

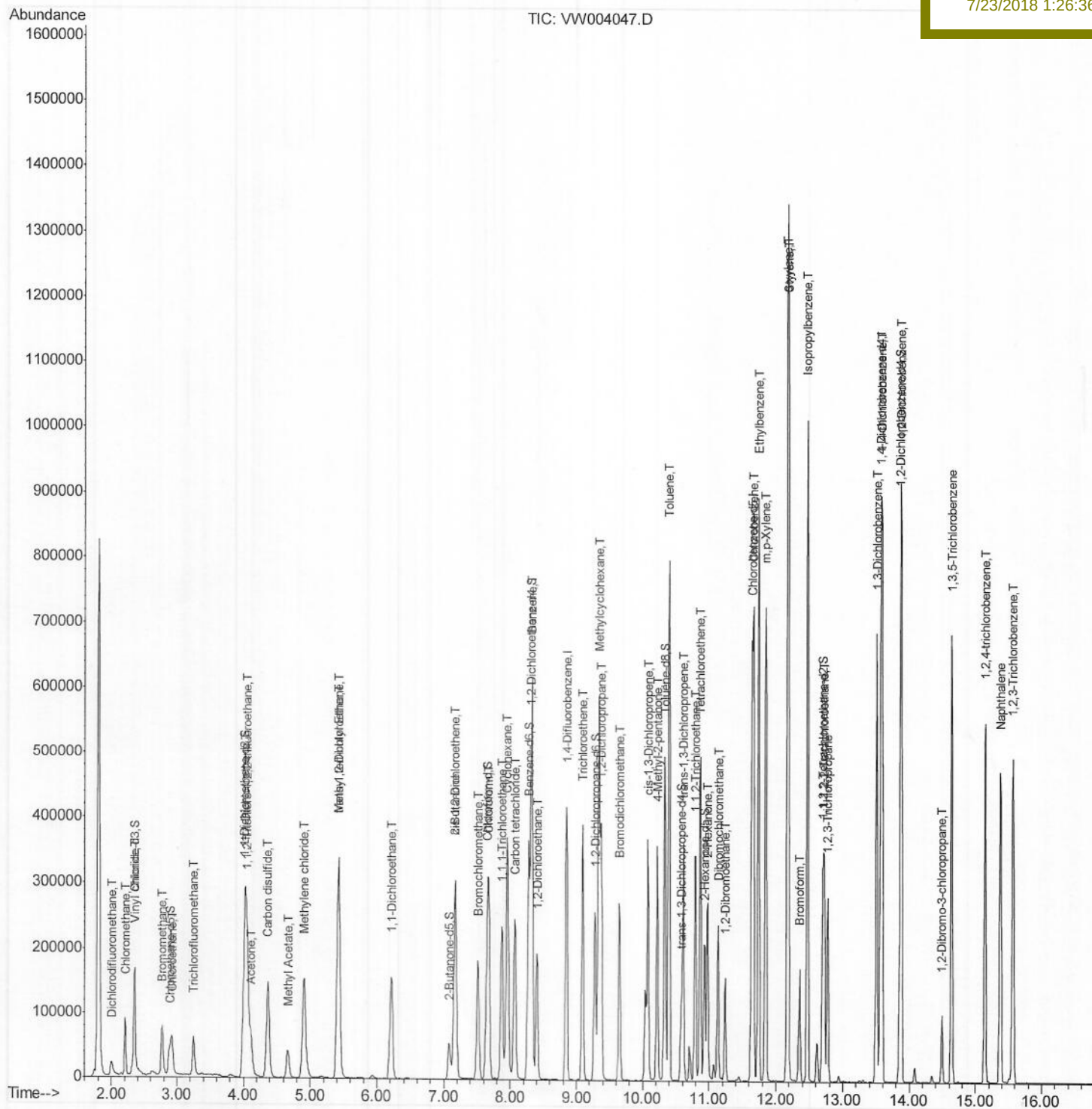
Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW071918\  
Data File : VW004047.D  
Acq On : 19 Jul 2018 20:22  
Operator : VA/AP  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 20 07:19:28 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071818S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 20 06:42:37 2018  
Response via : Initial Calibration

