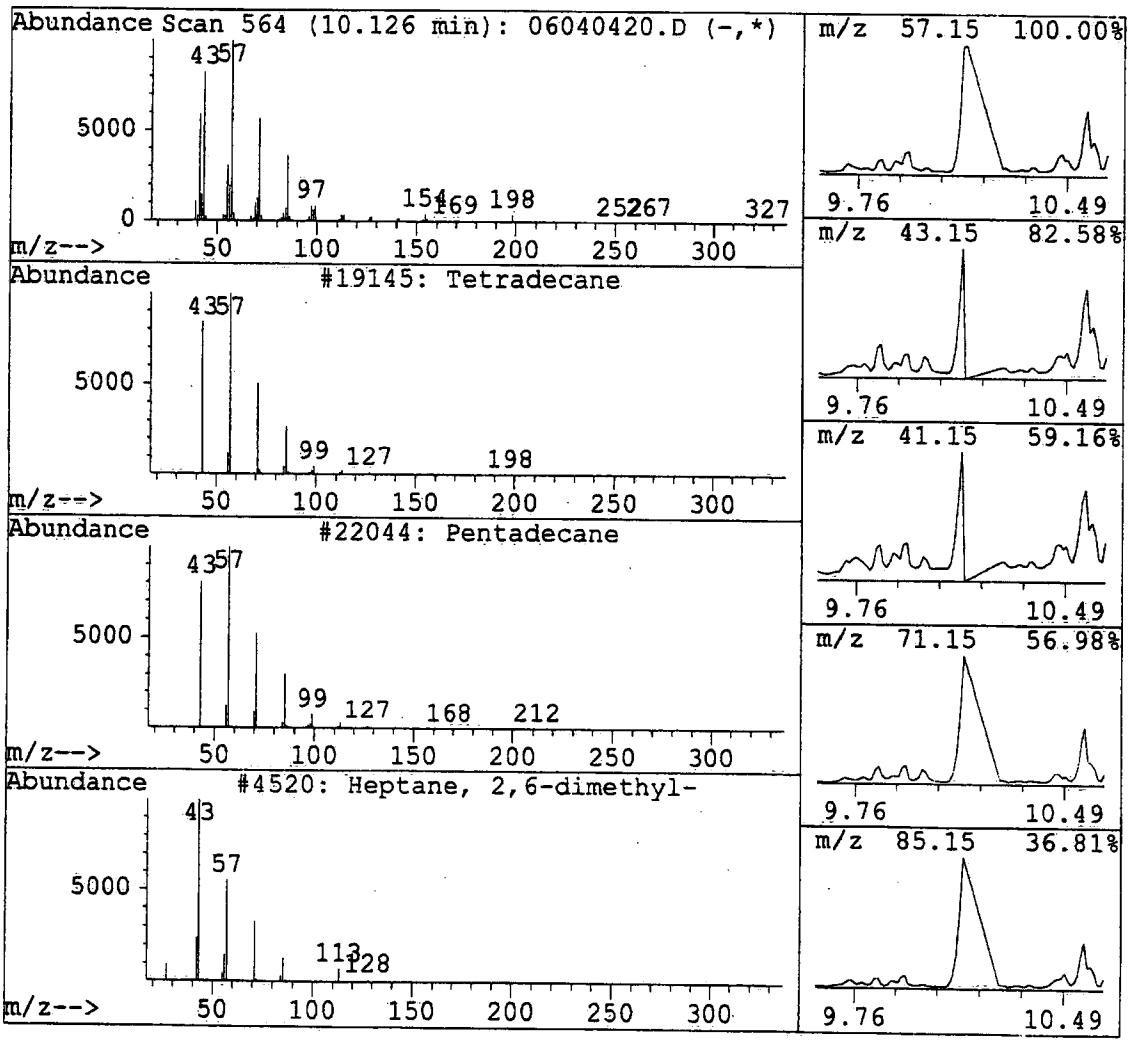
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.13 | 33.57 PPB | 123229739 | ACENAPHTHENE-d10 INT. STD. | 10.86 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Tetradecane | 19145 | 000629-59-4 | 80 |
| 2 | Pentadecane | 22044 | 000629-62-9 | 72 |
| 3 | Heptane, 2,6-dimethyl- | 4520 | 001072-05-5 | 72 |
| 4 | Dodecane | 13141 | 000112-40-3 | 72 |
| 5 | Tetradecane, 2-methyl- | 22045 | 001560-95-8 | 68 |




41

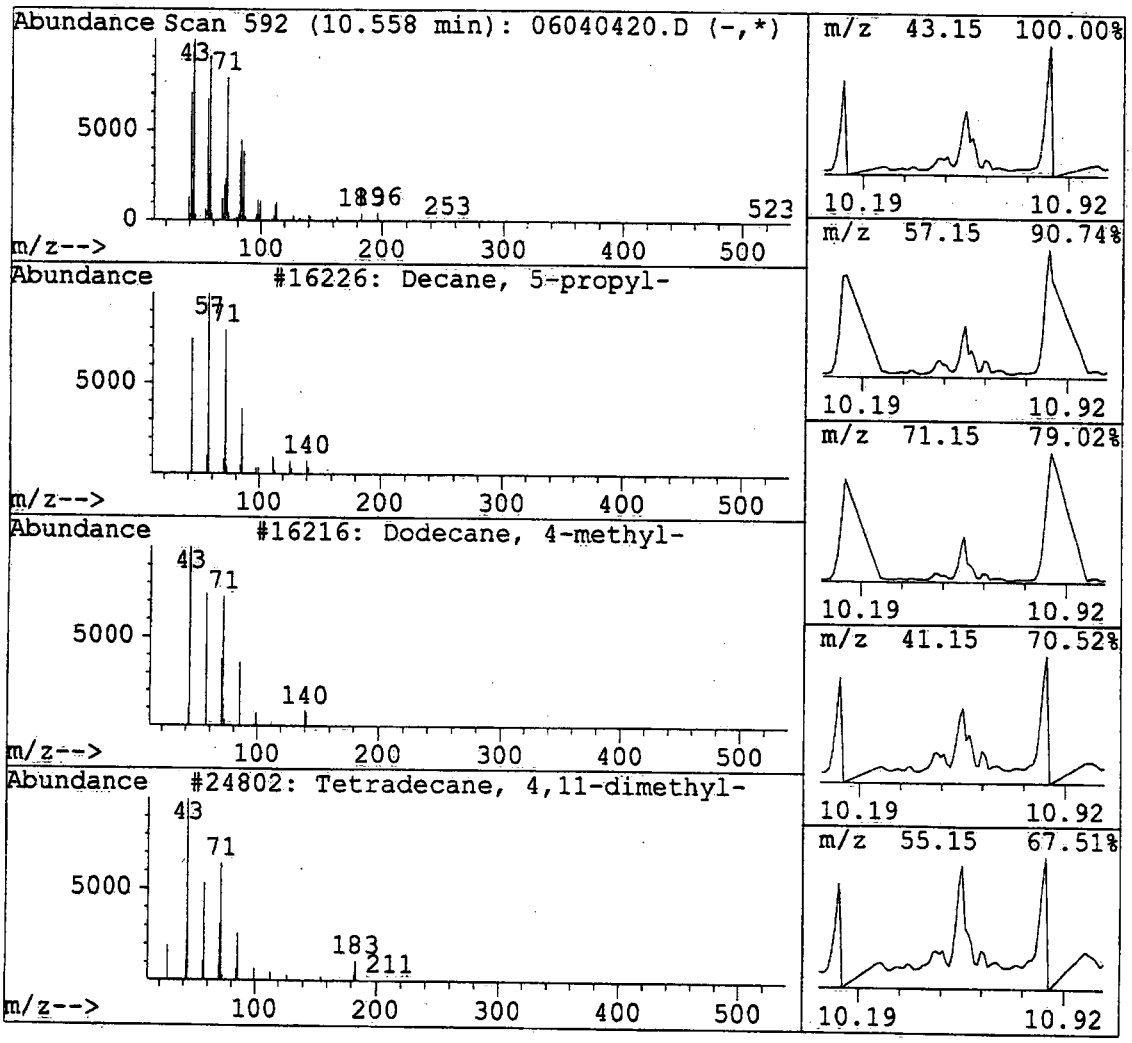
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc I.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.56 | 10.27 PPB | 37709000 | ACENAPHTHENE-d10 INT. STD. | 10.86 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Decane, 5-propyl- | 16226 | 017312-62-8 | 49 |
| 2 | Dodecane, 4-methyl- | 16216 | 006117-97-1 | 49 |
| 3 | Tetradecane, 4,11-dimethyl- | 24802 | 055045-12-0 | 49 |
| 4 | Undecane, 3-ethyl- | 16209 | 017312-58-2 | 47 |
| 5 | Heptane, 2,6-dimethyl- | 4520 | 001072-05-5 | 43 |

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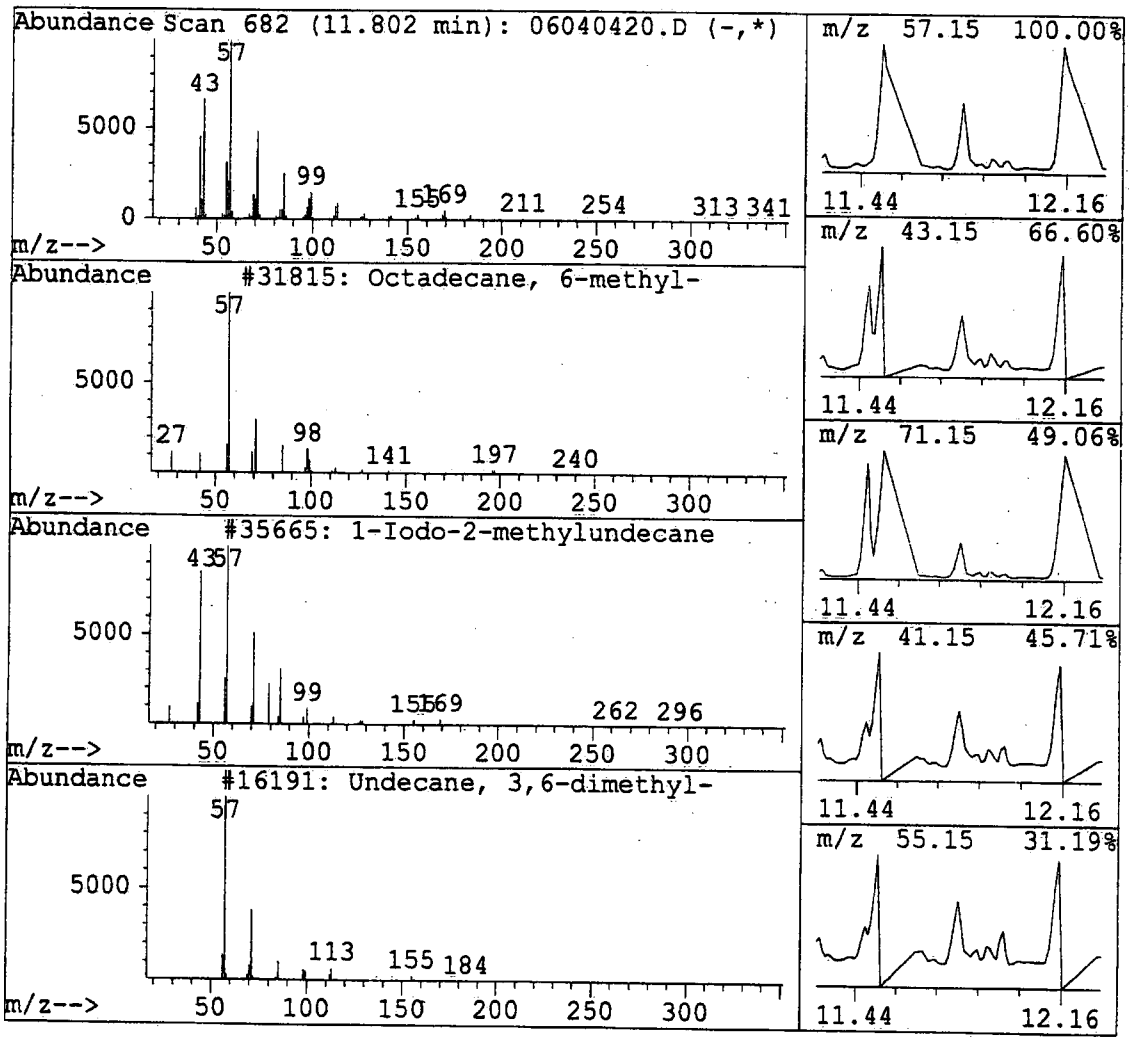
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D Vial: 19
Acq On : 4 Jun 104 11:48 pm Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s. Inst : SVGCMS2
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.80 | 8.37 PPB | 30731900 | ACENAPHTHENE-d10 INT. STD. | 10.86 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Octadecane, 6-methyl- | 31815 | 010544-96-4 | 87 |
| 2 | 1-Iodo-2-methylundecane | 35665 | 073105-67-6 | 86 |
| 3 | Undecane, 3,6-dimethyl- | 16191 | 017301-28-9 | 81 |
| 4 | Tridecane, 5-propyl- | 24819 | 055045-11-9 | 76 |
| 5 | Undecane, 3,5-dimethyl- | 16194 | 017312-81-1 | 76 |



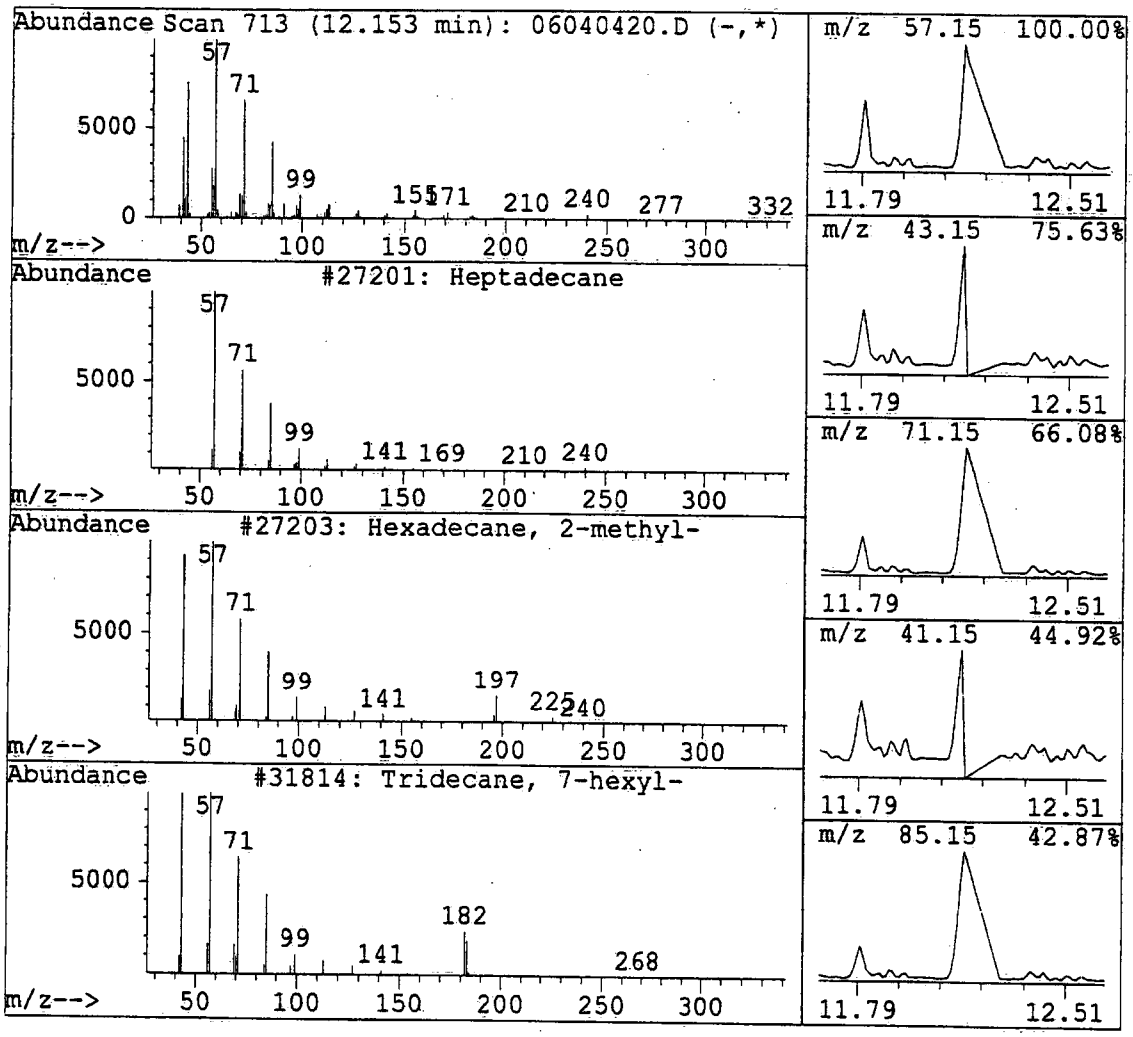

43

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D Vial: 19
Acq On : 4 Jun 104 11:48 pm Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s. Inst : SVGCMS2
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.15 | 277.94 PPB | 152153921 | PHENANTHRENE-d10 INT. STD. | 12.99 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Heptadecane | 27201 | 000629-78-7 | 96 |
| 2 | Hexadecane, 2-methyl- | 27203 | 001560-92-5 | 93 |
| 3 | Tridecane, 7-hexyl- | 31814 | 007225-66-3 | 91 |
| 4 | Octacosane | 45764 | 000630-02-4 | 87 |
| 5 | Docosane | 37669 | 000629-97-0 | 87 |




44

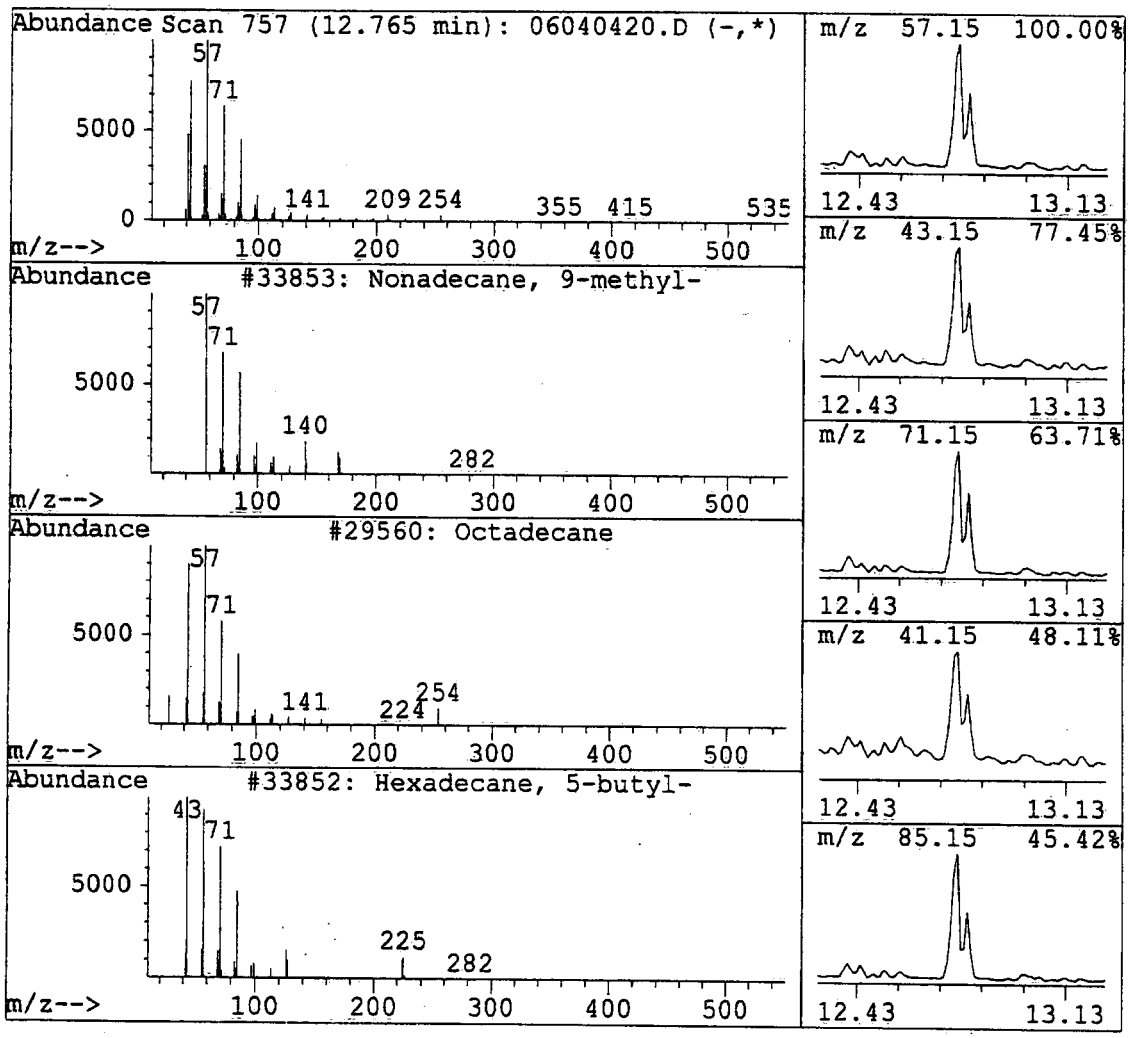
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.77 | 89.81 PPB | 49164410 | PHENANTHRENE-d10 INT. STD. | 12.99 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Nonadecane, 9-methyl- | 33853 | 013287-24-6 | 93 |
| 2 | Octadecane | 29560 | 000593-45-3 | 93 |
| 3 | Hexadecane, 5-butyl- | 33852 | 006912-07-8 | 91 |
| 4 | Heptadecane | 27201 | 000629-78-7 | 83 |
| 5 | Tridecane, 7-hexyl- | 31814 | 007225-66-3 | 83 |




45

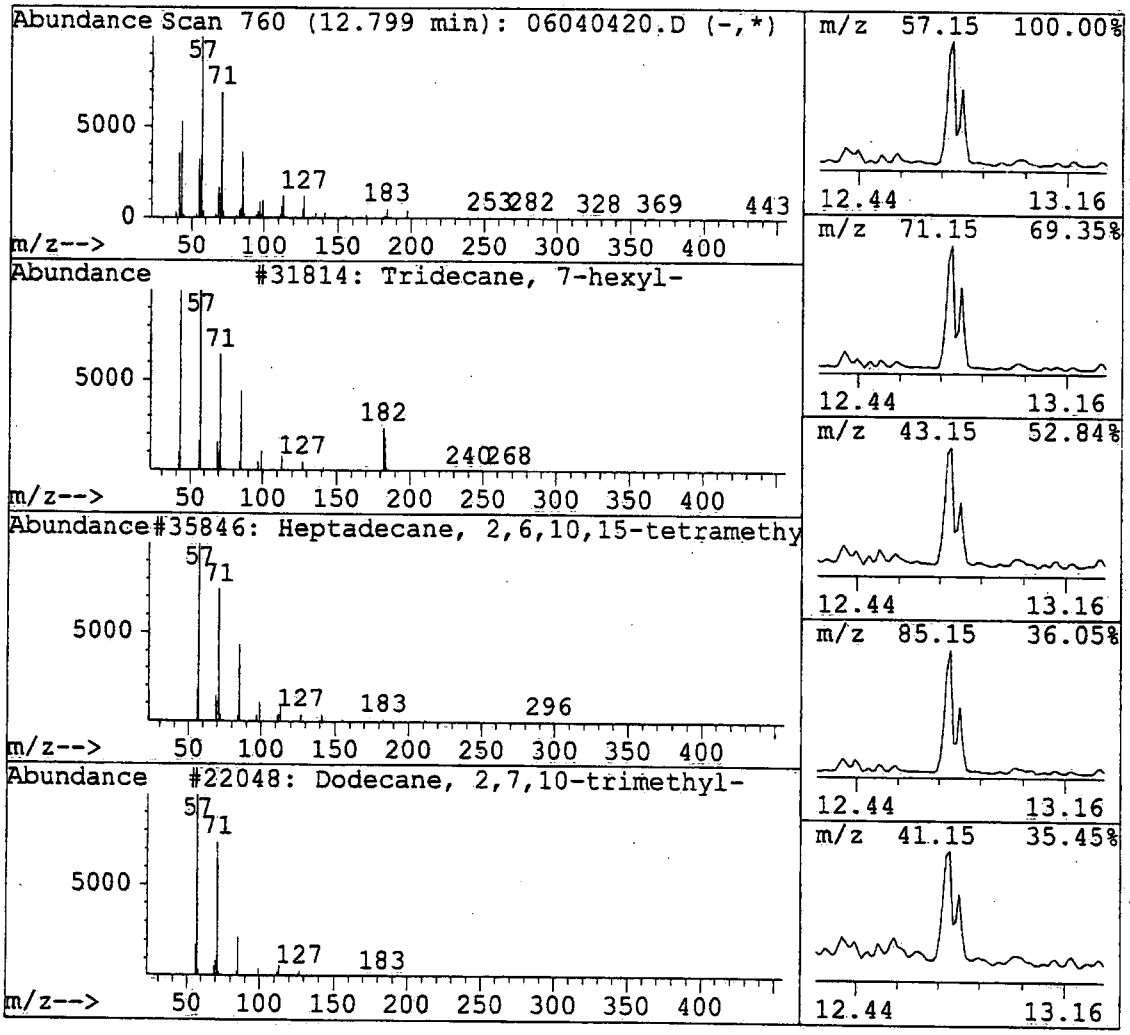
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc 1.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.80 | 40.00 PPB | 21897526 | PHENANTHRENE-d10 INT. STD. | 12.99 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Tridecane, 7-hexyl- | 31814 | 007225-66-3 | 81 |
| 2 | Heptadecane, 2,6,10,15-tetramethyl- | 35846 | 054833-48-6 | 80 |
| 3 | Dodecane, 2,7,10-trimethyl- | 22048 | 074645-98-0 | 80 |
| 4 | Dodecane, 1-bromo- | 28388 | 000143-15-7 | 80 |
| 5 | Nonane, 3,7-dimethyl- | 9970 | 017302-32-8 | 76 |




46

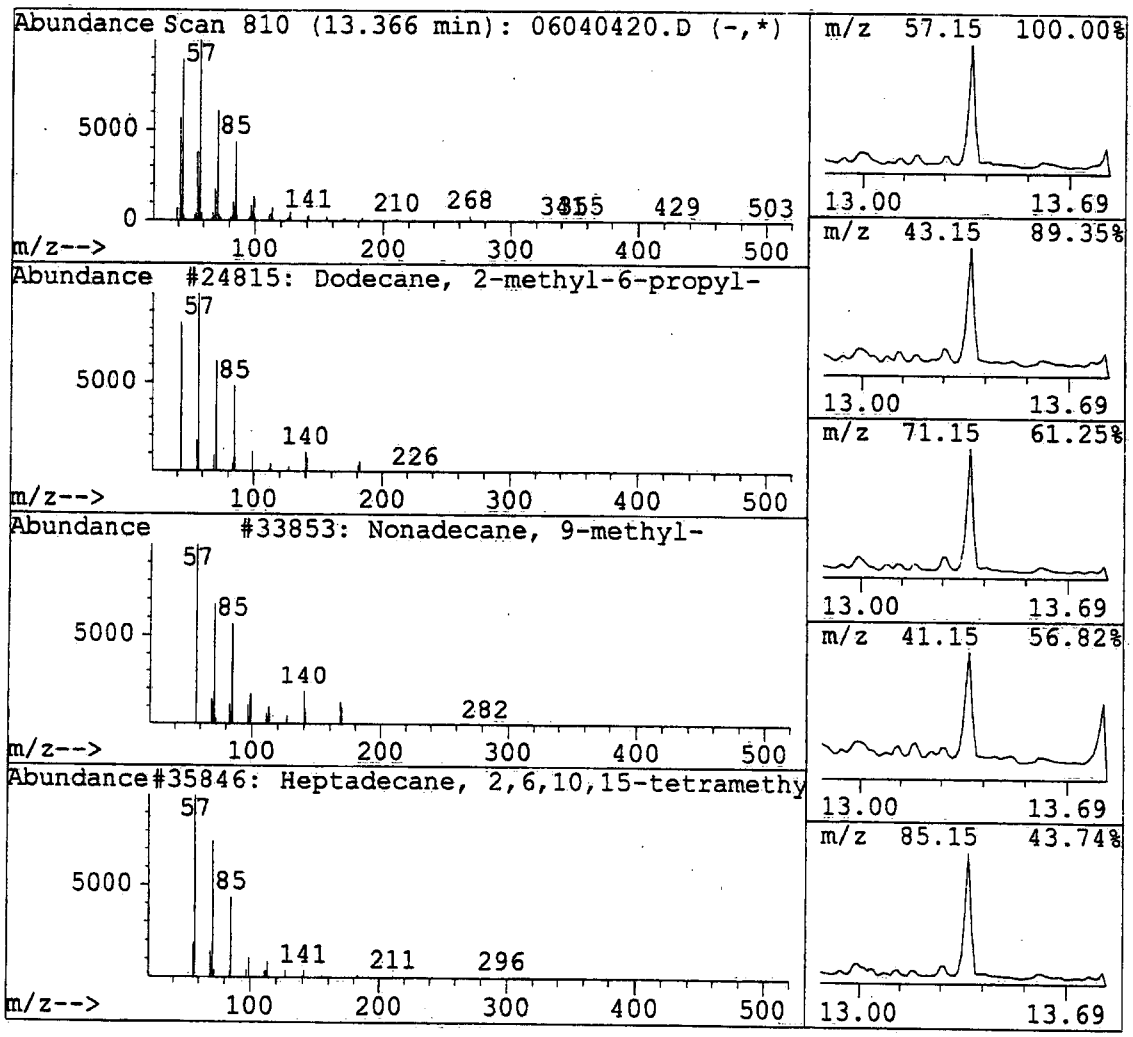
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.37 | 41.55 PPB | 22746506 | PHENANTHRENE-d10 INT. STD. | 12.99 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Dodecane, 2-methyl-6-propyl- | 24815 | 055045-08-4 | 93 |
| 2 | Nonadecane, 9-methyl- | 33853 | 013287-24-6 | 91 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 35846 | 054833-48-6 | 91 |
| 4 | Heptadecane | 27201 | 000629-78-7 | 91 |
| 5 | Docosane | 37669 | 000629-97-0 | 91 |




47

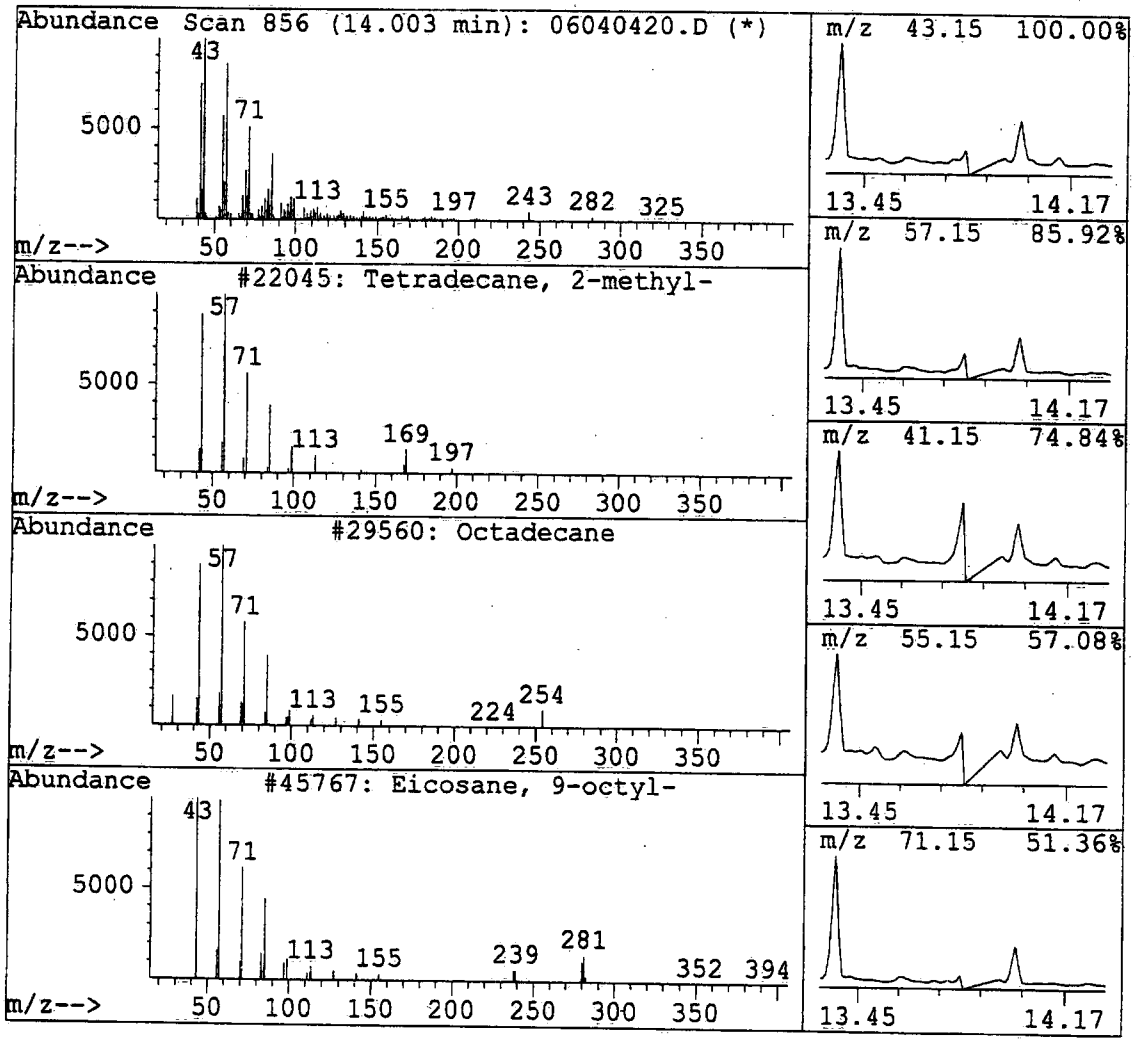
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc 1.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.81 | 82.36 PPB | 45084656 | PHENANTHRENE-d10 INT. STD. | 12.99 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Tetradecane, 2-methyl- | 22045 | 001560-95-8 | 87 |
| 2 | Octadecane | 29560 | 000593-45-3 | 83 |
| 3 | Eicosane, 9-octyl- | 45767 | 013475-77-9 | 83 |
| 4 | Tritetracontane | 52649 | 007098-21-7 | 81 |
| 5 | Pentatriacontane | 50625 | 000630-07-9 | 81 |

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00
Quant Time: Jun 7 9:39 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) 1,4-DICHLOROBENZENE-d4 INT | 6.89 | 150 | 532811 | 40.00 PPB | 0.00 |
| 19) NAPHTHALENE-d8 INT. STD. | 8.56 | 136 | 1104132 | 40.00 PPB | 0.00 |
| 35) ACENAPHTHENE-d10 INT. STD. | 10.86 | 162 | 100126 | 40.00 PPB | -0.07 |
| 54) PHENANTHRENE-d10 INT. STD. | 12.99 | 188 | 800553 | 40.00 PPB | 0.03 |
| 67) CHRYSENE-d12 INT. STD. | 18.49 | 240 | 149146 | 40.00 PPB | 0.04 |
| 75) PERYLENE-d12 INT. STD. | 23.16 | 264 | 59485 | 40.00 PPB | 0.04 |

| System Monitoring Compounds | | | | | %Recovery |
|---|---|---|---|---|---|
| 4) 2-FLUOROPHENOL SURR. | 5.30 | 112 | 84763 | 8.37 PPB | # |
| 5) PHENOL-d6 SURR. | 6.46 | 99 | 165572 | 13.66 PPB | # |
| 20) NITROBENZENE-d5 SURR. | 7.63 | 82 | 184658 | 11.13 PPB | # |
| 39) 2-FLUOROBIPHENYL SURR. | 10.00 | 172 | 245682 | 91.51 PPB | m |
| 58) 2,4,6 TRIBROMOPHENOL SURR. | 12.03 | 330 | 41730 | 18.40 PPB | # |
| 70) TERPHENYL-d14 SURR. | 15.74 | 244 | 122946 | 29.09 PPB | |

| Target Compounds | | | | | Qvalue |
|---|---|---|---|---|---|
| 2) N-NITROSODIMETHYLAMINE | 0.00 | 74 | | Not Detected | |
| 3) PYRIDINE | 0.00 | 79 | | Not Detected | |
| 6) PHENOL | 6.47 | 94 | 958254 | 68.85 PPB # | 83 |
| 7) aniline | 0.00 | 93 | | Not Detected | |
| 8) BIS(2-CHLOROETHYL)ETHER | 0.00 | 93 | | Not Detected | |
| 9) 2-CHLOROPHENOL | 0.00 | 128 | | Not Detected | |
| 10) 1,3 DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 11) 1,4 DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 12) benzyl alcohol | 0.00 | 79 | | Not Detected | |
| 13) 1,2-DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 14) 2-METHYLPHENOL | 0.00 | 108 | | Not Detected | |
| 15) BIS(2-CHLOROISOPROPYL)ETHE | 0.00 | 45 | | Not Detected | |
| 16) 4-METHYLPHENOL | 7.45 | 107 | 1820637 | 144.14 PPB # | 72 |
| 17) N-NITROSO-DI-N-PROPYLAMINE | 0.00 | 43 | | Not Detected | |
| 18) HEXACHLOROETHANE | 0.00 | 117 | | Not Detected | |
| 21) NITROBENZENE | 0.00 | 77 | | Not Detected | |
| 22) ISOPHORONE | 7.96 | 82 | 655385 | 19.65 PPB # | 76 |
| 23) 2,4 DIMETHYLPHENOL | 0.00 | 107 | | Not Detected | |
| 24) benzoic acid | 0.00 | 105 | | Not Detected | |
| 25) 2-NITROPHENOL | 0.00 | 139 | | Not Detected | |
| 26) BIS(2-CHLOROETHOXY)METHANE | 0.00 | 93 | | Not Detected | |
| 27) 2,4 DICHLOROPHENOL | 0.00 | 162 | | Not Detected | |
| 28) 1,2,4 TRICHLOROBENZENE | 8.49 | 180 | 181853 | 17.81 PPB | 93 |
| 29) NAPHTHALENE | 8.60 | 128 | 4656457 | 177.38 PPB | 90 |
| 30) 4-CHLOROANILINE | 0.00 | 127 | | Not Detected | |
| 31) HEXACHLOROBUTADIENE | 0.00 | 225 | | Not Detected | |
| 32) 4-CHLORO-3-METHYLPHENOL | 0.00 | 107 | | Not Detected | |
| 33) 2-METHYLNAPHTHALENE | 9.52 | 142 | 1314272 | 65.52 PPB # | 84 |
| 34) 2-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 36) HEXACHLOROCYCLOPENTADIENE | 0.00 | 237 | | Not Detected | |
| 37) 2,4,6-TRICHLOROPHENOL | 0.00 | 196 | | Not Detected | |
| 38) 2,4,5 TRICHLOROPHENOL | 0.00 | 196 | | Not Detected | |
| 40) 2-CHLORONAPHTHALENE | 0.00 | 162 | | Not Detected | |
| 41) DIMETHYLPHTHALATE | 0.00 | 163 | | Not Detected | |
| 42) 2,6 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 43) ACENAPHTHYLENE | 10.75 | 152 | 101810 | 23.96 PPB m | 77 |

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D Vial: 19
Acq On : 4 Jun 104 11:48 pm Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s. Inst : SVGCMS2
Misc : Multiplr: 1.00
Quant Time: Jun 7 9:39 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 44) 3-NITROANILINE | 0.00 | 65 | | Not Detected | |
| 45) ACENAPHTHENE | 10.99 | 153 | 367738 | 142.23 PPB m | 30 |
| 46) 2,4-DINITROPHENOL | 0.00 | 184 | | Not Detected | |
| 47) 4-NITROPHENOL | 0.00 | 65 | | Not Detected | |
| 48) DIBENZOFURAN | 0.00 | 168 | | Not Detected | |
| 49) 2,4 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 50) DIETHYLPHTHLATE | 11.50 | 149 | 737906 | 167.14 PPB m | 60 |
| 51) 4-CHLOROPHENYLPHENYL ETHER | 0.00 | 204 | | Not Detected | |
| 52) FLUORENE | 11.69 | 166 | 827472 | 266.17 PPB m | 86 |
| 53) 4-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 55) 4,6-DINITRO-2-METHYLPHENOL | 0.00 | 198 | | Not Detected | |
| 56) N-NITROSODIPHENYLAMINE | 0.00 | 168 | | Not Detected | |
| 57) 1,2 DIPHENYLHYDRAZINE | 11.90 | 77 | 1596826 | 56.60 PPB # | 24 |
| 59) 4-BROMOPHENYLPHENYL ETHER | 0.00 | 248 | | Not Detected | |
| 60) HEXACHLOROBENZENE | 0.00 | 284 | | Not Detected | |
| 61) PENTACHLOROPHENOL | 0.00 | 266 | | Not Detected | |
| 62) PHENANTHRENE | 13.03 | 178 | 1338015 | 62.49 PPB | 91 |
| 63) ANTHRACENE | 13.11 | 178 | 151894 | 6.96 PPB # | 76 |
| 64) CARBAZOLE | 0.00 | 167 | | Not Detected | |
| 65) DI-N-BUTYLPHTHALATE | 13.81 | 149 | 21255535 | 611.59 PPB | 93 |
| 66) FLUORANTHENE | 15.00 | 202 | 381796 | 17.13 PPB | 95 |
| 68) BENZIDINE | 0.00 | 184 | | Not Detected | |
| 69) PYRENE | 15.47 | 202 | 364229 | 59.55 PPB | 90 |
| 71) BUTYLBENZYLPHTHALATE | 16.92 | 149 | 2788141 | 718.05 PPB # | 60 |
| 72) BIS(2-ETHYLHEXYL)PHTHALATE | 18.55 | 149 | 8080668 | 1529.73 PPB | 81 |
| 73) BENZO(A)ANTHRACENE | 18.47 | 228 | 59198 | 13.16 PPB | 89 |
| 74) CHRYSENE | 18.58 | 228 | 65916 | 15.02 PPB | 93 |
| 76) 3,3'-DICHLOROBENZIDINE | 0.00 | 252 | | Not Detected | |
| 77) DI-N-OCTYL PHTHALATE | 20.61 | 149 | 77917 | 17.51 PPB m | 77 |
| 78) BENZO(B)FLOURANTHENE | 21.91 | 252 | 33423 | 15.68 PPB m | 97 |
| 79) BENZO(K)FLUORANTHENE | 22.00 | 252 | 6946 | 3.30 PPB m | 64 |
| 80) BENZO(A)PYRENE | 23.00 | 252 | 12621 | 7.19 PPB m | 70 |
| 81) DIBENZO(A,H)ANTHRACENE | 26.80 | 278 | 1767 | 1.77 PPB m | 56 |
| 82) INDENO(1,2,3-CD)PYRENE | 26.76 | 276 | 5581 | 4.53 PPB m | 51 |
| 83) BENZO(G,H,I)PERYLENE | 27.59 | 276 | 5717 | 5.90 PPB m | 1 |

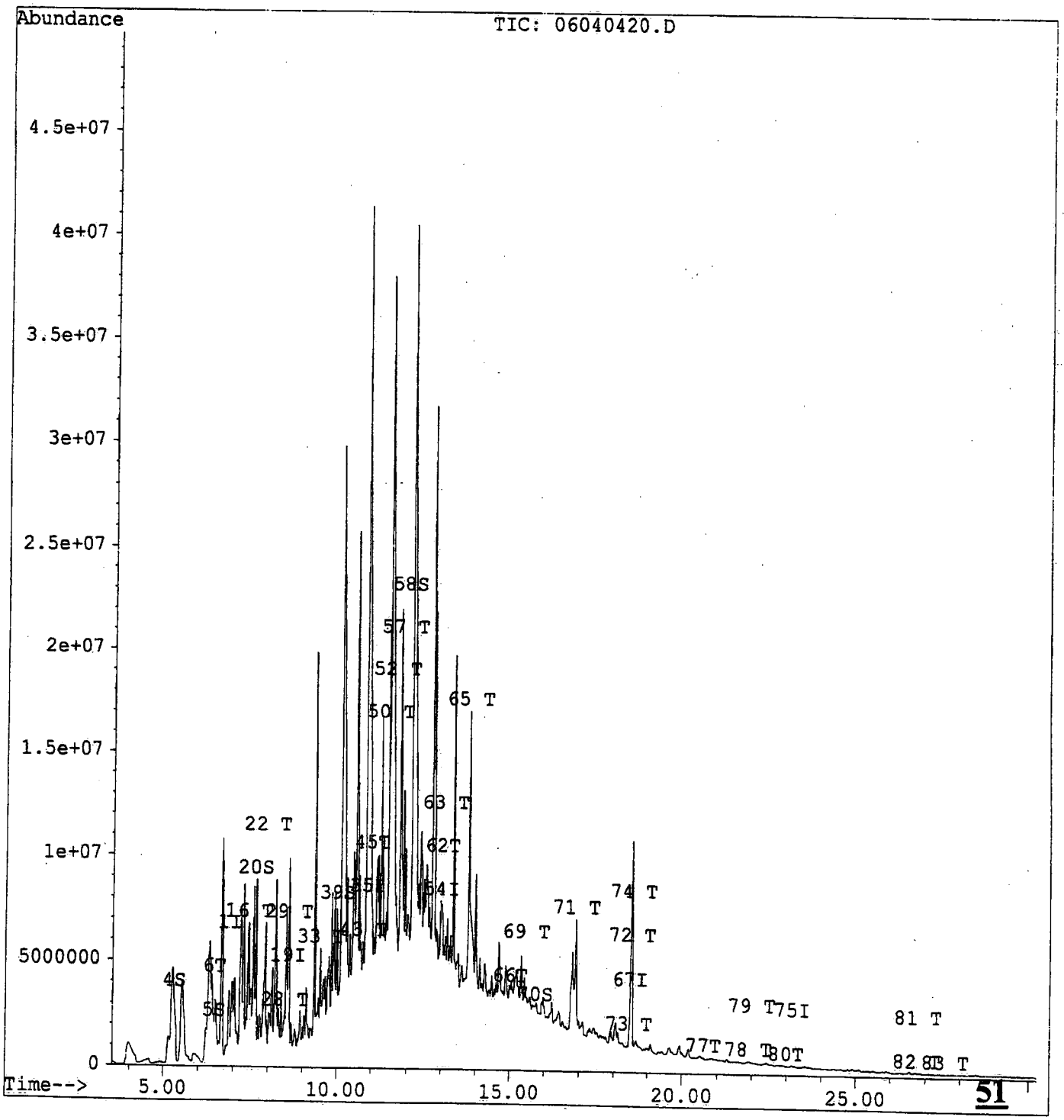
50

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc : -  Multiplr: 1.00
Quant Time: Jun 7 9:39 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration



VOCs BY EPA METHOD 8260 -
LIBRARY SEARCH REPORTS FOR TENTATIVELY IDENTIFIED COMPOUNDS
FOR ECOTEST SAMPLE Nos. 242358.01-.03

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
242358.01

Lab Name: ECOTEST LABS Contract: _____

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

Matrix: (soil/water) Soil Lab Sample ID: 242358.01

Sample wt/vol: 5.0 (g/mL) g Lab File ID: 06030414.D

Level: (low/med) Low Date Received: 6/2/04

% Solid: 69 Date Analyzed: 6/3/04

GC Column: MXT-624 ID: 0.53 (mm) Dilution Factor: 1000

Soil Extract Volume: 5.0 (mL) Soil Aliquot Volume: 5 (uL)

Number TICs found: 9 Concentration Units: (ug/L or ug/Kg) ug/Kg

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. 002207-03-6 | Cyclohexane, 1,3-dimethyl-, tra | 11.66 | 14000 | J |
| 2. 000815-24-7 | 3-Pentanone, 2,2,4,4-tetrameth | 18.06 | 41000 | J |
| 3. 000138-86-3 | Limonene | 18.85 | 62000 | J |
| 4. 000135-01-3 | Benzene, 1,2-diethyl- | 19.58 | 18000 | J |
| 5. 021078-65-9 | 1-Decanol, 2-ethyl- | 19.66 | 31000 | J |
| 6. 000934-80-5 | Benzene, 4-ethyl-1,2-dimethyl- | 20.42 | 27000 | J |
| 7. 000527-53-7 | Benzene, 1,2,3,5-tetramethyl- | 21.23 | 25000 | J |
| 8. 000091-66-7 | Benzenamine, N,N-diethyl- | 23.51 | 41000 | J |
| 9. 000101-84-8 | Benzene, 1,1'-oxybis- | 26.89 | 15000 | J |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

# Library Search Compound Report

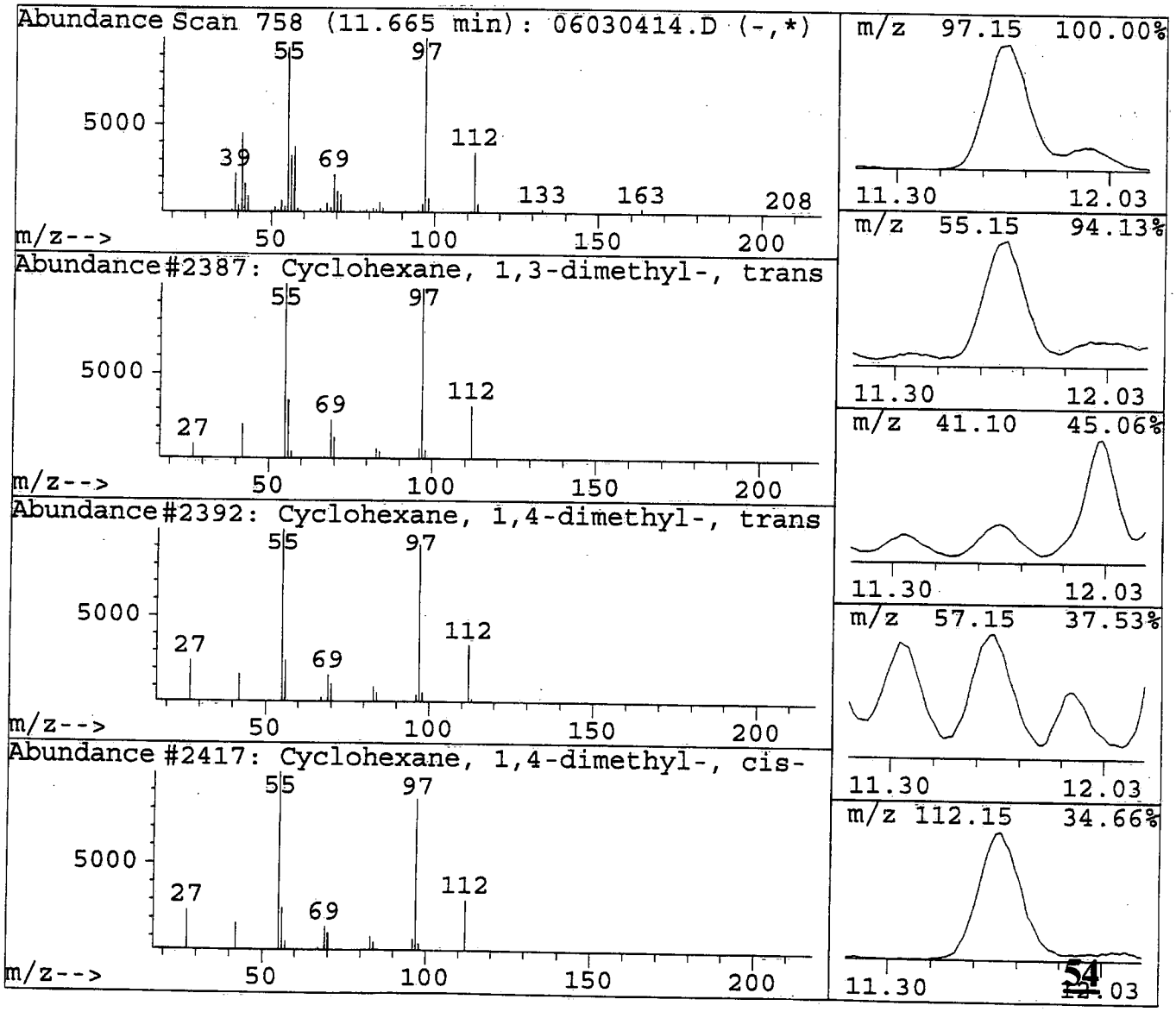
Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.66 | 13.77 ug/L | 3077911 | 1,4-difluorobenzene | 9.00 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Cyclohexane, 1,3-dimethyl-, trans- | 2387 | 002207-03-6 | 83 |
| 2 | Cyclohexane, 1,4-dimethyl-, trans- | 2392 | 002207-04-7 | 91 |
| 3 | Cyclohexane, 1,4-dimethyl-, cis- | 2417 | 000624-29-3 | 87 |
| 4 | Cyclohexane, 1,3-dimethyl-, cis- | 2399 | 000638-04-0 | 80 |
| 5 | Cyclohexane, 1,2-dimethyl-, trans- | 2397 | 006876-23-9 | 72 |



# Library Search Compound Report

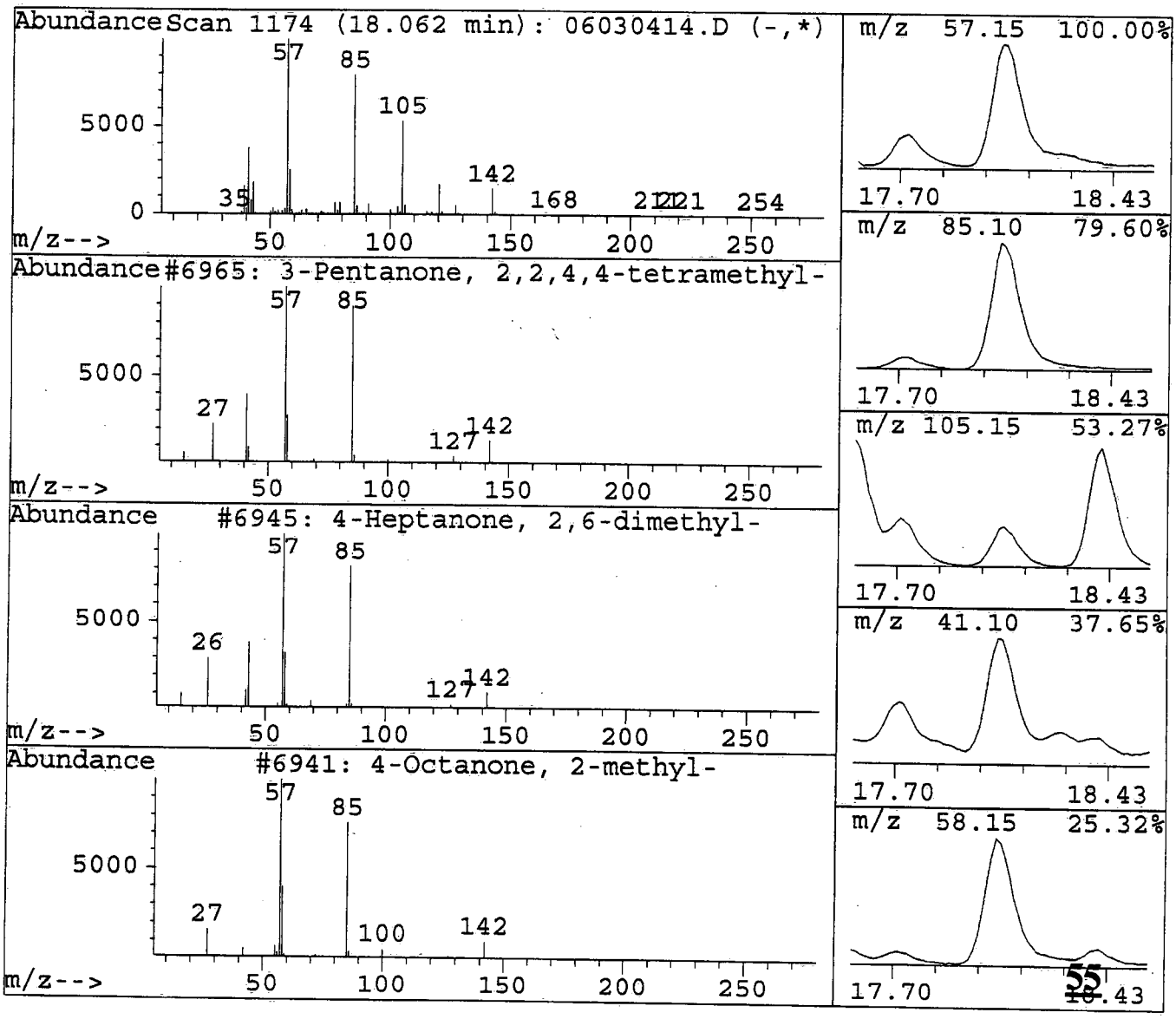
Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.06 | 41.37 ug/L | 27322039 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | 3-Pentanone, 2,2,4,4-tetramethyl- | 6965 | 000815-24-7 | 81 |
| 2 | 4-Heptanone, 2,6-dimethyl- | 6945 | 000108-83-8 | 64 |
| 3 | 4-Octanone, 2-methyl- | 6941 | 007492-38-8 | 58 |
| 4 | Pyrrolidine, 1-(1-isobutyl-3-methyl | 18376 | 003494-04-0 | 64 |
| 5 | Butanoic acid, 3-methyl-, 2-methylp | 10249 | 000589-59-3 | 33 |



# Library Search Compound Report

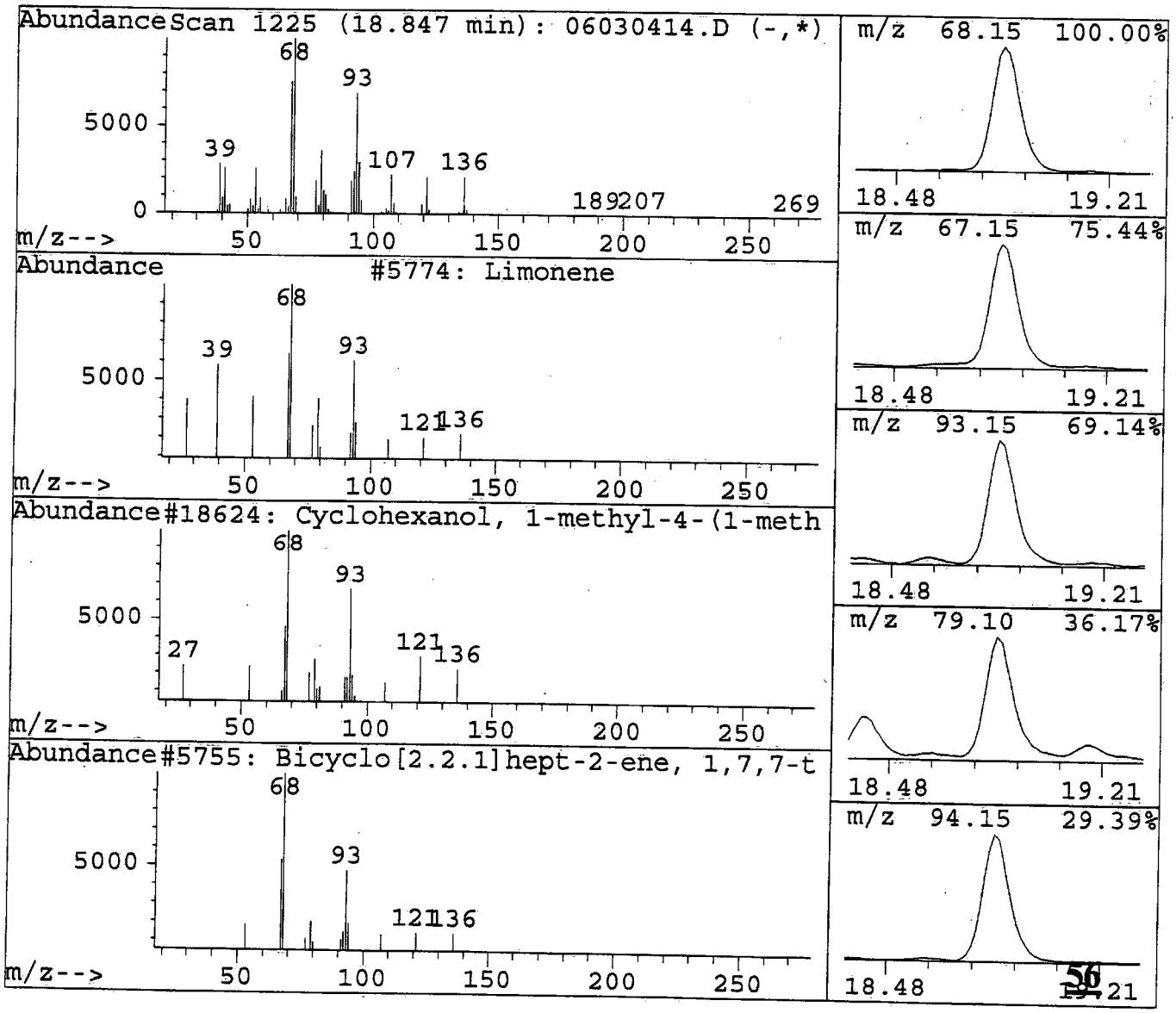
Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.85 | 62.36 ug/L | 41180204 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Limonene | 5774 | 000138-86-3 | 93 |
| 2 | Cyclohexanol, 1-methyl-4-(1-methyle | 18624 | 010198-23-9 | 72 |
| 3 | Bicyclo[2.2.1]hept-2-ene, 1,7,7-tri | 5755 | 000464-17-5 | 93 |
| 4 | D-Limonene | 5790 | 005989-27-5 | 81 |
| 5 | Cyclohexene, 1-methyl-4-(1-methylet | 5798 | 005989-54-8 | 70 |



# Library Search Compound Report

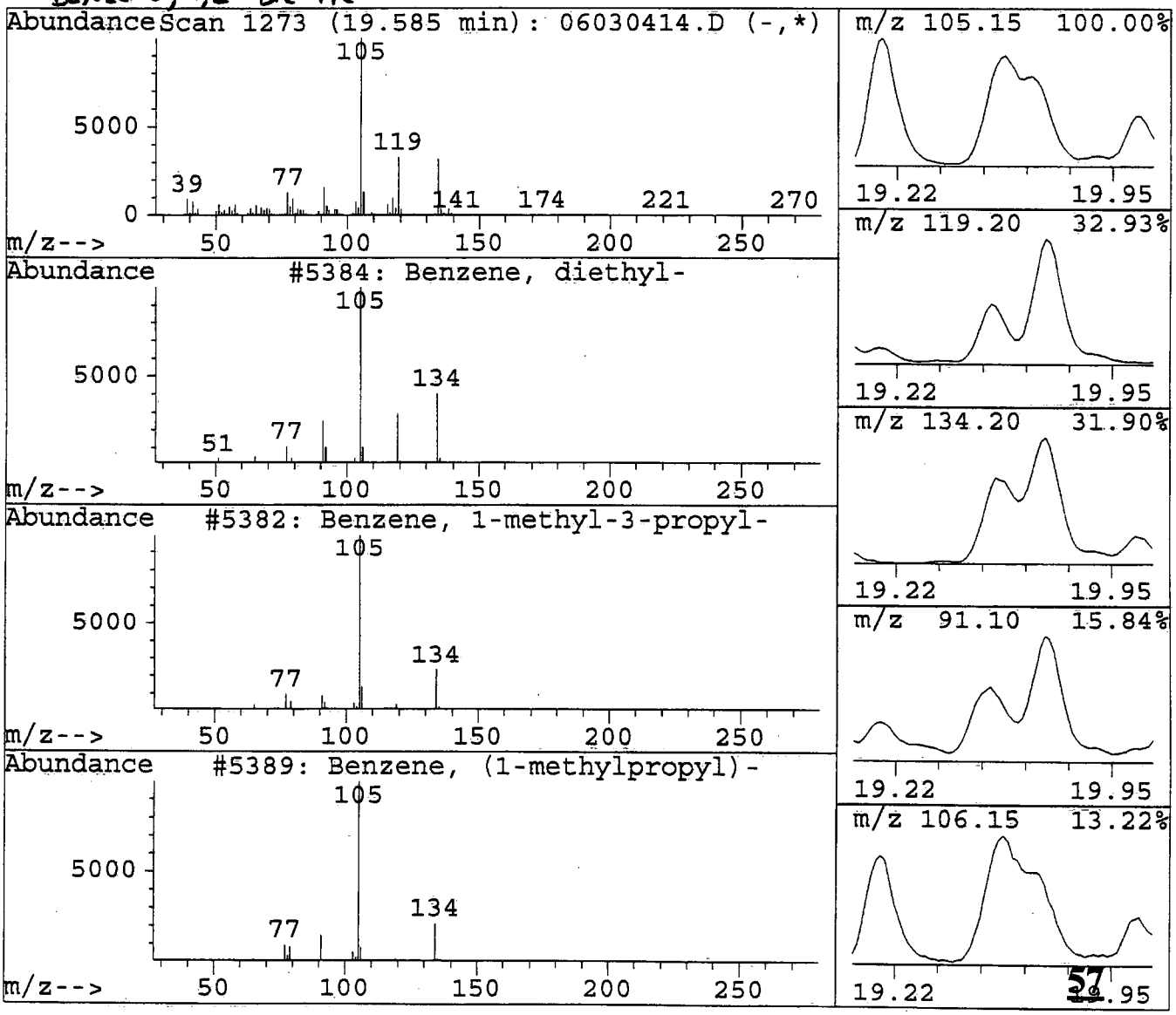
Data File : C:\HPCHEM\2\DATA\060304\06030414.D  Vial: 14
Acq On : 3 Jun 104 6:22 pm  Operator: JFG
Sample : 2358.01 5ul  Inst : 5970 - In
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.58 | 17.67 ug/L | 11665942 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| ⊗ | Benzene, diethyl- | 5384 | 025340-17-4 | 68 |
| 2 | Benzene, 1-methyl-3-propyl- | 5382 | 001074-43-7 | 70 |
| 3 | Benzene, (1-methylpropyl)- | 5389 | 000135-98-8 | 58 |
| 4 | Benzene, 1-methyl-2-propyl- | 5413 | 001074-17-5 | 46 |
| 5 | Benzene, 1-methyl-4-propyl- | 5401 | 001074-55-1 | 38 |

BENZENE, 1,2-DIETHYL-



Benzene, 1,2-diethyl-

| | |
|---|---|
| Match Quality : | 64 |
| Entry Number : | 5398 |
| CAS Number : | 000135-01-3 |
| Molecular Weight : | 134.11 |
| Molecular Formula: | C10H14 |
| Retention Index : | 0 |
| Company ID : | NIST 1/90 |
| Melting Point : | |
| Boiling Point : | |
| Misc Information : | |

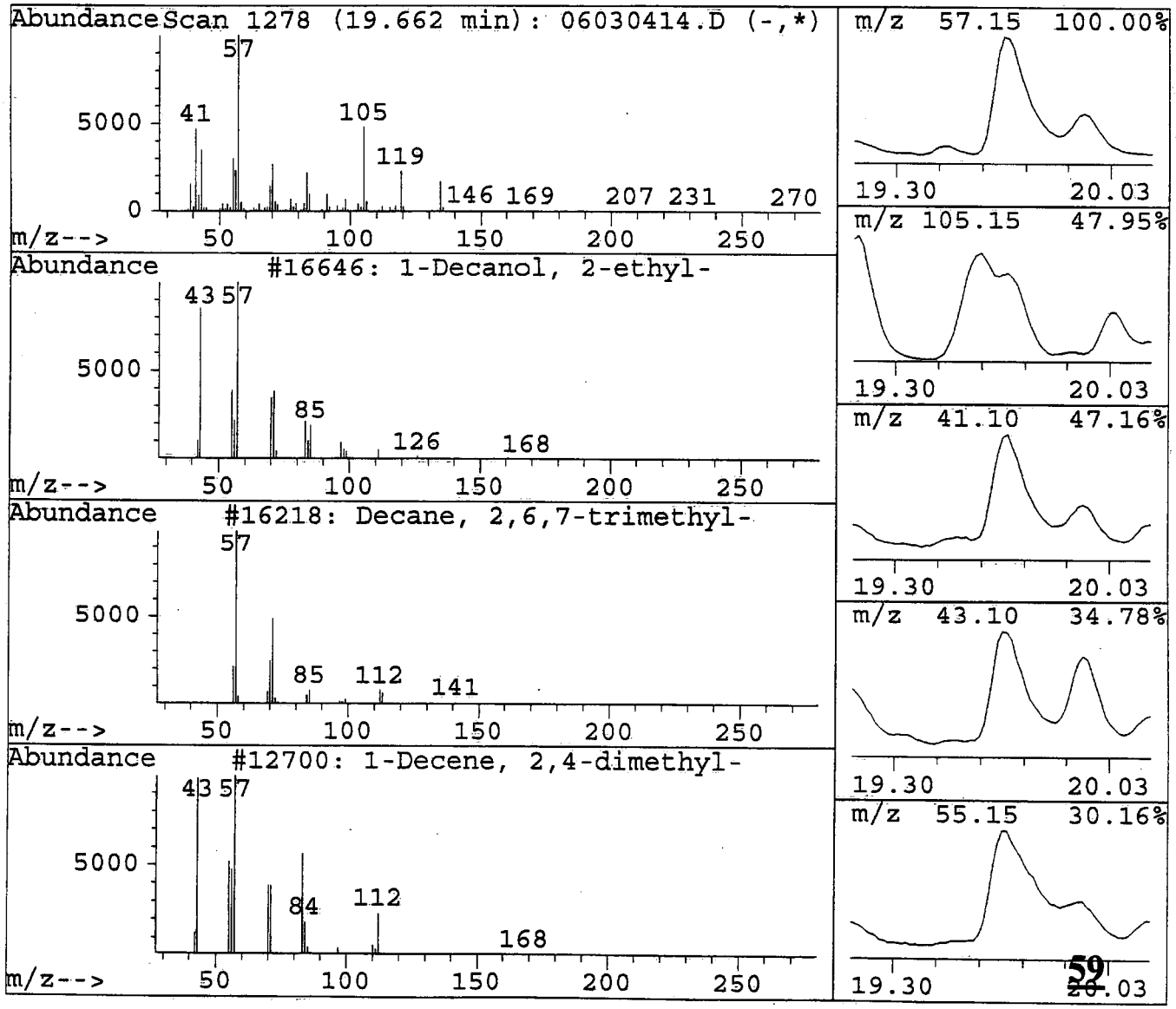
# Library Search Compound Report

Data File : C:\HPCHEM\2\DATA\060304\06030414.D  Vial: 14
Acq On : 3 Jun 104 6:22 pm  Operator: JFG
Sample : 2358.01 5ul  Inst : 5970 - In
Misc :  Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.66 | 31.26 ug/L | 20643680 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | 1-Decanol, 2-ethyl- | 16646 | 021078-65-9 | 50 |
| 2 | Decane, 2,6,7-trimethyl- | 16218 | 062108-25-2 | 38 |
| 3 | 1-Decene, 2,4-dimethyl- | 12700 | 055170-80-4 | 38 |
| 4 | 2-Heptenal, (Z)- | 2347 | 057266-86-1 | 27 |
| 5 | 1-Hexanol, 3-methyl- | 2999 | 013231-81-7 | 22 |






06030414.D VS061704.M Fri Jun 18 15:12:52 2004 5970- INSTRUMENT2

# Library Search Compound Report

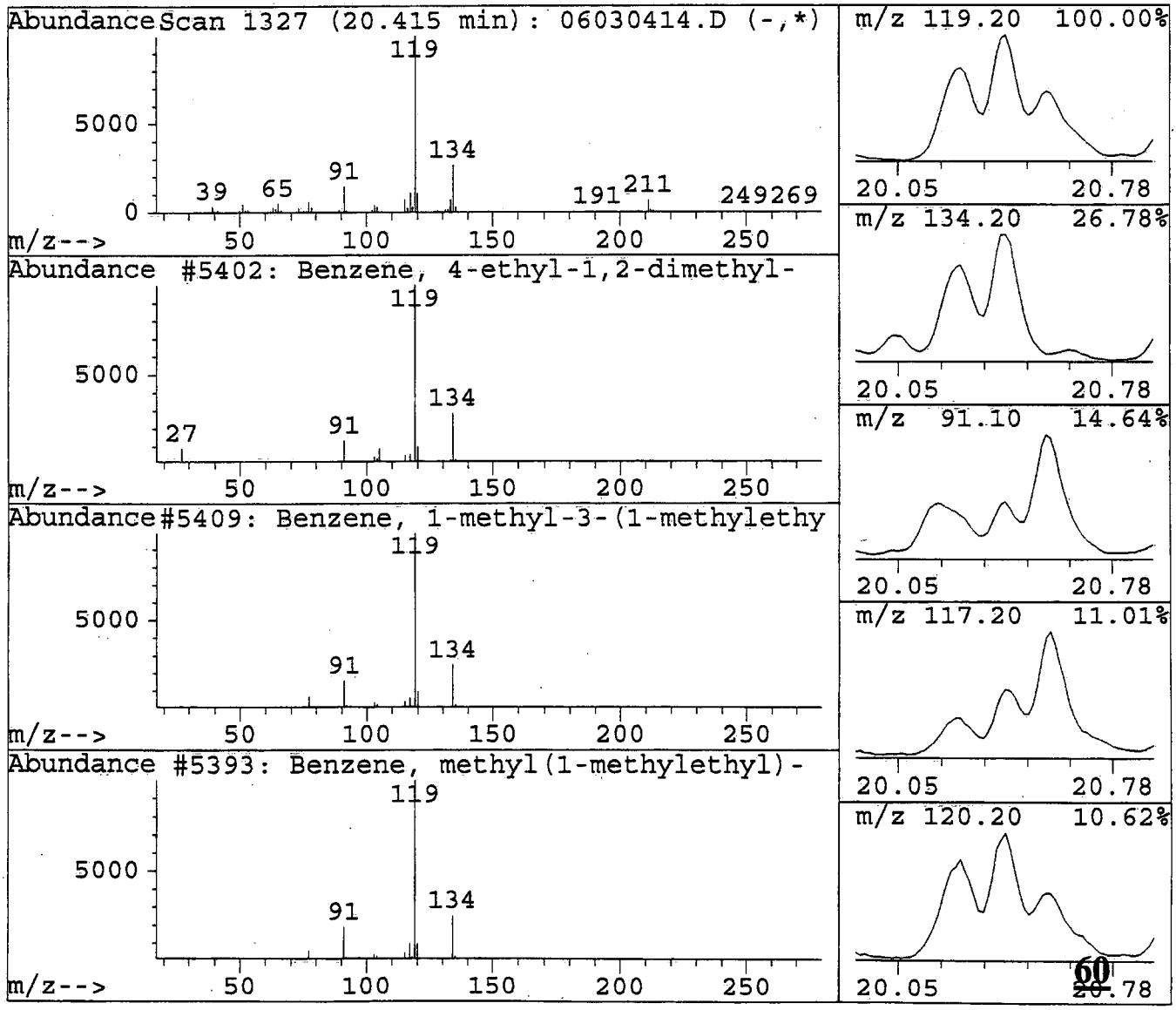
Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.42 | 26.63 ug/L | 17583198 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 4-ethyl-1,2-dimethyl- | 5402 | 000934-80-5 | 90 |
| 2 | Benzene, 1-methyl-3-(1-methylethyl) | 5409 | 000535-77-3 | 90 |
| 3 | Benzene, methyl(1-methylethyl)- | 5393 | 025155-15-1 | 90 |
| 4 | Benzene, 1-methyl-2-(1-methylethyl) | 5411 | 000527-84-4 | 90 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 5396 | 000933-98-2 | 83 |



# Library Search Compound Report

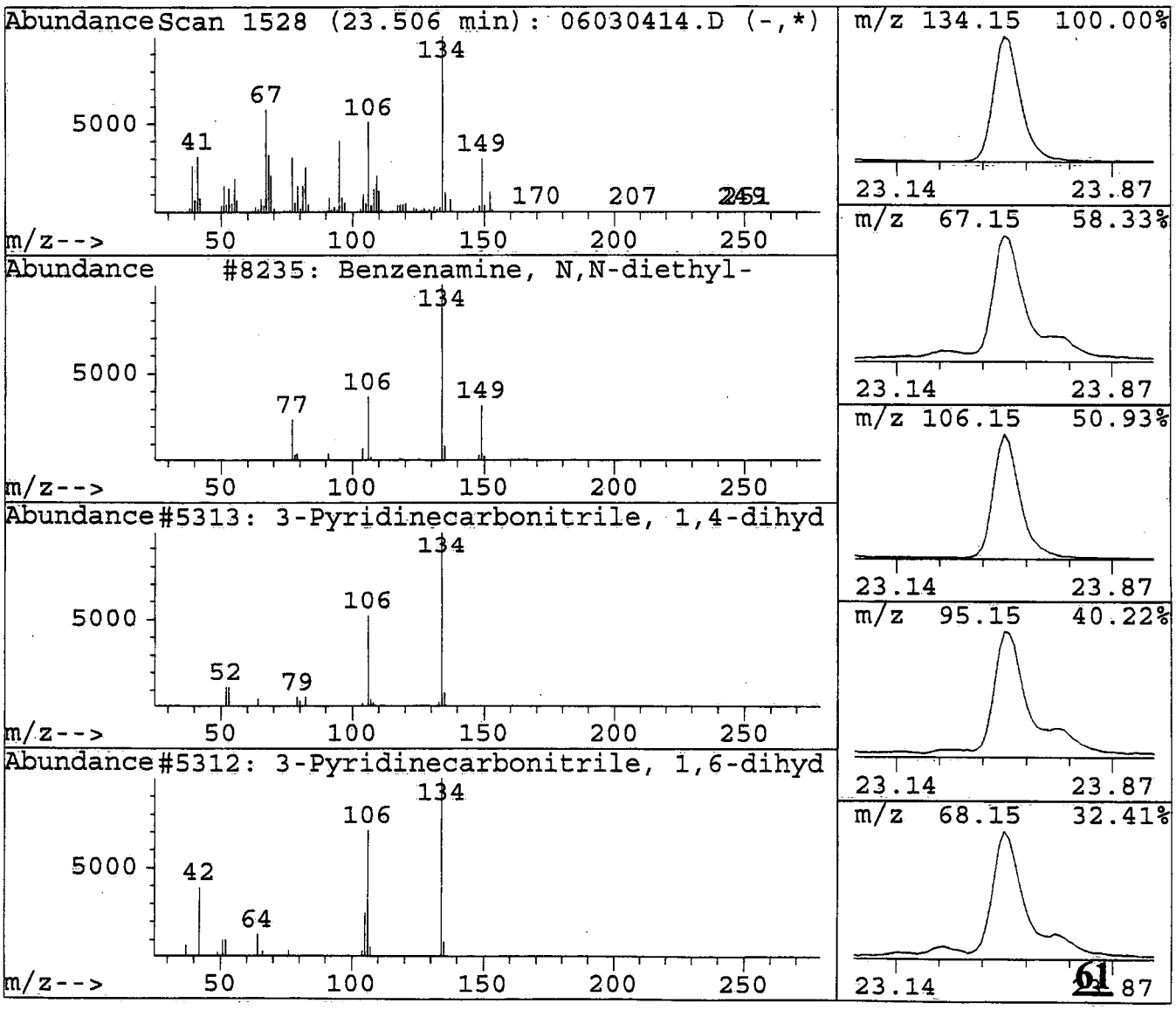
Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.51 | 41.28 ug/L | 27261220 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzenamine, N,N-diethyl- | 8235 | 000091-66-7 | 50 |
| 2 | 3-Pyridinecarbonitrile, 1,4-dihydro | 5313 | 000767-98-6 | 25 |
| 3 | 3-Pyridinecarbonitrile, 1,6-dihydro | 5312 | 000768-45-6 | 25 |
| 4 | Benzonitrile, 4-hydroxy-3-methoxy- | 8184 | 004421-08-3 | 10 |
| 5 | 3,3'-Bi-1H-pyrazole | 5283 | 002384-02-3 | 14 |



# Library Search Compound Report

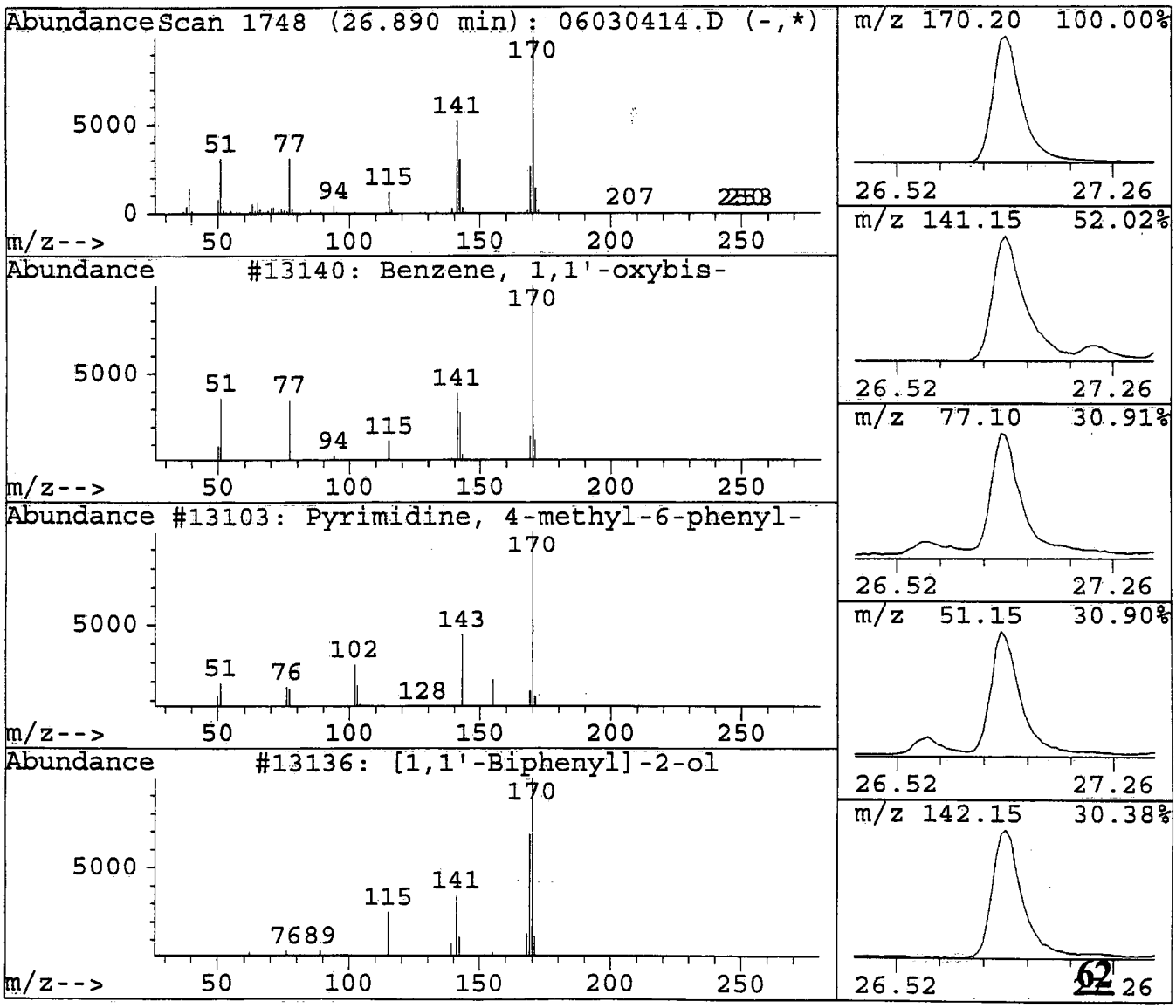
Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 26.89 | 15.41 ug/L | 10174979 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1,1'-oxybis- | 13140 | 000101-84-8 | 87 |
| 2 | Pyrimidine, 4-methyl-6-phenyl- | 13103 | 017759-27-2 | 7 |
| 3 | [1,1'-Biphenyl]-2-ol | 13136 | 000090-43-7 | 28 |
| 4 | 1,1'-Biphenyl, 3-ethoxy- | 19129 | 054852-73-2 | 23 |
| 5 | Pyrimidine, 4-methyl-2-phenyl- | 13102 | 034771-48-7 | 9 |



1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
242358.02

Lab Name: ECOTEST LABS Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) Soil Lab Sample ID: 242358.02

Sample wt/vol: 5.0 (g/mL) g Lab File ID: 06030415.D

Level: (low/med) Low Date Received: 6/2/04

% Solid: 71 Date Analyzed: 6/3/04

GC Column: MXT-624 ID: 0.53 (mm) Dilution Factor: 1000

Soil Extract Volume: 5.0 (mL) Soil Aliquot Volume: 5 (uL)

Number TICs found: 11 Concentration Units: (ug/L or ug/Kg) ug/Kg

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. 000815-24-7 | 3-Pentanone, 2,2,4,4-tetrameth | 18.05 | 45000 | J |
| 2. 000138-86-3 | Limonene | 18.85 | 68000 | J |
| 3. 000135-01-3 | Benzene, 1,2-diethyl- | 19.57 | 16000 | J |
| 4. 021078-65-9 | 1-Decanol, 2-ethyl- | 19.66 | 32000 | J |
| 5. 000934-80-5 | Benzene, 4-ethyl-1,2-dimethyl- | 20.40 | 22000 | J |
| 6. 000527-53-7 | Benzene, 1,2,3,5-tetramethyl- | 21.23 | 25000 | J |
| 7. | Unknown hydrocarbon | 22.00 | 16000 | J |
| 8. 000091-66-7 | Benzenamine, N,N-diethyl- | 23.51 | 67000 | J |
| 9. 000634-90-2 | Benzene, 1,2,3,5-tetrachloro- | 25.59 | 13000 | J |
| 10. 000101-84-8 | Benzene, 1,1'-oxybis- | 26.88 | 19000 | J |
| 11. | Unknown hydrocarbon | 28.37 | 11000 | J |
| 12. | | | | |
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# Library Search Compound Report

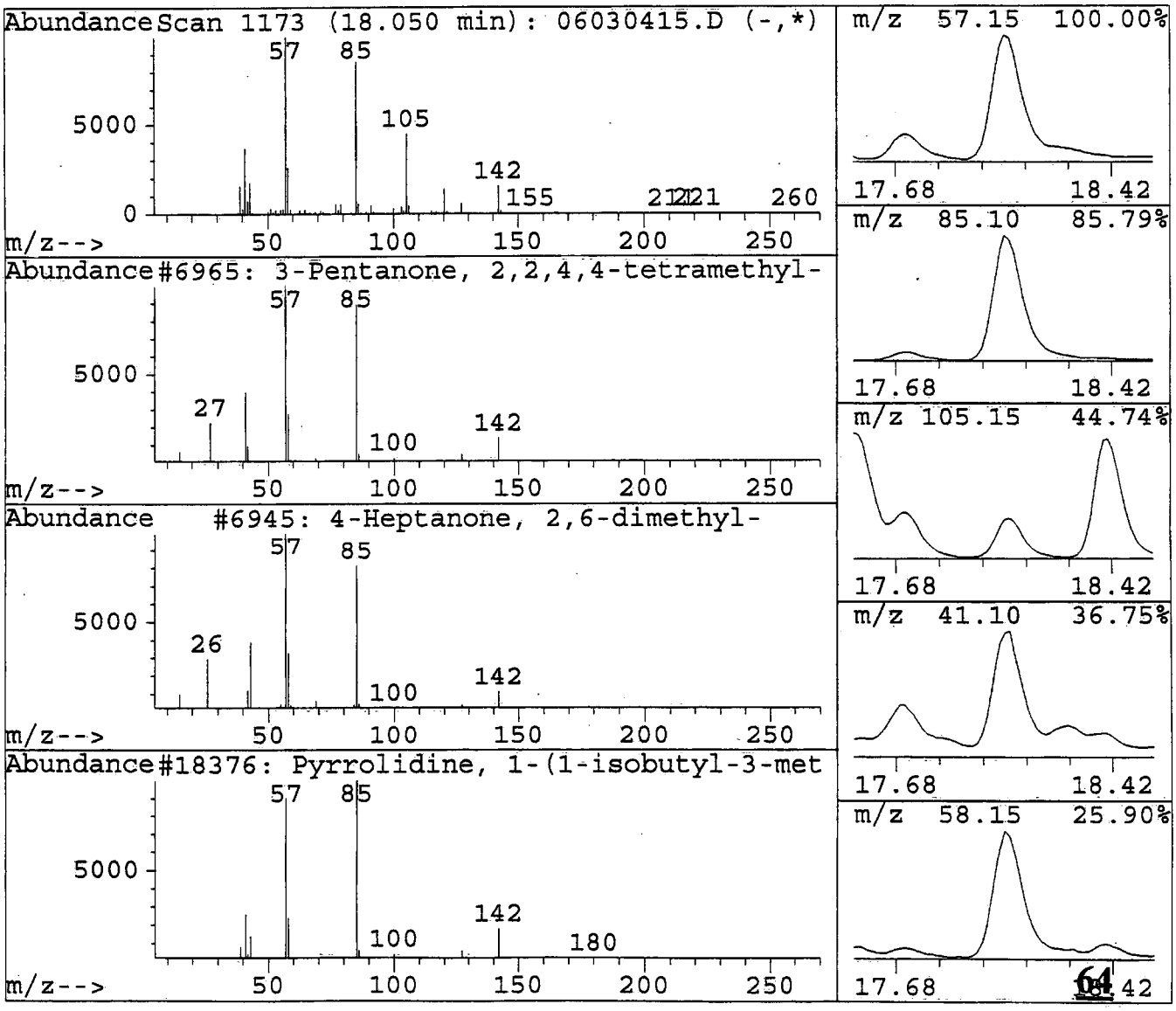
Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.05 | 44.95 ug/L | 30236003 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | 3-Pentanone, 2,2,4,4-tetramethyl- | 6965 | 000815-24-7 | 81 |
| 2 | 4-Heptanone, 2,6-dimethyl- | 6945 | 000108-83-8 | 64 |
| 3 | Pyrrolidine, 1-(1-isobutyl-3-methyl | 18376 | 003494-04-0 | 64 |
| 4 | 4-Octanone, 2-methyl- | 6941 | 007492-38-8 | 45 |
| 5 | Pentanethioic acid, S-propyl ester | 10624 | 002432-76-0 | 28 |



