

Data File: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A015.d

Date : 04-MAY-2011 17:33

Client ID:

Sample Info: PCP ICV

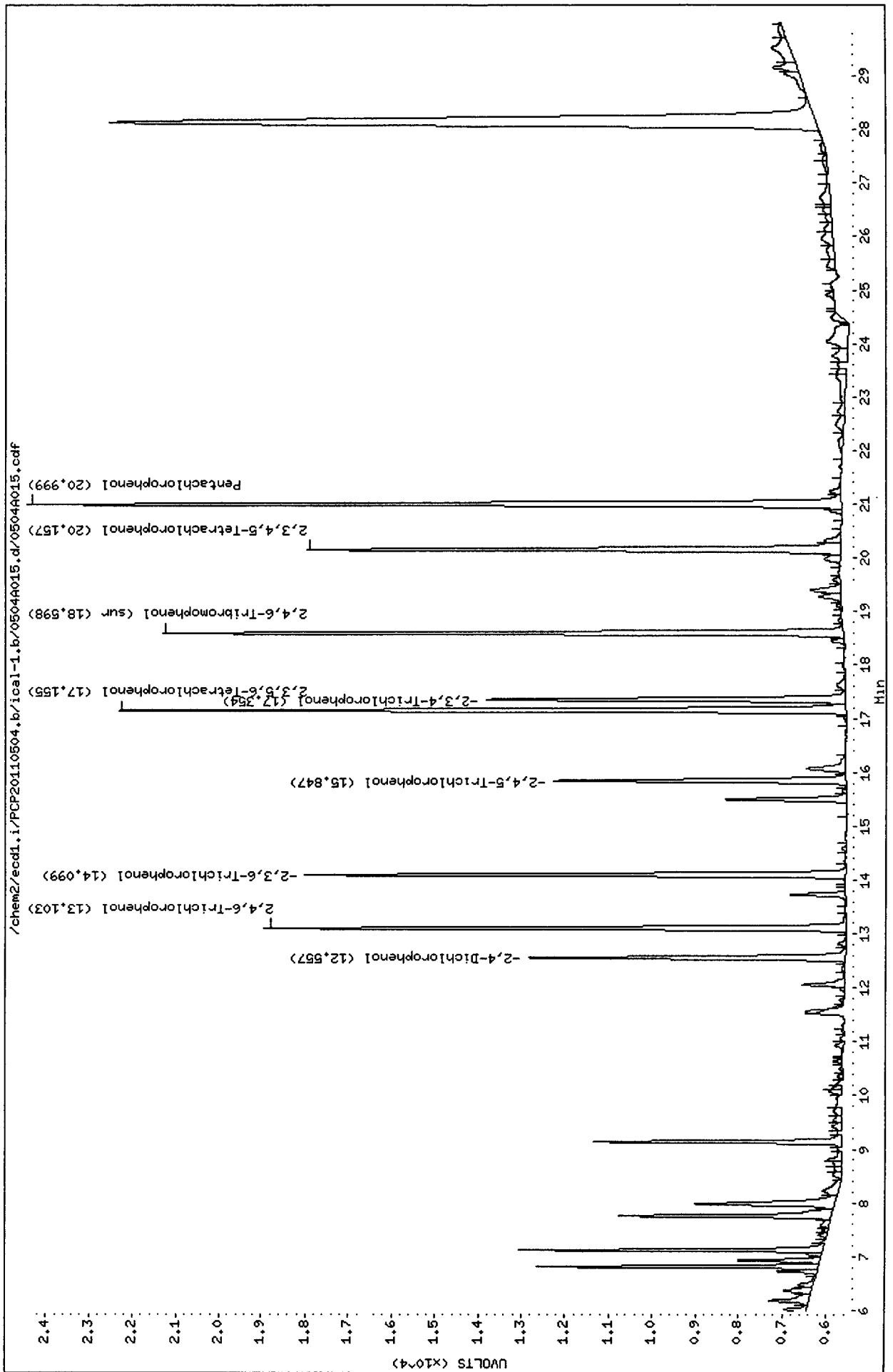
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

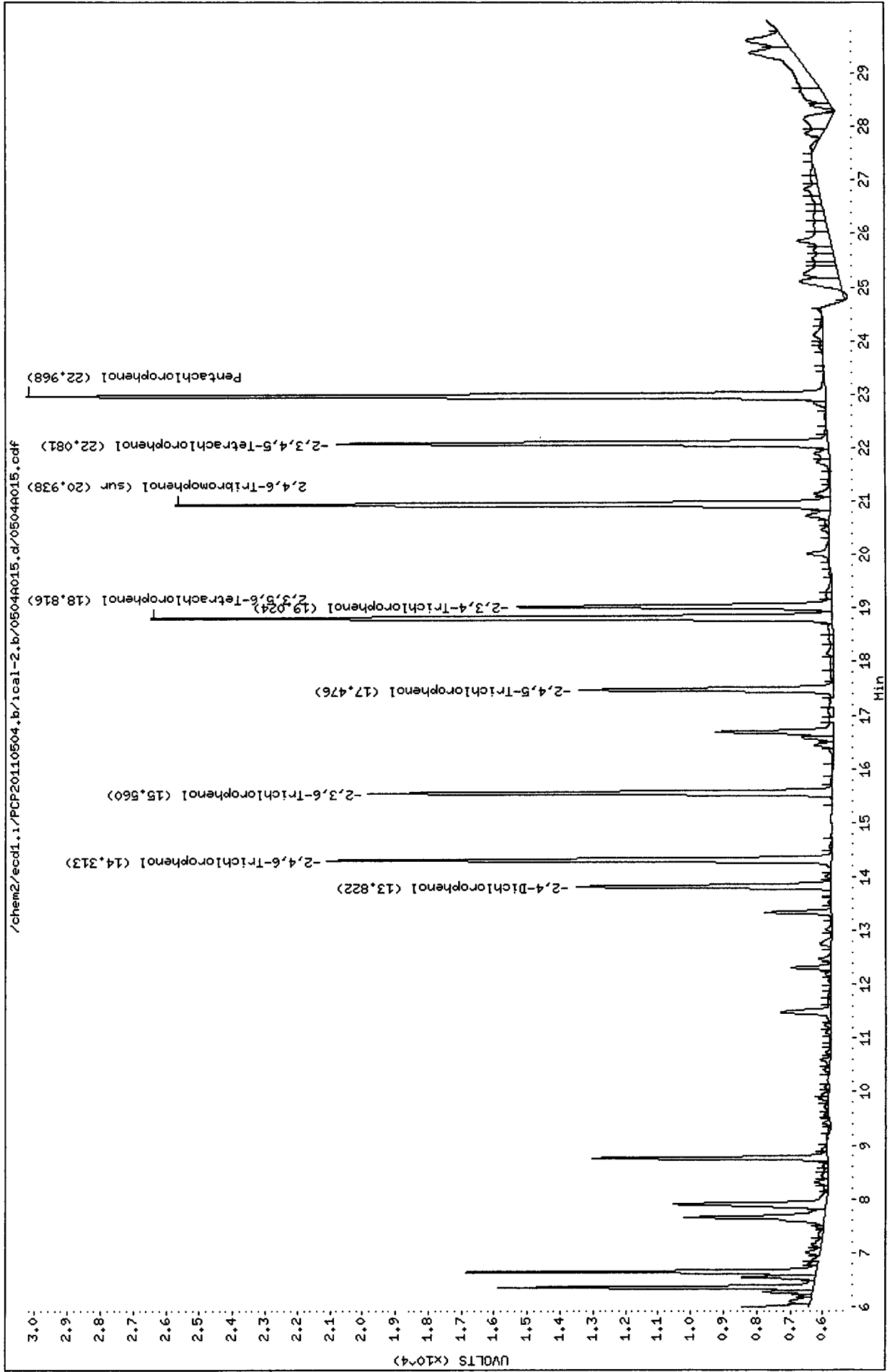
Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504015.d
Date : 04-MAY-2011 17:33
Client ID:
Sample Info: PCP ICV
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



PCP/Chlorophenols Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: SU53, SU73, SU74

GC Analyst Notes / Corrective Action Log

ARI Project ID: SU53 Client ID: Floyd-Snyder

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): 0.25 µg/L RL

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 5/4/2011 Analysis Start: 5/16/2011

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO
ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO
CCal Meets RF & %RSD Criteria? YES / NO Surrogate Recovery In Control? YES / NO
Manual Integrations for ICal? YES / NO Manual Integrations for Samples? YES / NO
Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA
VP Requested

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

① For requested emp's
- No yflags assigned
- Farms batched w/ SU 73 & 74

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/18/2011

Reviewer: [Signature] Date: 5/19/11

GC Analyst Notes / Corrective Action Log

ARI Project ID: SU73 Client ID: Floyd Snider

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) Other

Parameter(s): _____

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
 FID-9 **ECD-1** ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 5/4/2011 Analysis Start: 5/10/2011

Endrin/DDT Breakdown <15%? YES / NO / **NA** Method Blank In Control? **YES** / NO
 ICal Meets RF & %RSD Criteria? **YES** / NO LCS/LCSD Recovery In Control? **YES** / NO
 CCal Meets RF & %RSD Criteria? **YES** / NO Surrogate Recovery In Control? **YES** / NO
 Manual Integrations for ICal? **YES** / NO Manual Integrations for Samples? YES / **NO**
 Internal Standard Meets Criteria? YES / NO / **NA** Special Analysis Criteria Met? **YES** / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- ① For requested compds
- wcy - flags assigned
- Forms batched w/ SU53 & SU74
- LIMS batched w/ SU74 only

Additional Details on Reverse: Yes / No

Analyst: _____ Date: 5/15/2011

Reviewer: _____ Date: 5/18/11

GC Analyst Notes / Corrective Action Log

ARI Project ID: SU74 Client ID: Floyd

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
 427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): _____

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
 FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 5/4/2011 Analysis Start: 5/16/2011

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO ^①
 ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO ^①
 CCal Meets RF & %RSD Criteria? YES / NO ^① Surrogate Recovery In Control? YES / NO
 Manual Integrations for ICal? YES / NO Manual Integrations for Samples? YES / NO
 Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- ① For Requested emp's
- No y flags assigned
- Forms batched w/ su73 & su53
- LIMS batched w/ su73 only

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/18/2011

Reviewer: [Signature] Date: 5/18/11

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 5/16/2011 Analysis: PCP Analyst: AR
 GC Program: Herb.M Column No: 922945/801690 Column Type: 21 STXCLP1/2
 Calibration File: PCP20110504.b Curve Date: 5/14/2011 Injection Vol.: 2µl

| IS/SS | Ical/Ccal | LCS/ICV |
|-------|-----------|---------|
| | 1791-6 | 1820-4 |
| | | |
| | | |
| | | |
| | | |
| | | |

Document All Maintenance Tasks In StarLIMS

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/PCP20110504.b/0516-2.b

| Inject | Date/Time | Filename | DF | LabID | ClientID |
|--------|-------------------|------------|----|--------------------------|----------|
| 1 | 16-MAY-2011 12:46 | 0516A001.d | 1 | RINSE | |
| 2 | 16-MAY-2011 13:06 | 0516A002.d | 1 | SU53C | |
| 3 | 16-MAY-2011 13:43 | 0516A003.d | 1 | RINSE | |
| 4 | 16-MAY-2011 14:03 | 0516A004.d | 1 | RINSE | |
| 5 | 16-MAY-2011 14:23 | 0516A005.d | 1 | PCP | |
| 6 | 16-MAY-2011 14:59 | 0516A006.d | 1 | PCP CCAL - <i>Passes</i> | |
| 7 | 16-MAY-2011 15:36 | 0516A007.d | 1 | SU53MBW1 | |
| 8 | 16-MAY-2011 16:12 | 0516A008.d | 1 | SU53LCSW1 | |
| 9 | 16-MAY-2011 16:48 | 0516A009.d | 1 | SU53QLS | |
| 10 | 16-MAY-2011 17:25 | 0516A010.d | 1 | SU53A | |
| 11 | 16-MAY-2011 18:01 | 0516A011.d | 1 | SU53B | |
| 12 | 16-MAY-2011 18:37 | 0516A012.d | 1 | SU53BMS | |
| 13 | 16-MAY-2011 19:14 | 0516A013.d | 1 | SU53BMSD | |
| 14 | 16-MAY-2011 19:50 | 0516A014.d | 1 | PCP | |
| 15 | 16-MAY-2011 20:27 | 0516A015.d | 1 | PCP CCAL - <i>Passes</i> | |
| 16 | 16-MAY-2011 21:03 | 0516A016.d | 1 | SU53C | |
| 17 | 16-MAY-2011 21:39 | 0516A017.d | 1 | SU53D | |
| 18 | 16-MAY-2011 22:16 | 0516A018.d | 1 | SU53E | |
| 19 | 16-MAY-2011 22:52 | 0516A019.d | 1 | SU53F | |
| 20 | 16-MAY-2011 23:28 | 0516A020.d | 1 | PCP | |
| 21 | 17-MAY-2011 00:04 | 0516A021.d | 1 | PCP CCAL - <i>Passes</i> | |
| 22 | 17-MAY-2011 00:41 | 0516A022.d | 1 | SU73MBW1 | |
| 23 | 17-MAY-2011 01:17 | 0516A023.d | 1 | SU73LCSW1 | |
| 24 | 17-MAY-2011 01:53 | 0516A024.d | 1 | SU73QLS | |
| 25 | 17-MAY-2011 02:29 | 0516A025.d | 1 | SU73A | |
| 26 | 17-MAY-2011 03:06 | 0516A026.d | 1 | SU73B | |
| 27 | 17-MAY-2011 03:42 | 0516A027.d | 1 | SU73BMS | |
| 28 | 17-MAY-2011 04:18 | 0516A028.d | 1 | SU73BMSD | |
| 29 | 17-MAY-2011 04:54 | 0516A029.d | 1 | SU74A | |
| 30 | 17-MAY-2011 05:31 | 0516A030.d | 1 | SU74B | |
| 31 | 17-MAY-2011 06:07 | 0516A031.d | 1 | SU74C | |
| 32 | 17-MAY-2011 06:43 | 0516A032.d | 1 | PCP | |
| 33 | 17-MAY-2011 07:19 | 0516A033.d | 1 | PCP CCAL - <i>Passes</i> | |

AR 5/18/2011

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In StarLIMS

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

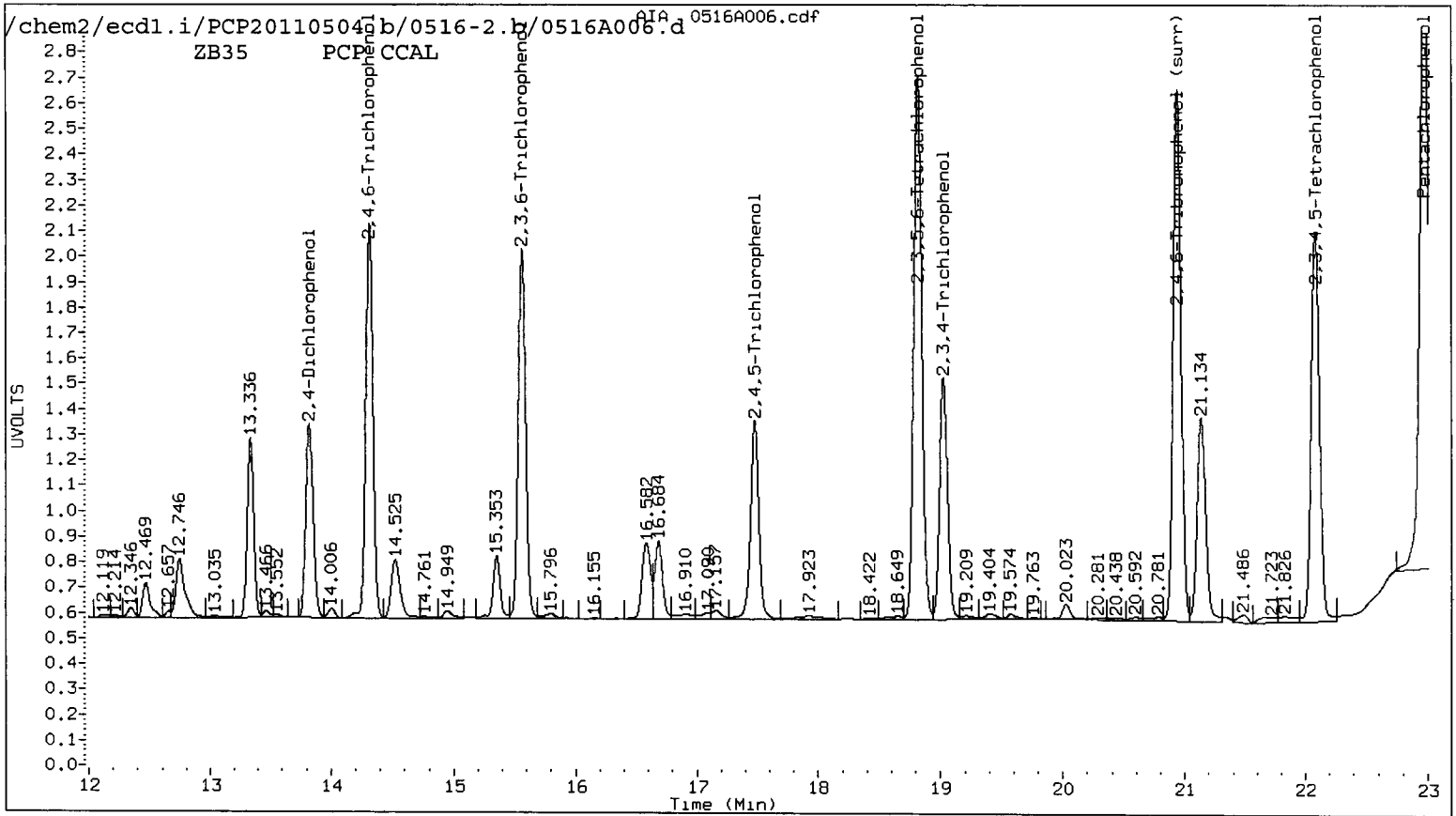
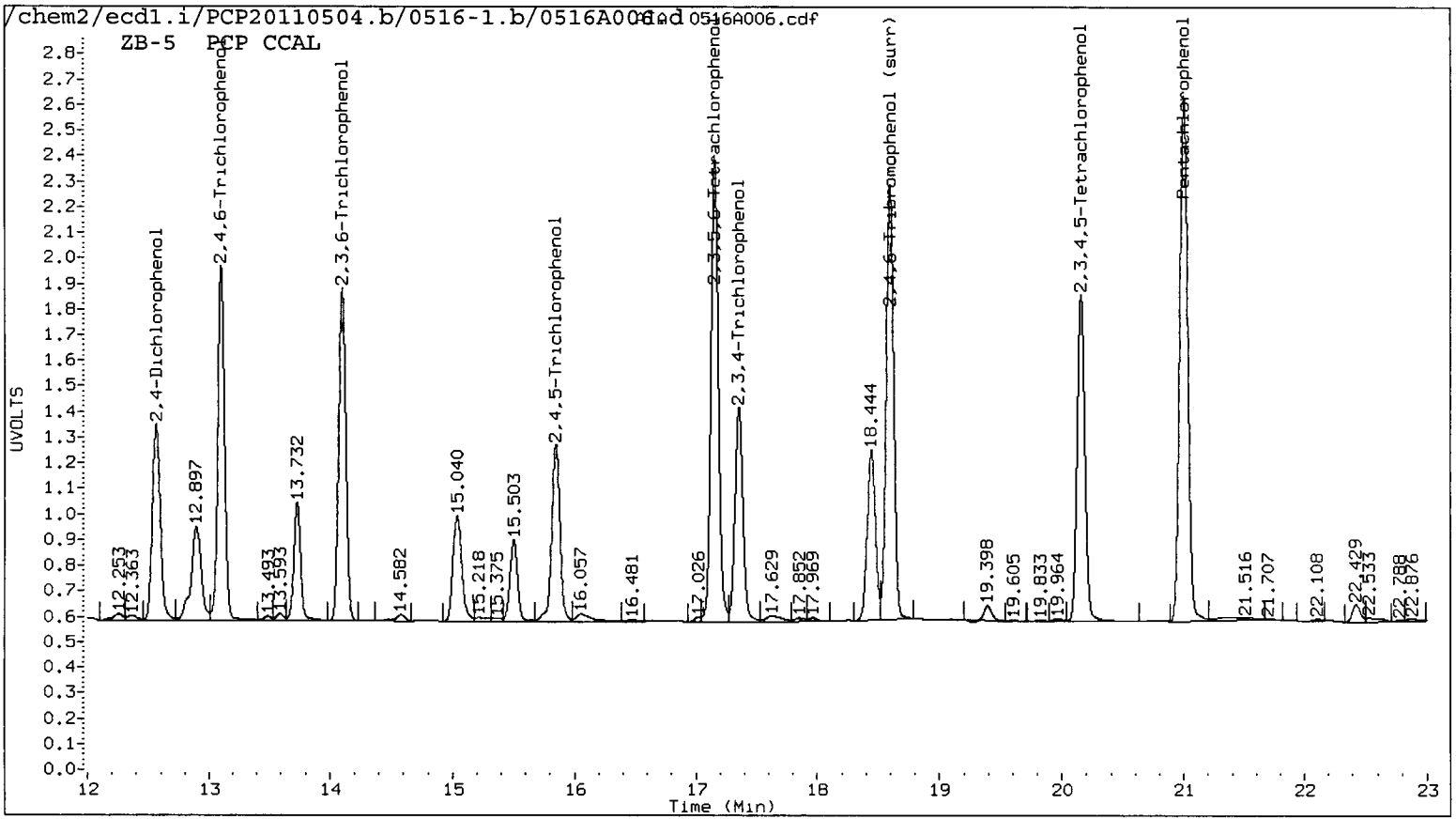
AR 5/18/2011

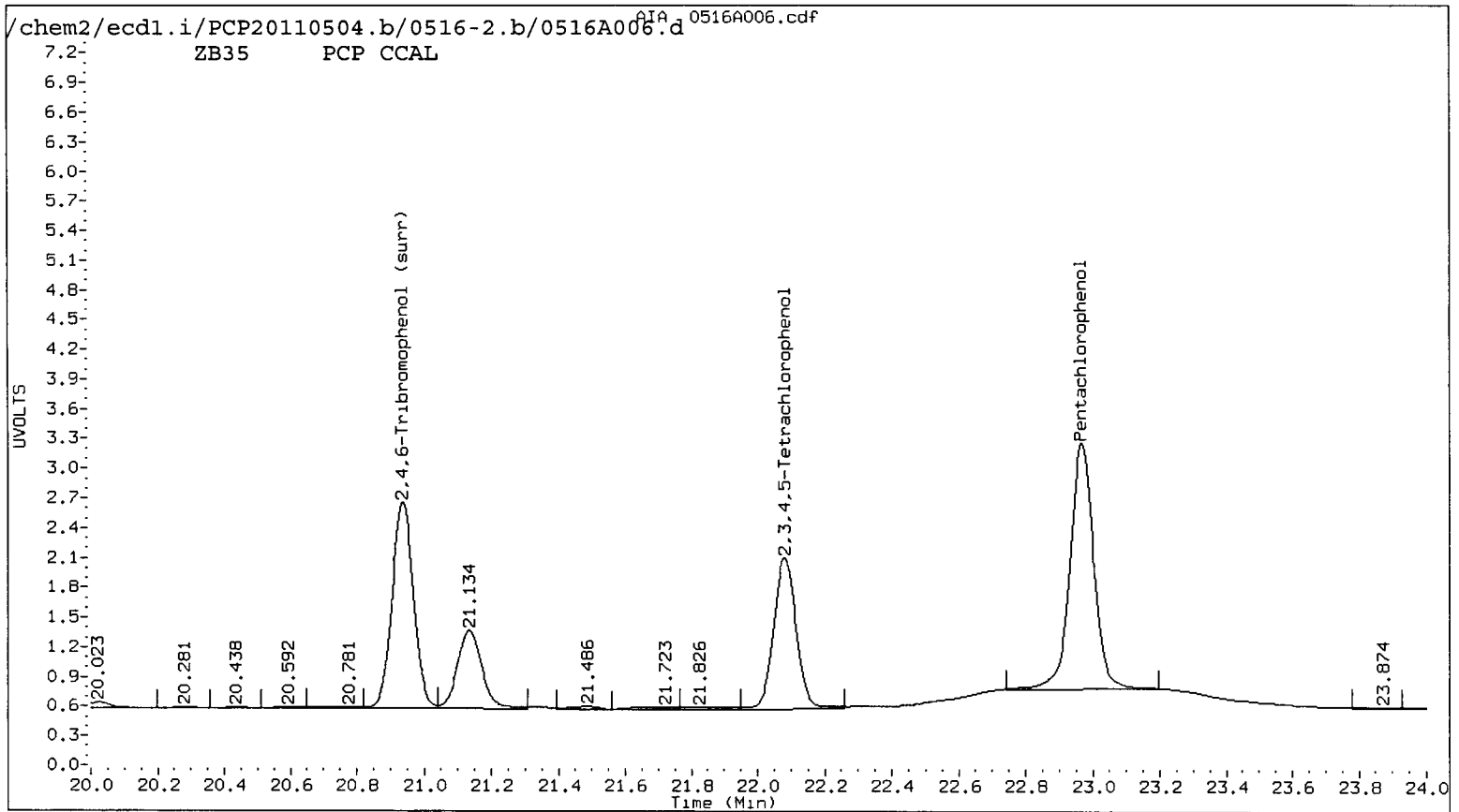
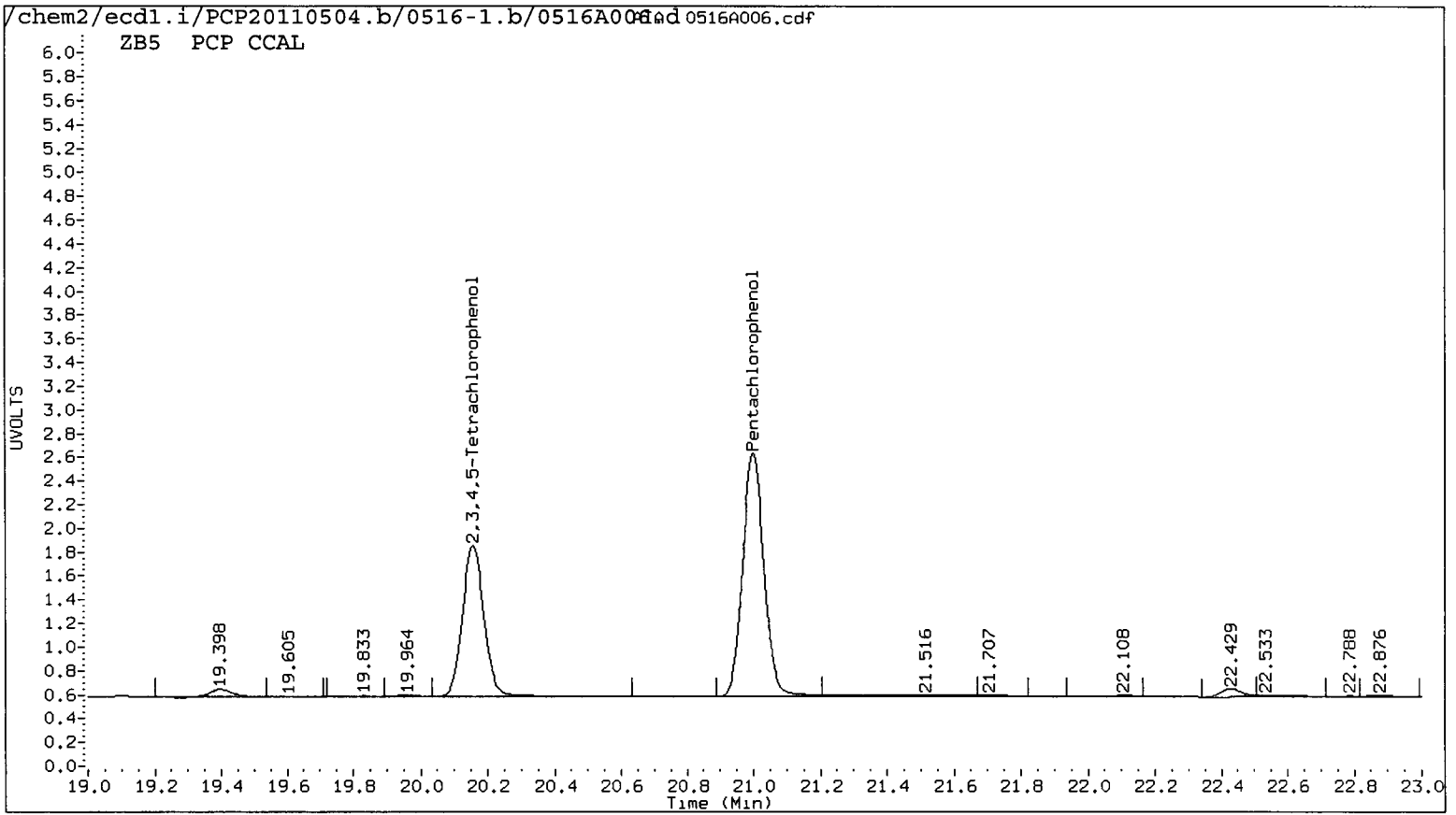
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A006.d ARI ID: PCP CCAL
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A006.d Client ID:
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 14:59
 Compound Sublist: all Report Date: 05/18/2011 09:24
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|-------|----------|----------|----------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 21.000 | 0.002 | 464148 | 22.970 | 0.003 | 606699 | 23.0356 | 21.5440 | 6.7 | Pentachlorophenol |
| 13.103 | 0.002 | 280213 | 14.313 | 0.002 | 317716 | 23.0197 | 21.9209 | 4.9 | 2,4,6-Trichlorophenol |
| 14.099 | 0.002 | 258799 | 15.560 | 0.003 | 307930 | 22.5974 | 21.4236 | 5.3 | 2,3,6-Trichlorophenol |
| 15.847 | 0.002 | 159029 | 17.476 | 0.002 | 187883 | 23.8418 | 23.2079 | 2.7 | 2,4,5-Trichlorophenol |
| 17.354 | 0.003 | 189962 | 19.024 | 0.001 | 217453 | 22.7355 | 23.6013 | 3.7 | 2,3,4-Trichlorophenol |
| 17.155 | 0.002 | 391755 | 18.815 | 0.001 | 476034 | 23.1716 | 21.6991 | 6.6 | 2,3,5,6-Tetrachlorophenol |
| 20.157 | 0.002 | 289355 | 22.082 | 0.002 | 360667 | 22.2894 | 23.4556 | 5.1 | 2,3,4,5-Tetrachlorophenol |
| 12.560 | 0.005 | 173370 | 13.822 | 0.002 | 163387 | 267.0214 | 229.5148 | 15.1 | 2,4-Dichlorophenol |
| 18.597 | 0.002 | 359910 | 20.938 | 0.002 | 464858 | 22.9 | 22.1 | 3.3 | 2,4,6-Tribromophenol (surr) |

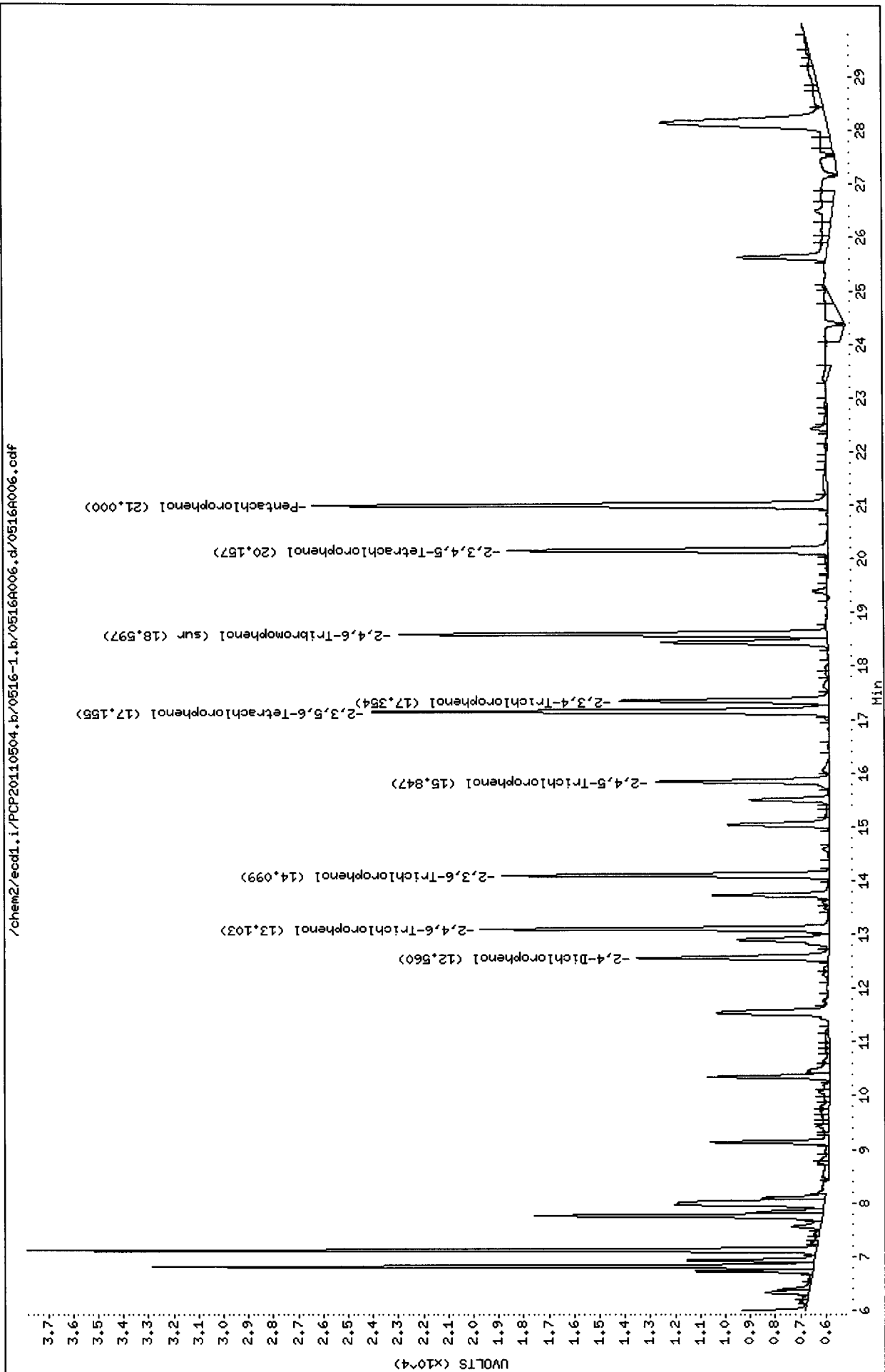
PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|------|
| Pentachlorophenol | 92.1 | 86.2 |
| 2,4,6-Trichlorophenol | 92.1 | 87.7 |
| 2,3,6-Trichlorophenol | 90.4 | 85.7 |
| 2,4,5-Trichlorophenol | 95.4 | 92.8 |
| 2,3,4-Trichlorophenol | 90.9 | 94.4 |
| 2,3,5,6-Tetrachlorophenol | 92.7 | 86.8 |
| 2,3,4,5-Tetrachlorophenol | 89.2 | 93.8 |
| 2,4-Dichlorophenol | 106.8 | 91.8 |
| 2,4,6-TBP (surr) | 91.4 | 88.4 |





Data File: /chem2/eecd1.i/PCP20110504.b/0516-1.b/0516A006.d
Date : 16-MAY-2011 14:59
Client ID:
Instrument: eecd1.i
Sample Info: PCP CCAL
Operator: ar
Purge Volume: 500.0
Column diameter: 0.53
Column phase: STX CLP1



Data File: /chem2/ecdl1.i/PCP20110504.b/0516-2.b/0516A006.d

Date : 16-MAY-2011 14:59

Client ID:

Sample Info: PCP CCAL

Purge Volume: 500.0

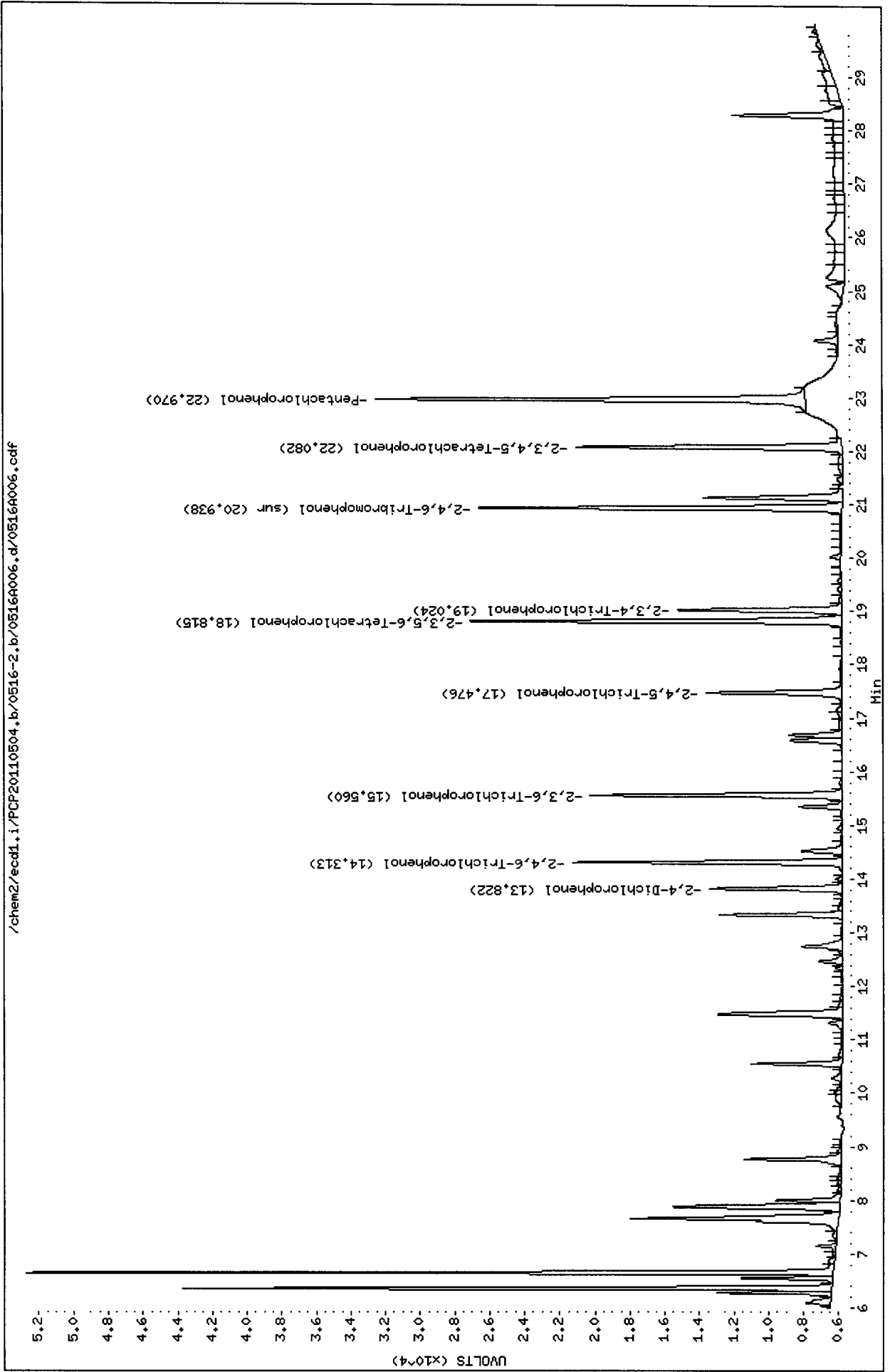
Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

/chem2/ecdl1.i/PCP20110504.b/0516-2.b/0516A006.d/0516A006.cdf



Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

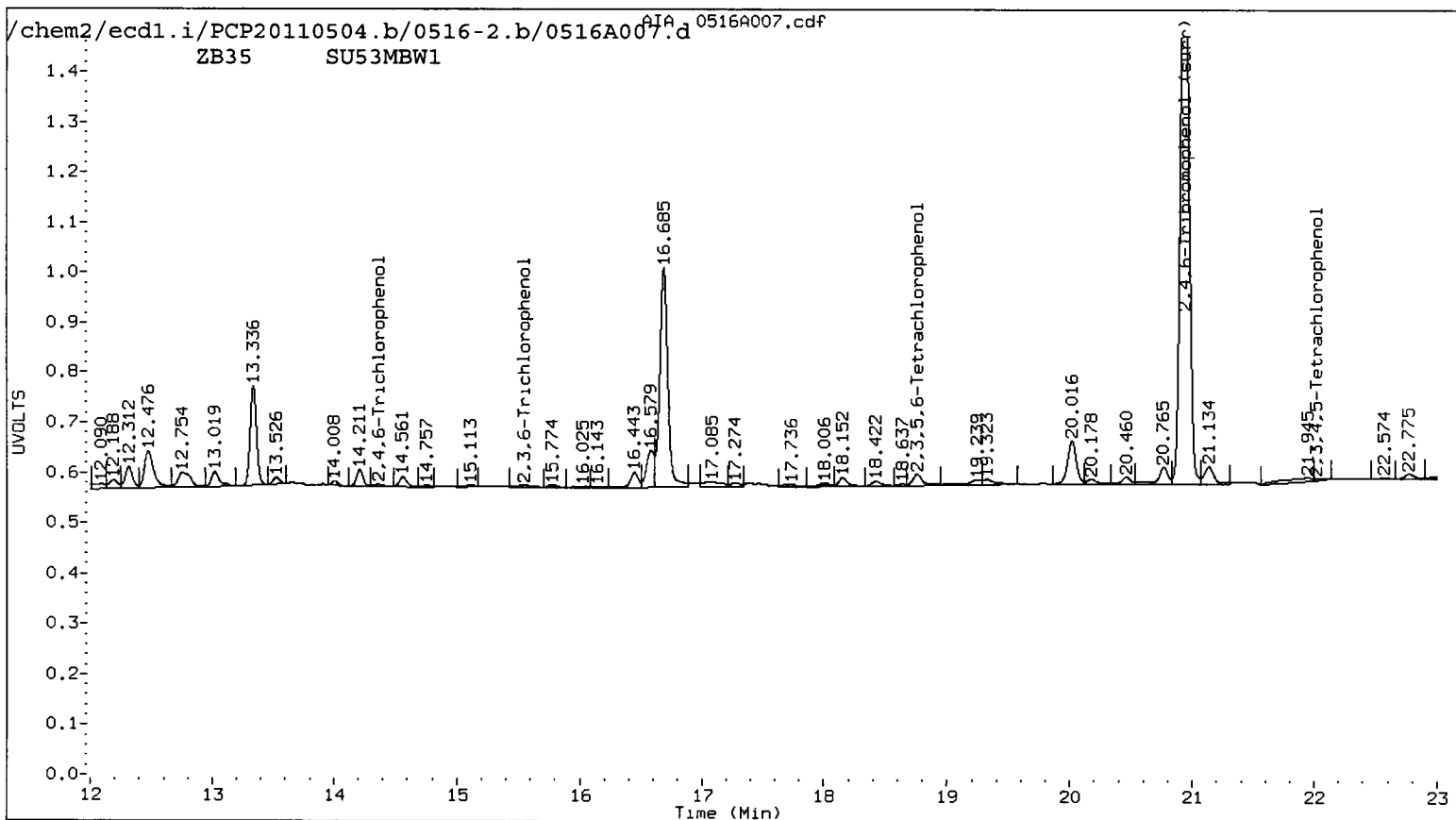
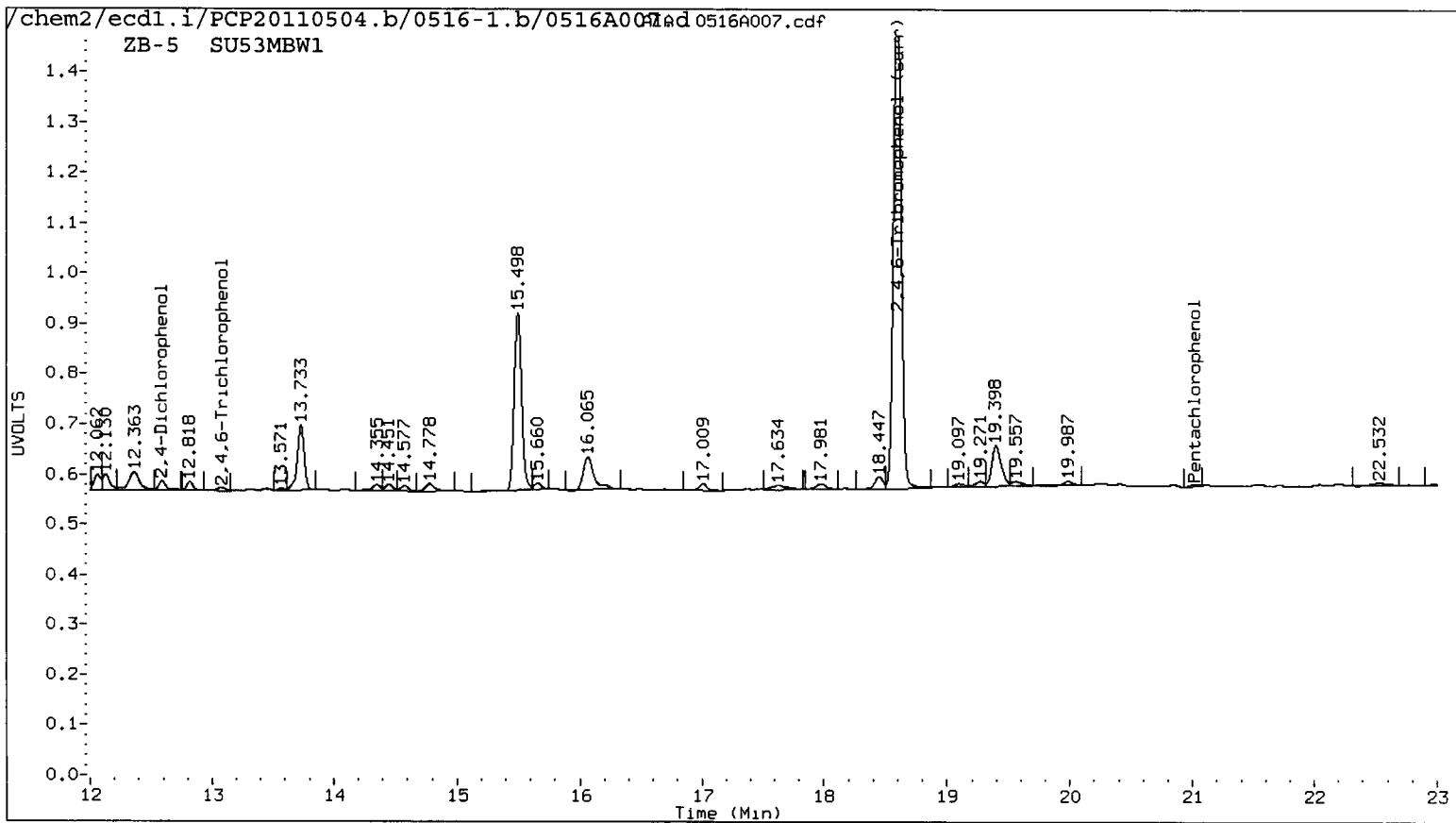
AR-5/16/2011

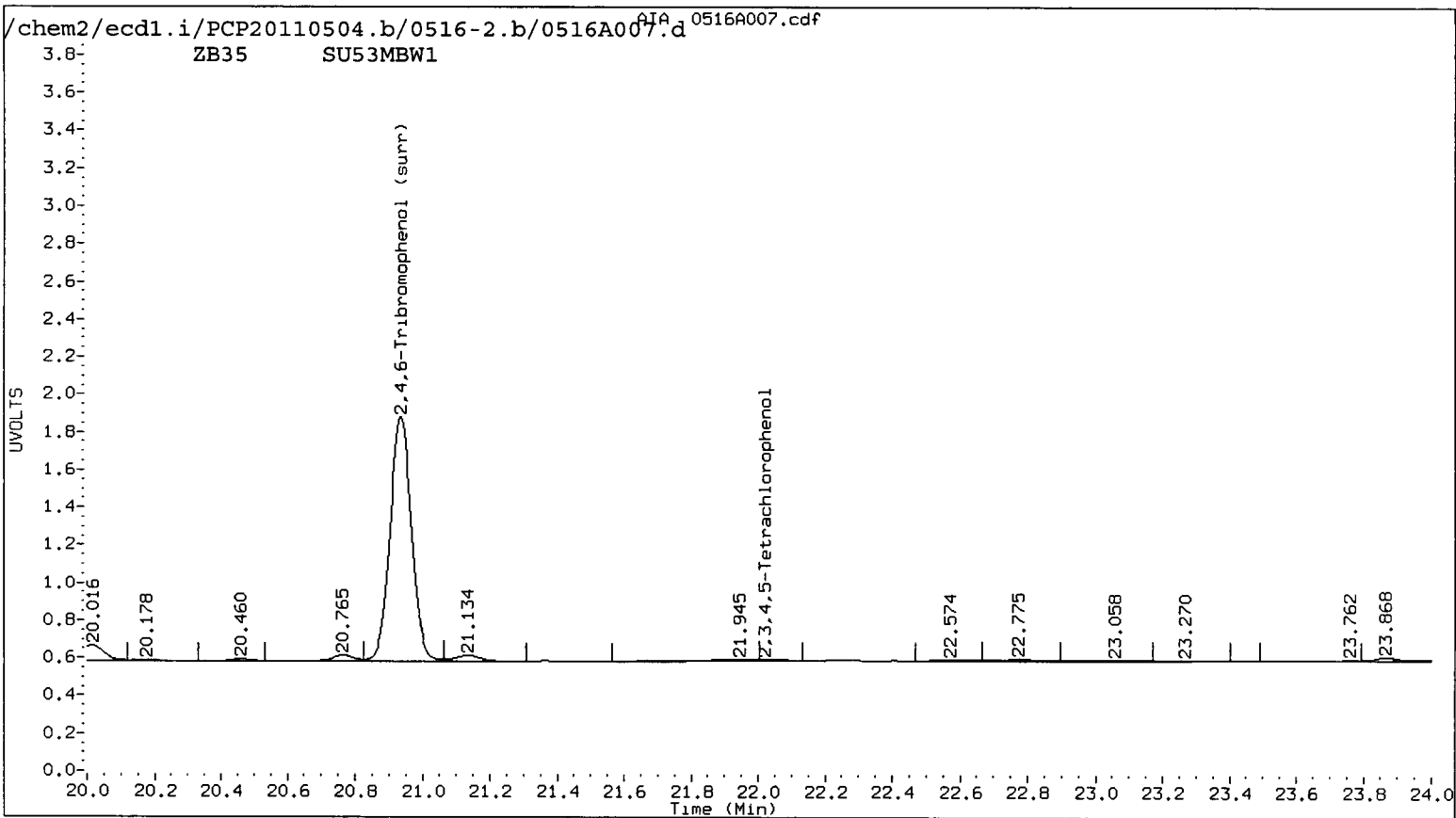
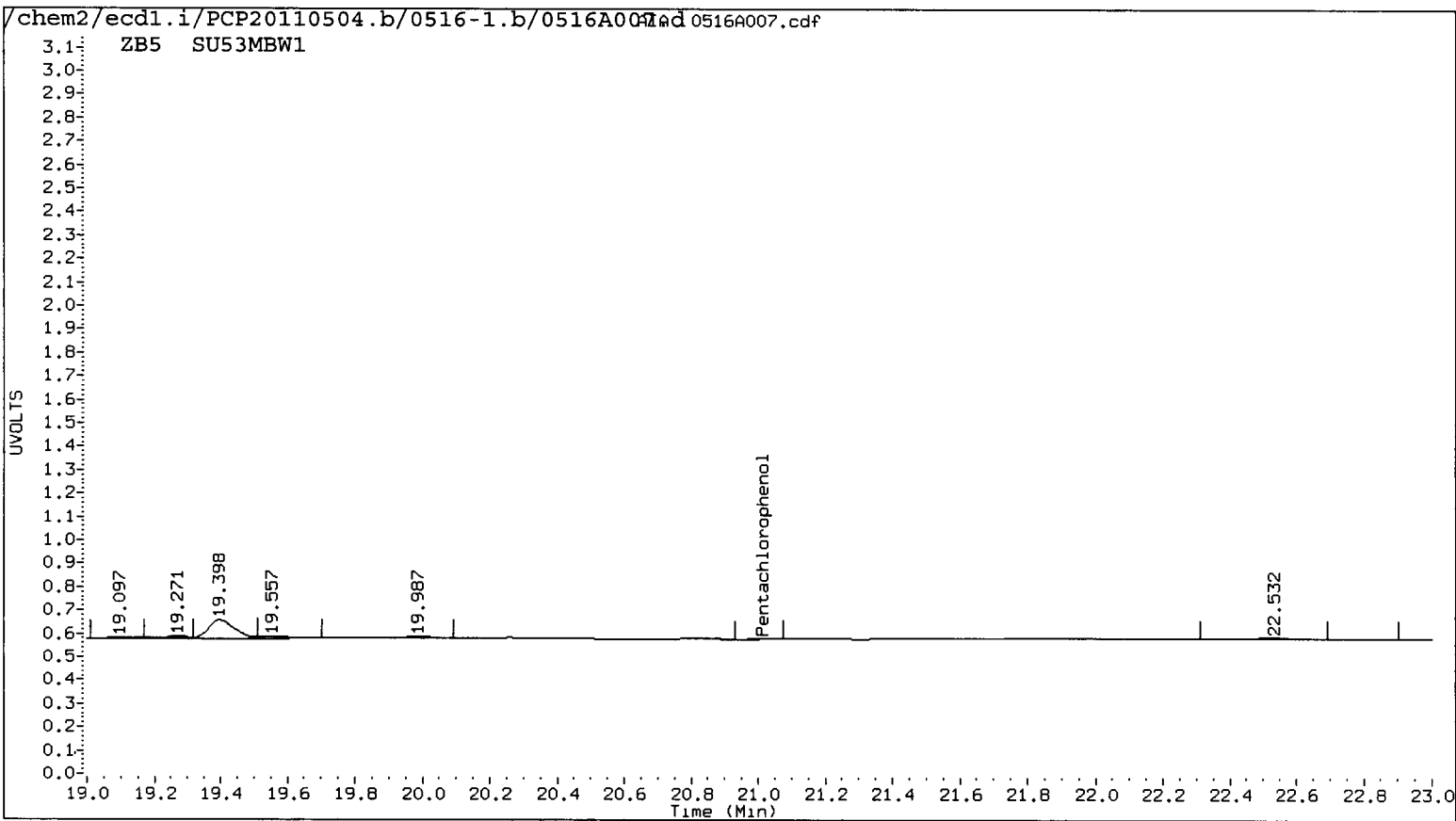
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 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A007.d Client ID: SU53MBW1
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 15:36
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|----------------------------|----------------|----------------|------|-----------------------------|
| 21.012 | 0.015 830 | ---- | 0.0412 | 0.0000 | --- | Pentachlorophenol |
| 13.079 | -0.022 1432 | 14.366 0.055 1210 | 0.1177 | 0.0835 | 34.0 | 2,4,6-Trichlorophenol |
| ---- | ---- | 15.550 -0.007 1731 | 0.0000 | 0.1205 | --- | 2,3,6-Trichlorophenol |
| ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| ---- | ---- | 18.757 -0.057 6611 | 0.0000 | 0.3014 | --- | 2,3,4-Trichlorophenol |
| ---- | ---- | 22.022 -0.058 910 | 0.0000 | 0.0531 | --- | 2,3,5,6-Tetrachlorophenol |
| 12.588 | 0.033 3736 | ---- | 4.6317 | 0.0000 | --- | 2,3,4,5-Tetrachlorophenol |
| 18.597 | 0.001 22056 | 20.936 0.000 290671 | 14.1 | 13.8 | 2.0 | 2,4-Dichlorophenol |
| | | | | | | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 56.4 | 55.3 |





Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A007.d

Date : 16-MAY-2011 15:36

Client ID: SU53MBW1

Sample Info: SU53MBW1

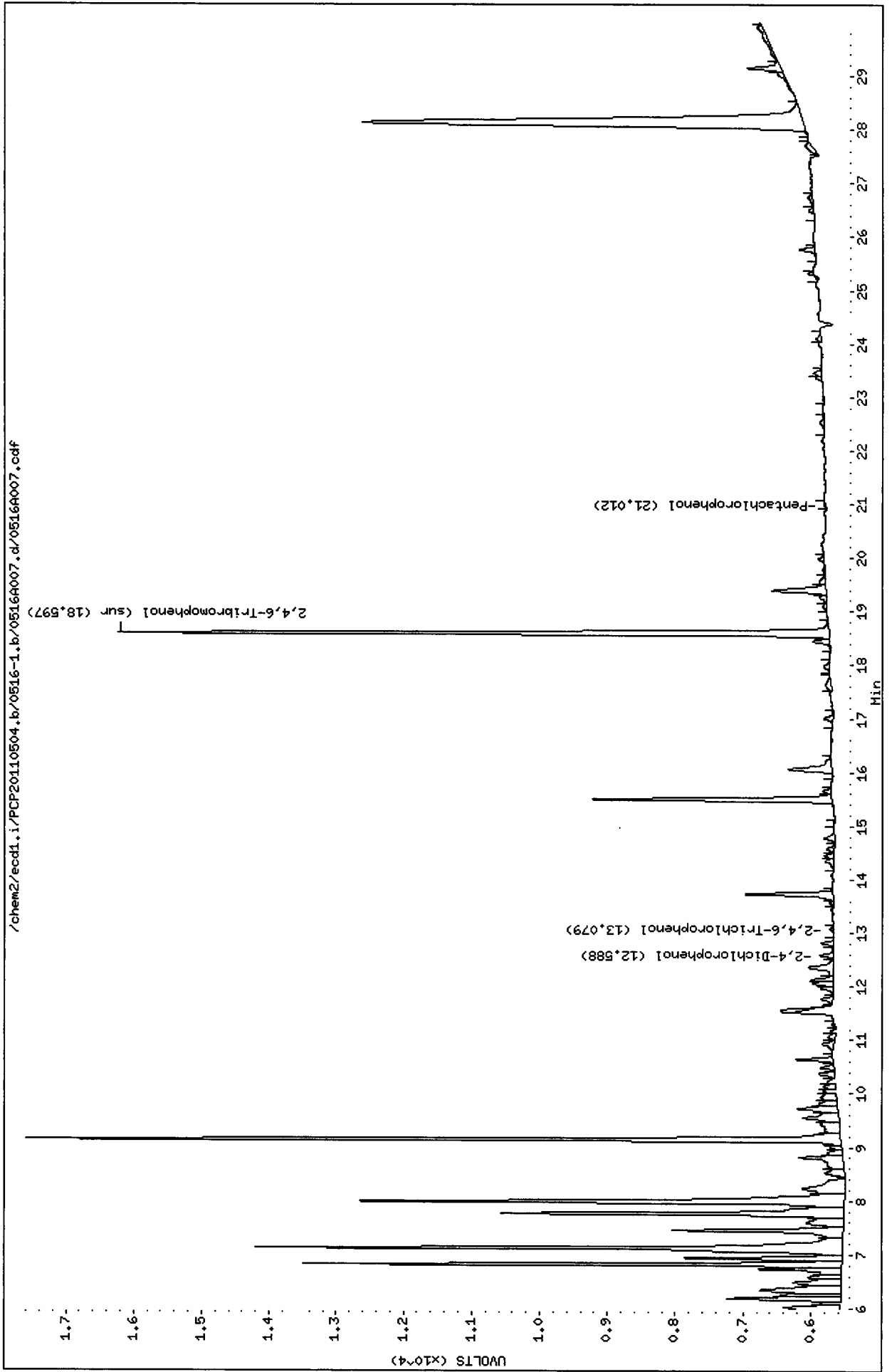
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A007.d

Date : 16-MAY-2011 15:36

Client ID: SU53MBW1

Sample Info: SU53MBW1

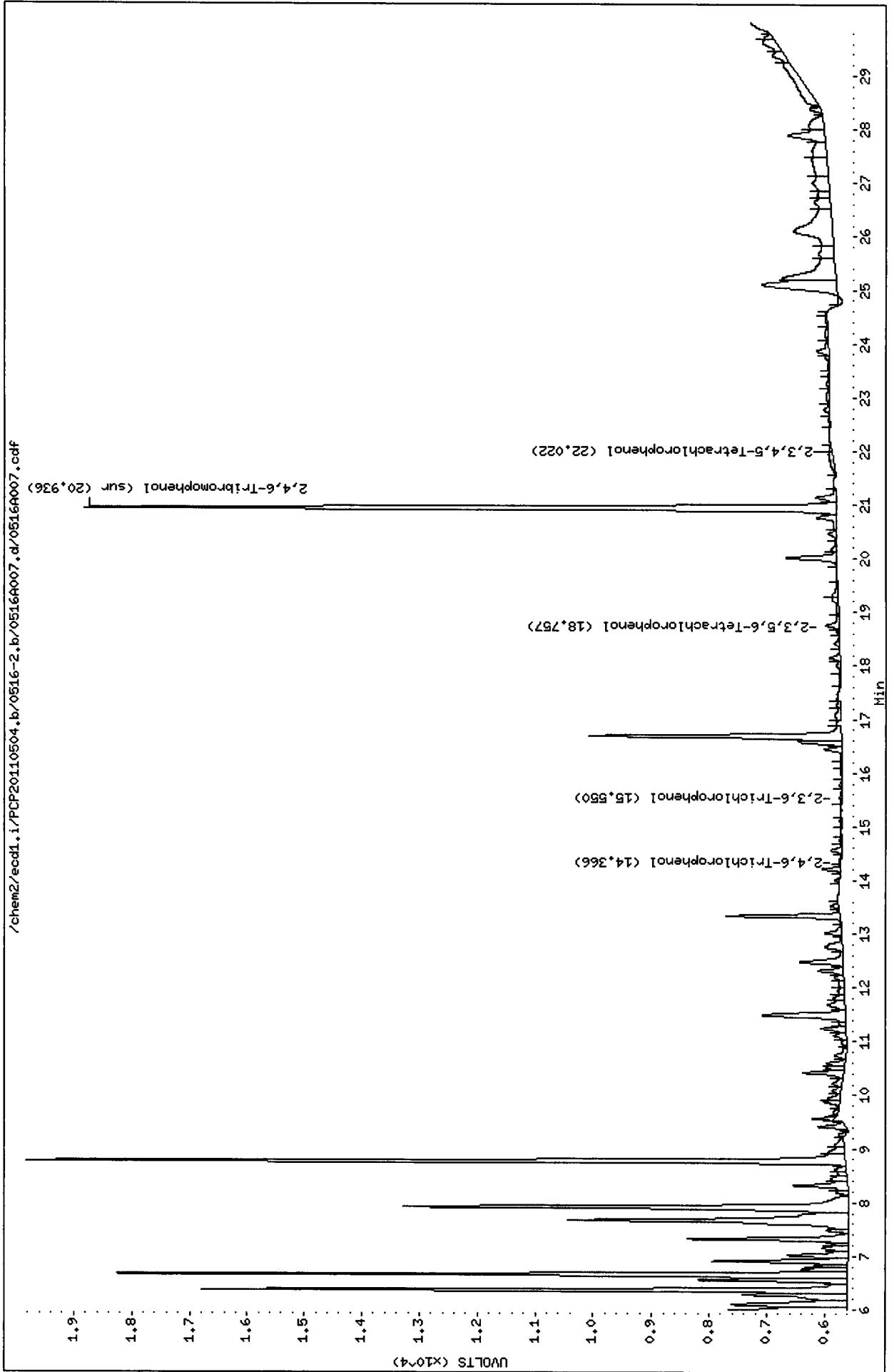
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



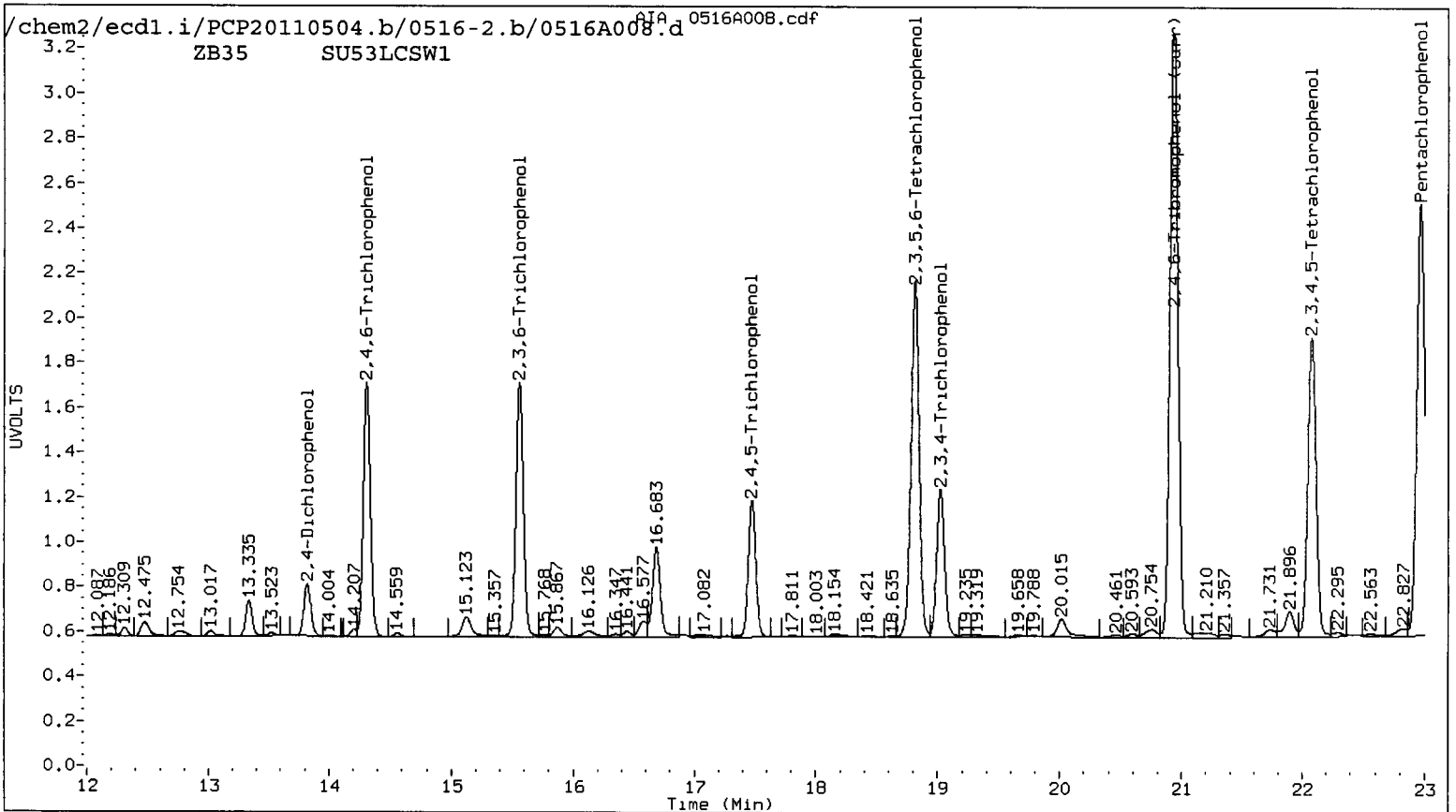
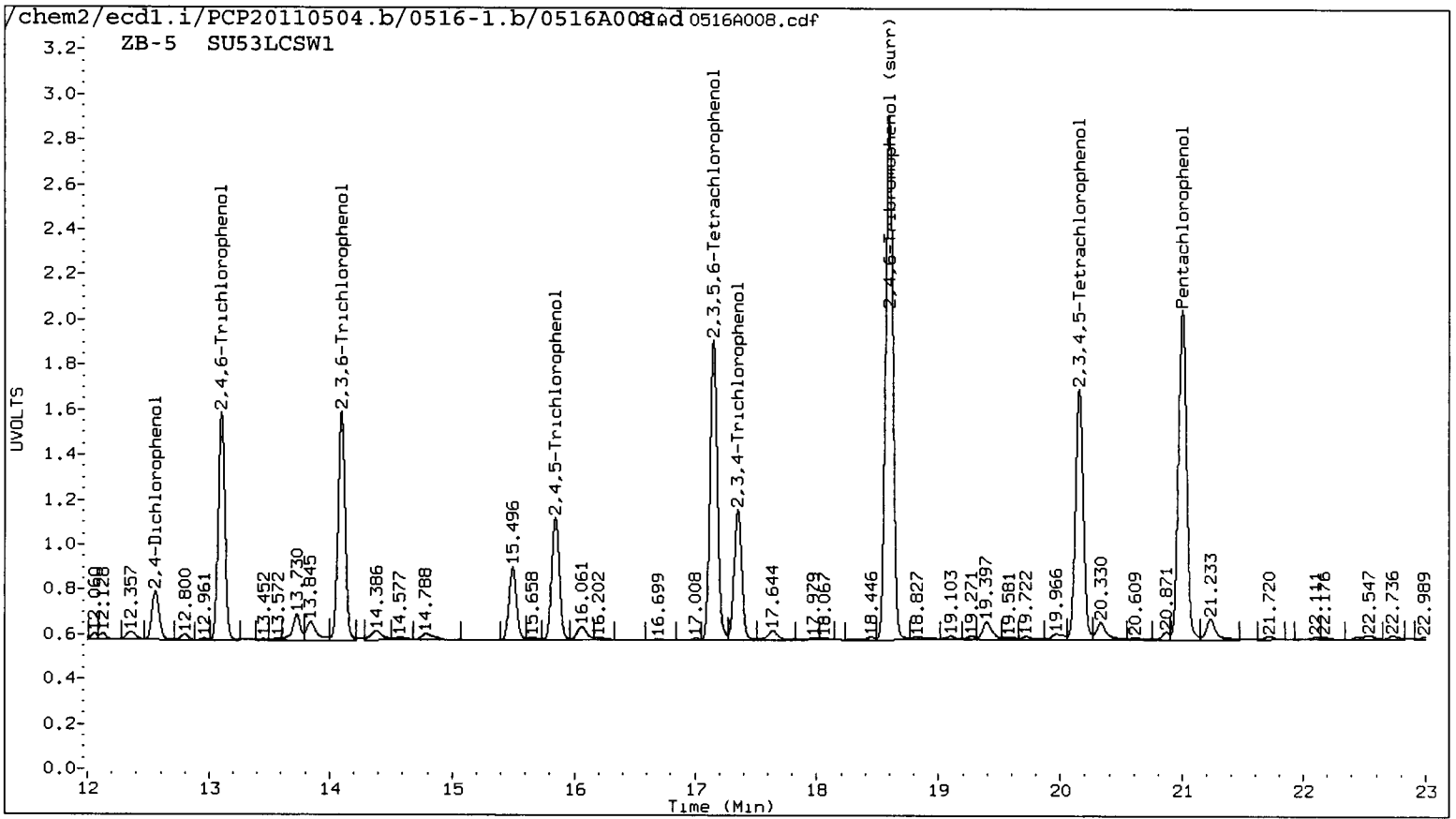
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

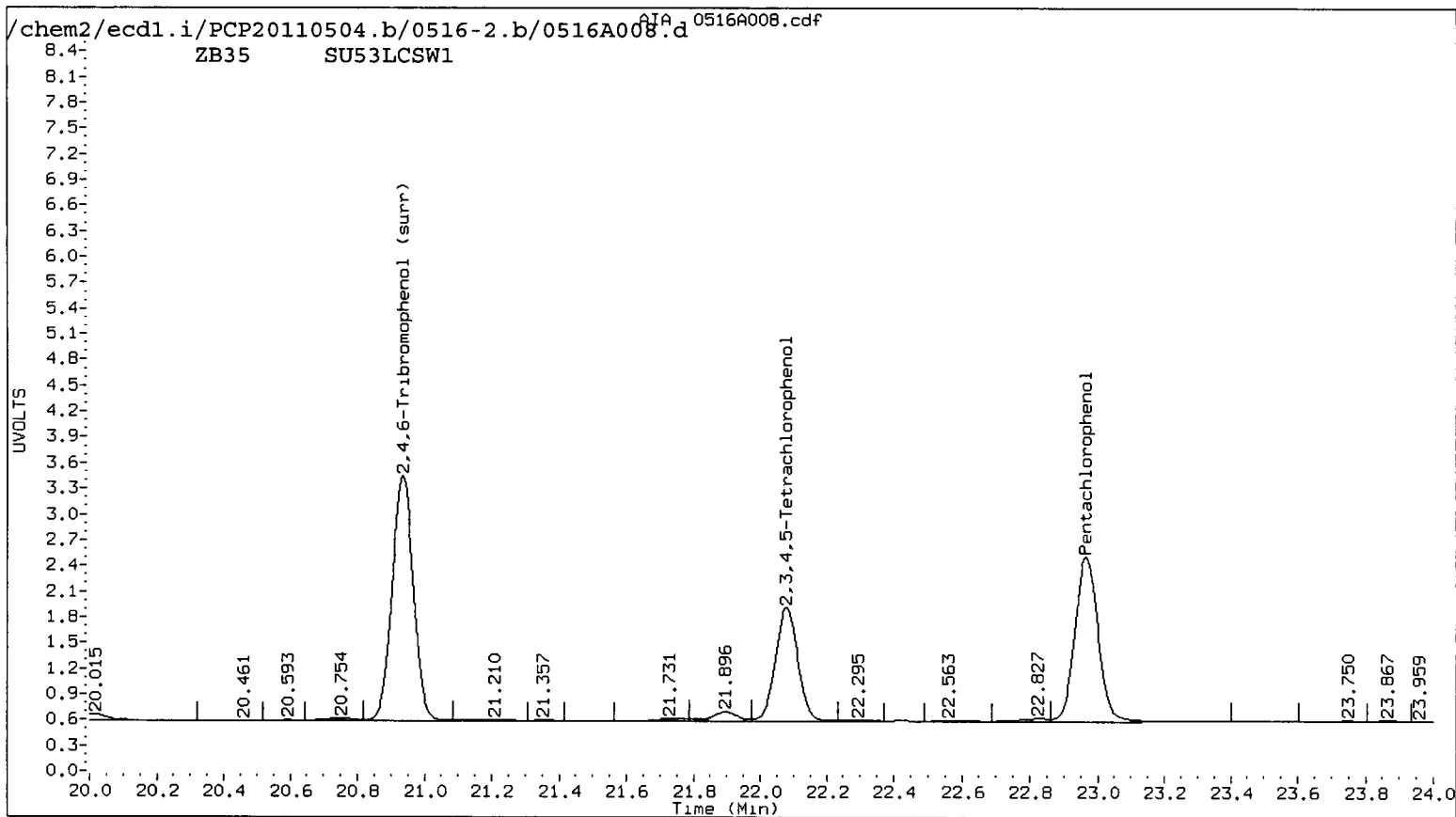
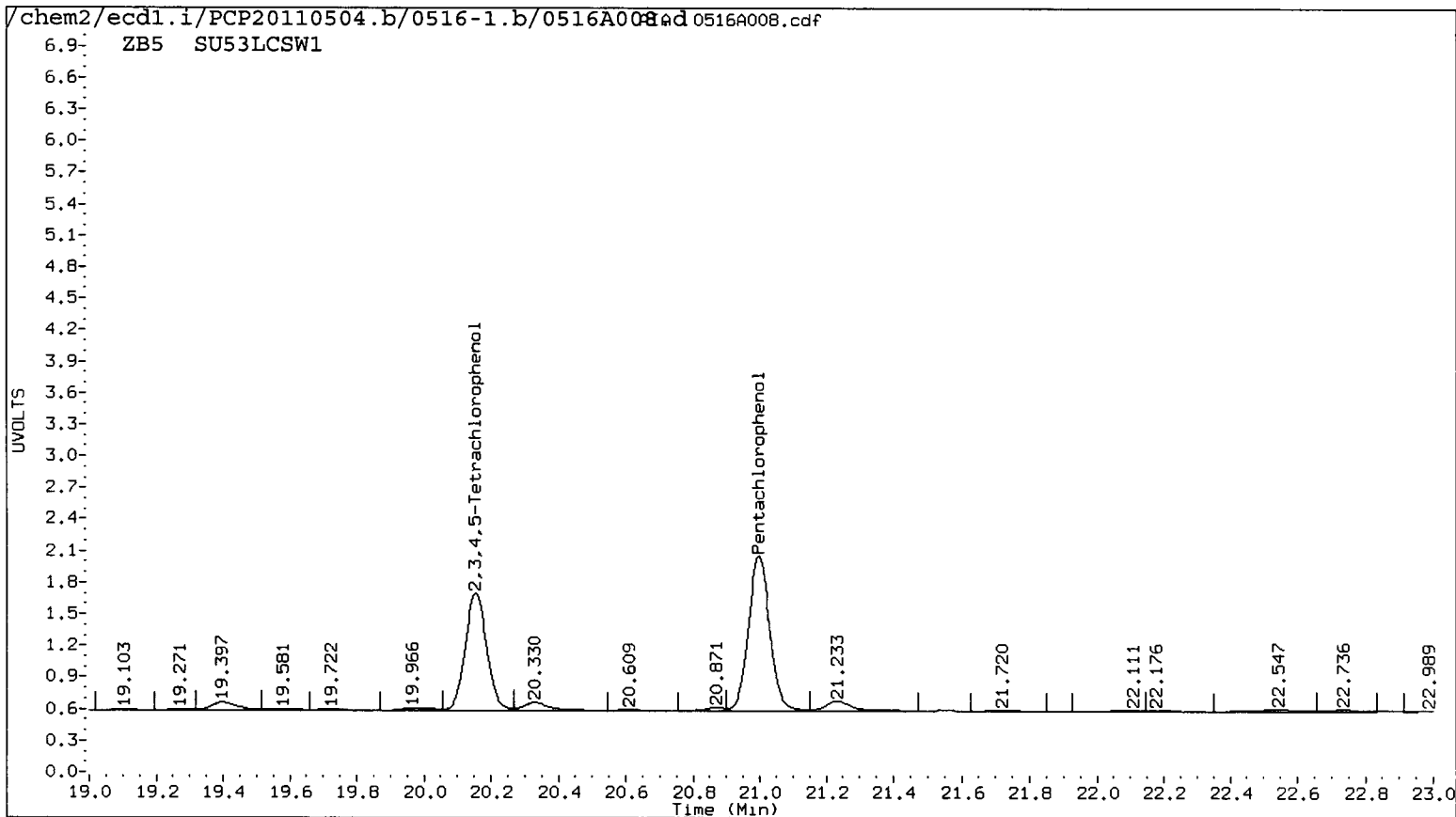
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A008.d ARI ID: SU53LCSW1
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A008.d Client ID: SU53LCSW1
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 16:12
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | RT | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|--------|----------------------------|----------------|----------------|-----|-----------------------------|
| 20.997 | 0.000 / 331863 | 22.967 | 0.000 / 458787 | 16.4703 | 16.2917 | 1.1 | Pentachlorophenol |
| 13.101 | 0.000 198467 | 14.311 | 0.000 231509 | 16.3042 | 15.9730 | 2.1 | 2,4,6-Trichlorophenol |
| 14.097 | 0.000 206408 | 15.557 | 0.000 245179 | 18.0228 | 17.0579 | 5.5 | 2,3,6-Trichlorophenol |
| 15.845 | 0.000 116016 | 17.474 | 0.000 135437 | 16.7531 | 16.7296 | 0.1 | 2,4,5-Trichlorophenol |
| 17.352 | 0.000 128471 | 19.022 | -0.001 150186 | 15.3759 | 15.6803 | 2.0 | 2,3,4-Trichlorophenol |
| 17.152 | 0.000 282825 | 18.813 | -0.001 360233 | 16.7286 | 16.4205 | 1.9 | 2,3,5,6-Tetrachlorophenol |
| 20.155 | 0.000 251189 | 22.079 | -0.001 311238 | 19.3494 | 19.9564 | 3.1 | 2,3,4,5-Tetrachlorophenol |
| 12.557 | 0.002 / 44077 | 13.821 | 0.001 / 49134 | 57.7907 | 59.3915 | 2.7 | 2,4-Dichlorophenol |
| 18.595 | 0.000 / 495363 | 20.936 | 0.000 638621 | 31.5 | 30.4 / | 3.5 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

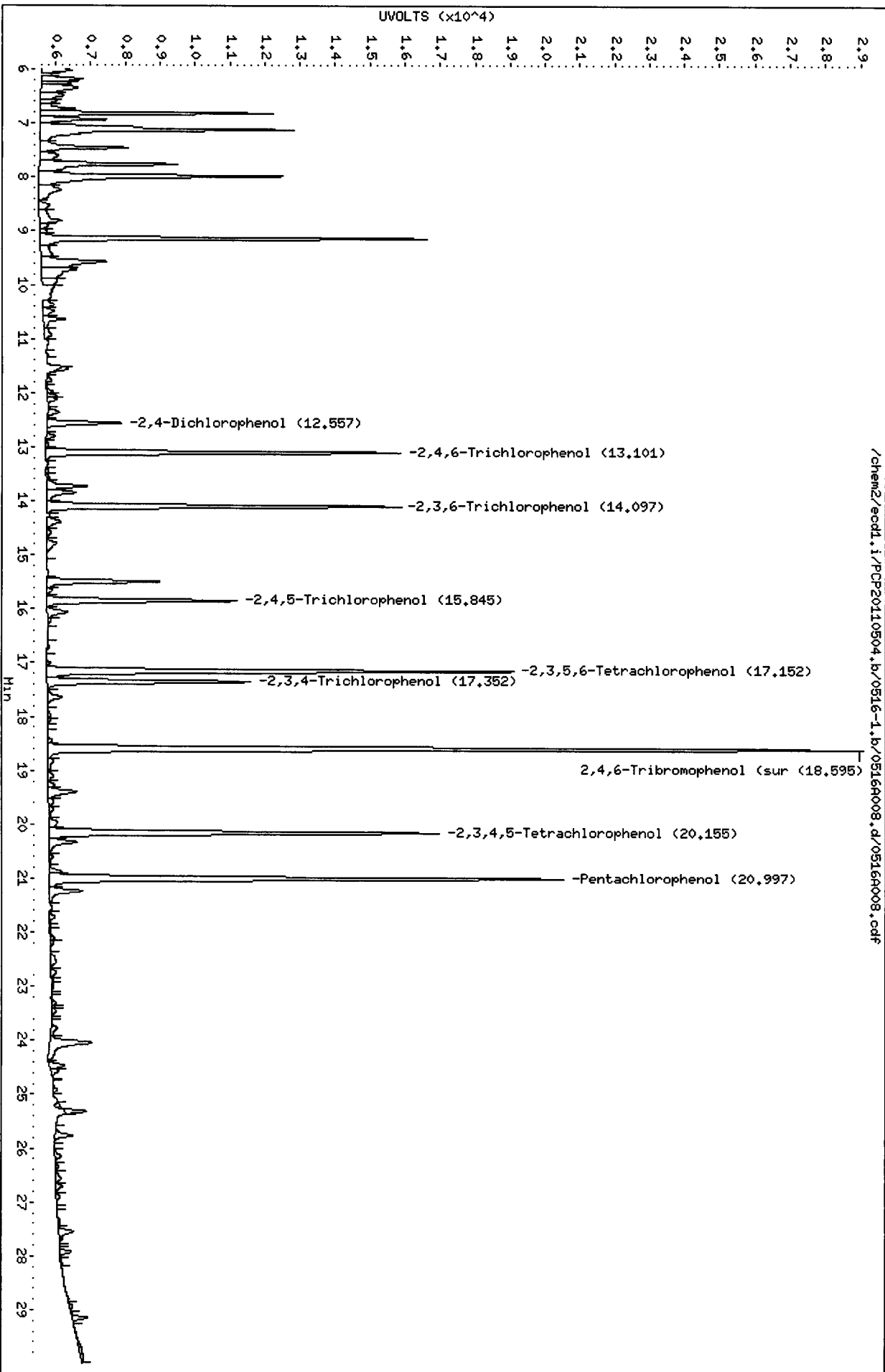
| COMPOUND | Col1 | Col2 |
|---------------------------|------|------|
| Pentachlorophenol | 65.9 | 65.2 |
| 2,4,6-Trichlorophenol | 65.2 | 63.9 |
| 2,3,6-Trichlorophenol | 72.1 | 68.2 |
| 2,4,5-Trichlorophenol | 67.0 | 66.9 |
| 2,3,4-Trichlorophenol | 61.5 | 62.7 |
| 2,3,5,6-Tetrachlorophenol | 66.9 | 65.7 |
| 2,3,4,5-Tetrachlorophenol | 77.4 | 79.8 |
| 2,4-Dichlorophenol | 23.1 | 23.8 |
| 2,4,6-TBP (surr) | 62.9 | 60.8 |





Data File: /chem2/eecd1.i/PCP20110504.b/0516-1.b/0516A008.d
Date: 16-MAY-2011 16:12
Client ID: SUS3LCSM1
Sample Info: SUS3LCSM1
Purge Volume: 500.0
Column phase: STX CLP1

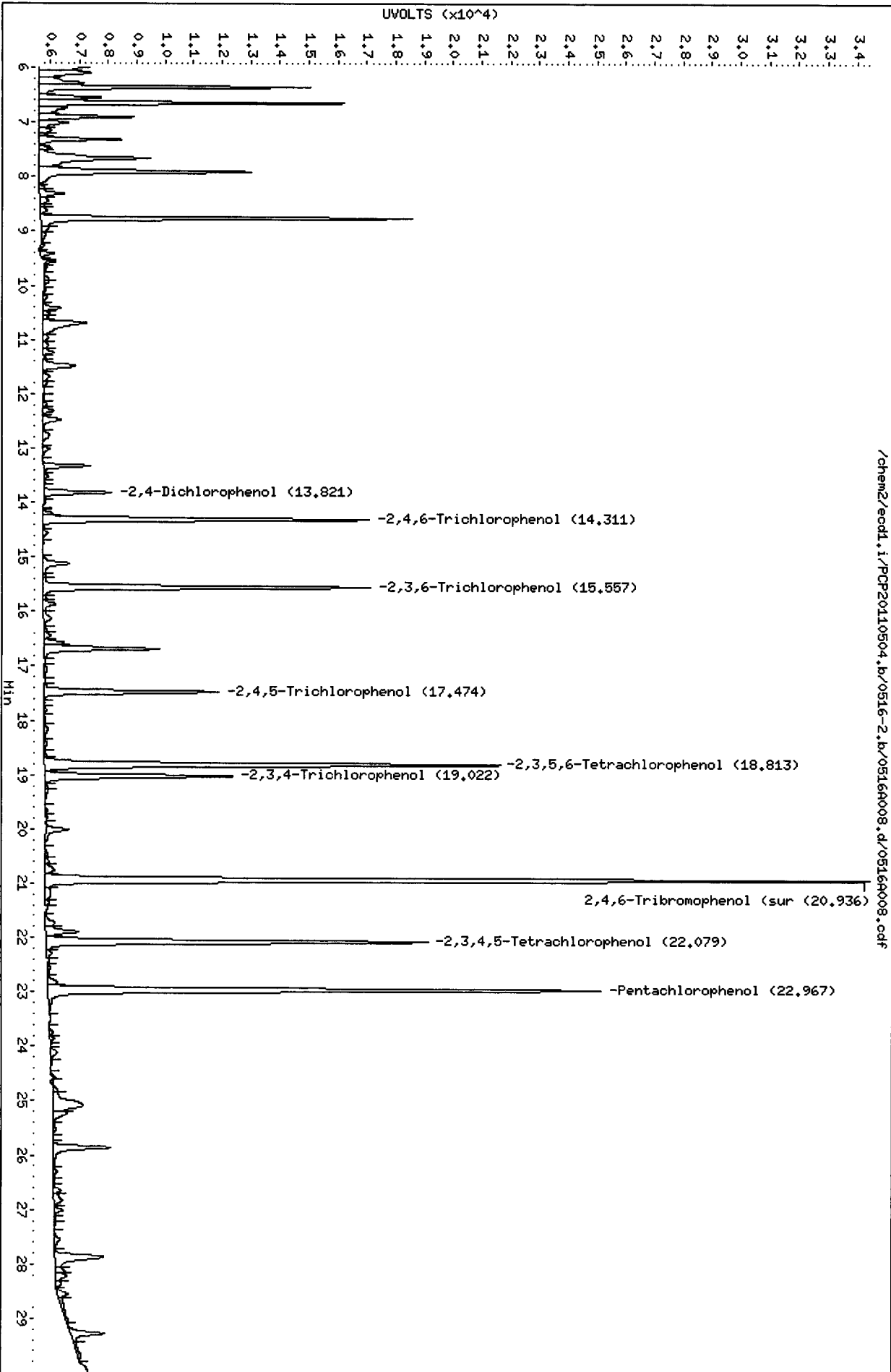
Instrument: eecd1.i
Operator: ar
Column diameter: 0.53



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Data File: /chem2/eod1.i/PCP20110504.b/0516-2.b/0516R008.d
Date: 16-MAY-2011 16:12
Client ID: SUS3LCSM4
Sample Info: SUS3LCSM4
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: eod1.i
Operator: ar
Column diameter: 0.53



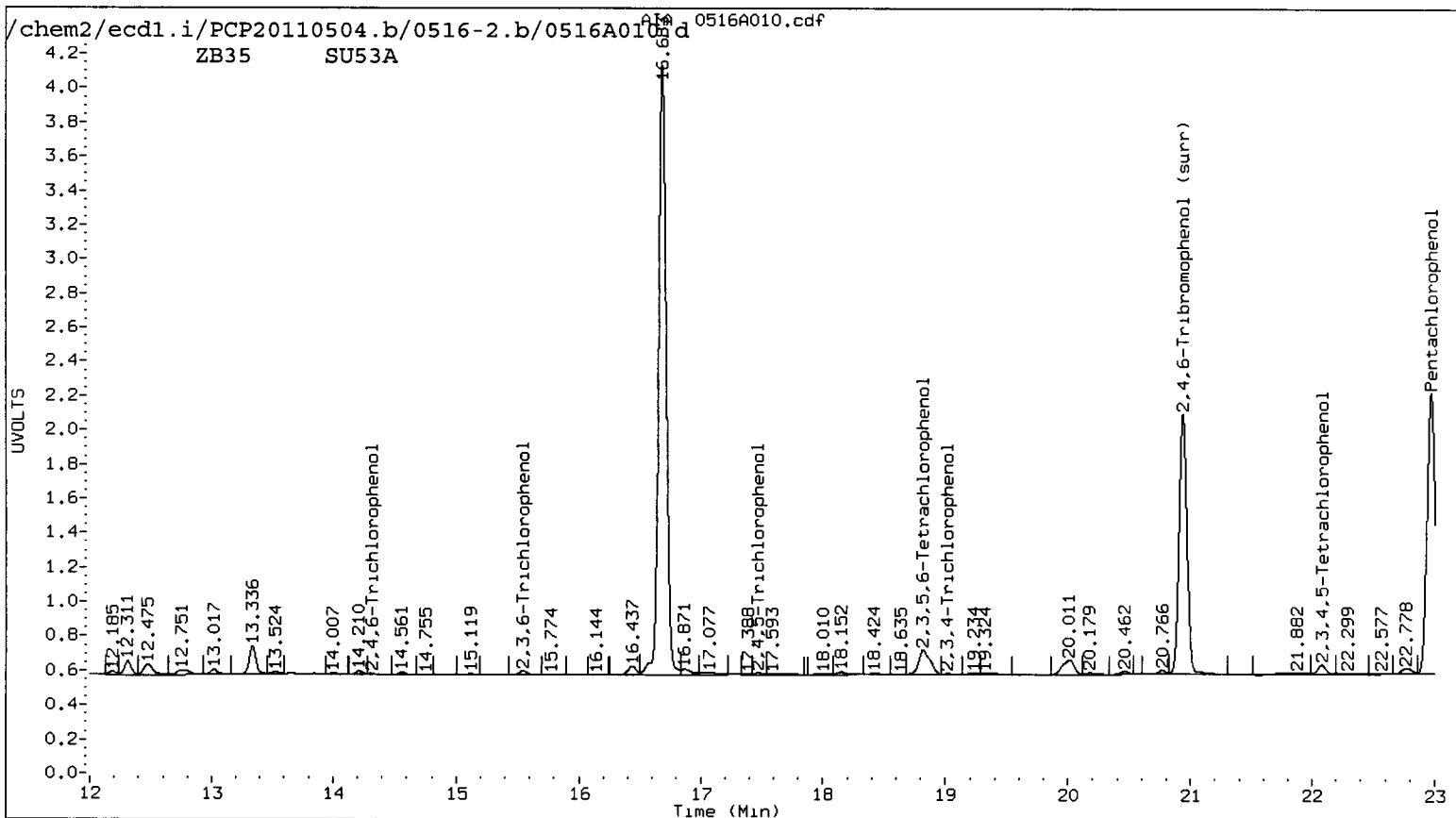
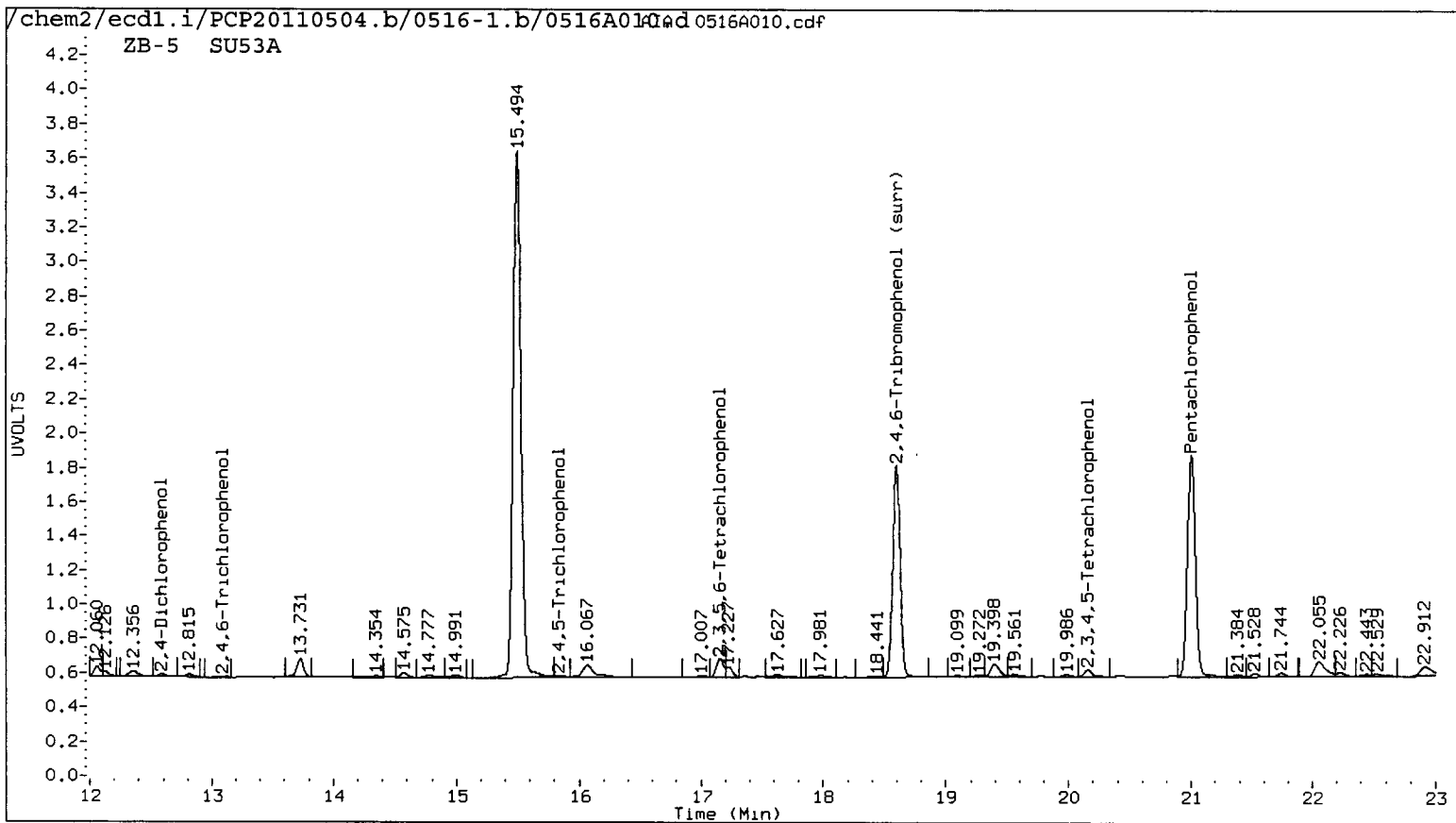
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

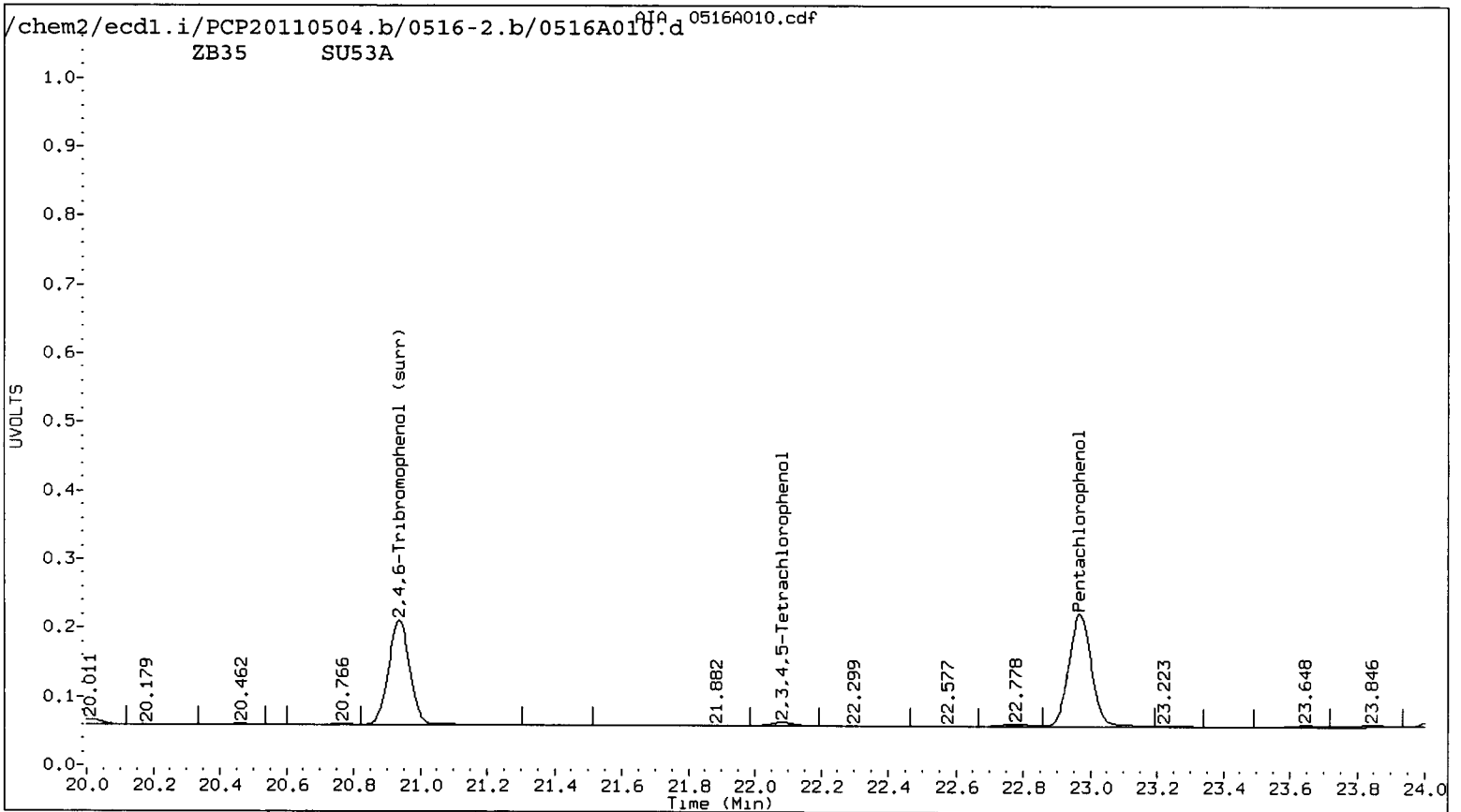
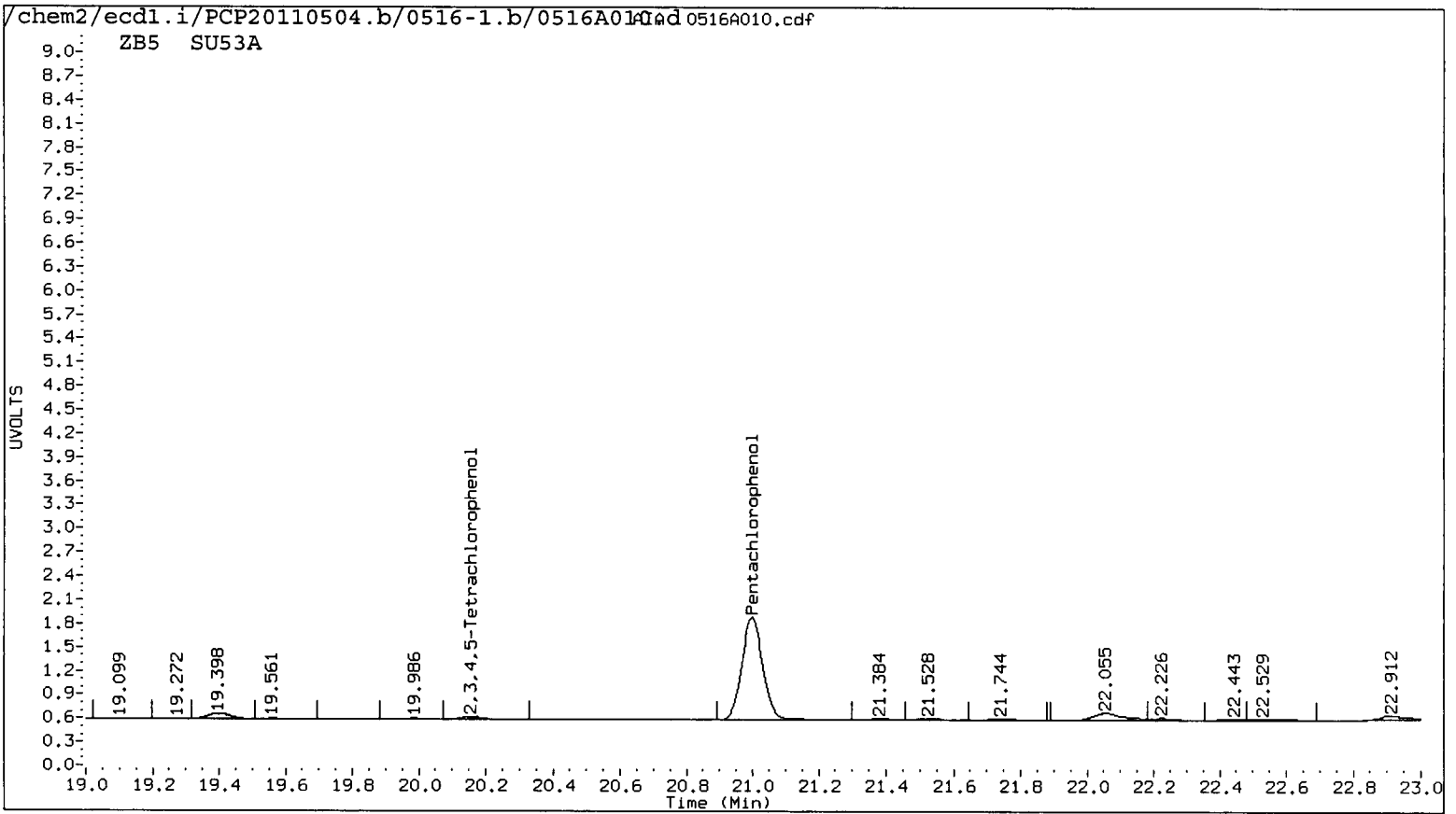
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 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A010.d Client ID: MW5042811
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 17:25
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | ZB35 Col Shift Response | RT | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|----------------------------|---------|----------------|----------------|-----------------------------|----------|
| 20.999 | 0.002 289677 | 22.968 0.001 383485 | 14.3767 | 13.6177 | 5.4 | Pentachlorophenol | |
| 13.088 | -0.013 1585 | 14.317 0.006 1877 | 0.1302 | 0.1296 | 0.5 | 2,4,6-Trichlorophenol | |
| ---- | | 15.544 -0.013 6029 | 0.0000 | 0.4195 | --- | 2,3,6-Trichlorophenol | |
| 15.835 | -0.010 2690 | 17.473 -0.002 2554 | 0.3494 | 0.3155 | 10.2 | 2,4,5-Trichlorophenol | |
| ---- | | 19.019 -0.004 962 | 0.0000 | 0.0917 | --- | 2,3,4-Trichlorophenol | |
| 17.154 | 0.002 22049 | 18.818 0.004 45902 | 1.3042 | 2.0924 | 46.4* | 2,3,5,6-Tetrachlorophenol | |
| 20.158 | 0.003 8627 | 22.082 0.002 12397 | 0.6646 | 0.7263 | 8.9 | 2,3,4,5-Tetrachlorophenol | |
| 12.586 | 0.031 3021 | ---- | 3.7411 | 0.0000 | --- | 2,4-Dichlorophenol | |
| 18.597 | 0.001 261720 | 20.937 0.001 338365 | 16.6 | 16.1 | 3.2 | 2,4,6-Tribromophenol (surr) | |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 66.5 | 64.4 |





Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A010.d

Date : 16-MAY-2011 17:25

Client ID: MW5042811

Sample Info: SU53A

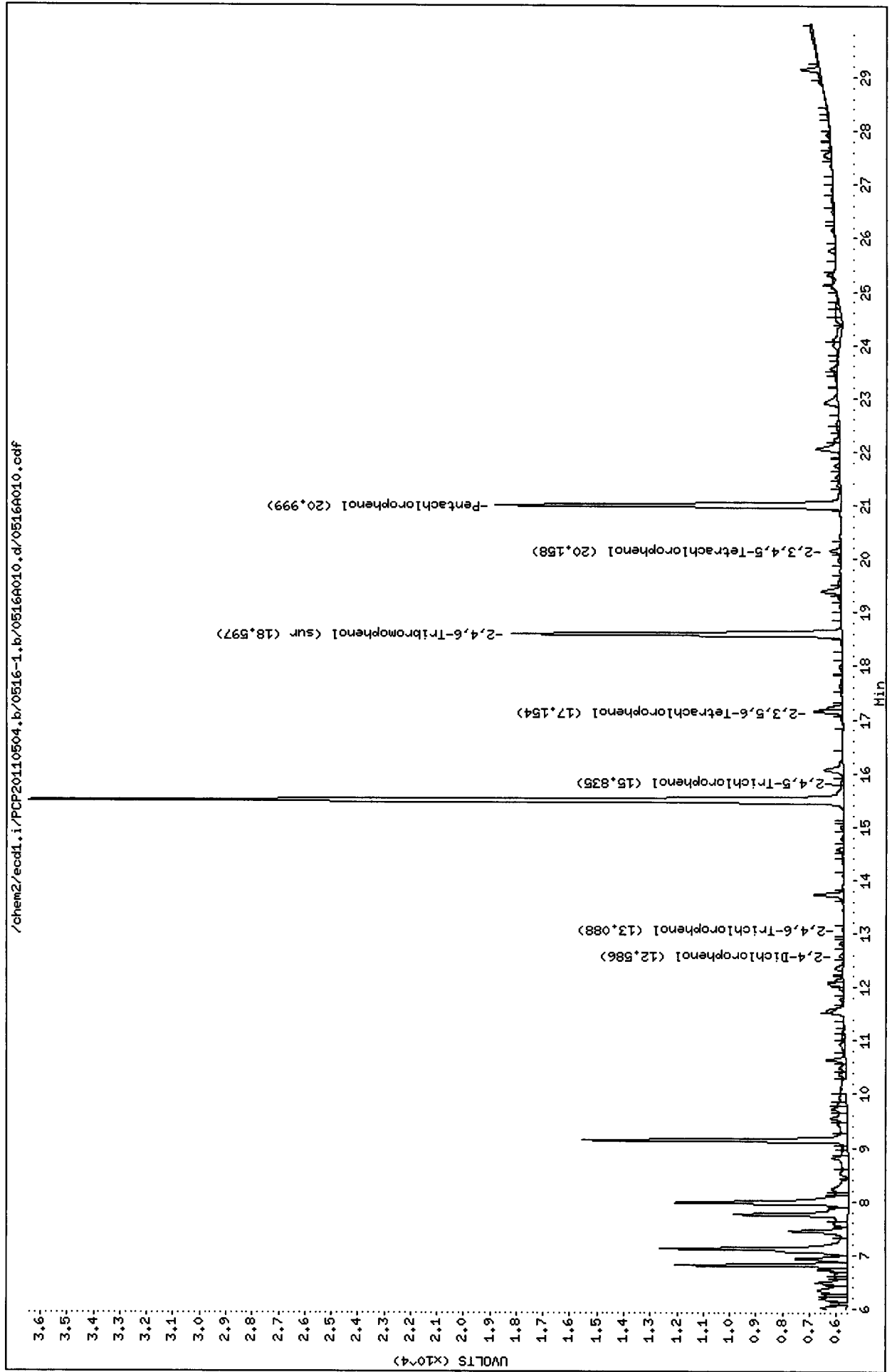
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

Operator: ar

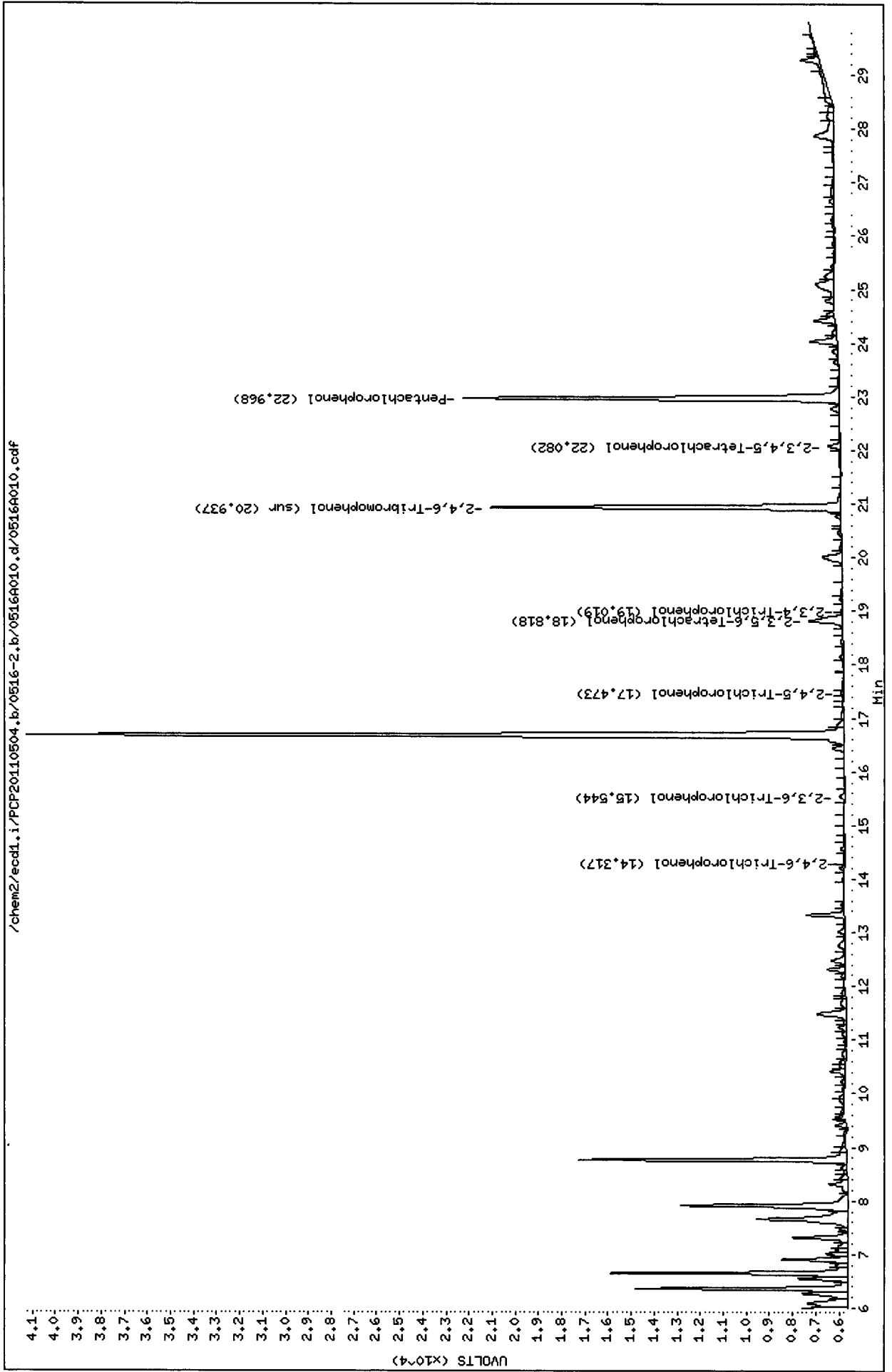
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A010.d
Date : 16-MAY-2011 17:25
Client ID: MM5042811
Sample Info: SU53A
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



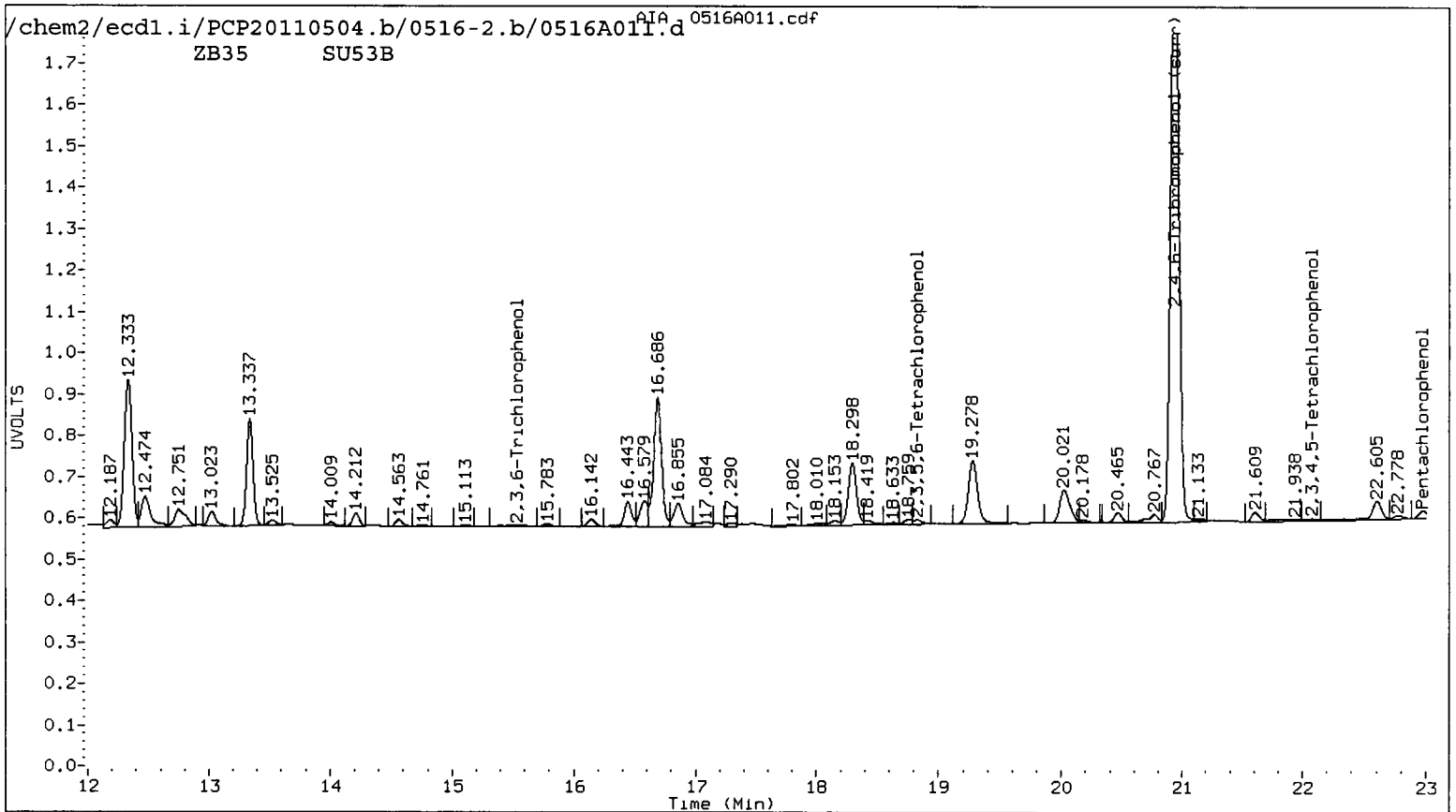
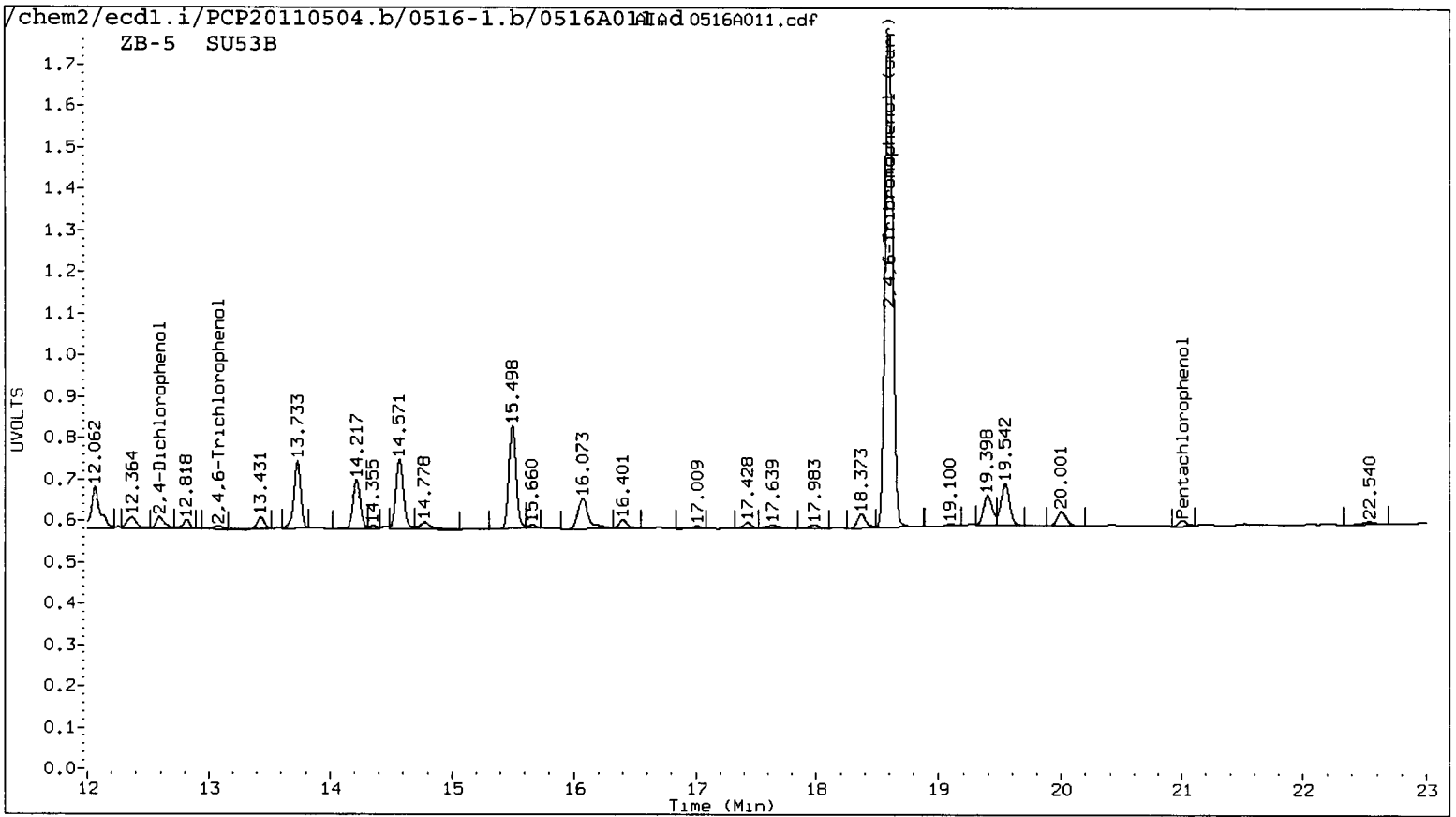
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

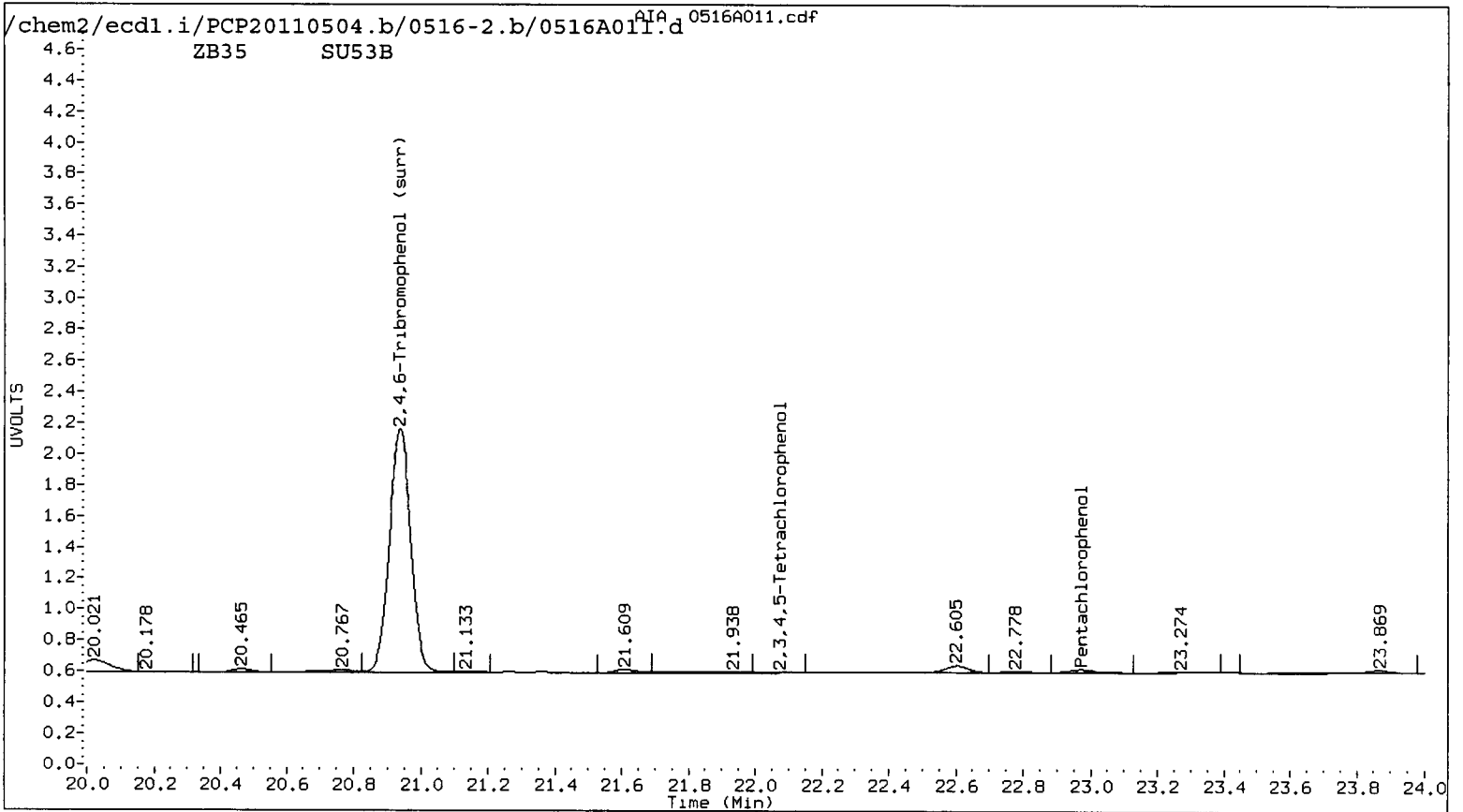
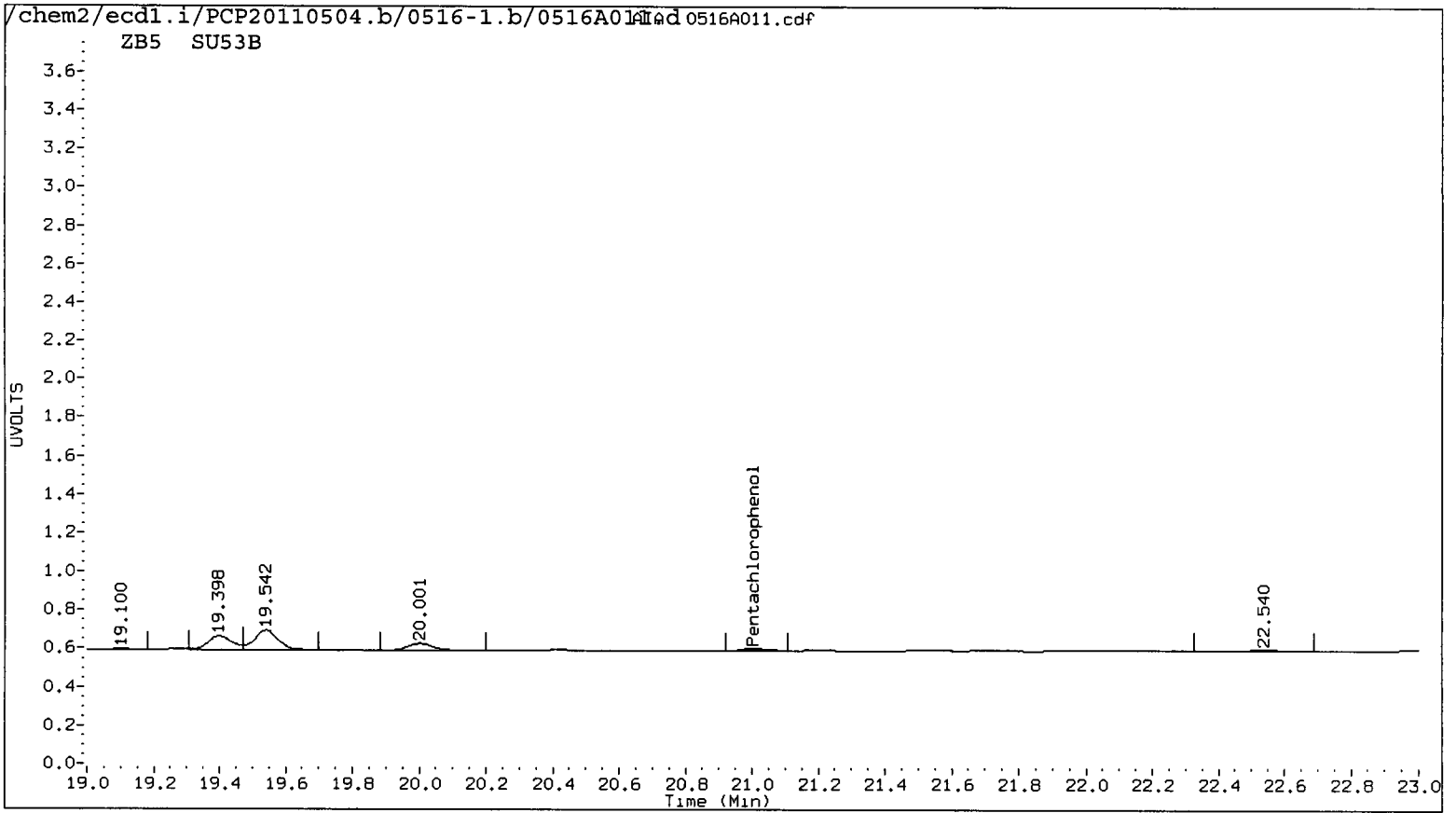
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A011.d ARI ID: SU53B
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A011.d Client ID: MW15042811
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 18:01
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|--------|--------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 21.004 | 0.007 | 3050 | 22.972 | 0.005 | 5071 | 0.1514 | 0.1801 | 17.3 | Pentachlorophenol |
| 13.079 | -0.022 | 1969 | ---- | ---- | ---- | 0.1618 | 0.0000 | --- | 2,4,6-Trichlorophenol |
| ---- | ---- | ---- | 15.535 | -0.022 | 2406 | 0.0000 | 0.1674 | --- | 2,3,6-Trichlorophenol |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.0000 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| ---- | ---- | ---- | 18.827 | 0.013 | 2342 | 0.0000 | 0.1068 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | ---- | ---- | 22.078 | -0.002 | 1426 | 0.0000 | 0.0833 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.590 | 0.035 | 7449 | ---- | ---- | ---- | 9.2834 | 0.0000 | --- | 2,4-Dichlorophenol |
| 18.598 | 0.002 | 267390 | 20.938 | 0.002 | 349655 | 17.0 | 16.6 | 2.1 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 67.9 | 66.5 |





Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A011.d

Date : 16-MAY-2011 18:01

Client ID: MM15042811

Sample Info: SU53B

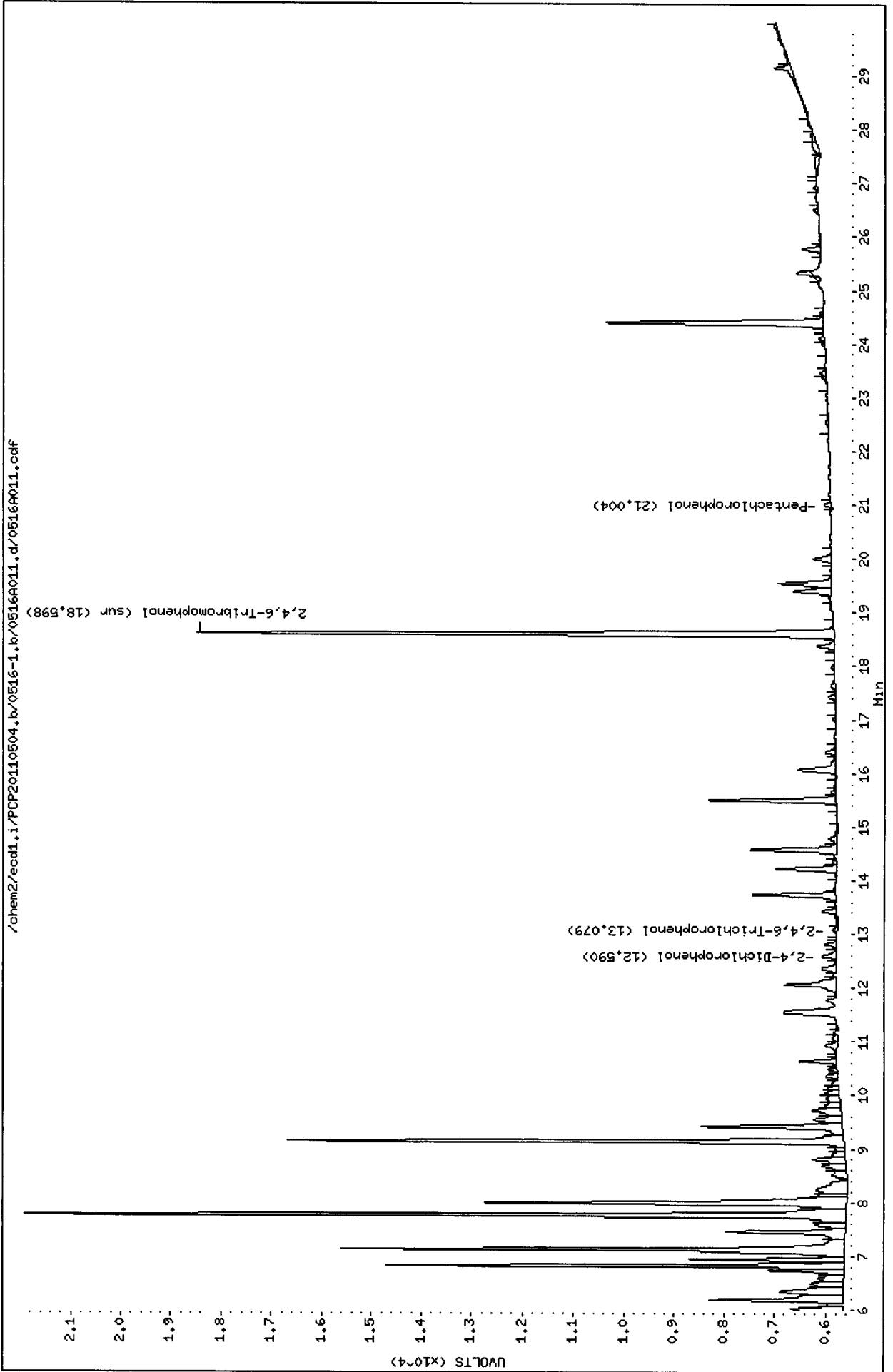
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecdl1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A011.d

Date : 16-MAY-2011 18:01

Client ID: MM15042811

Sample Info: SU53B

Purge Volume: 500.0

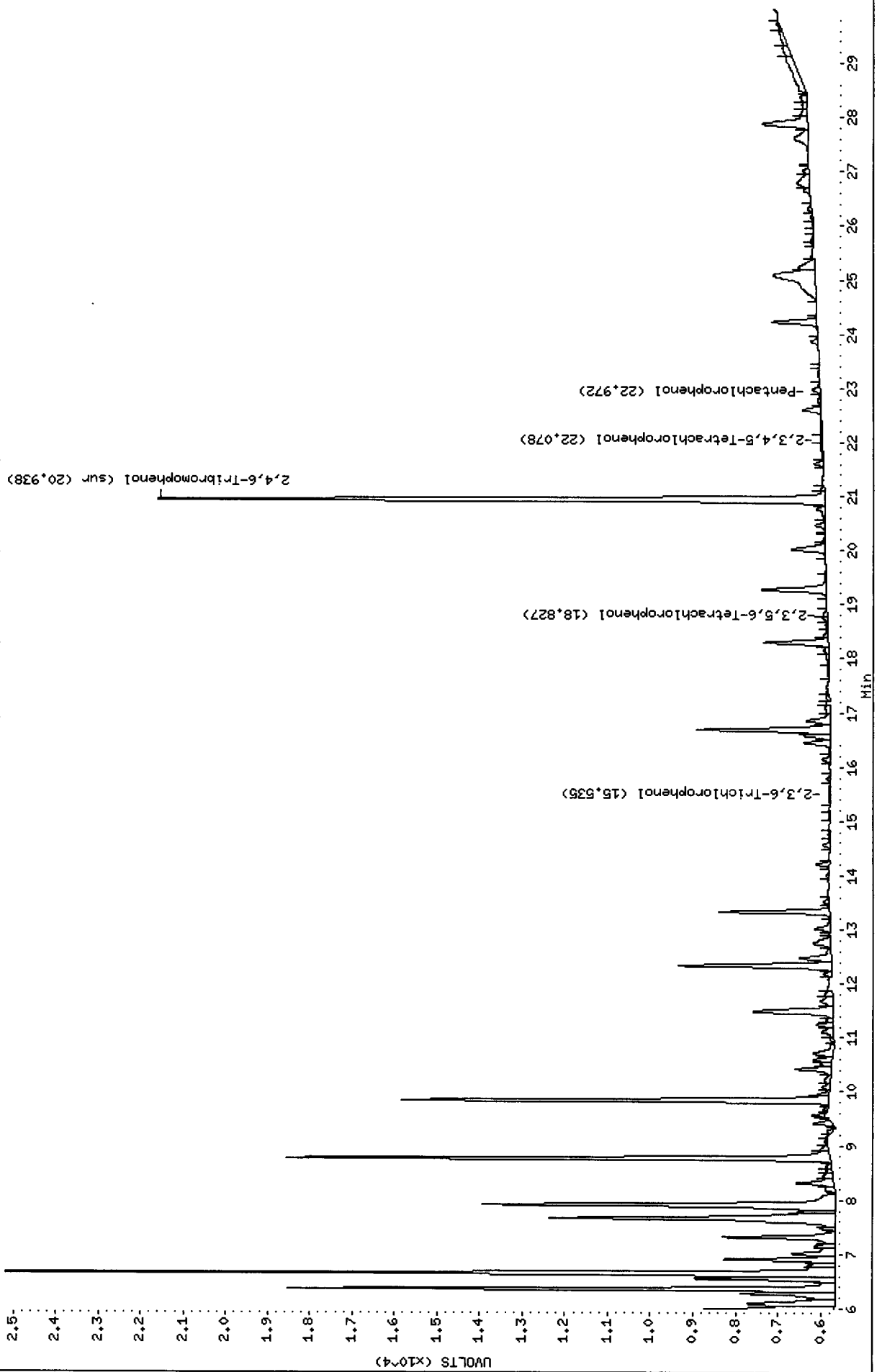
Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

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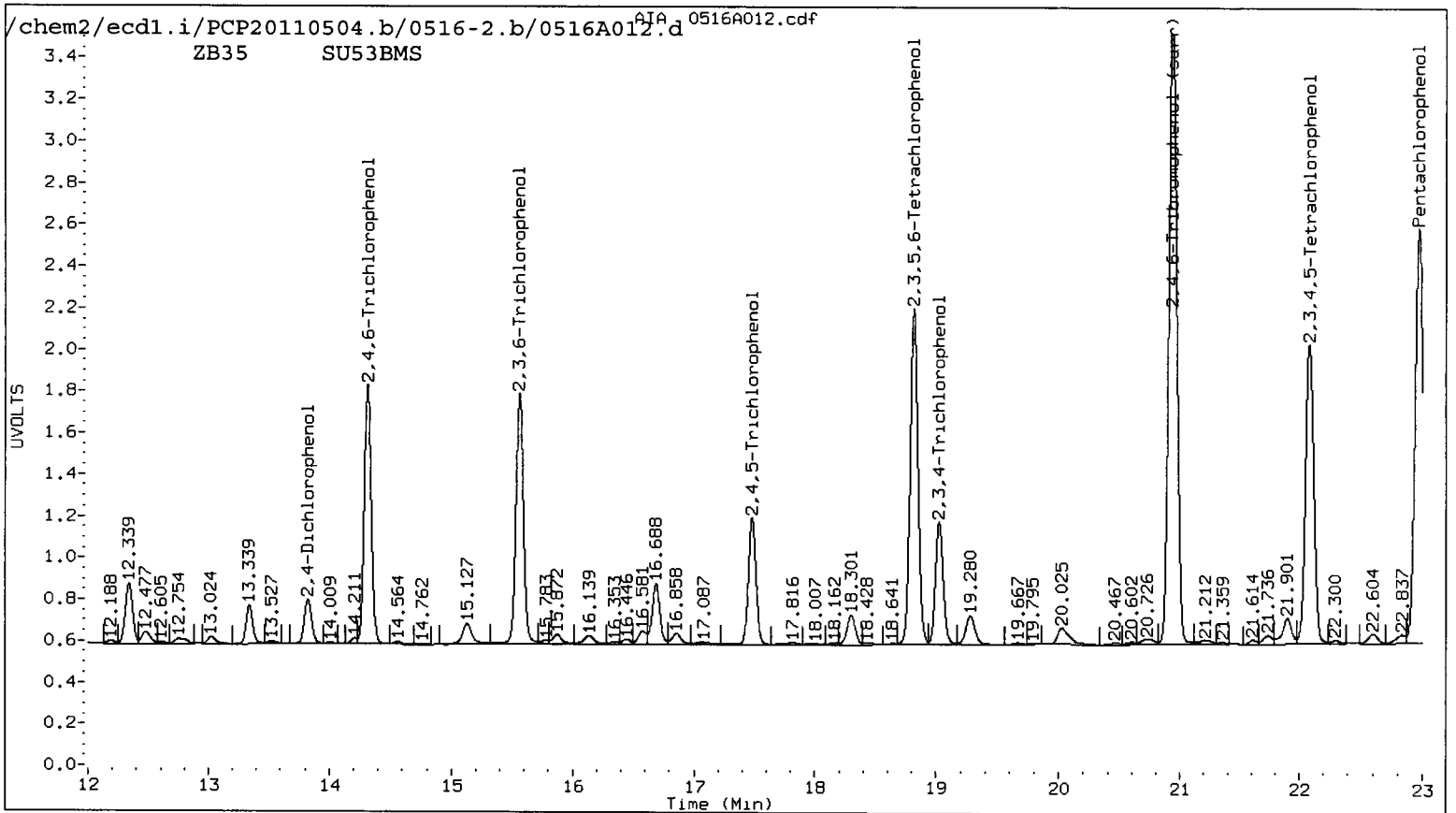
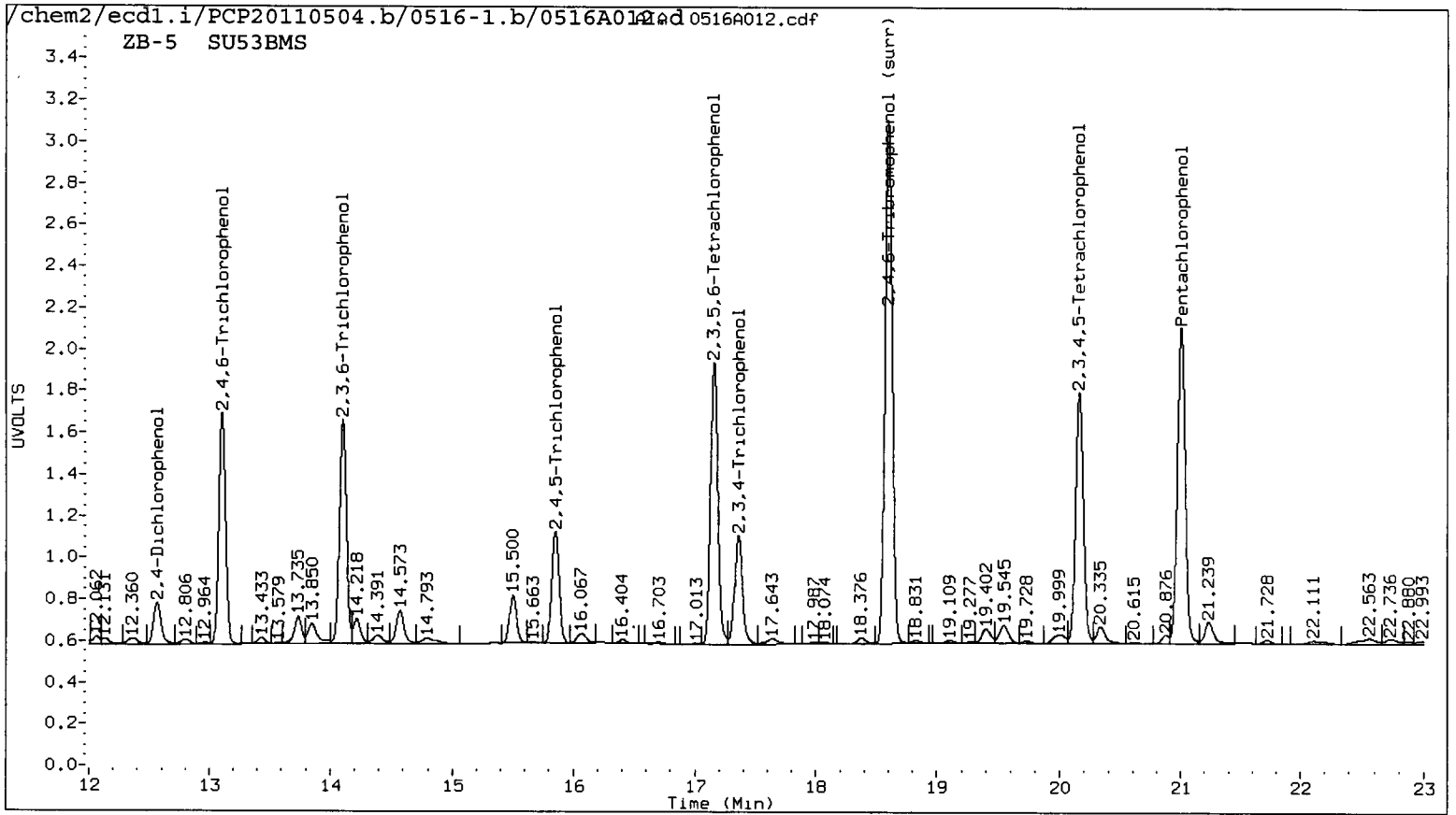
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