Instrument :  
MSVOA\_W  
Lab Sample Id :  
VSTD02590

Manual Integrations  
APPROVED

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7/23/2018 1:26:36 PM



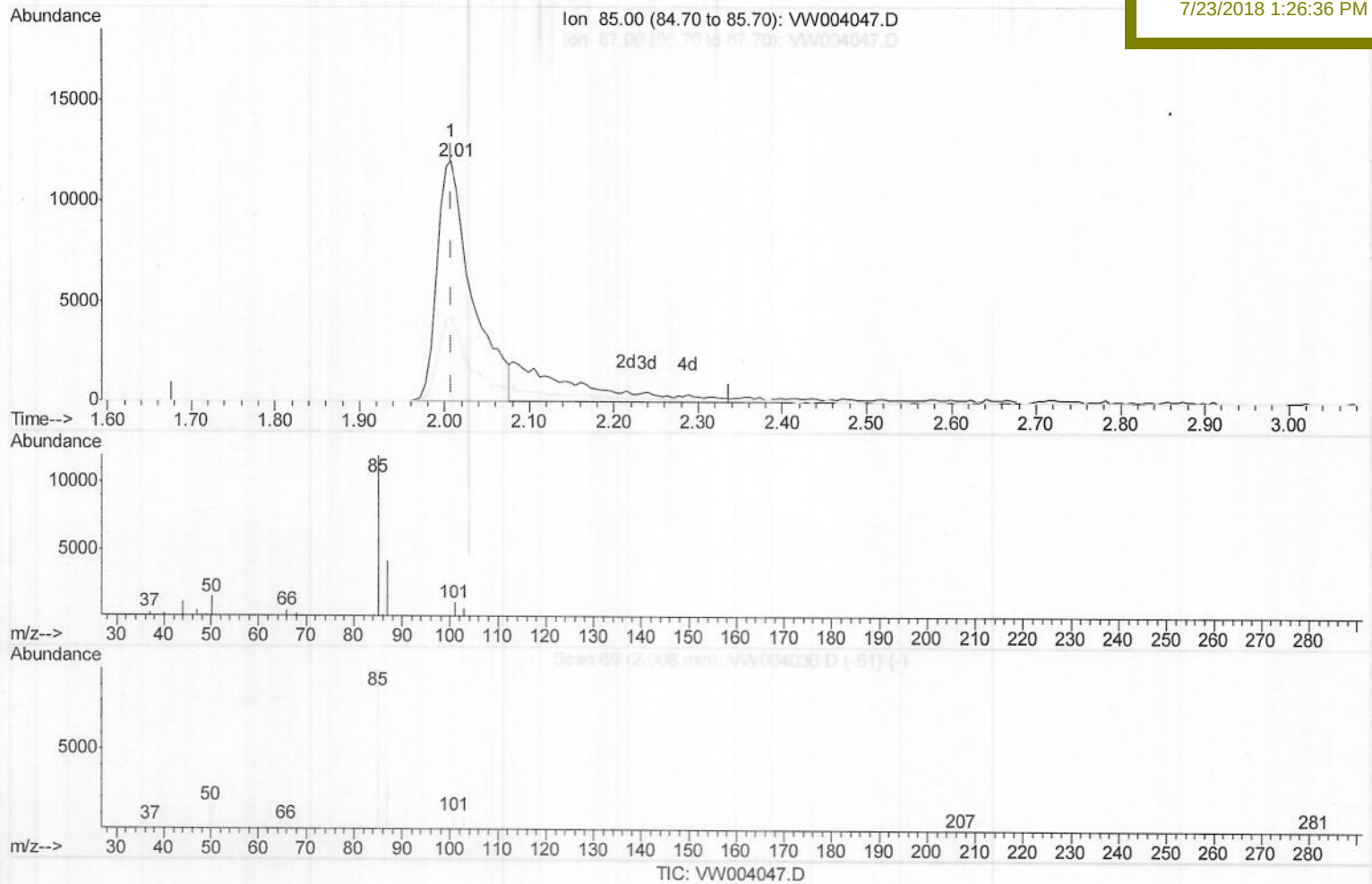
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(2) Dichlorodifluoromethane (T)

2.008min (0.000) 15.59ug/L

response 34384

| Ion   | Exp% | Act%   |
|-------|------|--------|
| 85.00 | 100  | 100    |
| 87.00 | 0.10 | 30.56# |
| 0.00  | 0.00 | 0.00   |
| 0.00  | 0.00 | 0.00   |