# Library Search Compound Report

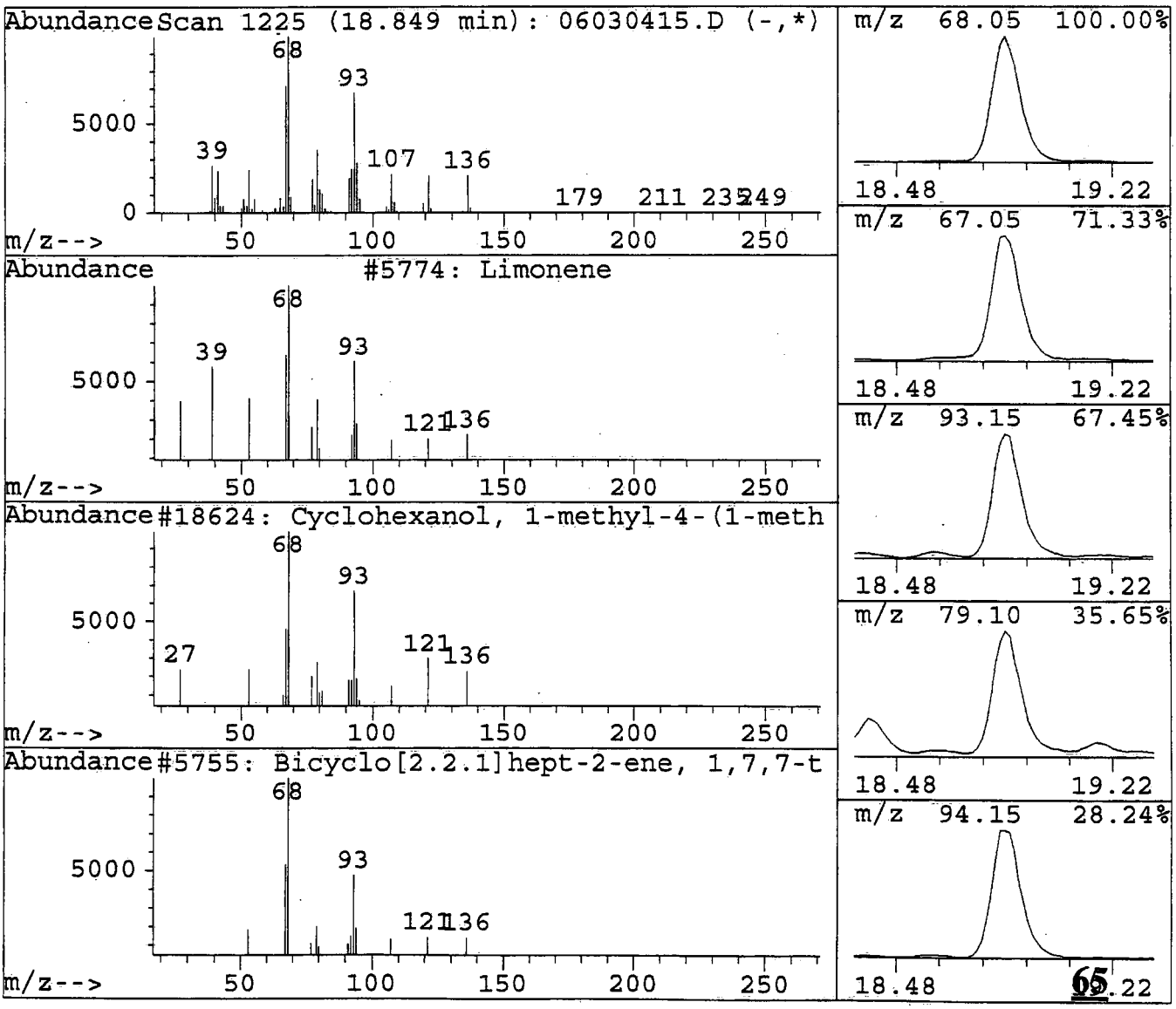
Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.85 | 67.88 ug/L | 45655216 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Limonene | 5774 | 000138-86-3 | 72 |
| 2 | Cyclohexanol, 1-methyl-4-(1-methyle | 18624 | 010198-23-9 | 86 |
| 3 | Bicyclo[2.2.1]hept-2-ene, 1,7,7-tri | 5755 | 000464-17-5 | 93 |
| 4 | Cyclohexene, 1-methyl-4-(1-methylet | 5760 | 007705-14-8 | 90 |
| 5 | D-Limonene | 5790 | 005989-27-5 | 96 |



# Library Search Compound Report

Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

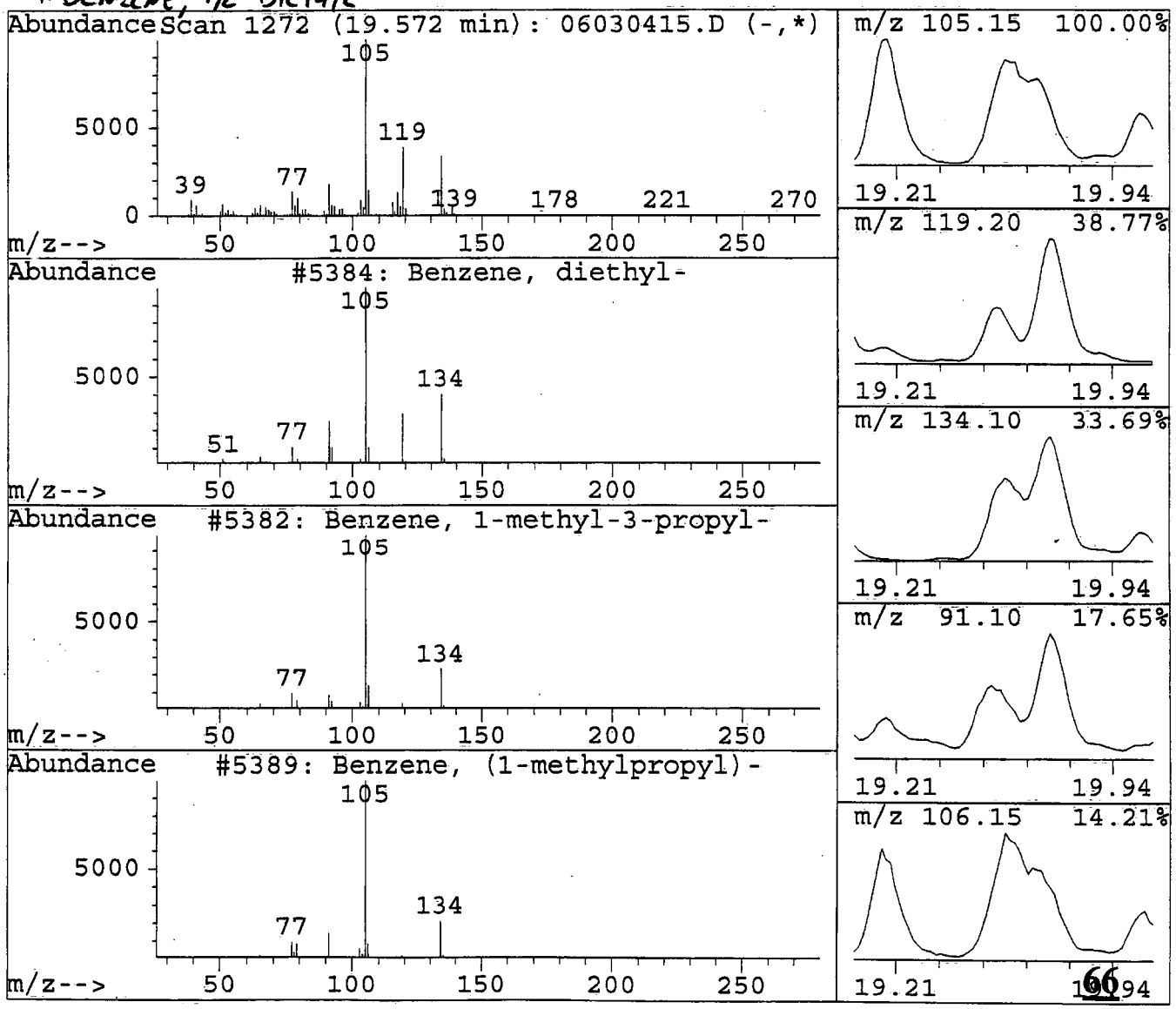
Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.57 | 16.14 ug/L | 10856870 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, diethyl- | 5384 | 025340-17-4 | 52 |
| 2 | Benzene, 1-methyl-3-propyl- | 5382 | 001074-43-7 | 50 |
| 3 | Benzene, (1-methylpropyl)- | 5389 | 000135-98-8 | 45 |
| 4 | Benzene, 1-methyl-2-propyl- | 5413 | 001074-17-5 | 38 |
| 5 | Benzene, 1-methyl-4-propyl- | 5401 | 001074-55-1 | 25 |

*BENZENE, 1,2-DIETHYL



Benzene, 1,2-diethyl-

| | | |
|---|---|---|
| Match Quality | : | 52 |
| Entry Number | : | 5398 |
| CAS Number | : | 000135-01-3 |
| Molecular Weight | : | 134.11 |
| Molecular Formula | : | C10H14 |
| Retention Index | : | 0 |
| Company ID | : | NIST 1/90 |
| Melting Point | : | |
| Boiling Point | : | |
| Misc Information | : | |

# Library Search Compound Report

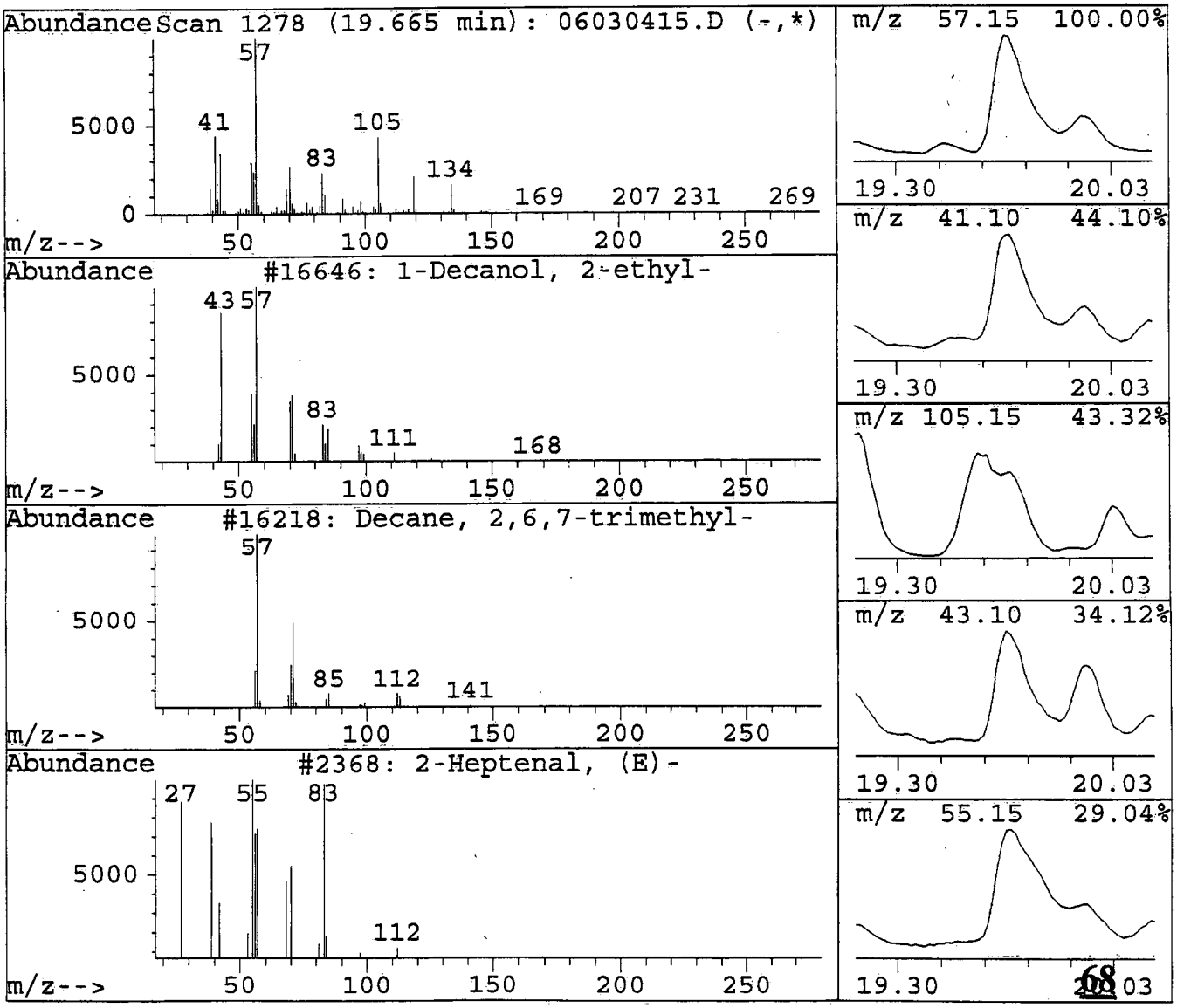
Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.66 | 31.64 ug/L | 21279624 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | 1-Decanol, 2-ethyl- | 16646 | 021078-65-9 | 50 |
| 2 | Decane, 2,6,7-trimethyl- | 16218 | 062108-25-2 | 38 |
| 3 | 2-Heptenal, (E)- | 2368 | 018829-55-5 | 22 |
| 4 | cis-1-Butyl-2-methylcyclopropane | 2403 | 038851-69-3 | 41 |
| 5 | trans-1-Butyl-2-methylcyclopropane | 2407 | 038851-70-6 | 41 |



# Library Search Compound Report

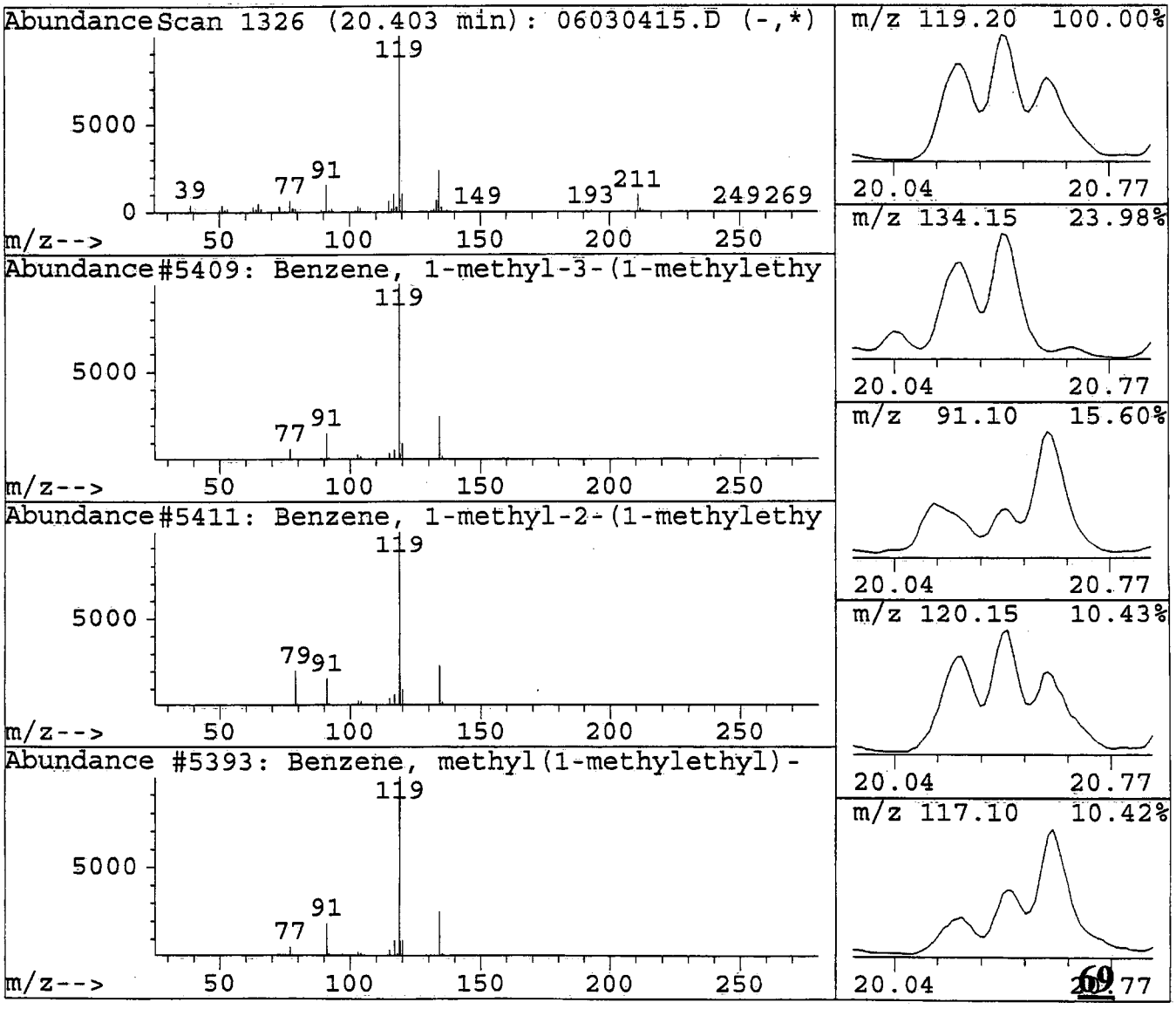
Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.40 | 22.29 ug/L | 14990685 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methylethyl) | 5409 | 000535-77-3 | 87 |
| 2 | Benzene, 1-methyl-2-(1-methylethyl) | 5411 | 000527-84-4 | 87 |
| 3 | Benzene, methyl(1-methylethyl)- | 5393 | 025155-15-1 | 87 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 5402 | 000934-80-5 | 80 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 5405 | 000874-41-9 | 72 |



# Library Search Compound Report

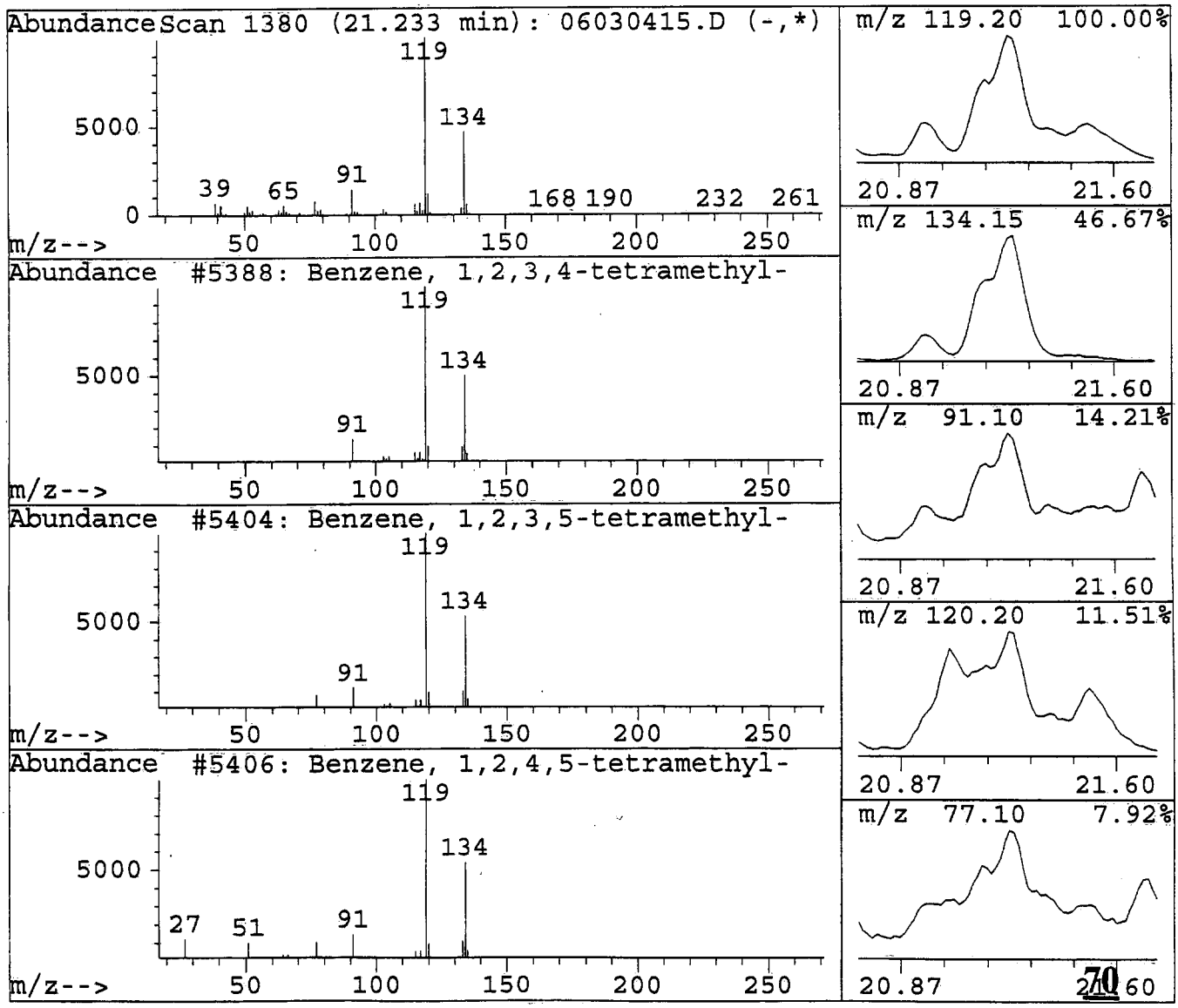
Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.23 | 24.59 ug/L | 16539737 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 5388 | 000488-23-3 | 91 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 5404 | 000527-53-7 | 94 |
| 3 | Benzene, 1,2,4,5-tetramethyl- | 5406 | 000095-93-2 | 91 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 5395 | 000934-74-7 | 91 |
| 5 | Benzene, 2-ethyl-1,4-dimethyl- | 5403 | 001758-88-9 | 91 |



# Library Search Compound Report

Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

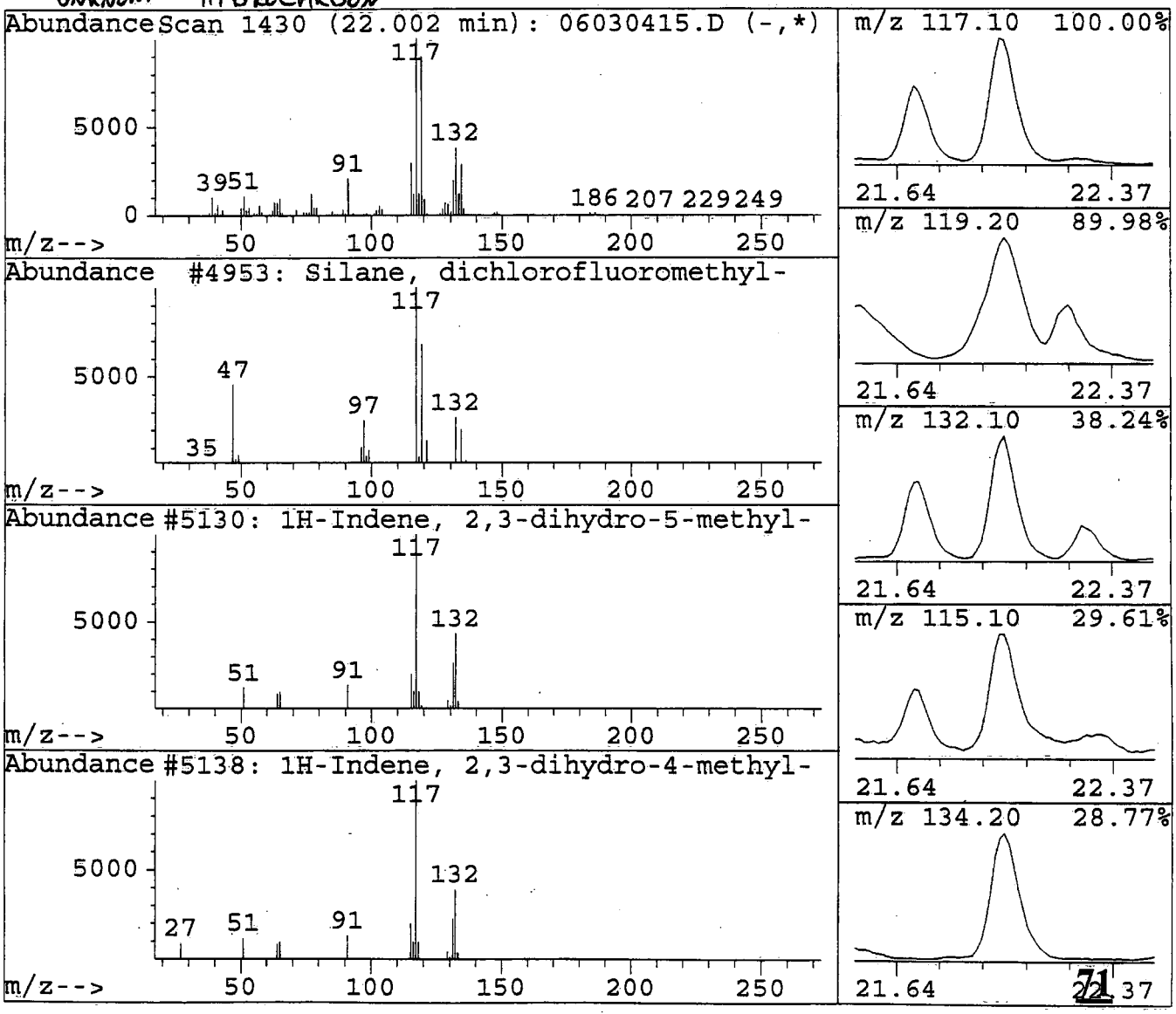
Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.00 | 15.59 ug/L | 10482449 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Silane, dichlorofluoromethyl- | 4953 | 000420-58-6 | 64 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 5130 | 000874-35-1 | 55 |
| 3 | 1H-Indene, 2,3-dihydro-4-methyl- | 5138 | 000824-22-6 | 55 |
| 4 | Benzene, (1-methyl-1-propenyl)-, (Z | 5149 | 000767-99-7 | 30 |
| 5 | 1H-Indene, 2,3-dihydro-1-methyl- | 5127 | 000767-58-8 | 49 |

*UNKNOWN HYDROCARBON



# Library Search Compound Report

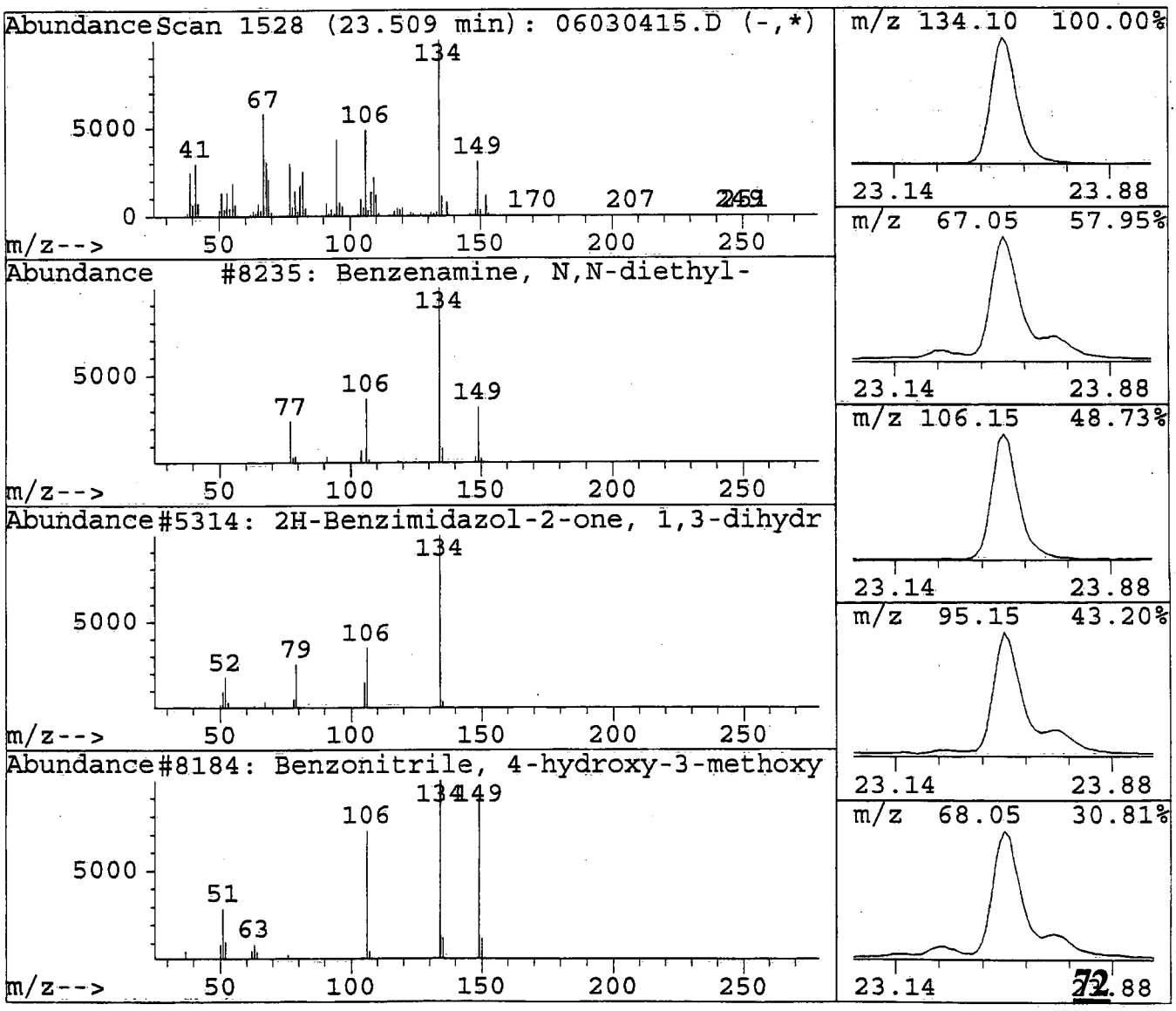
Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.51 | 66.66 ug/L | 44832637 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzenamine, N,N-diethyl- | 8235 | 000091-66-7 | 86 |
| 2 | 2H-Benzimidazol-2-one, 1,3-dihydro- | 5314 | 000615-16-7 | 35 |
| 3 | Benzonitrile, 4-hydroxy-3-methoxy- | 8184 | 004421-08-3 | 11 |
| 4 | 3,3'-Bi-1H-pyrazole | 5283 | 002384-02-3 | 18 |
| 5 | 1H-Purine, 6-methyl- | 5278 | 002004-03-7 | 22 |



# Library Search Compound Report

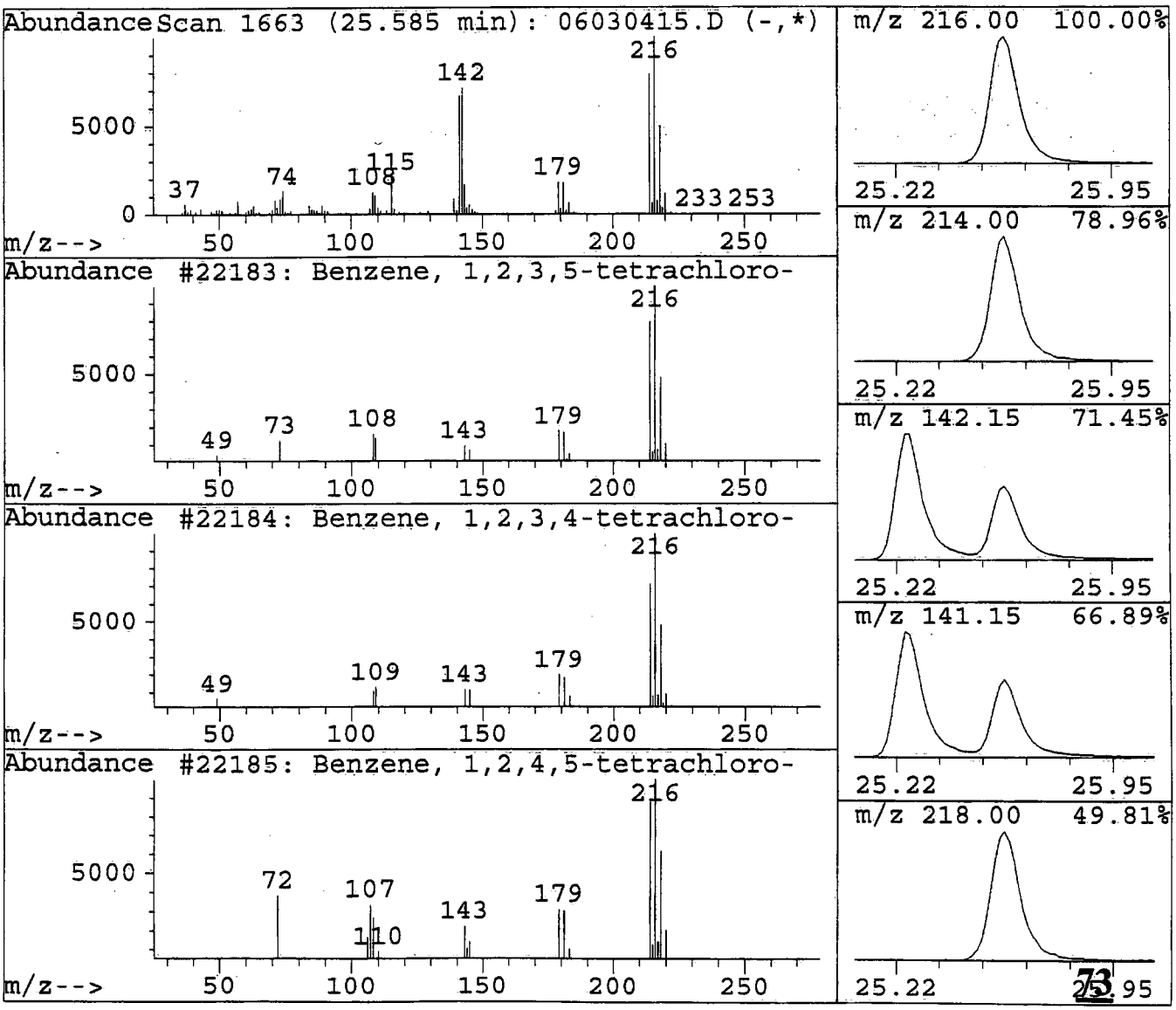
Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.59 | 13.19 ug/L | 8868792 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1,2,3,5-tetrachloro- | 22183 | 000634-90-2 | 95 |
| 2 | Benzene, 1,2,3,4-tetrachloro- | 22184 | 000634-66-2 | 86 |
| 3 | Benzene, 1,2,4,5-tetrachloro- | 22185 | 000095-94-3 | 10 |
| 4 | Benzene, 2,4-dichloro-1-(trifluorom | 22192 | 000320-60-5 | 25 |
| 5 | 2,2-Dichloro-1-oxa-2-sila-1,2-dihyd | 22536 | 064749-19-5 | 12 |



# Library Search Compound Report

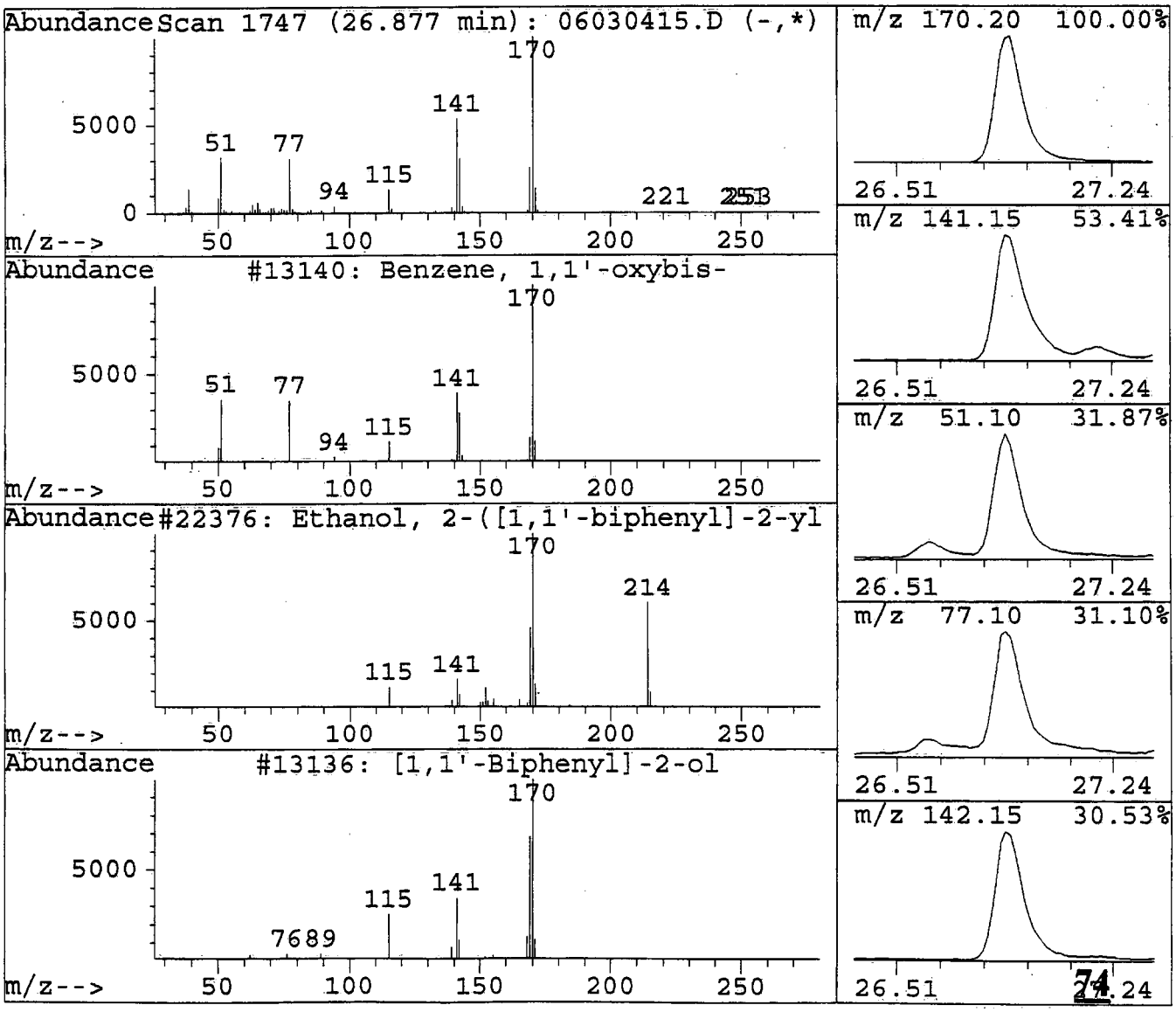
Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 26.88 | 19.32 ug/L | 12993270 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1,1'-oxybis- | 13140 | 000101-84-8 | 87 |
| 2 | Ethanol, 2-([1,1'-biphenyl]-2-yloxy | 22376 | 007501-02-2 | 16 |
| 3 | [1,1'-Biphenyl]-2-ol | 13136 | 000090-43-7 | 38 |
| 4 | 1,1'-Biphenyl, 3-ethoxy- | 19129 | 054852-73-2 | 23 |
| 5 | Pyrimidine, 4-methyl-2-phenyl- | 13102 | 034771-48-7 | 9 |



# Library Search Compound Report

Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :

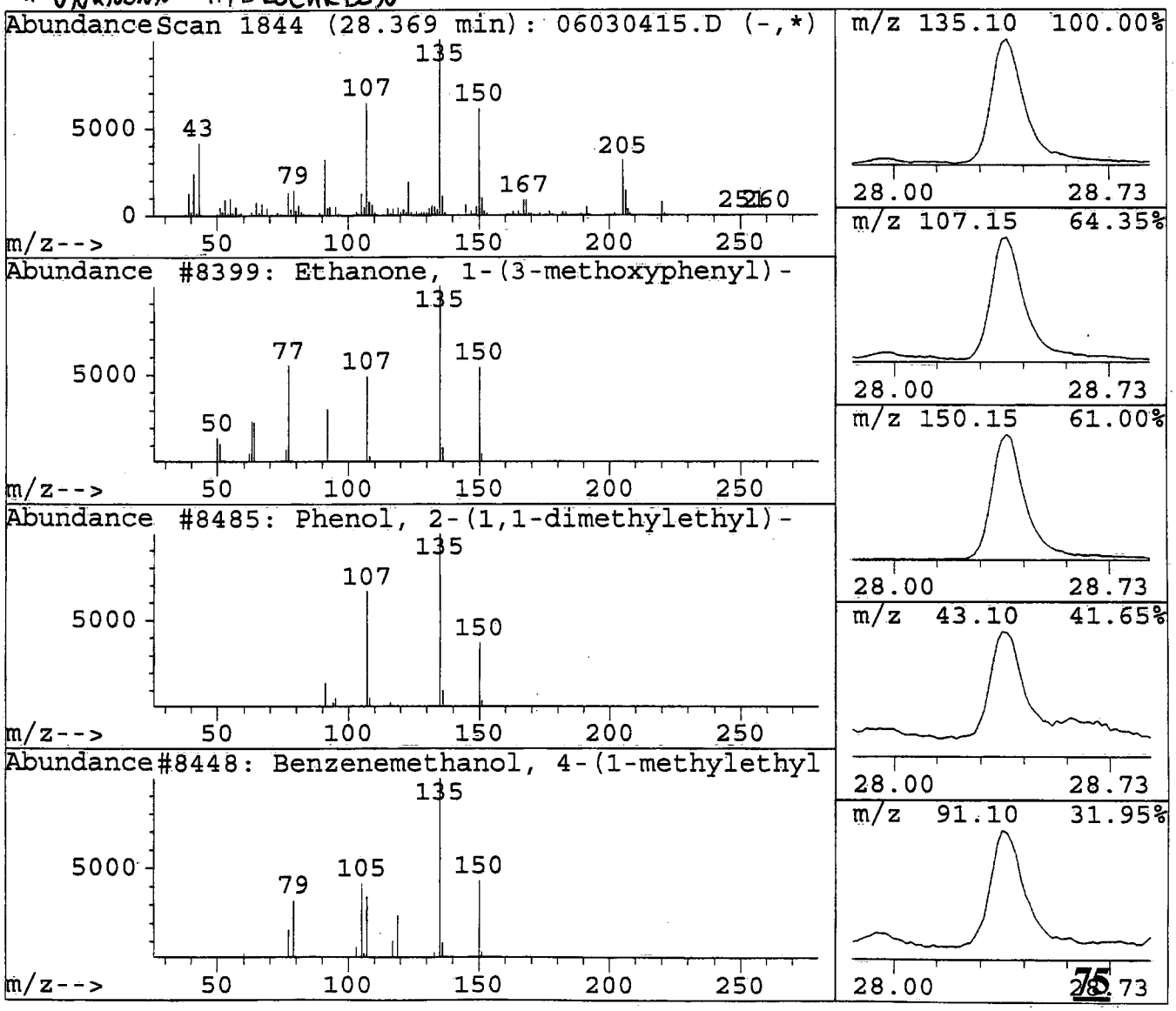
Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 28.37 | 10.70 ug/L | 7198264 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Ethanone, 1-(3-methoxyphenyl)- | 8399 | 000586-37-8 | 59 |
| 2 | Phenol, 2-(1,1-dimethylethyl)- | 8485 | 000088-18-6 | 64 |
| 3 | Benzenemethanol, 4-(1-methylethyl)- | 8448 | 000536-60-7 | 49 |
| 4 | 3-tert-Butylphenol | 8478 | 027178-34-3 | 22 |
| 5 | Phenol, 2,3,5,6-tetramethyl- | 8526 | 000527-35-5 | 47 |

* UNKNOWN HYDROCARBON



1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
242358.03

Lab Name: ECOTEST LABS Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) Soil Lab Sample ID: 242358.03

Sample wt/vol: 5.0 (g/mL) g Lab File ID: 06030416.D

Level: (low/med) Low Date Received: 6/2/04

% Solid: 51 Date Analyzed: 6/3/04

GC Column: MXT-624 ID: 0.53 (mm) Dilution Factor: 1000

Soil Extract Volume: 5.0 (mL) Soil Aliquot Volume: 5 (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) ug/Kg

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. 000611-14-3 | Benzene, 1-ethyl-2-methyl- | 18.06 | 16000 | J |
| 2. | Unknown hydrocarbon | 22.00 | 13000 | J |
| 3. | | | | |
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# Library Search Compound Report

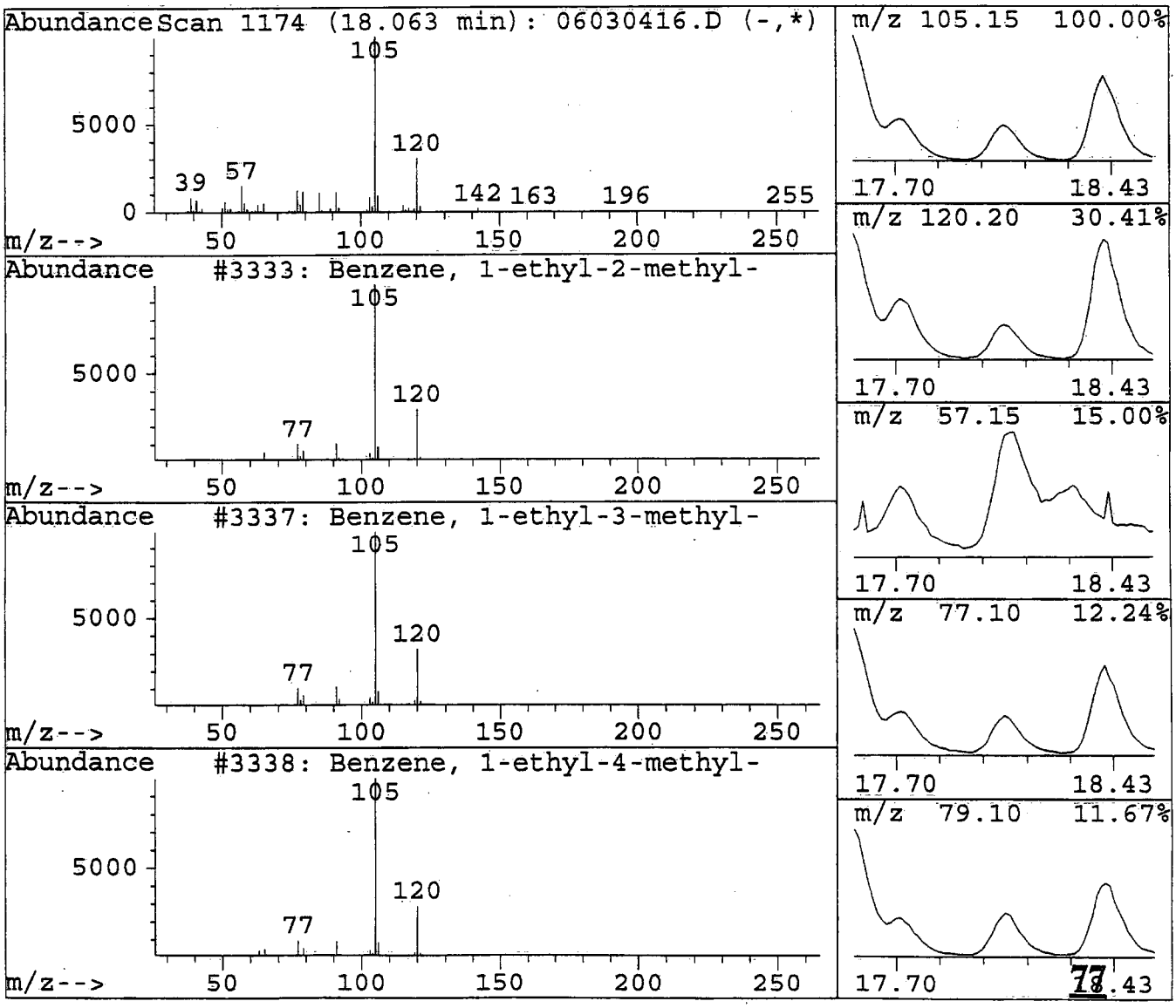
Data File : C:\HPCHEM\2\DATA\060304\06030416.D
Acq On : 3 Jun 104 7:38 pm
Sample : 2358.03 5ul
Misc :

Vial: 16
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.06 | 16.25 ug/L | 7901243 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 3333 | 000611-14-3 | 93 |
| 2 | Benzene, 1-ethyl-3-methyl- | 3337 | 000620-14-4 | 81 |
| 3 | Benzene, 1-ethyl-4-methyl- | 3338 | 000622-96-8 | 76 |
| 4 | Benzene, (1-methylethyl)- | 3331 | 000098-82-8 | 68 |
| 5 | Benzene, 1,2,3-trimethyl- | 3340 | 000526-73-8 | 62 |



# Library Search Compound Report

Data File : C:\HPCHEM\2\DATA\060304\06030416.D
Acq On : 3 Jun 104 7:38 pm
Sample : 2358.03 5ul
Misc :

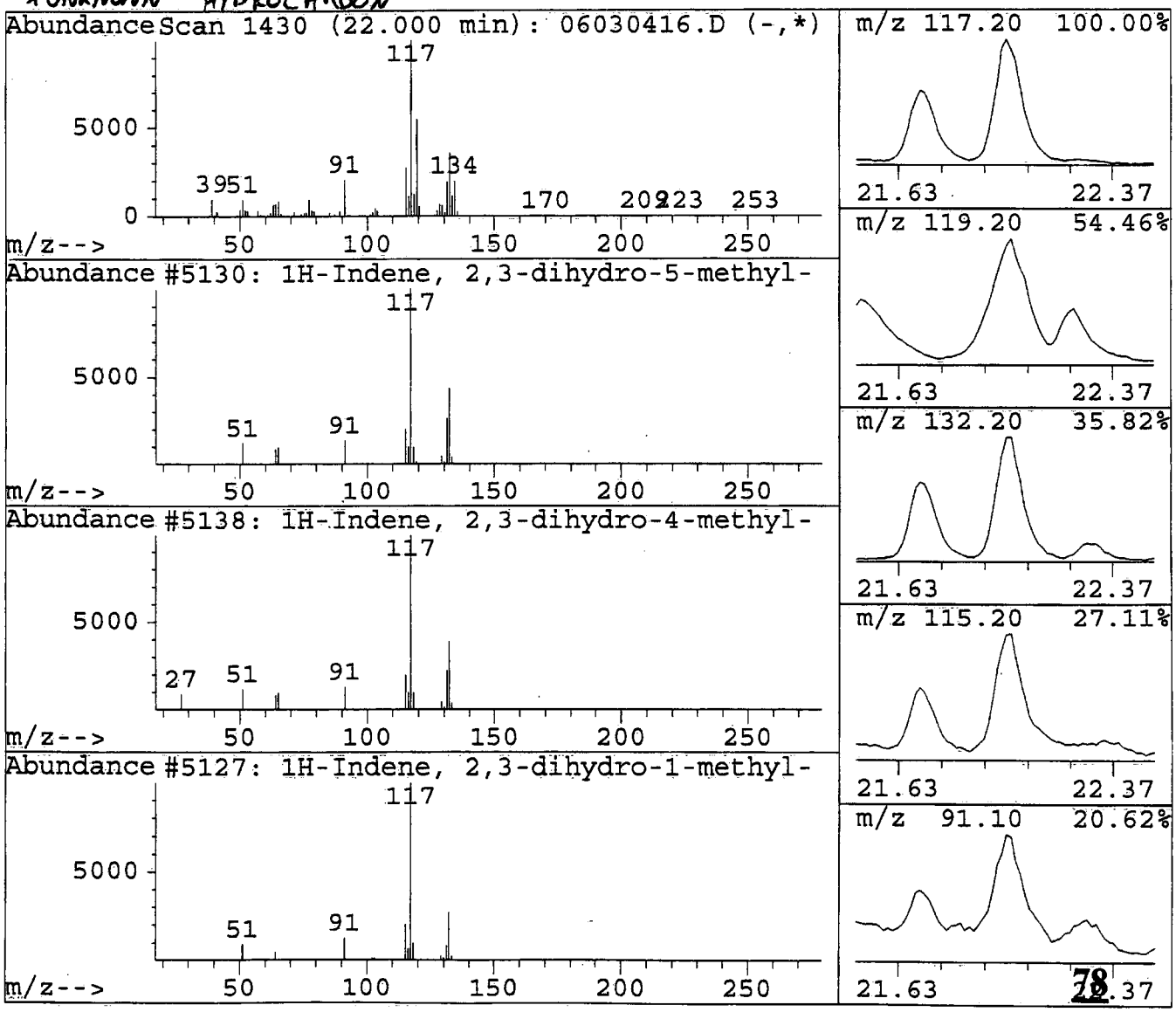
Vial: 16
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS061704.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Library : C:\DATABASE\NBS54K.L

| R.T. | Conc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.00 | 13.26 ug/L | 6443815 | 1,4-dichlorobenzene-d4 | 19.06 |

| Hit# of 20 | Tentative ID | Ref# | CAS# | Qual |
|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-5-methyl- | 5130 | 000874-35-1 | 64 |
| 2 | 1H-Indene, 2,3-dihydro-4-methyl- | 5138 | 000824-22-6 | 64 |
| 3 | 1H-Indene, 2,3-dihydro-1-methyl- | 5127 | 000767-58-8 | 64 |
| 4 | 2,3-Dihydro-1-methylindene | 5146 | 027133-93-3 | 60 |
| 5 | Benzene, (1-methyl-1-propenyl)-, (Z | 5149 | 000767-99-7 | 58 |

*UNKNOWN HYDROCARBON



# METHODOLOGY SUMMARY FOR ALL METHODS

# METHODOLOGY SUMMARY FOR ALL METHODS

Semivolatile OrganicCompounds by EPA 8270
Soil samples were extracted by Accelerated Solvent Extraction (EPA 3545), waters by Separatory Funnel Liquid-Liquid Extraction (EPA Method 3510C). Samples are injected in GC/MS with narrow-bore fused-silica capillary column. Mass spectra and retention time are utilized to identify compounds detected. Quanititation based on major ion relative to internal standard using five-point curve verified with continuing calibration standards.

Volatile OrganicCompounds by EPA 8260
Soil samples were extracted Closed System Purge & Trap (EPA 5035), waters by (EPA Method 5030B). Samples are injected in GC/MS with narrow-bore fused-silica capillary column. Mass spectra and retention time are utilized to identify compounds detected. Quanititation based on major ion relative to internal standard using five-point curve verified with continuing calibration standards..

Pesticides & PCBs by EPA 8081/8082
Soil samples were extracted using ASE (EPA Method 3545), waters extracted by Liquid/Liquid Separatory Funnel (EPA Method 3510). Florisil Cleanup and Mercury cleanup methods are used if required. Sample extracts are injected in to capillary column GC/ECD insrument. Sample are quantified vs the seven Aroclors recognized by EPA in the method. Results confirmed on second column.

Metals (total) by EPA 6010A
Soils are digested using acid digestion with heated block, method EPA 3050B; waters by acid digestion method EPA 3010A also using a heated block. Samples are then analyzed by ICP method EPA 6010B except Selenium which is analyzed by Graphite Furnace Method 7740.

Mercury by EPA 7470A
Both soil and water method utilize heated block digestion with carefully controlled temperature with acid and permanganate. Digestates are analyzed by Cold Vapor AA method using Perkin Elmer FIMS 100 dedicated mercury analyzer.

Phenols by EPA 420.1
Samples are distilled manually in all glass stills. Distillate is analyzed colorimetrically by 4-aap method with a chloroform concentration step.

Cyanide, Total by EPA 335.1
Samples are distilled manually with sulfuric acid and catalyst into sodium hydroxide solution absorber tube. This solution is then analyized by colorimetry on automated Technicon analyzer.

TCLP Extraction by EPA 1311
Samples with no free liquid are mixed with 20 parts TCLP Dilution water (by weight). Mixture is placed on TCLP Mixer for 18 hours. For volatiles analysis, zero headspace extraction container is used. After 18 hours, extraction fluid is filtered and placed in appropriate containers with preservatives if required. Mixed phase samples require special procedures to separate phases and recombine liquid phase with solid phase extract.

Flash Point by EPA 1010
Pensky-Martens Closed Cup Apparatus is used. Sample is placed in closed cup. Small flame is periodically lowered as small port is opened to detect flash as cup is stirred and heated. Flash point is temperature at which flash is observed.

%SOLIDS
Approx. 5 gram, representative sample weighed and is dried overnight at 103-105 °C. Sample is cooled in dessicator and weighed. % Solids is calculated.

SVOCs BY EPA METHOD 8270 - QC DELIVERABLES INCLUDING: CONFORMANCE/NONCONFORMANCE SUMMARIES, LABORATORY CHRONICAL, ANALYTICAL SUMMARY, MDLs & PQLs, METHOD BLANK SUMMARY, DATE/TIME SUMMARY, SURROGATE COMPOUND RESULTS SUMMARY, MS/MSD RECOVERY RESULTS SUMMARY, QUANTIFICATION REPORTS AND CHROMATOGRAMS FOR ECOTEST SAMPLE Nos. 242358.03

# Conformance/Nonconformance Summary
## 8270

## For sample 242358.03

QC criteria were met for the following unless stated otherwise:
* Method blank
* MDL study
* Surrogate recoveries
* Matrix Spike & Matrix Spike Duplicate RPD
* Reference sample
* Holding Time (USEPA SW846)
* Initial instrument calibration & continuing calibration
* GCMS Tune criteria
* Internal Standard Recovery

For sample 242358.03, compounds were flagged
as estimated values due to low recovery of internal standard (<50%).

## Lab Chronicle

| intstrument ran on | date rec'd | date col'd | Lab number | Sample | Date of Extraction | Holding Time Before Extraction (Days) | Date of Analysis | Holding Time After Extraction 8270 (Days) |
|---|---|---|---|---|---|---|---|---|
| svgcms#2 | 06/02/04 | 06/01/04 | 242358.03 | BBD-WC-B2-Pit/Furn. Pit | 06/04/04 | 3 | 06/04/04 | 0 |

**ANALYTICAL RESULTS SUMMARY**
**BNA - (8270)**

| Lab Number | Sample Weight | Dilution Factor | Run on Instrument | Column |
|---|---|---|---|---|
| 242358.03 | 33g | 300, 3000 | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |

# MDL / PQL
# LIMITS

**Instrument : SVGCMS#2**

| Compound | MDL ug/Kg | PQL ug/Kg |
|---|---|---|
| N-Nitrosodimethylamine | 0.1 | <1 |
| Bis(2-chloroethyl)ether | 0.1 | <1 |
| 1,3 Dichlorobenzene | 0.2 | <1 |
| 1,4 Dichlorobenzene | 0.2 | <1 |
| 1,2 Dichlorobenzene | 0.3 | <1 |
| Bis(2-chloroisopropyl)ether | 0.1 | <1 |
| N-nitroso-di-n-propylamine | 0.3 | <1 |
| Hexachloroethane | 0.2 | <1 |
| Nitrobenzene | 0.2 | <1 |
| Isophorone | 0.3 | <1 |
| Bis(2-chloroethoxy)methane | 0.1 | <1 |
| 1,2,4 Trichlorobenzene | 0.3 | <1 |
| Naphthalene | 0.3 | <1 |
| Hexachlorobutadiene | 0.1 | <1 |
| Hexachlorocyclopentadiene | 6.5 | <10 |
| 2 Chloronaphthalene | 0.2 | <1 |
| Dimethylphthalate | 0.2 | <1 |
| 2,6 Dinitrotoluene | 0.2 | <1 |
| Acenaphthylene | 0.2 | <1 |
| Acenaphthene | 0.2 | <1 |
| 2,4 Dinitrotoluene | 0.2 | <1 |
| Diethylphthalate | 0.3 | <1 |
| 4 Chlorophenylphenyl ether | 0.3 | <1 |
| Fluorene | 0.2 | <1 |
| N-Nitrosodiphenylamine | 0.2 | <1 |
| 4 Bromophenylphenyl ether | 0.2 | <1 |
| Hexachlorobenzene | 0.2 | <1 |
| Phenanthrene | 0.5 | <1 |
| Anthracene | 0.2 | <1 |
| Di-n-butylphthalate | 0.3 | <1 |
| Fluoranthene | 0.4 | <1 |
| Pyrene | 0.4 | <1 |
| Butylbenzylphthalate | 0.2 | <1 |
| Bis(2-ethylhexyl)phthalate | 0.3 | <1 |
| Benzo(a)anthracene | 0.3 | <1 |
| Chrysene | 0.3 | <1 |
| 3,3' Dichlorobenzidine | 1.5 | <10 |
| Di-n-octyl phthalate | 0.2 | <1 |
| Benzo(b)fluoranthene | 0.3 | <1 |
| Benzo(k)fluoranthene | 0.3 | <1 |
| Benzo(a)pyrene | 0.3 | <1 |
| Dibenzo(a,h)anthracene | 0.3 | <1 |
| Indeno(1,2,3-cd)pyrene | 0.2 | <1 |
| Benzo(g,h,i)perylene | 0.3 | <1 |
| 1,2 Diphenylhydrazine | 0.2 | <1 |
| Benzidine | 1.5 | <10 |
| Phenol | 0.1 | <1 |
| 2 Chlorophenol | 0.1 | <1 |
| 2,4 Dimethylphenol | 0.8 | <1 |
| 2 Nitrophenol | 0.1 | <1 |
| 2,4 Dichlorophenol | 0.2 | <1 |
| 4-chloro-3-methylphenol | 0.3 | <1 |
| 2,4,6 Trichlorophenol | 0.1 | <1 |
| 2,4 Dinitrophenol | 1.5 | <10 |
| 4 Nitrophenol | 0.1 | <10 |
| 4,6 Dinitro-2-methylphenol | 3.5 | <10 |
| Pentachlorophenol | 0.2 | <10 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | METHOD BLANK RESULTS SUMMARY | | | | | |
| | | BNA - (8270) | | | | | |
| | | | | | | | |
| | | | | | | | |
| Date Rec'd | Date Extracted | Date of Analysis | Sample Weight | % Solid | Dilution Factor | Run on Instrument | Column |
| — | 06/04/04 | 06/04/04 | 33g | >95 | 30 | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| | | | | | | | |
| Method blank associated with: | | | bna matrix spike | | | | |
| | | | bna matrix spike dup. | | | | |
| | | | bna smp 242358.03 | | | | |

| Date Time Summary | | | | | |
|---|---|---|---|---|---|
| Sample | Date | Time | SampleType | Run on Instrument | GC Column |
| DFTPP | 06/04/04 | 11:47 AM | DFTPP Tune Check | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna std 50 ppb s04-1 | 06/04/04 | 12:14 PM | continuing calibration standard | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna std 1 ppb s04-1 | 06/04/04 | 12:57 PM | detection limit standard | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna std 10 ppb s04-1 | 06/04/04 | 1:39 PM | detection limit standard | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bz std 50 ppb s04-1 | 06/04/04 | 2:21 PM | continuing calibration standard | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bz std 10 ppb s04-1 | 06/04/04 | 3:05 PM | detection limit standard | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna qc std 50 ppb cc04-1 | 06/04/04 | 3:47 PM | quality control standard | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna method blank | 06/04/04 | 4:30 PM | method blank | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna matrix spike cc04-1 | 06/04/04 | 5:13 PM | matrix spike | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna matrix spike dup cc04-1 | 06/04/04 | 5:56 PM | matrix spike duplicate | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| DFTPP | 06/04/04 | 7:58 PM | DFTPP Tune Check | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna std 50 ppb s04-1 | 06/04/04 | 8:25 PM | continuing calibration standard | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bz qc std 50 ppb cc04-1 | 06/04/04 | 9:06 PM | quality control standard | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna smp 358.03*3000 dil | 06/04/04 | 10:27 PM | sample | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |
| bna smp 358.03*300 dil rr | 06/04/04 | 11:48 PM | sample | svgcms#2 | Restek Rtx-5Sil MS, 30m, 0.25mmID, 0.25um df |

| | | | | | | |
|---|---|---|---|---|---|---|
| | **Surrogate Compound Result Summary** | | | | | |
| | | **BNA (8270)** | | | | |
| | Surrogate Spiked @ 100 ppb | | | | | |
| run on | svgcms#2 | | | | | |
| soil | ACID SURR. | | | BASE SURR. | | |
| SAMPLE | 2-Fluorophenol | Phenol-d6 | 2,4,6-Tribromophenol | Nitrobenzene-d5 | 2-Fluorobiphenyl | Terphenyl-d14 |
| 242358.03 | diluted out | diluted out | diluted out | diluted out | diluted out | diluted out |
| LIMITS | 17--120 | 26--128 | 35--129 | 34--118 | 45--126 | 61--182 |

| | MS/MSD RECOVERY RESULT SUMMARY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | BNA (8270), Date: 06/04/04 | | | | | | | | |
| Run on Instrument | svgcms#2 | | | | | | | | |
| Compound | Unspiked | Spike | MS | MS | MSD | MSD | RPD | Recovery | RPD |
| | Conc | Added | Conc | Recov. | Conc | Recov. | | Limits | Limits |
| water | (ug/Kg) | (ug/Kg) | (ug/Kg) | (%) | (ug/Kg) | (%) | (%) | (%) | (%) |
| N-Nitrosodimethylamine | 0 | 50 | 37 | 75 | 30 | 60 | 21.6 | 39--106 | 25 |
| Bis(2-chloroethyl)ether | 0 | 50 | 44 | 87 | 37 | 75 | 15.3 | 30--119 | 33 |
| 1,3 Dichlorobenzene | 0 | 50 | 41 | 83 | 35 | 71 | 15.9 | 32--100 | 33 |
| 1,4 Dichlorobenzene | 0 | 50 | 42 | 85 | 37 | 74 | 14.1 | 32--102 | 33 |
| 1,2 Dichlorobenzene | 0 | 50 | 40 | 81 | 36 | 72 | 11.3 | 36--99 | 31 |
| Bis(2-chloroisopropyl)ether | 0 | 50 | 35 | 70 | 30 | 60 | 14.8 | 35--108 | 30 |
| N-nitroso-di-n-propylamine | 0 | 50 | 47 | 93 | 40 | 79 | 16.3 | 25--123 | 59 |
| Hexachloroethane | 0 | 50 | 40 | 81 | 35 | 69 | 15.5 | 29--102 | 33 |
| Nitrobenzene | 0 | 50 | 45 | 91 | 37 | 74 | 20.4 | 40--106 | 30 |
| Isophorone | 0 | 50 | 53 | 106 | 43 | 87 | 19.7 | 39--126 | 25 |
| Bis(2-chloroethoxy)methane | 0 | 50 | 47 | 94 | 38 | 76 | 20.7 | 52--116 | 25 |
| 1,2,4 Trichlorobenzene | 0 | 50 | 49 | 98 | 41 | 81 | 18.7 | 42--107 | 30 |
| Naphthalene | 0 | 50 | 50 | 100 | 41 | 81 | 21.0 | 49--119 | 24 |
| Hexachlorobutadiene | 0 | 50 | 47 | 95 | 40 | 79 | 17.9 | 35--112 | 34 |
| Hexachlorocyclopentadiene | 0 | 50 | 39 | 77 | 31 | 61 | 22.8 | 4--114 | 40 |
| 2 Chloronaphthalene | 0 | 50 | 51 | 101 | 42 | 84 | 18.3 | 51--114 | 25 |
| Dimethylphthalate | 0 | 50 | 52 | 104 | 43 | 86 | 18.6 | 55--129 | 19 |
| 2,6 Dinitrotoluene | 0 | 50 | 55 | 111 | 49 | 97 | 13.1 | 57--132 | 17 |
| Acenaphthylene | 0 | 50 | 50 | 101 | 42 | 85 | 17.0 | 20--161 | 25 |
| Acenaphthene | 0 | 50 | 52 | 105 | 43 | 86 | 19.7 | 60--131 | 26 |
| 2,4 Dinitrotoluene | 0 | 50 | 59 | 118 | 50 | 99 | 17.3 | 56--134 | 18 |
| Diethylphthalate | 0 | 50 | 51 | 102 | 43 | 86 | 17.2 | 49--135 | 18 |
| 4 Chlorophenylphenyl ether | 0 | 50 | 53 | 105 | 43 | 86 | 19.9 | 51--121 | 22 |
| Fluorene | 0 | 50 | 54 | 108 | 44 | 87 | 21.9 | 54--146 | 26 |
| N-Nitrosodiphenylamine | 0 | 50 | 72 | 144 | 62 | 125 | 14.4 | 43--153 | 16 |
| 4 Bromophenylphenyl ether | 0 | 50 | 55 | 110 | 44 | 88 | 22.1 | 52--129 | 23 |
| Hexachlorobenzene | 0 | 50 | 54 | 108 | 45 | 91 | 17.7 | 51--124 | 19 |
| Phenanthrene | 0 | 50 | 52 | 104 | 44 | 87 | 17.8 | 65--134 | 21 |
| Anthracene | 0 | 50 | 53 | 105 | 45 | 89 | 16.5 | 60--137 | 21 |
| Di-n-butylphthalate | 0 | 50 | 49 | 99 | 41 | 83 | 17.7 | 54--132 | 18 |
| Fluoranthene | 0 | 50 | 57 | 114 | 48 | 96 | 17.9 | 69--134 | 18 |
| Benzidine | 0 | 100 | 49 | 49 | 51 | 51 | 5.6 | 0--107 | 45 |
| Pyrene | 0 | 50 | 46 | 92 | 38 | 75 | 19.8 | 68--147 | 20 |
| Butylbenzylphthalate | 0 | 50 | 46 | 91 | 37 | 75 | 19.8 | 55--143 | 20 |
| Bis(2-ethylhexyl)phthalate | 0 | 50 | 48 | 95 | 38 | 77 | 21.4 | 37--144 | 24 |
| Benzo(a)anthracene | 0 | 50 | 53 | 105 | 44 | 89 | 16.7 | 65--140 | 18 |
| Chrysene | 0 | 50 | 53 | 106 | 45 | 89 | 17.8 | 73--135 | 18 |
| 3,3' Dichlorobenzidine | 0 | 100 | 69 | 69 | 68 | 68 | 1.0 | 31--137 | 25 |
| Di-n-octyl phthalate | 0 | 50 | 44 | 87 | 35 | 70 | 21.9 | 58--144 | 23 |
| Benzo(b)fluoranthene | 0 | 50 | 51 | 102 | 40 | 81 | 23.0 | 70--158 | 24 |
| Benzo(k)fluoranthene | 0 | 50 | 44 | 89 | 39 | 78 | 13.2 | 70--137 | 20 |
| Benzo(a)pyrene | 0 | 50 | 52 | 104 | 43 | 87 | 18.0 | 70--133 | 20 |
| Dibenzo(a,h)anthracene | 0 | 50 | 64 | 129 | 53 | 106 | 19.5 | 66--137 | 20 |
| Indeno(1,2,3-cd)pyrene | 0 | 50 | 61 | 123 | 51 | 103 | 17.8 | 64--139 | 20 |
| Benzo(g,h,i)perylene | 0 | 50 | 63 | 126 | 53 | 105 | 17.8 | 61--130 | 20 |
| 1,2 Diphenylhydrazine | 0 | 50 | 47 | 95 | 38 | 76 | 21.5 | 47--138 | 26 |
| Phenol | 0 | 100 | 75 | 75 | 77 | 77 | 2.5 | 47--131 | 22 |
| 2,4 Dimethylphenol | 0 | 100 | 113 | 113 | 107 | 107 | 5.8 | 54--175 | 20 |
| 2 Nitrophenol | 0 | 100 | 84 | 84 | 82 | 82 | 2.5 | 52--121 | 19 |
| 2,4 Dichlorophenol | 0 | 100 | 94 | 94 | 92 | 92 | 2.3 | 52--144 | 19 |
| 4-chloro-3-methylphenol | 0 | 100 | 95 | 95 | 94 | 94 | 1.3 | 52--154 | 16 |
| 2,4,6 Trichlorophenol | 0 | 100 | 98 | 98 | 100 | 100 | 2.5 | 62--138 | 13 |
| 2,4 Dinitrophenol | 0 | 100 | 126 | 126 | 120 | 120 | 5.2 | 23--[illegible]3 | 12 |
| 4 Nitrophenol | 0 | 100 | 139 | 139 | 127 | 127 | 8.3 | 65--157 | 10 |
| 4,6 Dinitro-2-methylphenol | 0 | 100 | 104 | 104 | 100 | 100 | 4.6 | 50--153 | 13 |
| Pentachlorophenol | 0 | 100 | 117 | 117 | 115 | 115 | 1.7 | 42--134 | 22 |

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040409.D Vial: 9
Acq On : 4 Jun 104 4:30 pm Operator: J.AQUILINA
Sample : bna method blank-soil Inst : SVGCMS2
Misc : Multiplr: 1.00
Quant Time: Jun 7 9:04 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) 1,4-DICHLOROBENZENE-d4 INT | 6.86 | 150 | 527712 | 40.00 PPB | -0.03 |
| 19) NAPHTHALENE-d8 INT. STD. | 8.54 | 136 | 1165312 | 40.00 PPB | -0.02 |
| 35) ACENAPHTHENE-d10 INT. STD. | 10.91 | 162 | 699094 | 40.00 PPB | -0.02 |
| 54) PHENANTHRENE-d10 INT. STD. | 12.94 | 188 | 1312915 | 40.00 PPB | -0.02 |
| 67) CHRYSENE-d12 INT. STD. | 18.43 | 240 | 1187292 | 40.00 PPB | -0.03 |
| 75) PERYLENE-d12 INT. STD. | 23.11 | 264 | 942069 | 40.00 PPB | -0.01 |

| System Monitoring Compounds | | | | | %Recovery |
|---|---|---|---|---|---|
| 4) 2-FLUOROPHENOL SURR. | 5.31 | 112 | 1128397 | 112.46 PPB | # |
| 5) PHENOL-d6 SURR. | 6.44 | 99 | 1408479 | 117.29 PPB | # |
| 20) NITROBENZENE-d5 SURR. | 7.60 | 82 | 1995532 | 113.91 PPB | # |
| 39) 2-FLUOROBIPHENYL SURR. | 9.99 | 172 | 2184640 | 116.54 PPB | |
| 58) 2,4,6 TRIBROMOPHENOL SURR. | 11.98 | 330 | 448697 | 120.64 PPB | # |
| 70) TERPHENYL-d14 SURR. | 15.71 | 244 | 3235649 | 96.16 PPB | |

| Target Compounds | | | | Qvalue |
|---|---|---|---|---|
| 2) N-NITROSODIMETHYLAMINE | 0.00 | 74 | Not Detected | |
| 3) PYRIDINE | 0.00 | 79 | Not Detected | |
| 6) PHENOL | 0.00 | 94 | Not Detected | |
| 7) aniline | 0.00 | 93 | Not Detected | |
| 8) BIS(2-CHLOROETHYL)ETHER | 0.00 | 93 | Not Detected | |
| 9) 2-CHLOROPHENOL | 0.00 | 128 | Not Detected | |
| 10) 1,3 DICHLOROBENZENE | 0.00 | 146 | Not Detected | |
| 11) 1,4 DICHLOROBENZENE | 0.00 | 146 | Not Detected | |
| 12) benzyl alcohol | 0.00 | 79 | Not Detected | |
| 13) 1,2-DICHLOROBENZENE | 0.00 | 146 | Not Detected | |
| 14) 2-METHYLPHENOL | 0.00 | 108 | Not Detected | |
| 15) BIS(2-CHLOROISOPROPYL)ETHE | 0.00 | 45 | Not Detected | |
| 16) 4-METHYLPHENOL | 0.00 | 107 | Not Detected | |
| 17) N-NITROSO-DI-N-PROPYLAMINE | 0.00 | 43 | Not Detected | |
| 18) HEXACHLOROETHANE | 0.00 | 117 | Not Detected | |
| 21) NITROBENZENE | 0.00 | 77 | Not Detected | |
| 22) ISOPHORONE | 0.00 | 82 | Not Detected | |
| 23) 2,4 DIMETHYLPHENOL | 0.00 | 107 | Not Detected | |
| 24) benzoic acid | 0.00 | 105 | Not Detected | |
| 25) 2-NITROPHENOL | 0.00 | 139 | Not Detected | |
| 26) BIS(2-CHLOROETHOXY)METHANE | 0.00 | 93 | Not Detected | |
| 27) 2,4 DICHLOROPHENOL | 0.00 | 162 | Not Detected | |
| 28) 1,2,4 TRICHLOROBENZENE | 0.00 | 180 | Not Detected | |
| 29) NAPHTHALENE | 0.00 | 128 | Not Detected | |
| 30) 4-CHLOROANILINE | 0.00 | 127 | Not Detected | |
| 31) HEXACHLOROBUTADIENE | 0.00 | 225 | Not Detected | |
| 32) 4-CHLORO-3-METHYLPHENOL | 0.00 | 107 | Not Detected | |
| 33) 2-METHYLNAPHTHALENE | 0.00 | 142 | Not Detected | |
| 34) 2-NITROANILINE | 0.00 | 138 | Not Detected | |
| 36) HEXACHLOROCYCLOPENTADIENE | 0.00 | 237 | Not Detected | |
| 37) 2,4,6-TRICHLOROPHENOL | 0.00 | 196 | Not Detected | |
| 38) 2,4,5 TRICHLOROPHENOL | 0.00 | 196 | Not Detected | |
| 40) 2-CHLORONAPHTHALENE | 0.00 | 162 | Not Detected | |
| 41) DIMETHYLPHTHALATE | 0.00 | 163 | Not Detected | |
| 42) 2,6 DINITROTOLUENE | 0.00 | 165 | Not Detected | |
| 43) ACENAPHTHYLENE | 0.00 | 152 | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040409.D  Vial: 9
Acq On : 4 Jun 104 4:30 pm  Operator: J.AQUILINA
Sample : bna method blank-soil  Inst : SVGCMS2
Misc :  Multiplr: 1.00
Quant Time: Jun 7 9:04 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 44) | 3-NITROANILINE | 0.00 | 65 | | Not Detected | |
| 45) | ACENAPHTHENE | 0.00 | 153 | | Not Detected | |
| 46) | 2,4-DINITROPHENOL | 0.00 | 184 | | Not Detected | |
| 47) | 4-NITROPHENOL | 0.00 | 65 | | Not Detected | |
| 48) | DIBENZOFURAN | 0.00 | 168 | | Not Detected | |
| 49) | 2,4 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 50) | DIETHYLPHTHLATE | 0.00 | 149 | | Not Detected | |
| 51) | 4-CHLOROPHENYLPHENYL ETHER | 0.00 | 204 | | Not Detected | |
| 52) | FLUORENE | 0.00 | 166 | | Not Detected | |
| 53) | 4-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 55) | 4,6-DINITRO-2-METHYLPHENOL | 0.00 | 198 | | Not Detected | |
| 56) | N-NITROSODIPHENYLAMINE | 0.00 | 168 | | Not Detected | |
| 57) | 1,2 DIPHENYLHYDRAZINE | 0.00 | 77 | | Not Detected | |
| 59) | 4-BROMOPHENYLPHENYL ETHER | 0.00 | 248 | | Not Detected | |
| 60) | HEXACHLOROBENZENE | 0.00 | 284 | | Not Detected | |
| 61) | PENTACHLOROPHENOL | 0.00 | 266 | | Not Detected | |
| 62) | PHENANTHRENE | 12.98 | 178 | 20963 | 0.60 PPB # | 80 |
| 63) | ANTHRACENE | 0.00 | 178 | | Not Detected | |
| 64) | CARBAZOLE | 0.00 | 167 | | Not Detected | |
| 65) | DI-N-BUTYLPHTHALATE | 0.00 | 149 | | Not Detected | |
| 66) | FLUORANTHENE | 0.00 | 202 | | Not Detected | |
| 68) | BENZIDINE | 0.00 | 184 | | Not Detected | |
| 69) | PYRENE | 0.00 | 202 | | Not Detected | |
| 71) | BUTYLBENZYLPHTHALATE | 0.00 | 149 | | Not Detected | |
| 72) | BIS(2-ETHYLHEXYL)PHTHALATE | 0.00 | 149 | | Not Detected | |
| 73) | BENZO(A)ANTHRACENE | 0.00 | 228 | | Not Detected | |
| 74) | CHRYSENE | 0.00 | 228 | | Not Detected | |
| 76) | 3,3'-DICHLOROBENZIDINE | 0.00 | 252 | | Not Detected | |
| 77) | DI-N-OCTYL PHTHALATE | 0.00 | 149 | | Not Detected | |
| 78) | BENZO(B)FLOURANTHENE | 0.00 | 252 | | Not Detected | |
| 79) | BENZO(K)FLUORANTHENE | 0.00 | 252 | | Not Detected | |
| 80) | BENZO(A)PYRENE | 0.00 | 252 | | Not Detected | |
| 81) | DIBENZO(A,H)ANTHRACENE | 0.00 | 278 | | Not Detected | |
| 82) | INDENO(1,2,3-CD)PYRENE | 0.00 | 276 | | Not Detected | |
| 83) | BENZO(G,H,I)PERYLENE | 0.00 | 276 | | Not Detected | |

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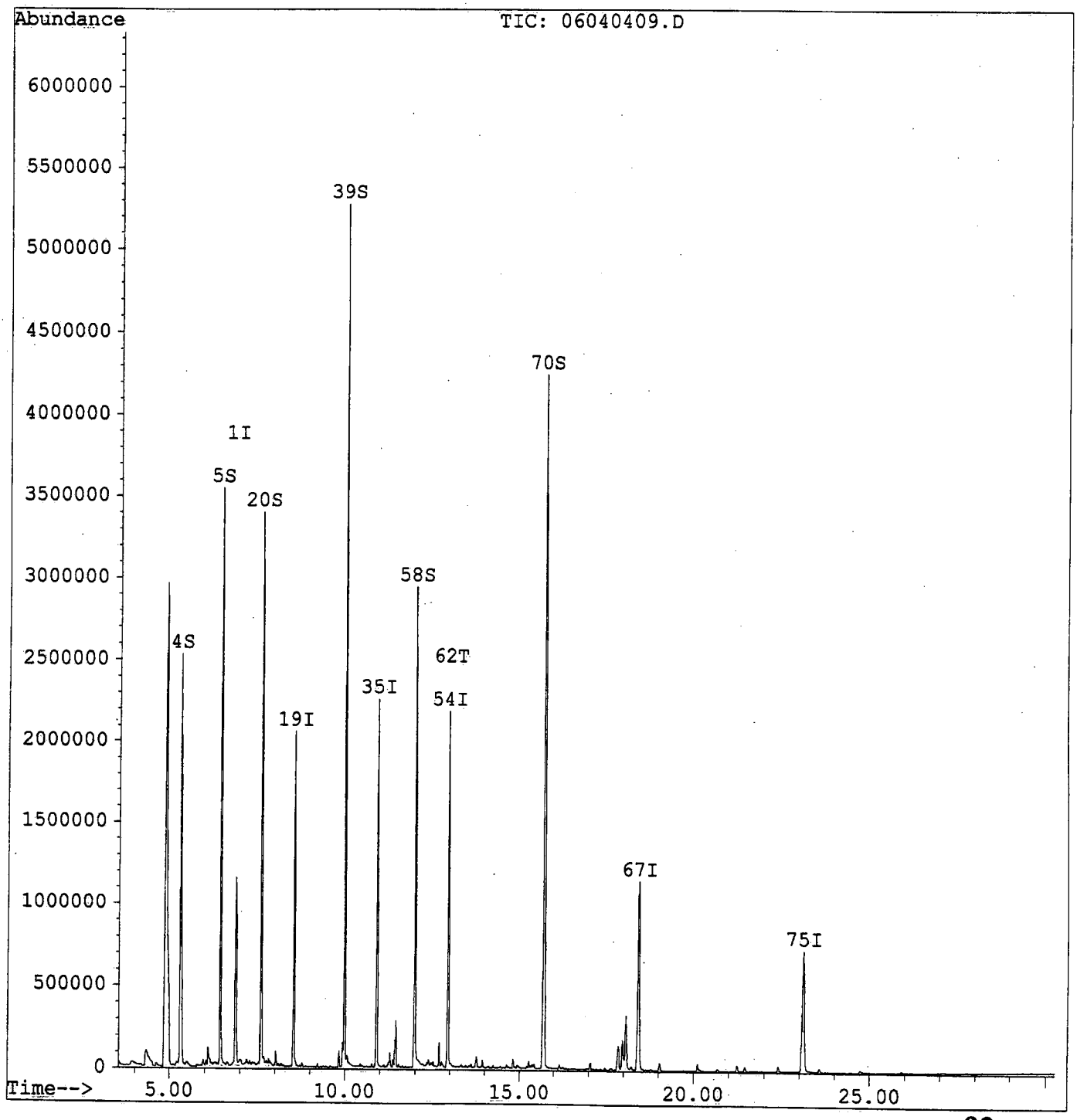
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040409.D  Vial: 9
Acq On : 4 Jun 104 4:30 pm  Operator: J.AQUILINA
Sample : bna method blank-soil  Inst : SVGCMS2
Misc :  Multiplr: 1.00
Quant Time: Jun 7 9:04 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration




92

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040418.D  Vial: 17
Acq On : 4 Jun 104 10:27 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*3k dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00
Quant Time: Jun 7 13:08 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) 1,4-DICHLOROBENZENE-d4 INT | 6.88 | 150 | 563993 | 40.00 PPB | -0.02 |
| 19) NAPHTHALENE-d8 INT. STD. | 8.55 | 136 | 1222819 | 40.00 PPB | -0.02 |
| 35) ACENAPHTHENE-d10 INT. STD. | 10.92 | 162 | 695094 | 40.00 PPB | -0.01 |
| 54) PHENANTHRENE-d10 INT. STD. | 12.96 | 188 | 1225445 | 40.00 PPB | 0.00 |
| 67) CHRYSENE-d12 INT. STD. | 18.45 | 240 | 721916 | 40.00 PPB | 0.00 |
| 75) PERYLENE-d12 INT. STD. | 23.13 | 264 | 343090 | 40.00 PPB | 0.02 |

| System Monitoring Compounds | | | | | %Recovery |
|---|---|---|---|---|---|
| 4) 2-FLUOROPHENOL SURR. | 5.29 | 112 | 10317 | 0.96 PPB | # |
| 5) PHENOL-d6 SURR. | 6.44 | 99 | 20512 | 1.60 PPB | # |
| 20) NITROBENZENE-d5 SURR. | 7.62 | 82 | 21291 | 1.16 PPB | # |
| 39) 2-FLUOROBIPHENYL SURR. | 9.99 | 172 | 32997 | 1.77 PPB | # |
| 58) 2,4,6 TRIBROMOPHENOL SURR. | 11.99 | 330 | 5707 | 1.64 PPB | # |
| 70) TERPHENYL-d14 SURR. | 15.70 | 244 | 40673 | 1.99 PPB | m |

| Target Compounds | | | | | Qvalue |
|---|---|---|---|---|---|
| 2) N-NITROSODIMETHYLAMINE | 0.00 | 74 | | Not Detected | |
| 3) PYRIDINE | 0.00 | 79 | | Not Detected | |
| 6) PHENOL | 6.45 | 94 | 122257 | 8.30 PPB | 83 |
| 7) aniline | 0.00 | 93 | | Not Detected | |
| 8) BIS(2-CHLOROETHYL)ETHER | 0.00 | 93 | | Not Detected | |
| 9) 2-CHLOROPHENOL | 0.00 | 128 | | Not Detected | |
| 10) 1,3 DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 11) 1,4 DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 12) benzyl alcohol | 0.00 | 79 | | Not Detected | |
| 13) 1,2-DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 14) 2-METHYLPHENOL | 0.00 | 108 | | Not Detected | |
| 15) BIS(2-CHLOROISOPROPYL)ETHE | 0.00 | 45 | | Not Detected | |
| 16) 4-METHYLPHENOL | 7.40 | 107 | 244091 | 18.26 PPB # | 78 |
| 17) N-NITROSO-DI-N-PROPYLAMINE | 0.00 | 43 | | Not Detected | |
| 18) HEXACHLOROETHANE | 0.00 | 117 | | Not Detected | |
| 21) NITROBENZENE | 0.00 | 77 | | Not Detected | |
| 22) ISOPHORONE | 7.93 | 82 | 76452 | 2.07 PPB # | 82 |
| 23) 2,4 DIMETHYLPHENOL | 0.00 | 107 | | Not Detected | |
| 24) benzoic acid | 0.00 | 105 | | Not Detected | |
| 25) 2-NITROPHENOL | 0.00 | 139 | | Not Detected | |
| 26) BIS(2-CHLOROETHOXY)METHANE | 0.00 | 93 | | Not Detected | |
| 27) 2,4 DICHLOROPHENOL | 0.00 | 162 | | Not Detected | |
| 28) 1,2,4 TRICHLOROBENZENE | 8.48 | 180 | 21707 | 1.92 PPB # | 91 |
| 29) NAPHTHALENE | 8.58 | 128 | 499109 | 17.17 PPB | 89 |
| 30) 4-CHLOROANILINE | 0.00 | 127 | | Not Detected | |
| 31) HEXACHLOROBUTADIENE | 0.00 | 225 | | Not Detected | |
| 32) 4-CHLORO-3-METHYLPHENOL | 0.00 | 107 | | Not Detected | |
| 33) 2-METHYLNAPHTHALENE | 9.51 | 142 | 165629 | 7.46 PPB | 90 |
| 34) 2-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 36) HEXACHLOROCYCLOPENTADIENE | 0.00 | 237 | | Not Detected | |
| 37) 2,4,6-TRICHLOROPHENOL | 0.00 | 196 | | Not Detected | |
| 38) 2,4,5 TRICHLOROPHENOL | 0.00 | 196 | | Not Detected | |
| 40) 2-CHLORONAPHTHALENE | 0.00 | 162 | | Not Detected | |
| 41) DIMETHYLPHTHALATE | 0.00 | 163 | | Not Detected | |
| 42) 2,6 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 43) ACENAPHTHYLENE | 0.00 | 152 | | Not Detected | |

(#) = qualifier out of range (m) = manual integration
06040418.D G2060204.M Mon Jun 07 16:32:13 2004

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040418.D Vial: 17
Acq On : 4 Jun 104 10:27 pm Operator: J.AQUILINA
Sample : bna smp 358.03*3k dil qa/qc l.s. Inst : SVGCMS2
Misc : Multiplr: 1.00
Quant Time: Jun 7 13:08 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 44) | 3-NITROANILINE | 0.00 | 65 | | Not Detected | |
| 45) | ACENAPHTHENE | 10.97 | 153 | 25375 | 1.41 PPB # | 87 |
| 46) | 2,4-DINITROPHENOL | 0.00 | 184 | | Not Detected | |
| 47) | 4-NITROPHENOL | 0.00 | 65 | | Not Detected | |
| 48) | DIBENZOFURAN | 0.00 | 168 | | Not Detected | |
| 49) | 2,4 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 50) | DIETHYLPHTHLATE | 11.47 | 149 | 67236 | 2.19 PPB # | 78 |
| 51) | 4-CHLOROPHENYLPHENYL ETHER | 0.00 | 204 | | Not Detected | |
| 52) | FLUORENE | 11.65 | 166 | 48196 | 2.23 PPB # | 75 |
| 53) | 4-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 55) | 4,6-DINITRO-2-METHYLPHENOL | 0.00 | 198 | | Not Detected | |
| 56) | N-NITROSODIPHENYLAMINE | 0.00 | 168 | | Not Detected | |
| 57) | 1,2 DIPHENYLHYDRAZINE | 11.88 | 77 | 171953 | 3.98 PPB # | 15 |
| 59) | 4-BROMOPHENYLPHENYL ETHER | 0.00 | 248 | | Not Detected | |
| 60) | HEXACHLOROBENZENE | 0.00 | 284 | | Not Detected | |
| 61) | PENTACHLOROPHENOL | 0.00 | 266 | | Not Detected | |
| 62) | PHENANTHRENE | 12.99 | 178 | 221872 | 6.77 PPB # | 87 |
| 63) | ANTHRACENE | 0.00 | 178 | | Not Detected | |
| 64) | CARBAZOLE | 0.00 | 167 | | Not Detected | |
| 65) | DI-N-BUTYLPHTHALATE | 13.77 | 149 | 2968843 | 55.80 PPB | 88 |
| 66) | FLUORANTHENE | 14.96 | 202 | 103344 | 3.03 PPB | 94 |
| 68) | BENZIDINE | 0.00 | 184 | | Not Detected | |
| 69) | PYRENE | 15.42 | 202 | 106054 | 3.58 PPB m | 89 |
| 71) | BUTYLBENZYLPHTHALATE | 16.86 | 149 | 1004221 | 53.43 PPB m | 59 |
| 72) | BIS(2-ETHYLHEXYL)PHTHALATE | 18.50 | 149 | 2865656 | 112.08 PPB m | 79 |
| 73) | BENZO(A)ANTHRACENE | 18.42 | 228 | 31194 | 1.43 PPB m | 78 |
| 74) | CHRYSENE | 18.53 | 228 | 32900 | 1.55 PPB m | 90 |
| 76) | 3,3'-DICHLOROBENZIDINE | 0.00 | 252 | | Not Detected | |
| 77) | DI-N-OCTYL PHTHALATE | 20.60 | 149 | 36400 | 1.42 PPB m | 84 |
| 78) | BENZO(B)FLOURANTHENE | 21.89 | 252 | 21532 | 1.75 PPB m | 77 |
| 79) | BENZO(K)FLUORANTHENE | 21.99 | 252 | 6082 | 0.50 PPB m | 65 |
| 80) | BENZO(A)PYRENE | 0.00 | 252 | | Not Detected | |
| 81) | DIBENZO(A,H)ANTHRACENE | 0.00 | 278 | | Not Detected | |
| 82) | INDENO(1,2,3-CD)PYRENE | 0.00 | 276 | | Not Detected | |
| 83) | BENZO(G,H,I)PERYLENE | 0.00 | 276 | | Not Detected | |

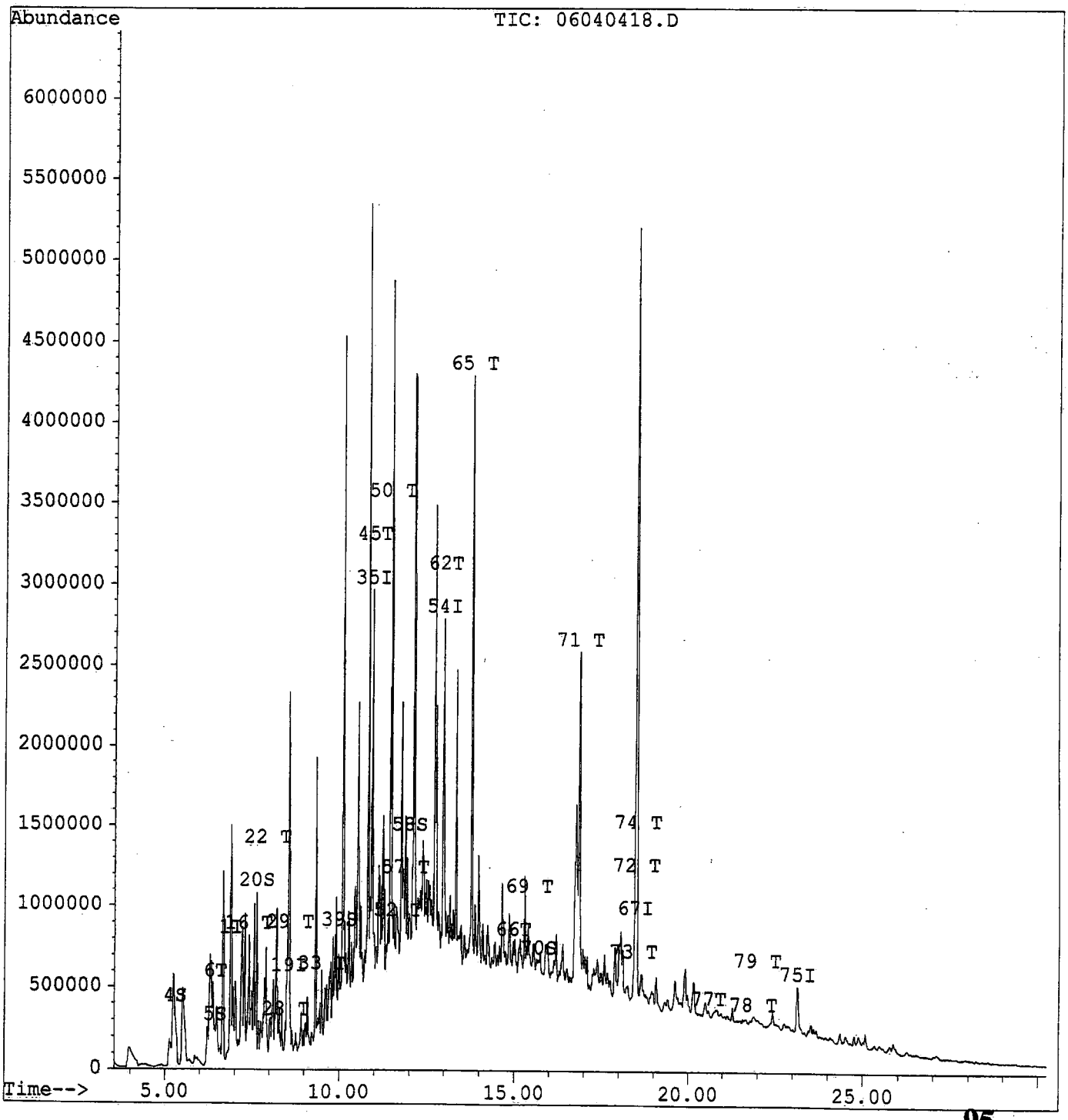


(#) = qualifier out of range (m) = manual integration
06040418.D G2060204.M Mon Jun 07 16:32:13 2004

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040418.D  Vial: 17
Acq On : 4 Jun 104 10:27 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*3k dil qa/qc 1.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00
Quant Time: Jun 7 13:08 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00
Quant Time: Jun 7 9:39 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) 1,4-DICHLOROBENZENE-d4 INT | 6.89 | 150 | 532811 | 40.00 PPB | 0.00 |
| 19) NAPHTHALENE-d8 INT. STD. | 8.56 | 136 | 1104132 | 40.00 PPB | 0.00 |
| 35) ACENAPHTHENE-d10 INT. STD. | 10.86 | 162 | 100126 | 40.00 PPB | -0.07 |
| 54) PHENANTHRENE-d10 INT. STD. | 12.99 | 188 | 800553 | 40.00 PPB | 0.03 |
| 67) CHRYSENE-d12 INT. STD. | 18.49 | 240 | 149146 | 40.00 PPB | 0.04 |
| 75) PERYLENE-d12 INT. STD. | 23.16 | 264 | 59485 | 40.00 PPB | 0.04 |

| System Monitoring Compounds | | | | | %Recovery |
|---|---|---|---|---|---|
| 4) 2-FLUOROPHENOL SURR. | 5.30 | 112 | 84763 | 8.37 PPB | # |
| 5) PHENOL-d6 SURR. | 6.46 | 99 | 165572 | 13.66 PPB | # |
| 20) NITROBENZENE-d5 SURR. | 7.63 | 82 | 184658 | 11.13 PPB | # |
| 39) 2-FLUOROBIPHENYL SURR. | 10.00 | 172 | 245682 | 91.51 PPB | m |
| 58) 2,4,6 TRIBROMOPHENOL SURR. | 12.03 | 330 | 41730 | 18.40 PPB | # |
| 70) TERPHENYL-d14 SURR. | 15.74 | 244 | 122946 | 29.09 PPB | |

| Target Compounds | | | | | Qvalue |
|---|---|---|---|---|---|
| 2) N-NITROSODIMETHYLAMINE | 0.00 | 74 | | Not Detected | |
| 3) PYRIDINE | 0.00 | 79 | | Not Detected | |
| 6) PHENOL | 6.47 | 94 | 958254 | 68.85 PPB # | 83 |
| 7) aniline | 0.00 | 93 | | Not Detected | |
| 8) BIS(2-CHLOROETHYL)ETHER | 0.00 | 93 | | Not Detected | |
| 9) 2-CHLOROPHENOL | 0.00 | 128 | | Not Detected | |
| 10) 1,3 DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 11) 1,4 DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 12) benzyl alcohol | 0.00 | 79 | | Not Detected | |
| 13) 1,2-DICHLOROBENZENE | 0.00 | 146 | | Not Detected | |
| 14) 2-METHYLPHENOL | 0.00 | 108 | | Not Detected | |
| 15) BIS(2-CHLOROISOPROPYL)ETHE | 0.00 | 45 | | Not Detected | |
| 16) 4-METHYLPHENOL | 7.45 | 107 | 1820637 | 144.14 PPB # | 72 |
| 17) N-NITROSO-DI-N-PROPYLAMINE | 0.00 | 43 | | Not Detected | |
| 18) HEXACHLOROETHANE | 0.00 | 117 | | Not Detected | |
| 21) NITROBENZENE | 0.00 | 77 | | Not Detected | |
| 22) ISOPHORONE | 7.96 | 82 | 655385 | 19.65 PPB # | 76 |
| 23) 2,4 DIMETHYLPHENOL | 0.00 | 107 | | Not Detected | |
| 24) benzoic acid | 0.00 | 105 | | Not Detected | |
| 25) 2-NITROPHENOL | 0.00 | 139 | | Not Detected | |
| 26) BIS(2-CHLOROETHOXY)METHANE | 0.00 | 93 | | Not Detected | |
| 27) 2,4 DICHLOROPHENOL | 0.00 | 162 | | Not Detected | |
| 28) 1,2,4 TRICHLOROBENZENE | 8.49 | 180 | 181853 | 17.81 PPB | 93 |
| 29) NAPHTHALENE | 8.60 | 128 | 4656457 | 177.38 PPB | 90 |
| 30) 4-CHLOROANILINE | 0.00 | 127 | | Not Detected | |
| 31) HEXACHLOROBUTADIENE | 0.00 | 225 | | Not Detected | |
| 32) 4-CHLORO-3-METHYLPHENOL | 0.00 | 107 | | Not Detected | |
| 33) 2-METHYLNAPHTHALENE | 9.52 | 142 | 1314272 | 65.52 PPB # | 84 |
| 34) 2-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 36) HEXACHLOROCYCLOPENTADIENE | 0.00 | 237 | | Not Detected | |
| 37) 2,4,6-TRICHLOROPHENOL | 0.00 | 196 | | Not Detected | |
| 38) 2,4,5 TRICHLOROPHENOL | 0.00 | 196 | | Not Detected | |
| 40) 2-CHLORONAPHTHALENE | 0.00 | 162 | | Not Detected | |
| 41) DIMETHYLPHTHALATE | 0.00 | 163 | | Not Detected | |
| 42) 2,6 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 43) ACENAPHTHYLENE | 10.75 | 152 | 101810 | 23.96 PPB m | 77 |

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

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D Vial: 19
Acq On : 4 Jun 104 11:48 pm Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s. Inst : SVGCMS2
Misc : Multiplr: 1.00
Quant Time: Jun 7 9:39 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 44) | 3-NITROANILINE | 0.00 | 65 | | Not Detected | |
| 45) | ACENAPHTHENE | 10.99 | 153 | 367738 | 142.23 PPB m | 30 |
| 46) | 2,4-DINITROPHENOL | 0.00 | 184 | | Not Detected | |
| 47) | 4-NITROPHENOL | 0.00 | 65 | | Not Detected | |
| 48) | DIBENZOFURAN | 0.00 | 168 | | Not Detected | |
| 49) | 2,4 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 50) | DIETHYLPHTHLATE | 11.50 | 149 | 737906 | 167.14 PPB m | 60 |
| 51) | 4-CHLOROPHENYLPHENYL ETHER | 0.00 | 204 | | Not Detected | |
| 52) | FLUORENE | 11.69 | 166 | 827472 | 266.17 PPB m | 86 |
| 53) | 4-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 55) | 4,6-DINITRO-2-METHYLPHENOL | 0.00 | 198 | | Not Detected | |
| 56) | N-NITROSODIPHENYLAMINE | 0.00 | 168 | | Not Detected | |
| 57) | 1,2 DIPHENYLHYDRAZINE | 11.90 | 77 | 1596826 | 56.60 PPB # | 24 |
| 59) | 4-BROMOPHENYLPHENYL ETHER | 0.00 | 248 | | Not Detected | |
| 60) | HEXACHLOROBENZENE | 0.00 | 284 | | Not Detected | |
| 61) | PENTACHLOROPHENOL | 0.00 | 266 | | Not Detected | |
| 62) | PHENANTHRENE | 13.03 | 178 | 1338015 | 62.49 PPB | 91 |
| 63) | ANTHRACENE | 13.11 | 178 | 151894 | 6.96 PPB # | 76 |
| 64) | CARBAZOLE | 0.00 | 167 | | Not Detected | |
| 65) | DI-N-BUTYLPHTHALATE | 13.81 | 149 | 21255535 | 611.59 PPB | 93 |
| 66) | FLUORANTHENE | 15.00 | 202 | 381796 | 17.13 PPB | 95 |
| 68) | BENZIDINE | 0.00 | 184 | | Not Detected | |
| 69) | PYRENE | 15.47 | 202 | 364229 | 59.55 PPB | 90 |
| 71) | BUTYLBENZYLPHTHALATE | 16.92 | 149 | 2788141 | 718.05 PPB # | 60 |
| 72) | BIS(2-ETHYLHEXYL)PHTHALATE | 18.55 | 149 | 8080668 | 1529.73 PPB | 81 |
| 73) | BENZO(A)ANTHRACENE | 18.47 | 228 | 59198 | 13.16 PPB | 89 |
| 74) | CHRYSENE | 18.58 | 228 | 65916 | 15.02 PPB | 93 |
| 76) | 3,3'-DICHLOROBENZIDINE | 0.00 | 252 | | Not Detected | |
| 77) | DI-N-OCTYL PHTHALATE | 20.61 | 149 | 77917 | 17.51 PPB m | 77 |
| 78) | BENZO(B)FLOURANTHENE | 21.91 | 252 | 33423 | 15.68 PPB m | 97 |
| 79) | BENZO(K)FLUORANTHENE | 22.00 | 252 | 6946 | 3.30 PPB m | 64 |
| 80) | BENZO(A)PYRENE | 23.00 | 252 | 12621 | 7.19 PPB m | 70 |
| 81) | DIBENZO(A,H)ANTHRACENE | 26.80 | 278 | 1767 | 1.77 PPB m | 56 |
| 82) | INDENO(1,2,3-CD)PYRENE | 26.76 | 276 | 5581 | 4.53 PPB m | 51 |
| 83) | BENZO(G,H,I)PERYLENE | 27.59 | 276 | 5717 | 5.90 PPB m | 1 |

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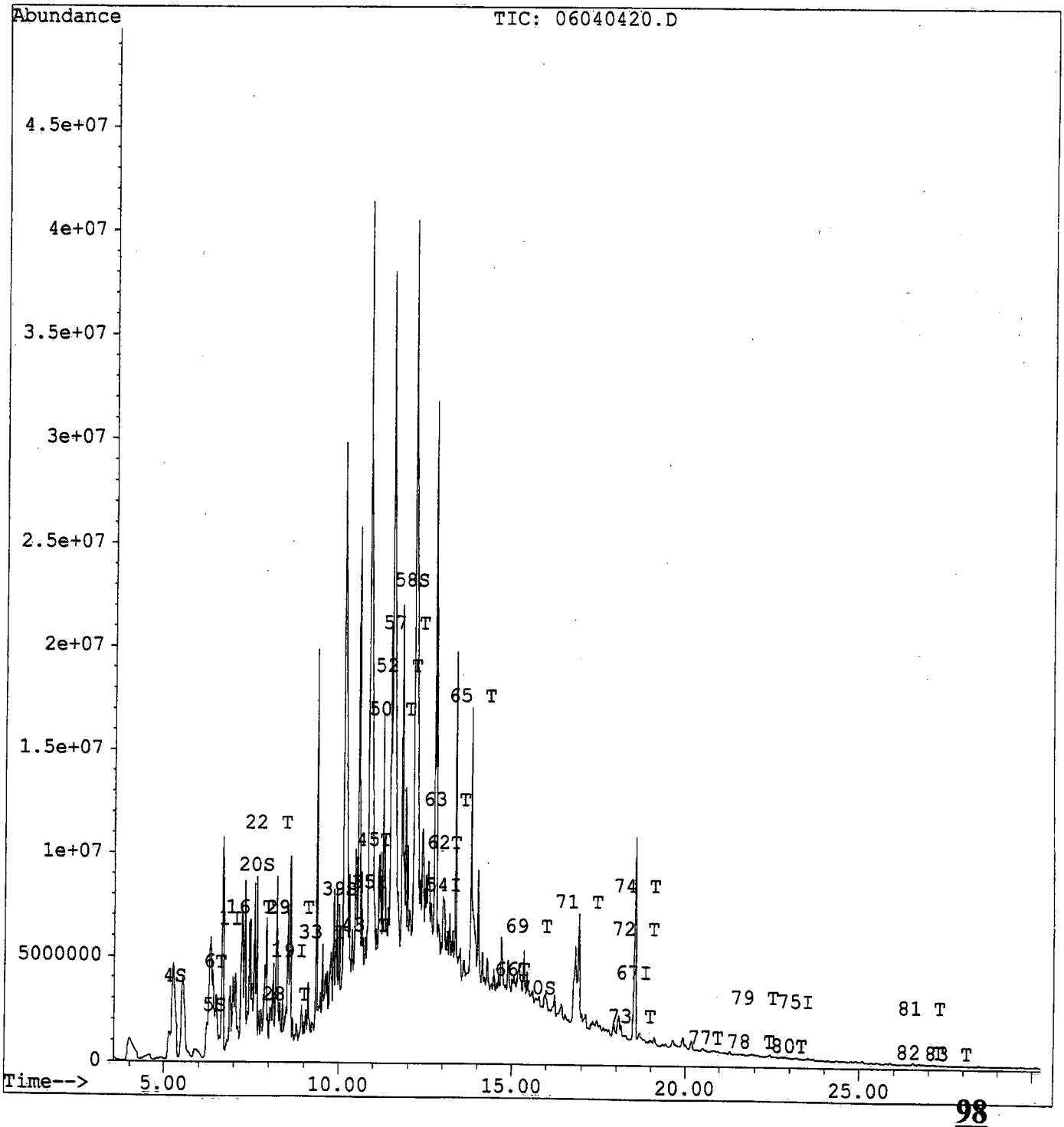
(#) = qualifier out of range (m) = manual integration
06040420.D G2060204.M Mon Jun 07 16:32:21 2004

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060404\06040420.D  Vial: 19
Acq On : 4 Jun 104 11:48 pm  Operator: J.AQUILINA
Sample : bna smp 358.03*300 dil qa/qc l.s.  Inst : SVGCMS2
Misc :  Multiplr: 1.00
Quant Time: Jun 7 9:39 19104

Method : C:\HPCHEM\1\METHODS\G2060204.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Thu Jun 03 09:19:48 2004
Response via : Multiple Level Calibration




98

SVOCs BY EPA METHOD 8270 - QC DELIVERABLES:
FOR ECOTEST SAMPLE Nos. 242358.04 TCLP

# Conformance/Nonconformance Summary
# 8270

For sample 242358.04

QC criteria were met for the following unless stated otherwise:
* Method blank
* MDL study
* Surrogate recoveries

Base/Neutral surrogate was accidentally not added to the method blank.

* Matrix Spike & Matrix Spike Duplicate RPD
* Reference sample
* Holding Time (USEPA SW846)
* Initial instrument calibration & continuing calibration
* GCMS Tune criteria
* Internal Standard Recovery

## Lab Chronicle

| intstrument ran on | date rec'd | date col'd | Lab number | Sample | Date of Extraction | Holding Time Before Extraction (Days) | Date of Analysis | Holding Time After Extraction 8270 (Days) |
|---|---|---|---|---|---|---|---|---|
| svgcms#3 | 06/02/04 | 06/01/04 | 242358.04 | BBD-WC-Bldg. 8 Septic | 06/03/04 | 2 | 06/03/04 | 0 |

**ANALYTICAL RESULTS SUMMARY**
**BNA - (8270)**

| Lab Number | Sample Volume | % Moist. | Dilution Factor | Run on Instrument | Column |
|---|---|---|---|---|---|
| 242358.04 | 100 ml | >95 | 10 | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |

# MDL / PQL
# LIMITS

**Instrument : SVGCMS#3**

| Compound | MDL ug/L | PQL ug/L |
|---|---|---|
| Pyridine | 0.1 | <1 |
| Hexachloroethane | 0.2 | <1 |
| Nitrobenzene | 0.2 | <1 |
| Hexachlorobutadiene | 0.3 | <1 |
| 2,4 Dinitrotoluene | 0.1 | <1 |
| Hexachlorobenzene | 0.1 | <1 |
| 2 Methylphenol | 0.2 | <1 |
| 4 Methylphenol | 0.2 | <1 |
| 2,4,6 Trichlorophenol | 0.2 | <1 |
| 2,4,5 Trichlorophenol | 0.3 | <1 |
| Pentachlorophenol | 0.2 | <10 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | METHOD BLANK RESULTS SUMMARY | | | | | |
| | | BNA - (8270) | | | | | |
| | | | | | | | |
| | | | | | | | |
| Date | Date | Date of | Sample | % | Dilution | Run on | Column |
| Rec'd | Extracted | Analysis | Volume | Moisture | Factor | Instrument | |
| --- | 06/03/04 | 06/03/04 | 100mL | >95 | 10 | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| | | | | | | | |
| Method blank associated with: | | | bna matrix spike | | | | |
| | | | bna matrix spike dup. | | | | |
| | | | bna smp 242358.04 | | | | |

| Date Time Summary | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| | | | | Run on | GC |
| Sample | Date | Time | SampleType | Instrument | Column |
| DFTPP | 06/03/04 | 12:45 PM | DFTPP Tune Check | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| bna std 30 ppb s04-1 | 06/03/04 | 1:13 PM | continuing calibration standard | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| bna std 1 ppb s04-1 | 06/03/04 | 1:56 PM | detection limit standard | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| bna std 10 ppb s04-1 | 06/03/04 | 2:39 PM | detection limit standard | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| bna method blank-tclp | 06/03/04 | 5:07 PM | method blank | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| bna matrix spike-tclp cc04-1 | 06/03/04 | 5:48 PM | matrix spike | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| bna matrix spike dup-tclp cc04-1 | 06/03/04 | 6:32 PM | matrix spike duplicate | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| bna smp 358.04*10 100 mL tclp | 06/03/04 | 9:28 PM | sample | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| DFTPP | 06/03/04 | 10:07 PM | DFTPP Tune Check | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |
| bna qc std 50 ppb cc04-1 | 06/03/04 | 10:36 PM | quality control standard | svgcms#3 | Restek XTI-5, 30m, 0.25mmID, 1.0um df |

| | Surrogate Compound Result Summary | | | | | |
|---|---|---|---|---|---|---|
| | | BNA (8270) | | | | |
| | Surrogate Spiked @ 100 ppb | | | | | |
| run on | svgcms#3 | | | | | |
| tclp | ACID SURR. | | | BASE SURR. | | |
| SAMPLE | 2-Fluorophenol | Phenol-d6 | 2,4,6-Tribromophenol | Nitrobenzene-d5 | 2-Fluorobiphenyl | Terphenyl-d14 |
| 242358.04 | 54 | 56 | 71 | 27 | 72 | 88 |
| LIMITS | 3--92 | 9--88 | 22--118 | 15--105 | 11--109 | 25--142 |

| | MS/MSD RECOVERY RESULT SUMMARY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | BNA (8270), Date: 06/03/04 | | | | | | | | |
| Run on Instrument | svgcms#3 | | | | | | | | |
| Compound | Unspiked | Spike | MS | MS | MSD | MSD | RPD | Recovery | RPD |
| | Conc | Added | Conc | Recov. | Conc | Recov. | | Limits | Limits |
| tclp | (ug/L) | (ug/L) | (ug/L) | (%) | (ug/L) | (%) | (%) | (%) | (%) |
| Pyridine | 0 | 50 | 28 | 56 | 24 | 49 | 13.0 | 20--115 | 32 |
| Hexachloroethane | 0 | 50 | 36 | 72 | 32 | 64 | 12.4 | 28--94 | 40 |
| Nitrobenzene | 0 | 50 | 39 | 77 | 31 | 62 | 21.5 | 43--90 | 22 |
| Hexachlorobutadiene | 0 | 50 | 42 | 84 | 33 | 66 | 23.5 | 35--98 | 28 |
| 2,4 Dinitrotoluene | 0 | 50 | 46 | 91 | 37 | 74 | 20.3 | 53--129 | 25 |
| Hexachlorobenzene | 0 | 50 | 45 | 91 | 37 | 73 | 21.7 | 51--118 | 22 |
| 2 Methylphenol | 0 | 100 | 72 | 72 | 65 | 65 | 10.2 | 39--110 | 28 |
| 4 Methylphenol | 0 | 100 | 72 | 72 | 64 | 64 | 11.9 | 40--113 | 25 |
| 2,4,6 Trichlorophenol | 0 | 100 | 95 | 95 | 82 | 82 | 14.3 | 46--128 | 22 |
| 2,4,5 Trichlorophenol | 0 | 100 | 86 | 86 | 76 | 76 | 13.2 | 44--125 | 23 |
| Pentachlorophenol | 0 | 100 | 102 | 102 | 87 | 87 | 15.8 | 46--132 | 33 |

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060304\06030408.D  Vial: 8
Acq On : 3 Jun 104 5:07 pm  Operator: J. Aquilina
Sample : bna method blank-tclp  Inst : SVGCMS#3
Misc :  Multiplr: 1.00
Quant Time: Jun 4 9:37 19104

Method : C:\HPCHEM\1\METHODS\G3051004.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Tue May 11 11:32:23 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) 1,4-DICHLOROBENZENE-d4 INT | 6.93 | 150 | 951827 | 40.00 PPB | -0.02 |
| 19) NAPHTHALENE-d8 INT. STD. | 8.43 | 136 | 2443296 | 40.00 PPB | -0.02 |
| 35) ACENAPHTHENE-d10 INT. STD. | 10.56 | 162 | 1307811 | 40.00 PPB | -0.02 |
| 54) PHENANTHRENE-d10 INT. STD. | 12.38 | 188 | 2376486 | 40.00 PPB | -0.02 |
| 67) CHRYSENE-d12 INT. STD. | 17.11 | 240 | 1477497 | 40.00 PPB | -0.05 |
| 75) PERYLENE-d12 INT. STD. | 21.31 | 264 | 837882 | 40.00 PPB | -0.04 |

| System Monitoring Compounds | | | | | %Recovery |
|---|---|---|---|---|---|
| 4) 2-FLUOROPHENOL SURR. | 5.48 | 112 | 1356581 | 65.04 PPB | |
| 5) PHENOL-d6 SURR. | 6.52 | 99 | 1449393 | 55.63 PPB | |
| 20) NITROBENZENE-d5 SURR. | 7.60 | 82 | 32862 | 1.25 PPB | m |
| 39) 2-FLUOROBIPHENYL SURR. | 9.73 | 172 | 51018 | 1.19 PPB | |
| 58) 2,4,6 TRIBROMOPHENOL SURR. | 11.53 | 330 | 634258 | 86.96 PPB | # |
| 70) TERPHENYL-d14 SURR. | 14.76 | 244 | 60506 | 1.41 PPB | |

| Target Compounds | | | | Qvalue |
|---|---|---|---|---|
| 2) N-NITROSODIMETHYLAMINE | 0.00 | 74 | Not Detected | |
| 3) PYRIDINE | 0.00 | 79 | Not Detected | |
| 6) PHENOL CCC | 0.00 | 94 | Not Detected | |
| 7) aniline | 0.00 | 93 | Not Detected | |
| 8) BIS(2-CHLOROETHYL)ETHER | 0.00 | 93 | Not Detected | |
| 9) 2-CHLOROPHENOL | 0.00 | 128 | Not Detected | |
| 10) 1,3 DICHLOROBENZENE | 0.00 | 146 | Not Detected | |
| 11) 1,4 DICHLOROBENZENE CCC | 0.00 | 146 | Not Detected | |
| 12) benzyl alcohol | 0.00 | 79 | Not Detected | |
| 13) 1,2-DICHLOROBENZENE | 0.00 | 146 | Not Detected | |
| 14) 2-METHYLPHENOL | 0.00 | 108 | Not Detected | |
| 15) BIS(2-CHLOROISOPROPYL)ETHE | 0.00 | 45 | Not Detected | |
| 16) 4-METHYLPHENOL | 0.00 | 107 | Not Detected | |
| 17) N-NITROSO-DI-N-PROPYLAMINE | 0.00 | 43 | Not Detected | |
| 18) HEXACHLOROETHANE | 0.00 | 117 | Not Detected | |
| 21) NITROBENZENE | 0.00 | 77 | Not Detected | |
| 22) ISOPHORONE | 0.00 | 82 | Not Detected | |
| 23) 2,4 DIMETHYLPHENOL | 0.00 | 107 | Not Detected | |
| 24) Benzoic Acid | 0.00 | 105 | Not Detected | |
| 25) 2-NITROPHENOL | 0.00 | 139 | Not Detected | |
| 26) BIS(2-CHLOROETHOXY)METHANE | 0.00 | 93 | Not Detected | |
| 27) 2,4 DICHLOROPHENOL CCC | 0.00 | 162 | Not Detected | |
| 28) 1,2,4 TRICHLOROBENZENE | 0.00 | 180 | Not Detected | |
| 29) NAPHTHALENE | 0.00 | 128 | Not Detected | |
| 30) 4-CHLOROANILINE | 0.00 | 127 | Not Detected | |
| 31) HEXACHLOROBUTADIENE CCC | 0.00 | 225 | Not Detected | |
| 32) 4-CHLORO-3-METHYLPHENOL CC | 0.00 | 107 | Not Detected | |
| 33) 2-METHYLNAPHTHALENE | 0.00 | 142 | Not Detected | |
| 34) 2-NITROANILINE | 0.00 | 138 | Not Detected | |
| 36) HEXACHLOROCYCLOPENTADIENE | 0.00 | 237 | Not Detected | |
| 37) 2,4,6-TRICHLOROPHENOL CCC | 0.00 | 196 | Not Detected | |
| 38) 2,4,5 TRICHLOROPHENOL | 0.00 | 196 | Not Detected | |
| 40) 2-CHLORONAPHTHALENE | 0.00 | 162 | Not Detected | |
| 41) DIMETHYLPHTHALATE | 0.00 | 163 | Not Detected | |
| 42) 2,6 DINITROTOLUENE | 0.00 | 165 | Not Detected | |
| 43) ACENAPHTHYLENE | 0.00 | 152 | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060304\06030408.D Vial: 8
Acq On : 3 Jun 104 5:07 pm Operator: J. Aquilina
Sample : bna method blank-tclp Inst : SVGCMS#3
Misc : Multiplr: 1.00
Quant Time: Jun 4 9:37 19104

Method : C:\HPCHEM\1\METHODS\G3051004.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Tue May 11 11:32:23 2004
Response via : Multiple Level Calibration

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 44) 3-NITROANILINE | 0.00 | 65 | | Not Detected | |
| 45) ACENAPHTHENE CCC | 0.00 | 153 | | Not Detected | |
| 46) 2,4-DINITROPHENOL SPCC | 0.00 | 184 | | Not Detected | |
| 47) 4-NITROPHENOL SPCC | 0.00 | 65 | | Not Detected | |
| 48) DIBENZOFURAN | 0.00 | 168 | | Not Detected | |
| 49) 2,4 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 50) DIETHYLPHTHLATE | 0.00 | 149 | | Not Detected | |
| 51) 4-CHLOROPHENYLPHENYL ETHER | 0.00 | 204 | | Not Detected | |
| 52) FLUORENE | 0.00 | 166 | | Not Detected | |
| 53) 4-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 55) 4,6-DINITRO-2-METHYLPHENOL | 0.00 | 198 | | Not Detected | |
| 56) N-NITROSODIPHENYLAMINE | 0.00 | 168 | | Not Detected | |
| 57) 1,2 DIPHENYLHYDRAZINE | 0.00 | 77 | | Not Detected | |
| 59) 4-BROMOPHENYLPHENYL ETHER | 0.00 | 248 | | Not Detected | |
| 60) HEXACHLOROBENZENE | 0.00 | 284 | | Not Detected | |
| 61) PENTACHLOROPHENOL CCC | 0.00 | 266 | | Not Detected | |
| 62) PHENANTHRENE | 0.00 | 178 | | Not Detected | |
| 63) ANTHRACENE | 0.00 | 178 | | Not Detected | |
| 64) CARBAZOLE | 0.00 | 167 | | Not Detected | |
| 65) DI-N-BUTYLPHTHALATE | 0.00 | 149 | | Not Detected | |
| 66) FLUORANTHENE CCC | 0.00 | 202 | | Not Detected | |
| 68) BENZIDINE | 0.00 | 184 | | Not Detected | |
| 69) PYRENE | 0.00 | 202 | | Not Detected | |
| 71) BUTYLBENZYLPHTHALATE | 0.00 | 149 | | Not Detected | |
| 72) BIS(2-ETHYLHEXYL)PHTHALATE | 17.22 | 149 | 10484 | 0.23 PPB # | 74 |
| 73) BENZO(A)ANTHRACENE | 0.00 | 228 | | Not Detected | |
| 74) CHRYSENE | 0.00 | 228 | | Not Detected | |
| 76) 3,3'-DICHLOROBENZIDINE | 0.00 | 252 | | Not Detected | |
| 77) DI-N-OCTYL PHTHALATE CCC | 0.00 | 149 | | Not Detected | |
| 78) BENZO(B)FLOURANTHENE | 0.00 | 252 | | Not Detected | |
| 79) BENZO(K)FLUORANTHENE | 0.00 | 252 | | Not Detected | |
| 80) BENZO(A)PYRENE CCC | 0.00 | 252 | | Not Detected | |
| 81) DIBENZO(A,H)ANTHRACENE | 0.00 | 278 | | Not Detected | |
| 82) INDENO(1,2,3-CD)PYRENE | 0.00 | 276 | | Not Detected | |
| 83) BENZO(G,H,I)PERYLENE | 0.00 | 276 | | Not Detected | |

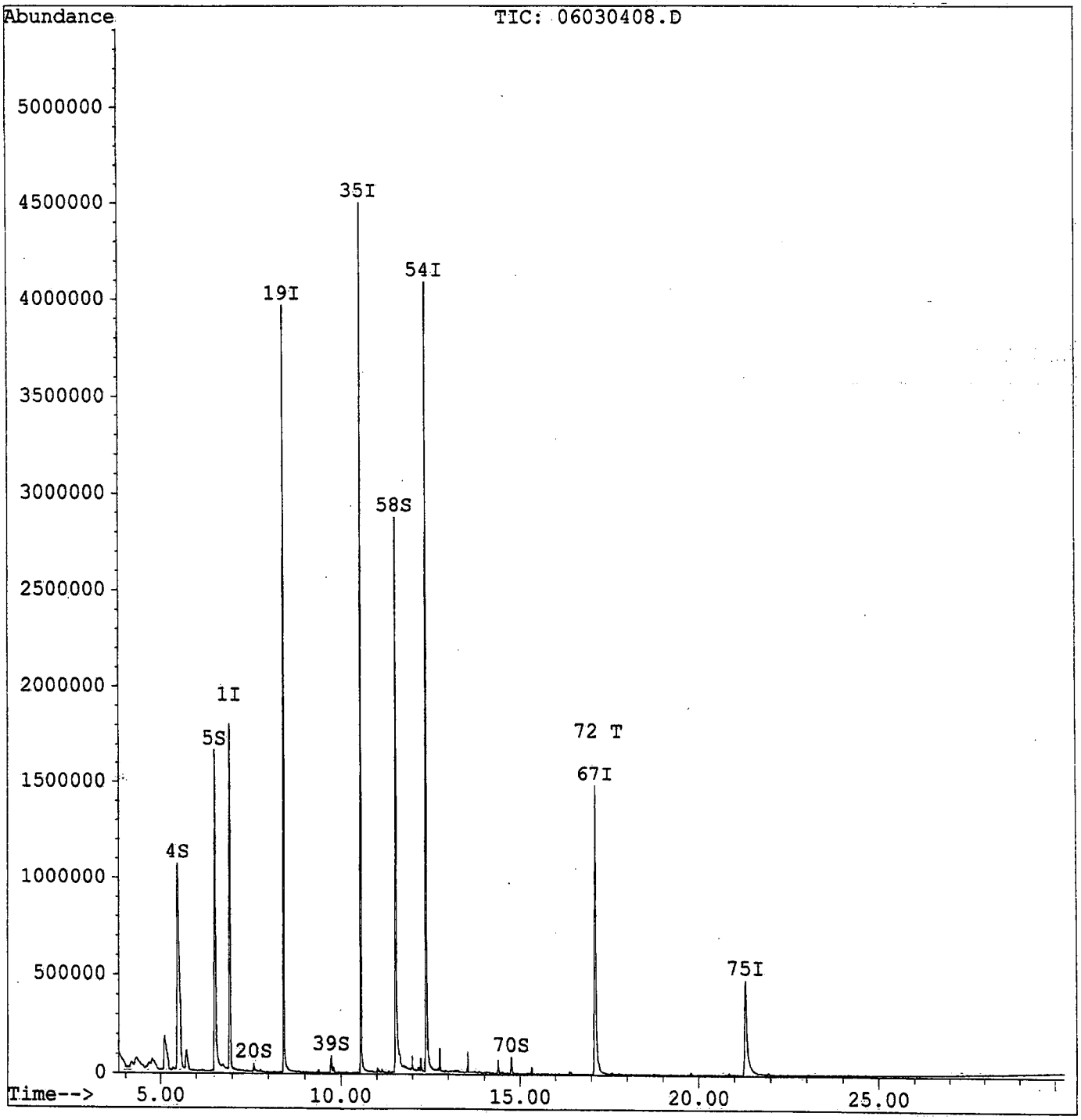


(#) = qualifier out of range (m) = manual integration
06030408.D G3051004.M Fri Jun 04 12:46:54 2004 SVGCMS#3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060304\06030408.D  Vial: 8
Acq On : 3 Jun 104 5:07 pm  Operator: J. Aquilina
Sample : bna method blank-tclp  Inst : SVGCMS#3
Misc :  Multiplr: 1.00
Quant Time: Jun 4 9:37 19104

Method : C:\HPCHEM\1\METHODS\G3051004.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Tue May 11 11:32:23 2004
Response via : Multiple Level Calibration




**110**

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060304\06030414.D  Vial: 14
Acq On : 3 Jun 104 9:28 pm  Operator: J. Aquilina
Sample : bna smp 358.04*10 100ml tclp qc  Inst : SVGCMS#3
Misc : ext. 6/3/04  Multiplr: 1.00
Quant Time: Jun 4 9:43 19104

Method : C:\HPCHEM\1\METHODS\G3051004.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Tue May 11 11:32:23 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) 1,4-DICHLOROBENZENE-d4 INT | 6.93 | 150 | 1055662 | 40.00 PPB | -0.02 |
| 19) NAPHTHALENE-d8 INT. STD. | 8.44 | 136 | 2808996 | 40.00 PPB | -0.01 |
| 35) ACENAPHTHENE-d10 INT. STD. | 10.56 | 162 | 1478688 | 40.00 PPB | -0.02 |
| 54) PHENANTHRENE-d10 INT. STD. | 12.38 | 188 | 2677571 | 40.00 PPB | -0.02 |
| 67) CHRYSENE-d12 INT. STD. | 17.11 | 240 | 1535317 | 40.00 PPB | -0.06 |
| 75) PERYLENE-d12 INT. STD. | 21.28 | 264 | 760352 | 40.00 PPB | -0.06 |

| System Monitoring Compounds | | | | | %Recovery |
|---|---|---|---|---|---|
| 4) 2-FLUOROPHENOL SURR. | 5.49 | 112 | 1255765 | 54.28 PPB | |
| 5) PHENOL-d6 SURR. | 6.52 | 99 | 1610553 | 55.73 PPB | |
| 20) NITROBENZENE-d5 SURR. | 7.59 | 82 | 830215 | 27.39 PPB | |
| 39) 2-FLUOROBIPHENYL SURR. | 9.73 | 172 | 3477059 | 71.82 PPB | |
| 58) 2,4,6 TRIBROMOPHENOL SURR. | 11.53 | 330 | 582877 | 70.93 PPB | # |
| 70) TERPHENYL-d14 SURR. | 14.76 | 244 | 3929250 | 88.07 PPB | |

| Target Compounds | | | | Qvalue |
|---|---|---|---|---|
| 2) N-NITROSODIMETHYLAMINE | 0.00 | 74 | Not Detected | |
| 3) PYRIDINE | 0.00 | 79 | Not Detected | |
| 6) PHENOL CCC | 0.00 | 94 | Not Detected | |
| 7) aniline | 0.00 | 93 | Not Detected | |
| 8) BIS(2-CHLOROETHYL)ETHER | 0.00 | 93 | Not Detected | |
| 9) 2-CHLOROPHENOL | 0.00 | 128 | Not Detected | |
| 10) 1,3 DICHLOROBENZENE | 0.00 | 146 | Not Detected | |
| 11) 1,4 DICHLOROBENZENE CCC | 0.00 | 146 | Not Detected | |
| 12) benzyl alcohol | 0.00 | 79 | Not Detected | |
| 13) 1,2-DICHLOROBENZENE | 0.00 | 146 | Not Detected | |
| 14) 2-METHYLPHENOL | 0.00 | 108 | Not Detected | |
| 15) BIS(2-CHLOROISOPROPYL)ETHE | 0.00 | 45 | Not Detected | |
| 16) 4-METHYLPHENOL | 0.00 | 107 | Not Detected | |
| 17) N-NITROSO-DI-N-PROPYLAMINE | 0.00 | 43 | Not Detected | |
| 18) HEXACHLOROETHANE | 0.00 | 117 | Not Detected | |
| 21) NITROBENZENE | 0.00 | 77 | Not Detected | |
| 22) ISOPHORONE | 0.00 | 82 | Not Detected | |
| 23) 2,4 DIMETHYLPHENOL | 0.00 | 107 | Not Detected | |
| 24) Benzoic Acid | 0.00 | 105 | Not Detected | |
| 25) 2-NITROPHENOL | 0.00 | 139 | Not Detected | |
| 26) BIS(2-CHLOROETHOXY)METHANE | 0.00 | 93 | Not Detected | |
| 27) 2,4 DICHLOROPHENOL CCC | 0.00 | 162 | Not Detected | |
| 28) 1,2,4 TRICHLOROBENZENE | 0.00 | 180 | Not Detected | |
| 29) NAPHTHALENE | 0.00 | 128 | Not Detected | |
| 30) 4-CHLOROANILINE | 0.00 | 127 | Not Detected | |
| 31) HEXACHLOROBUTADIENE CCC | 0.00 | 225 | Not Detected | |
| 32) 4-CHLORO-3-METHYLPHENOL CC | 0.00 | 107 | Not Detected | |
| 33) 2-METHYLNAPHTHALENE | 0.00 | 142 | Not Detected | |
| 34) 2-NITROANILINE | 0.00 | 138 | Not Detected | |
| 36) HEXACHLOROCYCLOPENTADIENE | 0.00 | 237 | Not Detected | |
| 37) 2,4,6-TRICHLOROPHENOL CCC | 0.00 | 196 | Not Detected | |
| 38) 2,4,5 TRICHLOROPHENOL | 0.00 | 196 | Not Detected | |
| 40) 2-CHLORONAPHTHALENE | 0.00 | 162 | Not Detected | |
| 41) DIMETHYLPHTHALATE | 0.00 | 163 | Not Detected | |
| 42) 2,6 DINITROTOLUENE | 0.00 | 165 | Not Detected | |
| 43) ACENAPHTHYLENE | 0.00 | 152 | Not Detected | |

111

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060304\06030414.D Vial: 14
Acq On : 3 Jun 104 9:28 pm Operator: J. Aquilina
Sample : bna smp 358.04*10 100ml tclp qc Inst : SVGCMS#3
Misc : ext. 6/3/04 Multiplr: 1.00
Quant Time: Jun 4 9:43 19104

Method : C:\HPCHEM\1\METHODS\G3051004.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Tue May 11 11:32:23 2004
Response via : Multiple Level Calibration

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 44) 3-NITROANILINE | 0.00 | 65 | | Not Detected | |
| 45) ACENAPHTHENE CCC | 0.00 | 153 | | Not Detected | |
| 46) 2,4-DINITROPHENOL SPCC | 0.00 | 184 | | Not Detected | |
| 47) 4-NITROPHENOL SPCC | 0.00 | 65 | | Not Detected | |
| 48) DIBENZOFURAN | 0.00 | 168 | | Not Detected | |
| 49) 2,4 DINITROTOLUENE | 0.00 | 165 | | Not Detected | |
| 50) DIETHYLPHTHLATE | 0.00 | 149 | | Not Detected | |
| 51) 4-CHLOROPHENYLPHENYL ETHER | 0.00 | 204 | | Not Detected | |
| 52) FLUORENE | 0.00 | 166 | | Not Detected | |
| 53) 4-NITROANILINE | 0.00 | 138 | | Not Detected | |
| 55) 4,6-DINITRO-2-METHYLPHENOL | 0.00 | 198 | | Not Detected | |
| 56) N-NITROSODIPHENYLAMINE | 0.00 | 168 | | Not Detected | |
| 57) 1,2 DIPHENYLHYDRAZINE | 0.00 | 77 | | Not Detected | |
| 59) 4-BROMOPHENYLPHENYL ETHER | 0.00 | 248 | | Not Detected | |
| 60) HEXACHLOROBENZENE | 0.00 | 284 | | Not Detected | |
| 61) PENTACHLOROPHENOL CCC | 0.00 | 266 | | Not Detected | |
| 62) PHENANTHRENE | 0.00 | 178 | | Not Detected | |
| 63) ANTHRACENE | 0.00 | 178 | | Not Detected | |
| 64) CARBAZOLE | 0.00 | 167 | | Not Detected | |
| 65) DI-N-BUTYLPHTHALATE | 0.00 | 149 | | Not Detected | |
| 66) FLUORANTHENE CCC | 0.00 | 202 | | Not Detected | |
| 68) BENZIDINE | 0.00 | 184 | | Not Detected | |
| 69) PYRENE | 0.00 | 202 | | Not Detected | |
| 71) BUTYLBENZYLPHTHALATE | 0.00 | 149 | | Not Detected | |
| 72) BIS(2-ETHYLHEXYL)PHTHALATE | 17.21 | 149 | 28193 | 0.60 PPB m | 86 |
| 73) BENZO(A)ANTHRACENE | 0.00 | 228 | | Not Detected | |
| 74) CHRYSENE | 0.00 | 228 | | Not Detected | |
| 76) 3,3'-DICHLOROBENZIDINE | 0.00 | 252 | | Not Detected | |
| 77) DI-N-OCTYL PHTHALATE CCC | 0.00 | 149 | | Not Detected | |
| 78) BENZO(B)FLOURANTHENE | 0.00 | 252 | | Not Detected | |
| 79) BENZO(K)FLUORANTHENE | 0.00 | 252 | | Not Detected | |
| 80) BENZO(A)PYRENE CCC | 0.00 | 252 | | Not Detected | |
| 81) DIBENZO(A,H)ANTHRACENE | 0.00 | 278 | | Not Detected | |
| 82) INDENO(1,2,3-CD)PYRENE | 0.00 | 276 | | Not Detected | |
| 83) BENZO(G,H,I)PERYLENE | 0.00 | 276 | | Not Detected | |

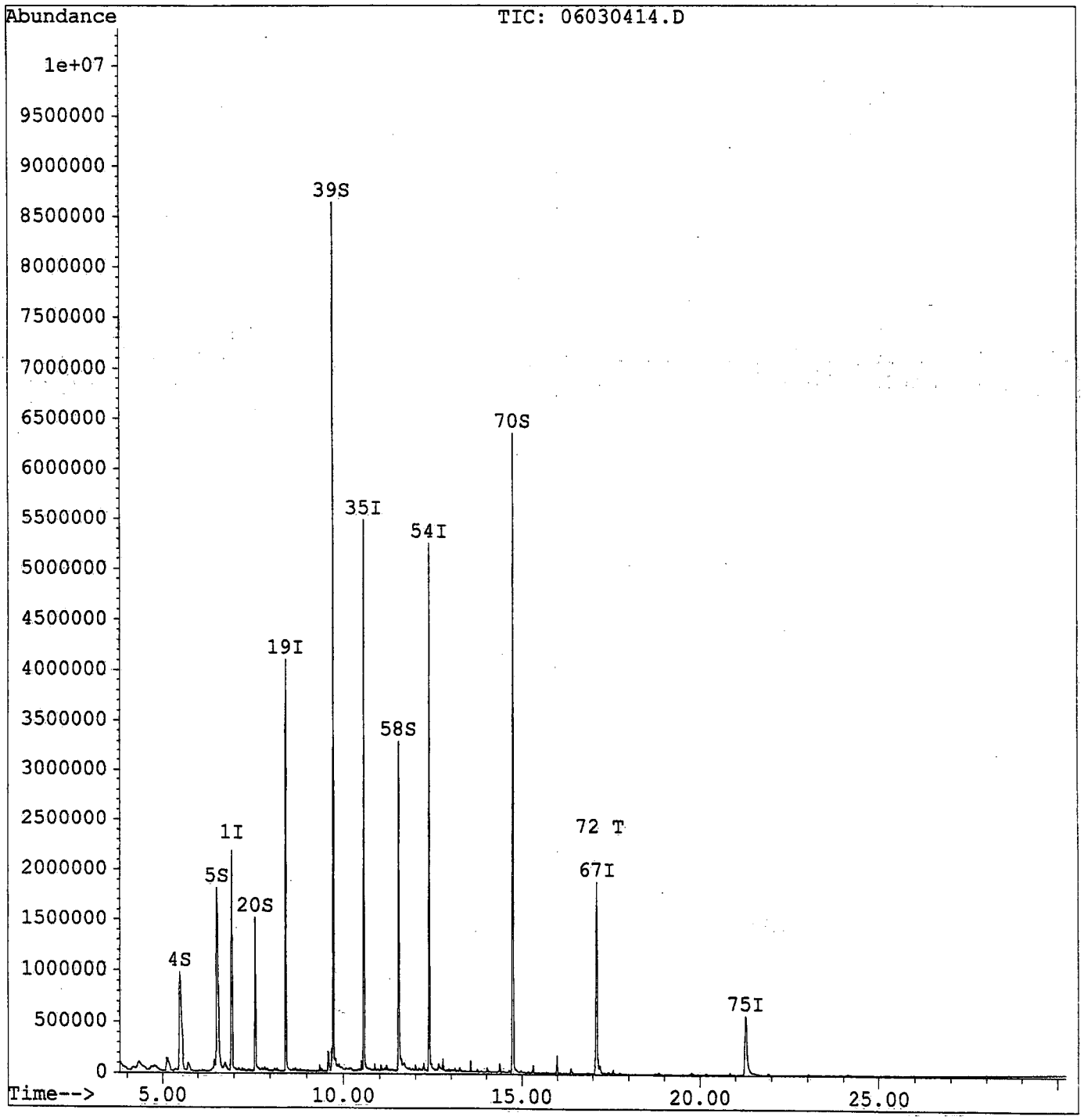


(#) = qualifier out of range (m) = manual integration
06030414.D G3051004.M Fri Jun 04 12:47:10 2004 SVGCMS#3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN04\060304\06030414.D  Vial: 14
Acq On : 3 Jun 104 9:28 pm  Operator: J. Aquilina
Sample : bna smp 358.04*10 100ml tclp qc  Inst : SVGCMS#3
Misc : ext. 6/3/04  Multiplr: 1.00
Quant Time: Jun 4 9:43 19104

Method : C:\HPCHEM\1\METHODS\G3051004.M
Title : BASE/NEUTRALS & ACID EXTRACTABLES
Last Update : Tue May 11 11:32:23 2004
Response via : Multiple Level Calibration




**113**

VOCs BY EPA METHOD 8260 - QC DELIVERABLES INCLUDING: CONFORMANCE/NONCONFORMANCE SUMMARIES, LABORATORY CHRONICAL, ANALYTICAL SUMMARY, MDLs & PQLs, METHOD BLANK SUMMARY, DATE/TIME SUMMARY, SURROGATE COMPOUND RESULTS SUMMARY, MS/MSD RECOVERY RESULTS SUMMARY, QUANTIFICATION REPORTS AND CHROMATOGRAMS FOR FOR ECOTEST SAMPLE Nos. 242358.01-.03

**Conformance/Nonconformance Summary**

QC criteria were met for the following unless stated otherwise:

* Method blank

  Freon, Methylene Chloride, and Chloroform were detected in the method blank, and were subtracted out in order to obtain final results.
* MDL study
* Surrogate recoveries
* Matrix Spike & Matrix Spike Duplicate RPD
* Holding Time (USEPA SW846)
* Initial instrument calibration & continuing calibration
* GCMS Tune criteria
* Internal Standard Recovery

## Date Time Summary

| Sample | Date | Time | Sample Type |
|---|---|---|---|
| BFB 50ng | 6/1/04 | 15:57 | BFB Tune Check |
| 8260 5ug/Kg | 6/1/04 | 17:01 | Initial Calibration |
| 8260 10ug/Kg | 6/1/04 | 17:33 | Initial Calibration |
| 8260 20ug/Kg | 6/1/04 | 18:05 | Initial Calibration |
| 8260 50ug/Kg | 6/1/04 | 18:36 | Initial Calibration |
| 8260 100ug/Kg | 6/1/04 | 19:08 | Initial Calibration |
| BFB 50ng | 6/3/04 | 11:00 | BFB Tune Check |
| 8260 20ug/Kg | 6/3/04 | 12:03 | continuing calibration |
| 8260 1ug/Kg | 6/3/04 | 14:17 | low level check standard |
| method blank 50ul | 6/3/04 | 12:35 | method blank |
| 242358.01 5ul | 6/3/04 | 18:22 | sample |
| 242358.02 5ul | 6/3/04 | 18:59 | sample |
| 242358.03 5ul | 6/3/04 | 19:38 | sample |
| 242308.02 1g MS + 20 | 6/3/04 | 21:25 | matrix spike |
| 242308.02 1g MSD + 20 | 6/3/04 | 21:57 | matrix spike duplicate |
| reference 10ug/Kg | 6/3/04 | 22:30 | 2nd source reference standard |

# Lab Chronicle

| Laboratory Number | Date Collected | Date Received | Instrument Name | Sample | Date of Analysis | 8260 Holding Time (days) |
|---|---|---|---|---|---|---|
| 242358.01 | 6/1/04 | 6/2/04 | GCMSV#1 | BBD- WC-V13-VOA | 6/3/04 | 2 |
| 242358.02 | 6/1/04 | 6/2/04 | GCMSV#1 | BBD-WC-V11-VOA | 6/3/04 | 2 |
| 242358.03 | 6/1/04 | 6/2/04 | GCMSV#1 | BBD-WC-B2-Pit/Furn Pit | 6/3/04 | 2 |
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## Analytical Results Summary - 8260 - GCMSV#1

| Lab Number | Sample Wt/vol | Extract Volume | Aliquot Volume | Dilution Factor | Column |
|---|---|---|---|---|---|
| 242358.01 | 4.97g | 5ml | 5ul | 1000 | MTX-624, 60mX0.53mm |
| 242358.02 | 4.98g | 5ml | 5ul | 1000 | MTX-624, 60mX0.53mm |
| 242358.03 | 5.00g | 5ml | 5ul | 1000 | MTX-624, 60mX0.53mm |
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# MS/MSD Recovery Result Summary (VOC EPA 8260)

119

Instrument ID: GC/MS-V#1
Date of Analysis: 06/03/04
Sample Spiked: 242308.02 1g
Associated Samples:242358.01 -.03

| Compound | Unspiked Conc. (ug/Kg) | Spike Added (ug/Kg) | MS Conc. (ug/Kg) | MS Recovery (%) | MSD Conc. (ug/Kg) | MSD Recovery (%) | RPD* (%) | Recovery Limits (%) | RPD* Limits (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0 | 20 | 11.5 | 57 | 12.6 | 62 | 9 | 43 --> 162 | 22 | |
| Chlorodifluoromethane | 0 | 20 | 15.8 | 79 | 16.4 | 82 | 4 | 54 --> 162 | 25 | |
| Chloromethane | 0 | 20 | 17.4 | 87 | 17.4 | 87 | 0 | 63 --> 156 | 26 | |
| Vinyl chloride | 0 | 20 | 16.7 | 83 | 16.7 | 83 | 0 | 66 --> 149 | 25 | |
| Bromomethane | 0.6 | 20 | 25.1 | 123 | 24.7 | 121 | 2 | 56 --> 162 | 21 | |
| Chloroethane | 0 | 20 | 24.4 | 121 | 23.2 | 115 | 5 | 62 --> 151 | 19 | |
| Trichlorofluoromethane | 0 | 20 | 15.9 | 79 | 16.2 | 81 | 2 | 65 --> 145 | 17 | |
| Freon 113 | 2.8 | 20 | 20.4 | 88 | 20.3 | 87 | 1 | 68 --> 140 | 18 | |
| 1,1-Dichloroethene | 0 | 20 | 17.8 | 89 | 17.8 | 89 | 0 | 66 --> 148 | 18 | |
| Acetone | 2.5 | 100 | 135.8 | 133 | 133.4 | 131 | 2 | 26 --> 163 | 39 | |
| Methylene chloride | 1.8 | 20 | 21.5 | 99 | 21.0 | 96 | 2 | 61 --> 151 | 16 | |
| trans-1,2-Dichloroethene | 0.0 | 20 | 19.3 | 97 | 19.2 | 96 | 1 | 60 --> 150 | 16 | |
| tert-butyl methyl Ether | 0 | 20 | 19.9 | 100 | 19.4 | 97 | 3 | 75 --> 139 | 20 | |
| 1,1-Dichloroethane | 0 | 20 | 19.5 | 97 | 19.2 | 96 | 1 | 69 --> 150 | 16 | |
| 2,2-Dichloropropane | 0 | 20 | 17.2 | 86 | 17.0 | 85 | 1 | 73 --> 143 | 16 | |
| cis-1,2-Dichloroethene | 0 | 20 | 19.7 | 99 | 19.5 | 97 | 1 | 70 --> 150 | 16 | |
| Methyl ethyl ketone | 1 | 100 | 121.6 | 121 | 115.7 | 115 | 5 | 46 --> 148 | 39 | |
| Chloroform | 1.4 | 20 | 20.0 | 93 | 19.5 | 90 | 3 | 64 --> 149 | 11 | |
| Bromochloromethane | 0 | 20 | 20.8 | 102 | 20.1 | 98 | 4 | 73 --> 140 | 15 | |
| 1,1,1-Trichloroethane | 0 | 20 | 16.5 | 83 | 16.4 | 82 | 1 | 74 --> 143 | 14 | |
| 1,1-Dichloropropene | 0 | 20 | 22.9 | 114 | 21.2 | 106 | 7 | 64 --> 152 | 16 | |
| Carbon tetrachloride | 0 | 20 | 20.2 | 101 | 18.2 | 91 | 10 | 70 --> 155 | 18 | |
| Benzene | 0 | 20 | 25.4 | 127 | 24.5 | 122 | 4 | 70 --> 156 | 10 | |
| 1,2-Dichloroethane | 0 | 20 | 21.2 | 106 | 23.0 | 115 | 8 | 63 --> 155 | 14 | |
| Trichloroethene | 0 | 20 | 19.2 | 96 | 19.3 | 97 | 1 | 53 --> 169 | 12 | |
| 1,2-Dichloropropane | 0 | 20 | 21.2 | 106 | 21.1 | 106 | 1 | 79 --> 142 | 12 | |
| Bromodichloromethane | 0 | 20 | 19.3 | 96 | 19.2 | 96 | 0 | 68 --> 143 | 10 | |
| Dibromomethane | 0 | 20 | 20.7 | 104 | 20.5 | 103 | 1 | 64 --> 148 | 17 | |
| cis-1,3-Dichloropropene | 0 | 19.6 | 19.6 | 100 | 20.4 | 104 | 4 | 64 --> 137 | 13 | |
| Methyl isobutyl ketone | 0 | 100 | 117.7 | 118 | 114.6 | 115 | 3 | 58 --> 150 | 35 | |
| Toluene | 0 | 20 | 20.2 | 99 | 20.2 | 99 | 0 | 66 --> 149 | 12 | |
| trans-1,3-Dichloropropene | 0 | 20 | 20.0 | 100 | 20.0 | 100 | 0 | 55 --> 141 | 15 | |
| 1,1,2-Trichloroethane | 0 | 20 | 18.3 | 92 | 20.4 | 102 | 11 | 65 --> 154 | 20 | |
| Tetrachloroethene | 0 | 20 | 19.3 | 96 | 18.6 | 93 | 3 | 63 --> 147 | 15 | |
| 1,3-Dichloropropane | 0 | 20 | 21.3 | 106 | 21.3 | 106 | 0 | 67 --> 143 | 17 | |
| Dibromochloromethane | 0 | 20 | 20.2 | 99 | 20.1 | 99 | 0 | 67 --> 139 | 16 | |
| 1,2-Dibromoethane | 0 | 20 | 21.2 | 106 | 20.3 | 101 | 4 | 66 --> 144 | 16 | |

# MS/MSD Recovery Result Summary (VOC EPA 8260)

Instrument ID: GC/MS-V#1
Date of Analysis: 06/03/04
Sample Spiked: 242308.02 1g
Associated Samples:242358.01 - .03

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| Compound | Unspiked Conc. (ug/Kg) | Spike Added (ug/Kg) | MS Conc. (ug/Kg) | MS Recov. (%) | MSD Conc. (ug/Kg) | MSD Recov. (%) | RPD* (%) | Recovery Limits (%) | RPD* Limits (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 0 | 20 | 19.9 | 99 | 19.9 | 100 | 0 | 67 --> 144 | 14 | |
| 1,1,1,2-Tetrachloroethane | 0 | 20 | 19.5 | 97 | 19.6 | 98 | 1 | 80 --> 140 | 15 | |
| Ethyl Benzene | 0 | 20 | 19.3 | 97 | 19.6 | 98 | 1 | 70 --> 145 | 15 | |
| M+P-Xylene | 0 | 40 | 39.3 | 98 | 38.6 | 96 | 2 | 58 --> 148 | 19 | |
| O-Xylene | 0 | 20 | 20.1 | 100 | 19.6 | 98 | 2 | 74 --> 141 | 13 | |
| Styrene | 0 | 20 | 20.0 | 100 | 19.8 | 99 | 1 | 59 --> 145 | 13 | |
| Bromoform | 0 | 20 | 19.6 | 98 | 19.0 | 95 | 3 | 59 --> 142 | 18 | |
| Isopropylbenzene | 0 | 20 | 18.4 | 92 | 20.2 | 101 | 10 | 75 --> 146 | 15 | |
| 1,1,2,2-Tetrachloroethane | 0 | 20 | 20.2 | 101 | 19.9 | 100 | 1 | 54 --> 156 | 28 | |
| 1,2,3-Trichloropropane | 0 | 20 | 21.3 | 107 | 20.5 | 103 | 4 | 73 --> 144 | 25 | |
| Bromobenzene | 0 | 20 | 19.9 | 100 | 21.0 | 105 | 5 | 68 --> 146 | 15 | |
| n-Propylbenzene | 0 | 20 | 18.0 | 90 | 18.0 | 90 | 0 | 75 --> 138 | 17 | |
| p-Ethyltoluene | 0 | 20 | 16.9 | 84 | 16.8 | 84 | 0 | 69 --> 136 | 20 | |
| 2-Chlorotoluene | 0 | 20 | 18.3 | 92 | 19.2 | 96 | 5 | 73 --> 139 | 15 | |
| 1,3,5-Trimethylbenzene | 0 | 20 | 19.8 | 99 | 19.7 | 98 | 1 | 65 --> 158 | 14 | |
| 4-Chlorotoluene | 0 | 20 | 18.9 | 94 | 19.2 | 96 | 2 | 58 --> 148 | 19 | |
| tert-Butylbenzene | 0 | 20 | 18.3 | 92 | 18.8 | 94 | 2 | 79 --> 144 | 12 | |
| 1,2,4-Trimethylbenzene | 0 | 20 | 18.3 | 92 | 18.6 | 93 | 1 | 68 --> 142 | 20 | |
| sec-Butylbenzene | 0 | 20 | 17.5 | 88 | 18.0 | 90 | 2 | 77 --> 140 | 13 | |
| p-Isoproyltoluene | 0 | 20 | 18.2 | 91 | 18.3 | 91 | 1 | 79 --> 137 | 15 | |
| 1,3-Dichlorobenzene | 0 | 20 | 18.8 | 94 | 18.8 | 94 | 0 | 61 --> 147 | 14 | |
| 1,4-Dichlorobenzene | 0 | 20 | 18.3 | 92 | 19.3 | 96 | 5 | 50 --> 158 | 17 | |
| p-Diethylbenzene | 0 | 20 | 18.0 | 90 | 17.7 | 89 | 2 | 66 --> 148 | 24 | |
| n-Butylbenzene | 0 | 20 | 17.9 | 90 | 17.2 | 86 | 4 | 65 --> 144 | 19 | |
| 1,2-Dichlorobenzene | 0 | 20 | 21.3 | 106 | 19.8 | 99 | 7 | 63 --> 149 | 12 | |
| 1,2,4,5-Tetramethylbenzene | 0 | 20 | 21.0 | 105 | 17.7 | 89 | 17 | 46 --> 156 | 39 | |
| 1,2-Dibromo-3-chloropropane | 0 | 20 | 21.8 | 109 | 18.6 | 93 | 16 | 55 --> 141 | 27 | |
| 1,2,4-Tirchlorobenzene | 0 | 20 | 20.0 | 100 | 18.5 | 92 | 8 | 39 --> 152 | 19 | |
| Hexachlorobutadiene | 0 | 20 | 19.9 | 99 | 18.5 | 93 | 7 | 69 --> 143 | 17 | |
| Naphthalene | 0 | 20 | 21.5 | 106 | 19.1 | 95 | 12 | 10 --> 177 | 44 | |
| 1,2,3-Trichlorobenzene | 0 | 20 | 20.4 | 102 | 18.9 | 94 | 8 | 41 --> 149 | 20 | |

*RPD= Relative Percent Difference.

#- Value out of Range

# GC/MS-V#1 Surrogate Compound Recovery Results Summary (VOC EPA 8260)

| Surrogate Compound | QC Limits |
|---|---|
| 1,2-Dichloroethane-d4 | 63%-->119% |
| Toluene-d8 | 91% --> 108% |
| 4-Bromofluorobenzene | 73% -->119% |

| Date of Analysis | Sample | 1,2-Dichlorethane-d4 % Recovery | Toluene-d8 % Recovery | 4-Bromofluorobenzene % Recovery |
|---|---|---|---|---|
| 6/3/04 | 242358.01 5ul | 100 | 88 | 86 |
| 6/3/04 | 242358.02 5ul | 101 | 92 | 96 |
| 6/3/04 | 242358.03 5ul | 100 | 91 | 95 |
| | | | | |
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## Method Detection Limits and Practical Quantitation Limits for GC/MS-V#1 Using Precept Soil Module.

| Compound | MDL (ug/Kg) | PQL (ug/Kg) |
|---|---|---|
| Dichlorodifluoromethane | 0.30 | 1 |
| Chlorodifluoromethane | 0.46 | 1 |
| Chloromethane | 0.54 | 1 |
| Vinyl chloride | 0.42 | 1 |
| Bromomethane | 0.33 | 1 |
| Chloroethane | 0.56 | 1 |
| Trichlorofluoromethane | 0.37 | 1 |
| Freon | 0.36 | 1 |
| 1,1-Dichloroethene | 0.47 | 1 |
| Acetone | 2.54 | 10 |
| Methylene chloride | 0.63 | 1 |
| trans-1,2-Dichloroethene | 0.33 | 1 |
| Methyl,tert-butyl ether | 0.42 | 1 |
| 1,1-Dichloroethane | 0.39 | 1 |
| 2,2-Dichloropropane | 0.43 | 1 |
| cis-1,2-Dichloroethene | 0.37 | 1 |
| Methyl ethyl ketone | 1.75 | 10 |
| Bromochloromethane | 0.35 | 1 |
| Chloroform | 0.65 | 1 |
| 1,1,1-Trichloroethane | 0.31 | 1 |
| Carbon tetrachloride | 0.67 | 1 |
| 1,1-Dichloropropene | 0.52 | 1 |
| Benzene | 0.26 | 1 |
| 1,2-Dichloroethane | 0.32 | 1 |
| Trichloroethene | 0.32 | 1 |
| 1,2-Dichloropropane | 0.63 | 1 |
| Dibromomethane | 0.22 | 1 |
| Bromodichloromethane | 0.25 | 1 |
| cis-1,3-Dichloropropene | 0.22 | 1 |
| Methyl isobutyl ketone | 1.49 | 10 |
| Toluene | 0.30 | 1 |
| trans-1,3-Dichloropropene | 0.31 | 1 |
| 1,1,2-Trichloroethane | 0.26 | 1 |
| Tetrachloroethene | 0.20 | 1 |
| 1,3-Dichloropropane | 0.15 | 1 |
| Dibromochloromethane | 0.10 | 1 |
| 1,2-Dibromoethane | 0.14 | 1 |
| Chlorobenzene | 0.11 | 1 |
| Ethyl Benzene | 0.10 | 1 |
| 1,1,1,2-Tetrachloroethane | 0.12 | 1 |
| M + P-Xylene | 0.51 | 2 |
| O-Xylene | 0.16 | 1 |
| Styrene | 0.22 | 1 |
| Bromoform | 0.10 | 1 |
| Isopropylbenzene | 0.12 | 1 |
| Bromobenzene | 0.12 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.15 | 1 |
| n-Propylbenzene | 0.15 | 1 |
| 1,2,3-Trichloropropane | 0.51 | 1 |
| p-Ethyltoluene | 0.24 | 1 |
| 2-Chlorotoluene | 0.35 | 1 |
| 1,3,5-Trimethylbenzene | 0.33 | 1 |
| 4-Chlorotoluene | 0.53 | 1 |
| tert-Butylbenzene | 0.20 | 1 |
| 1,2,4-Trimethylbenzene | 0.13 | 1 |
| sec-Butylbenzene | 0.15 | 1 |
| p-Isoproyltoluene | 0.15 | 1 |
| 1,3-Dichlorobenzene | 0.14 | 1 |
| 1,4-Dichlorobenzene | 0.52 | 1 |
| p-Diethylbenzene | 0.21 | 1 |
| n-Butylbenzene | 0.18 | 1 |
| 1,2-Dichlorobenzene | 0.16 | 1 |
| 1,2,4,5-Tetramethylbenzene | 0.23 | 1 |
| 1,2-Dibromo-3-chloropropane | 0.09 | 1 |
| 1,2,4-Tirchlorobenzene | 0.30 | 1 |
| Hexachlorobutadiene | 0.13 | 1 |
| Naphthalene | 0.17 | 1 |
| 1,2,3-Trichlorobenzene | 0.28 | 1 |

Method Blank Summary -8260- GC/MS-V#1

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| Date of Analysis | Blank Volume | Blank Aliquot | Dilution Factor | Column |
|---|---|---|---|---|
| 6/3/04 | 5ml | 50ul | 100.0 | MTX-624, 60mX0.53mm |

Method blank associated with: 242358.01 - .03

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :
Quant Time: Jun 4 16:59 19104

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.53 | 168 | 6315250 | 50.00 ug/L | -0.03 |
| 26) 1,4-difluorobenzene | 9.00 | 114 | 5089619 | 50.00 ug/L | -0.03 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 3866076 | 50.00 ug/L | -0.02 |
| 57) 1,4-dichlorobenzene-d4 | 19.06 | 152 | 2866362 | 50.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | **%Recovery** |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 1993678 | 49.85 ug/L | 99.71% |
| 39) toluene-d8 | 11.90 | 98 | 4212440 | 43.90 ug/L | 87.80% |
| 43) 4-bromofluorobenzene | 16.94 | 174 | 2871446 | 43.03 ug/L | 86.06% |
| **Target Compounds** | | | | | **Qvalue** |
| 2) dichlorodifluoromethane | 0.00 | 85 | | Not Detected | |
| 3) chlorodifluoromethane | 1.85 | 51 | 2742 | 0.19 ug/L | 93 |
| 4) chloromethane | 2.15 | 50 | 1567 | 0.11 ug/L | 75 |
| 5) vinyl chloride | 2.01 | 62 | 5010 | 0.26 ug/L m | 85 |
| 6) bromomethane | 2.36 | 94 | 6337 | 0.44 ug/L m | 91 |
| 7) chloroethane | 0.00 | 64 | | Not Detected | |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) acrolein | 0.00 | 56 | | No Calib # | |
| 10) freon | 3.22 | 151 | 623832 | 14.04 ug/L | 99 |
| 11) 1,1-dichloroethene | 3.27 | 96 | 92180 | 3.49 ug/L | 93 |
| 12) acetone | 3.44 | 58 | 631103 | 134.82 ug/L m | 78 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) methylene chloride | 3.96 | 84 | 304370 | 9.31 ug/L | 96 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib # | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.04 | 63 | 145236 | 2.69 ug/L | 95 |
| 19) vinyl acetate | 5.08 | 43 | 50145 | 0.88 ug/L | 72 |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 6.27 | 96 | 25007 | 0.67 ug/L # | 80 |
| 22) methyl ethyl ketone | 6.41 | 72 | 48407 | 7.92 ug/L # | 72 |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 6.99 | 83 | 422392 | 5.98 ug/L m | 80 |
| 25) 1,1,1-trichloroethane | 7.19 | 97 | 110840 | 1.89 ug/L | 93 |
| 27) carbon tetrachloride | 7.51 | 82 | 2604 | 0.23 ug/L # | 1 |
| 28) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 29) benzene | 7.97 | 78 | 359778 | 6.37 ug/L m | 97 |
| 31) 1,2-dichloroethane | 8.24 | 62 | 50919 | 1.57 ug/L # | 45 |
| 32) trichloroethene | 9.42 | 95 | 850030 | 28.44 ug/L | 93 |
| 33) 1,2-dichloropropane | 9.94 | 63 | 2616 | 0.10 ug/L # | 41 |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.60 | 83 | 30705 | 0.60 ug/L # | 1 |
| 36) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :
Quant Time: Jun 4 16:59 19104

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.02 | 91 | 71547266 | 1022.08 ug/L m | 23 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 45) | tetrachloroethene | 12.99 | 166 | 960548 | 24.95 ug/L | 94 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 0.00 | 43 | | Not Detected | |
| 48) | dibromochloromethane | 13.65 | 129 | 11901 | 0.21 ug/L # | 76 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.74 | 112 | 20476194 | 355.86 ug/L | 94 |
| 51) | ethylbenzene | 14.93 | 91 | 18329142 | 246.21 ug/L | 97 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.16 | 106 | 25219901 | 853.00 ug/L | 82 |
| 54) | o-xylene | 15.89 | 106 | 8348375 | 274.59 ug/L | 89 |
| 55) | styrene | 15.96 | 104 | 23444248 | 447.61 ug/L | 98 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.59 | 105 | 1300114 | 16.26 ug/L | 99 |
| 59) | bromobenzene | 17.15 | 156 | 53749 | 1.31 ug/L # | 59 |
| 60) | 1,1,2,2-tetrachloroethane | 17.37 | 83 | 26886 | 0.50 ug/L # | 17 |
| 61) | n-propylbenzene | 17.35 | 91 | 2747424 | 31.85 ug/L | 99 |
| 62) | 1,2,3-trichloropropane | 0.00 | 110 | | Not Detected | |
| 63) | p-ethyltoluene | 17.54 | 105 | 10498626 | 148.85 ug/L | 99 |
| 64) | 2-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 65) | 1,3,5-trimethylbenzene | 17.71 | 105 | 3770462 | 53.71 ug/L | 98 |
| 66) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 67) | tert-butylbenzene | 18.28 | 119 | 1038331 | 14.56 ug/L | 86 |
| 68) | 1,2,4-trimethylbenzene | 18.40 | 105 | 9183948 | 135.12 ug/L | 97 |
| 69) | sec-butylbenzene | 18.66 | 105 | 418094 | 4.91 ug/L m | 15 |
| 70) | 4-isopropyltoluene | 18.97 | 119 | 2458043 | 29.17 ug/L m | 76 |
| 71) | 1,3-dichlorobenzene | 18.91 | 146 | 75401 | 1.36 ug/L | 88 |
| 72) | 1,4-dichlorobenzene | 19.09 | 146 | 269466 | 4.44 ug/L m | 99 |
| 73) | 1,2,3-trimethylbezene | 19.17 | 105 | 2895800 | 38.30 ug/L | 100 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 0.00 | 92 | | Not Detected | |
| 76) | 1,2-dichlorobenzene | 19.77 | 146 | 5647454 | 96.03 ug/L | 98 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.17 | 119 | 1494613 | 22.13 ug/L m | 88 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.72 | 180 | 11298636 | 215.32 ug/L | 97 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.15 | 128 | 9396260 | 108.19 ug/L | 99 |
| 82) | 1,2,3-trichlorobenzene | 23.63 | 180 | 4971389 | 94.56 ug/L | 98 |



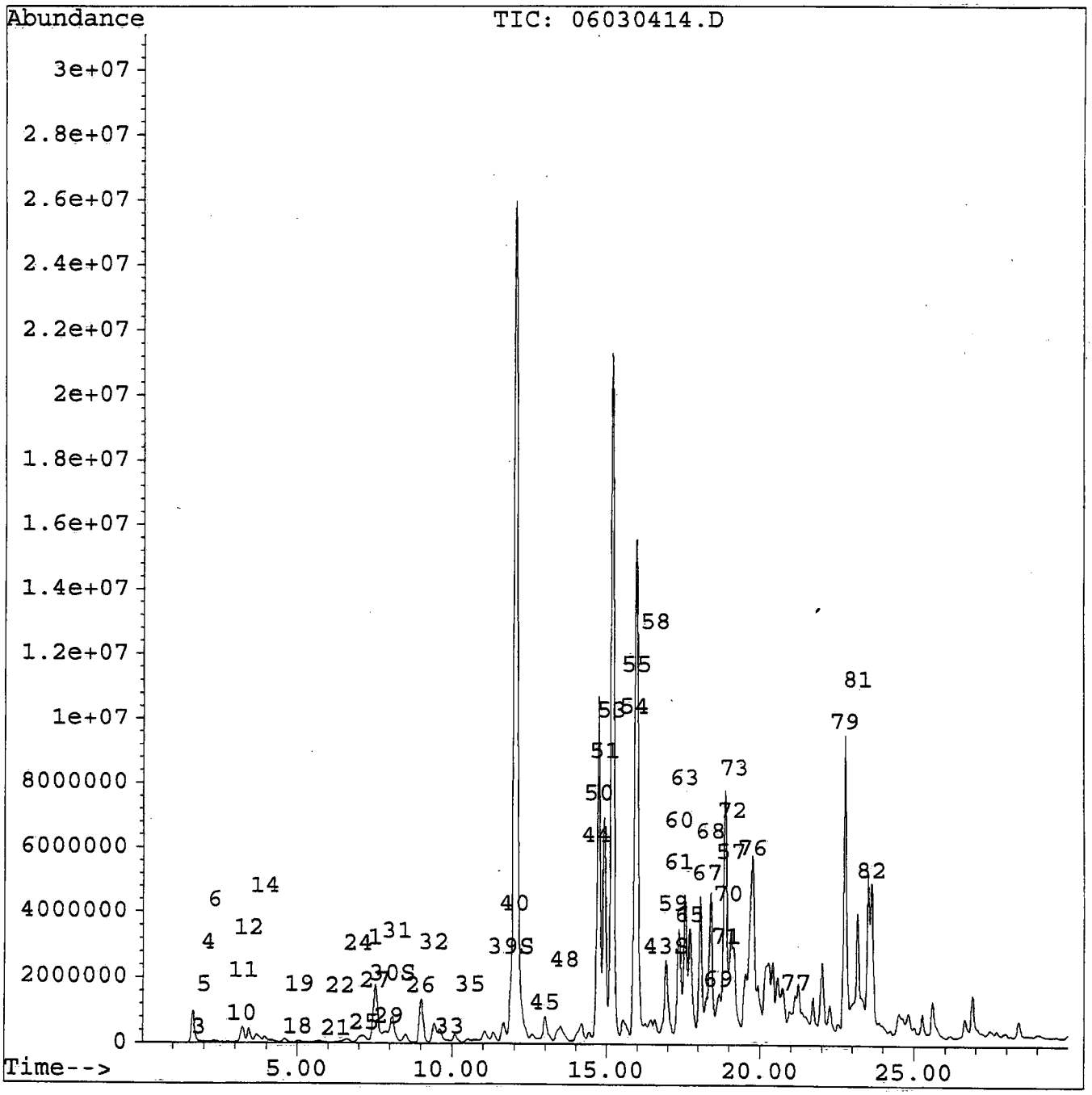
(#) = qualifier out of range (m) = manual integration
06030414.D VS060104.M Fri Jun 18 11:23:56 2004 5970- INSTRUMENT2

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030414.D
Acq On : 3 Jun 104 6:22 pm
Sample : 2358.01 5ul
Misc :
Quant Time: Jun 4 16:59 19104

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration



# Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :
Quant Time: Jun 4 15:17 19104

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.53 | 168 | 6632796 | 50.00 ug/L | -0.03 |
| 26) 1,4-difluorobenzene | 9.01 | 114 | 5411013 | 50.00 ug/L | -0.03 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 4466543 | 50.00 ug/L | -0.01 |
| 57) 1,4-dichlorobenzene-d4 | 19.06 | 152 | 3272187 | 50.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | **%Recovery** |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 2149598 | 50.56 ug/L | 101.12% |
| 39) toluene-d8 | 11.88 | 98 | 4689714 | 45.97 ug/L | 91.94% |
| 43) 4-bromofluorobenzene | 16.94 | 174 | 3390969 | 47.80 ug/L | 95.59% |
| **Target Compounds** | | | | | **Qvalue** |
| 2) dichlorodifluoromethane | 0.00 | 85 | | Not Detected | |
| 3) chlorodifluoromethane | 2.13 | 51 | 2546 | 0.17 ug/L | 77 |
| 4) chloromethane | 1.98 | 50 | 4900 | 0.34 ug/L | 77 |
| 5) vinyl chloride | 2.07 | 62 | 11149 | 0.55 ug/L | 91 |
| 6) bromomethane | 2.36 | 94 | 7513 | 0.50 ug/L m | 84 |
| 7) chloroethane | 2.47 | 64 | 1695 | 0.17 ug/L m | 24 |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) acrolein | 0.00 | 56 | | No Calib # | |
| 10) freon | 3.22 | 151 | 653842 | 14.01 ug/L | 99 |
| 11) 1,1-dichloroethene | 3.26 | 96 | 83325 | 3.01 ug/L | 95 |
| 12) acetone | 3.44 | 58 | 565832 | 115.09 ug/L m | 84 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) methylene chloride | 3.96 | 84 | 318417 | 9.27 ug/L | 97 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib # | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.05 | 63 | 135677 | 2.39 ug/L | 96 |
| 19) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 6.25 | 96 | 16146 | 0.41 ug/L m | 93 |
| 22) methyl ethyl ketone | 6.42 | 72 | 50786 | 7.92 ug/L m | 93 |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 7.01 | 83 | 149757 | 2.02 ug/L m | 1 |
| 25) 1,1,1-trichloroethane | 7.19 | 97 | 97940 | 1.59 ug/L | 92 |
| 27) carbon tetrachloride | 7.48 | 82 | 7123 | 0.59 ug/L # | 1 |
| 28) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 29) benzene | 7.99 | 78 | 353917 | 5.90 ug/L m | 97 |
| 31) 1,2-dichloroethane | 8.25 | 62 | 78368 | 2.27 ug/L | 86 |
| 32) trichloroethene | 9.42 | 95 | 1021526 | 32.15 ug/L | 93 |
| 33) 1,2-dichloropropane | 9.98 | 63 | 8574 | 0.32 ug/L | 70 |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.59 | 83 | 34922 | 0.64 ug/L # | 1 |
| 36) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :
Quant Time: Jun 4 15:17 19104