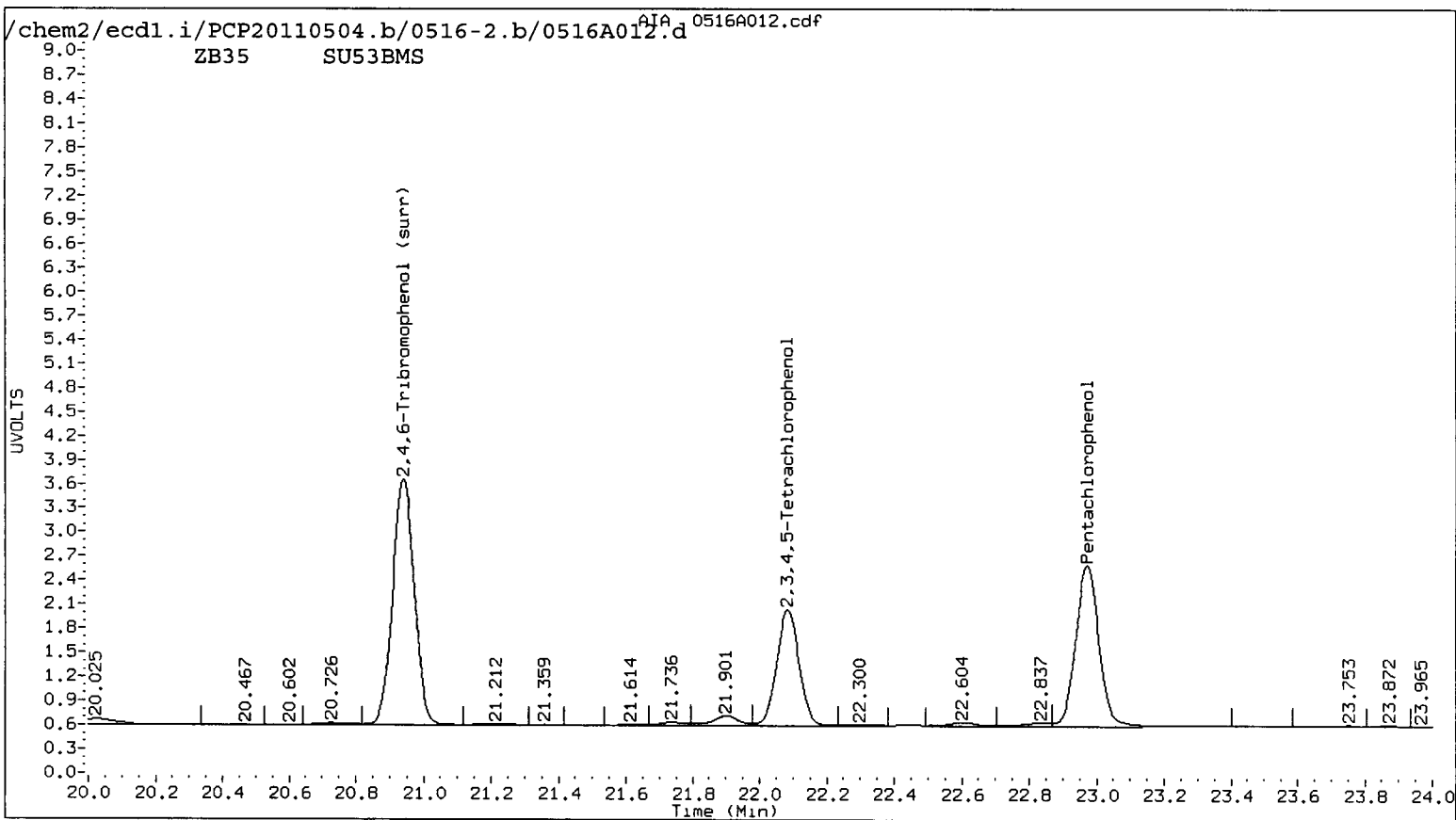
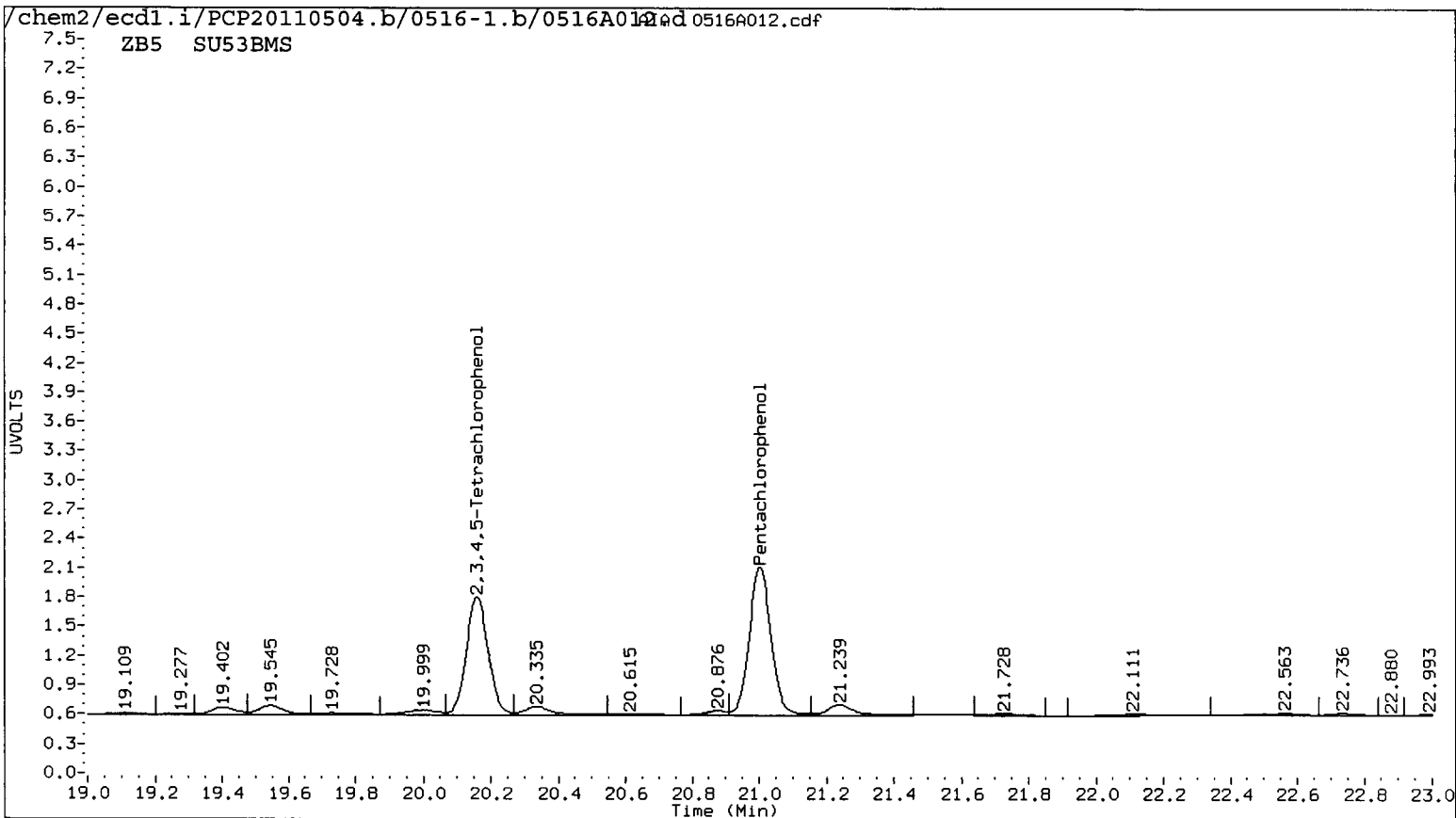
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 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A012.d Client ID: MW15042811 MS
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 18:37
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | ZB35 Col | | ZB-5 | ZB35 | RPD | Compound |
|----------|----------------|----------|----------------|---------|---------|-----|-----------------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 21.002 | 0.005 341784 | 22.972 | 0.005 475761 | 16.9627 | 16.8944 | 0.4 | Pentachlorophenol |
| 13.105 | 0.004 218292 | 14.315 | 0.004 254514 | 17.9328 | 17.5603 | 2.1 | 2,4,6-Trichlorophenol |
| 14.101 | 0.004 218366 | 15.562 | 0.005 265409 | 19.0669 | 18.4653 | 3.2 | 2,3,6-Trichlorophenol |
| 15.850 | 0.005 113816 | 17.479 | 0.005 137092 | 16.4032 | 16.9340 | 3.2 | 2,4,5-Trichlorophenol |
| 17.357 | 0.005 118034 | 19.027 | 0.004 134244 | 14.1268 | 13.8845 | 1.7 | 2,3,4-Trichlorophenol |
| 17.157 | 0.004 287593 | 18.818 | 0.004 361154 | 17.0106 | 16.4625 | 3.3 | 2,3,5,6-Tetrachlorophenol |
| 20.160 | 0.005 270870 | 22.084 | 0.004 334901 | 20.8655 | 21.6203 | 3.6 | 2,3,4,5-Tetrachlorophenol |
| 12.561 | 0.006 43384 | 13.825 | 0.005 44834 | 56.8289 | 53.8633 | 5.4 | 2,4-Dichlorophenol |
| 18.600 | 0.005 531775 | 20.940 | 0.004 686825 | 33.8 | 32.7 | 3.3 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|------|------|
| Pentachlorophenol | 67.9 | 67.6 |
| 2,4,6-Trichlorophenol | 71.7 | 70.2 |
| 2,3,6-Trichlorophenol | 76.3 | 73.9 |
| 2,4,5-Trichlorophenol | 65.6 | 67.7 |
| 2,3,4-Trichlorophenol | 56.5 | 55.5 |
| 2,3,5,6-Tetrachlorophenol | 68.0 | 65.9 |
| 2,3,4,5-Tetrachlorophenol | 83.5 | 86.5 |
| 2,4-Dichlorophenol | 22.7 | 21.5 |
| 2,4,6-TBP (surr) | 67.6 | 65.3 |





Data File: /chem2/ecd1.i/PCF20110504.b/0516-1.b/0516A012.d

Date : 16-MAY-2011 18:37

Client ID: MM15042811 MS

Sample Info: SU53BMS

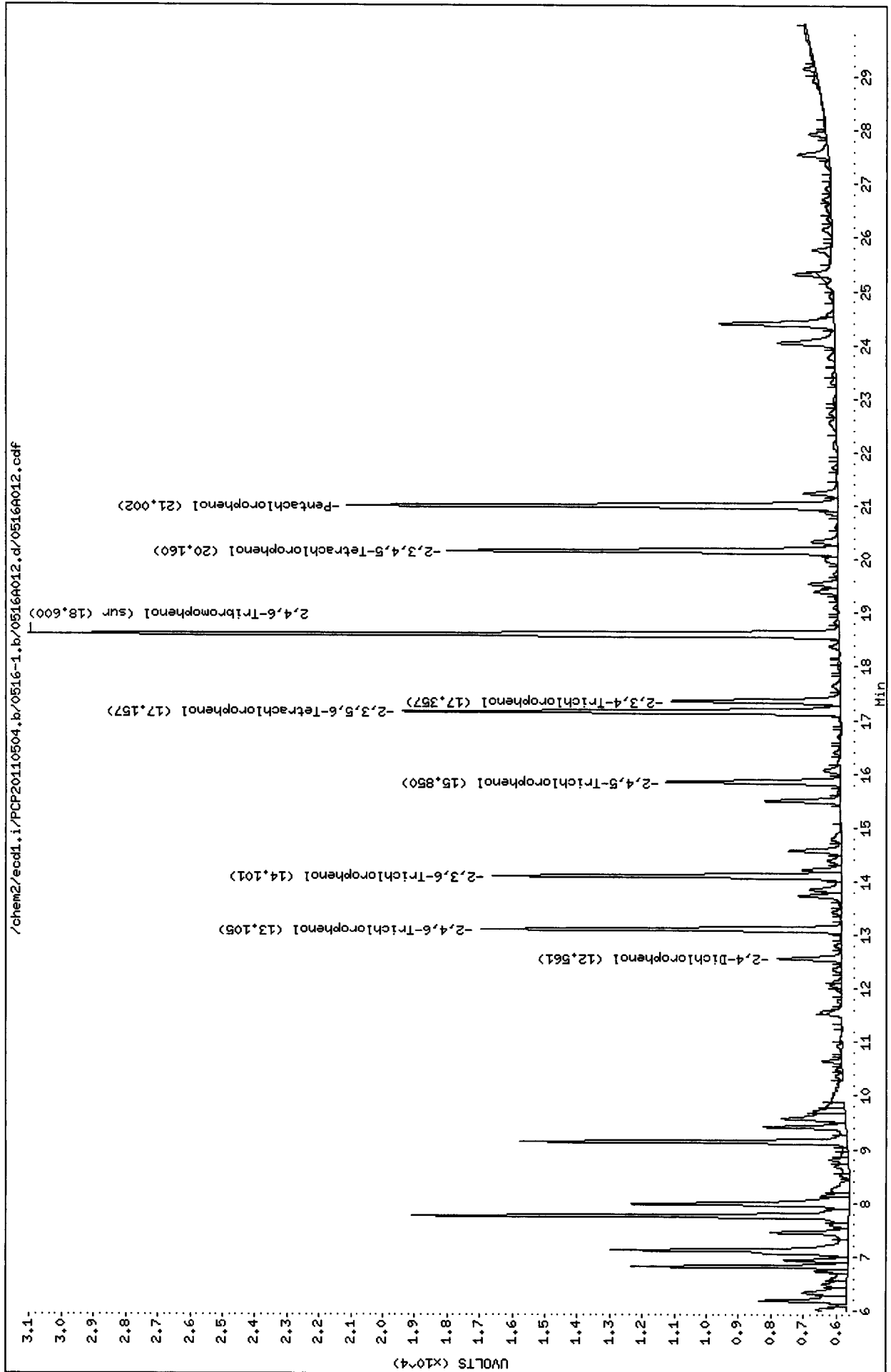
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A012.d

Date : 16-MAY-2011 18:37

Client ID: MM15042811 MS

Sample Info: SU53BMS

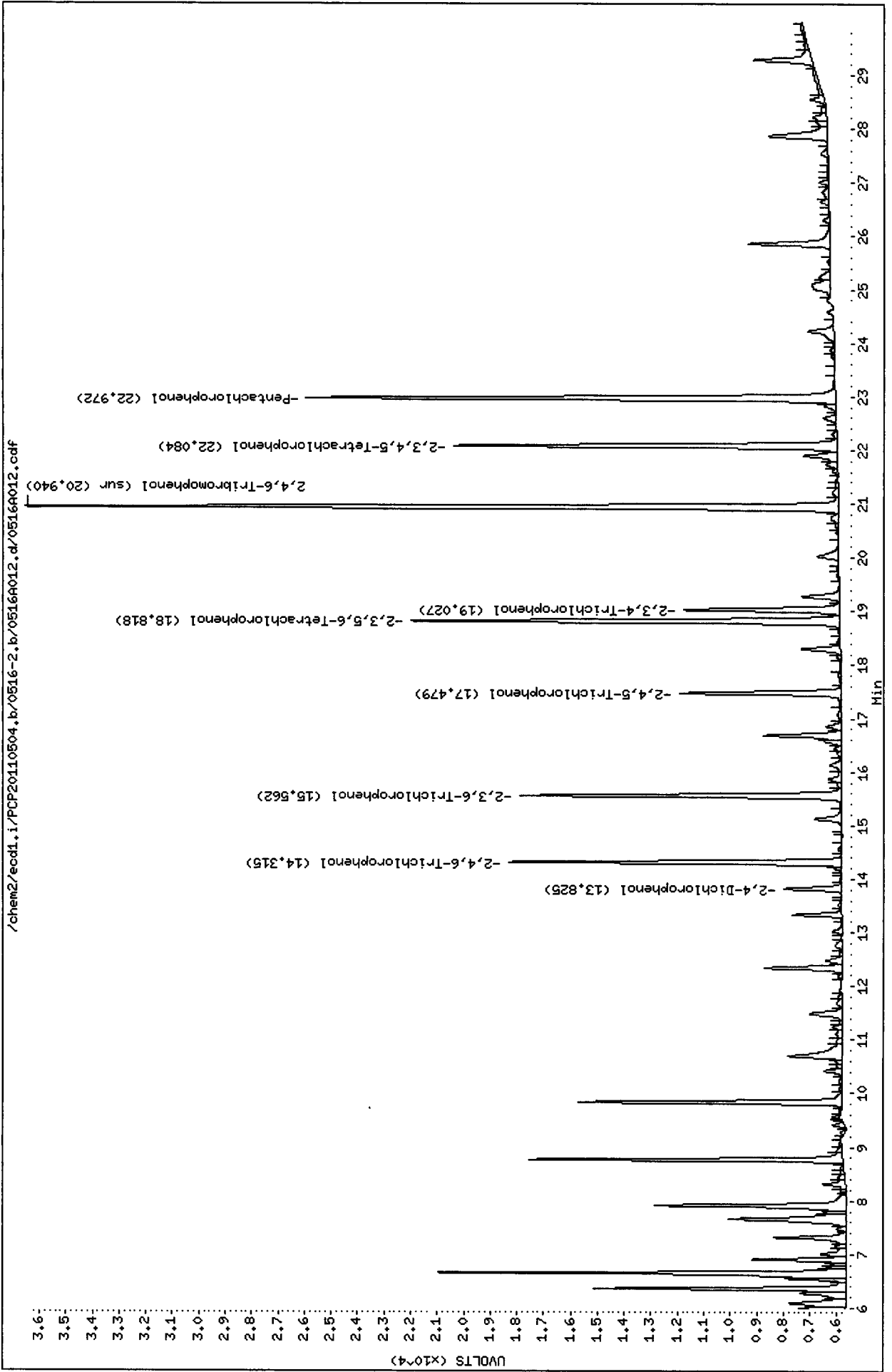
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.1

Operator: ar

Column diameter: 0.53



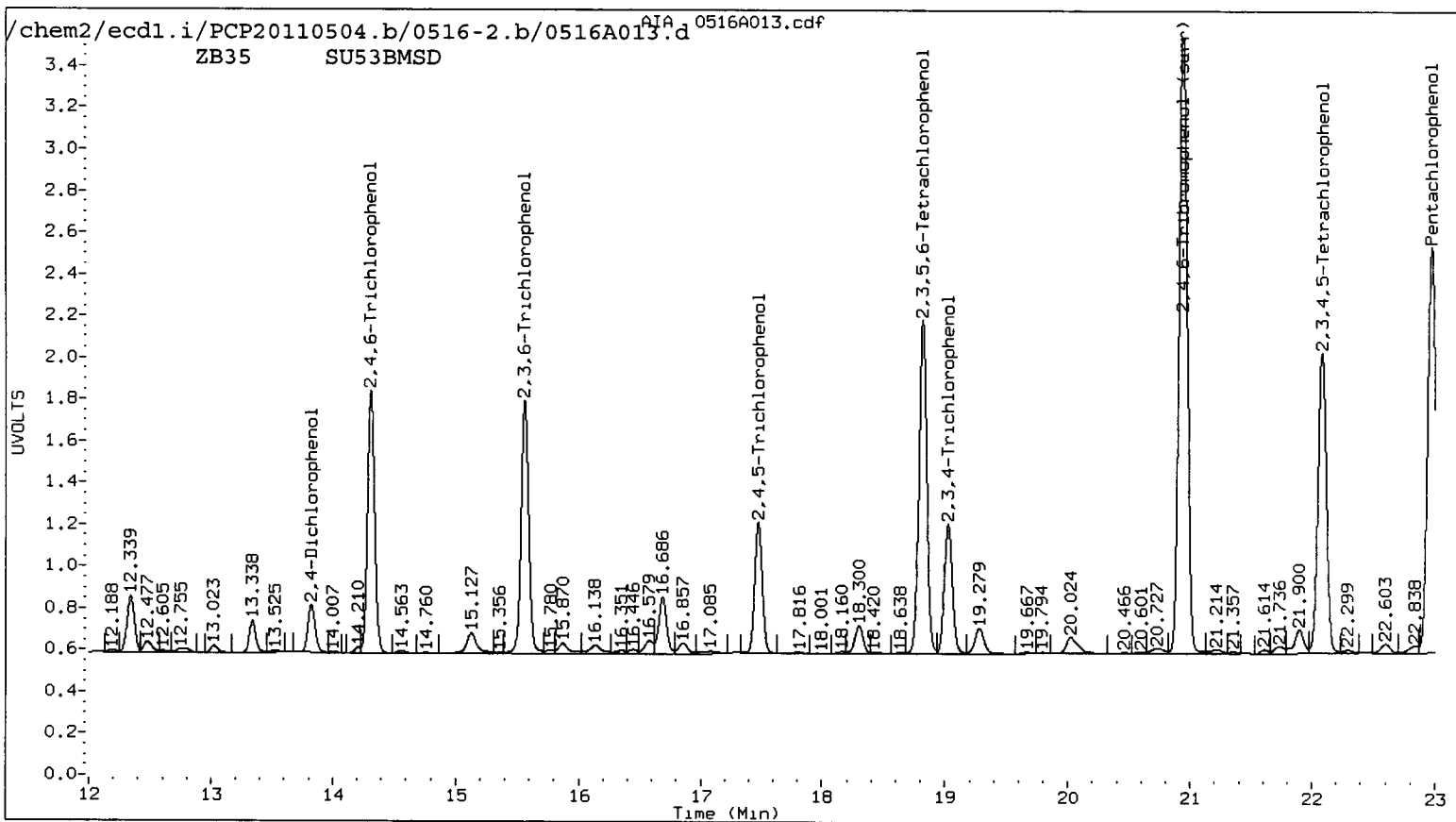
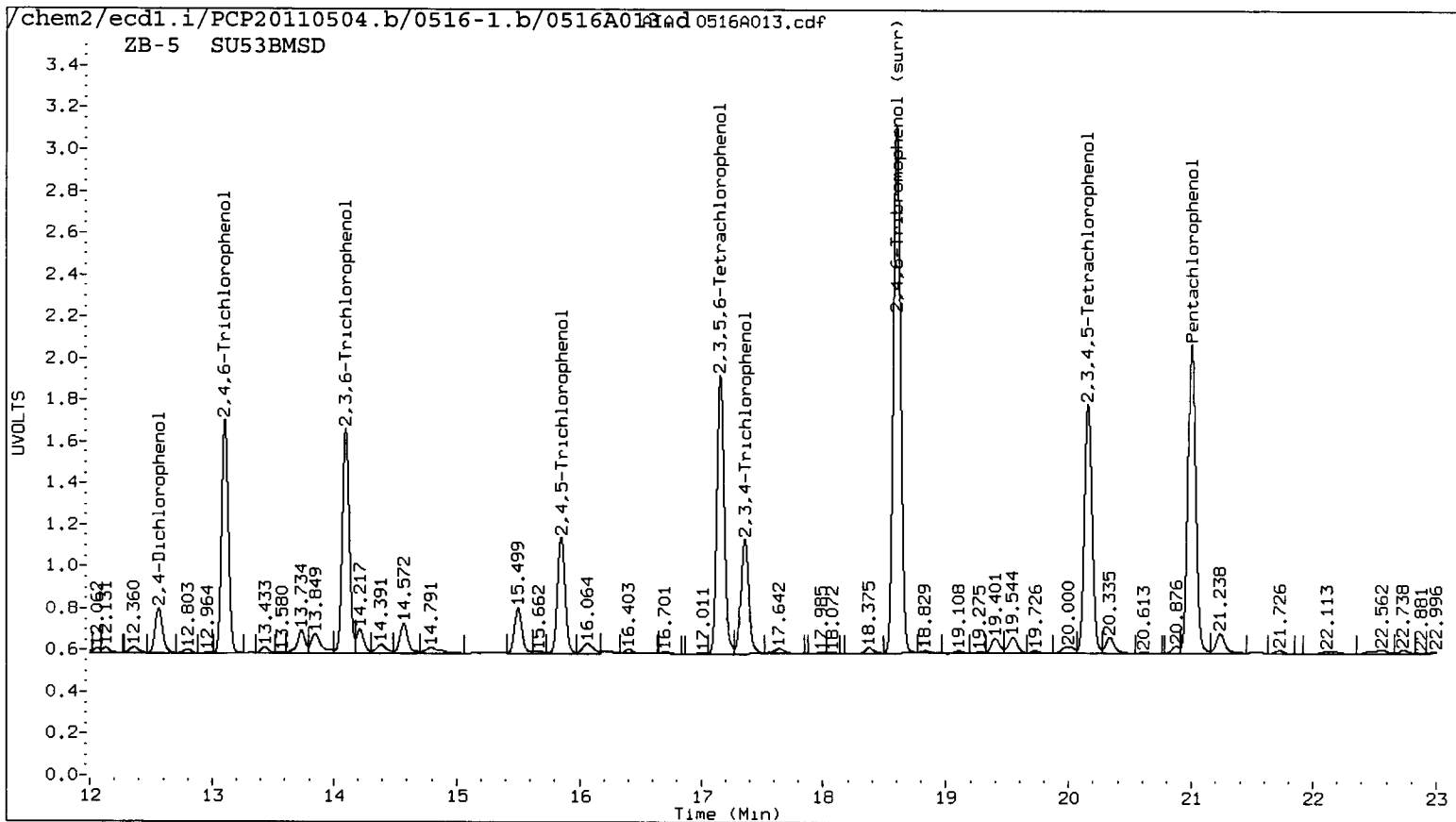
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

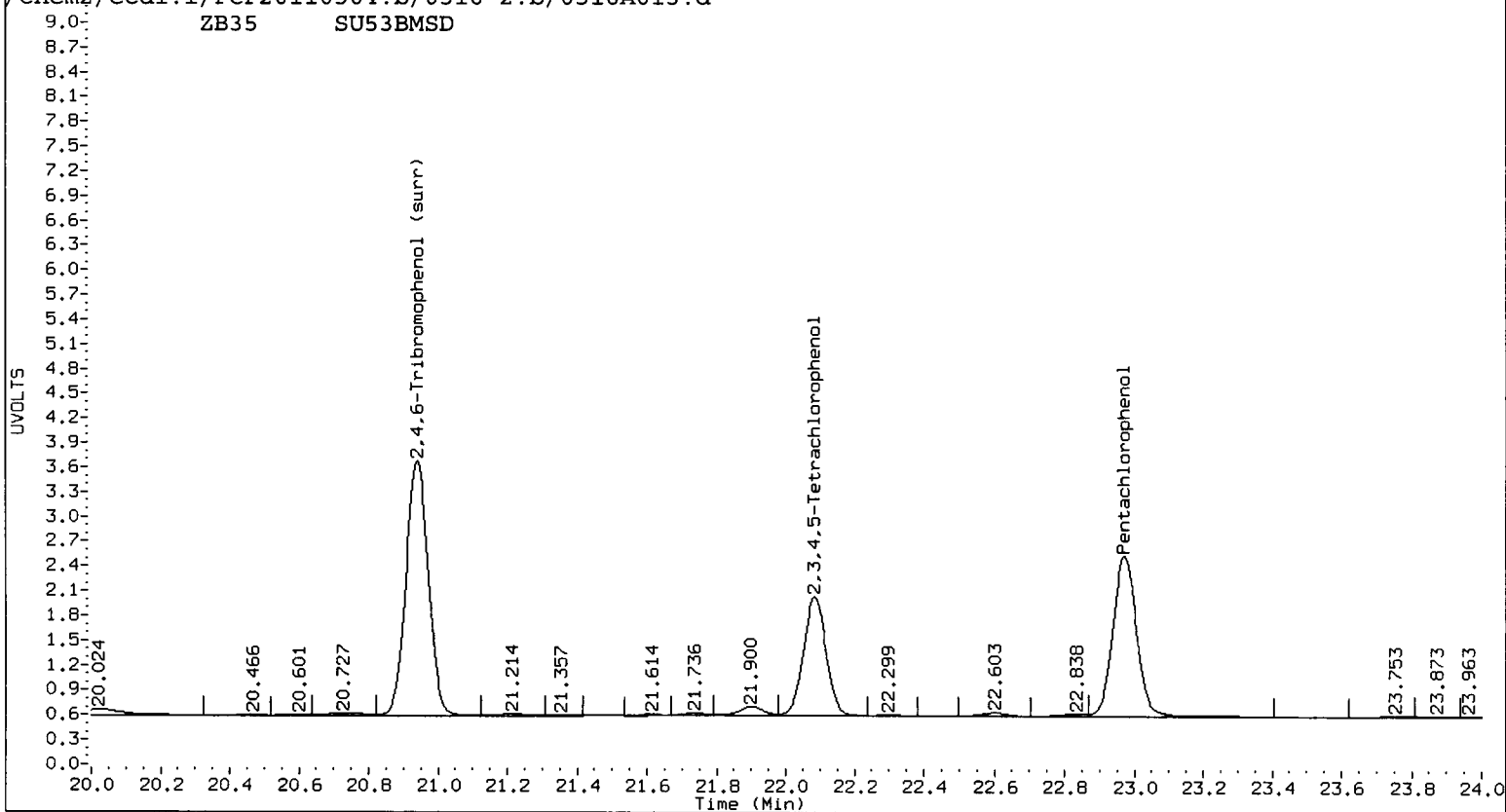
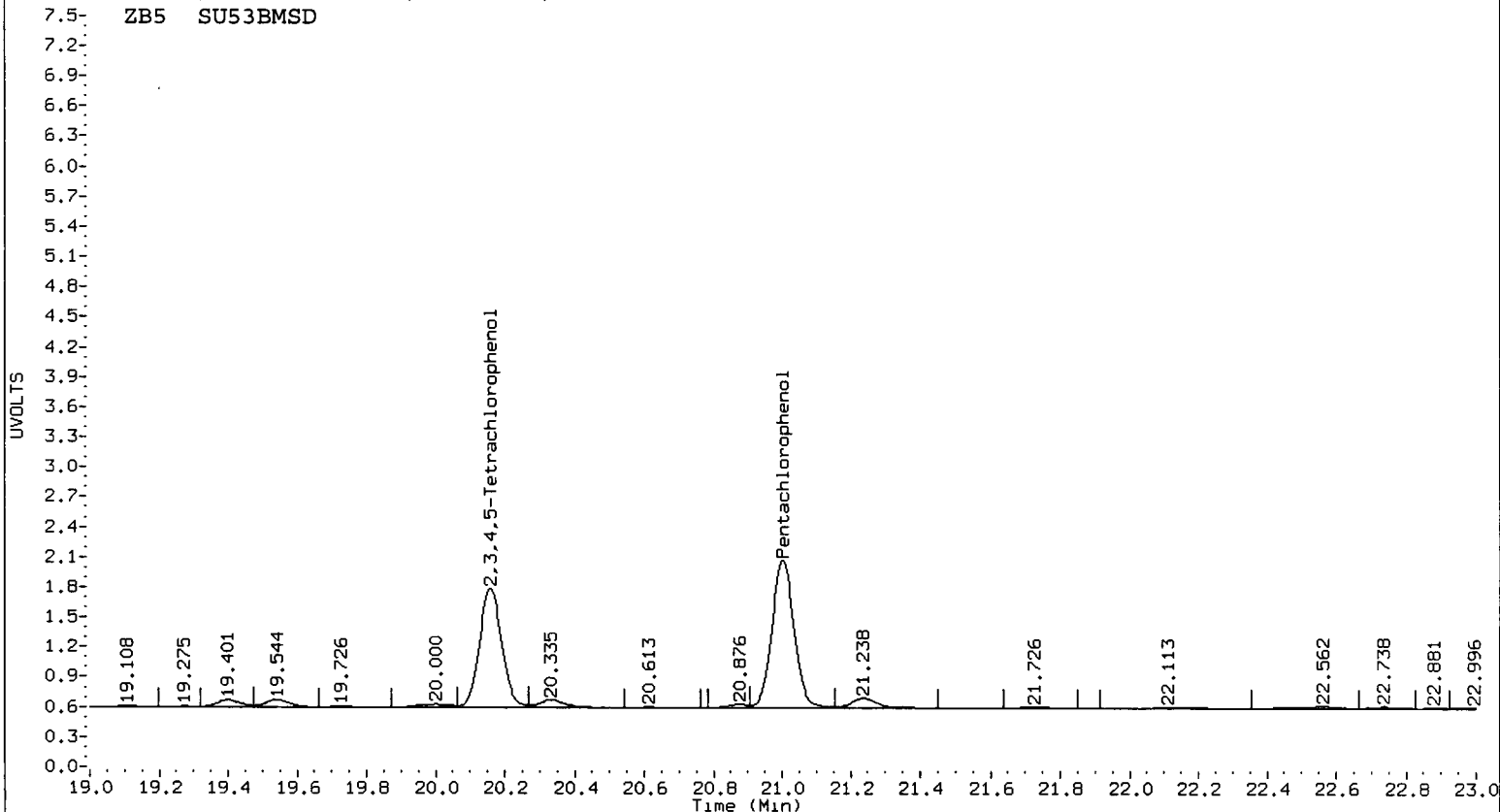
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A013.d ARI ID: SU53BMSD
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A013.d Client ID: MW15042811 MSD
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 19:14
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | ZB35 Col | | ZB-5 | ZB35 | RPD | Compound |
|----------|----------------|----------|----------------|---------|-----------|-----|-----------------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 21.002 | 0.005 / 333163 | 22.972 | 0.005 / 464693 | 16.5348 | 16.5014 / | 0.2 | Pentachlorophenol |
| 13.104 | 0.003 219576 | 14.314 | 0.003 255632 | 18.0383 | 17.6374 | 2.2 | 2,4,6-Trichlorophenol |
| 14.100 | 0.003 218963 | 15.561 | 0.004 264103 | 19.1191 | 18.3745 | 4.0 | 2,3,6-Trichlorophenol |
| 15.849 | 0.004 118587 | 17.477 | 0.003 138450 | 17.1633 | 17.1017 | 0.4 | 2,4,5-Trichlorophenol |
| 17.356 | 0.004 123706 | 19.027 | 0.004 140899 | 14.8057 | 14.6304 | 1.2 | 2,3,4-Trichlorophenol |
| 17.156 | 0.004 284068 | 18.817 | 0.003 356655 | 16.8021 | 16.2574 | 3.3 | 2,3,5,6-Tetrachlorophenol |
| 20.159 | 0.004 268654 | 22.084 | 0.004 333661 | 20.6948 | 21.5326 | 4.0 | 2,3,4,5-Tetrachlorophenol |
| 12.561 | 0.006 / 45091 | 13.824 | 0.004 / 48235 | 59.2014 | 58.2305 | 1.7 | 2,4-Dichlorophenol |
| 18.599 | 0.004 533514 | 20.940 | 0.004 691309 | 33.9 | 32.9 | 3.0 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|------|--------|
| Pentachlorophenol | 66.1 | 66.0 / |
| 2,4,6-Trichlorophenol | 72.2 | 70.5 |
| 2,3,6-Trichlorophenol | 76.5 | 73.5 |
| 2,4,5-Trichlorophenol | 68.7 | 68.4 |
| 2,3,4-Trichlorophenol | 59.2 | 58.5 |
| 2,3,5,6-Tetrachlorophenol | 67.2 | 65.0 |
| 2,3,4,5-Tetrachlorophenol | 82.8 | 86.1 |
| 2,4-Dichlorophenol | 23.7 | 23.3 / |
| 2,4,6-TBP (surr) | 67.8 | 65.8 / |





Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A013.d

Date : 16-MAY-2011 19:14

Client ID: MW15042811 MSD

Sample Info: SU53BHSD

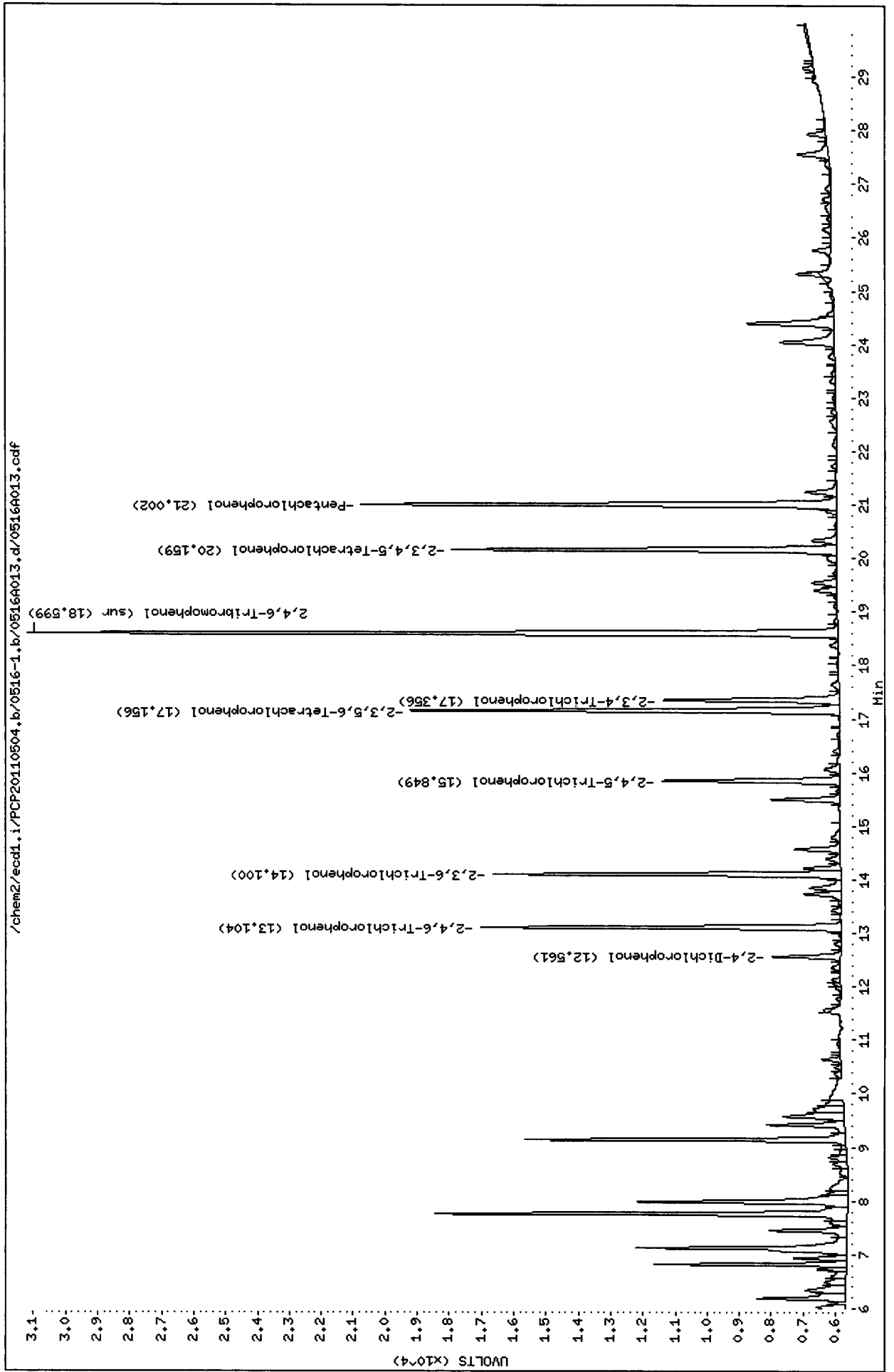
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A013.d

Date : 16-MAY-2011 19:14

Client ID: MM15042811 MSD

Sample Info: SU53BHSD

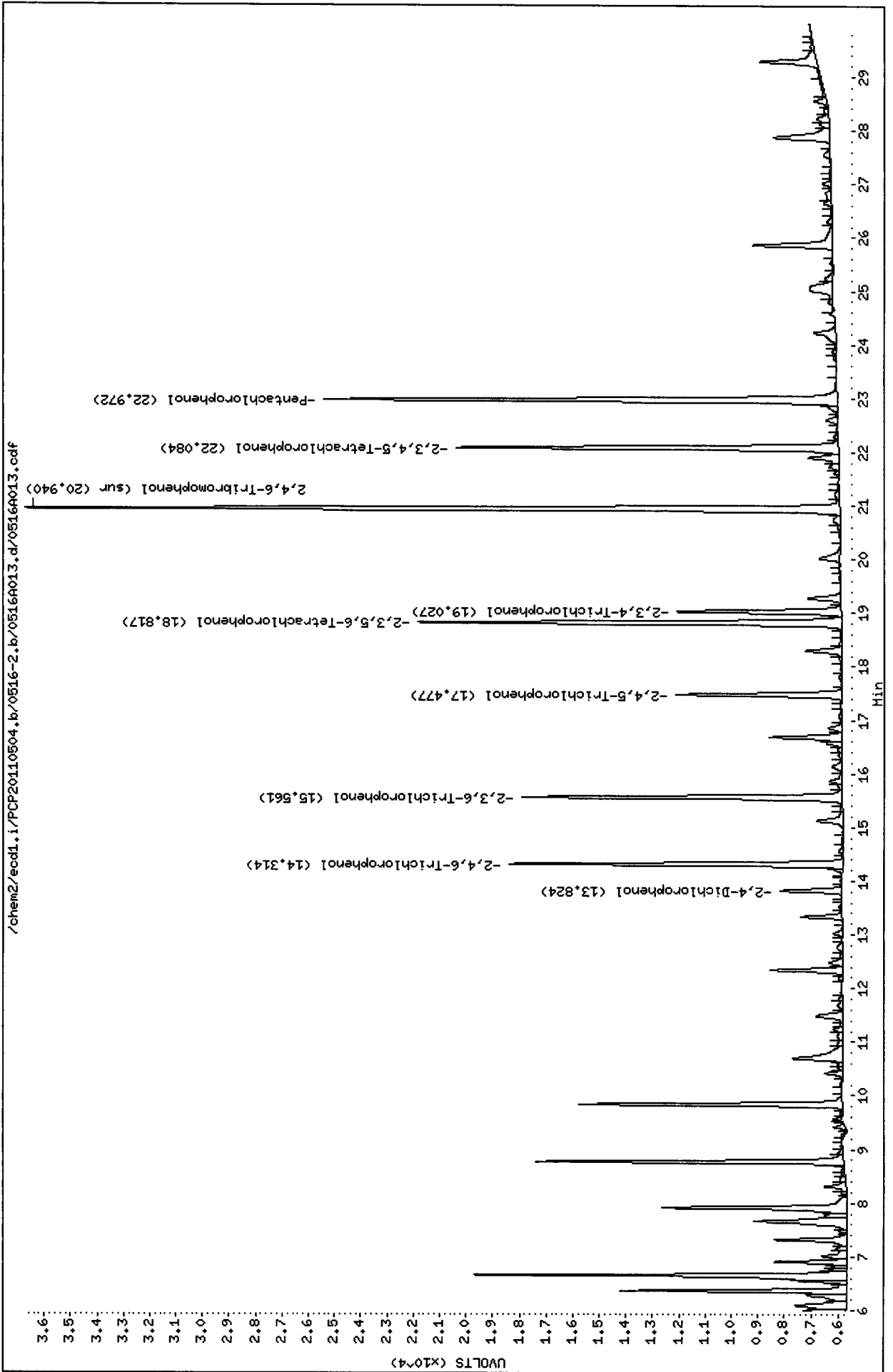
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



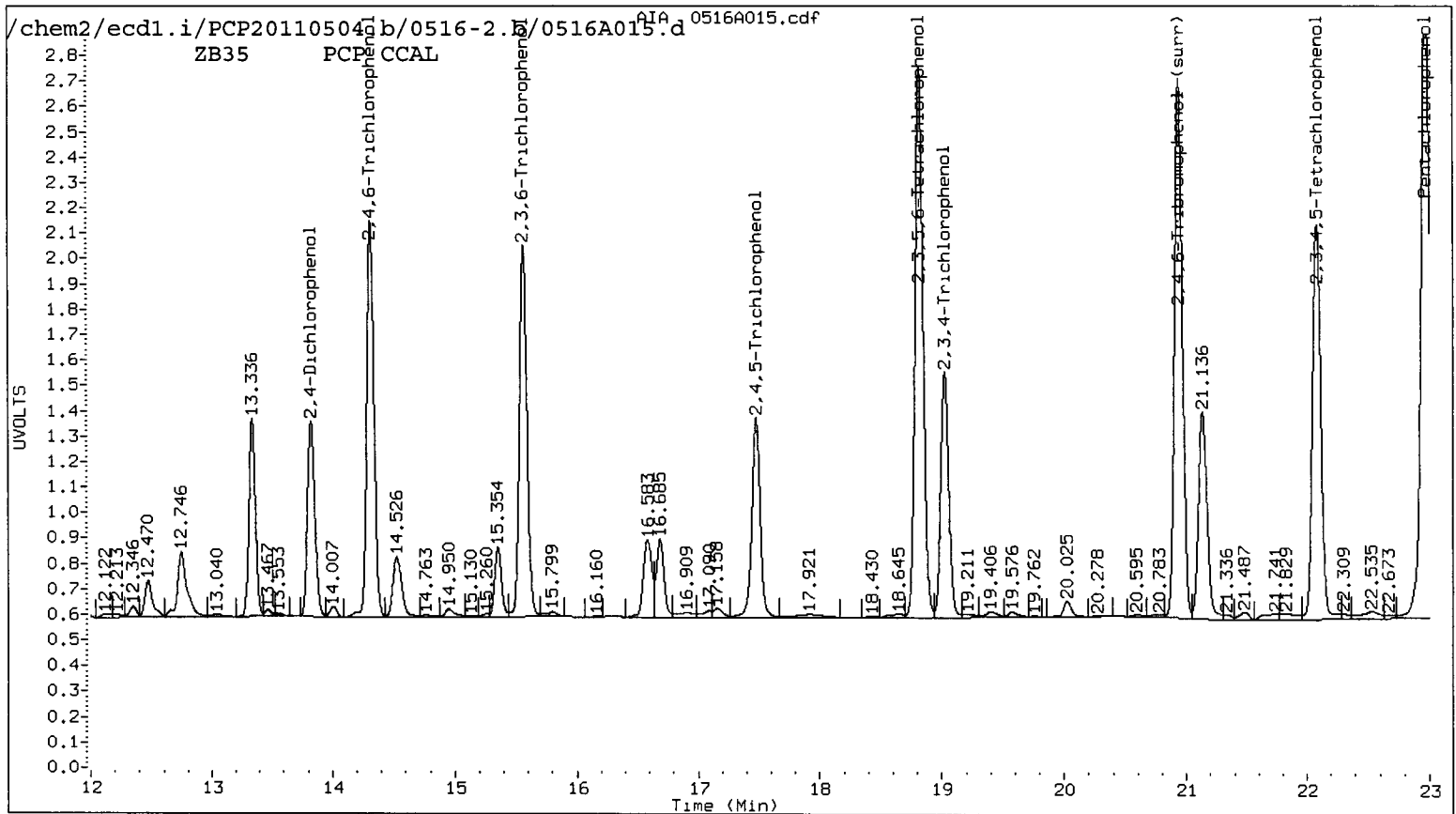
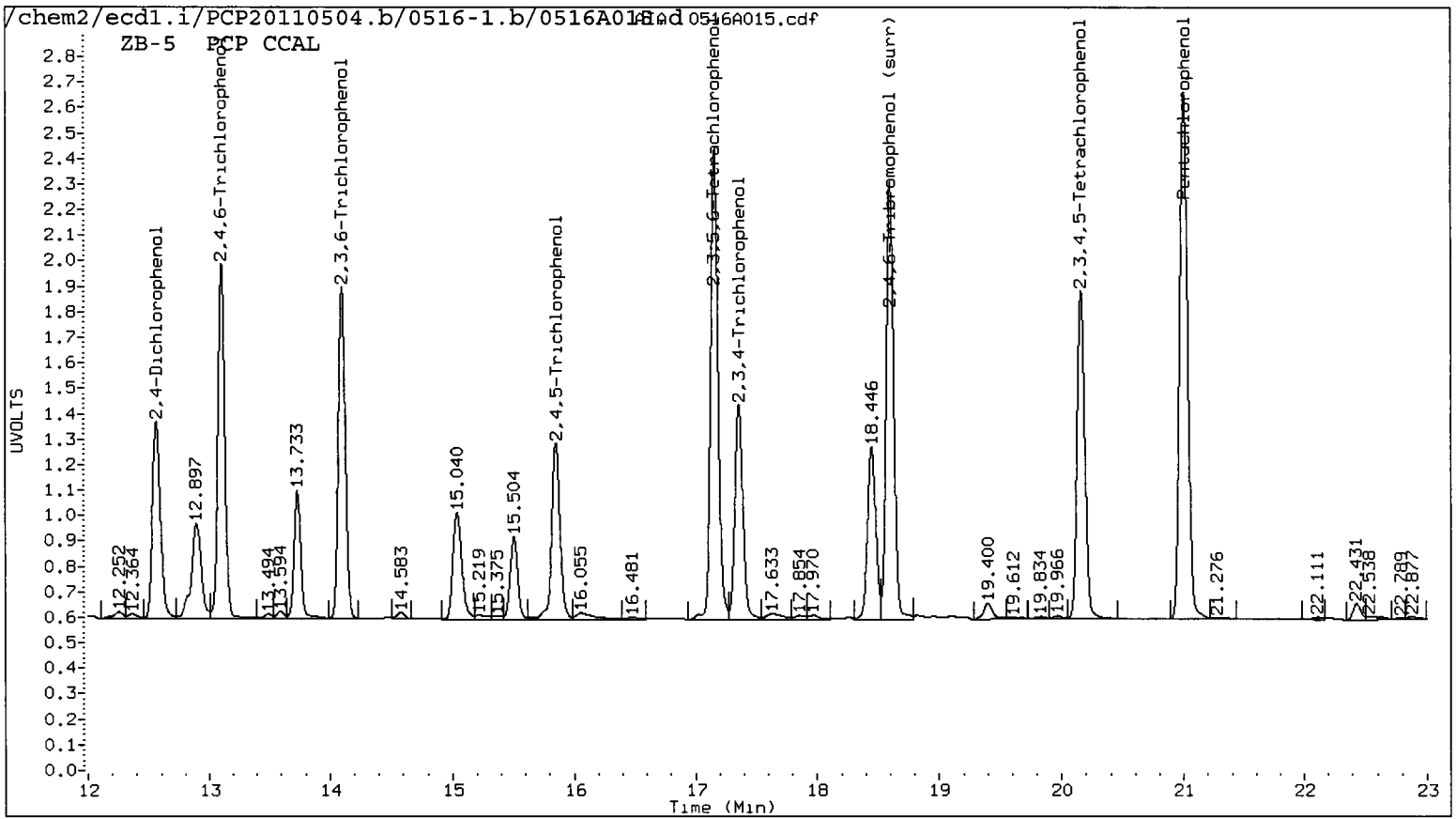
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A015.d ARI ID: PCP CCAL
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A015.d Client ID:
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 20:27
 Compound Sublist: all Report Date: 05/18/2011 09:24
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

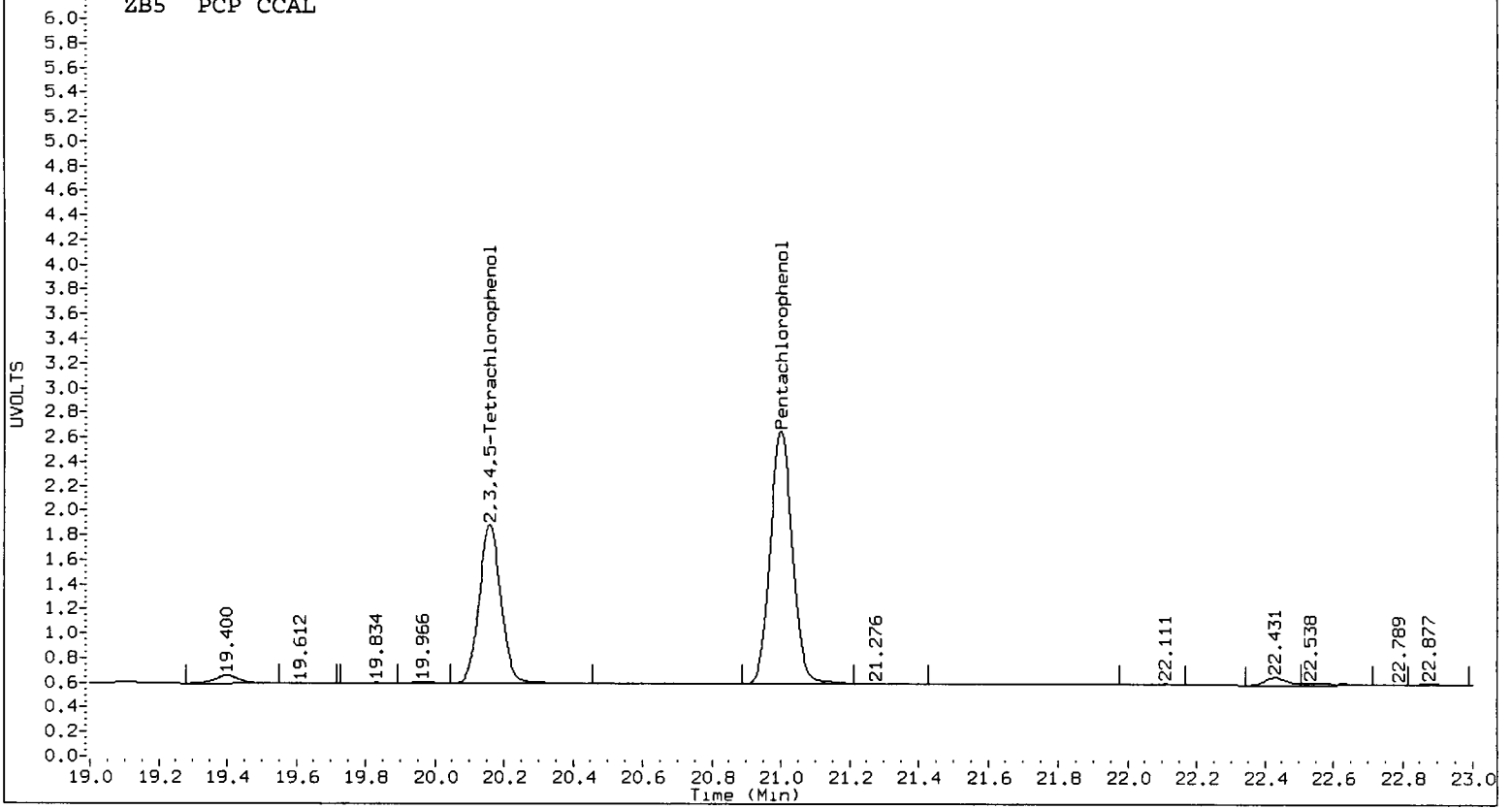
| ZB-5 Col | | ZB35 Col | | ZB-5 | ZB35 | RPD | Compound |
|----------|----------------|----------|----------------|----------|----------|------|-----------------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 21.002 | 0.004 464956 | 22.971 | 0.004 633900 | 23.0757 | 22.5100 | 2.5 | Pentachlorophenol |
| 13.104 | 0.003 280797 | 14.314 | 0.003 321014 | 23.0676 | 22.1485 | 4.1 | 2,4,6-Trichlorophenol |
| 14.100 | 0.003 259603 | 15.561 | 0.004 314088 | 22.6675 | 21.8521 | 3.7 | 2,3,6-Trichlorophenol |
| 15.848 | 0.003 160920 | 17.477 | 0.003 190167 | 24.1643 | 23.4901 | 2.8 | 2,4,5-Trichlorophenol |
| 17.355 | 0.004 192114 | 19.026 | 0.003 221045 | 22.9930 | 24.0399 | 4.5 | 2,3,4-Trichlorophenol |
| 17.156 | 0.004 397651 | 18.817 | 0.003 483981 | 23.5204 | 22.0613 | 6.4 | 2,3,5,6-Tetrachlorophenol |
| 20.159 | 0.004 287562 | 22.084 | 0.004 366084 | 22.1512 | 23.8447 | 7.4 | 2,3,4,5-Tetrachlorophenol |
| 12.561 | 0.006 174700 | 13.823 | 0.003 164617 | 269.4803 | 231.5887 | 15.1 | 2,4-Dichlorophenol |
| 18.599 | 0.004 371476 | 20.940 | 0.004 469532 | 23.6 | 22.3 | 5.5 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

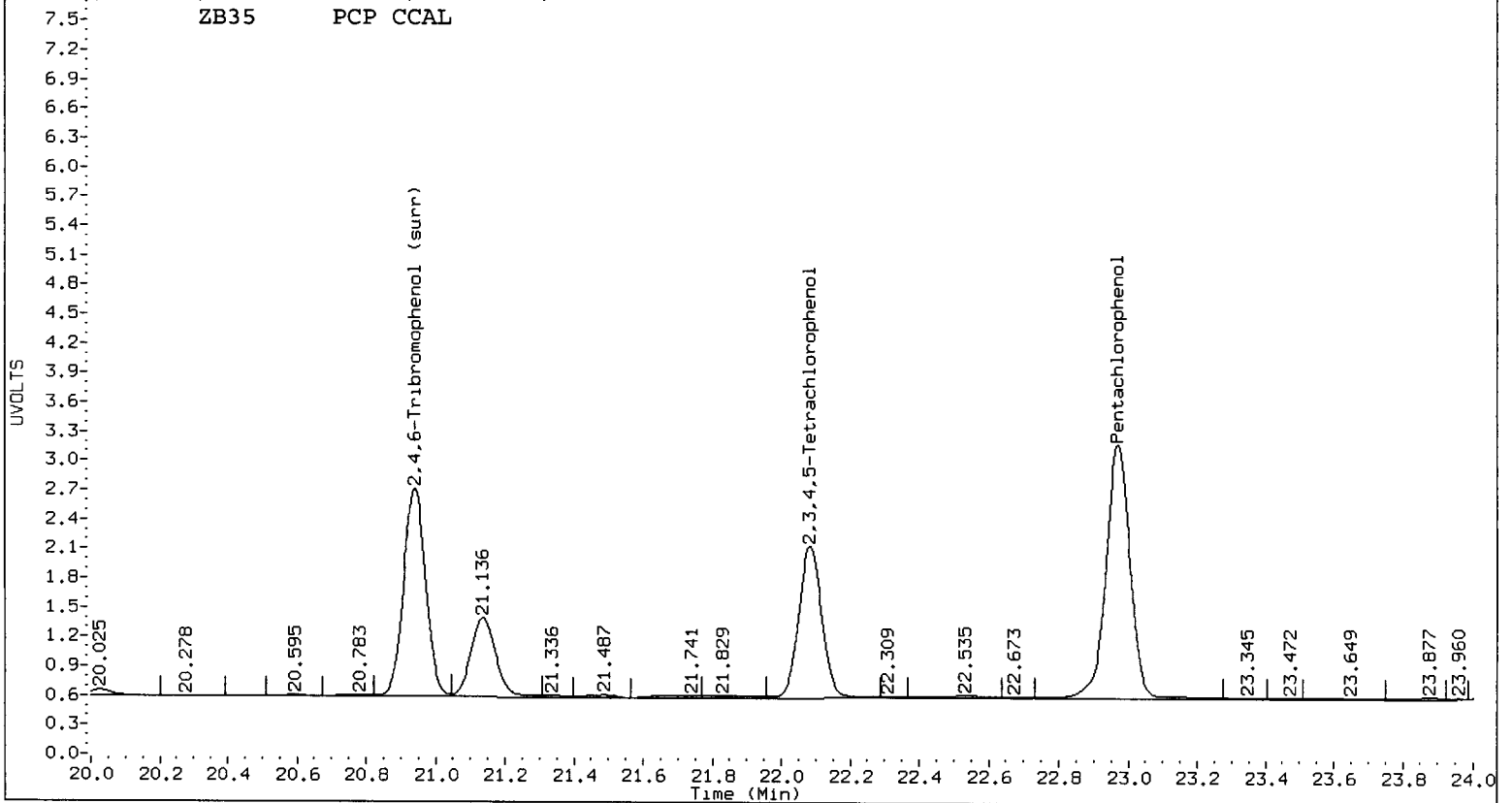
| COMPOUND | Col1 | Col2 |
|---------------------------|-------|------|
| Pentachlorophenol | 92.3 | 90.0 |
| 2,4,6-Trichlorophenol | 92.3 | 88.6 |
| 2,3,6-Trichlorophenol | 90.7 | 87.4 |
| 2,4,5-Trichlorophenol | 96.7 | 94.0 |
| 2,3,4-Trichlorophenol | 92.0 | 96.2 |
| 2,3,5,6-Tetrachlorophenol | 94.1 | 88.2 |
| 2,3,4,5-Tetrachlorophenol | 88.6 | 95.4 |
| 2,4-Dichlorophenol | 107.8 | 92.6 |
| 2,4,6-TBP (surr) | 94.4 | 89.3 |



ZB5 PCP CCAL



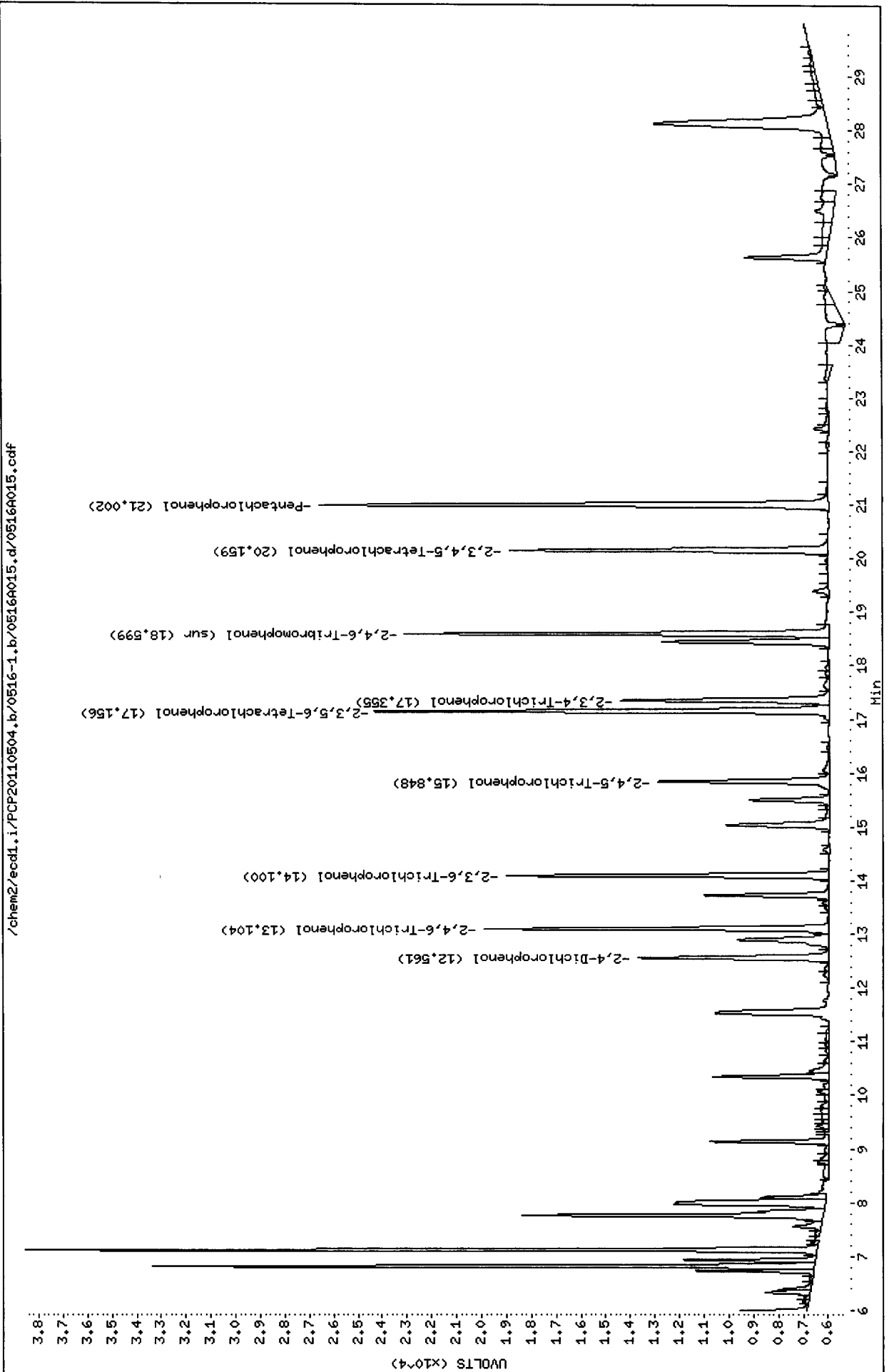
ZB35 PCP CCAL



Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A015.d
Date : 16-MAY-2011 20:27
Client ID:
Sample Info: PCP CCAL
Purge Volume: 500.0
Column phase: STX CLP1

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A015.d

Date : 16-MAY-2011 20:27

Client ID:

Sample Info: PCP CCAL

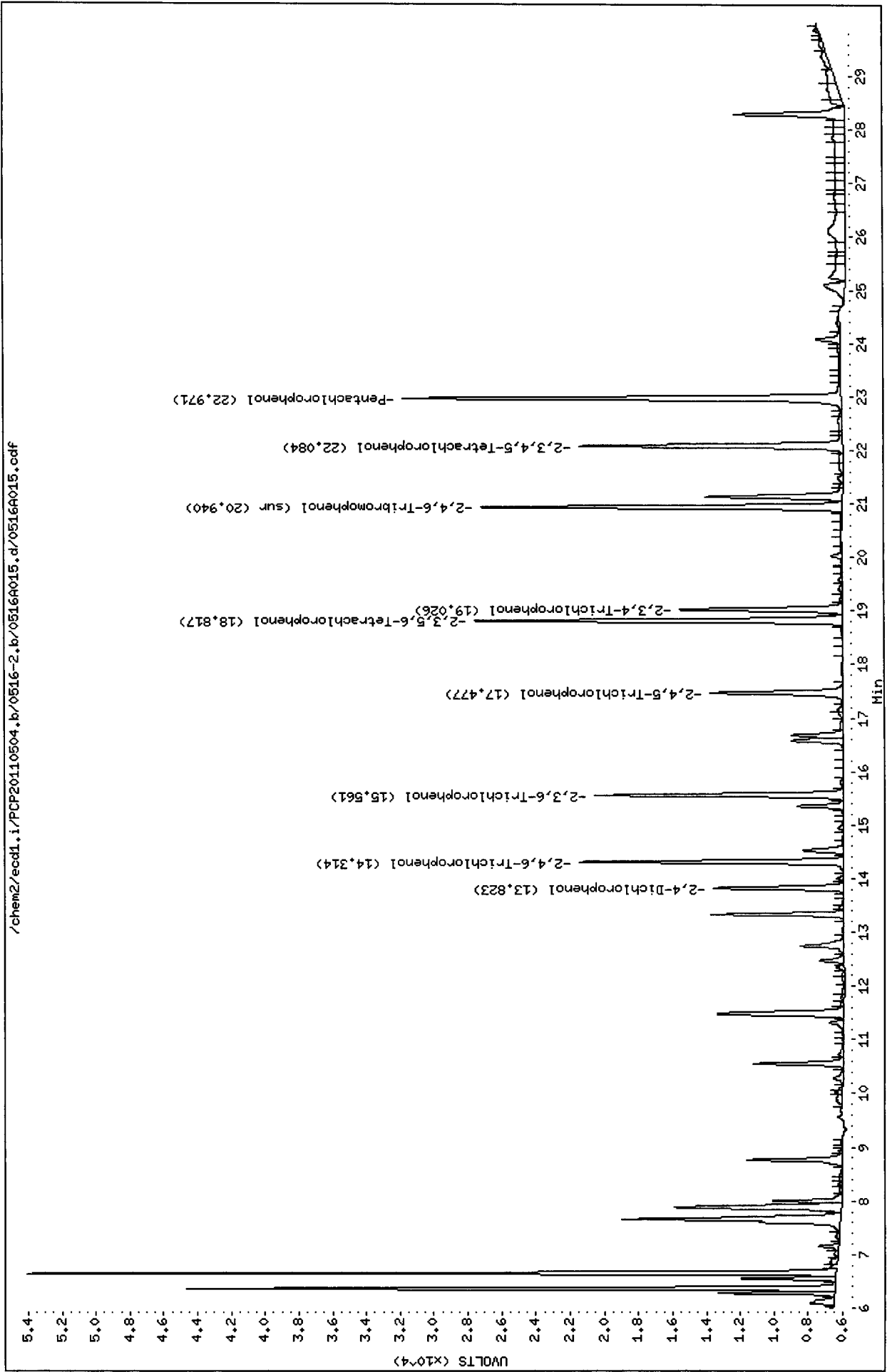
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53



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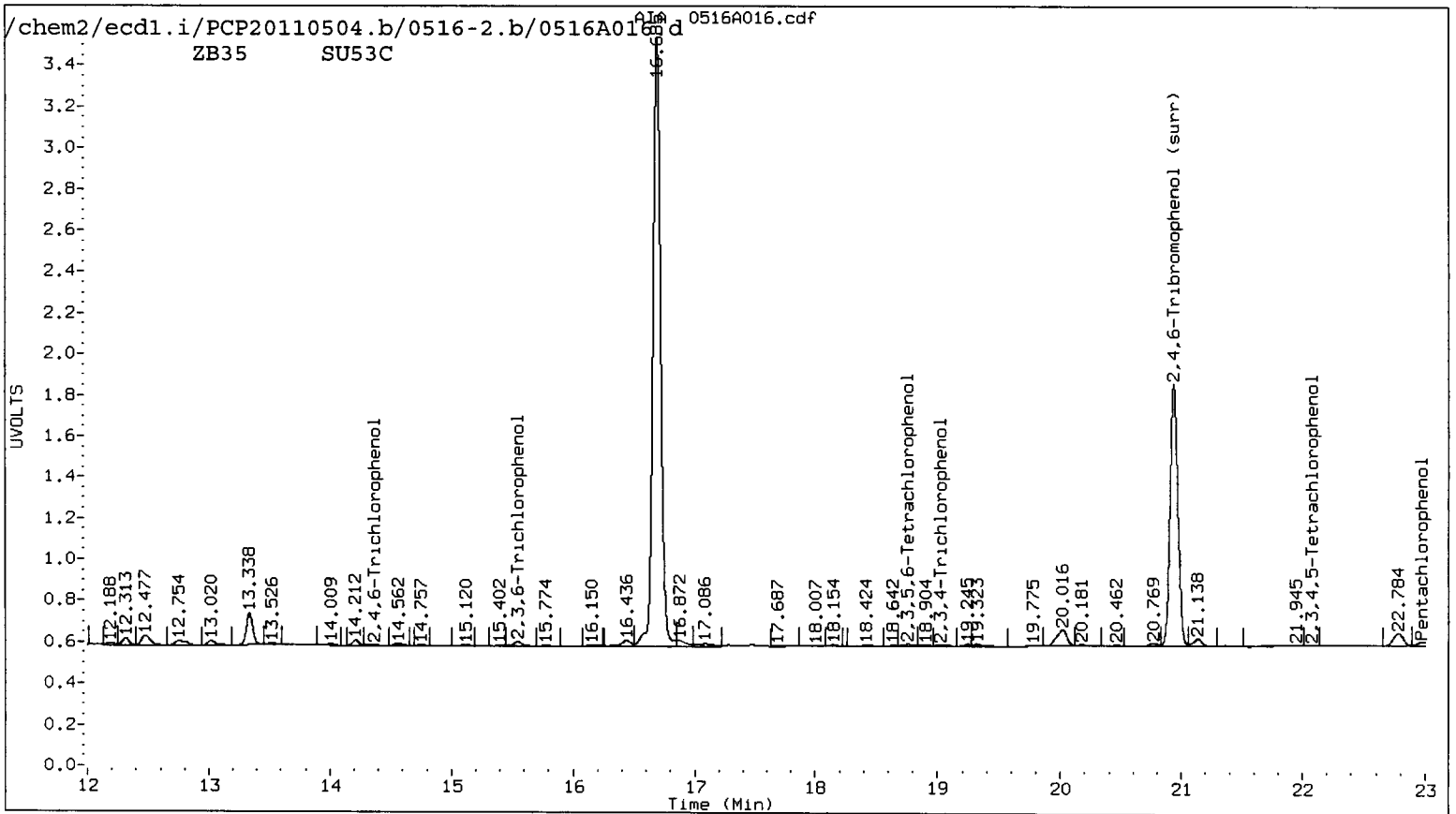
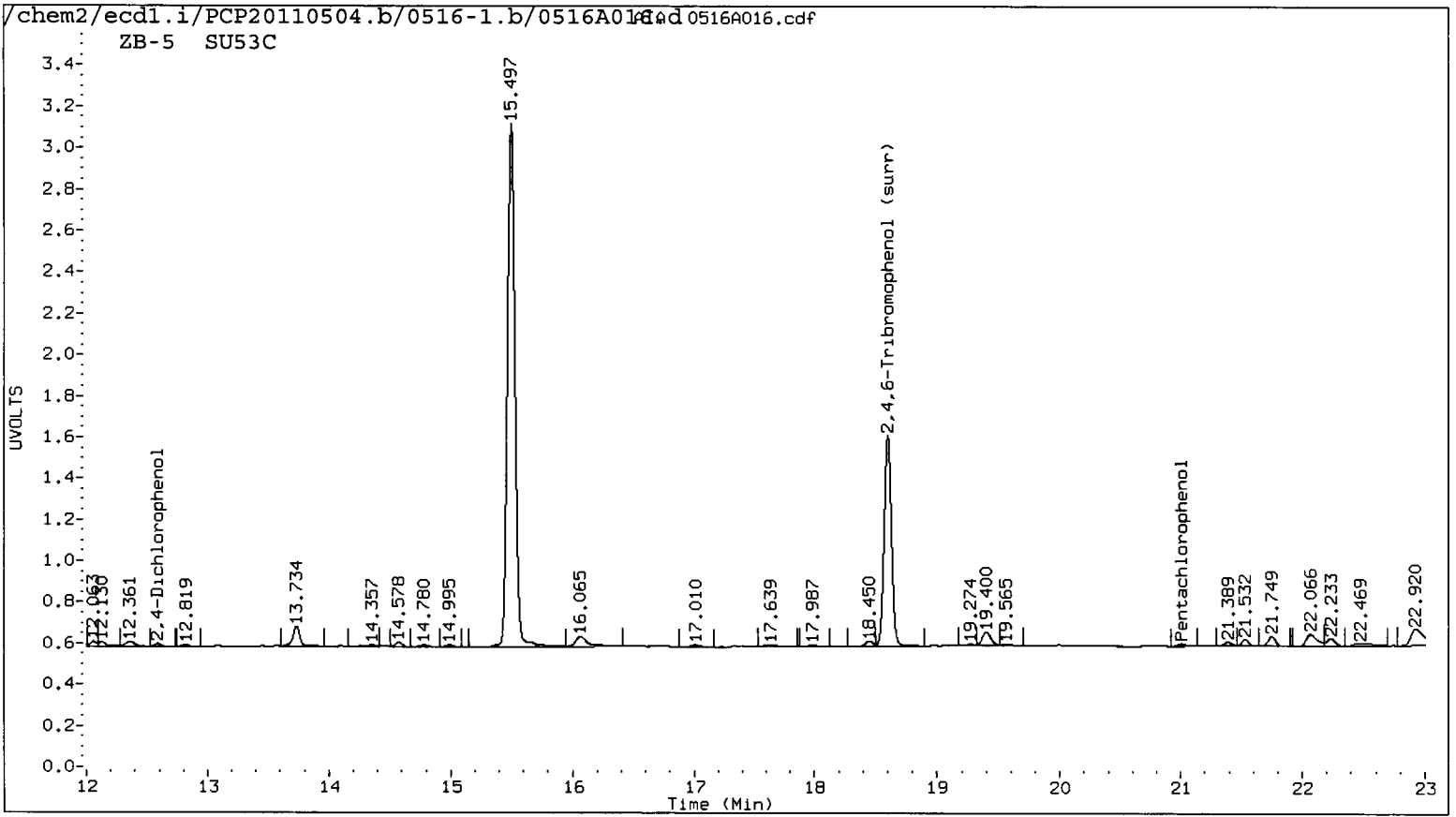
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

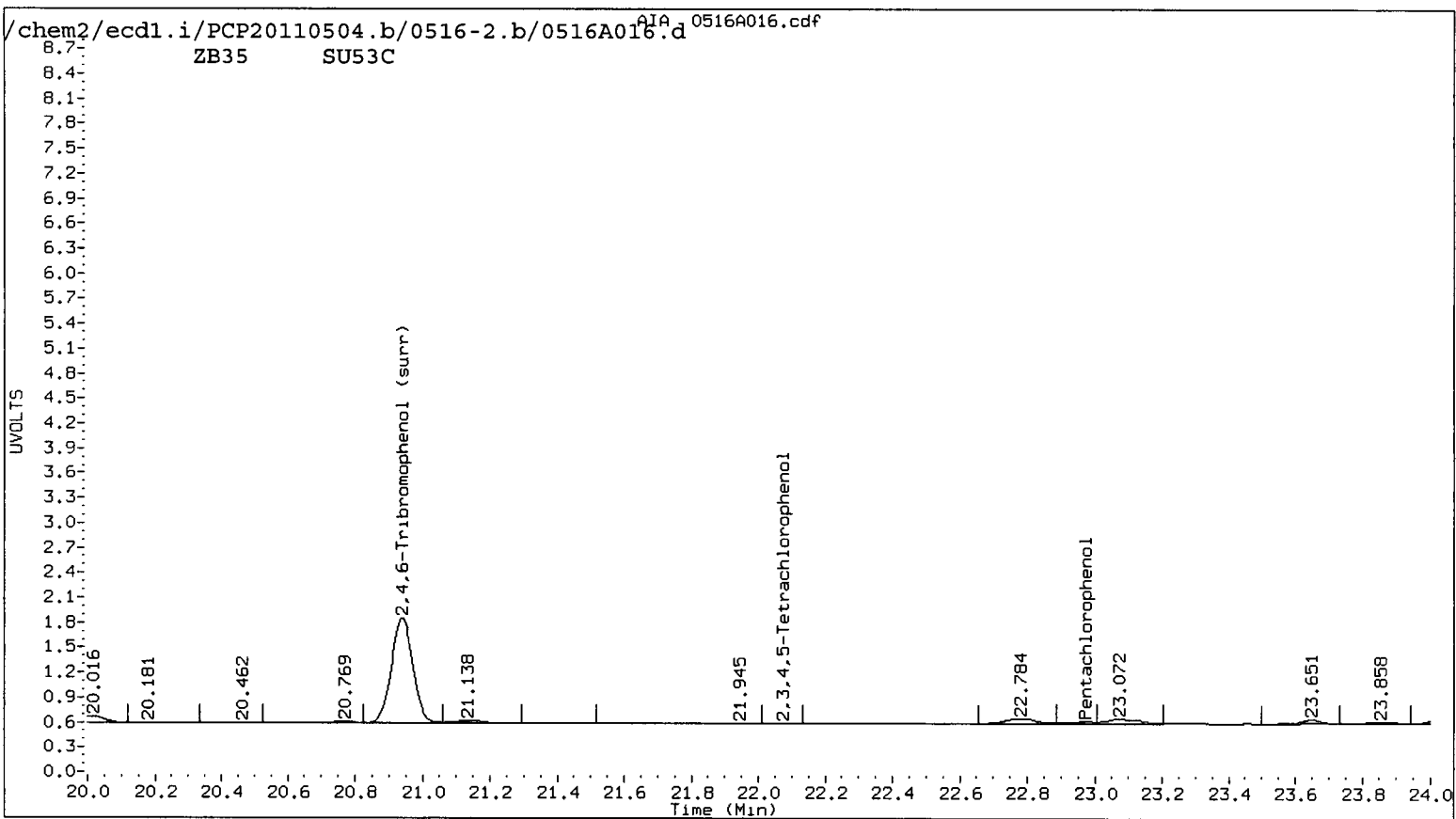
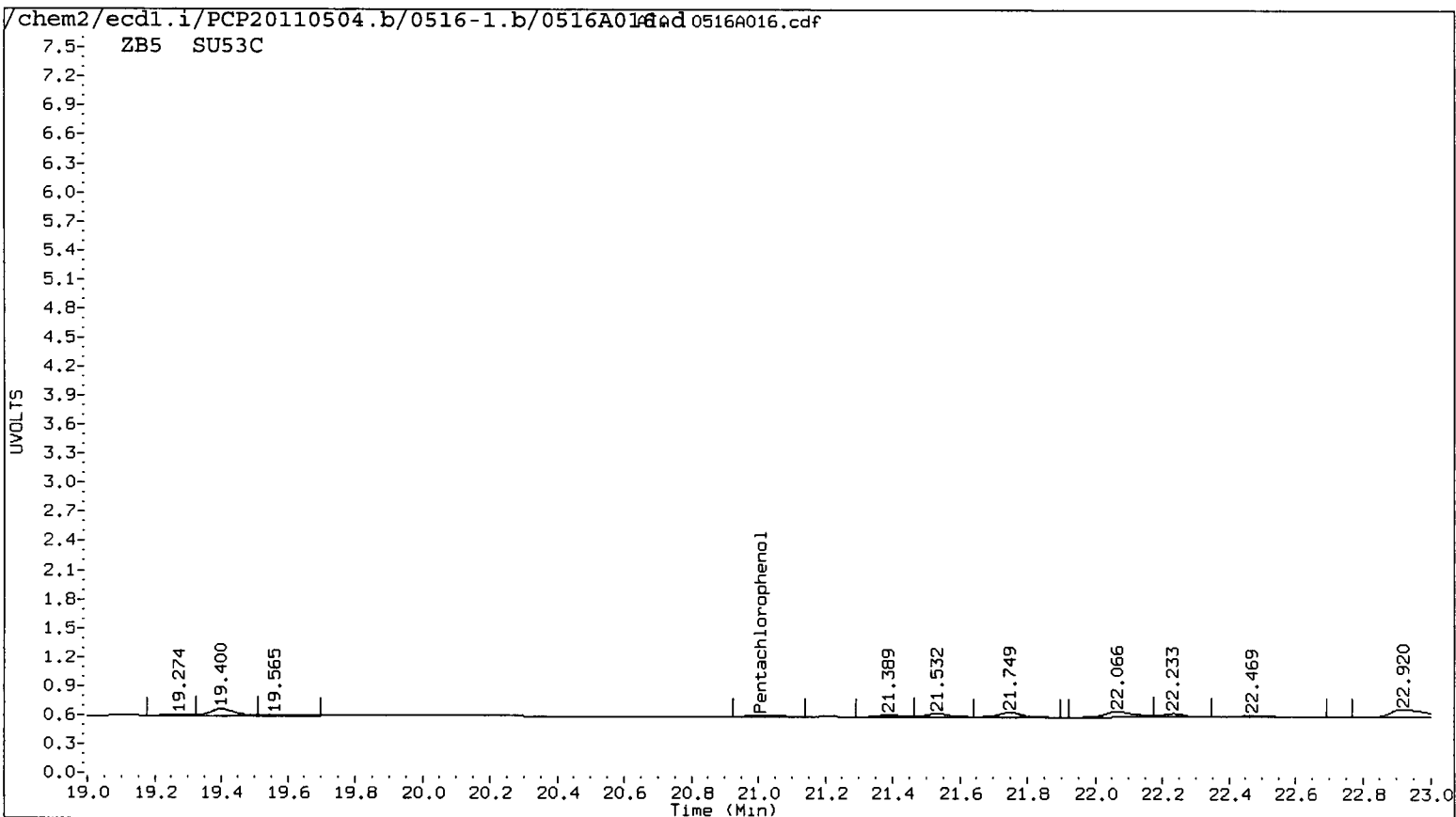
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A016.d ARI ID: SU53C
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A016.d Client ID: MW4042811
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 21:03
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|-------|----------|----------|--------|----------|--------|--------|-----|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 21.007 | 0.009 | 3085 | 22.973 | 0.006 | 4405 | 0.1531 | 0.1564 | 2.1 | Pentachlorophenol |
| ---- | | | 14.368 | 0.057 | 1292 | 0.0000 | 0.0892 | --- | 2,4,6-Trichlorophenol |
| ---- | | | 15.546 | -0.011 | 5062 | 0.0000 | 0.3522 | --- | 2,3,6-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| ---- | | | 19.027 | 0.005 | 1645 | 0.0000 | 0.1568 | --- | 2,3,4-Trichlorophenol |
| ---- | | | 18.759 | -0.055 | 2628 | 0.0000 | 0.1198 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | | | 22.076 | -0.004 | 571 | 0.0000 | 0.0334 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.588 | 0.033 | 2629 | ---- | | | 3.2548 | 0.0000 | --- | 2,4-Dichlorophenol |
| 18.601 | 0.005 | 217604 | 20.940 | 0.004 | 279404 | 13.8 | 13.3 | 3.9 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 55.3 | 53.2 |





Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A016.d

Date : 16-MAY-2011 21:03

Client ID: MM4042811

Sample Info: SU53C

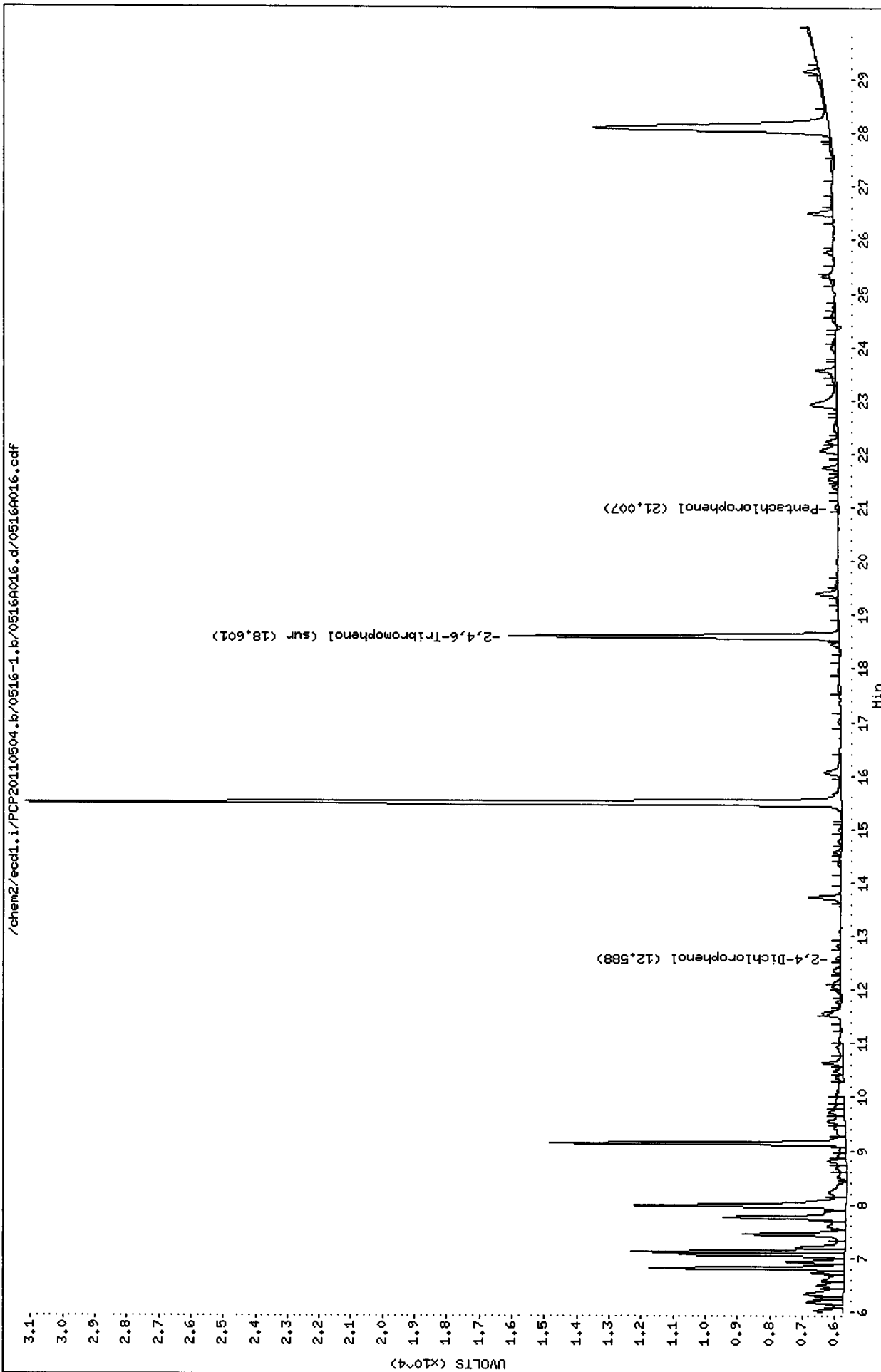
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

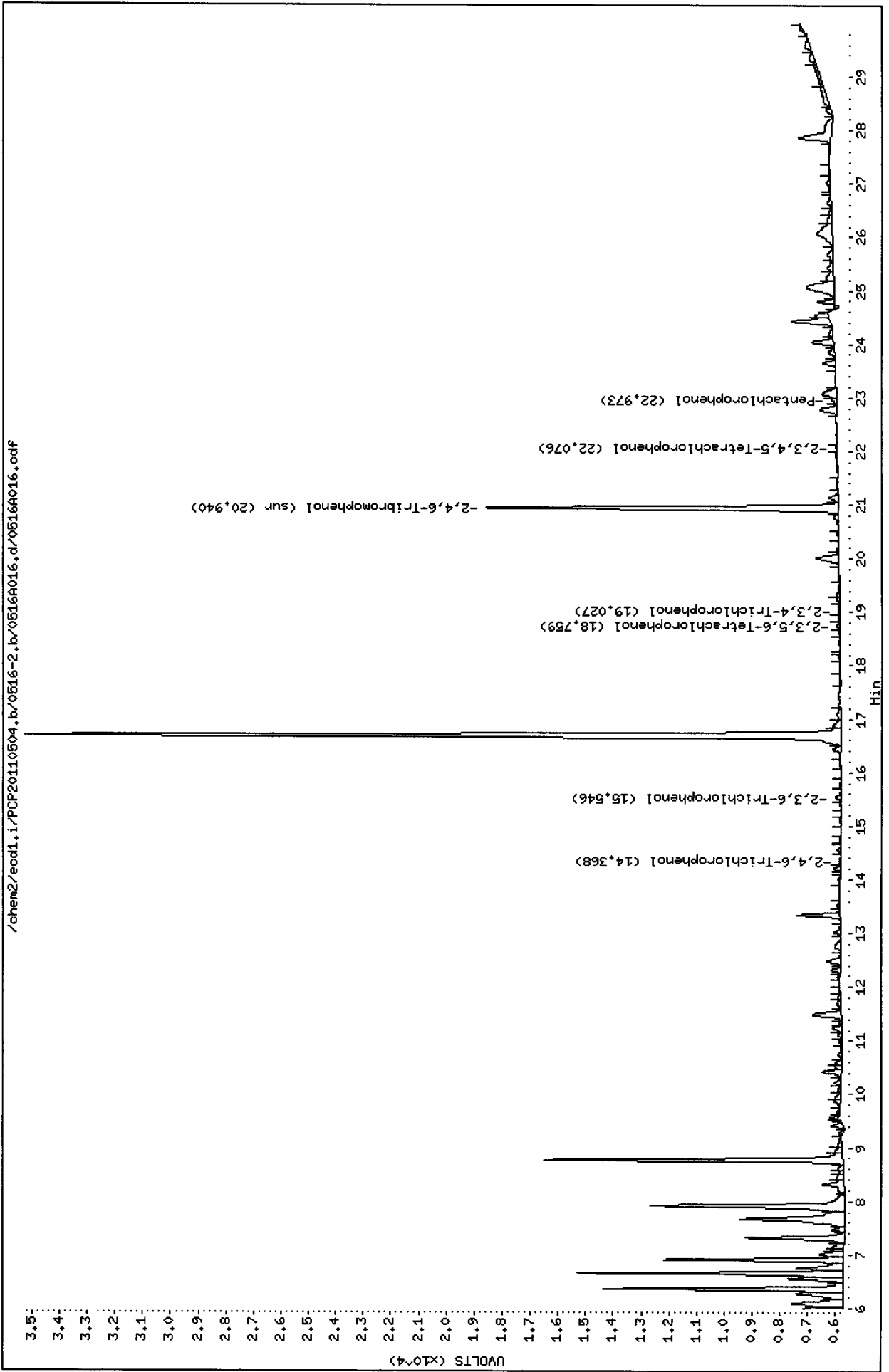
Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A016.d
Date : 16-MAY-2011 21:03
Client ID: MM4042811
Sample Info: SU53C
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



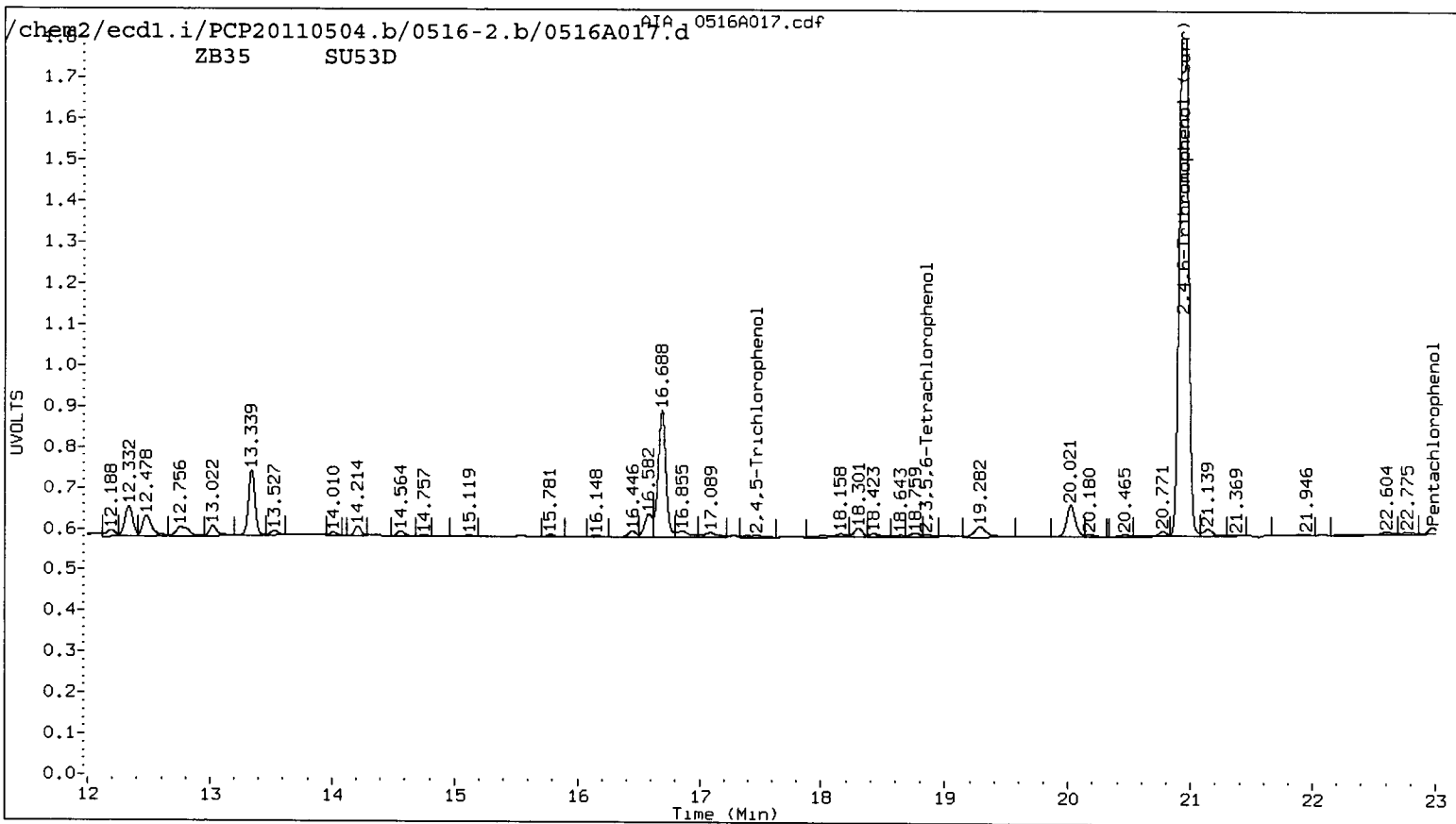
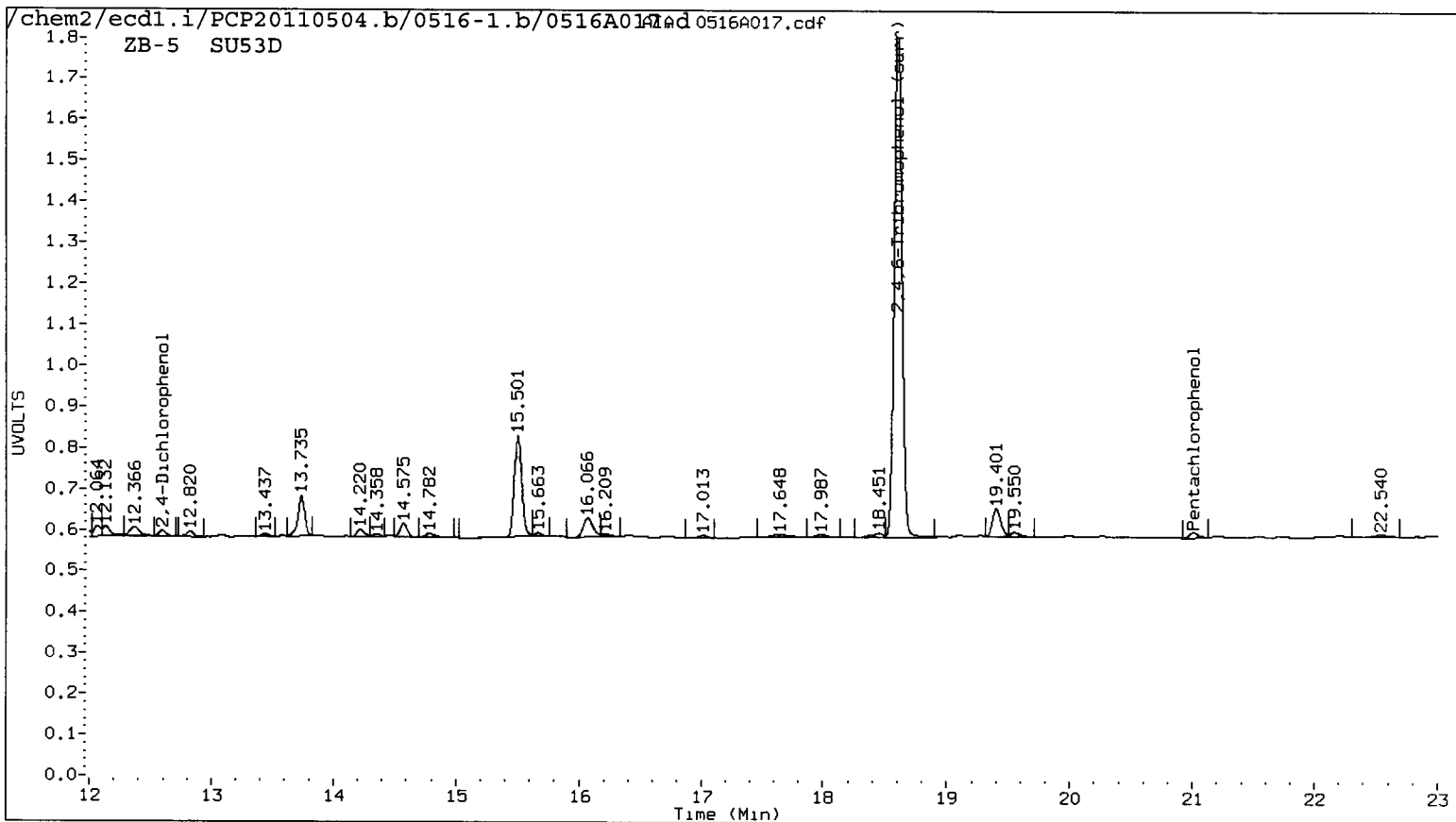
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

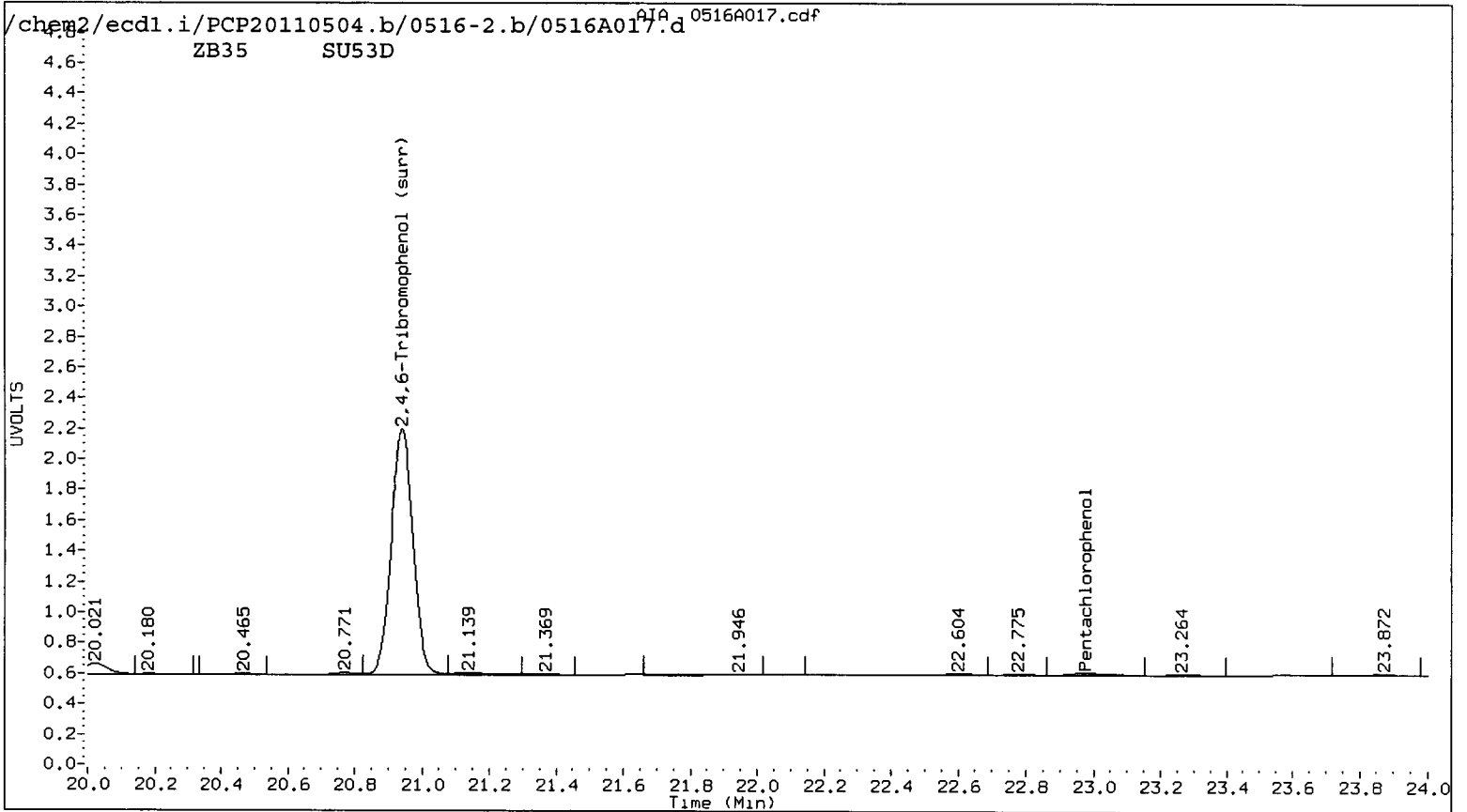
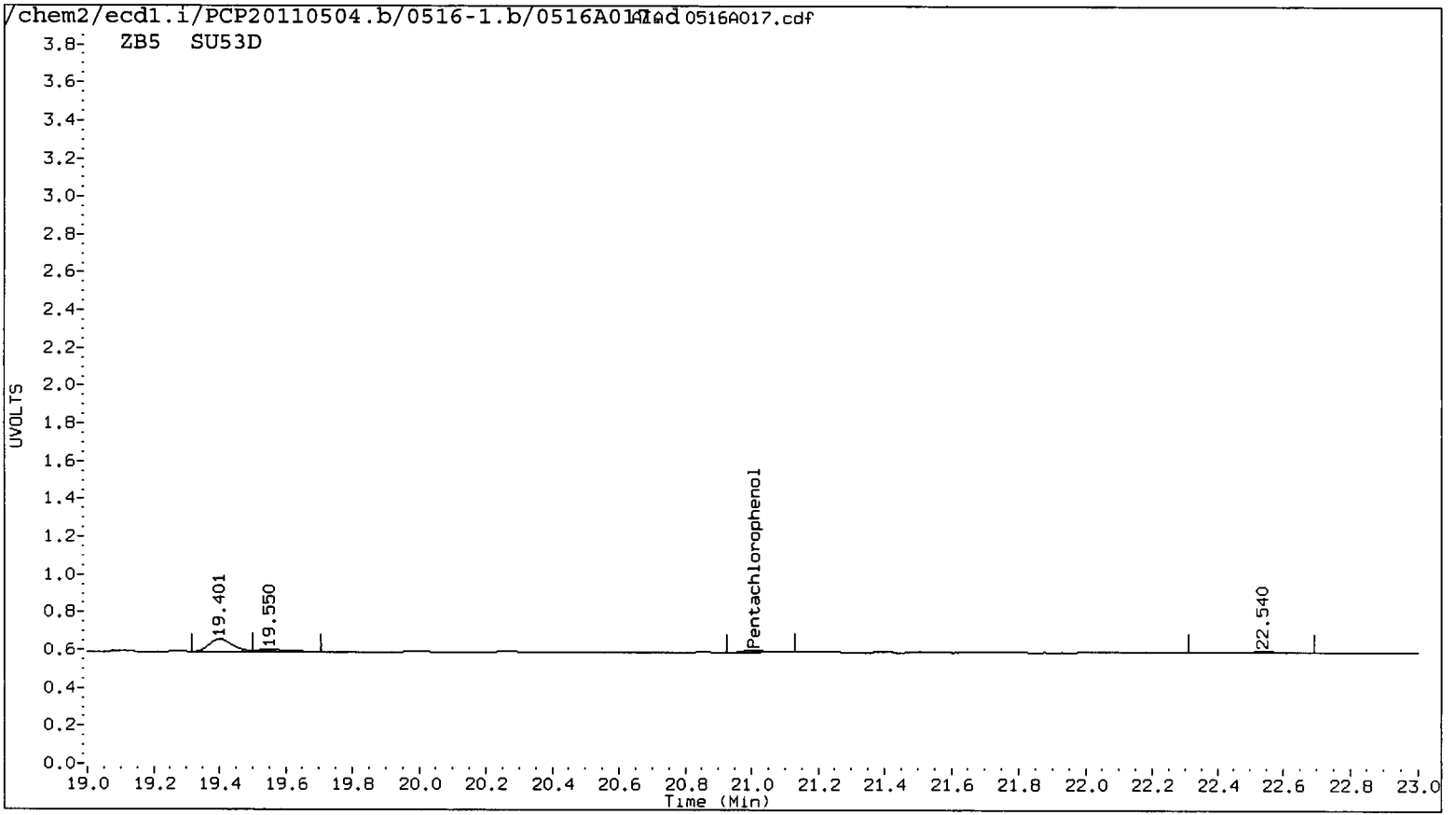
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A017.d ARI ID: SU53D
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A017.d Client ID: MW17042811
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 21:39
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|----------------------------|----------------|----------------|------|-----------------------------|
| 21.007 | 0.010 2919 | 22.975 0.008 5073 | 0.1449 | 0.1802 | 21.7 | Pentachlorophenol |
| ---- | | ---- | 0.0000 | 0.0000 | --- | 2,4,6-Trichlorophenol |
| ---- | | ---- | 0.0000 | 0.0000 | --- | 2,3,6-Trichlorophenol |
| ---- | | 17.473 -0.001 3311 | 0.0000 | 0.4091 | --- | 2,4,5-Trichlorophenol |
| ---- | | ---- | 0.0000 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| ---- | | 18.842 0.028 1705 | 0.0000 | 0.0778 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | | ---- | 0.0000 | 0.0000 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.590 | 0.035 2609 | ---- | 3.2297 | 0.0000 | --- | 2,4-Dichlorophenol |
| 18.601 | 0.005/271802 | 20.941 0.005/ 355546 | 17.3 | 16.9 / | 2.1 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 69.1 | 67.6 |





Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A017.d

Date : 16-MAY-2011 21:39

Client ID: MM17042811

Sample Info: SU53D

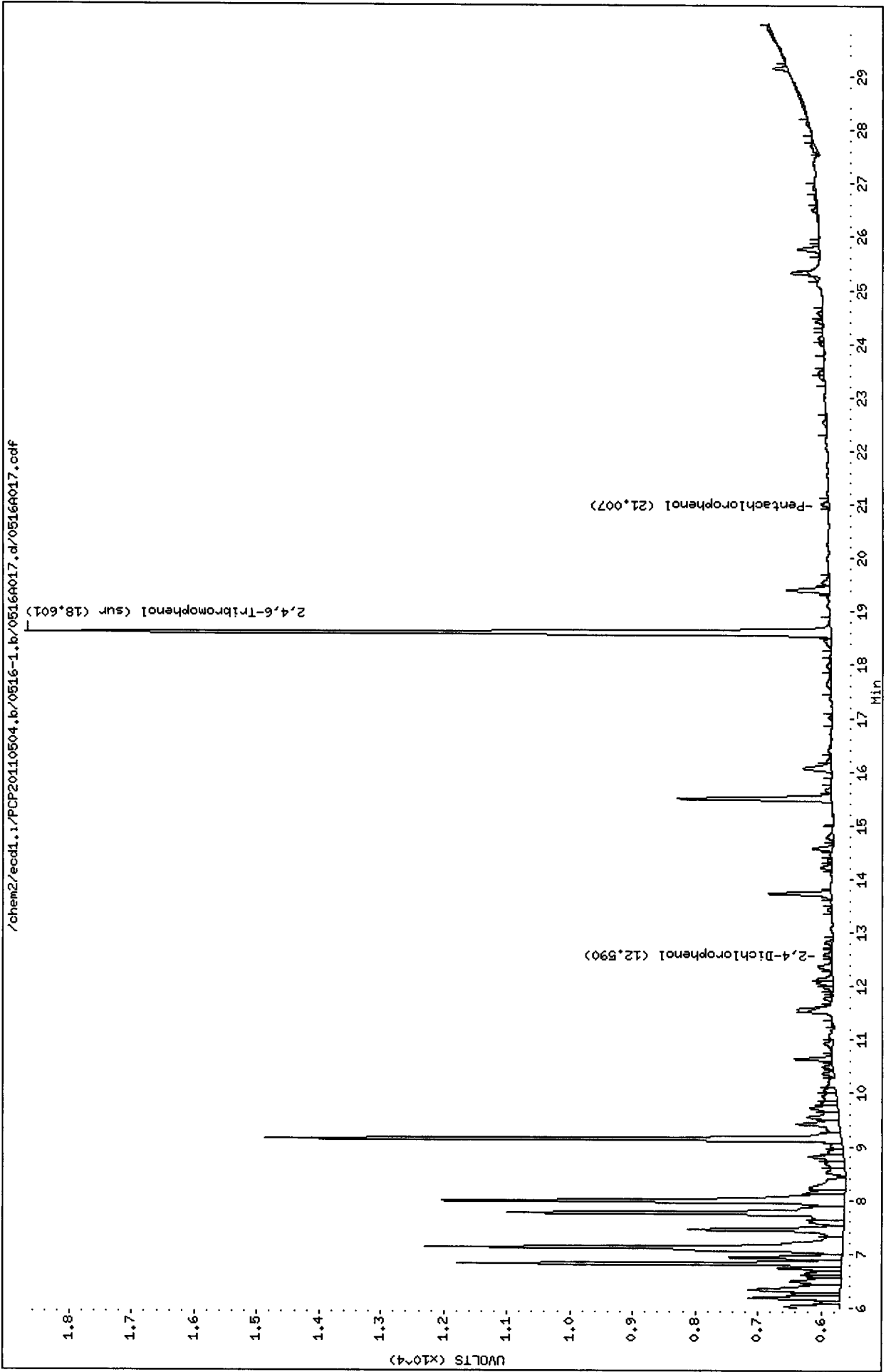
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

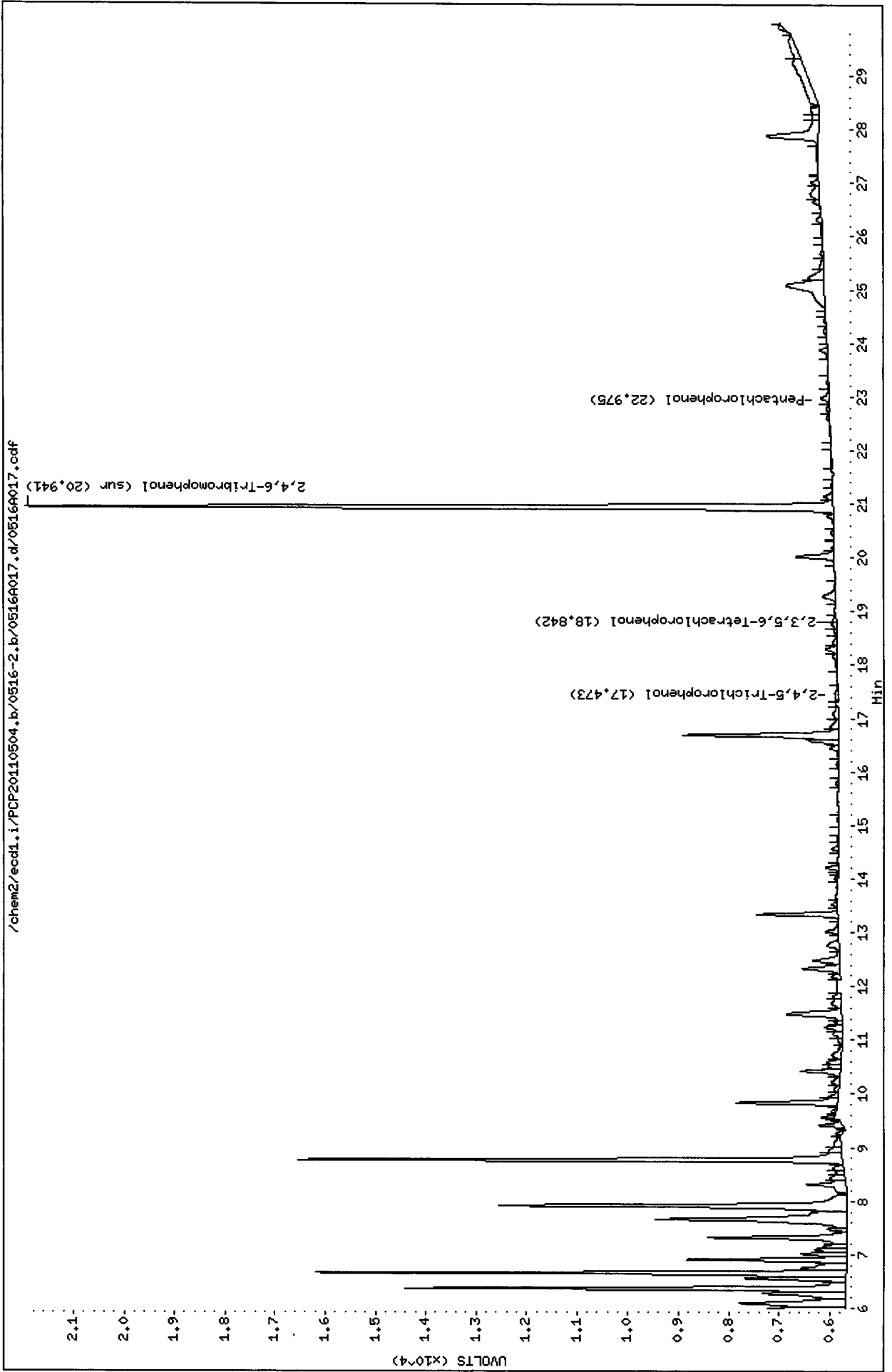


Data File: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A017.d
Date : 16-MAY-2011 21:39
Client ID: MM17042811
Sample Info: SU53D
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53



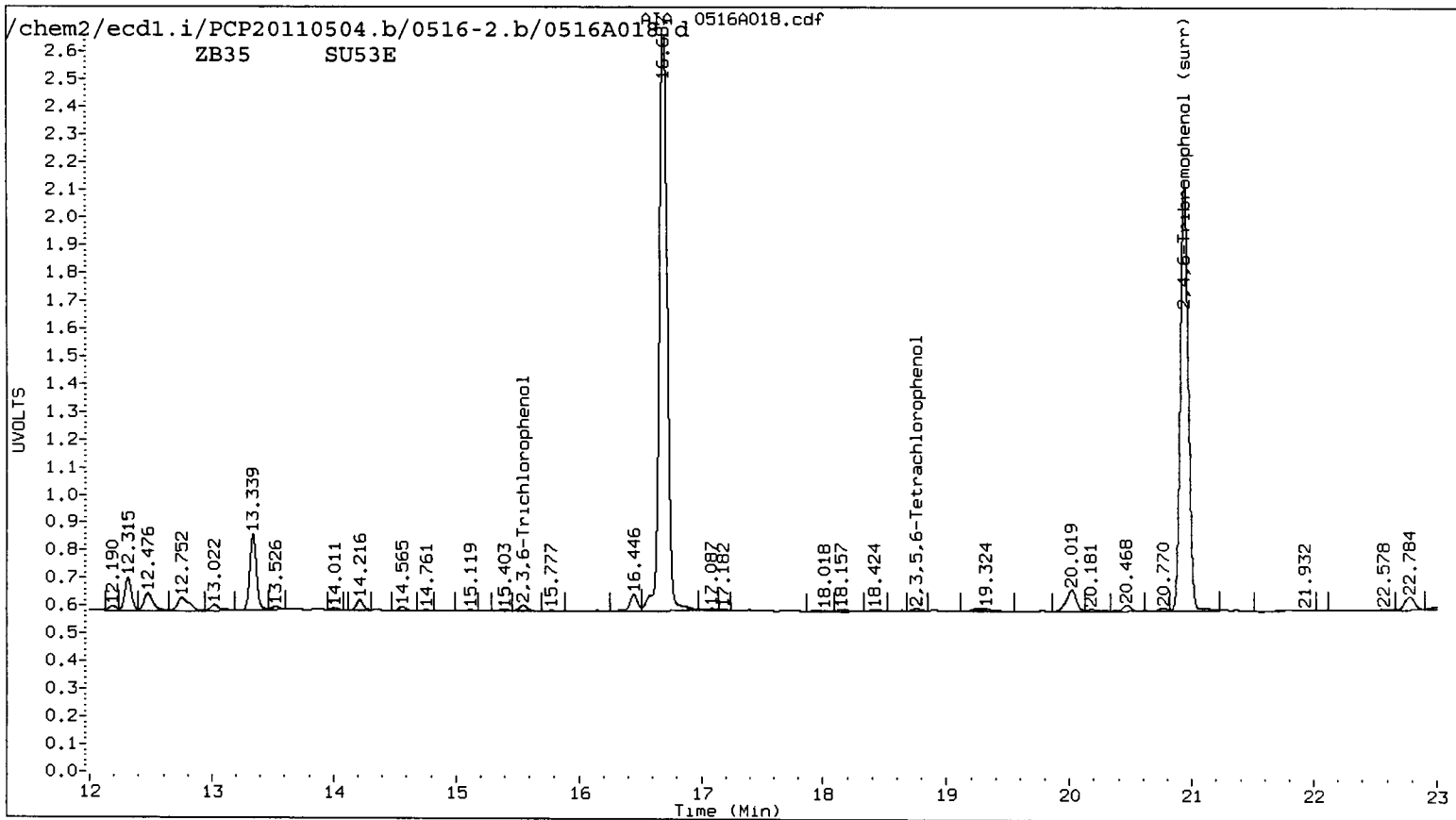
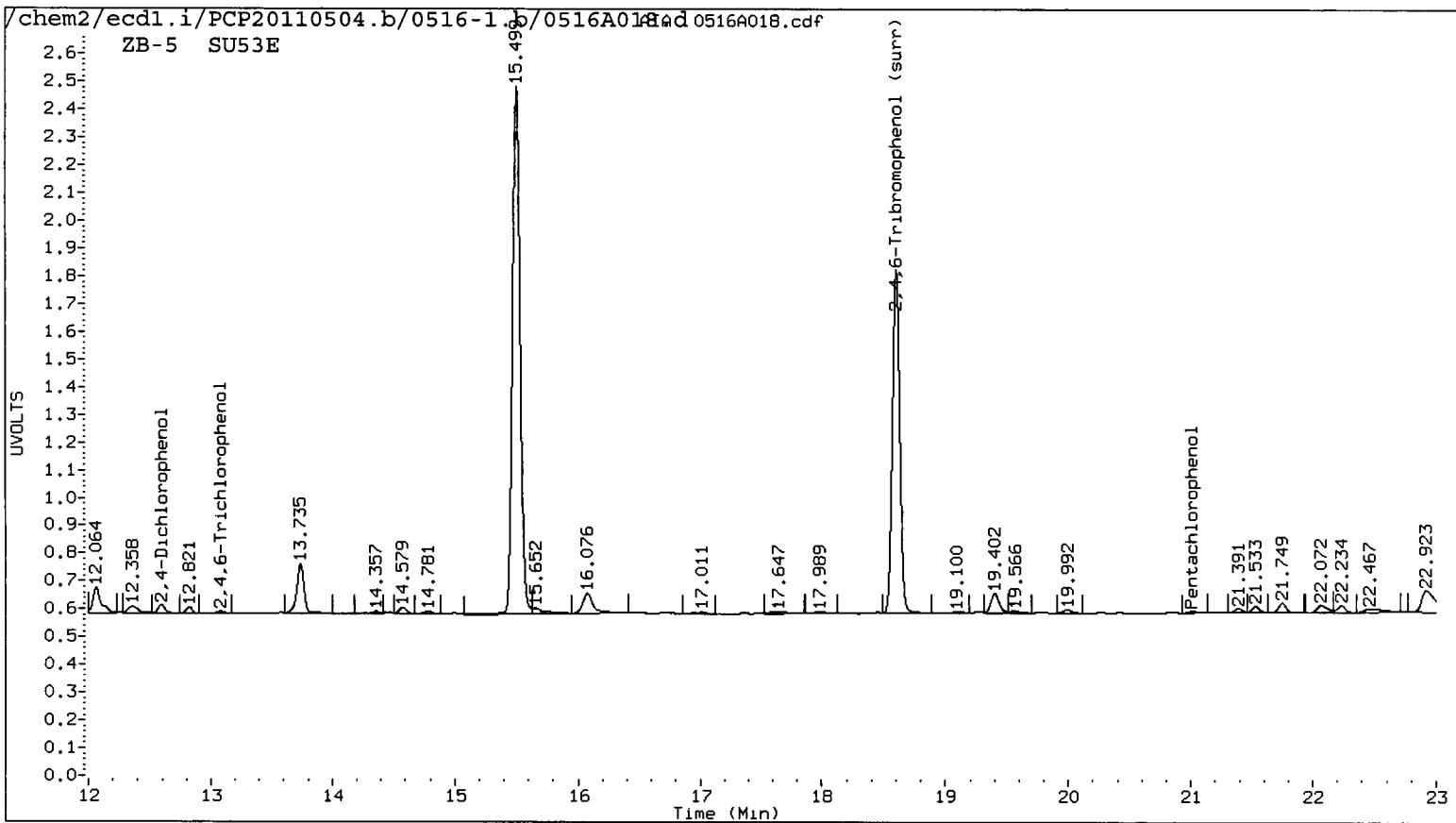
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

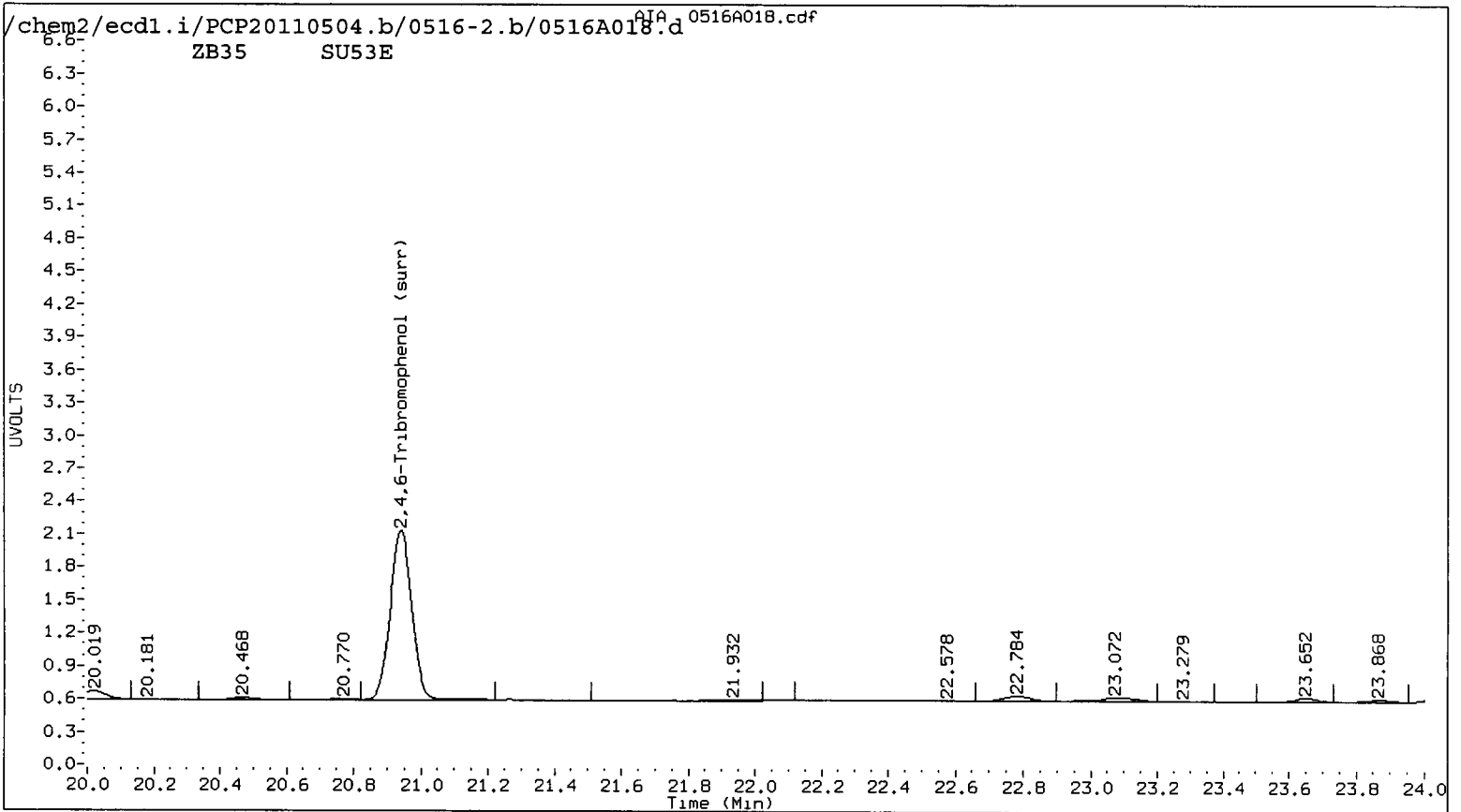
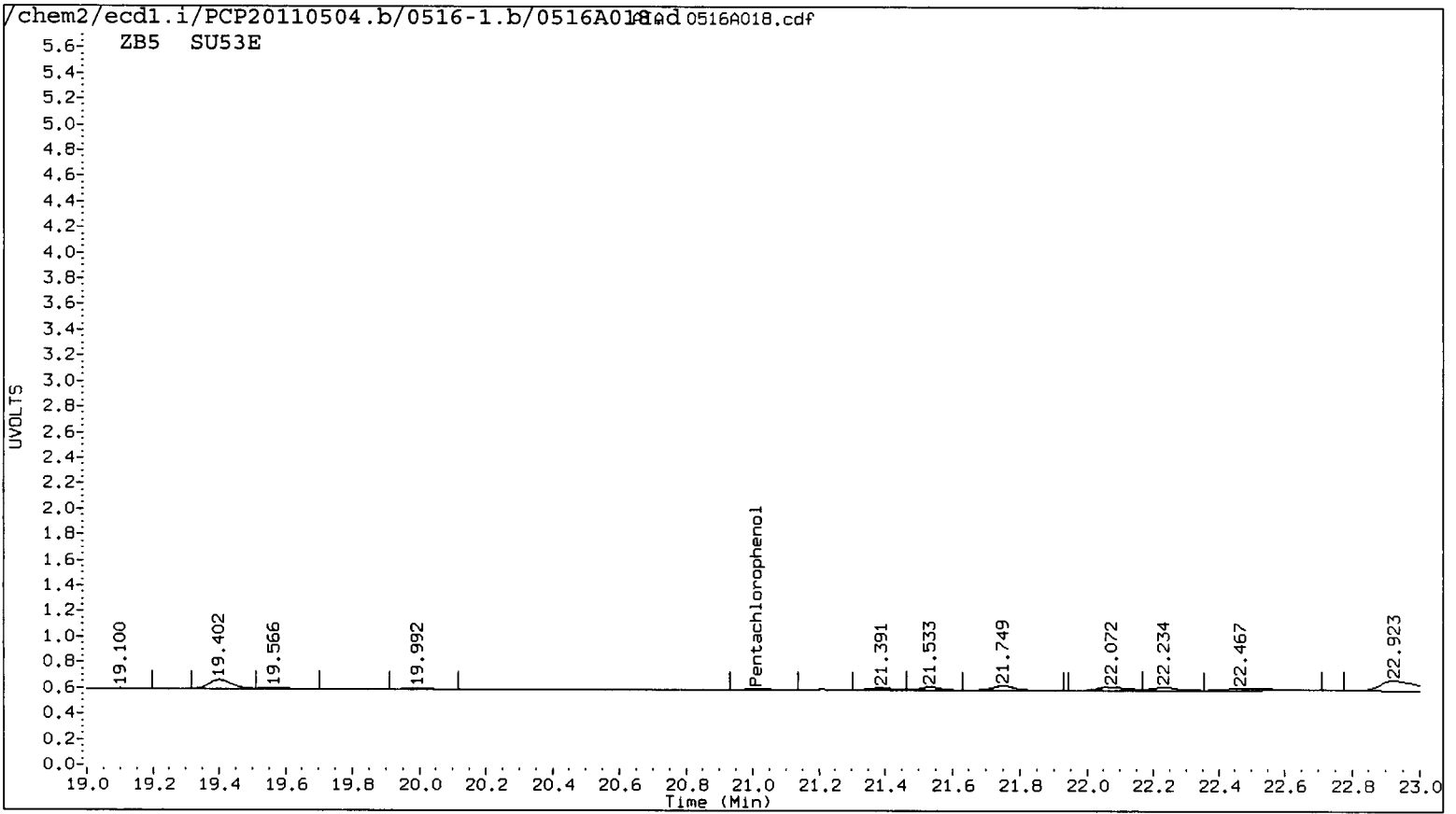
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A018.d ARI ID: SU53E
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A018.d Client ID: MW14042811
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 22:16
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|----------------------------|----------------|----------------|-----|-----------------------------|
| 21.011 | 0.014 | 1645 | 0.0817 | 0.0000 | --- | Pentachlorophenol |
| 13.080 | -0.021 | 1971 | 0.1619 | 0.0000 | --- | 2,4,6-Trichlorophenol |
| ---- | | 15.547 | 0.0000 | 0.3485 | --- | 2,3,6-Trichlorophenol |
| ---- | | ---- | 0.0000 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| ---- | | ---- | 0.0000 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| ---- | | 18.758 | 0.0000 | 0.0607 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | | ---- | 0.0000 | 0.0000 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.591 | 0.036 | 7155 | 8.9136 | 0.0000 | --- | 2,4-Dichlorophenol |
| 18.602 | 0.006 | 264026 | 16.8 | 16.4 | 2.4 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 67.1 | 65.5 |





Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A018.d

Date : 16-MAY-2011 22:16

Client ID: MM14042811

Sample Info: SU53E

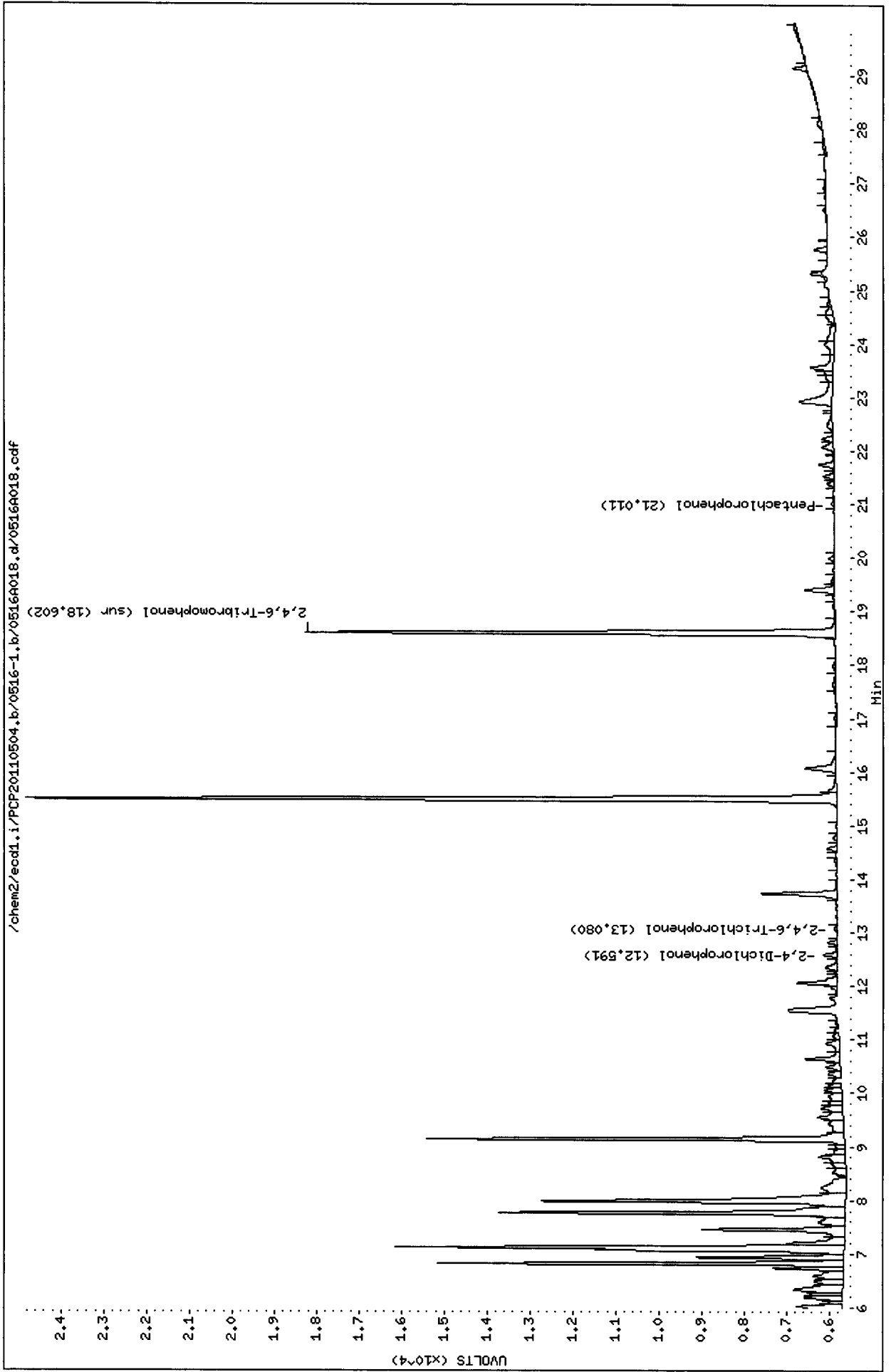
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecdl1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A018.d

Date : 16-MAY-2011 22:16

Client ID: MM14042811

Sample Info: SU53E

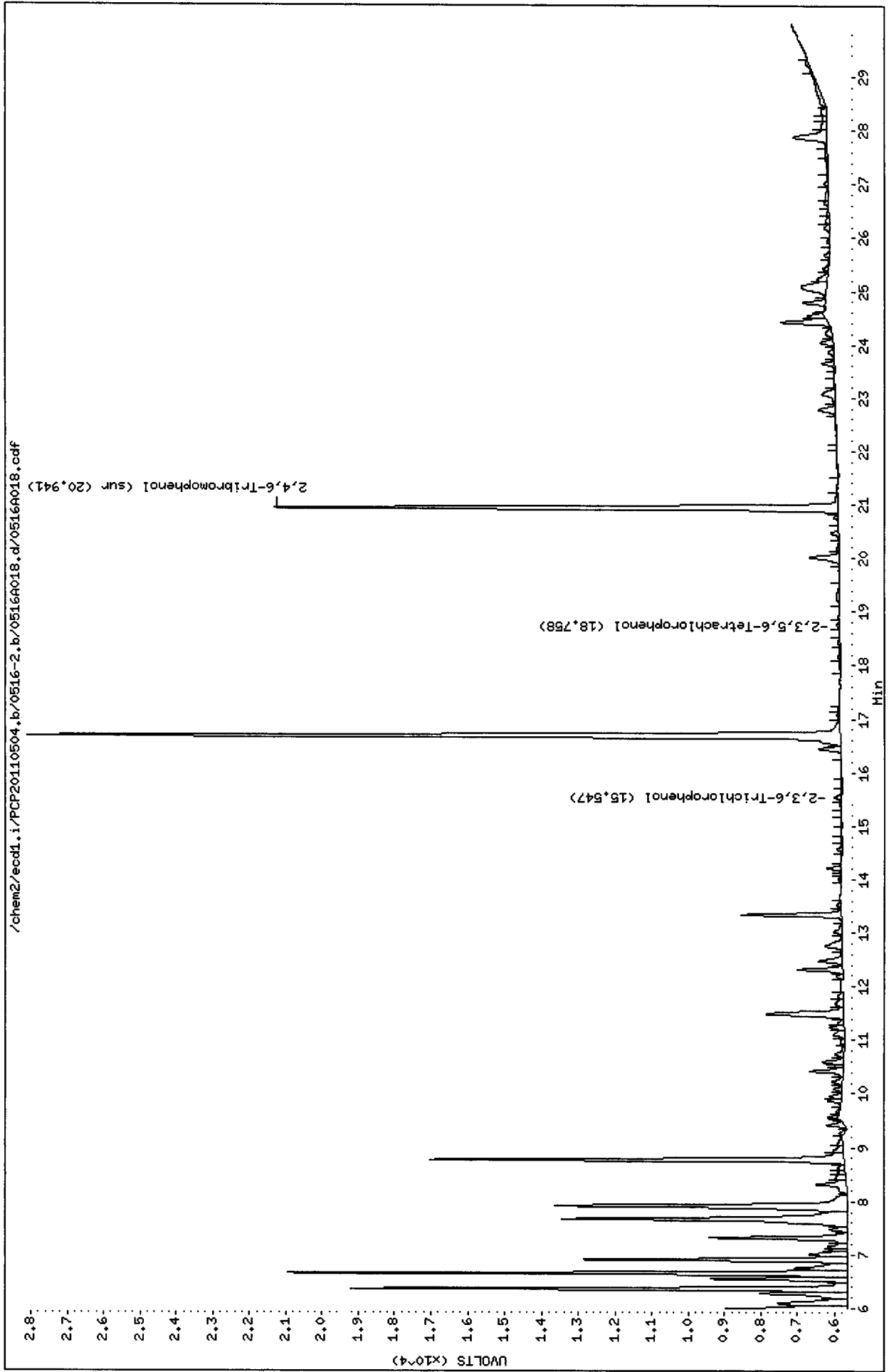
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



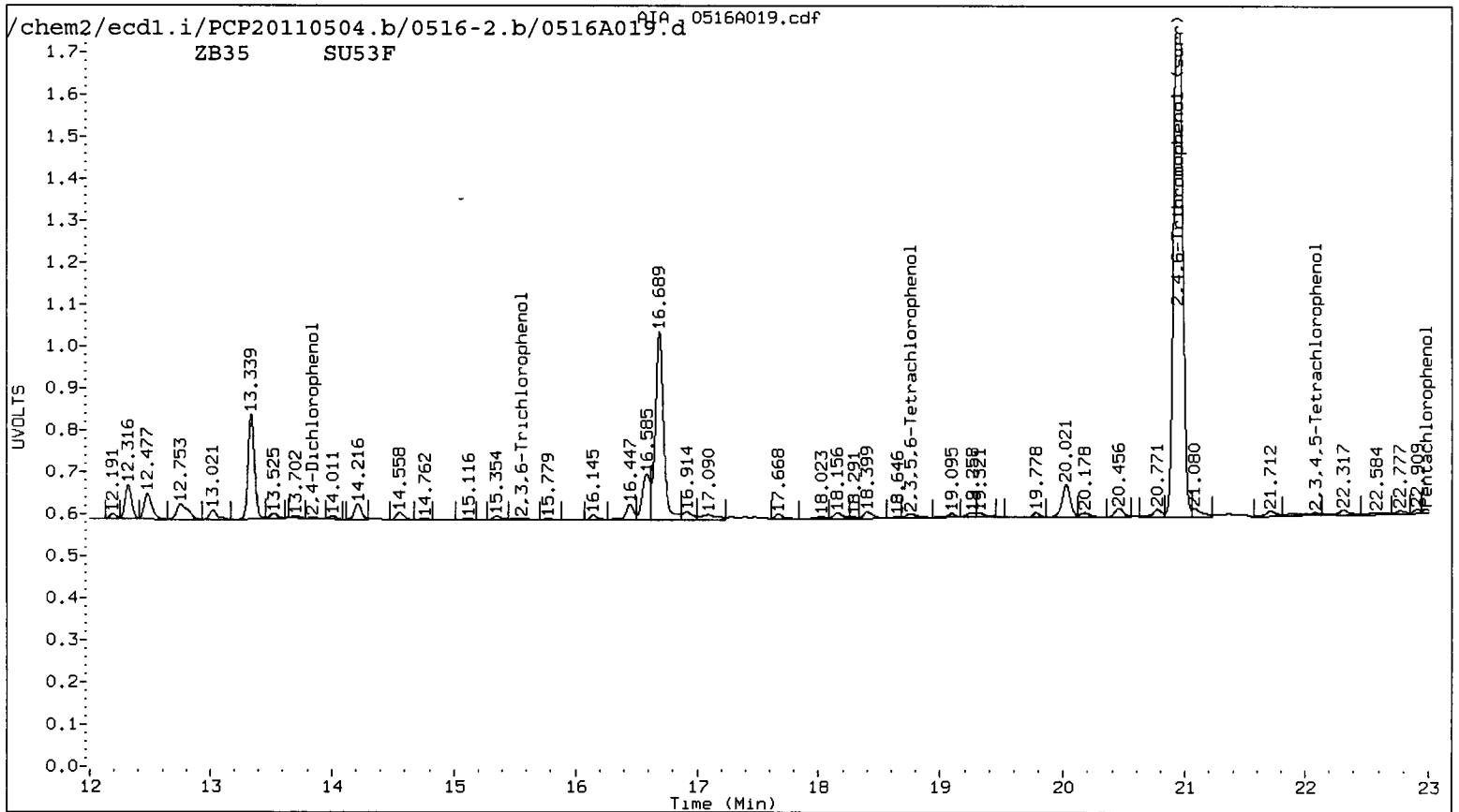
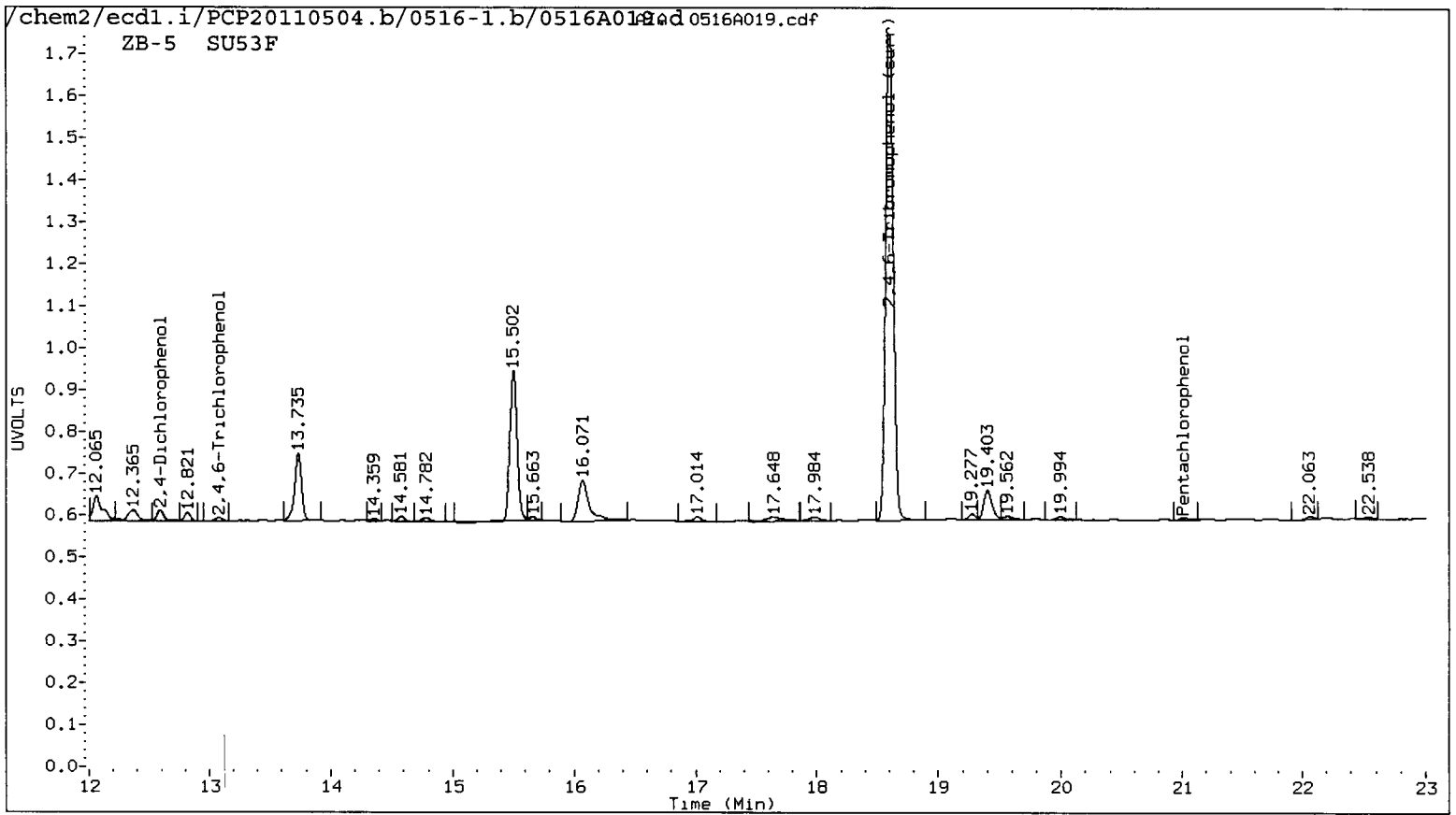
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A019.d ARI ID: SU53F
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A019.d Client ID: MW16042811
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 16-MAY-2011 22:52
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