# Quantitation Report (Qedit)

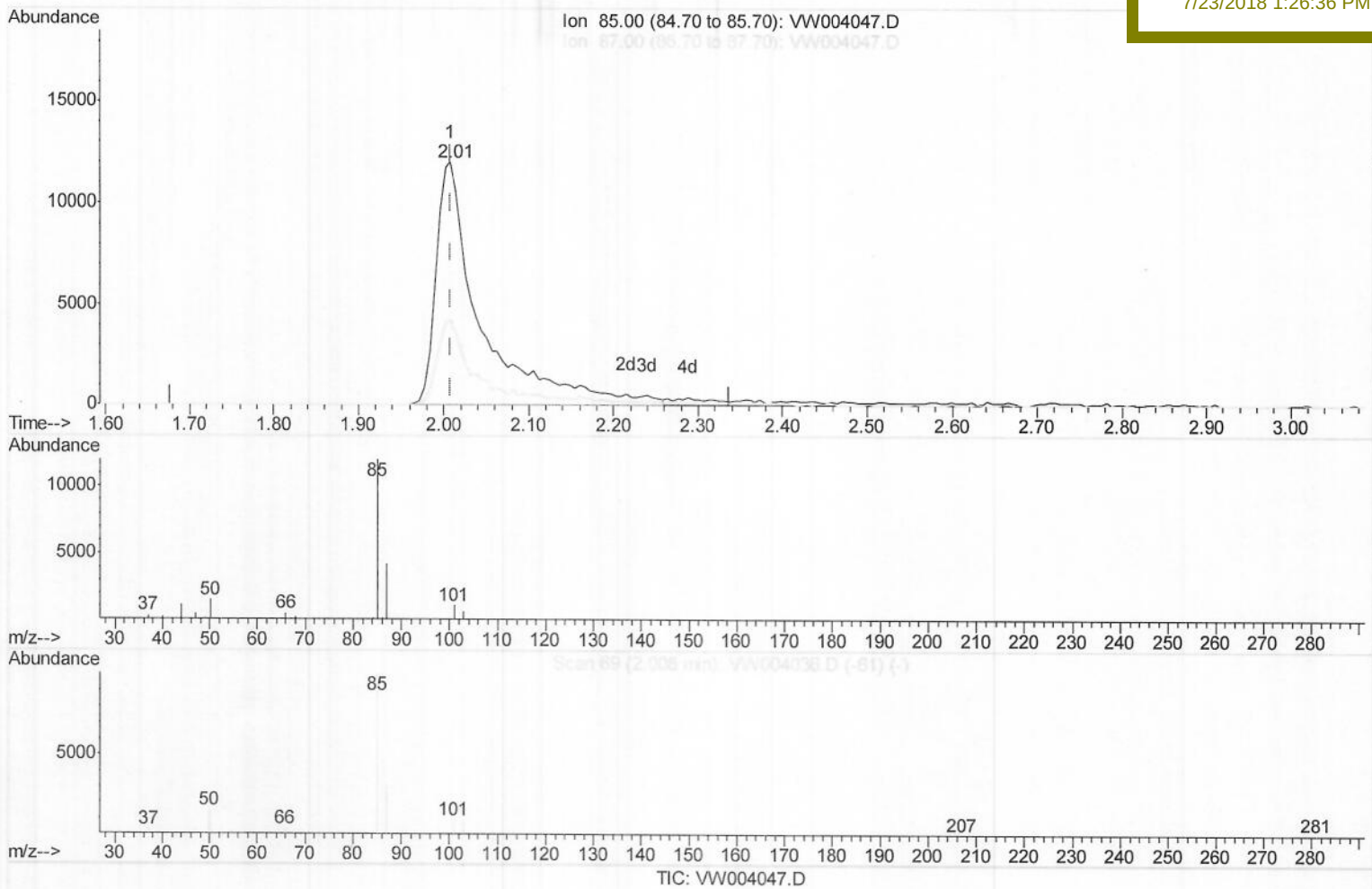
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(2) Dichlorodifluoromethane (T)

2.008min (0.000) 19.96ug/L m )

response 44025

MD  
 07/24/18

| Ion   | Exp% | Act%   |
|-------|------|--------|
| 85.00 | 100  | 100    |
| 87.00 | 0.10 | 23.87# |
| 0.00  | 0.00 | 0.00   |
| 0.00  | 0.00 | 0.00   |