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.01 | 91 | 70960224 | 953.48 ug/L # | 69 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 45) | tetrachloroethene | 12.99 | 166 | 959815 | 21.58 ug/L | 94 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 0.00 | 43 | | Not Detected | |
| 48) | dibromochloromethane | 13.67 | 129 | 18754 | 0.29 ug/L m | 93 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.73 | 112 | 24924041 | 374.93 ug/L | 98 |
| 51) | ethylbenzene | 14.91 | 91 | 19638143 | 228.33 ug/L | 96 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.16 | 106 | 25345879 | 742.01 ug/L | 82 |
| 54) | o-xylene | 15.90 | 106 | 8400070 | 239.15 ug/L | 89 |
| 55) | styrene | 15.96 | 104 | 26177105 | 432.60 ug/L | 97 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.57 | 105 | 1340686 | 14.69 ug/L | 99 |
| 59) | bromobenzene | 17.14 | 156 | 52992 | 1.13 ug/L # | 68 |
| 60) | 1,1,2,2-tetrachloroethane | 0.00 | 83 | | Not Detected | |
| 61) | n-propylbenzene | 17.36 | 91 | 2635922 | 26.77 ug/L | 97 |
| 62) | 1,2,3-trichloropropane | 0.00 | 110 | | Not Detected | |
| 63) | p-ethyltoluene | 17.54 | 105 | 10300673 | 127.93 ug/L | 99 |
| 64) | 2-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 65) | 1,3,5-trimethylbenzene | 17.71 | 105 | 3642377 | 45.45 ug/L | 99 |
| 66) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 67) | tert-butylbenzene | 18.27 | 119 | 1758576 | 21.60 ug/L | 93 |
| 68) | 1,2,4-trimethylbenzene | 18.40 | 105 | 9228028 | 118.93 ug/L | 97 |
| 69) | sec-butylbenzene | 18.68 | 105 | 424368 | 4.36 ug/L m | 18 |
| 70) | 4-isopropyltoluene | 18.97 | 119 | 2295964 | 23.86 ug/L m | 79 |
| 71) | 1,3-dichlorobenzene | 18.93 | 146 | 101617 | 1.60 ug/L | 88 |
| 72) | 1,4-dichlorobenzene | 19.10 | 146 | 325711 | 4.70 ug/L m | 99 |
| 73) | 1,2,3-trimethylbezene | 19.17 | 105 | 2783717 | 32.25 ug/L | 99 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 0.00 | 92 | | Not Detected | |
| 76) | 1,2-dichlorobenzene | 19.77 | 146 | 8305111 | 123.71 ug/L | 97 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.16 | 119 | 1544867 | 20.04 ug/L m | 88 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.72 | 180 | 12661939 | 211.37 ug/L | 97 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.16 | 128 | 10635210 | 107.26 ug/L | 98 |
| 82) | 1,2,3-trichlorobenzene | 23.63 | 180 | 5490175 | 91.48 ug/L | 99 |



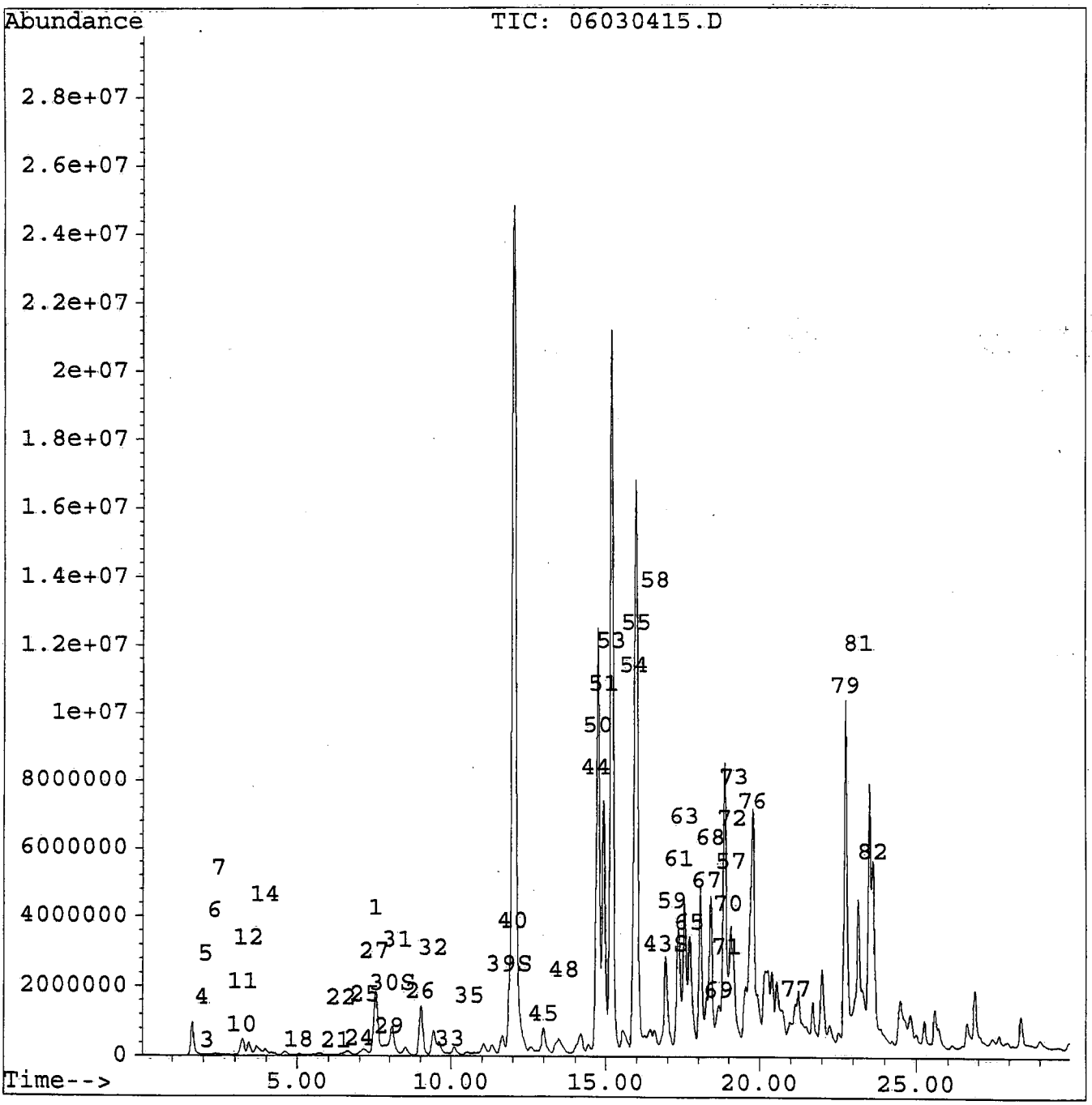
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030415.D
Acq On : 3 Jun 104 6:59 pm
Sample : 2358.02 5ul
Misc :
Quant Time: Jun 4 15:17 19104

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration



# Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030416.D
Acq On : 3 Jun 104 7:38 pm
Sample : 2358.03 5ul
Misc :
Quant Time: Jun 4 15:41 19104

Vial: 16
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.53 | 168 | 6321669 | 50.00 ug/L | -0.03 |
| 26) 1,4-difluorobenzene | 9.02 | 114 | 5438464 | 50.00 ug/L | -0.02 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 4380044 | 50.00 ug/L | -0.02 |
| 57) 1,4-dichlorobenzene-d4 | 19.06 | 152 | 3240052 | 50.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | **%Recovery** |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 2129255 | 49.83 ug/L | 99.66% |
| 39) toluene-d8 | 11.90 | 98 | 4685802 | 45.70 ug/L | 91.40% |
| 43) 4-bromofluorobenzene | 16.94 | 174 | 3377293 | 47.36 ug/L | 94.73% |
| **Target Compounds** | | | | | **Qvalue** |
| 2) dichlorodifluoromethane | 0.00 | 85 | | Not Detected | |
| 3) chlorodifluoromethane | 1.84 | 51 | 1544 | 0.11 ug/L | 100 |
| 4) chloromethane | 2.21 | 50 | 1790 | 0.13 ug/L | 96 |
| 5) vinyl chloride | 2.04 | 62 | 19886 | 1.02 ug/L m | 80 |
| 6) bromomethane | 2.35 | 94 | 10318 | 0.71 ug/L m | 83 |
| 7) chloroethane | 2.45 | 64 | 18957 | 1.95 ug/L m | 96 |
| 8) trichlorofluoromethane | 2.67 | 101 | 27592 | 0.48 ug/L | 87 |
| 9) acrolein | 0.00 | 56 | | No Calib # | |
| 10) freon | 3.24 | 151 | 515094 | 11.58 ug/L | 100 |
| 11) 1,1-dichloroethene | 3.27 | 96 | 10488 | 0.40 ug/L m | 72 |
| 12) acetone | 3.42 | 58 | 20529 | 4.38 ug/L m | 86 |
| 13) carbon disulfide | 3.51 | 76 | 8116 | 0.12 ug/L | 80 |
| 14) methylene chloride | 3.96 | 84 | 427339 | 13.06 ug/L | 96 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib # | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.05 | 63 | 397529 | 7.34 ug/L | 97 |
| 19) vinyl acetate | 5.10 | 43 | 30119 | 0.53 ug/L | 74 |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 6.27 | 96 | 301866 | 8.11 ug/L | 92 |
| 22) methyl ethyl ketone | 6.44 | 72 | 13027 | 2.13 ug/L # | 76 |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 7.01 | 83 | 290002 | 4.10 ug/L m | 63 |
| 25) 1,1,1-trichloroethane | 7.22 | 97 | 5517944 | 94.14 ug/L | 90 |
| 27) carbon tetrachloride | 7.50 | 82 | 3091 | 0.26 ug/L # | 1 |
| 28) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 29) benzene | 7.99 | 78 | 219204 | 3.63 ug/L | 94 |
| 31) 1,2-dichloroethane | 8.22 | 62 | 30842 | 0.89 ug/L # | 45 |
| 32) trichloroethene | 9.42 | 95 | 1259986 | 39.45 ug/L | 95 |
| 33) 1,2-dichloropropane | 9.97 | 63 | 4457 | 0.17 ug/L # | 62 |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.59 | 83 | 31633 | 0.58 ug/L | 83 |
| 36) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030416.D
Acq On : 3 Jun 104 7:38 pm
Sample : 2358.03 5ul
Misc :
Quant Time: Jun 4 15:41 19104

Vial: 16
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.00 | 91 | 60916328 | 814.39 ug/L # | 79 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 45) | tetrachloroethene | 12.99 | 166 | 1173252 | 26.90 ug/L | 97 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 0.00 | 43 | | Not Detected | |
| 48) | dibromochloromethane | 13.66 | 129 | 15499 | 0.24 ug/L | 80 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.74 | 112 | 107827 | 1.65 ug/L # | 80 |
| 51) | ethylbenzene | 14.93 | 91 | 12706970 | 150.66 ug/L | 99 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.16 | 106 | 13806613 | 412.18 ug/L | 91 |
| 54) | o-xylene | 15.89 | 106 | 4570979 | 132.71 ug/L | 91 |
| 55) | styrene | 15.96 | 104 | 7247126 | 122.13 ug/L | 99 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.57 | 105 | 1380942 | 15.28 ug/L | 100 |
| 59) | bromobenzene | 0.00 | 156 | | Not Detected | |
| 60) | 1,1,2,2-tetrachloroethane | 17.34 | 83 | 39428 | 0.65 ug/L | 87 |
| 61) | n-propylbenzene | 17.36 | 91 | 2902970 | 29.77 ug/L | 99 |
| 62) | 1,2,3-trichloropropane | 0.00 | 110 | | Not Detected | |
| 63) | p-ethyltoluene | 17.56 | 105 | 10998161 | 137.95 ug/L | 98 |
| 64) | 2-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 65) | 1,3,5-trimethylbenzene | 17.71 | 105 | 3091079 | 38.95 ug/L | 93 |
| 66) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 67) | tert-butylbenzene | 0.00 | 119 | | Not Detected | |
| 68) | 1,2,4-trimethylbenzene | 18.40 | 105 | 6994704 | 91.04 ug/L | 100 |
| 69) | sec-butylbenzene | 18.68 | 105 | 216780 | 2.25 ug/L m | 93 |
| 70) | 4-isopropyltoluene | 18.94 | 119 | 186798 | 1.96 ug/L m | 80 |
| 71) | 1,3-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 72) | 1,4-dichlorobenzene | 19.11 | 146 | 34789 | 0.51 ug/L m | 98 |
| 73) | 1,2,3-trimethylbezene | 19.19 | 105 | 2267554 | 26.53 ug/L | 100 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 0.00 | 92 | | Not Detected | |
| 76) | 1,2-dichlorobenzene | 19.79 | 146 | 188549 | 2.84 ug/L | 94 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.18 | 119 | 586472 | 7.68 ug/L m | 81 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.75 | 180 | 435171 | 7.34 ug/L | 96 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.18 | 128 | 3630238 | 36.98 ug/L | 100 |
| 82) | 1,2,3-trichlorobenzene | 23.65 | 180 | 247870 | 4.17 ug/L | 96 |



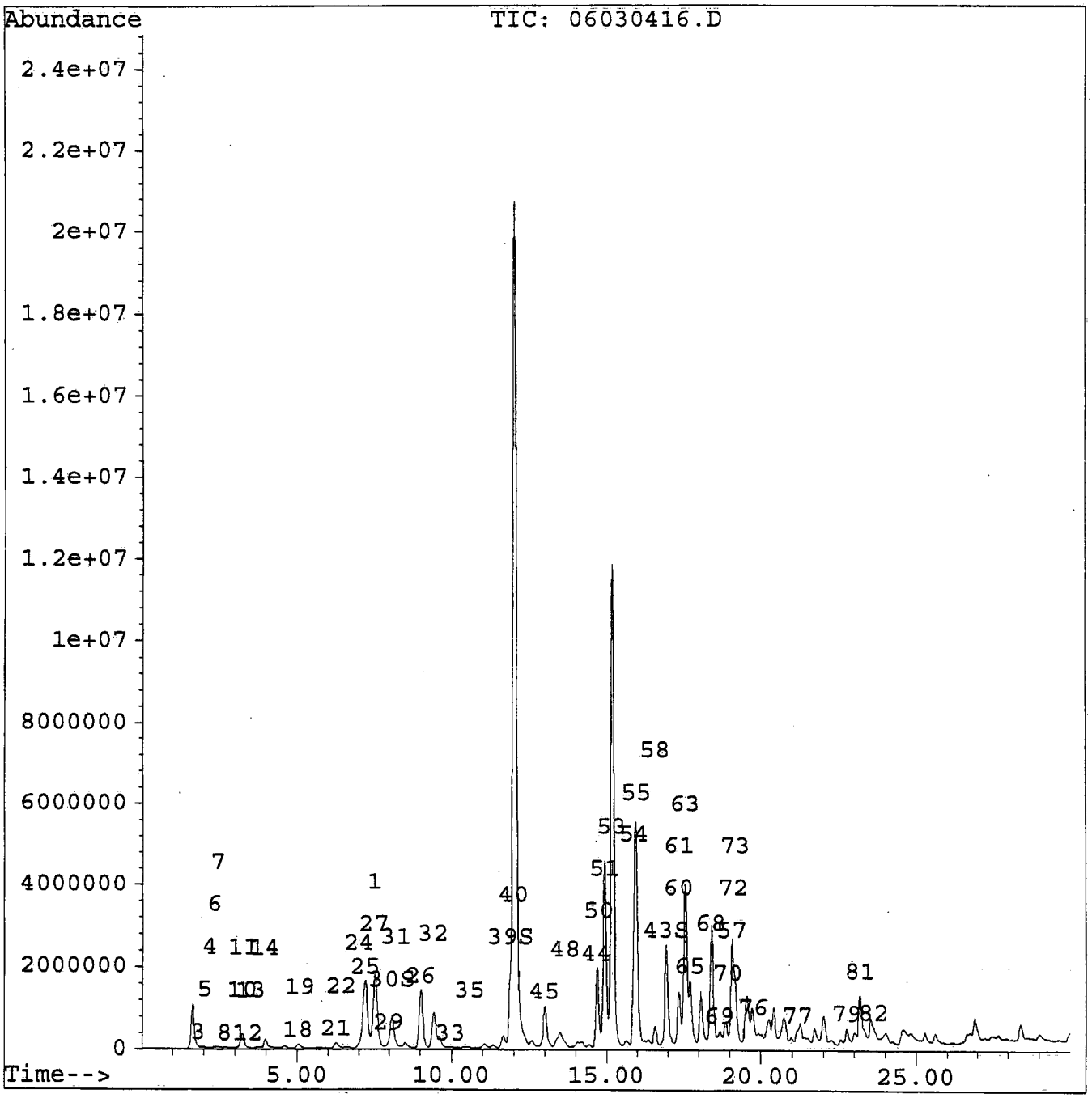
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060304\06030416.D
Acq On : 3 Jun 104 7:38 pm
Sample : 2358.03 5ul
Misc :
Quant Time: Jun 4 15:41 19104

Vial: 16
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration




132

VOCs BY EPA METHOD 8260 - QC DELIVERABLES:
FOR ECOTEST SAMPLE Nos. 242358.01-.03

**Conformance/Nonconformance Summary**

QC criteria were met for the following unless stated otherwise:

* Method blank
* MDL study
* Surrogate recoveries
* Matrix Spike & Matrix Spike Duplicate RPD
* Holding Time (USEPA SW846)
* Initial instrument calibration & continuing calibration
* GCMS Tune criteria
* Internal Standard Recovery

## Date Time Summary

| Sample | Date | Time | Sample Type |
|---|---|---|---|
| BFB 50ng | 6/1/04 | 15:57 | BFB Tune Check |
| 8260 5ug/Kg | 6/1/04 | 17:01 | Initial Calibration |
| 8260 10ug/Kg | 6/1/04 | 17:33 | Initial Calibration |
| 8260 20ug/Kg | 6/1/04 | 18:05 | Initial Calibration |
| 8260 50ug/Kg | 6/1/04 | 18:36 | Initial Calibration |
| 8260 100ug/Kg | 6/1/04 | 19:08 | Initial Calibration |
| BFB 50ng | 6/4/04 | 12:13 | BFB Tune Check |
| 8260 20ug/Kg | 6/4/04 | 12:45 | continuing calibration |
| 8260 1ug/Kg | 6/4/04 | 14:20 | low level check standard |
| method blank 50ul | 6/4/04 | 16:27 | method blank |
| 242358.01 0.2ul | 6/4/04 | 17:36 | sample |
| 242358.02 0.2ul | 6/4/04 | 18:07 | sample |
| 242358.03 0.25ul | 6/4/04 | 18:39 | sample |
| 242358.03 1ul | 6/4/04 | 19:11 | sample |
| 242358.02 1ul | 6/4/04 | 19:49 | sample |
| 242358.01 1ul | 6/4/04 | 20:28 | sample |
| 242332.04 1g MS + 20 | 6/4/04 | 22:11 | matrix spike |
| 242332.04 1g MSD + 20 | 6/4/04 | 22:44 | matrix spike duplicate |
| reference 10ug/Kg | 6/4/04 | 23:16 | 2nd source reference standard |

# Lab Chronicle

| Laboratory Number | Date Collected | Date Received | Instrument Name | Sample | Date of Analysis | 8260 Holding Time (days) |
|---|---|---|---|---|---|---|
| 242358.01 | 6/1/04 | 6/2/04 | GCMSV#1 | BBD- WC-V13-VOA | 6/4/04 | 3 |
| 242358.02 | 6/1/04 | 6/2/04 | GCMSV#1 | BBD-WC-V11-VOA | 6/4/04 | 3 |
| 242358.03 | 6/1/04 | 6/2/04 | GCMSV#1 | BBD-WC-B2-Pit/Furn Pit | 6/4/04 | 3 |
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## Analytical Results Summary - 8260 - GCMSV#1

| Lab Number | Sample Wt/vol | Extract Volume | Aliquot Volume | Dilution Factor | Column |
|---|---|---|---|---|---|
| 242358.01 | 4.97g | 5ml | 0.2ul | 25000 | MTX-624, 60mX0.53mm |
| 242358.02 | 4.98g | 5ml | 0.2ul | 25000 | MTX-624, 60mX0.53mm |
| 242358.03 | 5.00g | 5ml | 0.25ul | 20000 | MTX-624, 60mX0.53mm |
| 242358.01 | 4.97g | 5ml | 0.1ul | 5000 | MTX-624, 60mX0.53mm |
| 242358.02 | 4.98g | 5ml | 0.1ul | 5000 | MTX-624, 60mX0.53mm |
| 242358.03 | 5.00g | 5ml | 0.1ul | 5000 | MTX-624, 60mX0.53mm |
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# MS/MSD Recovery Result Summary (VOC EPA 8260)

138

Instrument ID: GC/MS-V#1
Date of Analysis: 06/04/04
Sample Spiked: 242332.04 1g
Associated Samples:242358.01 -.03

| Compound | Unspiked Conc. (ug/Kg) | Spike Added (ug/Kg) | MS Conc. (ug/Kg) | MS Recovery (%) | MSD Conc. (ug/Kg) | MSD Recovery (%) | RPD* (%) | Recovery Limits (%) | RPD* Limits (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0 | 20 | 15.2 | 75 | 15.7 | 78 | 3 | 43 --> 162 | 22 | |
| Chlorodifluoromethane | 0 | 20 | 13.6 | 67 | 14.5 | 72 | 6 | 54 --> 162 | 25 | |
| Chloromethane | 0 | 20 | 18.1 | 90 | 18.5 | 93 | 2 | 63 --> 156 | 26 | |
| Vinyl chloride | 0 | 20 | 16.4 | 82 | 16.9 | 84 | 3 | 66 --> 149 | 25 | |
| Bromomethane | 0 | 20 | 23.3 | 115 | 24.5 | 121 | 5 | 56 --> 162 | 21 | |
| Chloroethane | 0 | 20 | 24.1 | 120 | 24.3 | 121 | 1 | 62 --> 151 | 19 | |
| Trichlorofluoromethane | 0 | 20 | 15.8 | 79 | 16.4 | 82 | 4 | 65 --> 145 | 17 | |
| Freon 113 | 3 | 20 | 20.4 | 87 | 20.8 | 90 | 2 | 68 --> 140 | 18 | |
| 1,1-Dichloroethene | 0 | 20 | 15.8 | 79 | 16.5 | 83 | 5 | 66 --> 148 | 18 | |
| Acetone | 2 | 100 | 125.1 | 123 | 139.9 | 137 | 11 | 26 --> 163 | 39 | |
| Methylene chloride | 1 | 20 | 18.9 | 88 | 19.6 | 91 | 4 | 61 --> 151 | 16 | |
| trans-1,2-Dichloroethene | 0 | 20 | 16.9 | 84 | 17.4 | 87 | 3 | 60 --> 150 | 16 | |
| tert-butyl methyl Ether | 0 | 20 | 17.8 | 89 | 18.3 | 92 | 3 | 75 --> 139 | 20 | |
| 1,1-Dichloroethane | 0 | 20 | 18.2 | 91 | 18.7 | 94 | 3 | 69 --> 150 | 16 | |
| 2,2-Dichloropropane | 0 | 20 | 16.1 | 81 | 16.5 | 82 | 2 | 73 --> 143 | 16 | |
| cis-1,2-Dichloroethene | 0 | 20 | 17.0 | 85 | 18.1 | 90 | 6 | 70 --> 150 | 16 | |
| Methyl ethyl ketone | 0 | 100 | 111.0 | 111 | 120.0 | 120 | 8 | 46 --> 148 | 39 | |
| Chloroform | 1 | 20 | 18.4 | 86 | 18.7 | 88 | 2 | 64 --> 149 | 11 | |
| Bromochloromethane | 0 | 20 | 19.0 | 95 | 19.3 | 96 | 1 | 73 --> 140 | 15 | |
| 1,1,1-Trichloroethane | 0 | 20 | 15.6 | 78 | 16.0 | 80 | 2 | 74 --> 143 | 14 | |
| 1,1-Dichloropropene | 0 | 20 | 21.5 | 107 | 21.3 | 106 | 1 | 64 --> 152 | 16 | |
| Carbon tetrachloride | 0 | 20 | 17.5 | 87 | 17.0 | 85 | 2 | 70 --> 155 | 18 | |
| Benzene | 0 | 20 | 22.4 | 112 | 22.1 | 111 | 1 | 70 --> 156 | 10 | |
| 1,2-Dichloroethane | 0 | 20 | 20.9 | 105 | 20.9 | 105 | 0 | 63 --> 155 | 14 | |
| Trichloroethene | 0 | 20 | 19.3 | 96 | 19.7 | 98 | 2 | 53 --> 169 | 12 | |
| 1,2-Dichloropropane | 0 | 20 | 20.3 | 101 | 20.0 | 100 | 2 | 79 --> 142 | 12 | |
| Bromodichloromethane | 0 | 20 | 19.8 | 97 | 19.9 | 97 | 0 | 68 --> 143 | 10 | |
| Dibromomethane | 0 | 20 | 20.5 | 102 | 21.0 | 105 | 2 | 64 --> 148 | 17 | |
| cis-1,3-Dichloropropene | 0 | 19.6 | 19.2 | 98 | 19.3 | 98 | 0 | 64 --> 137 | 13 | |
| Methyl isobutyl ketone | 0 | 100 | 98.6 | 99 | 102.0 | 102 | 3 | 58 --> 150 | 35 | |
| Toluene | 1 | 20 | 20.7 | 100 | 20.8 | 100 | 0 | 66 --> 149 | 12 | |
| trans-1,3-Dichloropropene | 0 | 20 | 19.2 | 96 | 19.3 | 96 | 0 | 55 --> 141 | 15 | |
| 1,1,2-Trichloroethane | 0 | 20 | 20.2 | 101 | 20.1 | 100 | 0 | 65 --> 154 | 20 | |
| Tetrachloroethene | 0 | 20 | 19.7 | 99 | 19.6 | 98 | 1 | 63 --> 147 | 15 | |
| 1,3-Dichloropropane | 0 | 20 | 20.3 | 101 | 20.4 | 102 | 0 | 67 --> 143 | 17 | |
| Dibromochloromethane | 0 | 20 | 20.2 | 100 | 20.4 | 101 | 1 | 67 --> 139 | 16 | |
| 1,2-Dibromoethane | 0 | 20 | 20.1 | 101 | 20.6 | 103 | 2 | 66 --> 144 | 16 | |

# MS/MSD Recovery Result Summary (VOC EPA 8260)

Instrument ID: GC/MS-V#1
Date of Analysis: 06/04/04
Sample Spiked: 242332.04 1g
Associated Samples:242358.01 - .03

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| Compound | Unspiked Conc. (ug/Kg) | Spike Added (ug/Kg) | MS Conc. (ug/Kg) | MS Recov. (%) | MSD Conc. (ug/Kg) | MSD Recov. (%) | RPD* (%) | Recovery Limits (%) | RPD* Limits (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 0 | 20 | 19.9 | 99 | 20.2 | 101 | 2 | 67 --> 144 | 14 | |
| 1,1,1,2-Tetrachloroethane | 0 | 20 | 20.3 | 102 | 20.2 | 101 | 0 | 80 --> 140 | 15 | |
| Ethyl Benzene | 0 | 20 | 19.7 | 97 | 19.9 | 98 | 1 | 70 --> 145 | 15 | |
| M+P-Xylene | 1 | 40 | 40.2 | 98 | 39.1 | 95 | 3 | 58 --> 148 | 19 | |
| O-Xylene | 0 | 20 | 20.5 | 101 | 20.5 | 101 | 0 | 74 --> 141 | 13 | |
| Styrene | 0 | 20 | 19.3 | 96 | 19.8 | 98 | 2 | 59 --> 145 | 13 | |
| Bromoform | 0 | 20 | 18.7 | 94 | 19.3 | 96 | 3 | 59 --> 142 | 18 | |
| Isopropylbenzene | 0 | 20 | 19.5 | 97 | 20.2 | 101 | 4 | 75 --> 146 | 15 | |
| 1,1,2,2-Tetrachloroethane | 0 | 20 | 19.5 | 97 | 20.3 | 102 | 4 | 54 --> 156 | 28 | |
| 1,2,3-Trichloropropane | 0 | 20 | 20.1 | 100 | 21.2 | 106 | 6 | 73 --> 144 | 25 | |
| Bromobenzene | 0 | 20 | 20.4 | 102 | 20.6 | 103 | 1 | 68 --> 146 | 15 | |
| n-Propylbenzene | 0 | 20 | 18.8 | 93 | 18.8 | 94 | 0 | 75 --> 138 | 17 | |
| p-Ethyltoluene | 1 | 20 | 18.5 | 90 | 17.9 | 87 | 3 | 69 --> 136 | 20 | |
| 2-Chlorotoluene | 0 | 20 | 18.9 | 94 | 20.2 | 101 | 7 | 73 --> 139 | 15 | |
| 1,3,5-Trimethylbenzene | 0 | 20 | 21.4 | 106 | 21.8 | 108 | 2 | 65 --> 158 | 14 | |
| 4-Chlorotoluene | 0 | 20 | 19.3 | 96 | 19.3 | 97 | 0 | 58 --> 148 | 19 | |
| tert-Butylbenzene | 0 | 20 | 20.1 | 100 | 20.0 | 100 | 0 | 79 --> 144 | 12 | |
| 1,2,4-Trimethylbenzene | 1 | 20 | 20.4 | 98 | 20.4 | 98 | 0 | 68 --> 142 | 20 | |
| sec-Butylbenzene | 0 | 20 | 19.1 | 95 | 19.2 | 96 | 1 | 77 --> 140 | 13 | |
| p-Isoproyltoluene | 0 | 20 | 19.6 | 97 | 19.7 | 97 | 1 | 79 --> 137 | 15 | |
| 1,3-Dichlorobenzene | 0 | 20 | 19.3 | 96 | 19.0 | 95 | 1 | 61 --> 147 | 14 | |
| 1,4-Dichlorobenzene | 0 | 20 | 18.4 | 92 | 20.3 | 101 | 10 | 50 --> 158 | 17 | |
| p-Diethylbenzene | 0 | 20 | 18.8 | 94 | 19.3 | 97 | 3 | 66 --> 148 | 24 | |
| n-Butylbenzene | 0 | 20 | 17.8 | 89 | 18.2 | 91 | 2 | 65 --> 144 | 19 | |
| 1,2-Dichlorobenzene | 0 | 20 | 20.0 | 100 | 20.3 | 102 | 2 | 63 --> 149 | 12 | |
| 1,2,4,5-Tetramethylbenzene | 0 | 20 | 19.5 | 97 | 20.0 | 99 | 3 | 46 --> 156 | 39 | |
| 1,2-Dibromo-3-chloropropane | 0 | 20 | 17.4 | 86 | 19.4 | 96 | 11 | 55 --> 141 | 27 | |
| 1,2,4-Tirchlorobenzene | 0 | 20 | 17.1 | 86 | 18.2 | 91 | 6 | 39 --> 152 | 19 | |
| Hexachlorobutadiene | 0 | 20 | 17.1 | 86 | 17.2 | 86 | 0 | 69 --> 143 | 17 | |
| Naphthalene | 0 | 20 | 17.0 | 83 | 18.7 | 91 | 10 | 10 --> 177 | 44 | |
| 1,2,3-Trichlorobenzene | 0 | 20 | 16.8 | 83 | 17.7 | 88 | 5 | 41 --> 149 | 20 | |

*RPD= Relative Percent Difference.

#- Value out of Range

# GC/MS-V#1 Surrogate Compound Recovery Results Summary (VOC EPA 8260)

| Surrogate Compound | QC Limits |
|---|---|
| 1,2-Dichloroethane-d4 | 63%-->119% |
| Toluene-d8 | 91% --> 108% |
| 4-Bromofluorobenzene | 73% -->119% |

| Date of Analysis | Sample | 1,2-Dichlorethane-d4 % Recovery | Toluene-d8 % Recovery | 4-Bromofluorobenzene % Recovery |
|---|---|---|---|---|
| 6/4/04 | 242358.01 0.2ul | 101 | 95 | 94 |
| 6/4/04 | 242358.02 0.2ul | 100 | 97 | 93 |
| 6/4/04 | 242358.03 0.25ul | 99 | 87 | 85 |
| 6/4/04 | 242358.03 1ul | 100 | 97 | 91 |
| 6/4/04 | 242358.02 1ul | 99 | 98 | 95 |
| 6/4/04 | 242358.01 1ul | 95 | 96 | 96 |
| | | | | |
| | | | | |

## Method Detection Limits and Practical Quantitation Limits for GC/MS-V#1 Using Precept Soil Module.

| Compound | MDL (ug/Kg) | PQL (ug/Kg) |
|---|---|---|
| Dichlorodifluoromethane | 0.30 | 1 |
| Chlorodifluoromethane | 0.46 | 1 |
| Chloromethane | 0.54 | 1 |
| Vinyl chloride | 0.42 | 1 |
| Bromomethane | 0.33 | 1 |
| Chloroethane | 0.56 | 1 |
| Trichlorofluoromethane | 0.37 | 1 |
| Freon | 0.36 | 1 |
| 1,1-Dichloroethene | 0.47 | 1 |
| Acetone | 2.54 | 10 |
| Methylene chloride | 0.63 | 1 |
| trans-1,2-Dichloroethene | 0.33 | 1 |
| Methyl,tert-butyl ether | 0.42 | 1 |
| 1,1-Dichloroethane | 0.39 | 1 |
| 2,2-Dichloropropane | 0.43 | 1 |
| cis-1,2-Dichloroethene | 0.37 | 1 |
| Methyl ethyl ketone | 1.75 | 10 |
| Bromochloromethane | 0.35 | 1 |
| Chloroform | 0.65 | 1 |
| 1,1,1-Trichloroethane | 0.31 | 1 |
| Carbon tetrachloride | 0.67 | 1 |
| 1,1-Dichloropropene | 0.52 | 1 |
| Benzene | 0.26 | 1 |
| 1,2-Dichloroethane | 0.32 | 1 |
| Trichloroethene | 0.32 | 1 |
| 1,2-Dichloropropane | 0.63 | 1 |
| Dibromomethane | 0.22 | 1 |
| Bromodichloromethane | 0.25 | 1 |
| cis-1,3-Dichloropropene | 0.22 | 1 |
| Methyl isobutyl ketone | 1.49 | 10 |
| Toluene | 0.30 | 1 |
| trans-1,3-Dichloropropene | 0.31 | 1 |
| 1,1,2-Trichloroethane | 0.26 | 1 |
| Tetrachloroethene | 0.20 | 1 |
| 1,3-Dichloropropane | 0.15 | 1 |
| Dibromochloromethane | 0.10 | 1 |
| 1,2-Dibromoethane | 0.14 | 1 |
| Chlorobenzene | 0.11 | 1 |
| Ethyl Benzene | 0.10 | 1 |
| 1,1,1,2-Tetrachloroethane | 0.12 | 1 |
| M+P-Xylene | 0.51 | 2 |
| O-Xylene | 0.16 | 1 |
| Styrene | 0.22 | 1 |
| Bromoform | 0.10 | 1 |
| Isopropylbenzene | 0.12 | 1 |
| Bromobenzene | 0.12 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.15 | 1 |
| n-Propylbenzene | 0.15 | 1 |
| 1,2,3-Trichloropropane | 0.51 | 1 |
| p-Ethyltoluene | 0.24 | 1 |
| 2-Chlorotoluene | 0.35 | 1 |
| 1,3,5-Trimethylbenzene | 0.33 | 1 |
| 4-Chlorotoluene | 0.53 | 1 |
| tert-Butylbenzene | 0.20 | 1 |
| 1,2,4-Trimethylbenzene | 0.13 | 1 |
| sec-Butylbenzene | 0.15 | 1 |
| p-Isoproyltoluene | 0.15 | 1 |
| 1,3-Dichlorobenzene | 0.14 | 1 |
| 1,4-Dichlorobenzene | 0.52 | 1 |
| p-Diethylbenzene | 0.21 | 1 |
| n-Butylbenzene | 0.18 | 1 |
| 1,2-Dichlorobenzene | 0.16 | 1 |
| 1,2,4,5-Tetramethylbenzene | 0.23 | 1 |
| 1,2-Dibromo-3-chloropropane | 0.09 | 1 |
| 1,2,4-Tirchlorobenzene | 0.30 | 1 |
| Hexachlorobutadiene | 0.13 | 1 |
| Naphthalene | 0.17 | 1 |
| 1,2,3-Trichlorobenzene | 0.28 | 1 |

Method Blank Summary -8260- GC/MS-V#1



| Date of Analysis | Blank Volume | Blank Aliquot | Dilution Factor | Column |
|---|---|---|---|---|
| 6/4/04 | 5ml | 50ul | 100.0 | MTX-624, 60mX0.53mm |

Method blank associated with: 242358.01 - .03

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040411.D
Acq On : 4 Jun 104 5:36 pm
Sample : 2358.01 0.2ul
Misc : 06/02/04
Quant Time: Jun 8 10:36 19104

Vial: 11
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.54 | 168 | 5159654 | 50.00 ug/L | -0.01 |
| 26) 1,4-difluorobenzene | 9.02 | 114 | 4836071 | 50.00 ug/L | -0.01 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 4066287 | 50.00 ug/L | -0.01 |
| 57) 1,4-dichlorobenzene-d4 | 19.08 | 152 | 3081652 | 50.00 ug/L | 0.02 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 1915128 | 50.40 ug/L | 100.80% |
| 39) toluene-d8 | 11.90 | 98 | 4330291 | 47.49 ug/L | 94.99% |
| 43) 4-bromofluorobenzene | 16.94 | 174 | 2985832 | 47.09 ug/L | 94.18% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 1.75 | 85 | 2632 | 0.10 ug/L # | 77 |
| 3) chlorodifluoromethane | 1.81 | 51 | 3326 | 0.28 ug/L m | 63 |
| 4) chloromethane | 0.00 | 50 | | Not Detected | |
| 5) vinyl chloride | 0.00 | 62 | | Not Detected | |
| 6) bromomethane | 0.00 | 94 | | Not Detected | |
| 7) chloroethane | 0.00 | 64 | | Not Detected | |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) acrolein | 0.00 | 56 | | No Calib # | |
| 10) freon | 3.24 | 151 | 231786 | 6.38 ug/L | 99 |
| 11) 1,1-dichloroethene | 3.28 | 96 | 5699 | 0.26 ug/L # | 60 |
| 12) acetone | 3.45 | 58 | 30492 | 7.97 ug/L # | 82 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) methylene chloride | 3.96 | 84 | 61118 | 2.29 ug/L | 89 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.02 | 63 | 4796 | 0.11 ug/L | 77 |
| 19) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 22) methyl ethyl ketone | 6.50 | 72 | 961 | 0.19 ug/L # | 1 |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 6.98 | 83 | 90769 | 1.57 ug/L | 96 |
| 25) 1,1,1-trichloroethane | 0.00 | 97 | | Not Detected | |
| 27) carbon tetrachloride | 7.51 | 82 | 2588 | 0.24 ug/L # | 1 |
| 28) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 29) benzene | 8.01 | 78 | 13830 | 0.26 ug/L # | 34 |
| 31) 1,2-dichloroethane | 8.24 | 62 | 3658 | 0.12 ug/L | 74 |
| 32) trichloroethene | 9.45 | 95 | 32169 | 1.13 ug/L | 94 |
| 33) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.60 | 83 | 19059 | 0.39 ug/L # | 42 |
| 36) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040411.D
Acq On : 4 Jun 104 5:36 pm
Sample : 2358.01 0.2ul
Misc : 06/02/04
Quant Time: Jun 8 10:36 19104

Vial: 11
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.00 | 91 | 4107352 | 61.75 ug/L | 96 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 45) | tetrachloroethene | 12.99 | 166 | 39803 | 0.98 ug/L | 95 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 13.66 | 43 | 3788 | 0.17 ug/L # | 24 |
| 48) | dibromochloromethane | 13.66 | 129 | 12085 | 0.21 ug/L | 92 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.73 | 112 | 773372 | 12.78 ug/L | 96 |
| 51) | ethylbenzene | 14.93 | 91 | 661579 | 8.45 ug/L | 98 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.17 | 106 | 900329 | 28.95 ug/L | 95 |
| 54) | o-xylene | 15.91 | 106 | 294546 | 9.21 ug/L | 94 |
| 55) | styrene | 15.97 | 104 | 810255 | 14.71 ug/L | 99 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.59 | 105 | 59415 | 0.69 ug/L | 99 |
| 59) | bromobenzene | 0.00 | 156 | | Not Detected | |
| 60) | 1,1,2,2-tetrachloroethane | 0.00 | 83 | | Not Detected | |
| 61) | n-propylbenzene | 17.37 | 91 | 103858 | 1.12 ug/L m | 94 |
| 62) | 1,2,3-trichloropropane | 17.39 | 110 | 6266 | 0.38 ug/L # | 1 |
| 63) | p-ethyltoluene | 17.57 | 105 | 346061 | 4.56 ug/L | 97 |
| 64) | 2-chlorotoluene | 17.54 | 126 | 4810 | 0.20 ug/L # | 1 |
| 65) | 1,3,5-trimethylbenzene | 17.69 | 105 | 150657 | 2.00 ug/L m | 74 |
| 66) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 67) | tert-butylbenzene | 18.26 | 119 | 47900 | 0.62 ug/L | 90 |
| 68) | 1,2,4-trimethylbenzene | 18.42 | 105 | 322676 | 4.42 ug/L | 97 |
| 69) | sec-butylbenzene | 18.68 | 105 | 46441 | 0.51 ug/L m | 50 |
| 70) | 4-isopropyltoluene | 18.99 | 119 | 107726 | 1.19 ug/L m | 85 |
| 71) | 1,3-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 72) | 1,4-dichlorobenzene | 19.11 | 146 | 9098 | 0.14 ug/L m | 99 |
| 73) | 1,2,3-trimethylbezene | 19.17 | 105 | 115479 | 1.42 ug/L | 99 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 19.75 | 92 | 15898 | 0.38 ug/L # | 53 |
| 76) | 1,2-dichlorobenzene | 19.80 | 146 | 198275 | 3.14 ug/L | 94 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.18 | 119 | 51499 | 0.71 ug/L m | 90 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.77 | 180 | 331221 | 5.87 ug/L | 94 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.20 | 128 | 383159 | 4.10 ug/L | 96 |
| 82) | 1,2,3-trichlorobenzene | 23.66 | 180 | 152483 | 2.70 ug/L | 99 |



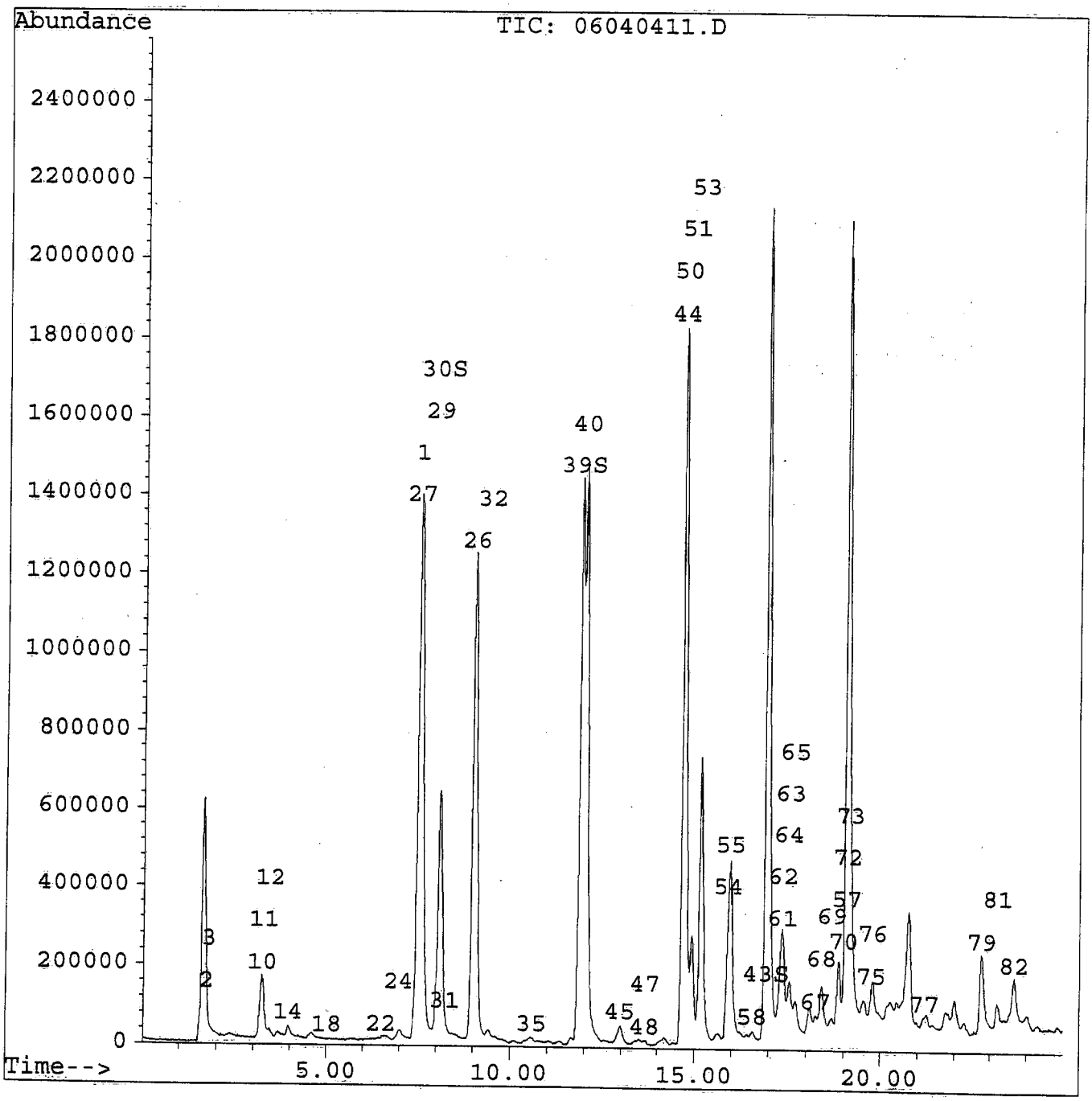
(#) = qualifier out of range (m) = manual integration
06040411.D VS060104.M Fri Jun 18 11:40:03 2004 5970- INSTRUMENT2

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040411.D
Acq On : 4 Jun 104 5:36 pm
Sample : 2358.01 0.2ul
Misc : 06/02/04
Quant Time: Jun 8 10:36 19104

Vial: 11
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040412.D
Acq On : 4 Jun 104 6:07 pm
Sample : 2358.02 0.2ul
Misc : 06/02/04
Quant Time: Jun 8 10:41 19104

Vial: 12
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.55 | 168 | 4954675 | 50.00 ug/L | -0.01 |
| 26) 1,4-difluorobenzene | 9.02 | 114 | 4744128 | 50.00 ug/L | -0.01 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 4021061 | 50.00 ug/L | -0.01 |
| 57) 1,4-dichlorobenzene-d4 | 19.06 | 152 | 3036281 | 50.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 1862050 | 49.95 ug/L | 99.90% |
| 39) toluene-d8 | 11.88 | 98 | 4330258 | 48.41 ug/L | 96.83% |
| 43) 4-bromofluorobenzene | 16.94 | 174 | 2886728 | 46.41 ug/L | 92.82% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 1.75 | 85 | 3840 | 0.16 ug/L # | 80 |
| 3) chlorodifluoromethane | 1.82 | 51 | 4145 | 0.36 ug/L | 90 |
| 4) chloromethane | 0.00 | 50 | | Not Detected | |
| 5) vinyl chloride | 0.00 | 62 | | Not Detected | |
| 6) bromomethane | 2.36 | 94 | 3585 | 0.32 ug/L # | 62 |
| 7) chloroethane | 0.00 | 64 | | Not Detected | |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) acrolein | 0.00 | 56 | | No Calib # | |
| 10) freon | 3.24 | 151 | 149533 | 4.29 ug/L | 100 |
| 11) 1,1-dichloroethene | 3.25 | 96 | 7221 | 0.35 ug/L # | 35 |
| 12) acetone | 3.44 | 58 | 26885 | 7.32 ug/L # | 86 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) methylene chloride | 3.96 | 84 | 65604 | 2.56 ug/L | 94 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.02 | 63 | 4646 | 0.11 ug/L | 87 |
| 19) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 22) methyl ethyl ketone | 6.44 | 72 | 2319 | 0.48 ug/L # | 2 |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 6.99 | 83 | 87008 | 1.57 ug/L | 92 |
| 25) 1,1,1-trichloroethane | 0.00 | 97 | | Not Detected | |
| 27) carbon tetrachloride | 7.45 | 82 | 1097 | 0.10 ug/L # | 1 |
| 28) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 29) benzene | 0.00 | 78 | | Not Detected | |
| 31) 1,2-dichloroethane | 0.00 | 62 | | Not Detected | |
| 32) trichloroethene | 9.42 | 95 | 32351 | 1.16 ug/L | 86 |
| 33) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.59 | 83 | 20878 | 0.44 ug/L # | 50 |
| 36) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040412.D
Acq On : 4 Jun 104 6:07 pm
Sample : 2358.02 0.2ul
Misc : 06/02/04
Quant Time: Jun 8 10:41 19104

Vial: 12
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.01 | 91 | 3737755 | 57.28 ug/L | 97 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 45) | tetrachloroethene | 13.02 | 166 | 33848 | 0.85 ug/L m | 98 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 0.00 | 43 | | Not Detected | |
| 48) | dibromochloromethane | 13.67 | 129 | 9822 | 0.17 ug/L | 91 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.73 | 112 | 868819 | 14.52 ug/L | 96 |
| 51) | ethylbenzene | 14.93 | 91 | 666462 | 8.61 ug/L | 98 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.16 | 106 | 821775 | 26.72 ug/L | 99 |
| 54) | o-xylene | 15.90 | 106 | 285804 | 9.04 ug/L | 91 |
| 55) | styrene | 15.97 | 104 | 880447 | 16.16 ug/L | 98 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.59 | 105 | 49797 | 0.59 ug/L | 95 |
| 59) | bromobenzene | 0.00 | 156 | | Not Detected | |
| 60) | 1,1,2,2-tetrachloroethane | 0.00 | 83 | | Not Detected | |
| 61) | n-propylbenzene | 17.37 | 91 | 92594 | 1.01 ug/L | 91 |
| 62) | 1,2,3-trichloropropane | 17.34 | 110 | 10506 | 0.65 ug/L # | 81 |
| 63) | p-ethyltoluene | 17.57 | 105 | 321638 | 4.31 ug/L | 92 |
| 64) | 2-chlorotoluene | 17.53 | 126 | 5372 | 0.22 ug/L # | 1 |
| 65) | 1,3,5-trimethylbenzene | 17.73 | 105 | 127467 | 1.71 ug/L m | 75 |
| 66) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 67) | tert-butylbenzene | 18.26 | 119 | 67713 | 0.90 ug/L # | 60 |
| 68) | 1,2,4-trimethylbenzene | 18.40 | 105 | 301443 | 4.19 ug/L | 99 |
| 69) | sec-butylbenzene | 18.68 | 105 | 35124 | 0.39 ug/L m | 99 |
| 70) | 4-isopropyltoluene | 18.97 | 119 | 100473 | 1.13 ug/L m | 71 |
| 71) | 1,3-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 72) | 1,4-dichlorobenzene | 19.11 | 146 | 10870 | 0.17 ug/L m | 98 |
| 73) | 1,2,3-trimethylbezene | 19.19 | 105 | 99155 | 1.24 ug/L | 99 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 19.76 | 92 | 10389 | 0.25 ug/L # | 1 |
| 76) | 1,2-dichlorobenzene | 19.80 | 146 | 266480 | 4.28 ug/L | 100 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.19 | 119 | 58060 | 0.81 ug/L m | 98 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.75 | 180 | 351251 | 6.32 ug/L | 98 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.20 | 128 | 351097 | 3.82 ug/L | 96 |
| 82) | 1,2,3-trichlorobenzene | 23.66 | 180 | 153107 | 2.75 ug/L | 97 |

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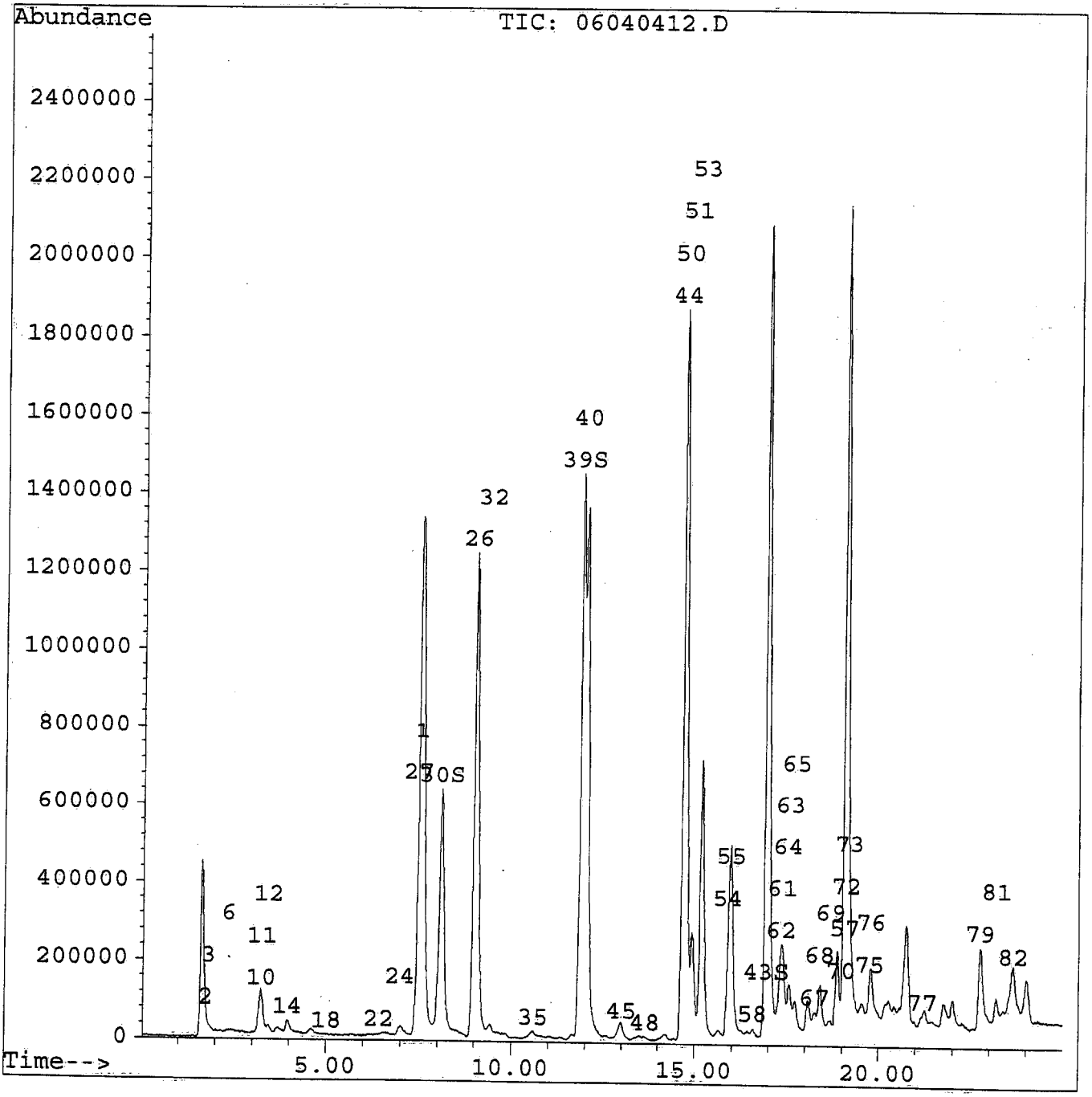
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040412.D
Acq On : 4 Jun 104 6:07 pm
Sample : 2358.02 0.2ul
Misc : 06/02/04
Quant Time: Jun 8 10:41 19104

Vial: 12
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

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Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040413.D
Acq On : 4 Jun 104 6:39 pm
Sample : 2358.03 0.25ul
Misc : 06/02/04
Quant Time: Jun 8 10:45 19104

Vial: 13
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.53 | 168 | 5287956 | 50.00 ug/L | -0.03 |
| 26) 1,4-difluorobenzene | 9.02 | 114 | 5167568 | 50.00 ug/L | -0.01 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 4021208 | 50.00 ug/L | -0.01 |
| 57) 1,4-dichlorobenzene-d4 | 19.06 | 152 | 2949263 | 50.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 2017236 | 49.68 ug/L | 99.36% |
| 39) toluene-d8 | 11.88 | 98 | 4244783 | 43.57 ug/L | 87.14% |
| 43) 4-bromofluorobenzene | 16.94 | 174 | 2877643 | 42.47 ug/L | 84.94% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 1.76 | 85 | 3889 | 0.15 ug/L m | 73 |
| 3) chlorodifluoromethane | 1.81 | 51 | 3783 | 0.31 ug/L | 91 |
| 4) chloromethane | 0.00 | 50 | | Not Detected | |
| 5) vinyl chloride | 0.00 | 62 | | Not Detected | |
| 6) bromomethane | 0.00 | 94 | | Not Detected | |
| 7) chloroethane | 2.47 | 64 | 935 | 0.11 ug/L m | 63 |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) acrolein | 0.00 | 56 | | No Calib | |
| 10) freon | 3.22 | 151 | 201510 | 5.42 ug/L | 100 |
| 11) 1,1-dichloroethene | 0.00 | 96 | | Not Detected | |
| 12) acetone | 3.45 | 58 | 8291 | 2.12 ug/L m | 92 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) methylene chloride | 3.96 | 84 | 81930 | 2.99 ug/L | 93 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib # | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.05 | 63 | 15714 | 0.35 ug/L | 95 |
| 19) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 6.25 | 96 | 12599 | 0.40 ug/L # | 52 |
| 22) methyl ethyl ketone | 0.00 | 72 | | Not Detected | |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 7.01 | 83 | 101766 | 1.72 ug/L | 94 |
| 25) 1,1,1-trichloroethane | 7.21 | 97 | 217188 | 4.43 ug/L | 88 |
| 27) carbon tetrachloride | 7.55 | 82 | 1836 | 0.16 ug/L # | 1 |
| 28) 1,1-dichloropropene | 7.65 | 77 | 1022 | 0.10 ug/L # | 1 |
| 29) benzene | 7.98 | 78 | 13807 | 0.24 ug/L m | 78 |
| 31) 1,2-dichloroethane | 0.00 | 62 | | Not Detected | |
| 32) trichloroethene | 9.42 | 95 | 54056 | 1.78 ug/L | 93 |
| 33) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.61 | 83 | 20883 | 0.40 ug/L | 99 |
| 36) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040413.D
Acq On : 4 Jun 104 6:39 pm
Sample : 2358.03 0.25ul
Misc : 06/02/04
Quant Time: Jun 8 10:45 19104

Vial: 13
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.02 | 91 | 3162885 | 44.50 ug/L | 96 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 12.99 | 83 | 6281 | 0.23 ug/L # | 81 |
| 45) | tetrachloroethene | 12.99 | 166 | 49845 | 1.25 ug/L | 98 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 13.54 | 43 | 2939 | 0.13 ug/L # | 1 |
| 48) | dibromochloromethane | 13.64 | 129 | 13042 | 0.22 ug/L | 93 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.74 | 112 | 6001 | 0.10 ug/L # | 26 |
| 51) | ethylbenzene | 14.93 | 91 | 497651 | 6.43 ug/L | 98 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.17 | 106 | 557665 | 18.13 ug/L m | 99 |
| 54) | o-xylene | 15.90 | 106 | 187250 | 5.92 ug/L | 90 |
| 55) | styrene | 15.97 | 104 | 267738 | 4.91 ug/L | 94 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.59 | 105 | 57672 | 0.70 ug/L | 99 |
| 59) | bromobenzene | 0.00 | 156 | | Not Detected | |
| 60) | 1,1,2,2-tetrachloroethane | 0.00 | 83 | | Not Detected | |
| 61) | n-propylbenzene | 17.36 | 91 | 105975 | 1.19 ug/L m | 95 |
| 62) | 1,2,3-trichloropropane | 17.39 | 110 | 4945 | 0.32 ug/L # | 1 |
| 63) | p-ethyltoluene | 17.56 | 105 | 401153 | 5.53 ug/L | 94 |
| 64) | 2-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 65) | 1,3,5-trimethylbenzene | 17.73 | 105 | 124994 | 1.73 ug/L m | 75 |
| 66) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 67) | tert-butylbenzene | 18.26 | 119 | 8016 | 0.11 ug/L # | 71 |
| 68) | 1,2,4-trimethylbenzene | 18.42 | 105 | 258306 | 3.69 ug/L | 99 |
| 69) | sec-butylbenzene | 18.66 | 105 | 27180 | 0.31 ug/L m | 87 |
| 70) | 4-isopropyltoluene | 19.00 | 119 | 20620 | 0.24 ug/L # | 57 |
| 71) | 1,3-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 72) | 1,4-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 73) | 1,2,3-trimethylbezene | 19.17 | 105 | 95262 | 1.22 ug/L | 97 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 19.79 | 92 | 5043 | 0.12 ug/L # | 1 |
| 76) | 1,2-dichlorobenzene | 19.82 | 146 | 8750 | 0.14 ug/L # | 44 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.19 | 119 | 16005 | 0.23 ug/L m | 95 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.80 | 180 | 18782 | 0.35 ug/L | 84 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.26 | 128 | 165982 | 1.86 ug/L | 90 |
| 82) | 1,2,3-trichlorobenzene | 23.71 | 180 | 12094 | 0.22 ug/L m | 14 |

**150**

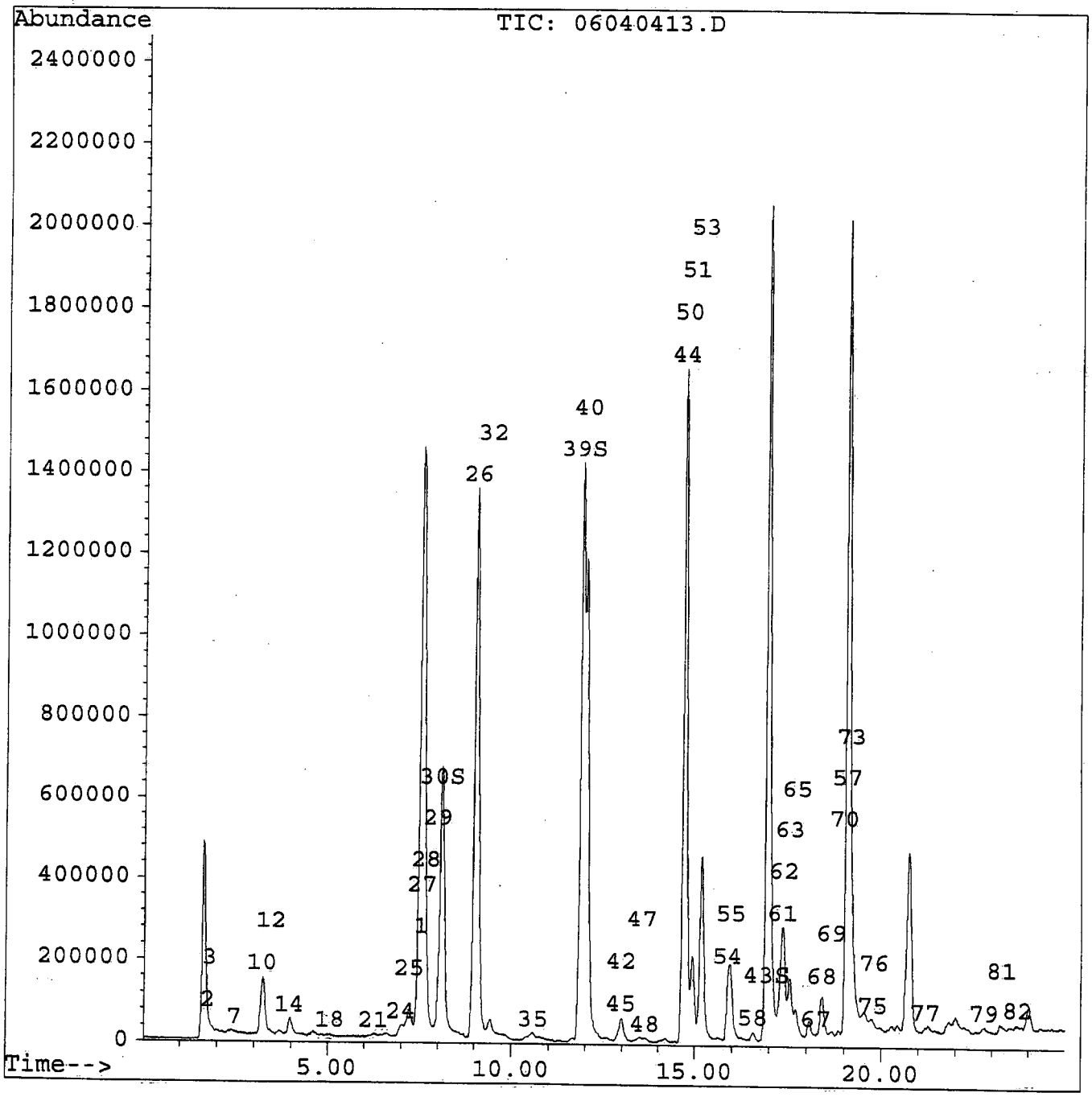
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040413.D
Acq On : 4 Jun 104 6:39 pm
Sample : 2358.03 0.25ul
Misc : 06/02/04
Quant Time: Jun 8 10:45 19104

Vial: 13
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

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Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040414.D
Acq On : 4 Jun 104 7:11 pm
Sample : 2358.03 1ul
Misc : 06/02/04
Quant Time: Jun 8 10:50 19104

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.53 | 168 | 4494134 | 50.00 ug/L | -0.03 |
| 26) 1,4-difluorobenzene | 9.02 | 114 | 4488492 | 50.00 ug/L | -0.01 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 3837023 | 50.00 ug/L | -0.01 |
| 57) 1,4-dichlorobenzene-d4 | 19.06 | 152 | 2855718 | 50.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 1762959 | 49.99 ug/L | 99.97% |
| 39) toluene-d8 | 11.88 | 98 | 4111524 | 48.59 ug/L | 97.17% |
| 43) 4-bromofluorobenzene | 16.94 | 174 | 2679900 | 45.54 ug/L | 91.07% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 1.75 | 85 | 5382 | 0.24 ug/L | 90 |
| 3) chlorodifluoromethane | 1.82 | 51 | 6704 | 0.64 ug/L | 84 |
| 4) chloromethane | 1.98 | 50 | 1293 | 0.13 ug/L # | 90 |
| 5) vinyl chloride | 2.01 | 62 | 2949 | 0.21 ug/L | 90 |
| 6) bromomethane | 2.35 | 94 | 3721 | 0.36 ug/L m | 88 |
| 7) chloroethane | 2.96 | 64 | 1075 | 0.16 ug/L | 86 |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) acrolein | 0.00 | 56 | | No Calib # | |
| 10) freon | 3.22 | 151 | 159762 | 5.05 ug/L | 100 |
| 11) 1,1-dichloroethene | 0.00 | 96 | | Not Detected | |
| 12) acetone | 3.47 | 58 | 7809 | 2.34 ug/L | 98 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) methylene chloride | 3.96 | 84 | 113168 | 4.86 ug/L | 92 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.04 | 63 | 56156 | 1.46 ug/L | 84 |
| 19) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 6.27 | 96 | 40444 | 1.53 ug/L # | 86 |
| 22) methyl ethyl ketone | 6.50 | 72 | 1571 | 0.36 ug/L # | 83 |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 6.98 | 83 | 123164 | 2.45 ug/L | 90 |
| 25) 1,1,1-trichloroethane | 7.22 | 97 | 753503 | 18.08 ug/L | 92 |
| 27) carbon tetrachloride | 7.51 | 82 | 1143 | 0.11 ug/L # | 1 |
| 28) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 29) benzene | 7.98 | 78 | 36041 | 0.72 ug/L | 86 |
| 31) 1,2-dichloroethane | 8.28 | 62 | 5750 | 0.20 ug/L | 74 |
| 32) trichloroethene | 9.44 | 95 | 180385 | 6.84 ug/L | 92 |
| 33) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.59 | 83 | 25230 | 0.56 ug/L | 93 |
| 36) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040414.D
Acq On : 4 Jun 104 7:11 pm
Sample : 2358.03 1ul
Misc : 06/02/04
Quant Time: Jun 8 10:50 19104

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.00 | 91 | 11814201 | 191.37 ug/L | 96 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 13.00 | 83 | 30844 | 1.27 ug/L | 83 |
| 45) | tetrachloroethene | 13.00 | 166 | 165797 | 4.34 ug/L | 98 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 13.48 | 43 | 9009 | 0.42 ug/L # | 43 |
| 48) | dibromochloromethane | 13.65 | 129 | 16869 | 0.30 ug/L | 90 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.73 | 112 | 10111 | 0.18 ug/L # | 38 |
| 51) | ethylbenzene | 14.91 | 91 | 1965324 | 26.60 ug/L | 100 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.17 | 106 | 2062203 | 70.28 ug/L | 98 |
| 54) | o-xylene | 15.90 | 106 | 697253 | 23.11 ug/L | 95 |
| 55) | styrene | 15.96 | 104 | 1090626 | 20.98 ug/L | 98 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.59 | 105 | 195313 | 2.45 ug/L | 98 |
| 59) | bromobenzene | 0.00 | 156 | | Not Detected | |
| 60) | 1,1,2,2-tetrachloroethane | 17.37 | 83 | 8880 | 0.17 ug/L # | 55 |
| 61) | n-propylbenzene | 17.36 | 91 | 395167 | 4.60 ug/L m | 99 |
| 62) | 1,2,3-trichloropropane | 17.39 | 110 | 2232 | 0.15 ug/L # | 1 |
| 63) | p-ethyltoluene | 17.56 | 105 | 1565322 | 22.28 ug/L | 97 |
| 64) | 2-chlorotoluene | 17.46 | 126 | 4120 | 0.18 ug/L # | 1 |
| 65) | 1,3,5-trimethylbenzene | 17.71 | 105 | 533597 | 7.63 ug/L | 96 |
| 66) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 67) | tert-butylbenzene | 0.00 | 119 | | Not Detected | |
| 68) | 1,2,4-trimethylbenzene | 18.40 | 105 | 1076033 | 15.89 ug/L | 99 |
| 69) | sec-butylbenzene | 18.63 | 105 | 41329 | 0.49 ug/L m | 81 |
| 70) | 4-isopropyltoluene | 0.00 | 119 | | Not Detected | |
| 71) | 1,3-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 72) | 1,4-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 73) | 1,2,3-trimethylbezene | 19.17 | 105 | 345574 | 4.59 ug/L | 99 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 19.76 | 92 | 17231 | 0.44 ug/L # | 1 |
| 76) | 1,2-dichlorobenzene | 19.80 | 146 | 21408 | 0.37 ug/L | 97 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.17 | 119 | 58421 | 0.87 ug/L m | 73 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.80 | 180 | 22245 | 0.43 ug/L # | 74 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.20 | 128 | 507446 | 5.86 ug/L | 99 |
| 82) | 1,2,3-trichlorobenzene | 23.69 | 180 | 11421 | 0.22 ug/L m | 1 |



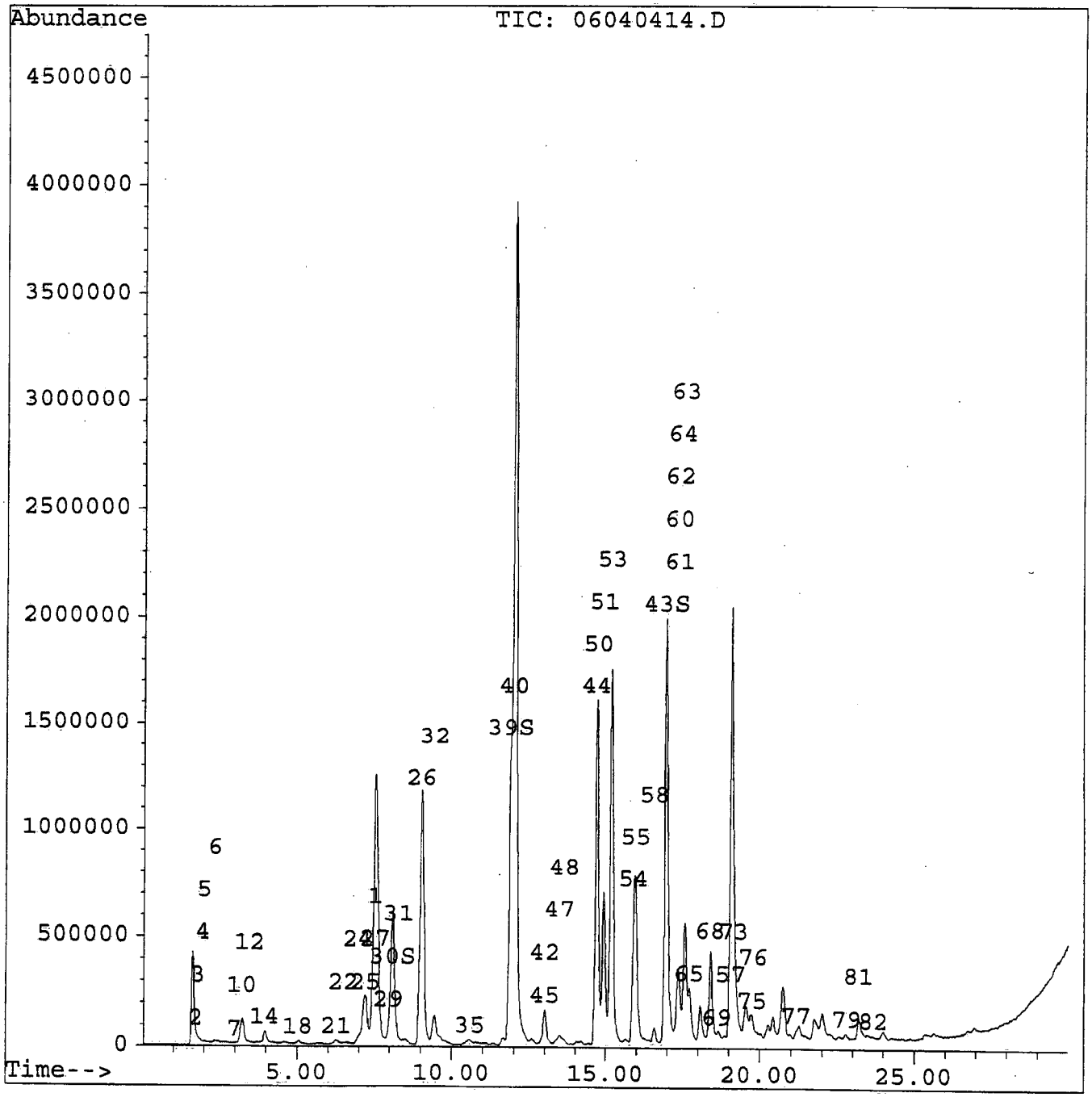
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040414.D
Acq On : 4 Jun 104 7:11 pm
Sample : 2358.03 1ul
Misc : 06/02/04
Quant Time: Jun 8 10:50 19104

Vial: 14
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

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Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040415.D
Acq On : 4 Jun 104 7:49 pm
Sample : 2358.02 1ul
Misc : 06/02/04
Quant Time: Jun 8 10:54 19104

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.54 | 168 | 5089785 | 50.00 ug/L | -0.02 |
| 26) 1,4-difluorobenzene | 9.00 | 114 | 4829995 | 50.00 ug/L | -0.03 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 4155272 | 50.00 ug/L | -0.02 |
| 57) 1,4-dichlorobenzene-d4 | 19.06 | 152 | 3129459 | 50.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 1884094 | 49.64 ug/L | 99.29% |
| 39) toluene-d8 | 11.88 | 98 | 4467914 | 49.07 ug/L | 98.13% |
| 43) 4-bromofluorobenzene | 16.96 | 174 | 3011329 | 47.55 ug/L | 95.10% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 1.76 | 85 | 4720 | 0.19 ug/L # | 90 |
| 3) chlorodifluoromethane | 1.82 | 51 | 5576 | 0.47 ug/L | 78 |
| 4) chloromethane | 2.02 | 50 | 1330 | 0.12 ug/L | 83 |
| 5) vinyl chloride | 3.01 | 62 | 1652 | 0.11 ug/L | 69 |
| 6) bromomethane | 2.41 | 94 | 4696 | 0.40 ug/L | 99 |
| 7) chloroethane | 2.35 | 64 | 1440 | 0.18 ug/L | 98 |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) acrolein | 0.00 | 56 | | No Calib # | |
| 10) freon | 3.24 | 151 | 192693 | 5.38 ug/L | 99 |
| 11) 1,1-dichloroethene | 3.28 | 96 | 15867 | 0.75 ug/L m | 89 |
| 12) acetone | 3.42 | 58 | 100154 | 26.55 ug/L | 96 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) methylene chloride | 3.96 | 84 | 100759 | 3.82 ug/L | 91 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.07 | 63 | 20881 | 0.48 ug/L | 94 |
| 19) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 22) methyl ethyl ketone | 6.44 | 72 | 3354 | 0.68 ug/L # | 1 |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 7.02 | 83 | 107827 | 1.90 ug/L | 78 |
| 25) 1,1,1-trichloroethane | 7.24 | 97 | 14407 | 0.31 ug/L m | 41 |
| 27) carbon tetrachloride | 7.54 | 82 | 1544 | 0.14 ug/L # | 1 |
| 28) 1,1-dichloropropene | 7.61 | 77 | 1002 | 0.11 ug/L # | 1 |
| 29) benzene | 7.97 | 78 | 62069 | 1.16 ug/L | 70 |
| 31) 1,2-dichloroethane | 8.27 | 62 | 15092 | 0.49 ug/L # | 60 |
| 32) trichloroethene | 9.44 | 95 | 170069 | 6.00 ug/L | 91 |
| 33) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.60 | 83 | 28424 | 0.58 ug/L | 99 |
| 36) 2-chloroethylvinylether | 11.39 | 63 | 1312 | 0.17 ug/L # | 67 |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040415.D
Acq On : 4 Jun 104 7:49 pm
Sample : 2358.02 1ul
Misc : 06/02/04
Quant Time: Jun 8 10:54 19104

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.02 | 91 | 18353678 | 276.28 ug/L | 96 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 45) | tetrachloroethene | 13.00 | 166 | 151705 | 3.67 ug/L | 98 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 13.39 | 43 | 27271 | 1.18 ug/L # | 1 |
| 48) | dibromochloromethane | 13.66 | 129 | 15899 | 0.26 ug/L | 99 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.74 | 112 | 4342547 | 70.22 ug/L | 99 |
| 51) | ethylbenzene | 14.93 | 91 | 3404440 | 42.55 ug/L | 98 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.17 | 106 | 4322561 | 136.02 ug/L | 95 |
| 54) | o-xylene | 15.91 | 106 | 1448349 | 44.32 ug/L | 93 |
| 55) | styrene | 15.97 | 104 | 4682276 | 83.18 ug/L | 96 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.59 | 105 | 238477 | 2.73 ug/L | 97 |
| 59) | bromobenzene | 17.17 | 156 | 8429 | 0.19 ug/L # | 80 |
| 60) | 1,1,2,2-tetrachloroethane | 17.34 | 83 | 6522 | 0.11 ug/L # | 1 |
| 61) | n-propylbenzene | 17.37 | 91 | 444082 | 4.72 ug/L | 98 |
| 62) | 1,2,3-trichloropropane | 17.36 | 110 | 16127 | 0.97 ug/L # | 1 |
| 63) | p-ethyltoluene | 17.57 | 105 | 1781599 | 23.14 ug/L | 96 |
| 64) | 2-chlorotoluene | 17.54 | 126 | 30780 | 1.23 ug/L # | 9 |
| 65) | 1,3,5-trimethylbenzene | 17.72 | 105 | 567506 | 7.40 ug/L | 96 |
| 66) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 67) | tert-butylbenzene | 18.28 | 119 | 315065 | 4.05 ug/L | 90 |
| 68) | 1,2,4-trimethylbenzene | 18.40 | 105 | 1586675 | 21.38 ug/L | 99 |
| 69) | sec-butylbenzene | 18.68 | 105 | 66958 | 0.72 ug/L m | 1 |
| 70) | 4-isopropyltoluene | 18.99 | 119 | 454442 | 4.94 ug/L m | 76 |
| 71) | 1,3-dichlorobenzene | 18.95 | 146 | 17351 | 0.29 ug/L # | 68 |
| 72) | 1,4-dichlorobenzene | 19.11 | 146 | 46644 | 0.70 ug/L m | 99 |
| 73) | 1,2,3-trimethylbezene | 19.19 | 105 | 502442 | 6.09 ug/L | 100 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 0.00 | 92 | | Not Detected | |
| 76) | 1,2-dichlorobenzene | 19.79 | 146 | 1424903 | 22.19 ug/L | 98 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.17 | 119 | 274083 | 3.72 ug/L m | 21 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.75 | 180 | 1770620 | 30.91 ug/L | 98 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.18 | 128 | 1768782 | 18.65 ug/L | 100 |
| 82) | 1,2,3-trichlorobenzene | 23.65 | 180 | 769854 | 13.41 ug/L | 99 |



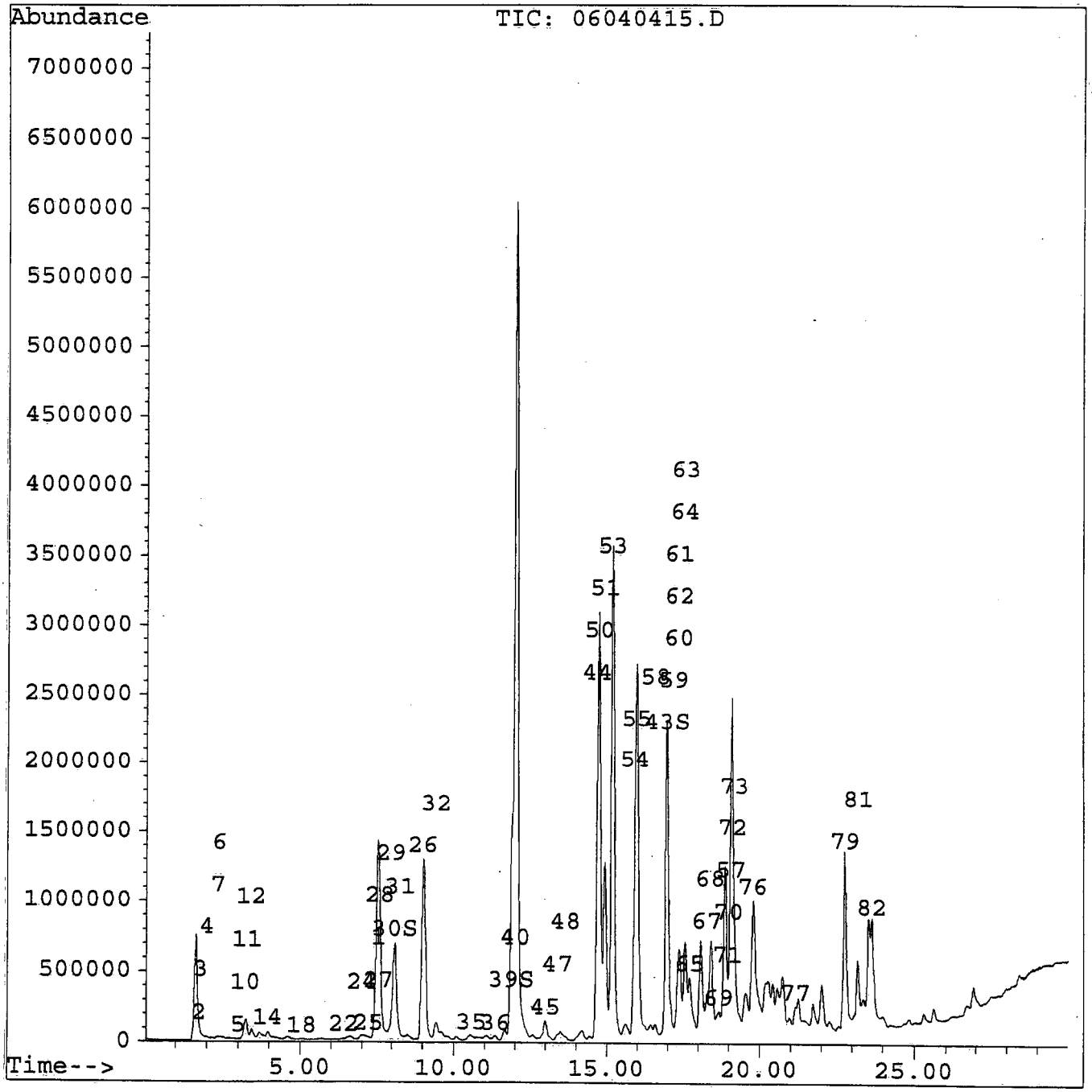
(#) = qualifier out of range (m) = manual integration
06040415.D VS060104.M Fri Jun 18 11:40:35 2004 5970- INSTRUMENT2

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040415.D
Acq On : 4 Jun 104 7:49 pm
Sample : 2358.02 1ul
Misc : 06/02/04
Quant Time: Jun 8 10:54 19104

Vial: 15
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

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Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040416.D
Acq On : 4 Jun 104 8:28 pm
Sample : 2358.01 1ul
Misc : 06/02/04
Quant Time: Jun 8 11:07 19104

Vial: 16
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 7.54 | 168 | 5903784 | 50.00 ug/L | -0.02 |
| 26) 1,4-difluorobenzene | 9.03 | 114 | 5324274 | 50.00 ug/L | 0.00 |
| 44) chlorobenzene-d5 | 14.68 | 117 | 4529309 | 50.00 ug/L | -0.02 |
| 57) 1,4-dichlorobenzene-d4 | 19.08 | 152 | 3427049 | 50.00 ug/L | 0.01 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 30) 1,2-dichloroethane-d4 | 8.08 | 65 | 1986655 | 47.49 ug/L | 94.98% |
| 39) toluene-d8 | 11.89 | 98 | 4796400 | 47.78 ug/L | 95.57% |
| 43) 4-bromofluorobenzene | 16.95 | 174 | 3341329 | 47.86 ug/L | 95.73% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 1.79 | 85 | 7279 | 0.25 ug/L | 95 |
| 3) chlorodifluoromethane | 1.99 | 51 | 1711 | 0.13 ug/L | 75 |
| 4) chloromethane | 1.99 | 50 | 2760 | 0.22 ug/L | 93 |
| 5) vinyl chloride | 2.05 | 62 | 3255 | 0.18 ug/L | 78 |
| 6) bromomethane | 2.71 | 94 | 2846 | 0.21 ug/L | 99 |
| 7) chloroethane | 2.41 | 64 | 2734 | 0.30 ug/L | 83 |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) acrolein | 0.00 | 56 | | No Calib # | |
| 10) freon | 3.22 | 151 | 210495 | 5.07 ug/L | 98 |
| 11) 1,1-dichloroethene | 3.27 | 96 | 19056 | 0.77 ug/L m | 91 |
| 12) acetone | 3.44 | 58 | 124248 | 28.39 ug/L m | 97 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) methylene chloride | 3.99 | 84 | 112976 | 3.70 ug/L | 93 |
| 15) acrylonitrile | 0.00 | 53 | | No Calib # | |
| 16) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 17) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 18) 1,1-dichloroethane | 5.05 | 63 | 27293 | 0.54 ug/L | 83 |
| 19) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 20) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 21) cis-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 22) methyl ethyl ketone | 6.43 | 72 | 11433 | 2.00 ug/L | 98 |
| 23) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 24) chloroform | 7.03 | 83 | 170131 | 2.58 ug/L | 84 |
| 25) 1,1,1-trichloroethane | 7.19 | 97 | 20353 | 0.37 ug/L # | 60 |
| 27) carbon tetrachloride | 0.00 | 82 | | Not Detected | |
| 28) 1,1-dichloropropene | 7.62 | 77 | 1146 | 0.11 ug/L # | 1 |
| 29) benzene | 8.00 | 78 | 72040 | 1.22 ug/L | 85 |
| 31) 1,2-dichloroethane | 8.25 | 62 | 3622 | 0.11 ug/L # | 17 |
| 32) trichloroethene | 9.45 | 95 | 182932 | 5.85 ug/L | 97 |
| 33) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 34) dibromomethane | 0.00 | 93 | | Not Detected | |
| 35) bromodichloromethane | 10.62 | 83 | 31572 | 0.59 ug/L | 80 |
| 36) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040416.D
Acq On : 4 Jun 104 8:28 pm
Sample : 2358.01 1ul
Misc : 06/02/04
Quant Time: Jun 8 11:07 19104

Vial: 16
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 37) | cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 38) | 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 40) | toluene | 12.02 | 91 | 21552503 | 294.32 ug/L | 96 |
| 41) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 42) | 1,1,2-trichloroethane | 13.03 | 83 | 5271 | 0.18 ug/L # | 1 |
| 45) | tetrachloroethene | 13.00 | 166 | 190283 | 4.22 ug/L | 97 |
| 46) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 47) | 2-hexanone | 13.45 | 43 | 23796 | 0.94 ug/L # | 1 |
| 48) | dibromochloromethane | 13.65 | 129 | 18833 | 0.29 ug/L | 84 |
| 49) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 50) | chlorobenzene | 14.74 | 112 | 4050320 | 60.08 ug/L | 99 |
| 51) | ethylbenzene | 14.92 | 91 | 3572952 | 40.97 ug/L | 98 |
| 52) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 53) | m+p-xylene | 15.17 | 106 | 4869315 | 140.58 ug/L | 95 |
| 54) | o-xylene | 15.91 | 106 | 1612849 | 45.28 ug/L | 93 |
| 55) | styrene | 15.97 | 104 | 4652442 | 75.82 ug/L | 97 |
| 56) | bromoform | 0.00 | 173 | | Not Detected | |
| 58) | isopropylbenzene | 16.58 | 105 | 257313 | 2.69 ug/L | 98 |
| 59) | bromobenzene | 17.12 | 156 | 10795 | 0.22 ug/L # | 58 |
| 60) | 1,1,2,2-tetrachloroethane | 17.37 | 83 | 8211 | 0.13 ug/L # | 14 |
| 61) | n-propylbenzene | 17.37 | 91 | 500143 | 4.85 ug/L | 98 |
| 62) | 1,2,3-trichloropropane | 17.38 | 110 | 27975 | 1.54 ug/L # | 1 |
| 63) | p-ethyltoluene | 17.57 | 105 | 1971843 | 23.38 ug/L | 99 |
| 64) | 2-chlorotoluene | 17.52 | 126 | 19816 | 0.72 ug/L # | 1 |
| 65) | 1,3,5-trimethylbenzene | 17.72 | 105 | 740172 | 8.82 ug/L | 98 |
| 66) | 4-chlorotoluene | 17.77 | 126 | 4055 | 0.14 ug/L # | 1 |
| 67) | tert-butylbenzene | 18.28 | 119 | 236294 | 2.77 ug/L # | 78 |
| 68) | 1,2,4-trimethylbenzene | 18.41 | 105 | 1781398 | 21.92 ug/L | 100 |
| 69) | sec-butylbenzene | 18.66 | 105 | 105831 | 1.04 ug/L m | 46 |
| 70) | 4-isopropyltoluene | 18.98 | 119 | 490093 | 4.86 ug/L m | 87 |
| 71) | 1,3-dichlorobenzene | 18.94 | 146 | 14159 | 0.21 ug/L | 88 |
| 72) | 1,4-dichlorobenzene | 19.12 | 146 | 41287 | 0.57 ug/L m | 88 |
| 73) | 1,2,3-trimethylbezene | 19.18 | 105 | 577115 | 6.38 ug/L | 98 |
| 74) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | n-butylbenzene | 0.00 | 92 | | Not Detected | |
| 76) | 1,2-dichlorobenzene | 19.80 | 146 | 1139680 | 16.21 ug/L | 97 |
| 77) | 1,2,4,5-tetramethylbenzene | 21.18 | 119 | 281311 | 3.48 ug/L m | 92 |
| 78) | 1,2-dibromo-3-chloropropan | 0.00 | 157 | | Not Detected | |
| 79) | 1,2,4-trichlorobenzene | 22.75 | 180 | 1931155 | 30.78 ug/L | 97 |
| 80) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 81) | naphthalene | 23.18 | 128 | 2005554 | 19.31 ug/L | 100 |
| 82) | 1,2,3-trichlorobenzene | 23.64 | 180 | 886340 | 14.10 ug/L | 99 |



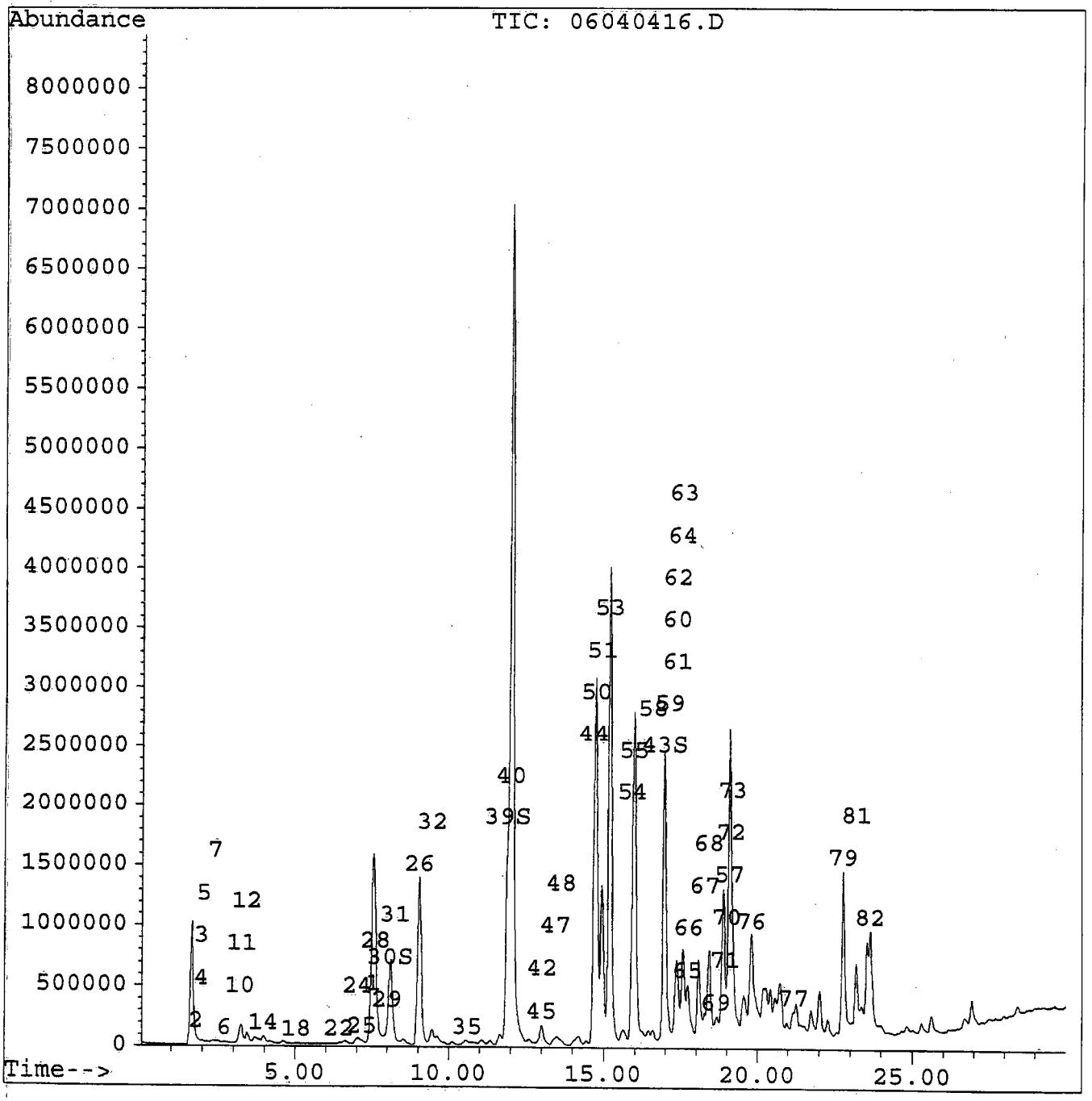
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060404\06040416.D
Acq On : 4 Jun 104 8:28 pm
Sample : 2358.01 1ul
Misc : 06/02/04
Quant Time: Jun 8 11:07 19104

Vial: 16
Operator: JFG
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\VS060104.M
Title : Purgable Organics-EPA8260,624,8021-aqeous samples
Last Update : Wed Jun 02 09:53:10 2004
Response via : Multiple Level Calibration




160

VOCs BY EPA METHOD 8260 - QC DELIVERABLES:
FOR ECOTEST SAMPLE Nos. 242358.04 TCLP

## Sample 242358.04 TCLPZHE Analysis by Method 8260

### Conformance/Nonconformance Summary

QC criteria were met for the following unless stated otherwise:

* Method blank
  Method blank contains 3.08 ug/L of chloroform.

* MDL study
* Surrogate recoveries
  242358.04 ms 4-bromofluorobenzene percent recovery is 113%. Upper Q.C. limit is 107%.

* Matrix Spike & Matrix Spike Duplicate RPD
* Matrix Spike & Matrix Spike Duplicate % recoveries
  Methyl Ethyl Ketone ms and msd percent recoveries are both 160%. Upper Q.C. limit is 128%.

* Reference sample
* Holding Time (USEPA SW846)
* Initial instrument calibration & continuing calibration
* GCMS Tune criteria
* Internal Standard Recovery

# GC/MS-V#1 Surrogate Compound Recovery Results Summary (VOC EPA 8260)

| Surrogate Compound* | QC Limits |
|---|---|
| 12-Dichloroethane-d4 | 89% --> 105% |
| Toluene-d8 | 95% --> 104% |
| 4-Bromofluorobenzene | 89% -->107% |

| Date of Analysis | Sample | 1,2-Dichlorethane-d4 % Recovery | Toluene-d8 % Recovery | 4-Bromofluorobenzene % Recovery |
|---|---|---|---|---|
| 6/9/04 | 242358.04 1ml 20% water | 96 | 102 | 107 |
| 6/9/04 | 242358.04 1ml 80% solid | 94 | 98 | 103 |
| 6/9/04 | 242358.04 1ml 80% solid | 97 | 103 | 113# |
| 6/9/04 | 242358.04 1ml 80% solid | 98 | 102 | 105 |
| 6/9/04 | 10 ug/L | 97 | 101 | 106 |
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*All Samples were spiked with 50ug/Kg of all surrogate compounds.

# Lab Chronical



| Laboratory Number | Date Collected | Date Received | Instrument Name | Sample | Date of Analysis | 8260 Holding Time (days) |
|---|---|---|---|---|---|---|
| 242358.04 | 6/1/04 | 6/2/04 | GCMSV#2 | TCLPZHE Extract, BBD-WC-BLDG. 8 SEPTIC | 6/9/04 | 7 |
| | | | | | | |
| | | | | | | |

## Analytical Results Summary - 8260 - GCMSV#2

| Lab Number | Date Received | Date of Analysis | Sample Weight | Extract Volume | Aliqout Volume | % solid | Dilution Factor | Column |
|---|---|---|---|---|---|---|---|---|
| 242358.04* | 06/02/04 | 06/09/04 | na | 5ml | 1ml | na | 5.0 | MTX-624, 60mX0.53mm |
| 242358.04** | 06/02/04 | 06/09/04 | na | 5ml | 1ml | na | 5.0 | MTX-624, 60mX0.53mm |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

* Water Matrix

** Soil Matrix

## Date Time Summary



| Sample | Date | Time | Sample Type |
|---|---|---|---|
| BFB 50ng | 6/9/04 | 8:53 | BFB Tune Check |
| 20 ug/L | 6/9/04 | 9:52 | Continuing Calibration Check Std. |
| TCLP Blank 6/2/04 | 6/9/04 | 11:13 | Method Blank |
| 1.0 ug/L | 6/9/04 | 12:36 | Low Level Check Std. |
| 242358.04 1ml 20% water | 6/9/04 | 13:16 | Method Blank |
| 242358.04 1ml 80% solid | 6/9/04 | 13:56 | Sample |
| 242358.04 1ml 80% solid | 6/9/04 | 14:36 | Spike |
| 242358.04 1ml 80% solid | 6/9/04 | 15:17 | Duplicate Spike |
| 10 ug/L | 6/9/04 | 16:38 | 2nd Source Reference Std. |
| | | | |
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## Method Detection Limits and Practical Quantitation Limits for GC/MS-V#1 Using Precept Soil Module.



| Compound | MDL (ug/L) | PQL (ug/L) |
|---|---|---|
| Dichlorodifluoromethane | 0.24 | 1 |
| Chlorodifluoromethane | 0.13 | 1 |
| Chloromethane | 0.37 | 1 |
| Vinyl chloride | 0.31 | 1 |
| Bromomethane | 0.65 | 1 |
| Chloroethane | 0.52 | 1 |
| Trichlorofluoromethane | 0.06 | 1 |
| Freon | 0.16 | 1 |
| 1,1-Dichloroethene | 0.54 | 1 |
| Acetone | 1.89 | 10 |
| Methylene chloride | 0.88 | 1 |
| trans-1,2-Dichloroethene | 0.16 | 1 |
| Methyl,tert-butyl ether | 0.23 | 1 |
| 1,1-Dichloroethane | 0.37 | 1 |
| 2,2-Dichloropropane | 0.31 | 1 |
| cis-1,2-Dichloroethene | 0.44 | 1 |
| Methyl ethyl ketone | 2.53 | 10 |
| Bromochloromethane | 0.26 | 1 |
| Chloroform | 0.40 | 1 |
| 1,1,1-Trichloroethane | 0.25 | 1 |
| Carbon tetrachloride | 0.09 | 1 |
| 1,1-Dichloropropene | 0.45 | 1 |
| Benzene | 0.13 | 1 |
| 1,2-Dichloroethane | 0.32 | 1 |
| Trichloroethene | 0.28 | 1 |
| 1,2-Dichloropropane | 0.28 | 1 |
| Dibromomethane | 0.20 | 1 |
| Bromodichloromethane | 0.14 | 1 |
| cis-1,3-Dichloropropene | 0.29 | 1 |
| Methyl isobutyl ketone | 1.09 | 10 |
| Toluene | 0.18 | 1 |
| trans-1,3-Dichloropropene | 0.51 | 1 |
| 1,1,2-Trichloroethane | 0.16 | 1 |
| Tetrachloroethene | 0.19 | 1 |
| 1,3-Dichloropropane | 0.26 | 1 |
| Dibromochloromethane | 0.18 | 1 |
| 1,2-Dibromoethane | 0.19 | 1 |
| Chlorobenzene | 0.16 | 1 |
| Ethyl Benzene | 0.19 | 1 |
| 1,1,1,2-Tetrachloroethane | 0.13 | 1 |
| M+P-Xylene | 0.44 | 2 |
| O-Xylene | 0.26 | 1 |
| Styrene | 0.19 | 1 |
| Bromoform | 0.17 | 1 |
| Isopropylbenzene | 0.20 | 1 |
| Bromobenzene | 0.11 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.24 | 1 |
| n-Propylbenzene | 0.16 | 1 |
| 1,2,3-Trichloropropane | 0.39 | 1 |
| p-Ethyltoluene | 0.29 | 1 |
| 2-Chlorotoluene | 0.37 | 1 |
| 1,3,5-Trimethylbenzene | 0.19 | 1 |
| 4-Chlorotoluene | 0.20 | 1 |
| tert-Butylbenzene | 0.26 | 1 |
| 1,2,4-Trimethylbenzene | 0.23 | 1 |
| sec-Butylbenzene | 0.24 | 1 |
| p-Isoproyltoluene | 0.27 | 1 |
| 1,3-Dichlorobenzene | 0.21 | 1 |
| 1,4-Dichlorobenzene | 0.20 | 1 |
| p-Diethylbenzene | 0.23 | 1 |
| n-Butylbenzene | 0.26 | 1 |
| 1,2-Dichlorobenzene | 0.19 | 1 |
| 1,2,4,5-Tetramethylbenzene | 0.22 | 1 |
| 1,2-Dibromo-3-chloropropane | 0.24 | 1 |
| 1,2,4-Tirchlorobenzene | 0.20 | 1 |
| Hexachlorobutadiene | 0.36 | 1 |
| Naphthalene | 0.11 | 1 |
| 1,2,3-Trichlorobenzene | 0.12 | 1 |

## Method Blank Summary - 8260 - GCMSV#2

| Date Extracted | Date of Analysis | Sample Weight | Dilution Factor | Column |
|---|---|---|---|---|
| 06/02/04 | 6/9/04 | 5.0ml | 1.0 | MTX-624, 60mX0.53mm |

Method blank associated with: 242358.04

# MS/MSD Recovery Result Summary (VOC EPA 8260)

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Instrument ID: GC/MS-V#2
Date of Analysis: 06/9/04
Sample Spiked: 242358.04 1ml 80% solid
Associated Samples: 242358.04

| Compound | Unspiked Conc. (ug/L) | Spike Added (ug/L) | MS Conc. (ug/L) | MS Recov. (%) | MSD Conc. (ug/L) | MSD Recov. (%) | RPD* (%) | Recovery Limits (%) | RPD* Limits (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.00 | 20 | 22.8 | 114 | 22.3 | 111 | 2 | 71->121 | 16 | |
| Chlorobenzene | 0.48 | 20 | 21.7 | 106 | 21.4 | 105 | 1 | 77->119 | 15 | |
| Chloroform | 0.50 | 20 | 22.6 | 110 | 22.4 | 110 | 1 | 82->117 | 11 | |
| 1,4-Dichlorobenzene | 0.66 | 20 | 21.5 | 104 | 22.3 | 108 | 4 | 72->118 | 20 | |
| 1,2-Dichloroethane | 0.00 | 20 | 21.3 | 107 | 22.3 | 111 | 4 | 77->119 | 9 | |
| 1,1-Dichloroethene | 0.00 | 20 | 22.0 | 110 | 22.6 | 113 | 3 | 85->115 | 14 | |
| Methyl Ethyl Ketone | 0.00 | 100 | 159.6 | 160 | 159.8 | 160 | 0 | 55->128 | 11 | # |
| Tetrachloroethene | 0.00 | 20 | 21.8 | 109 | 21.9 | 110 | 1 | 68->121 | 17 | |
| Trichloroethene | 0.00 | 20 | 21.4 | 107 | 21.3 | 106 | 0 | 82->114 | 15 | |
| Vinyl Chloride | 0.00 | 20 | 21.6 | 108 | 20.8 | 104 | 4 | 79->118 | 16 | |
| Benzene | 0.00 | 20 | 22.5 | 113 | 21.7 | 109 | 4 | 63->133 | 12 | |

*RPD= Relative Percent Difference.
#- Indicates value out of limits.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090404.D
Acq On : 9 Jun 104 11:13 am
Sample : tclpzhe blank 6/2/04
Misc :
Quant Time: Jun 10 8:28 19104

Vial: 4
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 12.25 | 168 | 337125 | 50.00 UG/L. | -0.07 |
| 24) 1,4-difluorobenzene | 13.83 | 114 | 432080 | 50.00 UG/L. | -0.08 |
| 42) chlorobenzene-d5 | 19.53 | 117 | 438627 | 50.00 UG/L. | -0.04 |
| 55) 1,4-dichlorobenzene-d4 | 23.91 | 152 | 261451 | 50.00 UG/L. | -0.06 |
| System Monitoring Compounds | | | | | %Recovery |
| 27) 1,2-dichloroethane-d4 | 12.88 | 102 | 42707 | 46.90 UG/L. | 93.80% |
| 37) toluene-d8 | 16.74 | 98 | 463100 | 49.97 UG/L. | 99.95% |
| 41) 4-bromofluorobenzene | 21.76 | 174 | 291502 | 53.02 UG/L. | 106.04% |
| Target Compounds | | | | | Qvalue |
| 2) dichlorodifluoromethane | 0.00 | 85 | | Not Detected | |
| 3) chlorodifluoromethane | 0.00 | 51 | | Not Detected | |
| 4) chloromethane | 0.00 | 50 | | Not Detected | |
| 5) vinyl chloride | 0.00 | 62 | | Not Detected | |
| 6) bromomethane | 0.00 | 96 | | Not Detected | |
| 7) chloroethane | 0.00 | 64 | | Not Detected | |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) freon | 5.93 | 151 | 7506 | 1.61 UG/L. | 100 |
| 10) acetone | 6.22 | 43 | 24845 | 61.71 UG/L. | 99 |
| 11) 1,1-dichloroethene | 0.00 | 96 | | Not Detected | |
| 12) methylene chloride | 7.29 | 84 | 18665 | 5.22 UG/L. | 96 |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 15) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 16) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 17) 1,1-dichloroethane | 0.00 | 63 | | Not Detected | |
| 18) methyl ethyl ketone | 0.00 | 43 | | Not Detected | |
| 19) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 20) cis-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 21) chloroform | 11.70 | 83 | 24507 | 3.08 UG/L. | 97 |
| 22) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 23) 1,1,1-trichloroethane | 0.00 | 97 | | Not Detected | |
| 25) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 26) carbon tetrachloride | 0.00 | 82 | | Not Detected | |
| 28) 1,2-dichloroethane | 0.00 | 62 | | Not Detected | |
| 29) benzene | 0.00 | 78 | | Not Detected | |
| 30) trichloroethene | 0.00 | 95 | | Not Detected | |
| 31) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 32) bromodichloromethane | 15.40 | 83 | 16193 | 1.95 UG/L. | 96 |
| 33) dibromomethane | 0.00 | 93 | | Not Detected | |
| 34) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |
| 35) 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 36) cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |

170

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090404.D
Acq On : 9 Jun 104 11:13 am
Sample : tclpzhe blank 6/2/04
Misc :
Quant Time: Jun 10 8:28 19104

Vial: 4
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 38) toluene | 0.00 | 92 | | Not Detected | |
| 39) trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 40) 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 43) 2-hexanone | 0.00 | 43 | | Not Detected | |
| 44) 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 45) tetrachloroethene | 0.00 | 166 | | Not Detected | |
| 46) dibromochloromethane | 18.48 | 129 | 11831 | 1.37 UG/L. | 99 |
| 47) 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 48) chlorobenzene | 0.00 | 112 | | Not Detected | |
| 49) 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 50) ethylbenzene | 0.00 | 91 | | Not Detected | |
| 51) m+p-xylene | 0.00 | 106 | | Not Detected | |
| 52) o-xylene | 0.00 | 106 | | Not Detected | |
| 53) styrene | 0.00 | 104 | | Not Detected | |
| 54) bromoform | 0.00 | 173 | | Not Detected | |
| 56) isopropylbenzene | 0.00 | 105 | | Not Detected | |
| 57) 1,1,2,2-tetrachloroethane | 0.00 | 83 | | Not Detected | |
| 58) 1,2,3-trichloropropane | 0.00 | 110 | | Not Detected | |
| 59) n-propylbenzene | 0.00 | 91 | | Not Detected | |
| 60) bromobenzene | 0.00 | 156 | | Not Detected | |
| 61) p-ethyltoluene | 0.00 | 105 | | Not Detected | |
| 62) 1,3,5-trimethylbenzene | 22.52 | 120 | 4599 | 1.18 UG/L. | 91 |
| 63) 2-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 64) 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 65) tert-butylbenzene | 0.00 | 134 | | Not Detected | |
| 66) 1,2,4-trimethylbenzene | 0.00 | 105 | | Not Detected | |
| 67) sec-butylbenzene | 0.00 | 105 | | Not Detected | |
| 68) 4-isopropyltoluene | 0.00 | 119 | | Not Detected | |
| 69) 1,3-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 70) 1,4-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 71) n-butylbenzene | 0.00 | 91 | | Not Detected | |
| 72) p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 73) 1,2-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 74) 1,2,4,5-tetramethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) 1,2-dibromo-3-chloropropan | 0.00 | 75 | | Not Detected | |
| 76) 1,2,4-trichlorobenzene | 0.00 | 180 | | Not Detected | |
| 77) hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 78) naphthalene | 0.00 | 128 | | Not Detected | |
| 79) 1,2,3-trichlorobenzene | 0.00 | 180 | | Not Detected | |

**171**

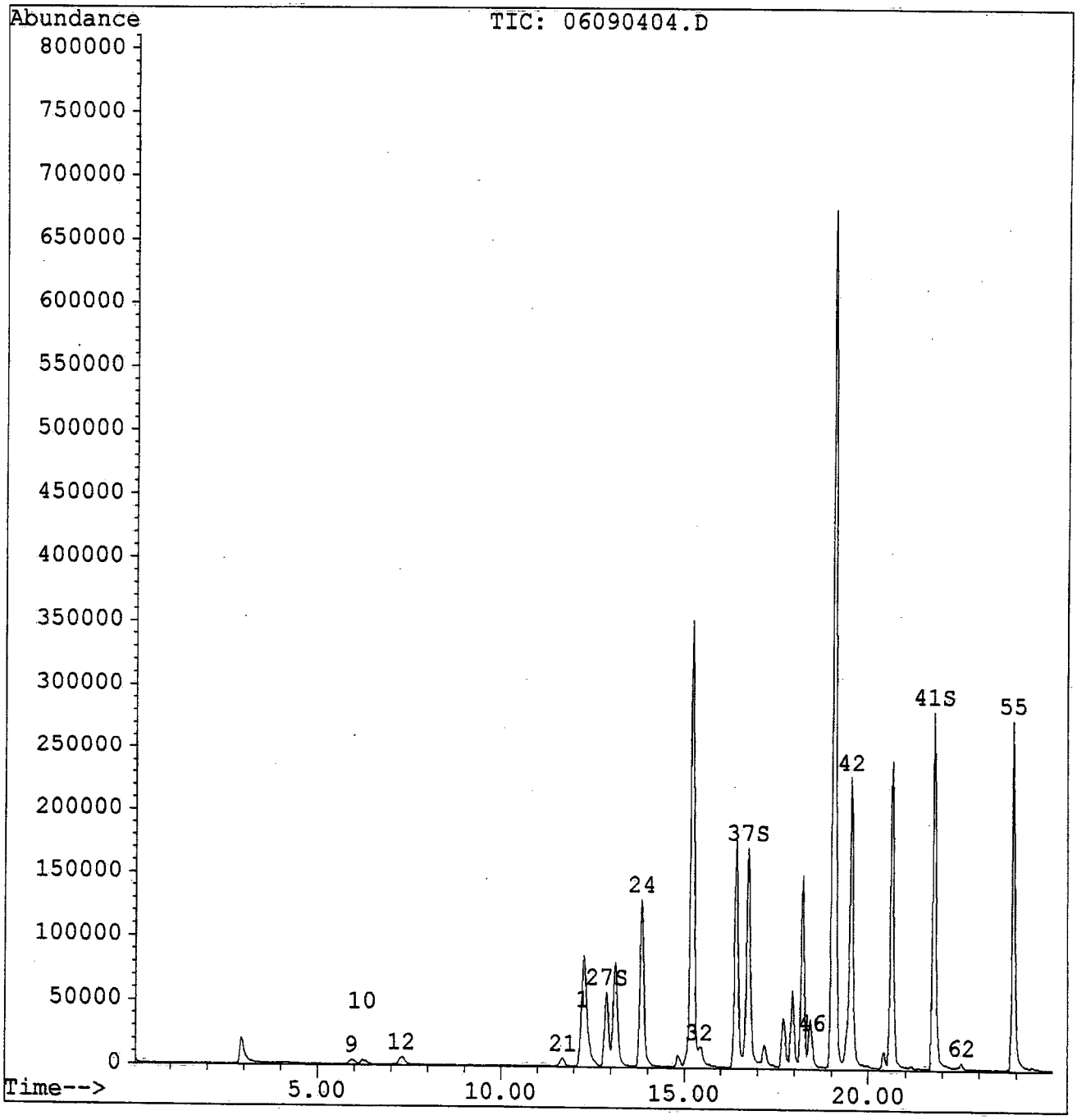
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090404.D
Acq On : 9 Jun 104 11:13 am
Sample : tclpzhe blank 6/2/04
Misc :
Quant Time: Jun 10 8:28 19104

Vial: 4
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration




172

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090407.D
Acq On : 9 Jun 104 1:16 pm
Sample : 242358.04 1ml 20% water
Misc :
Quant Time: Jun 10 8:31 19104

Vial: 7
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 12.23 | 168 | 331325 | 50.00 UG/L. | -0.08 |
| 24) 1,4-difluorobenzene | 13.84 | 114 | 411286 | 50.00 UG/L. | -0.07 |
| 42) chlorobenzene-d5 | 19.54 | 117 | 426062 | 50.00 UG/L. | -0.03 |
| 55) 1,4-dichlorobenzene-d4 | 23.92 | 152 | 260556 | 50.00 UG/L. | -0.06 |
| System Monitoring Compounds | | | | | %Recovery |
| 27) 1,2-dichloroethane-d4 | 12.88 | 102 | 41668 | 48.07 UG/L. | 96.14% |
| 37) toluene-d8 | 16.73 | 98 | 448547 | 50.85 UG/L. | 101.70% |
| 41) 4-bromofluorobenzene | 21.77 | 174 | 278916 | 53.29 UG/L. | 106.59% |
| Target Compounds | | | | | Qvalue |
| 2) dichlorodifluoromethane | 0.00 | 85 | | Not Detected | |
| 3) chlorodifluoromethane | 0.00 | 51 | | Not Detected | |
| 4) chloromethane | 0.00 | 50 | | Not Detected | |
| 5) vinyl chloride | 0.00 | 62 | | Not Detected | |
| 6) bromomethane | 0.00 | 96 | | Not Detected | |
| 7) chloroethane | 0.00 | 64 | | Not Detected | |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) freon | 0.00 | 151 | | Not Detected | |
| 10) acetone | 6.29 | 43 | 7868 | 19.89 UG/L.m | 89 |
| 11) 1,1-dichloroethene | 0.00 | 96 | | Not Detected | |
| 12) methylene chloride | 0.00 | 84 | | Not Detected | |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 15) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 16) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 17) 1,1-dichloroethane | 0.00 | 63 | | Not Detected | |
| 18) methyl ethyl ketone | 0.00 | 43 | | Not Detected | |
| 19) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 20) cis-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 21) chloroform | 11.68 | 83 | 4159 | 0.53 UG/L. | 97 |
| 22) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 23) 1,1,1-trichloroethane | 0.00 | 97 | | Not Detected | |
| 25) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 26) carbon tetrachloride | 0.00 | 82 | | Not Detected | |
| 28) 1,2-dichloroethane | 0.00 | 62 | | Not Detected | |
| 29) benzene | 0.00 | 78 | | Not Detected | |
| 30) trichloroethene | 0.00 | 95 | | Not Detected | |
| 31) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 32) bromodichloromethane | 15.46 | 83 | 3395 | 0.43 UG/L.# | 58 |
| 33) dibromomethane | 0.00 | 93 | | Not Detected | |
| 34) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |
| 35) 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 36) cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |

173

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090407.D
Acq On : 9 Jun 104 1:16 pm
Sample : 242358.04 1ml 20% water
Misc :
Quant Time: Jun 10 8:31 19104

Vial: 7
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 38) | toluene | 0.00 | 92 | | Not Detected | |
| 39) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 40) | 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 43) | 2-hexanone | 0.00 | 43 | | Not Detected | |
| 44) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 45) | tetrachloroethene | 0.00 | 166 | | Not Detected | |
| 46) | dibromochloromethane | 0.00 | 129 | | Not Detected | |
| 47) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 48) | chlorobenzene | 0.00 | 112 | | Not Detected | |
| 49) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 50) | ethylbenzene | 0.00 | 91 | | Not Detected | |
| 51) | m+p-xylene | 19.97 | 106 | 3219 | 0.67 UG/L.# | 65 |
| 52) | o-xylene | 20.74 | 106 | 2333 | 0.49 UG/L. | 99 |
| 53) | styrene | 0.00 | 104 | | Not Detected | |
| 54) | bromoform | 0.00 | 173 | | Not Detected | |
| 56) | isopropylbenzene | 0.00 | 105 | | Not Detected | |
| 57) | 1,1,2,2-tetrachloroethane | 0.00 | 83 | | Not Detected | |
| 58) | 1,2,3-trichloropropane | 0.00 | 110 | | Not Detected | |
| 59) | n-propylbenzene | 22.37 | 91 | 9492 | 0.73 UG/L. | 95 |
| 60) | bromobenzene | 0.00 | 156 | | Not Detected | |
| 61) | p-ethyltoluene | 22.36 | 105 | 6968 | 0.72 UG/L.m | 99 |
| 62) | 1,3,5-trimethylbenzene | 22.51 | 120 | 2241 | 0.58 UG/L. | 98 |
| 63) | 2-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 64) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 65) | tert-butylbenzene | 0.00 | 134 | | Not Detected | |
| 66) | 1,2,4-trimethylbenzene | 23.22 | 105 | 13351 | 1.78 UG/L. | 88 |
| 67) | sec-butylbenzene | 0.00 | 105 | | Not Detected | |
| 68) | 4-isopropyltoluene | 0.00 | 119 | | Not Detected | |
| 69) | 1,3-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 70) | 1,4-dichlorobenzene | 23.98 | 146 | 4414 | 0.65 UG/L.# | 57 |
| 71) | n-butylbenzene | 0.00 | 91 | | Not Detected | |
| 72) | p-diethylbenzene | 0.00 | 119 | | Not Detected | |
| 73) | 1,2-dichlorobenzene | 24.67 | 146 | 16562 | 2.55 UG/L. | 98 |
| 74) | 1,2,4,5-tetramethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | 1,2-dibromo-3-chloropropan | 0.00 | 75 | | Not Detected | |
| 76) | 1,2,4-trichlorobenzene | 0.00 | 180 | | Not Detected | |
| 77) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 78) | naphthalene | 0.00 | 128 | | Not Detected | |
| 79) | 1,2,3-trichlorobenzene | 0.00 | 180 | | Not Detected | |



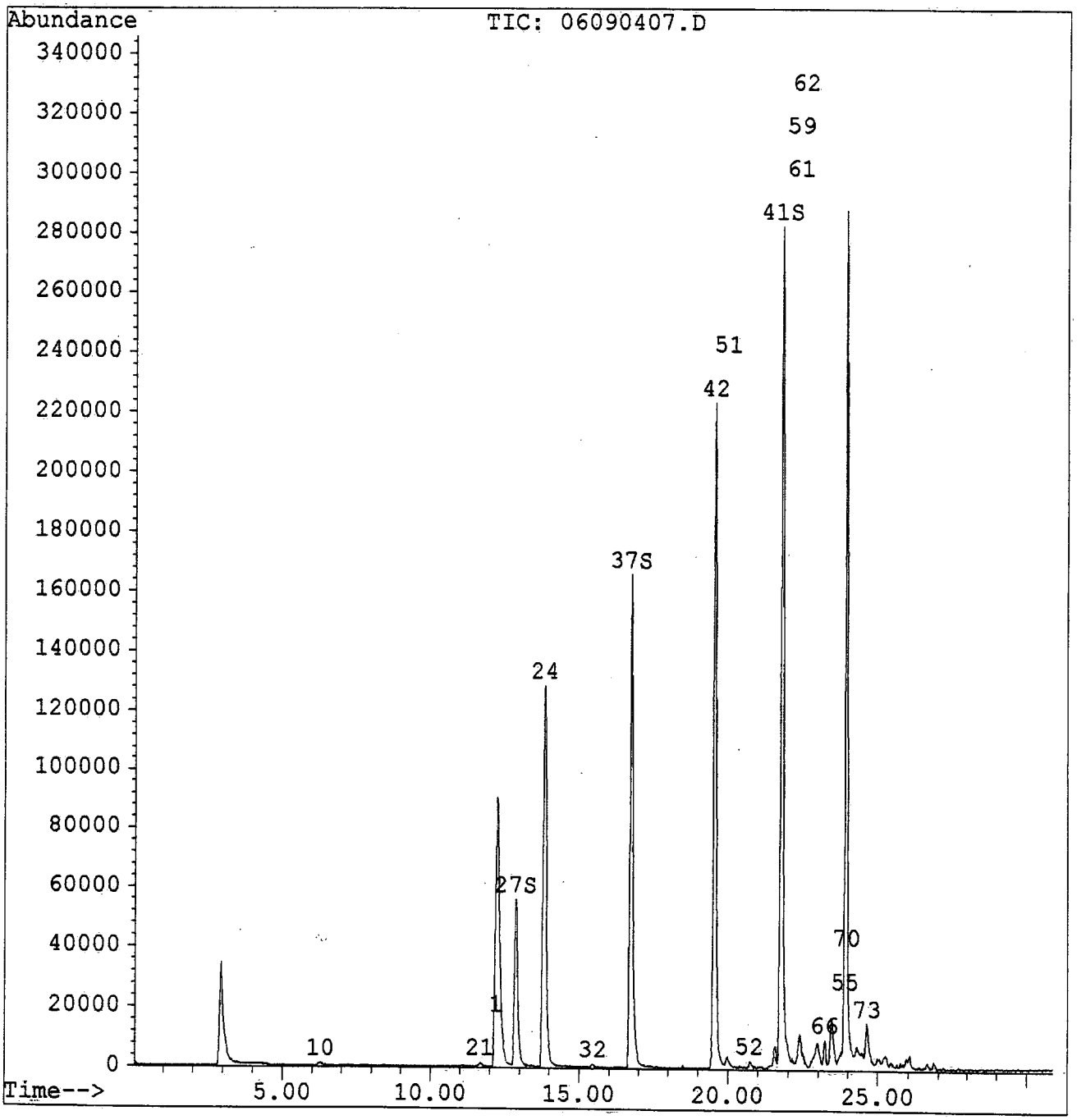
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090407.D
Acq On : 9 Jun 104 1:16 pm
Sample : 242358.04 1ml 20% water
Misc :
Quant Time: Jun 10 8:31 19104

Vial: 7
Operator: B . BOLLERMANN
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090408.D
Acq On : 9 Jun 104 1:56 pm
Sample : 242358.04 1ml 80% solid
Misc :
Quant Time: Jun 9 14:42 19104

Vial: 8
Operator: B . BOLLERMANN
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 12.25 | 168 | 334118 | 50.00 UG/L. | -0.07 |
| 24) 1,4-difluorobenzene | 13.83 | 114 | 424617 | 50.00 UG/L. | -0.08 |
| 42) chlorobenzene-d5 | 19.53 | 117 | 419448 | 50.00 UG/L. | -0.04 |
| 55) 1,4-dichlorobenzene-d4 | 23.92 | 152 | 261890 | 50.00 UG/L. | -0.05 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 27) 1,2-dichloroethane-d4 | 12.88 | 102 | 41853 | 46.77 UG/L. | 93.54% |
| 37) toluene-d8 | 16.75 | 98 | 448361 | 49.23 UG/L. | 98.47% |
| 41) 4-bromofluorobenzene | 21.78 | 174 | 277828 | 51.42 UG/L. | 102.84% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 0.00 | 85 | | Not Detected | |
| 3) chlorodifluoromethane | 0.00 | 51 | | Not Detected | |
| 4) chloromethane | 0.00 | 50 | | Not Detected | |
| 5) vinyl chloride | 0.00 | 62 | | Not Detected | |
| 6) bromomethane | 0.00 | 96 | | Not Detected | |
| 7) chloroethane | 0.00 | 64 | | Not Detected | |
| 8) trichlorofluoromethane | 0.00 | 101 | | Not Detected | |
| 9) freon | 0.00 | 151 | | Not Detected | |
| 10) acetone | 6.26 | 43 | 4745 | 11.89 UG/L.# | 62 |
| 11) 1,1-dichloroethene | 0.00 | 96 | | Not Detected | |
| 12) methylene chloride | 0.00 | 84 | | Not Detected | |
| 13) carbon disulfide | 0.00 | 76 | | Not Detected | |
| 14) tert-butylmethylether | 0.00 | 73 | | Not Detected | |
| 15) trans-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 16) vinyl acetate | 0.00 | 43 | | Not Detected | |
| 17) 1,1-dichloroethane | 0.00 | 63 | | Not Detected | |
| 18) methyl ethyl ketone | 0.00 | 43 | | Not Detected | |
| 19) 2,2-dichloropropane | 0.00 | 77 | | Not Detected | |
| 20) cis-1,2-dichloroethene | 0.00 | 96 | | Not Detected | |
| 21) chloroform | 11.64 | 83 | 3943 | 0.50 UG/L.m | 87 |
| 22) bromochloromethane | 0.00 | 128 | | Not Detected | |
| 23) 1,1,1-trichloroethane | 0.00 | 97 | | Not Detected | |
| 25) 1,1-dichloropropene | 0.00 | 77 | | Not Detected | |
| 26) carbon tetrachloride | 0.00 | 82 | | Not Detected | |
| 28) 1,2-dichloroethane | 0.00 | 62 | | Not Detected | |
| 29) benzene | 0.00 | 78 | | Not Detected | |
| 30) trichloroethene | 0.00 | 95 | | Not Detected | |
| 31) 1,2-dichloropropane | 0.00 | 63 | | Not Detected | |
| 32) bromodichloromethane | 15.43 | 83 | 4524 | 0.55 UG/L.# | 88 |
| 33) dibromomethane | 0.00 | 93 | | Not Detected | |
| 34) 2-chloroethylvinylether | 0.00 | 63 | | Not Detected | |
| 35) 4-methyl-2-pentanone | 0.00 | 58 | | Not Detected | |
| 36) cis-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090408.D
Acq On : 9 Jun 104 1:56 pm
Sample : 242358.04 1ml 80% solid
Misc :
Quant Time: Jun 9 14:42 19104

Vial: 8
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 38) | toluene | 16.88 | 92 | 4755 | 0.67 UG/L. | 99 |
| 39) | trans-1,3-dichloropropene | 0.00 | 75 | | Not Detected | |
| 40) | 1,1,2-trichloroethane | 0.00 | 83 | | Not Detected | |
| 43) | 2-hexanone | 0.00 | 43 | | Not Detected | |
| 44) | 1,3-dichloropropane | 0.00 | 76 | | Not Detected | |
| 45) | tetrachloroethene | 0.00 | 166 | | Not Detected | |
| 46) | dibromochloromethane | 0.00 | 129 | | Not Detected | |
| 47) | 1,2-dibromoethane | 0.00 | 107 | | Not Detected | |
| 48) | chlorobenzene | 19.58 | 112 | 4228 | 0.48 UG/L.# | 4 |
| 49) | 1,1,1,2-tetrachloroethane | 0.00 | 131 | | Not Detected | |
| 50) | ethylbenzene | 0.00 | 91 | | Not Detected | |
| 51) | m+p-xylene | 19.99 | 106 | 4503 | 0.95 UG/L. | 92 |
| 52) | o-xylene | 20.75 | 106 | 2995 | 0.64 UG/L. | 86 |
| 53) | styrene | 0.00 | 104 | | Not Detected | |
| 54) | bromoform | 0.00 | 173 | | Not Detected | |
| 56) | isopropylbenzene | 0.00 | 105 | | Not Detected | |
| 57) | 1,1,2,2-tetrachloroethane | 0.00 | 83 | | Not Detected | |
| 58) | 1,2,3-trichloropropane | 0.00 | 110 | | Not Detected | |
| 59) | n-propylbenzene | 0.00 | 91 | | Not Detected | |
| 60) | bromobenzene | 0.00 | 156 | | Not Detected | |
| 61) | p-ethyltoluene | 22.35 | 105 | 8856 | 0.91 UG/L.m | 94 |
| 62) | 1,3,5-trimethylbenzene | 22.50 | 120 | 3182 | 0.82 UG/L. | 90 |
| 63) | 2-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 64) | 4-chlorotoluene | 0.00 | 126 | | Not Detected | |
| 65) | tert-butylbenzene | 0.00 | 134 | | Not Detected | |
| 66) | 1,2,4-trimethylbenzene | 23.21 | 105 | 16353 | 2.17 UG/L. | 95 |
| 67) | sec-butylbenzene | 0.00 | 105 | | Not Detected | |
| 68) | 4-isopropyltoluene | 0.00 | 119 | | Not Detected | |
| 69) | 1,3-dichlorobenzene | 0.00 | 146 | | Not Detected | |
| 70) | 1,4-dichlorobenzene | 23.97 | 146 | 4517 | 0.66 UG/L.# | 40 |
| 71) | n-butylbenzene | 0.00 | 91 | | Not Detected | |
| 72) | p-diethylbenzene | 24.49 | 119 | 4197 | 0.96 UG/L.# | 57 |
| 73) | 1,2-dichlorobenzene | 24.67 | 146 | 19987 | 3.06 UG/L. | 95 |
| 74) | 1,2,4,5-tetramethylbenzene | 0.00 | 119 | | Not Detected | |
| 75) | 1,2-dibromo-3-chloropropan | 0.00 | 75 | | Not Detected | |
| 76) | 1,2,4-trichlorobenzene | 0.00 | 180 | | Not Detected | |
| 77) | hexachlorobutadiene | 0.00 | 225 | | Not Detected | |
| 78) | naphthalene | 0.00 | 128 | | Not Detected | |
| 79) | 1,2,3-trichlorobenzene | 0.00 | 180 | | Not Detected | |

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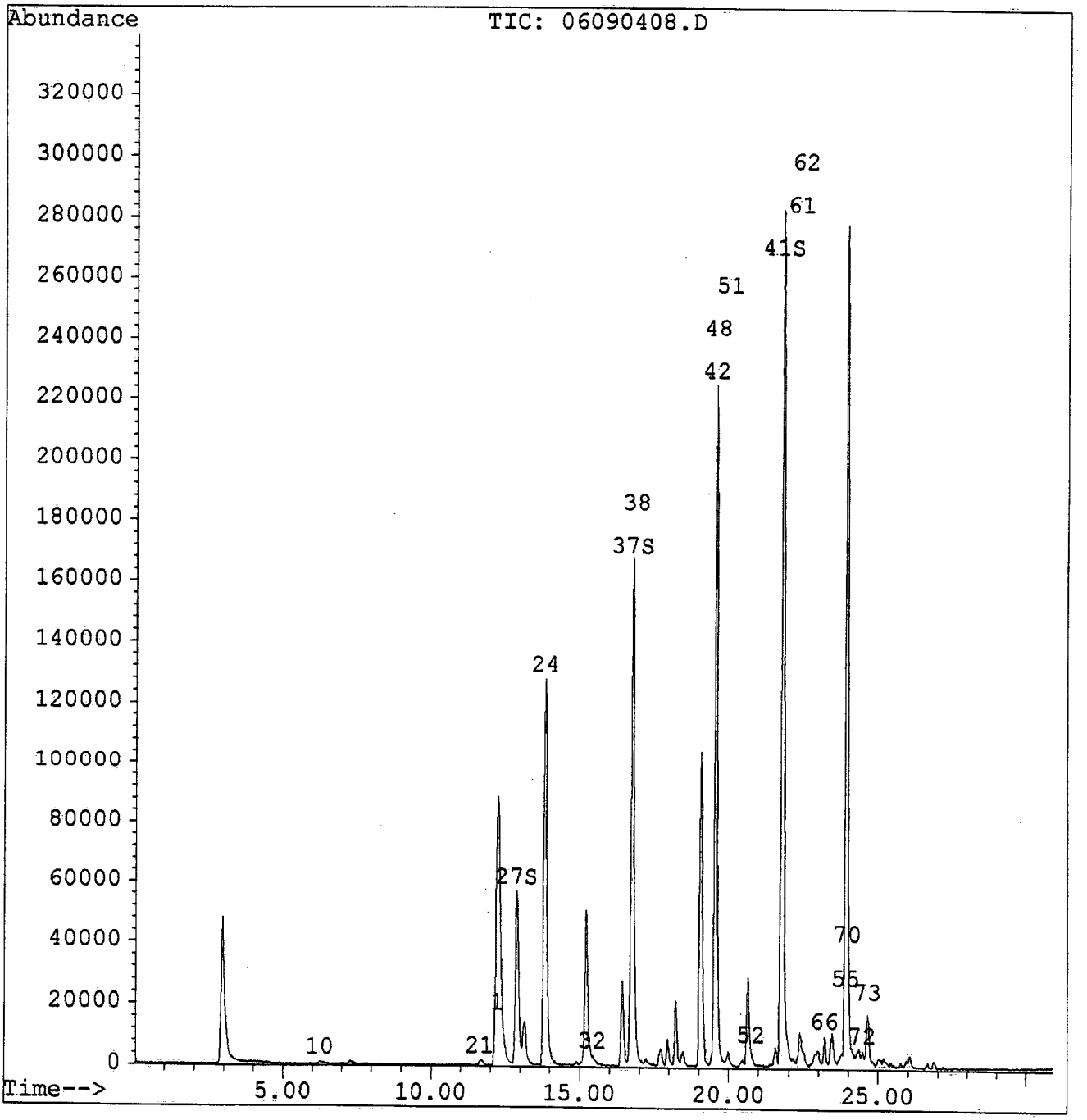
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090408.D
Acq On : 9 Jun 104 1:56 pm
Sample : 242358.04 1ml 80% solid
Misc :
Quant Time: Jun 9 14:42 19104

Vial: 8
Operator: B . BOLLERMANN
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090409.D
Acq On : 9 Jun 104 2:36 pm
Sample : 242358.04 1ml 80% solid ms+20
Misc :
Quant Time: Jun 10 8:32 19104

Vial: 9
Operator: B . BOLLERMANN
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 12.26 | 168 | 334926 | 50.00 UG/L. | -0.06 |
| 24) 1,4-difluorobenzene | 13.83 | 114 | 414965 | 50.00 UG/L. | -0.08 |
| 42) chlorobenzene-d5 | 19.54 | 117 | 422718 | 50.00 UG/L. | -0.03 |
| 55) 1,4-dichlorobenzene-d4 | 23.91 | 152 | 278426 | 50.00 UG/L. | -0.06 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 27) 1,2-dichloroethane-d4 | 12.88 | 102 | 42427 | 48.51 UG/L. | 97.03% |
| 37) toluene-d8 | 16.74 | 98 | 459401 | 51.62 UG/L. | 103.24% |
| 41) 4-bromofluorobenzene | 21.77 | 174 | 298534 | 56.54 UG/L. | 113.08% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 3.25 | 85 | 106373 | 21.13 UG/L | 96 |
| 3) chlorodifluoromethane | 3.30 | 51 | 32426 | 20.06 UG/L. | 98 |
| 4) chloromethane | 3.59 | 50 | 47519 | 22.56 UG/L. | 77 |
| 5) vinyl chloride | 3.70 | 62 | 57526 | 21.61 UG/L. | 99 |
| 6) bromomethane | 4.24 | 96 | 33999 | 15.28 UG/L. | 95 |
| 7) chloroethane | 4.45 | 64 | 39868 | 21.89 UG/L. | 99 |
| 8) trichlorofluoromethane | 4.87 | 101 | 170151 | 21.08 UG/L. | 98 |
| 9) freon | 5.92 | 151 | 101248 | 21.80 UG/L. | 100 |
| 10) acetone | 6.22 | 43 | 78920 | 197.31 UG/L. | 97 |
| 11) 1,1-dichloroethene | 5.98 | 96 | 63420 | 21.97 UG/L. | 94 |
| 12) methylene chloride | 7.29 | 84 | 84571 | 23.80 UG/L. | 97 |
| 13) carbon disulfide | 6.42 | 76 | 166932 | 20.49 UG/L. | 90 |
| 14) tert-butylmethylether | 7.86 | 73 | 214772 | 21.88 UG/L. | 97 |
| 15) trans-1,2-dichloroethene | 7.93 | 96 | 74227 | 21.86 UG/L.# | 93 |
| 16) vinyl acetate | 9.35 | 43 | 770152 | 109.92 UG/L. | 99 |
| 17) 1,1-dichloroethane | 9.20 | 63 | 139420 | 21.65 UG/L. | 99 |
| 18) methyl ethyl ketone | 10.93 | 43 | 147885 | 159.58 UG/L. | 78 |
| 19) 2,2-dichloropropane | 10.69 | 77 | 133421 | 24.47 UG/L. | 78 |
| 20) cis-1,2-dichloroethene | 10.83 | 96 | 83135 | 21.91 UG/L. | 95 |
| 21) chloroform | 11.67 | 83 | 178151 | 22.57 UG/L. | 99 |
| 22) bromochloromethane | 11.46 | 128 | 53788 | 21.17 UG/L. | 94 |
| 23) 1,1,1-trichloroethane | 11.97 | 97 | 166972 | 22.63 UG/L. | 98 |
| 25) 1,1-dichloropropene | 12.38 | 77 | 37044 | 22.63 UG/L. | 88 |
| 26) carbon tetrachloride | 12.28 | 82 | 42473 | 22.84 UG/L.# | 92 |
| 28) 1,2-dichloroethane | 13.04 | 62 | 91887 | 21.33 UG/L. | 97 |
| 29) benzene | 12.83 | 78 | 231272 | 22.51 UG/L. | 97 |
| 30) trichloroethene | 14.29 | 95 | 102018 | 21.36 UG/L. | 96 |
| 31) 1,2-dichloropropane | 14.83 | 63 | 90618 | 22.36 UG/L. | 97 |
| 32) bromodichloromethane | 15.42 | 83 | 176583 | 22.14 UG/L. | 99 |
| 33) dibromomethane | 15.10 | 93 | 107503 | 23.03 UG/L. | 96 |
| 34) 2-chloroethylvinylether | 16.09 | 63 | 3646 | 6.18 UG/L. | 92 |
| 35) 4-methyl-2-pentanone | 16.60 | 58 | 185501 | 113.80 UG/L. | 95 |
| 36) cis-1,3-dichloropropene | 16.32 | 75 | 155531 | 24.88 UG/L. | 93 |

179

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090409.D
Acq On : 9 Jun 104 2:36 pm
Sample : 242358.04 1ml 80% solid ms+20
Misc :
Quant Time: Jun 10 8:32 19104

Vial: 9
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 38) toluene | 16.87 | 92 | 162077 | 23.28 UG/L. | 99 |
| 39) trans-1,3-dichloropropene | 17.45 | 75 | 132029 | 21.55 UG/L. | 99 |
| 40) 1,1,2-trichloroethane | 17.79 | 83 | 86050 | 22.37 UG/L. | 98 |
| 43) 2-hexanone | 18.22 | 43 | 274922 | 111.71 UG/L.# | 82 |
| 44) 1,3-dichloropropane | 18.11 | 76 | 146366 | 21.07 UG/L. | 100 |
| 45) tetrachloroethene | 17.87 | 166 | 116800 | 21.75 UG/L. | 98 |
| 46) dibromochloromethane | 18.47 | 129 | 171118 | 20.55 UG/L. | 99 |
| 47) 1,2-dibromoethane | 18.70 | 107 | 150990 | 21.14 UG/L. | 97 |
| 48) chlorobenzene | 19.58 | 112 | 191873 | 21.74 UG/L. | 84 |
| 49) 1,1,1,2-tetrachloroethane | 19.76 | 131 | 110968 | 20.97 UG/L. | 96 |
| 50) ethylbenzene | 19.74 | 91 | 290664 | 21.09 UG/L. | 98 |
| 51) m+p-xylene | 19.98 | 106 | 201550 | 42.21 UG/L. | 99 |
| 52) o-xylene | 20.73 | 106 | 100735 | 21.27 UG/L. | 93 |
| 53) styrene | 20.78 | 104 | 170344 | 20.31 UG/L. | 99 |
| 54) bromoform | 21.15 | 173 | 161089 | 20.94 UG/L. | 98 |
| 56) isopropylbenzene | 21.39 | 105 | 280129 | 21.54 UG/L. | 100 |
| 57) 1,1,2,2-tetrachloroethane | 22.08 | 83 | 168505 | 22.44 UG/L. | 99 |
| 58) 1,2,3-trichloropropane | 22.16 | 110 | 49388 | 22.35 UG/L. | 97 |
| 59) n-propylbenzene | 22.15 | 91 | 291158 | 20.94 UG/L. | 99 |
| 60) bromobenzene | 22.02 | 156 | 122204 | 21.60 UG/L.# | 79 |
| 61) p-ethyltoluene | 22.50 | 105 | 187746 | 18.15 UG/L. | 96 |
| 62) 1,3,5-trimethylbenzene | 22.50 | 120 | 86125 | 20.80 UG/L. | 94 |
| 63) 2-chlorotoluene | 22.37 | 126 | 65599 | 22.18 UG/L. | 99 |
| 64) 4-chlorotoluene | 22.59 | 126 | 57571 | 19.89 UG/L | 94 |
| 65) tert-butylbenzene | 23.09 | 134 | 46158 | 21.07 UG/L. | 98 |
| 66) 1,2,4-trimethylbenzene | 23.20 | 105 | 175891 | 21.98 UG/L. | 98 |
| 67) sec-butylbenzene | 23.49 | 105 | 229224 | 20.49 UG/L. | 98 |
| 68) 4-isopropyltoluene | 23.76 | 119 | 181293 | 20.90 UG/L. | 97 |
| 69) 1,3-dichlorobenzene | 23.79 | 146 | 144425 | 20.44 UG/L. | 98 |
| 70) 1,4-dichlorobenzene | 23.96 | 146 | 155184 | 21.46 UG/L. | 94 |
| 71) n-butylbenzene | 24.52 | 91 | 170086 | 20.02 UG/L. | 97 |
| 72) p-diethylbenzene | 24.48 | 119 | 94892 | 20.49 UG/L. | 95 |
| 73) 1,2-dichlorobenzene | 24.66 | 146 | 172747 | 24.85 UG/L. | 98 |
| 74) 1,2,4,5-tetramethylbenzene | 25.95 | 119 | 130509 | 22.64 UG/L. | 96 |
| 75) 1,2-dibromo-3-chloropropan | 26.14 | 75 | 37671 | 20.19 UG/L. | 97 |
| 76) 1,2,4-trichlorobenzene | 27.64 | 180 | 55008 | 19.17 UG/L. | 95 |
| 77) hexachlorobutadiene | 27.85 | 225 | 54596 | 24.12 UG/L. | 99 |
| 78) naphthalene | 28.11 | 128 | 107315 | 19.46 UG/L. | 99 |
| 79) 1,2,3-trichlorobenzene | 28.52 | 180 | 51667 | 19.50 UG/L. | 98 |

**180**

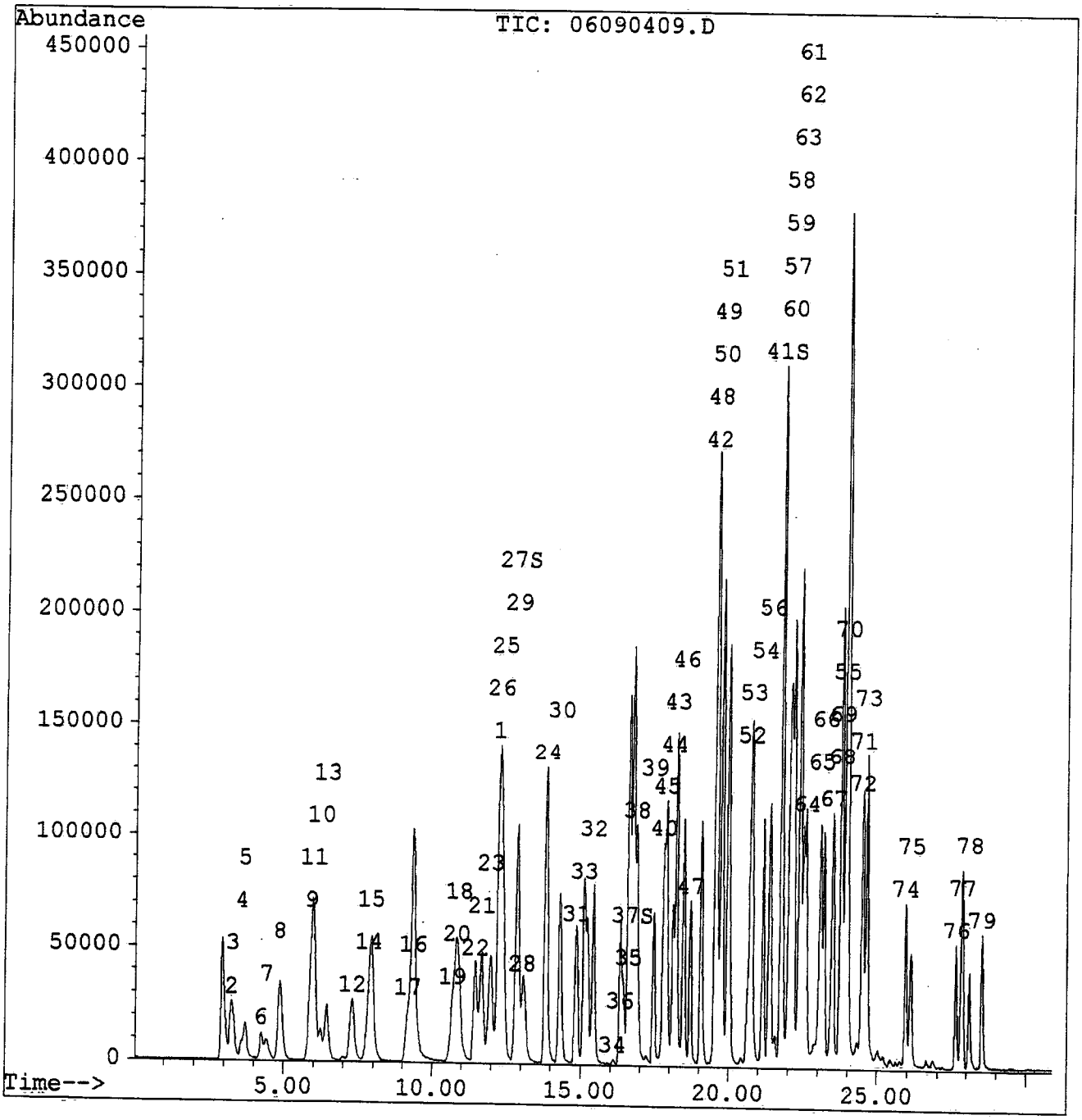
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090409.D
Acq On : 9 Jun 104 2:36 pm
Sample : 242358.04 1ml 80% solid ms+20
Misc :
Quant Time: Jun 10 8:32 19104

Vial: 9
Operator: B . BOLLERMANN
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090410.D
Acq On : 9 Jun 104 3:17 pm
Sample : 242358.04 1ml 80% solid msd+20
Misc :
Quant Time: Jun 10 8:32 19104

Vial: 10
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) pentafluorobenzene | 12.24 | 168 | 338334 | 50.00 UG/L. | -0.08 |
| 24) 1,4-difluorobenzene | 13.83 | 114 | 423333 | 50.00 UG/L. | -0.09 |
| 42) chlorobenzene-d5 | 19.53 | 117 | 426132 | 50.00 UG/L. | -0.04 |
| 55) 1,4-dichlorobenzene-d4 | 23.91 | 152 | 281734 | 50.00 UG/L. | -0.07 |
| **System Monitoring Compounds** | | | | | %Recovery |
| 27) 1,2-dichloroethane-d4 | 12.88 | 102 | 43750 | 49.04 UG/L. | 98.08% |
| 37) toluene-d8 | 16.73 | 98 | 461028 | 50.78 UG/L. | 101.56% |
| 41) 4-bromofluorobenzene | 21.77 | 174 | 283173 | 52.57 UG/L. | 105.14% |
| **Target Compounds** | | | | | Qvalue |
| 2) dichlorodifluoromethane | 3.23 | 85 | 110636 | 21.75 UG/L | 97 |
| 3) chlorodifluoromethane | 3.31 | 51 | 32318 | 19.79 UG/L. | 98 |
| 4) chloromethane | 3.59 | 50 | 47874 | 22.50 UG/L. | 96 |
| 5) vinyl chloride | 3.70 | 62 | 56015 | 20.83 UG/L. | 97 |
| 6) bromomethane | 4.25 | 96 | 38478 | 17.11 UG/L. | 97 |
| 7) chloroethane | 4.44 | 64 | 38059 | 20.69 UG/L. | 96 |
| 8) trichlorofluoromethane | 4.87 | 101 | 168693 | 20.68 UG/L. | 98 |
| 9) freon | 5.92 | 151 | 102870 | 21.93 UG/L. | 100 |
| 10) acetone | 6.22 | 43 | 79073 | 195.71 UG/L. | 96 |
| 11) 1,1-dichloroethene | 5.99 | 96 | 65801 | 22.56 UG/L. | 100 |
| 12) methylene chloride | 7.29 | 84 | 85185 | 23.73 UG/L. | 97 |
| 13) carbon disulfide | 6.43 | 76 | 173930 | 21.14 UG/L. | 99 |
| 14) tert-butylmethylether | 7.89 | 73 | 215946 | 21.78 UG/L. | 96 |
| 15) trans-1,2-dichloroethene | 7.91 | 96 | 75944 | 22.14 UG/L.# | 93 |
| 16) vinyl acetate | 9.35 | 43 | 789939 | 111.61 UG/L. | 100 |
| 17) 1,1-dichloroethane | 9.21 | 63 | 140763 | 21.64 UG/L. | 98 |
| 18) methyl ethyl ketone | 10.89 | 43 | 149575 | 159.78 UG/L. | 76 |
| 19) 2,2-dichloropropane | 10.70 | 77 | 129132 | 23.45 UG/L. | 88 |
| 20) cis-1,2-dichloroethene | 10.83 | 96 | 84483 | 22.04 UG/L. | 99 |
| 21) chloroform | 11.65 | 83 | 178972 | 22.44 UG/L. | 97 |
| 22) bromochloromethane | 11.46 | 128 | 54238 | 21.13 UG/L. | 94 |
| 23) 1,1,1-trichloroethane | 11.97 | 97 | 166430 | 22.33 UG/L. | 98 |
| 25) 1,1-dichloropropene | 12.38 | 77 | 37021 | 22.16 UG/L. | 89 |
| 26) carbon tetrachloride | 12.27 | 82 | 42257 | 22.28 UG/L.# | 90 |
| 28) 1,2-dichloroethane | 13.05 | 62 | 97801 | 22.25 UG/L. | 99 |
| 29) benzene | 12.83 | 78 | 227642 | 21.72 UG/L. | 99 |
| 30) trichloroethene | 14.29 | 95 | 103617 | 21.27 UG/L. | 97 |
| 31) 1,2-dichloropropane | 14.84 | 63 | 89889 | 21.74 UG/L. | 99 |
| 32) bromodichloromethane | 15.41 | 83 | 178747 | 21.97 UG/L. | 100 |
| 33) dibromomethane | 15.10 | 93 | 104819 | 22.01 UG/L. | 98 |
| 34) 2-chloroethylvinylether | 16.08 | 63 | 3825 | 6.35 UG/L. | 86 |
| 35) 4-methyl-2-pentanone | 16.60 | 58 | 188171 | 113.15 UG/L. | 94 |
| 36) cis-1,3-dichloropropene | 16.32 | 75 | 158220 | 24.81 UG/L. | 93 |

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090410.D
Acq On : 9 Jun 104 3:17 pm
Sample : 242358.04 1ml 80% solid msd+20
Misc :
Quant Time: Jun 10 8:32 19104

Vial: 10
Operator: B . BOLLERMANN
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 38) | toluene | 16.86 | 92 | 163566 | 23.03 UG/L. | 98 |
| 39) | trans-1,3-dichloropropene | 17.45 | 75 | 130185 | 20.83 UG/L. | 99 |
| 40) | 1,1,2-trichloroethane | 17.78 | 83 | 85606 | 21.82 UG/L. | 97 |
| 43) | 2-hexanone | 18.21 | 43 | 278831 | 112.39 UG/L.# | 82 |
| 44) | 1,3-dichloropropane | 18.10 | 76 | 148779 | 21.25 UG/L. | 99 |
| 45) | tetrachloroethene | 17.88 | 166 | 118539 | 21.90 UG/L. | 98 |
| 46) | dibromochloromethane | 18.47 | 129 | 176565 | 21.03 UG/L. | 99 |
| 47) | 1,2-dibromoethane | 18.69 | 107 | 151087 | 20.98 UG/L. | 97 |
| 48) | chlorobenzene | 19.58 | 112 | 190677 | 21.43 UG/L. | 86 |
| 49) | 1,1,1,2-tetrachloroethane | 19.76 | 131 | 112011 | 21.00 UG/L. | 98 |
| 50) | ethylbenzene | 19.74 | 91 | 294970 | 21.23 UG/L. | 99 |
| 51) | m+p-xylene | 19.98 | 106 | 204179 | 42.42 UG/L. | 96 |
| 52) | o-xylene | 20.72 | 106 | 103589 | 21.70 UG/L. | 91 |
| 53) | styrene | 20.79 | 104 | 175784 | 20.79 UG/L. | 99 |
| 54) | bromoform | 21.15 | 173 | 162550 | 20.96 UG/L. | 98 |
| 56) | isopropylbenzene | 21.39 | 105 | 280213 | 21.29 UG/L. | 98 |
| 57) | 1,1,2,2-tetrachloroethane | 22.08 | 83 | 173806 | 22.88 UG/L. | 100 |
| 58) | 1,2,3-trichloropropane | 22.17 | 110 | 50604 | 22.63 UG/L. | 95 |
| 59) | n-propylbenzene | 22.15 | 91 | 300642 | 21.37 UG/L. | 100 |
| 60) | bromobenzene | 22.03 | 156 | 121177 | 21.17 UG/L. | 99 |
| 61) | p-ethyltoluene | 22.49 | 105 | 170970 | 16.33 UG/L. | 96 |
| 62) | 1,3,5-trimethylbenzene | 22.49 | 120 | 87133 | 20.80 UG/L. | 92 |
| 63) | 2-chlorotoluene | 22.38 | 126 | 64751 | 21.64 UG/L. | 98 |
| 64) | 4-chlorotoluene | 22.59 | 126 | 62144 | 21.21 UG/L | 98 |
| 65) | tert-butylbenzene | 23.08 | 134 | 45791 | 20.66 UG/L. | 95 |
| 66) | 1,2,4-trimethylbenzene | 23.21 | 105 | 179901 | 22.22 UG/L. | 100 |
| 67) | sec-butylbenzene | 23.49 | 105 | 233630 | 20.64 UG/L. | 100 |
| 68) | 4-isopropyltoluene | 23.76 | 119 | 188447 | 21.47 UG/L. | 98 |
| 69) | 1,3-dichlorobenzene | 23.78 | 146 | 150590 | 21.06 UG/L. | 98 |
| 70) | 1,4-dichlorobenzene | 23.95 | 146 | 162813 | 22.25 UG/L. | 95 |
| 71) | n-butylbenzene | 24.51 | 91 | 169677 | 19.74 UG/L. | 98 |
| 72) | p-diethylbenzene | 24.48 | 119 | 94409 | 20.15 UG/L. | 100 |
| 73) | 1,2-dichlorobenzene | 24.66 | 146 | 176546 | 25.10 UG/L. | 97 |
| 74) | 1,2,4,5-tetramethylbenzene | 25.94 | 119 | 135181 | 23.18 UG/L. | 96 |
| 75) | 1,2-dibromo-3-chloropropan | 26.13 | 75 | 40509 | 21.46 UG/L. | 97 |
| 76) | 1,2,4-trichlorobenzene | 27.63 | 180 | 59280 | 20.42 UG/L. | 96 |
| 77) | hexachlorobutadiene | 27.85 | 225 | 56270 | 24.57 UG/L. | 95 |
| 78) | naphthalene | 28.09 | 128 | 114629 | 20.54 UG/L. | 98 |
| 79) | 1,2,3-trichlorobenzene | 28.52 | 180 | 51450 | 19.19 UG/L. | 99 |



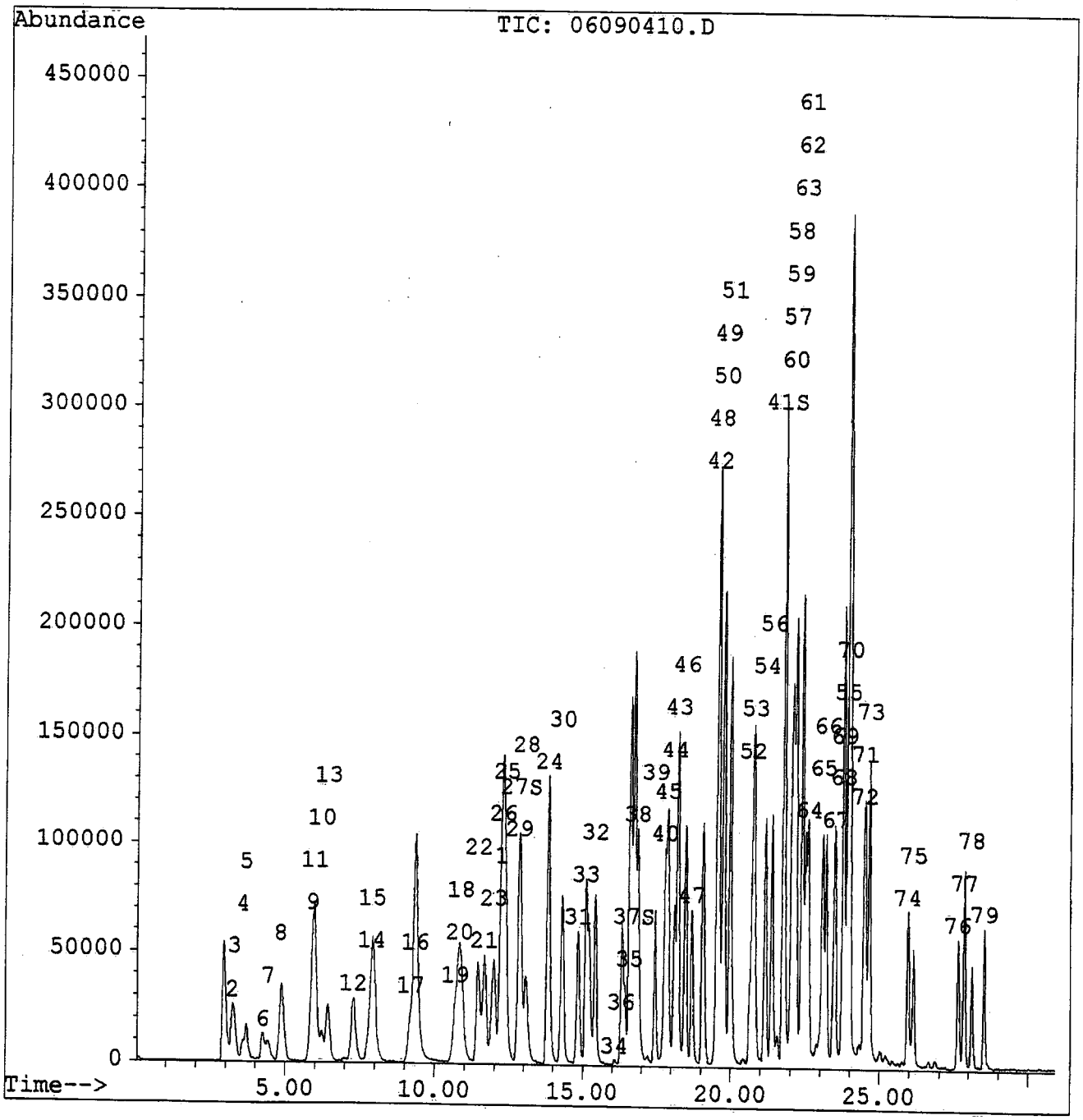
(#) = qualifier out of range (m) = manual integration
06090410.D VW060404.M Fri Jun 18 10:40:33 2004 GCMSV#2 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060904\06090410.D
Acq On : 9 Jun 104 3:17 pm
Sample : 242358.04 1ml 80% solid msd+20
Misc :
Quant Time: Jun 10 8:32 19104

Vial: 10
Operator: B . BOLLERMANI
Inst : GC/MS-V#2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VW060404.M
Title : Purgable Organics Methods 624, 8021, 8240, 8260
Last Update : Mon Jun 07 08:49:09 2004
Response via : Multiple Level Calibration

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PESTICIDES AND/OR PCB'S BY EPA METHODS 8081/8082 - QC DELIVERABLES

INCLUDING: CONFORMANCE/NONCONFORMANCE SUMMARIES, LABORATORY CHRONICAL, ANALYTICAL SUMMARY , MDLs & PQLs, METHOD BLANK SUMMARY, RETENTION TIME WINDOWS, RESPONSE FACTOR REPORT, STANDARD SUMMARY, SURROGATE COMPOUND RESULTS SUMMARY, MS/MSD RECOVERY RESULTS SUMMARY, QUANTIFICATION REPORTS AND CHROMATOGRAMS FOR ECOTEST SAMPLE Nos. 242358.03

## Conformance/Nonconformance Summary for Pesticides and/or PCBs

sample: 242358.03

QC criteria were met for the following unless stated otherwise:

Method blank

Surrogate recoveries

Matrix spike and matrix spike duplicate RPD
MS/MSD difference for lindane was above limits (9.2 vs 8.4)
MS/MSD difference for alpha BHC was above limits (12 vs 10)

Matrix spike and matrix spike duplicate % recoveries

Holding time

Initial instrument calibration and continuing calibration

## LAB CHRONICLE

| lab number | sample | date collected | date received | date of extraction | holding time (days) before extraction | date of analysis | holding time (days) after extraction |
|---|---|---|---|---|---|---|---|
| 242358.03 | Sludge, BBD-WC-B2-Pit-Furn. Pit | 6/1/04 | 6/2/04 | 6/3/04 | 2 | 06/8,9/04 | 5,6 |

Sample was received in good condition.

## ANALYTICAL RESULTS SUMMARY

instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m x 0.25 mm
confirmation column: Rtx-50, 30 m x 0.25 mm

| lab number | sample wt./vol. | dilution factor |
|---|---|---|
| 242358.03 | 5.0g | 40 |

Pesticides
instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m, 0.25 mm.

| compound | MDL ug/L | PQL ug/L |
|---|---|---|
| lindane | 0.002 | 0.05 |
| heptachlor | 0.004 | 0.05 |
| aldrin | 0.003 | 0.05 |
| heptachlor epoxide | 0.004 | 0.05 |
| pp DDE | 0.002 | 0.05 |
| dieldrin | 0.004 | 0.05 |
| endrin | 0.004 | 0.05 |
| pp DDD | 0.003 | 0.05 |
| pp DDT | 0.007 | 0.1 |
| endrin aldehyde | 0.002 | 0.3 |
| alpha BHC | 0.003 | 0.05 |
| beta BHC | 0.004 | 0.05 |
| delta BHC | 0.002 | 0.05 |
| endosulfan 1 | 0.005 | 0.1 |
| endosulfan 2 | 0.004 | 0.1 |
| endosulfan sulfate | 0.004 | 0.3 |

Pesticides
instrument: SVGC 2, H.P. 5890
confirmation column: Rtx-50, 30 m, 0.25 mm.

| compound | MDL ug/L | PQL ug/L |
|---|---|---|
| lindane | 0.004 | 0.05 |
| heptachlor | 0.007 | 0.05 |
| aldrin | 0.003 | 0.05 |
| heptachlor epoxide | 0.005 | 0.05 |
| pp DDE | 0.004 | 0.05 |
| dieldrin | 0.004 | 0.05 |
| endrin | 0.008 | 0.05 |
| pp DDD | 0.004 | 0.05 |
| pp DDT | 0.008 | 0.1 |
| endrin aldehyde | 0.008 | 0.3 |
| alpha BHC | 0.004 | 0.05 |
| beta BHC | 0.005 | 0.05 |
| delta BHC | 0.007 | 0.05 |
| endosulfan 1 | 0.005 | 0.1 |
| endosulfan 2 | 0.009 | 0.1 |
| endosulfan sulfate | 0.01 | 0.3 |

## METHOD BLANK SUMMARY

instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m x 0.25 mm
confirmation column: Rtx-50, 30 m x 0.25 mm

| blank sample | date received | date extracted | date of analysis | sample volume | % moisture | dilution factor |
|---|---|---|---|---|---|---|
| sand blank | NA | 6/3/04 | 6/8/04 | 25g | <5 | 40 |

This method blank is associated with sample:
242358.03

## STANDARD SUMMARY

instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m x 0.25 mm
confirmation column: Rtx-50, 30 m x 0.25 mm

| standard | date | time |
|---|---|---|
| Pesticides Mix 0.05 ppb | 6/7/04 | 1247 |
| Pesticides Mix 0.4 ppb | 6/7/04 | 1353 |
| Pesticides Mix 0.8 ppb | 6/7/04 | 1500 |
| Pesticides Mix 1.2 ppb | 6/7/04 | 1615 |
| Pesticides Mix 1.6 ppb | 6/7/04 | 1722 |
| Pesticides Mix 2.0 ppb | 6/7/04 | 1828 |
| Surrogate Std. | 6/7/04 | 1935 |
| Chlordane 0.2 ppb | 6/8/04 | 0426 |
| Toxaphene 2.0 ppb | 6/8/04 | 0532 |
| Chlordane 2.0 ppb | 6/8/04 | 1212 |
| Chlordane 0.2 ppb | 6/8/04 | 1319 |
| Chlordane 1.0 ppb | 6/8/04 | 1425 |
| Chlordane 3.0 ppb | 6/8/04 | 1933 |
| Chlordane 4.0 ppb | 6/8/04 | 2039 |
| Chlordane 5.0 ppb | 6/8/04 | 2145 |
| Aroclor 1254 reference | 6/9/04 | 0849 |
| Aroclor 1254 9.0 ppb | 6/9/04 | 1208 |
| Pesticides reference | 6/9/04 | 1502 |

These standards are associated with samples:
242358.03, method blank, MS, MSD.

| pesticide & PCB target compounds |
| --- |
| aldrin |
| alpha BHC |
| beta BHC |
| delta BHC |
| lindane |
| pp DDD |
| pp DDE |
| pp DDT |
| dieldrin |
| endosulfan 1 |
| endosulfan 2 |
| endosulfan sulfate |
| endrin |
| endrin aldehyde |
| heptachlor |
| heptachlor epoxide |
| methoxychlor |
| endrin ketone |
| chlordane |
| toxaphene |
| aroclor 1016 |
| aroclor 1221 |
| aroclor 1232 |
| aroclor 1242 |
| aroclor 1248 |
| aroclor 1254 |
| aroclor 1260 |

PESTICIDES RETENTION TIME WINDOWS

instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m, 0.25 mm

| compound | retention time | retention time window from | to |
|---|---|---|---|
| alpha BHC | 17.44 | 17.44 | 17.44 |
| lindane | 18.64 | 18.64 | 18.64 |
| heptachlor | 21.15 | 21.15 | 21.15 |
| aldrin | 22.38 | 22.34 | 22.41 |
| beta BHC | 18.39 | 18.38 | 18.41 |
| delta BHC | 19.45 | 19.45 | 19.45 |
| heptachlor epoxide | 23.68 | 23.68 | 23.68 |
| endosulfan 1 | 25.07 | 25.07 | 25.07 |
| pp DDE | 25.60 | 25.58 | 25.61 |
| dieldrin | 26.15 | 26.15 | 26.15 |
| endrin | 27.24 | 27.24 | 27.24 |
| pp DDD | 27.56 | 27.56 | 27.56 |
| endosulfan 2 | 27.65 | 27.65 | 27.65 |
| pp DDT | 29.63 | 29.63 | 29.63 |
| endrin aldehyde | 28.59 | 28.58 | 28.61 |
| endosulfan sulfate | 29.93 | 29.91 | 29.94 |
| methoxychlor | 33.34 | 33.31 | 33.38 |

PESTICIDES RETENTION TIME WINDOWS

instrument: SVGC 2, H.P. 5890
confirmation column: Rtx-50, 30 m, 0.25 mm

| compound | retention time | retention time window from | to |
|---|---|---|---|
| alpha BHC | 21.63 | 21.63 | 21.63 |
| lindane | 23.24 | 23.24 | 23.24 |
| heptachlor | 24.43 | 24.42 | 24.45 |
| aldrin | 26.00 | 26.00 | 26.00 |
| beta BHC | 23.91 | 23.91 | 23.91 |
| delta BHC | 25.16 | 25.15 | 25.18 |
| heptachlor epoxide | 29.04 | 29.03 | 29.06 |
| endosulfan 1 | 31.56 | 31.55 | 31.58 |
| pp DDE | 32.36 | 32.36 | 32.36 |
| dieldrin | 34.17 | 34.15 | 34.18 |
| endrin | 37.53 | 37.51 | 37.54 |
| pp DDD | 37.86 | 37.82 | 37.89 |
| endosulfan 2 | 40.20 | 40.19 | 40.22 |
| pp DDT | 41.35 | 41.34 | 41.37 |
| endrin aldehyde | 44.08 | 44.04 | 44.11 |
| endosulfan sulfate | 46.42 | 46.37 | 46.47 |
| methoxychlor | 56.07 | 56.06 | 56.09 |

Response Factor Report SVGC2

Method : C:\HPCHEM\5\METHODS\RMP0607.M
Title : Restek 608 pesticides
Last Update : Tue Jun 08 08:57:37 2004
Response via : Initial Calibration

Calibration Files
0.05 =06070401.D 0.40 =06070402.D 0.80 =06070403.D
1.2 =06070404.D 1.6 =06070405.D 2.0 =06070406.D

| | | Compound | 0.05 | 0.40 | 0.80 | 1.2 | 1.6 | 2.0 | Avg | %RS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | S1 | tetrachloro-m-xylen | | | | | | | 6.8 E3 | 0.0 |
| 2) | | alpha BHC | 195.8 | 339.0 | 395.8 | 438.4 | 450.6 | 439.9 | 376.6 E3 | 25.9 |
| 3) | | lindane | 212.9 | 324.5 | 375.7 | 410.7 | 418.5 | 406.0 | 358.1 E3 | 22.0 |
| 4) | | heptachlor | 264.4 | 305.6 | 333.0 | 368.6 | 366.5 | 358.2 | 332.7 E3 | 12.3 |
| 5) | | aldrin | 217.1 | 303.9 | 283.8 | 293.9 | 0.0 | 308.5 | 234.6 E3 | 51.0 |
| 6) | | beta BHC | 151.2 | 180.7 | 194.7 | 206.2 | 206.6 | 199.2 | 189.8 E3 | 11.1 |
| 7) | | delta BHC | 172.7 | 284.4 | 341.4 | 386.2 | 392.5 | 387.8 | 327.5 E3 | 26.3 |
| 8) | | heptachlor epoxide | 290.5 | 343.5 | 364.4 | 397.6 | 395.6 | 388.1 | 363.3 E3 | 11.3 |
| 9) | | endosulfan 1 | 274.6 | 323.9 | 346.7 | 377.1 | 380.0 | 373.8 | 346.0 E3 | 11.9 |
| 10) | | pp DDE | 237.8 | 293.2 | 331.7 | 377.7 | 386.0 | 387.4 | 335.6 E3 | 18.0 |
| 11) | | dieldrin | 254.4 | 304.2 | 337.9 | 380.1 | 391.8 | 390.3 | 343.1 E3 | 16.1 |
| 12) | | endrin | 106.2 | 109.4 | 117.1 | 125.5 | 128.2 | 128.3 | 119.1 E3 | 8.1 |
| 13) | | pp DDD | 190.0 | 209.1 | 244.0 | 280.1 | 287.6 | 293.1 | 250.7 E3 | 17.3 |
| 14) | | endosulfan 2 | 290.4 | 305.7 | 325.9 | 340.4 | 356.1 | 343.3 | 327.0 E3 | 7.6 |
| 15) | | pp DDT | 169.5 | 214.7 | 232.2 | 264.9 | 293.3 | 280.3 | 242.5 E3 | 19.0 |
| 16) | | endrin aldehyde | 219.1 | 258.6 | 258.4 | 275.9 | 288.0 | 277.2 | 262.9 E3 | 9.2 |
| 17) | S2 | dibutyl chlorendate | | | | | | | 7.2 E3 | 0.0 |
| 18) | | endosulfan sulfate | 248.9 | 279.1 | 286.2 | 307.0 | 327.3 | 315.1 | 293.9 E3 | 9.6 |
| 19) | | methoxychlor | 117.7 | 136.8 | 135.5 | 146.4 | 152.6 | 146.4 | 139.2 E3 | 8.8 |

Signal #2 Calibration Files
0.05 =CONFIRM.D 0.40 =CONFIRM.D 0.80 =CONFIRM.D
1.2 =CONFIRM.D 1.6 =CONFIRM.D 2.0 =CONFIRM.D

| | | Compound | 0.05 | 0.40 | 0.80 | 1.2 | 1.6 | 2.0 | Avg | %RS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | S1 | tetrachloro-m-xylen | | | | | | | 7.0 E3 | 0.0 |
| 2) | | alpha BHC | 231.3 | 360.5 | 412.6 | 447.6 | 451.3 | 457.1 | 393.4 E3 | 22.1 |
| 3) | | lindane | 233.1 | 335.0 | 379.8 | 408.5 | 411.2 | 420.2 | 364.6 E3 | 19.6 |
| 4) | | heptachlor | 265.7 | 312.0 | 314.5 | 337.8 | 345.3 | 355.0 | 321.7 E3 | 10.0 |
| 5) | | aldrin | 220.0 | 309.9 | 320.9 | 341.8 | 359.3 | 350.0 | 317.0 E3 | 16.0 |
| 6) | | beta BHC | 167.4 | 182.0 | 193.9 | 203.8 | 204.2 | 204.5 | 192.6 E3 | 7.8 |
| 7) | | delta BHC | 193.7 | 291.6 | 344.3 | 378.8 | 385.9 | 391.7 | 331.0 E3 | 23.2 |
| 8) | | heptachlor epoxide | 265.7 | 327.1 | 332.1 | 340.1 | 344.5 | 341.5 | 325.2 E3 | 9.1 |
| 9) | | endosulfan 1 | 254.4 | 306.9 | 310.8 | 327.9 | 331.1 | 329.0 | 310.0 E3 | 9.3 |
| 10) | | pp DDE | 228.2 | 286.8 | 308.5 | 338.2 | 344.2 | 346.8 | 308.8 E3 | 14.8 |
| 11) | | dieldrin | 234.7 | 304.9 | 322.4 | 349.9 | 354.3 | 357.8 | 320.7 E3 | 14.6 |
| 12) | | endrin | 160.4 | 192.7 | 204.9 | 218.8 | 220.5 | 227.2 | 204.1 E3 | 12.1 |
| 13) | | pp DDD | 124.3 | 185.2 | 0.0 | 253.3 | 0.0 | 269.6 | 138.7 E3 | 85.9 |
| 14) | | endosulfan 2 | 259.4 | 299.9 | 308.0 | 322.1 | 319.6 | 320.3 | 304.9 E3 | 7.8 |
| 15) | | pp DDT | 169.2 | 207.3 | 224.1 | 255.0 | 270.7 | 274.6 | 233.5 E3 | 17.6 |
| 16) | | endrin aldehyde | 218.9 | 255.6 | 253.0 | 269.5 | 272.1 | 272.4 | 256.9 E3 | 7.9 |
| 17) | S2 | dibutyl chlorendate | | | | | | | 6.1 E3 | 0.0 |



(#) = Out of Range ### Number of calibration levels exceeded format ###
RMP0607.M Thu Jun 10 14:26:35 2004 Page 1

Response Factor Report SVGC2

Method : C:\HPCHEM\5\METHODS\RMP0607.M
Title : Restek 608 pesticides
Last Update : Tue Jun 08 08:57:37 2004
Response via : Initial Calibration

Calibration Files
0.05 =CONFIRM.D 0.40 =CONFIRM.D 0.80 =CONFIRM.D
1.2 =CONFIRM.D 1.6 =CONFIRM.D 2.0 =CONFIRM.D

| | Compound | 0.05 | 0.40 | 0.80 | 1.2 | 1.6 | 2.0 | Avg | | %RS |
|---|---|---|---|---|---|---|---|---|---|---|
| 18) | endosulfan sulfate | 231.3 | 269.2 | 265.4 | 284.1 | 288.0 | 288.8 | 271.1 | E3 | 8.0 |
| 19) | methoxychlor | 126.8 | 152.6 | 152.0 | 165.3 | 171.1 | 173.5 | 156.9 | E3 | 11.0 |



(#) = Out of Range ### Number of calibration levels exceeded format ###
RMP0607.M Thu Jun 10 14:26:37 2004

Response Factor Report SVGC2

Method : C:\HPCHEM\5\METHODS\CDAN0607.M
Title : 608 chlordane
Last Update : Wed Jun 09 09:32:20 2004
Response via : Initial Calibration

Calibration Files
0.2 =06070422.D 1.0 =06070423.D 2.0 =06070421.D
3.0 =06070427.D 4.0 =06070428.D 5.0 =06070429.D

| | | Compound | 0.2 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | Avg | %RS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | S | surrogate | | | | | | | 5.7 E3 | 0.0 |
| 2) | L | chlordane(1) | 55.6 | 55.1 | 56.1 | 60.0 | 62.0 | 60.3 | 49.9 E3 | 44.4 |
| 3) | L | chlordane(2) | 140.5 | 76.0 | 72.5 | 82.1 | 85.8 | 83.6 | 77.2 E3 | 53.2 |
| 4) | L | chlordane(3) | 165.2 | 187.4 | 169.5 | 207.9 | 196.6 | 201.5 | 161.1 E3 | 45.1 |
| 5) | L | chlordane(4) | 96.6 | 114.3 | 0.0 | 108.6 | 126.1 | 121.4 | 81.0 E3 | 69.2 |
| 6) | L | chlordane(5) | 136.0 | 148.6 | 145.2 | 165.6 | 173.0 | 166.6 | 133.6 E3 | 45.2 |

Signal #2 Calibration Files
0.2 =CONFIRM.D 1.0 =CONFIRM.D 2.0 =CONFIRM.D
3.0 =CONFIRM.D 4.0 =CONFIRM.D 5.0 =CONFIRM.D

| | | Compound | 0.2 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | Avg | %RS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | S | surrogate | | | | | | | 4.5 E3 | 0.0 |
| 2) | L | chlordane(6) | 53.4 | 67.7 | 0.0 | 65.3 | 65.2 | 65.9 | 45.4 E3 | 69.0 |
| 3) | L | chlordane(7) | 45.6 | 49.1 | 0.0 | 48.8 | 48.0 | 47.7 | 34.2 E3 | 68.3 |
| 4) | L | chlordane(8) | 173.5 | 109.8 | 0.0 | 147.9 | 134.6 | 143.6 | 101.3 E3 | 70.7 |
| 5) | L | chlordane(9) | 137.6 | 165.6 | 0.0 | 179.5 | 181.4 | 181.4 | 120.8 E3 | 69.4 |
| 6) | L | chlordane(10) | 111.5 | 118.4 | 0.0 | 126.6 | 126.8 | 125.7 | 87.0 E3 | 68.6 |



(#) = Out of Range ### Number of calibration levels exceeded format ###
CDAN0607.M Thu Jun 10 14:30:10 2004

Response Factor Report SVGC2

Method : C:\HPCHEM\5\METHODS\12540527.M
Title : aroclor 1254
Last Update : Mon Jun 07 08:39:25 2004
Response via : Initial Calibration

Calibration Files
1.0 =05270482.D 3.0 =05270483.D 6.0 =05270484.D
9.0 =05270485.D 100 =08010101.D

| | Compound | 1.0 | 3.0 | 6.0 | 9.0 | 100 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|
| 1) L | 1254(1) | 88.7 | 93.7 | 0.0 | 81.5 | | 66.0 E3 | 67.10 |
| 2) L | 1254(2) | 128.7 | 137.1 | 129.4 | 128.4 | | 130.9 E3 | 3.17 |
| 3) L | 1254(3) | 101.3 | 102.4 | 101.2 | 96.4 | | 100.3 E3 | 2.65 |
| 4) L | 1254(4) | 76.1 | 67.4 | 65.4 | 61.6 | | 67.6 E3 | 9.05 |
| 5) L | 1254(5) | 112.6 | 118.8 | 100.7 | 106.1 | | 109.5 E3 | 7.18 |

Signal #2 Calibration Files
1.0 =CONFIRM.D 3.0 =CONFIRM.D 6.0 =CONFIRM.D
9.0 =CONFIRM.D 100 =CONFIRM.D

| | Compound | 1.0 | 3.0 | 6.0 | 9.0 | 100 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|
| 1) L | 1254(6) | 42.9 | 43.4 | 0.0 | 38.0 | | 31.0 E3 | 67.13 |
| 2) L | 1254(7) | 78.7 | 75.7 | 73.9 | 68.6 | | 74.2 E3 | 5.73 |
| 3) L | 1254(8) | 124.2 | 123.2 | 110.8 | 114.1 | | 118.1 E3 | 5.64 |
| 4) L | 1254(9) | 97.6 | 101.1 | 88.5 | 86.7 | | 93.5 E3 | 7.47 |
| 5) L | 1254(10) | 109.7 | 112.2 | 106.3 | 101.2 | | 107.3 E3 | 4.41 |



(#) = Out of Range
12540527.M Thu Jun 10 14:29:29 2004

## SURROGATE RECOVERY SUMMARY

method: 8081
surrogate: dibutyl chlorendate 2 ppb

| sample | matrix | % recovery |
|---|---|---|
| method blank | SOIL | 91 |
| MS | SOIL | 87 |
| MSD | SOIL | 70 |
| 242358.03 | SOIL | diluted out |

% recovery limits

| | SOIL |
|---|---|
| UCL | 144 |
| UWL | 126 |
| LWL | 54 |
| LCL | 36 |

## MS/MSD SUMMARY

method: 8081

| compound | unspiked conc. (ug/Kg) | spike conc. (ug/Kg) | sand MS conc. (ug/Kg) | MS % rec. | sand MSD conc. (ug/Kg) | MSD % rec. | % rec. limits | MS,MSD difference | difference limit |
|---|---|---|---|---|---|---|---|---|---|
| lindane | 0 | 40 | 21.2 | 53% | 30.4 | 76% | 41-127 | 9.2 | 8.4 |
| heptachlor | 0 | 40 | 21.2 | 53% | 30.0 | 75% | 27-138 | 8.8 | 10.4 |
| aldrin | 0 | 40 | 23.2 | 58% | 30.8 | 77% | 37-130 | 7.6 | 11.6 |
| heptachlor epoxide | 0 | 40 | 33.6 | 84% | 34.8 | 87% | 46-134 | 1.2 | 8.4 |
| pp DDE | 0 | 40 | 34.0 | 85% | 32.0 | 80% | 38-139 | 2.0 | 9.2 |
| dieldrin | 0 | 40 | 36.0 | 90% | 34.4 | 86% | 57-132 | 1.6 | 14.4 |
| endrin | 0 | 40 | 37.2 | 93% | 36.0 | 90% | 35-154 | 1.2 | 14.0 |
| pp DDD | 0 | 40 | 36.0 | 90% | 31.2 | 78% | 27-168 | 4.8 | 11.6 |
| pp DDT | 0 | 40 | 34.8 | 87% | 31.6 | 79% | 9-153 | 3.2 | 7.6 |
| endrin aldehyde | 0 | 40 | 37.2 | 93% | 29.6 | 74% | 34-123 | 7.6 | 12.0 |
| alpha BHC | 0 | 40 | 18.4 | 46% | 30.4 | 76% | 39-127 | 12.0 | 10.0 |
| beta BHC | 0 | 40 | 29.6 | 74% | 30.4 | 76% | 39-138 | 0.8 | 7.6 |
| delta BHC | 0 | 40 | 33.6 | 84% | 33.2 | 83% | 47-143 | 0.4 | 7.2 |
| endosulfan 1 | 0 | 40 | 34.8 | 87% | 33.6 | 84% | 41-136 | 1.2 | 12.0 |
| endosulfan 2 | 0 | 40 | 38.4 | 96% | 33.2 | 83% | 37-150 | 5.2 | 18.0 |
| endosulfan sulfate | 0 | 40 | 38.4 | 96% | 32.4 | 81% | 49-139 | 6.0 | 11.2 |

## Chromatograms for samples:

Method Blank
242358.03

Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704\06070430.D Vial: 30
Signal #2 : C:\HPCHEM\5\DATA\060704\06070430.D\CONFIRM.D
Acq On : 08 Jun 04 10:52 PM Operator: GW
Sample : met blank x40 Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 10:24 19104

Method : C:\HPCHEM\5\METHODS\RMP0607.M
Title : Restek 608 pesticides
Last Update : Tue Jun 08 08:57:37 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | Conc#1 | Conc#2 | |
|---|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | | |
| 1) | S1 tetrachloro-m-xylene | 18.92 | 15.93 | 534610 | 591710 | 79.17 | 84.58 | |
| 17) | S2 dibutyl chlorendate | 47.91 | 35.97 | 568482 | 550171 | 79.50 | 90.65 | |
| | Target Compounds | | | | | | | |
| 2) | alpha BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. | |
| 3) | lindane | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. | |
| 4) | heptachlor | 24.41 | 0.00 | 678 | 0 | 0.04 | N.D. | # |
| 5) | aldrin | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. | |
| 6) | beta BHC | 23.89 | 0.00 | 1611 | 0 | 0.03 | N.D. | # |
| 7) | delta BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. | |
| 8) | heptachlor epoxide | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. | |
| 9) | endosulfan 1 | 0.00 | 25.01f | 0 | 1560 | N.D. | 0.03 | # |
| 10) | pp DDE | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. | |
| 11) | dieldrin | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. | |
| 12) | endrin | 37.51 | 0.00 | 1141 | 0 | 0.05 | N.D. | # |
| 13) | pp DDD | 0.00 | 27.65f | 0 | 998 | N.D. | 0.08 | # |
| 14) | endosulfan 2 | 40.20 | 27.65 | 916 | 998 | 0.04 | 0.02 | # |
| 15) | pp DDT | 0.00 | 29.72f | 0 | 789 | N.D. | 0.09 | # |
| 16) | endrin aldehyde | 44.04 | 28.60 | 26184 | 1393 | 0.12 | 0.03 | # |
| 18) | endosulfan sulfate | 0.00 | 29.93 | 0 | 142 | N.D. | 0.03 | # |
| 19) | methoxychlor | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. | |



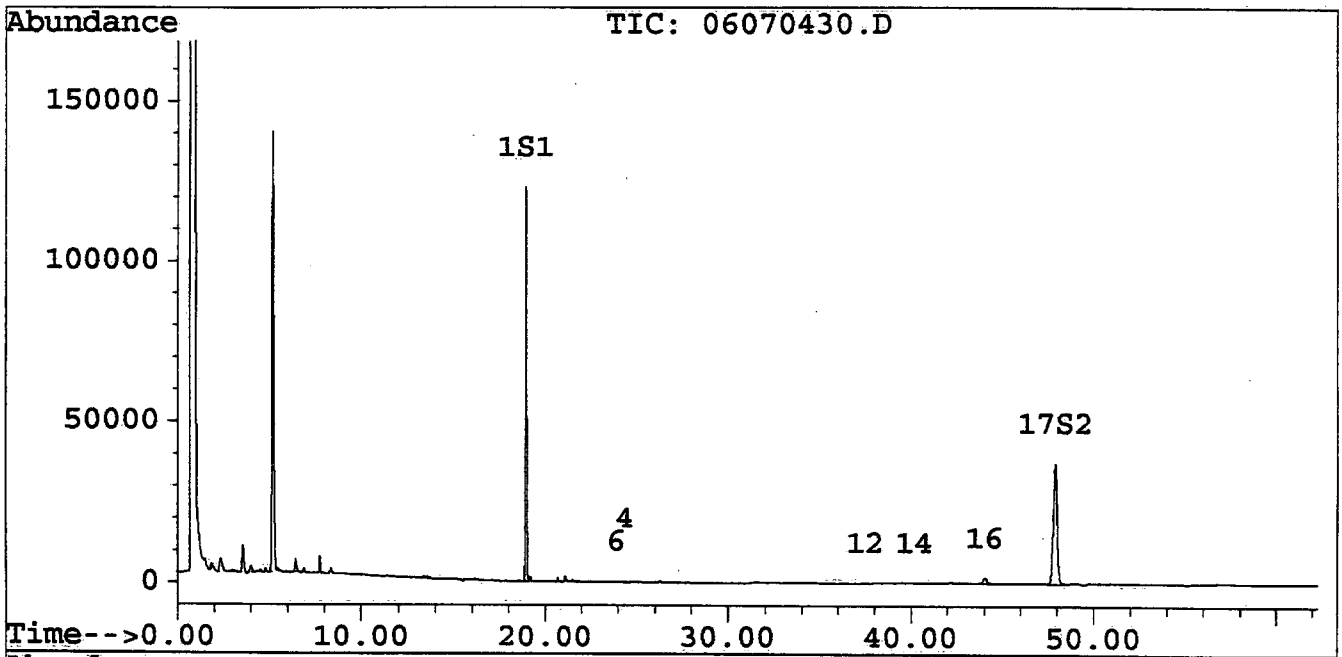
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
06070430.D RMP0607.M Thu Jun 10 14:25:19 2004 Page 1

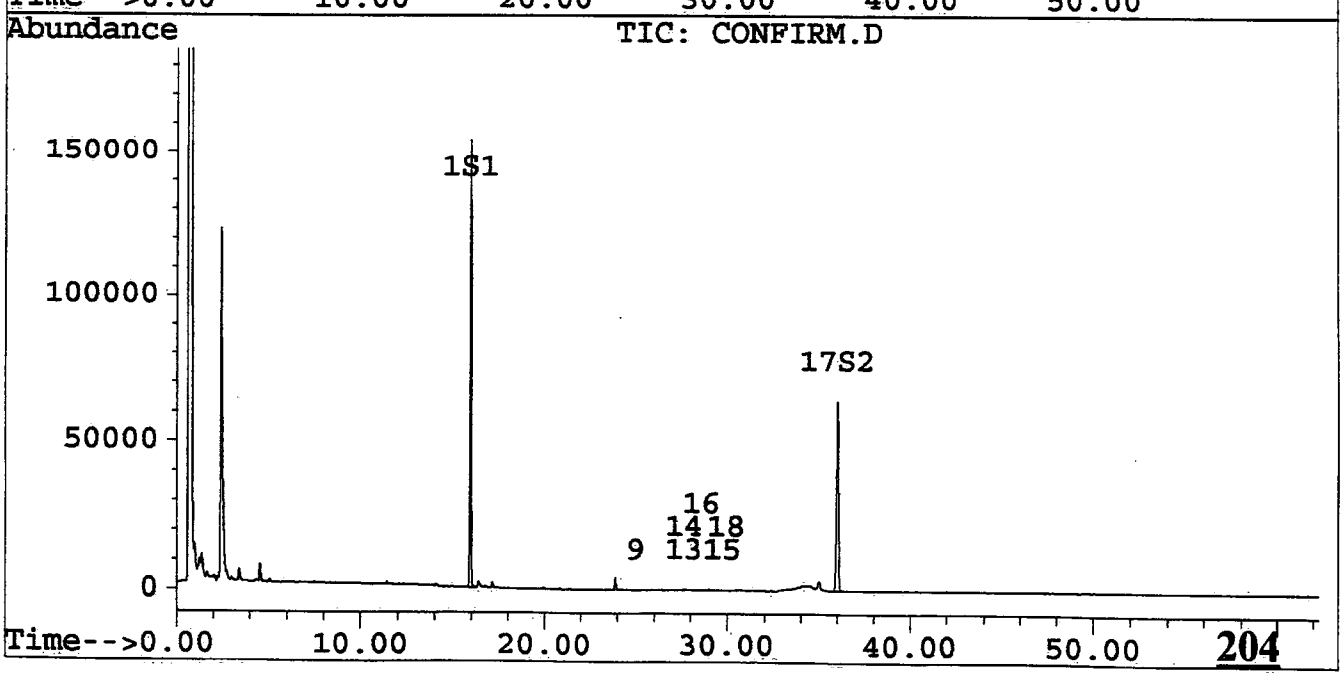
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704\06070430.D Vial: 30
Signal #2 : C:\HPCHEM\5\DATA\060704\06070430.D\CONFIRM.D
Acq On : 08 Jun 04 10:52 PM Operator: GW
Sample : met blank x40 Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 10:24 19104

Method : C:\HPCHEM\5\METHODS\RMP0607.M
Title : Restek 608 pesticides
Last Update : Tue Jun 08 08:57:37 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

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Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704\06070420.D Vial: 20
Signal #2 : C:\HPCHEM\5\DATA\060704\06070420.D\CONFIRM.D
Acq On : 08 Jun 04 09:58 AM Operator: GW
Sample : 2358.03 6% x1k Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 11:21 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | Conc#1 | Conc#2 |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | S1 tetrachloro-m-xylene | 18.96 | 15.95 | 108595 | 21122 | 16.08 | 3.02 # |
| 17) | S2 dibutyl chlorendate | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| | Target Compounds | | | | | | |
| 2) | alpha BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 3) | lindane | 23.24 | 18.63 | 10434 | 32029 | 0.08m | 0.14m# |
| 4) | heptachlor | 24.41 | 0.00 | 68924 | 0 | 0.23 | N.D.d# |
| 5) | aldrin | 26.00 | 0.00 | 37947 | 0 | 0.15 | N.D.d# |
| 6) | beta BHC | 23.93 | 0.00 | 234276 | 0 | 1.17 | N.D.d# |
| 7) | delta BHC | 25.09f | 0.00 | 7554 | 0 | 0.10 | N.D. # |
| 8) | heptachlor epoxide | 29.04 | 0.00 | 90216 | 0 | 0.26 | N.D.d# |
| 9) | endosulfan 1 | 0.00 | 25.09 | 0 | 245946 | N.D. | 0.76 # |
| 10) | pp DDE | 32.36 | 25.60 | 313668 | 279405 | 0.86m | 0.85m |
| 11) | dieldrin | 0.00 | 26.09f | 0 | 205293 | N.D. | 0.61 # |
| 12) | endrin | 0.00 | 27.23 | 0 | 213900 | N.D. | 0.98 # |
| 13) | pp DDD | 37.79f | 27.56 | 103898 | 36923 | 0.43 | 0.21m# |
| 14) | endosulfan 2 | 40.11f | 0.00 | 72229 | 0 | 0.24 | N.D.d# |
| 15) | pp DDT | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 16) | endrin aldehyde | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 18) | endosulfan sulfate | 0.00 | 30.00f | 0 | 190361 | N.D. | 0.68 # |
| 19) | methoxychlor | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |



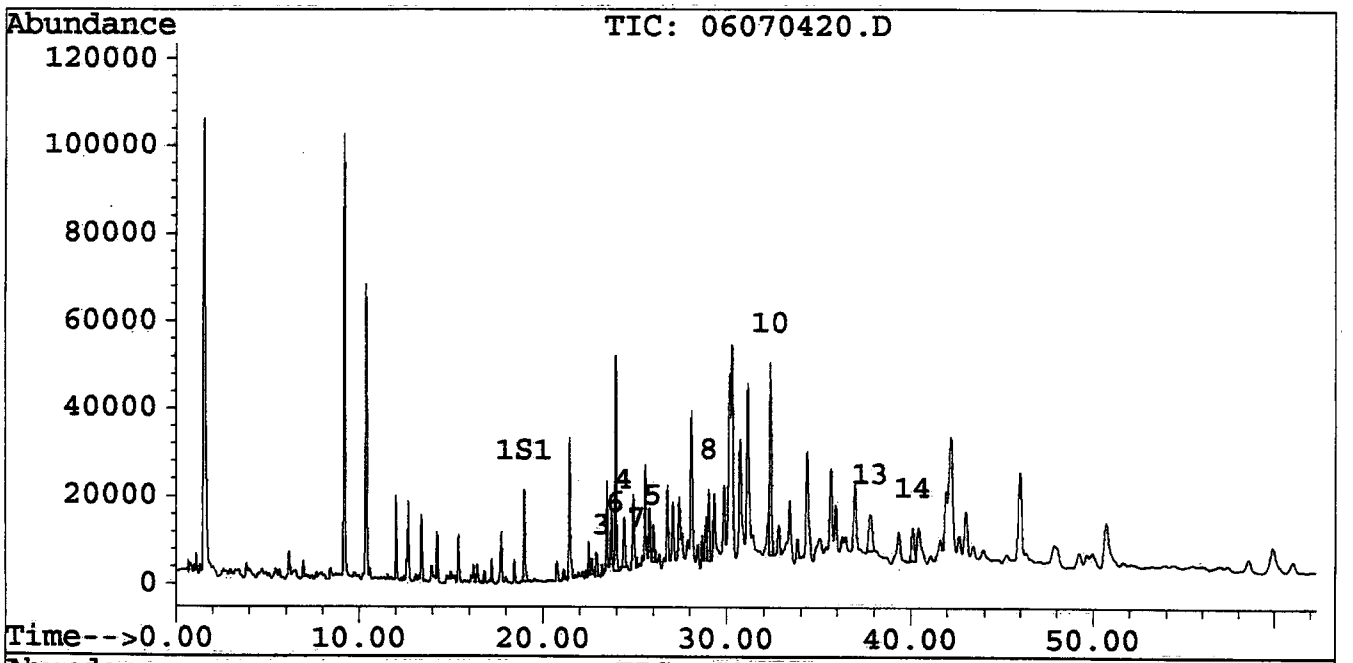
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
06070420.D RMP0527.M Thu Jun 10 11:29:11 2004 Page 1

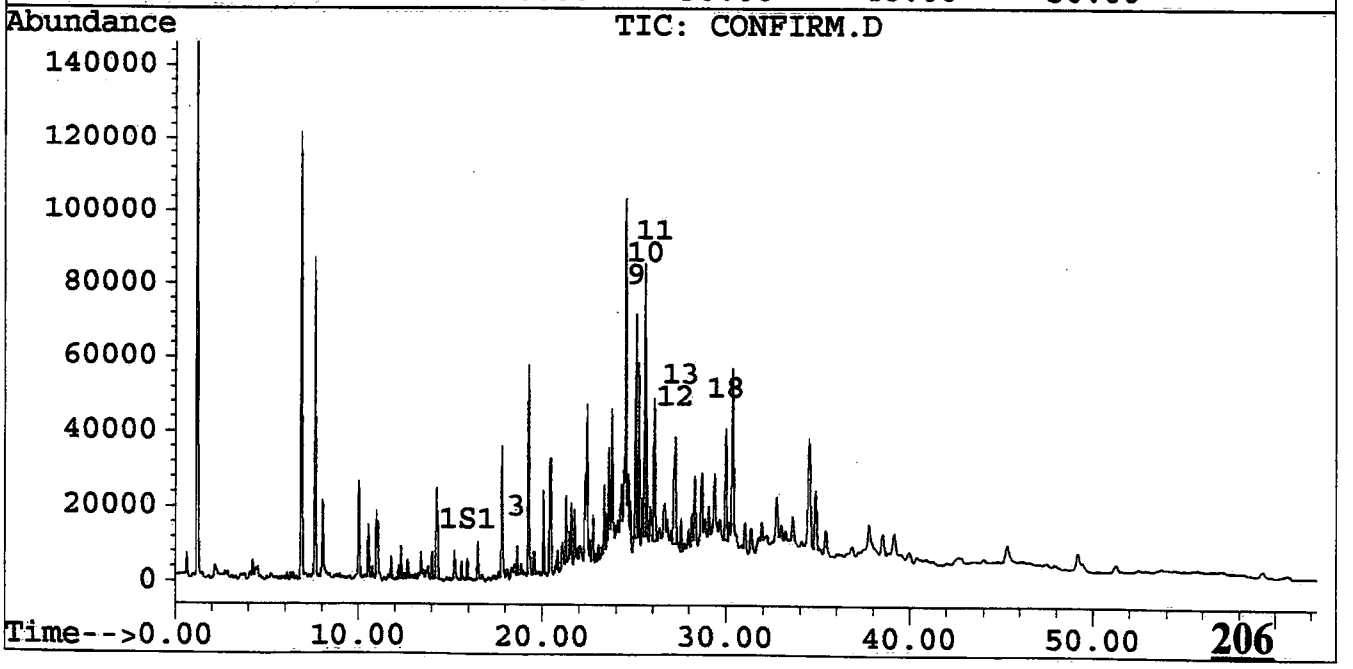
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704\06070420.D Vial: 20
Signal #2 : C:\HPCHEM\5\DATA\060704\06070420.D\CONFIRM.D
Acq On : 08 Jun 04 09:58 AM Operator: GW
Sample : 2358.03 6% x1k Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 11:21 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

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Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704A\06070420.D Vial: 20
Signal #2 : C:\HPCHEM\5\DATA\060704A\06070420.D\CONFIRM.D
Acq On : 08 Jun 04 09:58 AM Operator: GW
Sample : 2358.03 6% x1k Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 10 14:33 19104

Method : C:\HPCHEM\5\METHODS\12540527.M
Title : aroclor 1254
Last Update : Mon Jun 07 08:39:25 2004
Response via : Multiple Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| Target Compounds | | | | | |
| 1) L 1254(1) | 29.85 | 117627 | 1.42 | | |
| 2) L 1254(2) | 34.35 | 205368 | 1.59 | | m |
| 3) L 1254(3) | 35.63 | 155732 | 1.59 | | |
| 4) L 1254(4) | 36.95 | 143260 | 2.31 | | |
| 5) L 1254(5) | 41.92 | 139206 | 1.32 | | |
| Total 1254(1) | | 761193 | 8.24 | | |
| 7) L 1254(6) #2 | 21.59 | 60226 | 1.57 | | |
| 8) L 1254(7) #2 | 23.77 | 149994 | 2.16 | | m |
| 9) L 1254(8) #2 | 26.09 | 205293 | 1.81 | | |
| 10) L 1254(9) #2 | 27.23 | 131797 | 1.50 | | m |
| 11) L 1254(10) #2 | 30.00 | 190361 | 1.86 | | |
| Total 1254(6) #2 | | 737671 | 8.90 | | |



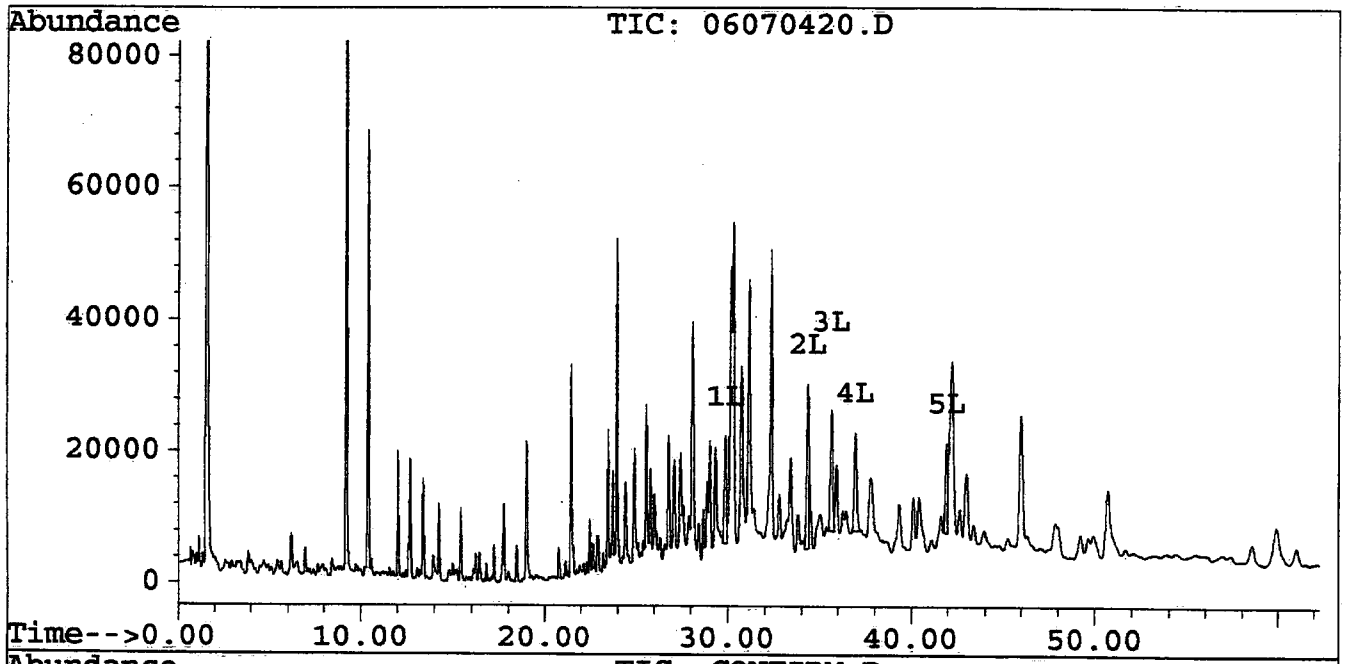
(f)=RT Delta > 1/2 Window (m)=manual int.
06070420.D 12540527.M Thu Jun 10 14:33:34 2004 Page 1

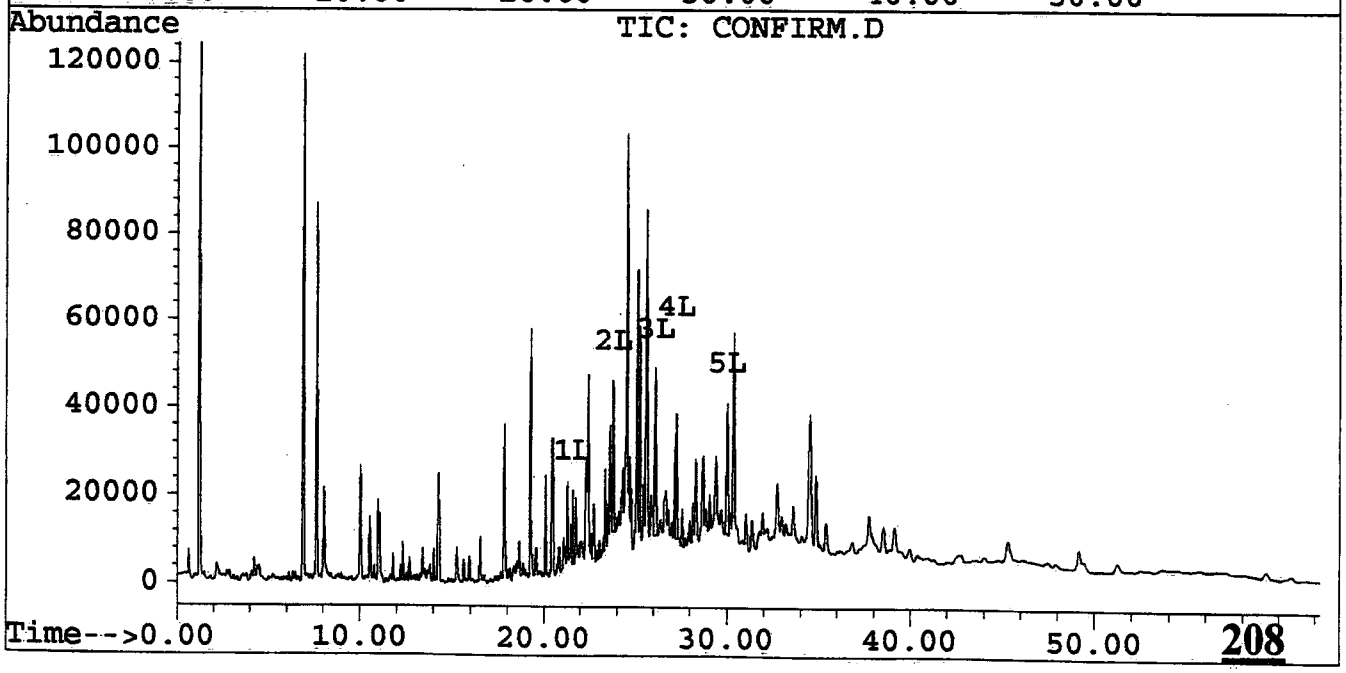
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704A\06070420.D Vial: 20
Signal #2 : C:\HPCHEM\5\DATA\060704A\06070420.D\CONFIRM.D
Acq On : 08 Jun 04 09:58 AM Operator: GW
Sample : 2358.03 6% x1k Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 10 14:33 19104

Method : C:\HPCHEM\5\METHODS\12540527.M
Title : aroclor 1254
Last Update : Mon Jun 07 08:39:25 2004
Response via : Multiple Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

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Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704A\06070426.D Vial: 26
Signal #2 : C:\HPCHEM\5\DATA\060704A\06070426.D\CONFIRM.D
Acq On : 08 Jun 04 06:26 PM Operator: GW
Sample : 2358.03 6% x4k Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 9:34 19104

Method : C:\HPCHEM\5\METHODS\CDAN0607.M
Title : 608 chlordane
Last Update : Wed Jun 09 09:32:20 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 1) S surrogate | 0.00 | 0 | N.D. | | |
| 8) S surrogate #2 | 0.00 | 0 | N.D. | | |
| Target Compounds | | | | | |
| 2) L chlordane(1) | 23.72 | 15631 | 0.27 | | |
| 3) L chlordane(2) | 26.77 | 31431 | 0.38 | | |
| 4) L chlordane(3) | 30.16 | 68822 | 0.36 | | |
| 5) L chlordane(4) | 30.28 | 111298 | 0.92 | | |
| 6) L chlordane(5) | 31.13 | 94295 | 0.57 | | |
| Total chlordane(1) | | 321477 | 2.50 | | |
| 9) L chlordane(6) #2 | 20.47 | 32089 | 0.49 | | m |
| 10) L chlordane(7) #2 | 22.35 | 37586 | 0.78 | | |
| 11) L chlordane(8) #2 | 24.52 | 100947 | 0.72 | | m |
| 12) L chlordane(9) #2 | 25.09 | 81298 | 0.46 | | |
| 13) L chlordane(10) #2 | 25.24 | 63086 | 0.50 | | |
| Total chlordane(6) #2 | | 315006 | 2.95 | | |



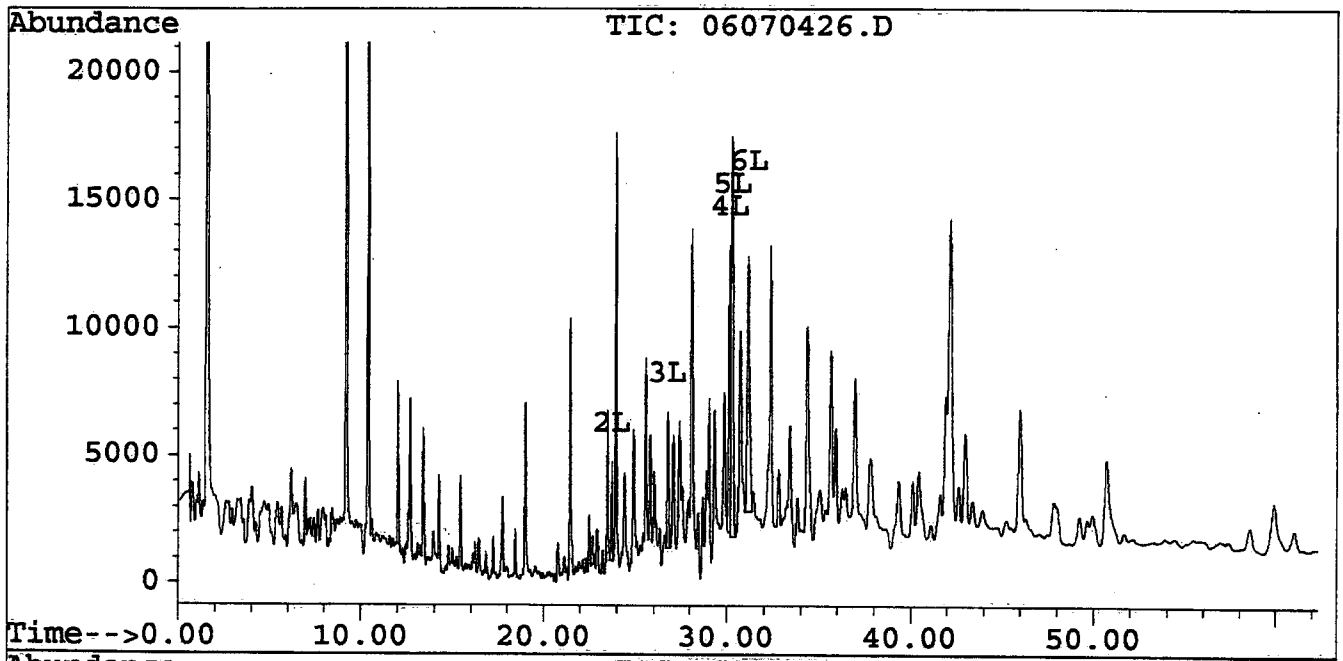
(f)=RT Delta > 1/2 Window (m)=manual int.
06070426.D CDAN0607.M Thu Jun 10 14:36:56 2004 Page 1

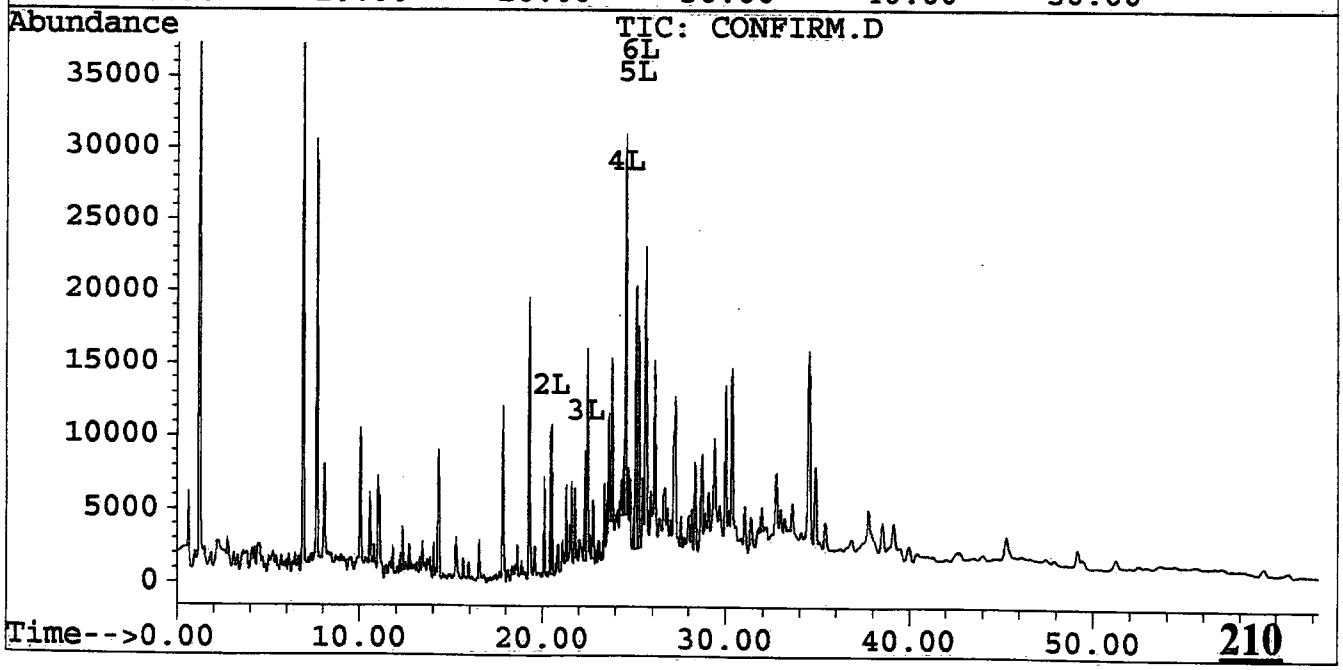
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704A\06070426.D Vial: 26
Signal #2 : C:\HPCHEM\5\DATA\060704A\06070426.D\CONFIRM.D
Acq On : 08 Jun 04 06:26 PM Operator: GW
Sample : 2358.03 6% x4k Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 9:34 19104

Method : C:\HPCHEM\5\METHODS\CDAN0607.M
Title : 608 chlordane
Last Update : Wed Jun 09 09:32:20 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704\06070437.D Vial: 37
Signal #2 : C:\HPCHEM\5\DATA\060704\06070437.D\CONFIRM.D
Acq On : 09 Jun 04 06:36 AM Operator: GW
Sample : 2358.03 15% x200 Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 8:26 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | Conc#1 | Conc#2 |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | S1 tetrachloro-m-xylene | 18.97f | 15.88f | 506510 | 981908 | 75.01 | 140.35 # |
| 17) | S2 dibutyl chlorendate | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| | Target Compounds | | | | | | |
| 2) | alpha BHC | 21.67 | 0.00 | 73134 | 0 | 0.23 | N.D.d# |
| 3) | lindane | 23.27 | 0.00 | 60169 | 0 | 0.20 | N.D. # |
| 4) | heptachlor | 24.47 | 0.00 | 132134 | 0 | 0.40 | N.D.d# |
| 5) | aldrin | 26.01 | 22.43 | 38524 | 1020822 | 0.15 | 2.88 # |
| 6) | beta BHC | 23.93 | 0.00 | 1043498 | 0 | 5.11 | N.D. # |
| 7) | delta BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 8) | heptachlor epoxide | 29.04 | 0.00 | 93278 | 0 | 0.27 | N.D.d# |
| 9) | endosulfan 1 | 0.00 | 25.09 | 0 | 453953 | N.D. | 1.39 # |
| 10) | pp DDE | 32.36 | 25.60 | 379492 | 348342 | 1.02m | 1.04m |
| 11) | dieldrin | 0.00 | 26.09f | 0 | 246644 | N.D. | 0.73 # |
| 12) | endrin | 0.00 | 27.16f | 0 | 64650 | N.D. | 0.33 # |
| 13) | pp DDD | 37.83 | 27.61f | 253643 | 184259 | 0.93 | 0.74 |
| 14) | endosulfan 2 | 40.12f | 27.61 | 62323 | 184259 | 0.21 | 0.59 # |
| 15) | pp DDT | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 16) | endrin aldehyde | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 18) | endosulfan sulfate | 0.00 | 30.00f | 0 | 353138 | N.D. | 1.24 # |
| 19) | methoxychlor | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |



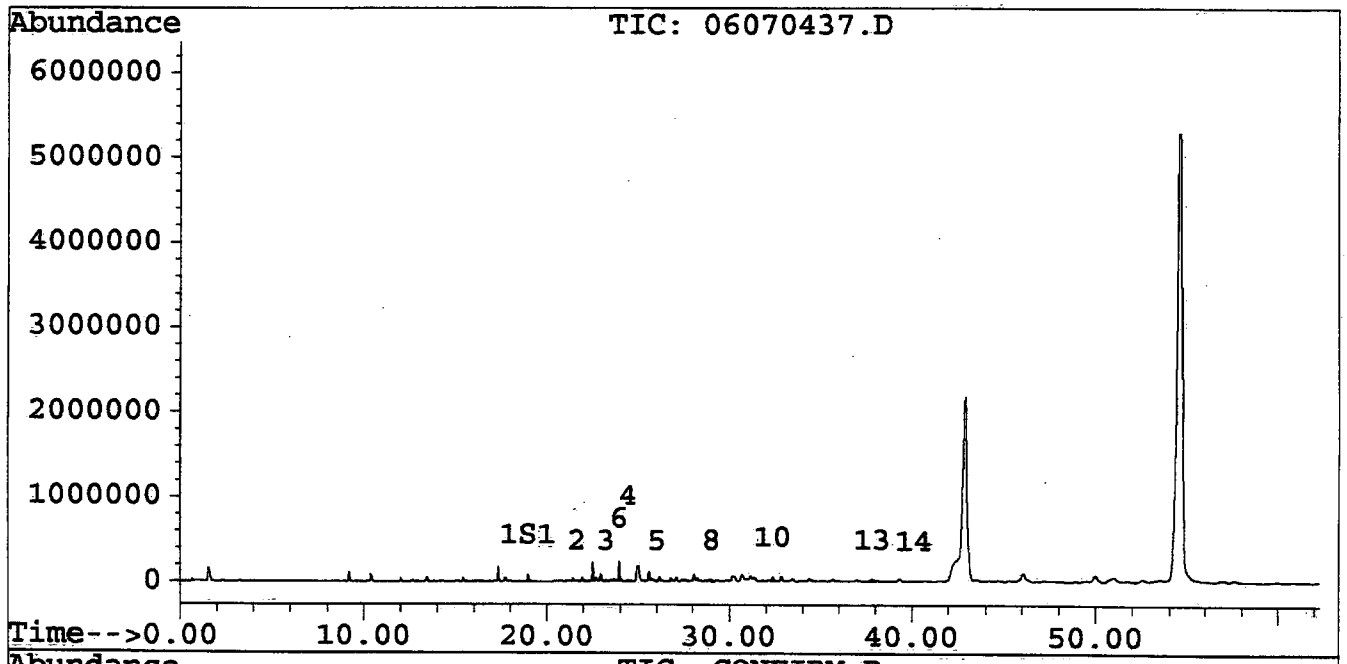
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
06070437.D RMP0527.M Thu Jun 10 11:31:13 2004 Page 1

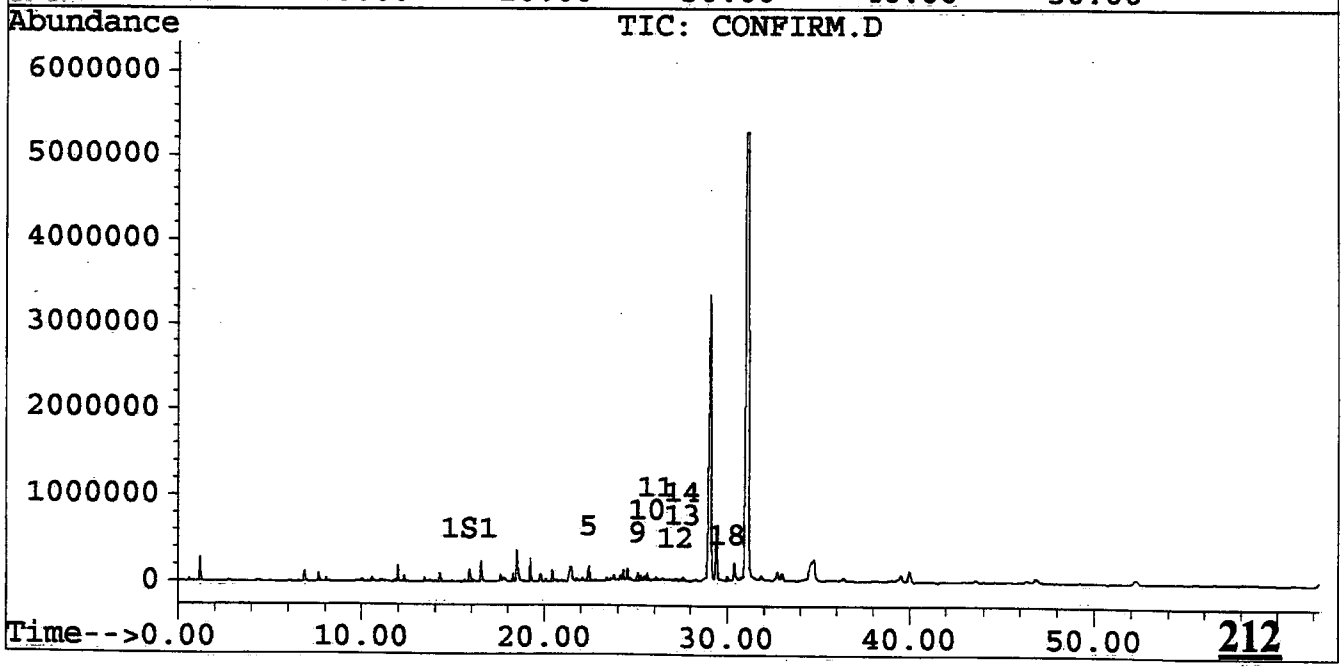
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704\06070437.D Vial: 37
Signal #2 : C:\HPCHEM\5\DATA\060704\06070437.D\CONFIRM.D
Acq On : 09 Jun 04 06:36 AM Operator: GW
Sample : 2358.03 15% x200 Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 8:26 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

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# Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704\06070438.D Vial: 38
Signal #2 : C:\HPCHEM\5\DATA\060704\06070438.D\CONFIRM.D
Acq On : 09 Jun 04 07:43 AM Operator: GW
Sample : 2358.03 50% x200 Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 8:54 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | Conc#1 | Conc#2 |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | S1 tetrachloro-m-xylene | 0.00 | 15.88f | 0 | 40434 | N.D. | 5.78 # |
| 17) | S2 dibutyl chlorendate | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| | Target Compounds | | | | | | |
| 2) | alpha BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 3) | lindane | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 4) | heptachlor | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 5) | aldrin | 0.00 | 22.40 | 0 | 72238 | N.D.d | 0.25 |
| 6) | beta BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 7) | delta BHC | 0.00 | 0.00 | 0 | 0 | N.D.d | N.D.d |
| 8) | heptachlor epoxide | 0.00 | 23.69 | 0 | 5881 | N.D. | 0.04 # |
| 9) | endosulfan 1 | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 10) | pp DDE | 0.00 | 25.49f | 0 | 433009 | N.D. | 1.28 # |
| 11) | dieldrin | 0.00 | 26.07f | 0 | 54723 | N.D. | 0.20 # |
| 12) | endrin | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 13) | pp DDD | 37.83 | 27.61f | 407406 | 509391 | 1.43m | 1.92m# |
| 14) | endosulfan 2 | 0.00 | 0.00 | 0 | 0 | N.D. | N.D.d |
| 15) | pp DDT | 41.35 | 0.00 | 218115 | 0 | 0.83 | N.D. # |
| 16) | endrin aldehyde | 0.00 | 28.65f | 0 | 97480 | N.D. | 0.38 # |
| 18) | endosulfan sulfate | 0.00 | 29.89 | 0 | 46147 | N.D. | 0.19 # |
| 19) | methoxychlor | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |



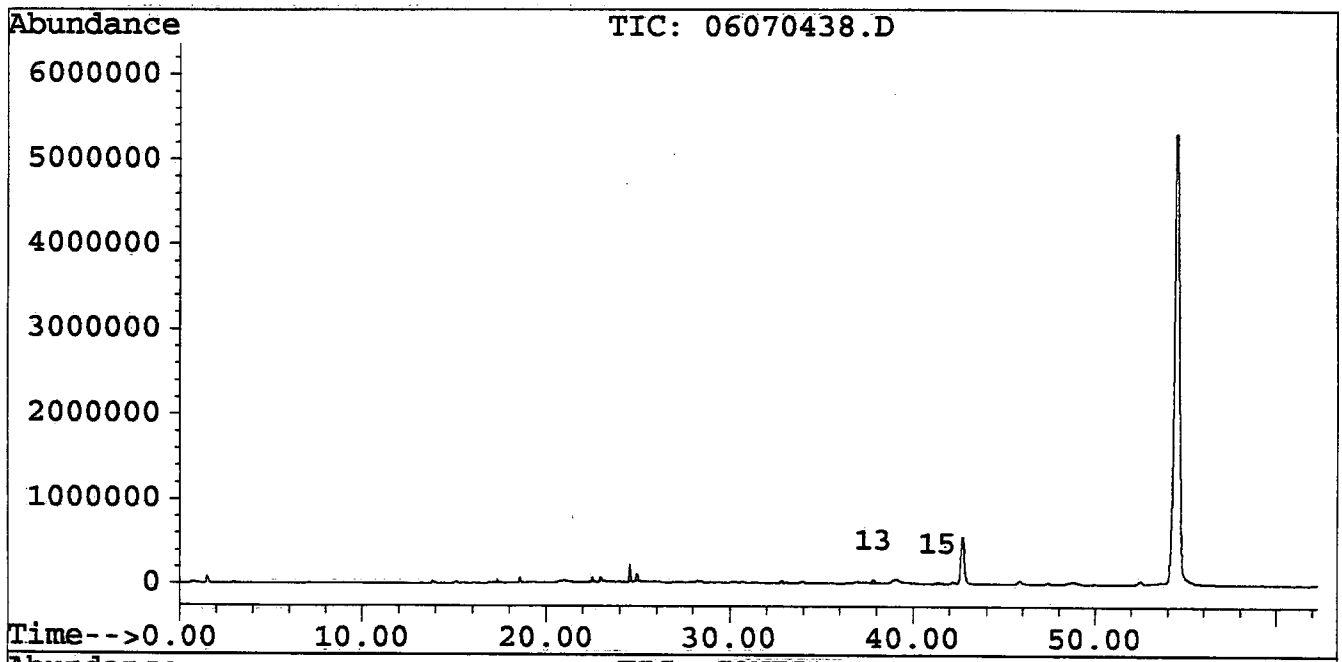
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
06070438.D RMP0527.M Thu Jun 10 11:32:04 2004 Page 1

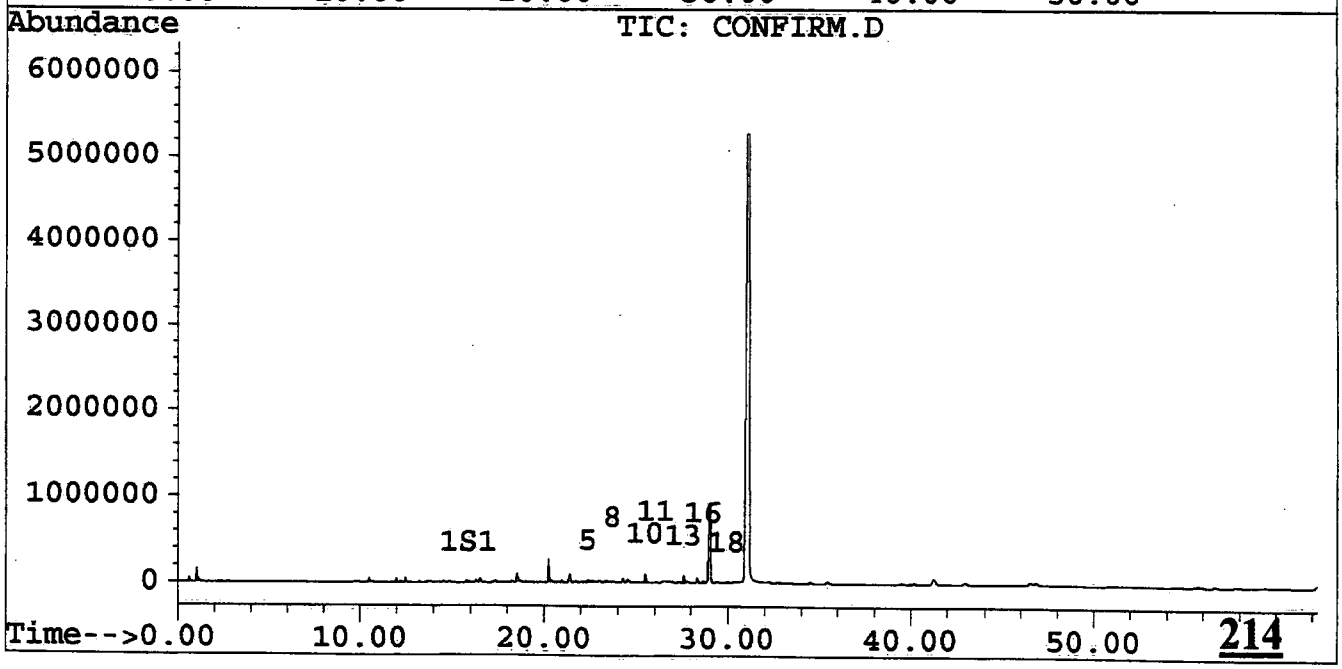
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\060704\06070438.D Vial: 38
Signal #2 : C:\HPCHEM\5\DATA\060704\06070438.D\CONFIRM.D
Acq On : 09 Jun 04 07:43 AM Operator: GW
Sample : 2358.03 50% x200 Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 9 8:54 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



PESTICIDES AND/OR PCB'S BY EPA METHODS 8081/8082 - QC DELIVERABLES

INCLUDING: CONFORMANCE/NONCONFORMANCE SUMMARIES, LABORATORY CHRONICAL, ANALYTICAL SUMMARY , MDLs & PQLs, METHOD BLANK SUMMARY, RETENTION TIME WINDOWS, RESPONSE FACTOR REPORT, STANDARD SUMMARY, SURROGATE COMPOUND RESULTS SUMMARY, MS/MSD RECOVERY RESULTS SUMMARY, QUANTIFICATION REPORTS AND CHROMATOGRAMS FOR ECOTEST SAMPLE Nos. 242358.04 TCLP

## Conformance/Nonconformance Summary for Pesticides on TCLP

sample: 242358.04

QC criteria were met for the following unless stated otherwise:

Method blank

Surrogate recoveries

Matrix spike and matrix spike duplicate RPD

Matrix spike and matrix spike duplicate % recoveries

Holding time

Initial instrument calibration and continuing calibration

## LAB CHRONICLE

| lab number | sample | date collected | date received | date of extraction | holding time (days) before extraction | date of analysis | holding time (days) after extraction |
|---|---|---|---|---|---|---|---|
| 242358.04 | extract, BBD-WC-Bldg. 8 Septic | 6/1/04 | 6/2/04 | 6/3/04 | 2 | 6/3/04 | 0 |

Sample was received in good condition.

## ANALYTICAL RESULTS SUMMARY

instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m x 0.25 mm
confirmation column: Rtx-50, 30 m x 0.25 mm

| lab number | sample wt./vol. | dilution factor |
|---|---|---|
| 242358.04 | 0.1L | 10 |

Pesticides
instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m, 0.25 mm.

| compound | MDL ug/L | PQL ug/L |
|---|---|---|
| lindane | 0.002 | 0.05 |
| heptachlor | 0.004 | 0.05 |
| aldrin | 0.003 | 0.05 |
| heptachlor epoxide | 0.004 | 0.05 |
| pp DDE | 0.002 | 0.05 |
| dieldrin | 0.004 | 0.05 |
| endrin | 0.004 | 0.05 |
| pp DDD | 0.003 | 0.05 |
| pp DDT | 0.007 | 0.1 |
| endrin aldehyde | 0.002 | 0.3 |
| alpha BHC | 0.003 | 0.05 |
| beta BHC | 0.004 | 0.05 |
| delta BHC | 0.002 | 0.05 |
| endosulfan 1 | 0.005 | 0.1 |
| endosulfan 2 | 0.004 | 0.1 |
| endosulfan sulfate | 0.004 | 0.3 |

Pesticides
instrument: SVGC 2, H.P. 5890
confirmation column: Rtx-50, 30 m, 0.25 mm.

| compound | MDL ug/L | PQL ug/L |
|---|---|---|
| lindane | 0.004 | 0.05 |
| heptachlor | 0.007 | 0.05 |
| aldrin | 0.003 | 0.05 |
| heptachlor epoxide | 0.005 | 0.05 |
| pp DDE | 0.004 | 0.05 |
| dieldrin | 0.004 | 0.05 |
| endrin | 0.008 | 0.05 |
| pp DDD | 0.004 | 0.05 |
| pp DDT | 0.008 | 0.1 |
| endrin aldehyde | 0.008 | 0.3 |
| alpha BHC | 0.004 | 0.05 |
| beta BHC | 0.005 | 0.05 |
| delta BHC | 0.007 | 0.05 |
| endosulfan 1 | 0.005 | 0.1 |
| endosulfan 2 | 0.009 | 0.1 |
| endosulfan sulfate | 0.01 | 0.3 |

## METHOD BLANK SUMMARY

instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m x 0.25 mm
confirmation column: Rtx-50, 30 m x 0.25 mm

| blank sample | date received | date extracted | date of analysis | sample volume | % moisture | dilution factor |
|---|---|---|---|---|---|---|
| TCLP fluid | NA | 6/3/04 | 6/3/04 | 0.1 L | NA | 10 |

This method blank is associated with sample:
242358.04

## STANDARD SUMMARY

instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m x 0.25 mm
confirmation column: Rtx-50, 30 m x 0.25 mm

| standard | date | time |
|---|---|---|
| Endrin + ppDDT | 5/27/04 | 0845 |
| Pesticides Mix 2.0 ppb | 5/27/04 | 1000 |
| Pesticides Mix 1.6 ppb | 5/27/04 | 1106 |
| Aroclor 1254 9.0 ppb | 5/27/04 | 1344 |
| Pesticides Mix 0.05 ppb | 5/27/04 | 1552 |
| Pesticides Mix 0.4 ppb | 5/27/04 | 1658 |
| Pesticides Mix 0.8 ppb | 5/27/04 | 1805 |
| Pesticides Mix 1.2 ppb | 5/27/04 | 1911 |
| Pesticides Mix 1.6 ppb | 5/27/04 | 2017 |
| Endrin Ketone 0.5 ppb | 5/28/04 | 1249 |
| Pesticides Mix 2.0 ppb | 5/28/04 | 1512 |
| Surrogate Std. | 5/28/04 | 1619 |
| Endrin Ketone 0.1 ppb | 5/28/04 | 1725 |
| Chlordane 0.2 ppb | 5/29/04 | 1000 |
| Toxaphene 2.0 ppb | 5/29/04 | 1107 |
| Pesticides reference | 5/29/04 | 1745 |
| Aroclor 1242 1.0 ppb | 5/29/04 | 1851 |
| Pesticides Mix 0.8 ppb | 5/30/04 | 0235 |
| Aroclor 1254 reference | 5/30/04 | 0342 |
| Endrin + ppDDT | 5/30/04 | 0448 |
| Toxaphene 2.0 ppb | 6/1/04 | 2136 |
| Chlordane 0.2 ppb | 6/1/04 | 2242 |
| Pesticides Mix 0.4 ppb | 6/1/04 | 2349 |
| Pesticides reference | 6/2/04 | 1605 |
| Aroclor 1248 1.0 ppb | 6/3/04 | 1159 |
| 505/525B Mix 0.05 ppb | 6/3/04 | 1623 |
| Endrin + ppDDT | 6/3/04 | 1728 |
| Pesticides Mix 1.2 ppb | 6/4/04 | 1609 |
| Aroclor 1254 1.0 ppb | 6/4/04 | 2248 |
| Aroclor 1254 3.0 ppb | 6/4/04 | 2354 |
| Aroclor 1254 6.0 ppb | 6/5/04 | 0101 |
| Aroclor 1254 9.0 ppb | 6/5/04 | 0207 |
| Aroclor 1254 reference | 6/5/04 | 0527 |
| Pesticides reference | 6/5/04 | 0633 |
| Endrin + ppDDT | 6/7/04 | 0939 |

These standards are associated with samples:
242358.04, method blank, MS, MSD.

| pesticide TCLP target compounds |
| --- |
| lindane |
| endrin |
| heptachlor |
| heptachlor epoxide |
| methoxychlor |
| chlordane |
| toxaphene |

PESTICIDES RETENTION TIME WINDOWS

instrument: SVGC 2, H.P. 5890
primary column: XTI-5, 30 m, 0.25 mm

| compound | retention time | retention time window from | to |
|---|---|---|---|
| alpha BHC | 17.45 | 17.45 | 17.45 |
| lindane | 18.64 | 18.64 | 18.64 |
| heptachlor | 21.15 | 21.15 | 21.15 |
| aldrin | 22.39 | 22.39 | 22.39 |
| beta BHC | 18.40 | 18.40 | 18.40 |
| delta BHC | 19.46 | 19.42 | 19.49 |
| heptachlor epoxide | 23.68 | 23.68 | 23.68 |
| endosulfan 1 | 25.08 | 25.08 | 25.08 |
| pp DDE | 25.60 | 25.57 | 25.63 |
| dieldrin | 26.16 | 26.15 | 26.18 |
| endrin | 27.26 | 27.22 | 27.29 |
| pp DDD | 27.57 | 27.57 | 27.57 |
| endosulfan 2 | 27.67 | 27.67 | 27.67 |
| pp DDT | 29.64 | 29.63 | 29.66 |
| endrin aldehyde | 28.60 | 28.59 | 28.62 |
| endosulfan sulfate | 29.95 | 29.95 | 29.95 |
| methoxychlor | 33.36 | 33.35 | 33.38 |

PESTICIDES RETENTION TIME WINDOWS

instrument: SVGC 2, H.P. 5890
confirmation column: Rtx-50, 30 m, 0.25 mm

| compound | retention time | retention time window from | to |
|---|---|---|---|
| alpha BHC | 21.64 | 21.62 | 21.65 |
| lindane | 23.25 | 23.23 | 23.26 |
| heptachlor | 24.45 | 24.41 | 24.50 |
| aldrin | 26.00 | 25.99 | 26.02 |
| beta BHC | 23.91 | 23.90 | 23.93 |
| delta BHC | 25.18 | 25.14 | 25.21 |
| heptachlor epoxide | 29.06 | 29.03 | 29.10 |
| endosulfan 1 | 31.58 | 31.55 | 31.62 |
| pp DDE | 32.38 | 32.34 | 32.41 |
| dieldrin | 34.19 | 34.18 | 34.21 |
| endrin | 37.56 | 37.53 | 37.59 |
| pp DDD | 37.89 | 37.87 | 37.90 |
| endosulfan 2 | 40.24 | 40.20 | 40.27 |
| pp DDT | 41.39 | 41.34 | 41.43 |
| endrin aldehyde | 44.11 | 44.05 | 44.18 |
| endosulfan sulfate | 46.47 | 46.42 | 46.51 |
| methoxychlor | 56.14 | 56.06 | 56.22 |

Response Factor Report SVGC2

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Initial Calibration

Calibration Files
0.05 =05270406.D 0.40 =05270407.D 0.80 =05270408.D
1.2 =05270409.D 1.6 =05270410.D 2.0 =05270402.D

| | | Compound | 0.05 | 0.40 | 0.80 | 1.2 | 1.6 | 2.0 | Avg | %RS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | S1 | tetrachloro-m-xylen | | | | | | | 6.4 E3 | 0.0 |
| 2) | | alpha BHC | 162.7 | 344.0 | 399.1 | 455.2 | 445.7 | 486.0 | 382.1 E3 | 30.9 |
| 3) | | lindane | 185.0 | 334.1 | 388.3 | 420.2 | 408.4 | 442.6 | 363.1 E3 | 26.0 |
| 4) | | heptachlor | 331.1 | 315.3 | 294.5 | 346.2 | 0.0 | 348.4 | 272.6 E3 | 49.5 |
| 5) | | aldrin | 266.7 | 326.9 | 381.4 | 415.2 | 402.8 | 453.4 | 374.4 E3 | 17.9 |
| 6) | | beta BHC | 131.5 | 184.7 | 201.1 | 213.0 | 201.9 | 222.3 | 192.4 E3 | 16.8 |
| 7) | | delta BHC | 214.0 | 248.8 | 313.6 | 349.4 | 348.3 | 376.0 | 308.3 E3 | 20.6 |
| 8) | | heptachlor epoxide | 285.8 | 364.4 | 397.0 | 421.5 | 402.1 | 440.8 | 385.3 E3 | 14.2 |
| 9) | | endosulfan 1 | 318.9 | 344.4 | 378.2 | 400.2 | 374.6 | 416.0 | 372.1 E3 | 9.5 |
| 10) | | pp DDE | 250.9 | 324.7 | 377.7 | 415.9 | 0.0 | 467.5 | 306.1 E3 | 54.7 |
| 11) | | dieldrin | 250.2 | 332.7 | 377.1 | 414.2 | 0.0 | 459.5 | 305.6 E3 | 54.3 |
| 12) | | endrin | 133.9 | 132.7 | 148.8 | 154.2 | 0.0 | 181.0 | 125.1 E3 | 50.9 |
| 13) | | pp DDD | 200.0 | 224.1 | 261.2 | 297.6 | 290.6 | 0.0 | 212.3 E3 | 52.1 |
| 14) | | endosulfan 2 | 324.2 | 331.7 | 0.0 | 0.0 | 266.6 | 252.3 | 195.8 E3 | 79.0 |
| 15) | | pp DDT | 188.8 | 225.0 | 264.3 | 296.1 | 293.3 | 0.0 | 211.2 E3 | 52.7 |
| 16) | | endrin aldehyde | 306.7 | 258.9 | 266.6 | 285.9 | 282.7 | 305.1 | 284.3 E3 | 6.8 |
| 17) | S2 | dibutyl chlorendate | | | | | | | 7.1 E3 | 0.0 |
| 18) | | endosulfan sulfate | 278.0 | 237.1 | 295.3 | 324.0 | 0.0 | 348.2 | 247.1 E3 | 51.3 |
| 19) | | methoxychlor | 162.2 | 163.5 | 177.8 | 184.3 | 179.4 | 193.1 | 176.7 E3 | 6.8 |

Signal #2 Calibration Files
0.05 =CONFIRM.D 0.40 =CONFIRM.D 0.80 =CONFIRM.D
1.2 =CONFIRM.D 1.6 =CONFIRM.D 2.0 =CONFIRM.D

| | | Compound | 0.05 | 0.40 | 0.80 | 1.2 | 1.6 | 2.0 | Avg | %RS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | S1 | tetrachloro-m-xylen | | | | | | | 6.6 E3 | 0.0 |
| 2) | | alpha BHC | 233.3 | 402.6 | 457.0 | 487.0 | 475.8 | 486.1 | 423.6 E3 | 23.2 |
| 3) | | lindane | 272.1 | 370.0 | 412.7 | 436.9 | 427.3 | 432.6 | 391.9 E3 | 16.2 |
| 4) | | heptachlor | 379.6 | 423.5 | 441.1 | 448.2 | 427.9 | 420.4 | 423.5 E3 | 5.6 |
| 5) | | aldrin | 250.7 | 346.6 | 375.8 | 399.9 | 392.0 | 393.1 | 359.7 E3 | 15.7 |
| 6) | | beta BHC | 149.4 | 200.9 | 206.5 | 215.2 | 211.6 | 213.5 | 199.5 E3 | 12.5 |
| 7) | | delta BHC | 201.1 | 282.9 | 330.7 | 363.6 | 357.2 | 360.3 | 316.0 E3 | 20.2 |
| 8) | | heptachlor epoxide | 315.6 | 361.4 | 375.9 | 388.1 | 374.9 | 369.7 | 364.3 E3 | 6.9 |
| 9) | | endosulfan 1 | 337.7 | 343.6 | 355.2 | 366.7 | 350.9 | 343.5 | 349.6 E3 | 2.9 |
| 10) | | pp DDE | 311.9 | 343.7 | 385.4 | 397.1 | 384.4 | 391.0 | 368.9 E3 | 9.1 |
| 11) | | dieldrin | 304.4 | 343.6 | 361.8 | 397.4 | 390.3 | 384.2 | 363.6 E3 | 9.6 |
| 12) | | endrin | 189.4 | 239.5 | 272.1 | 282.9 | 270.7 | 283.0 | 256.3 E3 | 14.2 |
| 13) | | pp DDD | 191.6 | 244.5 | 280.6 | 302.5 | 287.9 | 303.6 | 268.5 E3 | 16.1 |
| 14) | | endosulfan 2 | 318.6 | 313.9 | 330.2 | 300.9 | 0.0 | 0.0 | 210.6 E3 | 77.5 |
| 15) | | pp DDT | 183.7 | 232.5 | 274.6 | 301.3 | 300.1 | 299.3 | 265.2 E3 | 18.0 |
| 16) | | endrin aldehyde | 246.6 | 252.8 | 261.5 | 275.9 | 273.1 | 272.9 | 263.8 E3 | 4.6 |
| 17) | S2 | dibutyl chlorendate | | | | | | | 5.5 E3 | 0.0 |



(#) = Out of Range ### Number of calibration levels exceeded format ###
RMP0527.M Thu Jun 10 10:29:22 2004

Response Factor Report SVGC2

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Initial Calibration

Calibration Files
0.05 =CONFIRM.D 0.40 =CONFIRM.D 0.80 =CONFIRM.D
1.2 =CONFIRM.D 1.6 =CONFIRM.D 2.0 =CONFIRM.D

| | Compound | 0.05 | 0.40 | 0.80 | 1.2 | 1.6 | 2.0 | Avg | | %RS |
|---|---|---|---|---|---|---|---|---|---|---|
| 18) | endosulfan sulfate | 248.3 | 255.0 | 276.7 | 291.7 | 284.7 | 280.2 | 272.8 | E3 | 6.3 |
| 19) | methoxychlor | 166.8 | 186.3 | 193.5 | 203.6 | 200.5 | 0.0 | 158.4 | E3 | 49.6 |



(#) = Out of Range ### Number of calibration levels exceeded format ###
RMP0527.M Thu Jun 10 10:29:24 2004

## SURROGATE RECOVERY SUMMARY

method: 8081
surrogate: dibutyl chlorendate 2 ppb

| sample | matrix | % recovery |
|---|---|---|
| method blank | TCLP | 99 |
| MS | TCLP | 86 |
| MSD | TCLP | 93 |
| 242358.04 | TCLP | 98 |

% recovery limits

| | TCLP |
|---|---|
| UCL | 148 |
| UWL | 126 |
| LWL | 38 |
| LCL | 16 |

## MS/MSD SUMMARY

method: 8081

| compound | unspiked conc. (ug/L) | spike conc. (ug/L) | extract MS conc. (ug/L) | MS % rec. | extract MSD conc. (ug/L) | MSD % rec. | % rec. limits | MS,MSD difference | difference limit |
|---|---|---|---|---|---|---|---|---|---|
| lindane | 0 | 10 | 7.1 | 71% | 7.8 | 78% | 37-119 | 0.7 | 2.9 |
| heptachlor | 0 | 10 | 5.5 | 55% | 6.2 | 62% | 8-123 | 0.7 | 3.1 |
| heptachlor epoxide | 0 | 10 | 7.3 | 73% | 8.0 | 80% | 37-122 | 0.7 | 3.2 |
| endrin | 0 | 10 | 6.8 | 68% | 7.7 | 77% | 36-133 | 0.9 | 3.0 |
| methoxychlor | 0 | 10 | 6.3 | 63% | 7.1 | 71% | 61-130 | 0.8 | 2.3 |

**Chromatograms for samples:**

Method Blank
242358.04

Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\052704\05270473.D Vial: 73
Signal #2 : C:\HPCHEM\5\DATA\052704\05270473.D\CONFIRM.D
Acq On : 03 Jun 04 06:38 PM Operator: GW
Sample : met blank x10 Inst : SVGC2
Misc : 06/03/04 Multiplr: 1.00
Quant Time: Jun 4 9:13 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | Conc#1 | Conc#2 |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | S1 tetrachloro-m-xylene | 18.92 | 15.95 | 476342 | 527673 | 74.96 | 80.55 |
| 17) | S2 dibutyl chlorendate | 47.91 | 35.99 | 631466 | 546414 | 89.22 | 98.56 |
| | Target Compounds | | | | | | |
| 2) | alpha BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 3) | lindane | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 4) | heptachlor | 0.00 | 21.05f | 0 | 171 | N.D. | N.D. |
| 5) | aldrin | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 6) | beta BHC | 23.89 | 0.00 | 1450 | 0 | 0.06 | N.D. # |
| 7) | delta BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 8) | heptachlor epoxide | 0.00 | 23.69 | 0 | 168 | N.D. | 0.00 # |
| 9) | endosulfan 1 | 31.60 | 0.00 | 3233 | 0 | 0.06 | N.D.d# |
| 10) | pp DDE | 0.00 | 25.56 | 0 | 131 | N.D. | 0.02 # |
| 11) | dieldrin | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 12) | endrin | 37.47f | 0.00 | 389 | 0 | 0.10 | N.D. # |
| 13) | pp DDD | 37.93f | 0.00 | 111 | 0 | 0.06 | N.D. # |
| 14) | endosulfan 2 | 40.31f | 0.00 | 385 | 0 | N.D. | N.D. |
| 15) | pp DDT | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 16) | endrin aldehyde | 44.03f | 0.00 | 24981 | 0 | 0.13 | N.D. # |
| 18) | endosulfan sulfate | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 19) | methoxychlor | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |



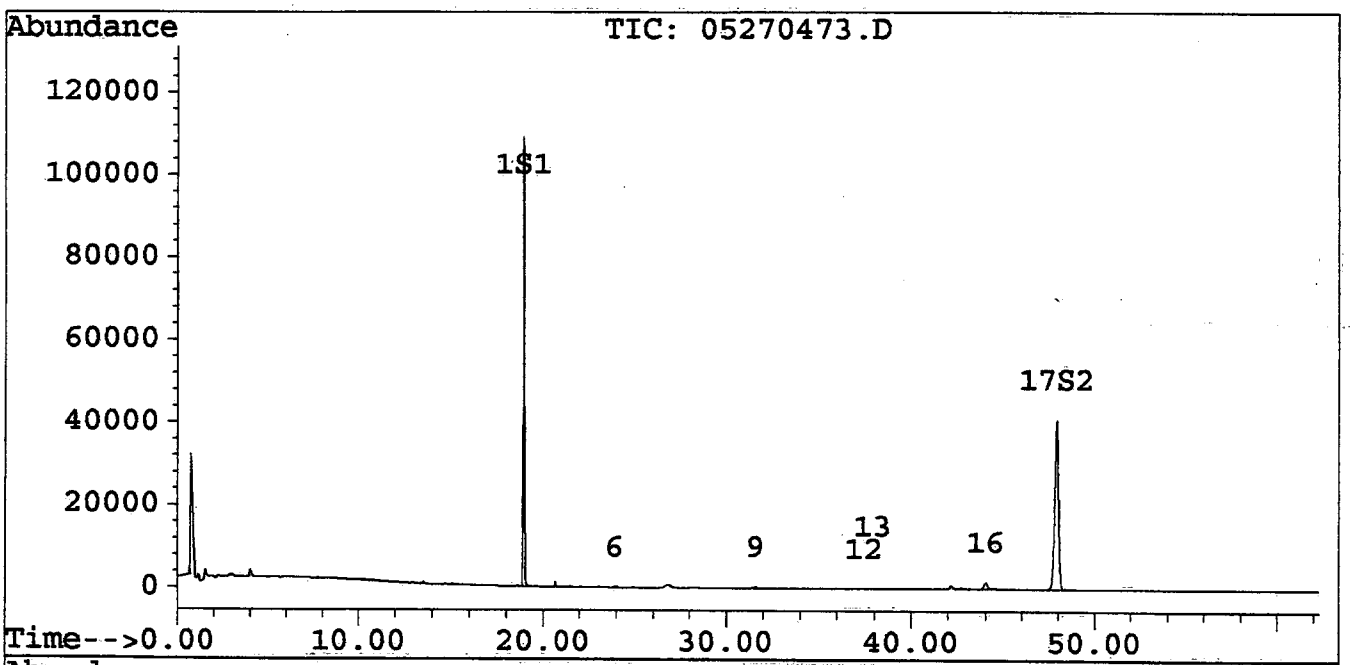
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
05270473.D RMP0527.M Tue Jun 08 12:42:19 2004 Page 1

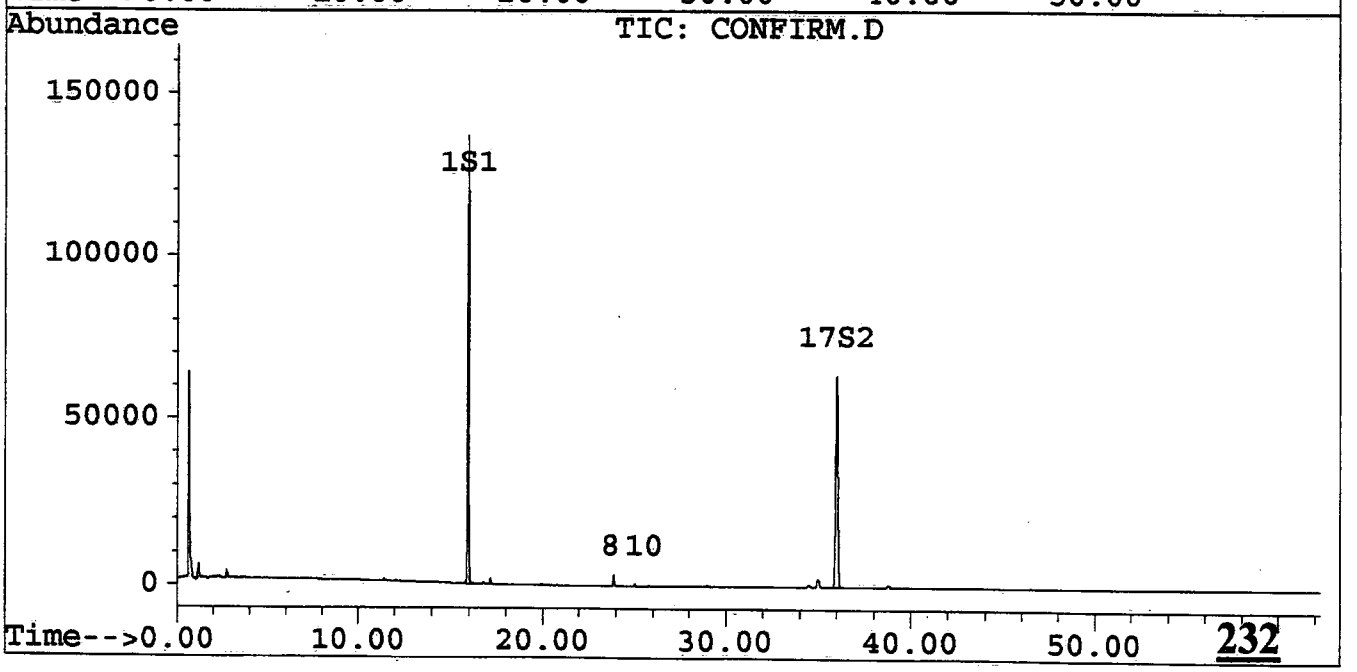
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\052704\05270473.D Vial: 73
Signal #2 : C:\HPCHEM\5\DATA\052704\05270473.D\CONFIRM.D
Acq On : 03 Jun 04 06:38 PM Operator: GW
Sample : met blank x10 Inst : SVGC2
Misc : 06/03/04 Multiplr: 1.00
Quant Time: Jun 4 9:13 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

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Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\052704\05270472.D Vial: 72
Signal #2 : C:\HPCHEM\5\DATA\052704\05270472.D\CONFIRM.D
Acq On : 03 Jun 04 05:32 PM Operator: GW
Sample : 2358.04 NC x10 Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 4 9:09 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | Conc#1 | Conc#2 |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | S1 tetrachloro-m-xylene | 18.92 | 15.93 | 526598 | 555909 | 82.87 | 84.86 |
| 17) | S2 dibutyl chlorendate | 47.89f | 35.97 | 626313 | 545738 | 88.49 | 98.44 |
| | Target Compounds | | | | | | |
| 2) | alpha BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 3) | lindane | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 4) | heptachlor | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 5) | aldrin | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 6) | beta BHC | 23.89 | 0.00 | 887 | 0 | 0.06 | N.D. # |
| 7) | delta BHC | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 8) | heptachlor epoxide | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 9) | endosulfan 1 | 31.60 | 25.03f | 3019 | 2894 | 0.05 | N.D.m# |
| 10) | pp DDE | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 11) | dieldrin | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 12) | endrin | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 13) | pp DDD | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 14) | endosulfan 2 | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 15) | pp DDT | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |
| 16) | endrin aldehyde | 44.03f | 0.00 | 22285 | 0 | 0.12 | N.D. # |
| 18) | endosulfan sulfate | 0.00 | 29.87f | 0 | 4329 | N.D. | 0.03 # |
| 19) | methoxychlor | 0.00 | 0.00 | 0 | 0 | N.D. | N.D. |



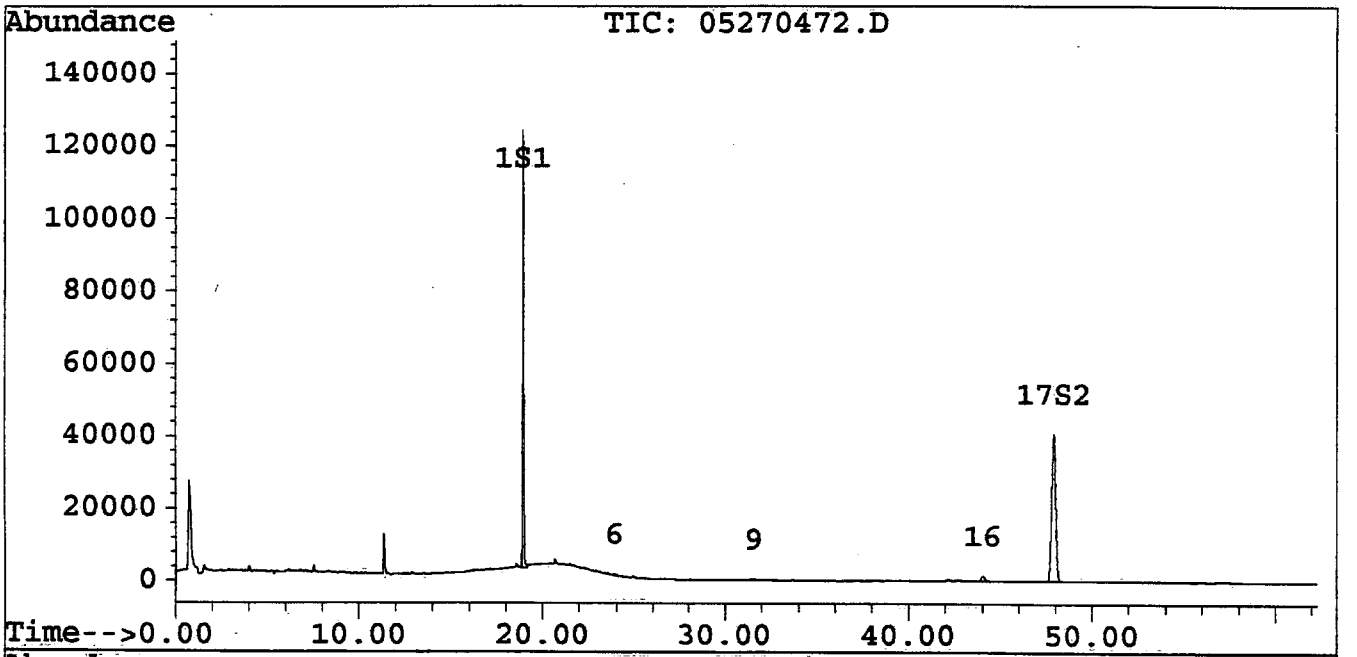
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
05270472.D RMP0527.M Tue Jun 08 12:41:28 2004 Page 1

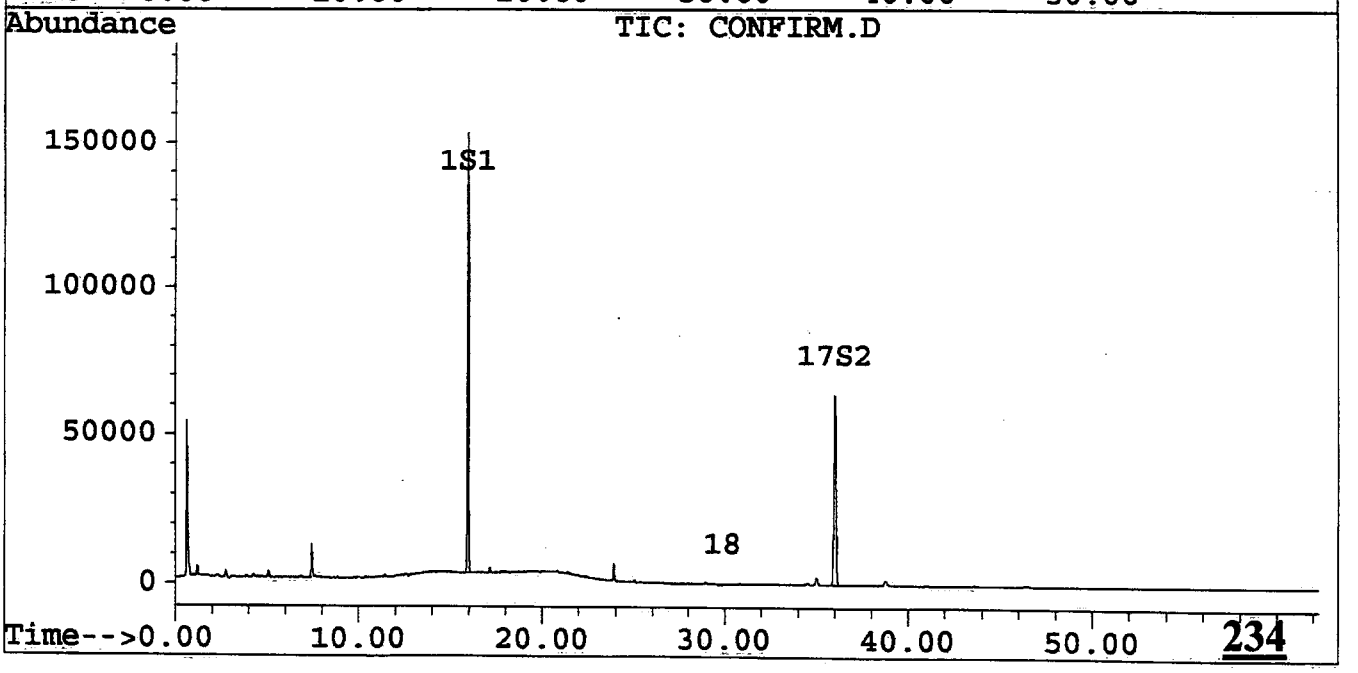
Quantitation Report

Signal #1 : C:\HPCHEM\5\DATA\052704\05270472.D Vial: 72
Signal #2 : C:\HPCHEM\5\DATA\052704\05270472.D\CONFIRM.D
Acq On : 03 Jun 04 05:32 PM Operator: GW
Sample : 2358.04 NC x10 Inst : SVGC2
Misc : Multiplr: 1.00
Quant Time: Jun 4 9:09 19104

Method : C:\HPCHEM\5\METHODS\RMP0527.M
Title : Restek 608 pesticides
Last Update : Tue Jun 01 08:37:18 2004
Response via : Single Level Calibration

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

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PCB'S BY EPA METHODS 8082 - QC DELIVERABLES
FOR ECOTEST SAMPLE Nos. 242358.04

**Conformance/Nonconformance Summary for PCBs by EPA Method 8082**

Sample Lab No. 242358.04

QC criteria were met for the following unless stated otherwise:

* Method blank
* Surrogate % recoveries
* Matrix Spike & Matrix Spike Duplicate RPD
* Matrix Spike & Matrix Spike Duplicate % recoveries
* Holding Time (USEPA SW846)
* Initial instrument calibration & continuing calibration
* Although the quantification report for the sample says "single level calibration" The actual calibration is from a multi-level curve.

# LAB CHRONICLE

| Lab Number | Sample | Date collected | Date received | Date of Extraction | Holding Time Before Extraction (Days) | Date of Analysis | Holding Time After Extraction (Days) |
|---|---|---|---|---|---|---|---|
| 242358.04 | BBD-WC-Blg-8 Septic | 06/01/04 | 06/02/04 | 06/03/04 | 6 | 06/04/04 | 1 |

The sample was received in good condition at a temperature of 3 degrees C.

# ANALYTICAL RESULTS SUMMARY
## PCB - (8082)

Instrument : Tracor 540 Gas Chromatograph
Column: RTX35,30m x 0.32mm

| Lab Number | Sample wt/vol | Dil.Fact. |
|---|---|---|
| 242358.04 | 5g | 40 |

| Compound | MDL ug/L | PQL ug/L |
|---|---|---|
| 1016 | 0.088 | 1.0 |
| 1260 | 0.097 | 1.0 |

# METHOD BLANK RESULTS SUMMARY
## PCB - (8082)

Instrument : Tracor 540 Gas Chromatograph
Column: RTX35,30m x 0.32mm

| Method blank | Date Rec'd | Date Extracted | Date of Analysis | Sample wt/vol | %Moist. | Dil.Fact. |
|---|---|---|---|---|---|---|
| Sand | | 06/03/04 | 06/04/04 | 25g | <1 | 40 |

This Method Blank is associated with sample 242358.04.

## STANDARD SUMMARY

## PCB (8082)

INSTRUMENT:TRACOR 540 GAS CHROMATOGRAPH
Column:RTX35,30mx0.32

| STANDARD | DATE | TIME |
|---|---|---|
| 1248 1.0 ug/L | 06/02/04 | 1621 |
| 1016/1260 1.0 ug/L | 06/03/04 | 1112 |
| 1254 3.0 ug/L | 06/03/04 | 1308 |
| 1221 3.0 ug/L | 06/03/04 | 1700 |
| 1232 6.0 ug/L | 06/03/04 | 1856 |
| PCB Surrogate Standard | 06/03/04 | 2150 |
| 1016/1260 3.0 ug/L | 06/04/04 | 1540 |
| 1016 Reference | 06/04/04 | 2030 |
| 1016/1260 6.0 ug/L | 06/04/04 | 2128 |
| 1254 1.0 ug/L | 06/07/04 | 1031 |

These standards are associated with sample 242358.04,method blank,MS,MSD.

Response Factor Report TRACOR EC

Method : C:\HPCHEM\6\METHODS\PCB0525.M
Title :
Last Update : Tue Jun 01 13:07:17 2004
Response via : Initial Calibration

Calibration Files
0.5 =06090303.D 1.0 =05250420.D 3.0 =05250444.D
6.0 =05250445.D 9.0 =05250446.D 100 =05250421.D

| | Compound | 0.5 | 1.0 | 3.0 | 6.0 | 9.0 | 100 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1) L1 | 1016(1) | 0.0 | 94.9 | 100.4 | 101.9 | 92.3 | | 97.9 E6 | 56.13 |
| 2) L1 | 1016(2) | 0.0 | 215.3 | 224.2 | 230.6 | 203.8 | | 174.8 E6 | 56.20 |
| 3) L1 | 1016(3) | 0.0 | 69.1 | 72.3 | 74.2 | 66.4 | | 56.4 E6 | 56.16 |
| 4) L1 | 1016(4) | 0.0 | 64.5 | 70.3 | 71.9 | 63.9 | | 54.1 E6 | 56.28 |
| 5) L1 | 1016(5) | 0.0 | 59.8 | 66.1 | 0.0 | 60.4 | | 37.3 E6 | 91.52 |
| 6) L1 | 1016(6) | 0.0 | 75.5 | 79.3 | 83.8 | 74.9 | | 62.7 E6 | 56.19 |
| 7) S | decachlorobiphenyl | | | | | | 7.6 | 7.6 E6 | 0.00 |
| 8) L2 | 1260(1) | 0.0 | 82.7 | 87.0 | 0.0 | 81.1 | | 50.2 E6 | 91.39 |
| 9) L2 | 1260(2) | 0.0 | 144.1 | 147.8 | 0.0 | 133.6 | | 85.1 E6 | 91.49 |
| 10) L2 | 1260(3) | 0.0 | 185.3 | 223.5 | 215.8 | 207.8 | | 166.5 E6 | 56.55 |
| 11) L2 | 1260(4) | 0.0 | 134.8 | 146.5 | 0.0 | 137.9 | | 83.9 E6 | 91.43 |
| 12) L2 | 1260(5) | 0.0 | 124.2 | 136.2 | 0.0 | 127.9 | | 77.7 E6 | 91.46 |
| 13) L2 | 1260(6) | 0.0 | 250.1 | 261.4 | 0.0 | 289.5 | | 160.2 E6 | 91.72 |

(#) = Out of Range

PCB0525.M Fri Jun 11 17:23:08 2004 ALEXANDRA

0.5 standard Not run MP 6-17-04

Software error; see table MP 6-17-04

COD06174.XLS

1242

| | | Compound | 1.00 | 3.00 | 6.00 | 9.00 | AVG | Range/2 | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1 | L1 | 1016 (1) | 94.90 | 100.40 | 101.90 | 92.30 | 97.38 | 3.50 | 3.59 |
| 2 | L1 | 1016 (2) | 215.30 | 224.20 | 230.60 | 203.80 | 218.48 | 13.40 | 6.13 |
| 3 | L1 | 1016 (3) | 69.10 | 72.30 | 74.20 | 66.40 | 70.50 | 3.90 | 5.53 |
| 4 | L1 | 1016 (4) | 64.50 | 70.30 | 71.90 | 63.90 | 67.65 | 4.00 | 5.91 |
| 5 | L1 | 1016 (5) | 59.80 | 66.10 | NA | 60.40 | 62.10 | 3.15 | 5.07 |
| 6 | L1 | 1016 (6) | 75.50 | 79.30 | 83.80 | 74.90 | 78.38 | 4.45 | 5.68 |
| 7 | | | | | | | | | |
| 8 | L2 | 1260 (1) | 82.70 | 87.00 | NA | 81.10 | 83.60 | 1.70 | 2.03 |
| 9 | L2 | 1260 (2) | 144.10 | 147.80 | NA | 133.60 | 141.83 | 7.10 | 5.01 |
| 10 | L2 | 1260 (3) | 185.30 | 223.50 | 215.80 | 207.80 | 208.10 | 19.10 | 9.18 |
| 11 | L2 | 1260 (4) | 134.80 | 146.50 | NA | 137.90 | 139.73 | 5.85 | 4.19 |
| 12 | L2 | 1260 (5) | 124.20 | 136.20 | NA | 127.90 | 129.43 | 6.00 | 4.64 |
| 13 | L2 | 1260 (6) | 250.10 | 261.40 | NA | 289.50 | 267.00 | 19.70 | 7.38 |

Response Factor Report TRACOR EC

Method : C:\HPCHEM\6\METHODS\12540517.M
Title : 1254
Last Update : Mon May 24 16:32:08 2004
Response via : Initial Calibration

Calibration Files
1 =05170440.D 2 =05170439.D 3 =05170442.D
4 =05170441.D 5 =04030222.D 6 =05170451.D

| | | Compound | 1 | 2 | 3 | 4 | 5 | 6 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | S | DECACHLOROBIPHENYL | | | | | | 8.3 | 8.3 E6 | 0.00 |
| 2) | L | 1254 | 87.2 | 96.7 | 88.1 | 89.2 | | | 90.3 E6 | 4.80 |
| 3) | L | 1254 {2} | 55.8 | 64.3 | 59.8 | 65.2 | | | 61.3 E6 | 7.09 |
| 4) | L | 1254 {3} | 128.6 | 152.4 | 140.5 | 142.2 | | | 140.9 E6 | 6.91 |
| 5) | L | 1254 (4) | 151.7 | 193.2 | 166.2 | 169.5 | | | 170.1 E6 | 10.11 |
| 6) | L | 1254 (5) | 70.6 | 90.9 | 76.1 | 79.4 | | | 79.2 E6 | 10.83 |

(#) = Out of Range

12540517.M Fri Jun 11 17:22:11 2004 ALEXANDRA

PCB RETENTION TIME WINDOWS

instrument: Tracor 540 Gas Chromatograph
primary column: RTX35, 30m x 0.32mm

| compound | retention time | retention time window from | to |
|---|---|---|---|
| 1016(1) | 10.64 | 10.57 | 10.70 |
| 1016(2) | 11.82 | 11.75 | 11.88 |
| 1016(3) | 12.24 | 12.16 | 12.32 |
| 1016(4) | 12.75 | 12.50 | 13.00 |
| 1016(5) | 13.10 | 11.84 | 14.35 |
| | | | |
| 1260(1) | 17.18 | 17.09 | 17.28 |
| 1260(2) | 18.25 | 16.54 | 19.96 |
| 1260(3) | 18.50 | 18.37 | 18.63 |
| 1260(4) | 21.05 | 20.88 | 21.21 |
| 1260(5) | 23.31 | 23.11 | 23.51 |

PCB target compounds

aroclor 1016
aroclor 1221
aroclor 1232
aroclor 1242
aroclor 1248
aroclor 1254
aroclor 1260

**SURROGATE COMPOUND RECOVERY RESULT SUMMARY**
**PCB (8082)**

SURROGATE COMPOUND: DECACHLOROBIPHENYL
SURROGATE SPIKED @ 2.5ug/L
MATRIX: soil

QC LIMITS :
UCL =155%
UWL= 132%
LWL= 39%
LCL =16%

| SAMPLE | SURR % REC |
|---|---|
| method blank | 87 |
| matrix spike | 87 |
| matrix dp spike | 91 |
| 242358.04 | * diluted out |

* Sample was extracted at a dilution of x40. The Sample was analyzed at a dilution of x2000. At this dilution the surrogate was too dilute to quantify.

**MS/MSD RESULT SUMMARY**
**PCB**

MS: SAND
MSD: SAND

| Compound | Unspiked Conc. (ug/Kg) | Spike Added (ug/Kg) | MS Conc. (ug/Kg) | MS Recovery (%) | MSD Conc. (ug/Kg) | MSD Recovery (%) | Recovery Limits (%) | MS, MSD Difference (ug/Kg) | Difference Limits (ug/Kg) |
|---|---|---|---|---|---|---|---|---|---|
| 1016 | 0 | 160 | 144 | 090 | 149 | 93 | 42-116 | 5 | 63 |

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060204\06020421.D
Acq On : 04 Jun 04 04:38 PM
Sample : met blank x40
Misc :
Quant Time: Jun 7 11:24 19104

Vial: 21
Operator: H. B.
Inst : TRACOR EC
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\PCB0525.M
Title :
Last Update : Tue Jun 01 13:07:17 2004
Response via : Multiple Level Calibration

Volume Inj. :
Signal Phase :
Signal Info :

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 7) S decachlorobiphenyl | 45.28f | 655687434 | 86.82 | | |
| Target Compounds | | | | | |
| 1) L1 1016(1) | 0.00 | 0 | N.D. | | d |
| 2) L1 1016(2) | 0.00 | 0 | N.D. | | d |
| 3) L1 1016(3) | 0.00 | 0 | N.D. | | d |
| 4) L1 1016(4) | 0.00 | 0 | N.D. | | d |
| 5) L1 1016(5) | 0.00 | 0 | N.D. | | d |
| 6) L1 1016(6) | 0.00 | 0 | N.D. | | d |
| Total 1016(1) | | 0 | N.D. | | |
| 8) L2 1260(1) | 0.00 | 0 | N.D. | | |
| 9) L2 1260(2) | 0.00 | 0 | N.D. | | |
| 10) L2 1260(3) | 0.00 | 0 | N.D. | | d |
| 11) L2 1260(4) | 0.00 | 0 | N.D. | | d |
| 12) L2 1260(5) | 0.00 | 0 | N.D. | | d |
| 13) L2 1260(6) | 0.00 | 0 | N.D. | | d |
| Total 1260(1) | | 0 | N.D. | | |

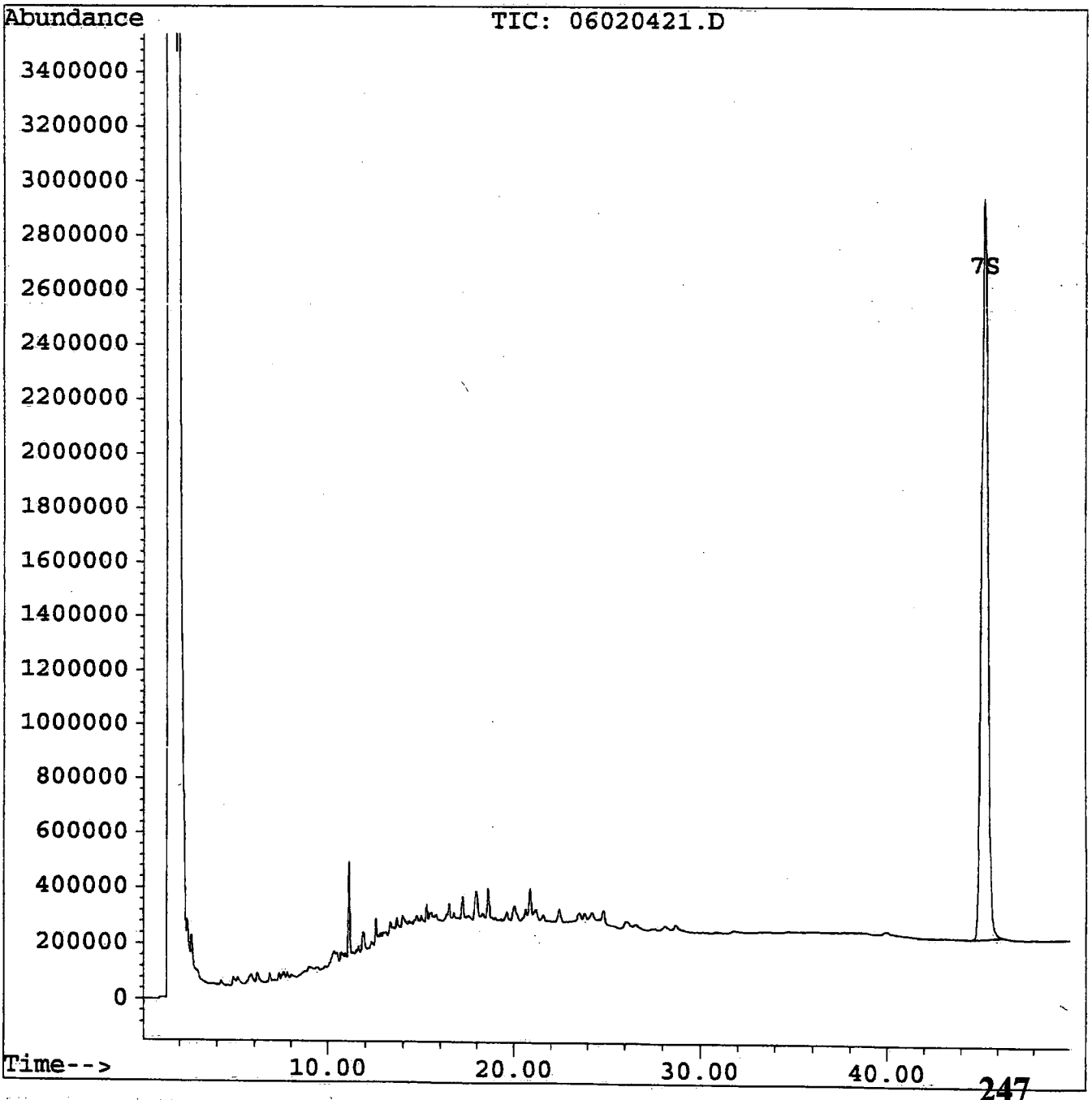
Quantitation Report

Data File : C:\HPCHEM\2\DATA\060204\06020421.D
Acq On : 04 Jun 04 04:38 PM
Sample : met blank x40
Misc :
Quant Time: Jun 7 11:24 19104

Vial: 21
Operator: H. B.
Inst : TRACOR EC
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\PCB0525.M
Title :
Last Update : Tue Jun 01 13:07:17 2004
Response via : Multiple Level Calibration

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report

Data File : C:\HPCHEM\2\DATA\060204\06020422.D
Acq On : 04 Jun 04 05:36 PM
Sample : 2358.04 x2k 6%
Misc :
Quant Time: Jun 7 11:01 19104

Vial: 22
Operator: H. B.
Inst : TRACOR EC
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\12540517.M
Title : 1254
Last Update : Mon May 24 16:32:08 2004
Response via : ~~Single~~ Multiple Level Calibration

Volume Inj. :
Signal Phase :
Signal Info :

op 6/17/04

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 1) S DECACHLOROBIPHENYL | 45.07f | 28131966 | 3.37 PPB m |
| Target Compounds | | | |
| 2) L 1254 | 14.90 | 97524680 | 1.09 PPB |
| 3) L 1254 {2} | 16.71 | 78751499 | 1.24 PPB |
| 4) L 1254 {3} | 17.17 | 187225897 | 1.32 PPB |
| 5) L 1254 (4) | 17.89 | 219360795 | 1.29 PPB |
| 6) L 1254 (5) | 18.54 | 81424356 | 1.02 PPB |
| Total 1254 | | 664287227 | 5.96 PPB |

(f)=RT Delta > 1/2 Window
(m)=manual

Quantitation Report

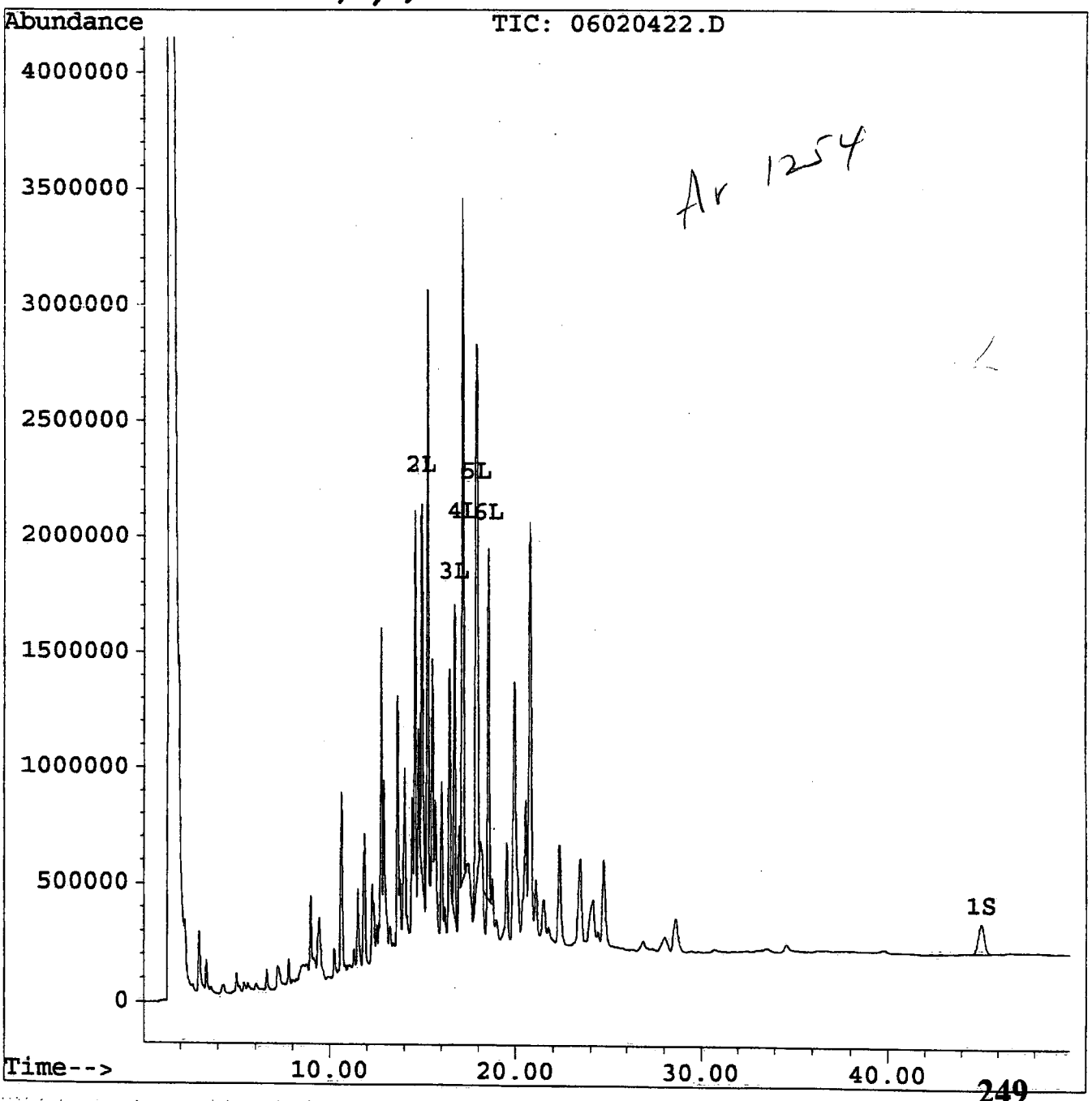
Data File : C:\HPCHEM\2\DATA\060204\06020422.D
Acq On : 04 Jun 04 05:36 PM
Sample : 2358.04 x2k 6%
Misc :
Quant Time: Jun 7 11:01 19104

Vial: 22
Operator: H. B.
Inst : TRACOR EC
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\12540517.M
Title : 1254
Last Update : Mon May 24 16:32:08 2004
Response via : ~~Single~~ Multiple Level Calibration

Volume Inj. :
Signal Phase :
Signal Info :

AM 6/11/04

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# Quantitation Report

Data File : C:\HPCHEM\2\DATA\060204\06020409.D
Acq On : 03 Jun 04 01:08 PM
Sample : 1254 3.0
Misc :
Quant Time: Jun 9 10:10 19104

Vial: 9
Operator: H. B.
Inst : TRACOR EC
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\12540517.M
Title : 1254
Last Update : Mon May 24 16:32:08 2004
Response via : ~~Single~~ Multipk Level Calibration
Volume Inj. :
Signal Phase :
Signal Info :

NP 6/11/04

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 1) S DECACHLOROBIPHENYL | 0.00 | 0 | N.D. PPB |
| Target Compounds | | | |
| 2) L 1254 | 14.93 | 56949327 | 0.63 PPB |
| 3) L 1254 {2} | 16.76 | 43620045 | 0.70 PPB m |
| 4) L 1254 {3} | 17.22 | 92329753 | 0.65 PPB |
| 5) L 1254 (4) | 17.95 | 115215080 | 0.67 PPB |
| 6) L 1254 (5) | 18.61 | 49438146 | 0.61 PPB |
| Total 1254 | | 357552351 | 3.26 PPB |



(f)=RT Delta > 1/2 Window (m)=manual int.
06020409.D 12540517.M Tue Jun 15 13:32:35 2004 ALEXANDRA Page 1

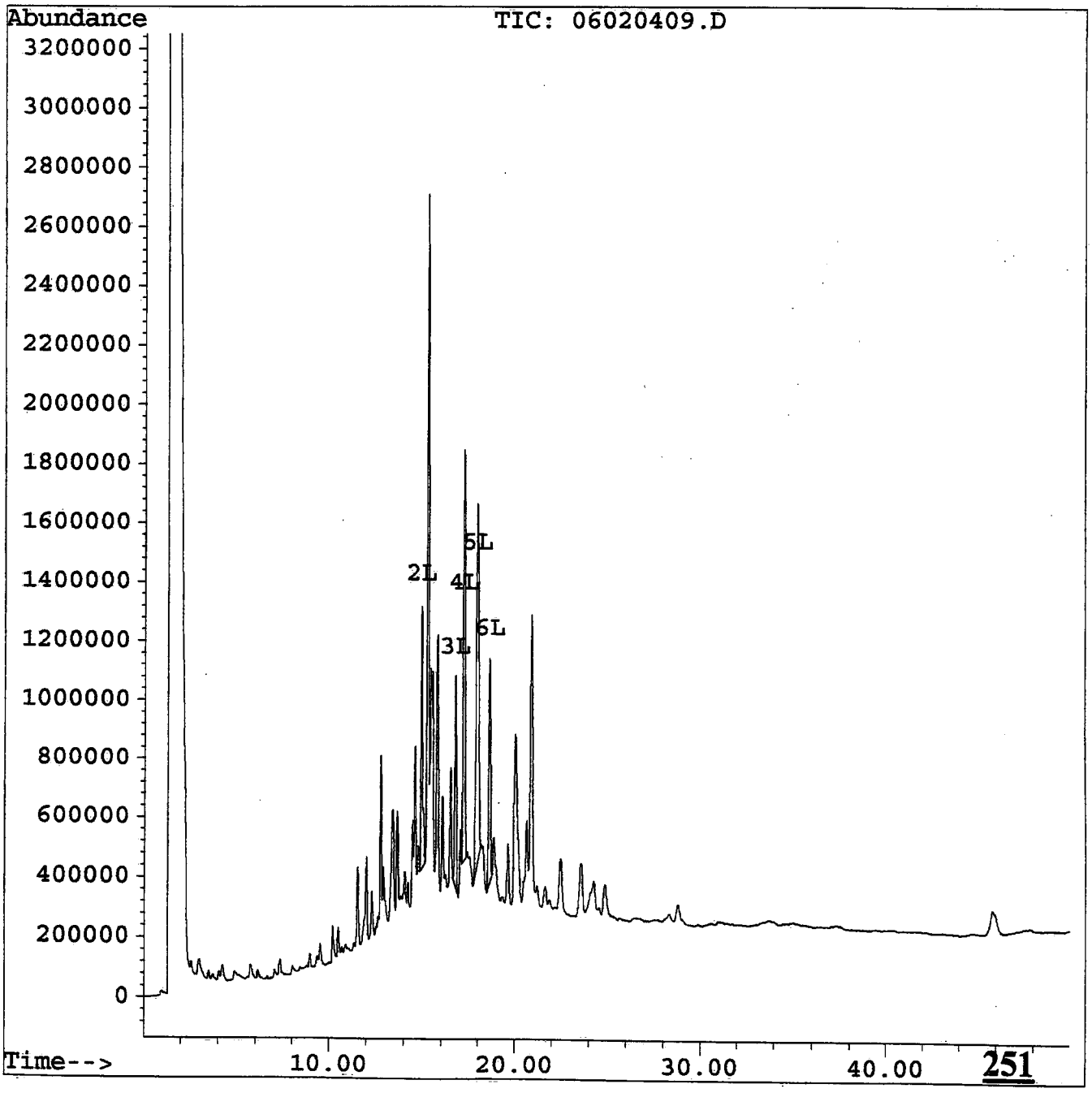
Quantitation Report

Data File : C:\HPCHEM\2\DATA\060204\06020409.D
Acq On : 03 Jun 04 01:08 PM
Sample : 1254 3.0
Misc :
Quant Time: Jun 9 10:10 19104

Vial: 9
Operator: H. B.
Inst : TRACOR EC
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\12540517.M
Title : 1254
Last Update : Mon May 24 16:32:08 2004
Response via : ~~Single~~ Multiple Level Calibration
Volume Inj. :
Signal Phase :
Signal Info :

MP 6/17/04

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Quantitation Report

Data File : C:\HPCHEM\2\DATA\060204\06020425.D
Acq On : 04 Jun 04 08:30 PM
Sample : 1016 reference
Misc :
Quant Time: Jun 7 10:45 19104

Vial: 25
Operator: H. B.
Inst : TRACOR EC
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\PCB0525.M
Title :
Last Update : Tue Jun 01 13:07:17 2004
Response via : Multiple Level Calibration

Volume Inj. :
Signal Phase :
Signal Info :

| Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|
| System Monitoring Compounds | | | | |
| 7) S decachlorobiphenyl | 45.29f | 15649705 | 2.07 | m |
| Target Compounds | | | | |
| 1) L1 1016(1) | 10.63 | 81787658 | 0.85 | |
| 2) L1 1016(2) | 11.81 | 181842665 | 0.84 | m |
| 3) L1 1016(3) | 12.24 | 58339255 | 0.84 | |
| 4) L1 1016(4) | 12.69 | 53411470 | 0.79 | m |
| 5) L1 1016(5) | 12.84 | 52146910 | 0.85 | m |
| 6) L1 1016(6) | 13.58 | 68041255 | 0.87 | m |
| Total 1016(1) | | 495569213 | 5.04 | |
| 8) L2 1260(1) | 0.00 | 0 | N.D. | |
| 9) L2 1260(2) | 0.00 | 0 | N.D. | |
| 10) L2 1260(3) | 0.00 | 0 | N.D. | d |
| 11) L2 1260(4) | 0.00 | 0 | N.D. | d |
| 12) L2 1260(5) | 0.00 | 0 | N.D. | d |
| 13) L2 1260(6) | 0.00 | 0 | N.D. | d |
| Total 1260(1) | | 0 | N.D. | |

(f)=RT Delta > 1/2 Window
(m)=manual

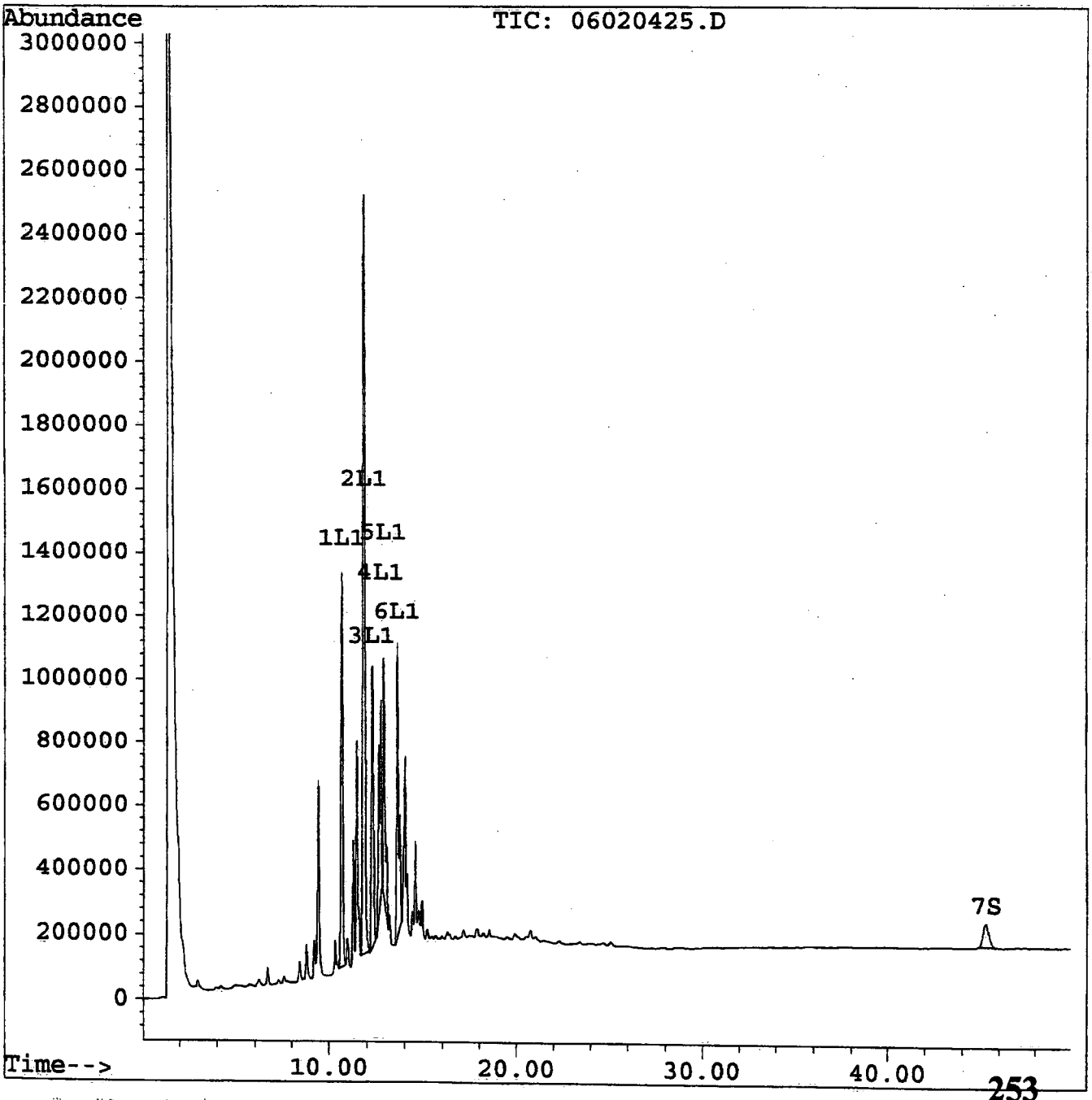
Quantitation Report

Data File : C:\HPCHEM\2\DATA\060204\06020425.D
Acq On : 04 Jun 04 08:30 PM
Sample : 1016 reference
Misc :
Quant Time: Jun 7 10:45 19104

Vial: 25
Operator: H. B.
Inst : TRACOR EC
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\PCB0525.M
Title :
Last Update : Tue Jun 01 13:07:17 2004
Response via : Multiple Level Calibration

Volume Inj. :
Signal Phase :
Signal Info :



TRANSMISSION VERIFICATION REPORT

TIME : 06/17/2004 12:46

| | |
|---|---|
| DATE,TIME | 06/17 12:36 |
| FAX NO./NAME | 18659668885 |
| DURATION | 00:09:50 |
| PAGE(S) | 21 |
| RESULT | OK |
| MODE | STANDARD<br>ECM |

HERBICIDES BY EPA METHOD 8151 - QC DELIVERABLES
INCLUDING: CONFORMANCE/NONCONFORMANCE SUMMARIES, LABORATORY CHRONICAL, ANALYTICAL SUMMARY , MDLs & PQLs, METHOD BLANK SUMMARY, RETENTION TIME WINDOWS, RESPONSE FACTOR REPORT, STANDARD SUMMARY, SURROGATE COMPOUND RESULTS SUMMARY, MS/MSD RECOVERY RESULTS SUMMARY, QUANTIFICATION REPORTS AND CHROMATOGRAMS

FOR ECOTEST SAMPLE Nos. 242358.04 TCLP

## Conformance/Nonconformance Summary for TCLP Herbicides

samples: 242358.04

QC criteria were met for the following unless stated otherwise:

Method blank

Surrogate recoveries

Matrix spike and matrix spike duplicate RPD

Matrix spike and matrix spike duplicate % recoveries

Holding time

Initial instrument calibration and continuing calibration

## TCLP HERBICIDES LAB CHRONICLE

| lab number | sample | date collected | date received | date of extraction | holding time (days) before extraction | date of analysis | holding time (days) after extraction |
|---|---|---|---|---|---|---|---|
| 242358.04 | BBD-WC-Bldg.8 Septic | 06/01/04 | 06/02/04 | 06/03/04 | 2 | 06/08/04 | 5 |

Thel sample was received in good condition.

TCLP HERBICIDES ANALYTICAL RESULTS SUMMARY

instrument: SVGC 7, H.P. 6890
primary column: DB-608, 30 m, 0.53 mm, 0.5 um

| lab number | date received | date extracted | date analyzed | sample wt./vol. | dilution factor |
|---|---|---|---|---|---|
| 242358.04 | 06/02/04 | 06/03/04 | 06/08/04 | 100 ml | 10 |

| compound | MDL ug/L | PQL ug/L |
|---|---|---|
| 2,4 D | 0.011 | 0.1 |
| 2,4,5 TP | 0.008 | 0.05 |

## TCLP HERBICIDES METHOD BLANK SUMMARY

instrument: SVGC 7, H.P. 6890
primary column: DB-608, 30 m, 0.53 mm, 0.5 um

| blank sample | date received | date extracted | date analyzed | sample volume | % moisture | dilution factor |
|---|---|---|---|---|---|---|
| TCLP fluid | NA | 06/03/04 | 06/08/04 | 100 ml | NA | 10 |

This method blank is associated with samples:
242358.04, MS, MSD.

## HERBICIDES STANDARD SUMMARY

instrument: SVGC 7, H.P. 6890
primary column: DB-608, 30 m, 0.53 mm, 0.5 um

method: 8151

| standard | date | time |
|---|---|---|
| 515.1 std.6 | 06/07/04 | 1027 |
| 515.1 std.5 | 06/07/04 | 1121 |
| 515.1 std.4 | 06/07/04 | 1214 |
| 515.1 std.3 | 06/07/04 | 1307 |
| 515.1 std.2 | 06/07/04 | 1400 |
| 515.1 std.1 | 06/07/04 | 1453 |
| Restek reference | 06/07/04 | 2014 |
| 515.1 std.7 | 06/07/04 | 2347 |
| surrogate standard | 06/08/04 | 0041 |
| 515.1 std.6 | 06/08/04 | 0748 |

These standards are associated with samples:
242358.04, method blank, MS, MSD.

## HERBICIDES RETENTION TIME WINDOWS

instrument: SVGC 7, H.P. 6890
primary column: DB-608, 30 m, 0.53 mm, 0.5 um

| compound | retention time | retention time window from | to |
|---|---|---|---|
| 2,4 D | 22.79 | 22.79 | 22.79 |
| 2,4,5 TP | 24.16 | 24.16 | 24.16 |

## Herbicides TCLP target compounds

2,4 D
2,4,5 TP

Response Factor Report gc7

Method : C:\MSDCHEM\1\METHODS\515F060704.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 08 09:43:22 2004

Calibration Files

| | | | | | |
|---|---|---|---|---|---|
| 1 | =06.D | 2 | =05.D | 3 | =04.D |
| 4 | =03.D | 5 | =02.D | 6 | =25.D |

| | | Compound | 1 | 2 | 3 | 4 | 5 | 6 | Avg | | %RSD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | S | 3,5 dichlorobenz | | | | | | | 3.080 | E8 | 0.00 | |
| 2) | | dalapon | 1.978 | 2.086 | 2.107 | 1.831 | 1.772 | 1.993 | 1.954 | E9 | 6.38 | |
| 3) | | dicamba | 4.806 | 5.633 | 5.755 | 4.695 | 4.717 | 5.017 | 5.050 | E9 | 9.00 | |
| 4) | | 2,4D | 1.319 | 1.684 | 1.621 | 1.555 | 1.665 | 1.719 | 1.607 | E9 | 8.57 | |
| 5) | | PCP | 19.139 | 20.880 | 19.440 | 17.410 | 17.489 | 19.512 | 18.897 | E9 | 6.51 | |
| 6) | | 2,4,5TP | 7.290 | 8.070 | 7.680 | 7.127 | 7.046 | 7.665 | 7.434 | E9 | 5.09 | |
| 7) | | 2,4,5T | 6.133 | 6.953 | 6.958 | 6.440 | 6.516 | 7.121 | 6.704 | E9 | 5.24 | |
| 8) | | dinoseb | 5.002 | 5.615 | 5.611 | 4.765 | 4.764 | 5.184 | 5.107 | E9 | 7.38 | |
| 9) | | picloram | 4.695 | 5.115 | 5.578 | 6.605 | 6.580 | 7.001 | 6.073 | E9 | 15.35 | |
| 10) | | DCPA | 6.788 | 7.011 | 6.358 | 6.614 | 6.203 | | 6.595 | E9 | 4.91 | |

(#) = Out of Range ### Number of calibration levels exceeded format ###

515F060704.M Thu Jun 17 12:10:18 2004

## SURROGATE RECOVERY SUMMARY

method: 8151
surrogate: 3,5 dichlorobenzoic acid 20 ppb

| sample | matrix | % recovery |
|---|---|---|
| method blank | TCLP | 88 |
| MS | TCLP | 105 |
| MSD | TCLP | 95 |
| 242358.04 | TCLP | 105 |

% recovery limits

| | |
|---|---|
| UCL | 125 |
| UWL | 110 |
| LWL | 47 |
| LCL | 32 |

HERBICIDES
MS/MSD SUMMARY

instrument: SVGC 7
method: 8151

| compound | unspiked conc. (ug/L) | spike conc. (ug/L) | TCLP MS conc. (ug/L) | MS % rec. | TCLP MSD conc. (ug/L) | MSD % rec. | % rec. limits | MS,MSD difference | difference limit |
|---|---|---|---|---|---|---|---|---|---|
| 2,4 D | 0 | 4.0 | 4.1 | 103% | 3.5 | 88% | 21 - 166 | 0.6 | 1.3 |
| 2,4,5 TP | 0 | 4.0 | 3.4 | 85% | 3.0 | 75% | 48 - 99 | 0.4 | 1.3 |

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060704F\18.D
Acq On : 08 Jun 2004 1:34 am
Sample : met bl x10 6/3/04
Misc :
IntFile : events3.e
Quant Time: Jun 08 10:08:06 2004 Quant Results File: 515F060704.RES

Vial: 18
Operator: K.B.
Inst : gc7
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\515F060704.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 08 09:43:22 2004
Response via : Initial Calibration
DataAcq Meth : 515F.M

Volume Inj. :
Signal Phase :
Signal Info :

| | Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | |
| 1) S | 3,5 dichlorobenzoic acid | 16.38 | 27113838272 | 88.025 | | m |
| | Target Compounds | | | | | |
| 2) | dalapon | 0.00 | 0 | N.D. | ppb | |
| 3) | dicamba | 0.00 | 0 | N.D. | ppb | |
| 4) | 2,4D | 0.00 | 0 | N.D. | ppb | |
| 5) | PCP | 0.00 | 0 | N.D. | ppb | |
| 6) | 2,4,5TP | 0.00 | 0 | N.D. | ppb | |
| 7) | 2,4,5T | 25.27 | 53663633 | 0.015 | ppb | m |
| 8) | dinoseb | 0.00 | 0 | N.D. | ppb | |
| 9) | picloram | 0.00 | 0 | N.D. | ppb | |
| 10) | DCPA | 0.00 | 0 | N.D. | ppb | |



(f)=RT Delta > 1/2 Window (m)=manual int.
18.D 515F060704.M Thu Jun 17 12:12:09 2004

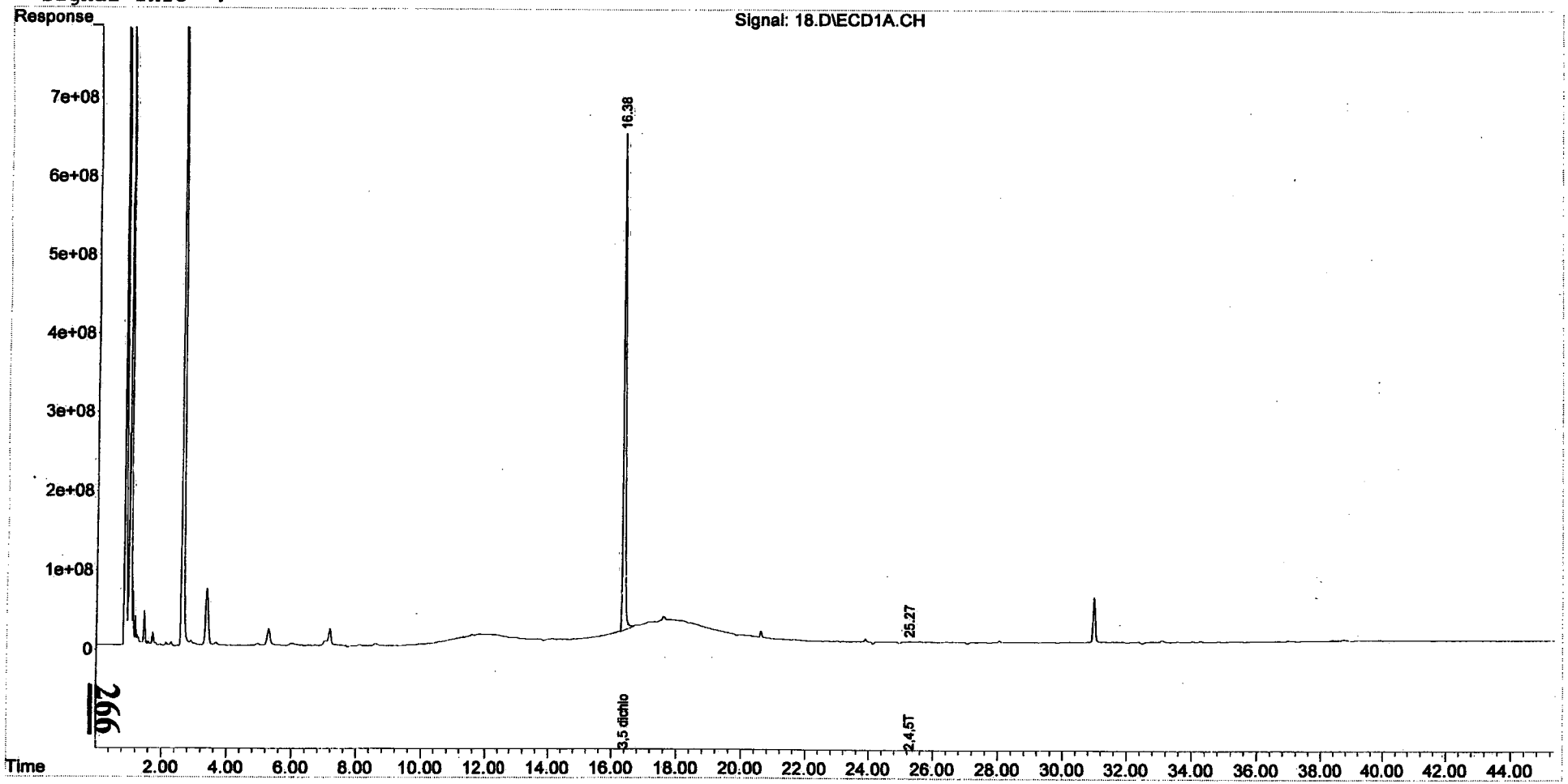
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060704F\18.D
Acq On : 08 Jun 2004 1:34 am
Sample : met bl x10 6/3/04
Misc :
IntFile : events3.e
Quant Time: Jun 8 10:09 2004 Quant Results File: 515F060704.RES

Vial: 18
Operator: K.B.
Inst : gc7
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\515F060704.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 08 09:43:22 2004
Response via : Multiple Level Calibration
DataAcq Meth : 515F.M

Volume Inj. :
Signal Phase :
Signal Info :

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060704F\22.D
Acq On : 08 Jun 2004 5:08 am
Sample : 2358.04 x10
Misc :
IntFile : events3.e
Quant Time: Jun 08 10:18:26 2004 Quant Results File: 515F060704.RES

Vial: 22
Operator: K.B.
Inst : gc7
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\515F060704.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 08 09:43:22 2004
Response via : Initial Calibration
DataAcq Meth : 515F.M

Volume Inj. :
Signal Phase :
Signal Info :

| | Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | |
| 1) S | 3,5 dichlorobenzoic acid | 16.38 | 32459385053 | 105.379 | | m |
| | Target Compounds | | | | | |
| 2) | dalapon | 0.00 | 0 | N.D. | ppb | |
| 3) | dicamba | 0.00 | 0 | N.D. | ppb | |
| 4) | 2,4D | 0.00 | 0 | N.D. | ppb | |
| 5) | PCP | 0.00 | 0 | N.D. | ppb | |
| 6) | 2,4,5TP | 0.00 | 0 | N.D. | ppb | d |
| 7) | 2,4,5T | 25.26 | 107772075 | 0.023 | ppb | m |
| 8) | dinoseb | 25.48 | 4755169898 | 0.958 | ppb | m |
| 9) | picloram | 29.46f | 97124974 | 0.044 | ppb | m |
| 10) | DCPA | 0.00 | 0 | N.D. | ppb | d |

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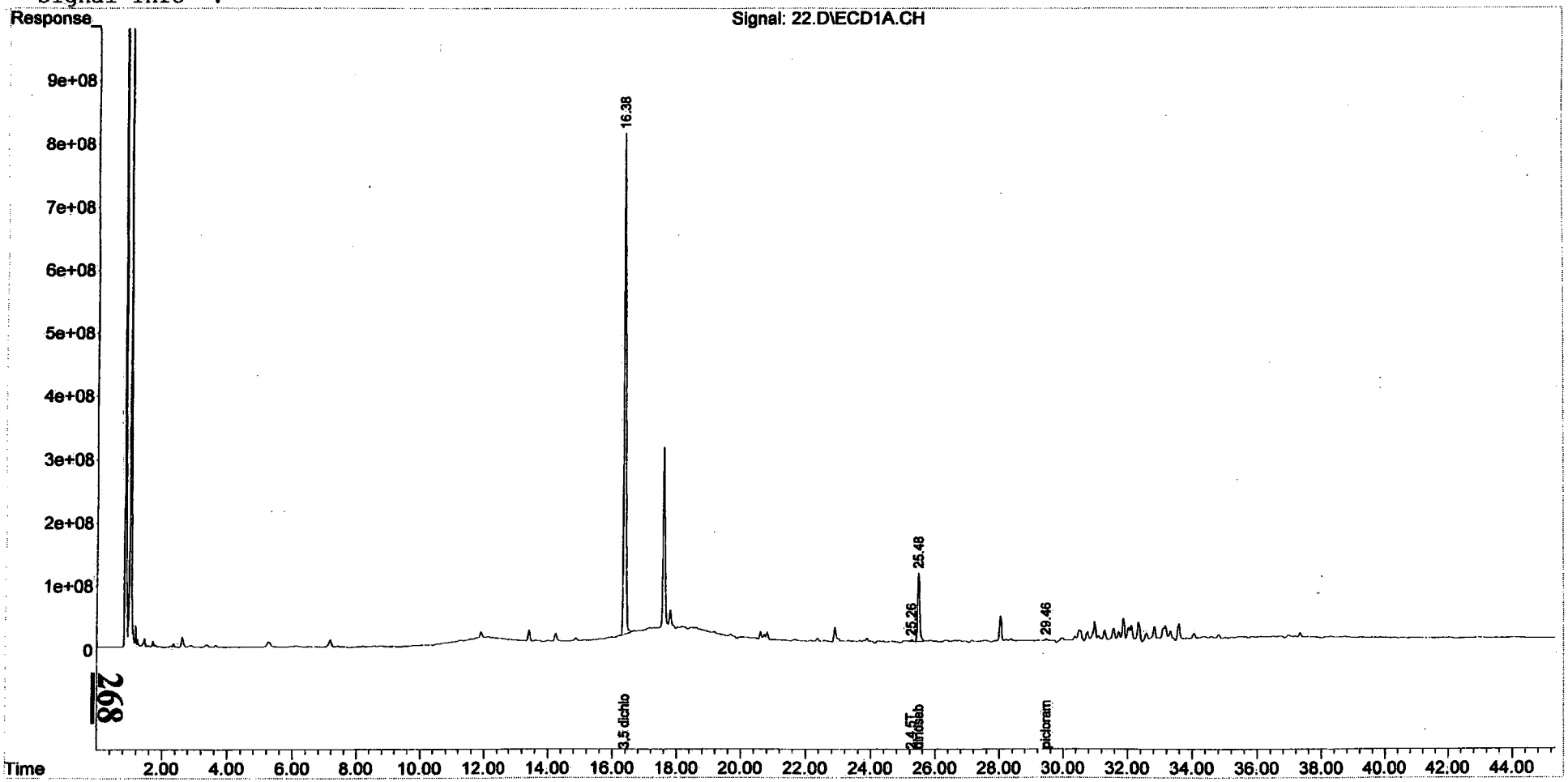
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060704F\22.D Vial: 22
Acq On : 08 Jun 2004 5:08 am Operator: K.B.
Sample : 2358.04 x10 Inst : gc7
Misc : Multiplr: 1.00
IntFile : events3.e
Quant Time: Jun 8 10:19 2004 Quant Results File: 515F060704.RES

Quant Method : C:\MSDCHEM\1\METHODS\515F060704.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 08 09:43:22 2004
Response via : Multiple Level Calibration
DataAcq Meth : 515F.M

Volume Inj. :
Signal Phase :
Signal Info :

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METALS QC DELIVERABLES INCLUDING:
CONFORMANCE/NONCONFORMANCE SUMMARIES, METHODOLOGY REVIEW, LABORATORY CHRONICAL, ANALYTICAL RESULTS SUMMARY, BLANK RESULTS SUMMARY, CALIBRATION RESULTS SUMMARY, ICP INTERFERENCE CHECK SAMPLE SUMMARY, SPIKED SAMPLE RESULTS SUMMARY, DUPLICATE SAMPLE RESULTS SUMMARY, LABORATORY CONTROL SAMPLE RESULTS SUMMARY FOR ECOTEST SAMPLE Nos. 242358.03-.04

# CONFORMANCE / NON-CONFORMANCE SUMMARY

Metals

## QC Package for Sample Batch 242358.03 - .04

< QC criteria were met for the following unless otherwise stated :

* Method Blank
* Duplicate RPD
* Spike % Recoveries
* Reference Sample
* Holding Time (SW846)
* Laboratory Control Standard
* Interference Check Standard

< Selenium analyzed by Method 6010, has an elevated detection limit due to matrix interferences.

< Barium in sol'n B is outside control Limits.

< Barium, Lead, and Nickel in sol'n AB are outside control Limits.

## METHODOLOGY REVIEW

Metals

| Target Analyte | Digestion Method | Analysis Method | Ins't Used |
|---|---|---|---|
| Antimony | EPA3010 | EPA6010 | PE3300XL |
| Arsenic | EPA3010 | EPA6010 | PE3300XL |
| Barium | EPA3010 | EPA6010 | PE3300XL |
| Beryllium | EPA3010 | EPA6010 | PE3300XL |
| Cadmium | EPA3010 | EPA6010 | PE3300XL |
| Chromium | EPA3010 | EPA6010 | PE3300XL |
| Copper | EPA3010 | EPA6010 | PE3300XL |
| Lead | EPA3010 | EPA6010 | PE3300XL |
| Mercury | EPA7470A | EPA7470A | PEFIMS100 |
| Nickel | EPA3010 | EPA6010 | PE3300XL |
| Selenium | EPA3010 | EPA7740 | PE5100Z |
| Selenium | EPA3010 | EPA6010 | PE3300XL |
| Silver | EPA3010 | EPA6010 | PE3300XL |
| Thallium | EPA3010 | EPA6010 | PE3300XL |
| Zinc | EPA3010 | EPA6010 | PE3300XL |
| | | | |

## LABORATORY CHRONICLE

Metals

Sample I.D. 242358.03

| Analyte ID | Date Sample Rec'd | Date of Digestion | Holding Time (days) | Date of Analysis | Holding Time (days) |
|---|---|---|---|---|---|
| Antimony | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Arsenic | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Barium | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Beryllium | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Cadmium | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Chromium | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Copper | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Lead | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Mercury | 06/02/04 | 06/03/04 | 1 | 06/04/04 | 1 |
| Nickel | 06/02/04 | 06/03/04 | 1 | 06/04/04 | 1 |
| Selenium | 06/02/04 | 06/03/04 | 1 | 06/04/04 | 1 |
| Silver | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Thallium | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Zinc | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| | | | | | |

## LABORATORY CHRONICLE

Metals

Sample I.D. 242358.04

| Sample ID | Date Sample Rec'd | Date of Digestion | Holding Time (days) | Date of Analysis | Holding Time (days) |
|---|---|---|---|---|---|
| Arsenic | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Barium | 06/02/04 | 06/03/04 | 1 | 06/04/04 | 4 |
| Cadmium | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Chromium | 06/02/04 | 06/03/04 | 1 | 06/04/04 | 4 |
| Lead | 06/02/04 | 06/03/04 | 1 | 06/04/04 | 4 |
| Mercury | 06/02/04 | 06/03/04 | 1 | 06/04/04 | 1 |
| Selenium | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Silver | 06/02/04 | 06/03/04 | 1 | 06/04/04 | 4 |
| | | | | | |

## ANALYTICAL RESULTS SUMMARY

Metals

Sample I.D. : 242358.04
Matrix : TCLP
% Moisture : >95%
Date Recieved : 06/02/04

| Target Analyte | Date Analyzed | Digested Dilution | Analysis Dil. | Reported Conc. | MDL |
|---|---|---|---|---|---|
| Arsenic | 06/07/04 | 10 | 10 | <0.1 | 0.01 |
| Barium | 06/07/04 | 10 | 10 | 1.7 | 0.005 |
| Cadmium | 06/07/04 | 10 | 10 | <0.05 | 0.005 |
| Chromium | 06/07/04 | 10 | 10 | <0.05 | 0.005 |
| Lead | 06/07/04 | 10 | 10 | <0.05 | 0.005 |
| Mercury | 06/04/04 | 4 | 4 | <0.001 | 0.00025 |
| Selenium | 06/07/04 | 10 | 10 | <1 | 0.1* |
| Silver | 06/07/04 | 10 | 10 | <0.05 | 0.005 |
| | | | | | |

## ANALYTICAL RESULTS SUMMARY

Metals

Sample I.D. : 242358.03
Matrix : SOIL
% Moisture : 49%
Date Recieved : 06/02/04

| Target Analyte | Date Analyzed | Digested Dilution | Analysis Dil. | Reported Conc. | MDL |
|---|---|---|---|---|---|
| Antimony | 06/07/04 | 25 | 1000 | 53 | 0.02 |
| Arsenic | 06/07/04 | 25 | 500 | 22 | 0.01 |
| Beryllium | 06/07/04 | 25 | 500 | <0.98 | 0.001 |
| Cadmium | 06/07/04 | 25 | 1000 | 5 | 0.005 |
| Chromium | 06/07/04 | 25 | 1000 | 1100 | 0.005 |
| Copper | 06/07/04 | 25 | 1000 | 1300 | 0.01 |
| Lead | 06/07/04 | 25 | 1000 | 6700 | 0.005 |
| Mercury | 06/04/04 | 20 | 400 | 4.3 | 0.00025 |
| Nickel | 06/07/04 | 25 | 1000 | 140 | 0.01 |
| Selenium | 06/04/04 | 25 | 500 | 7.6 | 0.002 |
| Silver | 06/07/04 | 25 | 1000 | 37 | 0.005 |
| Thallium | 06/07/04 | 25 | 500 | <9.8 | 0.02 |
| Zinc | 06/07/04 | 25 | 1000 | 5900 | 0.01 |
| | | | | | |

## BLANK RESULTS SUMMARY

Metals

| Target Analyte | Calibration Blank Conc. | Method Blank Tclp | Method Blank Soil | MDL |
|---|---|---|---|---|
| Antimony | -0.0042 | N/A | -0.0004 | 0.02 |
| Arsenic | -0.0047 | -0.0011 | 0.0012 | 0.01 |
| Barium | 0.0000 | 0.0155 | 0.0003 | 0.005 |
| Beryllium | 0.0000 | N/A | 0.0000 | 0.001 |
| Cadmium | 0.0001 | -0.0004 | -0.0002 | 0.005 |
| Chromium | -0.0002 | 0.0000 | 0.0017 | 0.005 |
| Copper | 0.0022 | N/A | 0.0030 | 0.01 |
| Lead | -0.0017 | -0.0038 | -0.0021 | 0.005 |
| Mercury | 0.0000 | -0.00002 | 0.0000 | 0.00025 |
| Nickel | 0.0000 | N/A | 0.0010 | 0.01 |
| Selenium | -0.0007 | N/A | 0.0003 | 0.002 |
| Selenium | -0.0055 | -0.00350 | N/A | 0.1* |
| Silver | -0.0001 | -0.0010 | -0.0010 | 0.005 |
| Thallium | 0.0021 | N/A | -0.0007 | 0.02 |
| Zinc | 0.0004 | N/A | 0.0055 | 0.01 |
| | | | | |

Concentration Units : mg/L

*See Conformance / Non-Conformance Sheet

## CALIBRATION RESULTS SUMMARY

Metals

| Target Analyte | TRUE Calibration Conc. | ICVS Conc. | Rec. % | ICVS Limits % | CCVS Conc. | Rec. % | CCVS Limits % | IDL | MDL |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.500 | 0.498 | 99.6 | 95-105 | 0.484 | 96.8 | 90-110 | 0.0025 | 0.02 |
| Arsenic | 0.500 | 0.493 | 98.6 | 95-105 | 0.479 | 95.8 | 90-110 | 0.0027 | 0.01 |
| Barium | 0.500 | 0.486 | 97.2 | 95-105 | 0.443 | 88.6* | 90-110 | 0.0002 | 0.005 |
| Beryllium | 0.500 | 0.502 | 100.4 | 95-105 | 0.475 | 95.0 | 90-110 | 0.0001 | 0.001 |
| Cadmium | 0.500 | 0.502 | 100.4 | 95-105 | 0.466 | 93.2 | 90-110 | 0.0001 | 0.005 |
| Chromium | 0.500 | 0.501 | 100.2 | 95-105 | 0.474 | 94.8 | 90-110 | 0.0003 | 0.005 |
| Copper | 0.500 | 0.498 | 99.6 | 95-105 | 0.496 | 99.2 | 90-110 | 0.0054 | 0.01 |
| Lead | 0.500 | 0.502 | 100.4 | 95-105 | 0.466 | 93.2 | 90-110 | 0.0024 | 0.005 |
| Mercury | 0.003 | 0.00304 | 101.3 | 95-105 | 0.00285 | 95.0 | 90-110 | 0.00020 | 0.00025 |
| Nickel | 0.500 | 0.505 | 101.0 | 95-105 | 0.477 | 95.4 | 90-110 | 0.0036 | 0.01 |
| Selenium | 0.020 | 0.019 | 95.0 | 95-105 | 0.019 | 93.5 | 90-110 | 0.002 | 0.002 |
| Selenium | 0.500 | 0.504 | 100.8 | 95-105 | 0.490 | 98.0 | 90-110 | 0.005 | 0.1* |
| Silver | 0.100 | 0.0998 | 99.8 | 95-105 | 0.0949 | 94.9 | 90-110 | 0.0013 | 0.005 |
| Thallium | 0.500 | 0.485 | 97.0 | 95-105 | 0.455 | 91.0 | 90-110 | 0.0035 | 0.02 |
| Zinc | 0.500 | 0.499 | 99.8 | 95-105 | 0.474 | 94.8 | 90-110 | 0.001 | 0.01 |
| | | | | | | | | | |

Concentration Units : mg/L

*See Conformance / Non-Conformance Sheet

## ICP INTERFERENCE CHECK SAMPLE RESULTS SUMMARY

Metals

| Target Analyte | TRUE Value Sol'n B | Reported Conc. Sol'n B | Rec. % | Reported Conc. Sol'n AB | Rec. % | Control Limits % |
|---|---|---|---|---|---|---|
| Barium | 0.500 | 0.441 | 88.2* | 0.425 | 85.0* | 90-110 |
| Beryllium | 0.500 | 0.478 | 95.6 | 0.487 | 97.4 | 90-110 |
| Cadmium | 1.000 | 0.941 | 94.1 | 0.904 | 90.4 | 90-110 |
| Chromium | 0.500 | 0.472 | 94.4 | 0.459 | 91.8 | 90-110 |
| Copper | 0.500 | 0.492 | 98.4 | 0.531 | 106.2 | 90-110 |
| Lead | 1.000 | 0.950 | 95.0 | 0.864 | 86.4* | 90-110 |
| Nickel | 1.000 | 0.937 | 93.7 | 0.778 | 77.8* | 90-110 |
| Silver | 1.000 | 0.968 | 96.8 | 1.060 | 106.0 | 90-110 |
| Zinc | 1.000 | 0.969 | 96.9 | 1.070 | 107.0 | 90-110 |
| | | | | | | |

Concentration Units : mg/L

*See Conformance / Non-Conformance Sheet

## SPIKED SAMPLE RESULTS SUMMARY

Metals

| Target Analyte | Matrix | Sample ID | Dilution | Sample Conc. | Spike Conc. | Spiked Sample | Rec. % | QC Limits % Rec. |
|---|---|---|---|---|---|---|---|---|
| Antimony | tclp | 242358.04 | 10 | -0.0099 | 0.200 | 0.195 | 102.5 | 92-117 |
| Arsenic | tclp | 242358.04 | 10 | -0.0092 | 0.400 | 0.420 | 107.3 | 97-120 |
| Barium | tclp | 242358.04 | 10 | 0.169 | 0.400 | 0.521 | 88.0 | 86-112 |
| Beryllium | tclp | 242358.04 | 10 | -0.0001 | 0.400 | 0.425 | 106.3 | 97-115 |
| Cadmium | tclp | 242358.04 | 10 | 0.0007 | 0.400 | 0.403 | 100.6 | 90-120 |
| Chromium | tclp | 242358.04 | 10 | -0.0001 | 0.400 | 0.402 | 100.5 | 62-135 |
| Copper | tclp | 242358.04 | 10 | -0.0015 | 0.400 | 0.440 | 110.4 | 82-141 |
| Lead | tclp | 242358.04 | 10 | -0.0004 | 0.400 | 0.392 | 98.1 | 60-135 |
| Mercury | tclp | 242358.00 | 4 | -0.00002 | 0.003 | 0.00289 | 97.0 | 87-113 |
| Nickel | tclp | 242358.04 | 10 | 0.006 | 0.400 | 0.398 | 98.0 | 42-149 |
| Selenium | soil | 242366.01 | 500 | -0.0002 | 0.020 | 0.0179 | 90.5 | 45-117 |
| Selenium | tclp | 242358.04 | 10 | -0.0671 | 0.400 | 0.295 | 90.5 | 67-136 |
| Silver | tclp | 242358.04 | 10 | -0.0009 | 0.080 | 0.0984 | 124.1 | 24-165 |
| Thallium | tclp | 242358.04 | 10 | 0.0028 | 0.400 | 0.398 | 98.8 | 76-122 |
| Zinc | tclp | 242358.04 | 10 | 0.162 | 0.400 | 0.609 | 111.8 | 81-130 |
| | | | | | | | | |

Concentration Units : mg/L

* See Conformance / Non-Conformance Sheet

## DUPLICATE SAMPLE RESULTS SUMMARY

Metals

| Target Analyte | Matrix | Sample ID | Dilution | Sample Conc. | Duplicate Sample Conc. | Dif. | QC Limits |
|---|---|---|---|---|---|---|---|
| Antimony | tclp | 242358.04 | 10 | -0.0099 | -0.0076 | 0.0023 | 0.005 |
| Arsenic | tclp | 242358.04 | 10 | -0.0092 | -0.0076 | 0.0016 | 0.006 |
| Barium | tclp | 242358.04 | 10 | 0.169 | 0.166 | 0.003 | 0.013 |
| Beryllium | tclp | 242358.04 | 10 | -0.0001 | -0.0001 | 0.0000 | 0.001 |
| Cadmium | tclp | 242358.04 | 10 | 0.0007 | 0.0006 | 0.0001 | 0.001 |
| Chromium | tclp | 242358.04 | 10 | -0.0001 | 0.0000 | 0.0001 | 0.017 |
| Copper | tclp | 242358.04 | 10 | -0.0015 | -0.0015 | 0.0000 | 0.011 |
| Lead | tclp | 242358.04 | 10 | -0.0004 | -0.0016 | 0.0012 | 0.032 |
| Mercury | tclp | 242358.00 | 4 | -0.00002 | -0.00001 | 0.0000 | 0.0048 |
| Nickel | tclp | 242358.04 | 10 | 0.006 | 0.006 | 0.000 | 0.004 |
| Selenium | soil | 242366.01 | 500 | -0.0002 | -0.0008 | 0.0006 | 0.0018 |
| Selenium | tclp | 242358.04 | 10 | -0.0671 | -0.0779 | 0.0108 | 0.021 |
| Silver | tclp | 242358.04 | 10 | -0.0009 | -0.001 | 0.0001 | 0.001 |
| Thallium | tclp | 242358.04 | 10 | 0.0028 | 0.0003 | 0.0025 | 0.005 |
| Zinc | tclp | 242358.04 | 10 | 0.162 | 0.155 | 0.007 | 0.066 |
| | | | | | | | |

Concentration Units : mg/L

## LABORATORY CONTROL SAMPLE RESULTS SUMMARY

Metals

| Target Analyte | Matrix | TRUE Conc. | Reported Conc. | Rec. % | QC Limits |
|---|---|---|---|---|---|
| Antimony | water | 0.100 | 0.0993 | 99.3 | 0.094-0.116 |
| Arsenic | water | 0.100 | 0.0982 | 98.2 | 0.102-0.123 |
| Barium | water | 0.100 | 0.101 | 101.0 | 0.098-0.110 |
| Beryllium | water | 0.100 | 0.103 | 103.0 | 0.099-0.113 |
| Cadmium | water | 0.100 | 0.100 | 100.0 | 0.098-0.113 |
| Chromium | water | 0.100 | 0.103 | 103.0 | 0.096-0.111 |
| Copper | water | 0.100 | 0.104 | 104.0 | 0.100-0.112 |
| Lead | water | 0.100 | 0.100 | 100.0 | 0.095-0.112 |
| Mercury | water | 0.004 | 0.00386 | 96.5 | 0.0036-0.0046 |
| Nickel | water | 0.100 | 0.101 | 101.0 | 0.095-0.116 |
| Selenium | water | 0.100 | 0.0998 | 99.8 | 0.088-0.120 |
| Selenium | water | 0.016 | 0.0161 | 100.6 | 0.0103-0.0204 |
| Silver | water | 0.100 | 0.102 | 102.0 | 0.090-0.121 |
| Thallium | water | 0.100 | 0.100 | 100.0 | 0.091-0.110 |
| Zinc | water | 0.100 | 0.104 | 104.0 | 0.098-0.119 |
| | | | | | |

METALS INSTRUMENT PRINTOUTS FOR EPA METHODS 6010/200.7FOR ECOTEST SAMPLE Nos. 242358.03-.04

# EPA 6010

06/07/04

EcoTest Laboratories
377 Sheffield Avenue
N. Babylon, NY 11703

**Mean Data**

**ID:** Calib Blank 1 **Seq. No.:** 1 **A/S Pos:** 7

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 09:35:37

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,867,843.0 | [0.00] | 3,262.82 | mg/L | | | | 0.11 % |
| Y 324.227 | 1,116,005.6 | [0.00] | 1,081.81 | mg/L | | | | 0.10 % |
| Sc 361.383 | 3,386,702.8 | [0.00] | 1,376.76 | mg/L | | | | 0.04 % |
| Sc 357.253 | 2,203,696.5 | [0.00] | 1,470.30 | mg/L | | | | 0.07 % |
| Ag 328.068 | 1,143.3 | [0.00] | 26.34 | mg/L | | | | 2.30 % |
| As 188.979 | 0.8 | [0.00] | 1.19 | mg/L | | | | 158.48 % |
| Ba 493.408 | 2,702.4 | [0.00] | 55.16 | mg/L | | | | 2.04 % |
| Be 313.107 | -1,960.5 | [0.00] | 13.01 | mg/L | | | | 0.66 % |
| Cd 214.440 | 163.9 | [0.00] | 1.15 | mg/L | | | | 0.70 % |
| Pb 220.353 | 68.0 | [0.00] | 2.98 | mg/L | | | | 4.38 % |
| Sb 206.836 | 14.0 | [0.00] | 0.81 | mg/L | | | | 5.78 % |
| Se 196.026 | 1.6 | [0.00] | 0.78 | mg/L | | | | 50.08 % |
| Tl 190.801 | -0.5 | [0.00] | 1.24 | mg/L | | | | 226.29 % |
| Zn 213.857 | 148.3 | [0.00] | 1.17 | mg/L | | | | 0.79 % |
| Cr 267.716 | -182.5 | [0.00] | 22.90 | mg/L | | | | 12.55 % |
| Cu 327.393 | -916.2 | [0.00] | 20.68 | mg/L | | | | 2.26 % |
| Ni 227.022 | 11.6 | [0.00] | 1.59 | mg/L | | | | 13.73 % |

**Mean Data**

**ID:** Calib Blank 2 **Seq. No.:** 2 **A/S Pos:** 7

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 09:40:04

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,850,803.8 | [0.00] | 11,679.11 | mg/L | | | | 0.41 % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Y 324.227 | 1,110,187.9 | [0.00] | 4,885.35 | mg/L | | | | 0.44 % |
| Sc 361.383 | 3,364,124.2 | [0.00] | 15,159.73 | mg/L | | | | 0.45 % |
| Sc 357.253 | 2,192,526.5 | [0.00] | 11,368.06 | mg/L | | | | 0.52 % |

**Mean Data**

**ID:** Calib Std 1 **Seq. No.:** 3 **A/S Pos:** 3

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 09:45:07

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,914,375.6 | 1.02 | 30,867.03 | mg/L | | | | 1.06 % |
| Y 324.227 | 1,133,162.9 | 1.02 | 11,097.31 | mg/L | | | | 0.98 % |
| Sc 361.383 | 3,425,377.9 | 1.01 | 2,385.43 | mg/L | | | | 0.07 % |
| Sc 357.253 | 2,245,735.3 | 1.02 | 23,492.84 | mg/L | | | | 1.05 % |
| Ag 328.068 | 24,359.6 | [0.10] | 270.80 | mg/L | | | | 1.11 % |
| As 188.979 | 164.9 | [0.50] | 2.80 | mg/L | | | | 1.70 % |
| Ba 493.408 | 2,938,206.5 | [0.50] | 31,209.59 | mg/L | | | | 1.06 % |
| Be 313.107 | 1,751,062.1 | [0.50] | 17,244.08 | mg/L | | | | 0.98 % |
| Cd 214.440 | 20,850.7 | [0.50] | 167.74 | mg/L | | | | 0.80 % |
| Pb 220.353 | 2,156.0 | [0.50] | 20.47 | mg/L | | | | 0.95 % |
| Sb 206.836 | 275.9 | [0.50] | 1.41 | mg/L | | | | 0.51 % |
| Se 196.026 | 144.0 | [0.50] | 2.28 | mg/L | | | | 1.58 % |
| Tl 190.801 | 107.9 | [0.50] | 0.78 | mg/L | | | | 0.72 % |
| Zn 213.857 | 15,496.7 | [0.50] | 115.94 | mg/L | | | | 0.75 % |
| Cr 267.716 | 55,927.4 | [0.50] | 469.08 | mg/L | | | | 0.84 % |
| Cu 327.393 | 88,874.2 | [0.50] | 224.73 | mg/L | | | | 0.25 % |
| Ni 227.022 | 2,983.3 | [0.50] | 21.67 | mg/L | | | | 0.73 % |

**Mean Data**

**ID:** Calib Std 2 **Seq. No.:** 4 **A/S Pos:** 4

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 09:49:42

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,858,978.0 | 0.997 | 12,108.89 | mg/L | | | | 0.42 % |
| Y 324.227 | 1,115,349.3 | 0.999 | 4,938.48 | mg/L | | | | 0.44 % |
| Sc 361.383 | 3,373,301.8 | 0.996 | 15,967.56 | mg/L | | | | 0.47 % |
| Sc 357.253 | 2,209,367.0 | 1.00 | 10,137.04 | mg/L | | | | 0.46 % |

**Mean Data**

**ID:** Calib Std 3 **Seq. No.:** 5 **A/S Pos:** 5

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 09:54:01

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,810,746.8 | 0.980 | 28,182.78 | mg/L | | | | 1.00 % |
| Y 324.227 | 1,098,013.0 | 0.984 | 10,486.75 | mg/L | | | | 0.96 % |
| Sc 361.383 | 3,336,701.8 | 0.985 | 15,815.18 | mg/L | | | | 0.47 % |
| Sc 357.253 | 2,182,985.7 | 0.991 | 22,613.58 | mg/L | | | | 1.04 % |

**Mean Data**

**ID:** Calib Std 4 **Seq. No.:** 6 **A/S Pos:** 6

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 09:57:55

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,683,944.5 | 0.936 | 14,118.40 | mg/L | | | | 0.53 % |
| Y 324.227 | 1,050,035.1 | 0.941 | 5,330.24 | mg/L | | | | 0.51 % |
| Sc 361.383 | 3,178,513.0 | 0.939 | 19,089.49 | mg/L | | | | 0.60 % |
| Sc 357.253 | 2,153,761.0 | 0.977 | 10,011.89 | mg/L | | | | 0.46 % |

**Mean Data**

**ID:** Calib Std 5 **Seq. No.:** 7 **A/S Pos:** 1

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 10:01:28

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,878,884.0 | 1.00 | 7,108.45 | mg/L | | | | 0.25 % |
| Y 324.227 | 1,121,708.6 | 1.01 | 2,681.85 | mg/L | | | | 0.24 % |
| Sc 361.383 | 3,381,839.9 | 0.999 | 11,122.65 | mg/L | | | | 0.33 % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sc 357.253 | 2,219,080.0 | 1.01 | 7,578.50 | mg/L | | | | 0.34 % |

**Mean Data**

**ID:** LCS 1 **Seq. No.:** 8 **A/S Pos:** 2

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 10:21:30

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,857,401.1 | 0.996 | 0.0060 | mg/L | | | | 0.60 % |
| Y 324.227 | 1,116,843.5 | 1.00 | 0.006 | mg/L | | | | 0.61 % |
| Sc 361.383 | 3,368,912.1 | 0.995 | 0.0064 | mg/L | | | | 0.64 % |
| Sc 357.253 | 2,218,072.1 | 1.01 | 0.007 | mg/L | | | | 0.68 % |
| Ag 328.068 | 24,840.2 | 0.102 | 0.0002 | mg/L | 0.102 | | | 0.15 % |
| As 188.979 | 32.4 | 0.0982 | 0.00206 | mg/L | 0.0982 | | | 2.10 % |
| Ba 493.408 | 591,173.3 | 0.101 | 0.0006 | mg/L | 0.101 | | | 0.59 % |
| Be 313.107 | 361,348.4 | 0.103 | 0.0002 | mg/L | 0.103 | | | 0.21 % |
| Cd 214.440 | 4,189.7 | 0.100 | 0.0007 | mg/L | 0.100 | | | 0.66 % |
| Pb 220.353 | 432.4 | 0.100 | 0.0014 | mg/L | 0.100 | | | 1.36 % |
| Sb 206.836 | 54.8 | 0.0993 | 0.00607 | mg/L | 0.0993 | | | 6.11 % |
| Se 196.026 | 28.7 | 0.0998 | 0.00814 | mg/L | 0.0998 | | | 8.16 % |
| Tl 190.801 | 21.6 | 0.100 | 0.0014 | mg/L | 0.100 | | | 1.40 % |
| Zn 213.857 | 3,225.1 | 0.104 | 0.0010 | mg/L | 0.104 | | | 0.96 % |
| Cr 267.716 | 11,480.5 | 0.103 | 0.0004 | mg/L | 0.103 | | | 0.35 % |
| Cu 327.393 | 18,510.0 | 0.104 | 0.0001 | mg/L | 0.104 | | | 0.12 % |
| Ni 227.022 | 604.6 | 0.101 | 0.0012 | mg/L | 0.101 | | | 1.16 % |

**Mean Data**

**ID:** ICCV(1) **Seq. No.:** 10 **A/S Pos:** 3

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 10:31:59

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,813,407.0 | 0.981 | 0.0022 | mg/L | | | | 0.23 % |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Y 324.227 | 1,097,773.8 | 0.984 | 0.0020 | mg/L | | | 0.21 % |
| Sc 361.383 | 3,308,306.1 | 0.977 | 0.0019 | mg/L | | | 0.19 % |
| Sc 357.253 | 2,176,782.9 | 0.988 | 0.0020 | mg/L | | | 0.20 % |
| Ag 328.068 | 24,303.4 | 0.0998 | 0.00059 | mg/L | 0.0998 | | 0.59 % |
| As 188.979 | 162.7 | 0.493 | 0.0019 | mg/L | 0.493 | | 0.39 % |
| Ba 493.408 | 2,858,100.0 | 0.486 | 0.0014 | mg/L | 0.486 | | 0.28 % |
| Be 313.107 | 1,756,620.9 | 0.502 | 0.0012 | mg/L | 0.502 | | 0.24 % |
| Cd 214.440 | 20,937.8 | 0.502 | 0.0015 | mg/L | 0.502 | | 0.30 % |
| Pb 220.353 | 2,165.2 | 0.502 | 0.0014 | mg/L | 0.502 | | 0.28 % |
| Sb 206.836 | 274.8 | 0.498 | 0.0014 | mg/L | 0.498 | | 0.29 % |
| Se 196.026 | 145.1 | 0.504 | 0.0035 | mg/L | 0.504 | | 0.69 % |
| Tl 190.801 | 104.6 | 0.485 | 0.0064 | mg/L | 0.485 | | 1.32 % |
| Zn 213.857 | 15,472.0 | 0.499 | 0.0024 | mg/L | 0.499 | | 0.48 % |
| Cr 267.716 | 56,018.0 | 0.501 | 0.0019 | mg/L | 0.501 | | 0.39 % |
| Cu 327.393 | 88,515.7 | 0.498 | 0.0010 | mg/L | 0.498 | | 0.20 % |
| Ni 227.022 | 3,013.7 | 0.505 | 0.0017 | mg/L | 0.505 | | 0.34 % |

**Mean Data**

**ID:** CCB **Seq. No.:** 15 **A/S Pos:** 7

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 10:55:38

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,807,527.2 | 0.979 | 0.0037 | mg/L | | | mg/L | 0.38 % |
| Y 324.227 | 1,097,352.1 | 0.983 | 0.0033 | mg/L | | | mg/L | 0.34 % |
| Sc 361.383 | 3,291,327.9 | 0.972 | 0.0040 | mg/L | | | mg/L | 0.42 % |
| Sc 357.253 | 2,172,113.9 | 0.986 | 0.0040 | mg/L | | | mg/L | 0.41 % |
| Ag 328.068 | -31.8 | -0.0001 | 0.00011 | mg/L | -0.0001 | 0.00011 | mg/L | 87.87 % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| As 188.979 | -1.6 | -0.0047 | 0.00339 | mg/L | -0.0047 | 0.00339 | mg/L | 71.99 % |
| Ba 493.408 | 24.6 | 0.0000 | 0.00001 | mg/L | 0.0000 | 0.00001 | mg/L | 341.20 % |
| Be 313.107 | -160.9 | 0.0000 | 0.00001 | mg/L | 0.0000 | 0.00001 | mg/L | 16.97 % |
| Cd 214.440 | 5.0 | 0.0001 | 0.00013 | mg/L | 0.0001 | 0.00013 | mg/L | 107.28 % |
| Pb 220.353 | -7.5 | -0.0017 | 0.00139 | mg/L | -0.0017 | 0.00139 | mg/L | 79.99 % |
| Sb 206.836 | -2.3 | -0.0042 | 0.00151 | mg/L | -0.0042 | 0.00151 | mg/L | 36.30 % |
| Se 196.026 | -1.6 | -0.0055 | 0.00717 | mg/L | -0.0055 | 0.00717 | mg/L | 130.17 % |
| Tl 190.801 | 0.4 | 0.0021 | 0.00394 | mg/L | 0.0021 | 0.00394 | mg/L | 189.01 % |
| Zn 213.857 | 13.4 | 0.0004 | 0.00012 | mg/L | 0.0004 | 0.00012 | mg/L | 27.25 % |
| Cr 267.716 | -25.8 | -0.0002 | 0.00019 | mg/L | -0.0002 | 0.00019 | mg/L | 81.38 % |
| Cu 327.393 | 391.0 | 0.0022 | 0.00007 | mg/L | 0.0022 | 0.00007 | mg/L | 3.12 % |
| Ni 227.022 | 1.2 | 0.000 | 0.0001 | mg/L | 0.000 | 0.0001 | mg/L | 71.59 % |

**Mean Data**

**ID:** tclp 6/05 **Seq. No.:** 71 **A/S Pos:** 61

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 15:27:20

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,891,713.2 | 1.01 | 0.002 | mg/L | | | mg/L | 0.24 % |
| Y 324.227 | 1,144,673.4 | 1.03 | 0.002 | mg/L | | | mg/L | 0.21 % |
| Sc 361.383 | 3,455,003.3 | 1.02 | 0.002 | mg/L | | | mg/L | 0.20 % |
| Sc 357.253 | 2,322,489.5 | 1.05 | 0.002 | mg/L | | | mg/L | 0.23 % |
| Ag 328.068 | -245.9 | -0.0010 | 0.00004 | mg/L | -0.0010 | 0.00004 | mg/L | 4.36 % |
| As 188.979 | -0.4 | -0.0011 | 0.00640 | mg/L | -0.0011 | 0.00640 | mg/L | 571.10 % |
| Ba 493.408 | 91,326.0 | 0.0155 | 0.00001 | mg/L | 0.0155 | 0.00001 | mg/L | 0.06 % |
| Be 313.107 | -330.4 | -0.0001 | 0.00001 | mg/L | -0.0001 | 0.00001 | mg/L | 7.86 % |
| Cd 214.440 | -15.2 | -0.0004 | 0.00010 | mg/L | -0.0004 | 0.00010 | mg/L | 26.79 % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Pb 220.353 | -16.5 | -0.0038 | 0.00079 | mg/L | -0.0038 | 0.00079 | mg/L | 20.66 % |
| Sb 206.836 | -3.0 | -0.0054 | 0.00141 | mg/L | -0.0054 | 0.00141 | mg/L | 26.14 % |
| Se 196.026 | -1.0 | -0.0035 | 0.00121 | mg/L | -0.0035 | 0.00121 | mg/L | 34.28 % |
| Tl 190.801 | -1.7 | -0.0077 | 0.00696 | mg/L | -0.0077 | 0.00696 | mg/L | 90.81 % |
| Zn 213.857 | 406.3 | 0.0131 | 0.00005 | mg/L | 0.0131 | 0.00005 | mg/L | 0.37 % |
| Cr 267.716 | -2.8 | 0.0000 | 0.00028 | mg/L | 0.0000 | 0.00028 | mg/L | 1,118.18 % |
| Cu 327.393 | 167.0 | 0.0009 | 0.00010 | mg/L | 0.0009 | 0.00010 | mg/L | 10.94 % |
| Ni 227.022 | -1.2 | 0.000 | 0.0001 | mg/L | 0.000 | 0.0001 | mg/L | 64.54 % |

**Mean Data**

**ID:** TM 2358.04 x10 **Seq. No.:** 74 **A/S Pos:** 62

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 15:42:02

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,888,195.4 | 1.01 | 0.006 | mg/L | | | mg/L | 0.57 % |
| Y 324.227 | 1,141,755.5 | 1.02 | 0.006 | mg/L | | | mg/L | 0.59 % |
| Sc 361.383 | 3,448,645.3 | 1.02 | 0.005 | mg/L | | | mg/L | 0.51 % |
| Sc 357.253 | 2,313,965.9 | 1.05 | 0.005 | mg/L | | | mg/L | 0.46 % |
| Ag 328.068 | -223.8 | -0.0009 | 0.00002 | mg/L | -0.0009 | 0.00002 | mg/L | 1.80 % |
| As 188.979 | -3.0 | -0.0092 | 0.00445 | mg/L | -0.0092 | 0.00445 | mg/L | 48.22 % |
| Ba 493.408 | 991,899.7 | 0.169 | 0.0006 | mg/L | 0.169 | 0.0006 | mg/L | 0.34 % |
| Be 313.107 | -309.1 | -0.0001 | 0.00001 | mg/L | -0.0001 | 0.00001 | mg/L | 6.82 % |
| Cd 214.440 | 29.2 | 0.0007 | 0.00015 | mg/L | 0.0007 | 0.00015 | mg/L | 21.00 % |
| Pb 220.353 | -1.7 | -0.0004 | 0.00047 | mg/L | -0.0004 | 0.00047 | mg/L | 118.08 % |
| Sb 206.836 | -5.5 | -0.0099 | 0.00439 | mg/L | -0.0099 | 0.00439 | mg/L | 44.23 % |
| Se 196.026 | -19.3 | -0.0671 | 0.00446 | mg/L | -0.0671 | 0.00446 | mg/L | 6.65 % |
| Tl 190.801 | 0.6 | 0.0028 | 0.00685 | mg/L | 0.0028 | 0.00685 | mg/L | 240.91 % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Zn 213.857 | 5,019.9 | 0.162 | 0.0009 | mg/L | 0.162 | 0.0009 | mg/L | 0.54 % |
| Cr 267.716 | -9.9 | -0.0001 | 0.00002 | mg/L | -0.0001 | 0.00002 | mg/L | 25.52 % |
| Cu 327.393 | -260.9 | -0.0015 | 0.00007 | mg/L | -0.0015 | 0.00007 | mg/L | 4.92 % |
| Ni 227.022 | 38.2 | 0.006 | 0.0000 | mg/L | 0.006 | 0.0000 | mg/L | 0.67 % |

**Mean Data**

**ID:** TMD 2358.04 x10 **Seq. No.:** 75 **A/S Pos:** 63

**Sample Qty** g **Prep. Vol.:** **Dilution:** : **Date:** 2004/06/07 15:46:47

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,896,323.7 | 1.01 | 0.005 | mg/L | | | mg/L | 0.45 % |
| Y 324.227 | 1,144,992.0 | 1.03 | 0.004 | mg/L | | | mg/L | 0.43 % |
| Sc 361.383 | 3,458,707.4 | 1.02 | 0.005 | mg/L | | | mg/L | 0.53 % |
| Sc 357.253 | 2,317,348.8 | 1.05 | 0.005 | mg/L | | | mg/L | 0.51 % |
| Ag 328.068 | -247.2 | -0.0010 | 0.00014 | mg/L | -0.0010 | 0.00014 | mg/L | 13.63 % |
| As 188.979 | -2.5 | -0.0076 | 0.00476 | mg/L | -0.0076 | 0.00476 | mg/L | 62.40 % |
| Ba 493.408 | 975,337.9 | 0.166 | 0.0006 | mg/L | 0.166 | 0.0006 | mg/L | 0.38 % |
| Be 313.107 | -299.1 | -0.0001 | 0.00001 | mg/L | -0.0001 | 0.00001 | mg/L | 7.65 % |
| Cd 214.440 | 24.4 | 0.0006 | 0.00006 | mg/L | 0.0006 | 0.00006 | mg/L | 10.10 % |
| Pb 220.353 | -7.1 | -0.0016 | 0.00147 | mg/L | -0.0016 | 0.00147 | mg/L | 89.45 % |
| Sb 206.836 | -4.2 | -0.0076 | 0.00189 | mg/L | -0.0076 | 0.00189 | mg/L | 24.82 % |
| Se 196.026 | -22.4 | -0.0779 | 0.00878 | mg/L | -0.0779 | 0.00878 | mg/L | 11.28 % |
| Tl 190.801 | 0.1 | 0.0003 | 0.00355 | mg/L | 0.0003 | 0.00355 | mg/L | 1,177.25 % |
| Zn 213.857 | 4,789.2 | 0.155 | 0.0012 | mg/L | 0.155 | 0.0012 | mg/L | 0.76 % |
| Cr 267.716 | -2.4 | 0.0000 | 0.00005 | mg/L | 0.0000 | 0.00005 | mg/L | 235.33 % |
| Cu 327.393 | -262.9 | -0.0015 | 0.00012 | mg/L | -0.0015 | 0.00012 | mg/L | 8.17 % |
| Ni 227.022 | 38.6 | 0.006 | 0.0004 | mg/L | 0.006 | 0.0004 | mg/L | 6.25 % |

**Mean Data**

**ID:** TMS 2358.04 x10 **Seq. No.:** 76 **A/S Pos:** 64

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 15:52:01

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,849,144.5 | 0.993 | 0.0008 | mg/L | | | mg/L | 0.08 % |
| Y 324.227 | 1,124,480.0 | 1.01 | 0.001 | mg/L | | | mg/L | 0.10 % |
| Sc 361.383 | 3,384,076.5 | 0.999 | 0.0017 | mg/L | | | mg/L | 0.17 % |
| Sc 357.253 | 2,280,177.1 | 1.03 | 0.002 | mg/L | | | mg/L | 0.17 % |
| Ag 328.068 | 23,975.5 | 0.0984 | 0.00024 | mg/L | 0.0984 | 0.00024 | mg/L | 0.24 % |
| As 188.979 | 138.6 | 0.420 | 0.0092 | mg/L | 0.420 | 0.0092 | mg/L | 2.20 % |
| Ba 493.408 | 3,061,062.2 | 0.521 | 0.0021 | mg/L | 0.521 | 0.0021 | mg/L | 0.40 % |
| Be 313.107 | 1,488,553.4 | 0.425 | 0.0019 | mg/L | 0.425 | 0.0019 | mg/L | 0.44 % |
| Cd 214.440 | 16,786.4 | 0.403 | 0.0016 | mg/L | 0.403 | 0.0016 | mg/L | 0.39 % |
| Pb 220.353 | 1,689.3 | 0.392 | 0.0009 | mg/L | 0.392 | 0.0009 | mg/L | 0.23 % |
| Sb 206.836 | 107.4 | 0.195 | 0.0018 | mg/L | 0.195 | 0.0018 | mg/L | 0.95 % |
| Se 196.026 | 85.1 | 0.295 | 0.0090 | mg/L | 0.295 | 0.0090 | mg/L | 3.04 % |
| Tl 190.801 | 85.8 | 0.398 | 0.0160 | mg/L | 0.398 | 0.0160 | mg/L | 4.02 % |
| Zn 213.857 | 18,874.3 | 0.609 | 0.0031 | mg/L | 0.609 | 0.0031 | mg/L | 0.50 % |
| Cr 267.716 | 44,981.3 | 0.402 | 0.0013 | mg/L | 0.402 | 0.0013 | mg/L | 0.34 % |
| Cu 327.393 | 78,292.9 | 0.440 | 0.0020 | mg/L | 0.440 | 0.0020 | mg/L | 0.46 % |
| Ni 227.022 | 2,372.6 | 0.398 | 0.0006 | mg/L | 0.398 | 0.0006 | mg/L | 0.15 % |

**Mean Data**

**ID:** soil 6/0[illegible] **Seq. No.:** 77 **A/S Pos:** 65

**Sample Qty** g **Prep. Vol.:** **Dilution:** **:** **Date:** 2004/06/07 15:56:38

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 3,082,134.6 | 1.07 | 0.010 | mg/L | | | mg/L | 0.95 % |
| Y 324.227 | 1,202,099.1 | 1.08 | 0.011 | mg/L | | | mg/L | 0.99 % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 3,648,823.3 | 1.08 | 0.009 | mg/L | | | mg/L | 0.87 % |
| Sc 357.253 | 2,411,906.0 | 1.09 | 0.010 | mg/L | | | mg/L | 0.87 % |
| Ag 328.068 | -249.4 | -0.0010 | 0.00007 | mg/L | -0.0010 | 0.00007 | mg/L | 6.76 % |
| As 188.979 | 0.4 | 0.0012 | 0.00287 | mg/L | 0.0012 | 0.00287 | mg/L | 241.50 % |
| Ba 493.408 | 1,599.4 | 0.0003 | 0.00001 | mg/L | 0.0003 | 0.00001 | mg/L | 4.43 % |
| Be 313.107 | 17.7 | 0.0000 | 0.00002 | mg/L | 0.0000 | 0.00002 | mg/L | 307.54 % |
| Cd 214.440 | -8.5 | -0.0002 | 0.00009 | mg/L | -0.0002 | 0.00009 | mg/L | 44.03 % |
| Pb 220.353 | -9.1 | -0.0021 | 0.00192 | mg/L | -0.0021 | 0.00192 | mg/L | 90.87 % |
| Sb 206.836 | -0.2 | -0.0004 | 0.00277 | mg/L | -0.0004 | 0.00277 | mg/L | 758.62 % |
| Se 196.026 | 1.6 | 0.0056 | 0.00960 | mg/L | 0.0056 | 0.00960 | mg/L | 170.61 % |
| Tl 190.801 | -0.2 | -0.0007 | 0.00914 | mg/L | -0.0007 | 0.00914 | mg/L | 1,307.78 % |
| Zn 213.857 | 169.3 | 0.0055 | 0.00013 | mg/L | 0.0055 | 0.00013 | mg/L | 2.45 % |
| Cr 267.716 | 188.8 | 0.0017 | 0.00005 | mg/L | 0.0017 | 0.00005 | mg/L | 2.76 % |
| Cu 327.393 | 540.2 | 0.0030 | 0.00036 | mg/L | 0.0030 | 0.00036 | mg/L | 11.90 % |
| Ni 227.022 | 5.0 | 0.001 | 0.0007 | mg/L | 0.001 | 0.0007 | mg/L | 76.96 % |

**Mean Data**

**ID:** 2358.03 x1000 **Seq. No.:** 78 **A/S Pos:** 66

**Sample Qty** g **Prep. Vol.:** **Dilution:** : **Date:** 2004/06/07 16:01:22

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 3,022,741.5 | 1.05 | 0.005 | mg/L | | | mg/L | 0.45 % |
| Y 324.227 | 1,184,750.3 | 1.06 | 0.005 | mg/L | | | mg/L | 0.44 % |
| Sc 361.383 | 3,580,528.4 | 1.06 | 0.005 | mg/L | | | mg/L | 0.51 % |
| Sc 357.253 | 2,376,953.1 | 1.08 | 0.006 | mg/L | | | mg/L | 0.52 % |
| Ag 328.068 | 4,603.4 | 0.0189 | 0.00006 | mg/L | 0.0189 | 0.00006 | mg/L | 0.31 % |
| As 188.979 | 1.1 | 0.0032 | 0.00524 | mg/L | 0.0032 | 0.00524 | mg/L | 161.24 % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Ba 493.408** | | | | mg/L | | | mg/L | % |
| **Be 313.107** | 442.5 | 0.0001 | 0.00001 | mg/L | 0.0001 | 0.00001 | mg/L | 6.73 % |
| **Cd 214.440** | 2,094.5 | 0.0502 | 0.00022 | mg/L | 0.0502 | 0.00022 | mg/L | 0.43 % |
| **Pb 220.353** | 14,771.2 | 3.43 | 0.013 | mg/L | 3.43 | 0.013 | mg/L | 0.38 % |
| **Sb 206.836** | 29.2 | 0.0530 | 0.00511 | mg/L | 0.0530 | 0.00511 | mg/L | 9.63 % |
| **Se 196.026** | -23.2 | -0.0805 | 0.00434 | mg/L | -0.0805 | 0.00434 | mg/L | 5.39 % |
| **Tl 190.801** | -0.3 | -0.0012 | 0.00287 | mg/L | -0.0012 | 0.00287 | mg/L | 238.73 % |
| **Zn 213.857** | 91,793.5 | 2.96 | 0.009 | mg/L | 2.96 | 0.009 | mg/L | 0.29 % |
| **Cr 267.716** | 63,798.2 | 0.570 | 0.0018 | mg/L | 0.570 | 0.0018 | mg/L | 0.32 % |
| **Cu 327.393** | 113,096.2 | 0.636 | 0.0035 | mg/L | 0.636 | 0.0035 | mg/L | 0.55 % |
| **Ni 227.022** | 431.8 | 0.072 | 0.0004 | mg/L | 0.072 | 0.0004 | mg/L | 0.51 % |

**Mean Data**

**ID:** 2358.03 x500 **Seq. No.:** 79 **A/S Pos:** 67

**Sample Qty** g **Prep. Vol.:** **Dilution:** : **Date:** 2004/06/07 16:06:12

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| **Y 371.029** | 3,003,691.4 | 1.05 | 0.002 | mg/L | | | mg/L | 0.16 % |
| **Y 324.227** | 1,177,873.2 | 1.06 | 0.002 | mg/L | | | mg/L | 0.19 % |
| **Sc 361.383** | 3,560,750.4 | 1.05 | 0.003 | mg/L | | | mg/L | 0.25 % |
| **Sc 357.253** | 2,368,267.3 | 1.07 | 0.003 | mg/L | | | mg/L | 0.27 % |
| **Ag 328.068** | 9,067.6 | 0.0372 | 0.00006 | mg/L | 0.0372 | 0.00006 | mg/L | 0.15 % |
| **As 188.979** | 7.3 | 0.0222 | 0.00393 | mg/L | 0.0222 | 0.00393 | mg/L | 17.69 % |
| **Ba 493.408** | | | | mg/L | | | mg/L | % |
| **Be 313.107** | 973.6 | 0.0003 | 0.00001 | mg/L | 0.0003 | 0.00001 | mg/L | 4.29 % |
| **Cd 214.440** | 4,050.6 | 0.0971 | 0.00020 | mg/L | 0.0971 | 0.00020 | mg/L | 0.20 % |
| **Pb 220.353** | 28,204.9 | 6.54 | 0.011 | mg/L | 6.54 | 0.011 | mg/L | 0.17 % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sb 206.836 | 60.1 | 0.109 | 0.0033 | mg/L | 0.109 | 0.0033 | mg/L | 3.03 % |
| Se 196.026 | -47.5 | -0.165 | 0.0059 | mg/L | -0.165 | 0.0059 | mg/L | 3.59 % |
| Tl 190.801 | 1.2 | 0.0056 | 0.01222 | mg/L | 0.0056 | 0.01222 | mg/L | 219.72 % |
| Zn 213.857 | 174,182.2 | 5.62 | 0.010 | mg/L | 5.62 | 0.010 | mg/L | 0.19 % |
| Cr 267.716 | 122,349.4 | 1.09 | 0.002 | mg/L | 1.09 | 0.002 | mg/L | 0.20 % |
| Cu 327.393 | 221,833.0 | 1.25 | 0.002 | mg/L | 1.25 | 0.002 | mg/L | 0.14 % |
| Ni 227.022 | 829.8 | 0.139 | 0.0022 | mg/L | 0.139 | 0.0022 | mg/L | 1.55 % |

**Mean Data**

**ID:** ICCV(1) **Seq. No.:** 84 **A/S Pos:** 3

**Sample Qty** g **Prep. Vol.:** **Dilution:** : **Date:** 2004/06/07 16:31:50

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 3,063,787.1 | 1.07 | 0.004 | mg/L | | | | 0.40 % |
| Y 324.227 | 1,196,504.7 | 1.07 | 0.004 | mg/L | | | | 0.37 % |
| Sc 361.383 | 3,596,622.5 | 1.06 | 0.001 | mg/L | | | | 0.13 % |
| Sc 357.253 | 2,396,349.2 | 1.09 | 0.005 | mg/L | | | | 0.42 % |
| Ag 328.068 | 23,109.4 | 0.0949 | 0.00034 | mg/L | 0.0949 | | | 0.36 % |
| As 188.979 | 158.1 | 0.479 | 0.0024 | mg/L | 0.479 | | | 0.50 % |
| Ba 493.408 | 2,605,355.0 | 0.443 | 0.0017 | mg/L | 0.443 | | | 0.39 % |
| Be 313.107 | 1,663,507.2 | 0.475 | 0.0015 | mg/L | 0.475 | | | 0.31 % |
| Cd 214.440 | 19,450.1 | 0.466 | 0.0020 | mg/L | 0.466 | | | 0.42 % |
| Pb 220.353 | 2,011.1 | 0.466 | 0.0017 | mg/L | 0.466 | | | 0.37 % |
| Sb 206.836 | 267.2 | 0.484 | 0.0026 | mg/L | 0.484 | | | 0.53 % |
| Se 196.026 | 141.1 | 0.490 | 0.0046 | mg/L | 0.490 | | | 0.93 % |
| Tl 190.801 | 98.1 | 0.455 | 0.0049 | mg/L | 0.455 | | | 1.08 % |
| Zn 213.857 | 14,687.1 | 0.474 | 0.0016 | mg/L | 0.474 | | | 0.34 % |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cr 267.716 | 53,025.9 | 0.474 | 0.0009 | mg/L | 0.474 | | 0.18 % |
| Cu 327.393 | 88,177.5 | 0.496 | 0.0001 | mg/L | 0.496 | | 0.02 % |
| Ni 227.022 | 2,847.1 | 0.477 | 0.0029 | mg/L | 0.477 | | 0.60 % |

Mean Data

ID: CCB Seq. No.: 86 A/S Pos: 7

Sample Qty g Prep. Vol.: Dilution: : Date: 2004/06/07 16:41:14

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 3,039,701.7 | 1.06 | 0.005 | mg/L | | | mg/L | 0.47 % |
| Y 324.227 | 1,189,958.6 | 1.07 | 0.005 | mg/L | | | mg/L | 0.42 % |
| Sc 361.383 | 3,572,370.8 | 1.05 | 0.005 | mg/L | | | mg/L | 0.45 % |
| Sc 357.253 | 2,371,034.9 | 1.08 | 0.004 | mg/L | | | mg/L | 0.40 % |
| Ag 328.068 | -298.9 | -0.0012 | 0.00012 | mg/L | -0.0012 | 0.00012 | mg/L | 10.14 % |
| As 188.979 | -0.8 | -0.0026 | 0.00056 | mg/L | -0.0026 | 0.00056 | mg/L | 21.72 % |
| Ba 493.408 | -215.3 | 0.0000 | 0.00001 | mg/L | 0.0000 | 0.00001 | mg/L | 16.03 % |
| Be 313.107 | -99.8 | 0.0000 | 0.00001 | mg/L | 0.0000 | 0.00001 | mg/L | 24.06 % |
| Cd 214.440 | -19.4 | -0.0005 | 0.00010 | mg/L | -0.0005 | 0.00010 | mg/L | 22.03 % |
| Pb 220.353 | -16.3 | -0.0038 | 0.00036 | mg/L | -0.0038 | 0.00036 | mg/L | 9.52 % |
| Sb 206.836 | -2.1 | -0.0039 | 0.00208 | mg/L | -0.0039 | 0.00208 | mg/L | 53.64 % |
| Se 196.026 | -0.1 | -0.0004 | 0.00217 | mg/L | -0.0004 | 0.00217 | mg/L | 620.45 % |
| Tl 190.801 | -0.7 | -0.0034 | 0.00881 | mg/L | -0.0034 | 0.00881 | mg/L | 261.62 % |
| Zn 213.857 | -20.1 | -0.0006 | 0.00009 | mg/L | -0.0006 | 0.00009 | mg/L | 13.65 % |
| Cr 267.716 | 19.2 | 0.0002 | 0.00004 | mg/L | 0.0002 | 0.00004 | mg/L | 20.98 % |
| Cu 327.393 | 103.7 | 0.0006 | 0.00012 | mg/L | 0.0006 | 0.00012 | mg/L | 20.41 % |
| Ni 227.022 | -2.2 | 0.000 | 0.0006 | mg/L | 0.000 | 0.0006 | mg/L | 180.04 % |

Mean Data

ID: ICS (B) Seq. No.: 93 A/S Pos: 11

Sample Qty g Prep. Vol.: Dilution: : Date: 2004/06/07 17:16:16

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 3,002,965.3 | 1.05 | 0.001 | mg/L | | | | 0.07 % |
| Y 324.227 | 1,174,570.1 | 1.05 | 0.001 | mg/L | | | | 0.07 % |
| Sc 361.383 | 3,502,620.0 | 1.03 | 0.003 | mg/L | | | | 0.28 % |
| Sc 357.253 | 2,338,748.7 | 1.06 | 0.003 | mg/L | | | | 0.24 % |
| Ag 328.068 | 235,780.8 | 0.968 | 0.0016 | mg/L | 0.968 | | | 0.16 % |
| As 188.979 | -0.1 | -0.0003 | 0.00551 | mg/L | -0.0003 | | | 1,849.87 % |
| Ba 493.408 | 2,591,776.7 | 0.441 | 0.0003 | mg/L | 0.441 | | | 0.07 % |
| Be 313.107 | 1,673,203.9 | 0.478 | 0.0007 | mg/L | 0.478 | | | 0.15 % |
| Cd 214.440 | 39,253.1 | 0.941 | 0.0013 | mg/L | 0.941 | | | 0.14 % |
| Pb 220.353 | 4,098.6 | 0.950 | 0.0025 | mg/L | 0.950 | | | 0.26 % |
| Sb 206.836 | -2.2 | -0.0040 | 0.00137 | mg/L | -0.0040 | | | 34.66 % |
| Se 196.026 | -0.3 | -0.0009 | 0.00431 | mg/L | -0.0009 | | | 457.16 % |
| Tl 190.801 | -1.2 | -0.0058 | 0.00383 | mg/L | -0.0058 | | | 66.62 % |
| Zn 213.857 | 30,047.8 | 0.969 | 0.0014 | mg/L | 0.969 | | | 0.15 % |
| Cr 267.716 | 52,749.8 | 0.472 | 0.0006 | mg/L | 0.472 | | | 0.13 % |
| Cu 327.393 | 87,381.6 | 0.492 | 0.0027 | mg/L | 0.492 | | | 0.55 % |
| Ni 227.022 | 5,591.6 | 0.937 | 0.0025 | mg/L | 0.937 | | | 0.27 % |

Mean Data

ID: ICS (AB) Seq. No.: 94 A/S Pos: 12

Sample Qty g Prep. Vol.: Dilution: : Date: 2004/06/07 17:22:02

| Analyte | Corr. Intensity | Conc (Calib) | Std. Dev. | Calib Units | Conc (Sample) | Std. Dev. | Sample Units | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 371.029 | 2,542,373.6 | 0.887 | 0.0138 | mg/L | | | | 1.56 % |
| Y 324.227 | 1,012,781.5 | 0.908 | 0.0135 | mg/L | | | | 1.48 % |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Sc 361.383** | 3,089,500.7 | 0.912 | 0.0160 | mg/L | | 1.75 % |
| **Sc 357.253** | 2,074,445.5 | 0.941 | 0.0173 | mg/L | | 1.84 % |
| **Ag 328.068** | 257,224.5 | 1.06 | 0.001 | mg/L | 1.06 | 0.11 % |
| **As 188.979** | -19.6 | -0.0593 | 0.01263 | mg/L | -0.0593 | 21.29 % |
| **Ba 493.408** | 2,495,810.6 | 0.425 | 0.0005 | mg/L | 0.425 | 0.11 % |
| **Be 313.107** | 1,706,932.6 | 0.487 | 0.0040 | mg/L | 0.487 | 0.83 % |
| **Cd 214.440** | 37,718.3 | 0.904 | 0.0126 | mg/L | 0.904 | 1.39 % |
| **Pb 220.353** | 3,725.4 | 0.864 | 0.0159 | mg/L | 0.864 | 1.84 % |
| **Sb 206.836** | -14.5 | -0.0264 | 0.00395 | mg/L | -0.0264 | 14.98 % |
| **Se 196.026** | -176.2 | -0.612 | 0.0093 | mg/L | -0.612 | 1.51 % |
| **Tl 190.801** | 9.5 | 0.0440 | 0.00911 | mg/L | 0.0440 | 20.68 % |
| **Zn 213.857** | 33,194.3 | 1.07 | 0.010 | mg/L | 1.07 | 0.93 % |
| **Cr 267.716** | 51,353.7 | 0.459 | 0.0047 | mg/L | 0.459 | 1.02 % |
| **Cu 327.393** | 94,466.6 | 0.531 | 0.0027 | mg/L | 0.531 | 0.51 % |
| **Ni 227.022** | 4,641.7 | 0.778 | 0.0088 | mg/L | 0.778 | 1.13 % |

METALS INSTRUMENT PRINTOUTS FOR EPA METHODS
7740/200.9(SELENIUM)
FOR ECOTEST SAMPLE Nos. 242358.03-.04

# EPA 7740

06/04/04

6-4-04 5700 MD

Element File: SELINEAR.GEL
Element: Se
Date: 40/60/10
Time: 10:33
Data Storage File:
ID/Weight File: MDL.A60
Technique: HGA
Calibration Type: Linear
Remark 1: Cup 1 = 10ug/L Se; cup 2 = 50 ug/L Se; cup 3 = 20 ug/L Se
Remark 2: (CVS); cup 4 = matrix modifier(Pd&Mg(No3)2); cup 5 = blank,
Remark 3: diluent; cup 6 = QC sample.

---

ID: blank  Seq. No.: 00001  A/S Pos.: 5  Date: 40/60/10

uL dispensed: 36 from 5
Replicate 1  Time: 10:35
Peak Area (A-s): 0.001  Peak Height (A): 0.008
Background Pk Area (A-s): -0.004  Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.001

---

ID: Blank  Seq. No.: 00002  A/S Pos.: 5  Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 5
Replicate 1  Time: 10:41
Peak Area (A-s): 0.002  Peak Height (A): 0.009
Background Pk Area (A-s): 0.007  Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.002

Auto-zero performed.

---

ID: Standard 1  Seq. No.: 00003  A/S Pos.: 1  Date: 40/60/10

uL dispensed: 26 from 5, 6 from 4, 4 from 1
Replicate 1  Time: 10:44
Peak Area (A-s): 0.002  Peak Height (A): 0.009
Background Pk Area (A-s): 0.012  Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.000

Standard abs. & conc. values are not in the same order.

---

ID: Standard 2  Seq. No.: 00004  A/S Pos.: 1  Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 1
Replicate 1  Time: 10:47
Peak Area (A-s): 0.001  Peak Height (A): 0.008
Background Pk Area (A-s): 0.009  Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.001



Standard abs. & conc. values are not in the same order.

---

ID: Standard 3  Seq. No.: 00005  A/S Pos.: 2  Date: 40/60/10

uL dispensed: 22 from 5, 6 from 4, 8 from 2

Peak Area (A-s): 0.081 Peak Height (A): 0.092
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.079

Standard number 3 applied. [20.0]
Correlation coefficient: 1.00000 Slope: 0.0039

ID: Standard 4 Seq. No.: 00006 A/S Pos.: 2 Date: 40/60/10

uL dispensed: 18 from 5, 6 from 4, 12 from 2
Replicate 1 Time: 10:53
Peak Area (A-s): 0.116 Peak Height (A): 0.142
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L ): 28.8

Standard number 4 applied. [30.0]
Correlation coefficient: 0.99548 Slope: 0.0038

ID: Standard 5 Seq. No.: 00007 A/S Pos.: 2 Date: 40/60/10

uL dispensed: 14 from 5, 6 from 4, 16 from 2

ID: Seq. No.: 00008 A/S Pos.: -- Date: 40/60/10

Replicate 1 Time: 10:56
Peak Area (A-s): 0.004 Peak Height (A): 0.006
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L ): 0.3

ID: Blank Seq. No.: 00009 A/S Pos.: 5 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 5
Replicate 1 Time: 10:59
Peak Area (A-s): 0.004 Peak Height (A): 0.008
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L ): 0.3

Auto-zero performed.

ID: Standard 1 Seq. No.: 00010 A/S Pos.: 1 Date: 40/60/10

uL dispensed: 26 from 5, 6 from 4, 4 from 1
Replicate 1 Time: 11:02
Peak Area (A-s): 0.011 Peak Height (A): 0.014
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.010



Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L ): 1.9

Standard number 1 applied. [2.0]
Correlation coefficient: 1.00000 Slope: 0.0037

ID: Standard 2 Seq. No.: 00011 A/S Pos.: 1 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 1
Replicate 1 Time: 11:05

Peak Area (A-s): 0.041 Peak Height (A): 0.051
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L ): 10.2

Standard number 2 applied. [10.0]
Correlation coefficient: 0.99999 Slope: 0.0037

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ID: Standard 3 Seq. No.: 00012 A/S Pos.: 2 Date: 40/60/10

uL dispensed: 22 from 5, 6 from 4, 8 from 2
Replicate 1 Time: 11:08
Peak Area (A-s): 0.084 Peak Height (A): 0.091
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L ): 21.4

Standard number 3 applied. [20.0]
Correlation coefficient: 0.99881 Slope: 0.0040

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ID: Standard 4 Seq. No.: 00013 A/S Pos.: 2 Date: 40/60/10

uL dispensed: 18 from 5, 6 from 4, 12 from 2
Replicate 1 Time: 11:11
Peak Area (A-s): 0.121 Peak Height (A): 0.133
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.117
Concentration (ug/L ): 29.5

Standard number 4 applied. [30.0]
Correlation coefficient: 0.99948 Slope: 0.0039

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ID: Standard 5 Seq. No.: 00014 A/S Pos.: 2 Date: 40/60/10

uL dispensed: 14 from 5, 6 from 4, 16 from 2
Replicate 1 Time: 11:14
Peak Area (A-s): 0.154 Peak Height (A): 0.180
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.150
Concentration (ug/L ): 38.3

Standard number 5 applied. [40.0]
Correlation coefficient: 0.99898 Slope: 0.0038
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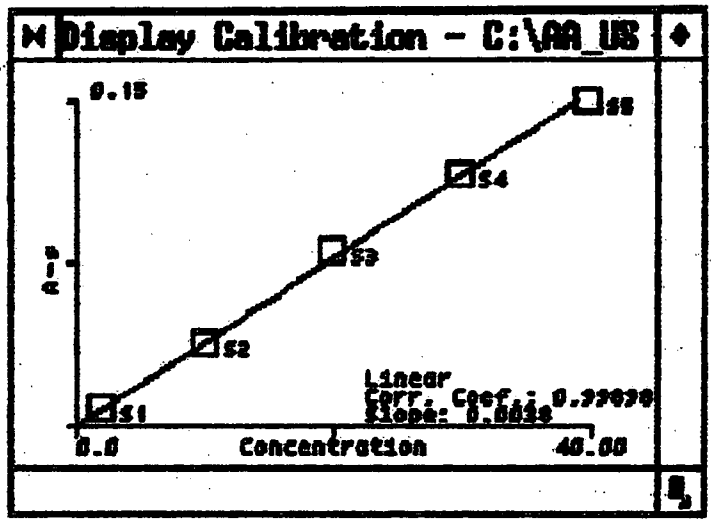
Display Calibration - C:\AA_US
0.15
S1
S2
S3
S4
S5
Linear
Corr. Coef.: 0.99898
Slope: 0.0038
0.0
Concentration
40.00

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ID: Seq. No.: 00015 A/S Pos.: -- Date: 40/60/10

Replicate 1 Time: 11:19
Peak Area (A-s): 0.004 Peak Height (A): 0.009
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L ): 0.2

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ID: Sample Blank Seq. No.: 00016 A/S Pos.: 5 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 5
Replicate 1 Time: 11:24
Peak Area (A-s): 0.006 Peak Height (A): 0.009
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L ): 0.7

Auto-zero performed.

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ID: blank Seq. No.: 00017 A/S Pos.: 5 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 5
Replicate 1 Time: 11:27
Peak Area (A-s): 0.004 Peak Height (A): 0.008
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L ): -0.7

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ID: blank Seq. No.: 00018 A/S Pos.: 5 Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 5
Replicate 1 Time: 11:30
Peak Area (A-s): 0.042 Peak Height (A): 0.051
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L ): 9.2

Recovery is 99.5%

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ID: 20ug/L Seq. No.: 00019 A/S Pos.: 3 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 3
**305**
Replicate 1 Time: 11:36
Peak Area (A-s): 0.079 Peak Height (A): 0.095
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L ): 19.0
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ID: qc SCP1 16ppb    Seq. No.: 00020    A/S Pos.: 6    Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 6
Replicate 1    Time: 11:39

Peak Area (A-s): 0.068    Peak Height (A): 0.079
Background Pk Area (A-s): 0.027    Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L ): 16.1

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ID: soil blank 6-3    Seq. No.: 00021    A/S Pos.: 28    Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 28
Replicate 1    Time: 11:46
Peak Area (A-s): 0.022    Peak Height (A): 0.031
Background Pk Area (A-s): 0.019    Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L ): 4.0

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ID: soil blank 6-3    Seq. No.: 00022    A/S Pos.: 28    Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 28
Replicate 1    Time: 11:50
Peak Area (A-s): 0.044    Peak Height (A): 0.065
Background Pk Area (A-s): 0.020    Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L ): 9.8

Recovery is 57.9%

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ID: 2358.03x200    Seq. No.: 00023    A/S Pos.: 29    Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 29
Replicate 1    Time: 11:53
Peak Area (A-s): 0.074    Peak Height (A): 0.099
Background Pk Area (A-s): 0.075    Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L ): 17.6

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ID: soil blank 6-3    Seq. No.: 00024    A/S Pos.: 28    Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 28
Replicate 1    Time: 12:01
Peak Area (A-s): 0.008    Peak Height (A): 0.010
Background Pk Area (A-s): 0.009    Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L ): 0.3



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ID: soil blank 6-3    Seq. No.: 00025    A/S Pos.: 28    Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 28
Replicate 1    Time: 12:04
Peak Area (A-s): 0.043    Peak Height (A): 0.054
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Background Pk Area (A-s): 0.017          Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L ):          9.4

Recovery is 91.4%

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ID: 2358.03x200          Seq. No.: 00026          A/S Pos.: 29          Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 29
Replicate 1                                    Time: 12:07
Peak Area (A-s): 0.073                         Peak Height (A): 0.093
Background Pk Area (A-s): 0.073                Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L ):          17.4

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ID: 2358.03x200          Seq. No.: 00027          A/S Pos.: 29          Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 29
Replicate 1                                    Time: 12:10
Peak Area (A-s): 0.096                         Peak Height (A): 0.125
Background Pk Area (A-s): 0.085                Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L ):          23.4

Recovery is 59.2%

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ID: 2366.01x500          Seq. No.: 00028          A/S Pos.: 30          Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 30
Replicate 1                                    Time: 12:13
Peak Area (A-s): 0.006                         Peak Height (A): 0.009
Background Pk Area (A-s): 0.029                Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L ):          -0.2

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ID: 2366.01x500          Seq. No.: 00029          A/S Pos.: 30          Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 30
Replicate 1                                    Time: 12:16
Peak Area (A-s): 0.041                         Peak Height (A): 0.063
Background Pk Area (A-s): 0.041                Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L ):          9.0

Recovery is 92.6%

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ID: 2366.01MDx500          Seq. No.: 00030          A/S Pos.: 31          Date: 40/60/10

307

uL dispensed: 10 from 5, 6 from 4, 20 from 31
Replicate 1                                    Time: 12:20
Peak Area (A-s): 0.003                         Peak Height (A): 0.009
Background Pk Area (A-s): 0.028                Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.003
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ID: 2366.01MDx500 Seq. No.: 00031 A/S Pos.: 31 Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 31

Replicate 1 Time: 12:23
Peak Area (A-s): 0.044 Peak Height (A): 0.059
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L ): 9.8

Recovery is 106.1%

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ID: 2366.01MSx500 Seq. No.: 00032 A/S Pos.: 32 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 32

Replicate 1 Time: 12:26
Peak Area (A-s): 0.075 Peak Height (A): 0.108
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L ): 17.9

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ID: 2366.01MSx500 Seq. No.: 00033 A/S Pos.: 32 Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 32
Replicate 1 Time: 12:29
Peak Area (A-s): 0.109 Peak Height (A): 0.165
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.103
Concentration (ug/L ): 26.8

Recovery is 89.4%

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ID: 2358.03x500 Seq. No.: 00034 A/S Pos.: 33 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 33
Replicate 1 Time: 12:33
Peak Area (A-s): 0.039 Peak Height (A): 0.050
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L ): 8.5

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ID: 2358.03x500 Seq. No.: 00035 A/S Pos.: 33 Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 33
Replicate 1 Time: 12:37
Peak Area (A-s): 0.069 Peak Height (A): 0.100
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.308
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L ): 16.3

Recovery is 77.5%

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ID: 2358.03x1000 Seq. No.: 00036 A/S Pos.: 34 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 34
Replicate 1 Time: 13:15
Peak Area (A-s): 0.019 Peak Height (A): 0.030
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.015

Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L ): 3.3

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ID: 2358.03x1000 Seq. No.: 00037 A/S Pos.: 34 Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 34
Replicate 1 Time: 13:18
Peak Area (A-s): 0.054 Peak Height (A): 0.077
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L ): 12.5

Recovery is 91.5%

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ID: Seq. No.: 00038 A/S Pos.: -- Date: 40/60/10

Replicate 1 Time: 13:21
Peak Area (A-s): 0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L ): -0.5

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ID: 2358.03x500 Seq. No.: 00039 A/S Pos.: 33 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 33
Replicate 1 Time: 13:24
Peak Area (A-s): 0.036 Peak Height (A): 0.051
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L ): 7.8

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ID: 2358.03x500 Seq. No.: 00040 A/S Pos.: 33 Date: 40/60/10

uL dispensed: 6 from 4, 10 from 3, 20 from 33
Replicate 1 Time: 13:27
Peak Area (A-s): 0.072 Peak Height (A): 0.099
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.066
Concentration (ug/L ): 17.2

Recovery is 93.9%

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ID: Dp2358.03x500s Seq. No.: 00041 A/S Pos.: 33 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 33
Replicate 1 Time: 13:34
Peak Area (A-s): 0.040 Peak Height (A): 0.052
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.021
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Concentration (ug/L ): 8.8

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Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L ): 4.7

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Peak Area (A-s): 0.021 Peak Height (A): 0.030
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L ): 3.9

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Replicate 1 Time: 14:33
Peak Area (A-s): 0.022 Peak Height (A): 0.030
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.015

Concentration (ug/L ): 4.0

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uL dispensed: 10 from 5, 6 from 4, 20 from 24

Replicate 1 Time: 14:58

Peak Area (A-s): 0.026 Peak Height (A): 0.032

Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.015

Blank Corrected Pk Area (A-s): 0.020

Concentration (ug/L ): 5.2

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ID: MDLSOIL5ppb -5 Seq. No.: 00066 A/S Pos.: 25 Date: 40/60/10

uL dispensed: 10 from 5, 6 from 4, 20 from 25

POWER OUTAGE !
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METALS INSTRUMENT PRINTOUTS FOR EPA METHODS
7470A / 245.1(MERCURY)
FOR ECOTEST SAMPLE Nos. 242358.03-.04

# EPA 7470A

06/04/04

**Sample Information File C:\AAUSER\SAMPINFO\050102.SIF**

Description : 060404
Batch ID : 060404
Volume Units : L
Weight Units : mg
Analyst : MZ
Sample Volume : 0.50

| AS Loc | Sample ID | Sample Weight | Sample Units | User Dilution | Remarks |
|---|---|---|---|---|---|
| 0 | RINSE | | | | |
| 1 | CAL. BLK. | | | | |
| 4 | 3.0 | | | | |
| 5 | 5.0 | | | | |
| 7 | QC 4.0 | | | | |
| 8 | 0.25 mdl | | | | |
| 9 | TCLP BLK | | | | |
| 10 | TM 2358.00x4 | | | | |
| 11 | TMD 2358.00x4 | | | | |
| 12 | TMS 2358.00x4 | | | | 1.5mls 0.05ppm^ 25mls |
| 13 | 2392.01x4 | | | | |
| 14 | 2358.03x40 | | | | |
| 15 | 2392.02x40 | | | | |
| 16 | 2358.03x400 | | | | 2mls^20mls |
| 17 | 2392.02x400 | | | | 2mls^20mls |
| 18 | 2392.02x800 | | | | 10mls^20mls |

317

Element: Hg Seq. No.: 1 AS Loc.: 0 Date: 06/04/2004
Sample ID: RINSE

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.0005 | 0.0022 | 0.0005 | 10:30:13 | No |
| 2 | | | 0.0004 | 0.0023 | 0.0004 | 10:30:45 | No |
| 3 | | | 0.0005 | 0.0024 | 0.0005 | 10:31:17 | No |
| Mean: | | | 0.0005 | | | | |
| SD : | | | 0.0000 | | | | |
| %RSD: | | | 7.7266 | | | | |

Element: Hg Seq. No.: 2 AS Loc.: 5 Date: 06/04/2004
Sample ID: 5.0

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.0824 | 0.3694 | 0.0824 | 10:32:59 | No |
| 2 | | | 0.0831 | 0.3705 | 0.0831 | 10:33:31 | No |
| 3 | | | 0.0832 | 0.3705 | 0.0832 | 10:34:04 | No |
| Mean: | | | 0.0829 | | | | |
| SD : | | | 0.0004 | | | | |
| %RSD: | | | 0.4900 | | | | |

Method Name: Mercury
Method Description: Mercury
Element: Hg

Date: 06/04/2004
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: 050102.SIF Results Data Set Name: 060404

Element: Hg Seq. No.: 3 AS Loc.: 1 Date: 06/04/2004
Sample ID: Calib Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.0034 | 0.0159 | 0.0034 | 10:45:38 | No |

Method Name: Mercury
Method Description: Mercury
Element: Hg

Date: 06/04/2004
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: 050102.SIF Results Data Set Name: 060404

Element: Hg Seq. No.: 4 AS Loc.: 1 Date: 06/04/2004
Sample ID: Calib Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.0027 | 0.0129 | 0.0027 | 10:48:22 | No |
| 2 | | | 0.0027 | 0.0132 | 0.0027 | 10:48:54 | No |
| 3 | | | 0.0026 | 0.0120 | 0.0026 | 10:49:26 | No |
| Mean: | | | 0.0027 | | | | |

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SD : 0.0001
%RSD: 2.1171
Auto-zero performed.

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Element: Hg Seq. No.: 5 AS Loc.: 2 Date: 06/04/2004
Sample ID: 0.5

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.0078 | 0.0476 | 0.0105 | 10:50:58 | No |
| 2 | | | 0.0079 | 0.0478 | 0.0105 | 10:51:30 | No |
| 3 | | | 0.0077 | 0.0470 | 0.0104 | 10:52:02 | No |
| Mean: | | | 0.0078 | | | | |
| SD : | | | 0.0001 | | | | |
| %RSD: | | | 1.1104 | | | | |

[Hg] Standard number 1 applied. [0.500]
Correlation Coefficient: 1.00000 Slope: 0.01558

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Element: Hg Seq. No.: 6 AS Loc.: 3 Date: 06/04/2004
Sample ID: 1.0

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.0160 | 0.0883 | 0.0187 | 10:53:35 | No |
| 2 | | | 0.0159 | 0.0856 | 0.0186 | 10:54:07 | No |
| 3 | | | 0.0158 | 0.0841 | 0.0185 | 10:54:39 | No |
| Mean: | | | 0.0159 | | | | |
| SD : | | | 0.0001 | | | | |
| %RSD: | | | 0.6424 | | | | |

[Hg] Standard number 2 applied. [1.000]
Correlation Coefficient: 0.99966 Slope: 0.01585

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Element: Hg Seq. No.: 7 AS Loc.: 4 Date: 06/04/2004
Sample ID: 3.0

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.0485 | 0.2298 | 0.0512 | 10:56:14 | No |
| 2 | | | 0.0482 | 0.2265 | 0.0509 | 10:56:46 | No |
| 3 | | | 0.0482 | 0.2291 | 0.0509 | 10:57:18 | No |
| Mean: | | | 0.0483 | | | | |
| SD : | | | 0.0002 | | | | |
| %RSD: | | | 0.3860 | | | | |

[Hg] Standard number 3 applied. [3.000]
Correlation Coefficient: 0.99995 Slope: 0.01607

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Element: Hg Seq. No.: 8 AS Loc.: 5 Date: 06/04/2004
Sample ID: 5.0

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.0777 | 0.3634 | 0.0804 | 10:58:53 | No |
| 2 | | | 0.0784 | 0.3637 | 0.0811 | 10:59:25 | No |
| 3 | | | 0.0779 | 0.3615 | 0.0805 | 10:59:57 | No |
| Mean: | | | 0.0780 | | | | |
| SD : | | | 0.0004 | | | | |
| %RSD: | | | 0.4927 | | | | |

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99973 Slope: 0.01574

Element: Hg  Seq. No.: 9  AS Loc.: 6  Date: 06/04/2004
Sample ID: 8.0

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | | 0.1201 | 0.5544 | 0.1228 | 11:01:34 | No |
| 2 | | | 0.1208 | 0.5580 | 0.1235 | 11:02:06 | No |
| 3 | | | 0.1188 | 0.5506 | 0.1215 | 11:02:38 | No |
| Mean: | | | 0.1199 | | | | |
| SD : | | | 0.0010 | | | | |
| %RSD: | | | 0.8278 | | | | |

[Hg] Standard number 5 applied. [8.000]
Correlation Coefficient: 0.99919  Slope: 0.01526

Calibration data for Hg

| Standard ID | Mean Signal (Pk Height) | Entered Concentration (µg/L) | Calculated Concentration (µg/L) | Standard Deviation | %RSD |
|---|---|---|---|---|---|
| Calib Blank | 0.0027 | --- | ---- | ---- | ---- |
| 0.5 | 0.0078 | 0.500 | 0.510 | 0.0001 | 1.1 |
| 1.0 | 0.0159 | 1.000 | 1.042 | 0.0001 | 0.6 |
| 3.0 | 0.0483 | 3.000 | 3.165 | 0.0002 | 0.4 |
| 5.0 | 0.0780 | 5.000 | 5.109 | 0.0004 | 0.5 |
| 8.0 | 0.1199 | 8.000 | 7.857 | 0.0010 | 0.8 |

Correlation Coefficient: 0.99919  Slope: 0.01526  ----

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Element: Hg Seq. No.: 10 AS Loc.: 1 Date: 06/04/2004
Sample ID: Reagent Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.006 | 0.006 | 0.0001 | 0.0140 | 0.0028 | 11:10:24 | No |
| 2 | 0.006 | 0.006 | 0.0001 | 0.0128 | 0.0028 | 11:10:56 | No |
| 3 | 0.000 | 0.000 | 0.0000 | 0.0124 | 0.0027 | 11:11:28 | No |
| Mean: | 0.004 | 0.004 | 0.0001 | | | | |
| SD : | 0.0032 | 0.0032 | 0.0000 | | | | |
| %RSD: | 78.1 | 78.1 | 78.1252 | | | | |

Reagent Blank Performed

Element: Hg Seq. No.: 11 AS Loc.: 7 Date: 06/04/2004
Sample ID: QC

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 3.875 | 3.875 | 0.0591 | 0.2814 | 0.0618 | 11:13:02 | No |
| 2 | 3.851 | 3.851 | 0.0588 | 0.2782 | 0.0615 | 11:13:34 | No |
| 3 | 3.861 | 3.861 | 0.0589 | 0.2776 | 0.0616 | 11:14:06 | No |
| Mean: | 3.862 | 3.862 | 0.0590 | | | | |
| SD : | 0.0119 | 0.0119 | 0.0002 | | | | |
| %RSD: | 0.3 | 0.3 | 0.3075 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 12 AS Loc.: 8 Date: 06/04/2004
Sample ID: 0.25 DL Std

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.254 | 0.254 | 0.0039 | 0.0303 | 0.0066 | 11:15:45 | No |
| 2 | 0.250 | 0.250 | 0.0038 | 0.0305 | 0.0065 | 11:16:16 | No |
| 3 | 0.251 | 0.251 | 0.0038 | 0.0302 | 0.0065 | 11:16:48 | No |
| Mean: | 0.252 | 0.252 | 0.0038 | | | | |
| SD : | 0.0023 | 0.0023 | 0.0000 | | | | |
| %RSD: | 0.9 | 0.9 | 0.9239 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 13 AS Loc.: 4 Date: 06/04/2004
Sample ID: CVS

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 3.056 | 3.056 | 0.0466 | 0.2214 | 0.0493 | 11:18:25 | No |
| 2 | 3.040 | 3.040 | 0.0464 | 0.2206 | 0.0491 | 11:18:57 | No |
| 3 | 3.044 | 3.044 | 0.0465 | 0.2203 | 0.0491 | 11:19:29 | No |
| Mean: | 3.047 | 3.047 | 0.0465 | | | | |
| SD : | 0.0087 | 0.0087 | 0.0001 | | | | |
| %RSD: | 0.3 | 0.3 | 0.2840 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 14 AS Loc.: 9 Date: 06/04/2004
Sample ID: TCLP BLK

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.023 | -0.023 | -0.0003 | 0.0124 | 0.0024 | 11:21:00 | No |
| 2 | -0.022 | -0.022 | -0.0003 | 0.0119 | 0.0024 | 11:21:32 | No |
| 3 | -0.022 | -0.022 | -0.0003 | 0.0119 | 0.0024 | 11:22:04 | No |
| Mean: | -0.022 | -0.022 | -0.0003 | | | | |

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| | | | |
|---|---|---|---|
| SD : | 0.0003 | 0.0003 | 0.0000 |
| %RSD: | 1.3 | 1.3 | 1.2812 |

Element: Hg Seq. No.: 15 AS Loc.: 10 Date: 06/04/2004
Sample ID: TM 2358.00x4

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.020 | -0.020 | -0.0003 | 0.0112 | 0.0024 | 11:23:34 | No |
| 2 | -0.018 | -0.018 | -0.0003 | 0.0119 | 0.0025 | 11:24:06 | No |
| 3 | -0.025 | -0.025 | -0.0004 | 0.0116 | 0.0024 | 11:24:39 | No |
| Mean: | -0.021 | -0.021 | -0.0003 | | | | |
| SD : | 0.0033 | 0.0033 | 0.0000 | | | | |
| %RSD: | 15.4 | 15.4 | 15.4490 | | | | |

Element: Hg Seq. No.: 16 AS Loc.: 11 Date: 06/04/2004
Sample ID: TMD 2358.00x4

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.014 | -0.014 | -0.0002 | 0.0120 | 0.0025 | 11:26:10 | No |
| 2 | -0.015 | -0.015 | -0.0002 | 0.0117 | 0.0025 | 11:26:43 | No |
| 3 | -0.004 | -0.004 | -0.0001 | 0.0132 | 0.0027 | 11:27:15 | No |
| Mean: | -0.011 | -0.011 | -0.0002 | | | | |
| SD : | 0.0060 | 0.0060 | 0.0001 | | | | |
| %RSD: | 56.0 | 56.0 | 55.9644 | | | | |

Element: Hg Seq. No.: 17 AS Loc.: 12 Date: 06/04/2004
Sample ID: TMS 2358.00x4

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 2.905 | 2.905 | 0.0443 | 0.2087 | 0.0471 | 11:28:47 | No |
| 2 | 2.881 | 2.881 | 0.0440 | 0.2069 | 0.0467 | 11:29:20 | No |
| 3 | 2.909 | 2.909 | 0.0444 | 0.2095 | 0.0471 | 11:29:52 | No |
| Mean: | 2.898 | 2.898 | 0.0442 | | | | |
| SD : | 0.0149 | 0.0149 | 0.0002 | | | | |
| %RSD: | 0.5 | 0.5 | 0.5154 | | | | |

Element: Hg Seq. No.: 18 AS Loc.: 13 Date: 06/04/2004
Sample ID: 2392.01x4

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.004 | 0.004 | 0.0001 | 0.0131 | 0.0028 | 11:31:25 | No |
| 2 | -0.003 | -0.003 | 0.0000 | 0.0120 | 0.0027 | 11:31:57 | No |
| 3 | 0.007 | 0.007 | 0.0001 | 0.0138 | 0.0029 | 11:32:29 | No |
| Mean: | 0.003 | 0.003 | 0.0000 | | | | |
| SD : | 0.0052 | 0.0052 | 0.0001 | | | | |
| %RSD: | 203.2 | 203.2 | 203.1520 | | | | |

Element: Hg Seq. No.: 19 AS Loc.: 14 Date: 06/04/2004
Sample ID: 2358.03x40

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 35.92 | 35.92 | 0.5482 | 2.8437 | 0.5510 | 11:34:02 | No |
| Sample absorbance is greater than that of the highest standard. | | | | | | | |
| 2 | 35.58 | 35.58 | 0.5431 | 2.8024 | 0.5458 | 11:34:34 | No |

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Sample absorbance is greater than that of the highest standard.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | 36.08 | 36.08 | 0.5508 | 2.8489 | 0.5535 | 11:35:07 | No |

Sample absorbance is greater than that of the highest standard.

| | | | |
|---|---|---|---|
| Mean: | 35.86 | 35.86 | 0.5474 |
| SD : | 0.2569 | 0.2569 | 0.0039 |
| %RSD: | 0.7 | 0.7 | 0.7162 |

Sample absorbance is greater than that of the highest standard.

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Element: Hg Seq. No.: 20 AS Loc.: 15 Date: 06/04/2004
Sample ID: 2392.02x40

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 44.64 | 44.64 | 0.6813 | 3.7607 | 0.6840 | 11:36:41 | No |

Sample absorbance is greater than that of the highest standard.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | 44.57 | 44.57 | 0.6803 | 3.7388 | 0.6831 | 11:37:13 | No |

Sample absorbance is greater than that of the highest standard.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | 44.53 | 44.53 | 0.6796 | 3.7157 | 0.6824 | 11:37:46 | No |

Sample absorbance is greater than that of the highest standard.

| | | | |
|---|---|---|---|
| Mean: | 44.58 | 44.58 | 0.6804 |
| SD : | 0.0549 | 0.0549 | 0.0008 |
| %RSD: | 0.1 | 0.1 | 0.1231 |

Sample absorbance is greater than that of the highest standard.

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Element: Hg Seq. No.: 21 AS Loc.: 1 Date: 06/04/2004
Sample ID: Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.041 | 0.041 | 0.0006 | 0.0156 | 0.0033 | 11:39:19 | No |
| 2 | 0.049 | 0.049 | 0.0007 | 0.0140 | 0.0034 | 11:39:51 | No |
| 3 | 0.032 | 0.032 | 0.0005 | 0.0140 | 0.0032 | 11:40:23 | No |
| Mean: | 0.040 | 0.040 | 0.0006 | | | | |
| SD : | 0.0087 | 0.0087 | 0.0001 | | | | |
| %RSD: | 21.5 | 21.5 | 21.4626 | | | | |

QC value within specified limits.

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Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 06/04/2004
Sample ID: QC

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 3.785 | 3.785 | 0.0578 | 0.2739 | 0.0605 | 11:41:57 | No |
| 2 | 3.828 | 3.828 | 0.0584 | 0.2771 | 0.0611 | 11:42:29 | No |
| 3 | 3.797 | 3.797 | 0.0580 | 0.2738 | 0.0606 | 11:43:01 | No |
| Mean: | 3.804 | 3.804 | 0.0581 | | | | |
| SD : | 0.0222 | 0.0222 | 0.0003 | | | | |
| %RSD: | 0.6 | 0.6 | 0.5842 | | | | |

QC value within specified limits.

---

Element: Hg Seq. No.: 23 AS Loc.: 4 Date: 06/04/2004
Sample ID: CVS

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 2.997 | 2.997 | 0.0457 | 0.2177 | 0.0484 | 11:44:36 | No |
| 2 | 3.035 | 3.035 | 0.0463 | 0.2202 | 0.0490 | 11:45:08 | No |
| 3 | 3.018 | 3.018 | 0.0461 | 0.2190 | 0.0488 | 11:45:40 | No |
| Mean: | 3.017 | 3.017 | 0.0460 | | | | |
| SD : | 0.0194 | 0.0194 | 0.0003 | | | | |

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%RSD: 0.6 0.6 0.6437
QC value within specified limits.

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Element: Hg Seq. No.: 24 AS Loc.: 1 Date: 06/04/2004
Sample ID: Reagent Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.021 | -0.021 | -0.0003 | 0.0110 | 0.0024 | 11:49:14 | No |
| 2 | 0.007 | 0.007 | 0.0001 | 0.0129 | 0.0029 | 11:49:46 | No |
| 3 | 0.005 | 0.005 | 0.0001 | 0.0136 | 0.0028 | 11:50:18 | No |
| Mean: | -0.003 | -0.003 | 0.0000 | | | | |
| SD : | 0.0153 | 0.0153 | 0.0002 | | | | |
| %RSD: | 487.7 | 487.7 | 487.7072 | | | | |

Reagent Blank Performed

Element: Hg Seq. No.: 25 AS Loc.: 7 Date: 06/04/2004
Sample ID: QC

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 3.767 | 3.767 | 0.0575 | 0.2731 | 0.0602 | 11:51:52 | No |
| 2 | 3.763 | 3.763 | 0.0574 | 0.2725 | 0.0601 | 11:52:25 | No |
| 3 | 3.729 | 3.729 | 0.0569 | 0.2719 | 0.0596 | 11:52:57 | No |
| Mean: | 3.753 | 3.753 | 0.0573 | | | | |
| SD : | 0.0205 | 0.0205 | 0.0003 | | | | |
| %RSD: | 0.5 | 0.5 | 0.5465 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 26 AS Loc.: 8 Date: 06/04/2004
Sample ID: 0.25 DL Std

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.238 | 0.238 | 0.0036 | 0.0296 | 0.0063 | 11:54:34 | No |
| 2 | 0.236 | 0.236 | 0.0036 | 0.0286 | 0.0063 | 11:55:06 | No |
| 3 | 0.242 | 0.242 | 0.0037 | 0.0296 | 0.0064 | 11:55:38 | No |
| Mean: | 0.239 | 0.239 | 0.0036 | | | | |
| SD : | 0.0029 | 0.0029 | 0.0000 | | | | |
| %RSD: | 1.2 | 1.2 | 1.2112 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 27 AS Loc.: 4 Date: 06/04/2004
Sample ID: CVS

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 2.975 | 2.975 | 0.0454 | 0.2150 | 0.0481 | 11:57:14 | No |
| 2 | 3.000 | 3.000 | 0.0458 | 0.2173 | 0.0485 | 11:57:47 | No |
| 3 | 3.003 | 3.003 | 0.0458 | 0.2187 | 0.0485 | 11:58:19 | No |
| Mean: | 2.993 | 2.993 | 0.0457 | | | | |
| SD : | 0.0157 | 0.0157 | 0.0002 | | | | |
| %RSD: | 0.5 | 0.5 | 0.5246 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 28 AS Loc.: 16 Date: 06/04/2004
Sample ID: 2358.03x400

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 5.593 | 5.593 | 0.0854 | 0.3892 | 0.0881 | 11:59:54 | No |
| 2 | 5.597 | 5.597 | 0.0854 | 0.3884 | 0.0881 | 12:00:26 | No |
| 3 | 5.538 | 5.538 | 0.0845 | 0.3863 | 0.0872 | 12:00:58 | No |
| Mean: | 5.576 | 5.576 | 0.0851 | | | | |

| | | | |
|---|---|---|---|
| SD : | 0.0329 | 0.0329 | 0.0005 |
| %RSD: | 0.6 | 0.6 | 0.5902 |

Element: Hg Seq. No.: 29 AS Loc.: 17 Date: 06/04/2004
Sample ID: 2392.02x400

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 8.141 | 8.141 | 0.1243 | 0.5639 | 0.1270 | 12:02:34 | No |
| 2 | 8.235 | 8.235 | 0.1257 | 0.5705 | 0.1284 | 12:03:06 | No |
| 3 | 8.165 | 8.165 | 0.1246 | 0.5653 | 0.1273 | 12:03:38 | No |
| Mean: | 8.180 | 8.180 | 0.1249 | | | | |
| SD : | 0.0491 | 0.0491 | 0.0007 | | | | |
| %RSD: | 0.6 | 0.6 | 0.6003 | | | | |

Element: Hg Seq. No.: 30 AS Loc.: 1 Date: 06/04/2004
Sample ID: Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.002 | -0.002 | 0.0000 | 0.0132 | 0.0027 | 12:05:13 | No |
| 2 | 0.003 | 0.003 | 0.0000 | 0.0131 | 0.0027 | 12:05:44 | No |
| 3 | -0.011 | -0.011 | -0.0002 | 0.0105 | 0.0025 | 12:06:16 | No |
| Mean: | -0.003 | -0.003 | 0.0000 | | | | |
| SD : | 0.0074 | 0.0074 | 0.0001 | | | | |
| %RSD: | 230.9 | 230.9 | 230.8748 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 31 AS Loc.: 7 Date: 06/04/2004
Sample ID: QC

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 3.762 | 3.762 | 0.0574 | 0.2719 | 0.0601 | 12:07:51 | No |
| 2 | 3.717 | 3.717 | 0.0567 | 0.2678 | 0.0594 | 12:08:23 | No |
| 3 | 3.725 | 3.725 | 0.0569 | 0.2680 | 0.0595 | 12:08:56 | No |
| Mean: | 3.735 | 3.735 | 0.0570 | | | | |
| SD : | 0.0236 | 0.0236 | 0.0004 | | | | |
| %RSD: | 0.6 | 0.6 | 0.6327 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 32 AS Loc.: 4 Date: 06/04/2004
Sample ID: CVS

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 2.837 | 2.837 | 0.0433 | 0.2072 | 0.0460 | 12:10:31 | No |
| 2 | 2.863 | 2.863 | 0.0437 | 0.2067 | 0.0464 | 12:11:03 | No |
| 3 | 2.867 | 2.867 | 0.0438 | 0.2068 | 0.0464 | 12:11:35 | No |
| Mean: | 2.856 | 2.856 | 0.0436 | | | | |
| SD : | 0.0159 | 0.0159 | 0.0002 | | | | |
| %RSD: | 0.6 | 0.6 | 0.5572 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 33 AS Loc.: 1 Date: 06/04/2004
Sample ID: Reagent Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.025 | -0.025 | -0.0004 | 0.0111 | 0.0023 | 12:14:10 | No |
| 2 | -0.024 | -0.024 | -0.0004 | 0.0113 | 0.0023 | 12:14:42 | No |
| 3 | -0.025 | -0.025 | -0.0004 | 0.0104 | 0.0023 | 12:15:15 | No |
| Mean: | -0.025 | -0.025 | -0.0004 | | | | |
| SD : | 0.0009 | 0.0009 | 0.0000 | | | | |
| %RSD: | 3.6 | 3.6 | 3.6442 | | | | |

Reagent Blank Performed

Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 06/04/2004
Sample ID: QC

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 3.772 | 3.772 | 0.0576 | 0.2691 | 0.0603 | 12:16:48 | No |
| 2 | 3.822 | 3.822 | 0.0583 | 0.2728 | 0.0610 | 12:17:21 | No |
| 3 | 3.825 | 3.825 | 0.0584 | 0.2730 | 0.0611 | 12:17:53 | No |
| Mean: | 3.806 | 3.806 | 0.0581 | | | | |
| SD : | 0.0297 | 0.0297 | 0.0005 | | | | |
| %RSD: | 0.8 | 0.8 | 0.7805 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 35 AS Loc.: 4 Date: 06/04/2004
Sample ID: CVS

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 2.853 | 2.853 | 0.0435 | 0.2075 | 0.0462 | 12:19:28 | No |
| 2 | 2.866 | 2.866 | 0.0437 | 0.2071 | 0.0464 | 12:20:00 | No |
| 3 | 2.876 | 2.876 | 0.0439 | 0.2083 | 0.0466 | 12:20:32 | No |
| Mean: | 2.865 | 2.865 | 0.0437 | | | | |
| SD : | 0.0117 | 0.0117 | 0.0002 | | | | |
| %RSD: | 0.4 | 0.4 | 0.4067 | | | | |

QC value within specified limits.

Element: Hg Seq. No.: 36 AS Loc.: 18 Date: 06/04/2004
Sample ID: 2392.02x800

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 4.093 | 4.093 | 0.0625 | 0.2878 | 0.0648 | 12:22:07 | No |
| 2 | 4.093 | 4.093 | 0.0625 | 0.2852 | 0.0648 | 12:22:39 | No |
| 3 | 4.089 | 4.089 | 0.0624 | 0.2855 | 0.0647 | 12:23:11 | No |
| Mean: | 4.092 | 4.092 | 0.0625 | | | | |
| SD : | 0.0022 | 0.0022 | 0.0000 | | | | |
| %RSD: | | | | | | | |

Element: Hg Seq. No.: 37 AS Loc.: 1 Date: 06/04/2004
Sample ID: Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.018 | -0.018 | -0.0003 | 0.0124 | 0.0024 | 12:24:45 | No |
| 2 | -0.012 | -0.012 | -0.0002 | 0.0126 | 0.0025 | 12:25:17 | No |
| 3 | -0.016 | -0.016 | -0.0002 | 0.0119 | 0.0024 | 12:25:49 | No |
| Mean: | -0.015 | -0.015 | -0.0002 | | | | |
| SD : | 0.0028 | 0.0028 | 0.0000 | | | | |

327

%RSD: 18.5 18.5 18.5491
QC value within specified limits.

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Element: Hg Seq. No.: 38 AS Loc.: 7 Date: 06/04/2004
Sample ID: QC

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 3.840 | 3.840 | 0.0586 | 0.2725 | 0.0613 | 12:27:24 | No |
| 2 | 3.857 | 3.857 | 0.0589 | 0.2750 | 0.0615 | 12:27:56 | No |
| 3 | 3.846 | 3.846 | 0.0587 | 0.2743 | 0.0614 | 12:28:28 | No |
| Mean: | 3.847 | 3.847 | 0.0587 | | | | |
| SD : | 0.0085 | 0.0085 | 0.0001 | | | | |
| %RSD: | 0.2 | 0.2 | 0.2211 | | | | |

QC value within specified limits.

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Element: Hg Seq. No.: 39 AS Loc.: 4 Date: 06/04/2004
Sample ID: CVS

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 2.845 | 2.845 | 0.0434 | 0.2085 | 0.0461 | 12:30:03 | No |
| 2 | 2.859 | 2.859 | 0.0436 | 0.2096 | 0.0463 | 12:30:35 | No |
| 3 | 2.864 | 2.864 | 0.0437 | 0.2093 | 0.0464 | 12:31:08 | No |
| Mean: | 2.856 | 2.856 | 0.0436 | | | | |
| SD : | 0.0098 | 0.0098 | 0.0002 | | | | |
| %RSD: | 0.3 | 0.3 | 0.3444 | | | | |

QC value within specified limits.

GENERAL CHEMISTRY QC DELIVERABLES; (PHENOLS BY EPA METHOD 420.1, CYANIDE BY EPA335.3,FLASHPOINT BY EPA 1010, REACT. CYANIDE BY EPA 335.4,SULFIDE BY EPA 376.2, pH) INCLUDING:CONFORMANCE/NONCONFORMANCE SUMMARIES, METHODOLOGY REVIEW, ANALYTICAL RESULTS SUMMARY, BLANK RESULTS SUMMARY, SPIKED SAMPLE RESULTS SUMMARY, DUPLICATE SAMPLE RESULTS SUMMARY, LABORATORY CONTROL SAMPLE RESULTS SUMMARY, RAW DATA & CALIBRATION CURVES. FOR ECOTEST SAMPLE Nos. 242358.03-.04

## CONFORMANCE / NON-CONFORMANCE SUMMARY

General Chemistry

### QC Package for Sample Batch 242358.03 - .04

< QC criteria were met for the following unless otherwise stated :

* Method Blank
* Duplicate RPD
* Spike % Recoveries
* Reference Sample
* Holding Time (SW846)

## METHODOLOGY REVIEW

General Chemistry

| Target Analyte | Digestion Method | Analysis Method | Ins't Used |
|---|---|---|---|
| Phenol | EPA420.1 | EPA420.1 | Spec 20 |
| Cyanide | EPA335.1 | EPA335.1 | Technicon AA II |
| pH | N/A | EPA150.1 | Fisher Accumet-20 |
| Sulfide | N/A | EPA376.3 | Hach Kit |
| Flashpoint | N/A | EPA1010 | Koehler 16200 |
| ReacCn | EPA335.4 | EPA335.4 | Technicon AA II |
| | | | |

## LABORATORY CHRONICLE

General Chemistry

| Target Analyte | Sample ID | Date Sample Rec'd | Date Ext./ Dist. | Holding Time (days) | Date Analyzed | Holding Time (days) |
|---|---|---|---|---|---|---|
| Phenol | 242358.03 | 06/02/04 | 06/03/04 | 1 | 06/07/04 | 4 |
| Cyanide | 252358.03 | 06/02/04 | 06/04/04 | 2 | 06/07/04 | 3 |
| | | | | | | |

| Target Analyte | Sample ID | Date Sample Rec'd | Date Distilled | Holding Time (days) | Date Analyzed | Holding Time (days) |
|---|---|---|---|---|---|---|
| pH | 242358.04 | 06/02/04 | N/A | N/A | 06/03/04 | 1 |
| Sulfide | 242358.04 | 06/02/04 | N/A | N/A | 06/07/04 | 5 |
| Flashpoint | 242358.04 | 06/02/04 | N/A | N/A | 06/04/04 | 2 |
| ReacCn | 242358.04 | 06/02/04 | 06/04/04 | 3 | 06/07/04 | 3 |
| | | | | | | |

## ANALYTICAL RESULTS SUMMARY

General Chemistry

| Target Analyte | Sample ID | Matrix | Date Rec'd | Date Analyzed | % Moisture | Dilution Factor | MDL |
|---|---|---|---|---|---|---|---|
| Phenol | 242358.03 | soil | 06/02/04 | 06/07/04 | 49 | 2500 | 0.001 |
| Cyanide | 242358.03 | soil | 06/02/04 | 06/07/04 | 49 | 100 | 0.02 |
| pH | 242358.04 | soil | 06/02/04 | 06/03/04 | 72 | 1 | 0.1 |
| Sulfide | 242358.04 | soil | 06/02/04 | 06/07/04 | 72 | 1000 | 0.1 |
| Flashpoint | 242358.04 | soil | 06/02/04 | 06/04/04 | 72 | 1 | 25C |
| ReacCn | 242358.04 | soil | 06/02/04 | 06/07/04 | 72 | 100 | 0.02 |
| | | | | | | | |

## BLANK RESULTS SUMMARY

General Chemistry

| Target Analyte | Matrix | Conc. Units | Calibration Blank Conc. | Method Blank Conc. | MDL |
|---|---|---|---|---|---|
| Phenol | water | ppm | 0.01 | 0.01 | 0.001 |
| Cyanide | water | ppm | <0.02 | <0.02 | 0.02 |
| pH | water | N/A | N/A | N/A | 0.1 |
| Sulfide | water | ppm | <0.1 | <0.1 | 0.1 |
| Flashpoint | water | DegreeC | N/A | N/A | 25C |
| ReacCn | water | ppm | <0.02 | <0.02 | 0.02 |
| | | | | | |

## SPIKED SAMPLE RESULTS SUMMARY

General Chemistry

| Target Analyte | Sample ID | Matrix | Sample Conc. | Spike Conc. | Spiked Sample | Rec. % | QC Limits % Rec. |
|---|---|---|---|---|---|---|---|
| Phenol | 242392.01 | water | 0.001 | 0.04 | 0.038 | 92.5 | 52-149 |
| Cyanide | 242358.03 | soil | 0.015 | 0.200 | 0.220 | 102.5 | 80-112 |
| pH | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Sulfide | 242358.04 | soil | 0.420 | 0.400 | 0.820 | 100.0 | 80-120 |
| Flashpoint | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| ReacCn | 242358.03 | soil | 0.015 | 0.200 | 0.220 | 102.5 | 80-112 |
| | | | | | | | |

## DUPLICATE SAMPLE RESULTS SUMMARY

General Chemistry

| Target Analyte | Sample ID | Matrix | Sample Conc. | Duplicate Sample Conc. | Dif. | QC Limits Dif. |
|---|---|---|---|---|---|---|
| Phenol | 242392.02 | water | 0.0095 | 0.012 | 0.0025 | 0.031 |
| Cyanide | 242348.04 | soil | 0.060 | 0.100 | 0.004 | 0.037 |
| pH | 242372.08 | liquid | 5.53 | 5.56 | 0.03 | 0.23 |
| Sulfide | 242358.04 | soil | 0.400 | 0.420 | 0.020 | 0.20 |
| Flashpoint | N/A | N/A | N/A | N/A | N/A | N/A |
| ReacCn | 242348.04 | soil | 0.060 | 0.100 | 0.004 | 0.037 |
| | | | | | | |

## $NO_2$ 6-3-2004

| Sample | DIL | RT. | Result |
|---|---|---|---|
| Blank | | 100 | |
| 0.02 | | 70 | =0.02 |
| 0.04 | | 50 | =0.04 |
| QC ERA 695 | x20 | 60 | =0.028 x20=0.56 |
| 242334-1 | x1 | NC | <0.002 |
| -2 | x1 | 25 | = 0.014 |
| 242377-1 | x1 | NC | <0.002 |
| -2 | x25 | 61 | =0.028 x25 = 0.7 |
| Dup 242377-2 | x25 | 61 | =0.028 x25 = 0.7 (NP) |
| Spk 0.02 242334-4 | x1 | 54 | = 0.035-0.014 = 0.021 (NP) |
| 242409-1 | x1 | NC | <0.002 |
| -2 | x1 | NC | <0.002 |
| -3 | x1 | NC | <0.002 |

## TCLP & ZHE 6-3-2004

| Sample | WT. | Fluid | Test | Start | End | pH |
|---|---|---|---|---|---|---|
| 242393-1 | 30g | 600ml | Full | 5:00 | 9:00 | <5 |
| 2 | ↓ | ↓ | ↓ | ↓ | ↓ | <5 |
| 3 | | | | | | <5 |
| 4 | | | | | | <5 |
| 5 | | | | | | <5 |
| 242403-1 | | | | | | <5 |
| 2 | | | | | | <5 |
| 242393-1 | 13g | | ZHE | | | |
| -2 | ↓ | | ↓ | | | |
| -3 | | | | | | |
| -4 | | | | | | |
| -5 | | | | | | |
| 242403-1 | | | | | | |
| -2 | ↓ | | ↓ | ↓ | ↓ | |

## Flash Point 6-4-2004

| Sample | FP |
|---|---|
| 242327 | <100 |
| 242358-4 | <100 |
| 242393-1 | <100 |
| -2 | <100 |
| -3 | <100 |
| -4 | <100 |
| -5 | <100 |
| QC | 58°C |

TV-572

## NO3 6-7-2004

| # | Sample | DIL | Area | Result | # | Sample | DIL | Area | Result |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 1.0 | | 1.0 | | 22 | 1.0 | | | |
| 4 | 1.0 | | 1.0 | | 24 | | | | |
| 6 | 1.0 | | >1 | | 26 | | | | |
| 8 | 0.7 | | 0.7 | | 28 | | | | |
| 10 | 0.5 | | 0.5 | | 30 | NG | | | |
| 12 | 0.2 | | 0.2 | | 32 | | | | |
| 14 | 0.1 | | 0.08 | | 34 | machine | | | |
| 16 | 0.05 | | 0.05 | | 36 | down | | | |
| 18 | NO3 0.2 | | 0.2 | | 38 | | | | |
| 20 | QCERA 9911-4 | x50 | 0.31 | TV=1.5:6 1.5 | 40 | | | | |
| 22 | 2343-1 | x10 | <0.05 | 0.5 | 2 | Re-run | | | |
| 24 | -2 | x10 | 0.05 | 0.5 | 4 | all | | | |
| 26 | 2349-1 | x50 | 0.54 | | 6 | | | | |
| 28 | 2 | x20 | <0.05 | Rerun | 8 | | | | |
| 30 | 2350 | x10 | 0.27 | 2.7 | 10 | | | | |
| 32 | 2353 | x10 | 0.16 | 1.6 | 12 | | | | |
| 34 | 2354 | x10 | 0.36 | 3.6 | 14 | | | | |
| 36 | 2355 | x10 | 0.18 | 1.8 | 16 | | | | |
| 38 | 2359-1 | x10 | <0.05 | <0.5 | 18 | | | | |
| 40 | 2364-1 | x10 | Re-run | | 20 | | | | |
| 2 | 1.0 | | 1.0 | TV=1.6 | 22 | | | | |
| 4 | QCERA 9911-4 | x50 | 0.3 | 15 | 24 | | | | |
| 6 | 2364-2 | x10 | 0.07 | 0.7 | 26 | | | | |
| 8 | 2365-1 | x10 | <0.05 | <0.5 | 28 | | | | |
| 10 | -2 | x10 | <0.05 | | 30 | | | | |
| 12 | 2364-1 | x10 | ↓ | Rerun | 32 | | | | |
| 14 | 2349-2 | x10 | | | 34 | | | | |
| 16 | 2372-1 | x10 | | | 36 | | | | |

## S" 6-7-2004

| Sample | DIL | % T. | Result | Comment |
|---|---|---|---|---|
| Blank | | 100 | | |
| S70 0.2 | | 83 | =0.2 | 100% |
| S70 0.8 | | 44 | =0.86 | 108% |
| QCERA 021 x5 | | 64 | =0.48 x5=2.35 | |
| 242358-4 | x20x200 | 69 | =0.4 x4000=1600 | Ave: >1640 |
| DUP 242358-4 | x20x200 | 67 | =0.42 x4000=1680 | |
| 242393-1 | x20 | NC | <0.1 | x20 <2 |
| -2 | x20 | NC | <0.1 | x20 <2 |
| -3 | x20 | NC | <0.1 | x20 <2 |
| -4 | x20 | NC | <0.1 | x20 <2 |
| -5 | x20 | NC | <0.1 | x20 <2 |
| 242424-3 | x20 | NC | <0.1 | x20 <2 |
| SPIKE 0.4 242358-4 | x20x200 | 46 | =0.82-0.42=0.4 | 100% |

## TCLP & ZHE 6-7-2004

| Sample | WT. | Fluid | Test | Start | End | pH |
|---|---|---|---|---|---|---|
| 242424-1 | 15g | 300ml | Metals | 6:10 | 8:00 | <5 |
| -2 | 15g | 300ml | Metals | | | <5 |
| -3 | 40g | 800ml | Full | | | <5 |
| -4 | 15g | 300ml | Metals | | | <5 |
| 242435-1 | Filtered | | Metals & Hg | | | <5 |
| -2 | 20g | 400ml | ↓ | | | <5 |
| 242424-3 | 13g | | ZHE | | | |
| 242425-1 | Filtered | | ↓ | | | |
| 2 | 13g | | | | | |

| DATE | SAMPLE ID | PH | Comment |
|---|---|---|---|
| 05-28-04 | 242298.01 | 6.87 | |
| | .02 | 6.67 | |
| | .03 | 3.69 | |
| | .04 | 4.03 | |
| | .05 | 5.67 | |
| | .06 | 5.57 | |
| | .07 | 5.21 | |
| | .08 | 5.93 | |
| | 242303.01 | 6.99 | |
| | .02 | 7.20 | |
| | .03 | 7.24 | |
| | 242302.00 | 7.45 | |
| | 242307.00 | 7.47 | |
| | 242307.00 Dup | 7.49 | |
| | 242311.01 | 6.70 | EPA 9045C |
| | 242317.01 | 7.11 | Micro Technic |
| | .02 | 6.91 | ↓ |
| | 242316.00 | 7.08 | |
| | 242319.02 | 6.60 | |
| | .03 | 4.51 | |
| | .05 | 5.01 | |
| 06-01-04 | 7.0 | 7.00 | |
| | 4.0 | 4.00 | |
| | 10.0 | 10.00 | |
| | QC P101977 | 6.50 | |
| 06-02-04 | 7.0 | 7.00 | |
| | 4.0 | 4.00 | |
| | 10.0 | 10.00 | |

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| DATE | SAMPLE ID | PH | Comment |
|---|---|---|---|
| 6-2-04 | 242337.01 | 6.0 | |
| | .02 | 6.92 | |
| | 242337.02 Dup | 7.11 | |
| 6-3-04 | 7.0 | 7.00 | |
| | 4.0 | 4.00 | |
| | 10.0 | 10.00 | |
| | QC P101977 | 6.50 | |
| | 242388.00 | 6.64 | EPA 9045C |
| | 242352.01 | 6.20 | |
| | .02 | 6.01 | |
| | .04 | 6.66 | |
| | 242358.04 | 7.25 | |
| | 242359.01 | 6.18 | |
| | 242372.01 | 6.17 | |
| | .02 | 6.01 | |
| | .03 | 5.69 | |
| | .04 | 5.70 | |
| | .05 | 5.69 | |
| | .06 | 6.80 | |
| | .07 | 5.58 | |
| | .08 | ~~5.53~~ | 5.53 |
| | 242372.08 Dup | 5.56 | |
| 6-4-04 | 7.0 | 7.00 | |
| | 4.0 | 4.00 | |
| | 10.0 | 10.00 | |
| | QC P101977 | 6.49 | |
| | 242384.00 | 7.53 | |
| | 242387.01 | 7.48 | |

| DATE | SAMPLE | %T | CURVE | DIL | RESULT |
|---|---|---|---|---|---|
| | BLANK | 100 | 0 | | |
| 5/7/01 | 0.01 std | 87 | 0.01 | | |
| | 0.05 std | 51 | 0.05 | | |
| AMA | QC | 67 | 0.03 | | tv=0.03 |
| | 242327 | 52 | 0.049 | x1 | 0.049 |
| | 319.02 | 96 | <0.001 | x1 | <0.001 |
| | 319.03 | 98 | <0.001 | x1 | <0.001 |
| | 319.05 | 98 | <0.001 | x1 | <0.001 |
| | 392.01 | 95 | 0.001 | x1 | 0.001 |
| | 392.02 | 88 | 0.0095 | x250 | 2.38 |
| he tv 0.01 | 392.03 | 62 | 0.038 | x1 | 0.038 95% |
| | 392.02 | 84 | 0.012 | x250 | 3.00 |
| | 392.03 | 23 | 0.11 | x2500 | 275 |

6-1-04 CN

| Sample | %T | Curve | Auto DIL | Dist DIL | Result | Comment |
|---|---|---|---|---|---|---|
| 0.15 | 66 | | | | | |
| 0.1 | 44 | | | | | |
| 0.05 | 24.5 | | | | | |
| 0.02 | 9 | | | | | |
| BLANK | 0 | <0.02 | | | | |
| 242307 | 1 | <0.02 | x1 | x1 | <0.02 | |
| 242311-1 | 0 | <0.02 | x1 | x100 | <2 | |
| 242319-2 | 0 | <0.02 | x1 | x1 | <0.02 | |
| -3 | 3 | <0.02 | x1 | x1 | <0.02 | |
| -5 | 0 | <0.02 | x1 | x1 | <0.02 | |
| 0.3 | 96 | 0.28 | | | | |
| QCGRA P101502 | 64 | 0.15 | x1 | x2 | 0.3 | TV=0.333 |
| SPIKE 0.2 242307 | 79 | 0.2 | x1 | x1 | 0.2 | (WW) |
| DUP 242307 | 87 | 0.21 | x1 | x1 | 0.21 | (WW) |
| 6-7-04 | | | | | | |
| 0.3 | 100 | | | | | |
| 0.3 | >100 | | | | | |
| BLANK | 0 | | | | | |
| 0.3 | 97 | | | | | |
| 0.3 | 98 | | | | | |
| 0.3 | 100 | | | | | |
| BLANK | 0 | | | | | |
| 0.3 | 100 | | | | | |
| 0.025 | 92 | | | | | |
| 0.02 | 81.5 | | | | | |
| 0.15 | 66.5 | | | | | |
| 0.1 | 42 | | | | | |
| 0.05 | 24 | | | | | |

CN

| # | Sample | %T | Curve | Auto DIL | Dist DIL | Result | Comment |
|---|---|---|---|---|---|---|---|
| 16 | 242358-3 | 7 | 0.45 | x1 | x100 | <2 | |
| 17 | 242358-4 | 26 | 0.06 | x1 | x100 | 6 | Re-run Rea |
| 18 | 242392-1 | 1 | <0.02 | x1 | x1 | <0.02 | |
| 19 | 242392-2 | 10 | 0.02 | x1 | x100 | 2 | |
| 20 | 242393-1 | 0 | <0.02 | x1 | x100 | <2 | |
| 21 | 242393-2 | 0 | <0.02 | x1 | x100 | <2 | |
| 22 | 0.3 | 95.5 | 0.28 | | | 0.28 | |
| 23 | QCGRA P101502 | 64 | 0.145 | x1 | x2 | 0.29 | TV=0.333 |
| 24 | SPIKE 0.2 242358-3 | 86 | 0.22 | x1 | x100 | 0.22 (-0.015) | (SOIL) |
| 25 | 242393-3 | 0 | <0.02 | x1 | x100 | <2 | |
| 26 | 242393-4 | 0 | <0.02 | x1 | x100 | <2 | |
| 27 | 242393-5 | 0 | <0.02 | x1 | x100 | <2 | |
| 28 | 242409-1 | 0 | <0.02 | x1 | x1 | <0.02 | |
| 29 | 242409-2 | 1.5 | <0.02 | x1 | x1 | <0.02 | |
| 30 | 0.3 | 98.5 | 0.29 | | | 0.29 | |
| 31 | DUP SPIKE 0.2 242358-3 | 87 | 0.225 | x1 | x100 | 0.225 (0.215) | |
| 32 | DUP 242358-4 | 4.5 | 0.1 | x1 | 100 | 10 | (SOIL) |
| 33 | 242409-3 | 0 | <0.02 | x1 | x1 | <0.02 | |
| 34 | 242415-1 | 4 | <0.02 | x1 | x1 | <0.02 | |
| 35 | 242415-2 | 3 | <0.02 | x1 | x1 | <0.02 | |
| 36 | 242415-3 | 9 | 0.02 | x1 | x1 | 0.02 | |
| 37 | 242415-4 | 0 | <0.02 | x1 | x1 | <0.02 | |
| 38 | 0.3 | 100 | 0.3 | | | | |
| 39 | 242415-5 | 1 | <0.02 | x1 | x1 | <0.02 | |
| 40 | 242424-3 | 0 | <0.02 | x1 | x100 | <2 | |
| 1 | 242358-3 | .5 | <0.02 | x2 | x100 | <2 | Re-run |
| 2 | DUP 242358-4 | 48 | 0.11 | x1 | x100 | 11 | 11 |
| 3 | 0.3 | 99 | 0.3 | | | | |