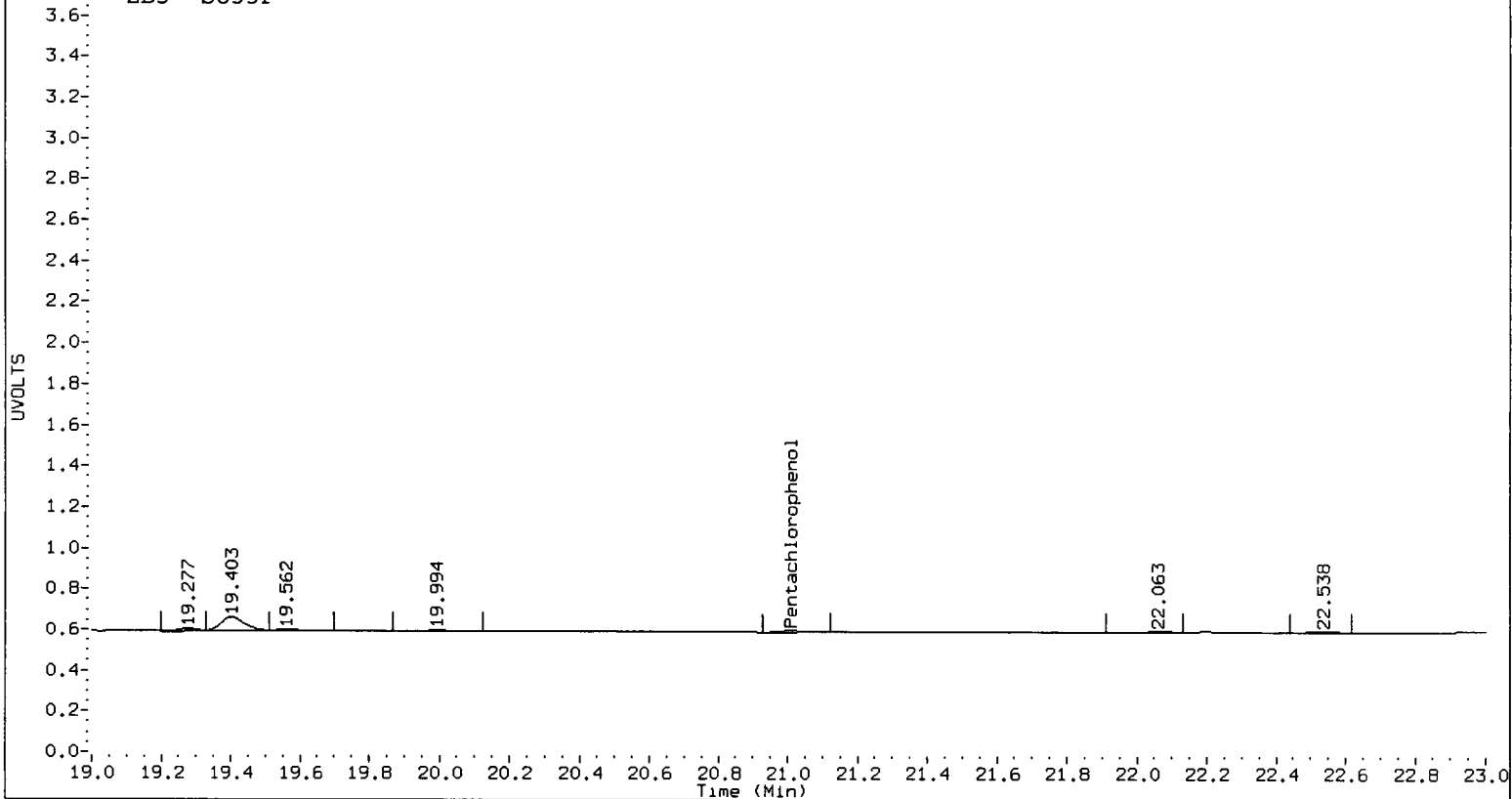
| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|--------|--------|--------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 21.011 | 0.014 | 1646 | 22.977 | 0.010 | 2532 | 0.0817 | 0.0899 | 9.6 | Pentachlorophenol |
| 13.080 | -0.021 | 1854 | ---- | | | 0.1523 | 0.0000 | --- | 2,4,6-Trichlorophenol |
| ---- | | | 15.554 | -0.003 | 1932 | 0.0000 | 0.1344 | --- | 2,3,6-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| ---- | | | 18.756 | -0.058 | 3266 | 0.0000 | 0.1489 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | | | 22.083 | 0.003 | 4965 | 0.0000 | 0.2902 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.590 | 0.035 | 6096 | 13.840 | 0.020 | 827 | 7.5824 | 0.9314 | 156.2* | 2,4-Dichlorophenol |
| 18.603 | 0.007 | 263574 | 20.942 | 0.006 | 348729 | 16.7 | 16.6 | 0.9 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

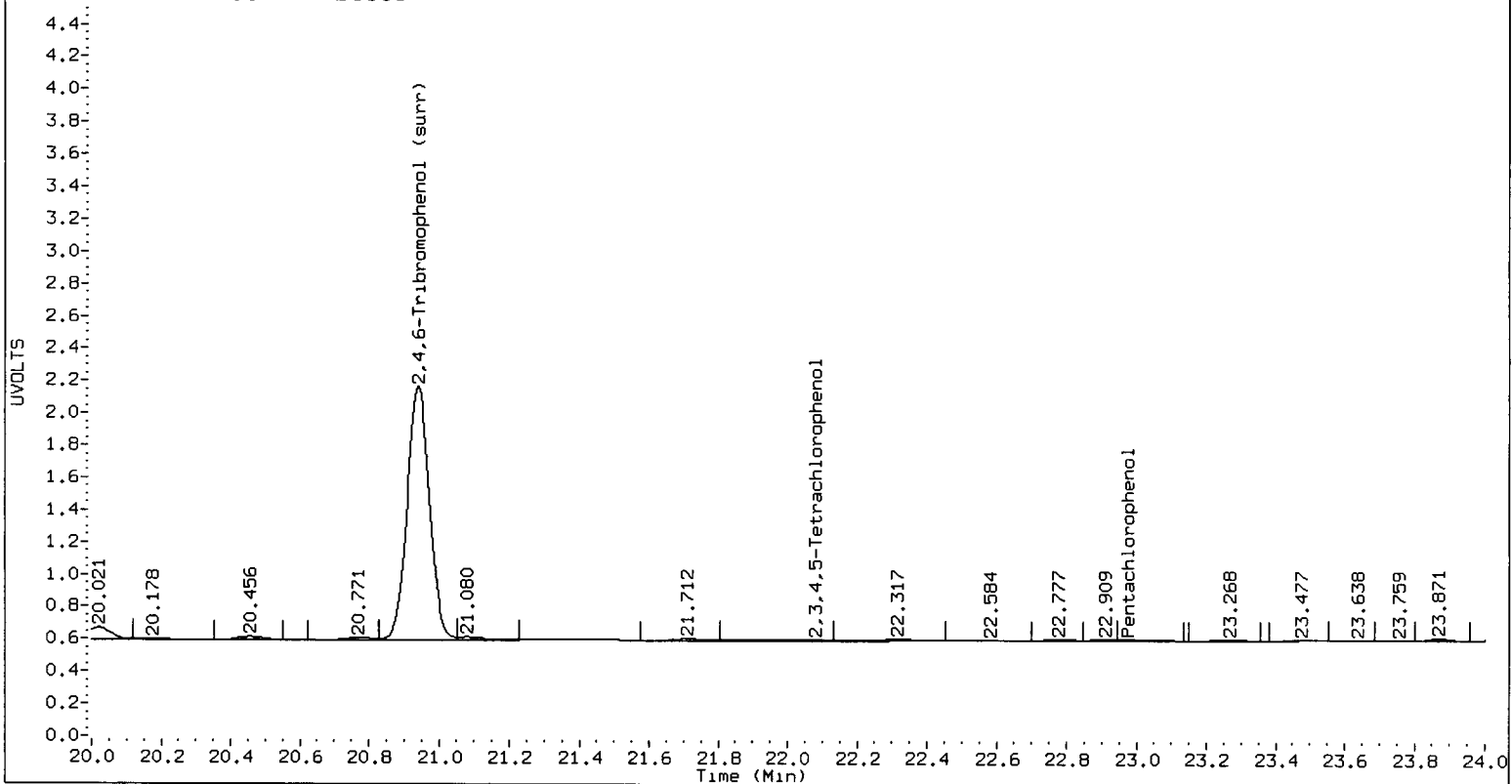
| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 67.0 | 66.3 |



ZB5 SU53F



ZB35 SU53F



Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A019.d

Date : 16-MAY-2011 22:52

Client ID: MM16042811

Sample Info: SU53F

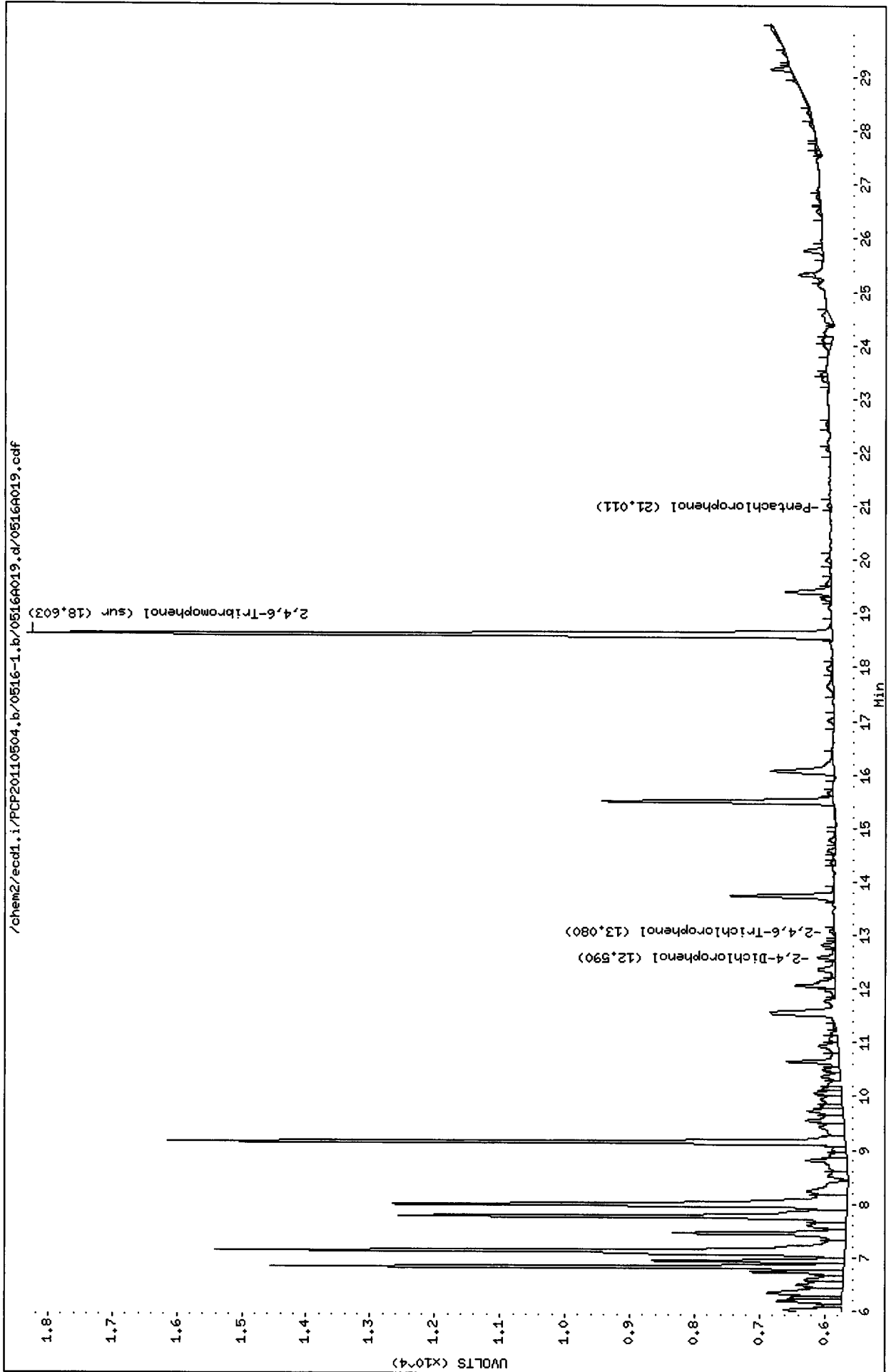
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A019.d

Date : 16-MAY-2011 22:52

Client ID: MM16042811

Sample Info: SU53F

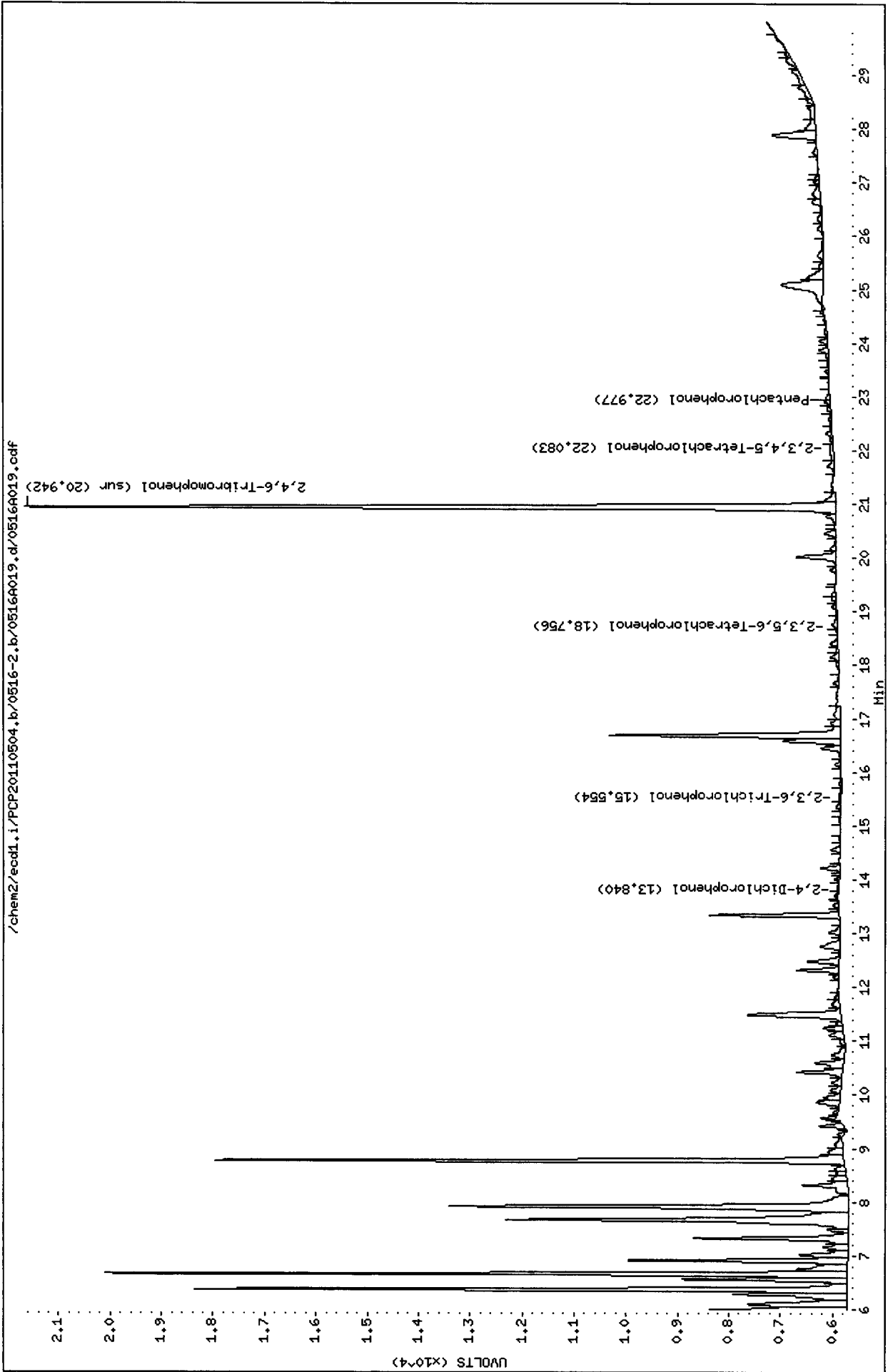
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



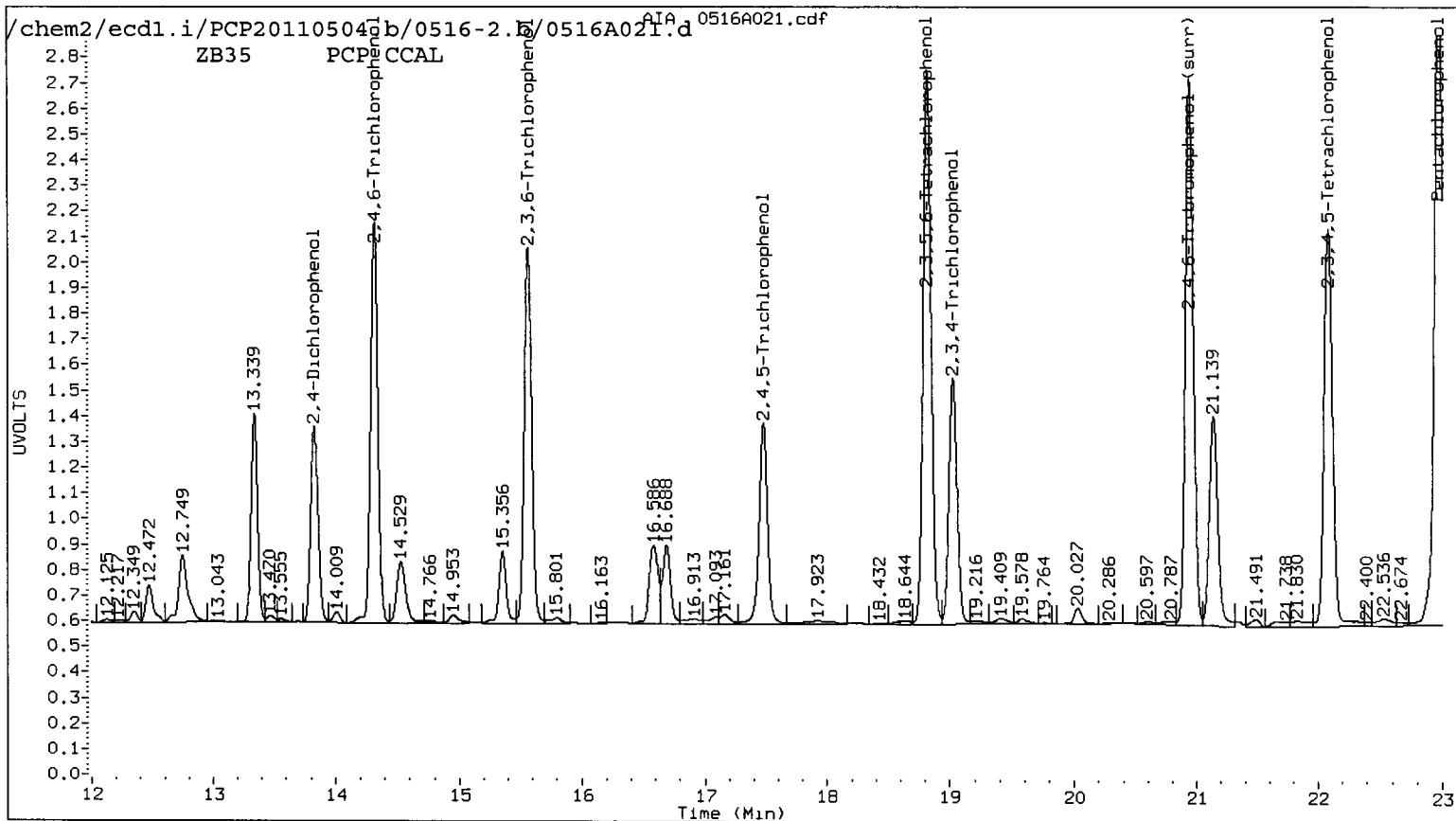
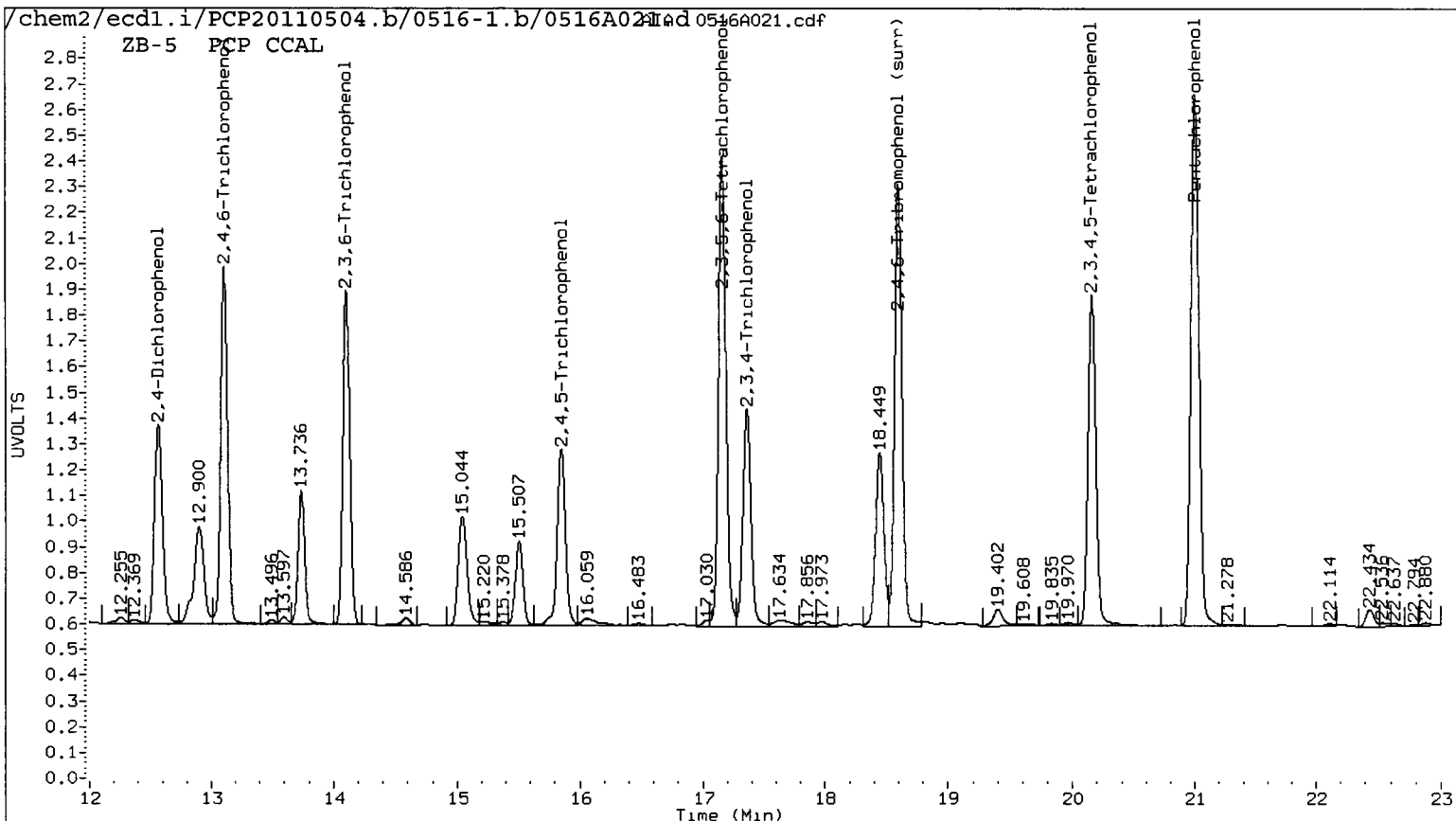
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A021.d ARI ID: PCP CCAL
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A021.d Client ID:
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 00:04
 Compound Sublist: all Report Date: 05/18/2011 09:24
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

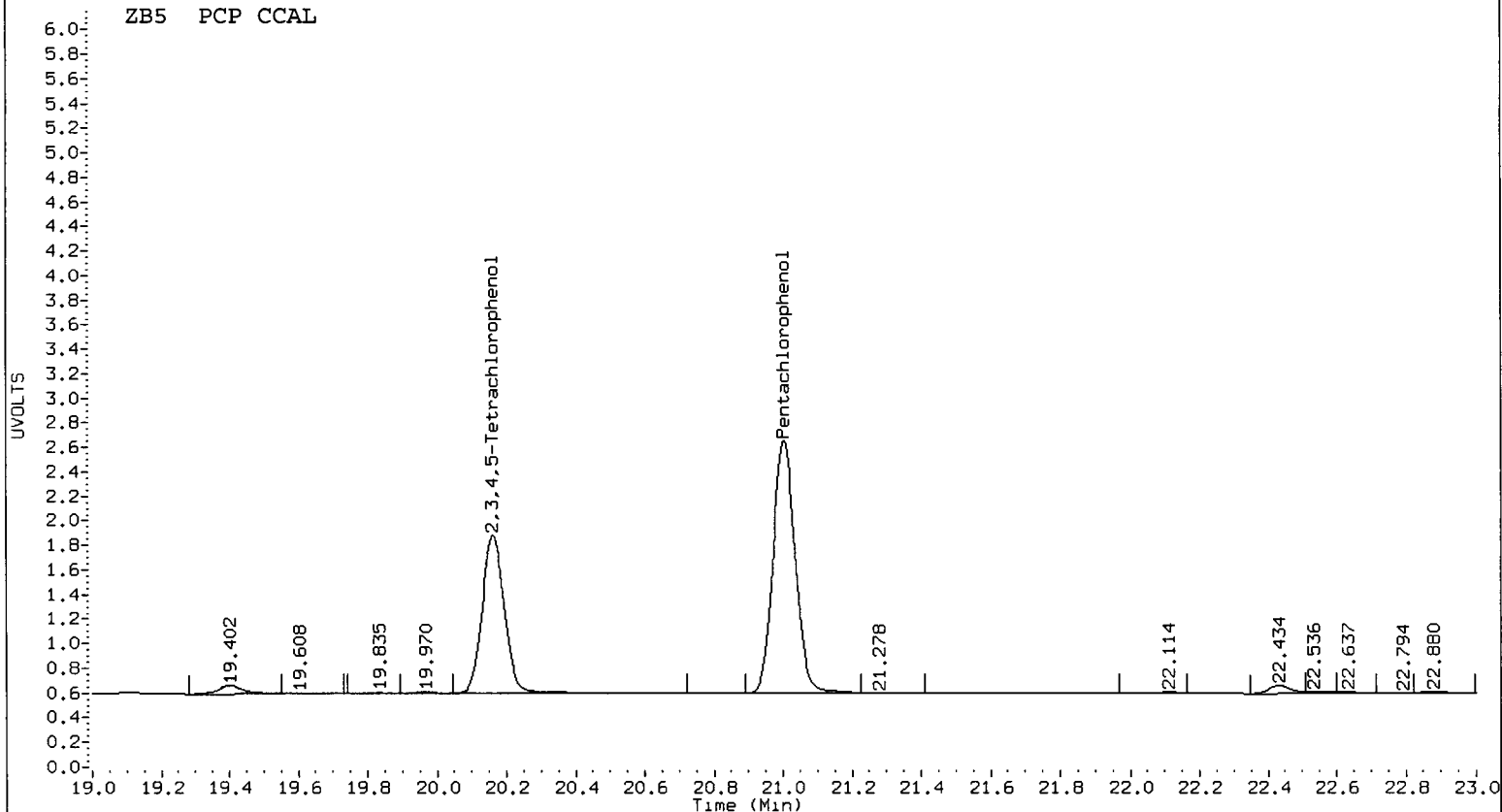
| ZB-5 Col | | ZB35 Col | | ZB-5 | ZB35 | RPD | Compound |
|----------|----------------|----------|----------------|----------|-----------|------|-----------------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 21.004 | 0.007 / 465902 | 22.974 | 0.007 / 635188 | 23.1227 | 22.5557 / | 2.5 | Pentachlorophenol |
| 13.107 | 0.006 281484 | 14.317 | 0.006 322018 | 23.1241 | 22.2177 | 4.0 | 2,4,6-Trichlorophenol |
| 14.103 | 0.006 258565 | 15.563 | 0.006 313899 | 22.5769 | 21.8389 | 3.3 | 2,3,6-Trichlorophenol |
| 15.851 | 0.006 159595 | 17.479 | 0.005 190477 | 23.9382 | 23.5283 | 1.7 | 2,4,5-Trichlorophenol |
| 17.358 | 0.007 191653 | 19.028 | 0.005 218923 | 22.9378 | 23.7806 | 3.6 | 2,3,4-Trichlorophenol |
| 17.159 | 0.006 393464 | 18.820 | 0.006 482149 | 23.2727 | 21.9778 | 5.7 | 2,3,5,6-Tetrachlorophenol |
| 20.161 | 0.007 291735 | 22.086 | 0.006 370757 | 22.4727 | 24.1811 | 7.3 | 2,3,4,5-Tetrachlorophenol |
| 12.564 | 0.009 / 176223 | 13.826 | 0.006 164465 | 272.3052 | 231.3324 | 16.3 | 2,4-Dichlorophenol |
| 18.602 | 0.007 372324 | 20.942 | 0.006 / 472286 | 23.6 | 22.5 / | 5.1 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

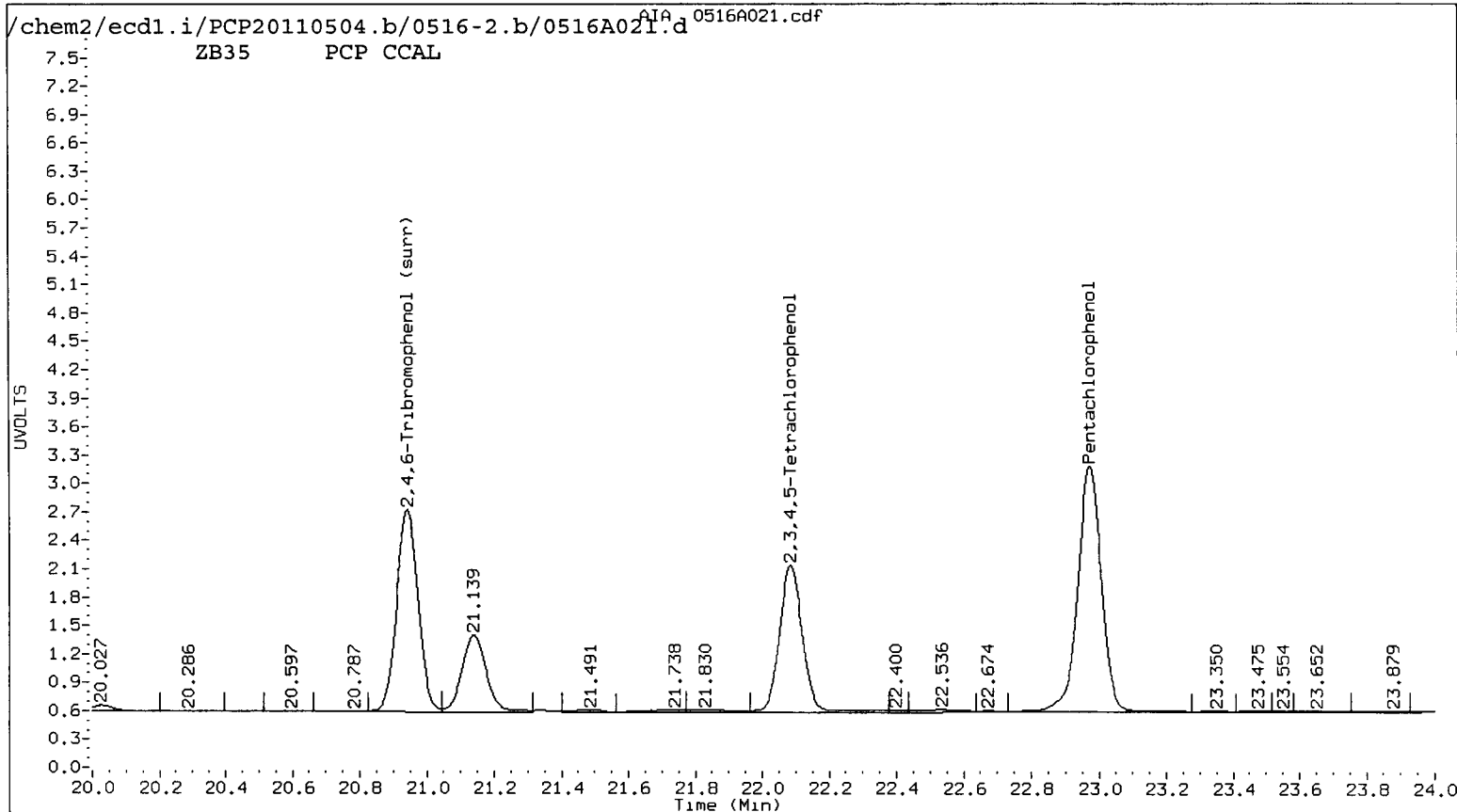
| COMPOUND | Col1 | Col2 |
|---------------------------|-------|--------|
| Pentachlorophenol | 92.5 | 90.2 / |
| 2,4,6-Trichlorophenol | 92.5 | 88.9 |
| 2,3,6-Trichlorophenol | 90.3 | 87.4 |
| 2,4,5-Trichlorophenol | 95.8 | 94.1 |
| 2,3,4-Trichlorophenol | 91.8 | 95.1 |
| 2,3,5,6-Tetrachlorophenol | 93.1 | 87.9 |
| 2,3,4,5-Tetrachlorophenol | 89.9 | 96.7 |
| 2,4-Dichlorophenol | 108.9 | 92.5 / |
| 2,4,6-TBP (surr) | 94.6 | 89.9 / |



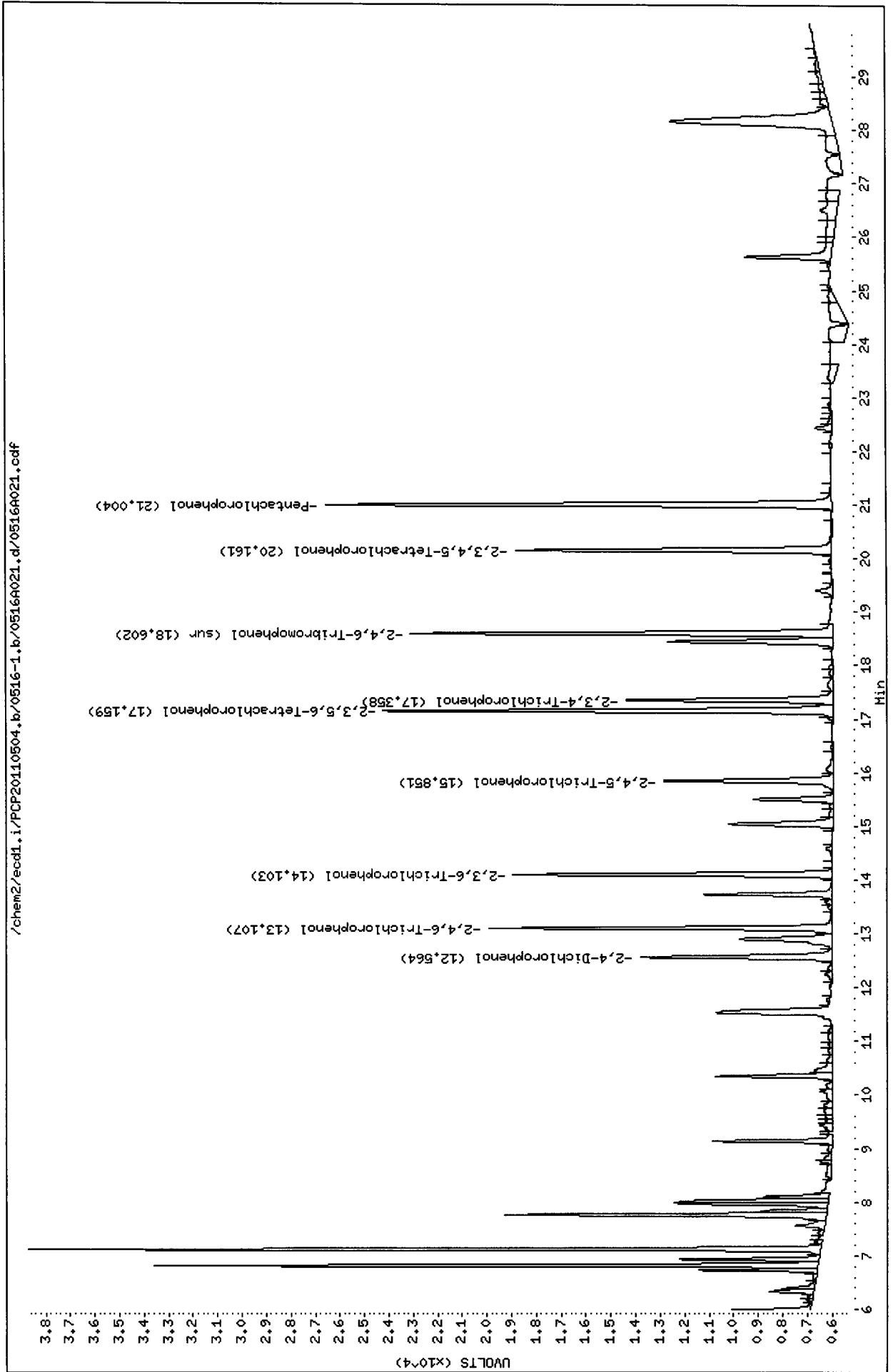
ZB5 PCP CCAL



ZB35 PCP CCAL

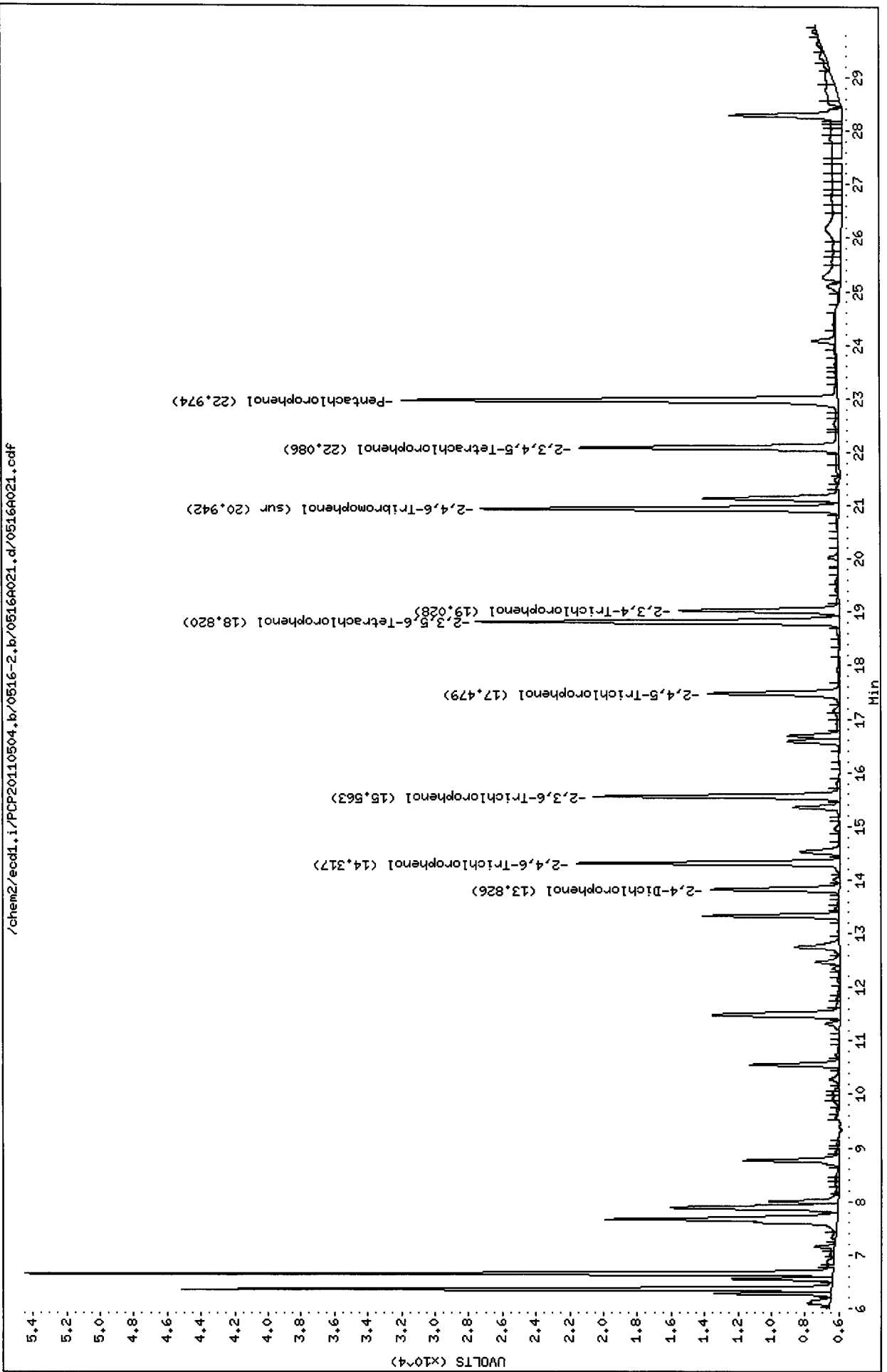


Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A021.d
Date : 17-MAY-2011 00:04
Client ID:
Sample Info: PCP CCAL
Purge Volume: 500.0
Column phase: STX CLP1
Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A021.d
Date : 17-MAY-2011 00:04
Client ID:
Sample Info: PCP CCAL
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



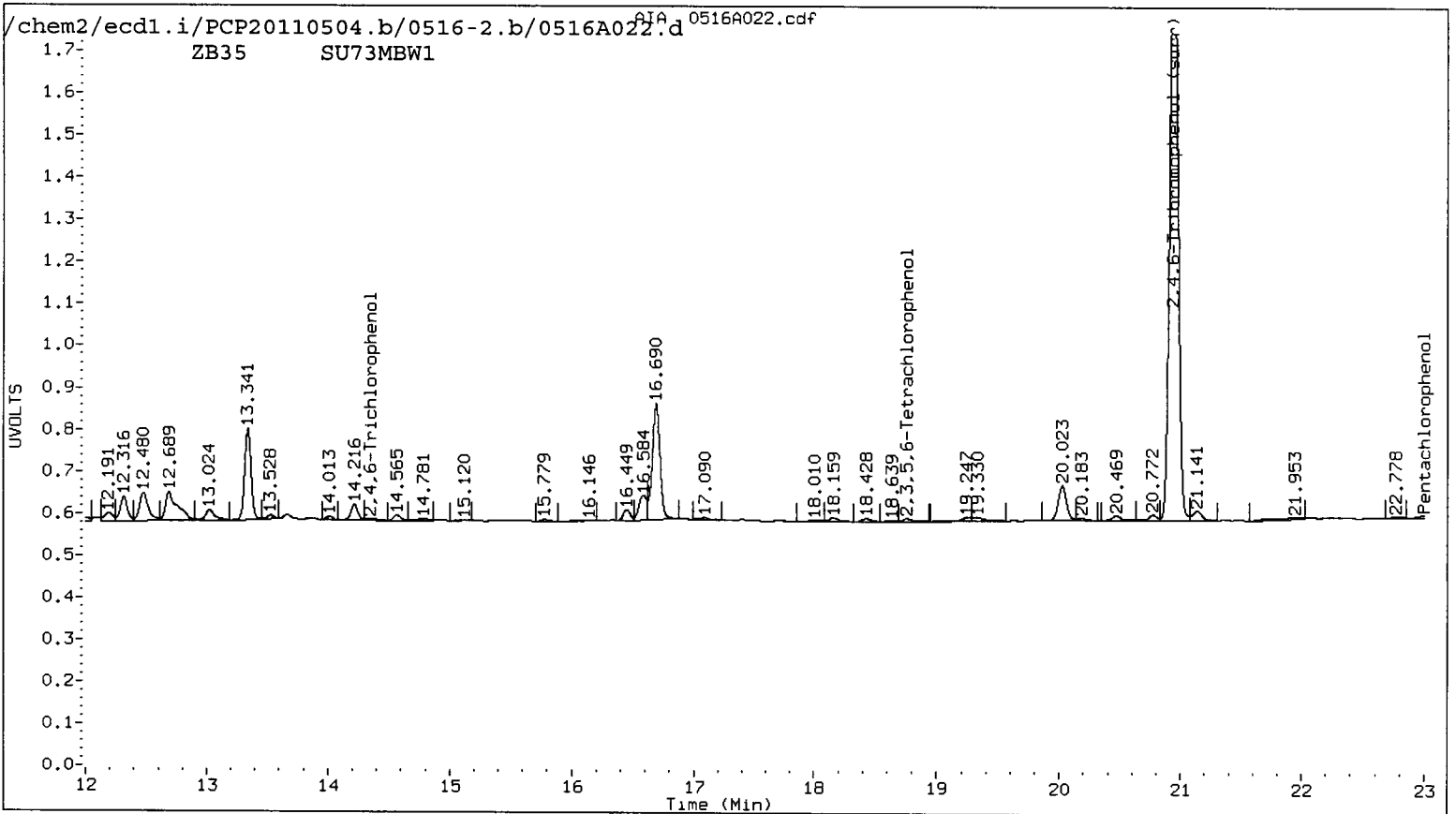
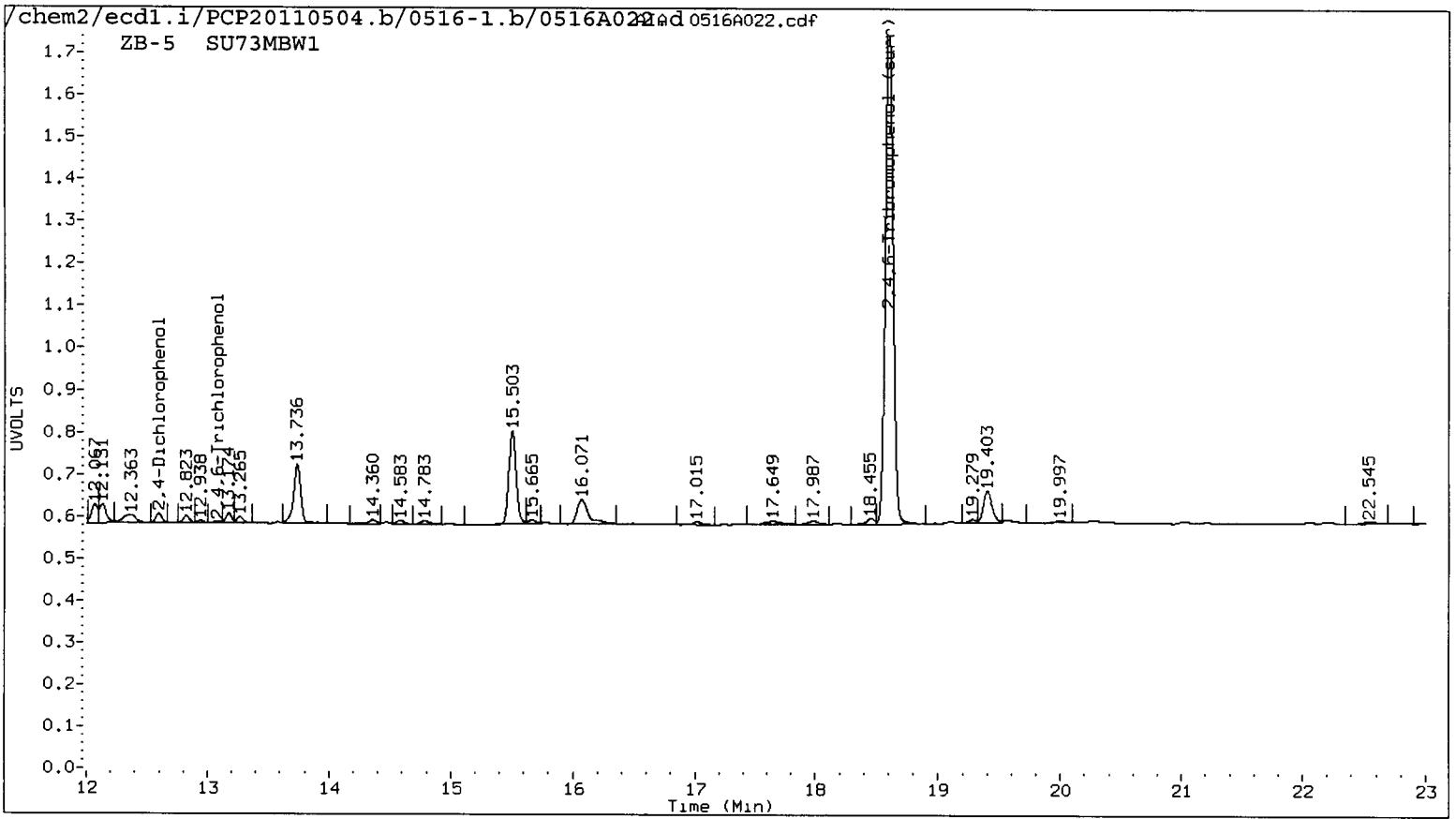
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

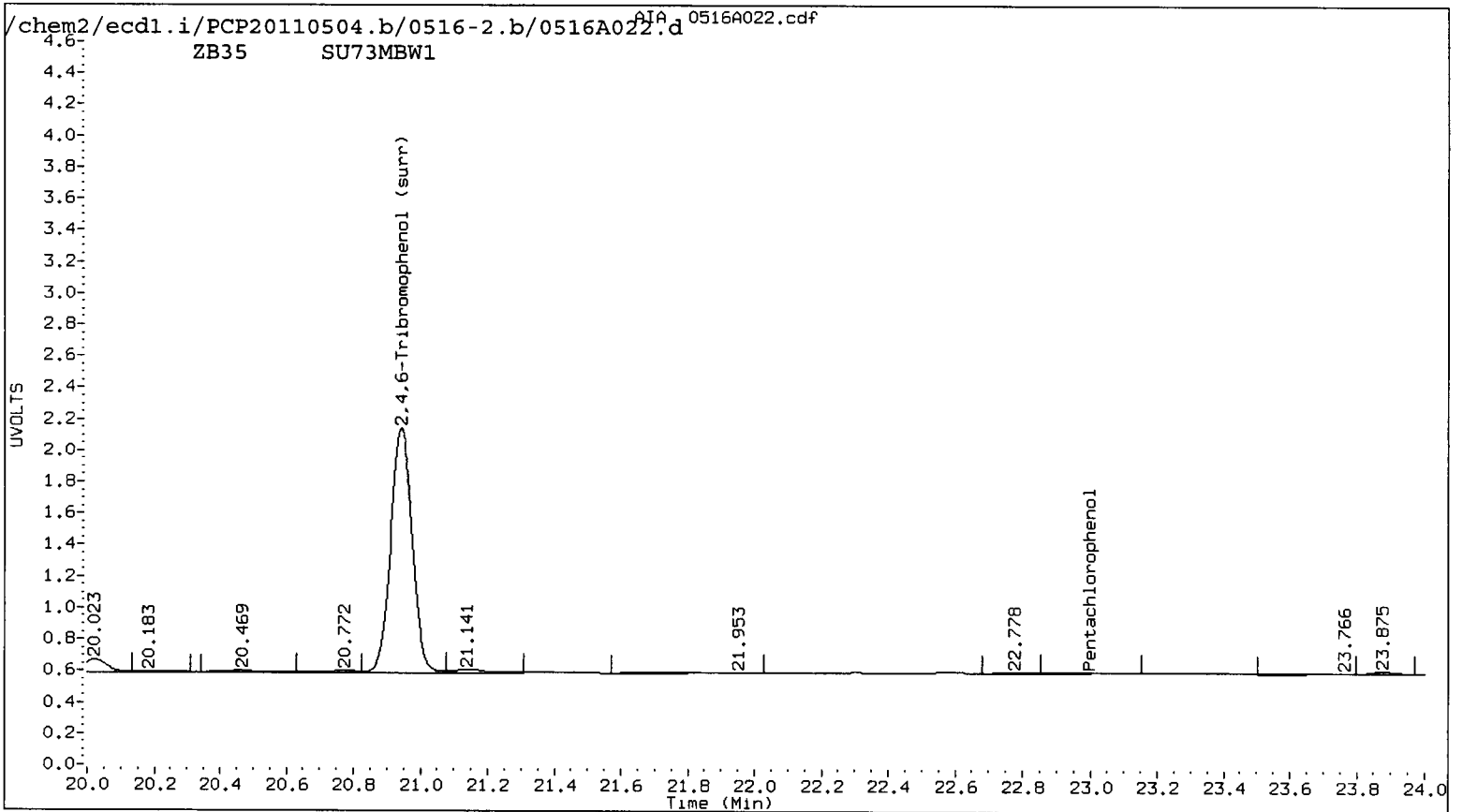
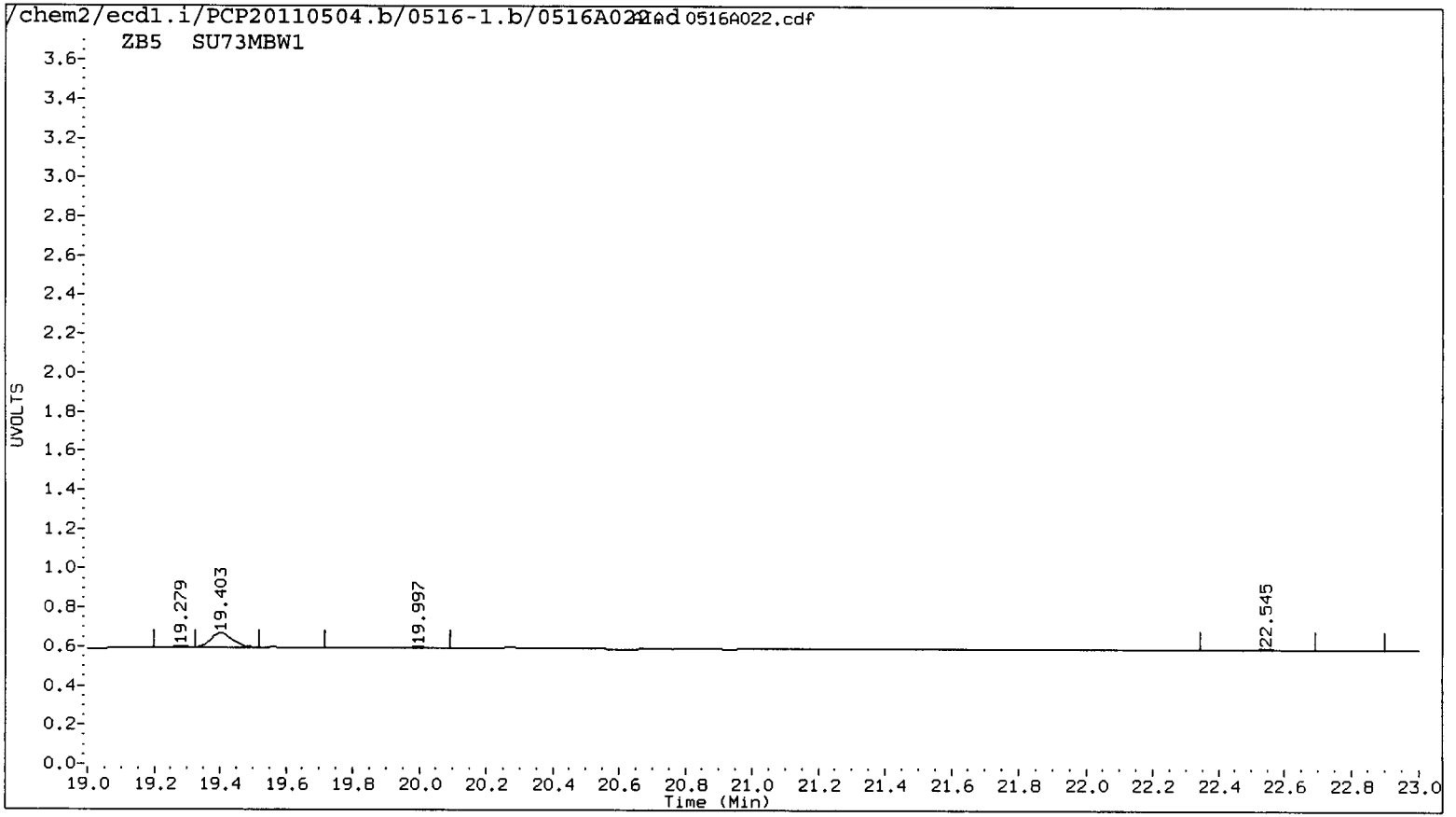
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A022.d ARI ID: SU73MBW1
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A022.d Client ID: SU73MBW1
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 00:41
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|--------|--------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| ----- | | | 22.996 | 0.029 | 1966 | 0.0000 | 0.0698 | --- | Pentachlorophenol |
| 13.080 | -0.021 | 1038 | 14.351 | 0.040 | 1544 | 0.0853 | 0.1066 | 22.2 | 2,4,6-Trichlorophenol |
| ----- | | | ----- | | | 0.0000 | 0.0000 | --- | 2,3,6-Trichlorophenol |
| ----- | | | ----- | | | 0.0000 | 0.0000 | --- | 2,4,5-Trichlorophenol |
| ----- | | | ----- | | | 0.0000 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| ----- | | | 18.758 | -0.056 | 1877 | 0.0000 | 0.0856 | --- | 2,3,5,6-Tetrachlorophenol |
| ----- | | | ----- | | | 0.0000 | 0.0000 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.592 | 0.037 | 3732 | ----- | | | 4.6263 | 0.0000 | --- | 2,4-Dichlorophenol |
| 18.603 | 0.008 | 263124 | 20.943 | 0.007 | 346454 | 16.7 | 16.5 | 1.4 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| ----- | | |
| 2,4,6-TBP (surr) | 66.8 | 65.9 |



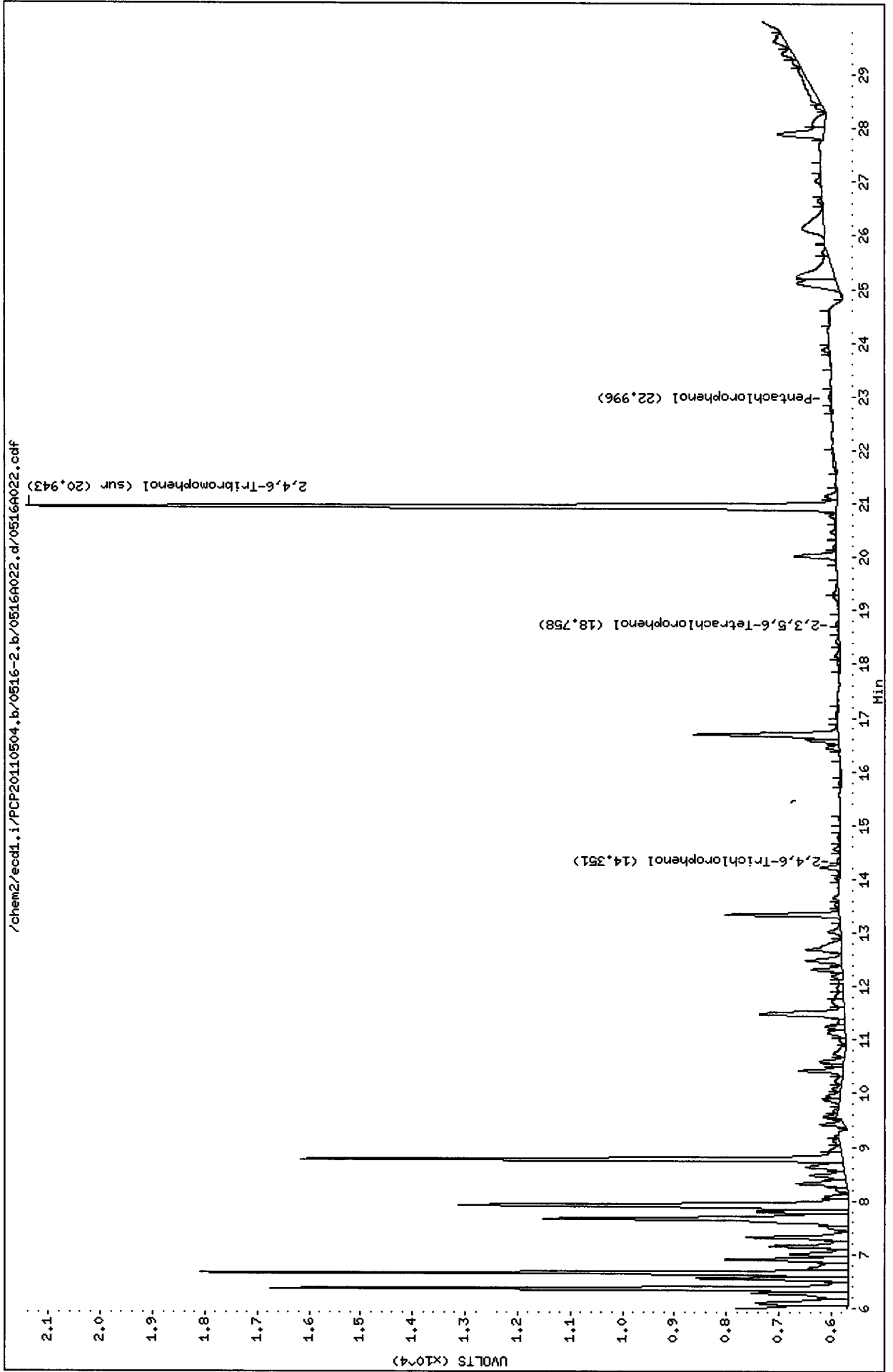


Data File: /chem2/eod1.i/PCP20110504.b/0516-2.b/0516A022.d
Date : 17-MAY-2011 00:41
Client ID: SU73MBM1
Sample Info: SU73MBM1
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: eod1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A022.d

Date : 17-MAY-2011 00:41

Client ID: SU73MBW1

Sample Info: SU73MBW1

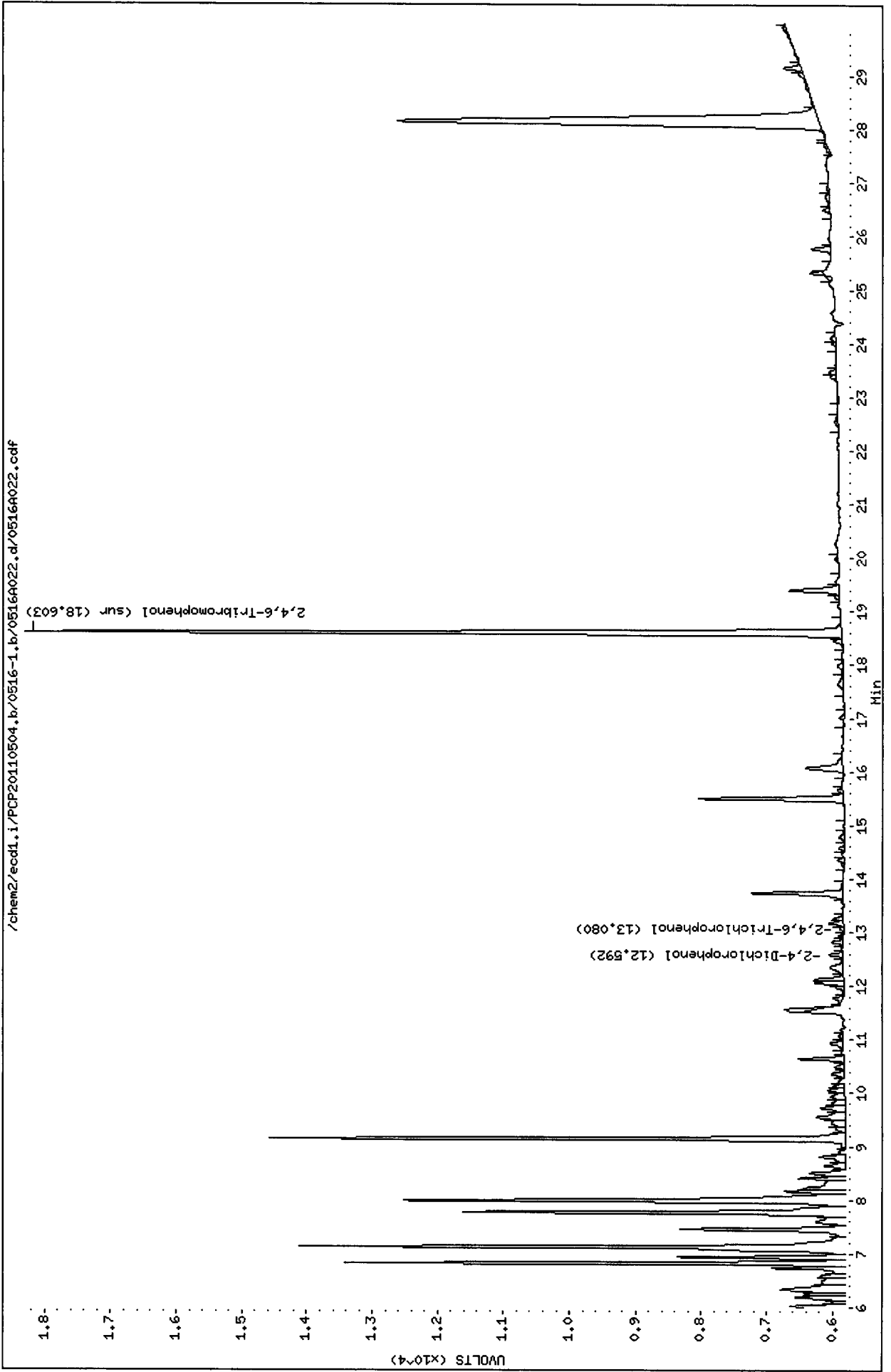
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecdl1.i

Operator: ar

Column diameter: 0.53



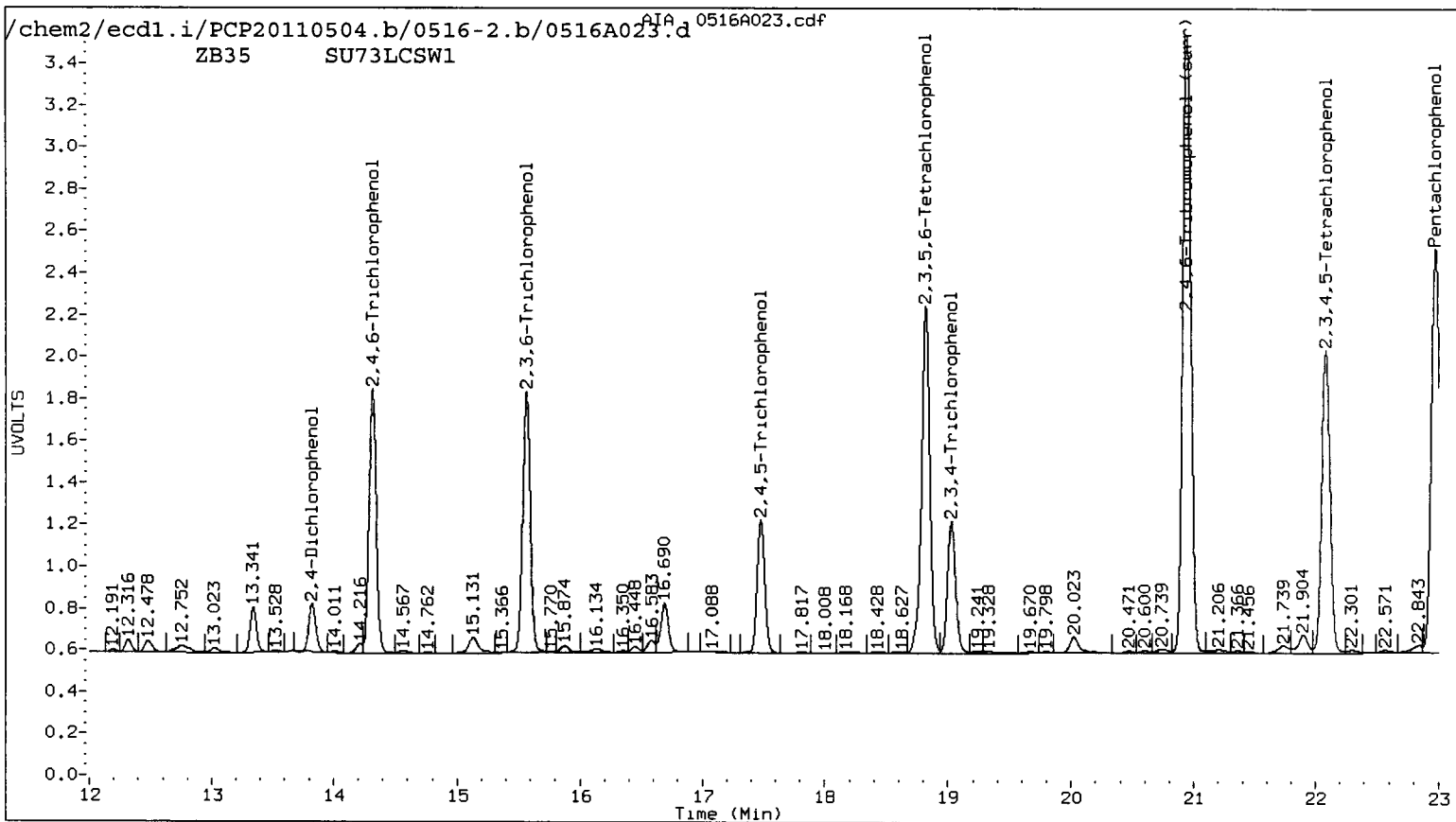
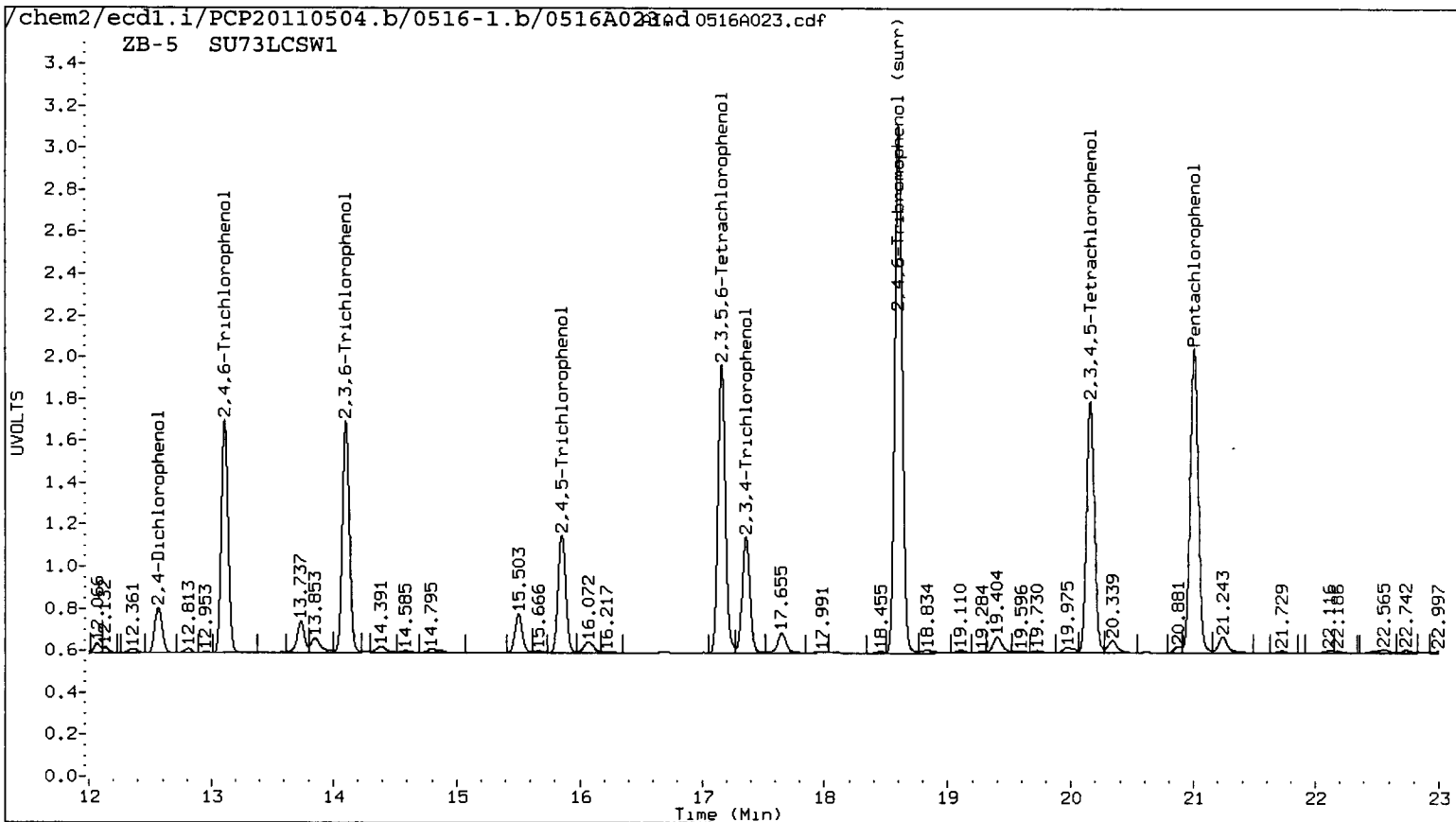
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

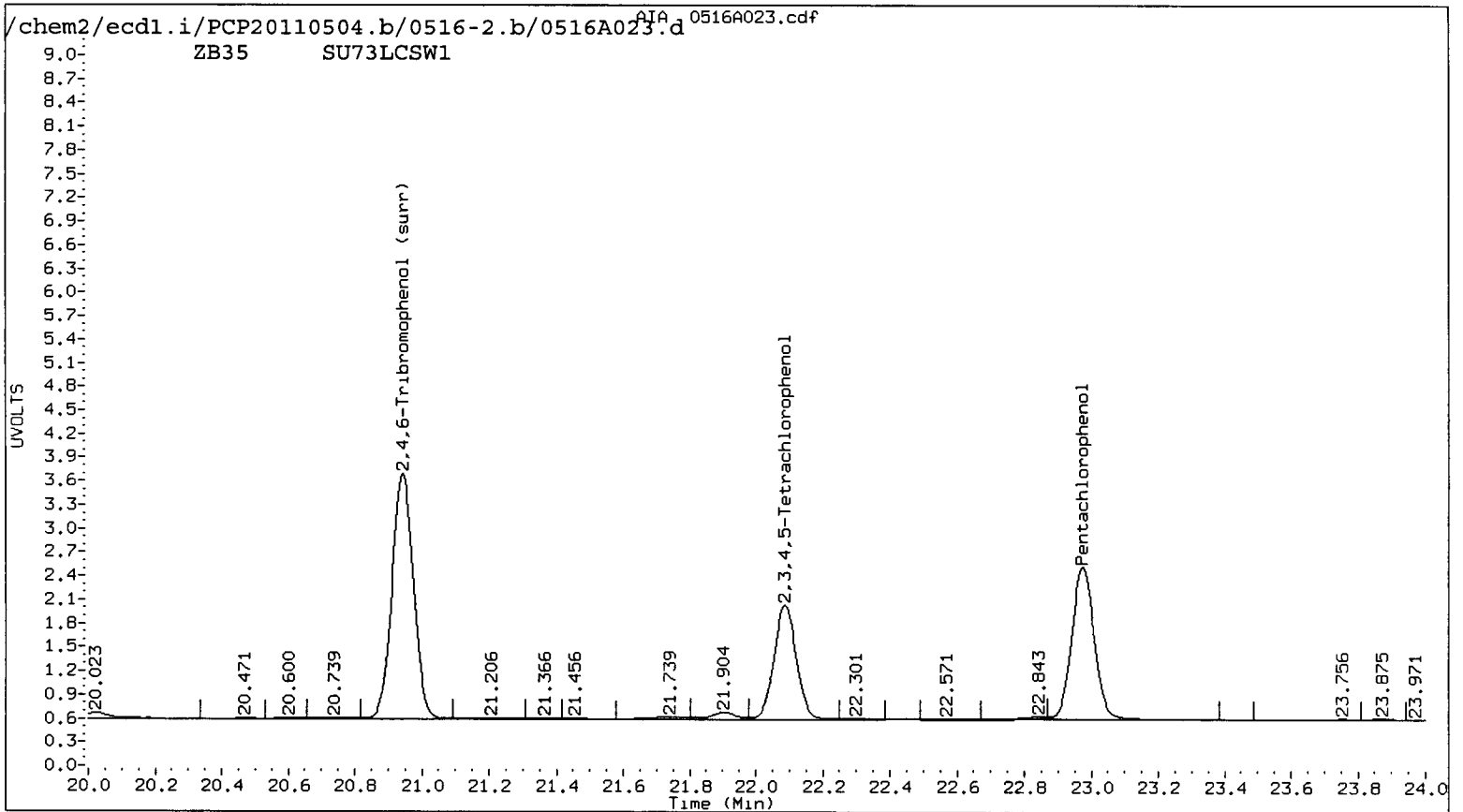
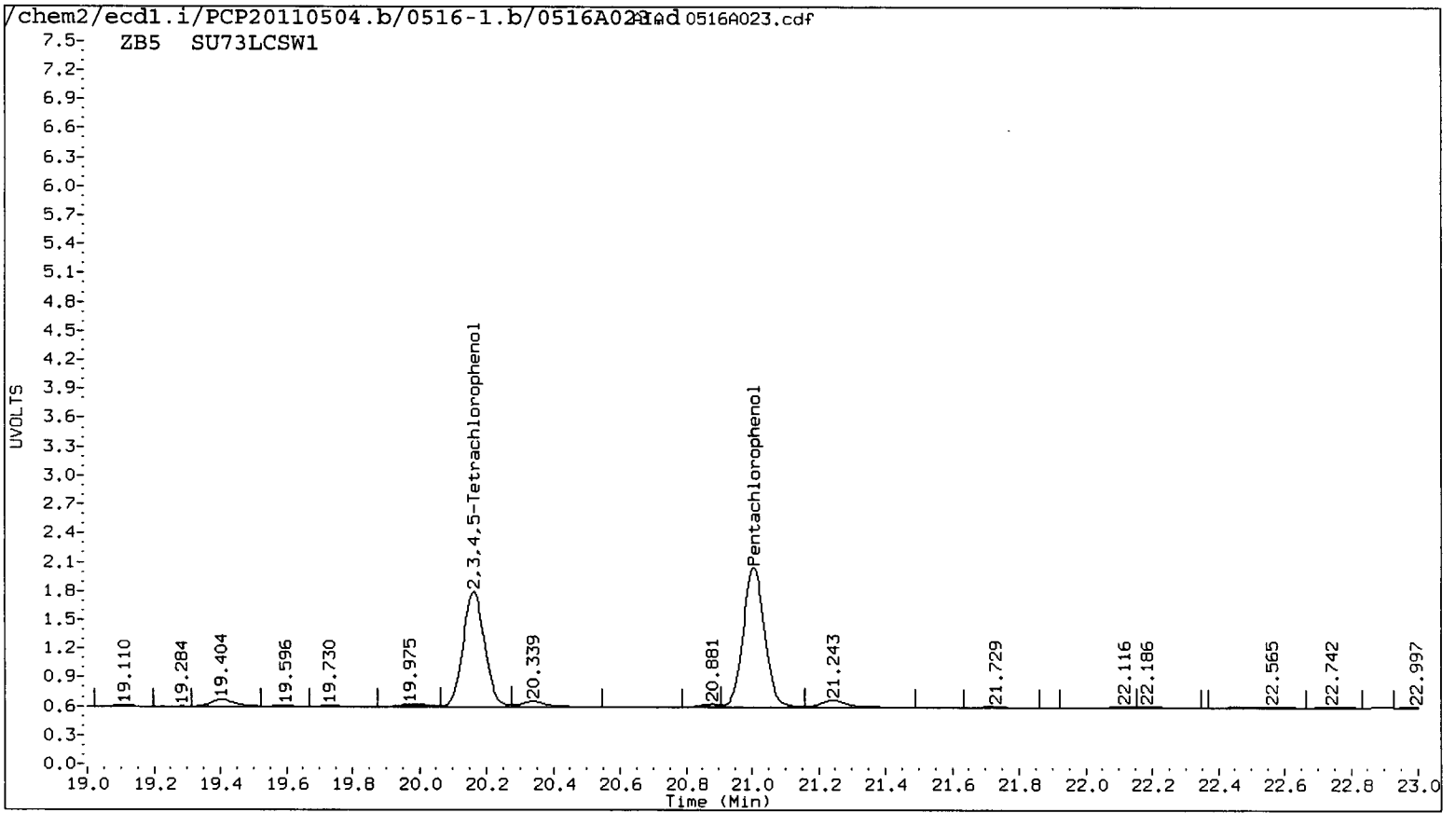
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A023.d ARI ID: SU73LCSW1
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A023.d Client ID: SU73LCSW1
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 01:17
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | RT | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|--------|----------------------------|----------------|----------------|-----|-----------------------------|
| 21.005 | 0.008 329768 | 22.975 | 0.008 460221 | 16.3664 | 16.3426 | 0.1 | Pentachlorophenol |
| 13.108 | 0.007 219345 | 14.318 | 0.007 257601 | 18.0193 | 17.7733 | 1.4 | 2,4,6-Trichlorophenol |
| 14.103 | 0.006 224057 | 15.564 | 0.007 268767 | 19.5638 | 18.6989 | 4.5 | 2,3,6-Trichlorophenol |
| 15.852 | 0.007 120186 | 17.481 | 0.007 139540 | 17.4194 | 17.2365 | 1.1 | 2,4,5-Trichlorophenol |
| 17.359 | 0.008 121979 | 19.030 | 0.007 143753 | 14.5990 | 14.9519 | 2.4 | 2,3,4-Trichlorophenol |
| 17.160 | 0.007 291934 | 18.820 | 0.006 386170 | 17.2674 | 17.6028 | 1.9 | 2,3,5,6-Tetrachlorophenol |
| 20.163 | 0.008 268613 | 22.087 | 0.007 335971 | 20.6916 | 21.6960 | 4.7 | 2,3,4,5-Tetrachlorophenol |
| 12.564 | 0.009 45042 | 13.827 | 0.007 46857 | 59.1331 | 56.4564 | 4.6 | 2,4-Dichlorophenol |
| 18.603 | 0.007 535652 | 20.943 | 0.007 695040 | 34.0 | 33.1 | 2.9 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|------|------|
| Pentachlorophenol | 65.5 | 65.4 |
| 2,4,6-Trichlorophenol | 72.1 | 71.1 |
| 2,3,6-Trichlorophenol | 78.3 | 74.8 |
| 2,4,5-Trichlorophenol | 69.7 | 68.9 |
| 2,3,4-Trichlorophenol | 58.4 | 59.8 |
| 2,3,5,6-Tetrachlorophenol | 69.1 | 70.4 |
| 2,3,4,5-Tetrachlorophenol | 82.8 | 86.8 |
| 2,4-Dichlorophenol | 23.7 | 22.6 |
| 2,4,6-TBP (surr) | 68.0 | 66.1 |





Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A023.d

Date : 17-MAY-2011 01:17

Client ID: SU73LCSM1

Sample Info: SU73LCSM1

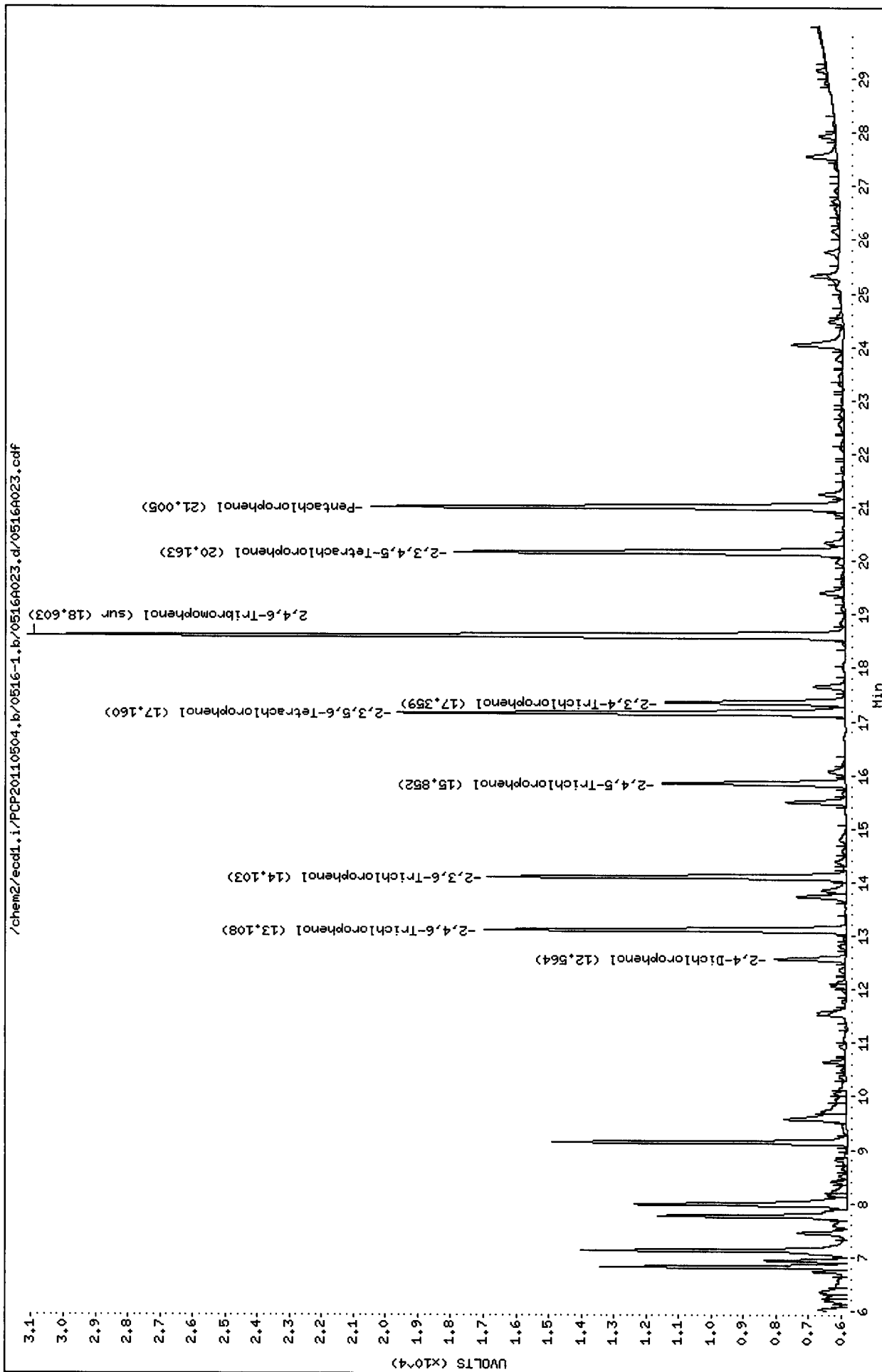
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecdl1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A023.d

Date : 17-MAY-2011 01:17

Client ID: SU73LCSM1

Sample Info: SU73LCSM1

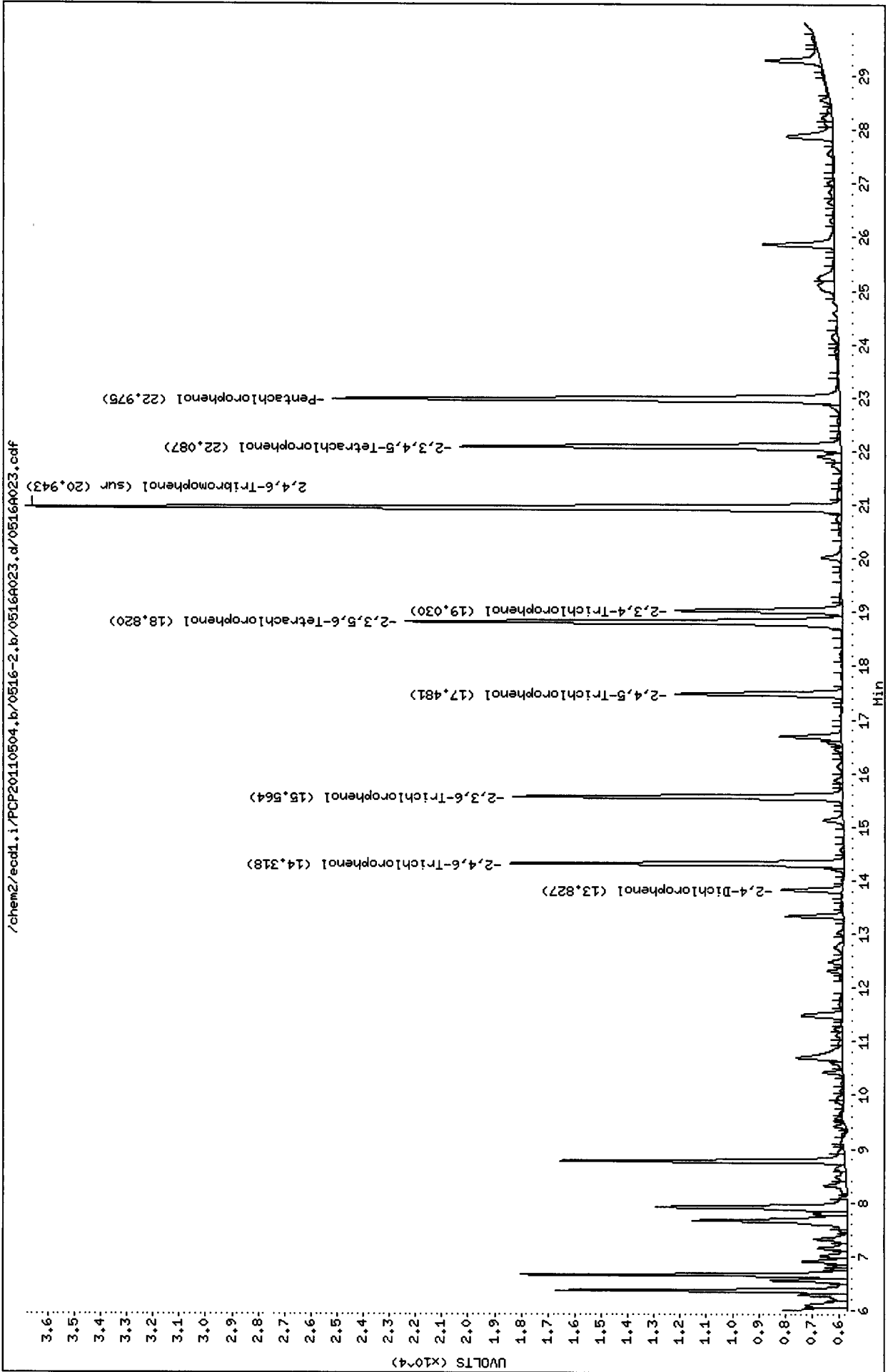
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

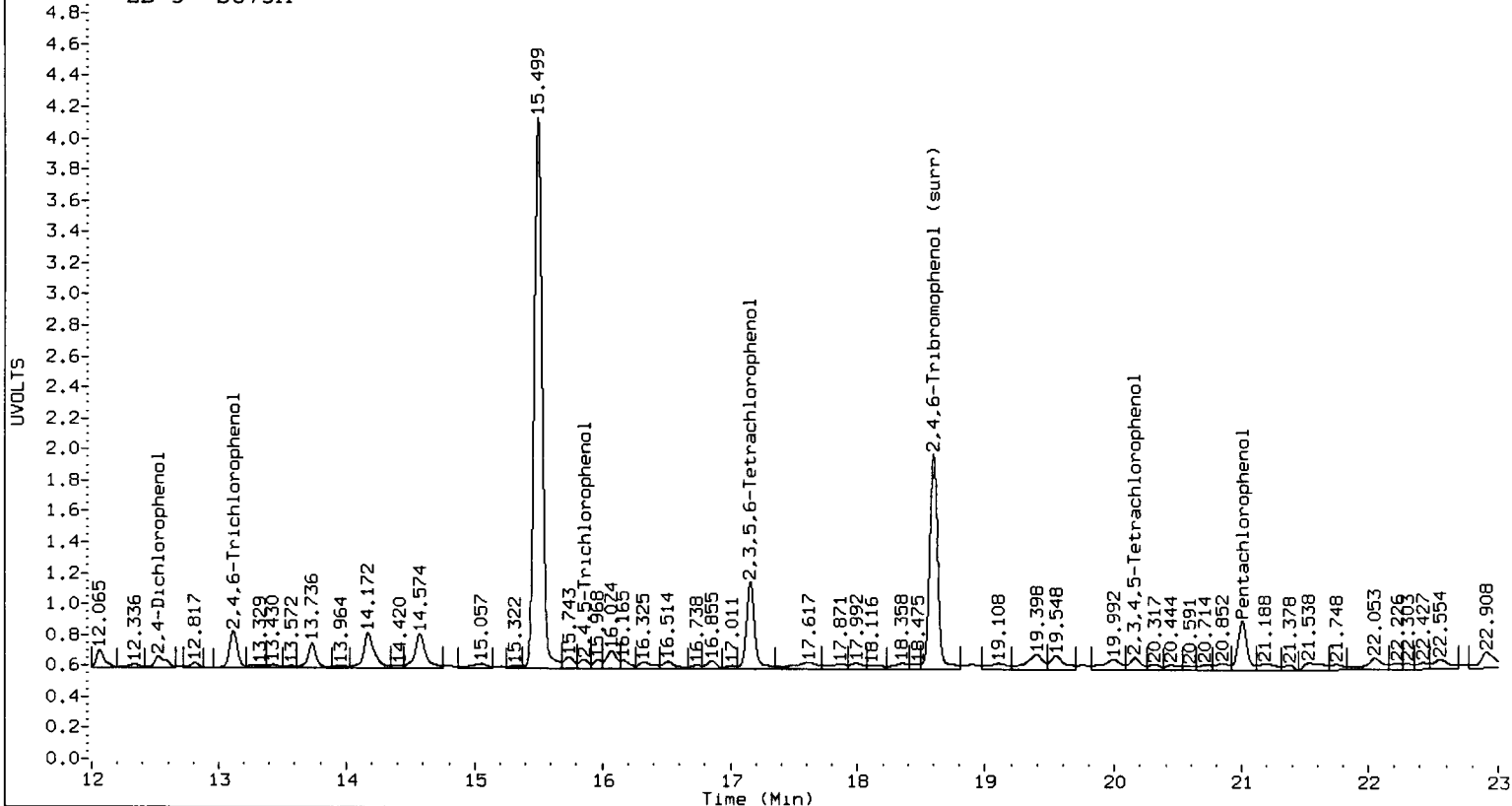
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A025.d ARI ID: SU73A
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A025.d Client ID: MW-01-042911
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 02:29
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|----------------------------|----------------|----------------|-------|-----------------------------|
| 21.004 | 0.007 78634 | 22.974 0.007 114179 | 3.9026 | 4.0546 | 3.8 | Pentachlorophenol |
| 13.119 | 0.018 53051 | 14.318 0.007 24520 | 4.3582 | 1.6918 | 88.1* | 2,4,6-Trichlorophenol |
| ----- | | 15.556 -0.001 15797 | 0.0000 | 1.0991 | --- | 2,3,6-Trichlorophenol |
| 15.859 | 0.014 14028 | 17.481 0.007 16244 | 1.8422 | 2.0065 | 8.5 | 2,4,5-Trichlorophenol |
| ----- | | 19.091 0.068 13075 | 0.0000 | 1.2551 | --- | 2,3,4-Trichlorophenol |
| 17.158 | 0.006 128890 | 18.820 0.006 170386 | 7.6236 | 7.7667 | 1.9 | 2,3,5,6-Tetrachlorophenol |
| 20.161 | 0.006 23267 | 22.085 0.005 22214 | 1.7923 | 1.3055 | 31.4 | 2,3,4,5-Tetrachlorophenol |
| 12.527 | -0.028 22218 | 13.799 -0.021 56529 | 28.2710 | 69.0471 | 83.8* | 2,4-Dichlorophenol |
| 18.601 | 0.006 310947 | 20.942 0.006 388041 | 19.7 | 18.5 | 6.8 | 2,4,6-Tribromophenol (surr) |

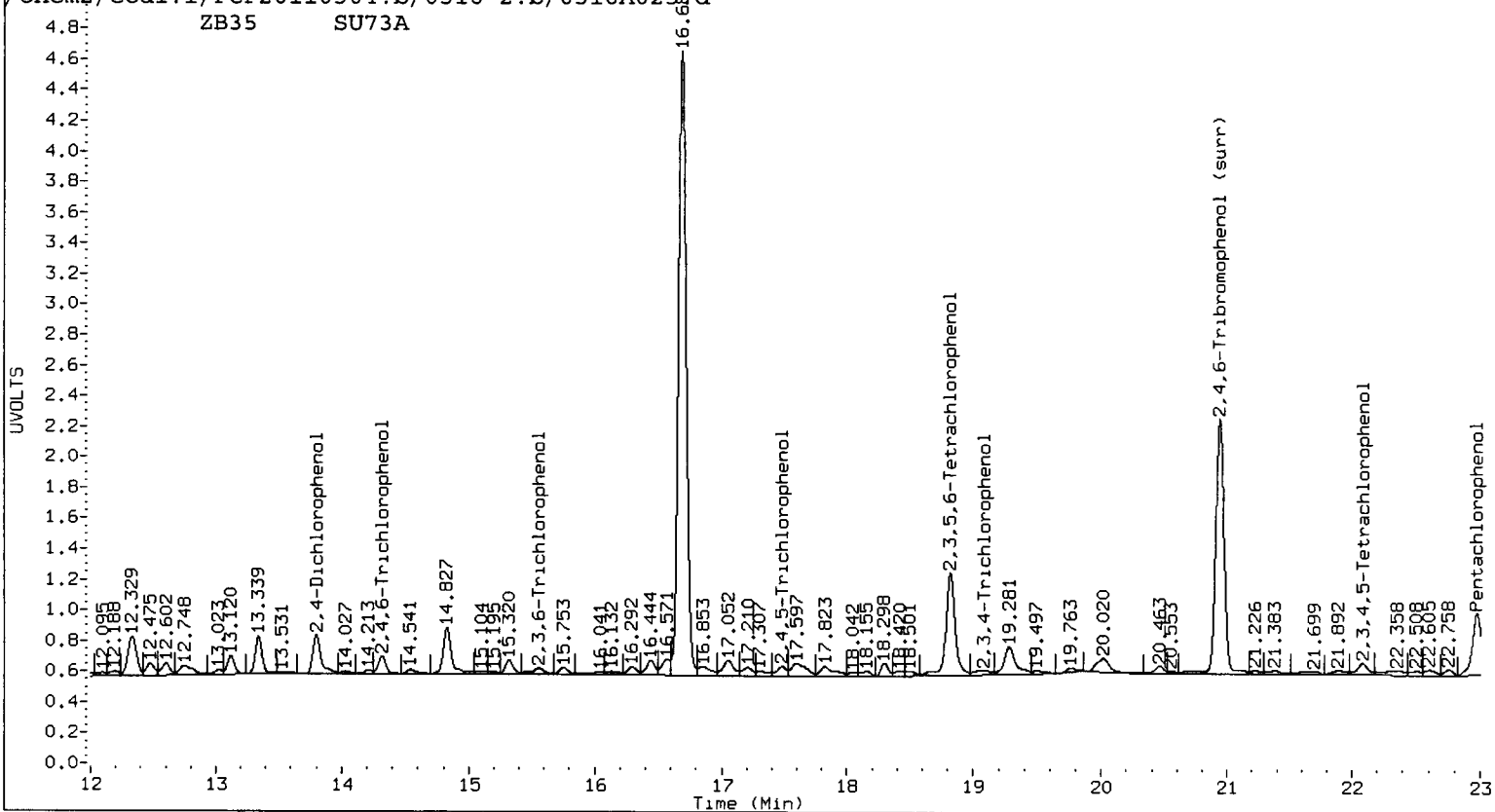
PERCENT RECOVERY

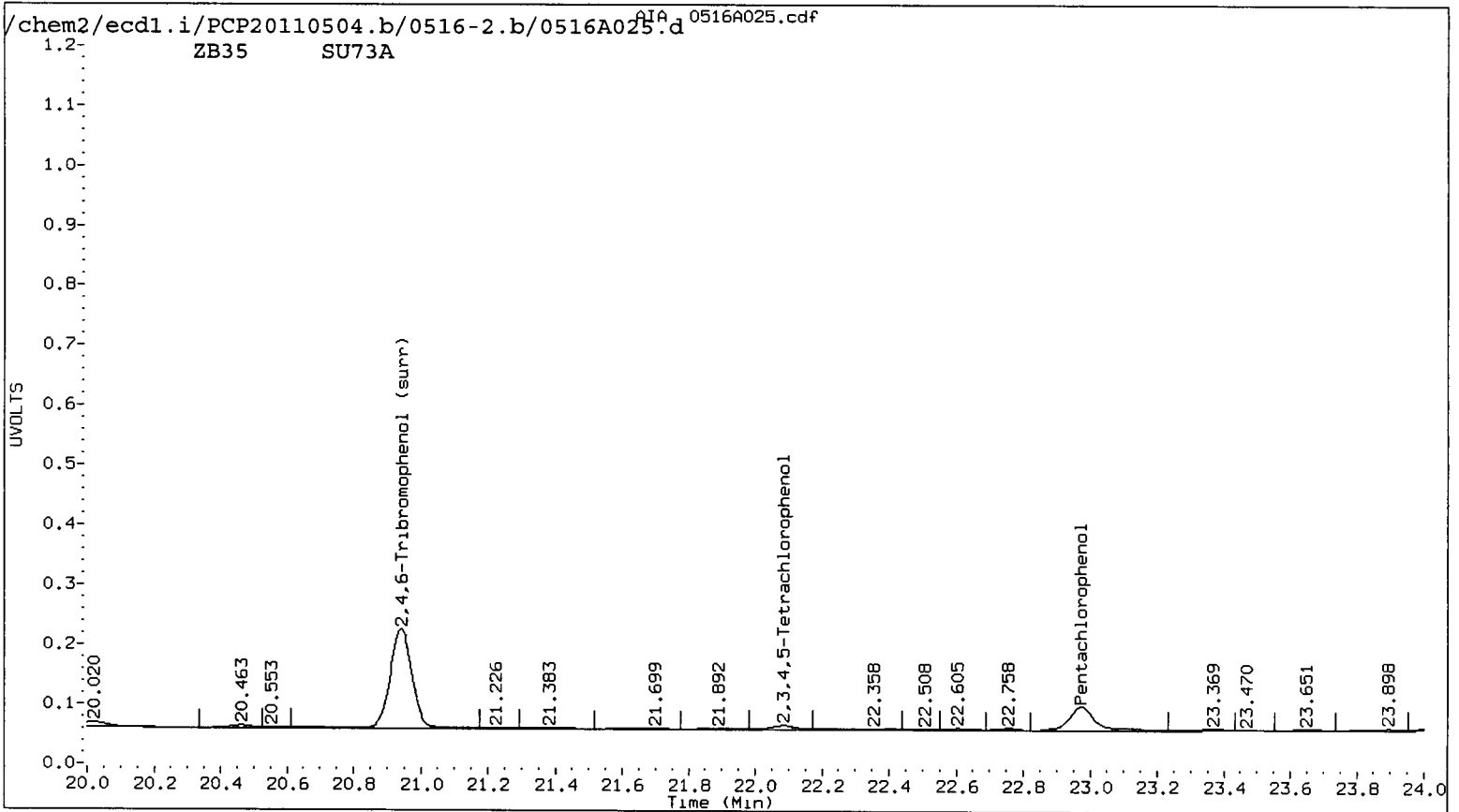
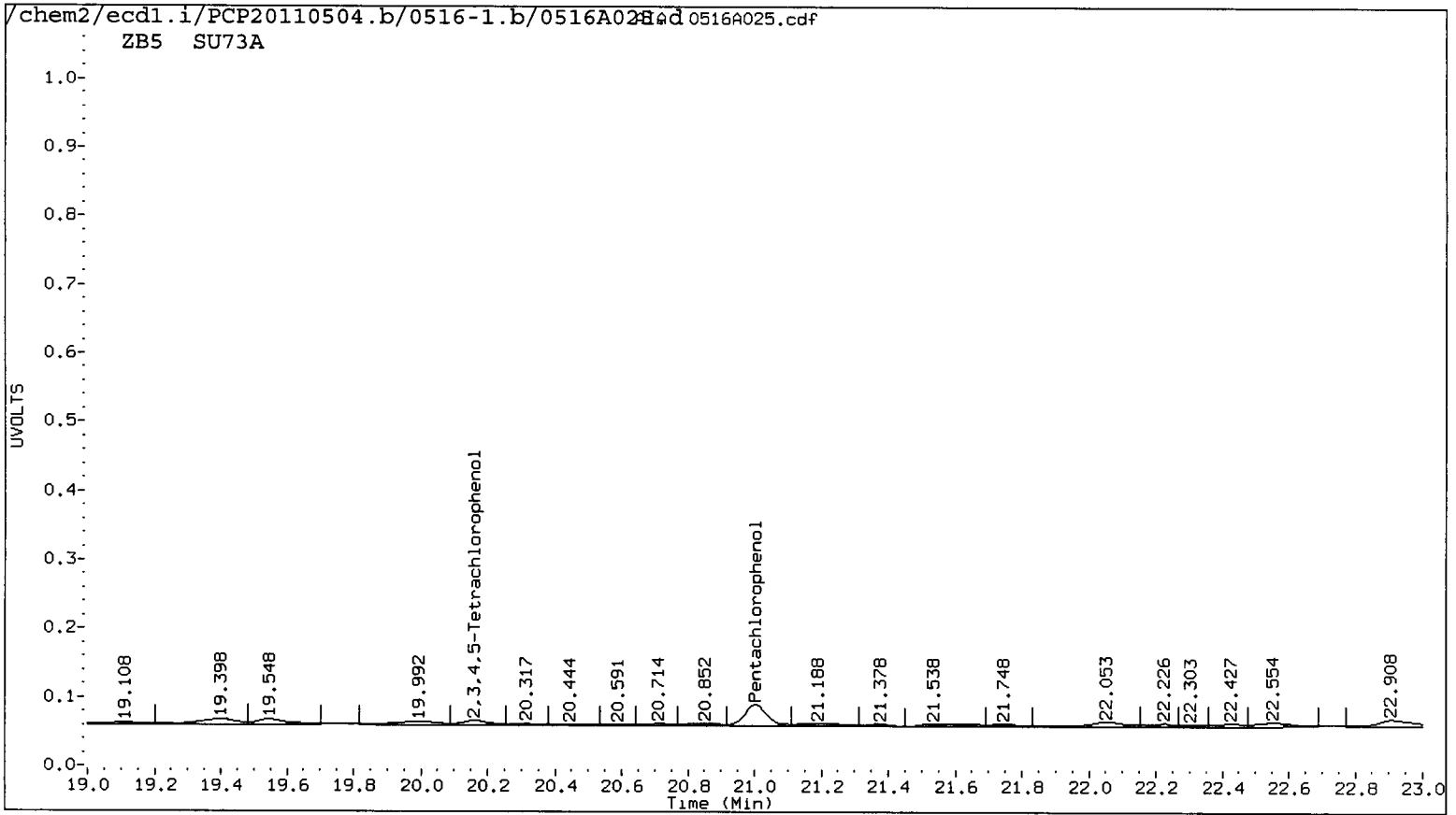
| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 79.0 | 73.8 |

ZB-5 SU73A



ZB35 SU73A





Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A025.d

Date : 17-MAY-2011 02:29

Client ID: MW-01-042911

Sample Info: SU73A

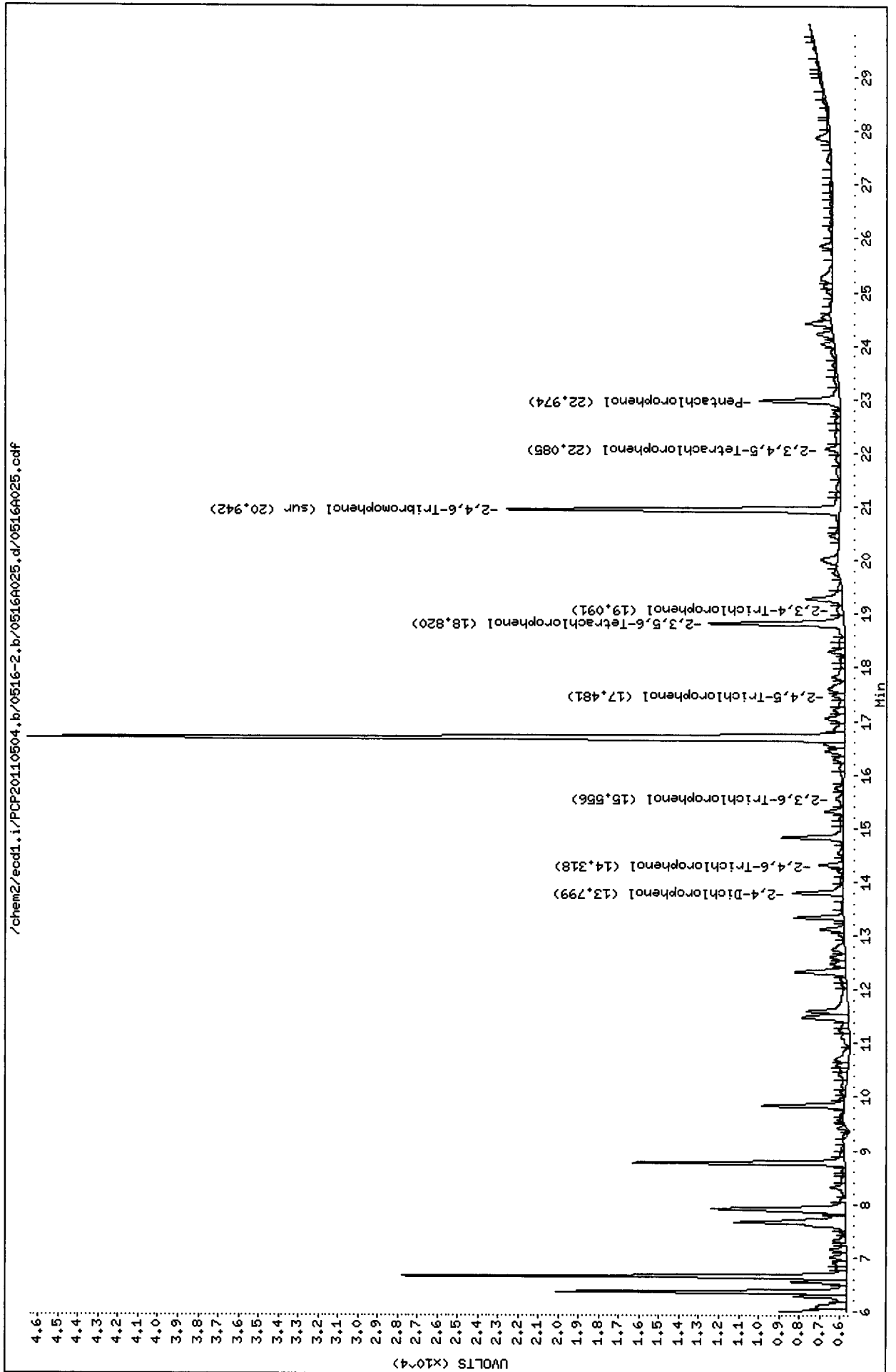
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

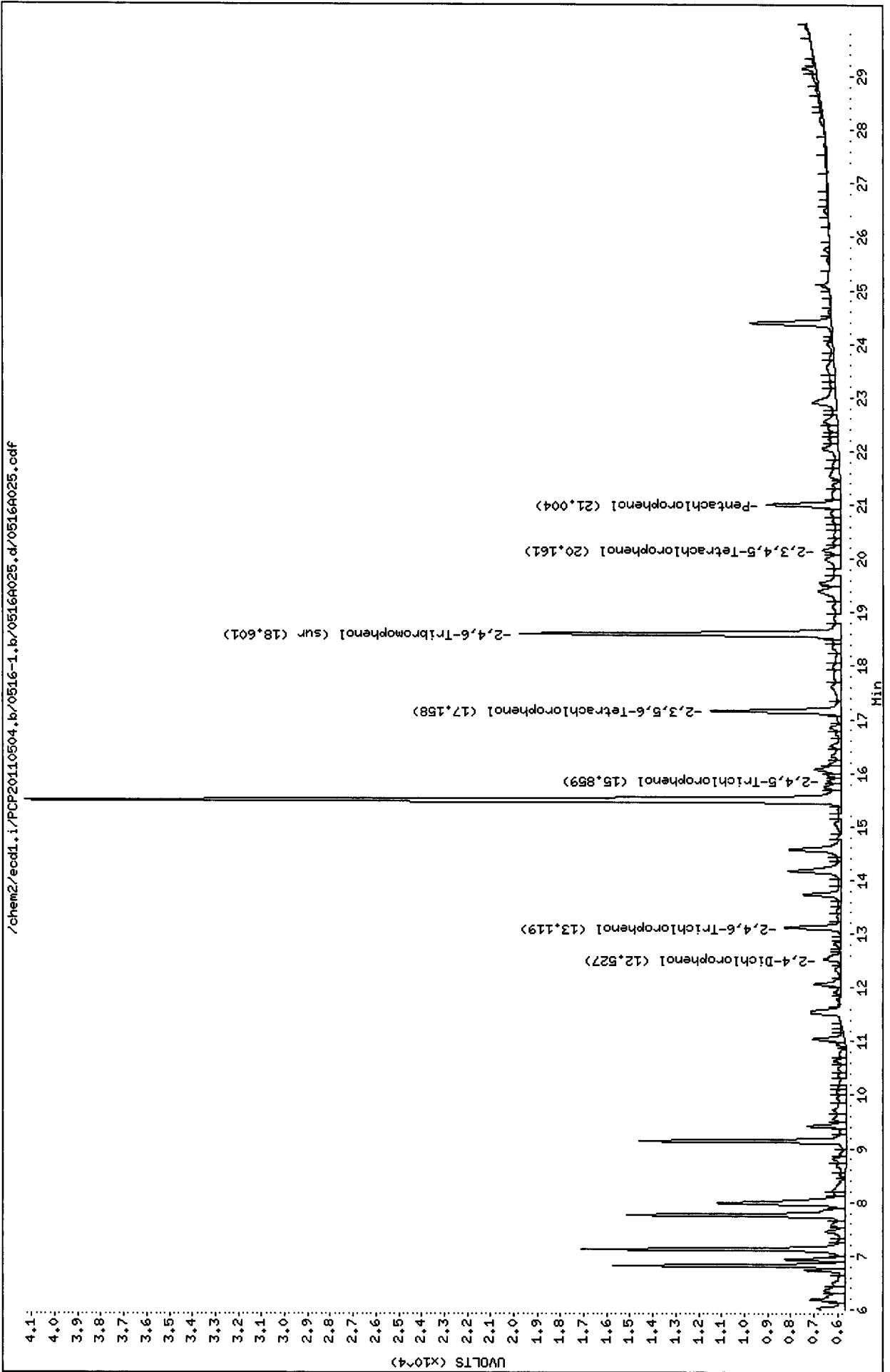
Operator: ar

Column diameter: 0.53



Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A025.d
Date: 17-MAY-2011 02:29
Client ID: MM-01-042911
Sample Info: SU73A
Purge Volume: 500.0
Column phase: STX CLP1

Instrument: ecdl1.1
Operator: ar
Column diameter: 0.53



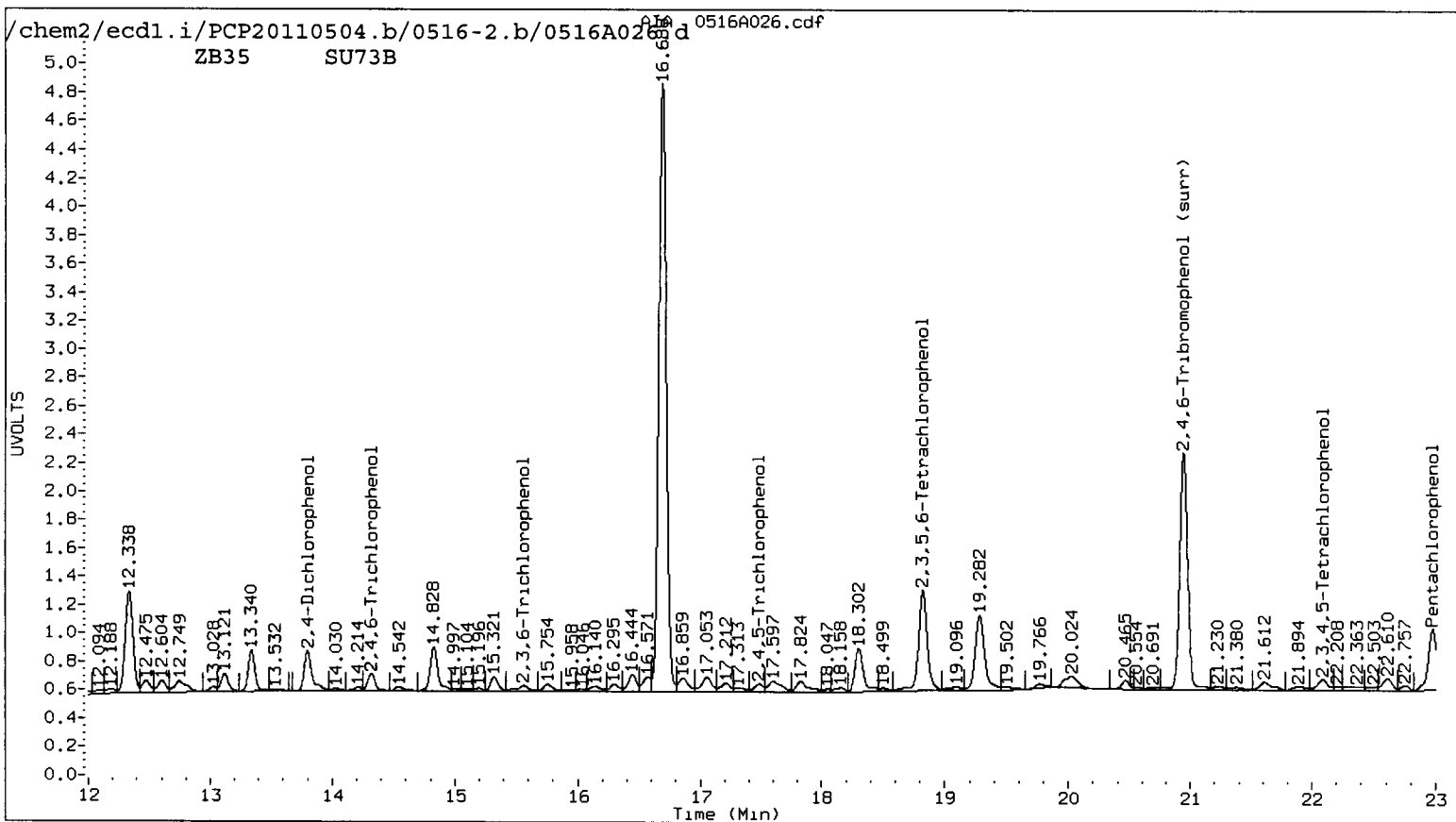
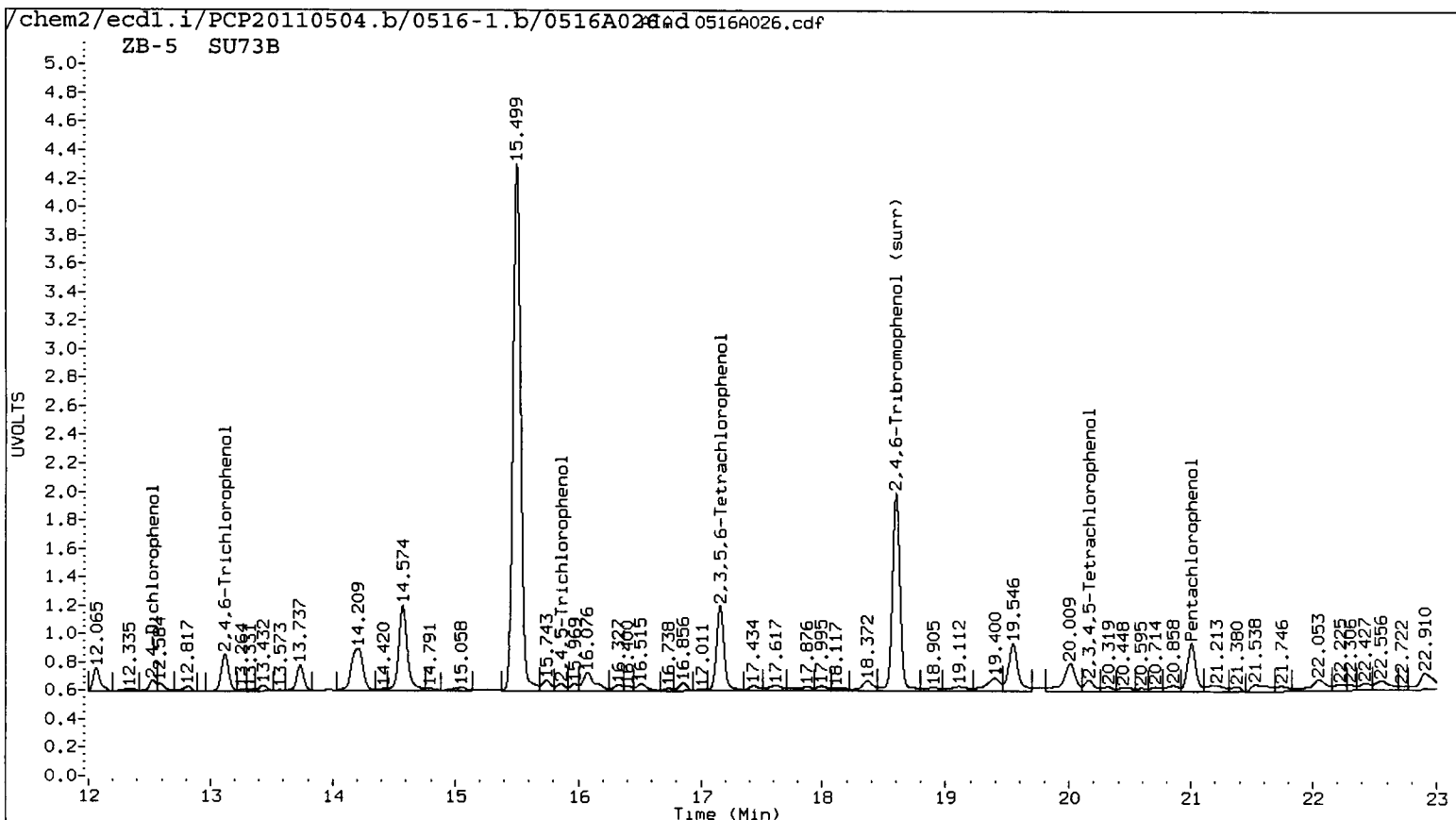
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

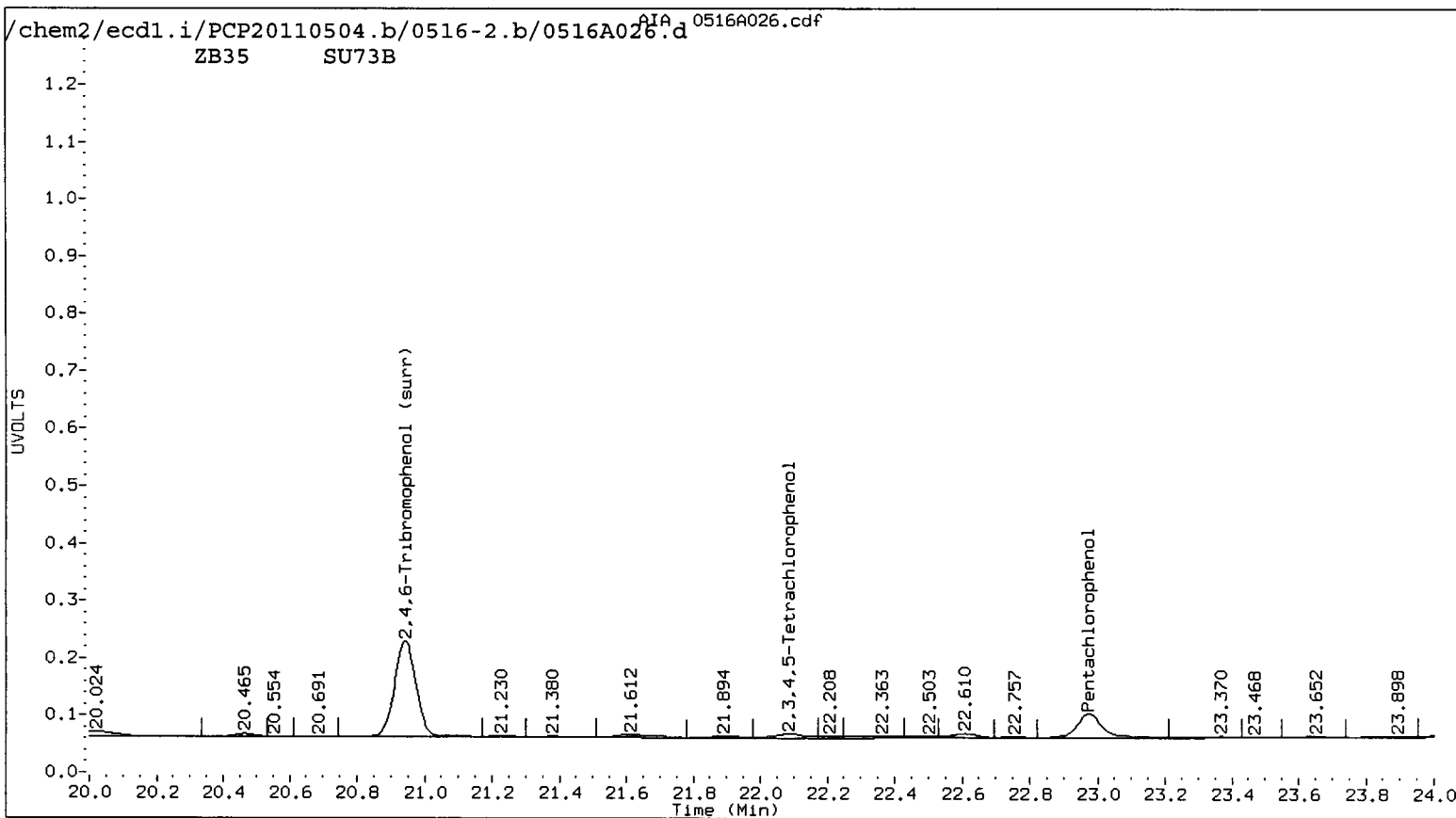
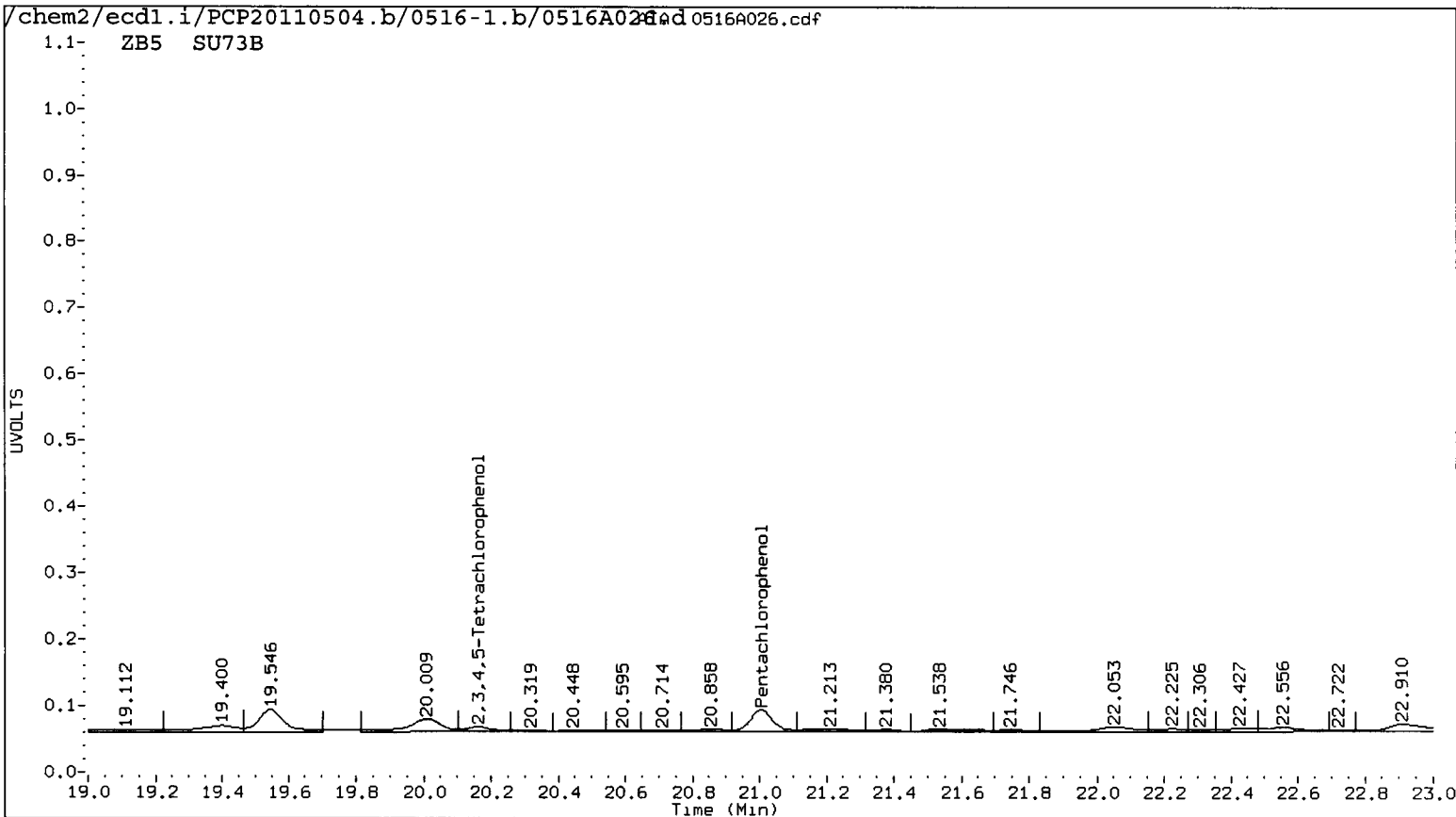
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A026.d ARI ID: SU73B
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A026.d Client ID: MW-01-042911-D
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 03:06
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| RT | ZB-5 Col Shift Response | ZB35 Col Shift Response | RT | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|----------------------------|--------|----------------|----------------|--------|-----------------------------|
| 21.005 | 0.008 82922 | 0.008 119682 | 22.975 | 4.1154 | 4.2500 | 3.2 | Pentachlorophenol |
| 13.121 | 0.020 57747 | 0.008 26142 | 14.319 | 4.7440 | 1.8037 | 89.8* | 2,4,6-Trichlorophenol |
| ---- | | 0.002 13247 | 15.559 | 0.0000 | 0.9217 | --- | 2,3,6-Trichlorophenol |
| 15.859 | 0.014 11238 | 0.009 13446 | 17.483 | 1.4718 | 1.6610 | 12.1 | 2,4,5-Trichlorophenol |
| ---- | | | ---- | 0.0000 | 0.0000 | --- | 2,3,4-Trichlorophenol |
| 17.159 | 0.007 131934 | 0.007 175132 | 18.821 | 7.8037 | 7.9831 | 2.3 | 2,3,5,6-Tetrachlorophenol |
| 20.162 | 0.007 23053 | 0.007 23314 | 22.087 | 1.7759 | 1.3707 | 25.8 | 2,3,4,5-Tetrachlorophenol |
| 12.528 | -0.027 16010 | -0.020 65269 | 13.800 | 20.1950 | 80.7014 | 119.9* | 2,4-Dichlorophenol |
| 18.603 | 0.007 312665 | 0.007 381091 | 20.943 | 19.9 | 18.1 | 9.1 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

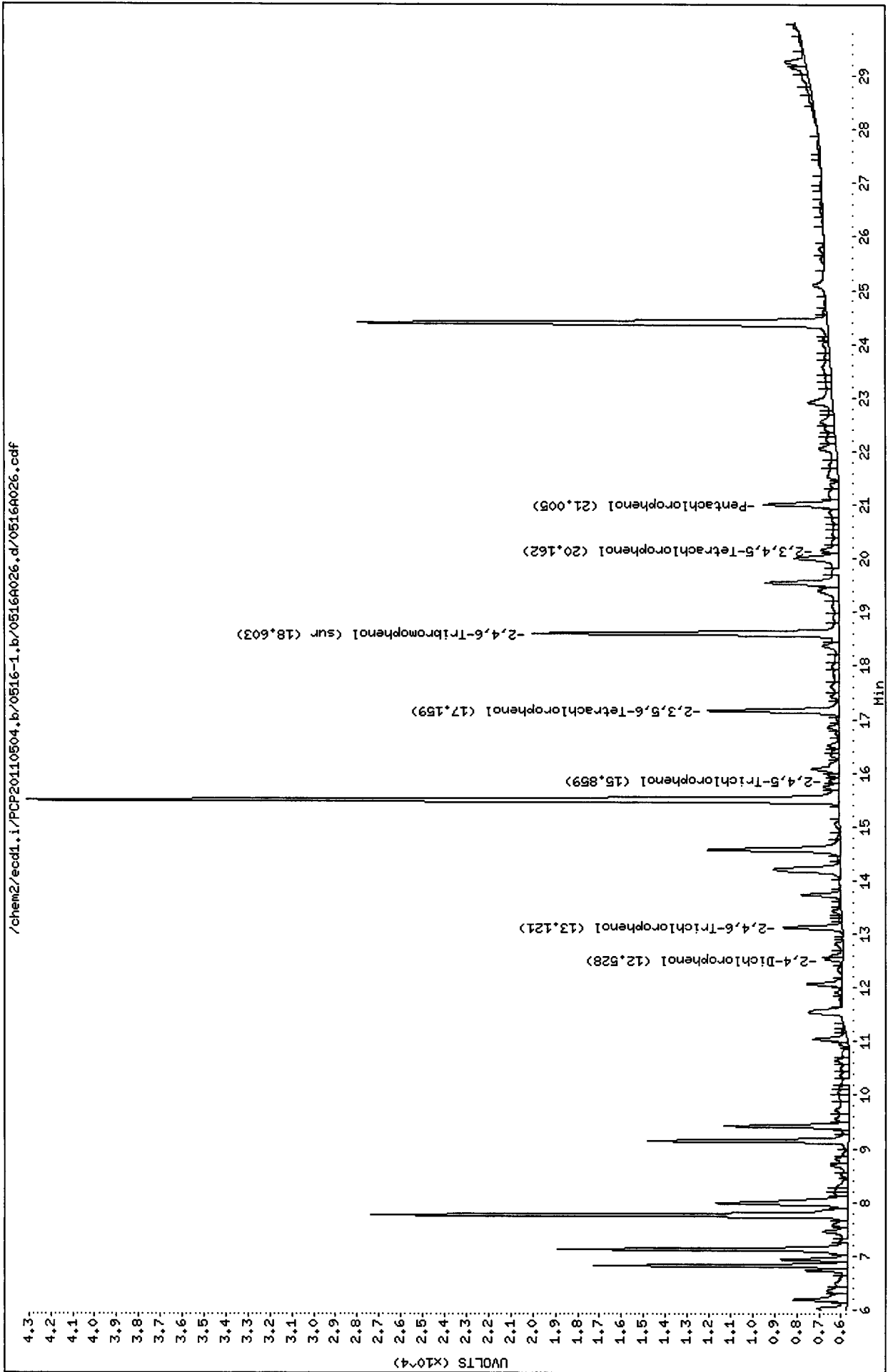
| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 79.4 | 72.5 |





Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A026.d
Date : 17-MAY-2011 03:06
Client ID: MW-01-042911-D
Sample Info: SU73B
Purge Volume: 500.0
Column phase: STX CLP1

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/eod1.i/PCP20110504.b/0516-2.b/0516A026.d

Date : 17-MAY-2011 03:06

Client ID: MW-01-042911-D

Sample Info: SU73B

Purge Volume: 500.0

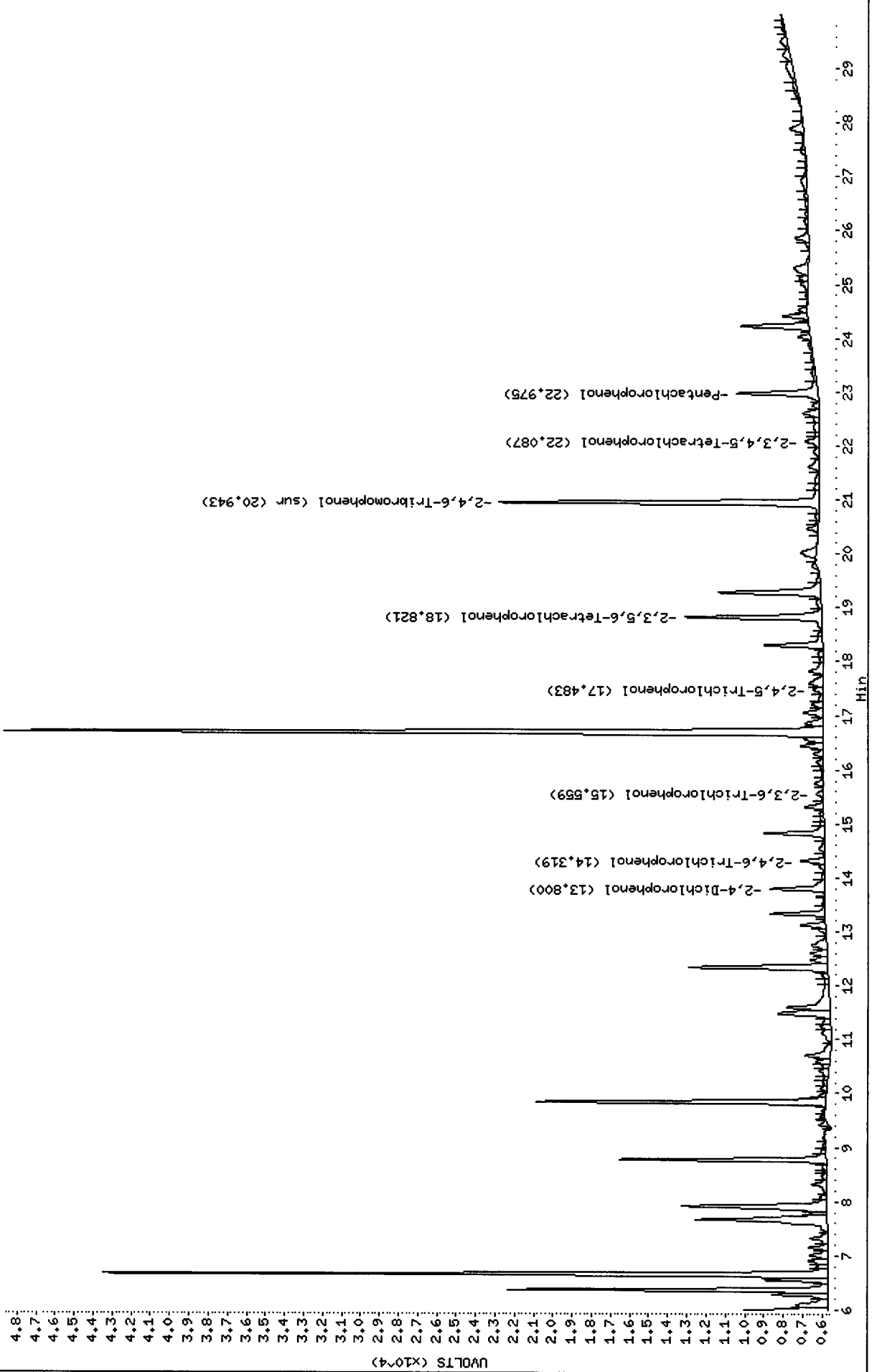
Column phase: STX CLP2

Instrument: eod1.i

Operator: ar

Column diameter: 0.53

/chem2/eod1.i/PCP20110504.b/0516-2.b/0516A026.d/0516A026.cdf



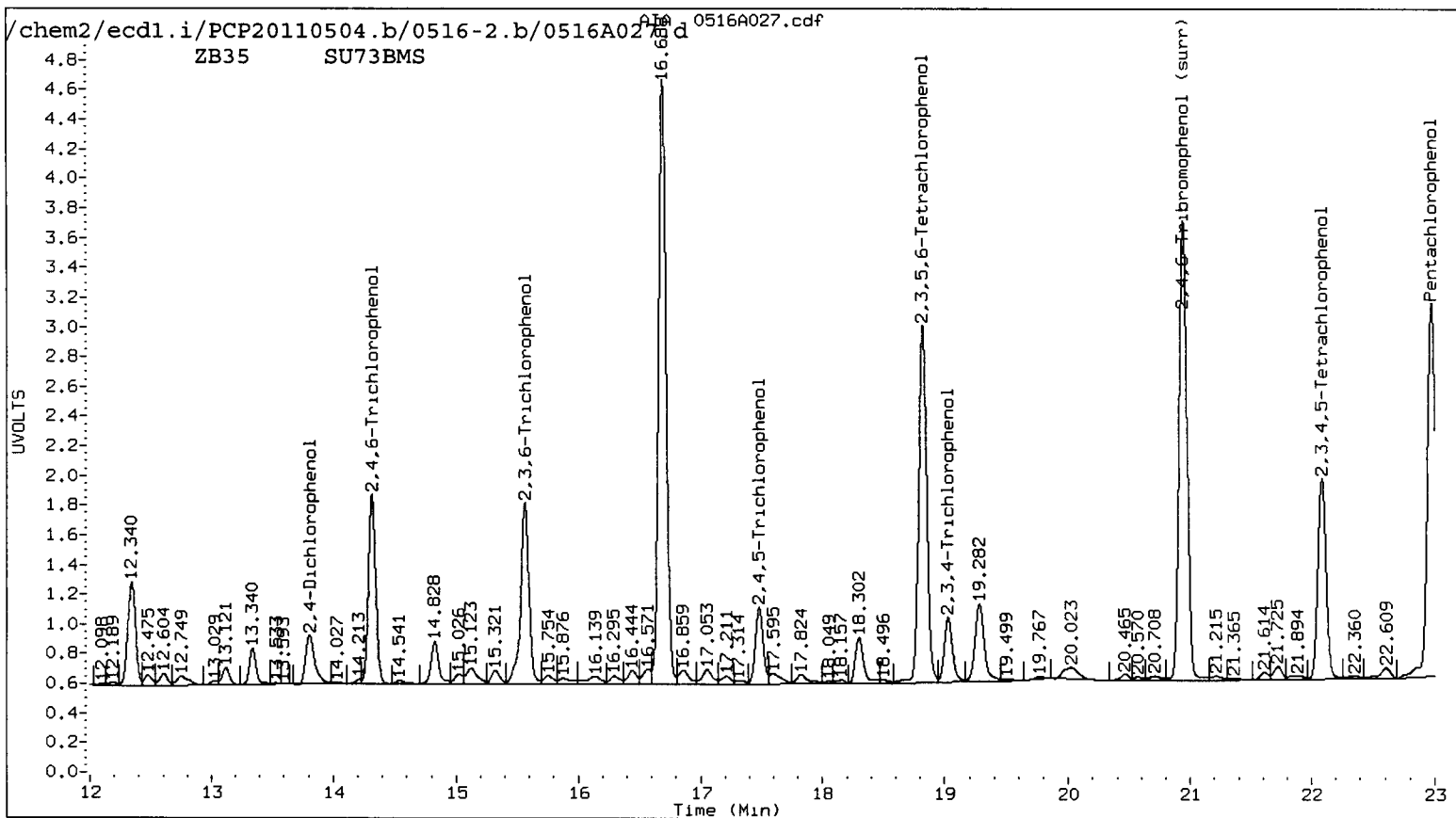
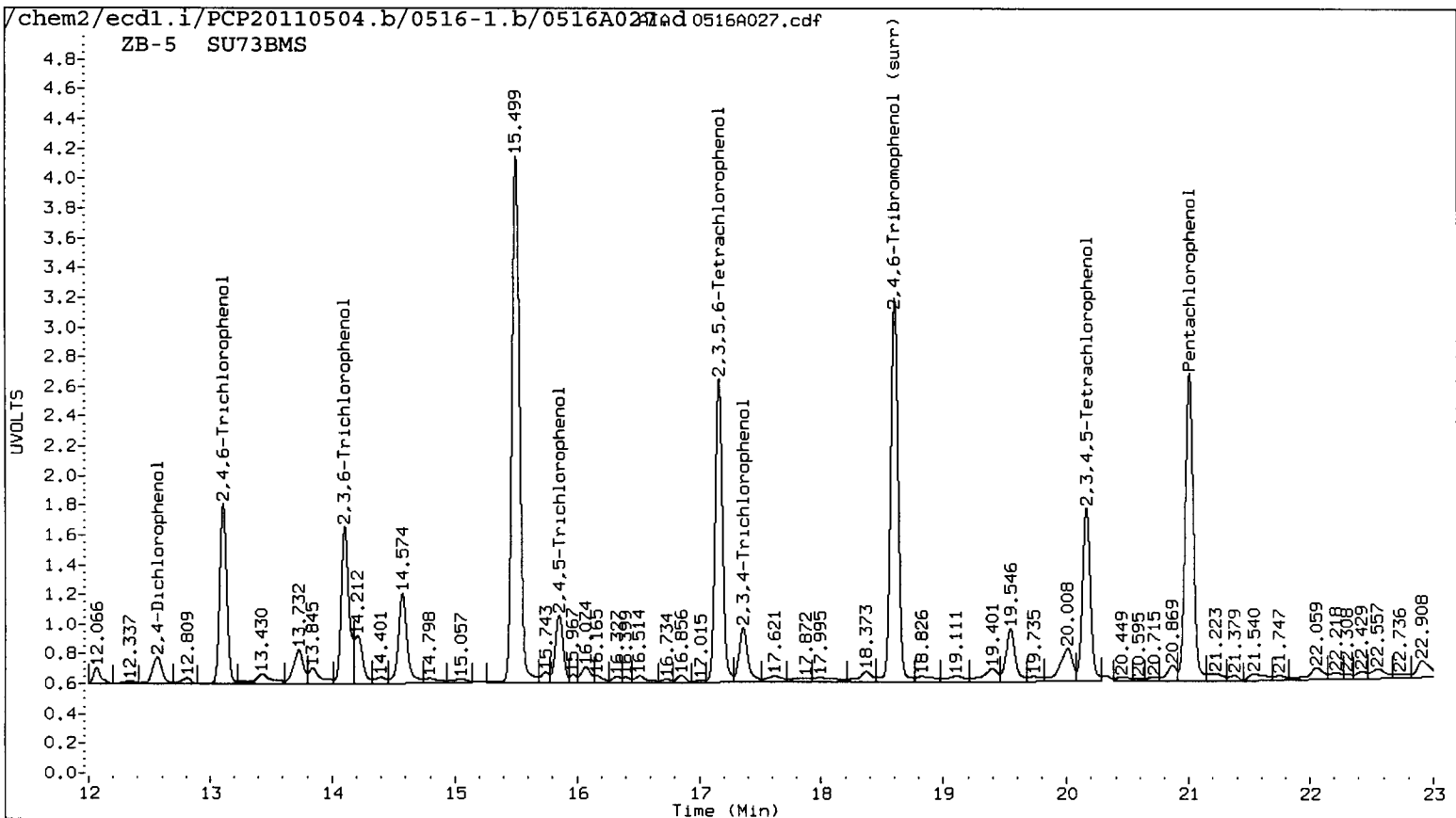
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A027.d ARI ID: SU73BMS
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A027.d Client ID: MW-01-042911-D MS
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 03:42
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

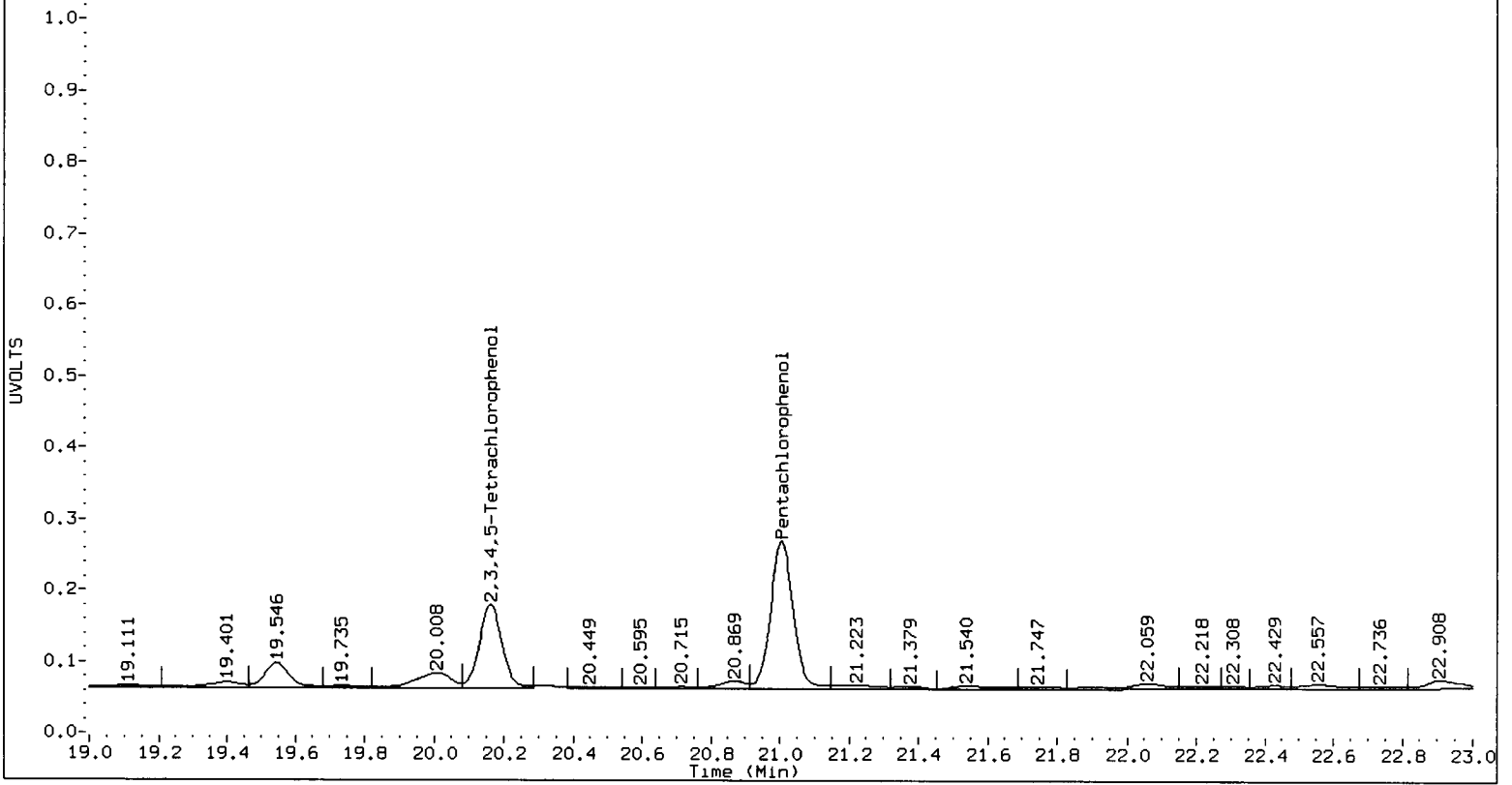
| RT | ZB-5 Col Shift Response | RT | ZB35 Col Shift Response | ZB-5 on col | ZB35 on col | RPD | Compound |
|--------|----------------------------|--------|----------------------------|----------------|----------------|-------|-----------------------------|
| 21.005 | 0.008 / 474298 | 22.975 | 0.008 / 613655 | 23.5394 | 21.7911 / | 7.7 | Pentachlorophenol |
| 13.109 | 0.008 245828 | 14.318 | 0.007 260570 | 20.1949 | 17.9781 | 11.6 | 2,4,6-Trichlorophenol |
| 14.103 | 0.006 238074 | 15.563 | 0.006 292253 | 20.7877 | 20.3329 | 2.2 | 2,3,6-Trichlorophenol |
| 15.853 | 0.008 100746 | 17.481 | 0.007 115391 | 14.3506 | 14.2535 | 0.7 | 2,4,5-Trichlorophenol |
| 17.359 | 0.007 94239 | 19.031 | 0.008 101465 | 11.2789 | 10.2901 | 9.2 | 2,3,4-Trichlorophenol |
| 17.159 | 0.007 435825 | 18.821 | 0.007 545259 | 25.7782 | 24.8546 | 3.6 | 2,3,5,6-Tetrachlorophenol |
| 20.162 | 0.007 268031 | 22.087 | 0.007 309262 | 20.6468 | 19.8184 | 4.1 | 2,3,4,5-Tetrachlorophenol |
| 12.561 | 0.006 / 49251 | 13.809 | -0.011 86160 | 65.0262 | 109.6186 | 51.1* | 2,4-Dichlorophenol |
| 18.602 | 0.007 / 562865 | 20.944 | 0.008 / 692585 | 35.8 | 32.9 / | 8.2 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

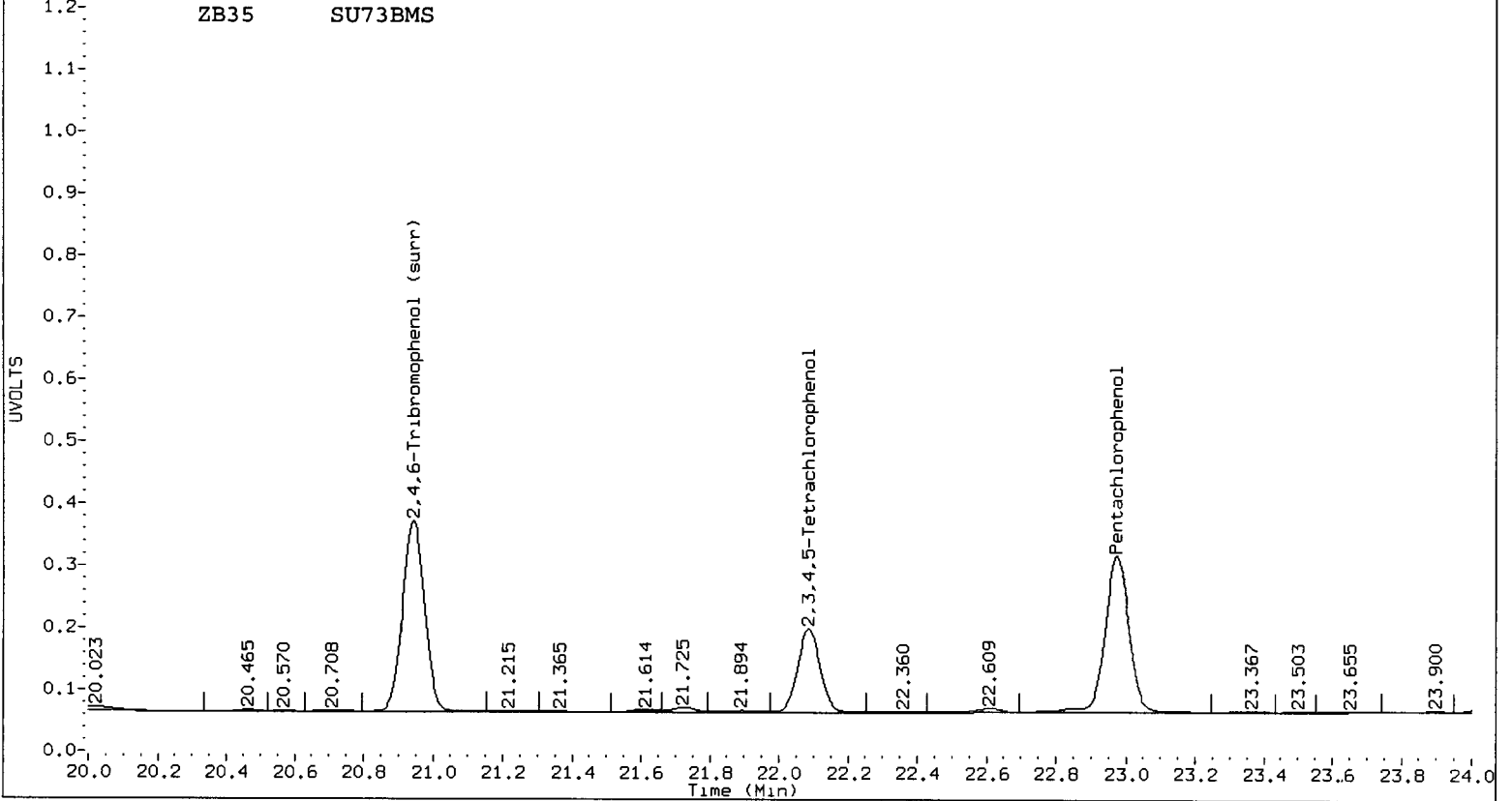
| COMPOUND | Col1 | Col2 |
|---------------------------|-------|--------|
| Pentachlorophenol | 94.2 | 87.2 / |
| 2,4,6-Trichlorophenol | 80.8 | 71.9 |
| 2,3,6-Trichlorophenol | 83.2 | 81.3 |
| 2,4,5-Trichlorophenol | 57.4 | 57.0 |
| 2,3,4-Trichlorophenol | 45.1 | 41.2 |
| 2,3,5,6-Tetrachlorophenol | 103.1 | 99.4 |
| 2,3,4,5-Tetrachlorophenol | 82.6 | 79.3 |
| 2,4-Dichlorophenol | 26.0 | 43.8 |
| 2,4,6-TBP (surr) | 71.5 | 65.9 / |



ZB5 SU73BMS

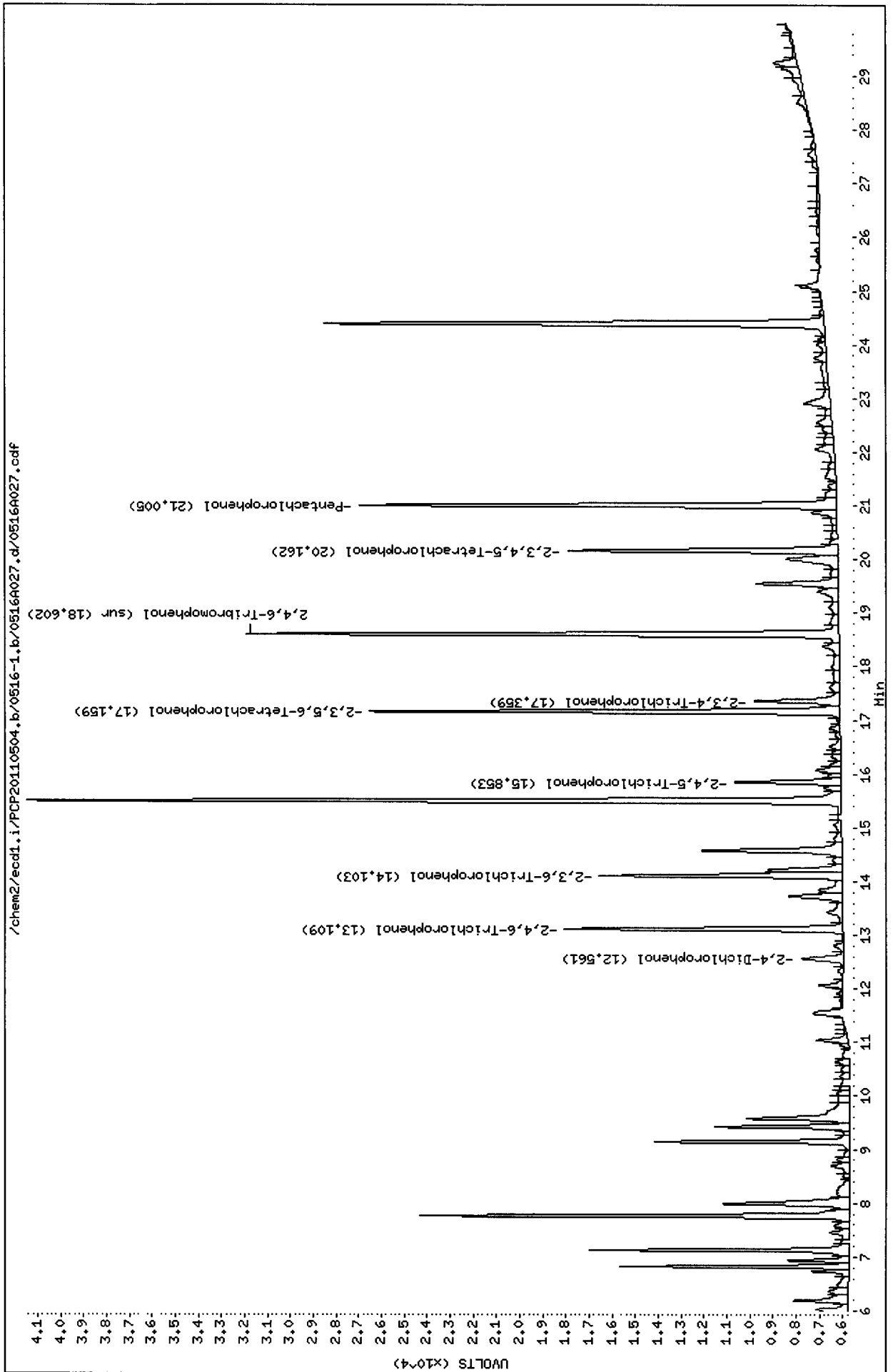


ZB35 SU73BMS



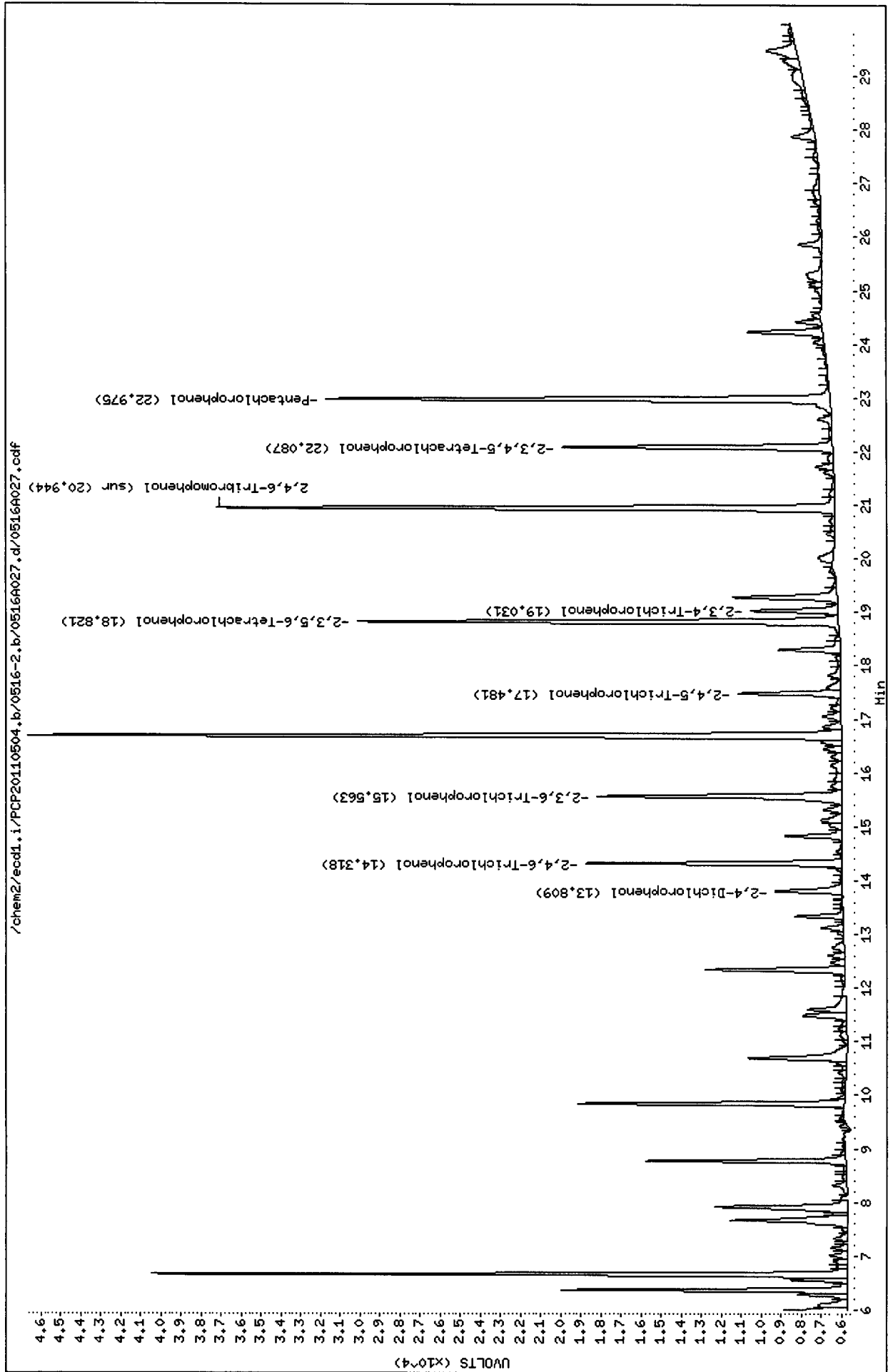
Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A027.d
Date : 17-MAY-2011 03:42
Client ID: MM-01-042911-D MS
Sample Info: SU73BMS
Purge Volume: 500.0
Column phase: STX CLP1

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A027.d
Date : 17-MAY-2011 03:42
Client ID: MM-01-042911-D MS
Sample Info: SU73BMS
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



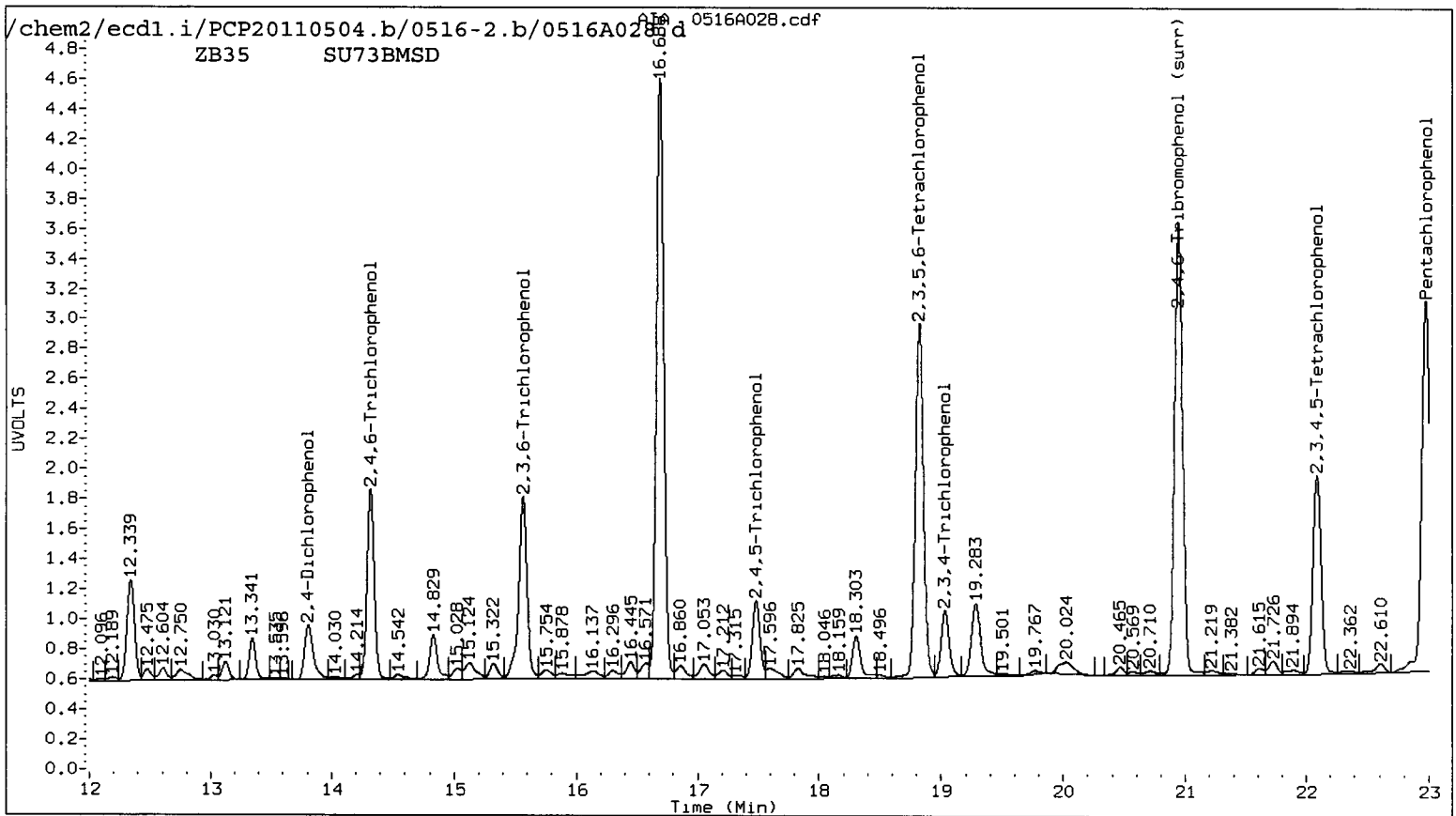
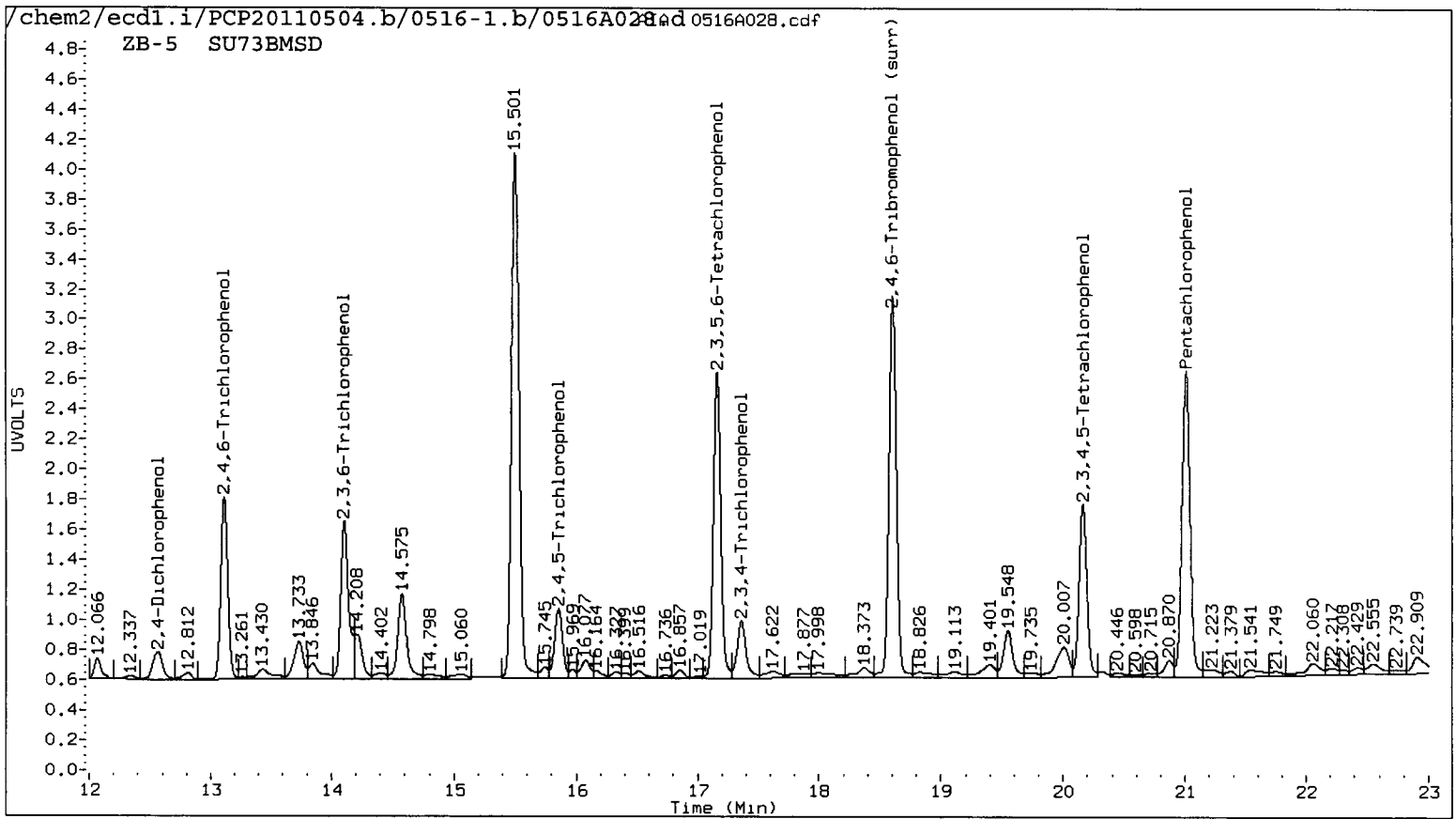
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A028.d ARI ID: SU73BMSD
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A028.d Client ID: MW-01-042911-D MSD
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 04:18
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

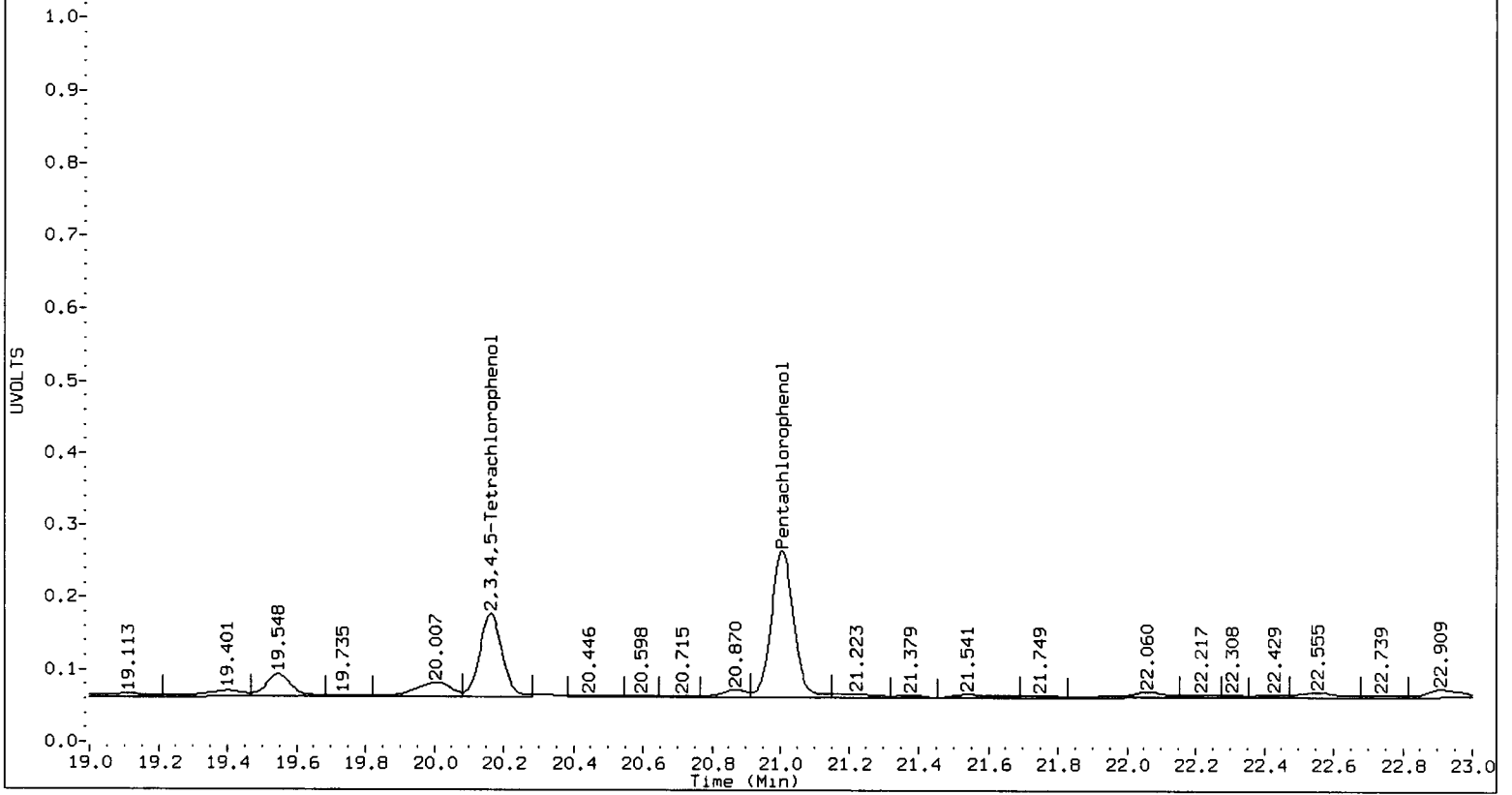
| ZB-5 Col | | ZB35 Col | | ZB-5 | ZB35 | RPD | Compound |
|----------|----------------|----------|----------------|---------|----------|-------|-----------------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 21.006 | 0.009/466027 | 22.975 | 0.008/604150 | 23.1289 | 21.4535 | 7.5 | Pentachlorophenol |
| 13.110 | 0.009 248167 | 14.318 | 0.007 259415 | 20.3870 | 17.8984 | 13.0 | 2,4,6-Trichlorophenol |
| 14.104 | 0.007 243817 | 15.564 | 0.007 292617 | 21.2892 | 20.3582 | 4.5 | 2,3,6-Trichlorophenol |
| 15.854 | 0.009 103482 | 17.482 | 0.008 116825 | 14.7766 | 14.4306 | 2.4 | 2,4,5-Trichlorophenol |
| 17.360 | 0.008 96466 | 19.031 | 0.008 102763 | 11.5455 | 10.4299 | 10.2 | 2,3,4-Trichlorophenol |
| 17.160 | 0.008 433587 | 18.821 | 0.007 536481 | 25.6459 | 24.4545 | 4.8 | 2,3,5,6-Tetrachlorophenol |
| 20.163 | 0.008 261777 | 22.088 | 0.008 303350 | 20.1650 | 19.4063 | 3.8 | 2,3,4,5-Tetrachlorophenol |
| 12.562 | 0.007/51392 | 13.808 | -0.012/91183 | 68.0471 | 116.7942 | 52.7* | 2,4-Dichlorophenol |
| 18.604 | 0.008 553257 | 20.944 | 0.008/676721 | 35.1 | 32.2 | 8.8 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

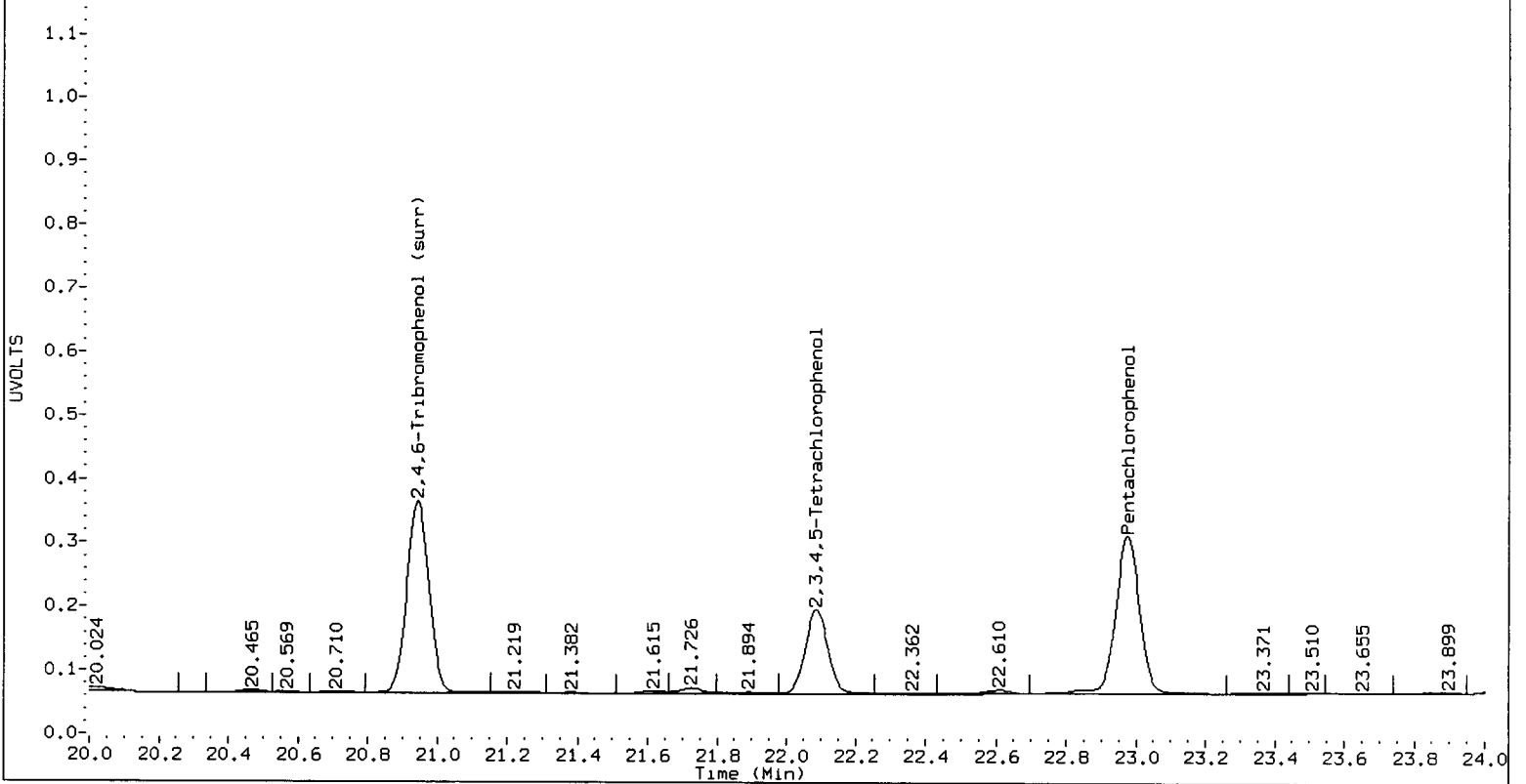
| COMPOUND | Col1 | Col2 |
|---------------------------|-------|------|
| Pentachlorophenol | 92.5 | 85.8 |
| 2,4,6-Trichlorophenol | 81.5 | 71.6 |
| 2,3,6-Trichlorophenol | 85.2 | 81.4 |
| 2,4,5-Trichlorophenol | 59.1 | 57.7 |
| 2,3,4-Trichlorophenol | 46.2 | 41.7 |
| 2,3,5,6-Tetrachlorophenol | 102.6 | 97.8 |
| 2,3,4,5-Tetrachlorophenol | 80.7 | 77.6 |
| 2,4-Dichlorophenol | 27.2 | 46.7 |
| 2,4,6-TBP (surr) | 70.3 | 64.4 |



ZB5 SU73BMSD



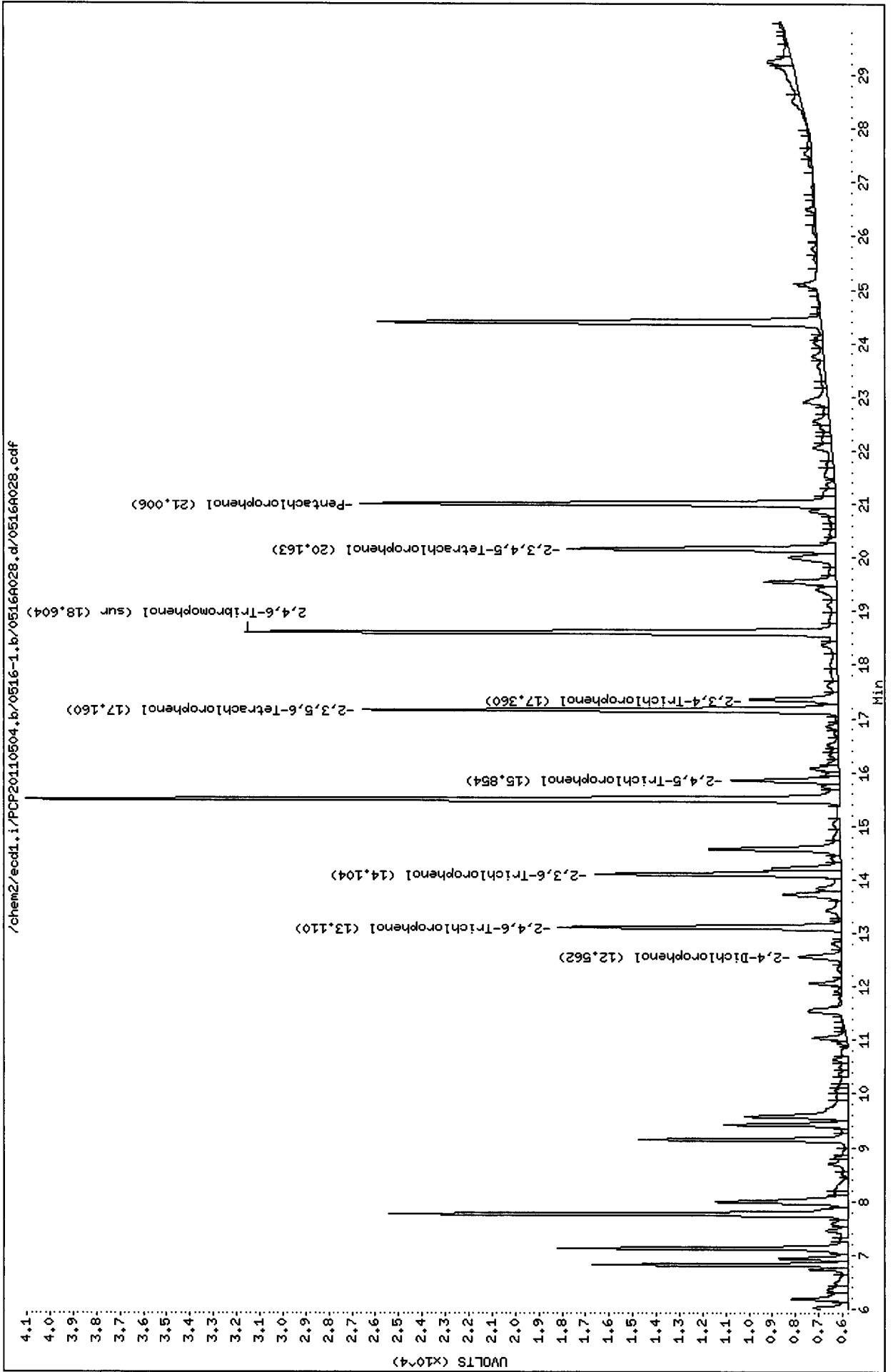
ZB35 SU73BMSD



Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A028.d
Date : 17-MAY-2011 04:18
Client ID: MM-01-042911-D MSD
Sample Info: SU73BHSD
Purge Volume: 500.0
Column phase: STX CLP1

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A028.d

Date : 17-MAY-2011 04:18

Client ID: MW-01-042911-D MSD

Sample Info: SU73BHSD

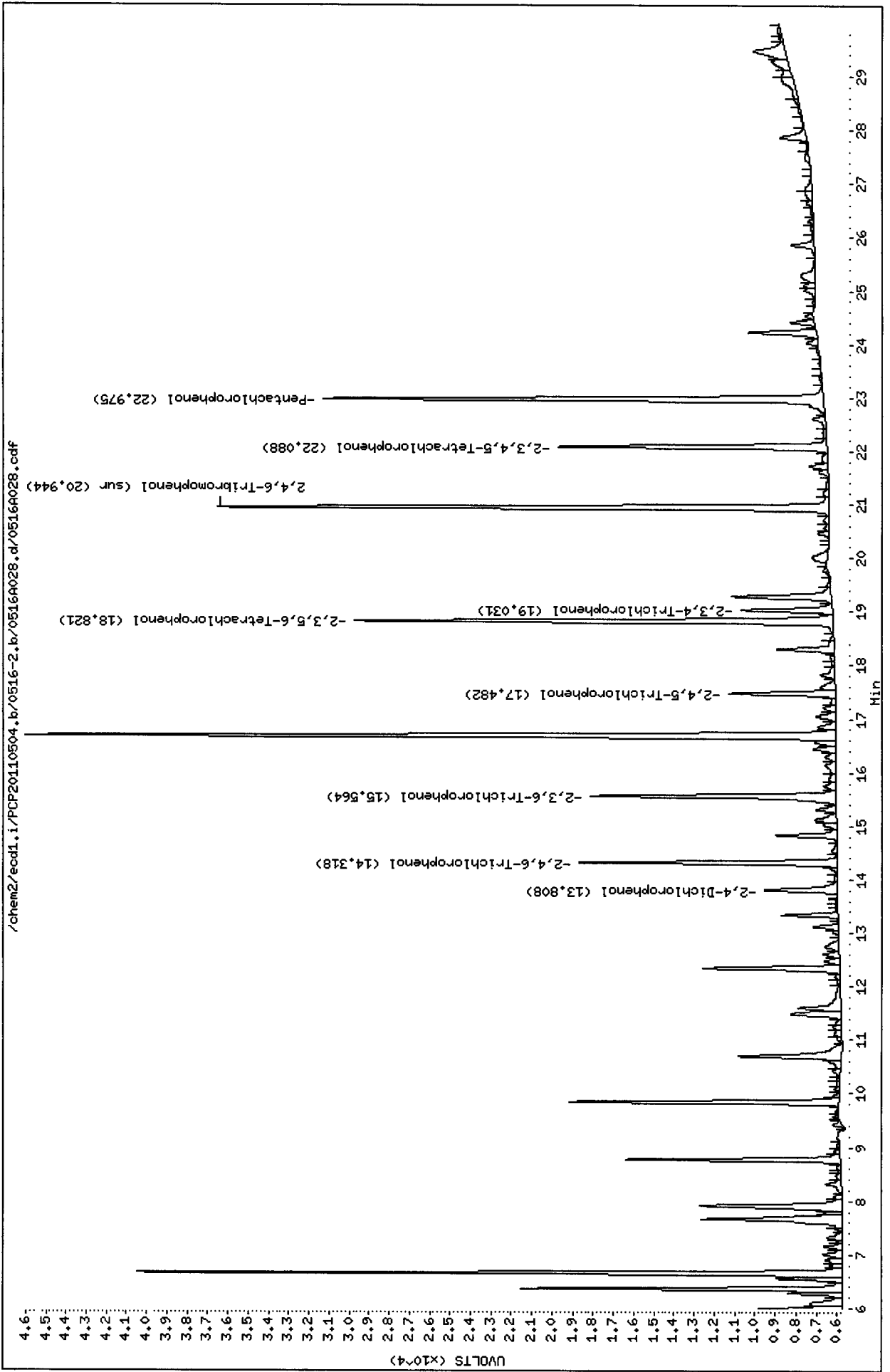
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



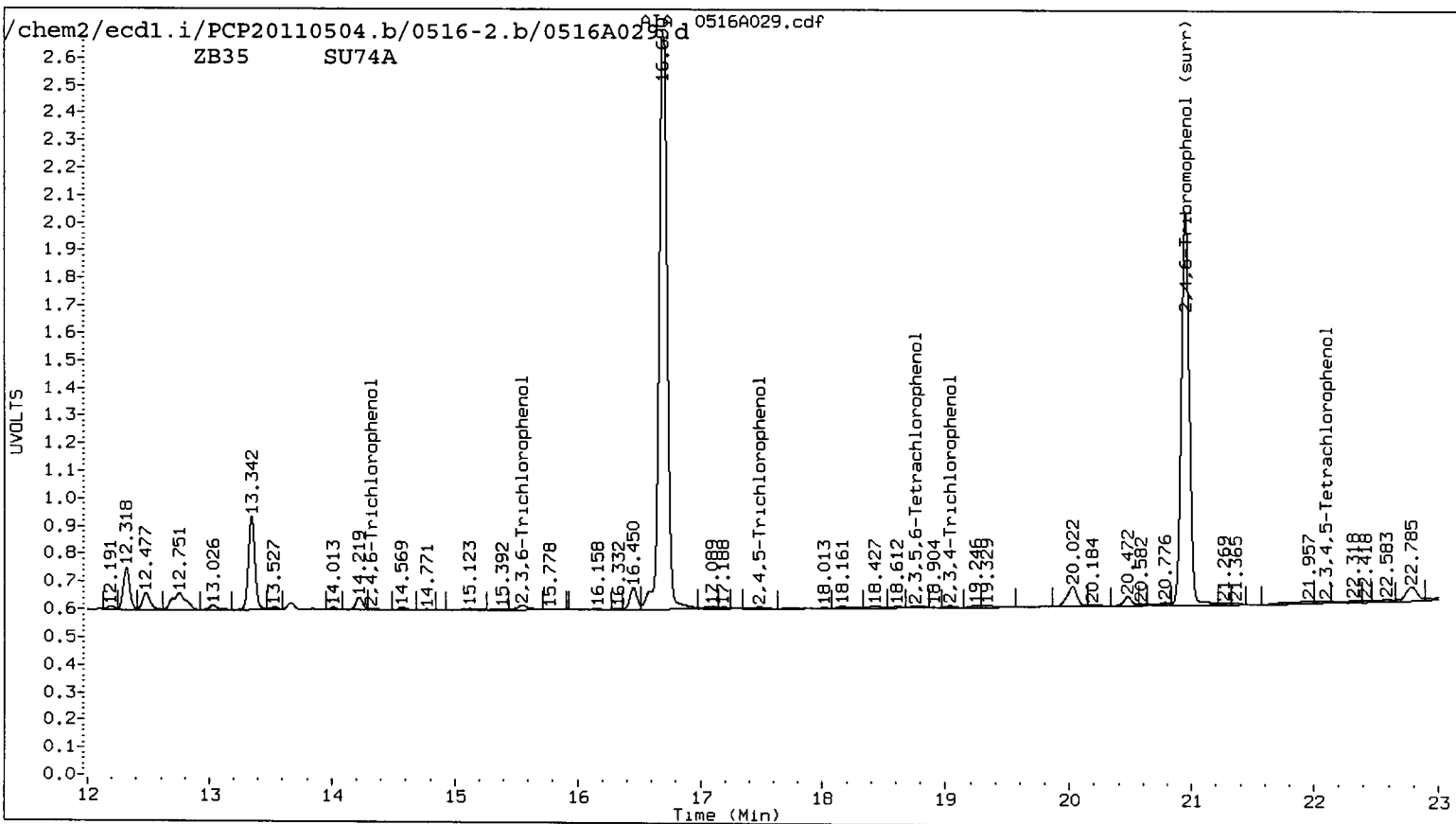
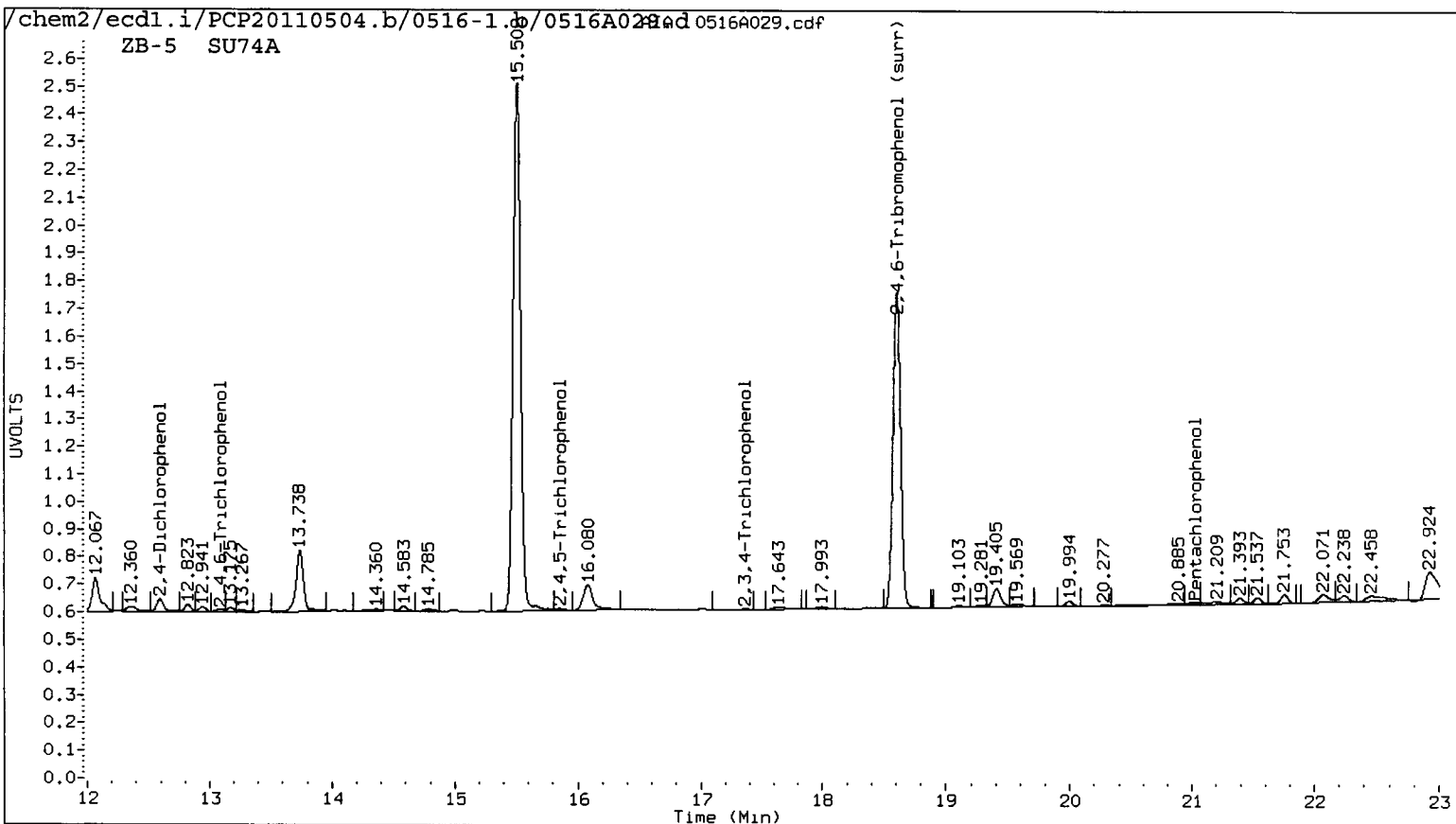
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

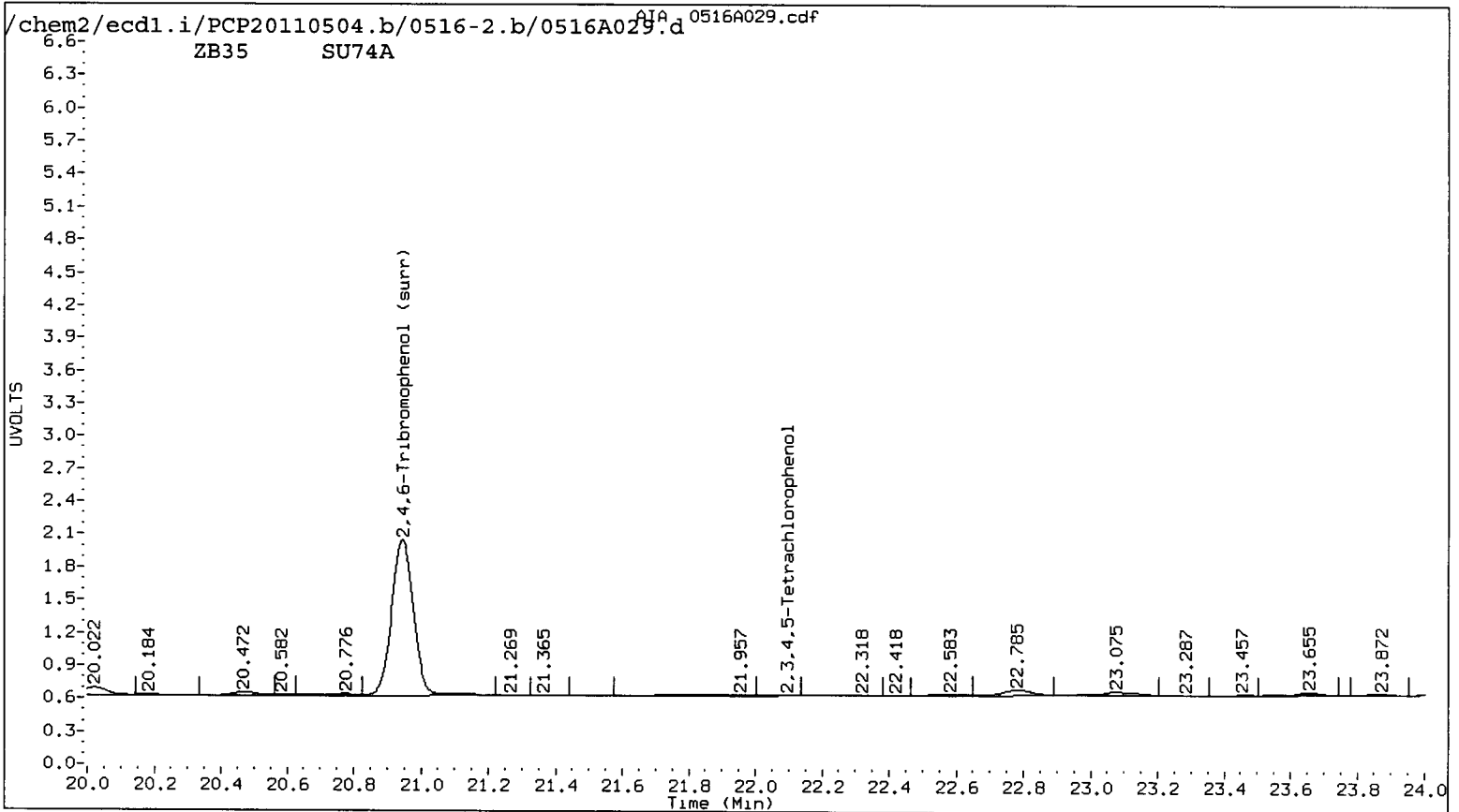
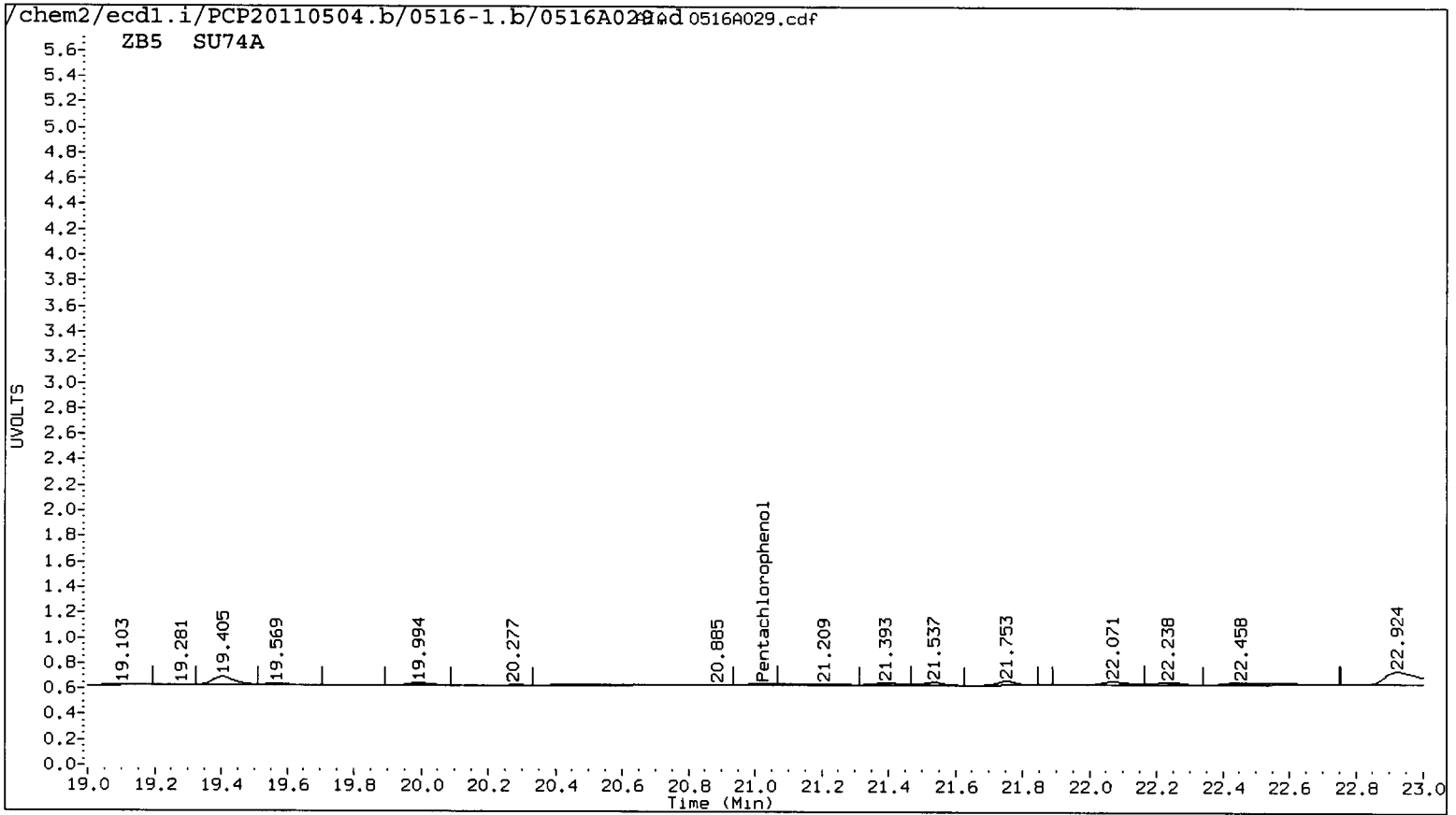
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A029.d ARI ID: SU74A
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A029.d Client ID: B312-042911
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 04:54
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|---------|--------|-------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 21.026 | 0.028 | 2735 | ---- | | | 0.1357 | 0.0000 | --- | Pentachlorophenol |
| 13.087 | -0.014 | 1833 | 14.319 | 0.008 | 2285 | 0.1506 | 0.1577 | 4.6 | 2,4,6-Trichlorophenol |
| ---- | | | 15.548 | -0.009 | 5469 | 0.0000 | 0.3805 | --- | 2,3,6-Trichlorophenol |
| 15.850 | 0.005 | 1645 | 17.480 | 0.006 | 3364 | 0.2134 | 0.4156 | 64.3* | 2,4,5-Trichlorophenol |
| 17.362 | 0.011 | 1289 | 19.032 | 0.009 | 1726 | 0.1543 | 0.1645 | 6.4 | 2,3,4-Trichlorophenol |
| ---- | | | 18.759 | -0.055 | 2310 | 0.0000 | 0.1053 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | | | 22.098 | 0.018 | 2765 | 0.0000 | 0.1615 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.592 | 0.037 | 9599 | ---- | | | 11.9998 | 0.0000 | --- | 2,4-Dichlorophenol |
| 18.605 | 0.010 | 241984 | 20.945 | 0.009 | 318417 | 15.4 | 15.1 | 1.5 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 61.5 | 60.6 |





Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A029.d

Date : 17-MAY-2011 04:54

Client ID: B312-042911

Sample Info: SU74A

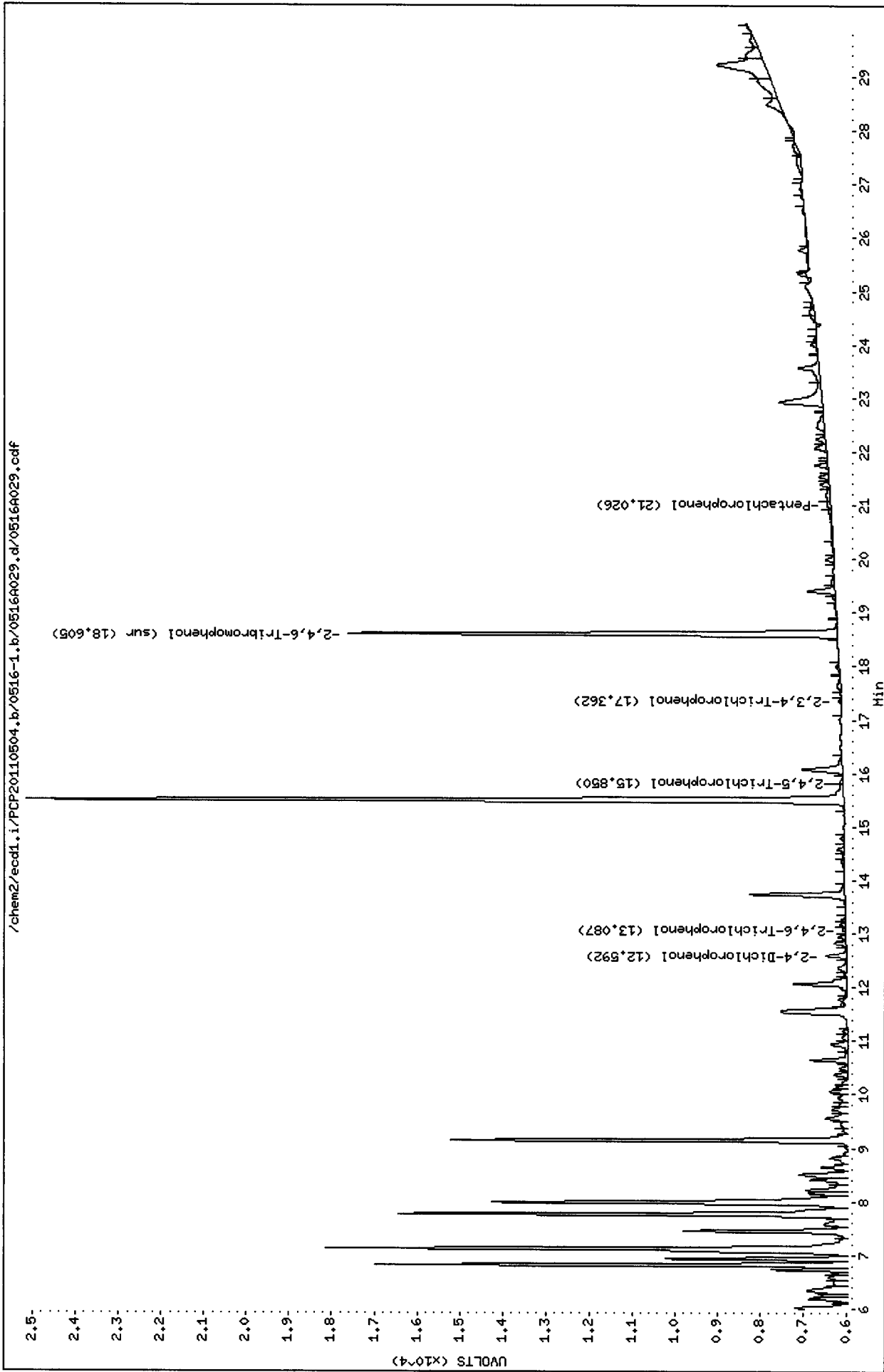
Purge Volume: 500.0

Column phase: STX CLP1

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A029.d

Date : 17-MAY-2011 04:54

Client ID: B312-042911

Sample Info: SU74A

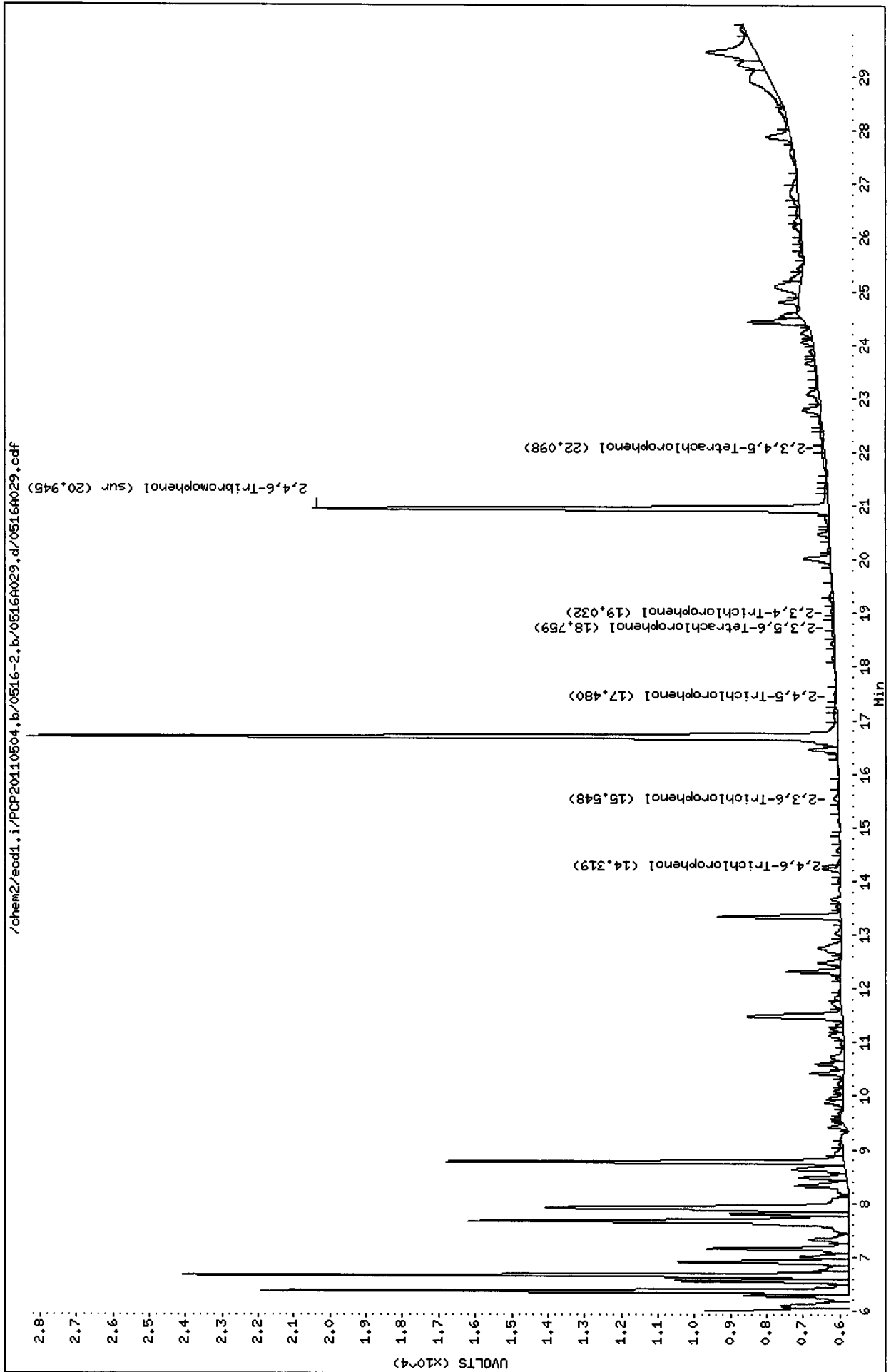
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



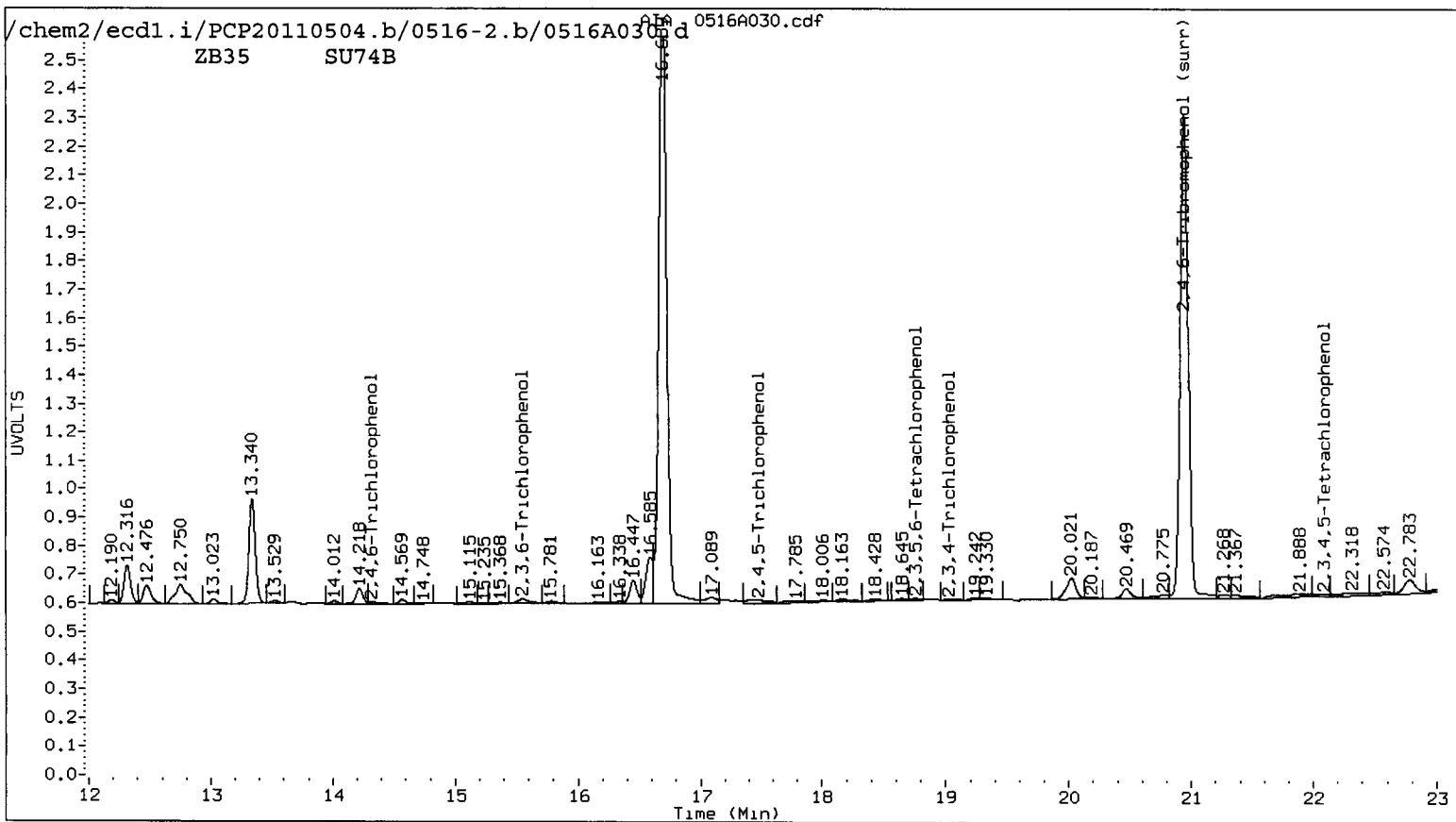
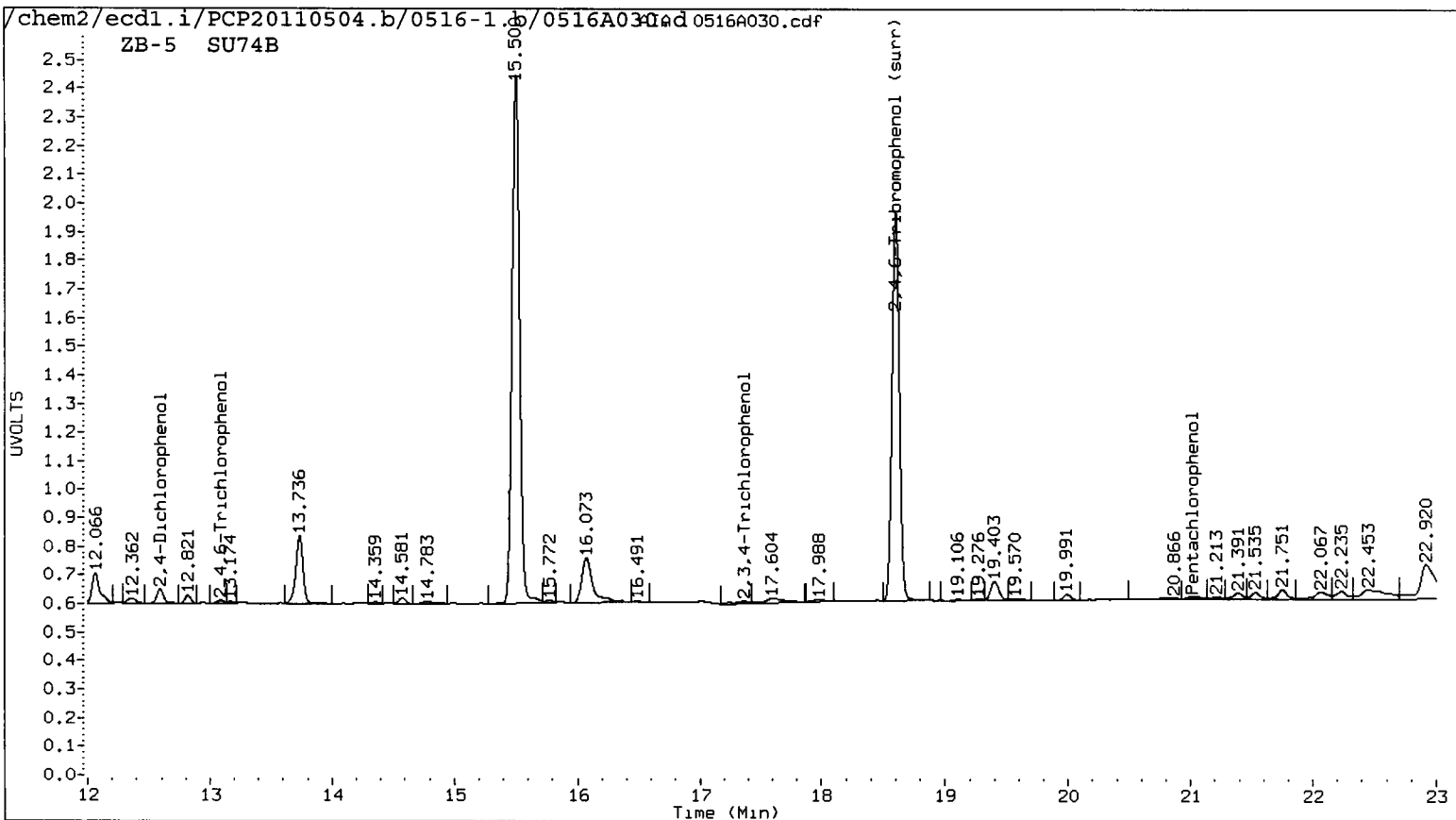
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

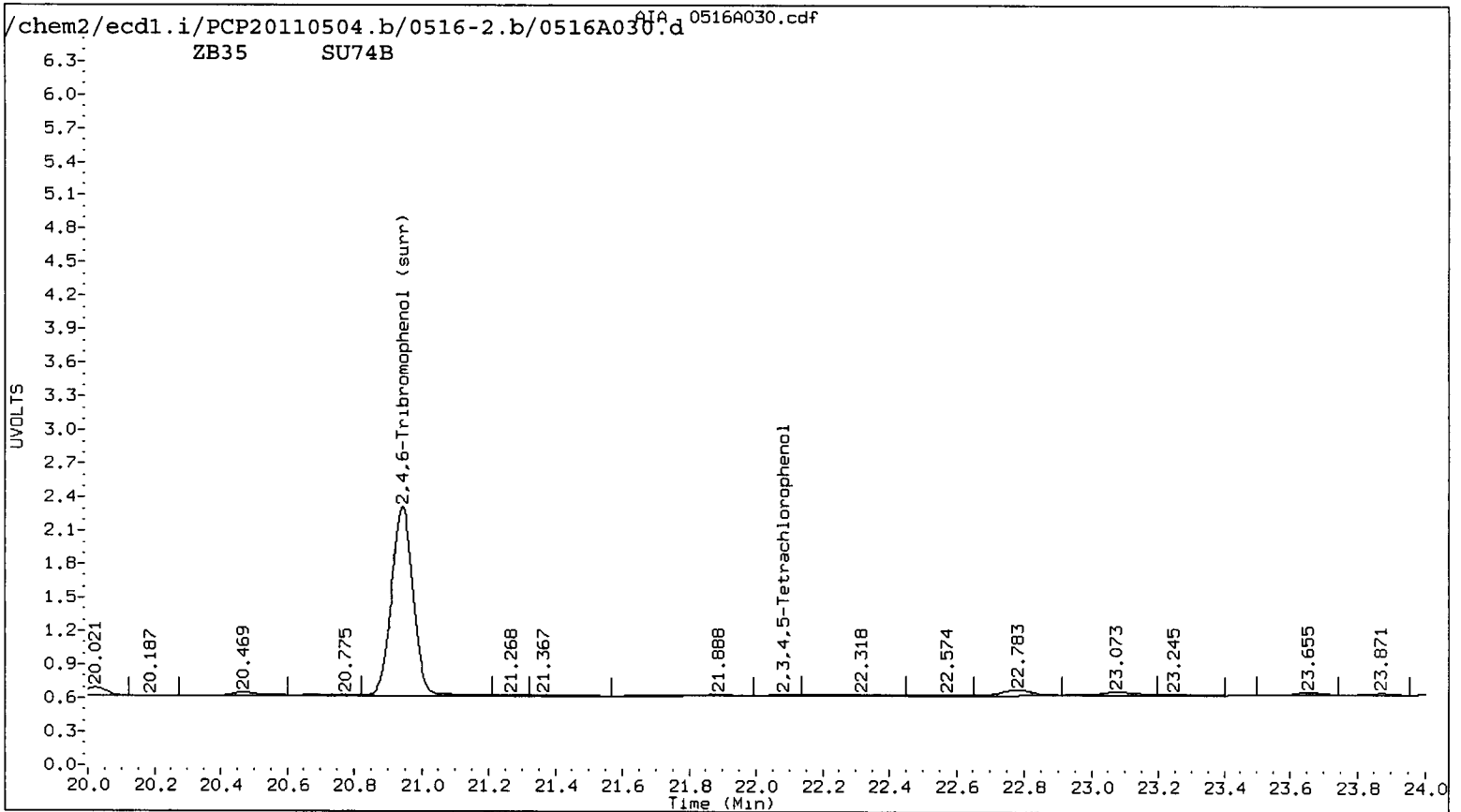
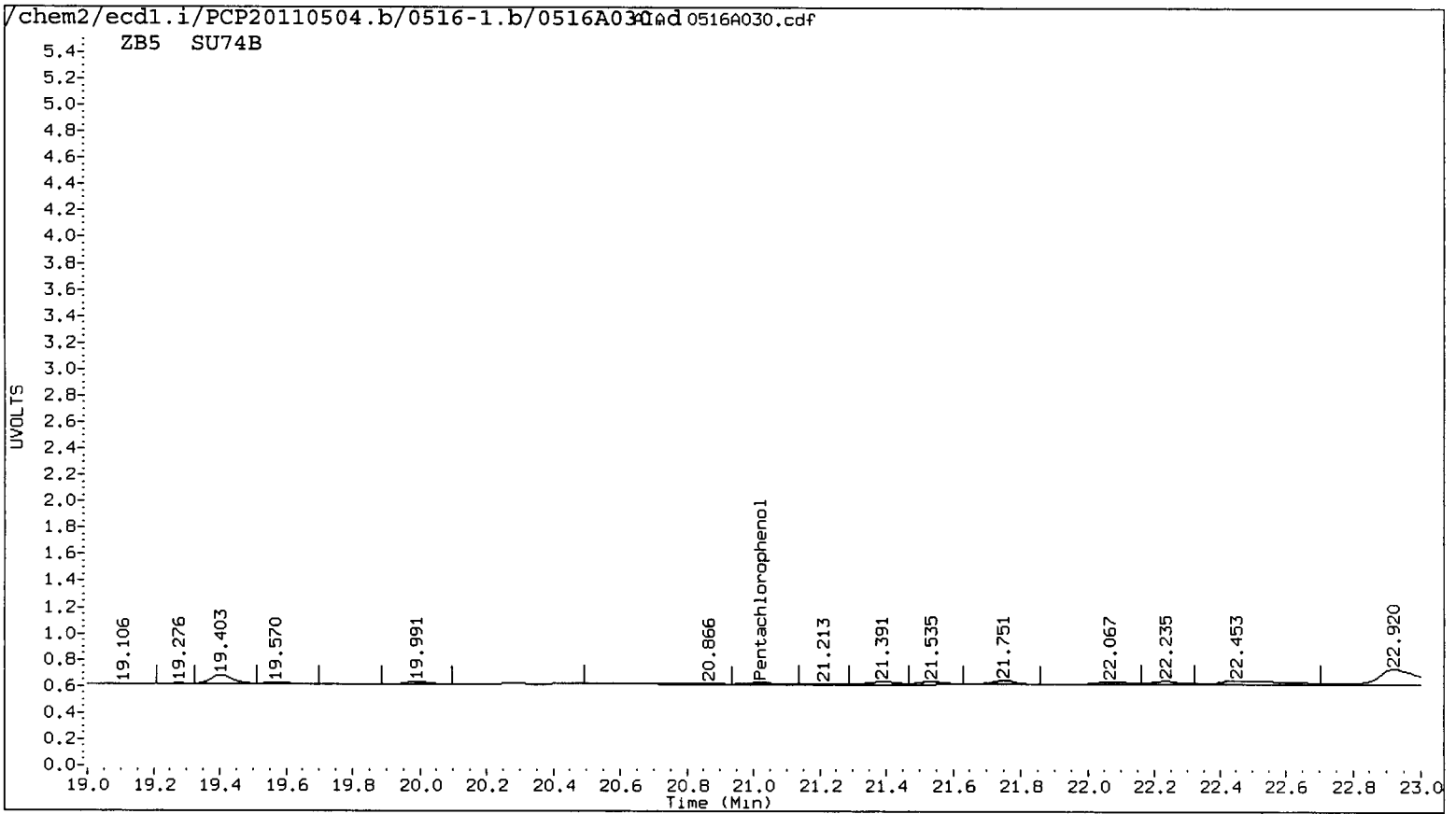
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A030.d ARI ID: SU74B
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A030.d Client ID: B310-042911
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 05:31
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|---------|--------|--------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 21.021 | 0.024 | 4557 | ---- | | | 0.2262 | 0.0000 | --- | Pentachlorophenol |
| 13.090 | -0.011 | 2392 | 14.318 | 0.007 | 2194 | 0.1966 | 0.1514 | 26.0 | 2,4,6-Trichlorophenol |
| ---- | | | 15.550 | -0.007 | 5730 | 0.0000 | 0.3987 | --- | 2,3,6-Trichlorophenol |
| ---- | | | 17.477 | 0.003 | 7844 | 0.0000 | 0.9690 | --- | 2,4,5-Trichlorophenol |
| 17.365 | 0.014 | 3250 | 19.030 | 0.007 | 996 | 0.3890 | 0.0949 | 121.6* | 2,3,4-Trichlorophenol |
| ---- | | | 18.757 | -0.057 | 1683 | 0.0000 | 0.0768 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | | | 22.083 | 0.003 | 4123 | 0.0000 | 0.2410 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.590 | 0.035 | 11232 | ---- | | | 14.0732 | 0.0000 | --- | 2,4-Dichlorophenol |
| 18.604 | 0.008 | 286764 | 20.944 | 0.008 | 382494 | 18.2 | 18.2 | 0.1 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

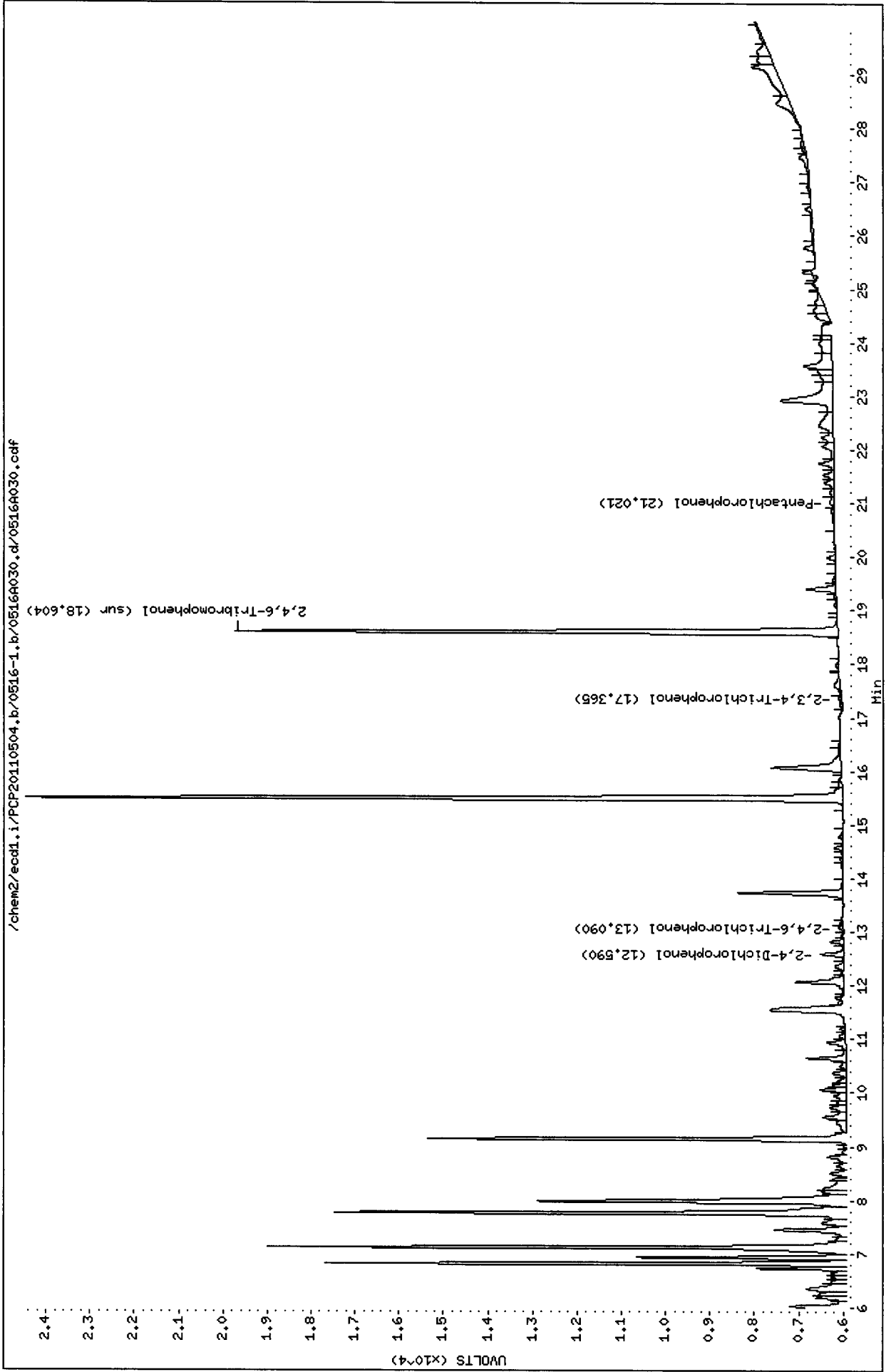
| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 72.9 | 72.8 |





Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A030.d
Date : 17-MAY-2011 05:31
Client ID: B310-042911
Sample Info: SU74B
Purge Volume: 500.0
Column Phase: STX CLP1

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A030.d

Date : 17-MAY-2011 05:31

Client ID: B310-042911

Sample Info: SU74B

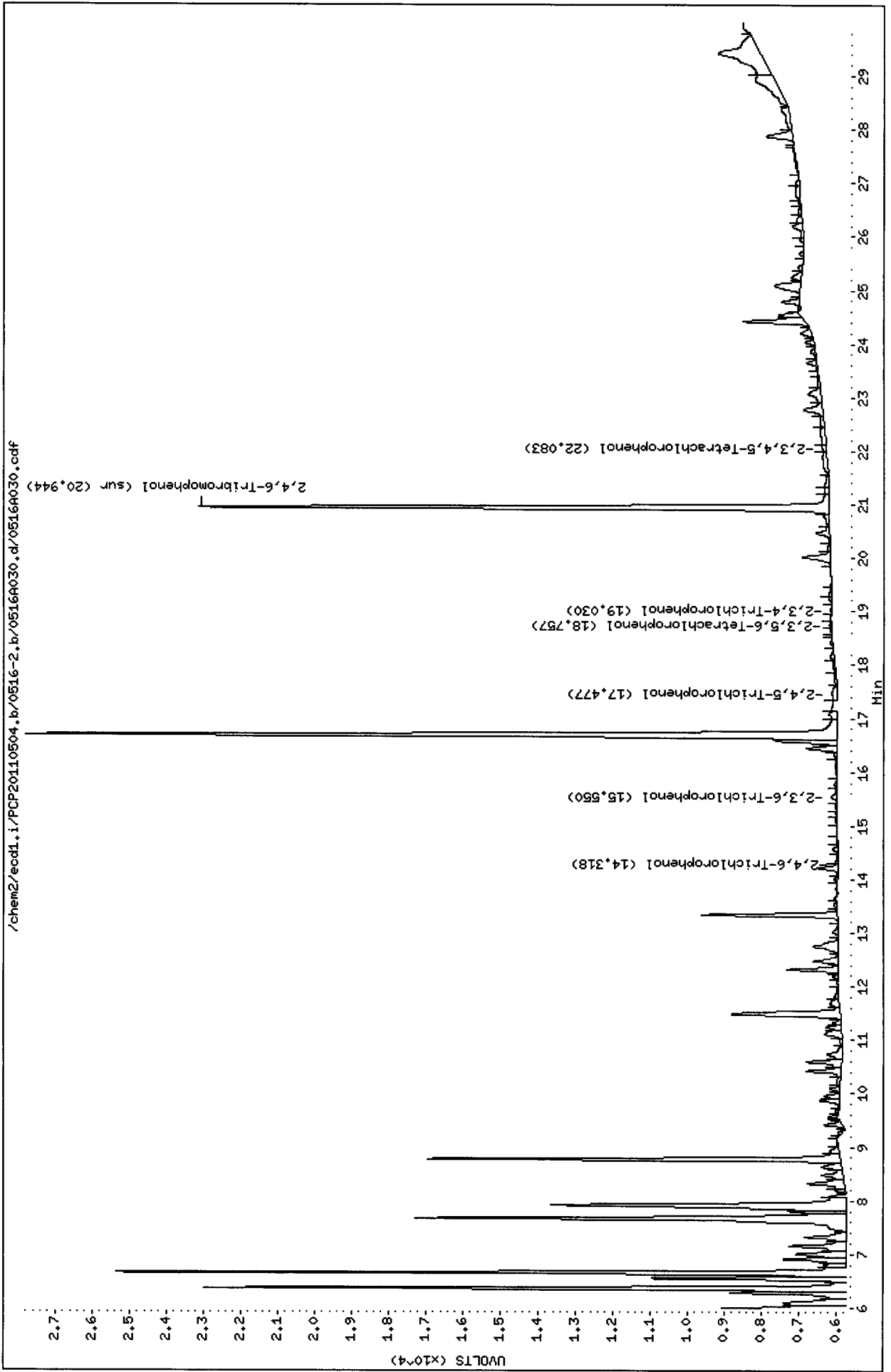
Purge Volume: 500.0

Column phase: STX CLP2

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



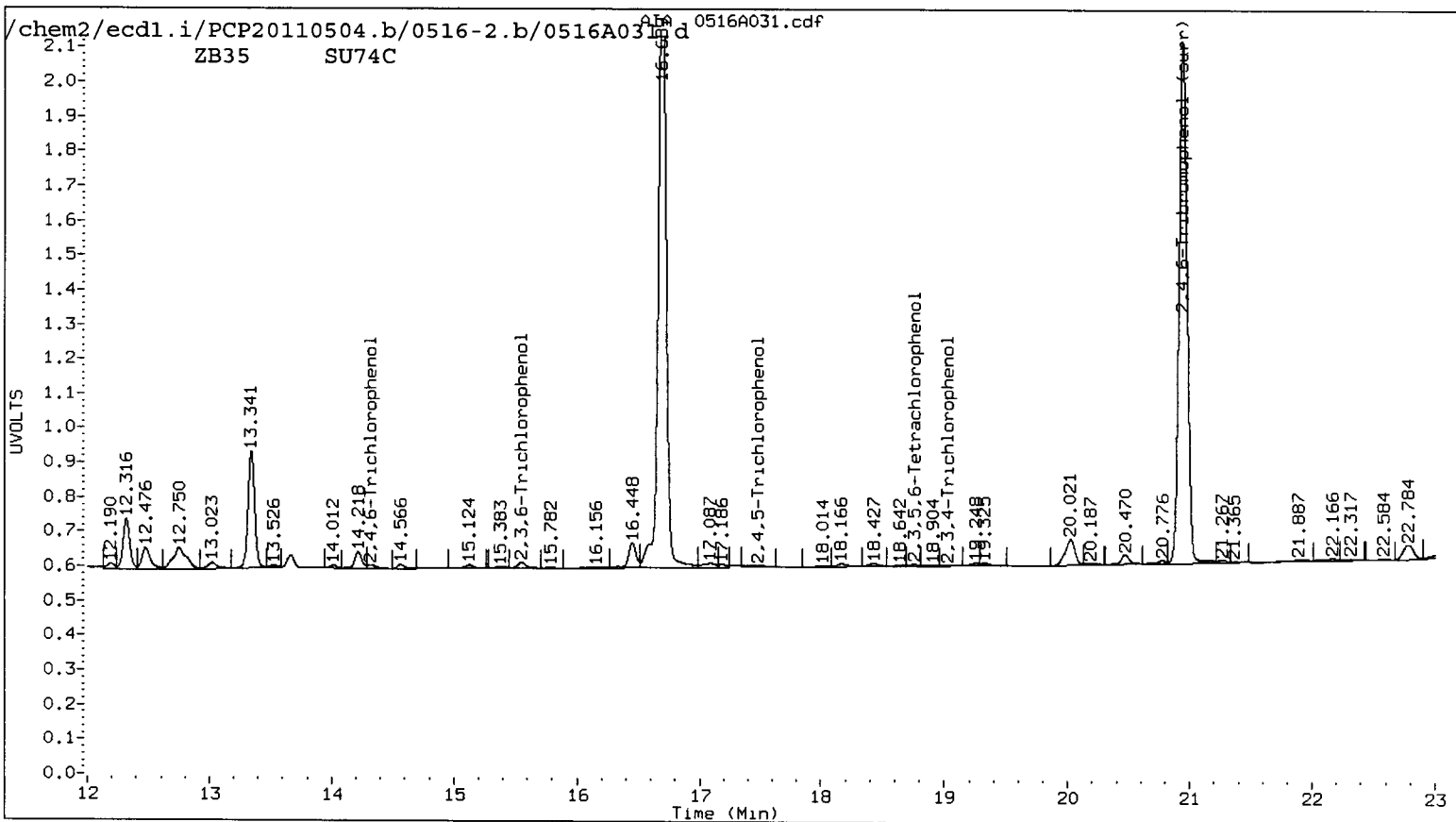
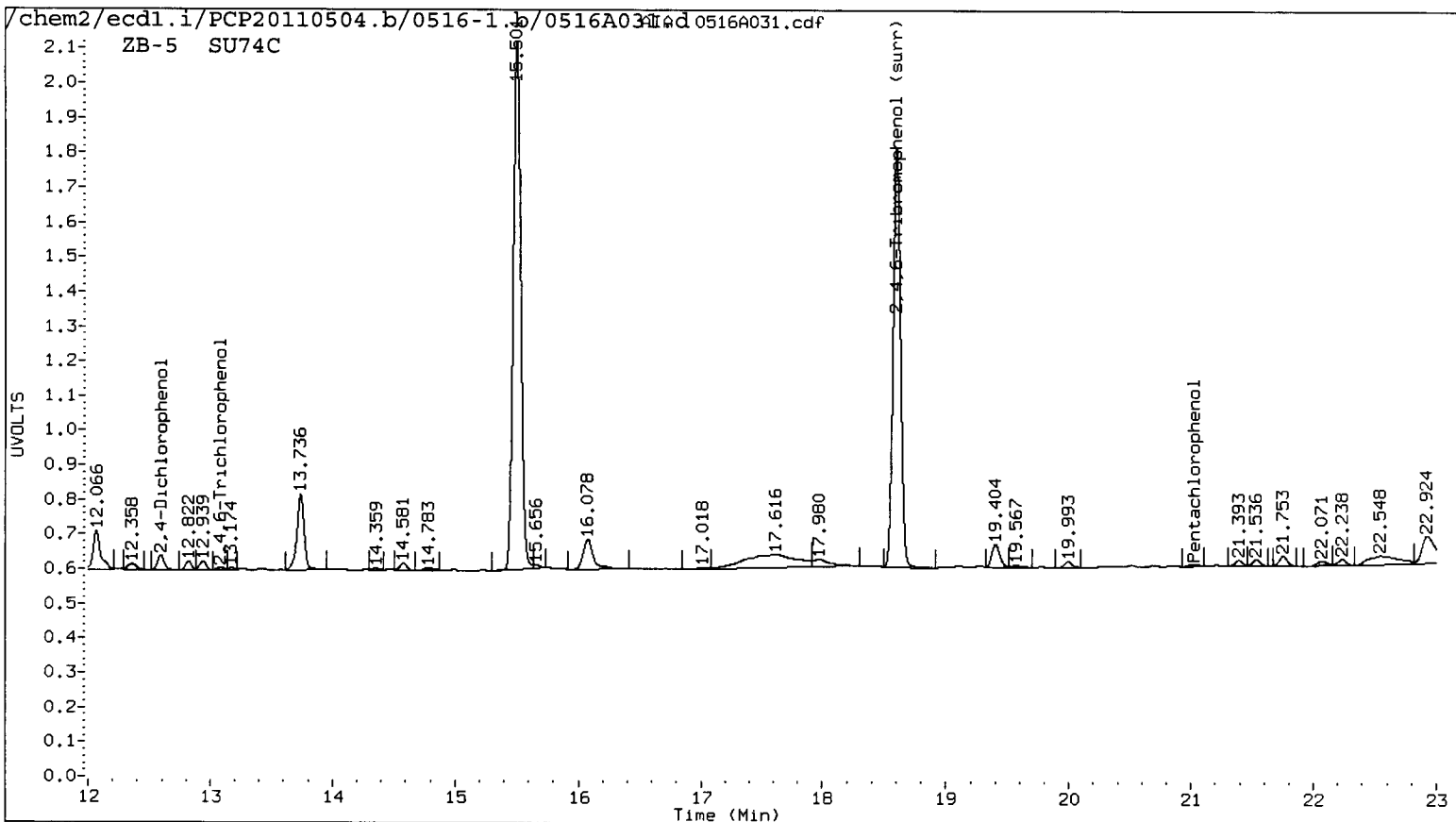
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

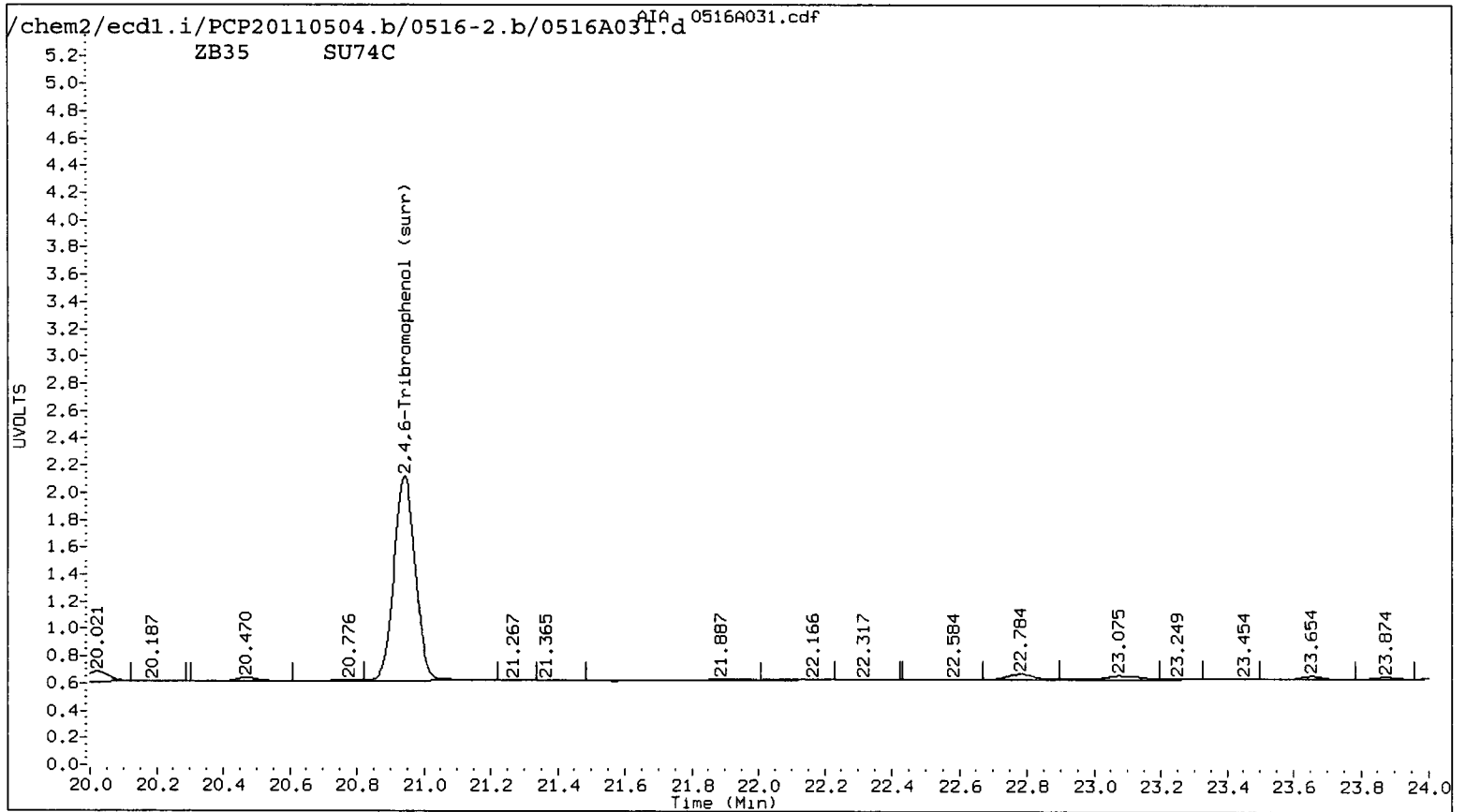
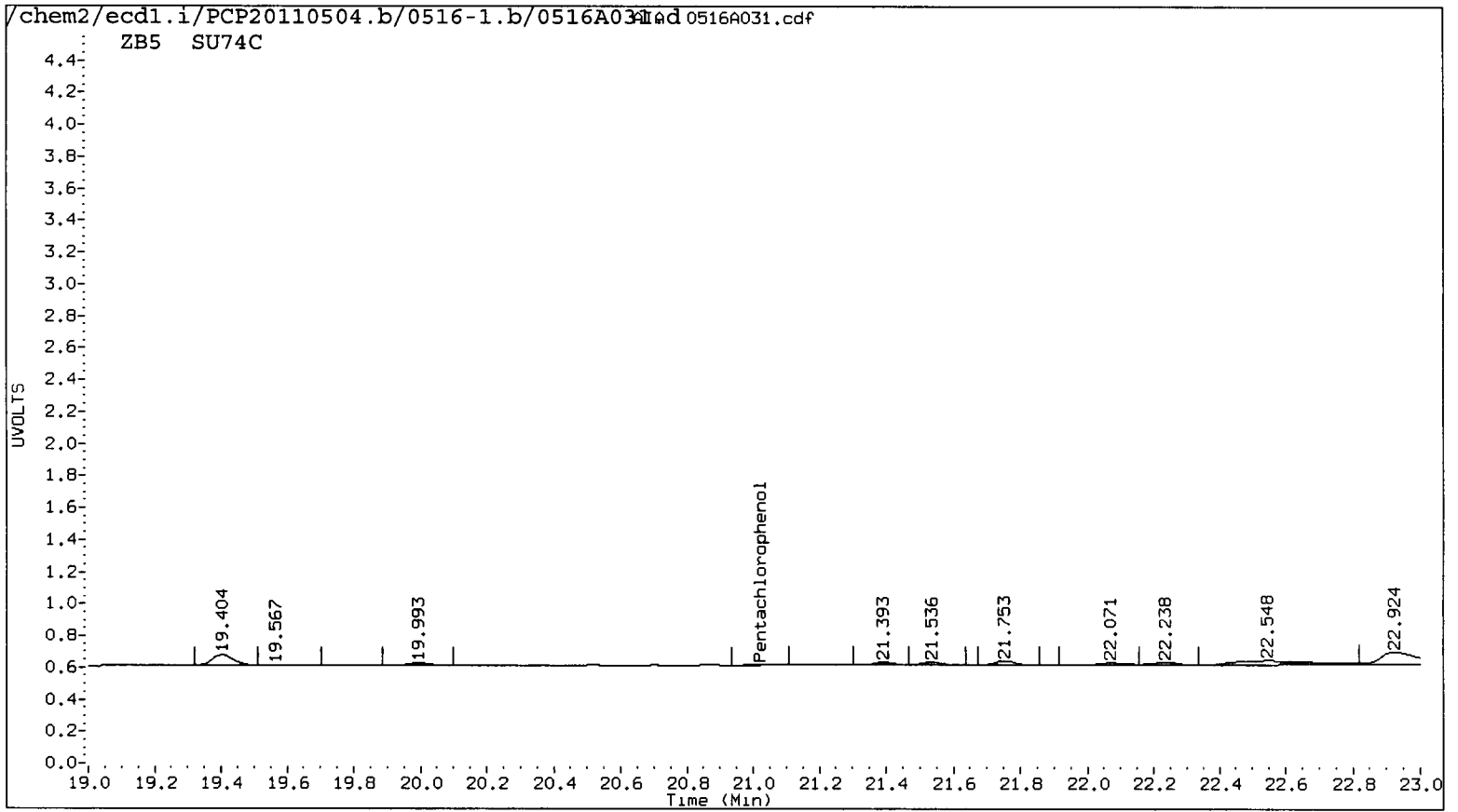
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A031.d ARI ID: SU74C
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A031.d Client ID: B311-042911
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 06:07
 Compound Sublist: all Report Date: 05/18/2011 10:16
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | | ZB35 Col | | | ZB-5 | ZB35 | RPD | Compound |
|----------|--------|----------|----------|--------|----------|---------|--------|------|-----------------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 21.024 | 0.027 | 1370 | ---- | | | 0.0680 | 0.0000 | --- | Pentachlorophenol |
| 13.083 | -0.018 | 1559 | 14.322 | 0.011 | 2707 | 0.1281 | 0.1868 | 37.2 | 2,4,6-Trichlorophenol |
| ---- | | | 15.548 | -0.009 | 4405 | 0.0000 | 0.3065 | --- | 2,3,6-Trichlorophenol |
| ---- | | | 17.477 | 0.003 | 3111 | 0.0000 | 0.3843 | --- | 2,4,5-Trichlorophenol |
| ---- | | | 19.024 | 0.001 | 728 | 0.0000 | 0.0693 | --- | 2,3,4-Trichlorophenol |
| ---- | | | 18.758 | -0.056 | 1477 | 0.0000 | 0.0674 | --- | 2,3,5,6-Tetrachlorophenol |
| ---- | | | ---- | | | 0.0000 | 0.0000 | --- | 2,3,4,5-Tetrachlorophenol |
| 12.591 | 0.036 | 8950 | ---- | | | 11.1784 | 0.0000 | --- | 2,4-Dichlorophenol |
| 18.604 | 0.009 | 254513 | 20.943 | 0.007 | 335515 | 16.2 | 16.0 | 1.3 | 2,4,6-Tribromophenol (surr) |

PERCENT RECOVERY

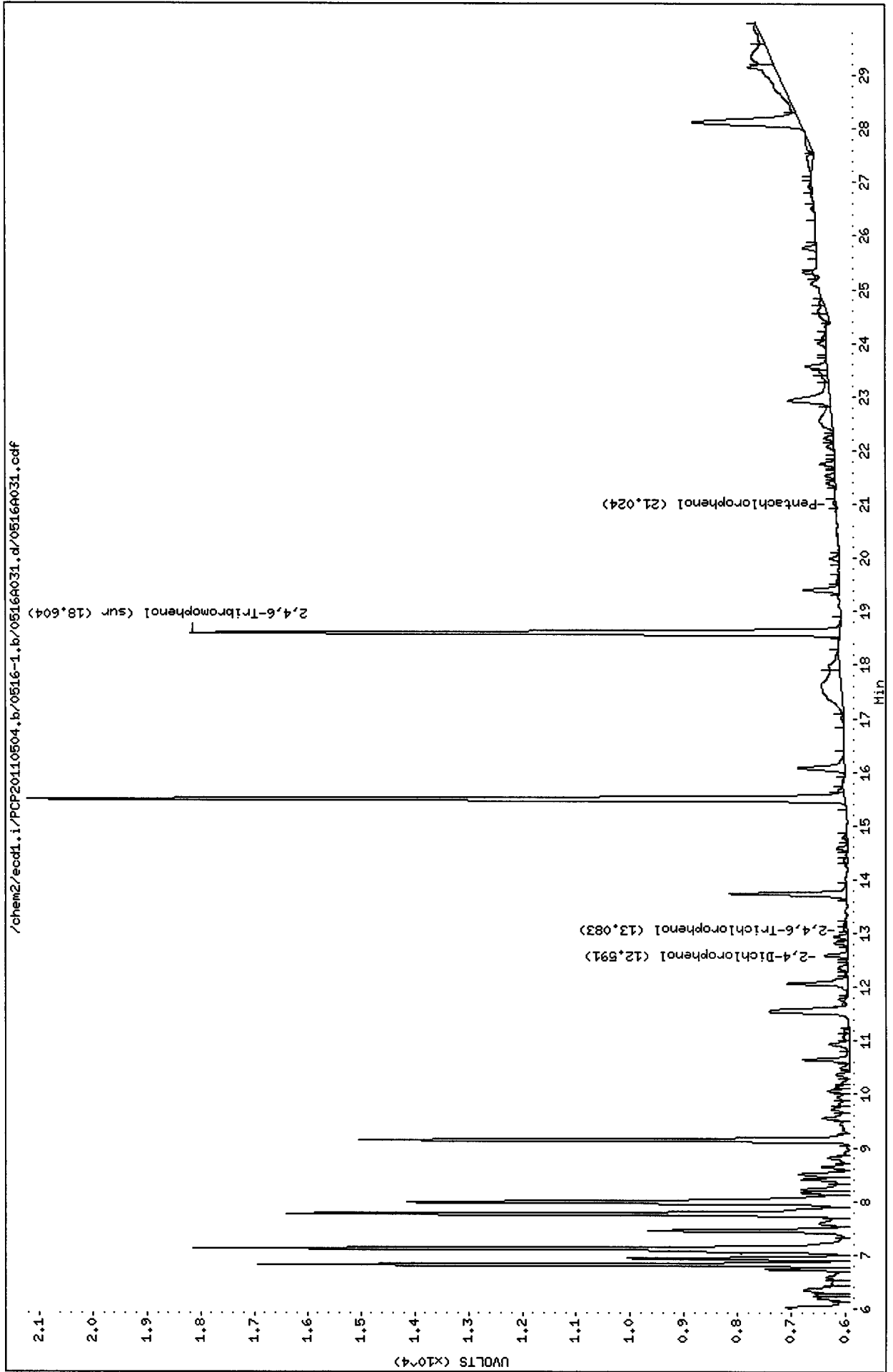
| COMPOUND | Col1 | Col2 |
|------------------|------|------|
| 2,4,6-TBP (surr) | 64.7 | 63.8 |





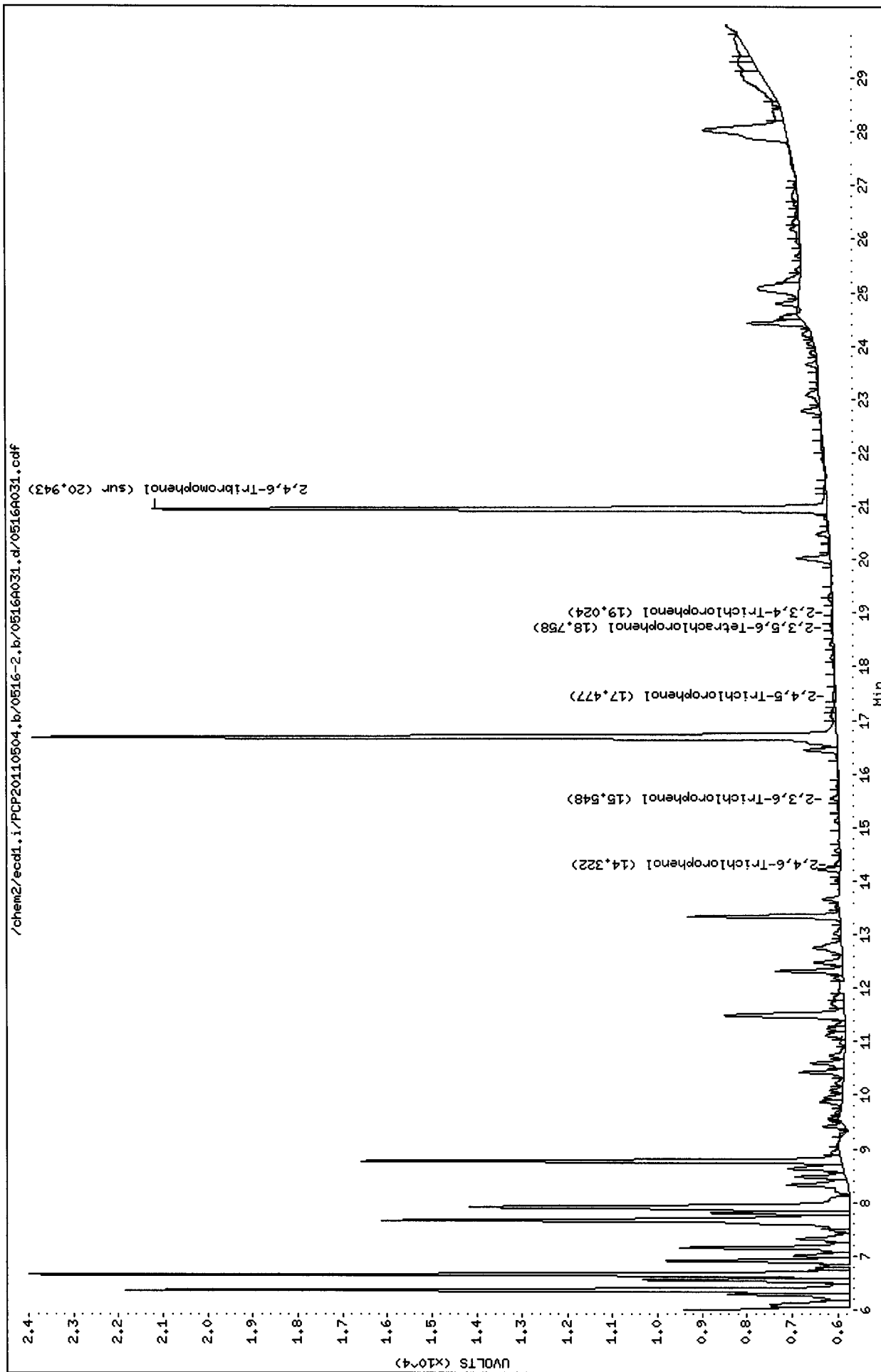
Data File: /chem2/ecd1.i/PCP20110504.b/0516-1.b/0516A031.d
Date: 17-MAY-2011 06:07
Client ID: E311-042911
Sample Info: SU74C
Purge Volume: 500.0
Column phase: STX CLP1

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110504.b/0516-2.b/0516A031.d
Date : 17-MAY-2011 06:07
Client ID: B311-042911
Sample Info: SU74C
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



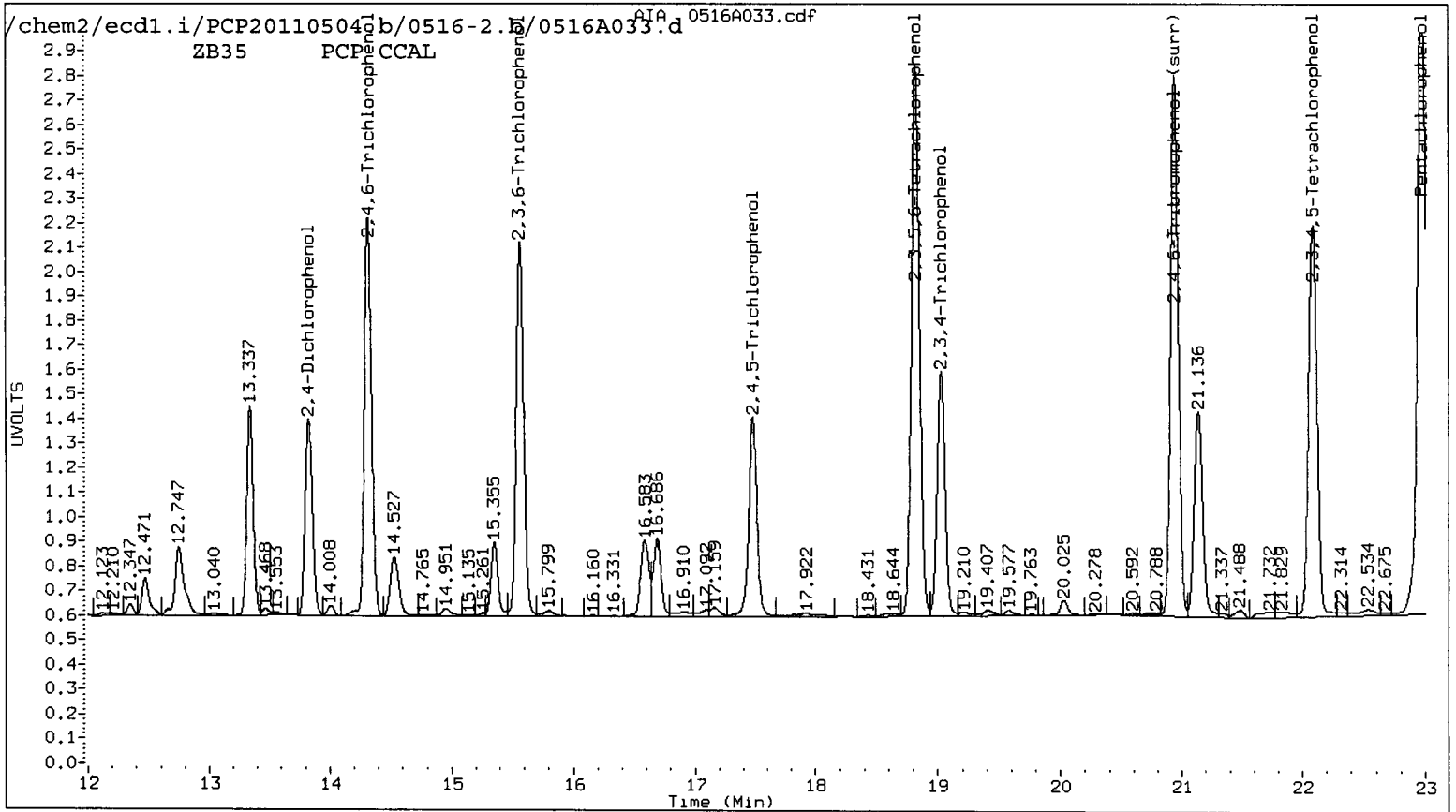
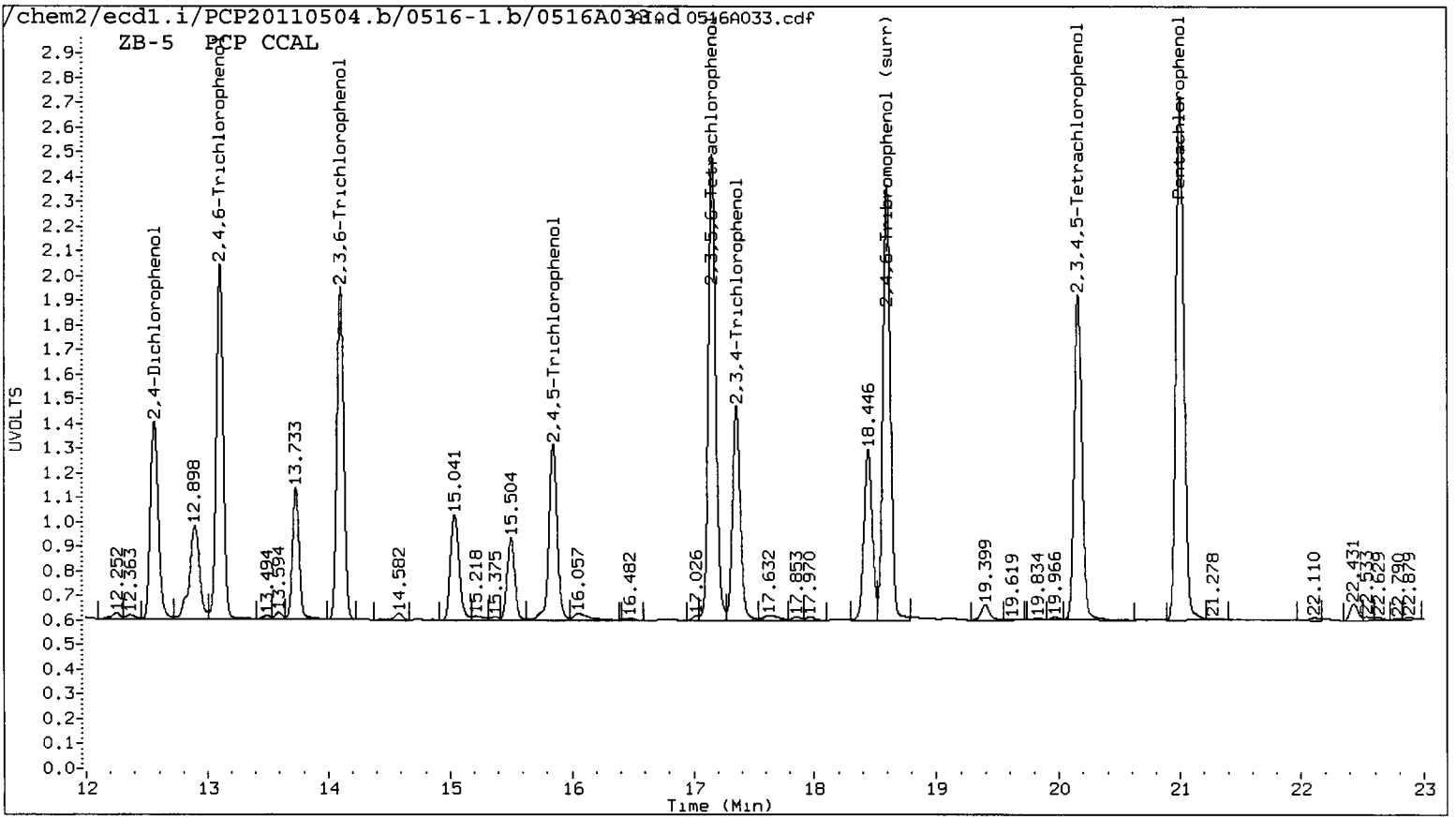
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

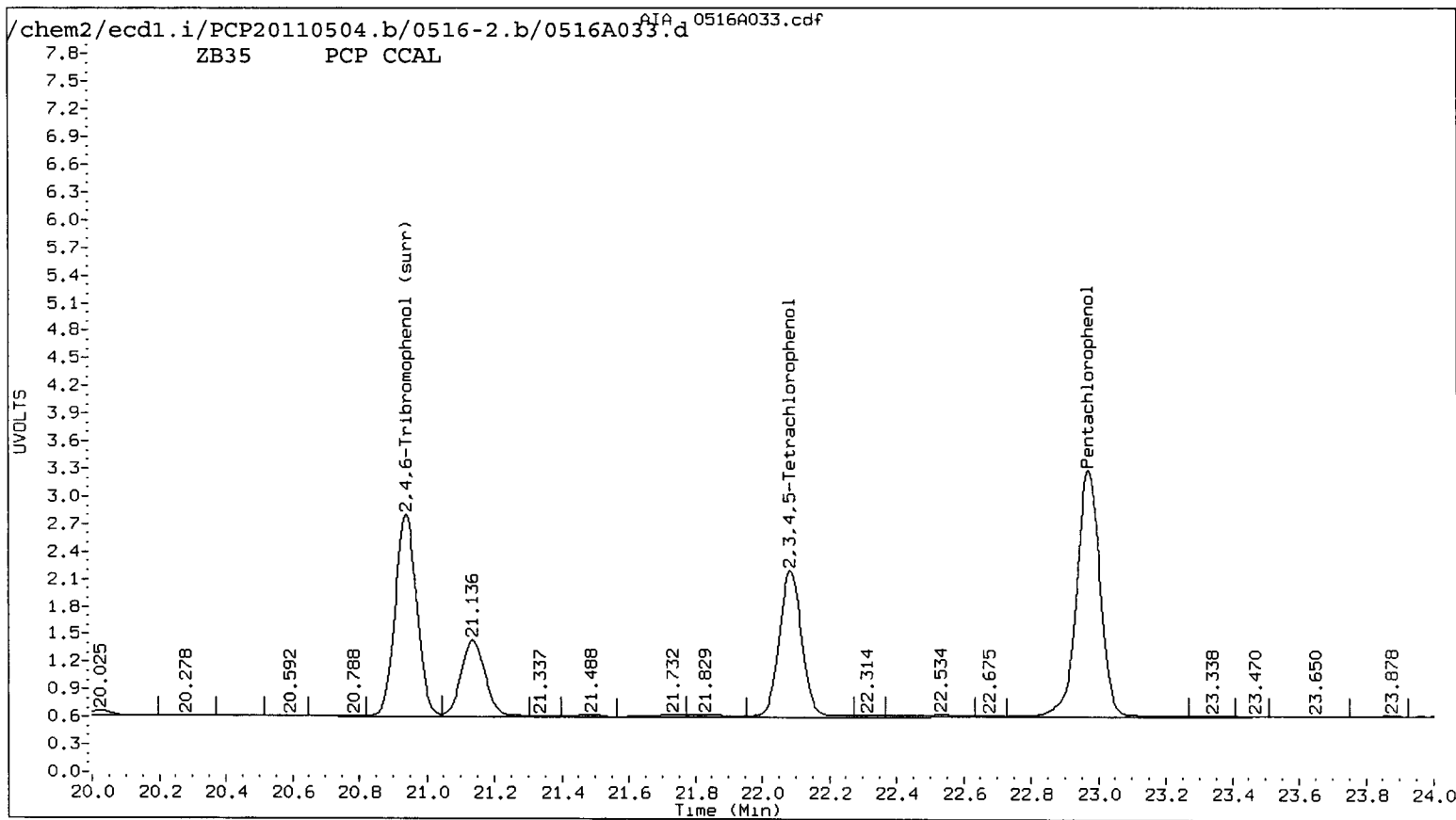
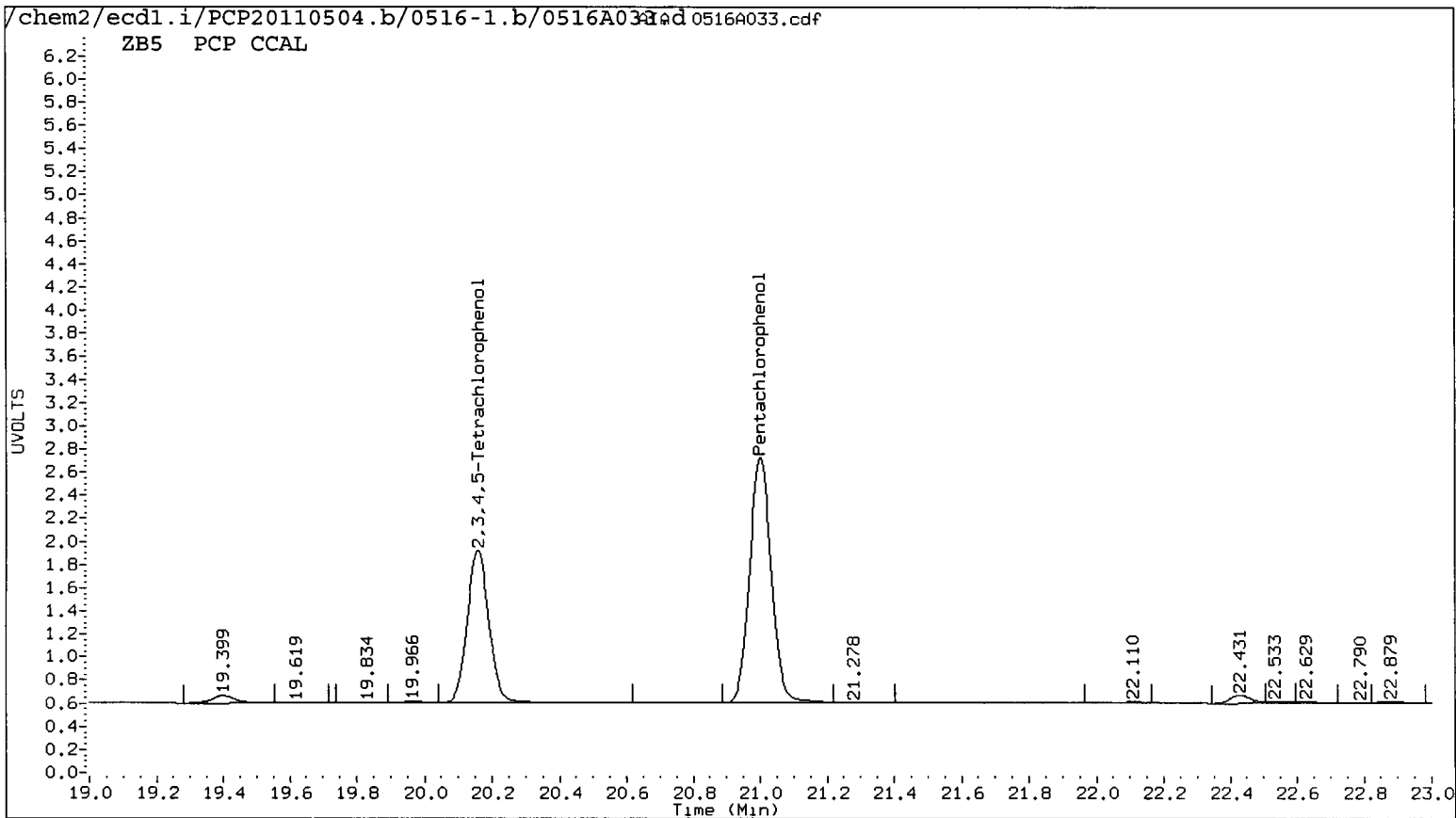
Data file 1: /chem2/ecdl.i/PCP20110504.b/0516-1.b/0516A033.d ARI ID: PCP CCAL
 Data file 2: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A033.d Client ID:
 Method: /chem2/ecdl.i/PCP20110504.b/PCP.m Injection Date: 17-MAY-2011 07:19
 Compound Sublist: all Report Date: 05/18/2011 09:24
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

| ZB-5 Col | | ZB35 Col | | ZB-5 | ZB35 | RPD | Compound |
|----------|----------------|----------|----------------|----------|----------|------|-----------------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | |
| 21.002 | 0.004 480494 | 22.971 | 0.004 654456 | 23.8469 | 23.2399 | 2.6 | Pentachlorophenol |
| 13.104 | 0.003 292366 | 14.315 | 0.004 335287 | 24.0180 | 23.1332 | 3.8 | 2,4,6-Trichlorophenol |
| 14.100 | 0.003 269534 | 15.561 | 0.004 325675 | 23.5347 | 22.6582 | 3.8 | 2,3,6-Trichlorophenol |
| 15.848 | 0.003 164651 | 17.477 | 0.003 197341 | 24.8033 | 24.3762 | 1.7 | 2,4,5-Trichlorophenol |
| 17.355 | 0.004 197880 | 19.026 | 0.003 227423 | 23.6832 | 24.8225 | 4.7 | 2,3,4-Trichlorophenol |
| 17.156 | 0.004 408133 | 18.818 | 0.004 501081 | 24.1403 | 22.8408 | 5.5 | 2,3,5,6-Tetrachlorophenol |
| 20.159 | 0.004 299110 | 22.084 | 0.004 375439 | 23.0408 | 24.5190 | 6.2 | 2,3,4,5-Tetrachlorophenol |
| 12.561 | 0.006 183029 | 13.824 | 0.004 170858 | 285.0291 | 242.1985 | 16.2 | 2,4-Dichlorophenol |
| 18.599 | 0.004 383235 | 20.940 | 0.004 487123 | 24.3 | 23.2 | 4.9 | 2,4,6-Tribromophenol (surr) |

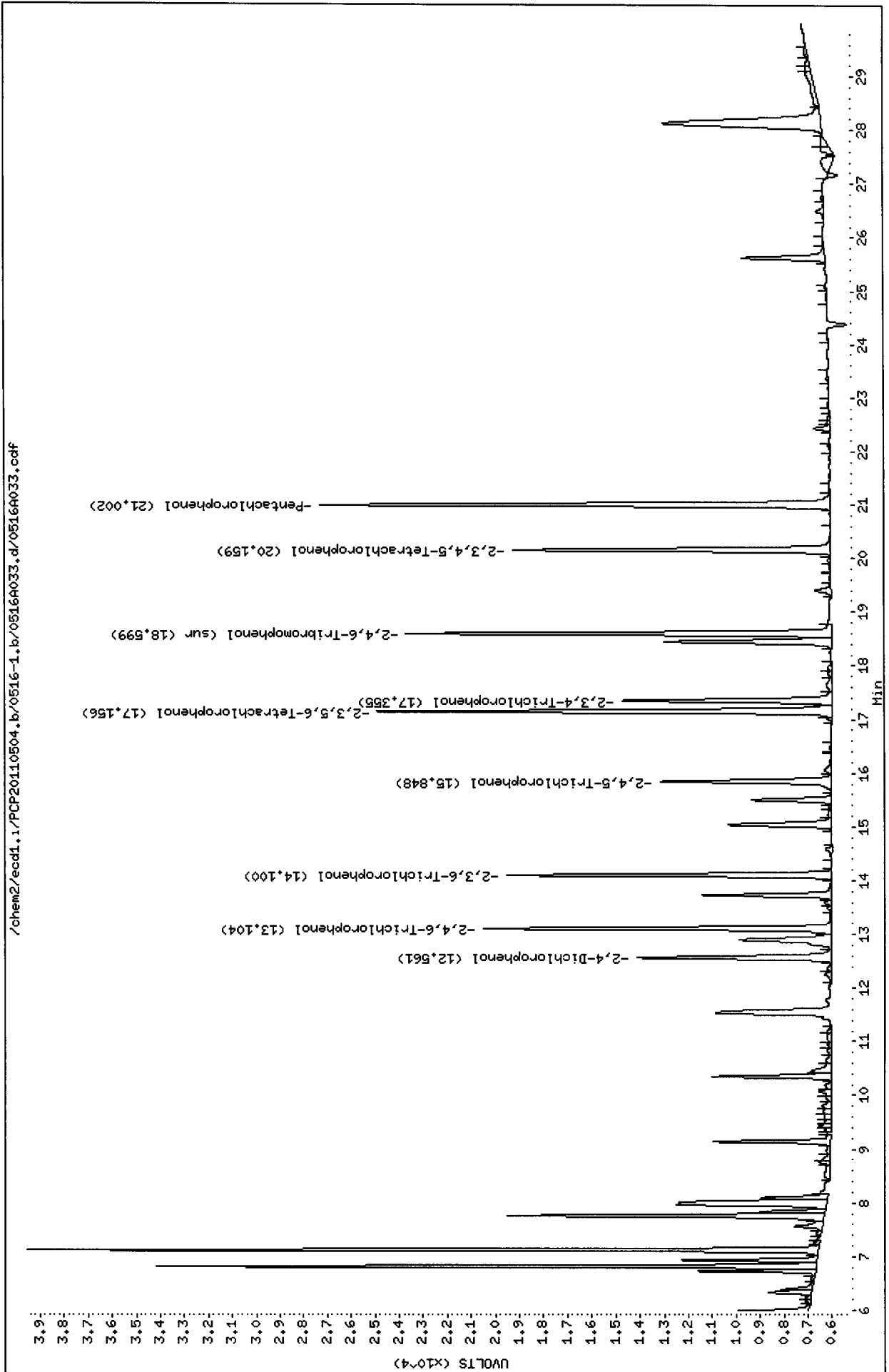
PERCENT RECOVERY

| COMPOUND | Col1 | Col2 |
|---------------------------|-------|------|
| Pentachlorophenol | 95.4 | 93.0 |
| 2,4,6-Trichlorophenol | 96.1 | 92.5 |
| 2,3,6-Trichlorophenol | 94.1 | 90.6 |
| 2,4,5-Trichlorophenol | 99.2 | 97.5 |
| 2,3,4-Trichlorophenol | 94.7 | 99.3 |
| 2,3,5,6-Tetrachlorophenol | 96.6 | 91.4 |
| 2,3,4,5-Tetrachlorophenol | 92.2 | 98.1 |
| 2,4-Dichlorophenol | 114.0 | 96.9 |
| 2,4,6-TBP (surr) | 97.4 | 92.7 |



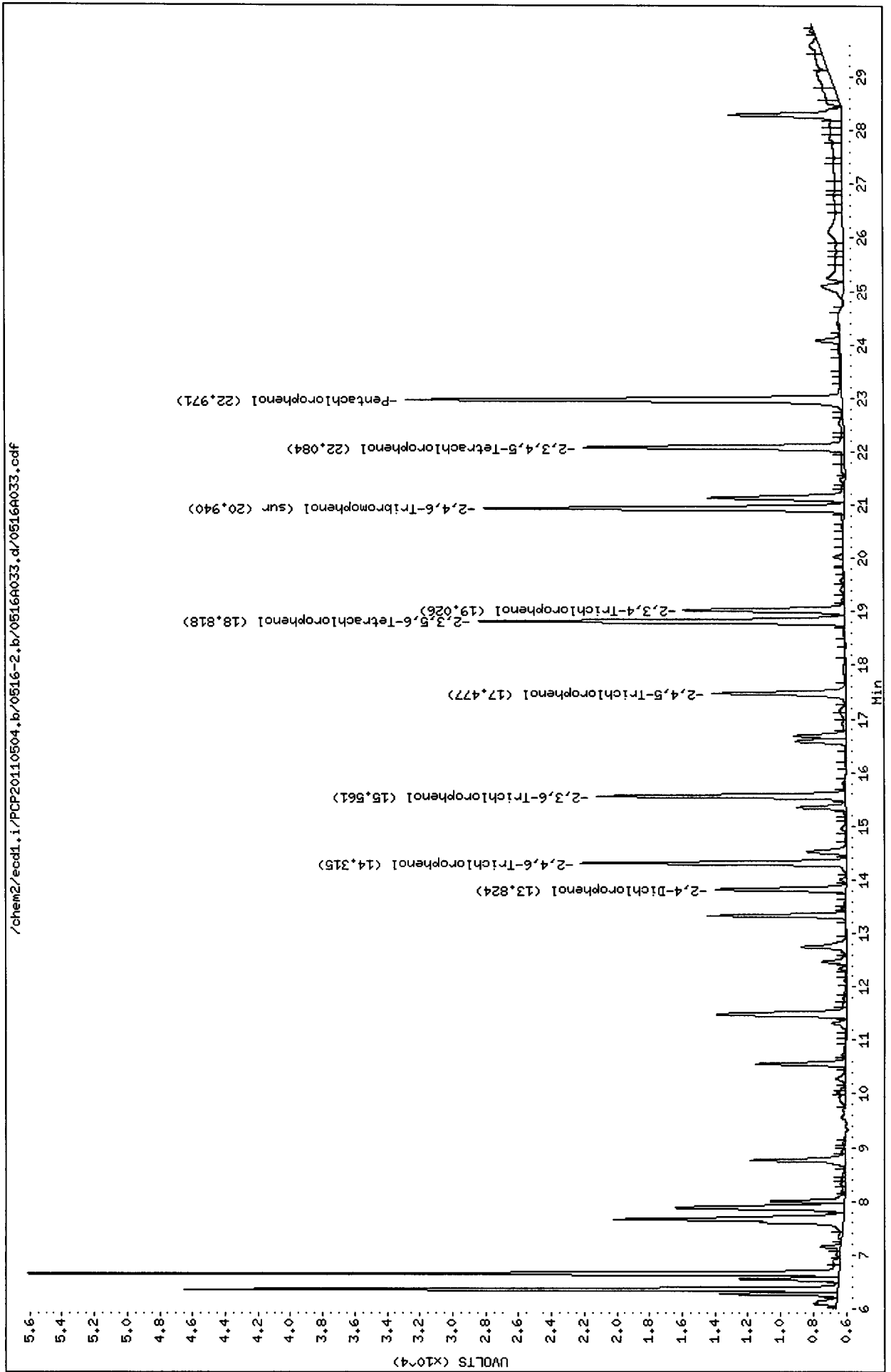


Data File: /chem2/ecdl1.i/PCP20110504.b/0516-1.b/0516A033.d
Date : 17-MAY-2011 07:19
Client ID:
Sample Info: PCP CCAL
Purge Volume: 500.0
Column phase: STX CLP1
Instrument: ecdl1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110504.b/0516-2.b/0516A033.d
Date : 17-MAY-2011 07:19
Client ID:
Sample Info: PCP CCAL
Purge Volume: 500.0
Column phase: STX CLP2

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



**TPHD Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: SU53, SU73, SU74



Preparation Test (TPHD)HCID # 1

ARI Job No(s) SU53

In-House (0.25-0.50ppm)

Batch set up by: JH

| Bottle # | Extraction Requirements | Verify Client ID | Volume Extracted | DryVap Or (KD) | Turbo Vap (1)23 | Acid/Silica Clean (1:1) (Y)N | Final Effective Volume | Volume to Lab | Comments |
|-------------------------|-------------------------|------------------|------------------|-------------------|--------------------|---------------------------------|------------------------|---------------|----------|
| | SU53 MBW | Date 5-4-11 | 500mL | ↓ | ↓ | (Y)N | 1mL | 1mL | |
| | ↓ SBW | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| | SBW Dup. | | ↓ | | | | | | |
| | SU53 QLS | 5-4-11 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 5,6,8 | A | verified | 500mL | ↓ | ↓ | ↓ | ↓ | ↓ | |
| ↓ | Ams | | | | | | | | |
| ↓ | Amsd | | | | | | | | |
| 3 | B | | | | | | | | |
| 12 | C | | | | | | | | |
| 11 | D | | | | | | | | |
| 11 | E | | | | | | | | |
| 10 | F | | | ↓ | ↓ | ↓ | ↓ | ↓ | |
| Analyst/Date: PD 5-4-11 | | | | YL | 05/05/11 | 05/05/11 | 05/05/11 | 05/05/11 | |

| Standard | Standard ID | Volume | Expiration Date | Analyst | Witness |
|-----------|-------------|--------|-----------------|---------|---------|
| Surrogate | O2 | 100µL | 2/24/12 | NL | PD |
| Spike | 11 | 100µL | 11/21/11 | NL | PD |
| QLS Spike | 180 | 50µL | 6/27/11 | NL | PD |

Extraction Time: 09:24

- SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH.
4. Extract 2X with 30mL DCM. 5. DryVap or (KD at 80°) 6. TurboVap if KD. 7. Acid/Silica Clean-ups? (Y) N.
8. Vial in DCM. A. Archive Y (N)



Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: SU53

Client ID: Floyd Swider

Parameter: TPHD w/Ac/si

Client Project: Lorin Lake Apts RF

| Note problems, concerns, corrective actions | Analyst/Date |
|--|------------------|
| Screens: Soil/Sediment/Solid/Other: | |
| <input type="checkbox"/> No Anomalies (standard soil/sediment) | |
| <input type="checkbox"/> Wet sediment/sludge= | |
| <input type="checkbox"/> Standing Water Decanted= | |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay (Difficult to homogenize/Mixed with Kitchen Aid)= | |
| <input type="checkbox"/> Rocks/Organics= | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= | |
| <input type="checkbox"/> Other (Details)= | |
| Aqueous: | |
| <input checked="" type="checkbox"/> No Anomalies <u>E, F.</u> | <u>PD 5-4-11</u> |
| <input checked="" type="checkbox"/> Turbid/Color= <u>A-D are light tan and not turbid.</u> | <u>PD 5-4-11</u> |
| <input type="checkbox"/> Particulates= | |
| <input type="checkbox"/> Emulsions= | |
| <input type="checkbox"/> Other (Details)= | |
| <input type="checkbox"/> Other Notes/Comments= | |
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Preparation Test **TPHD**/HCID # 1

In-House (0.25-0.50ppm)

ARI Job No(s) 5473, 5474

Batch set up by: ST

| Bottle # | Extraction Requirements | Verify Client ID | Volume Extracted | DryVap Or KD | Turbo Vap | Acid/Silica Clean (1:1) | Final Effective Volume | Volume to Lab | Comments |
|--------------------------------|-------------------------|------------------|------------------|---------------------|--------------------|-------------------------|------------------------|---------------|----------|
| | 5473 MBW | Date 5-5-11 | 500mL | ↓ | 103 ↓ | Y N 1mL | 1mL | 1mL | |
| | ↓ SBW | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| | SBW Dup. | | | | | | | | |
| | 5473 QLS | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 10-12 | ↓ A | ✓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 10-12 | ↓ AMS | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 10-12 | ↓ AMSd | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 10 | ↓ B | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 10 | 5474 A | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 10 | ↓ B | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 10 | ↓ C | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| Analyst/Date: <u>TS 5-5-11</u> | | | | <u>PR 5/10/11</u> | <u>CJZ 5/10/11</u> | → | | | |

| Standard | Standard ID | Volume | Expiration Date | Analyst | Witness |
|-----------|-------------|--------|-----------------|---------|---------|
| Surrogate | 02 | 100µL | 2/24/12 | NL | PD |
| Spike | 11 | 100µL | 11/21/11 | NL | PD |
| QLS Spike | 180 | 50µL | 6/22/11 | NL | PD |

Extraction Time:

SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH.

4. Extract 2X with 30mL DCM. 5. DryVap or **KD** at 80°. 6. TurboVap if KD. 7. Acid/Silica Clean-ups? Y/N.

8. Vial in DCM.

A. Archive Y **(N)**



ARI Job No.: 5U73

Client ID: Floyd Suider

Parameter: TPHO w/AcIs

Client Project: Lain Lake Apts RI

| Note problems, concerns, corrective actions | Analyst/Date |
|---|------------------|
| Screens: Soil/Sediment/Solid/Other: | |
| <input checked="" type="checkbox"/> No Anomalies (standard soil/sediment) | <u>JS 5/5/11</u> |
| <input type="checkbox"/> Wet sediment/sludge= | |
| <input type="checkbox"/> Standing Water Decanted= | |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay (Difficult to homogenize/Mixed with Kitchen Aid)= | |
| <input type="checkbox"/> Rocks/Organics= | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= | |
| <input type="checkbox"/> Other (Details)= | |
| | |
| Aqueous: | |
| <input type="checkbox"/> No Anomalies | |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates= | |
| <input type="checkbox"/> Emulsions= | |
| <input type="checkbox"/> Other (Details)= | |
| | |
| <input type="checkbox"/> Other Notes/Comments= | |
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Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: 3074

Client ID: Floyd Snider

Parameter: TPHD w/AC/si

Client Project: Lora Lake Parcel

| Note problems, concerns, corrective actions | Analyst/Date |
|---|------------------|
| Screens: Soil/Sediment/Solid/Other: | |
| <input type="checkbox"/> No Anomalies (standard soil/sediment) | |
| <input type="checkbox"/> Wet sediment/sludge= | |
| <input type="checkbox"/> Standing Water Decanted= | |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay (Difficult to homogenize/Mixed with Kitchen Aid)= | |
| <input type="checkbox"/> Rocks/Organics= | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= | |
| <input type="checkbox"/> Other (Details)= | |
| | |
| | |
| Aqueous: | |
| <input checked="" type="checkbox"/> No Anomalies | <u>TS 5/5/11</u> |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates= | |
| <input type="checkbox"/> Emulsions= | |
| <input type="checkbox"/> Other (Details)= | |
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| <input type="checkbox"/> Other Notes/Comments= | |
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TPHD Raw Data
Initial Calibration

ARI Job ID: SU53, SU73, SU74



GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel CURVE Client ID: ART

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): Diesel #2, AK 702, Stapheny!

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
 FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/20/11 Analysis Start: 1/20/11

- Endrin/DDT Breakdown <15%? YES / NO / NA YES NO NA
- Method Blank In Control? YES / NO YES NO NA
- ICal Meets RF & %RSD Criteria? YES / NO YES NO NA
- LCS/LCSD Recovery In Control? YES / NO YES NO NA
- CCal Meets RF & %RSD Criteria? YES / NO YES NO NA
- Surrogate Recovery In Control? YES / NO YES NO NA
- Manual Integrations for ICal? YES / NO YES NO NA
- Manual Integrations for Samples? YES / NO YES NO NA
- Internal Standard Meets Criteria? YES / NO / NA YES NO NA
- Special Analysis Criteria Met? YES / NO / NA YES NO NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes No

Analyst: ma Date: 1/31/11

Reviewer: WJ Date: 2-1-11

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 1/20/11 Analysis: NUSTPHO Analyst: ms

GC Program: TPH Column No: 977444 Column Type: RTX-1

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 1/20/11

| IS/SS | Ical/Ccal | LCS/ICV |
|-------|-----------|---------|
| / | 1786-1 | / |
| / | AT-2 | / |
| / | 1777-3 | / |
| / | AT-2 | / |

| Inject | Date/Time | Filename | DF | LabID |
|--------|-------------------|------------|----|-------------|
| 1 | 20-JAN-2011 12:42 | 0120A001.D | 1 | RINSE |
| 2 | 20-JAN-2011 13:03 | 0120A002.D | 1 | RINSE |
| 3 | 20-JAN-2011 13:24 | 0120A003.D | 1 | RINSE |
| 4 | 20-JAN-2011 15:09 | 0120A004.D | 1 | RINSE |
| 5 | 20-JAN-2011 15:30 | 0120A005.D | 1 | RT |
| 6 | 20-JAN-2011 15:52 | 0120A006.D | 1 | IB |
| 7 | 20-JAN-2011 16:13 | 0120A007.D | 1 | DIESEL 50 |
| 8 | 20-JAN-2011 16:34 | 0120A008.D | 1 | DIESEL 100 |
| 9 | 20-JAN-2011 16:56 | 0120A009.D | 1 | DIESEL 250 |
| 10 | 20-JAN-2011 17:17 | 0120A010.D | 1 | DIESEL 500 |
| 11 | 20-JAN-2011 17:39 | 0120A011.D | 1 | DIESEL 1000 |
| 12 | 20-JAN-2011 18:00 | 0120A012.D | 1 | Blank |
| 13 | 20-JAN-2011 18:22 | 0120A013.D | 1 | DIESEL ICV |
| 14 | 20-JAN-2011 18:43 | 0120A014.D | 1 | DIESEL 2500 |
| 15 | 20-JAN-2011 19:04 | 0120A015.D | 1 | MOIL 100 |
| 16 | 20-JAN-2011 19:26 | 0120A016.D | 1 | MOIL 250 |
| 17 | 20-JAN-2011 19:47 | 0120A017.D | 1 | MOIL 500 |
| 18 | 20-JAN-2011 20:08 | 0120A018.D | 1 | MOIL 1000 |
| 19 | 20-JAN-2011 20:30 | 0120A019.D | 1 | MOIL 2500 |
| 20 | 20-JAN-2011 20:51 | 0120A020.D | 1 | MOIL 5000 |
| 21 | 20-JAN-2011 21:12 | 0120A021.D | 1 | MOIL ICV |
| 22 | 20-JAN-2011 21:34 | 0120A022.D | 1 | DIESEL#1 |
| 23 | 20-JAN-2011 21:55 | 0120A023.D | 1 | MOIL#1 |
| 24 | 20-JAN-2011 22:16 | 0120A024.D | 1 | SE57MBW1 |
| 25 | 20-JAN-2011 22:38 | 0120A025.D | 1 | SE57LCSW1 |
| 26 | 20-JAN-2011 22:59 | 0120A026.D | 1 | SE57LCSDW1 |
| 27 | 20-JAN-2011 23:21 | 0120A027.D | 1 | SE57QLS |
| 28 | 20-JAN-2011 23:42 | 0120A028.D | 1 | SE57A |
| 29 | 21-JAN-2011 00:03 | 0120A029.D | 1 | SF16MBS1 |
| 30 | 21-JAN-2011 00:25 | 0120A030.D | 1 | SF16LCSS1 |
| 31 | 21-JAN-2011 00:46 | 0120A031.D | 1 | SF16LCSDS1 |
| 32 | 21-JAN-2011 01:08 | 0120A032.D | 1 | SF16QLS |
| 33 | 21-JAN-2011 01:29 | 0120A033.D | 10 | SF16A |
| 34 | 21-JAN-2011 01:50 | 0120A034.D | 5 | SF16B |
| 35 | 21-JAN-2011 02:12 | 0120A035.D | 1 | DIESEL#2 |
| 36 | 21-JAN-2011 02:33 | 0120A036.D | 1 | MOIL#2 |

ms 1/24/11

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20110120.b

ARI Job No.: DIES Method: ftphfid9a.m Instrument: fid9.i Date: 20-JAN-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

1613 0120A007.D DIESEL 50 DIESEL 50 1 o-terph,

1634 0120A008.D DIESEL 100 DIESEL 100 1 o-terph,

1656 0120A009.D DIESEL 250 DIESEL 250 1 o-terph,

1717 0120A010.D DIESEL 500 DIESEL 500 1 o-terph,

1739 0120A011.D DIESEL 1000 DIESEL 100 1 o-terph,

1800 0120A012.D Blank 1 NO MANUAL INTEGRATION

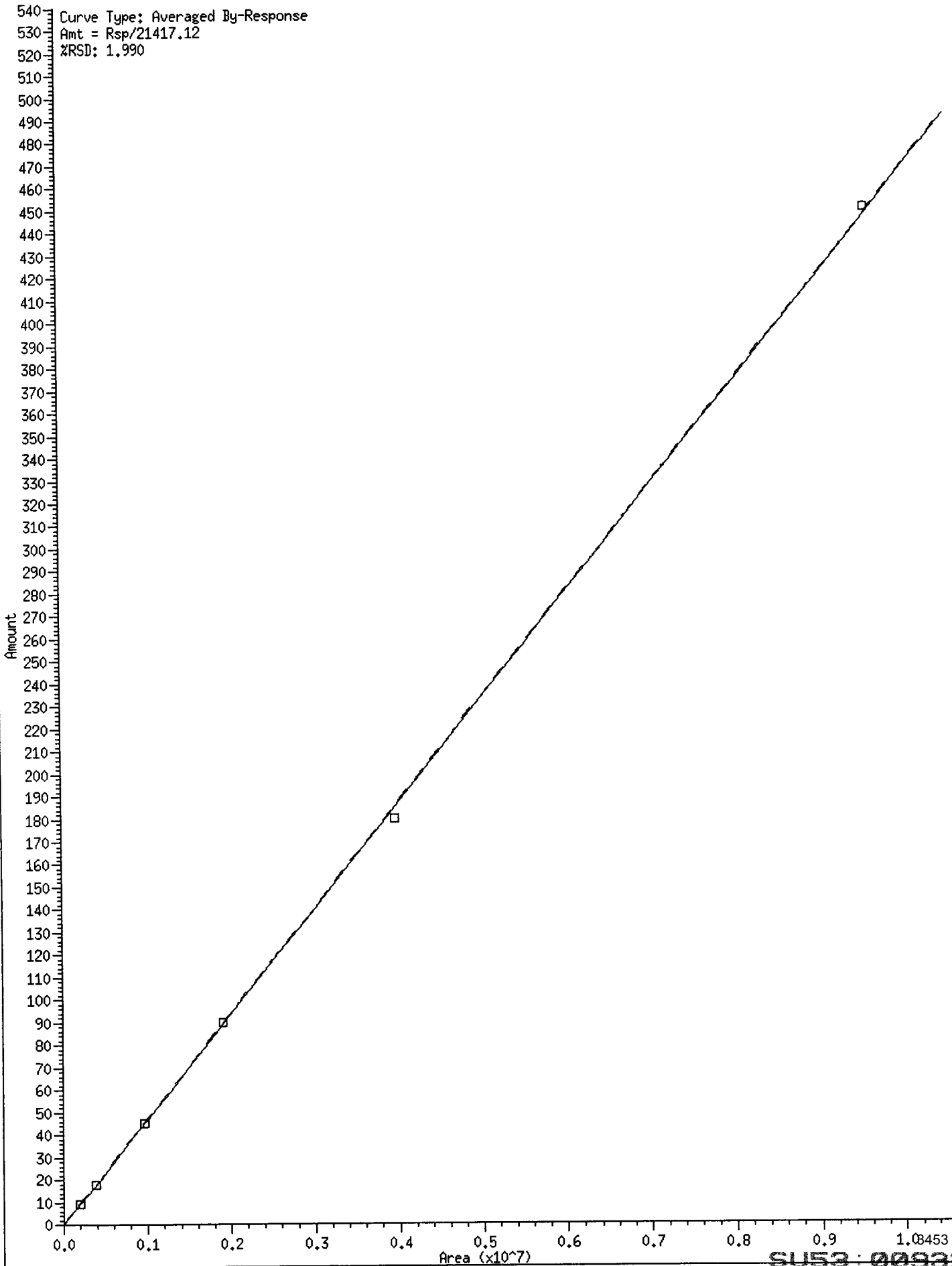
1822 0120A013.D DIESEL ICV 1 o-terph,

1843 0120A014.D DIESEL 2500 DIESEL 250 1 o-terph,

FID 9
1/20/11

* 8 o-terph

Curve Type: Averaged By-Response
Amt = Rsp/21417.12
%RSD: 1.990

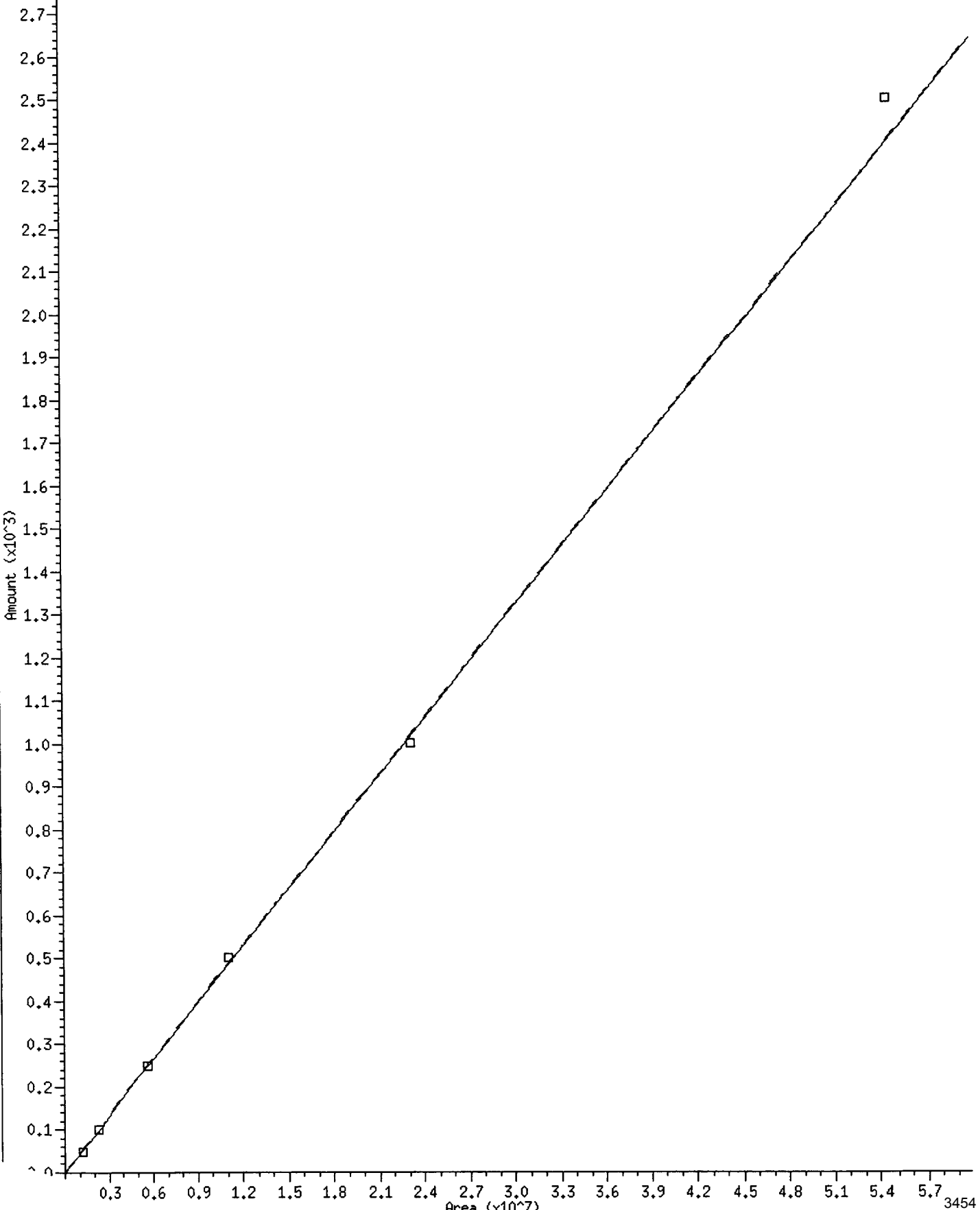


SU53: 00532

F109
1/20/11

31 NW Diesel

Curve Type: Averaged By-Response
Amt = Rsp/22653.08
%RSD: 3.542

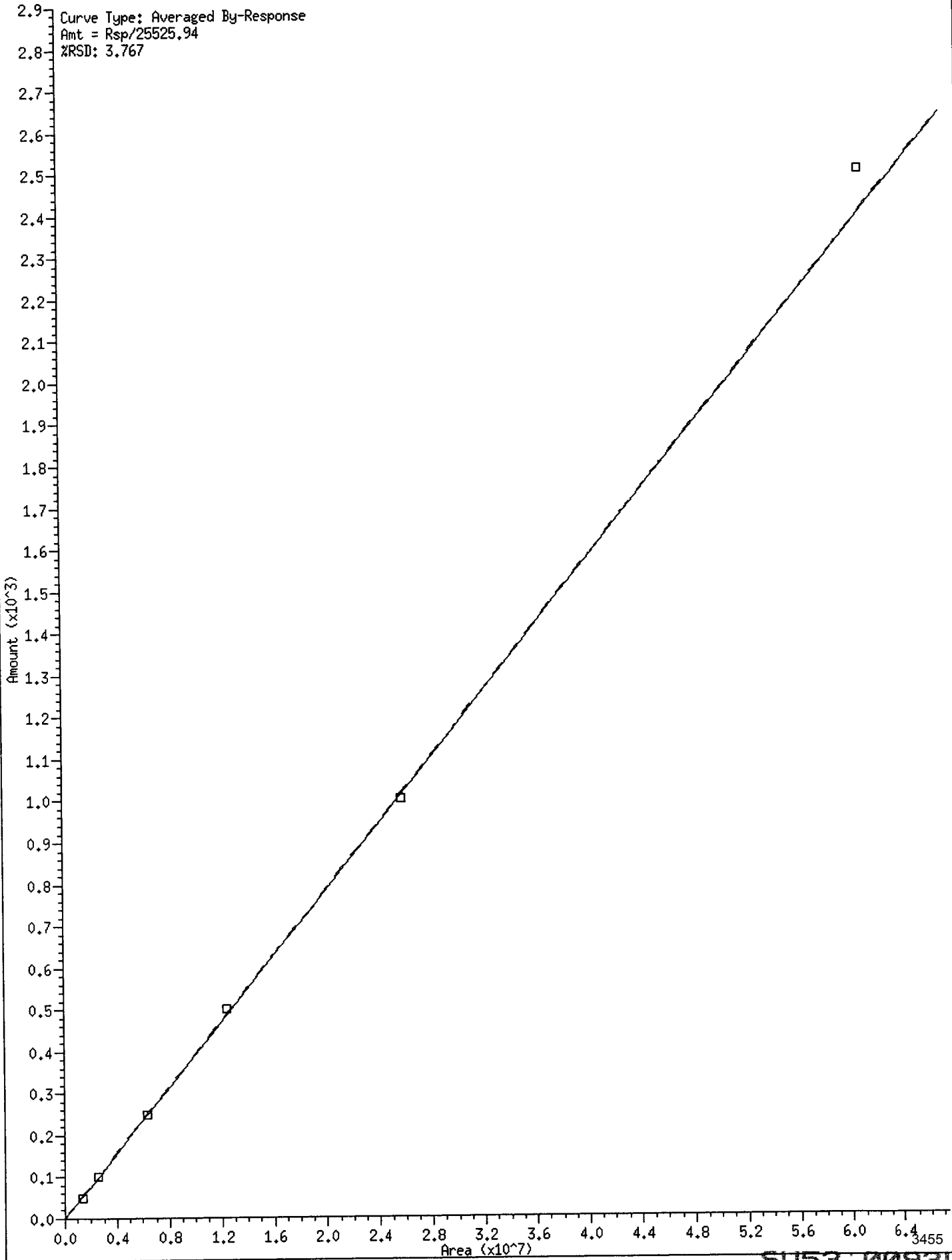


SU53: 00933

F109
1/20/11

33 AK Dies 102

Curve Type: Averaged By-Response
Amt = Rsp/25525.94
%RSD: 3.767



S053: 00934

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ftd9.i/20110120.b/ftphfid9a.m
Batch File: /chem2/ftd9.i/20110120.b
Inst ID: ftd9.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 0120A015 0120A016 0120A017 0120A018 0120A019 0120A020
INJ.DATE: 20-JAN-2011 20-JAN-2011 20-JAN-2011 20-JAN-2011 20-JAN-2011 20-JAN-2011
INJ.TIME: 19:04 19:26 19:47 20:08 20:30 20:51

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------|-------|-------|-------|-------|-------|-------|----------|-------------|--------|---------|
| 1 Toluene | 1.389 | 1.321 | 1.323 | 1.320 | 1.322 | 1.324 | 1.303 | 1.203-1.403 | 1.333 | 0.028 |
| 37 JET-A | 1.376 | 1.370 | 1.368 | 1.371 | 1.378 | 1.370 | 1.370 | 1.320-1.420 | 1.372 | 0.004 |
| 2 C8 | 1.520 | 1.516 | 1.529 | 1.512 | 1.515 | 1.529 | 1.519 | 1.419-1.619 | 1.520 | 0.007 |
| 3 C10 | 1.989 | 1.987 | 1.986 | 1.988 | 1.988 | 1.985 | 1.988 | 1.938-2.038 | 1.987 | 0.001 |
| 4 C12 | 2.634 | 2.624 | 2.617 | 2.631 | 2.626 | 2.625 | 2.623 | 2.573-2.673 | 2.626 | 0.006 |
| 5 C14 | 3.146 | 3.163 | 3.148 | 3.147 | 3.165 | 3.162 | 3.156 | 3.106-3.206 | 3.155 | 0.009 |
| 6 C16 | 3.622 | 3.617 | 3.626 | 3.633 | 3.631 | 3.629 | 3.627 | 3.577-3.677 | 3.626 | 0.006 |
| 7 C18 | 4.057 | 4.054 | 4.052 | 4.052 | 4.051 | 4.051 | 4.049 | 3.999-4.099 | 4.053 | 0.002 |
| 8 o-terph | 4.171 | 4.170 | 4.168 | 4.169 | 4.167 | 4.166 | 4.168 | 4.118-4.218 | 4.169 | 0.002 |
| 9 C20 | 4.438 | 4.435 | 4.431 | 4.436 | 4.436 | 4.436 | 4.435 | 4.385-4.485 | 4.436 | 0.003 |
| 10 C22 | 4.821 | 4.825 | 4.823 | 4.828 | 4.828 | 4.831 | 4.827 | 4.777-4.877 | 4.826 | 0.004 |
| 11 C24 | 5.322 | 5.324 | 5.320 | 5.329 | 5.327 | 5.322 | 5.324 | 5.274-5.374 | 5.324 | 0.003 |
| 12 C25 | 5.544 | 5.549 | 5.545 | 5.550 | 5.549 | 5.550 | 5.548 | 5.498-5.598 | 5.548 | 0.003 |
| 13 C26 | 5.750 | 5.752 | 5.746 | 5.746 | 5.747 | 5.743 | 5.749 | 5.699-5.799 | 5.748 | 0.003 |
| 14 C28 | 6.101 | 6.104 | 6.106 | 6.104 | 6.101 | 6.106 | 6.104 | 6.054-6.154 | 6.104 | 0.002 |
| 15 Triacon Surr | 6.413 | 6.419 | 6.424 | 6.435 | 6.459 | 6.496 | 6.422 | 6.372-6.472 | 6.441 | 0.032 |
| 16 C32 | 6.693 | 6.694 | 6.694 | 6.696 | 6.693 | 6.698 | 6.696 | 6.646-6.746 | 6.695 | 0.002 |

Reviewer 1 Jan 28 Date: 1/31/11
Reviewer 2 Jan 28 Date: 2-1-11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20110120.b/ftphfid9a.m
Batch File: /chem2/fid9.i/20110120.b
Inst ID: fid9.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 17 C34 | 6.953 | 6.958 | 6.964 | 6.965 | 6.956 | 6.958 | 6.959 | 6.909-7.009 | 6.959 | 0.005 |
| 18 Filter Peak | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.769 | 12.669-12.869 | +++++ | +++++ |
| 19 C36 | 7.214 | 7.203 | 7.205 | 7.209 | 7.215 | 7.214 | 7.209 | 7.159-7.259 | 7.210 | 0.005 |
| 20 C38 | 7.451 | 7.447 | 7.447 | 7.456 | 7.446 | 7.452 | 7.448 | 7.398-7.498 | 7.450 | 0.004 |
| 21 C40 | 7.731 | 7.722 | 7.725 | 7.719 | 7.723 | 7.722 | 7.723 | 7.673-7.773 | 7.724 | 0.004 |
| 31 NW Diesel | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.513 | 0.463-0.563 | +++++ | +++++ |
| 32 OR Diesel | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.690 | 0.640-0.740 | +++++ | +++++ |
| 33 AK Dies 102 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.660 | 0.610-0.710 | +++++ | +++++ |
| 30 NW MOil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 34 OR MOil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 35 AK MOil 103 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.658 | 0.608-0.708 | +++++ | +++++ |
| 38 Bunker C | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.705 | 0.655-0.755 | +++++ | +++++ |
| 39 Creosote | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.550 | 0.500-0.600 | +++++ | +++++ |

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A005.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: RT
Client ID: RT
Injection: 20-JAN-2011 15:30
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|-------|---------|--------|-------------------|------------|------|
| Toluene | 1.303 | 0.000 | 383937 | 277413 | GAS (Tol-C12) | 998508 | 48 M |
| C8 | 1.519 | 0.000 | 53885 | 28465 | DIESEL (C12-C24) | 1655661 | 73 |
| C10 | 1.988 | 0.000 | 657169 | 294726 | M.OIL (C24-C38) | 1825693 | 138 |
| C12 | 2.623 | 0.000 | 676220 | 289238 | AK-102 (C10-C25) | 2271772 | 89 |
| C14 | 3.156 | 0.000 | 587065 | 285605 | AK-103 (C25-C36) | 1573197 | 185 |
| C16 | 3.627 | 0.000 | 678327 | 282100 | | | |
| C18 | 4.049 | 0.000 | 649103 | 277428 | | | |
| C20 | 4.435 | 0.000 | 617954 | 270911 | | | |
| C22 | 4.827 | 0.000 | 422551 | 260123 | | | |
| C24 | 5.324 | 0.000 | 385629 | 251401 | | | |
| C25 | 5.548 | 0.000 | 508484 | 337875 | | | |
| C26 | 5.749 | 0.000 | 386378 | 243690 | | | |
| C28 | 6.104 | 0.000 | 394465 | 236165 | | | |
| C32 | 6.696 | 0.000 | 375697 | 230951 | JP-4 (Tol-C14) | 1294923 | 79 M |
| C34 | 6.959 | 0.000 | 351484 | 236984 | BUNKERC (C10-C38) | 4092053 | 484 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.209 | 0.000 | 339607 | 248990 | | | |
| C38 | 7.448 | 0.000 | 272516 | 232146 | | | |
| C40 | 7.723 | 0.000 | 188027 | 195470 | | | |
| o-terph | 4.168 | 0.000 | 1676827 | 913732 | JET-A (C10-C18) | 1475173 | 107 |
| Triacon Surr | 6.422 | 0.000 | 1043688 | 719648 | JP8 (Tol-C16) | 1582493 | 90 M |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 913732 | 42.7 | 94.8 |
| Triacontane | 719648 | 40.8 | 90.7 |

Handwritten signature
Jan 31/11

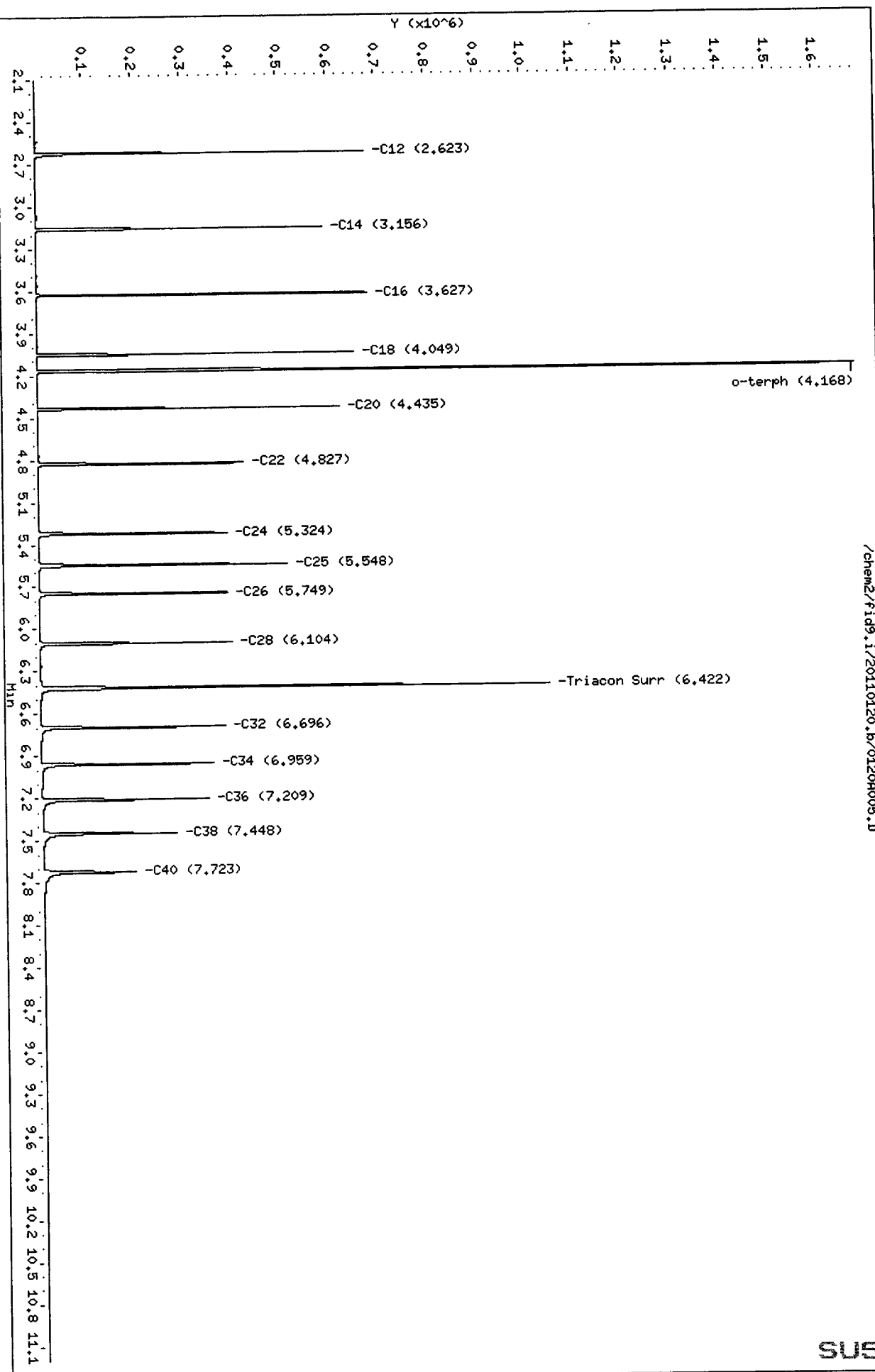
| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01204005.D
Date: 20-JAN-2011 15:30
Client ID: RT
Sample Info: RT

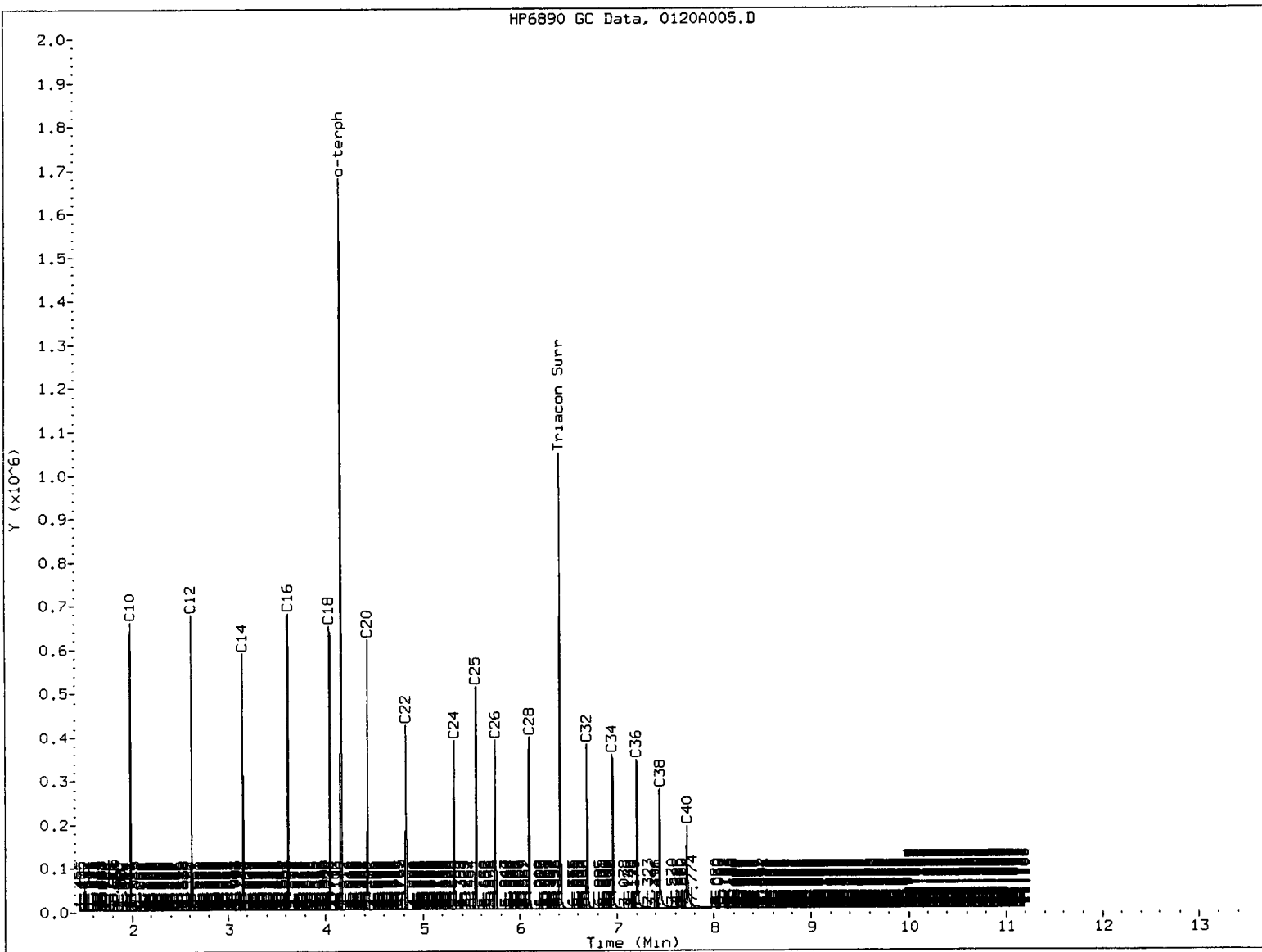
Column phase: RTX-1

/chem2/fid9.i/20110120.b/01204005.D

Instrument: fid9.i
Operator: JR
Column diameter: 0.25



HP6890 GC Data, 0120A005.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: *1/31/11*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A006.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: IB
Client ID:
Injection: 20-JAN-2011 15:52
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|------|
| Toluene | 1.322 | 0.019 | 63463 | 64572 | GAS (Tol-C12) | 139212 | 7 |
| C8 | 1.519 | 0.000 | 7460 | 7425 | DIESEL (C12-C24) | 22665 | 1 |
| C10 | 1.987 | -0.001 | 1338 | 1740 | M.OIL (C24-C38) | 44620 | 3 |
| C12 | 2.612 | -0.011 | 706 | 1274 | AK-102 (C10-C25) | 44595 | 2 |
| C14 | 3.152 | -0.005 | 306 | 190 | AK-103 (C25-C36) | 32471 | 4 |
| C16 | 3.625 | -0.002 | 165 | 22 | | | |
| C18 | 4.049 | 0.000 | 184 | 200 | | | |
| C20 | 4.437 | 0.002 | 136 | 115 | | | |
| C22 | 4.830 | 0.003 | 67 | 18 | | | |
| C24 | 5.318 | -0.006 | 33 | 22 | | | |
| C25 | 5.546 | -0.002 | 53 | 25 | | | |
| C26 | 5.745 | -0.004 | 45 | 34 | | | |
| C28 | 6.099 | -0.005 | 256 | 173 | | | |
| C32 | 6.695 | -0.001 | 1292 | 2211 | JP-4 (Tol-C14) | 148417 | 9 |
| C34 | 6.957 | -0.002 | 875 | 1419 | BUNKERC (C10-C38) | 89113 | 11 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.209 | 0.000 | 656 | 194 | | | |
| C38 | 7.447 | -0.001 | 938 | 390 | | | |
| C40 | 7.718 | -0.005 | 1264 | 377 | | | |
| o-terph | 4.171 | 0.003 | 1830174 | 1085386 | JET-A (C10-C18) | 40391 | 3 |
| Triacon Surr | 6.421 | -0.001 | 1029861 | 732679 | JP8 (Tol-C16) | 154222 | 9 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1085386 | 50.7 | 112.6 |
| Triacontane | 732679 | 41.6 | 92.4 |

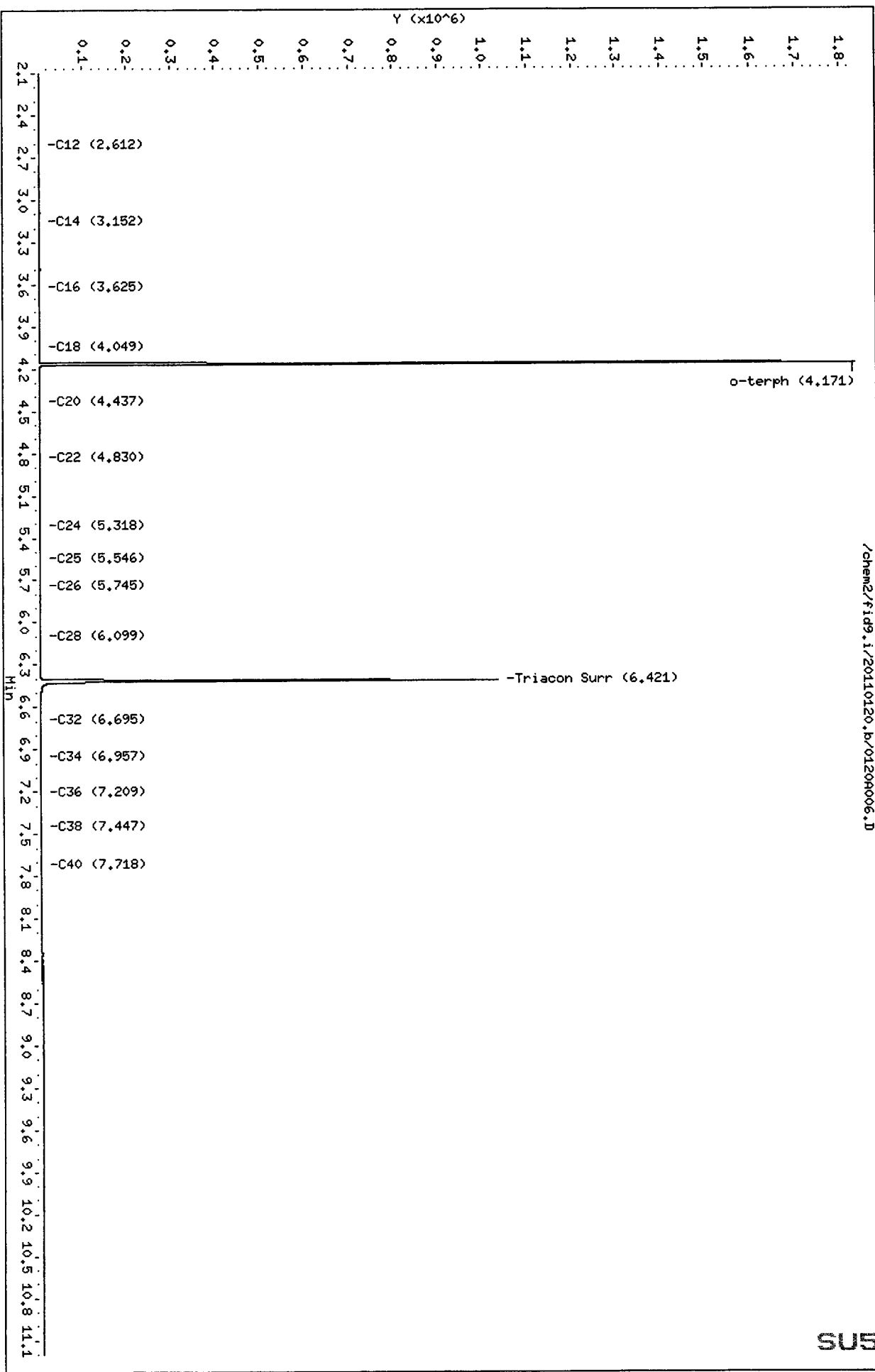
| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/0120A006.D
Date: 20-JAN-2011 15:52
Client ID:
Sample Info: IB

Column phase: RTX-1

/chem2/fid9.i/20110120.b/0120A006.D

Instrument: fid9.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A007.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: DIESEL 50
Client ID: DIESEL 50
Injection: 20-JAN-2011 16:13
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.325 | 0.022 | 4316 | 9749 | GAS (Tol-C12) | 260141 | 12 |
| C8 | 1.518 | -0.001 | 4723 | 3015 | DIESEL (C12-C24) | 1201950 | 53 ✓ |
| C10 | 1.986 | -0.002 | 9019 | 7034 | M.OIL (C24-C38) | 29106 | 2 |
| C12 | 2.624 | 0.002 | 19691 | 12552 | AK-102 (C10-C25) | 1361439 | 53 M |
| C14 | 3.160 | 0.003 | 35985 | 22344 | AK-103 (C25-C36) | 17309 | 2 |
| C16 | 3.627 | 0.000 | 64307 | 36363 | | | |
| C18 | 4.048 | -0.001 | 56312 | 40699 | | | |
| C20 | 4.434 | -0.001 | 30544 | 20004 | | | |
| C22 | 4.826 | -0.001 | 9899 | 9065 | | | |
| C24 | 5.323 | -0.001 | 2311 | 2776 | | | |
| C25 | 5.548 | 0.000 | 882 | 943 | | | |
| C26 | 5.749 | 0.000 | 291 | 394 | | | |
| C28 | 6.100 | -0.003 | 38 | 22 | | | |
| C32 | 6.691 | -0.005 | 160 | 58 | JP-4 (Tol-C14) | 484680 | 30 |
| C34 | 6.953 | -0.006 | 440 | 580 | BUNKERC (C10-C38) | 1387701 | 164 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.210 | 0.001 | 507 | 457 | | | |
| C38 | 7.447 | -0.001 | 794 | 282 | | | |
| C40 | 7.725 | 0.003 | 1071 | 320 | | | |
| o-terph | 4.162 | -0.006 | 439550 | 196937 | JET-A (C10-C18) | 1030119 | 75 |
| Triacon Surr | 6.413 | -0.008 | 226 | 272 | JP8 (Tol-C16) | 799073 | 45 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 196937 | 9.2 | 20.4 |
| Triacontane | 272 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01200007.D

Date: 20-JAN-2011 16:13

Client ID: DIESEL 50

Sample Info: DIESEL 50

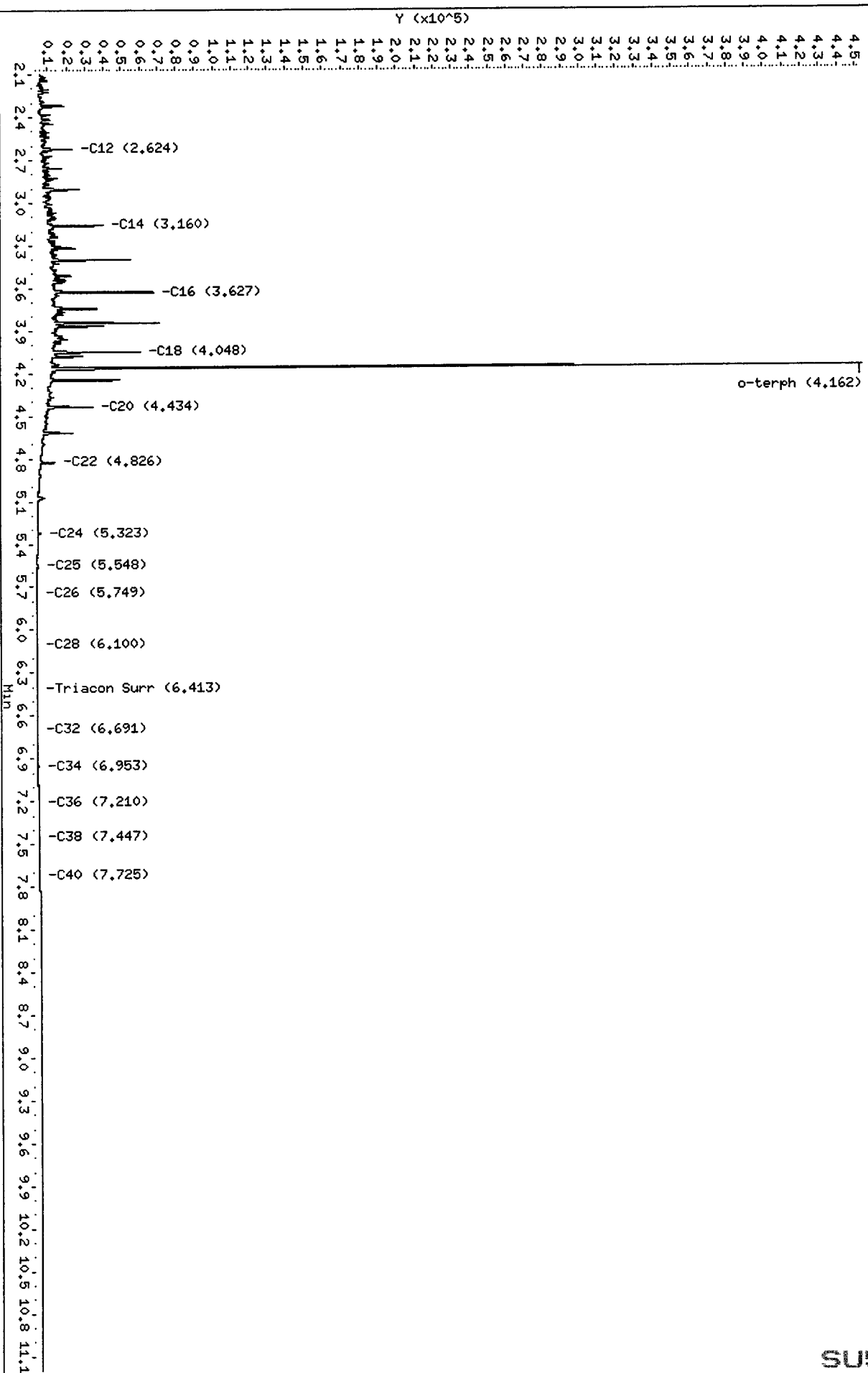
Column phase: RTX-1

Instrument: fid9.i

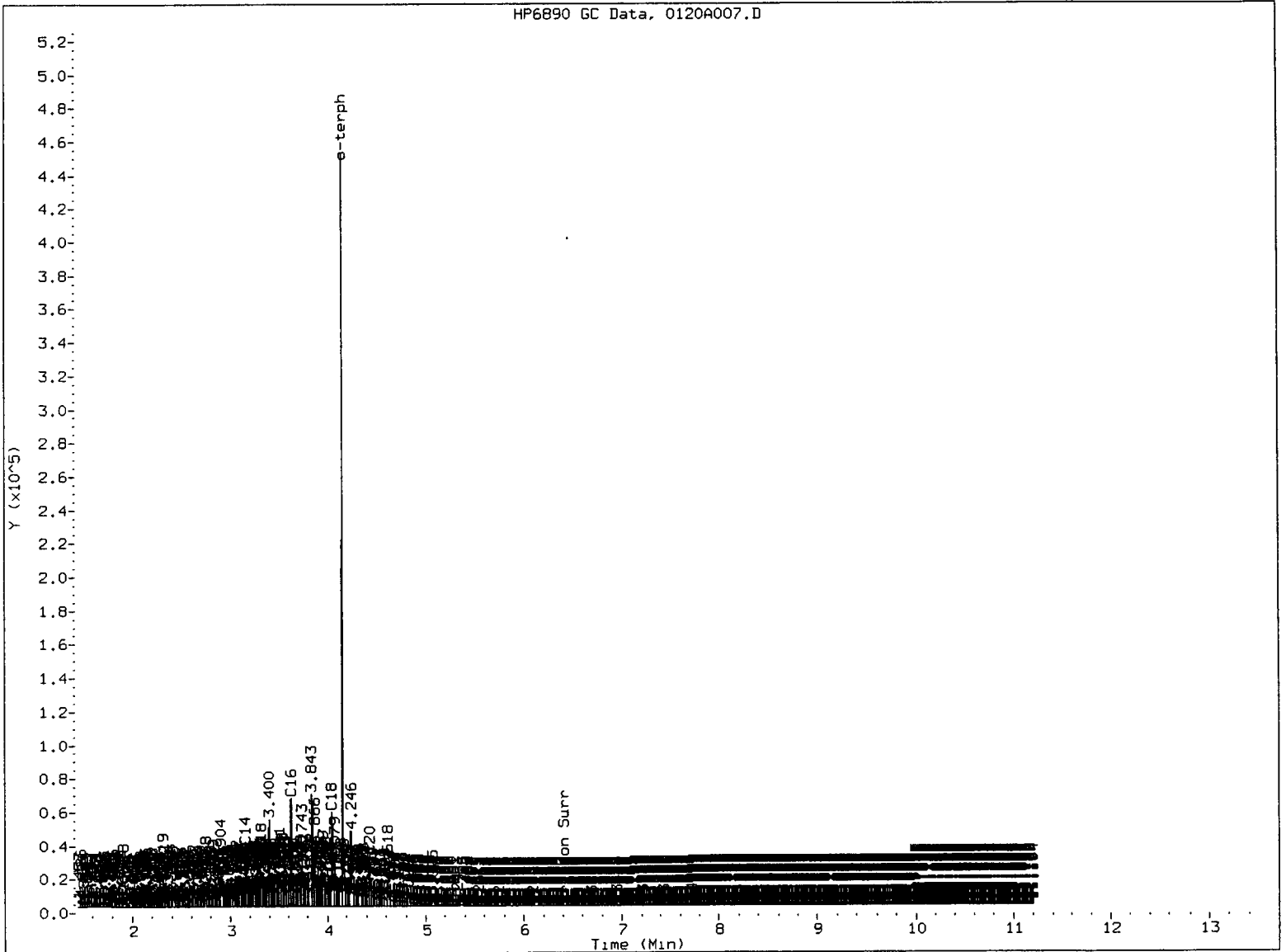
Operator: JR

Column diameter: 0.25

/chem2/fid9.i/20110120.b/01200007.D



HP6890 GC Data, 0120A007.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst:

Date:

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A008.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: DIESEL 100
Client ID: DIESEL 100
Injection: 20-JAN-2011 16:34
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.323 | 0.020 | 4200 | 1169 | GAS (Tol-C12) | 431533 | 21 |
| C8 | 1.519 | 0.000 | 3135 | 1746 | DIESEL (C12-C24) | 2250682 | 99 |
| C10 | 1.986 | -0.002 | 16882 | 11699 | M.OIL (C24-C38) | 37206 | 3 |
| C12 | 2.624 | 0.001 | 37179 | 23233 | AK-102 (C10-C25) | 2548528 | 100 M |
| C14 | 3.158 | 0.002 | 67785 | 42725 | AK-103 (C25-C36) | 22817 | 3 |
| C16 | 3.626 | -0.001 | 123251 | 70743 | | | |
| C18 | 4.047 | -0.003 | 108435 | 68087 | | | |
| C20 | 4.434 | -0.002 | 59788 | 39985 | | | |
| C22 | 4.825 | -0.003 | 20235 | 17023 | | | |
| C24 | 5.322 | -0.002 | 4892 | 5420 | | | |
| C25 | 5.546 | -0.002 | 1976 | 2143 | | | |
| C26 | 5.749 | 0.000 | 641 | 866 | | | |
| C28 | 6.101 | -0.003 | 63 | 36 | | | |
| C32 | 6.697 | 0.001 | 141 | 107 | JP-4 (Tol-C14) | 830791 | 51 |
| C34 | 6.959 | 0.000 | 643 | 897 | BUNKERC (C10-C38) | 2580649 | 305 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.206 | -0.003 | 455 | 223 | | | |
| C38 | 7.448 | -0.001 | 744 | 288 | | | |
| C40 | 7.725 | 0.003 | 995 | 554 | | | |
| o-terph | 4.163 | -0.005 | 800604 | 375926 | JET-A (C10-C18) | 1919949 | 139 |
| Triacon Surr | 6.413 | -0.009 | 215 | 233 | JP8 (Tol-C16) | 1419731 | 81 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 375926 | 17.6 | 39.0 |
| Triacontane | 233 | 0.0 | 0.0 |

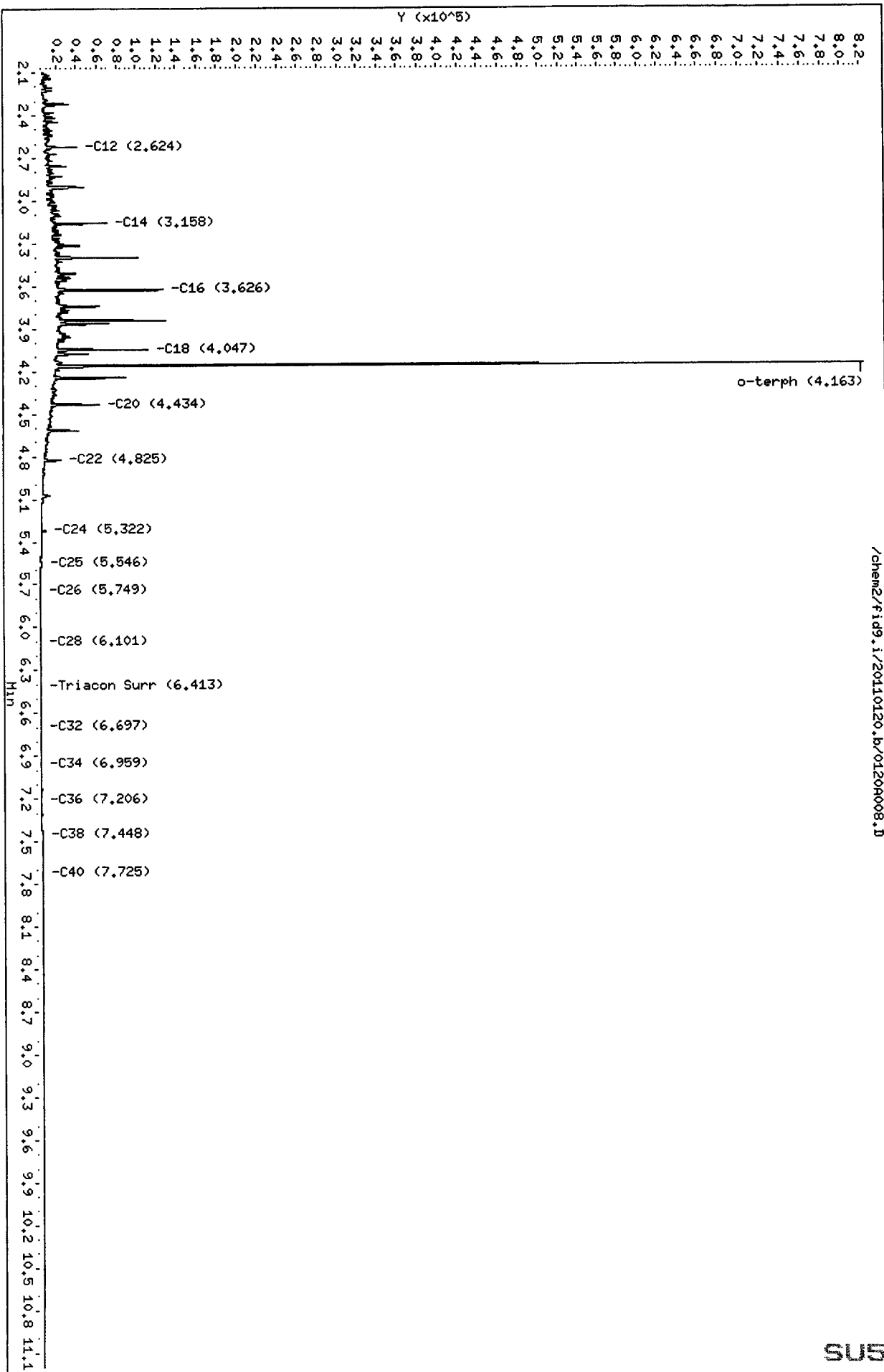
| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01200008.D
Date : 20-JAN-2011 16:34
Client ID: DIESEL 100
Sample Info: DIESEL 100

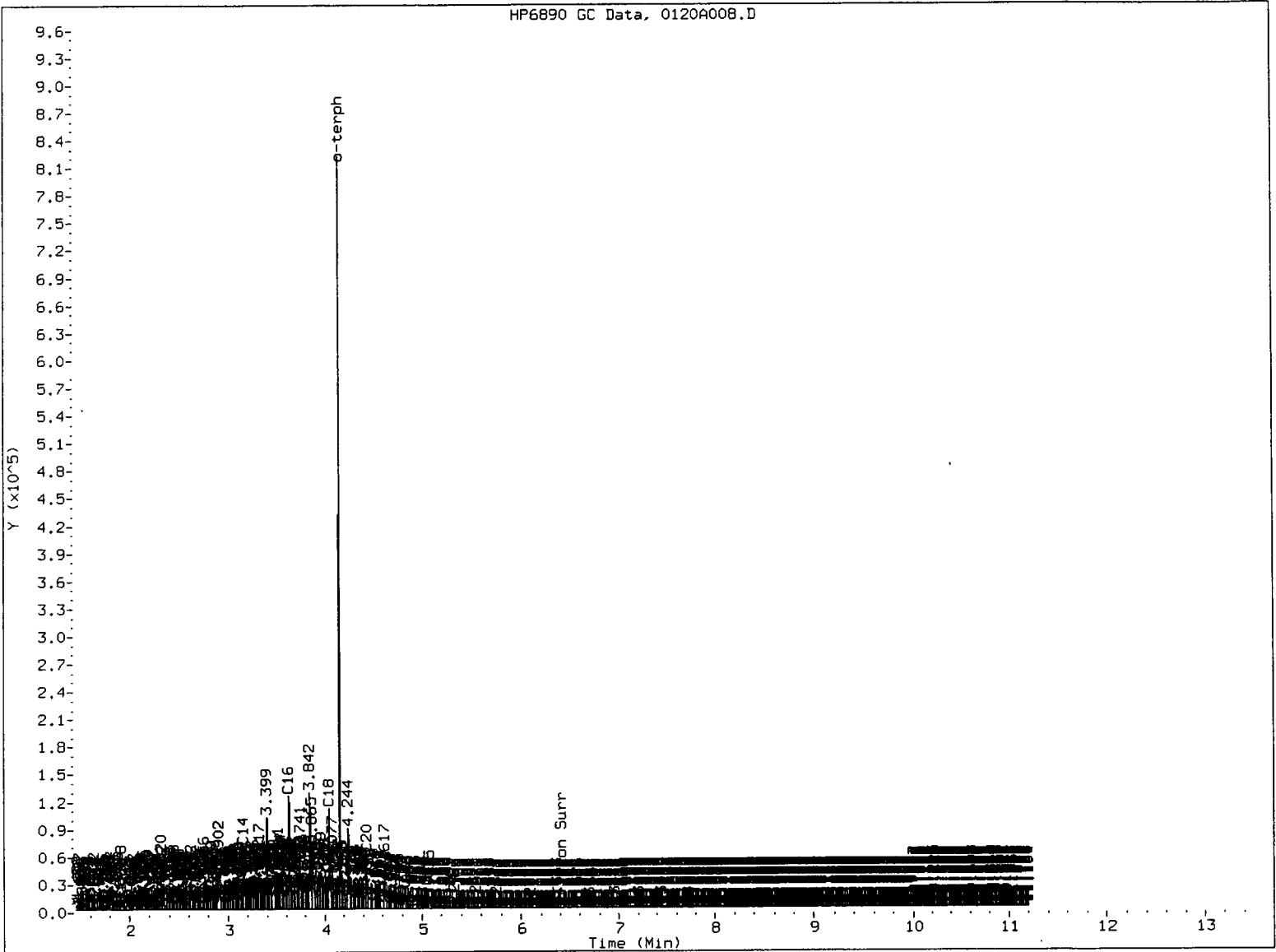
Column phase: RTX-1

Instrument: fid9.i
Operator: JR
Column diameter: 0.25

/chem2/fid9.i/20110120.b/01200008.D



HP6890 GC Data, 0120A008.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: *[Signature]*

Date: 1/31/16

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A009.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: DIESEL 250
 Client ID: DIESEL 250
 Injection: 20-JAN-2011 16:56
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.324 | 0.021 | 6031 | 7453 | GAS (Tol-C12) | 963284 | 46 |
| C8 | 1.507 | -0.012 | 7475 | 8561 | DIESEL (C12-C24) | 5612665 | 248 |
| C10 | 1.986 | -0.002 | 38817 | 27322 | M.OIL (C24-C38) | 62594 | 5 |
| C12 | 2.624 | 0.001 | 90323 | 57014 | AK-102 (C10-C25) | 6319024 | 248 M |
| C14 | 3.158 | 0.001 | 171050 | 104020 | AK-103 (C25-C36) | 36765 | 4 |
| C16 | 3.628 | 0.001 | 304099 | 171492 | | | |
| C18 | 4.050 | 0.001 | 266328 | 193663 | | | |
| C20 | 4.436 | 0.000 | 157838 | 100369 | | | |
| C22 | 4.827 | 0.000 | 53206 | 41402 | | | |
| C24 | 5.324 | -0.001 | 13583 | 13064 | | | |
| C25 | 5.547 | -0.001 | 5666 | 9897 | | | |
| C26 | 5.750 | 0.001 | 2020 | 3391 | | | |
| C28 | 6.103 | -0.001 | 182 | 194 | | | |
| C32 | 6.699 | 0.003 | 100 | 53 | JP-4 (Tol-C14) | 1958006 | 119 |
| C34 | 6.959 | 0.000 | 367 | 620 | BUNKERC (C10-C38) | 6363986 | 752 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.208 | 0.000 | 395 | 317 | | | |
| C38 | 7.449 | 0.000 | 650 | 230 | | | |
| C40 | 7.722 | -0.001 | 878 | 488 | | | |
| o-terph | 4.172 | 0.004 | 1648781 | 956101 | JET-A (C10-C18) | 4720353 | 342 |
| Triacon Surr | 6.414 | -0.008 | 263 | 238 | JP8 (Tol-C16) | 3414412 | 194 |

M Indicates manual integration within range.

Range Times: NW Diesel (2.623 - 5.324) AK102 (1.99 - 5.55) Jet A (1.99 - 4.05)
 NW M.Oil (5.32 - 7.45) AK103 (5.55 - 7.21) OR Diesel (1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 956101 | 44.6 | 99.2 |
| Triacontane | 238 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/v1200009.D

Date : 20-JAN-2011 16:56

Client ID: DIESEL 250

Sample Info: DIESEL 250

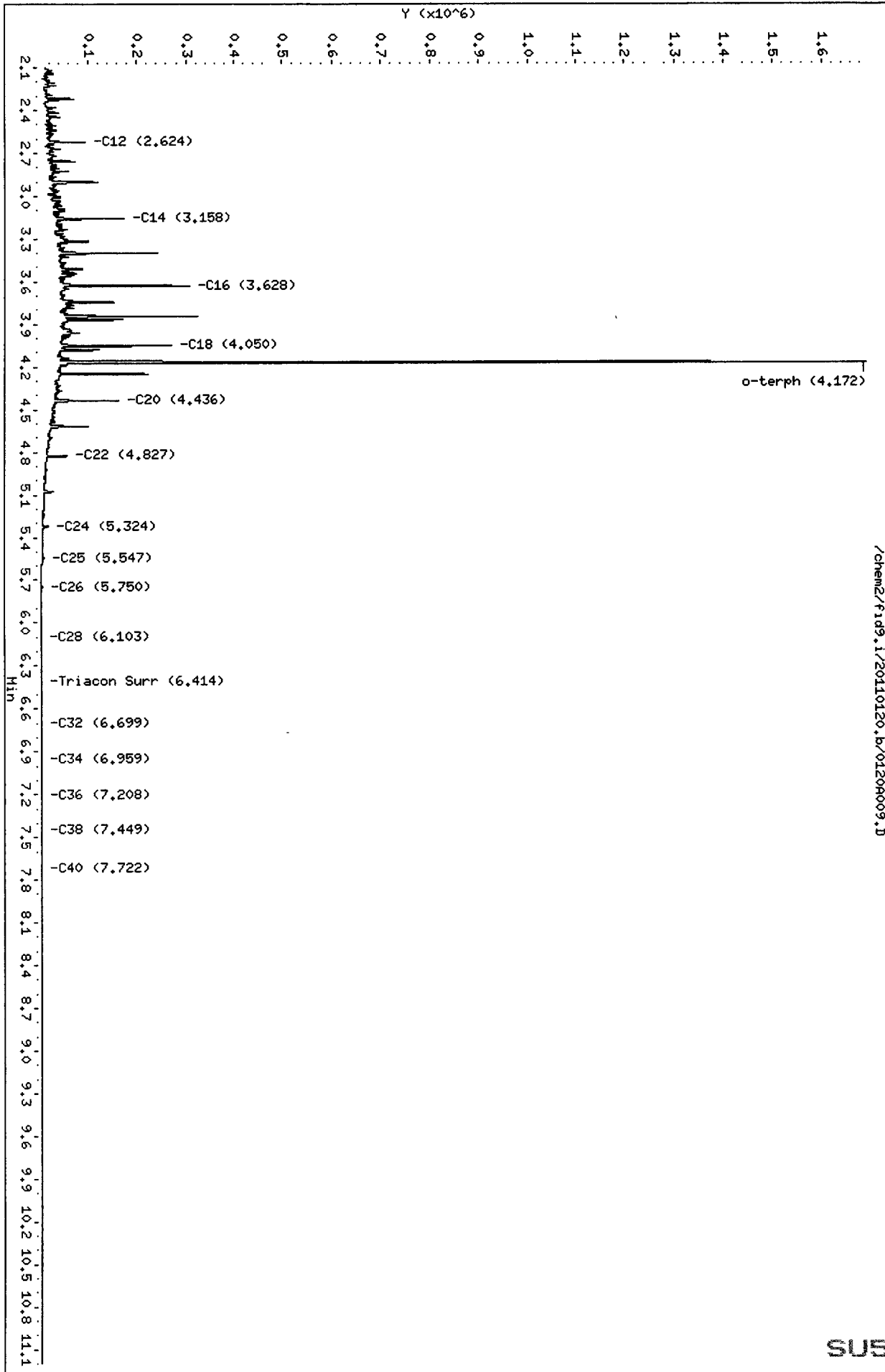
Column phase: RTX-1

Instrument: fid9.i

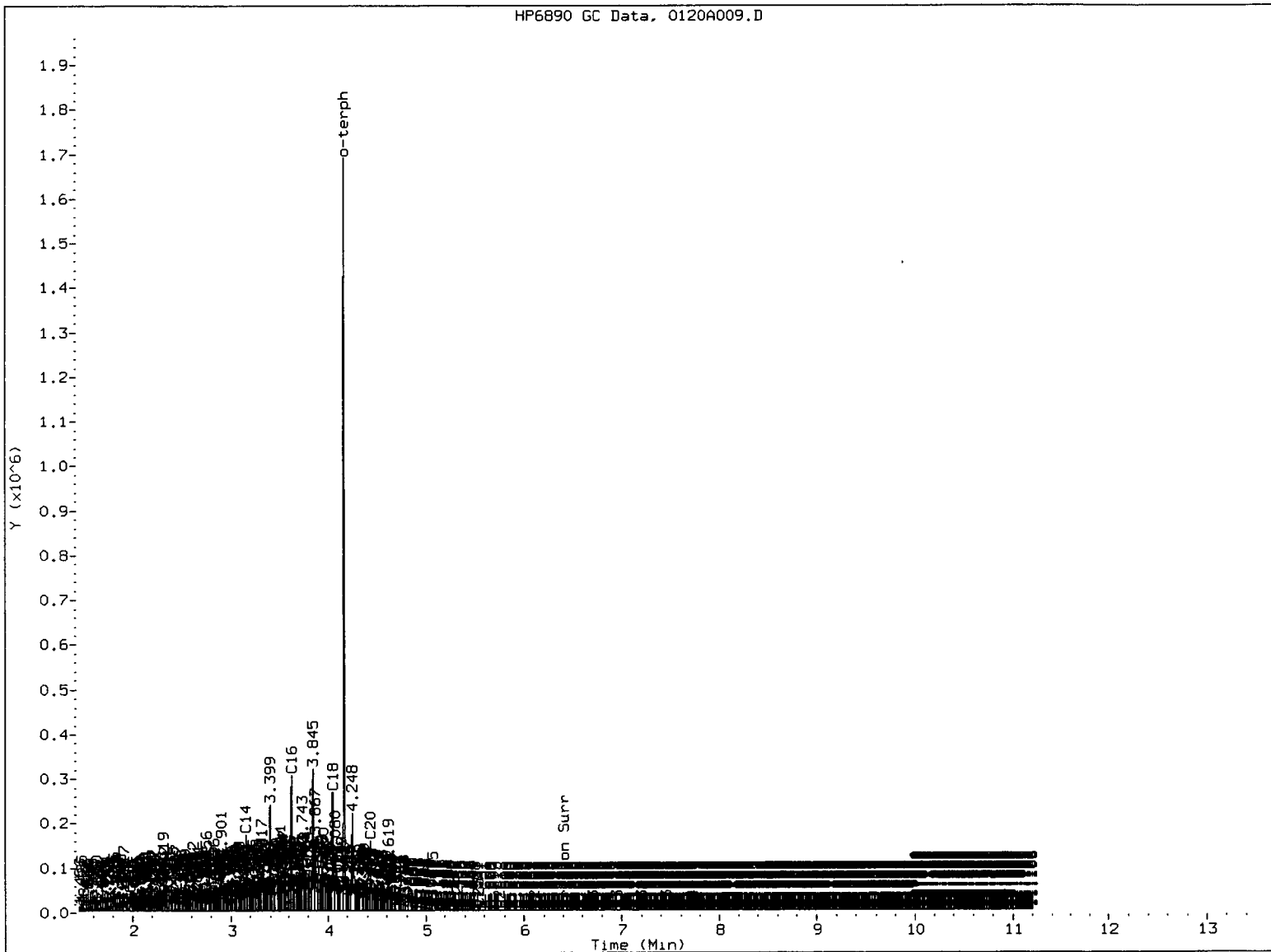
Operator: JR

Column diameter: 0.25

/chem2/fid9.i/20110120.b/v1200009.D



HP6890 GC Data, 0120A009.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: *[Signature]* Date: 4/31/16

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A010.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: DIESEL 500
 Client ID: DIESEL 500
 Injection: 20-JAN-2011 17:17
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|--------|
| Toluene | 1.398 | 0.095 | 17869 | 25462 | GAS (Tol-C12) | 1776175 | 85 |
| C8 | 1.514 | -0.005 | 10549 | 10477 | DIESEL (C12-C24) | 11068698 | 489 |
| C10 | 1.990 | 0.001 | 68837 | 52395 | M.OIL (C24-C38) | 109996 | 8 |
| C12 | 2.625 | 0.002 | 174291 | 112795 | AK-102 (C10-C25) | 12428725 | 487 M |
| C14 | 3.159 | 0.003 | 325720 | 204440 | AK-103 (C25-C36) | 67014 | 8 |
| C16 | 3.631 | 0.004 | 588845 | 333085 | | | |
| C18 | 4.054 | 0.004 | 491538 | 360935 | | | |
| C20 | 4.438 | 0.002 | 312537 | 204051 | | | |
| C22 | 4.829 | 0.001 | 108927 | 91605 | | | |
| C24 | 5.325 | 0.001 | 28104 | 25796 | | | |
| C25 | 5.549 | 0.001 | 12072 | 11710 | | | |
| C26 | 5.751 | 0.002 | 4559 | 6993 | | | |
| C28 | 6.106 | 0.002 | 441 | 521 | | | |
| C32 | 6.692 | -0.005 | 44 | 18 | JP-4 (Tol-C14) | 3717778 | 227 |
| C34 | 6.955 | -0.004 | 136 | 31 | BUNKERC (C10-C38) | 12502293 | 1478 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.213 | 0.004 | 308 | 87 | | | |
| C38 | 7.449 | 0.001 | 535 | 104 | | | |
| C40 | 7.727 | 0.004 | 758 | 345 | | | |
| o-terph | 4.180 | 0.011 | 2578275 | 1912252 | JET-A (C10-C18) | 9190576 | 665 |
| Triacon Surr | 6.419 | -0.003 | 302 | 246 | JP8 (Tol-C16) | 6564939 | 373 |

M Indicates manual integration within range.

Range Times: NW Diesel (2.623 - 5.324) AK102 (1.99 - 5.55) Jet A (1.99 - 4.05)
 NW M.Oil (5.32 - 7.45) AK103 (5.55 - 7.21) OR Diesel (1.99 - 6.10)

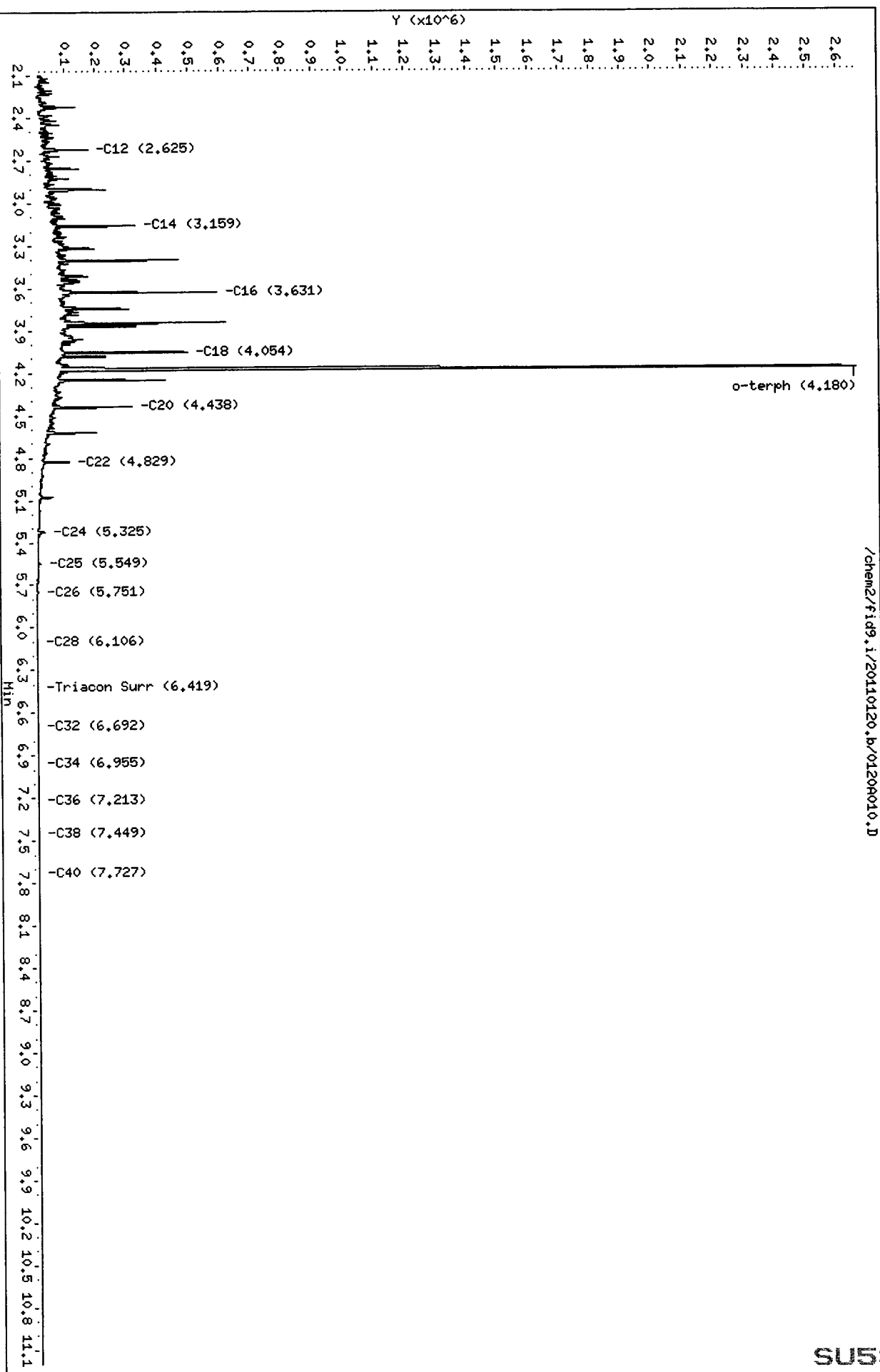
| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1912252 | 89.3 | 198.4 |
| Triacontane | 246 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

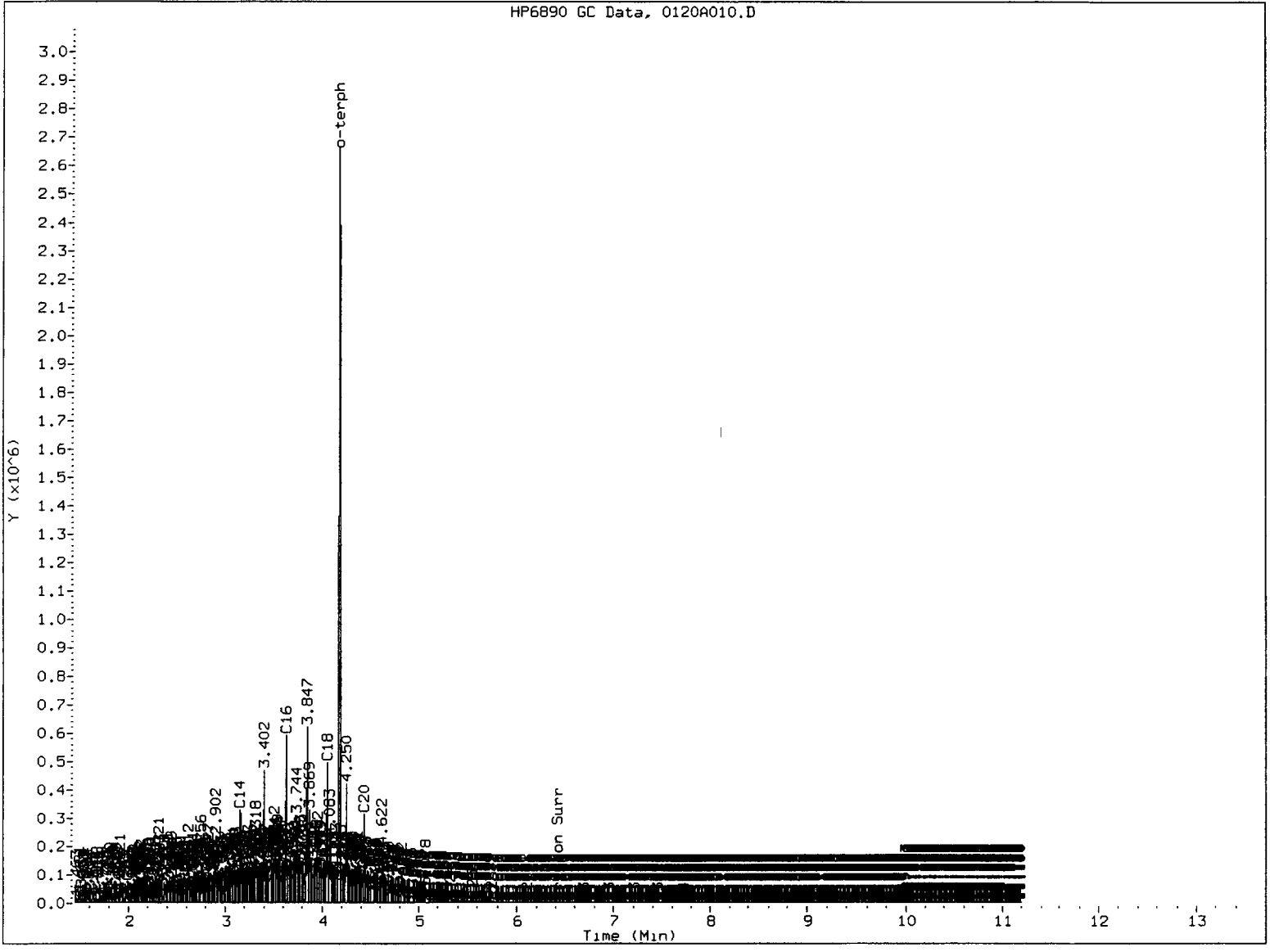
Data File: /chem2/fid9.i/20110120.b/0120R010.D
Date : 20-JAN-2011 17:17
Client ID: DIESEL 500
Sample Info: DIESEL 500

Column phase: RTX-1

Instrument: fid9.i
Operator: JR
Column diameter: 0.25



/chem2/fid9.i/20110120.b/0120R010.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: *[Signature]*

Date: *1/31/11*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A011.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: DIESEL 1000
Client ID: DIESEL 1000
Injection: 20-JAN-2011 17:39
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|--------|
| Toluene | 1.339 | 0.037 | 8762 | 8760 | GAS (Tol-C12) | 3594386 | 171 |
| C8 | 1.518 | -0.001 | 27057 | 15884 | DIESEL (C12-C24) | 23038155 | 1017 |
| C10 | 1.990 | 0.002 | 167929 | 83497 | M.OIL (C24-C38) | 219685 | 17 |
| C12 | 2.624 | 0.002 | 354185 | 174409 | AK-102 (C10-C25) | 25837848 | 1012 M |
| C14 | 3.160 | 0.003 | 609754 | 427306 | AK-103 (C25-C36) | 133603 | 16 |
| C16 | 3.633 | 0.007 | 1068780 | 958419 | | | |
| C18 | 4.058 | 0.009 | 864857 | 707464 | | | |
| C20 | 4.441 | 0.006 | 605141 | 435620 | | | |
| C22 | 4.832 | 0.005 | 224884 | 186854 | | | |
| C24 | 5.325 | 0.001 | 58350 | 55840 | | | |
| C25 | 5.547 | 0.000 | 26518 | 36505 | | | |
| C26 | 5.750 | 0.001 | 10341 | 13202 | | | |
| C28 | 6.105 | 0.002 | 1103 | 1230 | | | |
| C32 | 6.695 | -0.002 | 28 | 7 | JP-4 (Tol-C14) | 7593788 | 463 |
| C34 | 6.964 | 0.006 | 325 | 397 | BUNKERC (C10-C38) | 25977309 | 3070 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.209 | 0.001 | 234 | 71 | | | |
| C38 | 7.450 | 0.001 | 456 | 432 | | | |
| C40 | 7.723 | 0.000 | 644 | 165 | | | |
| o-terph | 4.189 | 0.020 | 3635682 | 3957673 | JET-A (C10-C18) | 19204582 | 1390 |
| Triacon Surr | 6.417 | -0.005 | 287 | 303 | JP8 (Tol-C16) | 13546339 | 770 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 3957673 | 184.8 | 410.6 |
| Triacontane | 303 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/0120A011.D

Date: 20-JAN-2011 17:39

Client ID: DIESEL 1000

Sample Info: DIESEL 1000

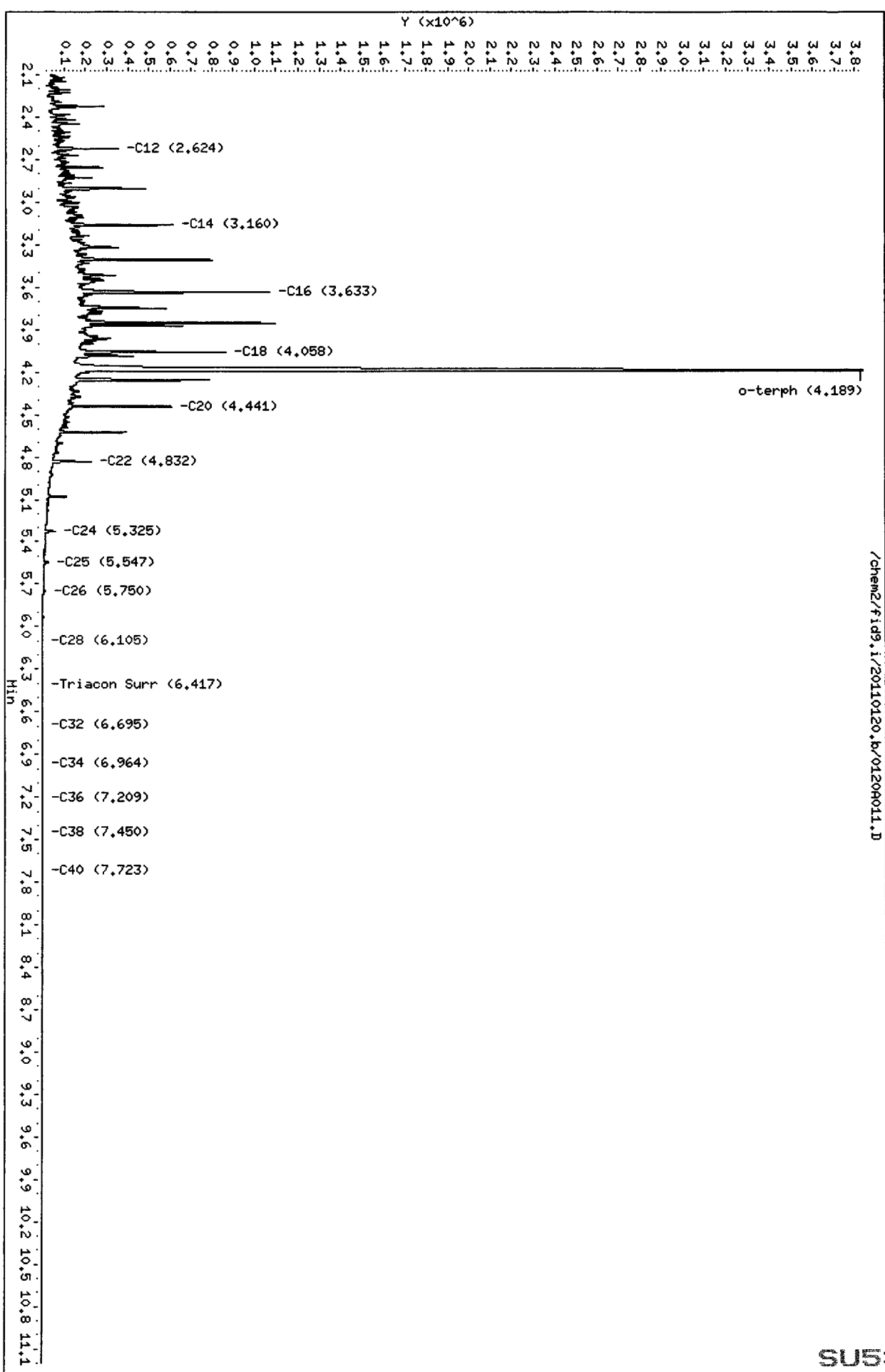
Column phase: RTX-1

Instrument: fid9.i

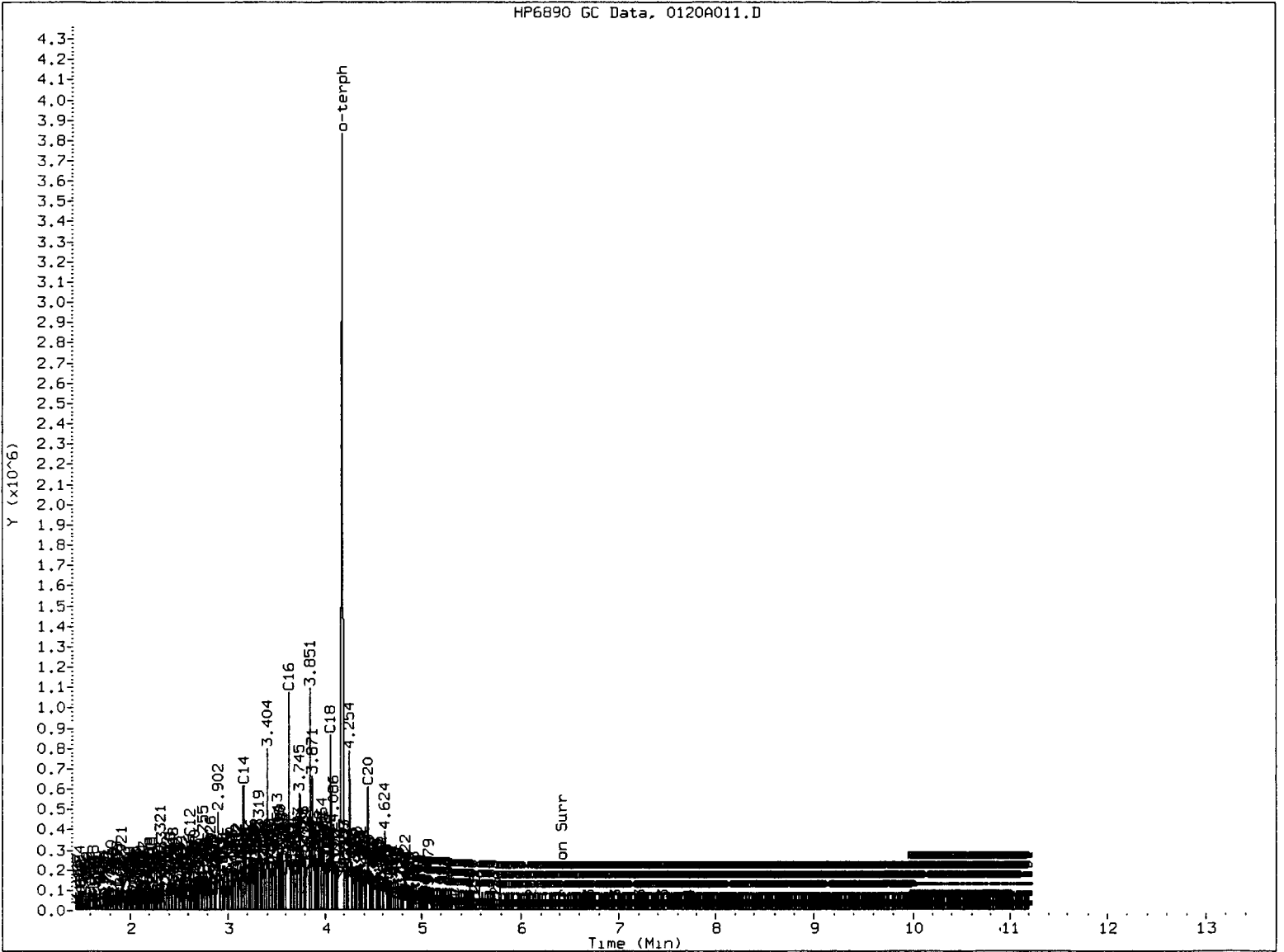
Operator: JR

Column diameter: 0.25

/chem2/fid9.i/20110120.b/0120A011.D



HP6890 GC Data, 0120A011.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *me*

Date: *1/31/14*

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A014.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: DIESEL 2500
 Client ID: DIESEL 2500
 Injection: 20-JAN-2011 18:43
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|--------|
| Toluene | 1.330 | 0.028 | 48886 | 26518 | GAS (Tol-C12) | 8667864 | 413 |
| C8 | 1.508 | -0.011 | 190423 | 87408 | DIESEL (C12-C24) | 54366154 | 2400 |
| C10 | 1.987 | -0.001 | 102013 | 58742 | M.OIL (C24-C38) | 543839 | 41 |
| C12 | 2.619 | -0.004 | 305381 | 143525 | AK-102 (C10-C25) | 61175498 | 2397 M |
| C14 | 3.166 | 0.009 | 1051930 | 1383534 | AK-103 (C25-C36) | 356328 | 42 |
| C16 | 3.629 | 0.003 | 853504 | 782975 | | | |
| C18 | 4.072 | 0.023 | 1511636 | 2155998 | | | |
| C20 | 4.427 | -0.008 | 328601 | 332087 | | | |
| C22 | 4.818 | -0.009 | 106423 | 27542 | | | |
| C24 | 5.327 | 0.003 | 145102 | 128963 | | | |
| C25 | 5.548 | 0.000 | 65057 | 80959 | | | |
| C26 | 5.749 | 0.000 | 26815 | 29609 | | | |
| C28 | 6.105 | 0.001 | 3174 | 3628 | | | |
| C32 | 6.702 | 0.006 | 80 | 45 | JP-4 (Tol-C14) | 18199514 | 1110 |
| C34 | 6.953 | -0.006 | 332 | 298 | BUNKERC (C10-C38) | 61535761 | 7273 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.210 | 0.001 | 164 | 108 | | | |
| C38 | 7.451 | 0.003 | 415 | 337 | | | |
| C40 | 7.721 | -0.002 | 462 | 387 | | | |
| o-terph | 4.211 | 0.043 | 5440645 | 9564784 | JET-A (C10-C18) | 45697491 | 3307 |
| Triacon Surr | 6.414 | -0.008 | 657 | 826 | JP8 (Tol-C16) | 32362224 | 1839 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

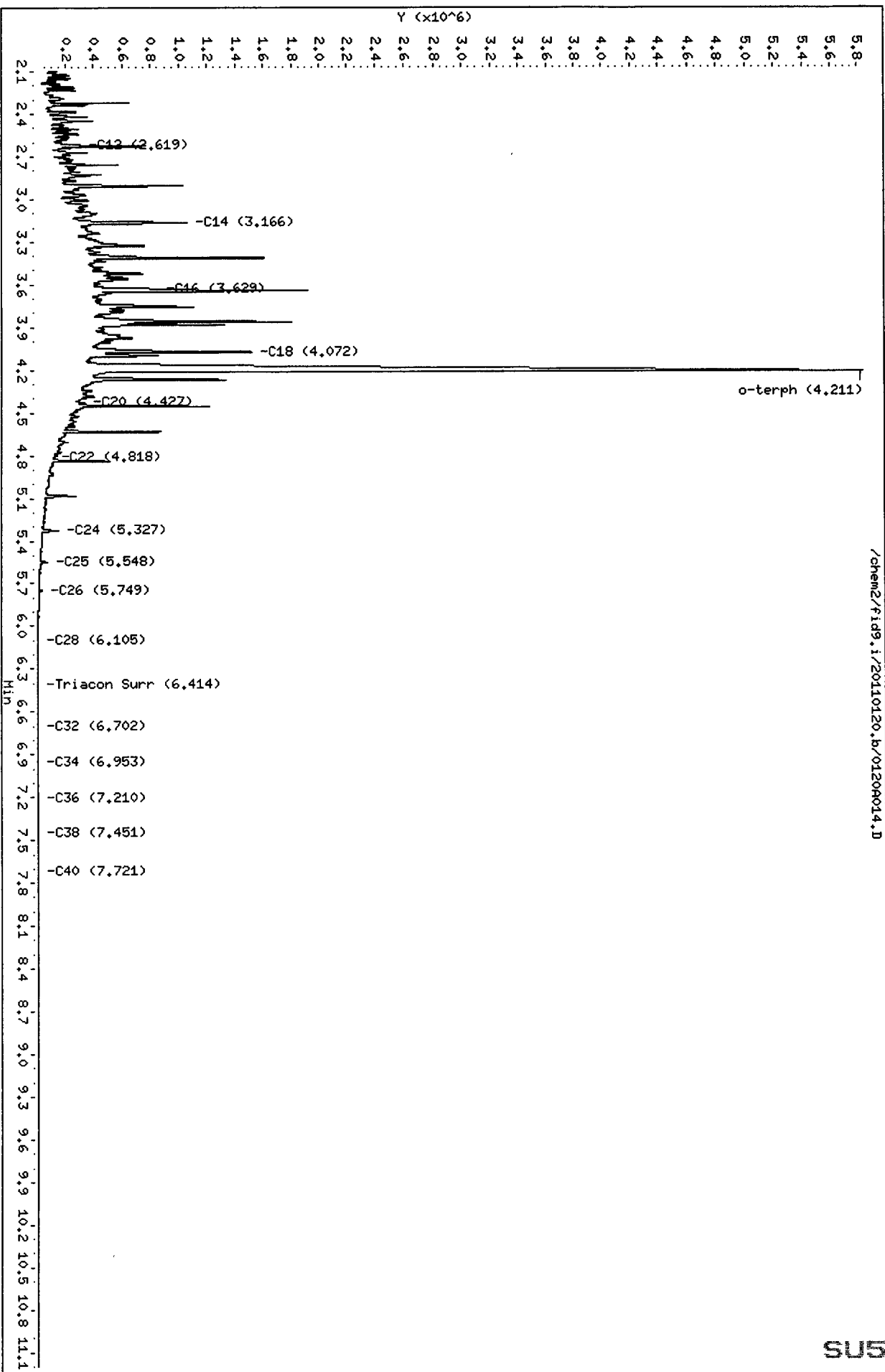
| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 9564784 | 446.6 | 992.4 |
| Triacontane | 826 | 0.0 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/0120A014.D
Date: 20-JAN-2011 18:43
Client ID: DIESEL 2500
Sample Info: DIESEL 2500

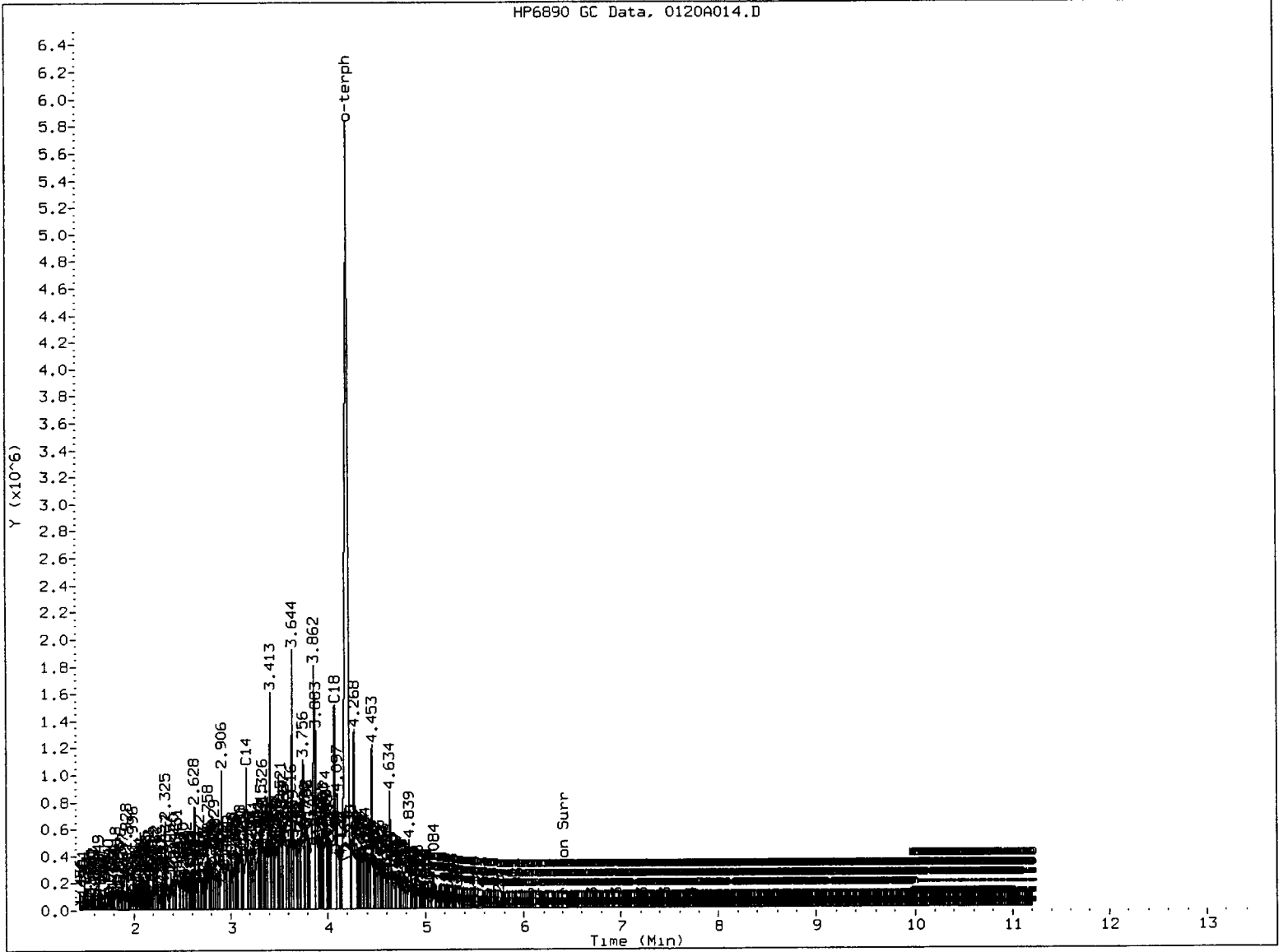
Column phase: RTX-1

Instrument: fid9.i
Operator: JR
Column diameter: 0.25



/chem2/fid9.i/20110120.b/0120A014.D

HP6890 GC Data, 0120A014.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst:

Date:

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A013.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: DIESEL ICV
 Client ID:
 Injection: 20-JAN-2011 18:22
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|----------------|
| Toluene | 1.327 | 0.025 | 8596 | 8590 | GAS (Tol-C12) | 2594437 | 123 |
| C8 | 1.523 | 0.004 | 6840 | 3036 | DIESEL (C12-C24) | 4085957 | 180 <i>72%</i> |
| C10 | 1.988 | 0.000 | 72486 | 51468 | M.OIL (C24-C38) | 110276 | 8 |
| C12 | 2.624 | 0.002 | 85424 | 49972 | AK-102 (C10-C25) | 5879609 | 230 M |
| C14 | 3.160 | 0.003 | 152285 | 89305 | AK-103 (C25-C36) | 80325 | 9 <i>100</i> |
| C16 | 3.629 | 0.002 | 166029 | 96649 | | | |
| C18 | 4.050 | 0.001 | 135860 | 89403 | | | |
| C20 | 4.437 | 0.001 | 78367 | 50620 | | | |
| C22 | 4.829 | 0.002 | 30349 | 28725 | | | |
| C24 | 5.326 | 0.002 | 12083 | 12408 | | | |
| C25 | 5.548 | 0.001 | 7380 | 9404 | | | |
| C26 | 5.751 | 0.002 | 4267 | 5788 | | | |
| C28 | 6.106 | 0.003 | 995 | 1156 | | | |
| C32 | 6.695 | -0.001 | 53 | 37 | JP-4 (Tol-C14) | 3670118 | 224 |
| C34 | 6.957 | -0.002 | 297 | 405 | BUNKERC (C10-C38) | 5966862 | 705 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.211 | 0.003 | 316 | 158 | | | |
| C38 | 7.449 | 0.001 | 554 | 552 | | | |
| C40 | 7.724 | 0.001 | 729 | 493 | | | |
| o-terph | 4.175 | 0.006 | 2105422 | 1323882 | JET-A (C10-C18) | 4718740 | 341 |
| Triacon Surr | 6.415 | -0.007 | 636 | 658 | JP8 (Tol-C16) | 4675611 | 266 |

M Indicates manual integration within range.

Range Times: NW Diesel (2.623 - 5.324) AK102 (1.99 - 5.55) Jet A (1.99 - 4.05)
 NW M.Oil (5.32 - 7.45) AK103 (5.55 - 7.21) OR Diesel (1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1323882 | 61.8 | 137.4 |
| Triacantane | 658 | 0.0 | 0.1 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01200013.D
Date: 20-JAN-2011 18:22

Client ID:

Sample Info: DIESEL ICV

Column phase: RTX-1

Instrument: fid9.i

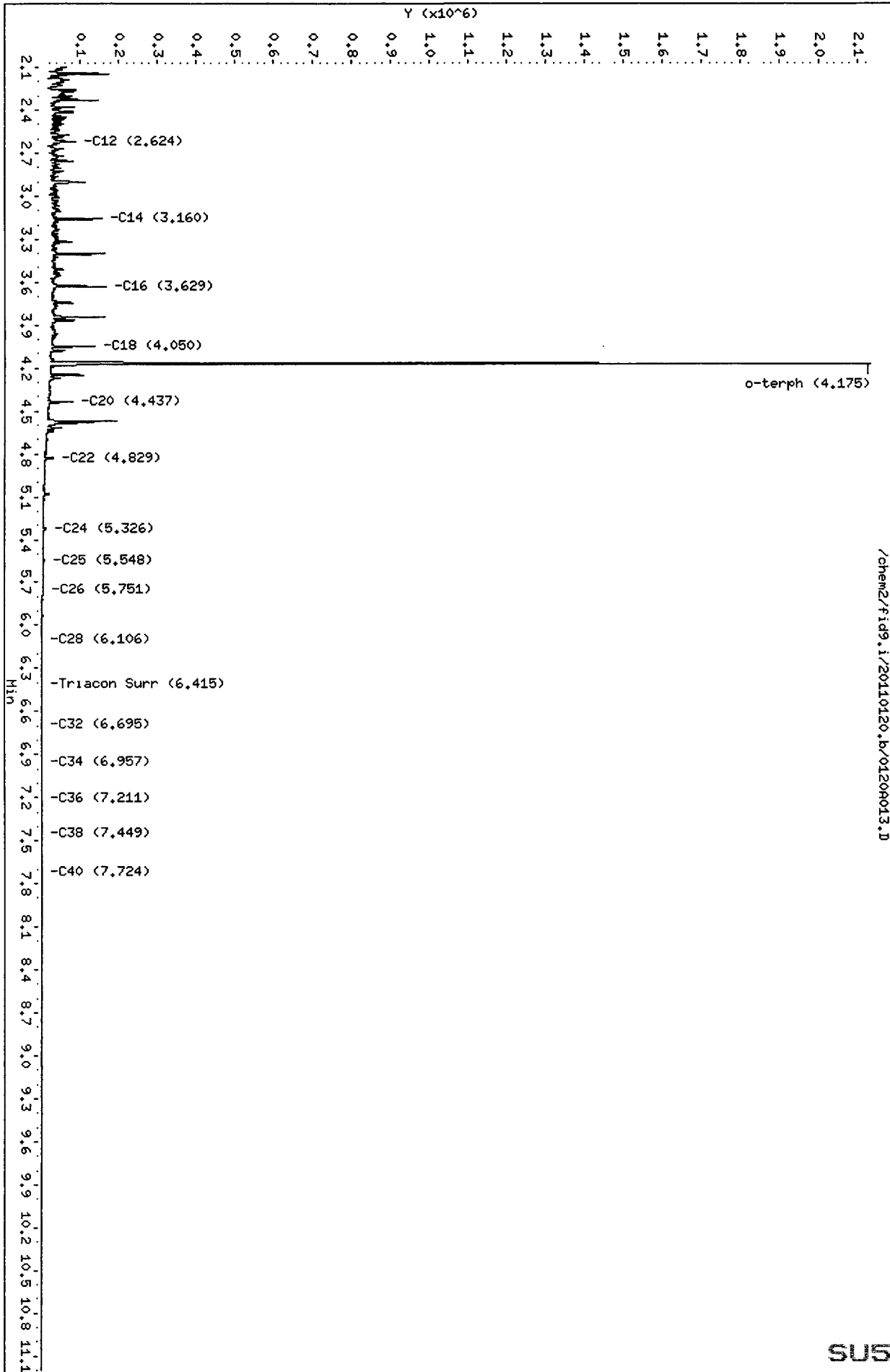
Operator: JR

Column diameter: 0.25

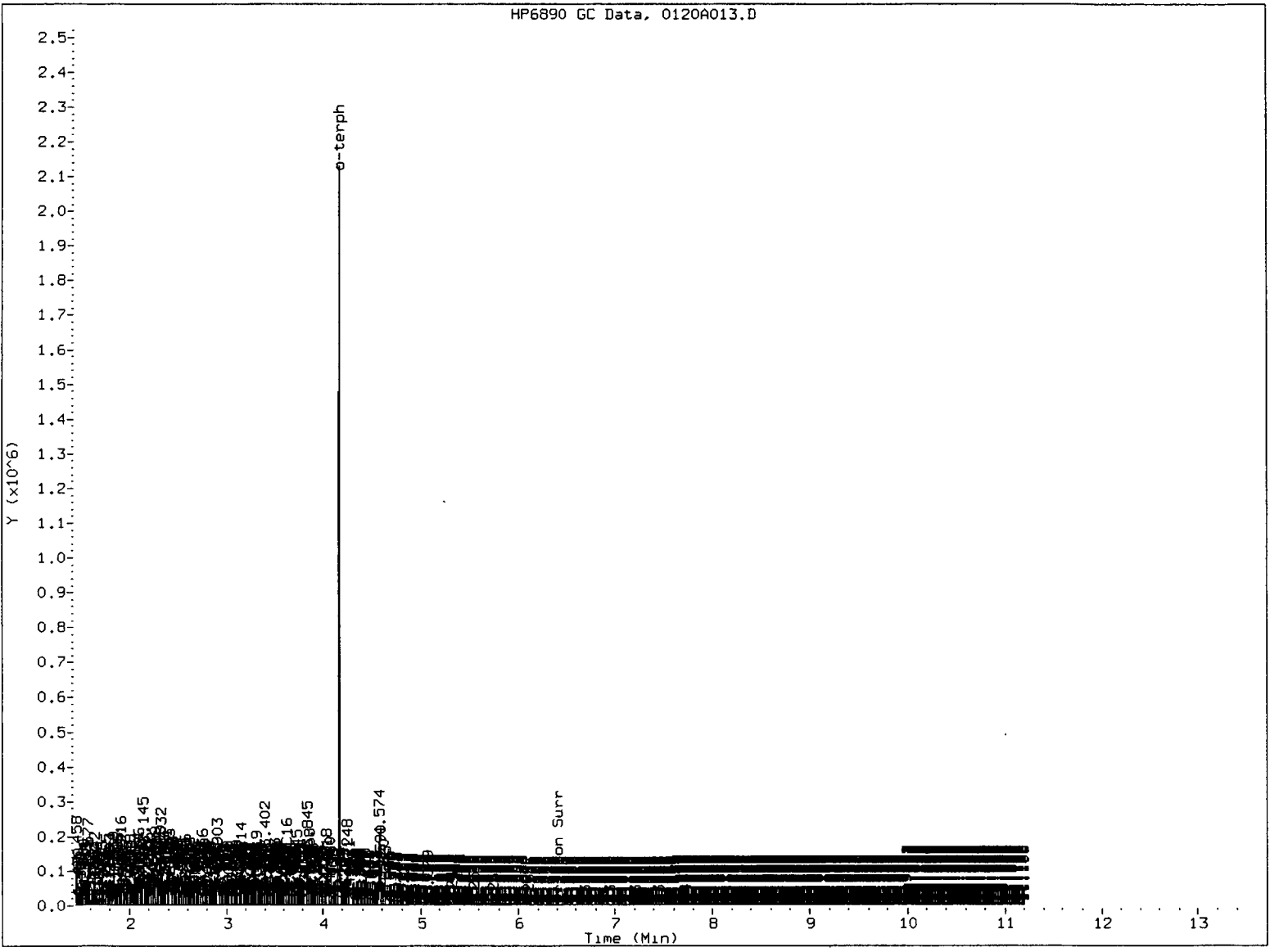
Page 1

3482

SU53 : 00961



HP6890 GC Data, 0120A013.D



MANUAL INTEGRATION

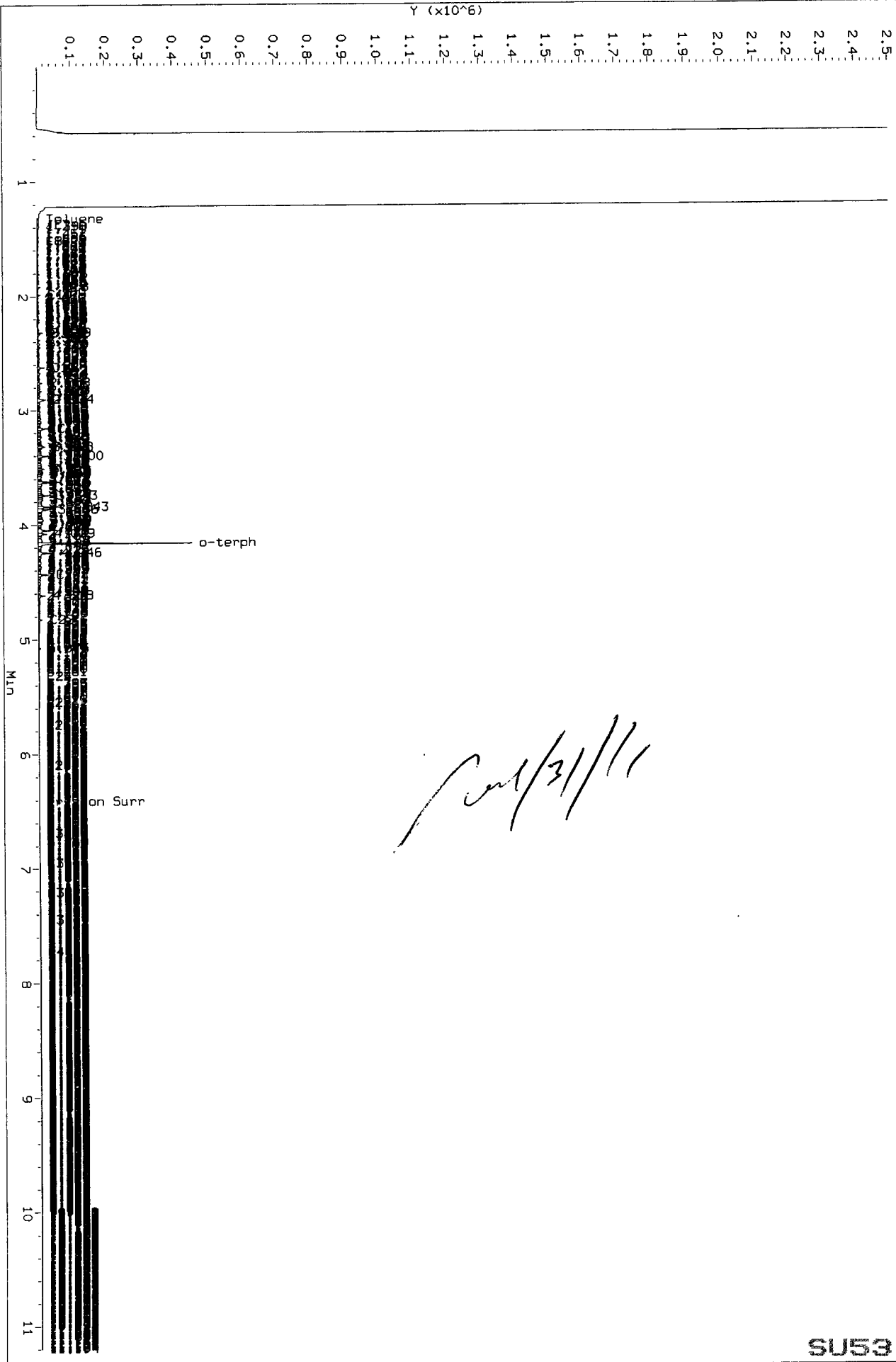
- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: AK

Date: 4/31/11

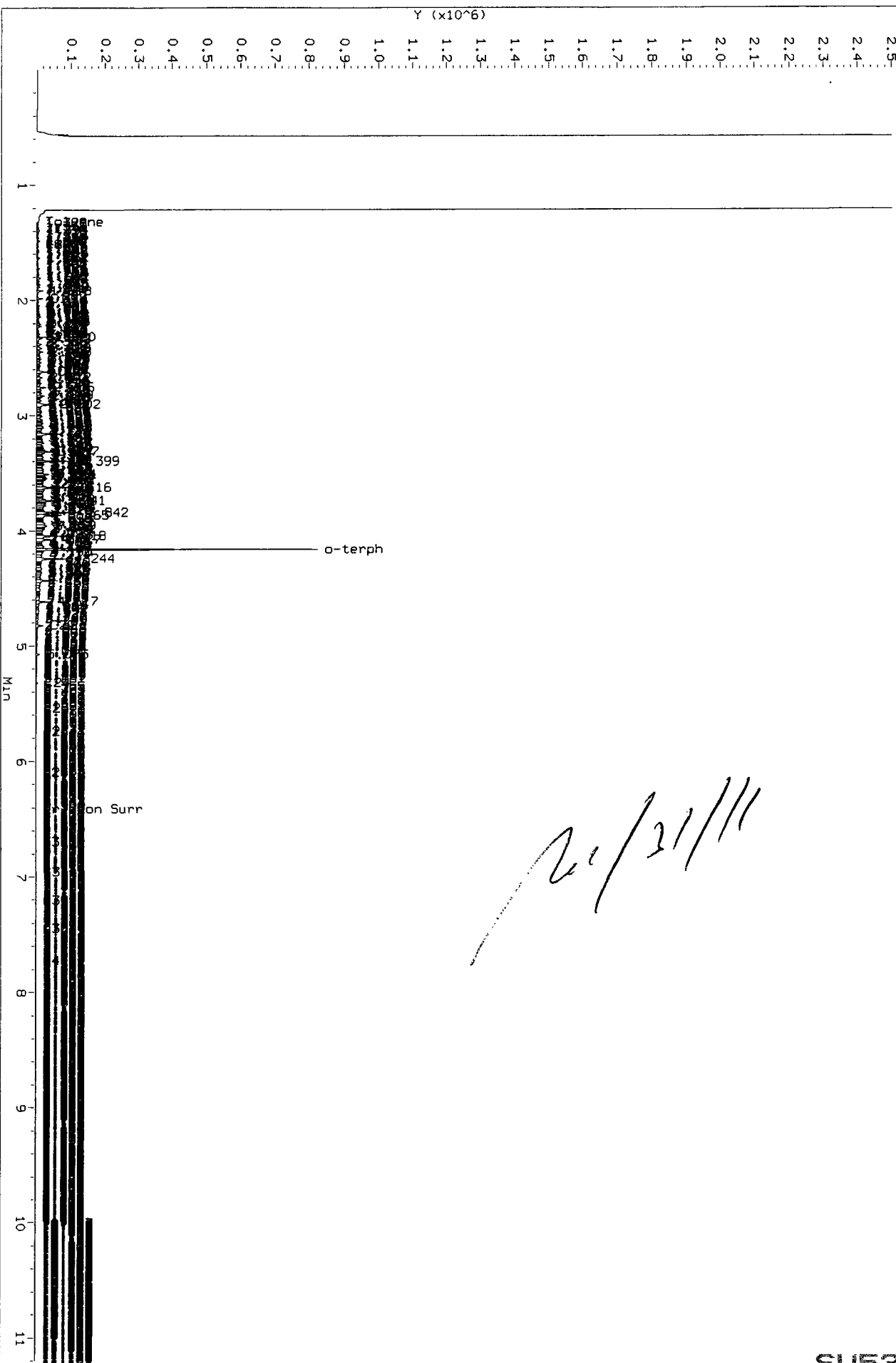
Data File: /chem2/fid9_1/20110120_b/01206007.D
Injection Date: 20-JAN-2011 16:13
Instrument: FID9.1
Client Sample ID: DIESEL 50

HP6890 GC Data, 01206007.D: 0.000 to 11.200 Min



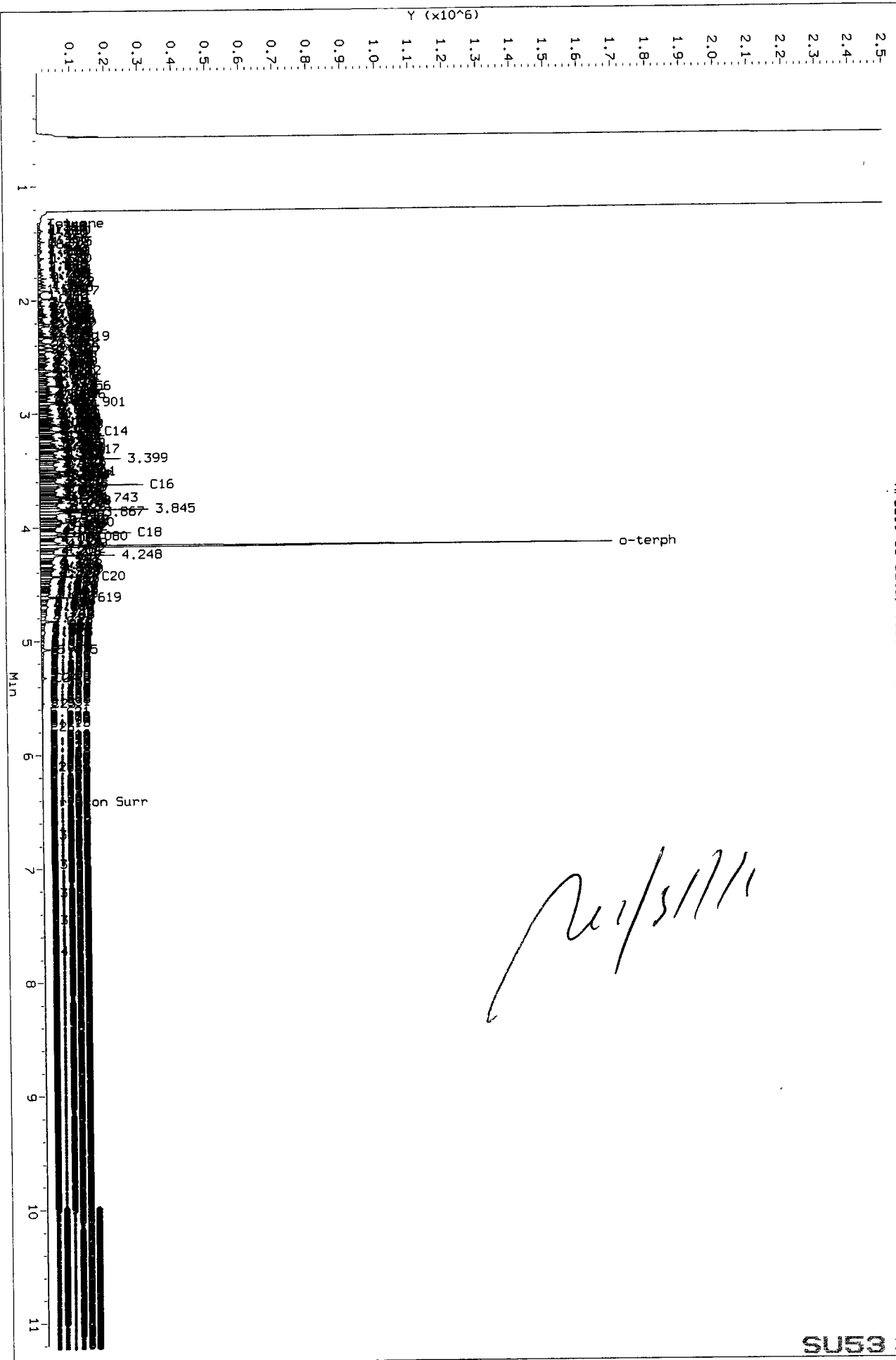
Data File: /chem2/fid9_1/20110120_b/0120A008.D
Injection Date: 20-JAN-2011 16:34
Instrument: f169.1
Client Sample ID: DIESEL 100

HP6890 GC Data, 0120A008.D: 0.000 to 11.200 Min

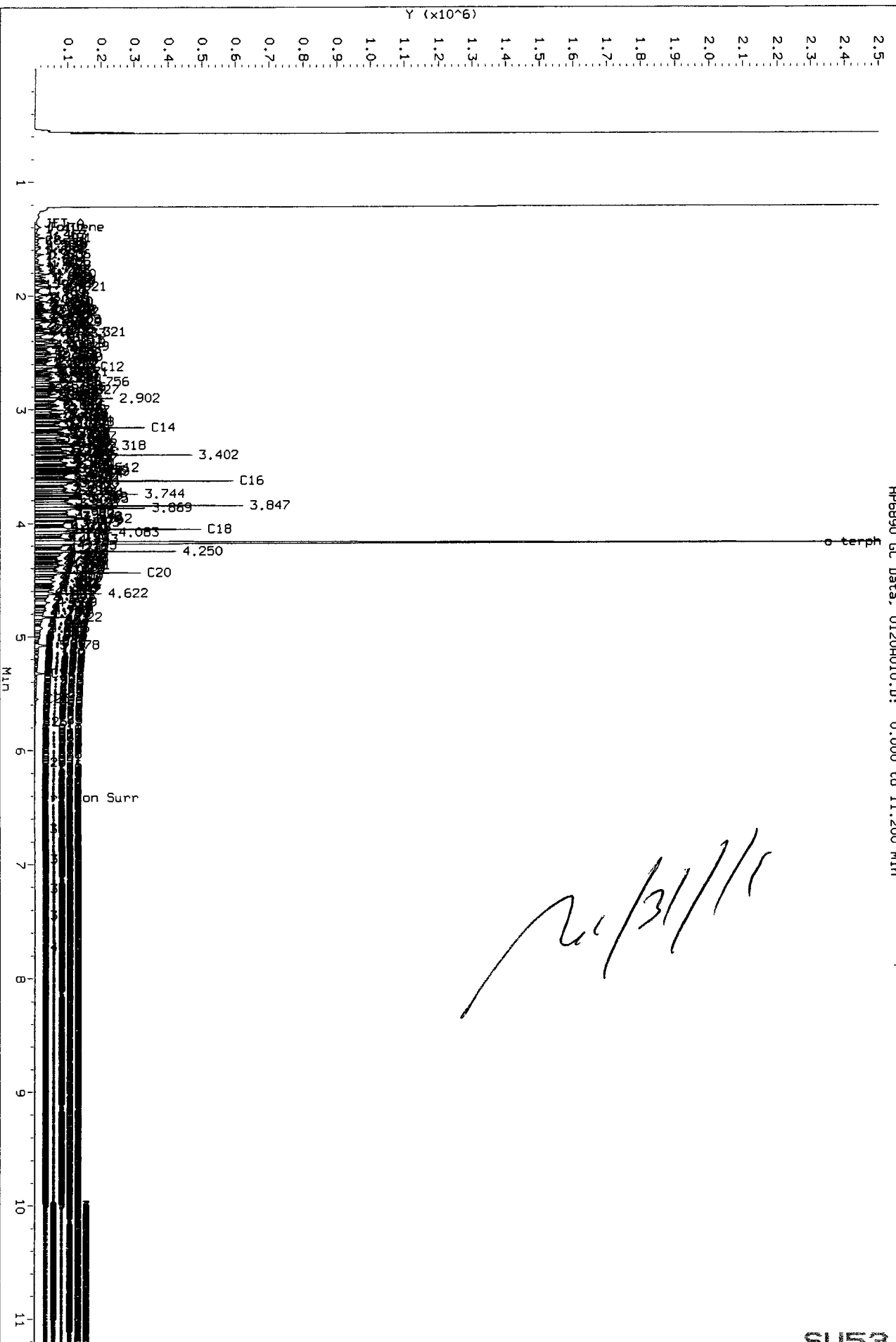


Data File: /chem2/fid9.1/20110120.b/0120A009.D
Injection Date: 20-JAN-2011 16:56
Instrument: fid9.1
Client Sample ID: DIESEL 250

HP6890 GC Data, 0120A009.D: 0.000 to 11.200 Min



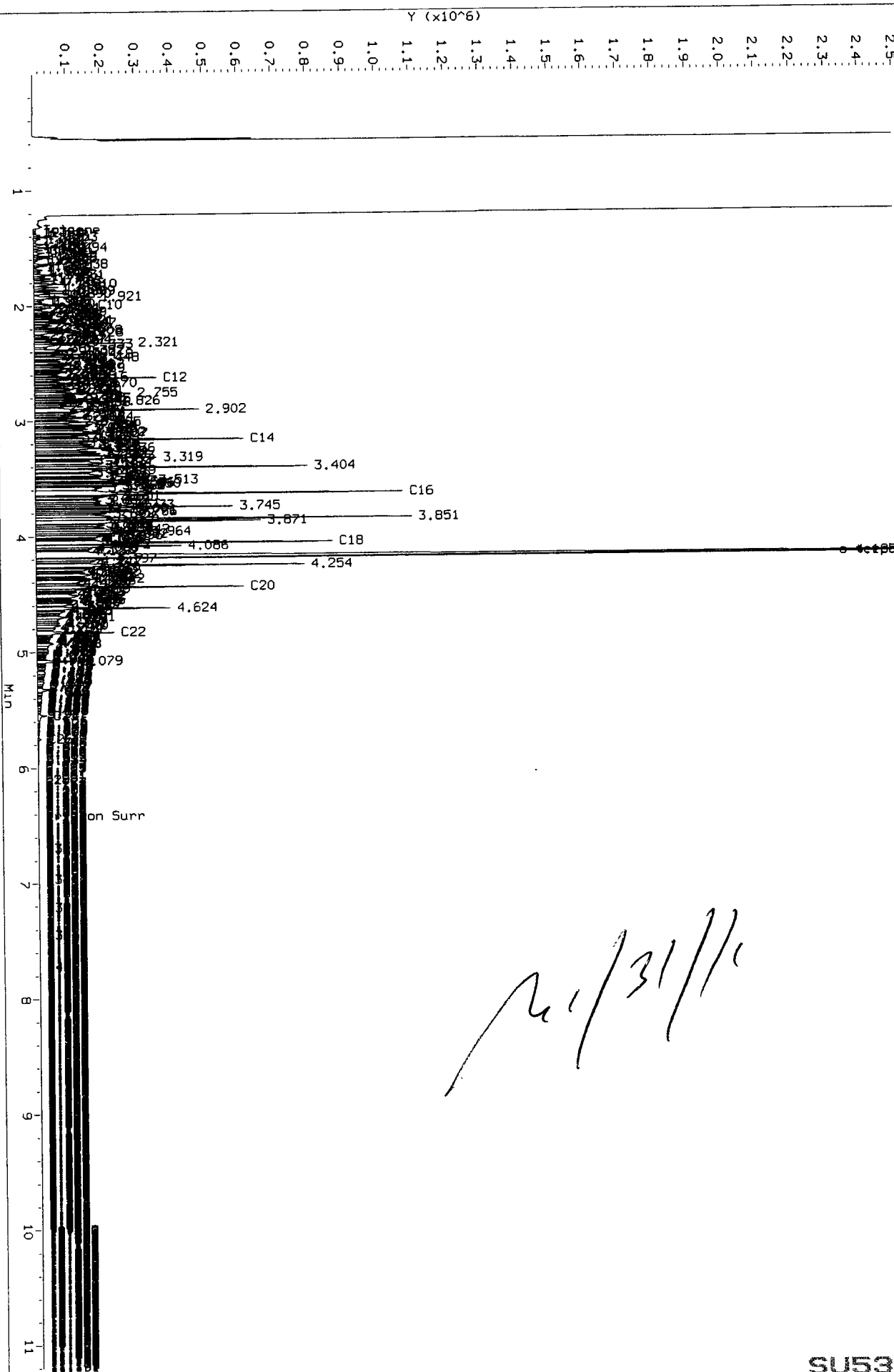
Data File: /chem2/fid9.1/20110120.b/0120A010.D
Injection Date: 20-JAN-2011 17:17
Instrument: fid9.1
Client Sample ID: DIESEL 500



HP6890 GC Data, 0120A010.D: 0.000 to 11.200 Min

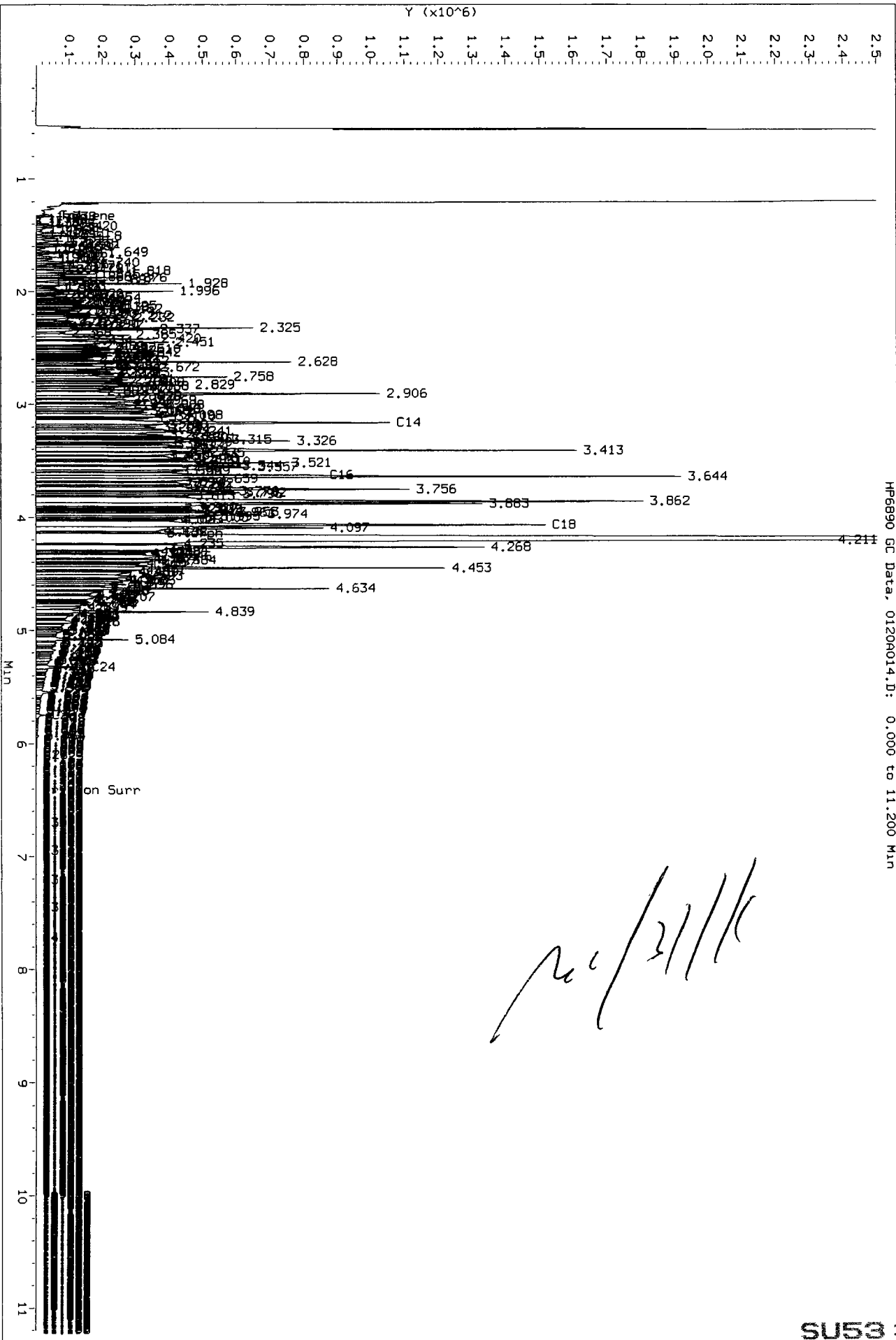
Data File: /chem2/f1d9_1/20110120.b/0120A011.D
Injection Date: 20-JAN-2011 17:39
Instrument: f1d9.1
Client Sample ID: DIESEL 1000

HP6890 GC Data, 0120A011.D: 0.000 to 11.200 Min



Handwritten signature: m/31/11

Data File: /chem2/fid9_1/20110120.b/0120R014.D
Injection Date: 20-JAN-2011 18:43
Instrument: fid9.1
Client Sample ID: DIESEL 2500



HP6890 GC Data, 0120R014.D: 0.000 to 11.200 Min



GC Analyst Notes / Corrective Action Log

ARI Project ID: M.Oil CURVE Client ID: ARI

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): 30 wt. M.Oil, n-Triacontane

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/20/11 Analysis Start: 1/20/11

| | | | |
|-----------------------------------|----------------------|----------------------------------|----------------------|
| Endrin/DDT Breakdown <15%? | YES / NO / <u>NA</u> | Method Blank In Control? | YES / NO <u>NA</u> |
| ICal Meets RF & %RSD Criteria? | <u>YES</u> / NO | LCS/LCSD Recovery In Control? | YES / NO |
| CCal Meets RF & %RSD Criteria? | YES / NO <u>NA</u> | Surrogate Recovery In Control? | YES / NO |
| Manual Integrations for ICal? | <u>YES</u> / NO | Manual Integrations for Samples? | <u>YES</u> / NO |
| Internal Standard Meets Criteria? | YES / NO / <u>NA</u> | Special Analysis Criteria Met? | YES / NO / <u>NA</u> |

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: MA Date: 1/31/11

Reviewer: VBS Date: 2.1.11

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 1/20/11 Analysis: NWTPHD Analyst: ms
 GC Program: TPH Column No: 977444 Column Type: VTX-1
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 1/20/11

| IS/SS | Ical/Ccal | LCS/ICV |
|-------|---------------|---------|
| | <u>1786-1</u> | |
| | <u>1787-2</u> | |
| | <u>1788-3</u> | |
| | <u>1789-2</u> | |

| Injct | Date/Time | Filename | DF | LabID |
|-------|-------------------|------------|----|-------------|
| 1 | 20-JAN-2011 12:42 | 0120A001.D | 1 | RINSE |
| 2 | 20-JAN-2011 13:03 | 0120A002.D | 1 | RINSE |
| 3 | 20-JAN-2011 13:24 | 0120A003.D | 1 | RINSE |
| 4 | 20-JAN-2011 15:09 | 0120A004.D | 1 | RINSE |
| 5 | 20-JAN-2011 15:30 | 0120A005.D | 1 | RT |
| 6 | 20-JAN-2011 15:52 | 0120A006.D | 1 | IB |
| 7 | 20-JAN-2011 16:13 | 0120A007.D | 1 | DIESEL 50 |
| 8 | 20-JAN-2011 16:34 | 0120A008.D | 1 | DIESEL 100 |
| 9 | 20-JAN-2011 16:56 | 0120A009.D | 1 | DIESEL 250 |
| 10 | 20-JAN-2011 17:17 | 0120A010.D | 1 | DIESEL 500 |
| 11 | 20-JAN-2011 17:39 | 0120A011.D | 1 | DIESEL 1000 |
| 12 | 20-JAN-2011 18:00 | 0120A012.D | 1 | Blank |
| 13 | 20-JAN-2011 18:22 | 0120A013.D | 1 | DIESEL ICV |
| 14 | 20-JAN-2011 18:43 | 0120A014.D | 1 | DIESEL 2500 |
| 15 | 20-JAN-2011 19:04 | 0120A015.D | 1 | MOIL 100 |
| 16 | 20-JAN-2011 19:26 | 0120A016.D | 1 | MOIL 250 |
| 17 | 20-JAN-2011 19:47 | 0120A017.D | 1 | MOIL 500 |
| 18 | 20-JAN-2011 20:08 | 0120A018.D | 1 | MOIL 1000 |
| 19 | 20-JAN-2011 20:30 | 0120A019.D | 1 | MOIL 2500 |
| 20 | 20-JAN-2011 20:51 | 0120A020.D | 1 | MOIL 5000 |
| 21 | 20-JAN-2011 21:12 | 0120A021.D | 1 | MOIL ICV |
| 22 | 20-JAN-2011 21:34 | 0120A022.D | 1 | DIESEL#1 |
| 23 | 20-JAN-2011 21:55 | 0120A023.D | 1 | MOIL#1 |
| 24 | 20-JAN-2011 22:16 | 0120A024.D | 1 | SE57MBW1 |
| 25 | 20-JAN-2011 22:38 | 0120A025.D | 1 | SE57LCSW1 |
| 26 | 20-JAN-2011 22:59 | 0120A026.D | 1 | SE57LCSDW1 |
| 27 | 20-JAN-2011 23:21 | 0120A027.D | 1 | SE57QLS |
| 28 | 20-JAN-2011 23:42 | 0120A028.D | 1 | SE57A |
| 29 | 21-JAN-2011 00:03 | 0120A029.D | 1 | SF16MBS1 |
| 30 | 21-JAN-2011 00:25 | 0120A030.D | 1 | SF16LCS1 |
| 31 | 21-JAN-2011 00:46 | 0120A031.D | 1 | SF16LCS1 |
| 32 | 21-JAN-2011 01:08 | 0120A032.D | 1 | SF16QLS |
| 33 | 21-JAN-2011 01:29 | 0120A033.D | 10 | SF16A |
| 34 | 21-JAN-2011 01:50 | 0120A034.D | 5 | SF16B |
| 35 | 21-JAN-2011 02:12 | 0120A035.D | 1 | DIESEL#2 |
| 36 | 21-JAN-2011 02:33 | 0120A036.D | 1 | MOIL#2 |

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[Signature]

[Signature] 1/24/11

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20110120.b

ARI Job No.: MOIL Method: ftphfid9a.m Instrument: fid9.i Date: 20-JAN-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

1904 0120A015.D MOIL 100 MOIL 100 1 Triacon Surr,

1926 0120A016.D MOIL 250 MOIL 250 1 Triacon Surr,

1947 0120A017.D MOIL 500 MOIL 500 1 Triacon Surr,

2008 0120A018.D MOIL 1000 MOIL 1000 1 Triacon Surr,

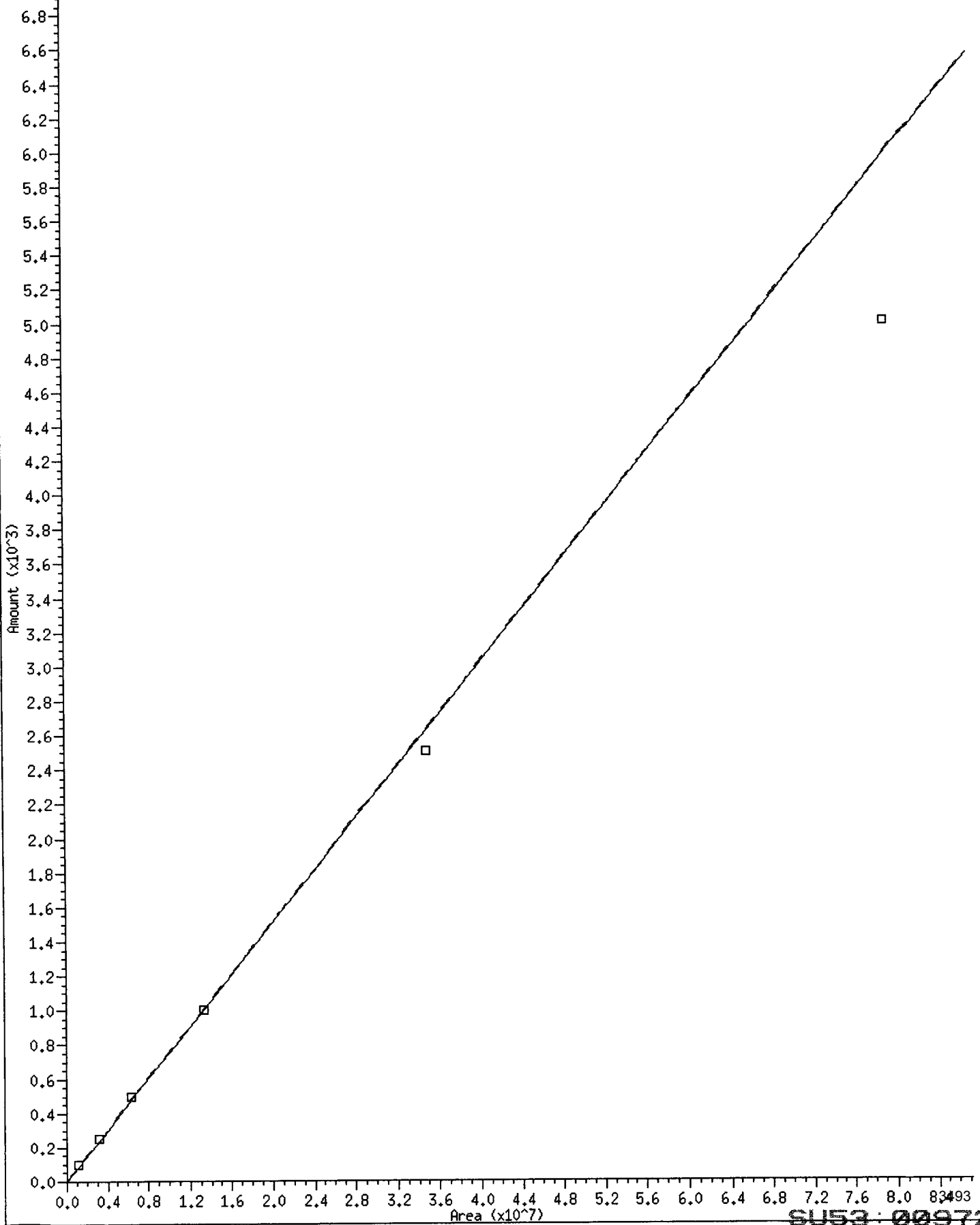
2030 0120A019.D MOIL 2500 MOIL 2500 1 Triacon Surr,

2051 0120A020.D MOIL 5000 MOIL 5000 1 Triacon Surr,

2112 0120A021.D MOIL ICV MOIL ICV 1 Triacon Surr,

30 NW MOil

Curve Type: Averaged By-Response
Amt = Rsp/13263.61
%RSD: 11.505



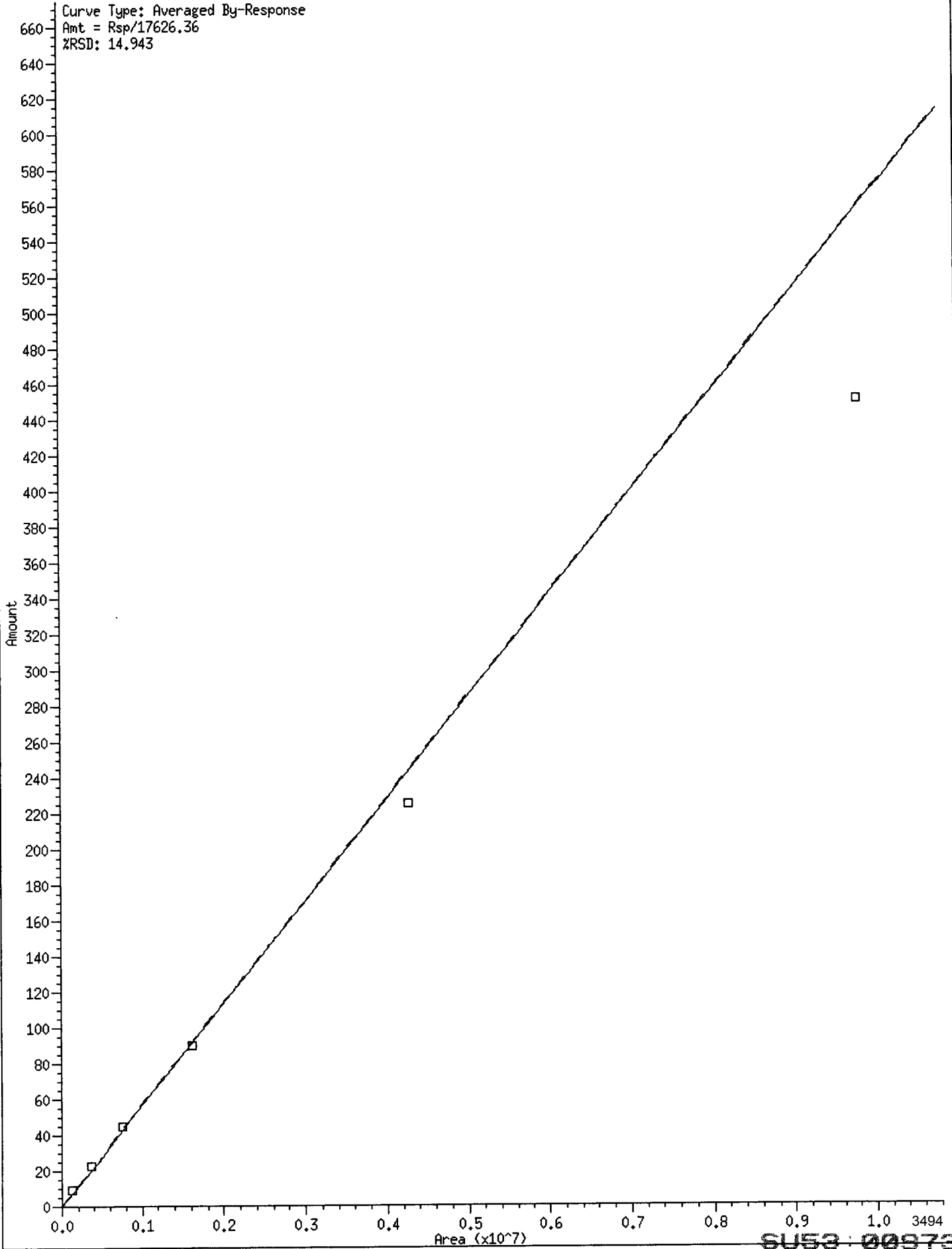
SU53-00972

* 15 Triacon Surr

Curve Type: Averaged By-Response

Amt = Rsp/17626.36

%RSD: 14.943



3494

SU53: 00973

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20110120.b/ftphfid9a.m
Batch File: /chem2/fid9.i/20110120.b
Inst ID: fid9.i

| ID: | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|-------------|--------|---------|
| FILENAME: | 0120A007 | 0120A008 | 0120A009 | 0120A010 | 0120A011 | 0120A014 | | | | |
| INJ. DATE: | 20-JAN-2011 | 20-JAN-2011 | 20-JAN-2011 | 20-JAN-2011 | 20-JAN-2011 | 20-JAN-2011 | | | | |
| INJ. TIME: | 16:13 | 16:34 | 16:56 | 17:17 | 17:39 | 18:43 | | | | |
| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
| 1 Toluene | 1.325 | 1.323 | 1.323 | 1.324 | 1.339 | 1.330 | 1.303 | 1.203-1.403 | 1.340 | 0.029 |
| 37 JET-A | 1.375 | 1.379 | 1.379 | 1.376 | 1.370 | 1.370 | 1.370 | 1.320-1.420 | 1.374 | 0.006 |
| 2 C8 | 1.518 | 1.519 | 1.519 | 1.507 | 1.518 | 1.508 | 1.519 | 1.419-1.619 | 1.514 | 0.005 |
| 3 C10 | 1.986 | 1.986 | 1.986 | 1.986 | 1.990 | 1.987 | 1.988 | 1.938-2.038 | 1.987 | 0.002 |
| 4 C12 | 2.624 | 2.624 | 2.624 | 2.624 | 2.624 | 2.619 | 2.623 | 2.573-2.673 | 2.623 | 0.002 |
| 5 C14 | 3.160 | 3.158 | 3.158 | 3.158 | 3.160 | 3.166 | 3.156 | 3.106-3.206 | 3.160 | 0.003 |
| 6 C16 | 3.627 | 3.626 | 3.626 | 3.628 | 3.633 | 3.629 | 3.627 | 3.577-3.677 | 3.629 | 0.003 |
| 7 C18 | 4.048 | 4.047 | 4.047 | 4.050 | 4.058 | 4.072 | 4.049 | 3.999-4.099 | 4.055 | 0.010 |
| 8 o-terph | 4.162 | 4.163 | 4.163 | 4.172 | 4.189 | 4.211 | 4.168 | 4.118-4.218 | 4.179 | 0.019 |
| 9 C20 | 4.434 | 4.434 | 4.434 | 4.436 | 4.441 | 4.427 | 4.435 | 4.385-4.485 | 4.435 | 0.005 |
| 10 C22 | 4.826 | 4.825 | 4.825 | 4.827 | 4.832 | 4.818 | 4.827 | 4.777-4.877 | 4.826 | 0.005 |
| 11 C24 | 5.323 | 5.322 | 5.322 | 5.324 | 5.325 | 5.327 | 5.324 | 5.274-5.374 | 5.324 | 0.002 |
| 12 C25 | 5.548 | 5.546 | 5.546 | 5.547 | 5.549 | 5.548 | 5.548 | 5.498-5.598 | 5.547 | 0.001 |
| 13 C26 | 5.749 | 5.749 | 5.749 | 5.750 | 5.750 | 5.749 | 5.749 | 5.699-5.799 | 5.750 | 0.001 |
| 14 C28 | 6.100 | 6.101 | 6.101 | 6.103 | 6.105 | 6.105 | 6.104 | 6.054-6.154 | 6.103 | 0.003 |
| 15 Triacon Surr | 6.413 | 6.413 | 6.413 | 6.414 | 6.417 | 6.414 | 6.422 | 6.372-6.472 | 6.415 | 0.002 |
| 16 C32 | 6.691 | 6.697 | 6.697 | 6.699 | 6.695 | 6.702 | 6.696 | 6.646-6.746 | 6.696 | 0.004 |

Reviewer 1 *AS* Date: 2/1/11
Reviewer 2 *AS* Date: 2-1-11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20110120.b/ftphfid9a.m
Batch File: /chem2/fid9.i/20110120.b
Inst ID: fid9.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 17 C34 | 6.953 | 6.959 | 6.959 | 6.955 | 6.964 | 6.953 | 6.959 | 6.909-7.009 | 6.957 | 0.005 |
| 18 Filter Peak | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.769 | 12.669-12.869 | +++++ | +++++ |
| 19 C36 | 7.210 | 7.206 | 7.208 | 7.213 | 7.209 | 7.210 | 7.209 | 7.159-7.259 | 7.209 | 0.002 |
| 20 C38 | 7.447 | 7.448 | 7.449 | 7.449 | 7.450 | 7.451 | 7.448 | 7.398-7.498 | 7.449 | 0.001 |
| 21 C40 | 7.725 | 7.725 | 7.722 | 7.727 | 7.723 | 7.721 | 7.723 | 7.673-7.773 | 7.724 | 0.002 |
| 31 NW Diesel | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.513 | 0.463-0.563 | +++++ | +++++ |
| 32 OR Diesel | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.690 | 0.640-0.740 | +++++ | +++++ |
| 33 AK Dies 102 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.660 | 0.610-0.710 | +++++ | +++++ |
| 30 NW MOil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 34 OR MOil | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.000 | 0.950-1.050 | +++++ | +++++ |
| 35 AK MOil 103 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.658 | 0.608-0.708 | +++++ | +++++ |
| 38 Bunker C | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.705 | 0.655-0.755 | +++++ | +++++ |
| 39 Creosote | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.550 | 0.500-0.600 | +++++ | +++++ |

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A005.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: RT
Client ID: RT
Injection: 20-JAN-2011 15:30
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|-------|---------|--------|-------------------|------------|------|
| Toluene | 1.303 | 0.000 | 383937 | 277413 | GAS (Tol-C12) | 998508 | 48 M |
| C8 | 1.519 | 0.000 | 53885 | 28465 | DIESEL (C12-C24) | 1655661 | 73 |
| C10 | 1.988 | 0.000 | 657169 | 294726 | M.OIL (C24-C38) | 1825693 | 138 |
| C12 | 2.623 | 0.000 | 676220 | 289238 | AK-102 (C10-C25) | 2271772 | 89 |
| C14 | 3.156 | 0.000 | 587065 | 285605 | AK-103 (C25-C36) | 1573197 | 185 |
| C16 | 3.627 | 0.000 | 678327 | 282100 | | | |
| C18 | 4.049 | 0.000 | 649103 | 277428 | | | |
| C20 | 4.435 | 0.000 | 617954 | 270911 | | | |
| C22 | 4.827 | 0.000 | 422551 | 260123 | | | |
| C24 | 5.324 | 0.000 | 385629 | 251401 | | | |
| C25 | 5.548 | 0.000 | 508484 | 337875 | | | |
| C26 | 5.749 | 0.000 | 386378 | 243690 | | | |
| C28 | 6.104 | 0.000 | 394465 | 236165 | | | |
| C32 | 6.696 | 0.000 | 375697 | 230951 | JP-4 (Tol-C14) | 1294923 | 79 M |
| C34 | 6.959 | 0.000 | 351484 | 236984 | BUNKERC (C10-C38) | 4092053 | 484 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.209 | 0.000 | 339607 | 248990 | | | |
| C38 | 7.448 | 0.000 | 272516 | 232146 | | | |
| C40 | 7.723 | 0.000 | 188027 | 195470 | | | |
| o-terph | 4.168 | 0.000 | 1676827 | 913732 | JET-A (C10-C18) | 1475173 | 107 |
| Triacon Surr | 6.422 | 0.000 | 1043688 | 719648 | JP8 (Tol-C16) | 1582493 | 90 M |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 913732 | 42.7 | 94.8 |
| Triacontane | 719648 | 40.8 | 90.7 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

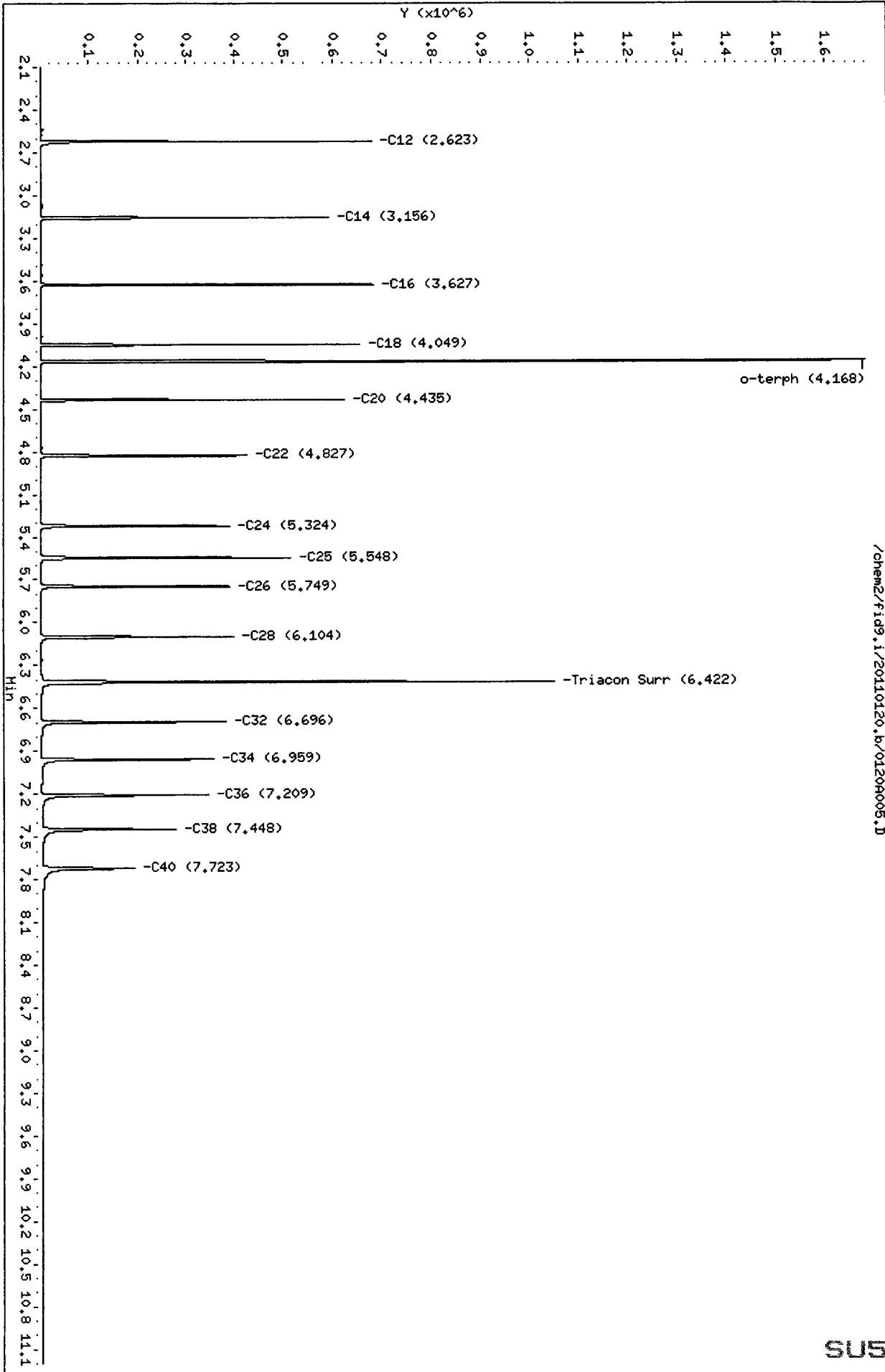
Handwritten signature and date: JR 1/31/11

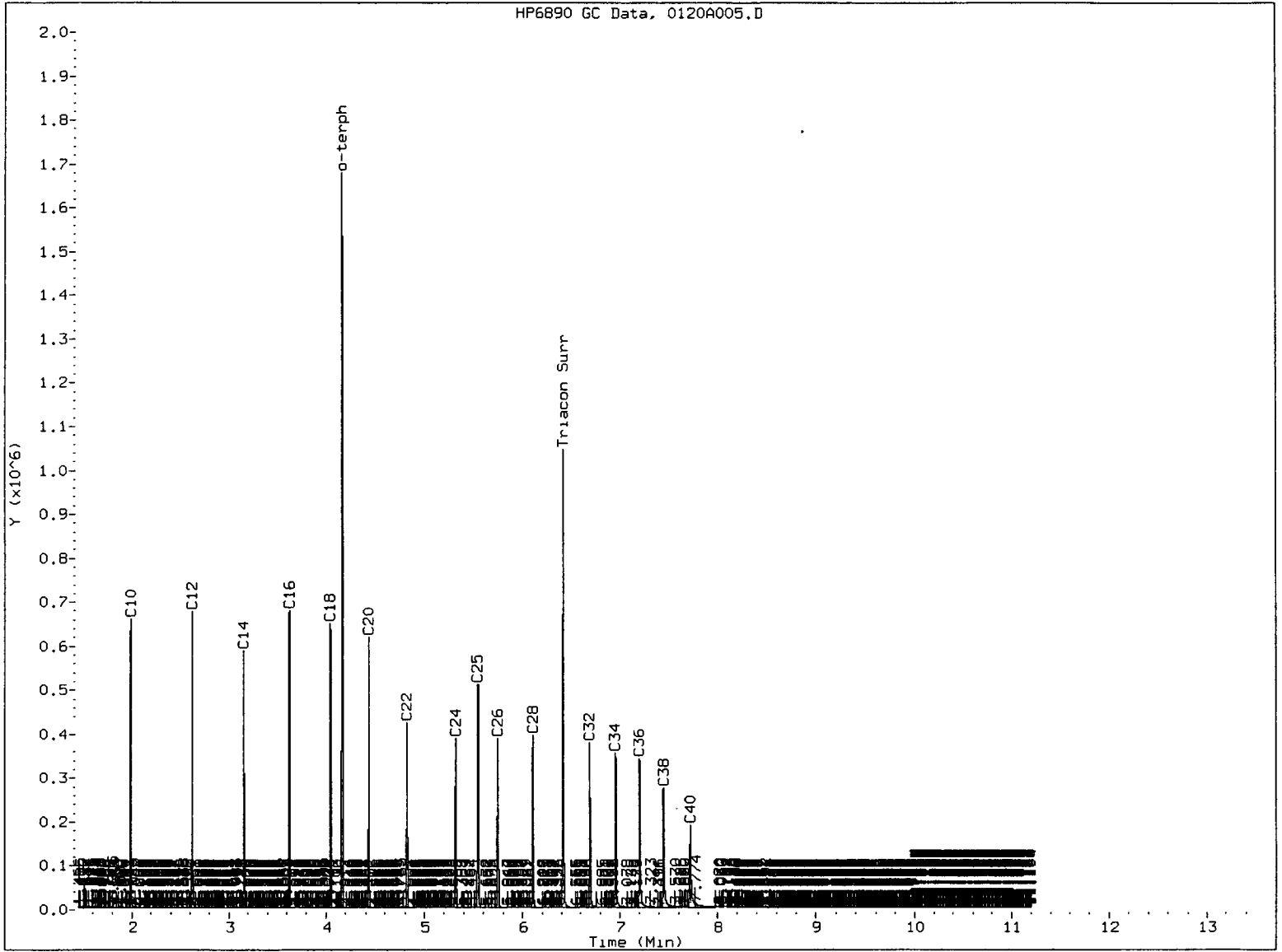
Data File: /chem2/fid9.i/20110120.b/01209005.D
Date : 20-JAN-2011 15:30
Client ID: RT
Sample Info: RT

Column phase: RTX-1

/chem2/fid9.i/20110120.b/01209005.D

Instrument: fid9.1
Operator: JR
Column diameter: 0.25





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: Ac

Date: 7/31/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A006.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: IB
Client ID:
Injection: 20-JAN-2011 15:52
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|------|
| Toluene | 1.322 | 0.019 | 63463 | 64572 | GAS (Tol-C12) | 139212 | 7 |
| C8 | 1.519 | 0.000 | 7460 | 7425 | DIESEL (C12-C24) | 22665 | 1 |
| C10 | 1.987 | -0.001 | 1338 | 1740 | M.OIL (C24-C38) | 44620 | 3 |
| C12 | 2.612 | -0.011 | 706 | 1274 | AK-102 (C10-C25) | 44595 | 2 |
| C14 | 3.152 | -0.005 | 306 | 190 | AK-103 (C25-C36) | 32471 | 4 |
| C16 | 3.625 | -0.002 | 165 | 22 | | | |
| C18 | 4.049 | 0.000 | 184 | 200 | | | |
| C20 | 4.437 | 0.002 | 136 | 115 | | | |
| C22 | 4.830 | 0.003 | 67 | 18 | | | |
| C24 | 5.318 | -0.006 | 33 | 22 | | | |
| C25 | 5.546 | -0.002 | 53 | 25 | | | |
| C26 | 5.745 | -0.004 | 45 | 34 | | | |
| C28 | 6.099 | -0.005 | 256 | 173 | | | |
| C32 | 6.695 | -0.001 | 1292 | 2211 | JP-4 (Tol-C14) | 148417 | 9 |
| C34 | 6.957 | -0.002 | 875 | 1419 | BUNKERC (C10-C38) | 89113 | 11 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.209 | 0.000 | 656 | 194 | | | |
| C38 | 7.447 | -0.001 | 938 | 390 | | | |
| C40 | 7.718 | -0.005 | 1264 | 377 | | | |
| o-terph | 4.171 | 0.003 | 1830174 | 1085386 | JET-A (C10-C18) | 40391 | 3 |
| Triacon Surr | 6.421 | -0.001 | 1029861 | 732679 | JP8 (Tol-C16) | 154222 | 9 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1085386 | 50.7 | 112.6 |
| Triacontane | 732679 | 41.6 | 92.4 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Handwritten signature and date: JR 1/31/11

Data File: /chem2/fid9.i/20110120.b/01204006.D
Date : 20-JAN-2011 15:52

Client ID:

Sample Info: IB

Column phase: RTX-1

Instrument: fid9.i

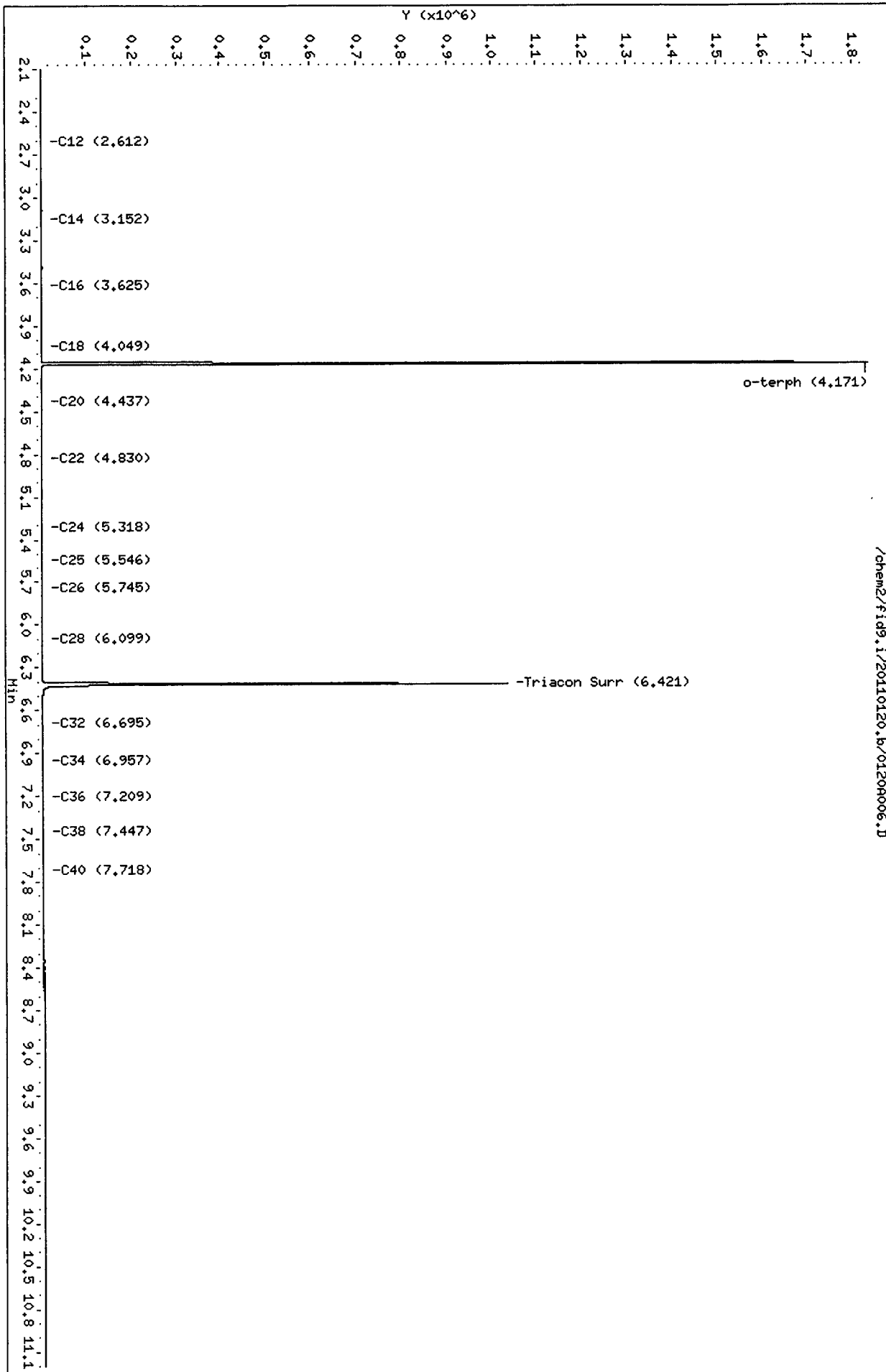
Operator: JR

Column diameter: 0.25

Page 1

3501

SU53 : 00980



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A015.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: MOIL 100
 Client ID: MOIL 100
 Injection: 20-JAN-2011 19:04
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.389 | 0.087 | 5706 | 7708 | GAS (Tol-C12) | 93925 | 4 |
| C8 | 1.520 | 0.001 | 2852 | 4411 | DIESEL (C12-C24) | 144444 | 6 |
| C10 | 1.989 | 0.001 | 1022 | 660 | M.OIL (C24-C38) | 1136455 | 86 |
| C12 | 2.634 | 0.011 | 1012 | 2014 | AK-102 (C10-C25) | 193252 | 8 |
| C14 | 3.146 | -0.010 | 120 | 106 | AK-103 (C25-C36) | 953994 | 112 M |
| C16 | 3.622 | -0.004 | 46 | 22 | | | |
| C18 | 4.057 | 0.008 | 518 | 366 | | | |
| C20 | 4.438 | 0.003 | 947 | 1071 | | | |
| C22 | 4.821 | -0.006 | 1921 | 1273 | | | |
| C24 | 5.322 | -0.002 | 3662 | 2456 | | | |
| C25 | 5.544 | -0.004 | 4924 | 3028 | | | |
| C26 | 5.750 | 0.001 | 6100 | 2283 | | | |
| C28 | 6.101 | -0.003 | 8149 | 3201 | | | |
| C32 | 6.693 | -0.003 | 11119 | 10215 | JP-4 (Tol-C14) | 99958 | 6 |
| C34 | 6.953 | -0.006 | 12526 | 8399 | BUNKERC (C10-C38) | 1301044 | 154 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.214 | 0.005 | 11528 | 8064 | | | |
| C38 | 7.451 | 0.003 | 10890 | 5404 | | | |
| C40 | 7.731 | 0.008 | 7400 | 1762 | | | |
| o-terph | 4.171 | 0.003 | 3037 | 2005 | JET-A (C10-C18) | 37543 | 3 |
| Triacon Surr | 6.413 | -0.008 | 240819 | 127466 | JP8 (Tol-C16) | 104076 | 6 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 2005 | 0.1 | 0.2 |
| Triacontane | 127466 | 7.2 | 16.1 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01209015.D

Date: 20-JAN-2011 19:04

Client ID: HOIL 100

Sample Info: HOIL 100

Column phase: RTX-1

Instrument: fid9.i

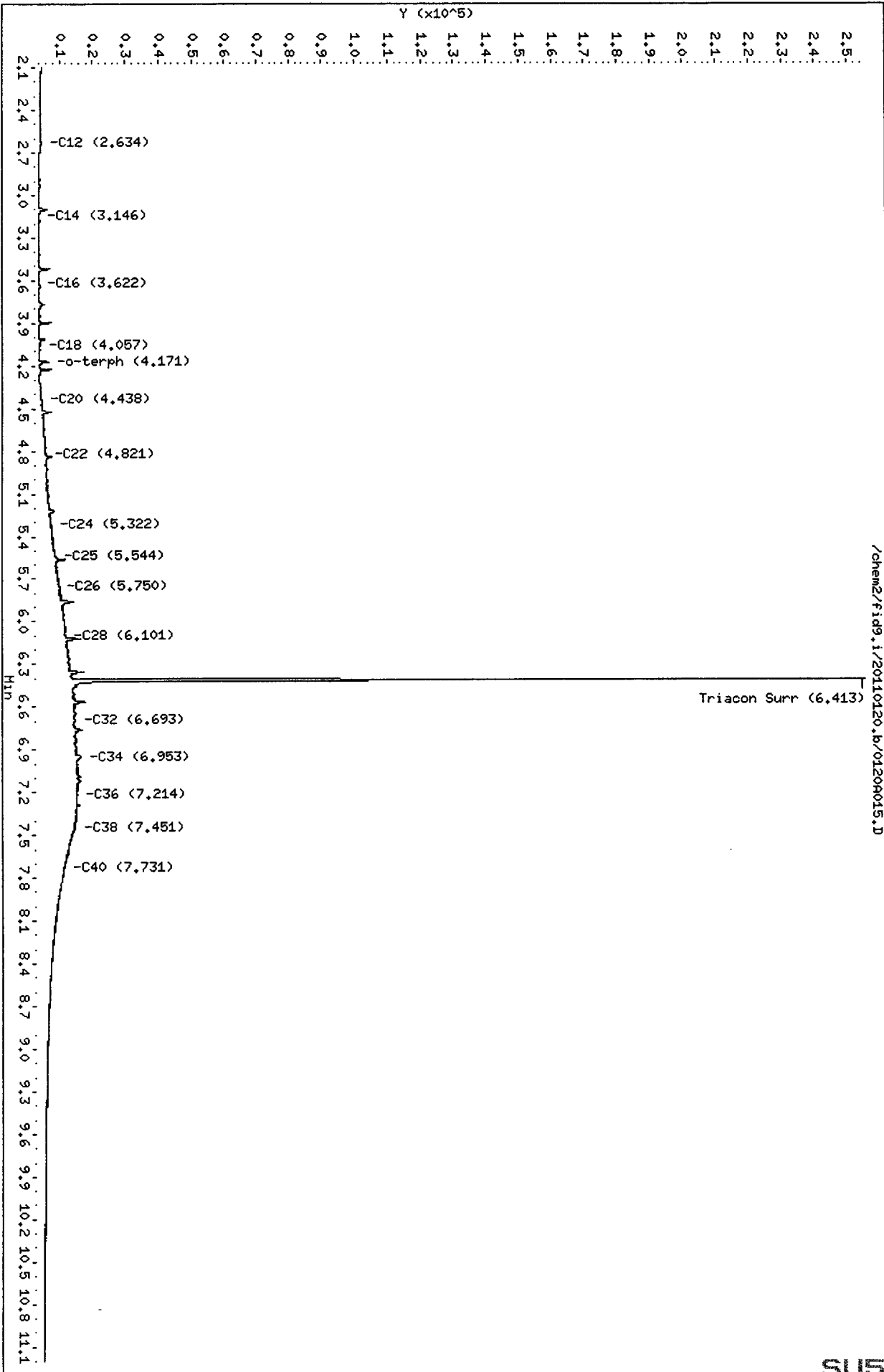
Operator: JR

Column diameter: 0.25

Page 1

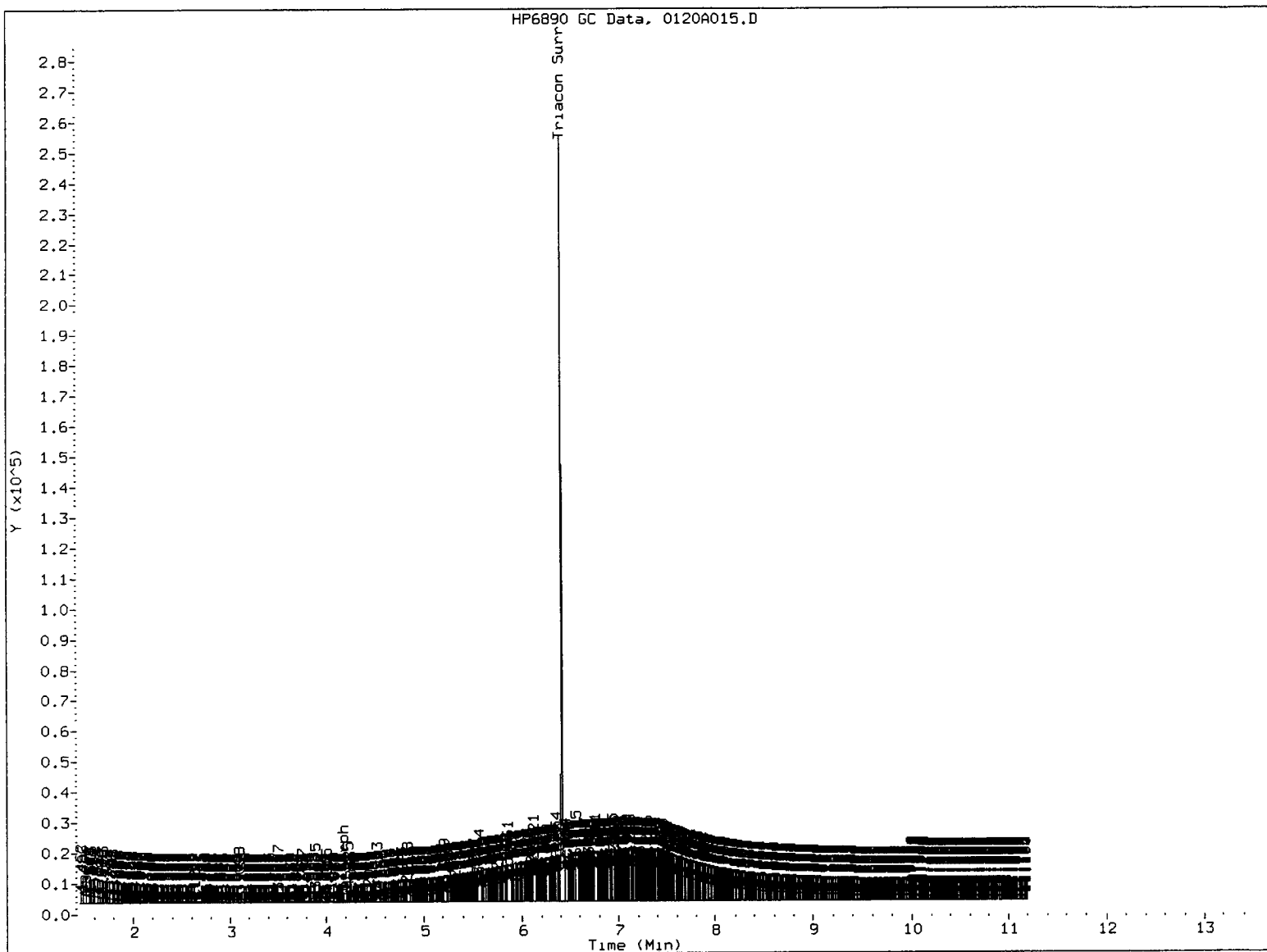
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SU53 : 00982



FID:9A-2C/RTX-1 MOIL 100

FID:9A SIGNAL



MANUAL INTEGRATION

- 0
- 1. Baseline correction
 - 2. Poor chromatography
 - 3. Peak not found
 - 4. Totals calculation

5. Other _____

Analyst: *M*

Date: *7/31/11*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A016.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: MOIL 250
Client ID: MOIL 250
Injection: 20-JAN-2011 19:26
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.321 | 0.018 | 24499 | 34002 | GAS (Tol-C12) | 114803 | 5 |
| C8 | 1.516 | -0.003 | 2675 | 5530 | DIESEL (C12-C24) | 373276 | 16 |
| C10 | 1.987 | -0.001 | 1203 | 885 | M.OIL (C24-C38) | 3123579 | 235 |
| C12 | 2.624 | 0.001 | 598 | 824 | AK-102 (C10-C25) | 480106 | 19 |
| C14 | 3.163 | 0.006 | 127 | 50 | AK-103 (C25-C36) | 2638889 | 311 M |
| C16 | 3.617 | -0.010 | 58 | 52 | | | |
| C18 | 4.054 | 0.005 | 452 | 382 | | | |
| C20 | 4.435 | 0.000 | 2268 | 2105 | | | |
| C22 | 4.825 | -0.002 | 5668 | 1790 | | | |
| C24 | 5.324 | 0.000 | 10732 | 11256 | | | |
| C25 | 5.549 | 0.002 | 14199 | 4769 | | | |
| C26 | 5.752 | 0.003 | 17383 | 4783 | | | |
| C28 | 6.104 | 0.000 | 22804 | 8180 | | | |
| C32 | 6.694 | -0.003 | 31340 | 34792 | JP-4 (Tol-C14) | 121010 | 7 |
| C34 | 6.958 | -0.001 | 33740 | 8677 | BUNKERC (C10-C38) | 3517328 | 416 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.203 | -0.006 | 32178 | 16433 | | | |
| C38 | 7.447 | -0.001 | 29073 | 8093 | | | |
| C40 | 7.722 | 0.000 | 19542 | 5834 | | | |
| o-terph | 4.170 | 0.002 | 1505 | 1077 | JET-A (C10-C18) | 38228 | 3 |
| Triacon Surr | 6.419 | -0.003 | 614748 | 364454 | JP8 (Tol-C16) | 123044 | 7 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 1077 | 0.1 | 0.1 |
| Triacotane | 364454 | 20.7 | 45.9 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/0120A016.D

Date: 20-JAN-2011 19:26

Client ID: HOIL 250

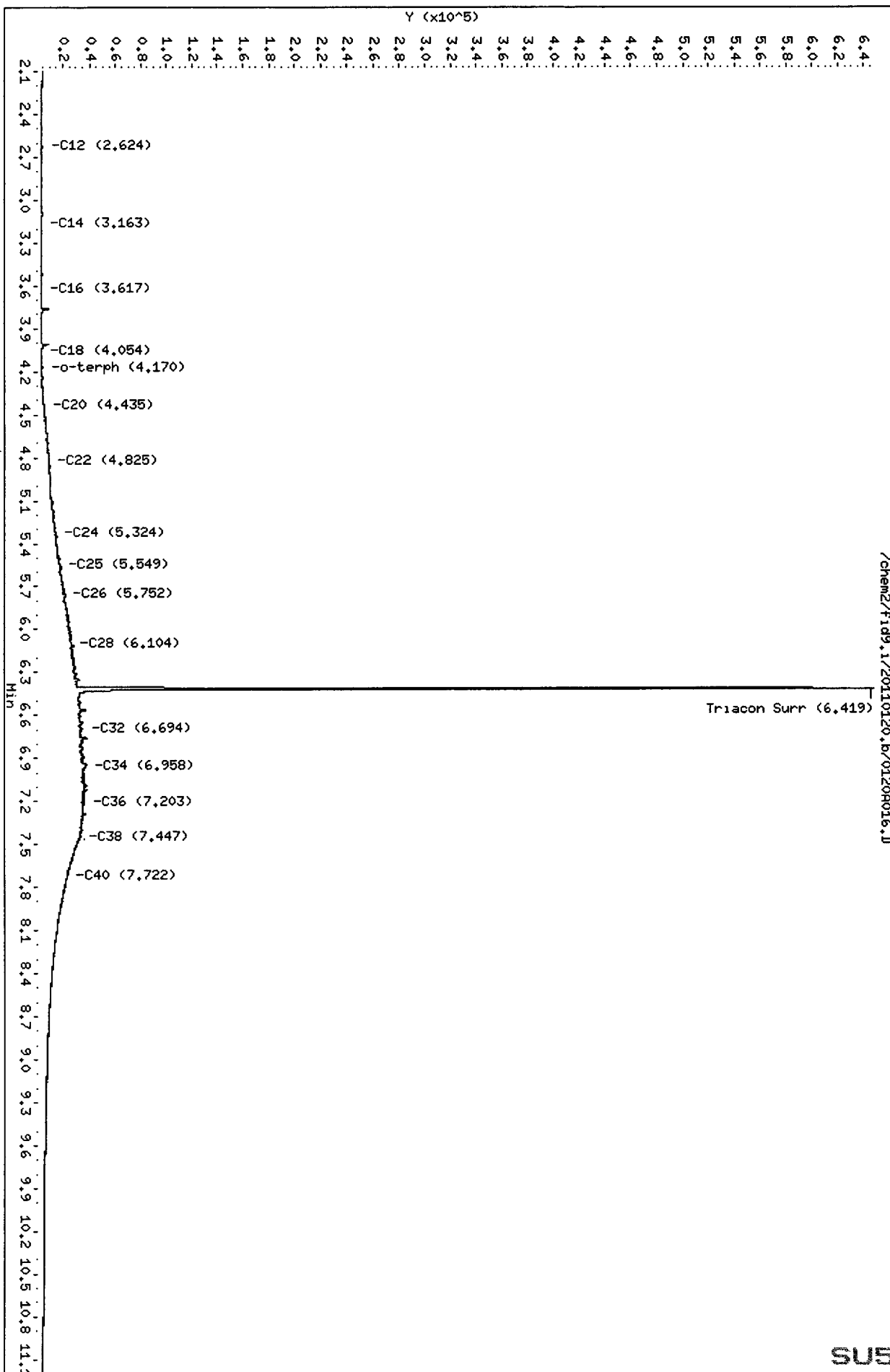
Sample Info: HOIL 250

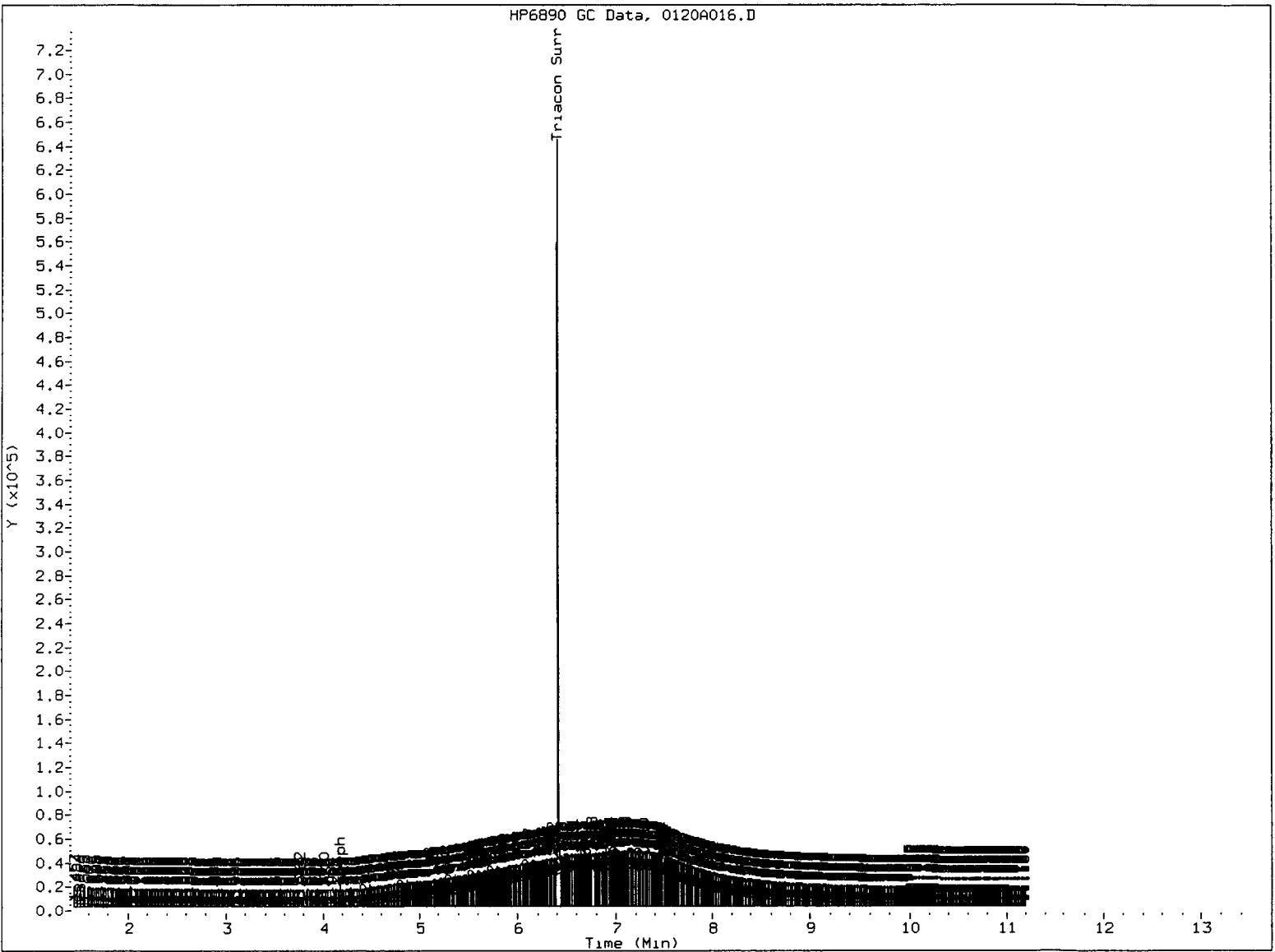
Column phase: RTX-1

Instrument: fid9.i

Operator: JR

Column diameter: 0.25





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: *1/31/11*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A017.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: MOIL 500
Client ID: MOIL 500
Injection: 20-JAN-2011 19:47
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.323 | 0.021 | 43781 | 53443 | GAS (Tol-C12) | 132643 | 6 |
| C8 | 1.529 | 0.010 | 2512 | 2544 | DIESEL (C12-C24) | 765586 | 34 |
| C10 | 1.986 | -0.002 | 1542 | 1015 | M.OIL (C24-C38) | 6320045 | 476 |
| C12 | 2.617 | -0.006 | 678 | 708 | AK-102 (C10-C25) | 939777 | 37 |
| C14 | 3.148 | -0.008 | 142 | 100 | AK-103 (C25-C36) | 5282599 | 622 M |
| C16 | 3.626 | -0.001 | 77 | 13 | | | |
| C18 | 4.052 | 0.003 | 831 | 494 | | | |
| C20 | 4.431 | -0.005 | 4546 | 5044 | | | |
| C22 | 4.823 | -0.004 | 11920 | 8256 | | | |
| C24 | 5.320 | -0.004 | 21050 | 17048 | | | |
| C25 | 5.545 | -0.002 | 28543 | 17168 | | | |
| C26 | 5.746 | -0.003 | 34993 | 21041 | | | |
| C28 | 6.106 | 0.002 | 46559 | 26544 | | | |
| C32 | 6.694 | -0.003 | 64675 | 67176 | JP-4 (Tol-C14) | 139331 | 8 |
| C34 | 6.964 | 0.005 | 69256 | 121592 | BUNKERC (C10-C38) | 7106881 | 840 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.205 | -0.004 | 65634 | 19550 | | | |
| C38 | 7.447 | -0.002 | 58235 | 26479 | | | |
| C40 | 7.725 | 0.002 | 37847 | 15702 | | | |
| o-terph | 4.168 | 0.000 | 2027 | 1735 | JET-A (C10-C18) | 49436 | 4 |
| Triacon Surr | 6.424 | 0.002 | 1065133 | 748192 | JP8 (Tol-C16) | 141822 | 8 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 1735 | 0.1 | 0.2 |
| Triacontane | 748192 | 42.4 | 94.3 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01200017.D

Date: 20-JAN-2011 19:47

Client ID: MOIL 500

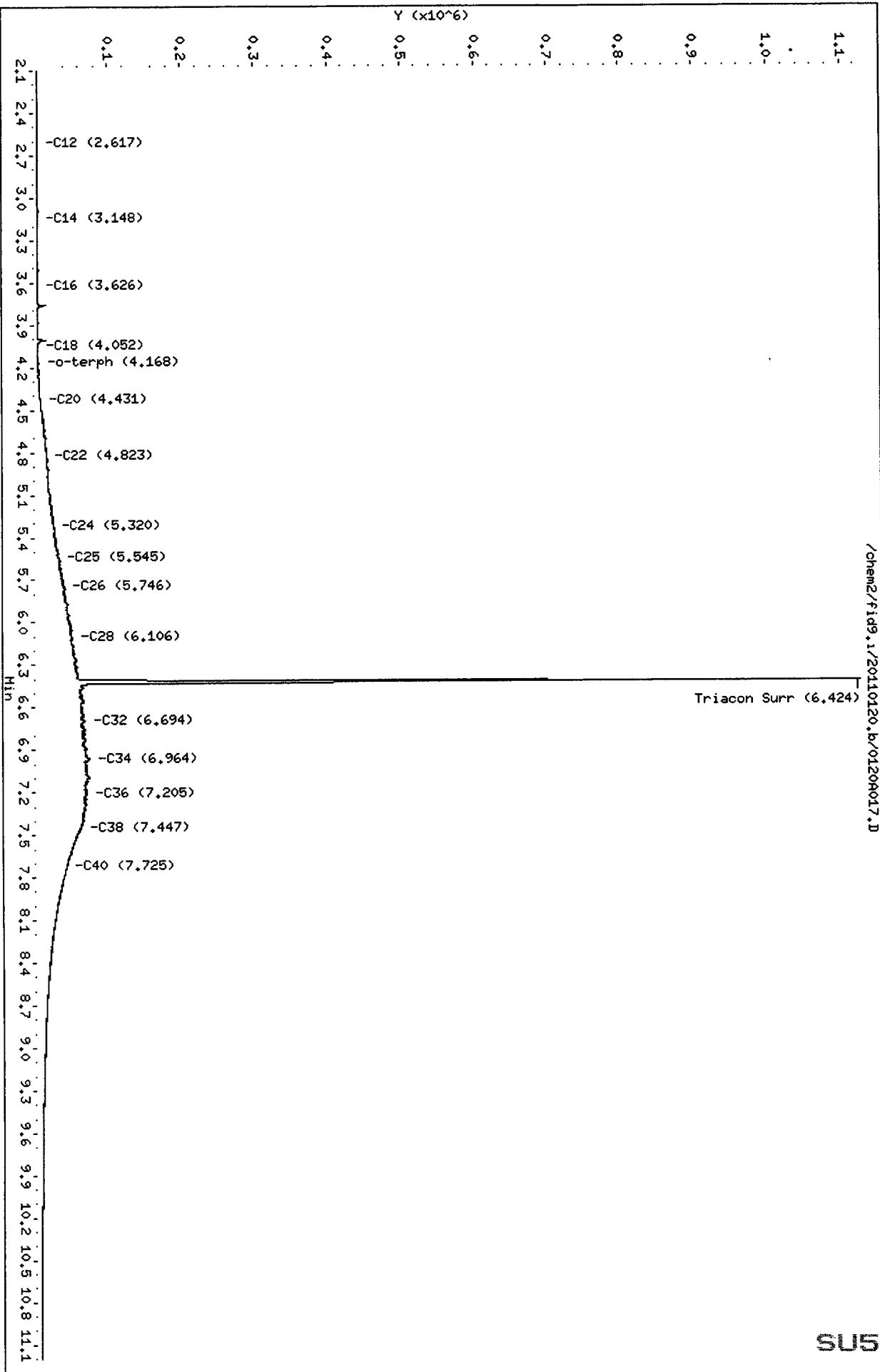
Sample Info: MOIL 500

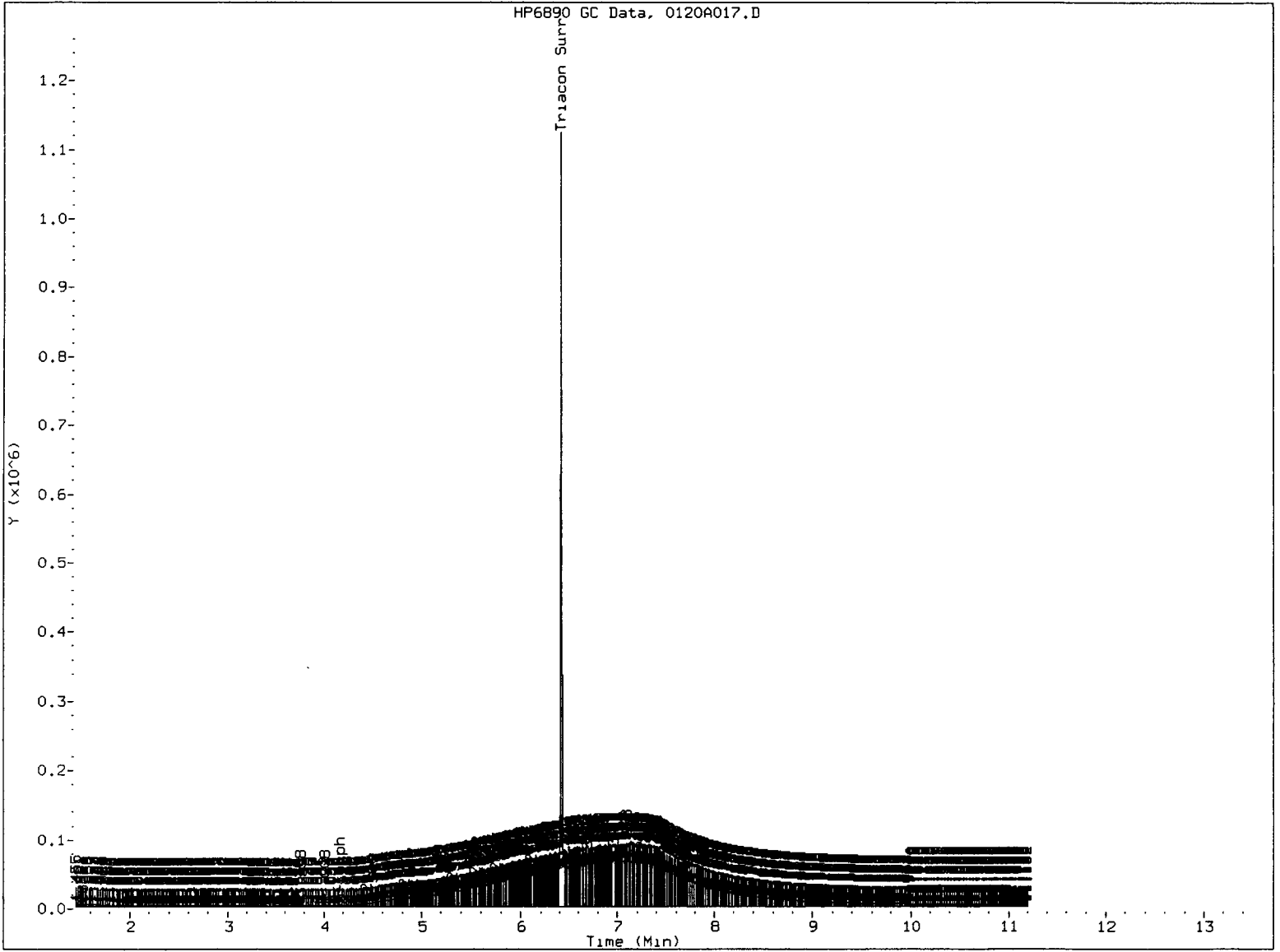
Column phase: RTX-1

Instrument: fid9.i

Operator: JR

Column diameter: 0.25





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst:

Date: 7/27/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A018.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: MOIL 1000
Client ID: MOIL 1000
Injection: 20-JAN-2011 20:08
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|--------|
| Toluene | 1.320 | 0.017 | 81843 | 97285 | GAS (Tol-C12) | 203748 | 10 |
| C8 | 1.512 | -0.007 | 3230 | 2286 | DIESEL (C12-C24) | 1518852 | 67 |
| C10 | 1.988 | 0.000 | 2360 | 1715 | M.OIL (C24-C38) | 13320247 | 1004 |
| C12 | 2.631 | 0.008 | 888 | 1273 | AK-102 (C10-C25) | 1901920 | 75 |
| C14 | 3.147 | -0.009 | 228 | 186 | AK-103 (C25-C36) | 11226532 | 1321 M |
| C16 | 3.633 | 0.006 | 484 | 380 | | | |
| C18 | 4.052 | 0.002 | 1613 | 1006 | | | |
| C20 | 4.436 | 0.000 | 8959 | 3409 | | | |
| C22 | 4.828 | 0.001 | 23167 | 5519 | | | |
| C24 | 5.329 | 0.004 | 43630 | 18705 | | | |
| C25 | 5.550 | 0.002 | 58165 | 21998 | | | |
| C26 | 5.746 | -0.003 | 70440 | 20651 | | | |
| C28 | 6.104 | 0.000 | 96699 | 66092 | | | |
| C32 | 6.696 | 0.000 | 139289 | 146808 | JP-4 (Tol-C14) | 213446 | 13 |
| C34 | 6.965 | 0.006 | 148583 | 95849 | BUNKERC (C10-C38) | 14867691 | 1757 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.209 | 0.000 | 140688 | 112362 | | | |
| C38 | 7.456 | 0.007 | 118466 | 87213 | | | |
| C40 | 7.719 | -0.004 | 80471 | 71825 | | | |
| o-terph | 4.169 | 0.000 | 2612 | 2816 | JET-A (C10-C18) | 78477 | 6 |
| Triacon Surr | 6.435 | 0.013 | 1715980 | 1612172 | JP8 (Tol-C16) | 216255 | 12 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 2816 | 0.1 | 0.3 |
| Triacontane | 1612172 | 91.5 | 203.3 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/0120R018.D

Date: 20-JAN-2011 20:08

Client ID: M01L 1000

Sample Info: M01L 1000

Column phase: RTX-1

Instrument: fid9.i

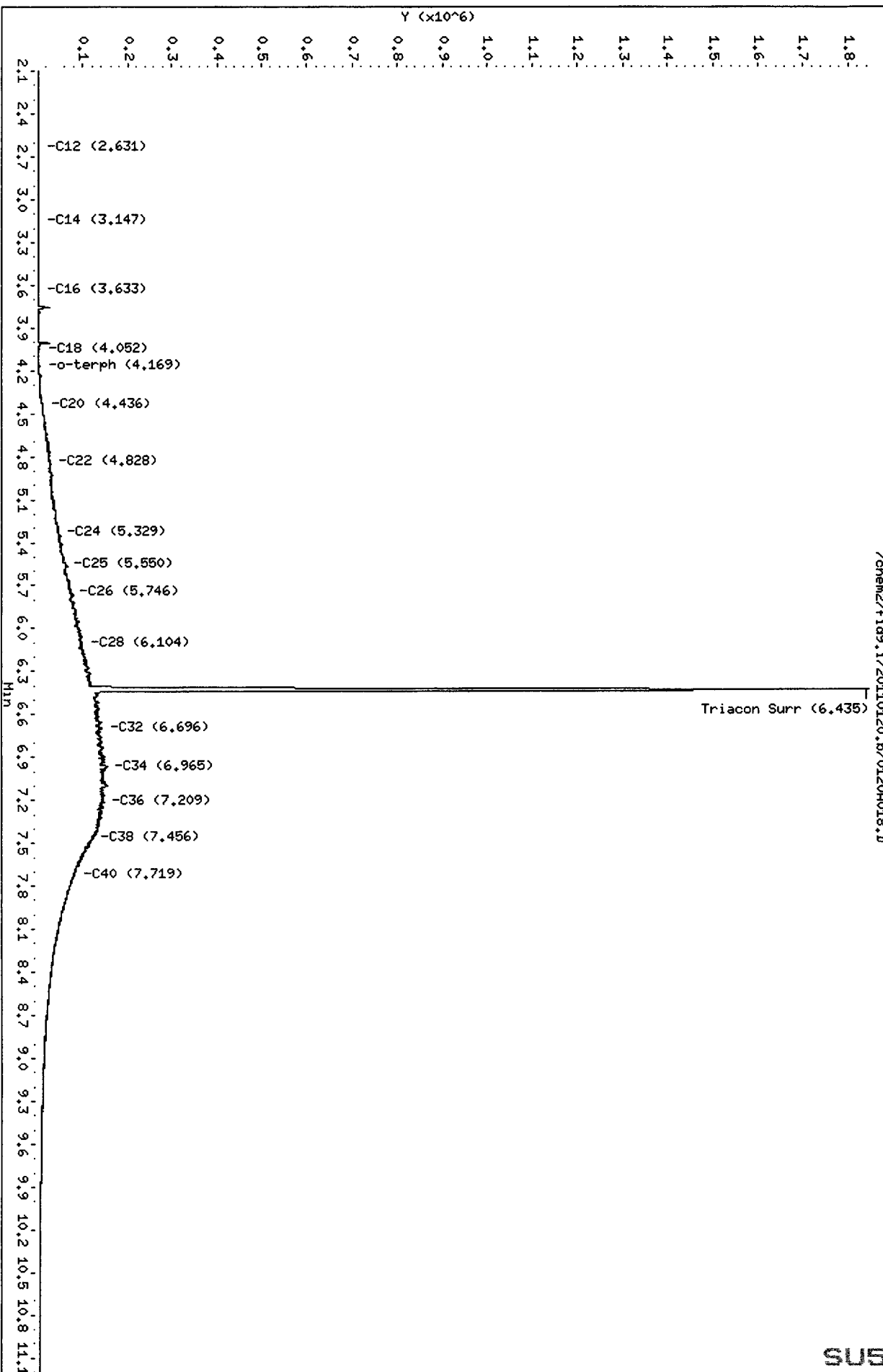
Operator: JR

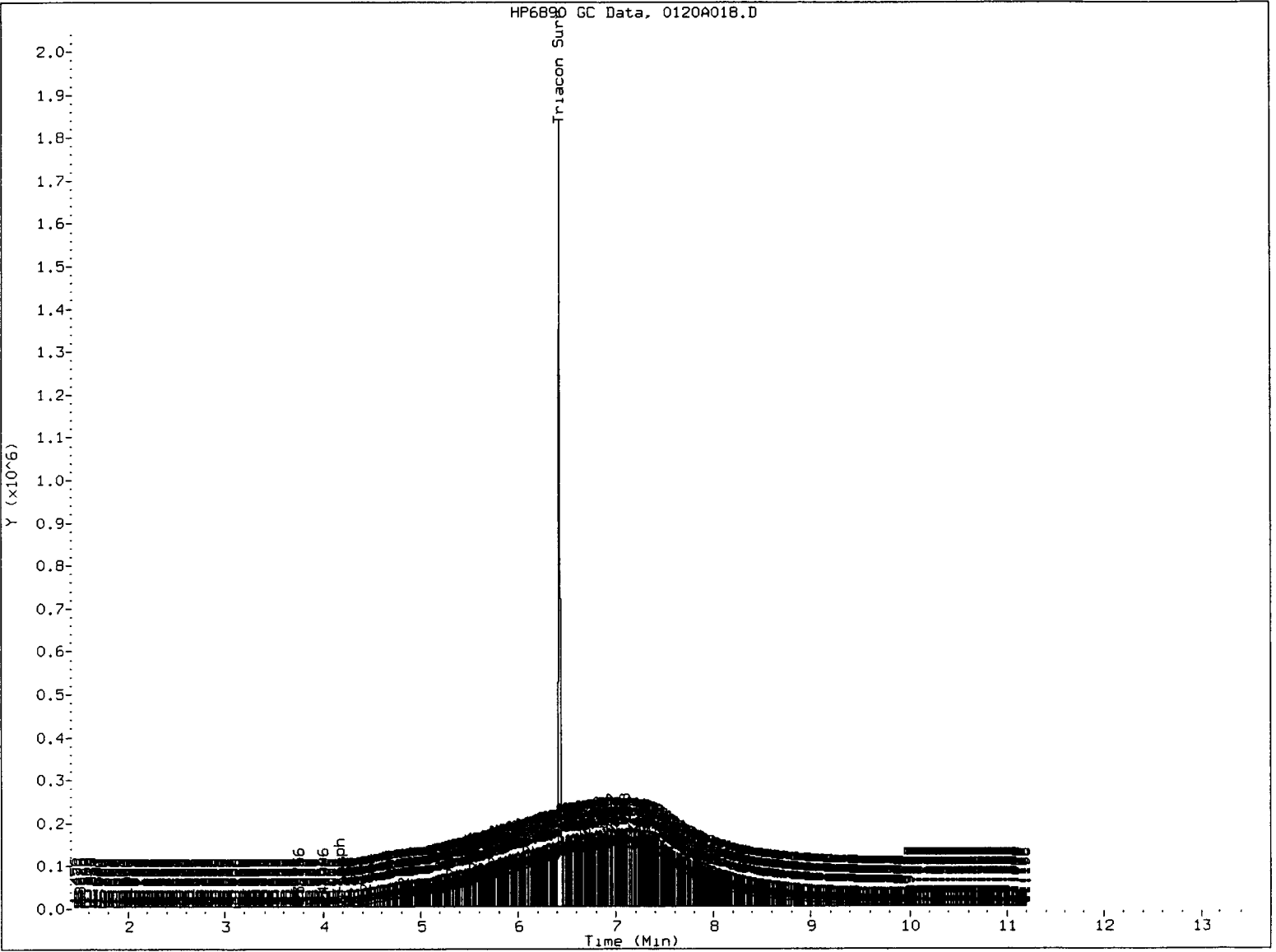
Column diameter: 0.25

Page 1

3512

SU58 : 00991





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: AK Date: 1/31/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A019.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: MOIL 2500
 Client ID: MOIL 2500
 Injection: 20-JAN-2011 20:30
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|--------|
| Toluene | 1.322 | 0.019 | 181583 | 186696 | GAS (Tol-C12) | 263341 | 13 |
| C8 | 1.515 | -0.004 | 2499 | 4083 | DIESEL (C12-C24) | 3680611 | 162 |
| C10 | 1.988 | 0.000 | 3206 | 3587 | M.OIL (C24-C38) | 34819034 | 2625 |
| C12 | 2.626 | 0.004 | 1670 | 1694 | AK-102 (C10-C25) | 4557026 | 179 |
| C14 | 3.165 | 0.009 | 1498 | 1077 | AK-103 (C25-C36) | 29454729 | 3466 M |
| C16 | 3.631 | 0.005 | 1192 | 1020 | | | |
| C18 | 4.051 | 0.002 | 3711 | 2646 | | | |
| C20 | 4.436 | 0.000 | 21315 | 10282 | | | |
| C22 | 4.828 | 0.001 | 57158 | 58841 | | | |
| C24 | 5.327 | 0.003 | 101911 | 38344 | | | |
| C25 | 5.549 | 0.001 | 142178 | 140332 | | | |
| C26 | 5.747 | -0.002 | 177672 | 119296 | | | |
| C28 | 6.101 | -0.002 | 241046 | 47751 | | | |
| C32 | 6.693 | -0.003 | 352576 | 179610 | JP-4 (Tol-C14) | 273996 | 17 |
| C34 | 6.956 | -0.003 | 371047 | 123726 | BUNKERC (C10-C38) | 38519660 | 4553 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.215 | 0.006 | 363055 | 255103 | | | |
| C38 | 7.446 | -0.002 | 301713 | 113104 | | | |
| C40 | 7.723 | 0.000 | 184864 | 69317 | | | |
| o-terph | 4.167 | -0.002 | 4283 | 4343 | JET-A (C10-C18) | 126434 | 9 |
| Triacon Surr | 6.459 | 0.037 | 3154654 | 4283818 | JP8 (Tol-C16) | 279224 | 16 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 4343 | 0.2 | 0.5 |
| Triacotane | 4283818 | 243.0 | 540.1 |

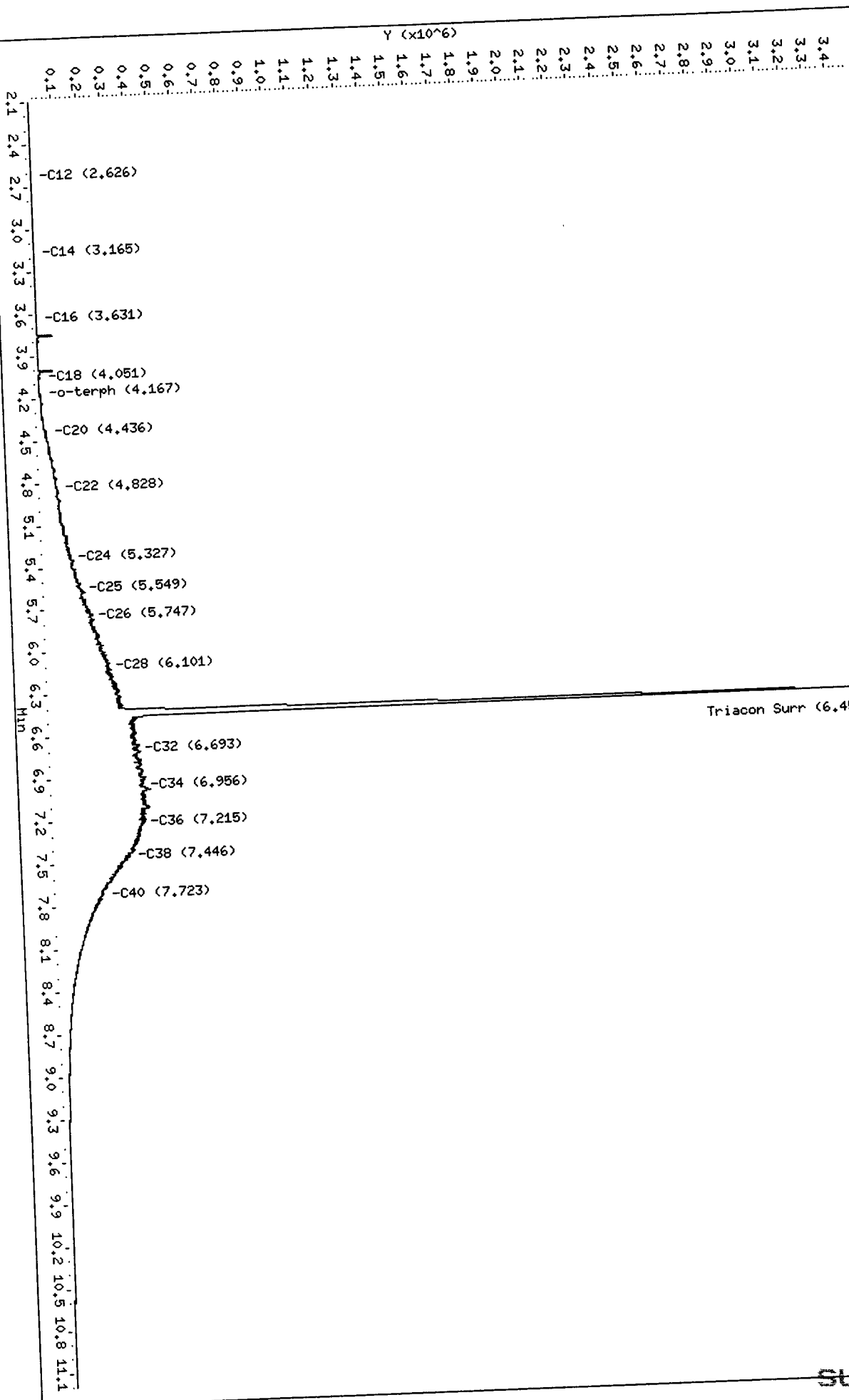
| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01200019.D
Date: 20-JAN-2011 20:30
Client ID: H01L 2500
Sample Info: H01L 2500

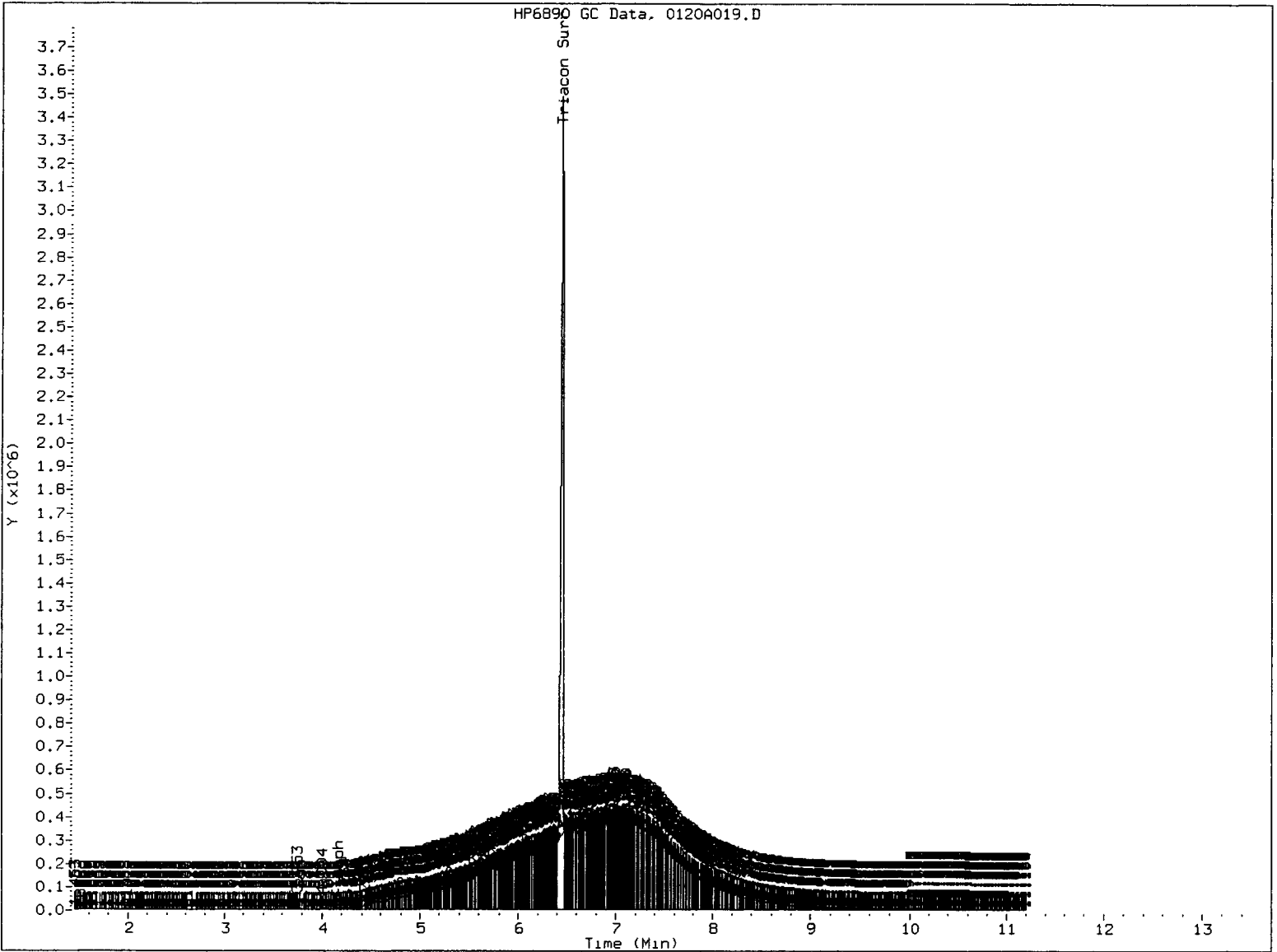
Column phase: RTX-1

/chem2/fid9.i/20110120.b/01200019.D

Instrument: fid9.i
Operator: JR
Column diameter: 0.25



HP6890 GC Data, 0120A019.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst:

Date:

[Handwritten signature]
[Handwritten date: 1/31/11]

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A020.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: MOIL 5000
Client ID: MOIL 5000
Injection: 20-JAN-2011 20:51
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|---------|
| Toluene | 1.324 | 0.021 | 384362 | 214781 | GAS (Tol-C12) | 307819 | 15 |
| C8 | 1.529 | 0.010 | 2486 | 2344 | DIESEL (C12-C24) | 8245277 | 364 |
| C10 | 1.985 | -0.003 | 8171 | 4428 | M.OIL (C24-C38) | 79174165 | 5969 |
| C12 | 2.625 | 0.002 | 5015 | 2946 | AK-102 (C10-C25) | 10265591 | 402 |
| C14 | 3.162 | 0.006 | 3723 | 2076 | AK-103 (C25-C36) | 68553822 | 8067 M |
| C16 | 3.629 | 0.003 | 2606 | 1651 | | | |
| C18 | 4.051 | 0.001 | 7928 | 5724 | | | |
| C20 | 4.438 | 0.003 | 47245 | 18359 | | | |
| C22 | 4.831 | 0.004 | 128308 | 39842 | | | |
| C24 | 5.322 | -0.002 | 241324 | 137531 | | | |
| C25 | 5.550 | 0.002 | 308754 | 126492 | | | |
| C26 | 5.743 | -0.006 | 457198 | 467304 | | | |
| C28 | 6.106 | 0.003 | 566412 | 190357 | | | |
| C32 | 6.698 | 0.001 | 855276 | 348917 | JP-4 (Tol-C14) | 325031 | 20 |
| C34 | 6.958 | -0.001 | 881639 | 293712 | BUNKERC (C10-C38) | 87442633 | 10336 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.214 | 0.005 | 801988 | 376629 | | | |
| C38 | 7.452 | 0.004 | 563279 | 502147 | | | |
| C40 | 7.722 | -0.001 | 241022 | 143323 | | | |
| o-terph | 4.166 | -0.003 | 7763 | 9588 | JET-A (C10-C18) | 251715 | 18 |
| Triacon Surr | 6.496 | 0.075 | 4155743 | 9818370 | JP8 (Tol-C16) | 335455 | 19 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|--------|
| o-Terphenyl | 9588 | 0.4 | 1.0 |
| Triacontane | 9818370 | 557.0 | 1237.8 |

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01200020.D

Date: 20-JAN-2011 20:51

Client ID: MOIL 5000

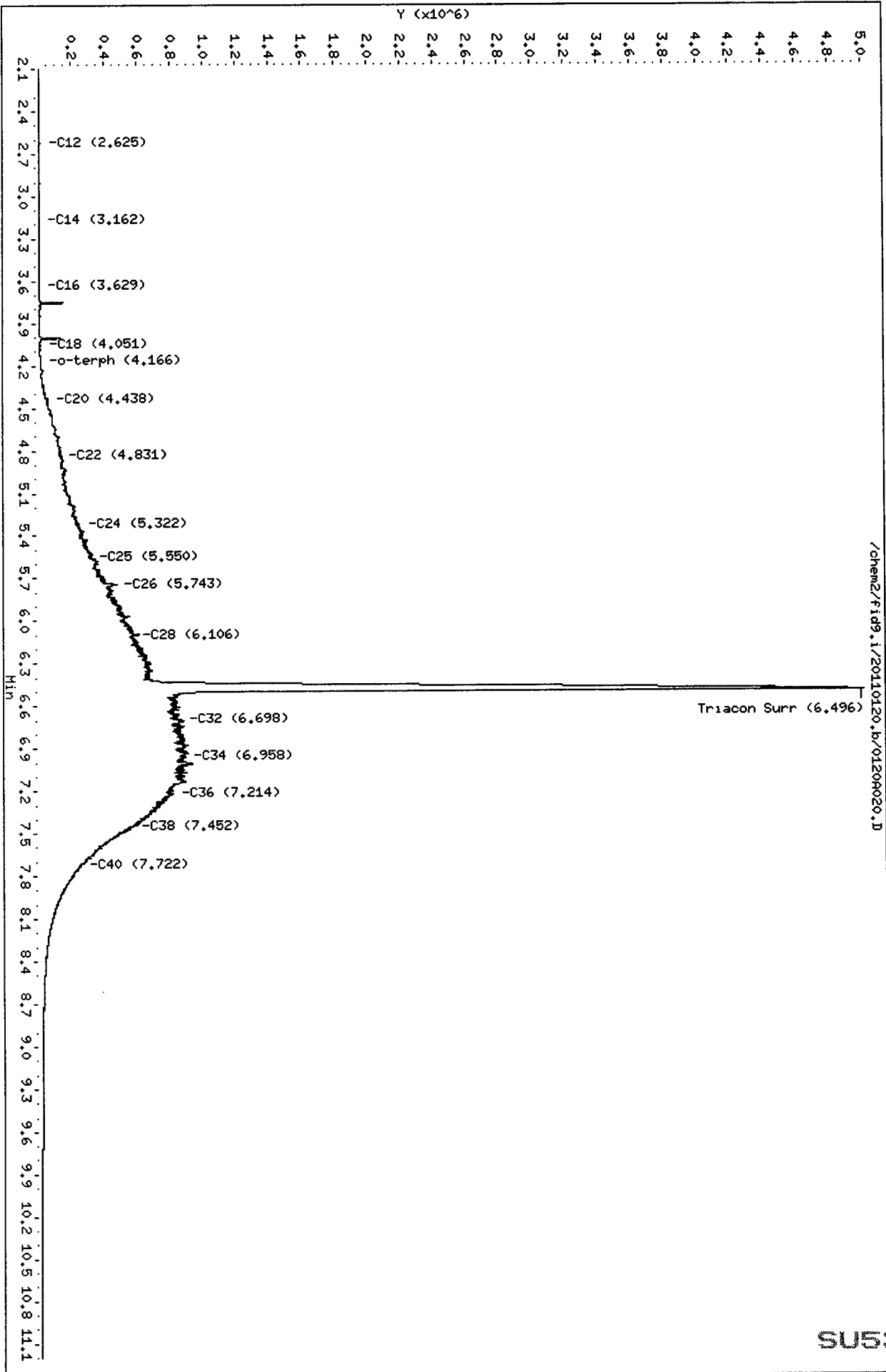
Sample Info: MOIL 5000

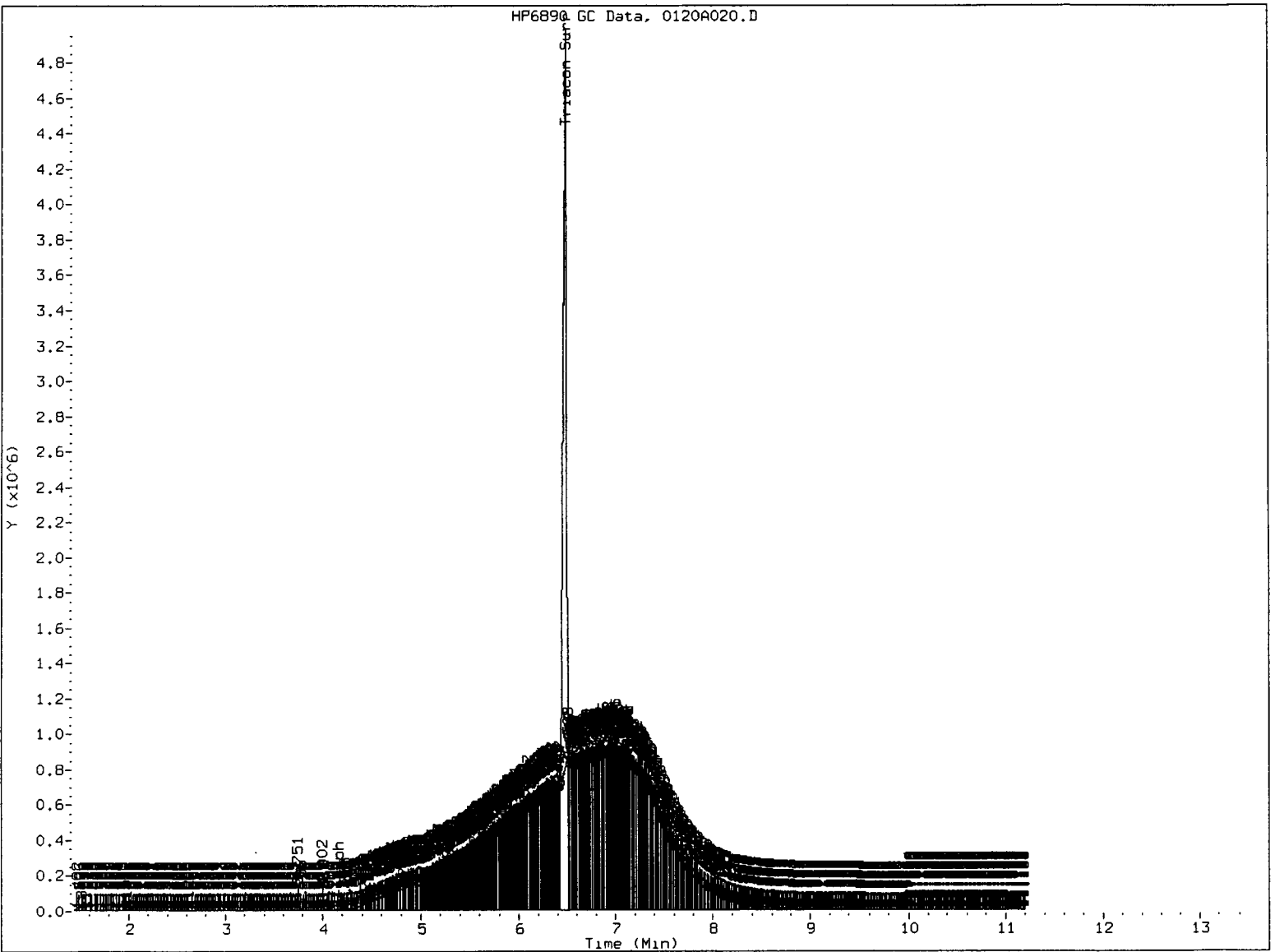
Column phase: RTX-1

Instrument: fid9.i

Operator: JR

Column diameter: 0.25





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: 4/3/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A021.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: MOIL ICV
Client ID:
Injection: 20-JAN-2011 21:12
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|--------|--------|-------------------|------------|----------------|
| Toluene | 1.324 | 0.022 | 44320 | 50117 | GAS (Tol-C12) | 136658 | 7 |
| C8 | 1.533 | 0.014 | 2616 | 2149 | DIESEL (C12-C24) | 538793 | 24 |
| C10 | 1.989 | 0.001 | 1562 | 1745 | M.OIL (C24-C38) | 5432551 | 410 <i>82%</i> |
| C12 | 2.609 | -0.013 | 390 | 355 | AK-102 (C10-C25) | 689107 | 27 |
| C14 | 3.156 | -0.001 | 155 | 99 | AK-103 (C25-C36) | 4380704 | 515 M |
| C16 | 3.626 | -0.001 | 82 | 12 | | | |
| C18 | 4.055 | 0.006 | 664 | 630 | | | |
| C20 | 4.438 | 0.003 | 3115 | 3440 | | | |
| C22 | 4.827 | -0.001 | 8284 | 2608 | | | |
| C24 | 5.325 | 0.001 | 15523 | 16382 | | | |
| C25 | 5.549 | 0.001 | 20595 | 10950 | | | |
| C26 | 5.747 | -0.002 | 24839 | 4923 | | | |
| C28 | 6.101 | -0.003 | 34160 | 7461 | | | |
| C32 | 6.696 | -0.001 | 53883 | 31547 | JP-4 (Tol-C14) | 142919 | 9 |
| C34 | 6.960 | 0.002 | 64809 | 30650 | BUNKERC (C10-C38) | 5992347 | 708 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.210 | 0.001 | 67841 | 12118 | | | |
| C38 | 7.448 | 0.000 | 64571 | 17929 | | | |
| C40 | 7.725 | 0.002 | 44664 | 18424 | | | |
| o-terph | 4.171 | 0.003 | 1796 | 1471 | JET-A (C10-C18) | 46651 | 3 |
| Triacon Surr | 6.416 | -0.005 | 466501 | 267769 | JP8 (Tol-C16) | 144649 | 8 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 1471 | 0.1 | 0.2 |
| Triacontane | 267769 | 15.2 | 33.8 |

Low bot Triacontane I.C.V. is not required.

| Analyte | RF | Curve Date |
|--------------|---------|--------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 8460.3 | 18-SEPT-2010 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110120.b/01200021.D

Date: 20-JAN-2011 21:12

Client ID:

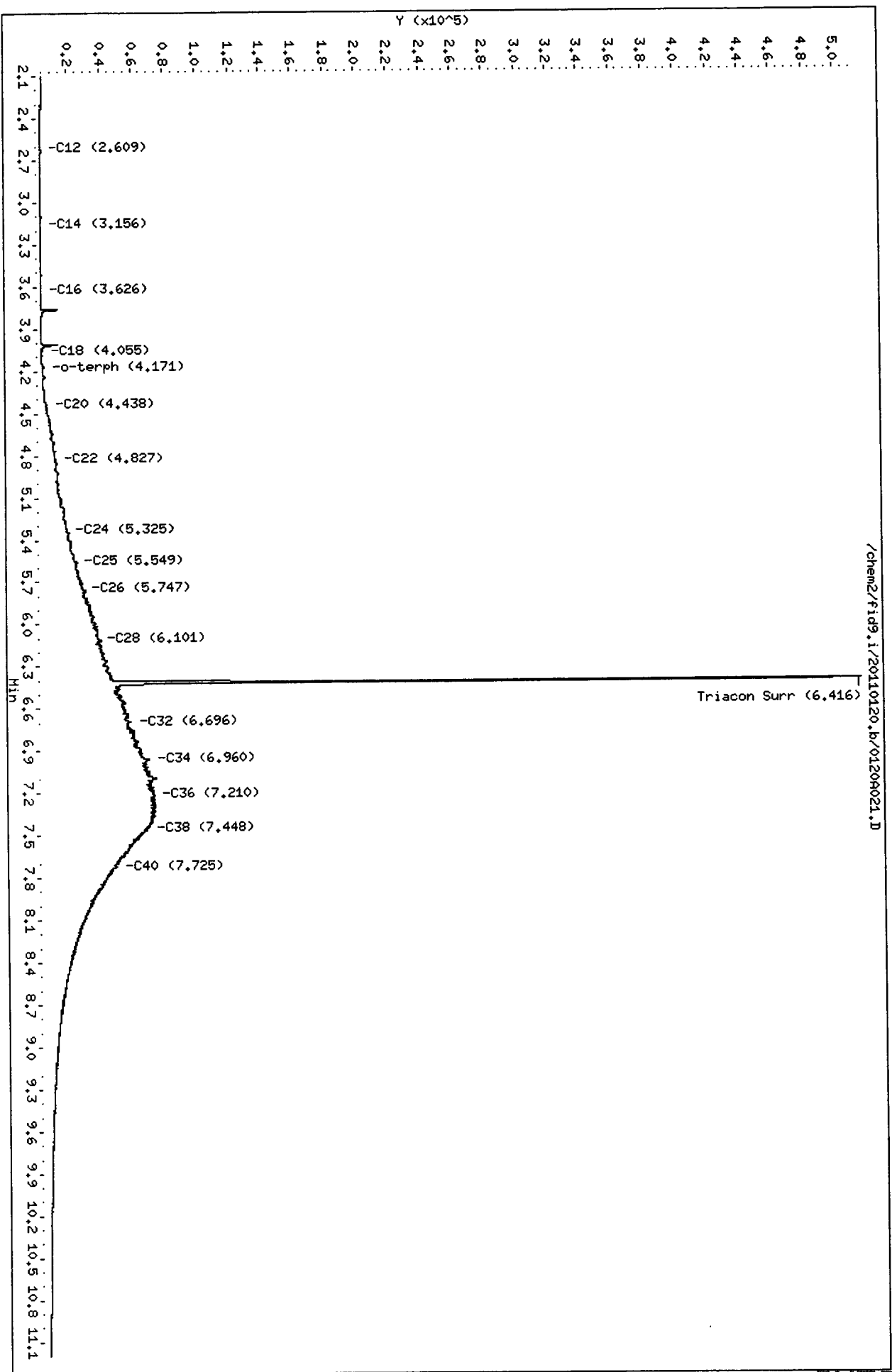
Sample Info: MOIL ICV

Column phase: RTX-1

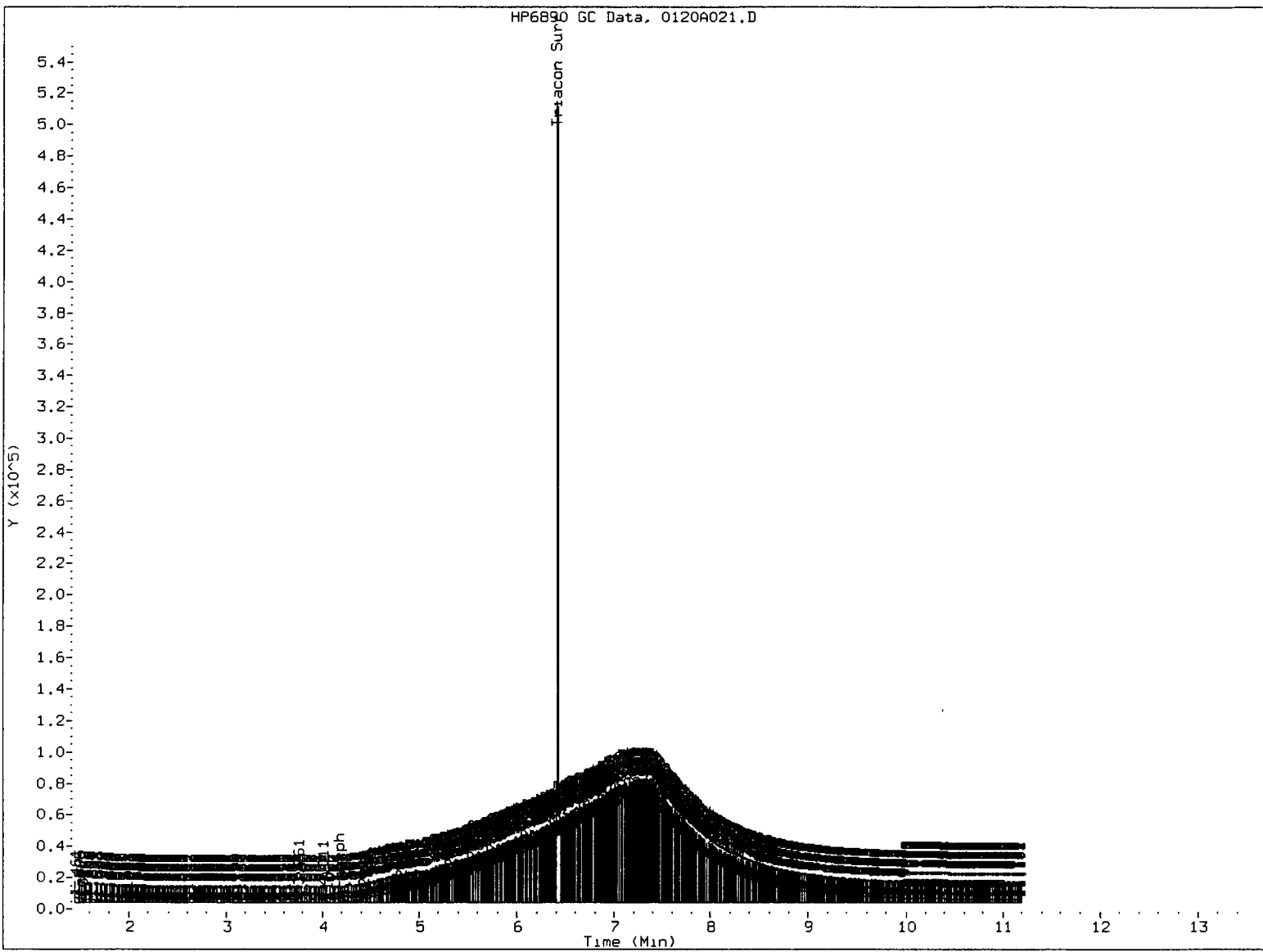
Instrument: fid9.i

Operator: JR

Column diameter: 0.25



HP6890 GC Data. 0120A021.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

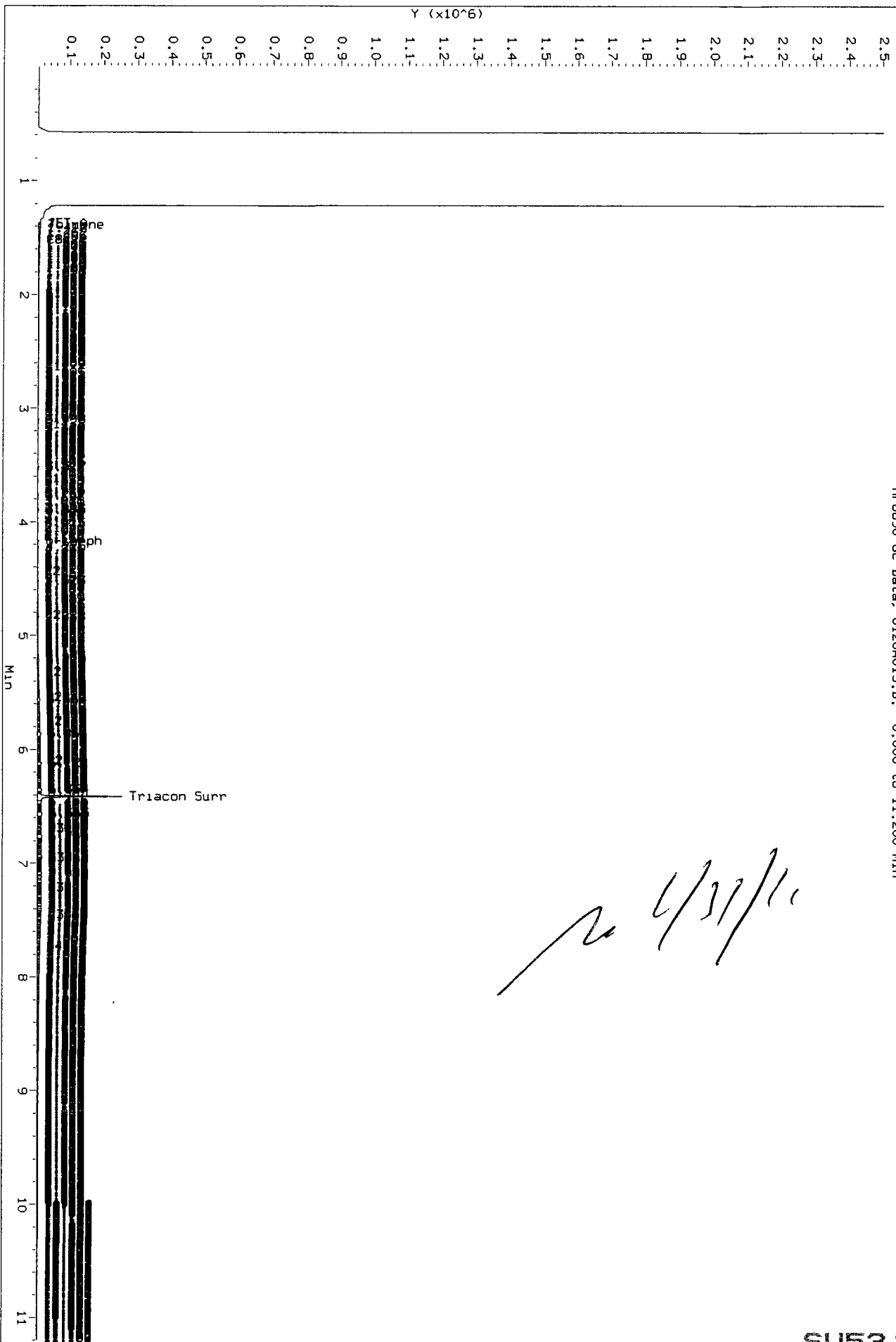
5. Other _____

Analyst:

Date:

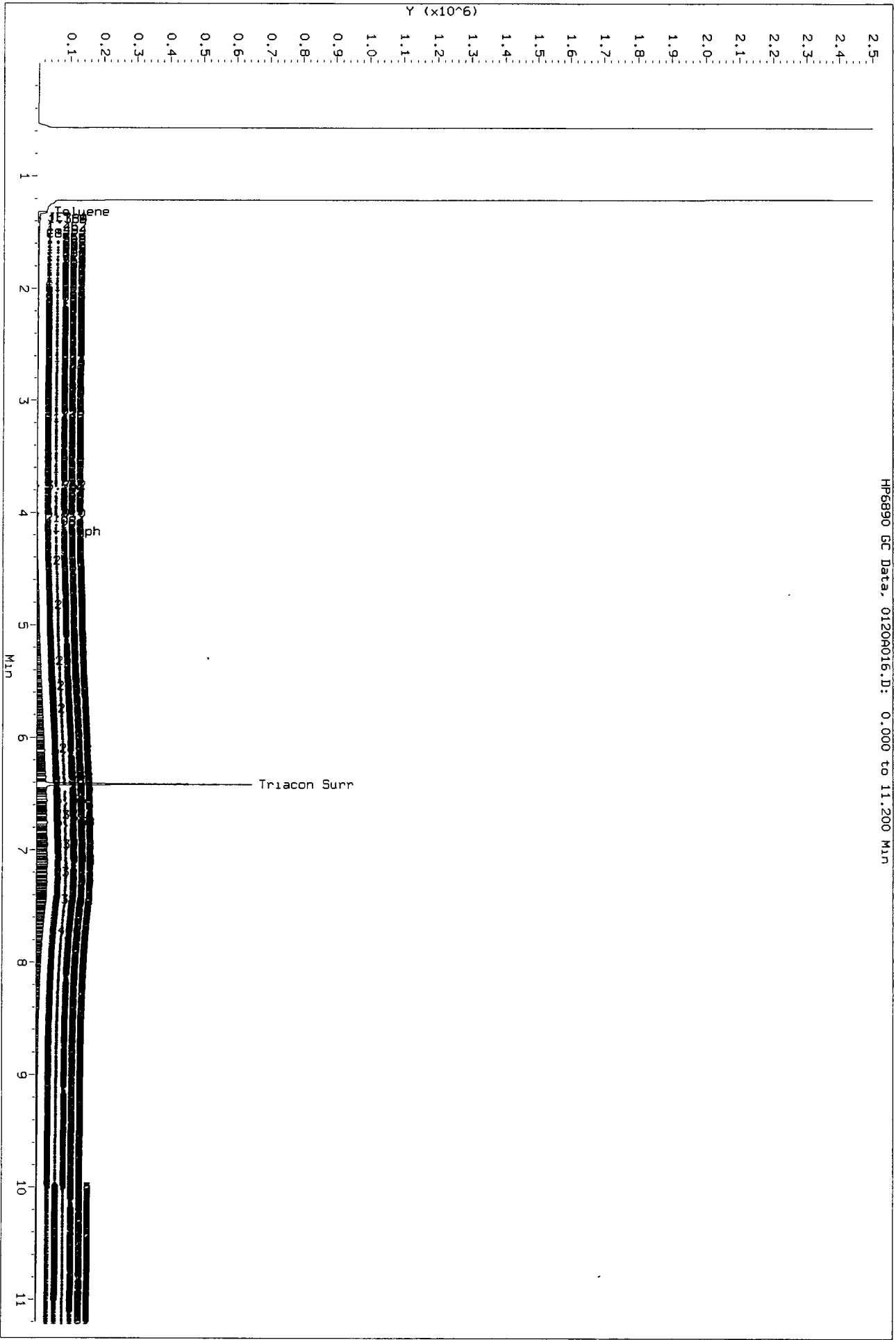
Data File: /chem2/fid9.1/20110120_b/0120A015.D
Injection Date: 20-JAN-2011 19:04
Instrument: fid9.1
Client Sample ID: MOIL 100

HP6890 GC Data, 0120A015.D: 0.000 to 11.200 Min



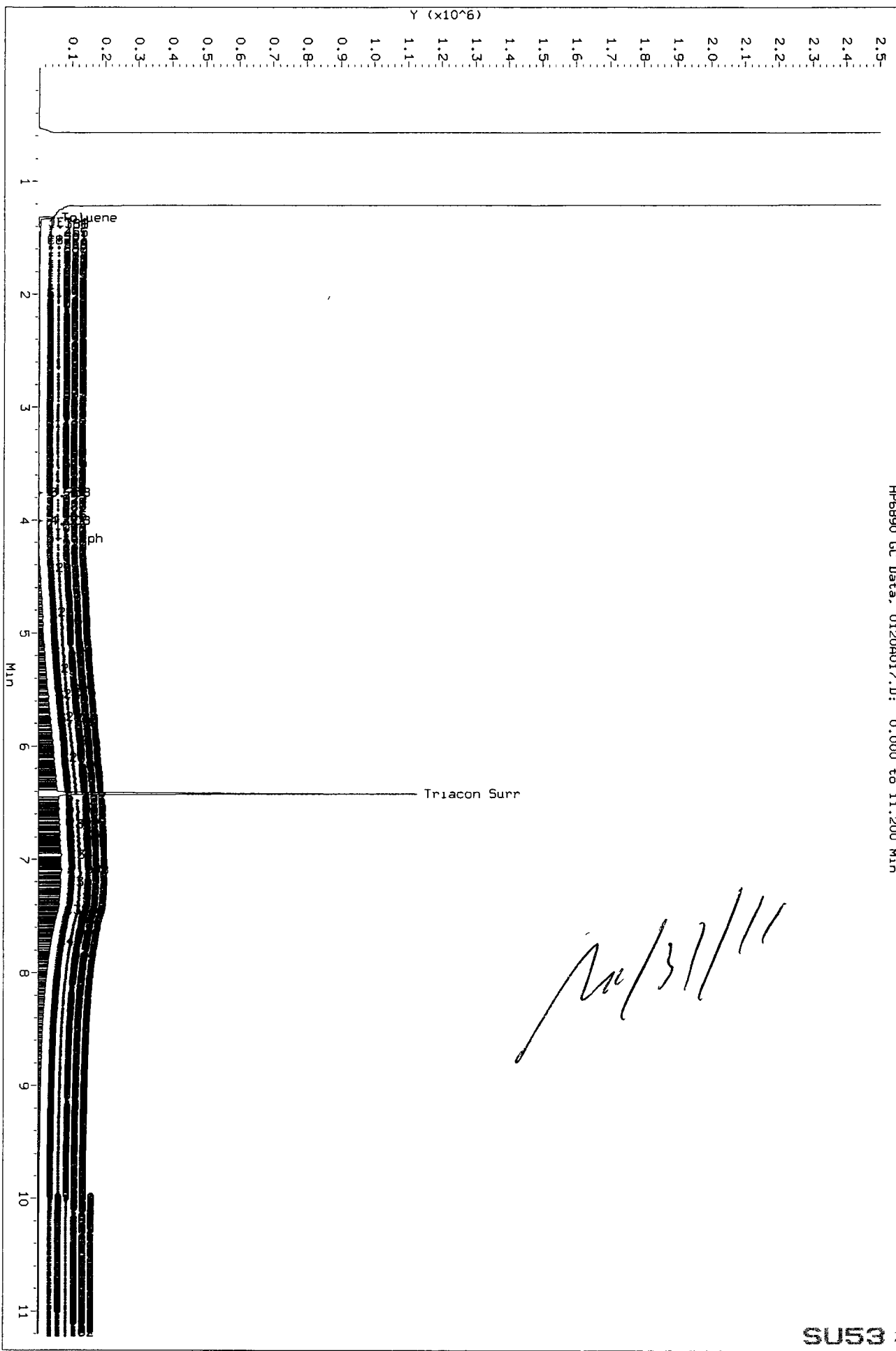
Data File: /chem2/fid9.1/20110120_b/01206016.D
Injection Date: 20-JAN-2011 19:26
Instrument: fid9.1
Client Sample ID: MOIL 250

HP6890 GC Data, 01206016.D: 0.000 to 11.200 Min



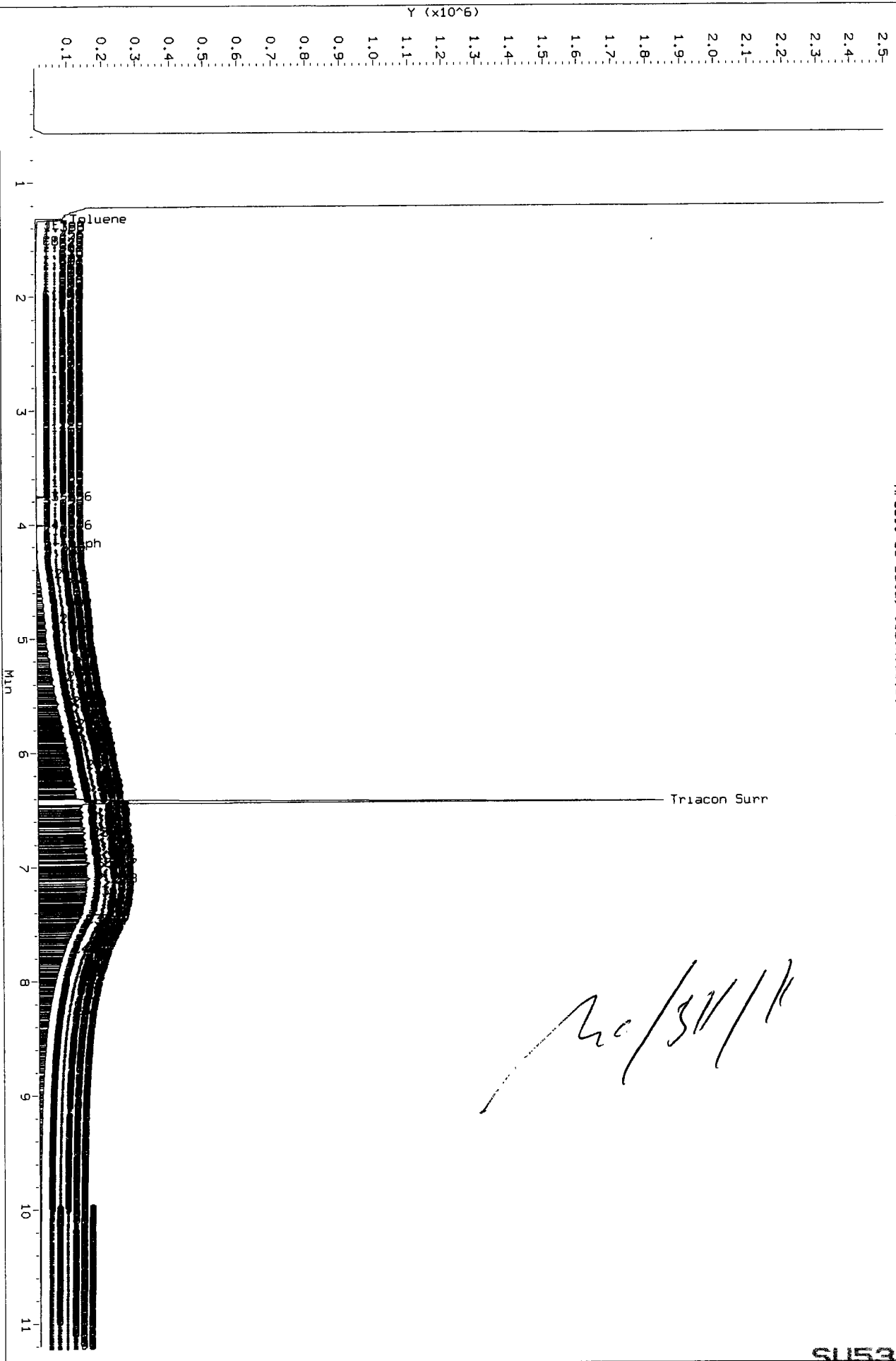
Data File: /chem2/fid9_1/20110120_b/0120A017.D
Injection Date: 20-JAN-2011 19:47
Instrument: fid9_1
Client Sample ID: MOIL 500

HP6890 GC Data, 0120A017.D: 0.000 to 11.200 Min



Data File: /chem2/fid9_1/20110120_b/01206018.D
Injection Date: 20-JAN-2011 20:08
Instrument: fid9_1
Client Sample ID: MOIL 1000

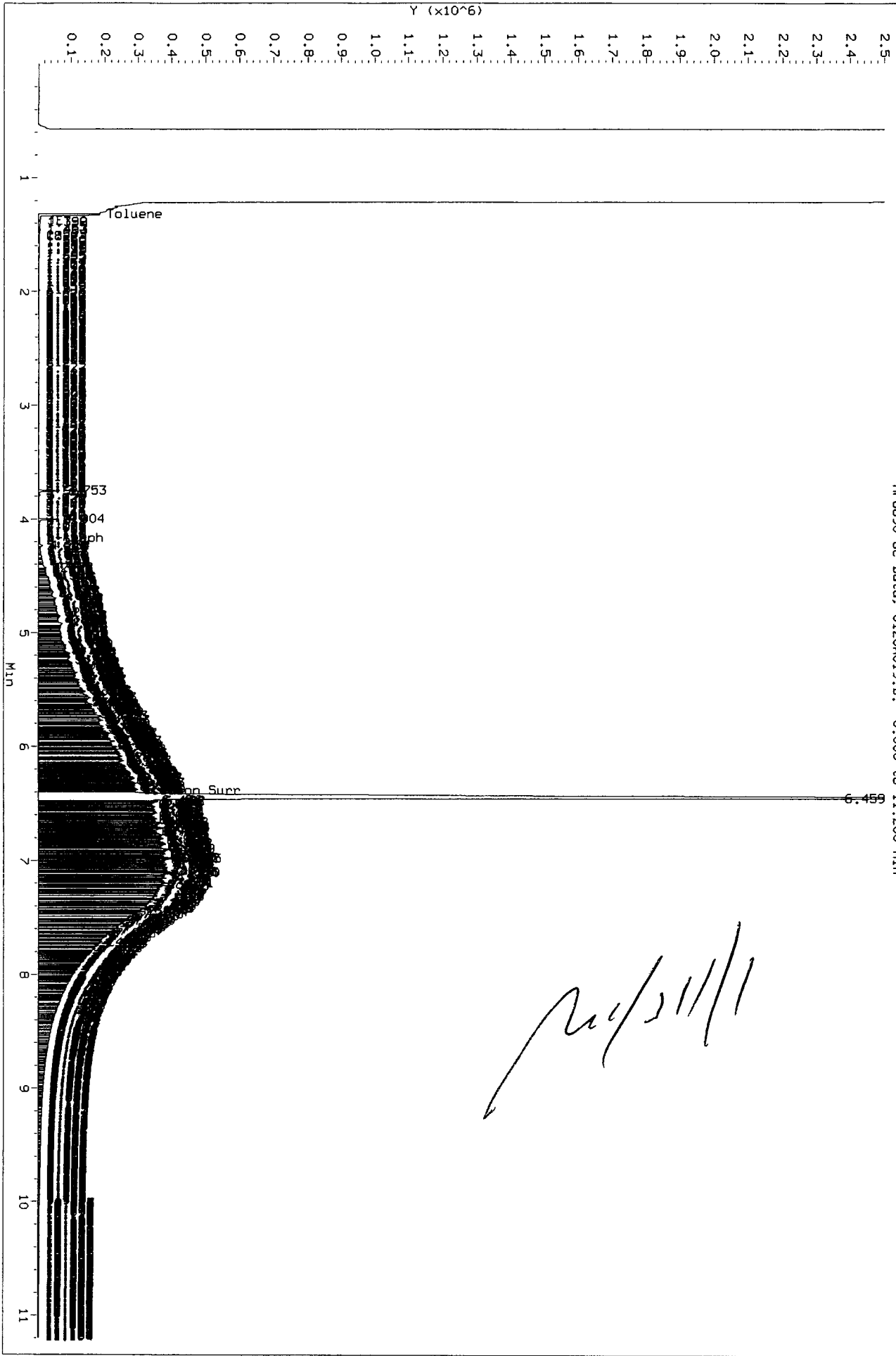
HP6890 GC Data, 01206018.D: 0.000 to 11.200 Min



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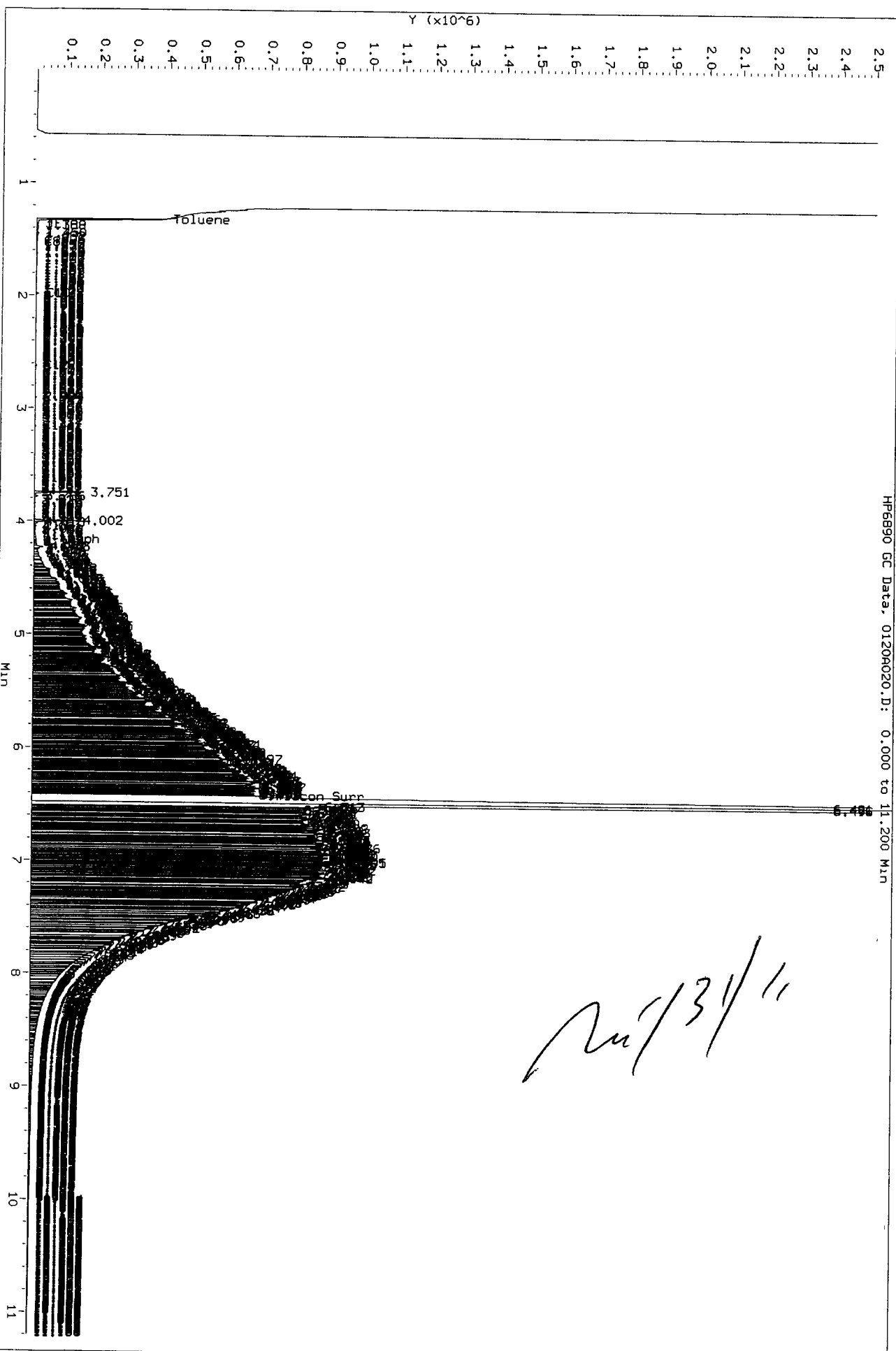
Data File: /chem2/f109_1/20110120_b/0120A019.D
Injection Date: 20-JAN-2011 20:30
Instrument: f109.1
Client Sample ID: MOIL 2500

HP6890 GC Data, 0120A019.D: 0.000 to 11.200 Min



Data File: /chem2/fid9.1/20110120_b/0120A020.D
Injection Date: 20-JAN-2011 20:51
Instrument: fid9.1
Client Sample ID: MOIL 5000

HP6890 GC Data, 0120A020.D: 0.000 to 11.200 Min



Run 34

TPHD Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: SU53, SU73, SU74



GC Analyst Notes / Corrective Action Log

ARI Project ID: SU53 Client ID: Floyd-Snyder

ARI SOP: 403S(PCB) 405S(Herb) ~~407S(TPH-D)~~ 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): Diesel, MOI, Graph.

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/20/11 Analysis Start: 5/5/11

| | | | |
|-----------------------------------|----------------------|----------------------------------|----------------------|
| Endrin/DDT Breakdown <15%? | YES / NO / <u>NA</u> | Method Blank In Control? | <u>YES</u> / NO |
| ICal Meets RF & %RSD Criteria? | <u>YES</u> / NO | LCS/LCSD Recovery In Control? | <u>YES</u> / NO |
| CCal Meets RF & %RSD Criteria? | <u>YES</u> / NO | Surrogate Recovery In Control? | <u>YES</u> / NO |
| Manual Integrations for ICal? | <u>YES</u> / NO | Manual Integrations for Samples? | <u>YES</u> / NO |
| Internal Standard Meets Criteria? | YES / NO / <u>NA</u> | Special Analysis Criteria Met? | YES / NO / <u>NA</u> |

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: MA Date: 5/9/11

Reviewer: [Signature] Date: 5/9/11

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 5/5/11 Analysis: NUPAD Analyst: [Signature]

GC Program: 1pk Column No: 979444 Column Type: [Signature]

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 1/28/11

| IS/SS | Ical/Ccal | LCS/ICV |
|-------|-----------|---------|
| / | AP6-1 | / |
| / | 207-2 | / |
| / | 222-3 | / |
| / | 208-2 | / |

| Inject | Date/Time | Filename | DF | LabID |
|--------|-------------------|------------|----|------------|
| 1 | 05-MAY-2011 10:26 | 0505A001.D | 1 | RINSE |
| 2 | 05-MAY-2011 10:47 | 0505A002.D | 1 | RT |
| 3 | 05-MAY-2011 11:09 | 0505A003.D | 1 | IB |
| 4 | 05-MAY-2011 11:31 | 0505A004.D | 1 | DIESEL#1 |
| 5 | 05-MAY-2011 11:52 | 0505A005.D | 1 | MOIL#1 |
| 6 | 05-MAY-2011 13:58 | 0505A006.D | 1 | SU96A |
| 7 | 05-MAY-2011 14:20 | 0505A007.D | 1 | SU96B |
| 8 | 05-MAY-2011 14:42 | 0505A008.D | 1 | SV05A |
| 9 | 05-MAY-2011 15:04 | 0505A009.D | 1 | SV05B |
| 10 | 05-MAY-2011 15:25 | 0505A010.D | 1 | SU96LCSS1 |
| 11 | 05-MAY-2011 15:47 | 0505A011.D | 1 | SU96LCSDS1 |
| 12 | 05-MAY-2011 16:09 | 0505A012.D | 1 | SU96MBS1 |
| 13 | 05-MAY-2011 16:31 | 0505A013.D | 1 | DIESEL#2 |
| 14 | 05-MAY-2011 16:53 | 0505A014.D | 1 | MOIL#2 |

[Large handwritten scribble/signature]

Maintenance / Comments

Run Run continues on next page. 5/5/11

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 5/5/11 Analysis: NNVTPH0 Analyst: ms

GC Program: TPH Column No: 977444 Column Type: RFX-1

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 1/20/11

| IS/SS | Ical/Ccal | LCS/ICV |
|------------------|---------------|------------------|
| _____ | <u>1786-1</u> | _____ |
| _____ | <u>175-2</u> | _____ |
| _____ | <u>1777-3</u> | _____ |
| _____ | <u>1755-2</u> | _____ |

| Inject | Date/Time | Filename | DF | LabID |
|--------|-------------------|------------|----|-----------|
| 1 | 05-MAY-2011 17:15 | 0505A015.D | 1 | SU53MBW1 |
| 2 | 05-MAY-2011 17:36 | 0505A016.D | 1 | SU53LCSW1 |
| 3 | 05-MAY-2011 17:58 | 0505A017.D | 1 | SU53QLS |
| 4 | 05-MAY-2011 18:20 | 0505A018.D | 1 | SU53A |
| 5 | 05-MAY-2011 18:42 | 0505A019.D | 1 | SU53AMS |
| 6 | 05-MAY-2011 19:03 | 0505A020.D | 1 | SU53AMSD |
| 7 | 05-MAY-2011 19:25 | 0505A021.D | 1 | SU53B |
| 8 | 05-MAY-2011 19:47 | 0505A022.D | 1 | SU53C |
| 9 | 05-MAY-2011 20:09 | 0505A023.D | 1 | SU53D |
| 10 | 05-MAY-2011 20:30 | 0505A024.D | 1 | SU53E |
| 11 | 05-MAY-2011 20:52 | 0505A025.D | 1 | SU53F |
| 12 | 05-MAY-2011 21:14 | 0505A026.D | 1 | DIESEL#3 |
| 13 | 05-MAY-2011 21:35 | 0505A027.D | 1 | MOIL#3 |

[Large handwritten scribbles and signatures covering the middle section of the page]

ms
5/4/11

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20110505.b
ARI Job No.: SU53 Method: ftphfid9a.m Instrument: fid9.i Date: 05-MAY-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

1715 0505A015.D SU53MBW1 SU53MBW1 1 NO MANUAL INTEGRATION

1736 0505A016.D SU53LGSW1 SU53LGSW1 1 o-terph,

1820 0505A018.D SU53A MW5042811 1 NO MANUAL INTEGRATION

1842 0505A019.D SU53AMS MW5042811 1 o-terph,

1903 0505A020.D SU53AMS MW5042811 1 o-terph,

1925 0505A021.D SU53B MW15042811 1 NO MANUAL INTEGRATION

1947 0505A022.D SU53C MW4042811 1 NO MANUAL INTEGRATION

2009 0505A023.D SU53D MW17042811 1 NO MANUAL INTEGRATION

2030 0505A024.D SU53E MW14042811 1 NO MANUAL INTEGRATION

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A002.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: RT
Client ID: RT
Injection: 05-MAY-2011 10:47
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|-------|--------|--------|-------------------|------------|--------|
| Toluene | 1.600 | 0.000 | 626 | 639 | GAS (Tol-C12) | 375667 | 17.88 |
| C8 | 1.271 | 0.000 | 176377 | 132802 | DIESEL (C12-C24) | 1196332 | 52.81 |
| C10 | 1.975 | 0.000 | 322954 | 177583 | M.OIL (C24-C38) | 1576731 | 118.88 |
| C12 | 2.620 | 0.000 | 151556 | 167731 | AK-102 (C10-C25) | 1562055 | 61.19 |
| C14 | 3.157 | 0.000 | 183885 | 158682 | AK-103 (C25-C36) | 1420179 | 167.12 |
| C16 | 3.621 | 0.000 | 217787 | 170805 | | | |
| C18 | 4.035 | 0.000 | 284566 | 168245 | | | |
| C20 | 4.424 | 0.000 | 306896 | 177310 | | | |
| C22 | 4.812 | 0.000 | 276612 | 184813 | | | |
| C24 | 5.308 | 0.000 | 276846 | 192004 | | | |
| C25 | 5.532 | 0.000 | 411216 | 280837 | | | |
| C26 | 5.733 | 0.000 | 314429 | 200396 | | | |
| C28 | 6.088 | 0.000 | 360531 | 223269 | | | |
| C32 | 6.679 | 0.000 | 340316 | 205074 | JP-4 (Tol-C14) | 564557 | 34.43 |
| C34 | 6.941 | 0.000 | 301944 | 192468 | BUNKERC (C10-C38) | 3137774 | 421.49 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.191 | 0.000 | 261860 | 165658 | | | |
| C38 | 7.431 | 0.000 | 168674 | 116133 | | | |
| C40 | 7.700 | 0.000 | 43252 | 51582 | | | |
| o-terph | 4.151 | 0.000 | 947038 | 585113 | JET-A (C10-C18) | 940544 | 68.06 |
| Triacon Surr | 6.406 | 0.000 | 965511 | 636115 | JP8 (Tol-C16) | 760120 | 43.20 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 585113 | 27.3 | 60.7 |
| Triacontane | 636115 | 36.1 | 80.2 |

MS 5/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505R002.D
Date: 05-MAY-2011 10:47
Client ID: RT
Sample Info: RT

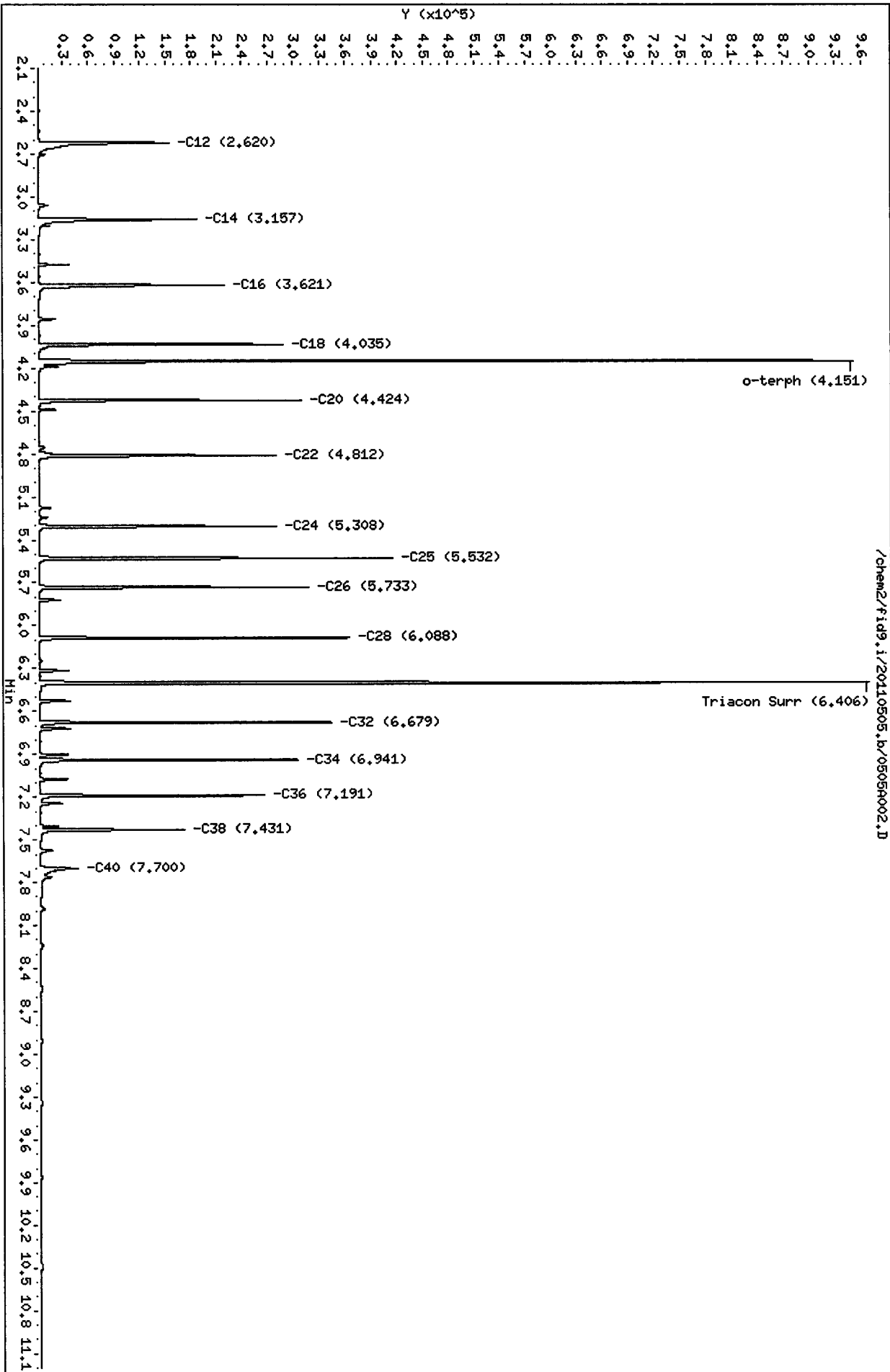
Instrument: fid9.i

Page 1

Column phase: RTX-1

Operator: MS
Column diameter: 0.25

/chem2/fid9.i/20110505.b/0505R002.D



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A003.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: IB
Client ID: IB
Injection: 05-MAY-2011 11:09
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.597 | -0.002 | 774 | 331 | GAS (Tol-C12) | 29430 | 1.40 |
| C8 | ---- | | | | DIESEL (C12-C24) | 83446 | 3.68 |
| C10 | 1.983 | 0.009 | 1509 | 1397 | M.OIL (C24-C38) | 330060 | 24.88 |
| C12 | 2.594 | -0.026 | 3731 | 5835 | AK-102 (C10-C25) | 101673 | 3.98 |
| C14 | 3.156 | -0.001 | 369 | 401 | AK-103 (C25-C36) | 307584 | 36.19 |
| C16 | 3.623 | 0.003 | 238 | 149 | | | |
| C18 | 4.036 | 0.001 | 226 | 130 | | | |
| C20 | 4.428 | 0.004 | 369 | 319 | | | |
| C22 | 4.804 | -0.008 | 4499 | 4675 | | | |
| C24 | 5.313 | 0.005 | 625 | 550 | | | |
| C25 | 5.521 | -0.011 | 14006 | 9337 | | | |
| C26 | 5.726 | -0.007 | 55 | 37 | | | |
| C28 | 6.081 | -0.007 | 41767 | 30927 | | | |
| C32 | 6.673 | -0.006 | 660 | 759 | JP-4 (Tol-C14) | 49750 | 3.03 |
| C34 | 6.955 | 0.014 | 438 | 355 | BUNKERC (C10-C38) | 431157 | 57.92 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.184 | -0.007 | 470 | 102 | | | |
| C38 | 7.443 | 0.013 | 537 | 386 | | | |
| C40 | 7.692 | -0.007 | 559 | 360 | | | |
| o-terph | 4.152 | 0.001 | 1254565 | 838659 | JET-A (C10-C18) | 59099 | 4.28 |
| Triacon Surr | 6.406 | 0.001 | 1106447 | 748737 | JP8 (Tol-C16) | 63006 | 3.58 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 838659 | 39.2 | 87.0 |
| Triacontane | 748737 | 42.5 | 94.4 |

MS 5/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

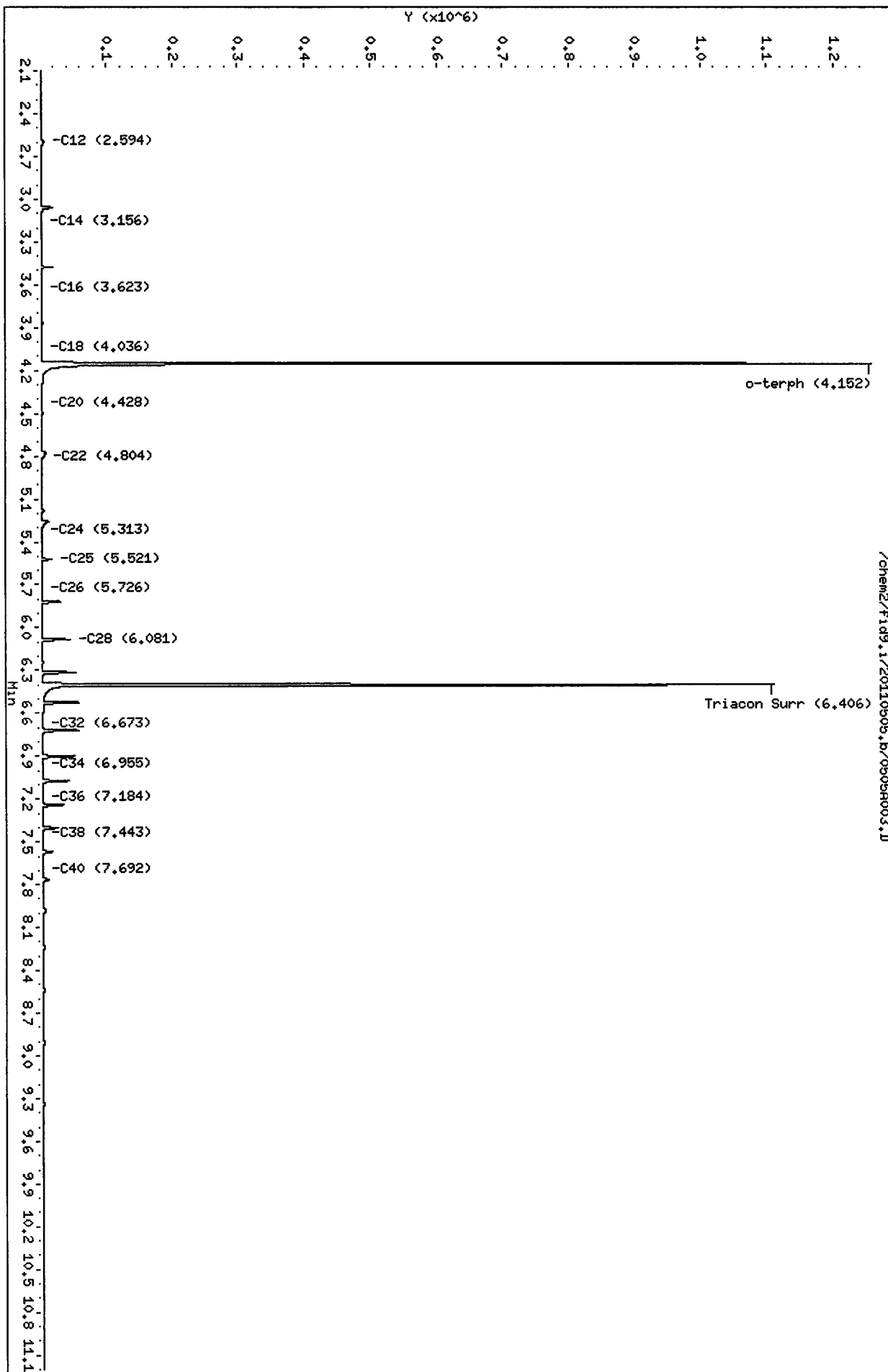
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Date: 05-MAY-2011 11:09
Client ID: IB
Sample Info: IB

Column phase: RTX-1

/chem2/fid9.i/20110505.b/05050003.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25

Page 1



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A013.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: DIESEL#2
Client ID: LORA LAKES APT. RI
Injection: 05-MAY-2011 16:31
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.619 | 0.019 | 10169 | 15899 | GAS (Tol-C12) | 784878 | 37.36 |
| C8 | 1.324 | 0.053 | 3072 | 1345 | DIESEL (C12-C24) | 5690895 | 251.22 |
| C10 | 1.979 | 0.005 | 28122 | 25232 | M.OIL (C24-C38) | 170722 | 12.87 |
| C12 | 2.621 | 0.001 | 65505 | 52666 | AK-102 (C10-C25) | 6337542 | 248.28 M |
| C14 | 3.150 | -0.007 | 141354 | 103460 | AK-103 (C25-C36) | 137436 | 16.17 |
| C16 | 3.617 | -0.004 | 291699 | 162669 | | | |
| C18 | 4.037 | 0.002 | 256189 | 176251 | | | |
| C20 | 4.425 | 0.001 | 150694 | 105151 | | | |
| C22 | 4.814 | 0.002 | 56231 | 58753 | | | |
| C24 | 5.313 | 0.005 | 11440 | 17726 | | | |
| C25 | 5.527 | -0.005 | 14021 | 12514 | | | |
| C26 | 5.730 | -0.003 | 1218 | 580 | | | |
| C28 | 6.087 | -0.001 | 18771 | 13306 | | | |
| C32 | 6.685 | 0.006 | 50 | 38 | JP-4 (Tol-C14) | 1721197 | 104.97 |
| C34 | 6.951 | 0.010 | 32 | 11 | BUNKERC (C10-C38) | 6486064 | 871.27 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.196 | 0.004 | 67 | 31 | | | |
| C38 | 7.421 | -0.010 | 5842 | 4305 | | | |
| C40 | 7.701 | 0.002 | 454 | 597 | | | |
| o-terph | 4.157 | 0.006 | 1687284 | 971488 | JET-A (C10-C18) | 4573912 | 330.99 |
| Triacon Surr | 6.403 | -0.002 | 134 | 23 | JP8 (Tol-C16) | 3167142 | 180.01 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 971488 | 45.4 | 100.8 |
| Triacontane | 23 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/05050013.D

Date : 05-MAY-2011 16:31

Client ID: LORA LAKES APT, RI

Sample Info: DIESEL#2

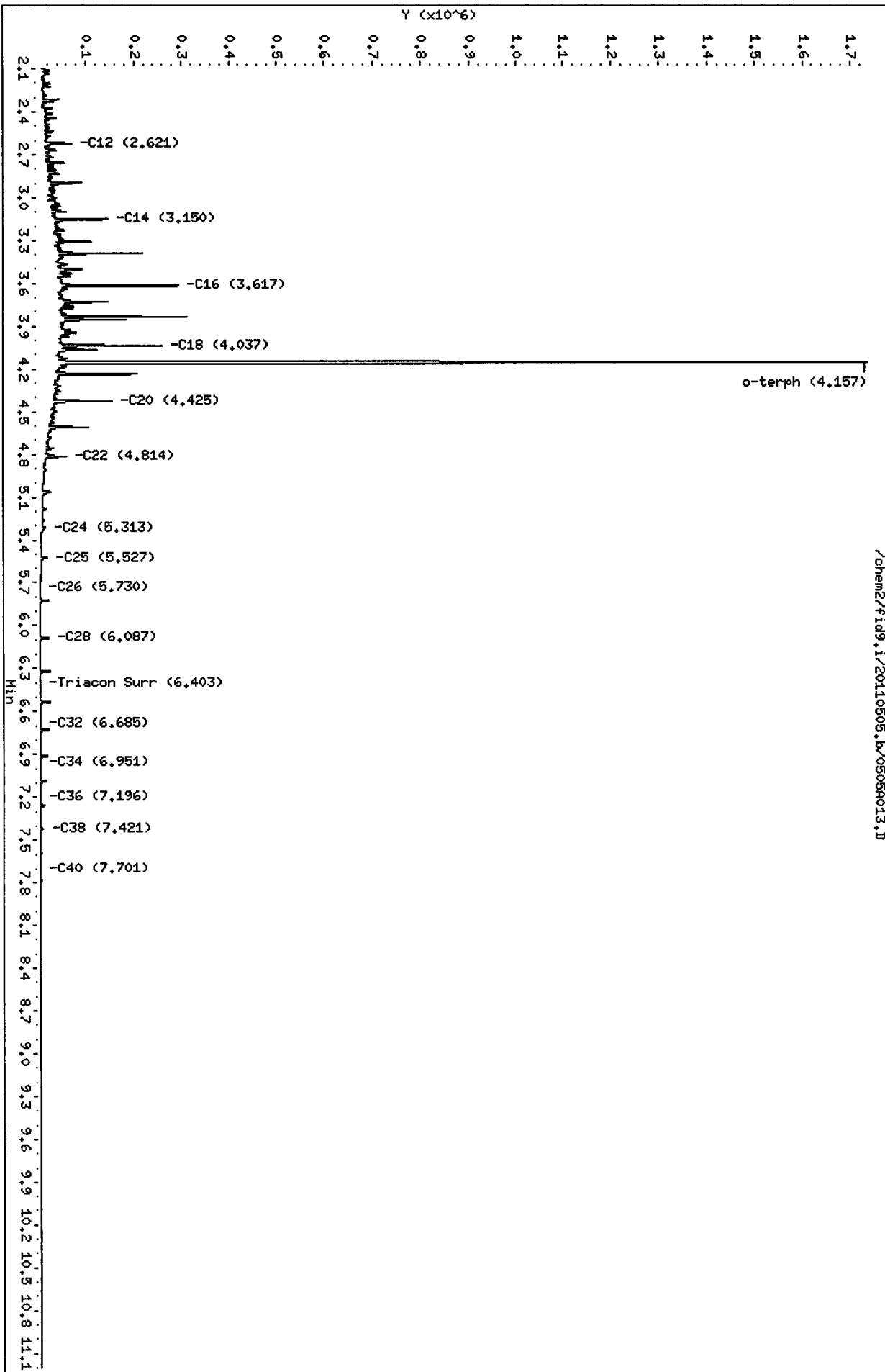
Column phase: RTX-1

Instrument: fid9.i

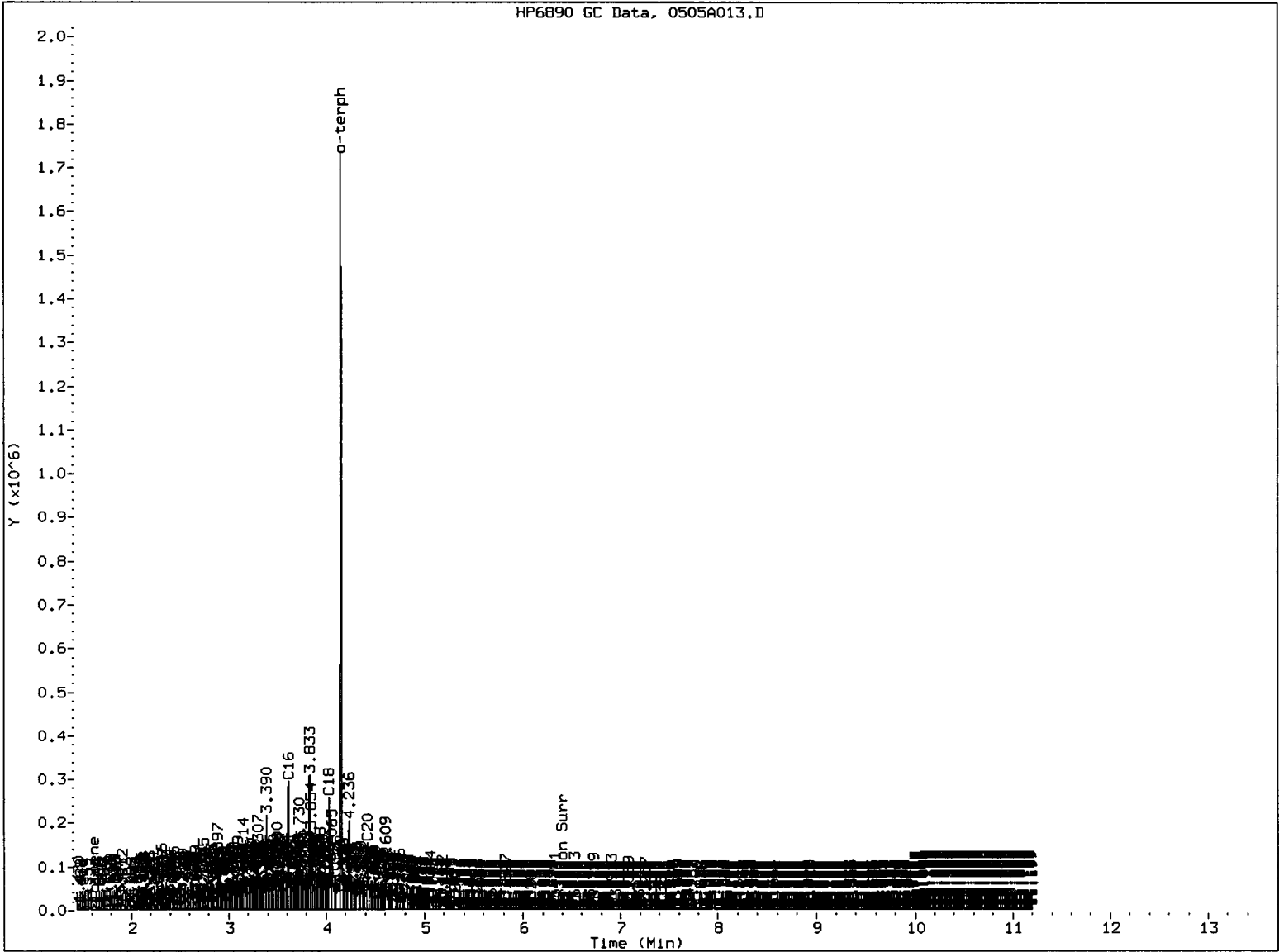
Operator: NS

Column diameter: 0.25

/chem2/fid9.i/20110505.b/05050013.D



HP6890 GC Data, 0505A013.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MS Date: 5/9/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A014.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: MOIL#2
 Client ID: LORA LAKES APT. RI
 Injection: 05-MAY-2011 16:53
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.597 | -0.003 | 688 | 440 | GAS (Tol-C12) | 18435 | 0.88 |
| C8 | 1.356 | 0.085 | 2500 | 1929 | DIESEL (C12-C24) | 857688 | 37.86 |
| C10 | 1.982 | 0.008 | 1248 | 1254 | M.OIL (C24-C38) | 6546657 | 493.58 |
| C12 | 2.598 | -0.022 | 1724 | 2049 | AK-102 (C10-C25) | 1063619 | 41.67 |
| C14 | 3.155 | -0.002 | 67 | 36 | AK-103 (C25-C36) | 5938010 | 698.74 M |
| C16 | 3.633 | 0.013 | 51 | 19 | | | |
| C18 | 4.049 | 0.014 | 432 | 149 | | | |
| C20 | 4.424 | 0.000 | 5141 | 4855 | | | |
| C22 | 4.810 | -0.002 | 13067 | 3335 | | | |
| C24 | 5.303 | -0.005 | 25694 | 19541 | | | |
| C25 | 5.533 | 0.001 | 35515 | 11023 | | | |
| C26 | 5.738 | 0.004 | 44633 | 22206 | | | |
| C28 | 6.082 | -0.006 | 71078 | 72954 | | | |
| C32 | 6.680 | 0.000 | 75622 | 49785 | JP-4 (Tol-C14) | 24619 | 1.50 |
| C34 | 6.941 | 0.000 | 62709 | 18566 | BUNKERC (C10-C38) | 7412807 | 995.76 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.187 | -0.004 | 44512 | 29472 | | | |
| C38 | 7.427 | -0.004 | 24011 | 20727 | | | |
| C40 | 7.699 | -0.001 | 9651 | 7574 | | | |
| o-terph | 4.143 | -0.008 | 728 | 664 | JET-A (C10-C18) | 42271 | 3.06 |
| Triacon Surr | 6.415 | 0.009 | 1306524 | 976210 | JP8 (Tol-C16) | 28569 | 1.62 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 664 | 0.0 | 0.1 |
| Triacotane | 976210 | 55.4 | 123.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505q014.D

Date: 05-MAY-2011 16:53

Client ID: LORA LAKES APT. RI

Sample Info: M01L#2

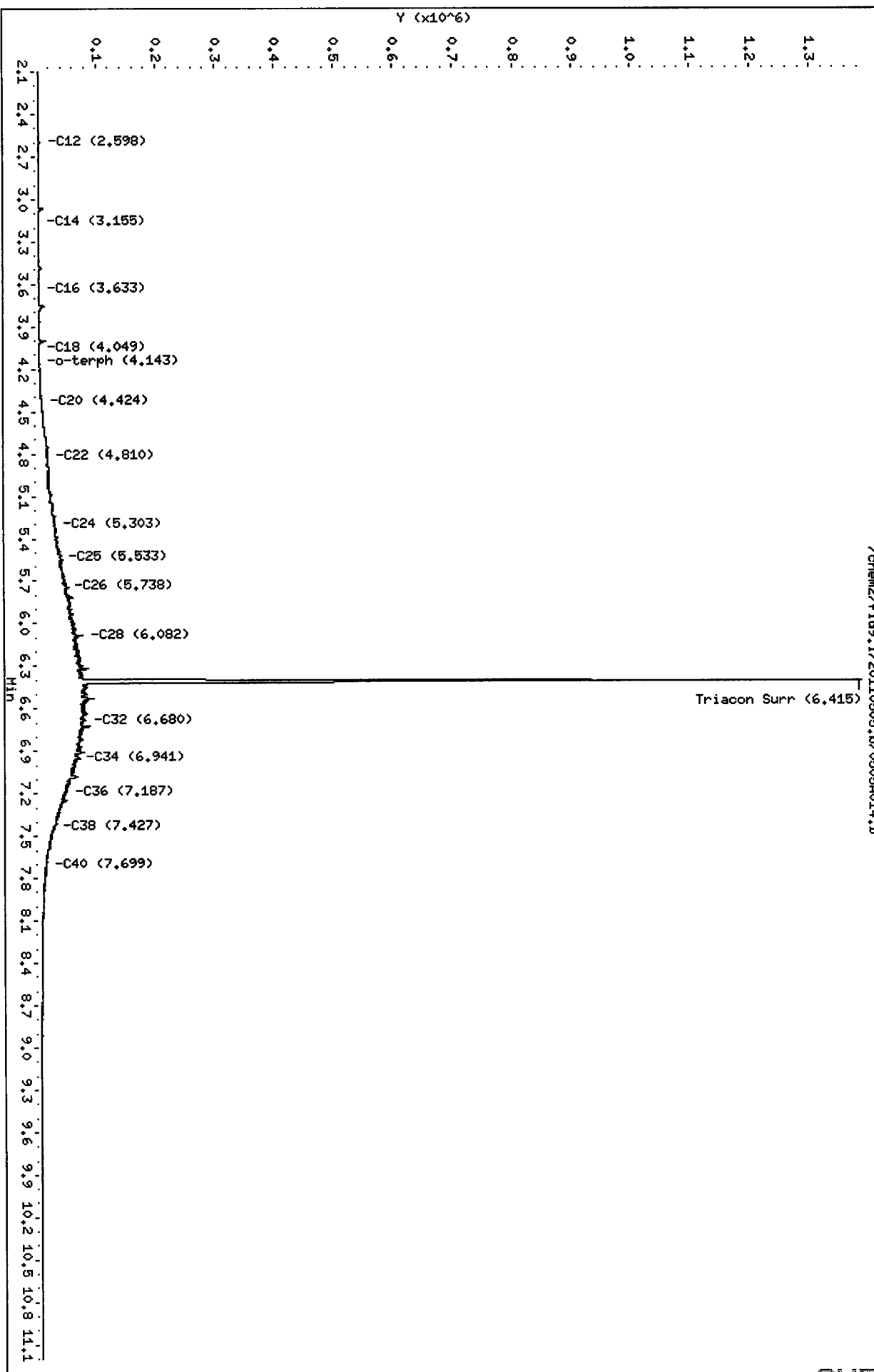
Column phase: RTX-1

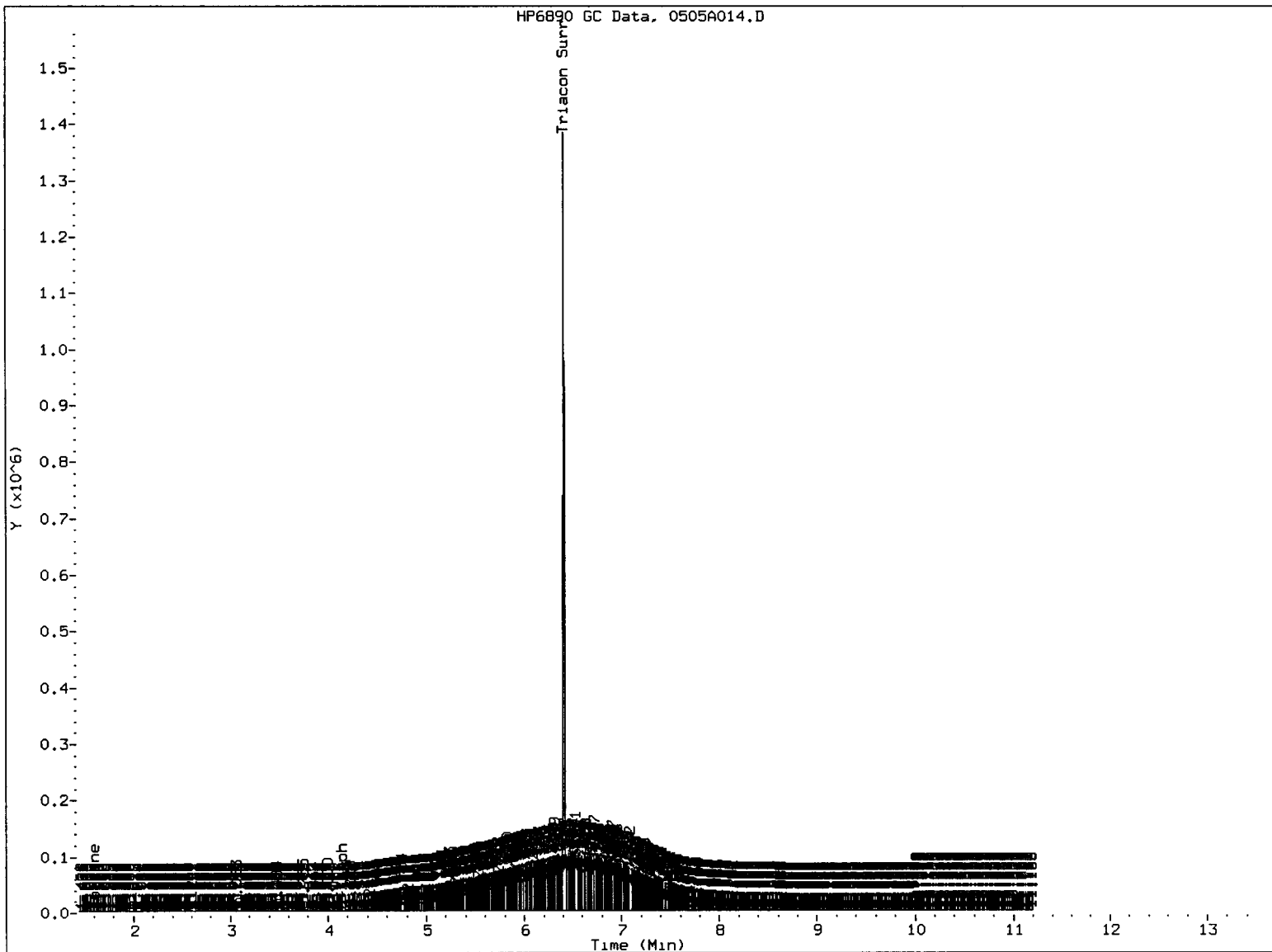
Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110505.b/0505q014.D





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]* Date: 5/5/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A015.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: SU53MBW1
Client ID: SU53MBW1
Injection: 05-MAY-2011 17:15
Dilution Factor: 1
Macro: 15-FEB-2011

| FID:9 RESULTS | | | | | | | |
|---------------|-------|--------|---------|--------|-------------------|------------|-------|
| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
| Toluene | 1.595 | -0.004 | 1166 | 436 | GAS (Tol-C12) | 38953 | 1.85 |
| C8 | ---- | | | | DIESEL (C12-C24) | 39351 | 1.74 |
| C10 | 1.982 | 0.008 | 1497 | 1551 | M.OIL (C24-C38) | 50556 | 3.81 |
| C12 | 2.618 | -0.002 | 529 | 1281 | AK-102 (C10-C25) | 58189 | 2.28 |
| C14 | 3.154 | -0.003 | 334 | 365 | AK-103 (C25-C36) | 43099 | 5.07 |
| C16 | 3.616 | -0.004 | 526 | 529 | | | |
| C18 | 4.026 | -0.009 | 410 | 385 | | | |
| C20 | 4.431 | 0.007 | 275 | 176 | | | |
| C22 | 4.810 | -0.002 | 246 | 270 | | | |
| C24 | 5.310 | 0.002 | 80 | 25 | | | |
| C25 | 5.523 | -0.009 | 283 | 184 | | | |
| C26 | 5.738 | 0.005 | 37 | 14 | | | |
| C28 | 6.092 | 0.004 | 4255 | 2604 | | | |
| C32 | 6.671 | -0.008 | 608 | 392 | JP-4 (Tol-C14) | 47778 | 2.91 |
| C34 | 6.942 | 0.001 | 441 | 232 | BUNKERC (C10-C38) | 108526 | 14.58 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.194 | 0.003 | 415 | 277 | | | |
| C38 | 7.430 | -0.001 | 477 | 196 | | | |
| C40 | 7.693 | -0.007 | 530 | 489 | | | |
| o-terph | 4.153 | 0.002 | 1322022 | 878347 | JET-A (C10-C18) | 44232 | 3.20 |
| Triacon Surr | 6.405 | 0.000 | 1117865 | 823675 | JP8 (Tol-C16) | 58161 | 3.31 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 878347 | 41.0 | 91.1 |
| Triacontane | 823675 | 46.7 | 103.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

ms 5/9/11

Data File: /chem2/fid9.i/20110505.b/0505A015.D

Date: 05-MAY-2011 17:15

Client ID: SUS3MBM4

Sample Info: SUS3MBM4

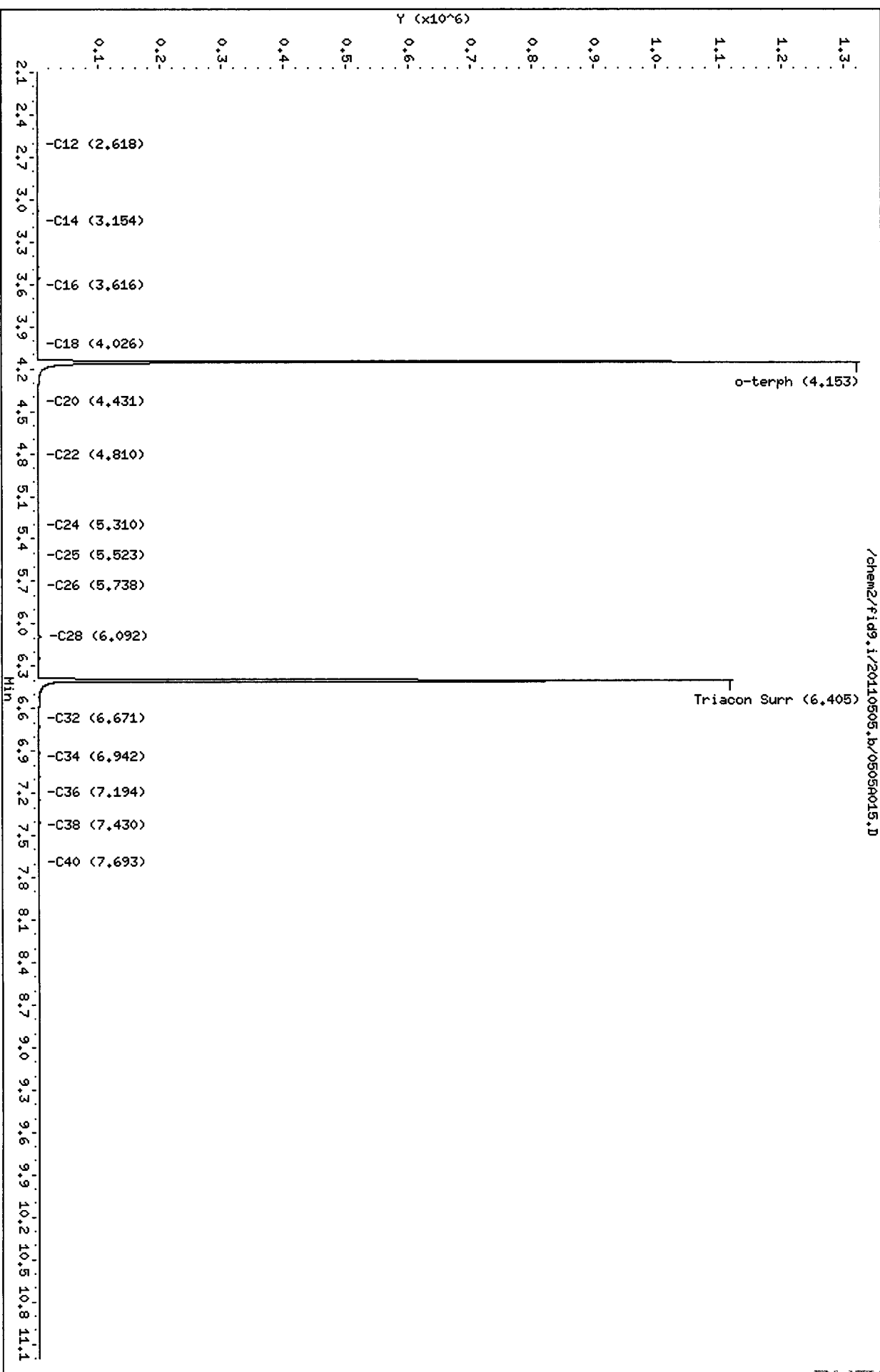
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110505.b/0505A015.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A016.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: SU53LCSW1
 Client ID: SU53LCSW1
 Injection: 05-MAY-2011 17:36
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|---------|
| Toluene | 1.612 | 0.012 | 37535 | 29781 | GAS (Tol-C12) | 3106111 | 147.84 |
| C8 | 1.327 | 0.056 | 3970 | 3621 | DIESEL (C12-C24) | 30151794 | 1331.02 |
| C10 | 1.973 | -0.001 | 105913 | 95951 | M.OIL (C24-C38) | 418927 | 31.58 |
| C12 | 2.628 | 0.008 | 95682 | 68106 | AK-102 (C10-C25) | 32829511 | 1286.12 |
| C14 | 3.147 | -0.010 | 682731 | 666713 | AK-103 (C25-C36) | 287250 | 33.80 |
| C16 | 3.621 | 0.001 | 1259665 | 1301172 | | | |
| C18 | 4.048 | 0.012 | 1152602 | 1014865 | | | |
| C20 | 4.430 | 0.006 | 800386 | 621925 | | | |
| C22 | 4.817 | 0.005 | 314882 | 274697 | | | |
| C24 | 5.306 | -0.002 | 94190 | 89253 | | | |
| C25 | 5.530 | -0.003 | 45292 | 43717 | | | |
| C26 | 5.732 | -0.001 | 18320 | 17915 | | | |
| C28 | 6.089 | 0.001 | 4394 | 4553 | | | |
| C32 | 6.677 | -0.003 | 441 | 367 | JP-4 (Tol-C14) | 7882395 | 480.74 |
| C34 | 6.938 | -0.004 | 223 | 109 | BUNKERC (C10-C38) | 33120181 | 4449.01 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.188 | -0.003 | 179 | 34 | | | |
| C38 | 7.437 | 0.006 | 161 | 49 | | | |
| C40 | 7.703 | 0.004 | 191 | 200 | | | |
| o-terph | 4.161 | 0.010 | 1855521 | 1536759 | JET-A (C10-C18) | 23460966 | 1697.72 |
| Triacon Surr | 6.407 | 0.002 | 1219585 | 883074 | JP8 (Tol-C16) | 15478572 | 879.76 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1536759 | 71.8 | 159.5 |
| Triacantane | 883074 | 50.1 | 111.3 |

MS 5/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505R016.D

Date: 05-MAY-2011 17:36

Client ID: SUS3LCSM4

Sample Info: SUS3LCSM4

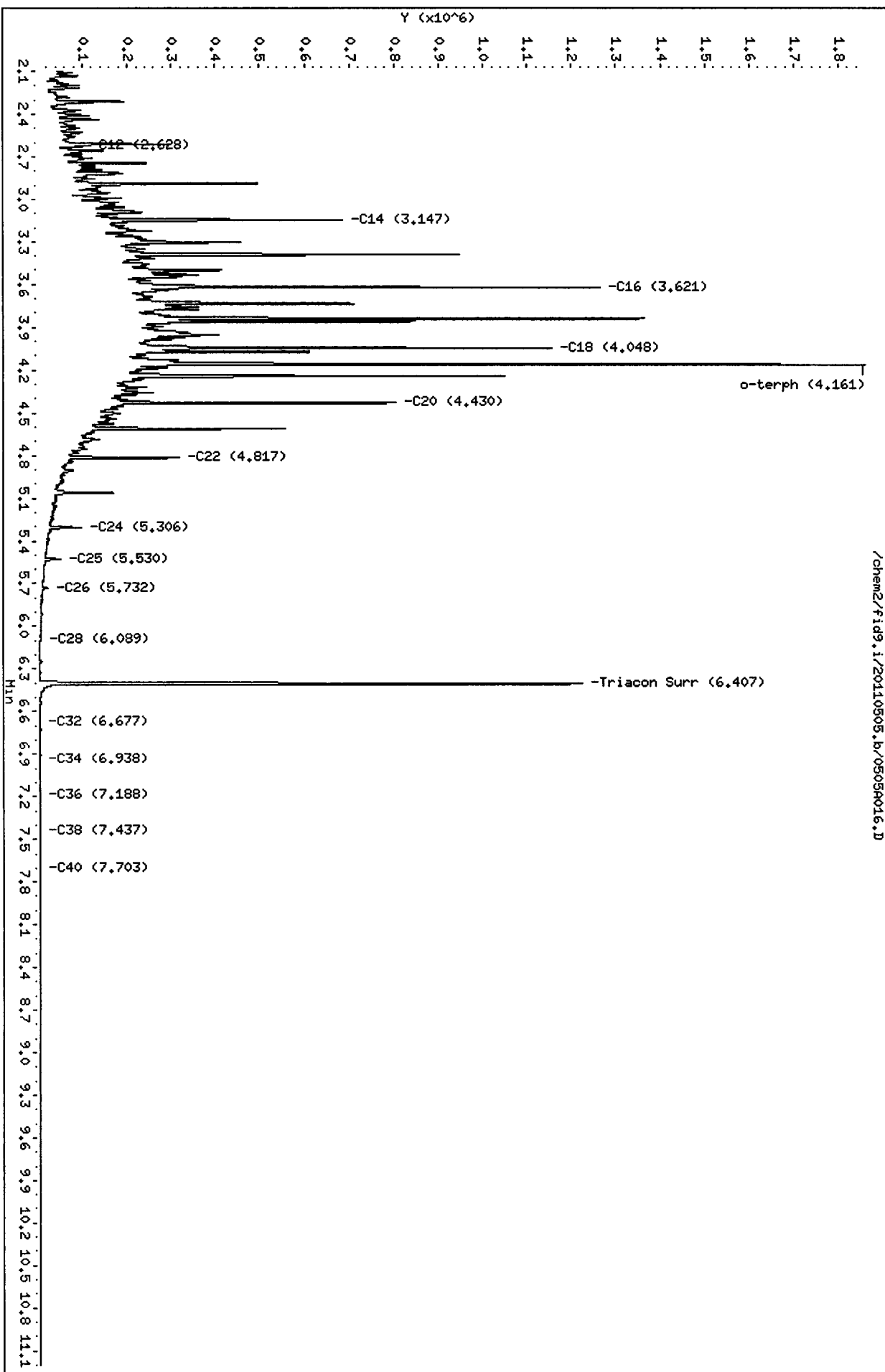
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110505.b/0505R016.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A016.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: SU53LCSW1
 Client ID: SU53LCSW1
 Injection: 05-MAY-2011 17:36
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.612 | 0.012 | 37535 | 29781 | GAS (Tol-C12) | 3106111 | 147.84 |
| C8 | 1.327 | 0.056 | 3970 | 3621 | DIESEL (C12-C24) | 30798753 | 1359.58 |
| C10 | 1.973 | -0.001 | 105913 | 95951 | M.OIL (C24-C38) | 418927 | 31.58 |
| C12 | 2.628 | 0.008 | 95682 | 68106 | AK-102 (C10-C25) | 33476470 | 1311.47 M |
| C14 | 3.147 | -0.010 | 682731 | 666713 | AK-103 (C25-C36) | 287250 | 33.80 |
| C16 | 3.621 | 0.001 | 1259665 | 1301172 | | | |
| C18 | 4.048 | 0.012 | 1152602 | 1014865 | | | |
| C20 | 4.430 | 0.006 | 800386 | 621925 | | | |
| C22 | 4.817 | 0.005 | 314882 | 274697 | | | |
| C24 | 5.306 | -0.002 | 94190 | 89253 | | | |
| C25 | 5.530 | -0.003 | 45292 | 43717 | | | |
| C26 | 5.732 | -0.001 | 18320 | 17915 | | | |
| C28 | 6.089 | 0.001 | 4394 | 4553 | | | |
| C32 | 6.677 | -0.003 | 441 | 367 | JP-4 (Tol-C14) | 7882395 | 480.74 |
| C34 | 6.938 | -0.004 | 223 | 109 | BUNKERC (C10-C38) | 33767141 | 4535.92 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.188 | -0.003 | 179 | 34 | | | |
| C38 | 7.437 | 0.006 | 161 | 49 | | | |
| C40 | 7.703 | 0.004 | 191 | 200 | | | |
| o-terph | 4.161 | 0.010 | 1567250 | 895033 | JET-A (C10-C18) | 23460966 | 1697.72 |
| Triacon Surr | 6.407 | 0.002 | 1219585 | 883074 | JP8 (Tol-C16) | 15478572 | 879.76 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

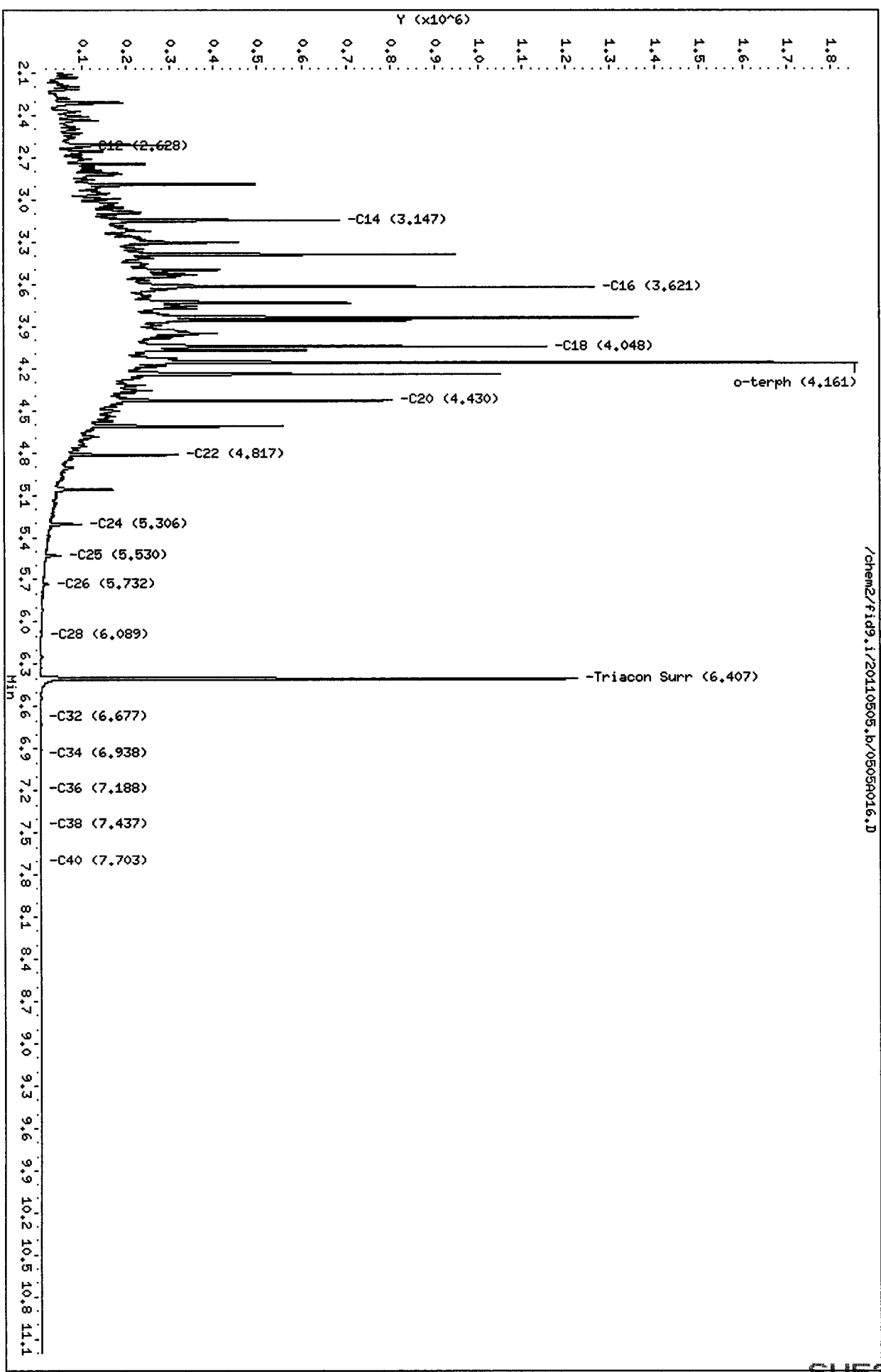
| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 895033 | 41.8 | 92.9 |
| Triacontane | 883074 | 50.1 | 111.3 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

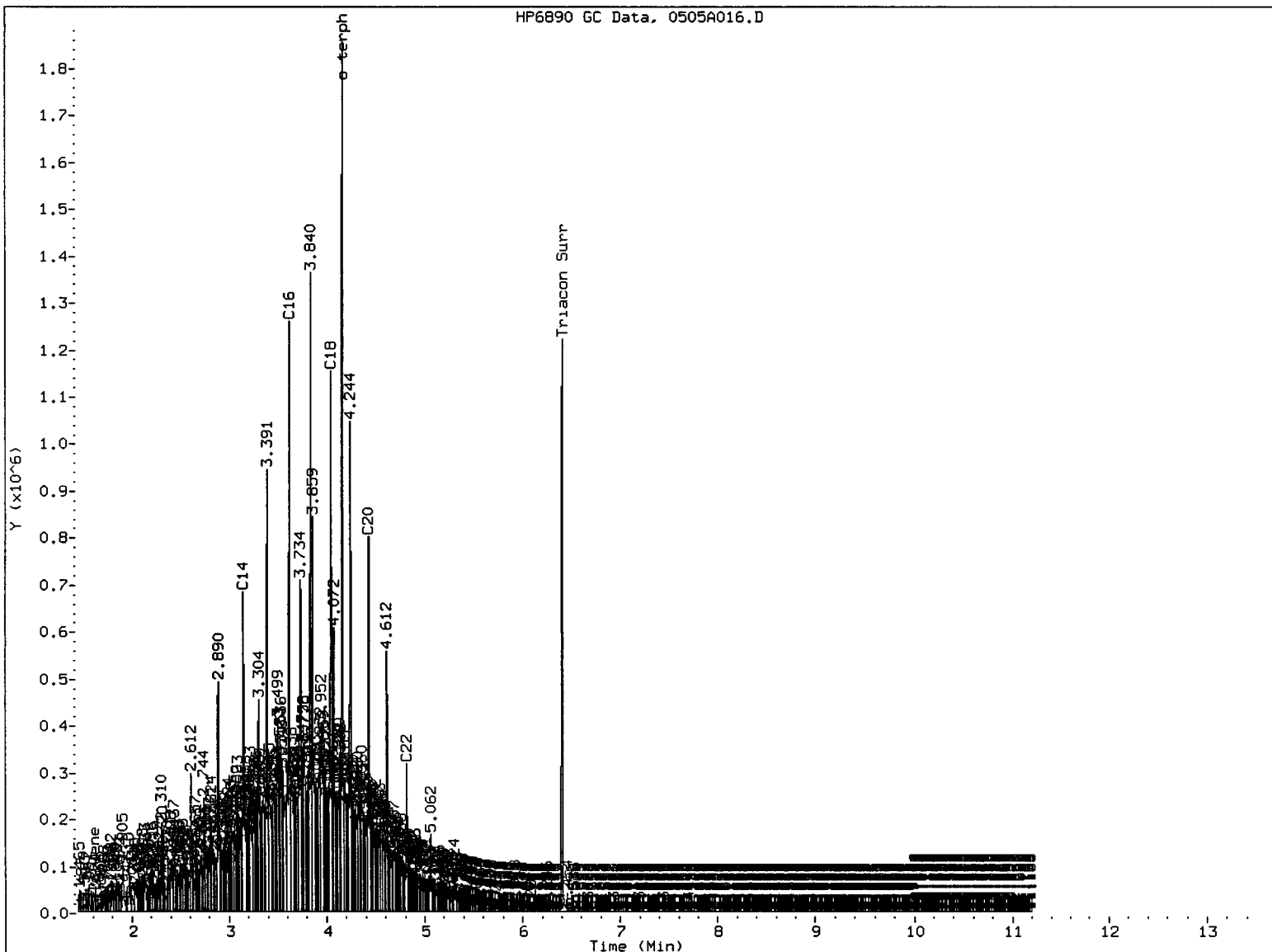
Data File: /chem2/fid9.i/20110505.b/0505A016.D
Date: 05-MAY-2011 17:36
Client ID: SU53LCSM1
Sample Info: SU53LCSM1

Column phase: RTX-1

Instrument: fid9.i
Operator: MS
Column diameter: 0.25



/chem2/fid9.i/20110505.b/0505A016.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MS

Date: 5/9/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A018.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: SU53A
Client ID: MW5042811
Injection: 05-MAY-2011 18:20
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.611 | 0.011 | 1354 | 3359 | GAS (Tol-C12) | 42966 | 2.05 |
| C8 | 1.357 | 0.085 | 3568 | 2708 | DIESEL (C12-C24) | 48652 | 2.15 |
| C10 | 1.981 | 0.006 | 1532 | 1686 | M.OIL (C24-C38) | 47494 | 3.58 |
| C12 | 2.626 | 0.005 | 451 | 552 | AK-102 (C10-C25) | 69404 | 2.72 |
| C14 | 3.159 | 0.002 | 341 | 424 | AK-103 (C25-C36) | 42193 | 4.96 |
| C16 | 3.619 | -0.002 | 559 | 417 | | | |
| C18 | 4.038 | 0.002 | 349 | 249 | | | |
| C20 | 4.423 | -0.002 | 290 | 202 | | | |
| C22 | 4.813 | 0.000 | 181 | 159 | | | |
| C24 | 5.309 | 0.001 | 95 | 17 | | | |
| C25 | 5.527 | -0.005 | 236 | 165 | | | |
| C26 | 5.737 | 0.004 | 40 | 6 | | | |
| C28 | 6.091 | 0.003 | 1131 | 757 | | | |
| C32 | 6.674 | -0.005 | 624 | 702 | JP-4 (Tol-C14) | 52512 | 3.20 |
| C34 | 6.948 | 0.007 | 302 | 188 | BUNKERC (C10-C38) | 116669 | 15.67 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.192 | 0.001 | 273 | 175 | | | |
| C38 | 7.428 | -0.003 | 964 | 1098 | | | |
| C40 | 7.695 | -0.005 | 398 | 288 | | | |
| o-terph | 4.153 | 0.001 | 1324929 | 848610 | JET-A (C10-C18) | 52756 | 3.82 |
| Triacon Surr | 6.409 | 0.003 | 1091434 | 789533 | JP8 (Tol-C16) | 64677 | 3.68 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

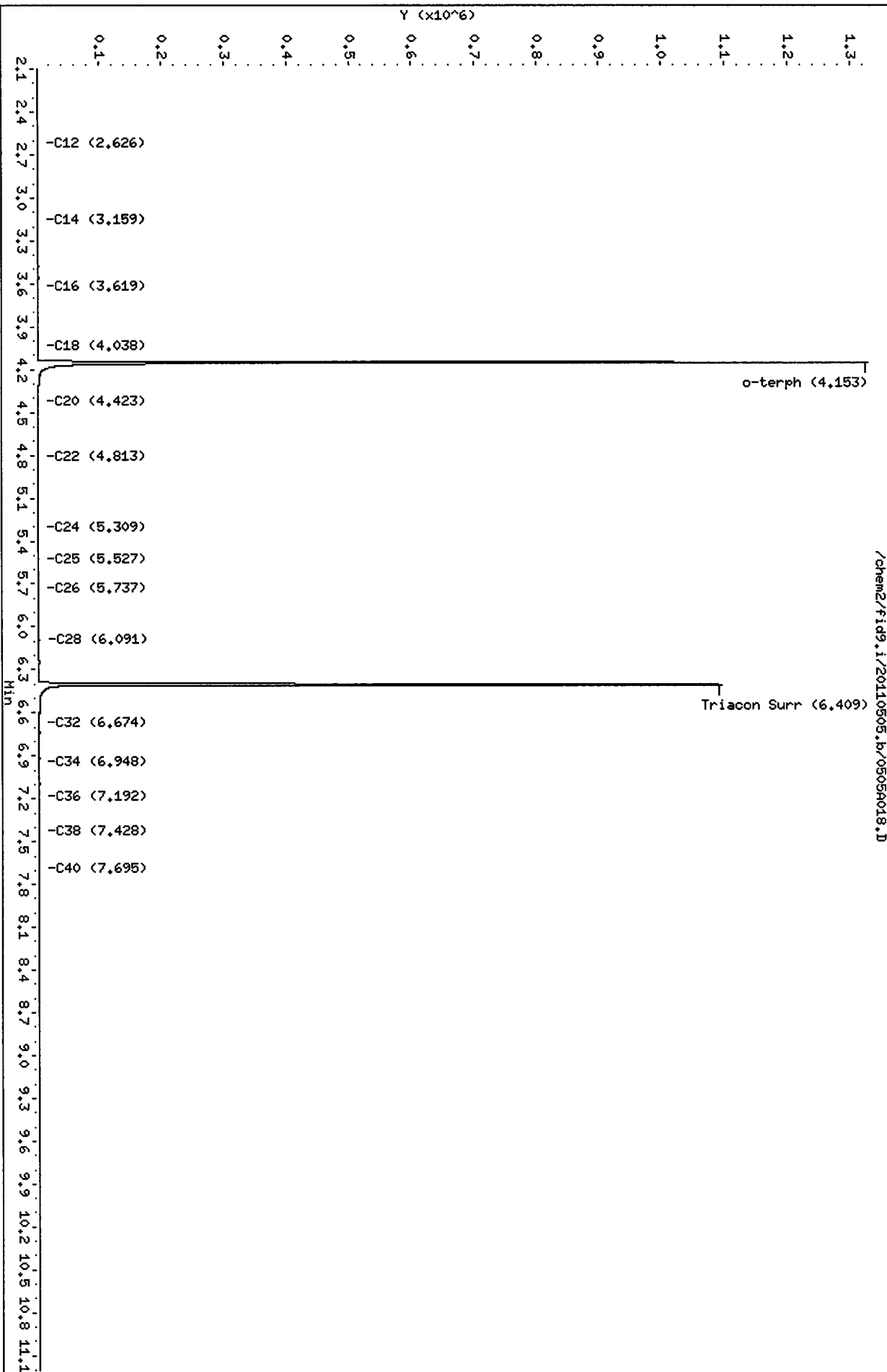
| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 848610 | 39.6 | 88.1 |
| Triacontane | 789533 | 44.8 | 99.5 |

MS/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505A018.D
Date : 05-May-2011 18:20
Client ID: HHS042811
Sample Info: SU53A
Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



/chem2/fid9.i/20110505.b/0505A018.D

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A019.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: SU53AMS
Client ID: MW5042811 MS
Injection: 05-MAY-2011 18:42
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|---------|
| Toluene | 1.616 | 0.016 | 43023 | 33581 | GAS (Tol-C12) | 3390348 | 161.37 |
| C8 | 1.329 | 0.058 | 3781 | 2435 | DIESEL (C12-C24) | 30133241 | 1330.21 |
| C10 | 1.975 | 0.001 | 115192 | 102215 | M.OIL (C24-C38) | 430162 | 32.43 |
| C12 | 2.613 | -0.008 | 324716 | 246269 | AK-102 (C10-C25) | 33064193 | 1295.32 |
| C14 | 3.146 | -0.012 | 686788 | 583482 | AK-103 (C25-C36) | 295582 | 34.78 |
| C16 | 3.619 | -0.002 | 1219755 | 1234260 | | | |
| C18 | 4.046 | 0.010 | 1128310 | 1084228 | | | |
| C20 | 4.428 | 0.004 | 846038 | 684442 | | | |
| C22 | 4.815 | 0.003 | 325821 | 274371 | | | |
| C24 | 5.305 | -0.003 | 94049 | 91303 | | | |
| C25 | 5.529 | -0.003 | 44316 | 50657 | | | |
| C26 | 5.732 | -0.002 | 18704 | 22486 | | | |
| C28 | 6.088 | 0.000 | 4414 | 5388 | | | |
| C32 | 6.681 | 0.002 | 497 | 445 | JP-4 (Tol-C14) | 8183567 | 499.10 |
| C34 | 6.942 | 0.000 | 280 | 85 | BUNKERC (C10-C38) | 33362901 | 4481.61 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.197 | 0.006 | 196 | 134 | | | |
| C38 | 7.421 | -0.010 | 864 | 741 | | | |
| C40 | 7.702 | 0.003 | 139 | 129 | | | |
| o-terph | 4.159 | 0.008 | 1859629 | 1413828 | JET-A (C10-C18) | 23759634 | 1719.34 |
| Triacon Surr | 6.407 | 0.002 | 1187147 | 818174 | JP8 (Tol-C16) | 15791993 | 897.58 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1413828 | 66.0 | 146.7 |
| Triacontane | 818174 | 46.4 | 103.2 |

MS 5/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/05050019.D

Date : 05-MAY-2011 18:42

Client ID: MMS042811.HS

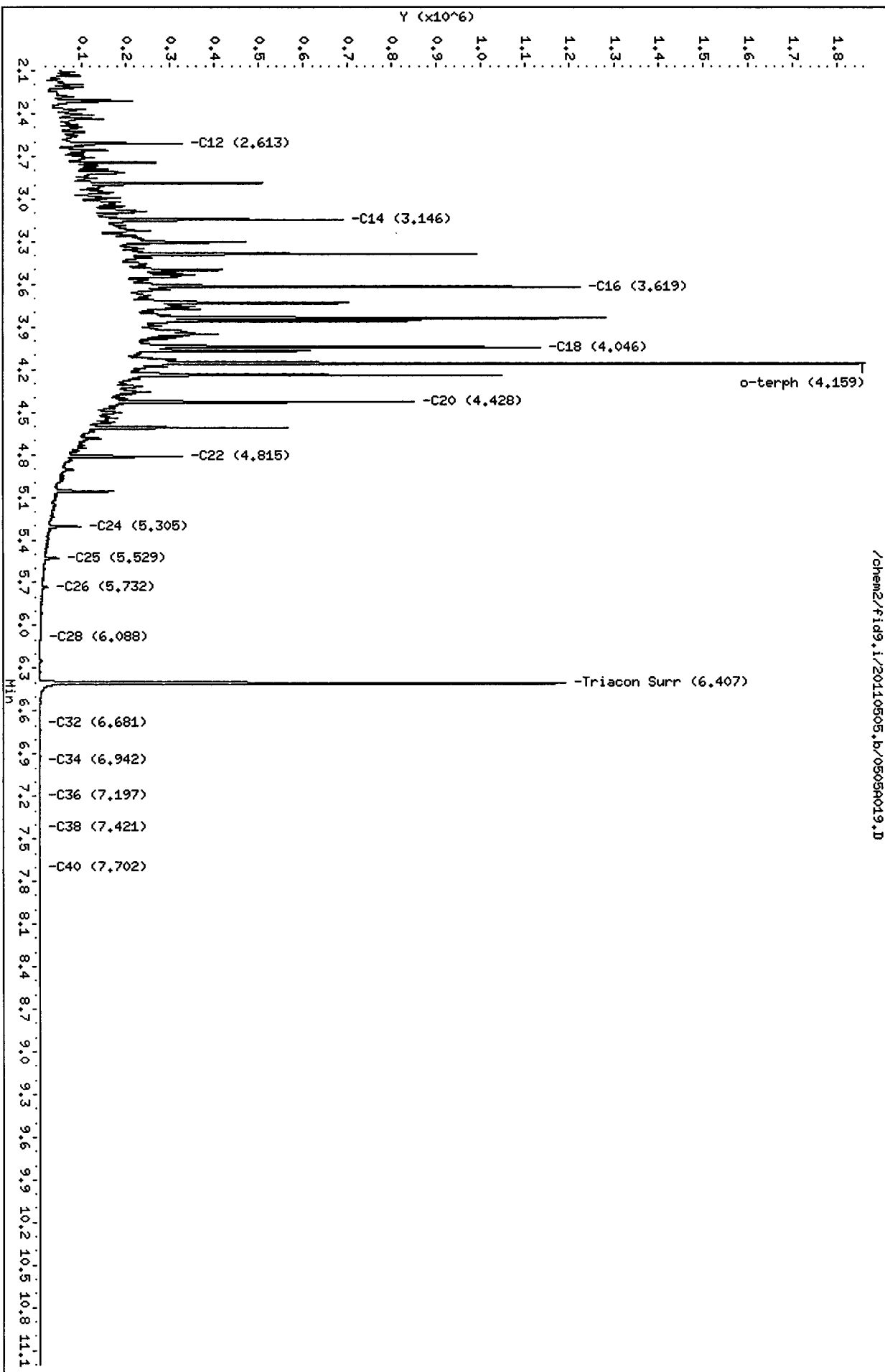
Sample Info: SUS30HS

Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A019.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: SU53AMS
 Client ID: MW5042811 MS
 Injection: 05-MAY-2011 18:42
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.616 | 0.016 | 43023 | 33581 | GAS (Tol-C12) | 3390348 | 161.37 |
| C8 | 1.329 | 0.058 | 3781 | 2435 | DIESEL (C12-C24) | 30734336 | 1356.74 |
| C10 | 1.975 | 0.001 | 115192 | 102215 | M.OIL (C24-C38) | 430162 | 32.43 |
| C12 | 2.613 | -0.008 | 324716 | 246269 | AK-102 (C10-C25) | 33665289 | 1318.87 M |
| C14 | 3.146 | -0.012 | 686788 | 583482 | AK-103 (C25-C36) | 295582 | 34.78 |
| C16 | 3.619 | -0.002 | 1219755 | 1234260 | | | |
| C18 | 4.046 | 0.010 | 1128310 | 1084228 | | | |
| C20 | 4.428 | 0.004 | 846038 | 684442 | | | |
| C22 | 4.815 | 0.003 | 325821 | 274371 | | | |
| C24 | 5.305 | -0.003 | 94049 | 91303 | | | |
| C25 | 5.529 | -0.003 | 44316 | 50657 | | | |
| C26 | 5.732 | -0.002 | 18704 | 22486 | | | |
| C28 | 6.088 | 0.000 | 4414 | 5388 | | | |
| C32 | 6.681 | 0.002 | 497 | 445 | JP-4 (Tol-C14) | 8183567 | 499.10 |
| C34 | 6.942 | 0.000 | 280 | 85 | BUNKERC (C10-C38) | 33963997 | 4562.36 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.197 | 0.006 | 196 | 134 | | | |
| C38 | 7.421 | -0.010 | 864 | 741 | | | |
| C40 | 7.702 | 0.003 | 139 | 129 | | | |
| o-terph | 4.159 | 0.008 | 1565570 | 818033 | JET-A (C10-C18) | 23759634 | 1719.34 |
| Triacon Surr | 6.407 | 0.002 | 1187147 | 818174 | JP8 (Tol-C16) | 15791993 | 897.58 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 818033 | 38.2 | 84.9 |
| Triacontane | 818174 | 46.4 | 103.2 |

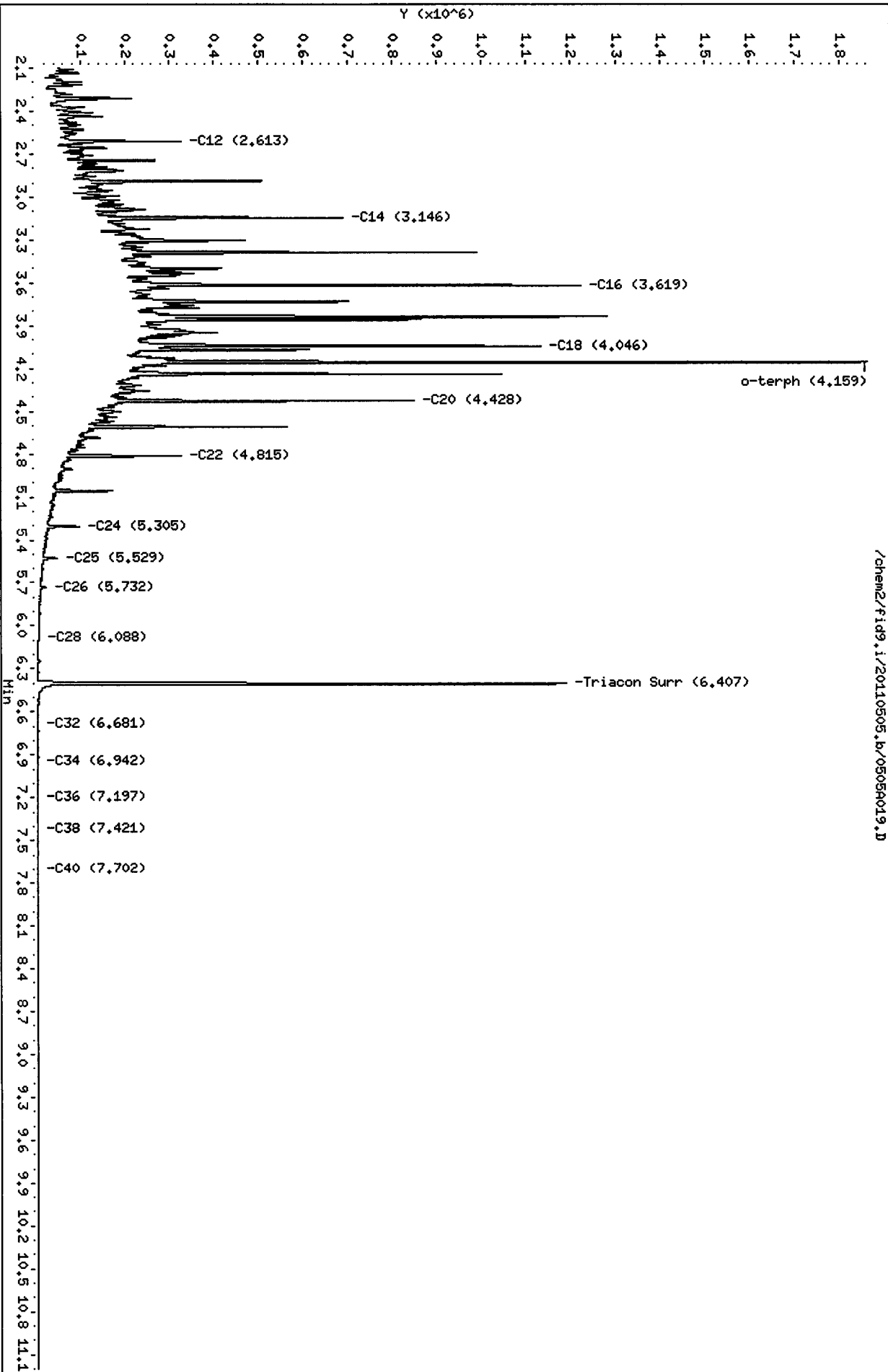
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505A019.D
Date: 05-MAY-2011 18:42
Client ID: MMS042811 HS
Sample Info: SUS3AHS

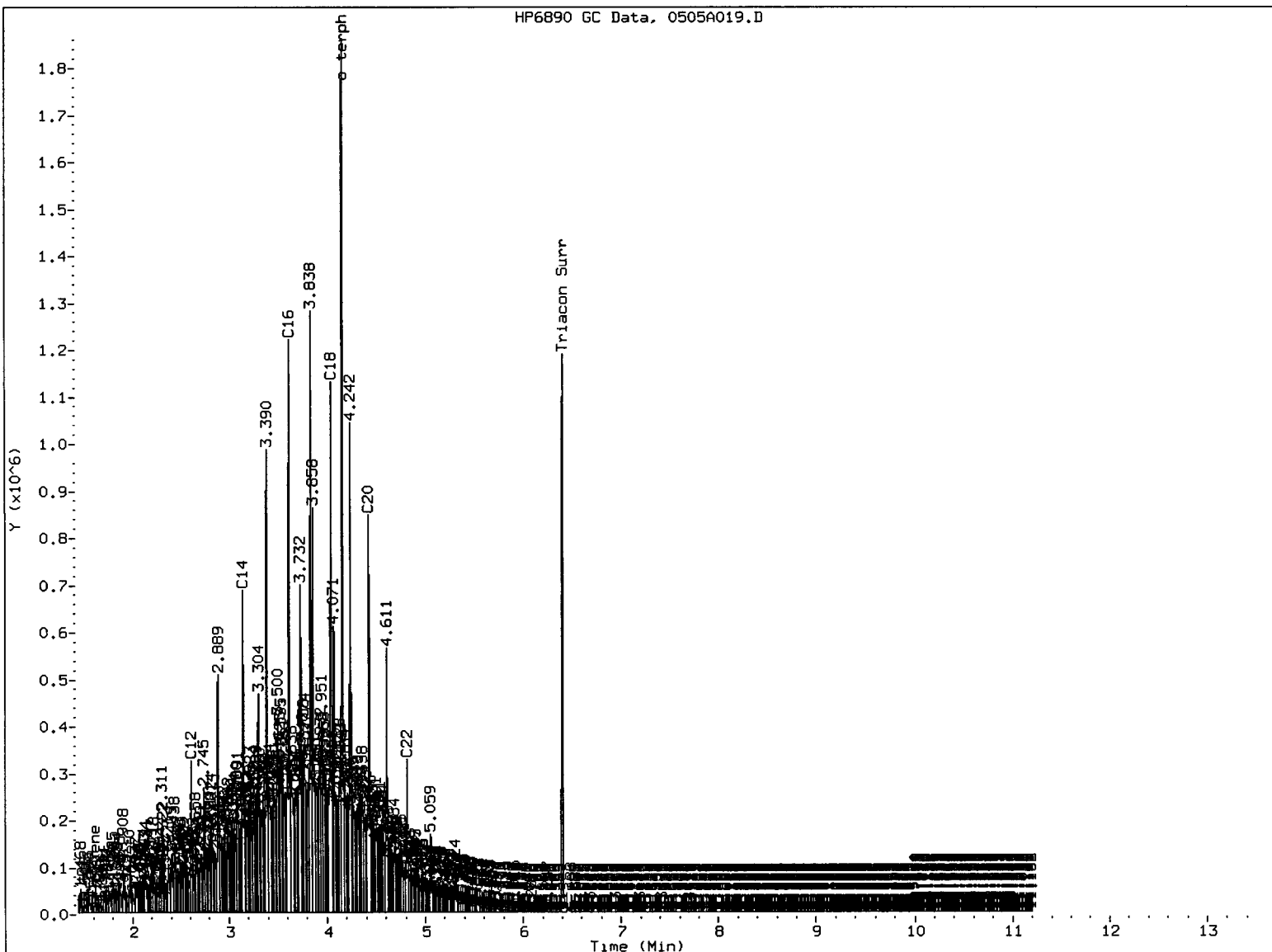
Column phase: RTX-1

/chem2/fid9.i/20110505.b/0505A019.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



HP6890 GC Data, 0505A019.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: ms

Date: 5/9/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A020.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: SU53AMSD
 Client ID: MW5042811 MSD
 Injection: 05-MAY-2011 19:03
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|---------|
| Toluene | 1.613 | 0.013 | 43097 | 31399 | GAS (Tol-C12) | 3304373 | 157.28 |
| C8 | 1.325 | 0.054 | 3096 | 1899 | DIESEL (C12-C24) | 29011008 | 1280.67 |
| C10 | 1.974 | -0.001 | 112876 | 102678 | M.OIL (C24-C38) | 406093 | 30.62 |
| C12 | 2.627 | 0.006 | 98025 | 73915 | AK-102 (C10-C25) | 31841919 | 1247.43 |
| C14 | 3.163 | 0.005 | 188572 | 109650 | AK-103 (C25-C36) | 284104 | 33.43 |
| C16 | 3.619 | -0.002 | 1269930 | 1199875 | | | |
| C18 | 4.045 | 0.009 | 1080026 | 1103436 | | | |
| C20 | 4.428 | 0.004 | 804479 | 633125 | | | |
| C22 | 4.814 | 0.001 | 328427 | 272688 | | | |
| C24 | 5.305 | -0.003 | 94206 | 96751 | | | |
| C25 | 5.528 | -0.005 | 41779 | 49305 | | | |
| C26 | 5.733 | 0.000 | 17689 | 21727 | | | |
| C28 | 6.091 | 0.003 | 4585 | 5808 | | | |
| C32 | 6.674 | -0.005 | 457 | 411 | JP-4 (Tol-C14) | 8037811 | 490.22 |
| C34 | 6.939 | -0.002 | 232 | 69 | BUNKERC (C10-C38) | 32128529 | 4315.80 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.198 | 0.006 | 149 | 70 | | | |
| C38 | 7.418 | -0.013 | 700 | 665 | | | |
| C40 | 7.699 | 0.000 | 124 | 48 | | | |
| o-terph | 4.159 | 0.008 | 1750954 | 1525786 | JET-A (C10-C18) | 22861719 | 1654.36 |
| Triacon Surr | 6.407 | 0.002 | 1151975 | 833072 | JP8 (Tol-C16) | 15355899 | 872.79 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1525786 | 71.2 | 158.3 |
| Triacontane | 833072 | 47.3 | 105.0 |

ms 5/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505A020.D

Date : 05-MAY-2011 19:03

Client ID: MMS042814.HSD

Sample Info: SUS34HSD

Page 1

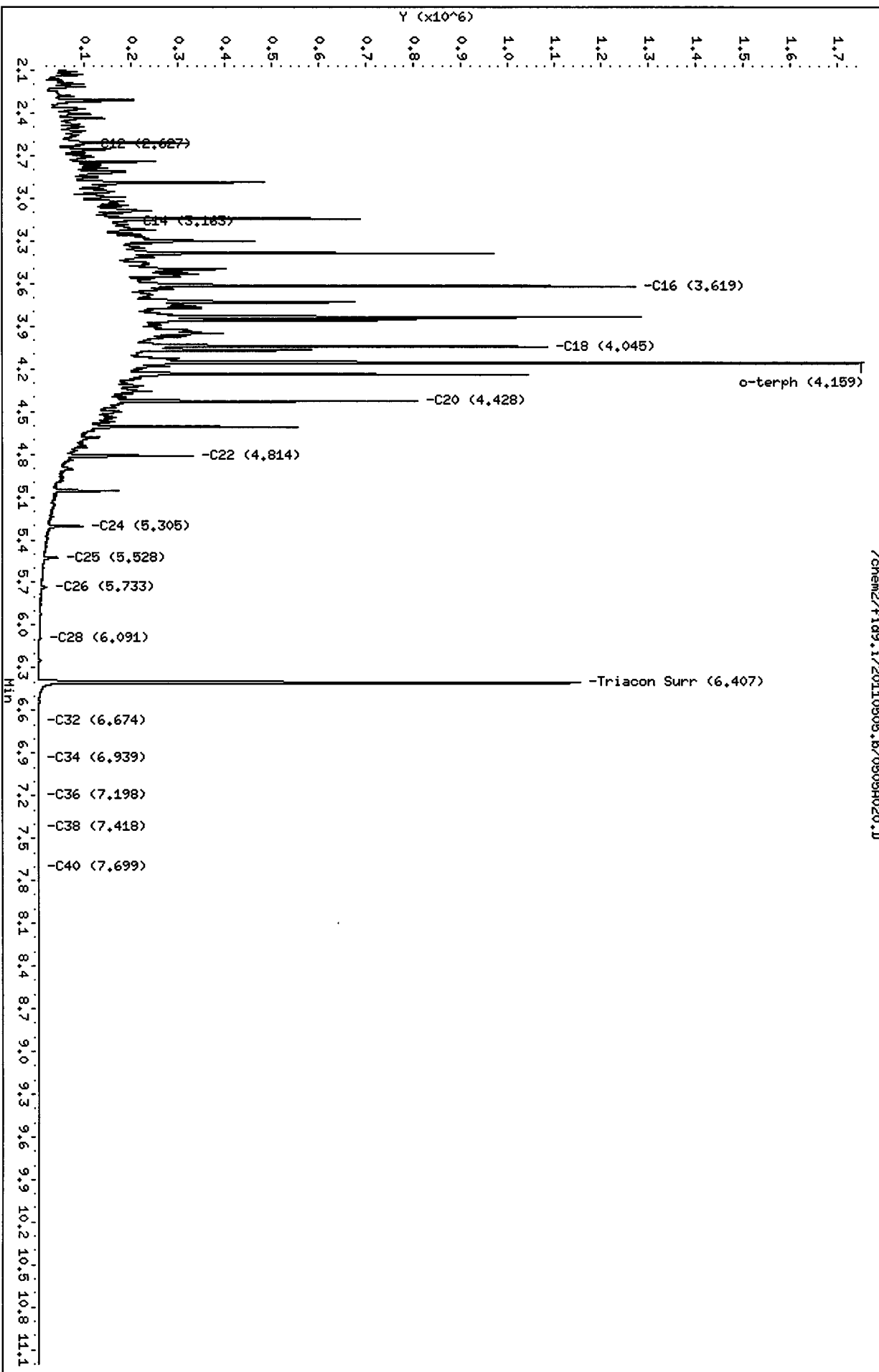
Instrument: fid9.i

Operator: MS

Column diameter: 0.25

Column phase: RTX-1

/chem2/fid9.i/20110505.b/0505A020.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A020.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: SU53AMSD
 Client ID: MW5042811 MSD
 Injection: 05-MAY-2011 19:03
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.613 | 0.013 | 43097 | 31399 | GAS (Tol-C12) | 3304373 | 157.28 |
| C8 | 1.325 | 0.054 | 3096 | 1899 | DIESEL (C12-C24) | 29694003 | 1310.82 |
| C10 | 1.974 | -0.001 | 112876 | 102678 | M.OIL (C24-C38) | 406093 | 30.62 |
| C12 | 2.627 | 0.006 | 98025 | 73915 | AK-102 (C10-C25) | 32524914 | 1274.19 M |
| C14 | 3.163 | 0.005 | 188572 | 109650 | AK-103 (C25-C36) | 284104 | 33.43 |
| C16 | 3.619 | -0.002 | 1269930 | 1199875 | | | |
| C18 | 4.045 | 0.009 | 1080026 | 1103436 | | | |
| C20 | 4.428 | 0.004 | 804479 | 633125 | | | |
| C22 | 4.814 | 0.001 | 328427 | 272688 | | | |
| C24 | 5.305 | -0.003 | 94206 | 96751 | | | |
| C25 | 5.528 | -0.005 | 41779 | 49305 | | | |
| C26 | 5.733 | 0.000 | 17689 | 21727 | | | |
| C28 | 6.091 | 0.003 | 4585 | 5808 | | | |
| C32 | 6.674 | -0.005 | 457 | 411 | JP-4 (Tol-C14) | 8037811 | 490.22 |
| C34 | 6.939 | -0.002 | 232 | 69 | BUNKERC (C10-C38) | 32811524 | 4407.55 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.198 | 0.006 | 149 | 70 | | | |
| C38 | 7.418 | -0.013 | 700 | 665 | | | |
| C40 | 7.699 | 0.000 | 124 | 48 | | | |
| o-terph | 4.159 | 0.008 | 1467068 | 847750 | JET-A (C10-C18) | 22861719 | 1654.36 |
| Triacon Surr | 6.407 | 0.002 | 1151975 | 833072 | JP8 (Tol-C16) | 15355899 | 872.79 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 847750 | 39.6 | 88.0 |
| Triacontane | 833072 | 47.3 | 105.0 |

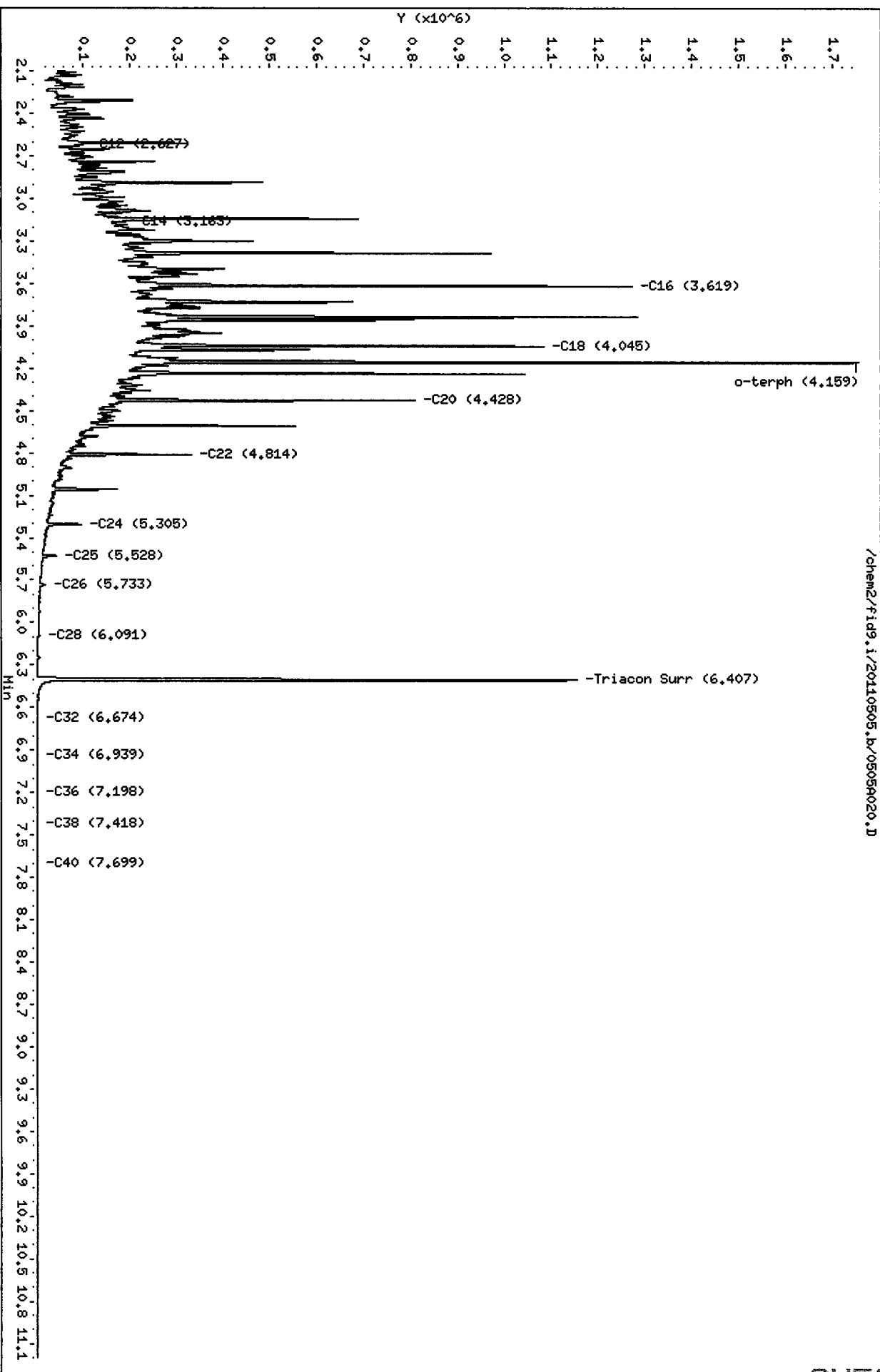
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

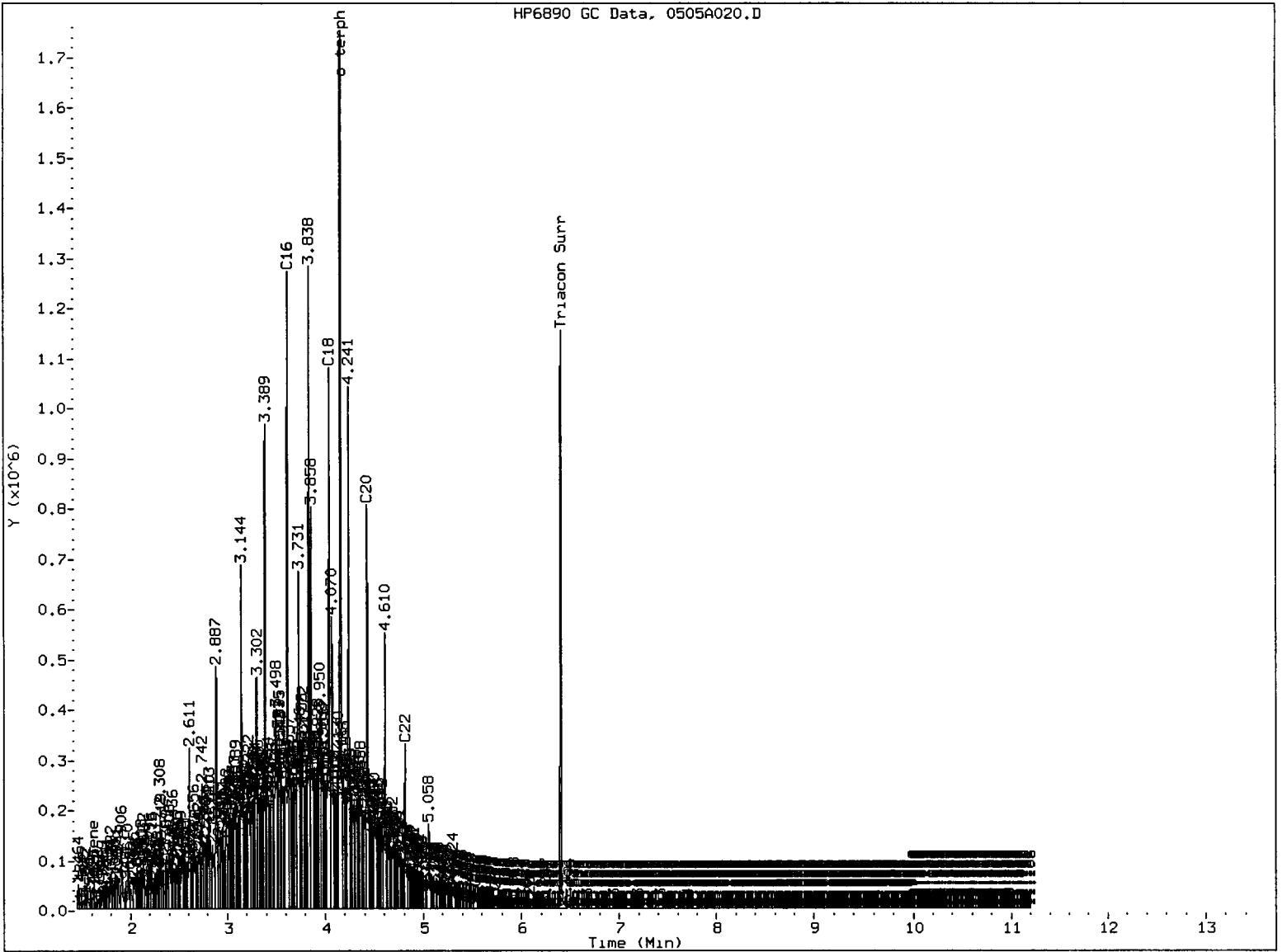
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Date: 05-MAY-2011 19:03
Client ID: MMS042811 MSD
Sample Info: SUE39MSD

Column phase: RTX-1

Instrument: fid9.i
Operator: MS
Column diameter: 0.25

/chem2/fid9.i/20110505.b/0505A020.D





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst:

Date:

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A021.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: SU53B
 Client ID: MW15042811
 Injection: 05-MAY-2011 19:25
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.613 | 0.013 | 769 | 1182 | GAS (Tol-C12) | 21251 | 1.01 |
| C8 | 1.347 | 0.075 | 2086 | 457 | DIESEL (C12-C24) | 45323 | 2.00 |
| C10 | 1.982 | 0.007 | 979 | 897 | M.OIL (C24-C38) | 76389 | 5.76 |
| C12 | 2.613 | -0.007 | 420 | 601 | AK-102 (C10-C25) | 54178 | 2.12 |
| C14 | 3.156 | -0.001 | 146 | 95 | AK-103 (C25-C36) | 67402 | 7.93 |
| C16 | 3.617 | -0.004 | 609 | 382 | | | |
| C18 | 4.038 | 0.003 | 1052 | 996 | | | |
| C20 | 4.419 | -0.005 | 292 | 189 | | | |
| C22 | 4.813 | 0.000 | 248 | 271 | | | |
| C24 | 5.303 | -0.005 | 163 | 79 | | | |
| C25 | 5.528 | -0.005 | 522 | 391 | | | |
| C26 | 5.729 | -0.004 | 357 | 67 | | | |
| C28 | 6.092 | 0.004 | 2044 | 1754 | | | |
| C32 | 6.679 | 0.000 | 788 | 583 | JP-4 (Tol-C14) | 24355 | 1.49 |
| C34 | 6.951 | 0.010 | 564 | 309 | BUNKERC (C10-C38) | 129341 | 17.37 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.196 | 0.004 | 912 | 553 | | | |
| C38 | 7.416 | -0.015 | 1593 | 2204 | | | |
| C40 | 7.698 | -0.001 | 205 | 39 | | | |
| o-terph | 4.155 | 0.004 | 1355255 | 905762 | JET-A (C10-C18) | 37889 | 2.74 |
| Triacon Surr | 6.410 | 0.004 | 1142964 | 856850 | JP8 (Tol-C16) | 37973 | 2.16 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 905762 | 42.3 | 94.0 |
| Triacontane | 856850 | 48.6 | 108.0 |

MS 5/9/11

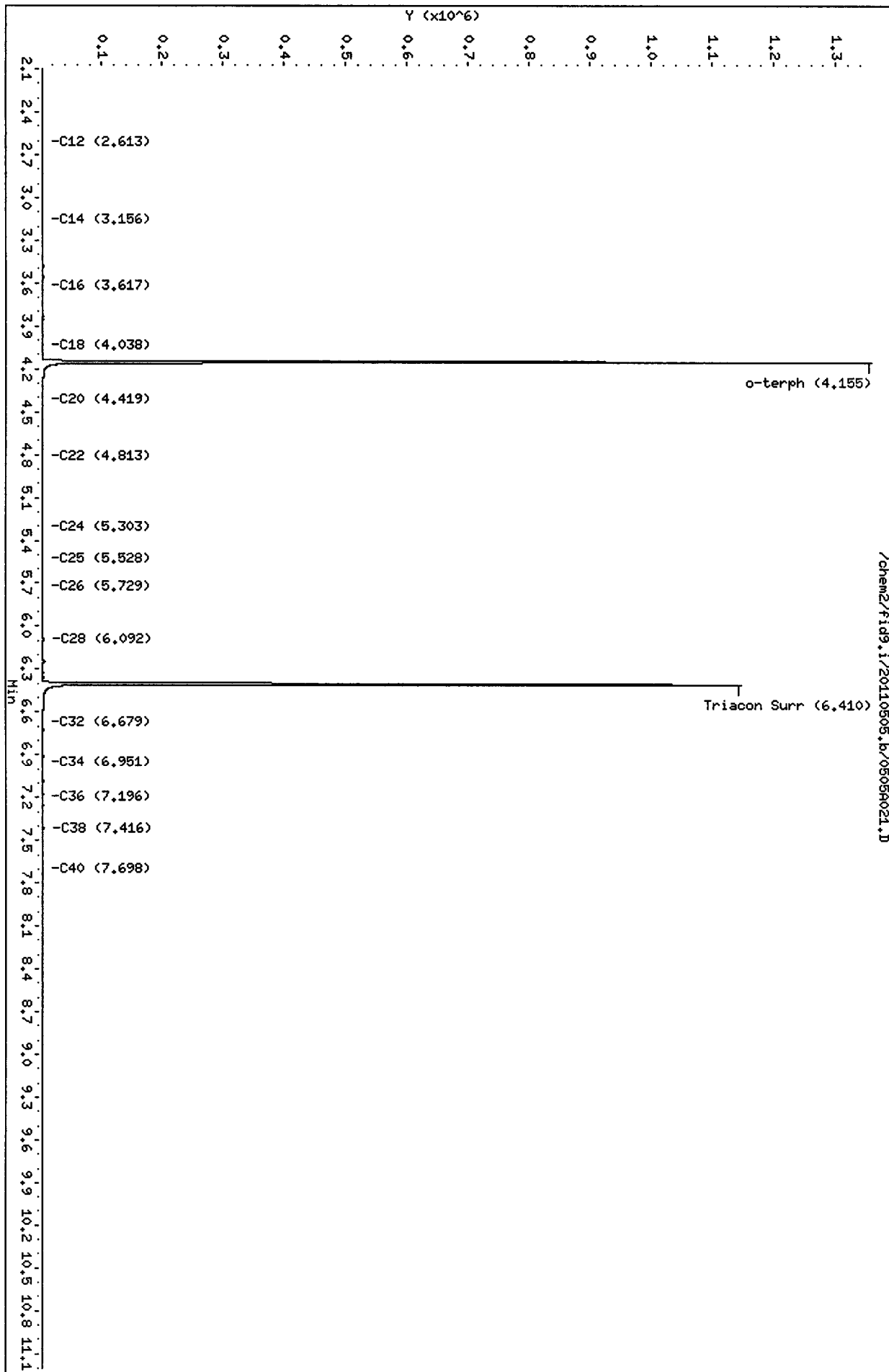
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/05050021.D
Date: 05-MAY-2011 19:25
Client ID: MM15042811
Sample Info: SU57B

Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25

/chem2/fid9.i/20110505.b/05050021.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A022.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: SU53C
 Client ID: MW4042811
 Injection: 05-MAY-2011 19:47
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.601 | 0.001 | 1093 | 282 | GAS (Tol-C12) | 35033 | 1.67 |
| C8 | ---- | | | | DIESEL (C12-C24) | 38057 | 1.68 |
| C10 | 1.984 | 0.009 | 1249 | 1354 | M.OIL (C24-C38) | 51053 | 3.85 |
| C12 | 2.628 | 0.008 | 365 | 390 | AK-102 (C10-C25) | 54806 | 2.15 |
| C14 | 3.157 | -0.001 | 266 | 314 | AK-103 (C25-C36) | 45547 | 5.36 |
| C16 | 3.618 | -0.003 | 389 | 235 | | | |
| C18 | 4.028 | -0.008 | 198 | 217 | | | |
| C20 | 4.428 | 0.004 | 266 | 186 | | | |
| C22 | 4.813 | 0.001 | 190 | 146 | | | |
| C24 | 5.306 | -0.002 | 71 | 24 | | | |
| C25 | 5.526 | -0.006 | 264 | 168 | | | |
| C26 | 5.734 | 0.001 | 19 | 3 | | | |
| C28 | 6.094 | 0.006 | 1062 | 768 | | | |
| C32 | 6.681 | 0.001 | 699 | 568 | JP-4 (Tol-C14) | 41931 | 2.56 |
| C34 | 6.944 | 0.003 | 368 | 336 | BUNKERC (C10-C38) | 105693 | 14.20 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.193 | 0.001 | 281 | 141 | | | |
| C38 | 7.440 | 0.009 | 333 | 117 | | | |
| C40 | 7.703 | 0.004 | 389 | 471 | | | |
| o-terph | 4.153 | 0.002 | 1287493 | 875474 | JET-A (C10-C18) | 35074 | 2.54 |
| Triacon Surr | 6.410 | 0.004 | 1154532 | 822418 | JP8 (Tol-C16) | 49109 | 2.79 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 875474 | 40.9 | 90.8 |
| Triacontane | 822418 | 46.7 | 103.7 |

MS 5/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505022.D

Date: 05-MAY-2011 19:47

Client ID: MM4042811

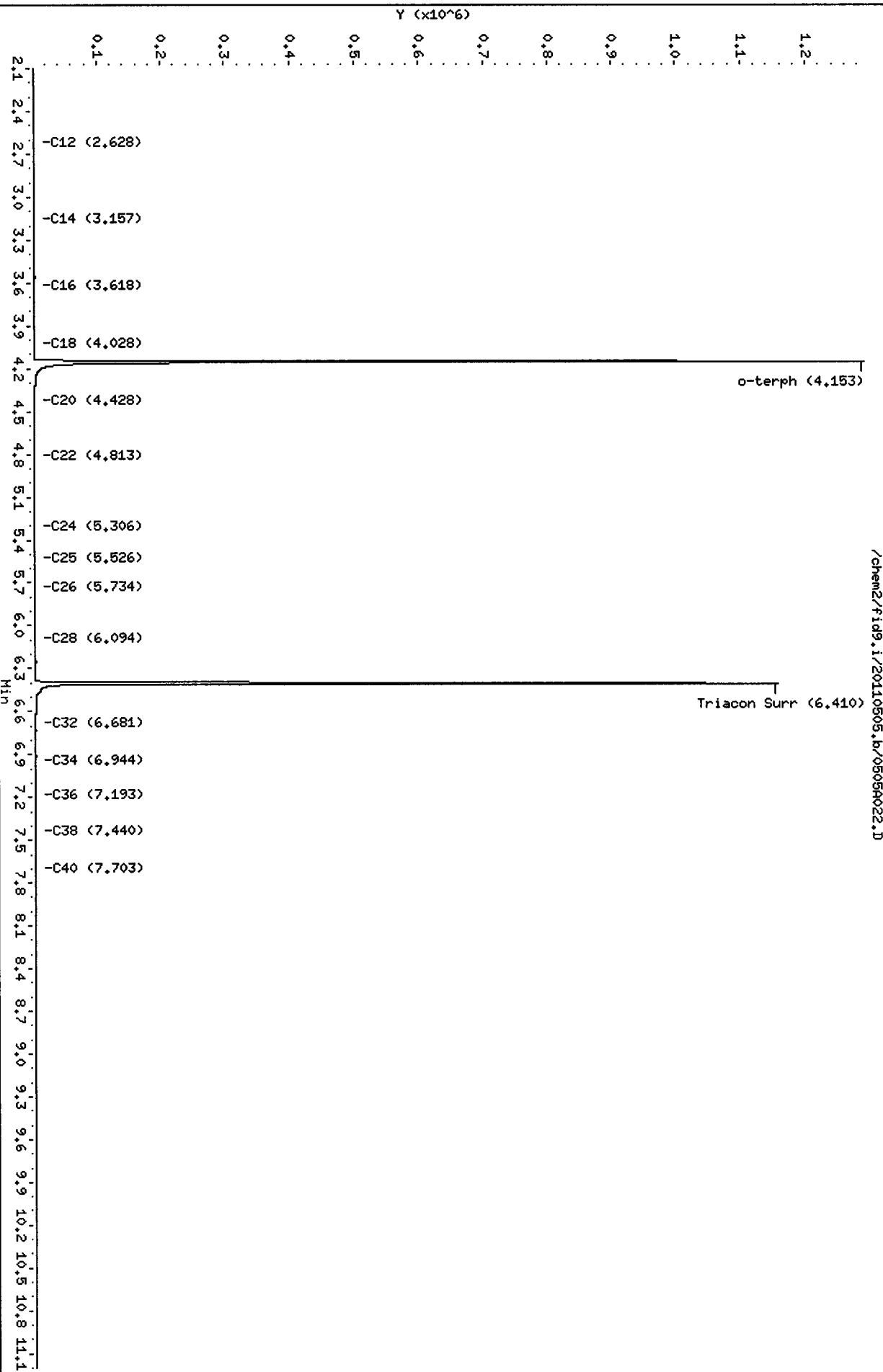
Sample Info: SU53C

Column phase: RTX-1

Instrument: fid9.i

Operator: NS

Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A023.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: SU53D
 Client ID: MW17042811
 Injection: 05-MAY-2011 20:09
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.593 | -0.007 | 869 | 153 | GAS (Tol-C12) | 25401 | 1.21 |
| C8 | ---- | | | | DIESEL (C12-C24) | 28787 | 1.27 |
| C10 | 1.981 | 0.007 | 1091 | 1034 | M.OIL (C24-C38) | 117275 | 8.84 |
| C12 | 2.624 | 0.004 | 269 | 495 | AK-102 (C10-C25) | 42119 | 1.65 |
| C14 | 3.160 | 0.003 | 103 | 92 | AK-103 (C25-C36) | 107058 | 12.60 |
| C16 | 3.619 | -0.001 | 254 | 239 | | | |
| C18 | 4.029 | -0.006 | 271 | 191 | | | |
| C20 | 4.417 | -0.007 | 213 | 126 | | | |
| C22 | 4.812 | 0.000 | 300 | 162 | | | |
| C24 | 5.301 | -0.007 | 357 | 301 | | | |
| C25 | 5.527 | -0.005 | 623 | 539 | | | |
| C26 | 5.730 | -0.003 | 620 | 234 | | | |
| C28 | 6.095 | 0.007 | 2699 | 2958 | | | |
| C32 | 6.676 | -0.003 | 999 | 877 | JP-4 (Tol-C14) | 28228 | 1.72 |
| C34 | 6.944 | 0.003 | 701 | 289 | BUNKERC (C10-C38) | 156831 | 21.07 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.200 | 0.009 | 565 | 100 | | | |
| C38 | 7.417 | -0.014 | 937 | 1350 | | | |
| C40 | 7.695 | -0.004 | 373 | 264 | | | |
| o-terph | 4.155 | 0.004 | 1167925 | 789512 | JET-A (C10-C18) | 19961 | 1.44 |
| Triacon Surr | 6.409 | 0.004 | 1058419 | 729516 | JP8 (Tol-C16) | 31965 | 1.82 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 789512 | 36.9 | 81.9 |
| Triacontane | 729516 | 41.4 | 92.0 |

MS 5/9/11

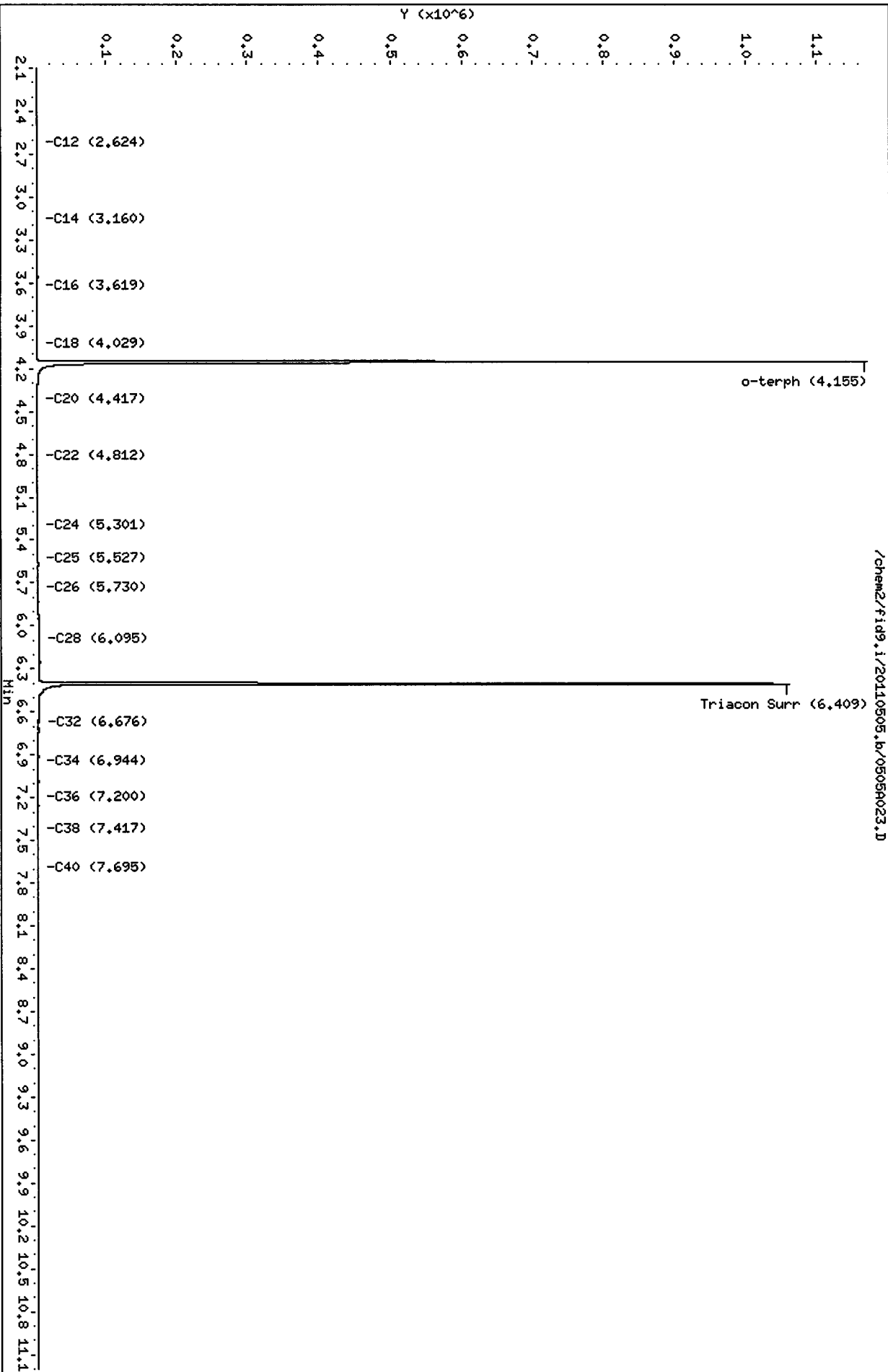
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505A023.D
Date: 05-MAY-2011 20:09
Client ID: MM17042811
Sample Info: SU53D

Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25

/chem2/fid9.i/20110505.b/0505A023.D



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A024.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: SU53E
Client ID: MW14042811
Injection: 05-MAY-2011 20:30
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.598 | -0.002 | 1251 | 693 | GAS (Tol-C12) | 43939 | 2.09 |
| C8 | ---- | | | | DIESEL (C12-C24) | 46637 | 2.06 |
| C10 | 1.981 | 0.006 | 1316 | 1490 | M.OIL (C24-C38) | 49607 | 3.74 |
| C12 | 2.614 | -0.006 | 974 | 2058 | AK-102 (C10-C25) | 68194 | 2.67 |
| C14 | 3.157 | -0.001 | 320 | 321 | AK-103 (C25-C36) | 44572 | 5.24 |
| C16 | 3.618 | -0.003 | 394 | 244 | | | |
| C18 | 4.038 | 0.003 | 146 | 59 | | | |
| C20 | 4.437 | 0.013 | 271 | 159 | | | |
| C22 | 4.813 | 0.000 | 187 | 238 | | | |
| C24 | 5.309 | 0.001 | 177 | 65 | | | |
| C25 | 5.528 | -0.004 | 211 | 162 | | | |
| C26 | 5.732 | -0.002 | 27 | 5 | | | |
| C28 | 6.080 | -0.008 | 80 | 46 | | | |
| C32 | 6.681 | 0.001 | 738 | 724 | JP-4 (Tol-C14) | 52907 | 3.23 |
| C34 | 6.952 | 0.010 | 371 | 226 | BUNKERC (C10-C38) | 117569 | 15.79 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.191 | 0.000 | 281 | 200 | | | |
| C38 | 7.430 | -0.001 | 770 | 979 | | | |
| C40 | 7.695 | -0.005 | 379 | 267 | | | |
| o-terph | 4.154 | 0.003 | 1341313 | 869014 | JET-A (C10-C18) | 43816 | 3.17 |
| Triacon Surr | 6.413 | 0.007 | 1141457 | 811789 | JP8 (Tol-C16) | 61560 | 3.50 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

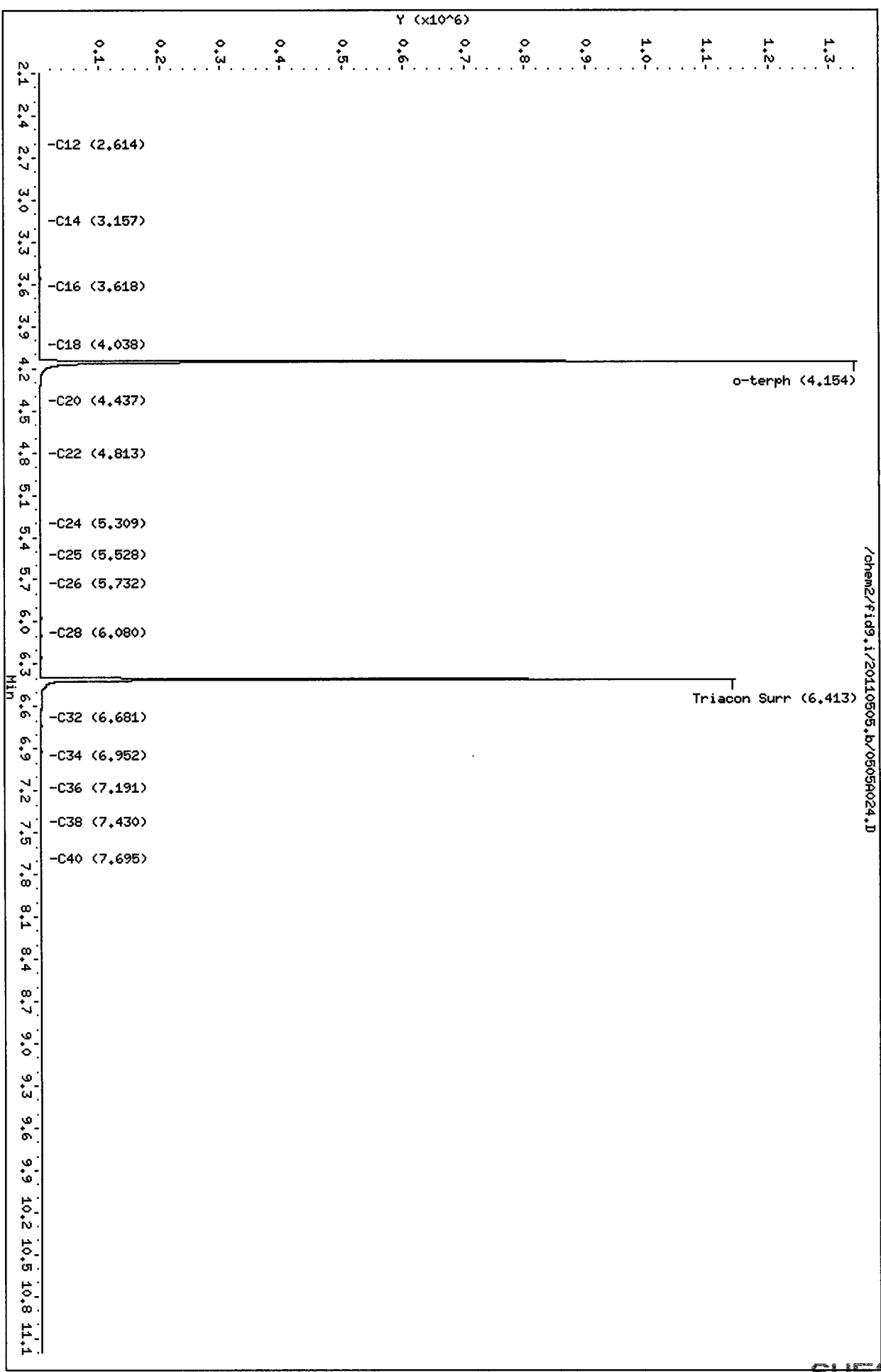
| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 869014 | 40.6 | 90.2 |
| Triacontane | 811789 | 46.1 | 102.3 |

MS 5/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505A024.D
Date: 05-MAY-2011 20:30
Client ID: MM14042811
Sample Info: SU53E
Column phase: RTX-1

Instrument: fid9.i
Operator: MS
Column diameter: 0.25



/chem2/fid9.i/20110505.b/0505A024.D

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A025.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: SU53F
Client ID: MW16042811
Injection: 05-MAY-2011 20:52
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.612 | 0.012 | 614 | 1083 | GAS (Tol-C12) | 21954 | 1.04 |
| C8 | 1.358 | 0.087 | 5246 | 3096 | DIESEL (C12-C24) | 36679 | 1.62 |
| C10 | 1.984 | 0.009 | 1003 | 877 | M.OIL (C24-C38) | 177742 | 13.40 |
| C12 | 2.619 | -0.001 | 485 | 877 | AK-102 (C10-C25) | 51722 | 2.03 |
| C14 | 3.157 | 0.000 | 103 | 76 | AK-103 (C25-C36) | 162502 | 19.12 |
| C16 | 3.618 | -0.002 | 269 | 153 | | | |
| C18 | 4.029 | -0.006 | 155 | 113 | | | |
| C20 | 4.428 | 0.004 | 323 | 155 | | | |
| C22 | 4.812 | 0.000 | 435 | 477 | | | |
| C24 | 5.305 | -0.003 | 631 | 191 | | | |
| C25 | 5.529 | -0.003 | 1080 | 995 | | | |
| C26 | 5.734 | 0.001 | 1227 | 564 | | | |
| C28 | 6.094 | 0.006 | 3031 | 4131 | | | |
| C32 | 6.673 | -0.006 | 1563 | 1385 | JP-4 (Tol-C14) | 24063 | 1.47 |
| C34 | 6.939 | -0.002 | 1076 | 595 | BUNKERC (C10-C38) | 224514 | 30.16 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.189 | -0.002 | 841 | 649 | | | |
| C38 | 7.446 | 0.016 | 581 | 624 | | | |
| C40 | 7.696 | -0.003 | 445 | 304 | | | |
| o-terph | 4.156 | 0.005 | 1347528 | 915882 | JET-A (C10-C18) | 18794 | 1.36 |
| Triacon Surr | 6.411 | 0.005 | 1185059 | 848015 | JP8 (Tol-C16) | 27884 | 1.58 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 915882 | 42.8 | 95.0 |
| Triacontane | 848015 | 48.1 | 106.9 |

MS 5/9/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505A025.D

Date: 05-MAY-2011 20:52

Client ID: MM16042811

Sample Info: SU53F

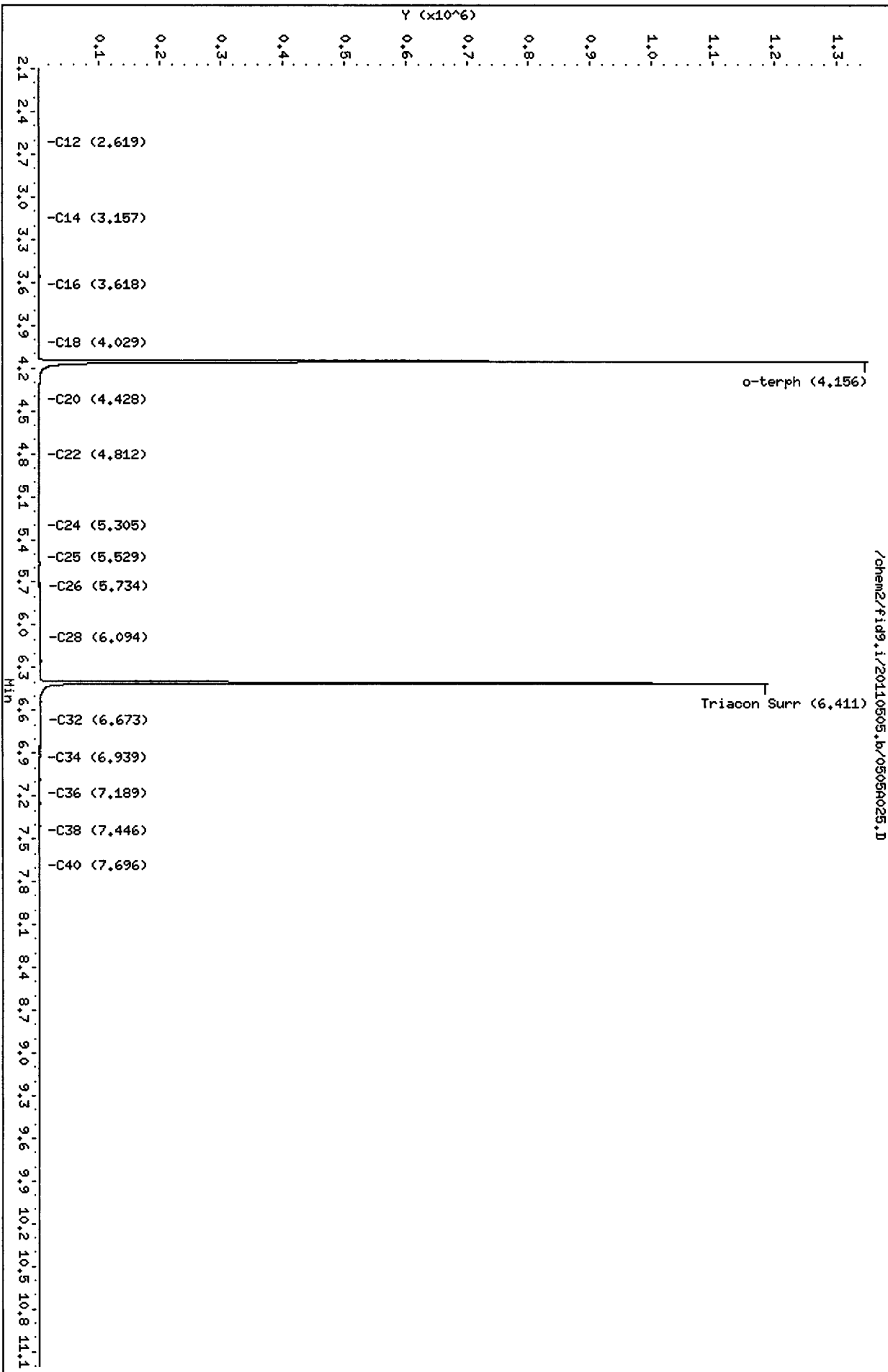
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

Page 1



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A026.D
 Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/09/2011

ARI ID: DIESEL#3
 Client ID: LORA LAKES APT. RI
 Injection: 05-MAY-2011 21:14
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.619 | 0.019 | 11638 | 10820 | GAS (Tol-C12) | 815117 | 38.80 |
| C8 | 1.333 | 0.062 | 2600 | 1733 | DIESEL (C12-C24) | 5858139 | 258.60 |
| C10 | 1.980 | 0.005 | 30158 | 26357 | M.OIL (C24-C38) | 191305 | 14.42 |
| C12 | 2.621 | 0.000 | 69826 | 52952 | AK-102 (C10-C25) | 6529881 | 255.81 M |
| C14 | 3.151 | -0.007 | 144379 | 109782 | AK-103 (C25-C36) | 159768 | 18.80 |
| C16 | 3.617 | -0.004 | 289626 | 168056 | | | |
| C18 | 4.037 | 0.002 | 260237 | 175821 | | | |
| C20 | 4.424 | 0.000 | 154400 | 113091 | | | |
| C22 | 4.814 | 0.002 | 56796 | 58371 | | | |
| C24 | 5.315 | 0.007 | 11794 | 22351 | | | |
| C25 | 5.530 | -0.003 | 14353 | 13466 | | | |
| C26 | 5.732 | -0.001 | 1216 | 215 | | | |
| C28 | 6.087 | -0.001 | 22017 | 16879 | | | |
| C32 | 6.681 | 0.002 | 136 | 120 | JP-4 (Tol-C14) | 1790737 | 109.21 |
| C34 | 6.953 | 0.012 | 51 | 13 | BUNKERC (C10-C38) | 6699454 | 899.93 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.193 | 0.002 | 26 | 10 | | | |
| C38 | 7.447 | 0.016 | 65 | 40 | | | |
| C40 | 7.698 | -0.002 | 80 | 57 | | | |
| o-terph | 4.158 | 0.006 | 1625443 | 995507 | JET-A (C10-C18) | 4737983 | 342.86 |
| Triacon Surr | 6.409 | 0.003 | 160 | 122 | JP8 (Tol-C16) | 3285268 | 186.73 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
 NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 995507 | 46.5 | 103.3 |
| Triacontane | 122 | 0.0 | 0.0 |

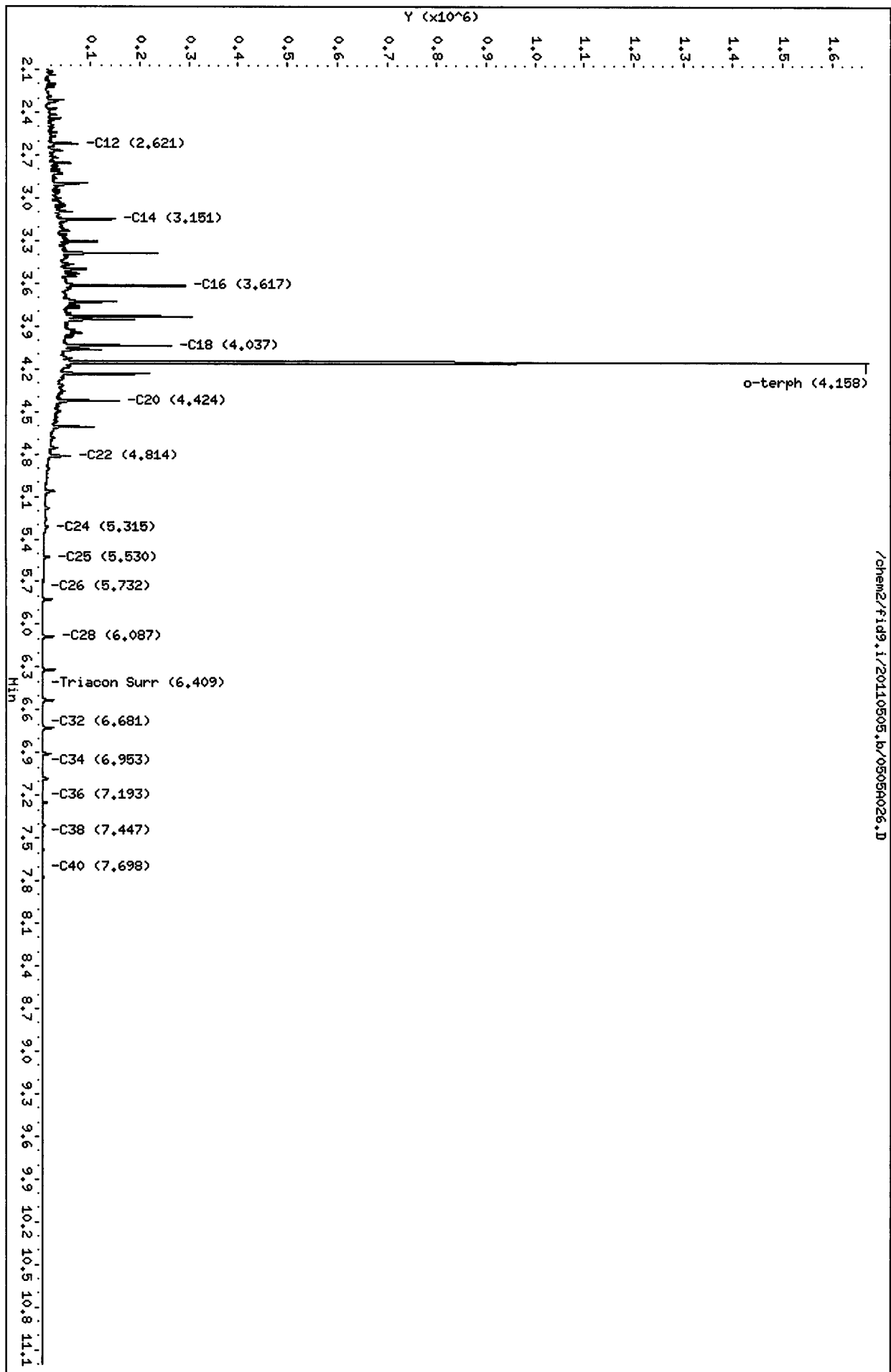
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/0505026.D
Date : 05-MAY-2011 21:14
Client ID: LORA LAKES APT. RI
Sample Info: DIESEL#3

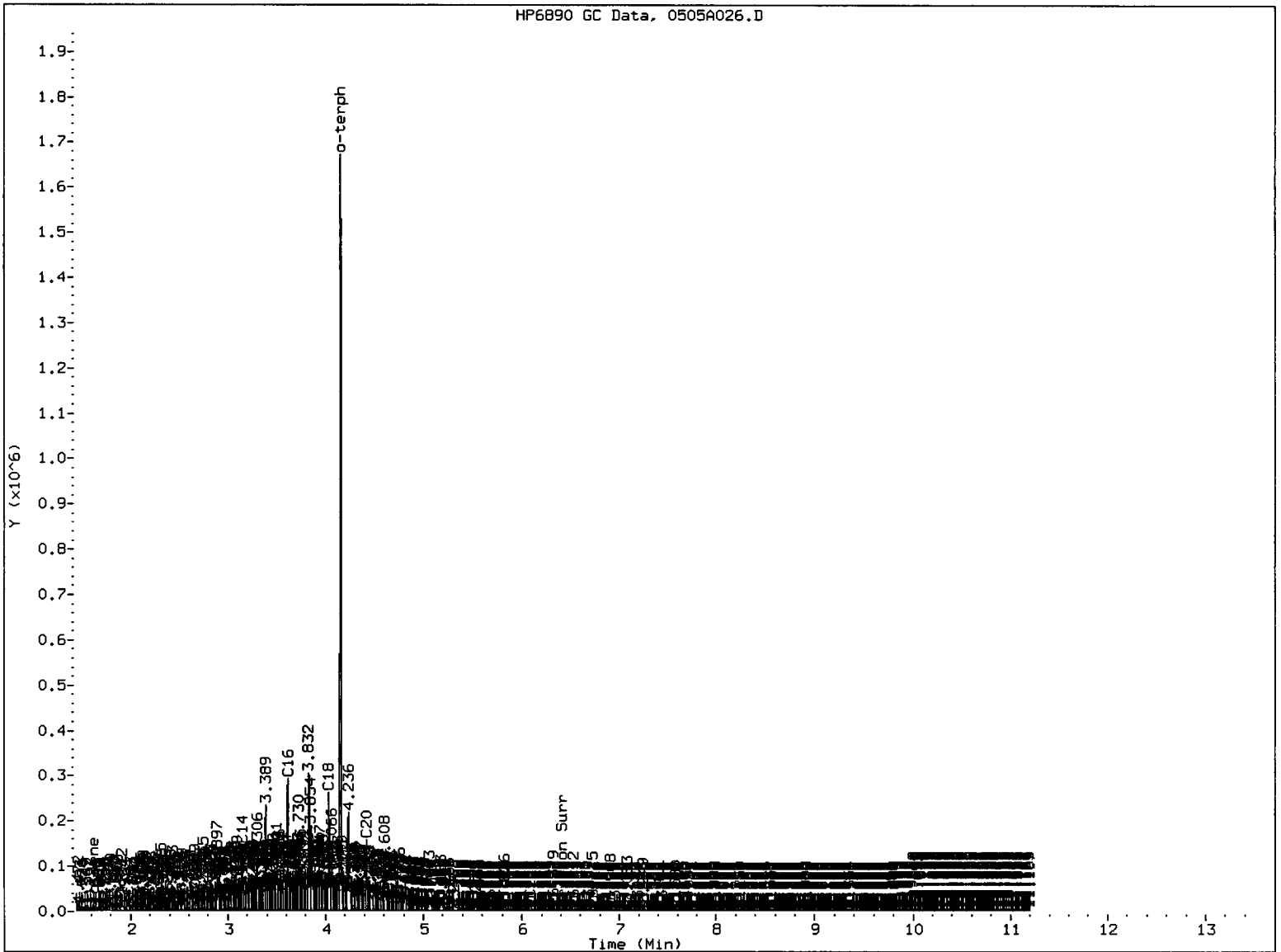
Column phase: RTX-1

/chem2/fid9.i/20110505.b/0505026.D

Instrument: fid9.i
Operator: MS
Column diameter: 0.25



HP6890 GC Data, 0505A026.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: me

Date: 5/19/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110505.b/0505A027.D
Method: /chem2/fid9.i/20110505.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/09/2011

ARI ID: MOIL#3
Client ID: LORA LAKES APT. RI
Injection: 05-MAY-2011 21:35
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.606 | 0.006 | 527 | 83 | GAS (Tol-C12) | 16941 | 0.81 |
| C8 | 1.346 | 0.075 | 1706 | 881 | DIESEL (C12-C24) | 897549 | 39.62 |
| C10 | 1.983 | 0.009 | 1002 | 909 | M.OIL (C24-C38) | 6640060 | 500.62 |
| C12 | 2.601 | -0.020 | 2039 | 2505 | AK-102 (C10-C25) | 1105072 | 43.29 |
| C14 | 3.161 | 0.003 | 93 | 64 | AK-103 (C25-C36) | 6035987 | 710.27 M |
| C16 | 3.611 | -0.010 | 219 | 253 | | | |
| C18 | 4.063 | 0.027 | 658 | 680 | | | |
| C20 | 4.426 | 0.002 | 5111 | 4761 | | | |
| C22 | 4.809 | -0.004 | 13121 | 4426 | | | |
| C24 | 5.307 | -0.001 | 26629 | 18303 | | | |
| C25 | 5.538 | 0.006 | 35552 | 24085 | | | |
| C26 | 5.733 | 0.000 | 44559 | 24612 | | | |
| C28 | 6.083 | -0.005 | 74502 | 92201 | | | |
| C32 | 6.678 | -0.001 | 74850 | 24847 | JP-4 (Tol-C14) | 23686 | 1.44 |
| C34 | 6.936 | -0.005 | 62254 | 17081 | BUNKERC (C10-C38) | 7544738 | 1013.48 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.192 | 0.001 | 44232 | 16273 | | | |
| C38 | 7.443 | 0.012 | 22101 | 9041 | | | |
| C40 | 7.695 | -0.004 | 8623 | 8728 | | | |
| o-terph | 4.145 | -0.006 | 802 | 858 | JET-A (C10-C18) | 46131 | 3.34 |
| Triacon Surr | 6.416 | 0.010 | 1418649 | 1018277 | JP8 (Tol-C16) | 29181 | 1.66 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.308) AK102(1.97 - 5.53) Jet A(1.97 - 4.04)
NW M.Oil(5.31 - 7.43) AK103(5.53 - 7.19) OR Diesel(1.97 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 858 | 0.0 | 0.1 |
| Triacontane | 1018277 | 57.8 | 128.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110505.b/05050027.D

Date : 05-MAY-2011 21:35

Client ID: LORA LAKES APT. RI

Sample Info: H01L#3

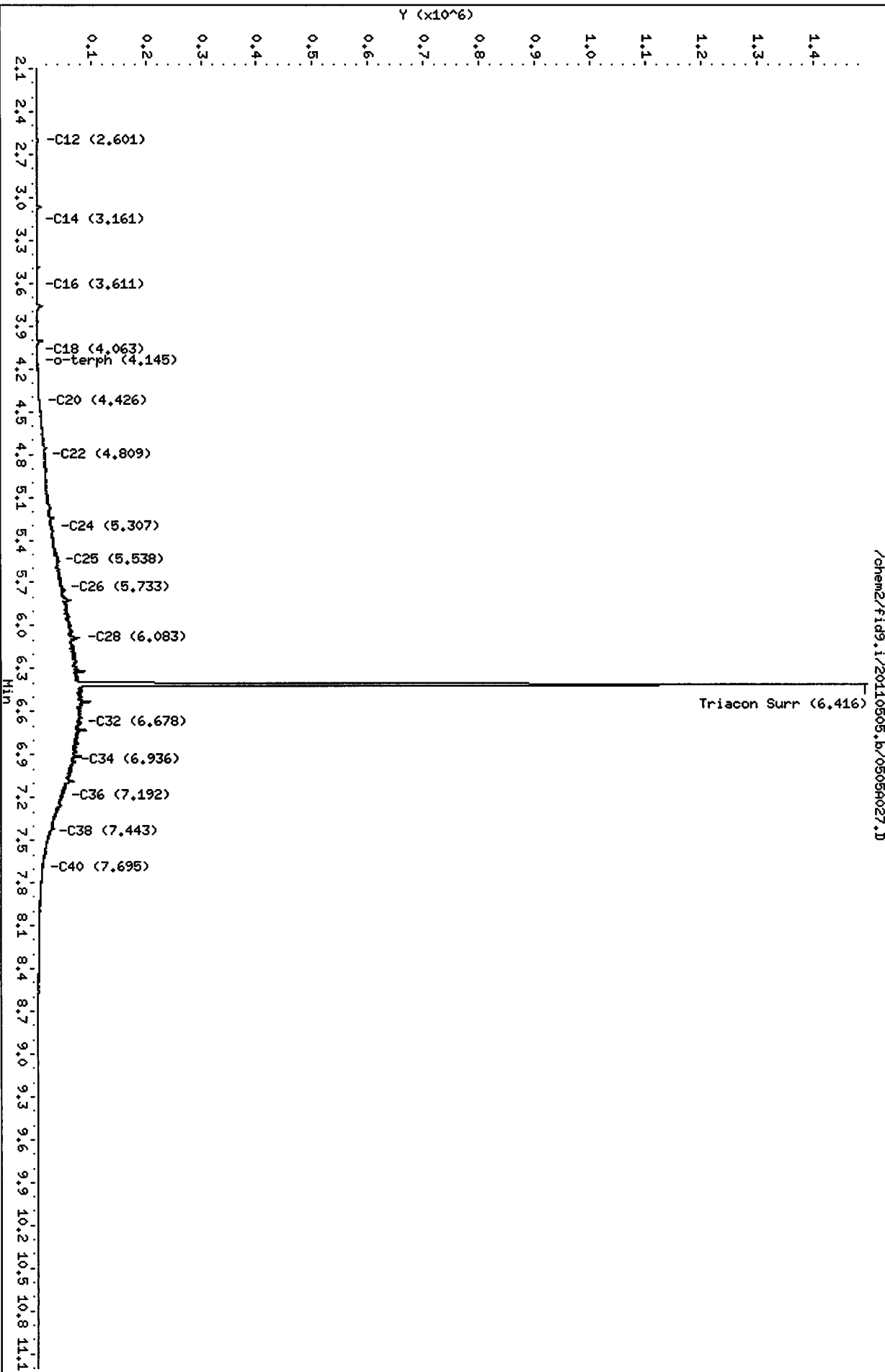
Column phase: RTX-1

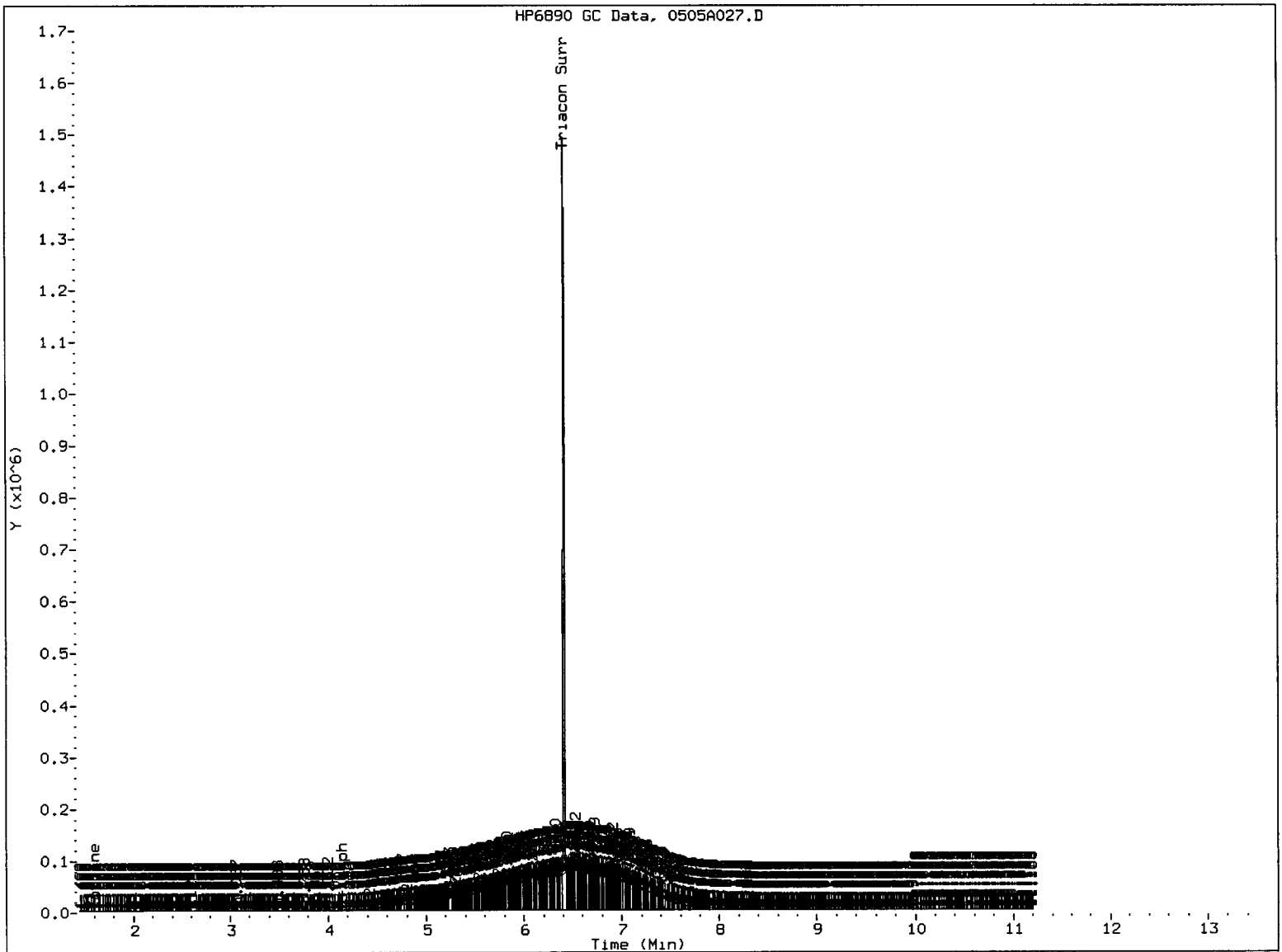
Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110505.b/05050027.D





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: AME

Date: 5/19/10



GC Analyst Notes / Corrective Action Log

ARI Project ID: SU74, SU73 Client ID: FLOYD-SNIKER - LORA LAKES

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): Diesel, M. Oil, o-Terph

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8

FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 1/20/11 Analysis Start: 5/10/11

| | | | |
|-----------------------------------|----------------------|----------------------------------|----------------------|
| Endrin/DDT Breakdown <15%? | YES / NO / <u>NA</u> | Method Blank In Control? | <u>YES</u> / NO |
| ICal Meets RF & %RSD Criteria? | <u>YES</u> / NO | LCS/LCSD Recovery In Control? | <u>YES</u> / NO |
| CCal Meets RF & %RSD Criteria? | <u>YES</u> / NO | Surrogate Recovery In Control? | <u>YES</u> / NO |
| Manual Integrations for ICal? | <u>YES</u> / NO | Manual Integrations for Samples? | <u>YES</u> / NO |
| Internal Standard Meets Criteria? | YES / NO / <u>NA</u> | Special Analysis Criteria Met? | YES / NO / <u>NA</u> |

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Sample SU74 A's o-Terphenyl surrogate recovery is 50.1%, the lower limit is 49%. Sample SU74 A is clean and its surrogate passes q.c. by 1%.

ms 5/12/11

Additional Details on Reverse: Yes / No

Analyst: Mo Date: 5/12/11

Reviewer: [Signature] Date: 5/12/11

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 5/10/11 Analysis: NWTP4D Analyst: ms

GC Program: TPH Column No: 977444 Column Type: vtx-1

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 1/20/11

| IS/SS | Ical/Ccal | LCS/ICV |
|-------|--|---------|
| | 1786-1 RT 1860-1 UB 1777-3 Diesel 1796-2 MOIL | |

| Time | Filename | LabID | ClientID | DF |
|------|----------|----------|-----------------------|----|
| 1 | 1005 | 0510A001 | D RINSE | 1 |
| 2 | 1026 | 0510A002 | D RT | 1 |
| 3 | 1048 | 0510A003 | D IB | 1 |
| 4 | 1110 | 0510A004 | D DIESEL#1 | 1 |
| 5 | 1131 | 0510A005 | D MOIL#1 | 1 |
| 6 | 1153 | 0510A006 | D BUNKERC#1 | 1 |
| 7 | 1219 | 0510A007 | D ST69MBS1 ST69MBS1 | 1 |
| 8 | 1241 | 0510A008 | D DIESEL#2 | 1 |
| 9 | 1303 | 0510A009 | D MOIL#2 | 1 |
| 10 | 1325 | 0510A010 | D BUNKERC#2 | 1 |
| 11 | 1347 | 0510A011 | D ST97MBW1 ST97MBW1 | 1 |
| 12 | 1408 | 0510A012 | D ST97LCSW1 ST97LCSW1 | 1 |
| 13 | 1430 | 0510A013 | D ST97LCSW1 ST97LCSW1 | 1 |
| 14 | 1452 | 0510A014 | D ST97C IT-DRUM1-WAT | 1 |
| 15 | 1514 | 0510A015 | D SU00A SDS3/5042611 | 1 |
| 16 | 1536 | 0510A016 | D DIESEL#3 | 1 |
| 17 | 1558 | 0510A017 | D MOIL#3 | 1 |
| 18 | 1620 | 0510A018 | D ST97QLS | 1 |
| 19 | 1642 | 0510A019 | D BUNKERC#3 | 1 |
| 20 | 1809 | 0510A020 | D IB | 1 |
| 21 | 1830 | 0510A021 | D SU73MBW1 | 1 |
| 22 | 1852 | 0510A022 | D SU73LCSW1 | 1 |

| Time | Filename | LabID | ClientID | DF |
|------|----------|----------|---------------|----|
| 23 | 1914 | 0510A023 | D SU73QLS | 1 |
| 24 | 1936 | 0510A024 | D SU73A | 1 |
| 25 | 1958 | 0510A025 | D SU73AMS | 1 |
| 26 | 2020 | 0510A026 | D SU73AMSD | 1 |
| 27 | 2041 | 0510A027 | D SU73B | 1 |
| 28 | 2103 | 0510A028 | D SU74A SU74A | 1 |
| 29 | 2125 | 0510A029 | D SU74B SU74B | 1 |
| 30 | 2147 | 0510A030 | D SU74C SU74C | 1 |
| 31 | 2209 | 0510A031 | D DIESEL#3 | 1 |
| 32 | 2230 | 0510A032 | D MOIL#3 | 1 |

ms
5/11/11

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20110510.b

ARI Job No.: SU73 Method: ftphfid9a.m Instrument: fid9.i Date: 10-MAY-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

1830 0510A021.D SU73MBW1 SU73MBW1 1 NO MANUAL INTEGRATION

1852 0510A022.D SU73LCSW1 SU73LCSW1 1 o-terph,

1936 0510A024.D SU73A MW-01-0429 1 o-terph, Triacon Surr,

1958 0510A025.D SU73AMS MW-01-0429 1 o-terph, Triacon Surr,

2020 0510A026.D SU73AMSD MW-01-0429 1 o-terph, Triacon Surr,

2041 0510A027.D SU73B MW-01-0429 1 o-terph, Triacon Surr,

2103 0510A028.D SU74A B312-04291 1 NO MANUAL INTEGRATION

2125 0510A029.D SU74B B310-04291 1 NO MANUAL INTEGRATION

2147 0510A030.D SU74C B311-04291 1 NO MANUAL INTEGRATION

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A002.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: RT
Client ID: RT
Injection: 10-MAY-2011 10:26
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|-------|---------|--------|-------------------|------------|--------|
| Toluene | 1.599 | 0.000 | 1392 | 1349 | GAS (Tol-C12) | 571971 | 27.22 |
| C8 | 1.271 | 0.000 | 247732 | 247230 | DIESEL (C12-C24) | 1808262 | 79.82 |
| C10 | 1.975 | 0.000 | 490978 | 280302 | M.OIL (C24-C38) | 1762867 | 132.91 |
| C12 | 2.618 | 0.000 | 276943 | 244079 | AK-102 (C10-C25) | 2356770 | 92.33 |
| C14 | 3.156 | 0.000 | 317011 | 260609 | AK-103 (C25-C36) | 1686590 | 198.47 |
| C16 | 3.621 | 0.000 | 390089 | 280334 | | | |
| C18 | 4.039 | 0.000 | 556106 | 287832 | | | |
| C20 | 4.428 | 0.000 | 555782 | 298524 | | | |
| C22 | 4.816 | 0.000 | 451269 | 305741 | | | |
| C24 | 5.310 | 0.000 | 463868 | 314389 | | | |
| C25 | 5.535 | 0.000 | 626474 | 434817 | | | |
| C26 | 5.738 | 0.000 | 502192 | 320358 | | | |
| C28 | 6.094 | 0.000 | 560198 | 318648 | | | |
| C32 | 6.686 | 0.000 | 419309 | 258046 | JP-4 (Tol-C14) | 865179 | 52.77 |
| C34 | 6.948 | 0.000 | 320352 | 192860 | BUNKERC (C10-C38) | 4118547 | 553.24 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.197 | 0.000 | 192732 | 122211 | | | |
| C38 | 7.435 | 0.000 | 69188 | 63263 | | | |
| C40 | 7.723 | 0.000 | 11090 | 14373 | | | |
| o-terph | 4.157 | 0.000 | 1601590 | 972475 | JET-A (C10-C18) | 1424651 | 103.09 |
| Triacon Surr | 6.415 | 0.000 | 1291580 | 925610 | JP8 (Tol-C16) | 1154682 | 65.63 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 972475 | 45.4 | 100.9 |
| Triacontane | 925610 | 52.5 | 116.7 |

ms 5/12/11

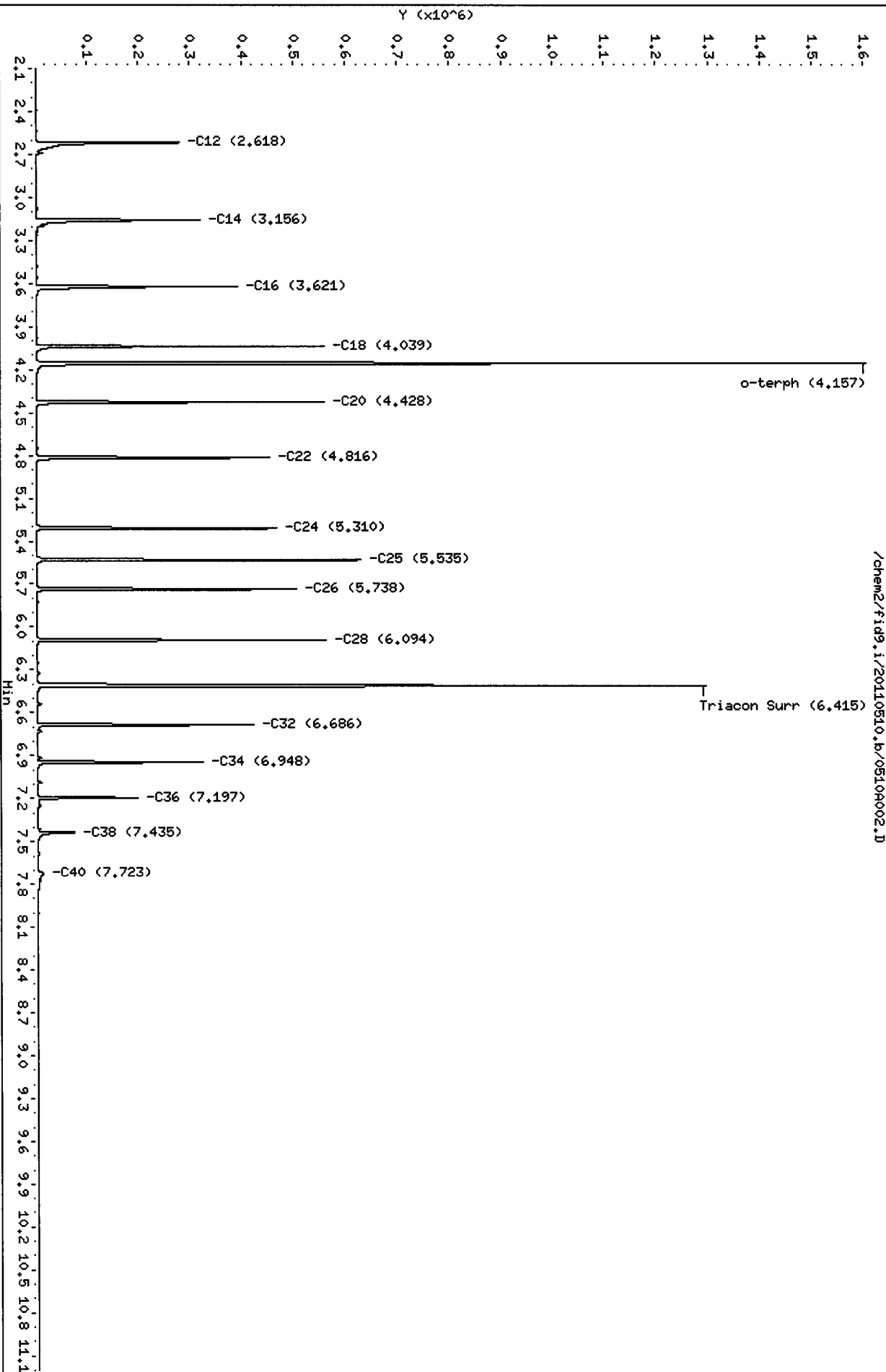
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/0510A002.D
Date: 10-May-2011 10:26
Client ID: RT
Sample Info: RT

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A003.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: IB
 Client ID: IB
 Injection: 10-MAY-2011 10:48
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.606 | 0.006 | 902 | 641 | GAS (Tol-C12) | 33171 | 1.58 |
| C8 | 1.353 | 0.082 | 2576 | 1989 | DIESEL (C12-C24) | 48448 | 2.14 |
| C10 | 1.982 | 0.006 | 1428 | 1797 | M.OIL (C24-C38) | 57761 | 4.35 |
| C12 | 2.624 | 0.006 | 482 | 1067 | AK-102 (C10-C25) | 66124 | 2.59 |
| C14 | 3.158 | 0.002 | 378 | 444 | AK-103 (C25-C36) | 50202 | 5.91 |
| C16 | 3.625 | 0.003 | 263 | 60 | | | |
| C18 | 4.035 | -0.004 | 270 | 103 | | | |
| C20 | 4.422 | -0.006 | 336 | 360 | | | |
| C22 | 4.819 | 0.003 | 215 | 264 | | | |
| C24 | 5.311 | 0.000 | 114 | 36 | | | |
| C25 | 5.532 | -0.003 | 522 | 342 | | | |
| C26 | 5.738 | 0.000 | 27 | 9 | | | |
| C28 | 6.096 | 0.002 | 2002 | 1387 | | | |
| C32 | 6.692 | 0.006 | 660 | 1104 | JP-4 (Tol-C14) | 42053 | 2.56 |
| C34 | 6.946 | -0.002 | 393 | 352 | BUNKERC (C10-C38) | 123605 | 16.60 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.198 | 0.001 | 323 | 75 | | | |
| C38 | 7.437 | 0.002 | 397 | 257 | | | |
| C40 | 7.725 | 0.001 | 475 | 176 | | | |
| o-terph | 4.157 | 0.000 | 1425815 | 954726 | JET-A (C10-C18) | 39437 | 2.85 |
| Triacon Surr | 6.412 | -0.003 | 1278492 | 898607 | JP8 (Tol-C16) | 49221 | 2.80 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 954726 | 44.6 | 99.1 |
| Triacontane | 898607 | 51.0 | 113.3 |

MS 5/12/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05100003.D

Date: 10-MAY-2011 10:48

Client ID: IB

Sample Info: IB

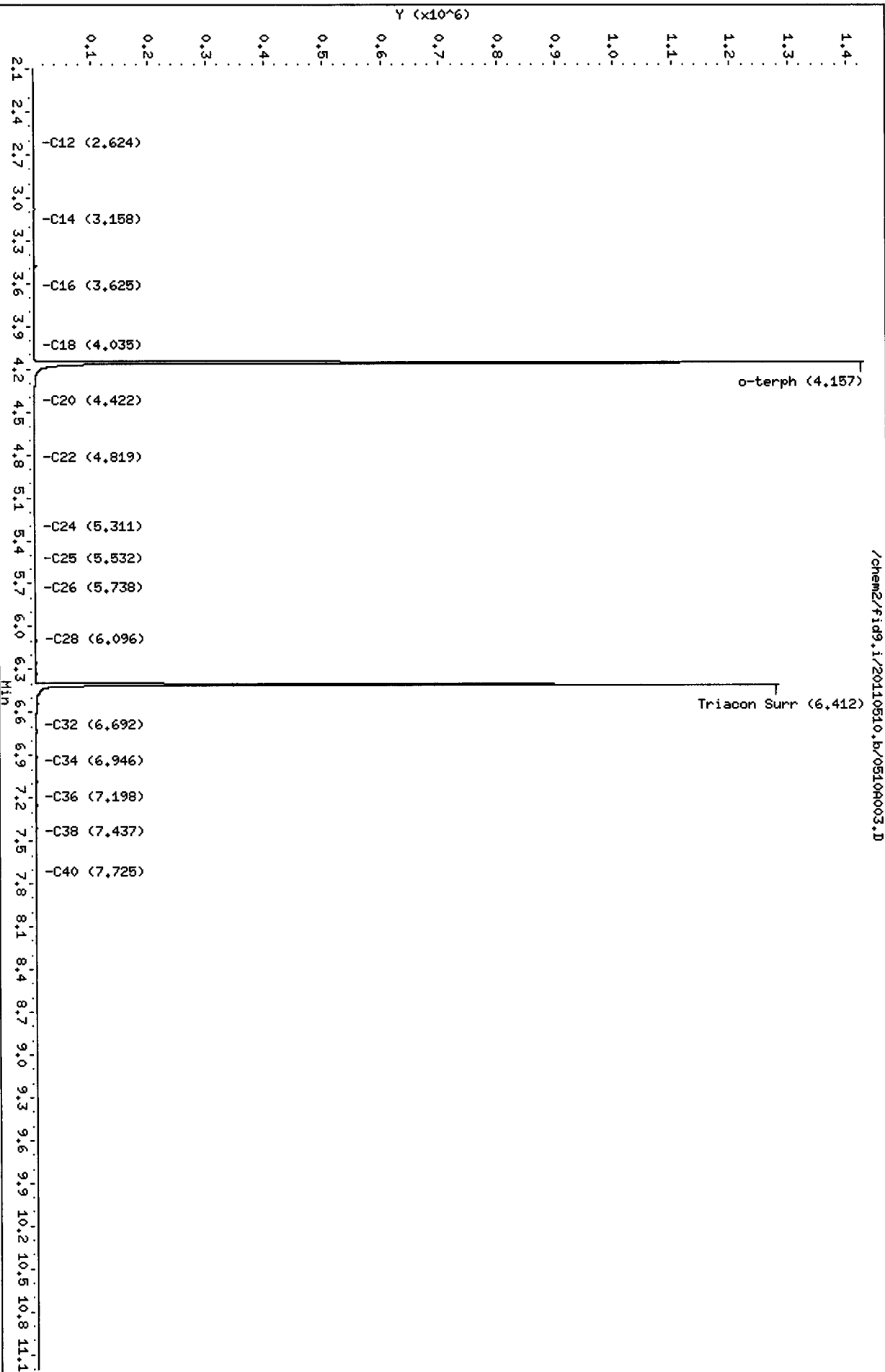
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110510.b/05100003.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A016.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: DIESEL#3
 Client ID: LORA LAKES
 Injection: 10-MAY-2011 15:36
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.620 | 0.021 | 9561 | 14446 | GAS (Tol-C12) | 735151 | 34.99 |
| C8 | 1.336 | 0.065 | 2071 | 2235 | DIESEL (C12-C24) | 5657168 | 249.73 |
| C10 | 1.979 | 0.004 | 26090 | 24720 | M.OIL (C24-C38) | 86783 | 6.54 |
| C12 | 2.622 | 0.004 | 64793 | 50937 | AK-102 (C10-C25) | 6255450 | 245.06 M |
| C14 | 3.151 | -0.004 | 140280 | 104672 | AK-103 (C25-C36) | 59887 | 7.05 |
| C16 | 3.617 | -0.004 | 286332 | 161437 | | | |
| C18 | 4.037 | -0.001 | 247860 | 178113 | | | |
| C20 | 4.425 | -0.003 | 159657 | 108282 | | | |
| C22 | 4.815 | -0.001 | 57075 | 50445 | | | |
| C24 | 5.316 | 0.005 | 11184 | 13873 | | | |
| C25 | 5.529 | -0.006 | 2158 | 1214 | | | |
| C26 | 5.742 | 0.004 | 1081 | 627 | | | |
| C28 | 6.097 | 0.003 | 1985 | 1766 | | | |
| C32 | 6.684 | -0.001 | 47 | 18 | JP-4 (Tol-C14) | 1697927 | 103.55 |
| C34 | 6.959 | 0.012 | 40 | 10 | BUNKERC (C10-C38) | 6319997 | 848.96 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.198 | 0.002 | 62 | 49 | | | |
| C38 | 7.438 | 0.002 | 144 | 129 | | | |
| C40 | 7.725 | 0.002 | 183 | 162 | | | |
| o-terph | 4.157 | 0.000 | 1656515 | 971292 | JET-A (C10-C18) | 4510951 | 326.43 |
| Triacon Surr | 6.417 | 0.002 | 101 | 46 | JP8 (Tol-C16) | 3111985 | 176.88 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 971292 | 45.4 | 100.8 |
| Triacontane | 46 | 0.0 | 0.0 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/0510A016.D

Date: 10-MAY-2011 15:36

Client ID: LORA LAKES

Sample Info: DIESEL#3

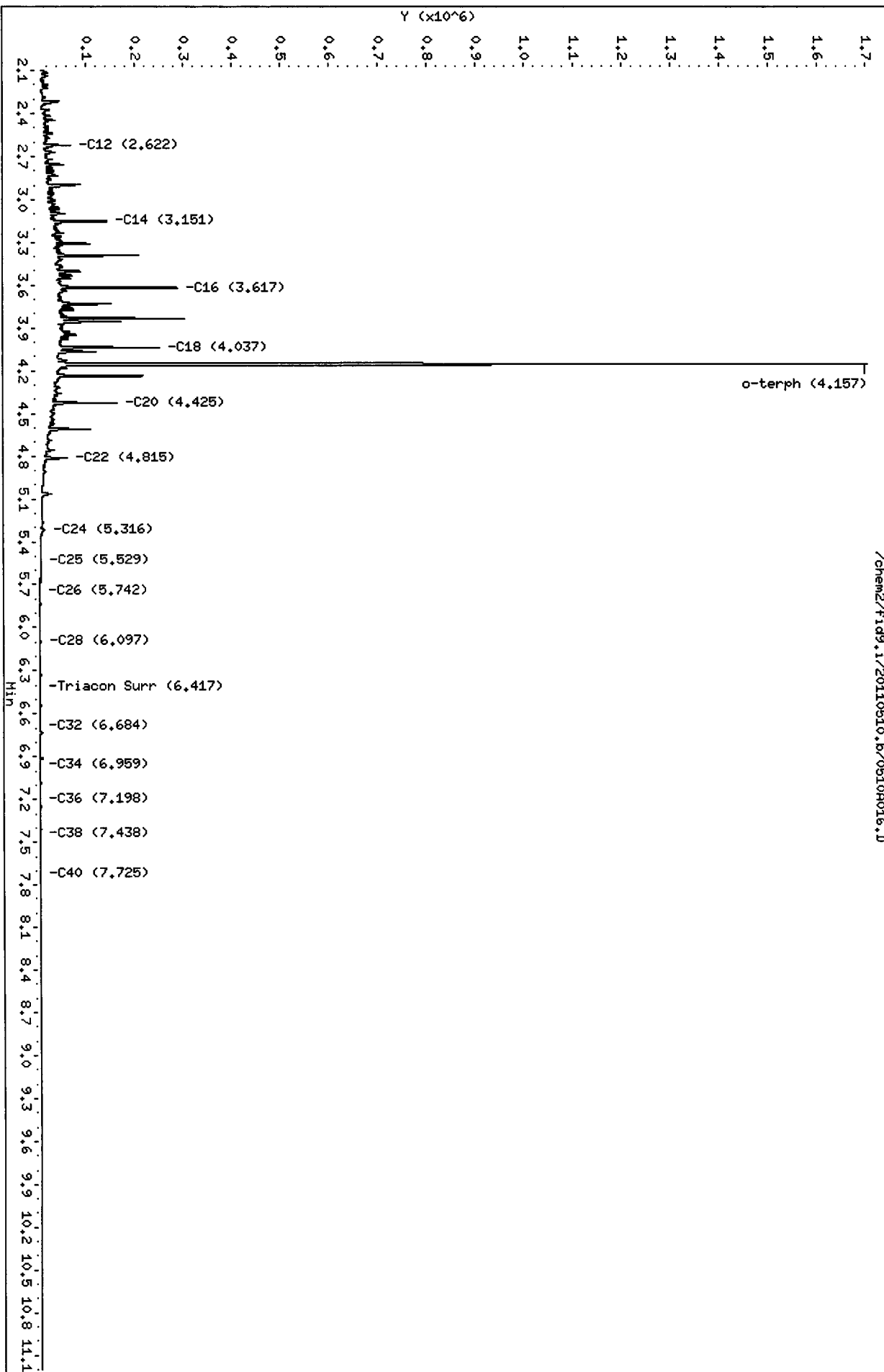
Column phase: RTX-1

Instrument: fid9.i

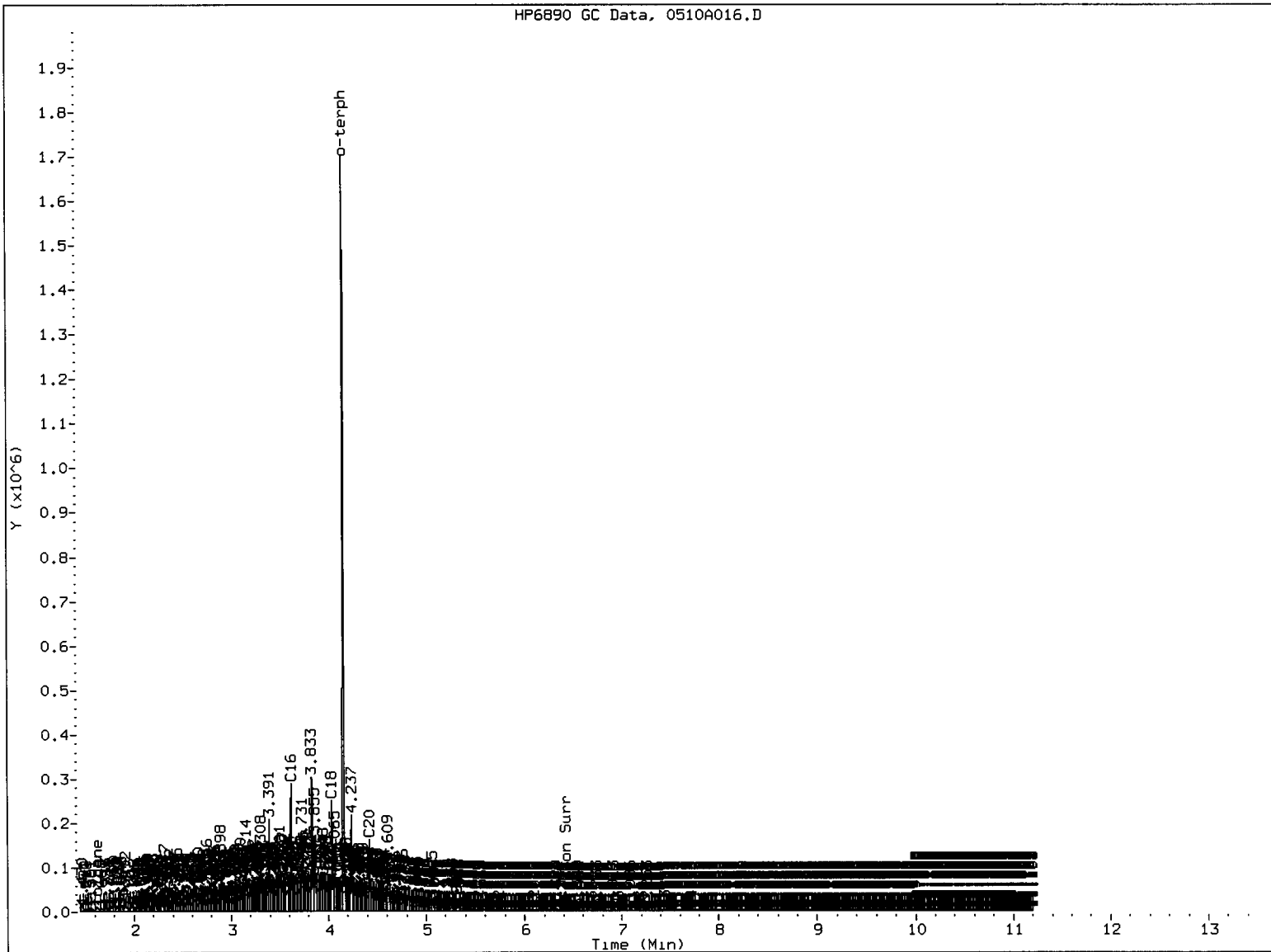
Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110510.b/0510A016.D



HP6890 GC Data, 0510A016.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: Am

Date: 5/12/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A017.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: MOIL#3
 Client ID: LORA LAKES
 Injection: 10-MAY-2011 15:58
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.610 | 0.011 | 860 | 1339 | GAS (Tol-C12) | 18672 | 0.89 |
| C8 | 1.354 | 0.083 | 2436 | 1858 | DIESEL (C12-C24) | 900146 | 39.74 |
| C10 | 1.980 | 0.005 | 864 | 1027 | M.OIL (C24-C38) | 6184273 | 466.26 |
| C12 | 2.603 | -0.015 | 1483 | 1904 | AK-102 (C10-C25) | 1106335 | 43.34 |
| C14 | 3.151 | -0.004 | 89 | 30 | AK-103 (C25-C36) | 5660369 | 666.07 M |
| C16 | 3.629 | 0.007 | 40 | 9 | | | |
| C18 | 4.051 | 0.012 | 444 | 87 | | | |
| C20 | 4.428 | 0.000 | 5291 | 5581 | | | |
| C22 | 4.817 | 0.001 | 13666 | 6179 | | | |
| C24 | 5.311 | 0.001 | 26624 | 23441 | | | |
| C25 | 5.542 | 0.007 | 36847 | 21321 | | | |
| C26 | 5.740 | 0.002 | 44293 | 17892 | | | |
| C28 | 6.088 | -0.006 | 73005 | 114722 | | | |
| C32 | 6.685 | -0.001 | 68850 | 67676 | JP-4 (Tol-C14) | 24737 | 1.51 |
| C34 | 6.949 | 0.001 | 55639 | 16088 | BUNKERC (C10-C38) | 7091766 | 952.63 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.199 | 0.002 | 35282 | 24564 | | | |
| C38 | 7.434 | -0.001 | 22404 | 17249 | | | |
| C40 | 7.723 | -0.001 | 7776 | 5517 | | | |
| o-terph | 4.169 | 0.012 | 1311 | 1849 | JET-A (C10-C18) | 41421 | 3.00 |
| Triacon Surr | 6.417 | 0.002 | 1316830 | 979156 | JP8 (Tol-C16) | 28484 | 1.62 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 1849 | 0.1 | 0.2 |
| Triacontane | 979156 | 55.6 | 123.4 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05104017.D

Date: 10-MAY-2011 15:58

Client ID: LORA LAKES

Sample Info: M01L#3

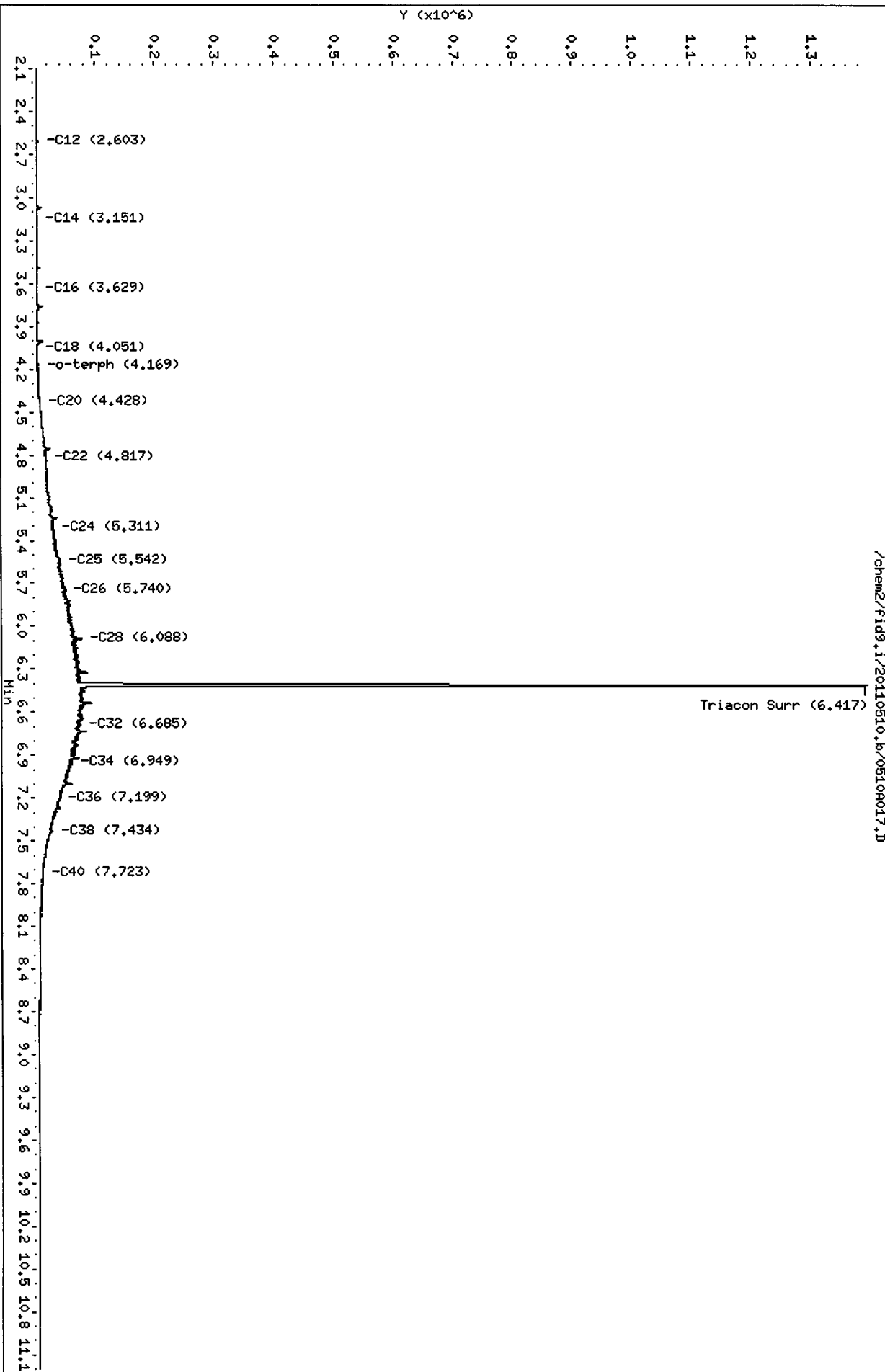
Column phase: RTX-1

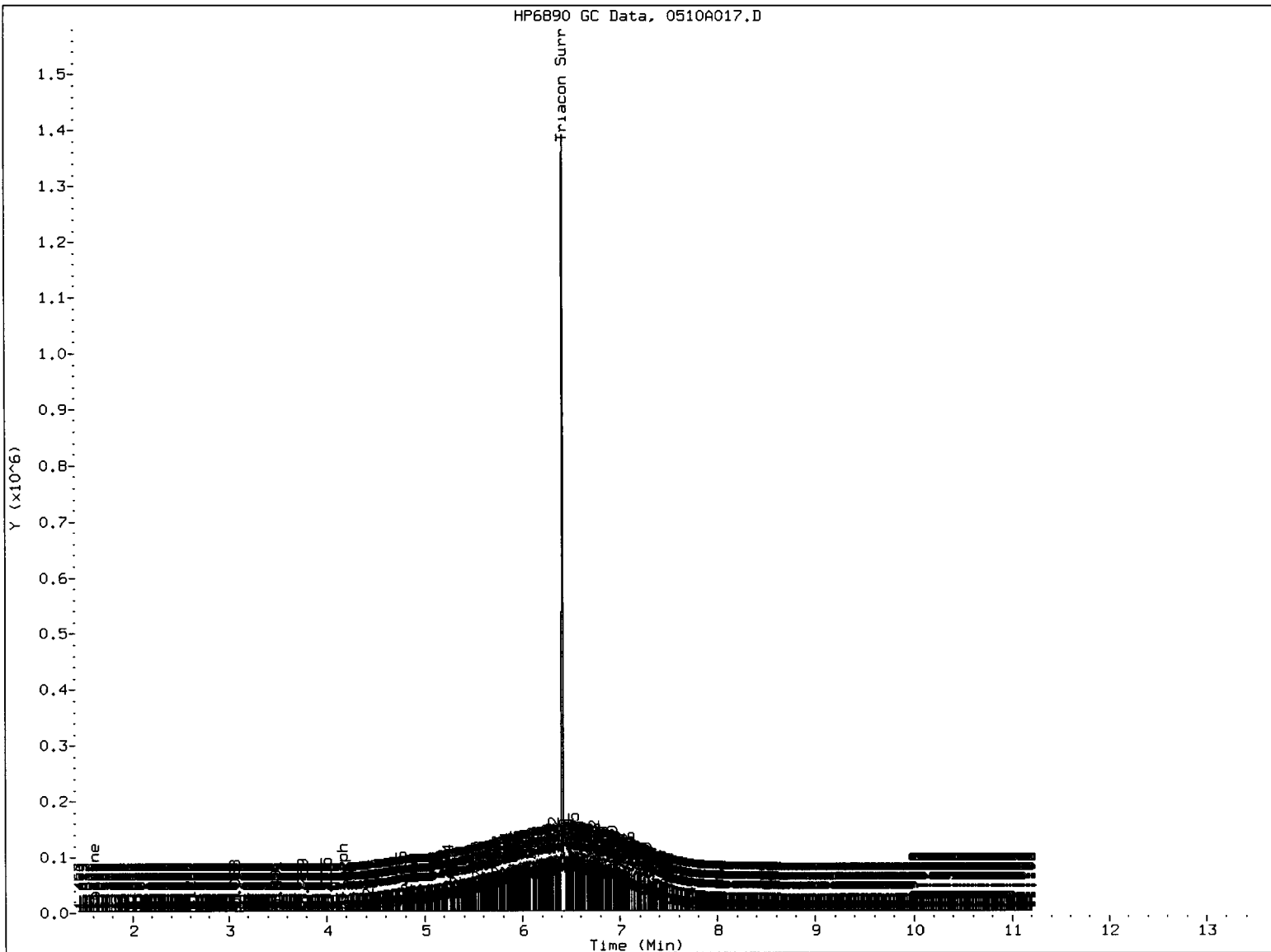
Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110510.b/05104017.D





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *AM*

Date: *5/12/11*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A021.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: SU73MBW1
Client ID: SU73MBW1
Injection: 10-MAY-2011 18:30
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.595 | -0.004 | 723 | 242 | GAS (Tol-C12) | 25428 | 1.21 |
| C8 | 1.342 | 0.071 | 2272 | 1293 | DIESEL (C12-C24) | 68373 | 3.02 |
| C10 | 1.981 | 0.006 | 833 | 938 | M.OIL (C24-C38) | 100256 | 7.56 |
| C12 | 2.613 | -0.005 | 126 | 75 | AK-102 (C10-C25) | 82300 | 3.22 |
| C14 | 3.160 | 0.004 | 300 | 180 | AK-103 (C25-C36) | 82408 | 9.70 |
| C16 | 3.620 | -0.002 | 784 | 497 | | | |
| C18 | 4.046 | 0.008 | 737 | 557 | | | |
| C20 | 4.432 | 0.004 | 581 | 625 | | | |
| C22 | 4.819 | 0.002 | 423 | 431 | | | |
| C24 | 5.317 | 0.007 | 147 | 103 | | | |
| C25 | 5.533 | -0.002 | 281 | 235 | | | |
| C26 | 5.737 | -0.001 | 100 | 72 | | | |
| C28 | 6.096 | 0.002 | 1271 | 888 | | | |
| C32 | 6.694 | 0.009 | 1089 | 1525 | JP-4 (Tol-C14) | 35121 | 2.14 |
| C34 | 6.948 | 0.000 | 189 | 28 | BUNKERC (C10-C38) | 181593 | 24.39 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.201 | 0.004 | 8046 | 1734 | | | |
| C38 | 7.423 | -0.013 | 975 | 1536 | | | |
| C40 | 7.727 | 0.004 | 339 | 223 | | | |
| o-terph | 4.156 | -0.001 | 1115840 | 762873 | JET-A (C10-C18) | 57758 | 4.18 |
| Triacon Surr | 6.410 | -0.005 | 1040173 | 711846 | JP8 (Tol-C16) | 51200 | 2.91 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 762873 | 35.6 | 79.2 |
| Triacontane | 711846 | 40.4 | 89.7 |

MS 5/12/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/0510A021.D

Date: 10-MAY-2011 18:30

Client ID: SU73HBML

Sample Info: SU73HBML

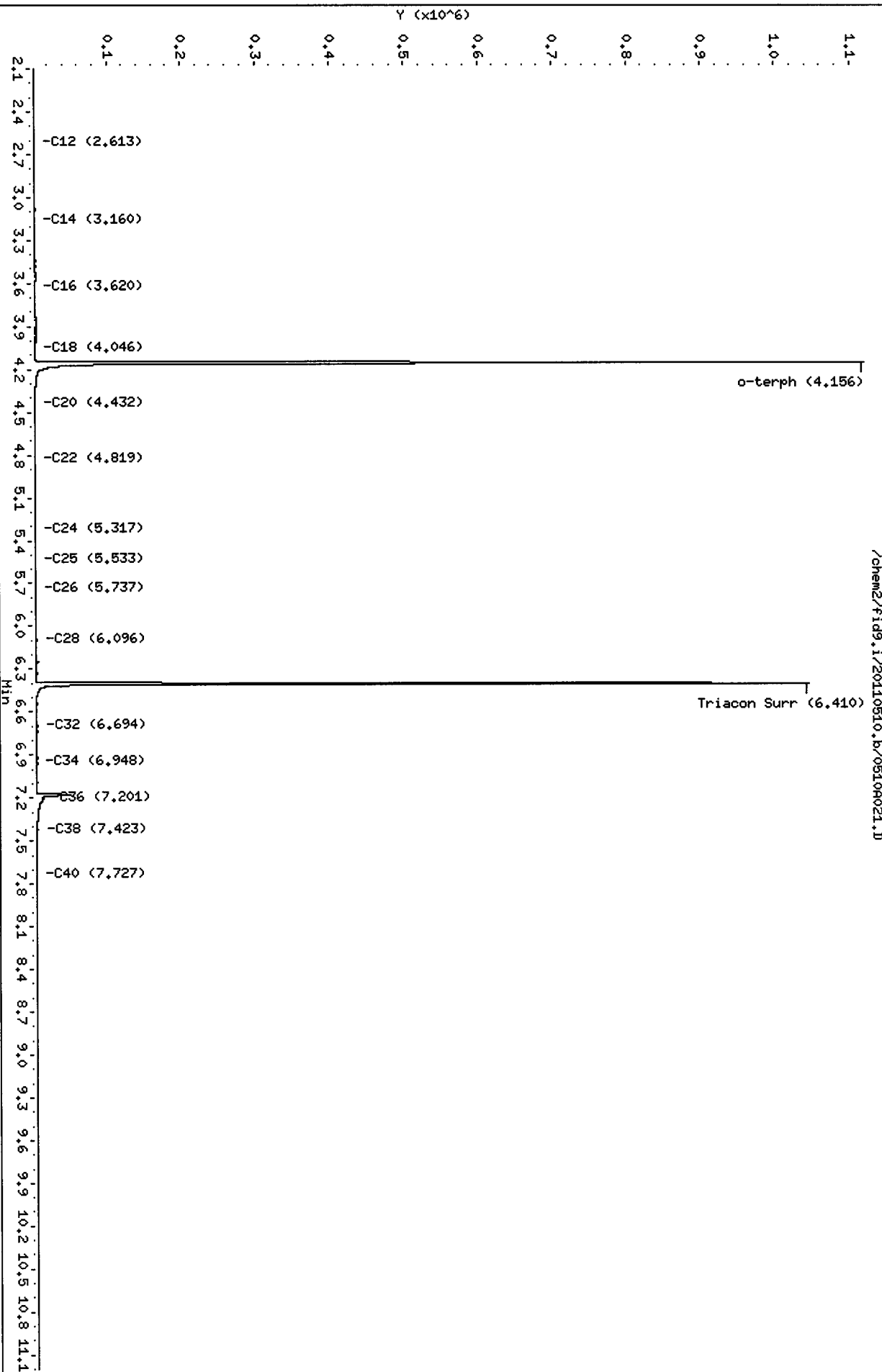
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

Page 1



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A022.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: SU73LCSW1
 Client ID: SU73LCSW1
 Injection: 10-MAY-2011 18:52
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|---------|
| Toluene | 1.612 | 0.013 | 41347 | 28134 | GAS (Tol-C12) | 2890875 | 137.60 |
| C8 | 1.330 | 0.059 | 3188 | 2662 | DIESEL (C12-C24) | 24781147 | 1093.94 |
| C10 | 1.975 | 0.000 | 104008 | 93950 | M.OIL (C24-C38) | 356943 | 26.91 |
| C12 | 2.614 | -0.004 | 267849 | 213405 | AK-102 (C10-C25) | 27249063 | 1067.50 |
| C14 | 3.148 | -0.008 | 615372 | 463120 | AK-103 (C25-C36) | 252118 | 29.67 |
| C16 | 3.621 | 0.000 | 1150437 | 786335 | | | |
| C18 | 4.047 | 0.008 | 1025563 | 838211 | | | |
| C20 | 4.430 | 0.003 | 756203 | 540038 | | | |
| C22 | 4.817 | 0.001 | 285094 | 236345 | | | |
| C24 | 5.309 | -0.001 | 84881 | 72297 | | | |
| C25 | 5.534 | -0.001 | 35954 | 34586 | | | |
| C26 | 5.738 | 0.000 | 15178 | 18530 | | | |
| C28 | 6.095 | 0.001 | 4265 | 4502 | | | |
| C32 | 6.683 | -0.002 | 344 | 255 | JP-4 (Tol-C14) | 6676458 | 407.19 |
| C34 | 6.945 | -0.003 | 87 | 19 | BUNKERC (C10-C38) | 27512643 | 3695.75 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.199 | 0.002 | 5858 | 2851 | | | |
| C38 | 7.414 | -0.021 | 847 | 999 | | | |
| C40 | 7.723 | -0.001 | 103 | 55 | | | |
| o-terph | 4.160 | 0.003 | 1608353 | 1190504 | JET-A (C10-C18) | 19564961 | 1415.79 |
| Triacon Surr | 6.410 | -0.005 | 1011398 | 688946 | JP8 (Tol-C16) | 12983274 | 737.94 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1190504 | 55.6 | 123.5 |
| Triacontane | 688946 | 39.1 | 86.9 |

ms 5/12/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05100022.D

Date: 10-MAY-2011 18:52

Client ID: SU73LCSM4

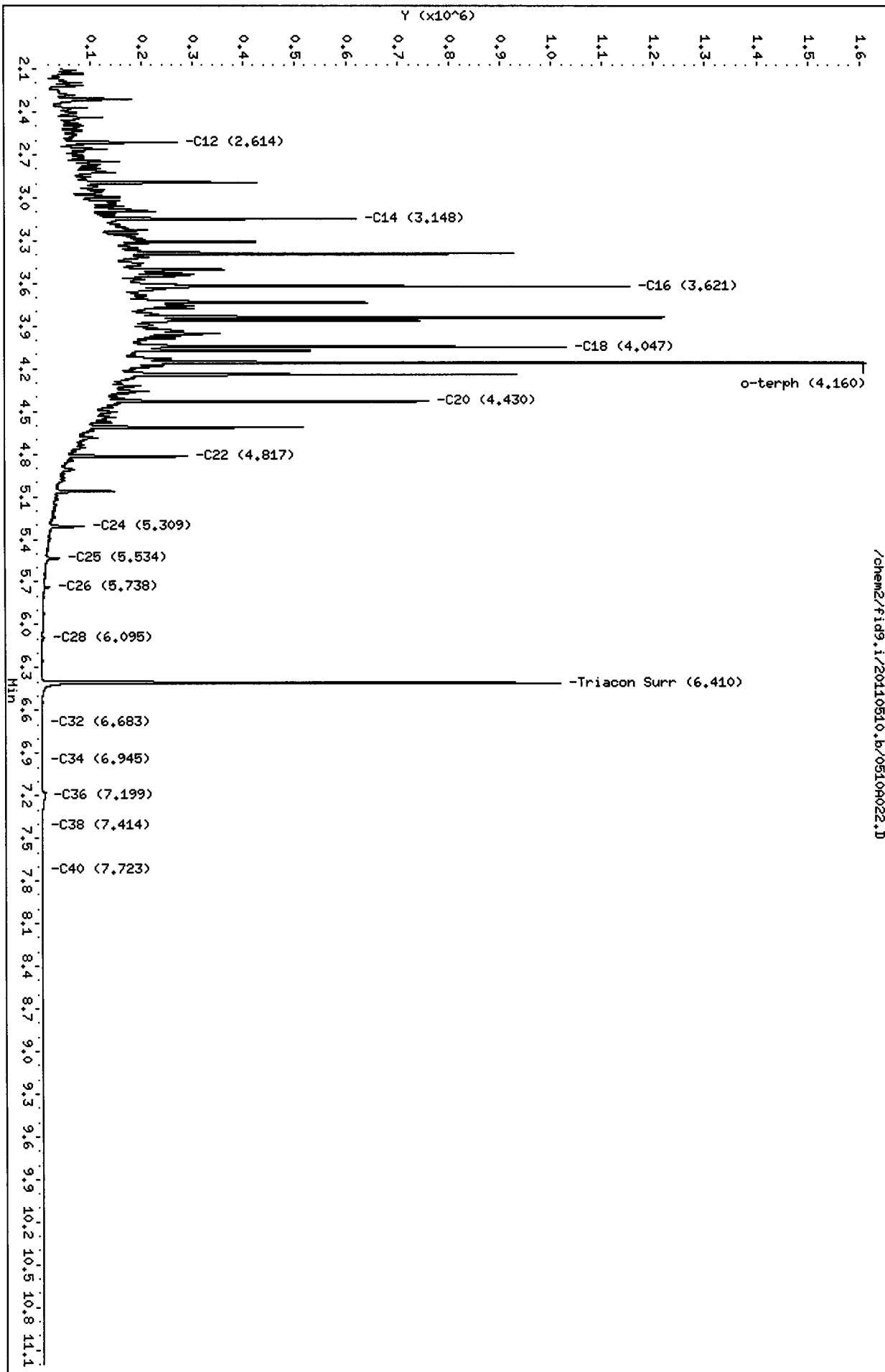
Sample Info: SU73LCSM4

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

/chem2/fid9.i/20110510.b/05100022.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A022.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: SU73LCSW1
 Client ID: SU73LCSW1
 Injection: 10-MAY-2011 18:52
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-----------|
| Toluene | 1.612 | 0.013 | 41347 | 28134 | GAS (Tol-C12) | 2890875 | 137.60 |
| C8 | 1.330 | 0.059 | 3188 | 2662 | DIESEL (C12-C24) | 25243454 | 1114.35 |
| C10 | 1.975 | 0.000 | 104008 | 93950 | M.OIL (C24-C38) | 356943 | 26.91 |
| C12 | 2.614 | -0.004 | 267849 | 213405 | AK-102 (C10-C25) | 27711369 | 1085.62 M |
| C14 | 3.148 | -0.008 | 615372 | 463120 | AK-103 (C25-C36) | 252118 | 29.67 |
| C16 | 3.621 | 0.000 | 1150437 | 786335 | | | |
| C18 | 4.047 | 0.008 | 1025563 | 838211 | | | |
| C20 | 4.430 | 0.003 | 756203 | 540038 | | | |
| C22 | 4.817 | 0.001 | 285094 | 236345 | | | |
| C24 | 5.309 | -0.001 | 84881 | 72297 | | | |
| C25 | 5.534 | -0.001 | 35954 | 34586 | | | |
| C26 | 5.738 | 0.000 | 15178 | 18530 | | | |
| C28 | 6.095 | 0.001 | 4265 | 4502 | | | |
| C32 | 6.683 | -0.002 | 344 | 255 | JP-4 (Tol-C14) | 6676458 | 407.19 |
| C34 | 6.945 | -0.003 | 87 | 19 | BUNKERC (C10-C38) | 27974949 | 3757.85 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.199 | 0.002 | 5858 | 2851 | | | |
| C38 | 7.414 | -0.021 | 847 | 999 | | | |
| C40 | 7.723 | -0.001 | 103 | 55 | | | |
| o-terph | 4.160 | 0.003 | 1377748 | 732284 | JET-A (C10-C18) | 19564961 | 1415.79 |
| Triacon Surr | 6.410 | -0.005 | 1011398 | 688946 | JP8 (Tol-C16) | 12983274 | 737.94 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 732284 | 34.2 | 76.0 |
| Triacontane | 688946 | 39.1 | 86.9 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/0510A022.D

Date: 10-MAY-2011 18:52

Client ID: SU73LCSM4

Sample Info: SU73LCSM4

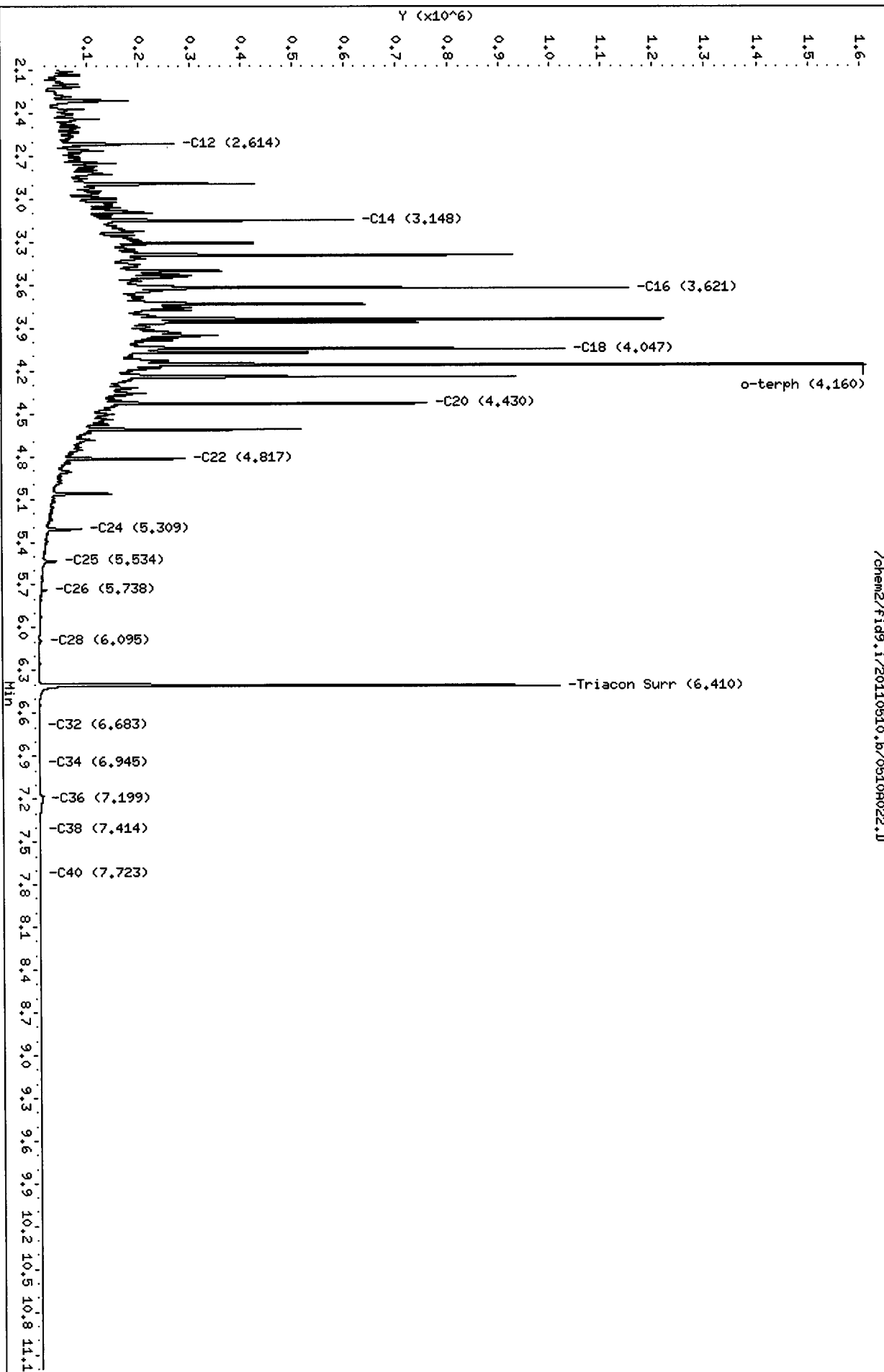
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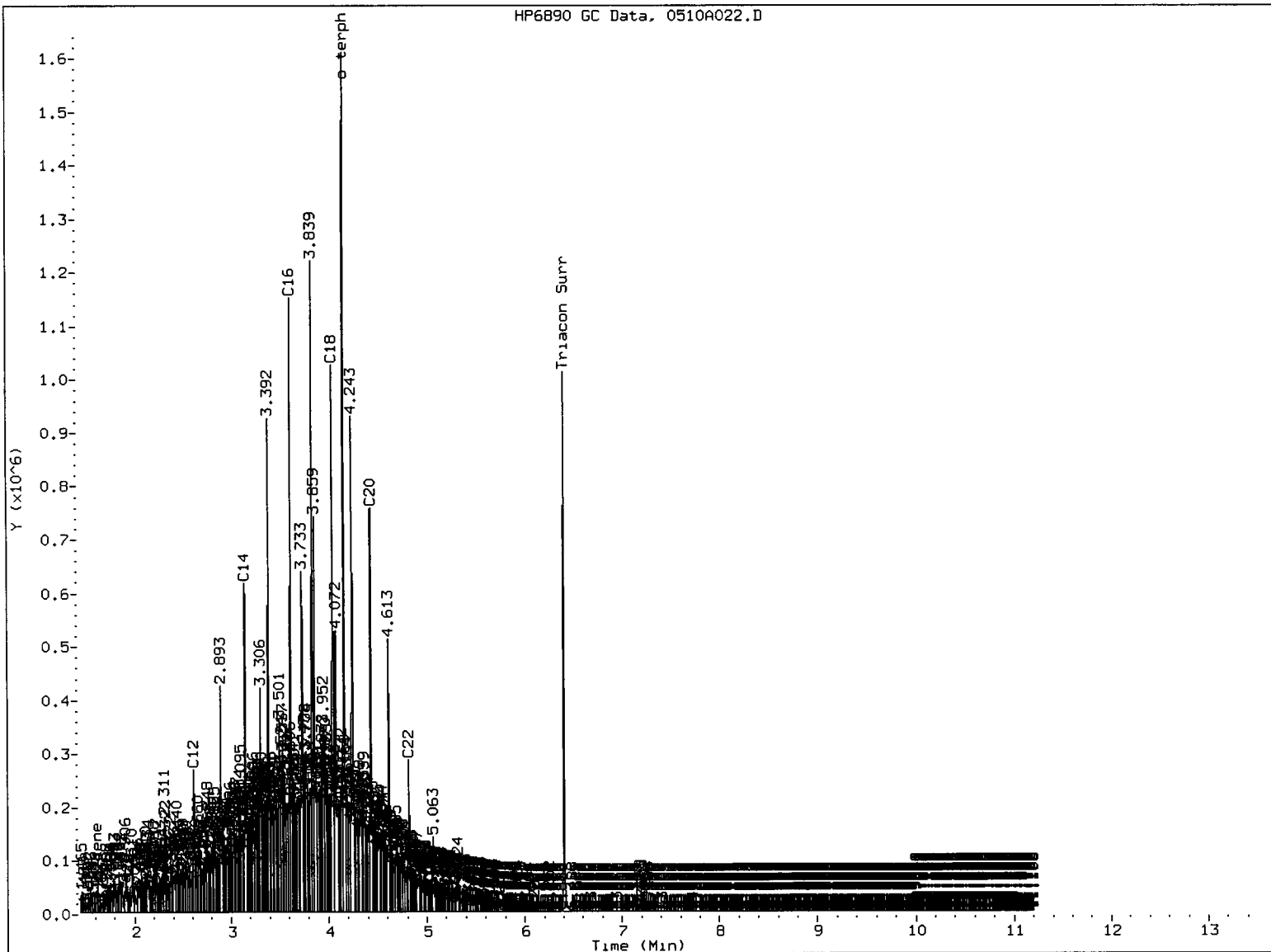
Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110510.b/0510A022.D





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MM Date: 5/12/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A024.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: SU73A
 Client ID: MW-01-042911
 Injection: 10-MAY-2011 19:36
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|--------|
| Toluene | 1.608 | 0.009 | 1158 | 1487 | GAS (Tol-C12) | 337103 | 16.04 |
| C8 | 1.354 | 0.083 | 2242 | 2727 | DIESEL (C12-C24) | 481065 | 21.24 |
| C10 | 1.972 | -0.003 | 12778 | 7777 | M.OIL (C24-C38) | 503574 | 37.97 |
| C12 | 2.607 | -0.011 | 3432 | 3547 | AK-102 (C10-C25) | 772524 | 30.26 |
| C14 | 3.165 | 0.009 | 2685 | 3878 | AK-103 (C25-C36) | 458368 | 53.94 |
| C16 | 3.620 | -0.002 | 2994 | 2180 | | | |
| C18 | 4.039 | 0.001 | 3612 | 994 | | | |
| C20 | 4.426 | -0.002 | 4545 | 4234 | | | |
| C22 | 4.822 | 0.005 | 3469 | 1325 | | | |
| C24 | 5.307 | -0.003 | 3218 | 1147 | | | |
| C25 | 5.535 | 0.000 | 3731 | 2017 | | | |
| C26 | 5.736 | -0.002 | 4398 | 2611 | | | |
| C28 | 6.092 | -0.002 | 7871 | 7395 | | | |
| C32 | 6.687 | 0.002 | 4751 | 3996 | JP-4 (Tol-C14) | 400301 | 24.41 |
| C34 | 6.950 | 0.002 | 2992 | 3387 | BUNKERC (C10-C38) | 1252629 | 168.26 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.200 | 0.003 | 6367 | 8466 | | | |
| C38 | 7.439 | 0.004 | 1014 | 785 | | | |
| C40 | 7.718 | -0.005 | 450 | 357 | | | |
| o-terph | 4.156 | -0.001 | 1278190 | 794056 | JET-A (C10-C18) | 513769 | 37.18 |
| Triacon Surr | 6.411 | -0.004 | 1089448 | 723510 | JP8 (Tol-C16) | 483621 | 27.49 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 794056 | 37.1 | 82.4 |
| Triacontane | 723510 | 41.0 | 91.2 |

ms 5/12/11

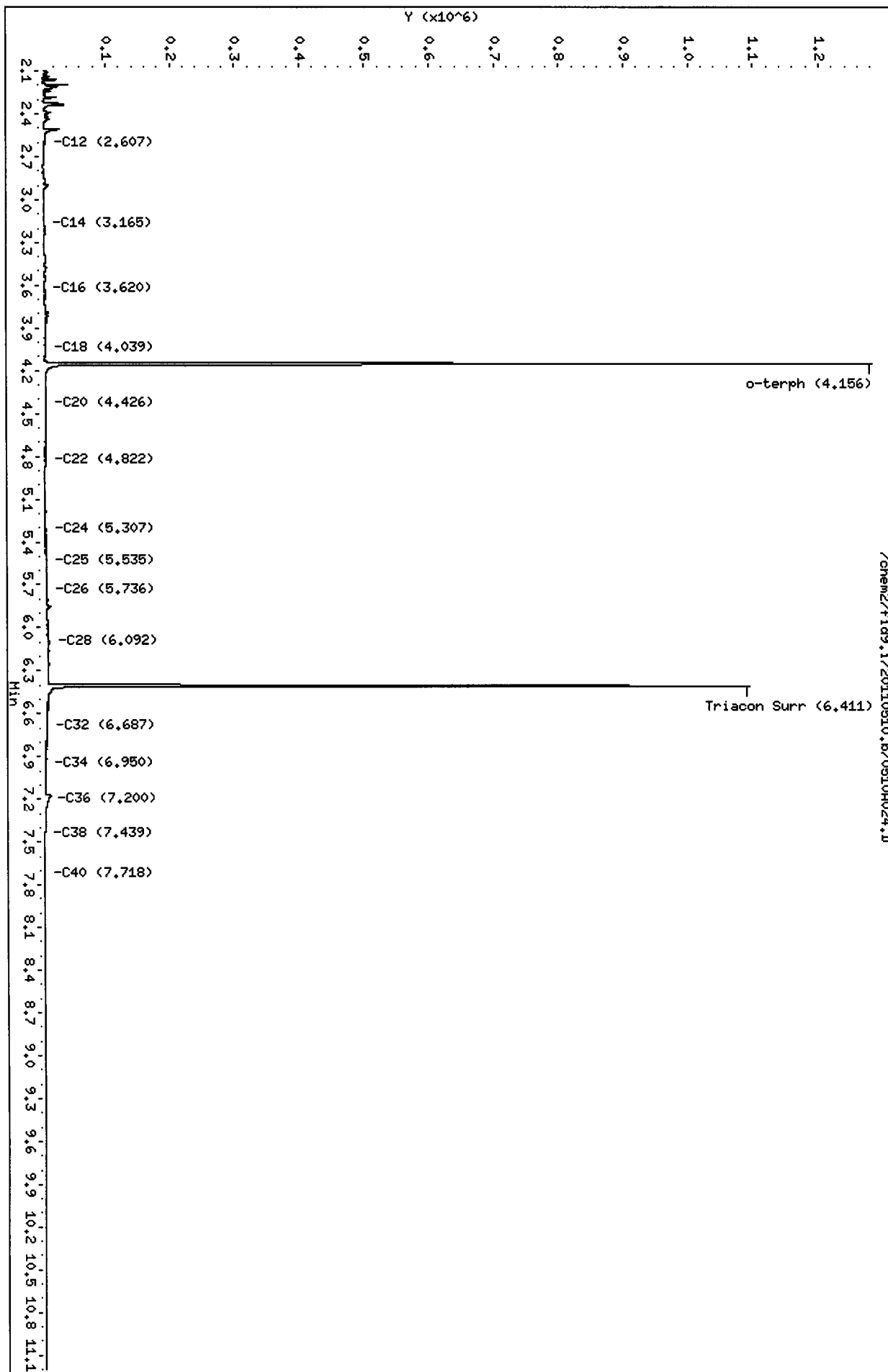
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/0510A024.D
Date: 10-MAY-2011 19:36
Client ID: MM-01-042911
Sample Info: SU73A

Column phase: RTX-1

/chem2/fid9.i/20110510.b/0510A024.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A024.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: SU73A
 Client ID: MW-01-042911
 Injection: 10-MAY-2011 19:36
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.608 | 0.009 | 1158 | 1487 | GAS (Tol-C12) | 337103 | 16.04 |
| C8 | 1.354 | 0.083 | 2242 | 2727 | DIESEL (C12-C24) | 499496 | 22.05 |
| C10 | 1.972 | -0.003 | 12778 | 7777 | M.OIL (C24-C38) | 532705 | 40.16 |
| C12 | 2.607 | -0.011 | 3432 | 3547 | AK-102 (C10-C25) | 790954 | 30.99 M |
| C14 | 3.165 | 0.009 | 2685 | 3878 | AK-103 (C25-C36) | 487498 | 57.37 M |
| C16 | 3.620 | -0.002 | 2994 | 2180 | | | |
| C18 | 4.039 | 0.001 | 3612 | 994 | | | |
| C20 | 4.426 | -0.002 | 4545 | 4234 | | | |
| C22 | 4.822 | 0.005 | 3469 | 1325 | | | |
| C24 | 5.307 | -0.003 | 3218 | 1147 | | | |
| C25 | 5.535 | 0.000 | 3731 | 2017 | | | |
| C26 | 5.736 | -0.002 | 4398 | 2611 | | | |
| C28 | 6.092 | -0.002 | 7871 | 7395 | | | |
| C32 | 6.687 | 0.002 | 4751 | 3996 | JP-4 (Tol-C14) | 400301 | 24.41 |
| C34 | 6.950 | 0.002 | 2992 | 3387 | BUNKERC (C10-C38) | 1300190 | 174.65 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.200 | 0.003 | 6367 | 8466 | | | |
| C38 | 7.439 | 0.004 | 1014 | 785 | | | |
| C40 | 7.718 | -0.005 | 450 | 357 | | | |
| o-terph | 4.156 | -0.001 | 1274506 | 775708 | JET-A (C10-C18) | 513769 | 37.18 |
| Triacon Surr | 6.411 | -0.004 | 1080976 | 694538 | JP8 (Tol-C16) | 483621 | 27.49 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 775708 | 36.2 | 80.5 |
| Triacontane | 694538 | 39.4 | 87.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05100024.D

Date: 10-MAY-2011 19:36

Client ID: MW-01-042911

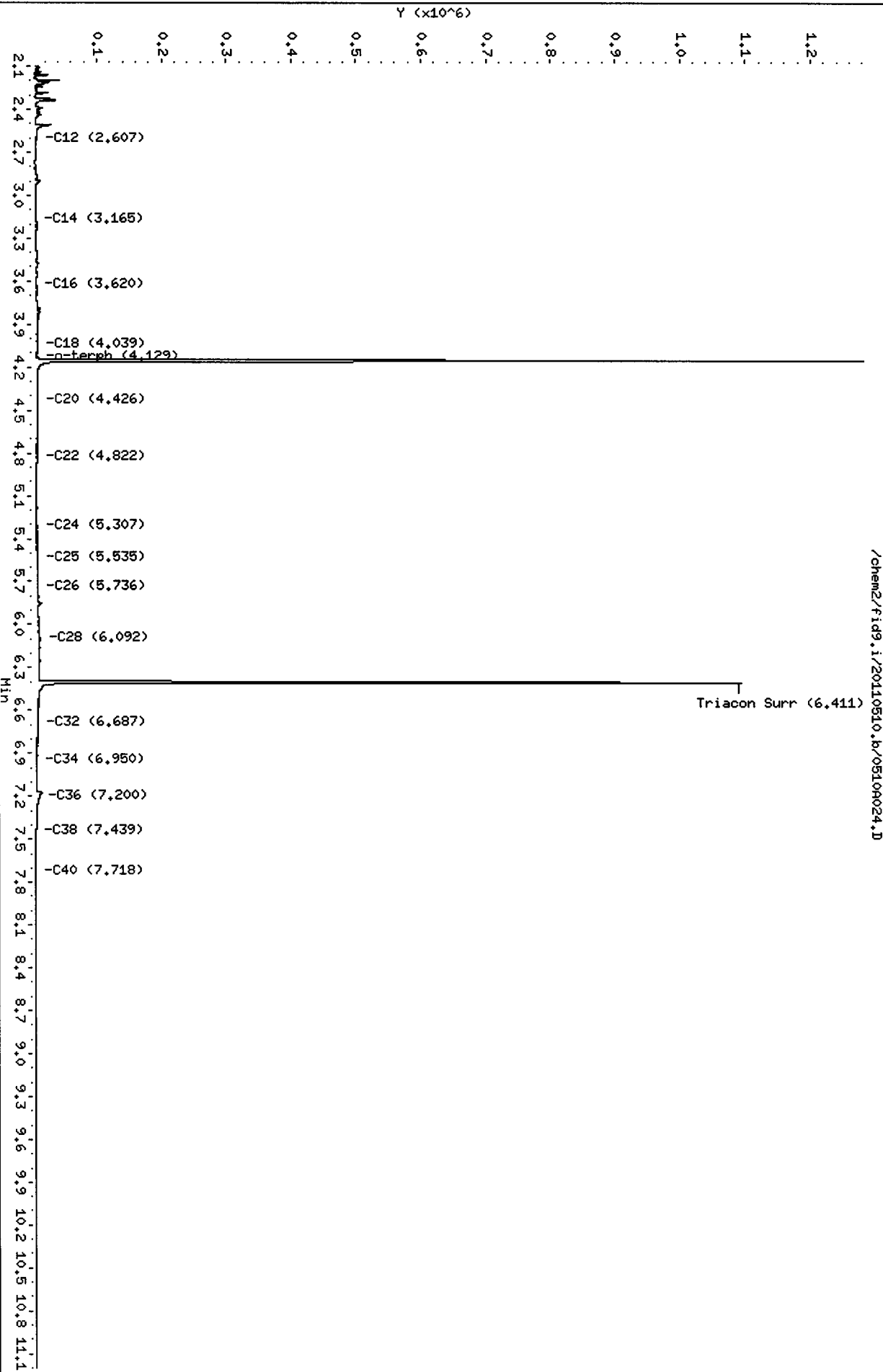
Sample Info: SU73A

Column phase: RTX-1

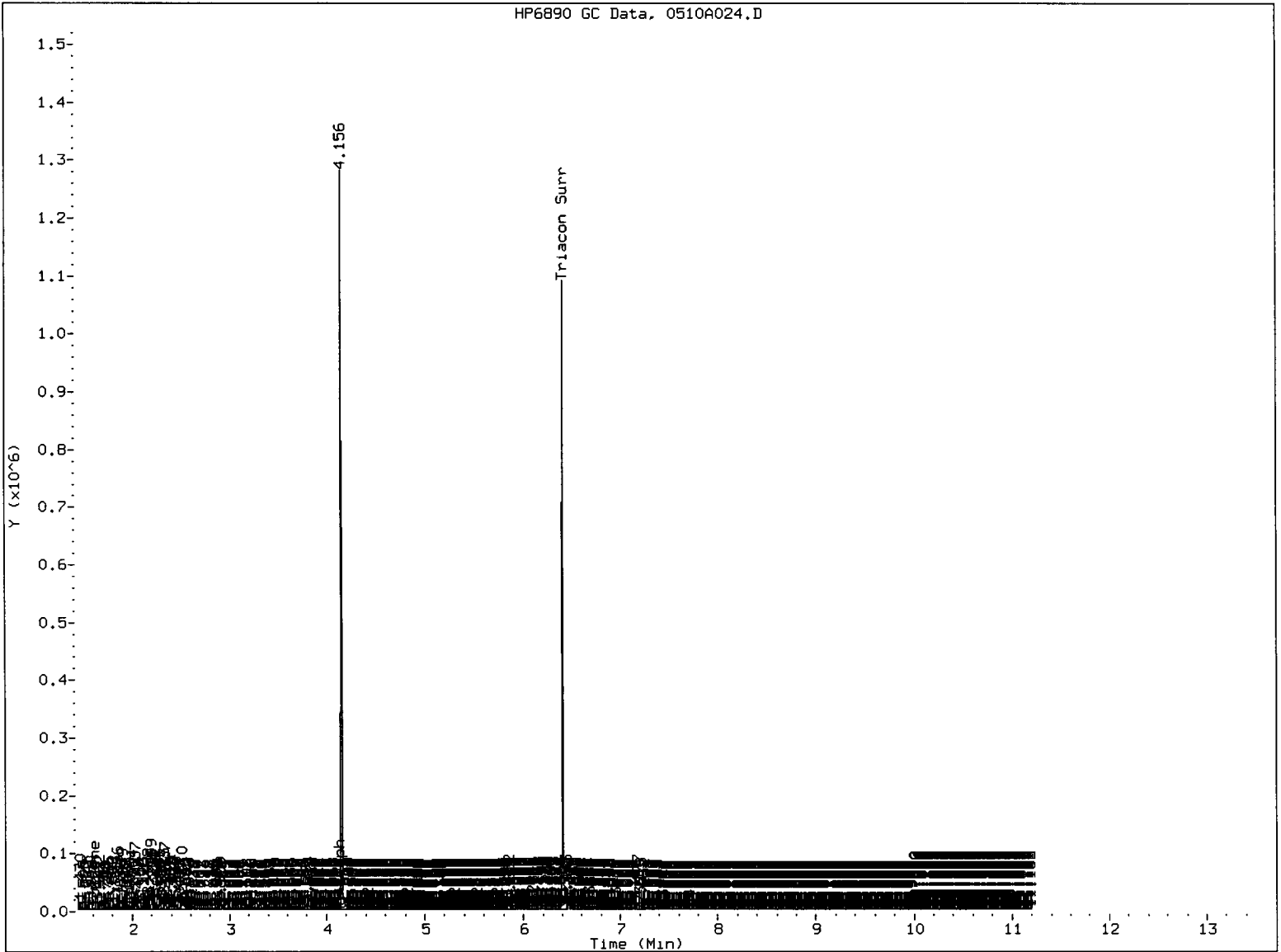
Instrument: fid9.i

Operator: HS

Column diameter: 0.25



HP6890 GC Data, 0510A024.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MS

Date: 5/12/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A025.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: SU73AMS
Client ID: MW-01-042911 MS
Injection: 10-MAY-2011 19:58
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|---------|
| Toluene | 1.615 | 0.015 | 37580 | 41143 | GAS (Tol-C12) | 3441502 | 163.80 |
| C8 | 1.328 | 0.056 | 3196 | 2501 | DIESEL (C12-C24) | 26665027 | 1177.10 |
| C10 | 1.975 | 0.000 | 106734 | 104816 | M.OIL (C24-C38) | 938386 | 70.75 |
| C12 | 2.613 | -0.005 | 285519 | 236746 | AK-102 (C10-C25) | 29629089 | 1160.74 |
| C14 | 3.163 | 0.008 | 174457 | 121677 | AK-103 (C25-C36) | 783278 | 92.17 |
| C16 | 3.621 | -0.001 | 1158880 | 1058059 | | | |
| C18 | 4.046 | 0.008 | 1021716 | 930638 | | | |
| C20 | 4.430 | 0.002 | 738978 | 552817 | | | |
| C22 | 4.817 | 0.001 | 299510 | 269176 | | | |
| C24 | 5.310 | 0.000 | 85784 | 81492 | | | |
| C25 | 5.533 | -0.002 | 43776 | 46928 | | | |
| C26 | 5.736 | -0.002 | 22866 | 24456 | | | |
| C28 | 6.093 | -0.001 | 12122 | 12489 | | | |
| C32 | 6.685 | -0.001 | 5957 | 5355 | JP-4 (Tol-C14) | 7750733 | 472.71 |
| C34 | 6.949 | 0.002 | 3708 | 2129 | BUNKERC (C10-C38) | 30435884 | 4088.43 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.197 | 0.001 | 6402 | 5911 | | | |
| C38 | 7.441 | 0.006 | 1197 | 1037 | | | |
| C40 | 7.721 | -0.003 | 553 | 371 | | | |
| o-terph | 4.160 | 0.003 | 1657980 | 1221735 | JET-A (C10-C18) | 21500227 | 1555.84 |
| Triacon Surr | 6.412 | -0.003 | 1163710 | 769942 | JP8 (Tol-C16) | 14547804 | 826.86 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1221735 | 57.0 | 126.8 |
| Triacontane | 769942 | 43.7 | 97.1 |

no 5/12/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05100025.D

Date: 10-MAY-2011 19:58

Client ID: MM-01-042911 MS

Sample Info: SU739MS

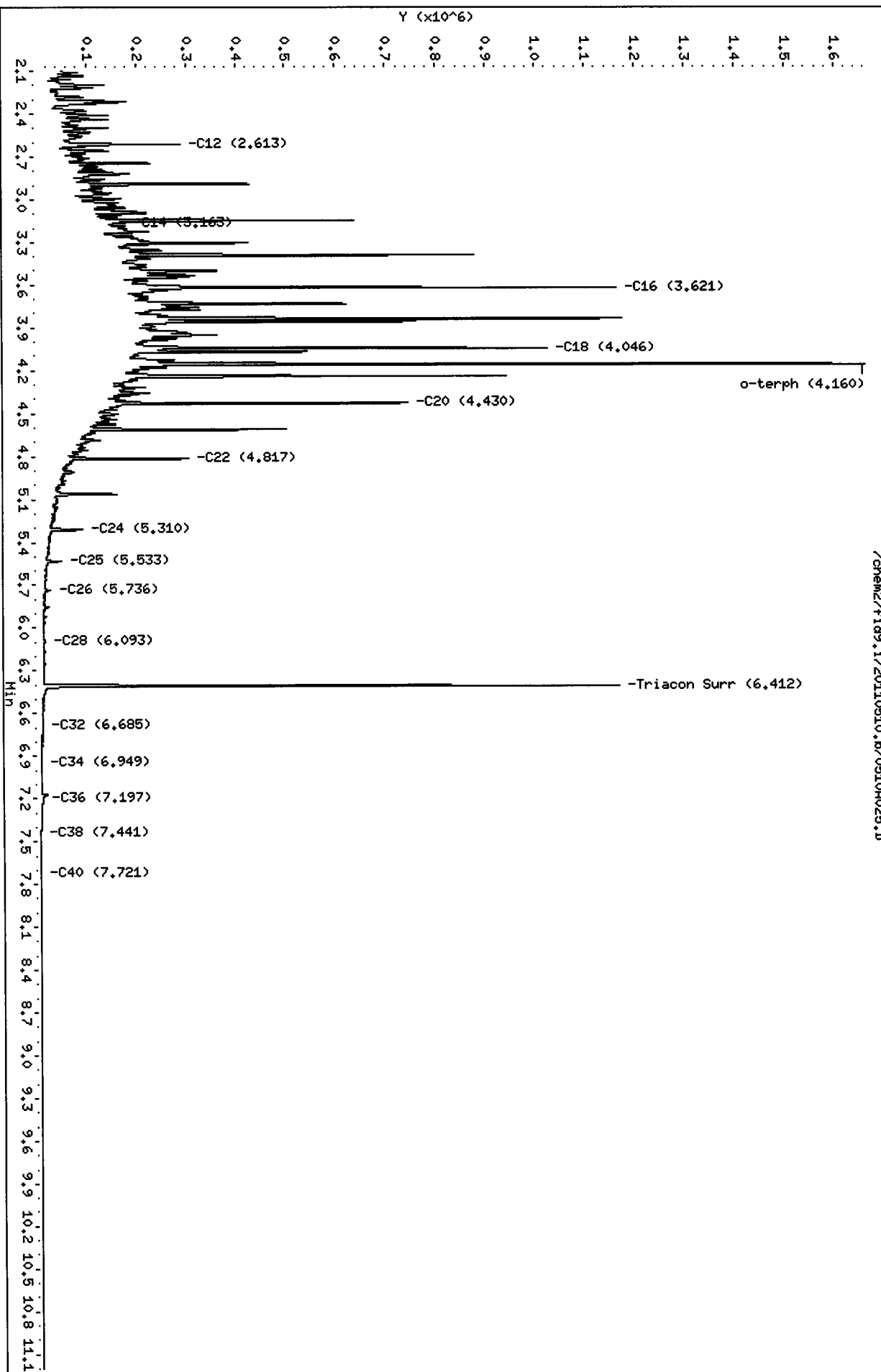
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

/chem2/fid9.i/20110510.b/05100025.D



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A025.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: SU73AMS
Client ID: MW-01-042911 MS
Injection: 10-MAY-2011 19:58
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.615 | 0.015 | 37580 | 41143 | GAS (Tol-C12) | 3441502 | 163.80 |
| C8 | 1.328 | 0.056 | 3196 | 2501 | DIESEL (C12-C24) | 27094286 | 1196.05 |
| C10 | 1.975 | 0.000 | 106734 | 104816 | M.OIL (C24-C38) | 972237 | 73.30 |
| C12 | 2.613 | -0.005 | 285519 | 236746 | AK-102 (C10-C25) | 30058348 | 1177.56 M |
| C14 | 3.163 | 0.008 | 174457 | 121677 | AK-103 (C25-C36) | 817129 | 96.15 M |
| C16 | 3.621 | -0.001 | 1158880 | 1058059 | | | |
| C18 | 4.046 | 0.008 | 1021716 | 930638 | | | |
| C20 | 4.430 | 0.002 | 738978 | 552817 | | | |
| C22 | 4.817 | 0.001 | 299510 | 269176 | | | |
| C24 | 5.310 | 0.000 | 85784 | 81492 | | | |
| C25 | 5.533 | -0.002 | 43776 | 46928 | | | |
| C26 | 5.736 | -0.002 | 22866 | 24456 | | | |
| C28 | 6.093 | -0.001 | 12122 | 12489 | | | |
| C32 | 6.685 | -0.001 | 5957 | 5355 | JP-4 (Tol-C14) | 7750733 | 472.71 |
| C34 | 6.949 | 0.002 | 3708 | 2129 | BUNKERC (C10-C38) | 30898994 | 4150.64 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.197 | 0.001 | 6402 | 5911 | | | |
| C38 | 7.441 | 0.006 | 1197 | 1037 | | | |
| C40 | 7.721 | -0.003 | 553 | 371 | | | |
| o-terph | 4.160 | 0.003 | 1411355 | 797352 | JET-A (C10-C18) | 21500227 | 1555.84 |
| Triacon Surr | 6.412 | -0.003 | 1154106 | 736272 | JP8 (Tol-C16) | 14547804 | 826.86 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 797352 | 37.2 | 82.7 |
| Triacontane | 736272 | 41.8 | 92.8 |

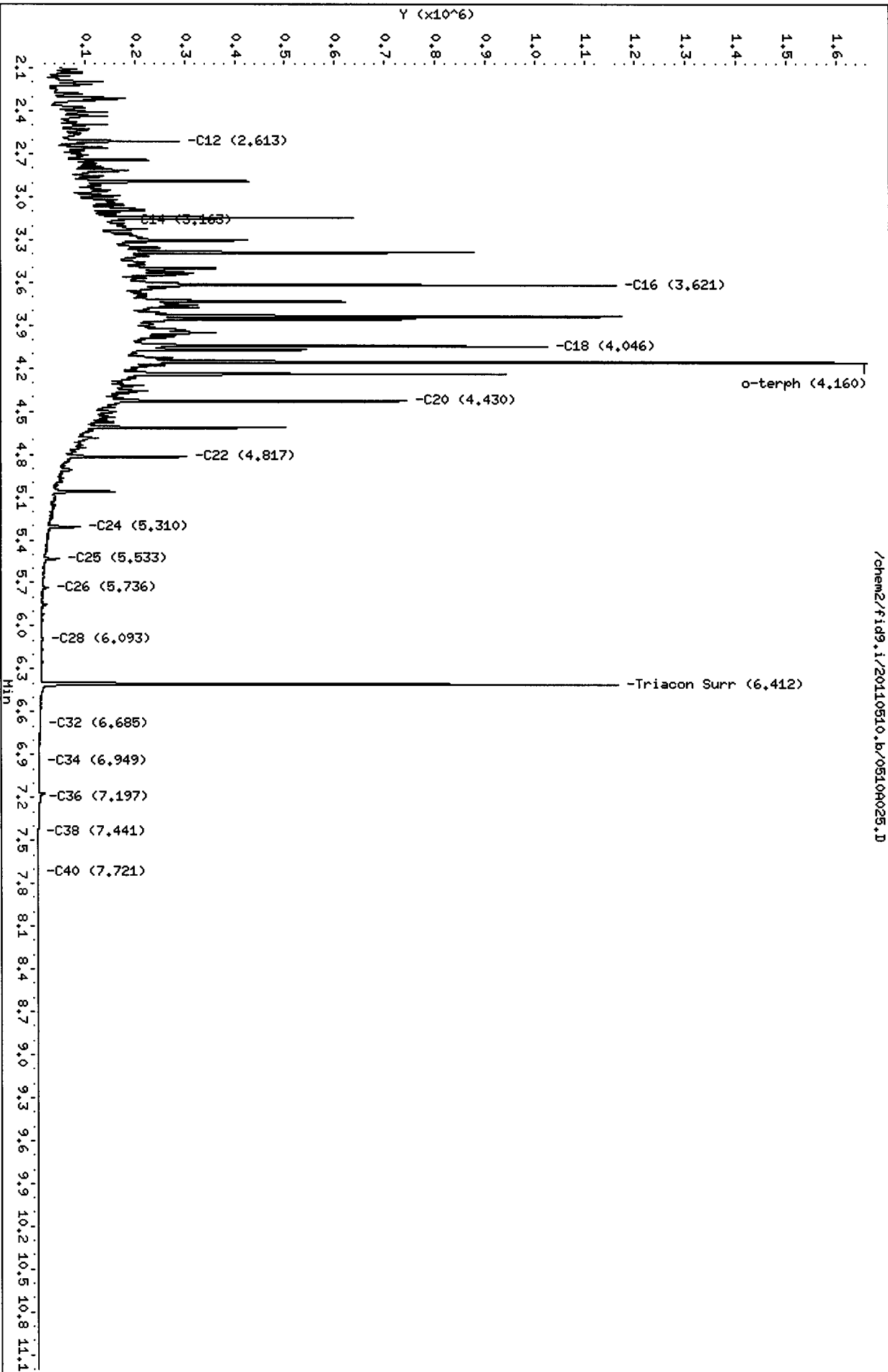
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

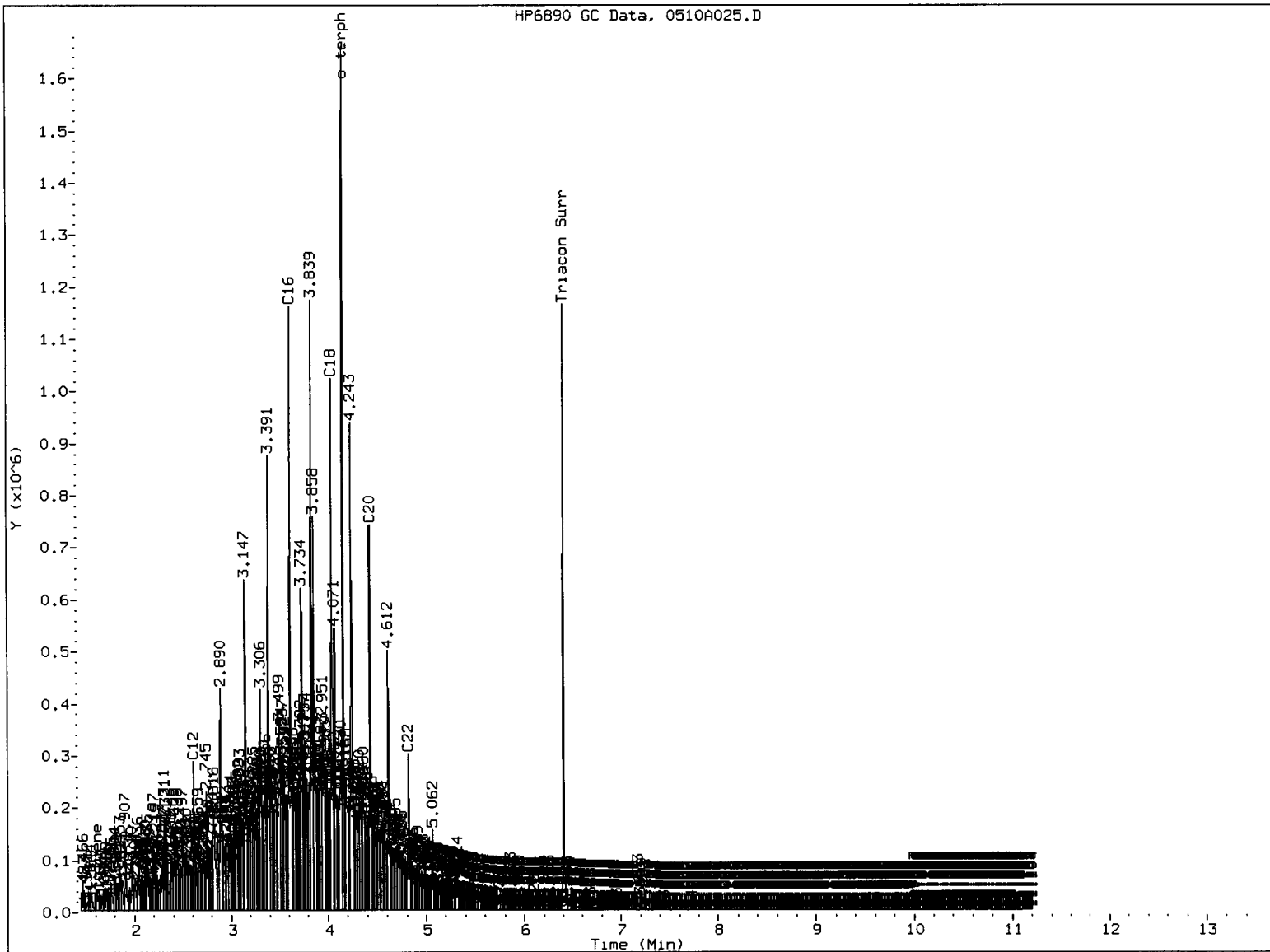
Data File: /chem2/fid9.i/20110510.b/05100025.D
Date: 10-MAY-2011 19:58
Client ID: MW-01-042914 HS
Sample Info: SU739HS

Column phase: RTX-1

/chem2/fid9.i/20110510.b/05100025.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MM

Date: 5/12/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A026.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: SU73AMSD
Client ID: MW-01-042911 MSD
Injection: 10-MAY-2011 20:20
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|---------|
| Toluene | 1.612 | 0.013 | 34668 | 44569 | GAS (Tol-C12) | 3294122 | 156.79 |
| C8 | 1.327 | 0.056 | 3200 | 2395 | DIESEL (C12-C24) | 25677705 | 1133.52 |
| C10 | 1.972 | -0.003 | 105373 | 98068 | M.OIL (C24-C38) | 920056 | 69.37 |
| C12 | 2.612 | -0.006 | 274459 | 227934 | AK-102 (C10-C25) | 28518932 | 1117.25 |
| C14 | 3.163 | 0.007 | 163268 | 61098 | AK-103 (C25-C36) | 772364 | 90.89 |
| C16 | 3.623 | 0.001 | 1179472 | 1053657 | | | |
| C18 | 4.047 | 0.009 | 1015447 | 895223 | | | |
| C20 | 4.430 | 0.003 | 729787 | 571626 | | | |
| C22 | 4.817 | 0.001 | 295618 | 267027 | | | |
| C24 | 5.309 | -0.001 | 88997 | 74326 | | | |
| C25 | 5.532 | -0.003 | 42613 | 39995 | | | |
| C26 | 5.735 | -0.003 | 22388 | 25143 | | | |
| C28 | 6.092 | -0.002 | 11799 | 12172 | | | |
| C32 | 6.690 | 0.005 | 5886 | 7216 | JP-4 (Tol-C14) | 7228573 | 440.86 |
| C34 | 6.945 | -0.002 | 3331 | 1101 | BUNKERC (C10-C38) | 29312041 | 3937.47 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.202 | 0.005 | 5903 | 2193 | | | |
| C38 | 7.429 | -0.006 | 1383 | 1789 | | | |
| C40 | 7.718 | -0.006 | 480 | 402 | | | |
| o-terph | 4.160 | 0.003 | 1549379 | 1228671 | JET-A (C10-C18) | 20441501 | 1479.22 |
| Triacon Surr | 6.414 | -0.001 | 1009514 | 696584 | JP8 (Tol-C16) | 13722509 | 779.95 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|---------|--------|-------|
| o-Terphenyl | 1228671 | 57.4 | 127.5 |
| Triacontane | 696584 | 39.5 | 87.8 |

MS 5/12/11

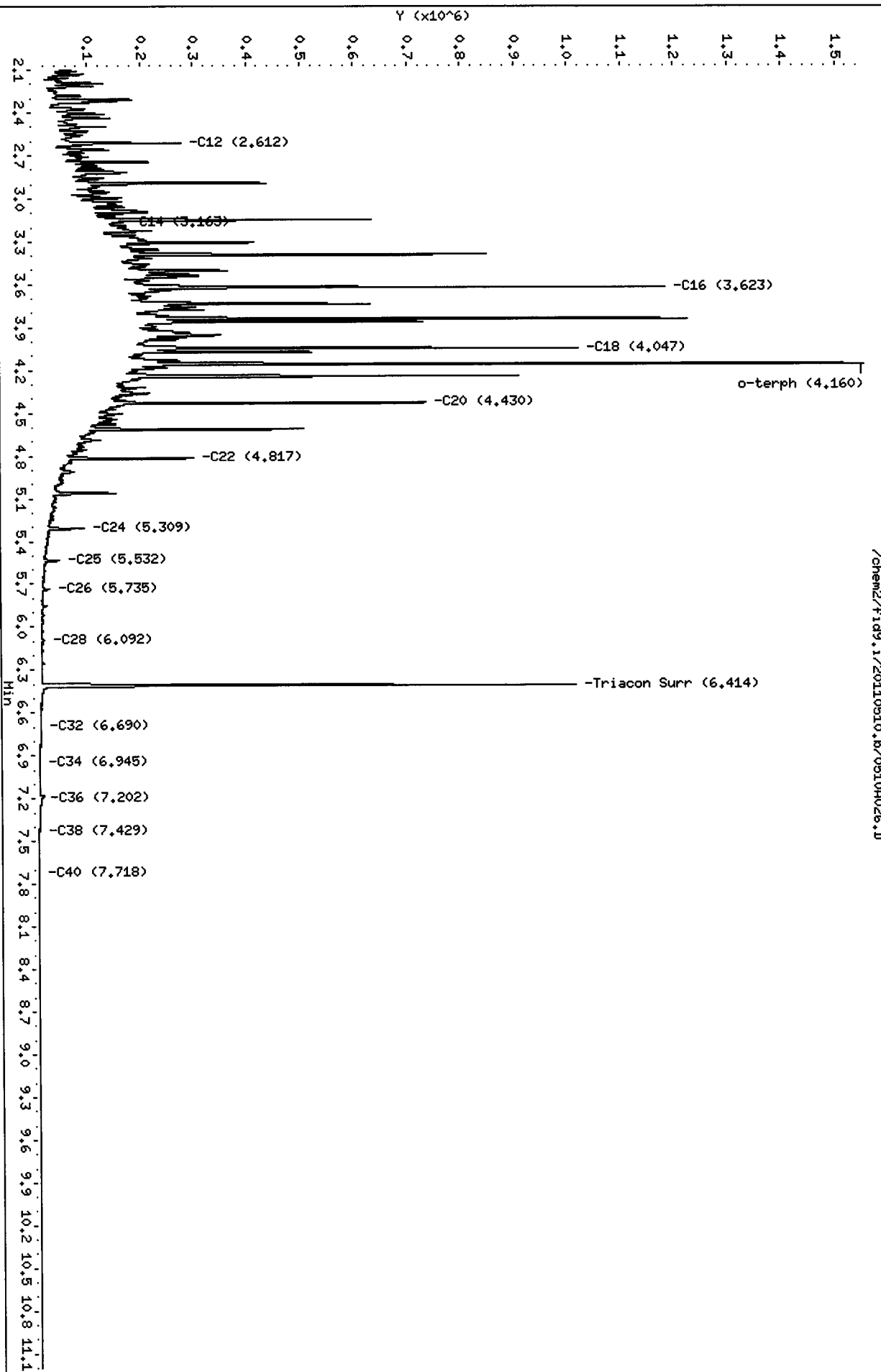
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05104026.D
Date: 10-MAY-2011 20:20
Client ID: MW-01-042911 MSD
Sample Info: SU73AHMSD

Column phase: RTX-1

/chem2/fid9.i/20110510.b/05104026.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A026.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: SU73AMSD
Client ID: MW-01-042911 MSD
Injection: 10-MAY-2011 20:20
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|---------|-------------------|------------|-----------|
| Toluene | 1.612 | 0.013 | 34668 | 44569 | GAS (Tol-C12) | 3294122 | 156.79 |
| C8 | 1.327 | 0.056 | 3200 | 2395 | DIESEL (C12-C24) | 26196030 | 1156.40 |
| C10 | 1.972 | -0.003 | 105373 | 98068 | M.OIL (C24-C38) | 952017 | 71.78 |
| C12 | 2.612 | -0.006 | 274459 | 227934 | AK-102 (C10-C25) | 29037256 | 1137.56 M |
| C14 | 3.163 | 0.007 | 163268 | 61098 | AK-103 (C25-C36) | 804325 | 94.65 M |
| C16 | 3.623 | 0.001 | 1179472 | 1053657 | | | |
| C18 | 4.047 | 0.009 | 1015447 | 895223 | | | |
| C20 | 4.430 | 0.003 | 729787 | 571626 | | | |
| C22 | 4.817 | 0.001 | 295618 | 267027 | | | |
| C24 | 5.309 | -0.001 | 88997 | 74326 | | | |
| C25 | 5.532 | -0.003 | 42613 | 39995 | | | |
| C26 | 5.735 | -0.003 | 22388 | 25143 | | | |
| C28 | 6.092 | -0.002 | 11799 | 12172 | | | |
| C32 | 6.690 | 0.005 | 5886 | 7216 | JP-4 (Tol-C14) | 7228573 | 440.86 |
| C34 | 6.945 | -0.002 | 3331 | 1101 | BUNKERC (C10-C38) | 29862326 | 4011.38 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.202 | 0.005 | 5903 | 2193 | | | |
| C38 | 7.429 | -0.006 | 1383 | 1789 | | | |
| C40 | 7.718 | -0.006 | 480 | 402 | | | |
| o-terph | 4.160 | 0.003 | 1309252 | 714633 | JET-A (C10-C18) | 20441501 | 1479.22 |
| Triacon Surr | 6.414 | -0.001 | 1000193 | 664806 | JP8 (Tol-C16) | 13722509 | 779.95 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 714633 | 33.4 | 74.1 |
| Triacontane | 664806 | 37.7 | 83.8 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05104026.D

Date: 10-MAY-2011 20:20

Client ID: MW-01-042911 HSD

Sample Info: SU734HSD

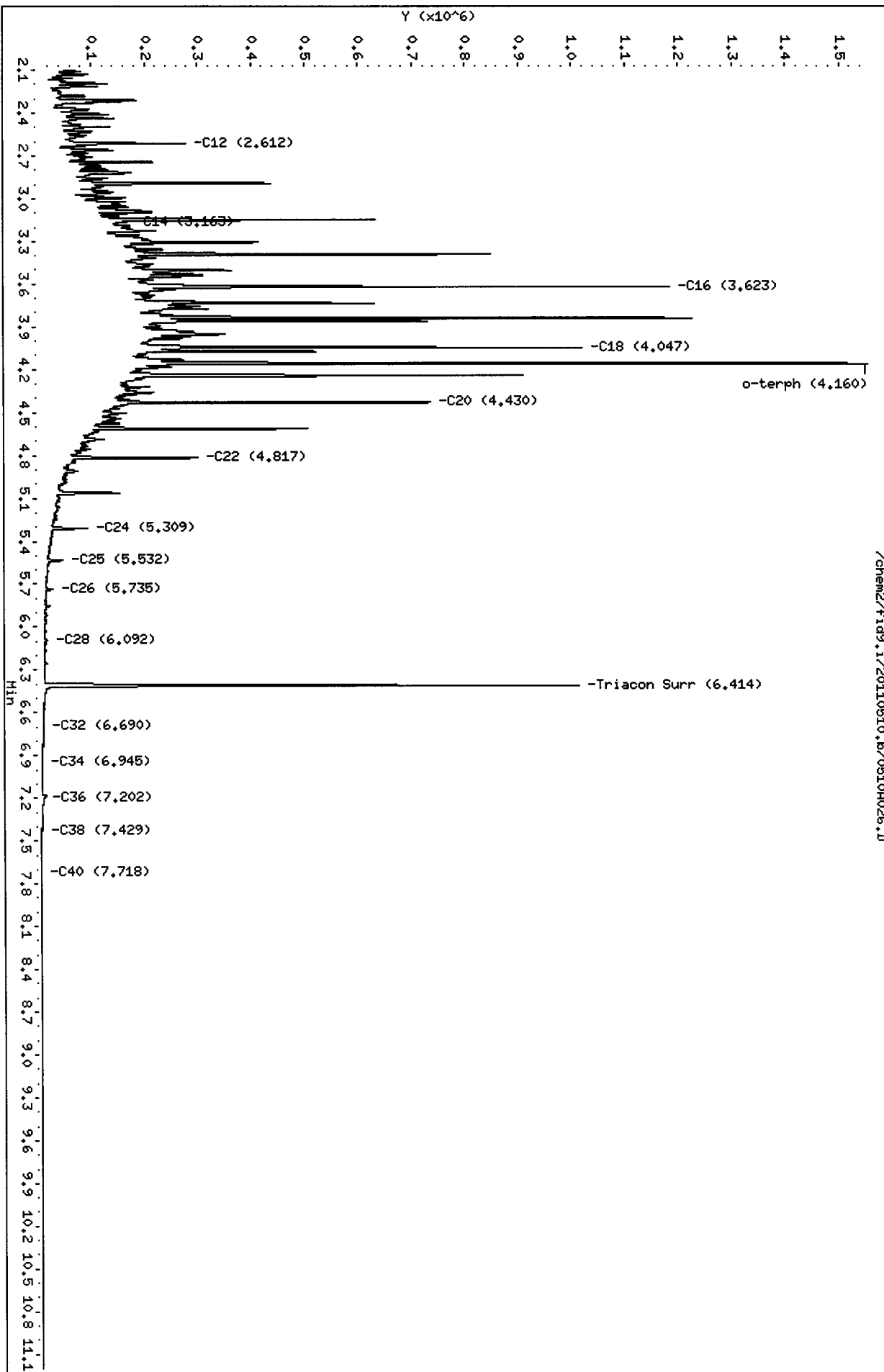
Column phase: RTX-1

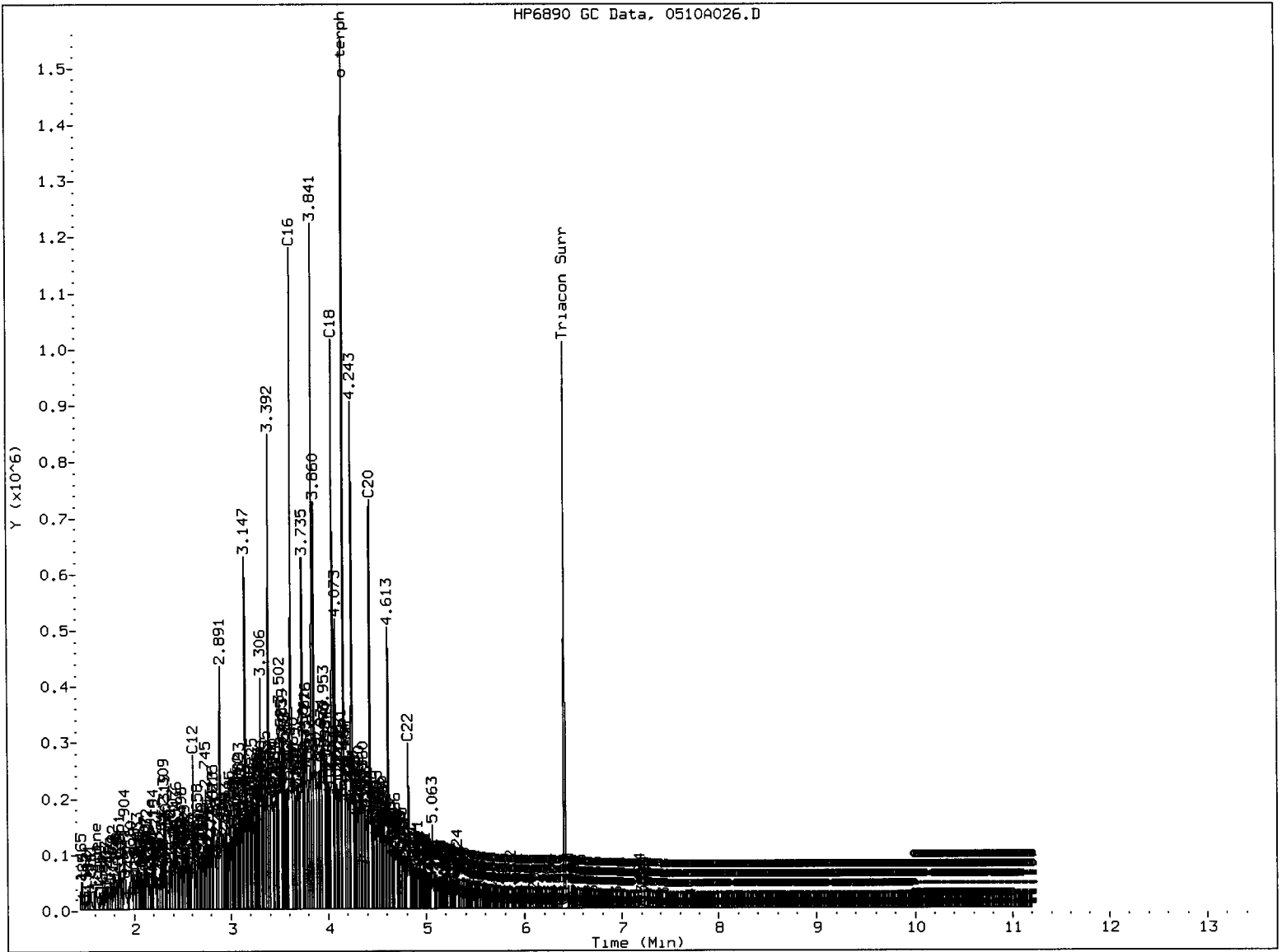
Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110510.b/05104026.D





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: Amo

Date: 5/12/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A027.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: SU73B
 Client ID: MW-01-042911-D
 Injection: 10-MAY-2011 20:41
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|--------|
| Toluene | 1.610 | 0.010 | 1164 | 1512 | GAS (Tol-C12) | 345959 | 16.47 |
| C8 | 1.352 | 0.081 | 2154 | 2408 | DIESEL (C12-C24) | 497773 | 21.97 |
| C10 | 1.972 | -0.003 | 14131 | 8882 | M.OIL (C24-C38) | 499423 | 37.65 |
| C12 | 2.605 | -0.013 | 3567 | 3806 | AK-102 (C10-C25) | 793776 | 31.10 |
| C14 | 3.164 | 0.008 | 2672 | 3893 | AK-103 (C25-C36) | 453414 | 53.35 |
| C16 | 3.622 | 0.001 | 3256 | 2349 | | | |
| C18 | 4.040 | 0.002 | 4495 | 3902 | | | |
| C20 | 4.430 | 0.002 | 4801 | 6674 | | | |
| C22 | 4.813 | -0.003 | 3623 | 3434 | | | |
| C24 | 5.309 | -0.002 | 2972 | 1253 | | | |
| C25 | 5.531 | -0.004 | 4631 | 3912 | | | |
| C26 | 5.738 | 0.000 | 4191 | 2205 | | | |
| C28 | 6.092 | -0.002 | 9778 | 9914 | | | |
| C32 | 6.688 | 0.002 | 4513 | 3035 | JP-4 (Tol-C14) | 419542 | 25.59 |
| C34 | 6.946 | -0.002 | 2705 | 475 | BUNKERC (C10-C38) | 1270626 | 170.68 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.203 | 0.007 | 5954 | 1499 | | | |
| C38 | 7.442 | 0.006 | 1124 | 1179 | | | |
| C40 | 7.726 | 0.002 | 450 | 201 | | | |
| o-terph | 4.157 | 0.000 | 1279128 | 752418 | JET-A (C10-C18) | 542344 | 39.25 |
| Triacon Surr | 6.412 | -0.003 | 995457 | 703144 | JP8 (Tol-C16) | 505522 | 28.73 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 752418 | 35.1 | 78.1 |
| Triacontane | 703144 | 39.9 | 88.6 |

ms 5/12/11

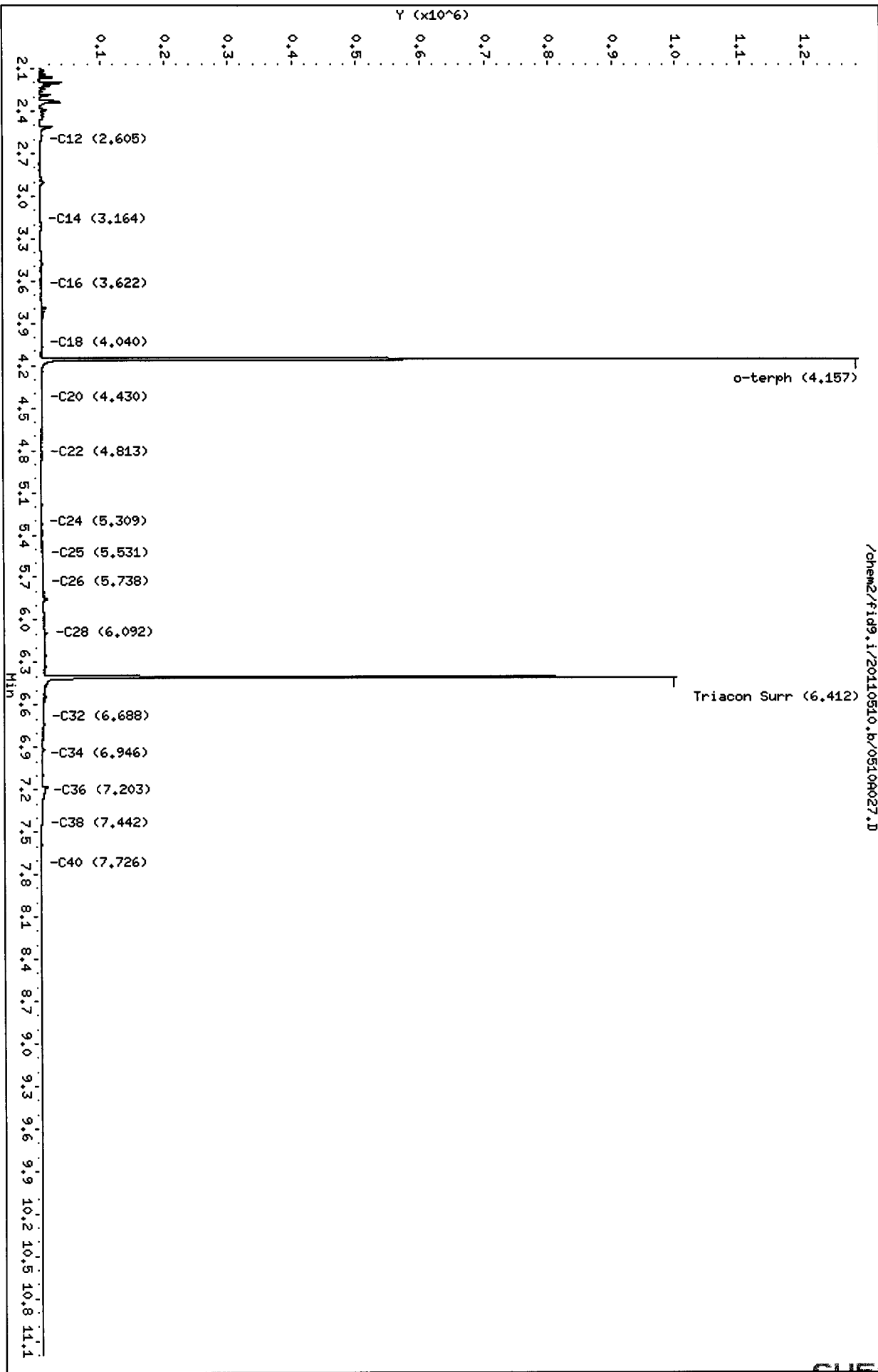
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05100027.D
Date: 10-May-2011 20:41
Client ID: MM-01-042911-D
Sample Info: SU73B

Column phase: RTX-1

/chem2/fid9.i/20110510.b/05100027.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A027.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: SU73B
 Client ID: MW-01-042911-D
 Injection: 10-MAY-2011 20:41
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.610 | 0.010 | 1164 | 1512 | GAS (Tol-C12) | 345959 | 16.47 |
| C8 | 1.352 | 0.081 | 2154 | 2408 | DIESEL (C12-C24) | 518793 | 22.90 |
| C10 | 1.972 | -0.003 | 14131 | 8882 | M.OIL (C24-C38) | 531880 | 40.10 |
| C12 | 2.605 | -0.013 | 3567 | 3806 | AK-102 (C10-C25) | 814796 | 31.92 M |
| C14 | 3.164 | 0.008 | 2672 | 3893 | AK-103 (C25-C36) | 485870 | 57.17 M |
| C16 | 3.622 | 0.001 | 3256 | 2349 | | | |
| C18 | 4.040 | 0.002 | 4495 | 3902 | | | |
| C20 | 4.430 | 0.002 | 4801 | 6674 | | | |
| C22 | 4.813 | -0.003 | 3623 | 3434 | | | |
| C24 | 5.309 | -0.002 | 2972 | 1253 | | | |
| C25 | 5.531 | -0.004 | 4631 | 3912 | | | |
| C26 | 5.738 | 0.000 | 4191 | 2205 | | | |
| C28 | 6.092 | -0.002 | 9778 | 9914 | | | |
| C32 | 6.688 | 0.002 | 4513 | 3035 | JP-4 (Tol-C14) | 419542 | 25.59 |
| C34 | 6.946 | -0.002 | 2705 | 475 | BUNKERC (C10-C38) | 1324102 | 177.87 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.203 | 0.007 | 5954 | 1499 | | | |
| C38 | 7.442 | 0.006 | 1124 | 1179 | | | |
| C40 | 7.726 | 0.002 | 450 | 201 | | | |
| o-terph | 4.157 | 0.000 | 1275636 | 731477 | JET-A (C10-C18) | 542344 | 39.25 |
| Triacon Surr | 6.412 | -0.003 | 987568 | 670837 | JP8 (Tol-C16) | 505522 | 28.73 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 731477 | 34.2 | 75.9 |
| Triacontane | 670837 | 38.1 | 84.6 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05104027.D

Date: 10-MAY-2011 20:41

Client ID: HM-01-042911-D

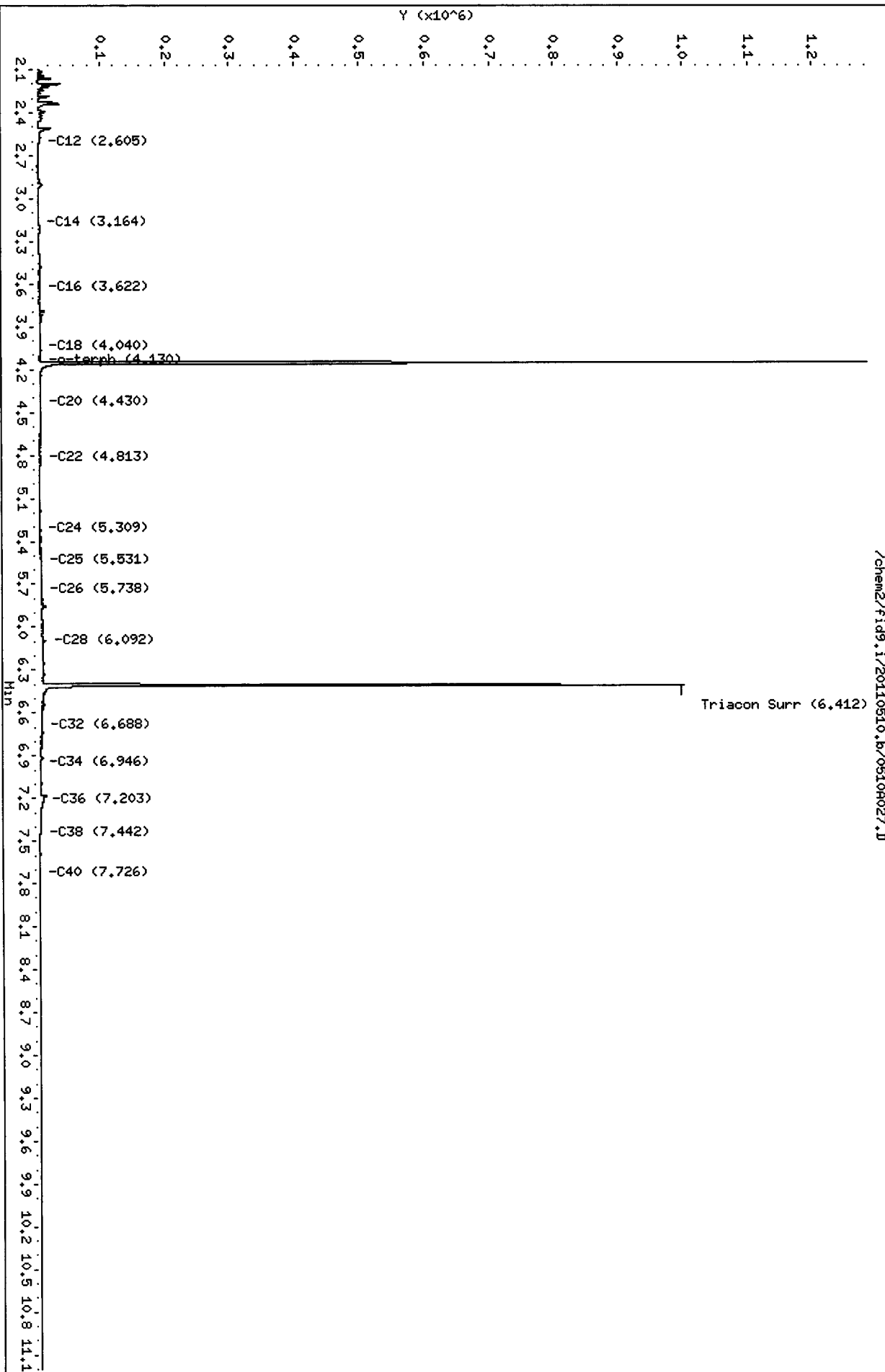
Sample Info: SU73B

Column phase: RTX-1

Instrument: fid9.i

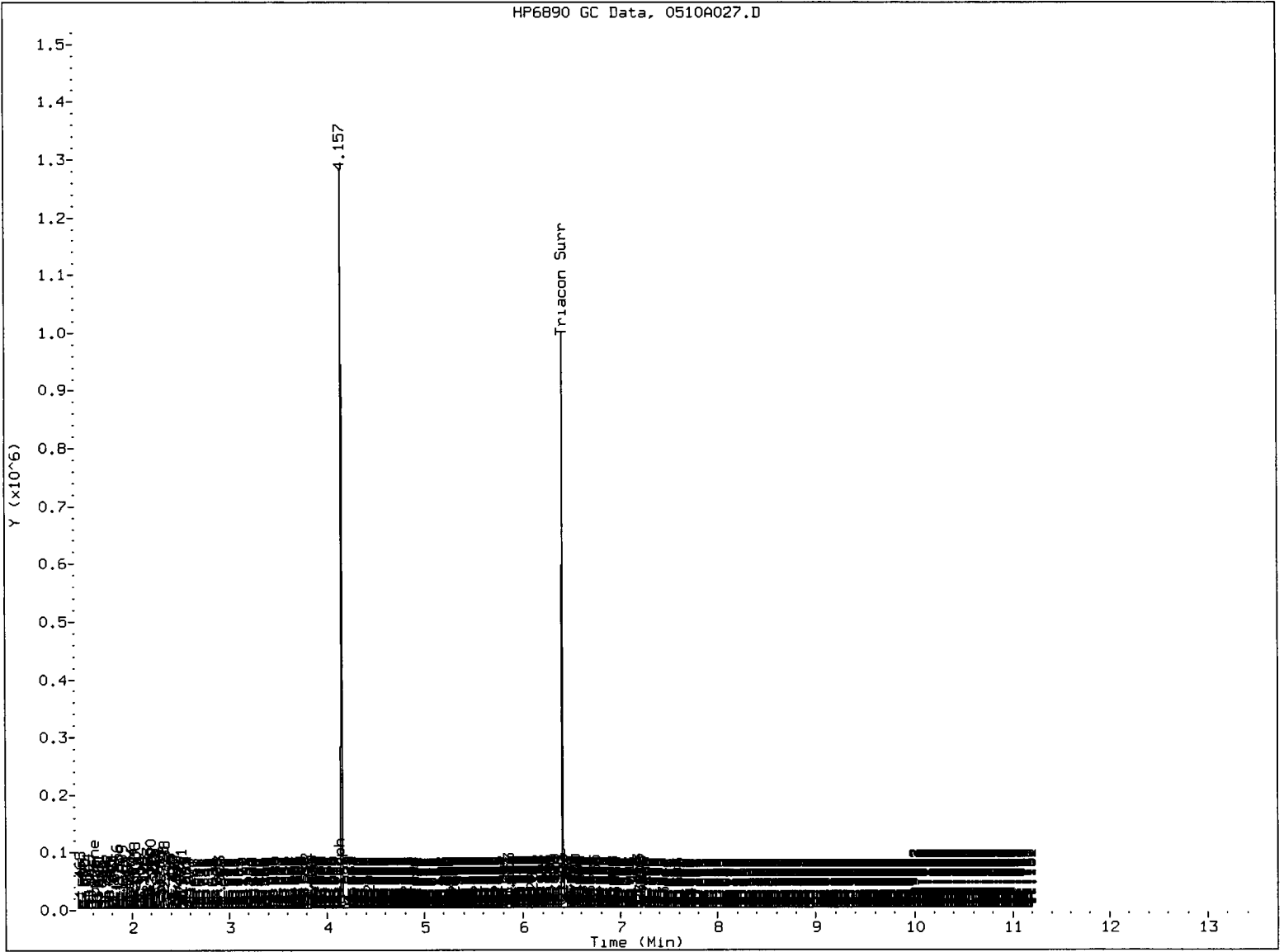
Operator: HS

Column diameter: 0.25



/chem2/fid9.i/20110510.b/05104027.D

HP6890 GC Data, 0510A027.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: AMS

Date: 5/12/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A028.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: SU74A
Client ID: B312-042911
Injection: 10-MAY-2011 21:03
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|--------|--------|-------------------|------------|-------|
| Toluene | 1.605 | 0.006 | 1265 | 2407 | GAS (Tol-C12) | 172734 | 8.22 |
| C8 | 1.353 | 0.082 | 269708 | 139599 | DIESEL (C12-C24) | 268052 | 11.83 |
| C10 | 1.981 | 0.006 | 513 | 437 | M.OIL (C24-C38) | 285900 | 21.56 |
| C12 | 2.580 | -0.038 | 16763 | 23426 | AK-102 (C10-C25) | 429284 | 16.82 |
| C14 | 3.155 | 0.000 | 536 | 408 | AK-103 (C25-C36) | 235781 | 27.75 |
| C16 | 3.623 | 0.002 | 1312 | 1510 | | | |
| C18 | 4.046 | 0.008 | 2242 | 1044 | | | |
| C20 | 4.435 | 0.008 | 2234 | 2771 | | | |
| C22 | 4.812 | -0.004 | 2028 | 1786 | | | |
| C24 | 5.308 | -0.002 | 1309 | 1284 | | | |
| C25 | 5.535 | 0.000 | 1706 | 1866 | | | |
| C26 | 5.739 | 0.001 | 1736 | 2486 | | | |
| C28 | 6.093 | -0.001 | 3093 | 2891 | | | |
| C32 | 6.692 | 0.007 | 3791 | 5252 | JP-4 (Tol-C14) | 223193 | 13.61 |
| C34 | 6.957 | 0.009 | 3813 | 5462 | BUNKERC (C10-C38) | 707092 | 94.98 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.205 | 0.008 | 8019 | 12442 | | | |
| C38 | 7.443 | 0.008 | 2976 | 3007 | | | |
| C40 | 7.726 | 0.002 | 2267 | 2541 | | | |
| o-terph | 4.154 | -0.003 | 685792 | 482482 | JET-A (C10-C18) | 297143 | 21.50 |
| Triacon Surr | 6.407 | -0.008 | 722948 | 457961 | JP8 (Tol-C16) | 261682 | 14.87 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 482482 | 22.5 | 50.1 |
| Triacontane | 457961 | 26.0 | 57.7 |

> 49% ok ✓

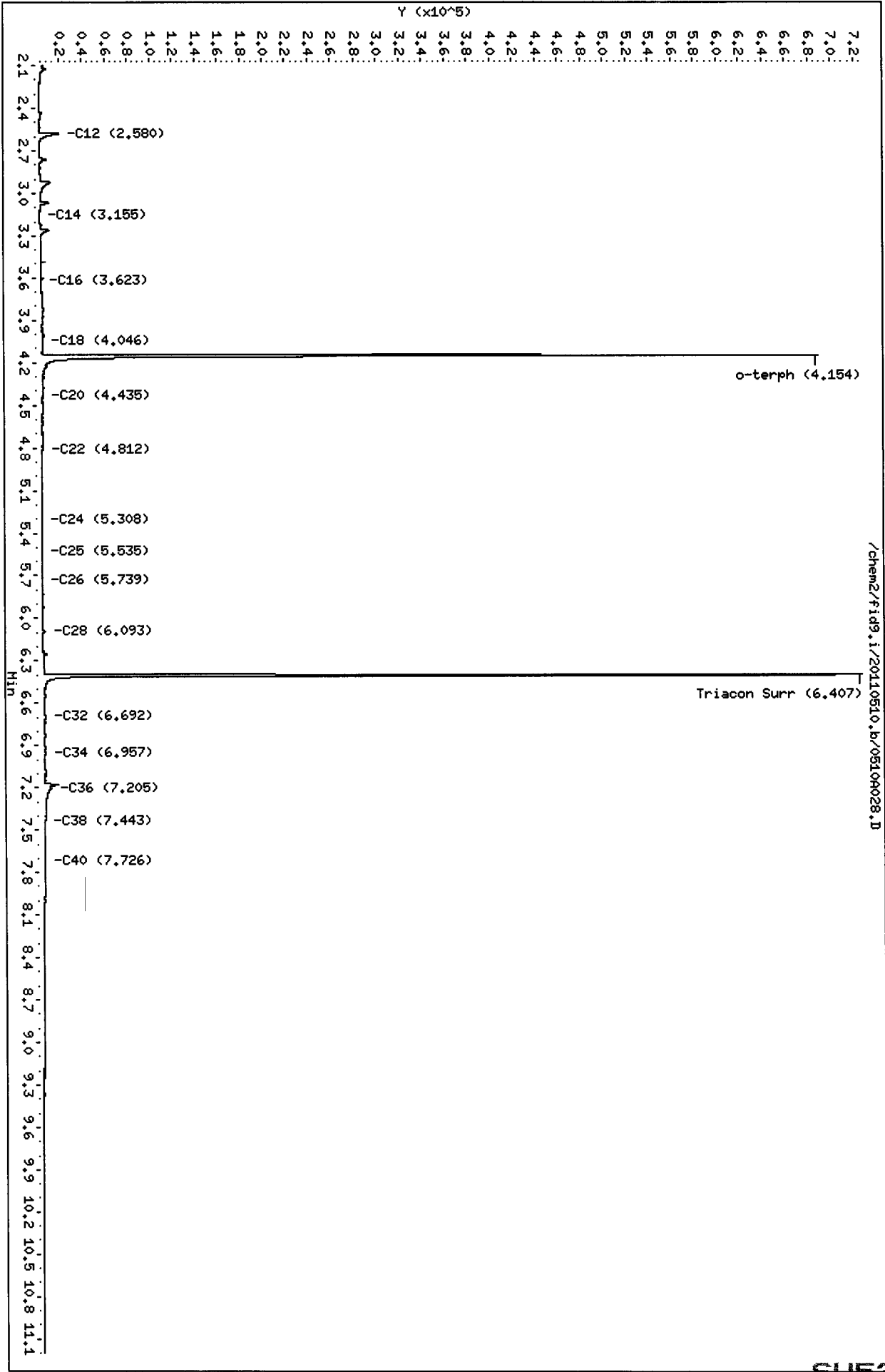
MS 5/12/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05100028.D
Date: 10-MAY-2011 21:03
Client ID: B312-042911
Sample Info: SU74A

Column phase: RTX-1

Instrument: fid9.i
Operator: MS
Column diameter: 0.25



/chem2/fid9.i/20110510.b/05100028.D

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A029.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: SU74B
Client ID: B310-042911
Injection: 10-MAY-2011 21:25
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.595 | -0.005 | 692 | 247 | GAS (Tol-C12) | 25292 | 1.20 |
| C8 | 1.341 | 0.070 | 2007 | 714 | DIESEL (C12-C24) | 44667 | 1.97 |
| C10 | 1.975 | 0.000 | 651 | 347 | M.OIL (C24-C38) | 60332 | 4.55 |
| C12 | 2.616 | -0.002 | 179 | 76 | AK-102 (C10-C25) | 57412 | 2.25 |
| C14 | 3.159 | 0.003 | 208 | 140 | AK-103 (C25-C36) | 46367 | 5.46 |
| C16 | 3.622 | 0.001 | 455 | 354 | | | |
| C18 | 4.031 | -0.007 | 586 | 478 | | | |
| C20 | 4.418 | -0.010 | 445 | 501 | | | |
| C22 | 4.818 | 0.002 | 279 | 246 | | | |
| C24 | 5.316 | 0.006 | 164 | 118 | | | |
| C25 | 5.533 | -0.002 | 100 | 89 | | | |
| C26 | 5.738 | 0.000 | 56 | 11 | | | |
| C28 | 6.098 | 0.004 | 675 | 473 | | | |
| C32 | 6.688 | 0.003 | 361 | 490 | JP-4 (Tol-C14) | 31606 | 1.93 |
| C34 | 6.942 | -0.005 | 294 | 161 | BUNKERC (C10-C38) | 117266 | 15.75 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.204 | 0.007 | 5223 | 5233 | | | |
| C38 | 7.425 | -0.011 | 949 | 1638 | | | |
| C40 | 7.725 | 0.002 | 476 | 406 | | | |
| o-terph | 4.156 | -0.001 | 1070102 | 723384 | JET-A (C10-C18) | 37731 | 2.73 |
| Triacon Surr | 6.412 | -0.003 | 1005150 | 683497 | JP8 (Tol-C16) | 39772 | 2.26 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 723384 | 33.8 | 75.1 |
| Triacontane | 683497 | 38.8 | 86.2 |

ms 5/12/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05109029.D

Date: 10-MAY-2011 21:25

Client ID: B310-042911

Sample Info: SU74B

Column phase: RTX-1

Instrument: fid9.i

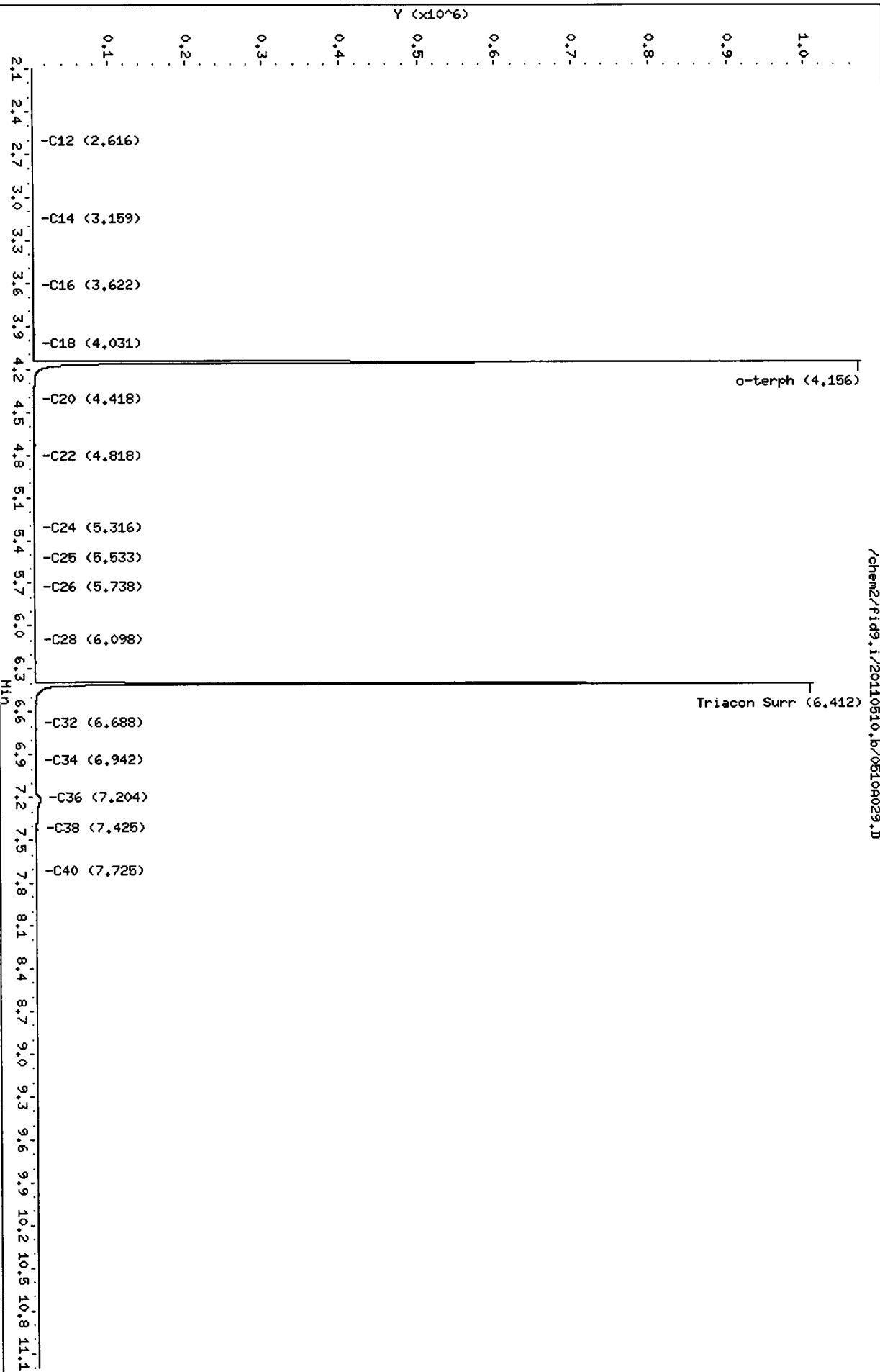
Operator: HS

Column diameter: 0.25

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SU53 : 01101



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A030.D
 Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 05/12/2011

ARI ID: SU74C
 Client ID: B311-042911
 Injection: 10-MAY-2011 21:47
 Dilution Factor: 1
 Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|-------|
| Toluene | 1.609 | 0.010 | 927 | 1106 | GAS (Tol-C12) | 28032 | 1.33 |
| C8 | 1.340 | 0.069 | 2343 | 420 | DIESEL (C12-C24) | 43530 | 1.92 |
| C10 | 1.977 | 0.002 | 676 | 825 | M.OIL (C24-C38) | 59986 | 4.52 |
| C12 | 2.618 | 0.000 | 147 | 48 | AK-102 (C10-C25) | 56940 | 2.23 |
| C14 | 3.160 | 0.004 | 195 | 156 | AK-103 (C25-C36) | 45171 | 5.32 |
| C16 | 3.620 | -0.001 | 504 | 336 | | | |
| C18 | 4.046 | 0.007 | 601 | 718 | | | |
| C20 | 4.433 | 0.006 | 411 | 175 | | | |
| C22 | 4.814 | -0.003 | 263 | 49 | | | |
| C24 | 5.315 | 0.005 | 115 | 80 | | | |
| C25 | 5.532 | -0.003 | 119 | 84 | | | |
| C26 | 5.735 | -0.003 | 55 | 11 | | | |
| C28 | 6.098 | 0.004 | 905 | 678 | | | |
| C32 | 6.690 | 0.005 | 358 | 91 | JP-4 (Tol-C14) | 33849 | 2.06 |
| C34 | 6.942 | -0.006 | 262 | 223 | BUNKERC (C10-C38) | 116455 | 15.64 |
| Filter Peak | ---- | | | | | | |
| C36 | 7.206 | 0.009 | 6357 | 5498 | | | |
| C38 | 7.433 | -0.003 | 641 | 522 | | | |
| C40 | 7.724 | 0.001 | 386 | 354 | | | |
| o-terph | 4.155 | -0.002 | 1114288 | 761505 | JET-A (C10-C18) | 39391 | 2.85 |
| Triacon Surr | 6.412 | -0.003 | 1020947 | 713192 | JP8 (Tol-C16) | 42211 | 2.40 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
 NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|------|
| o-Terphenyl | 761505 | 35.6 | 79.0 |
| Triacontane | 713192 | 40.5 | 89.9 |

MS 5/12/11

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05100030.D

Date: 10-MAY-2011 21:47

Client ID: B311-042911

Sample Info: SU74C

Column phase: RTX-1

Instrument: fid9.i

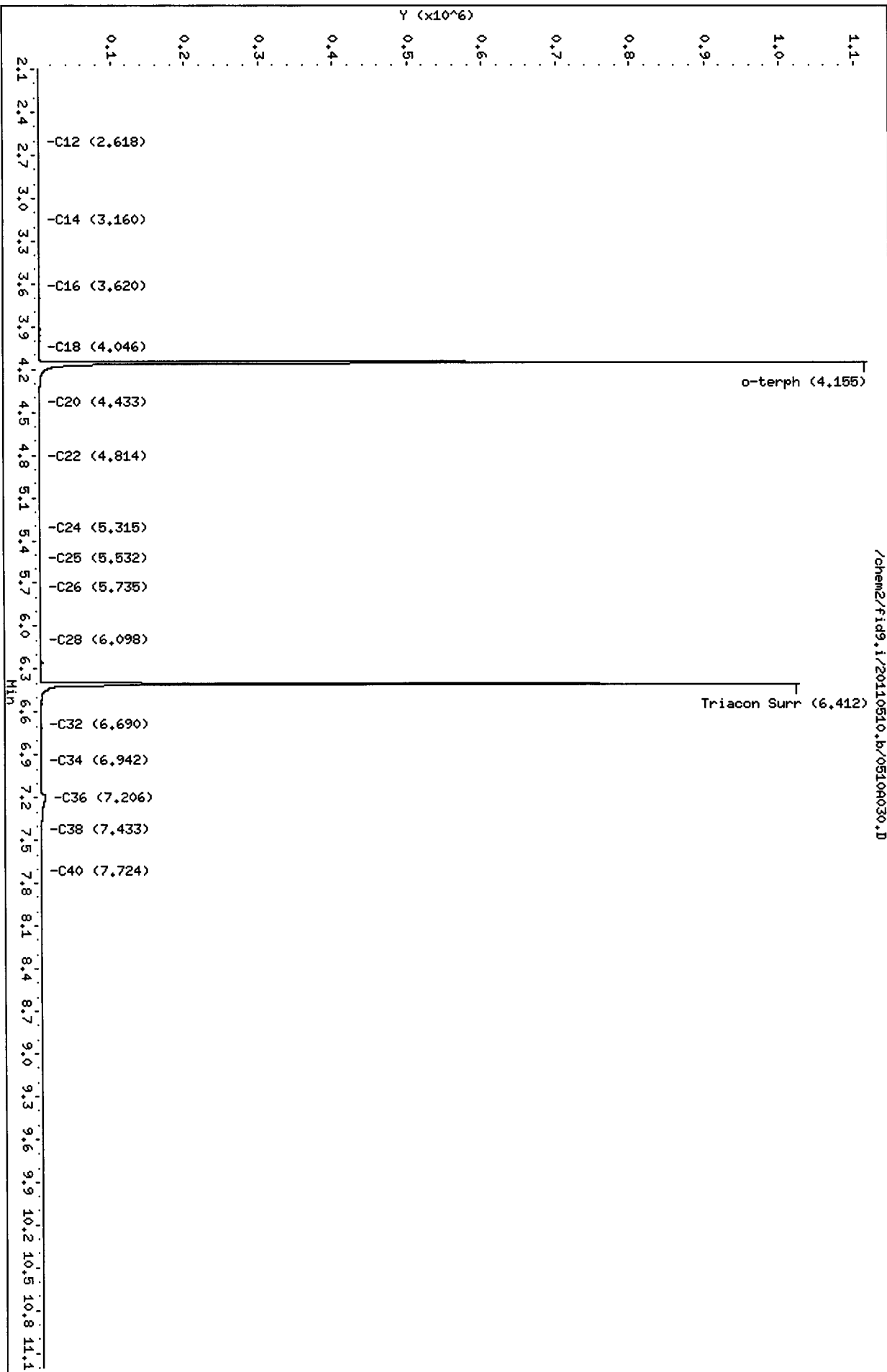
Operator: MS

Column diameter: 0.25

Page 1

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SU53 : 01103



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A031.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: DIESEL#3
Client ID: LORA LAKES
Injection: 10-MAY-2011 22:09
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.614 | 0.015 | 10277 | 15333 | GAS (Tol-C12) | 755154 | 35.94 |
| C8 | 1.327 | 0.055 | 2339 | 1434 | DIESEL (C12-C24) | 5681320 | 250.80 |
| C10 | 1.978 | 0.003 | 26656 | 25753 | M.OIL (C24-C38) | 89371 | 6.74 |
| C12 | 2.623 | 0.005 | 63780 | 52688 | AK-102 (C10-C25) | 6289982 | 246.42 M |
| C14 | 3.154 | -0.002 | 141173 | 107282 | AK-103 (C25-C36) | 65499 | 7.71 |
| C16 | 3.620 | -0.001 | 280933 | 168246 | | | |
| C18 | 4.040 | 0.001 | 266544 | 170523 | | | |
| C20 | 4.428 | 0.000 | 158359 | 106774 | | | |
| C22 | 4.818 | 0.002 | 53448 | 49137 | | | |
| C24 | 5.304 | -0.006 | 4547 | 895 | | | |
| C25 | 5.539 | 0.004 | 2722 | 2219 | | | |
| C26 | 5.733 | -0.005 | 1207 | 449 | | | |
| C28 | 6.097 | 0.003 | 2551 | 2219 | | | |
| C32 | 6.688 | 0.003 | 117 | 31 | JP-4 (Tol-C14) | 1755906 | 107.09 |
| C34 | 6.949 | 0.001 | 44 | 12 | BUNKERC (C10-C38) | 6360220 | 854.36 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.191 | -0.006 | 37 | 22 | | | |
| C38 | 7.419 | -0.017 | 2389 | 1830 | | | |
| C40 | 7.721 | -0.002 | 128 | 87 | | | |
| o-terph | 4.160 | 0.003 | 1671709 | 972029 | JET-A (C10-C18) | 4568729 | 330.61 |
| Triacon Surr | 6.419 | 0.004 | 121 | 99 | JP8 (Tol-C16) | 3166847 | 180.00 |

M Indicates manual integration within range.

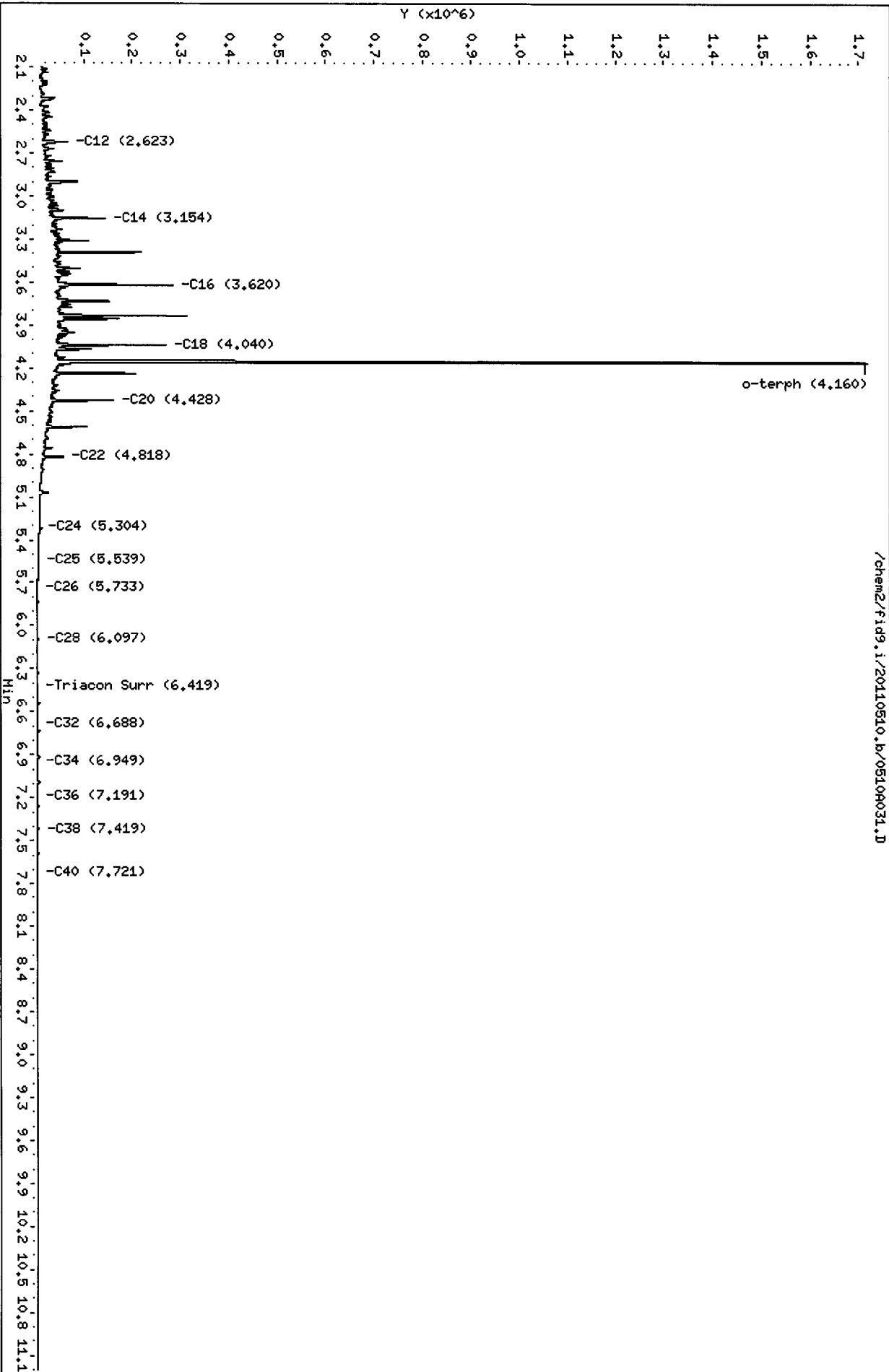
Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 972029 | 45.4 | 100.9 |
| Triacontane | 99 | 0.0 | 0.0 |

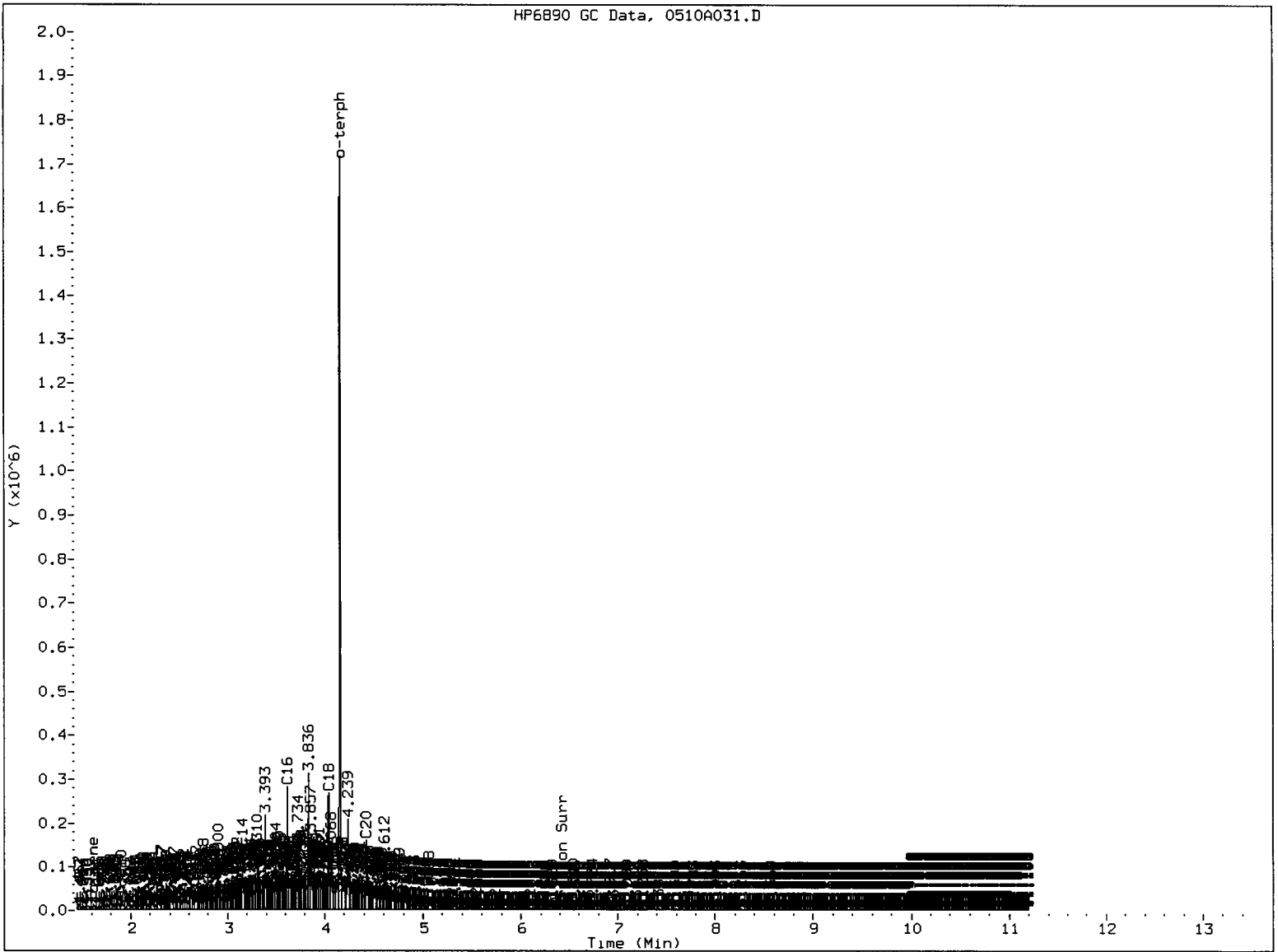
| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05104031.D
Date: 10-MAY-2011 22:09
Client ID: LORA LAKES
Sample Info: DIESEL#3
Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



/chem2/fid9.i/20110510.b/05104031.D



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: *5/12/11*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110510.b/0510A032.D
Method: /chem2/fid9.i/20110510.b/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 05/12/2011

ARI ID: MOIL#3
Client ID: LORA LAKES
Injection: 10-MAY-2011 22:30
Dilution Factor: 1
Macro: 15-FEB-2011

FID:9 RESULTS

| Compound | RT | Shift | Height | Area | Range | Total Area | Conc |
|--------------|-------|--------|---------|--------|-------------------|------------|----------|
| Toluene | 1.593 | -0.007 | 978 | 913 | GAS (Tol-C12) | 24339 | 1.16 |
| C8 | ---- | | | | DIESEL (C12-C24) | 911418 | 40.23 |
| C10 | 1.976 | 0.001 | 852 | 979 | M.OIL (C24-C38) | 6494116 | 489.62 |
| C12 | 2.600 | -0.018 | 1933 | 2398 | AK-102 (C10-C25) | 1122328 | 43.97 |
| C14 | 3.160 | 0.005 | 87 | 53 | AK-103 (C25-C36) | 5907935 | 695.20 M |
| C16 | 3.628 | 0.006 | 91 | 26 | | | |
| C18 | 4.048 | 0.009 | 549 | 203 | | | |
| C20 | 4.427 | -0.001 | 5666 | 6322 | | | |
| C22 | 4.817 | 0.001 | 13749 | 2707 | | | |
| C24 | 5.308 | -0.003 | 25716 | 20778 | | | |
| C25 | 5.539 | 0.004 | 35746 | 23782 | | | |
| C26 | 5.739 | 0.001 | 44697 | 19641 | | | |
| C28 | 6.100 | 0.006 | 61502 | 29016 | | | |
| C32 | 6.682 | -0.003 | 74496 | 72551 | JP-4 (Tol-C14) | 30754 | 1.88 |
| C34 | 6.944 | -0.004 | 61930 | 50334 | BUNKERC (C10-C38) | 7414991 | 996.05 M |
| Filter Peak | ---- | | | | | | |
| C36 | 7.196 | -0.001 | 40629 | 14143 | | | |
| C38 | 7.439 | 0.004 | 21741 | 6607 | | | |
| C40 | 7.723 | 0.000 | 7691 | 5794 | | | |
| o-terph | 4.147 | -0.010 | 879 | 703 | JET-A (C10-C18) | 48276 | 3.49 |
| Triacon Surr | 6.418 | 0.003 | 1345553 | 992098 | JP8 (Tol-C16) | 34924 | 1.99 |

M Indicates manual integration within range.

Range Times: NW Diesel(2.618 - 5.310) AK102(1.98 - 5.54) Jet A(1.98 - 4.04)
NW M.Oil(5.31 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.98 - 6.09)

| Surrogate | Area | Amount | %Rec |
|-------------|--------|--------|-------|
| o-Terphenyl | 703 | 0.0 | 0.1 |
| Triacontane | 992098 | 56.3 | 125.1 |

| Analyte | RF | Curve Date |
|--------------|---------|-------------|
| o-Terph Surr | 21417.1 | 20-JAN-2011 |
| Triacon Surr | 17626.4 | 20-JAN-2011 |
| Gas | 21009.8 | 15-JUN-2010 |
| Diesel | 22653.1 | 20-JAN-2011 |
| Motor Oil | 13263.6 | 20-JAN-2011 |
| AK102 | 25525.9 | 20-JAN-2011 |
| AK103 | 8498.1 | 07-SEP-2010 |
| JP4 | 16396.5 | 09-JUN-2010 |
| JetA | 13819.1 | 11-JUN-2010 |
| Bunker C | 7444.4 | 15-FEB-2011 |
| JP-8 | 17594.0 | 25-MAY-2010 |

Data File: /chem2/fid9.i/20110510.b/05109032.D

Date: 10-May-2011 22:30

Client ID: LORA LAKES

Sample Info: H01L#3

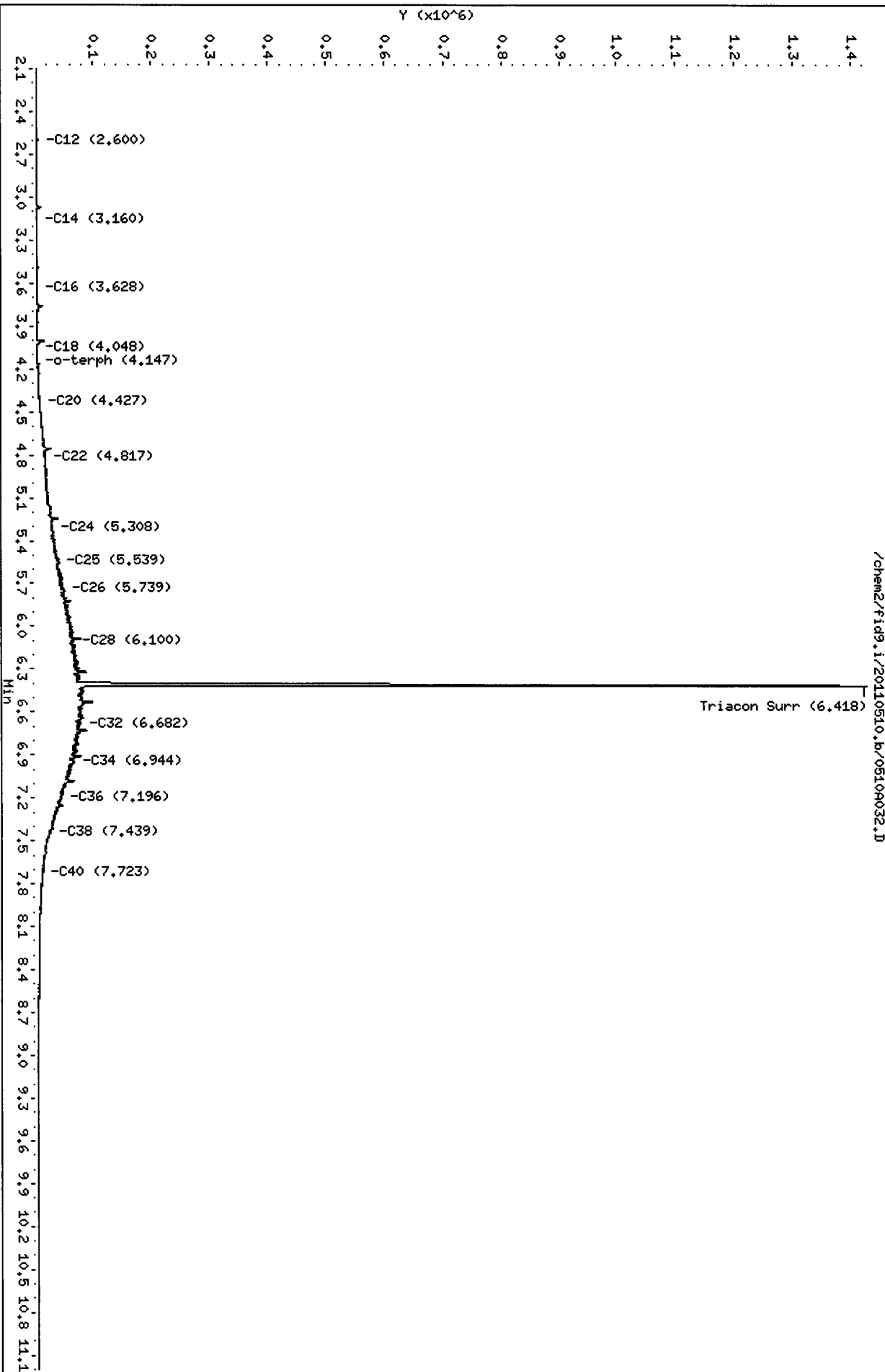
Column phase: RTX-1

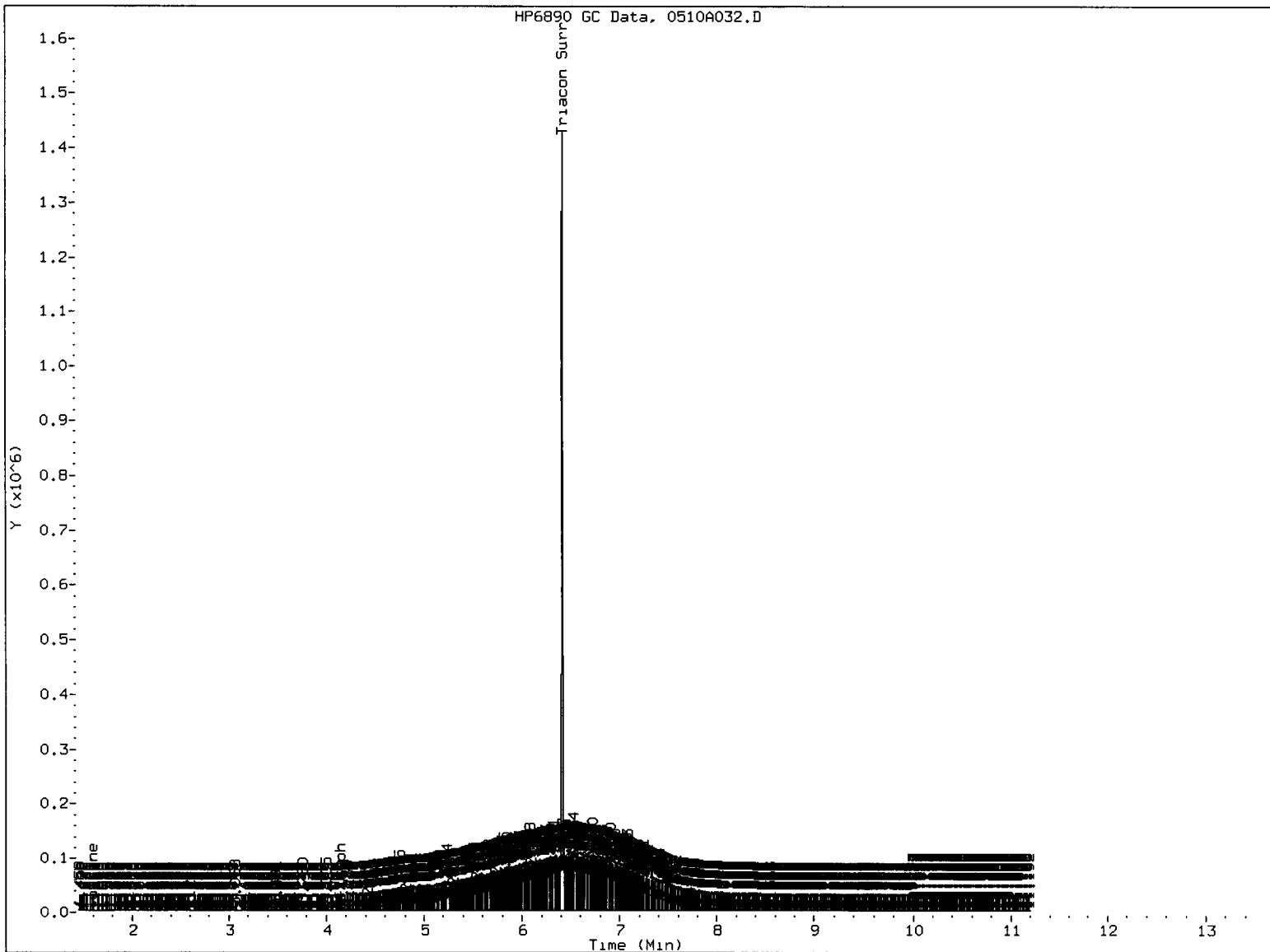
Instrument: fid9.i

Operator: MS

Column diameter: 0.25

/chem2/fid9.i/20110510.b/05109032.D





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: AM

Date: 5/12/11

**TPHG/BETX Raw Data
Initial Calibration Notes and Raw Data**

ARI Job ID: SU53, SU73, SU74