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 7/23/2018 1:26:36 PM

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 344569   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 323525   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 167529   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 70450    | 20.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.68%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 54434    | 22.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.64%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 181802   | 22.23    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 88.92%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 90805    | 45.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.86%  |
| 24) Chloroform-d               | 7.65   | 84    | 204659   | 25.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 100.12% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 121698   | 24.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 98.84%  |
| 29) Benzene-d6                 | 8.27   | 84    | 360816   | 24.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.20%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 124509   | 24.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 99.52%  |
| 37) Toluene-d8                 | 10.33  | 98    | 324368   | 24.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 96.20%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 55457    | 25.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 100.84% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 67609    | 50.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 100.36% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70  | 84    | 139444   | 25.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 101.72% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 133405   | 24.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.04%  |

## Target Compounds

|                                |      |     |         |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 44025m) | 19.955 | ug/L   |
| 3) Chloromethane               | 2.21 | 50  | 77376   | 21.939 | ug/L   |
| 5) Vinyl chloride              | 2.36 | 62  | 116165  | 21.873 | ug/L   |
| 6) Bromomethane                | 2.78 | 94  | 63746   | 22.610 | ug/L   |
| 8) Chloroethane                | 2.92 | 64  | 63422   | 22.780 | ug/L   |
| 9) Trichlorofluoromethane      | 3.25 | 101 | 61017   | 23.060 | ug/L   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 116782  | 24.819 | ug/L   |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 110852  | 24.168 | ug/L   |
| 13) Acetone                    | 4.12 | 43  | 82965   | 38.182 | ug/L   |
| 14) Carbon disulfide           | 4.37 | 76  | 353722  | 23.838 | ug/L   |
| 15) Methyl Acetate             | 4.67 | 43  | 83205   | 22.446 | ug/L   |
| 16) Methylene chloride         | 4.91 | 84  | 130524  | 19.745 | ug/L   |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 229562  | 25.879 | ug/L   |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 119840  | 25.378 | ug/L   |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 230974  | 25.710 | ug/L   |
| 21) 2-Butanone                 | 7.17 | 43  | 112775  | 41.830 | ug/L   |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 132265  | 26.205 | ug/L   |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 62427    | 26.305 | ug/L  | 96       |
| 25) Chloroform                 | 7.68  | 83   | 239666   | 26.124 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 177092   | 26.191 | ug/L  | 96       |
| 30) Cyclohexane                | 7.96  | 56   | 203030   | 25.731 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 188778   | 25.657 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 181427   | 25.557 | ug/L  | 100      |
| 34) Benzene                    | 8.32  | 78   | 524952   | 26.471 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 134569   | 25.361 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 231419   | 26.388 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 141706   | 26.359 | ug/L  | 99       |
| 41) Bromodichloromethane       | 9.65  | 83   | 177032   | 26.745 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 205720   | 27.157 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 232461   | 49.186 | ug/L  | 99       |
| 44) Toluene                    | 10.39 | 91   | 561683   | 27.029 | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 189131   | 27.068 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 108975   | 26.082 | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.87 | 164  | 108609   | 25.380 | ug/L  | 93       |
| 49) 2-Hexanone                 | 10.98 | 43   | 175594   | 47.991 | ug/L  | 100      |
| 50) Dibromochloromethane       | 11.13 | 129  | 126658   | 27.060 | ug/L  | 97       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 105149   | 25.767 | ug/L  | 99       |
| 52) Chlorobenzene              | 11.66 | 112  | 349049   | 26.197 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.74 | 91   | 614024   | 27.297 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.85 | 106  | 231258   | 27.894 | ug/L  | 96       |
| 55) o-xylene                   | 12.17 | 106  | 224292   | 28.284 | ug/L  | 99       |
| 56) Styrene                    | 12.19 | 104  | 396266   | 28.927 | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.47 | 105  | 613158   | 28.202 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 149347   | 25.007 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 114310   | 24.726 | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 79836    | 25.252 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 270781   | 26.243 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 283736   | 25.646 | ug/L  | 96       |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 266985   | 26.552 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 25977    | 22.159 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 14.64 | 180  | 208393   | 25.541 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 174358   | 26.647 | ug/L  | 97       |
| 69) Naphthalene                | 15.38 | 128  | 393192   | 26.689 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 168279   | 27.030 | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed