

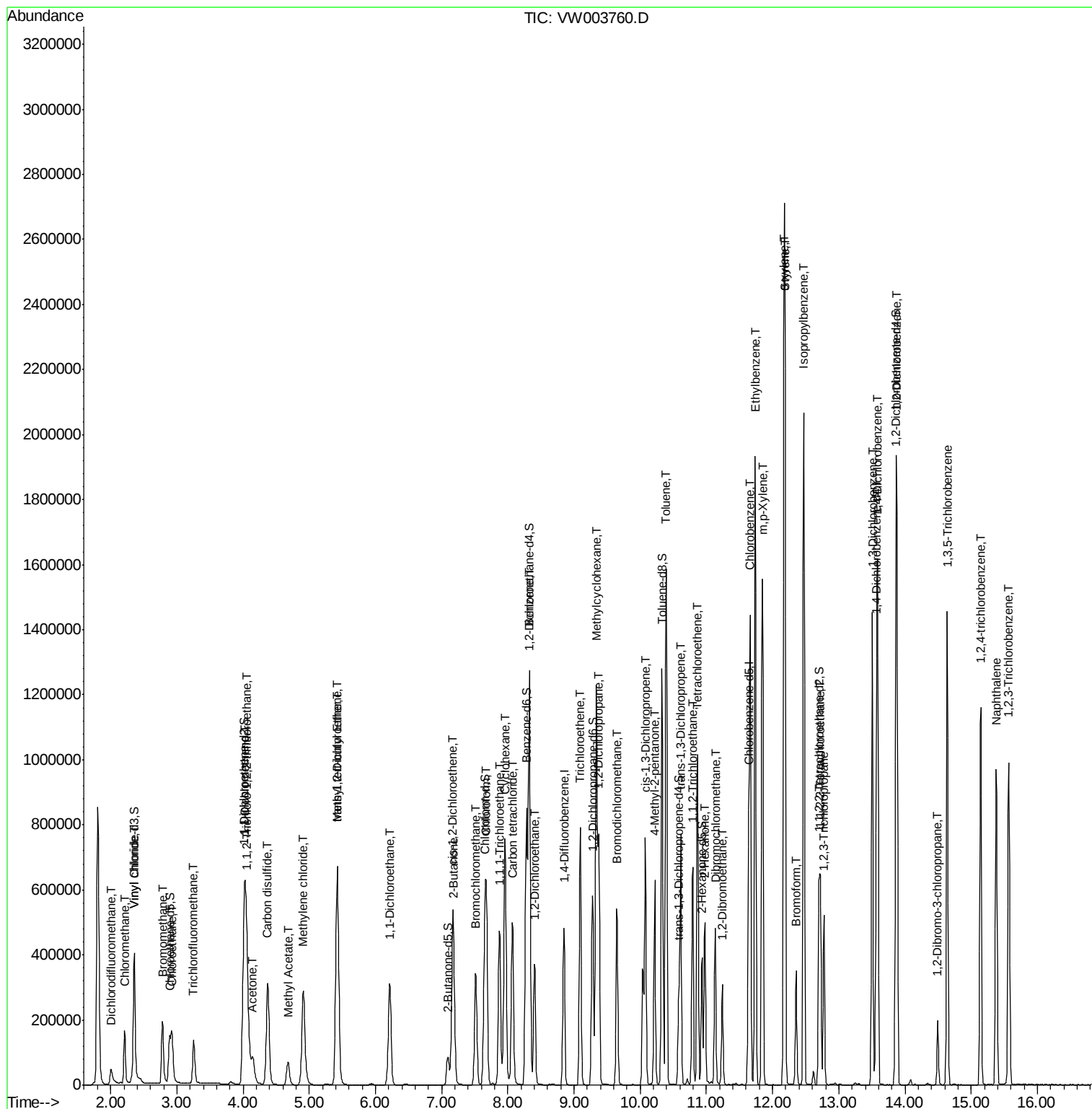
Data File : VW003760.D  
Acq On : 07 Jul 2018 10:44  
Operator : SY/AP  
Sample : VSTD05090  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
Client Sample Id :  
VSTD05090

Manual Integrations  
APPROVED

MMDadoda  
7/9/2018 12:57:20 PM

Quant Time: Jul 09 09:28:47 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070818S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jul 09 04:17:35 2018  
Response via : Initial Calibration



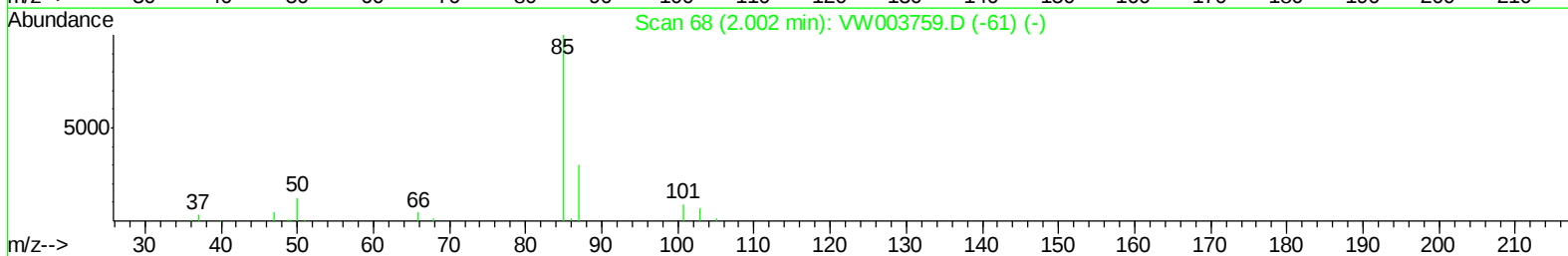
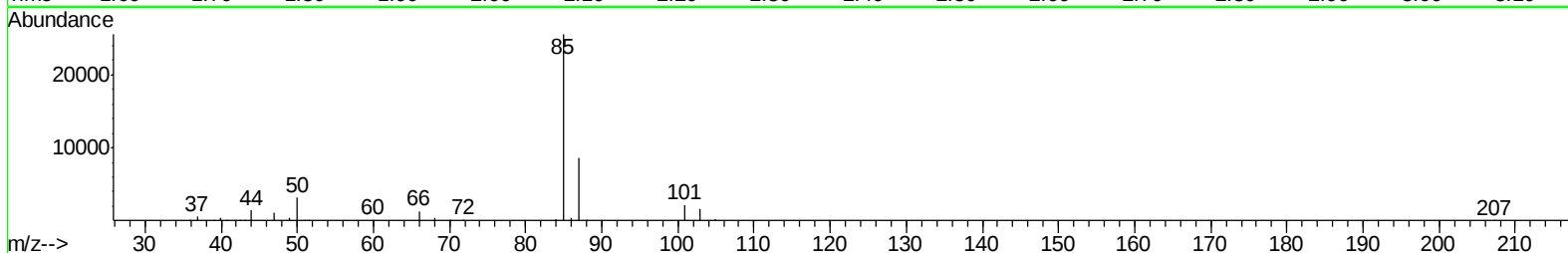
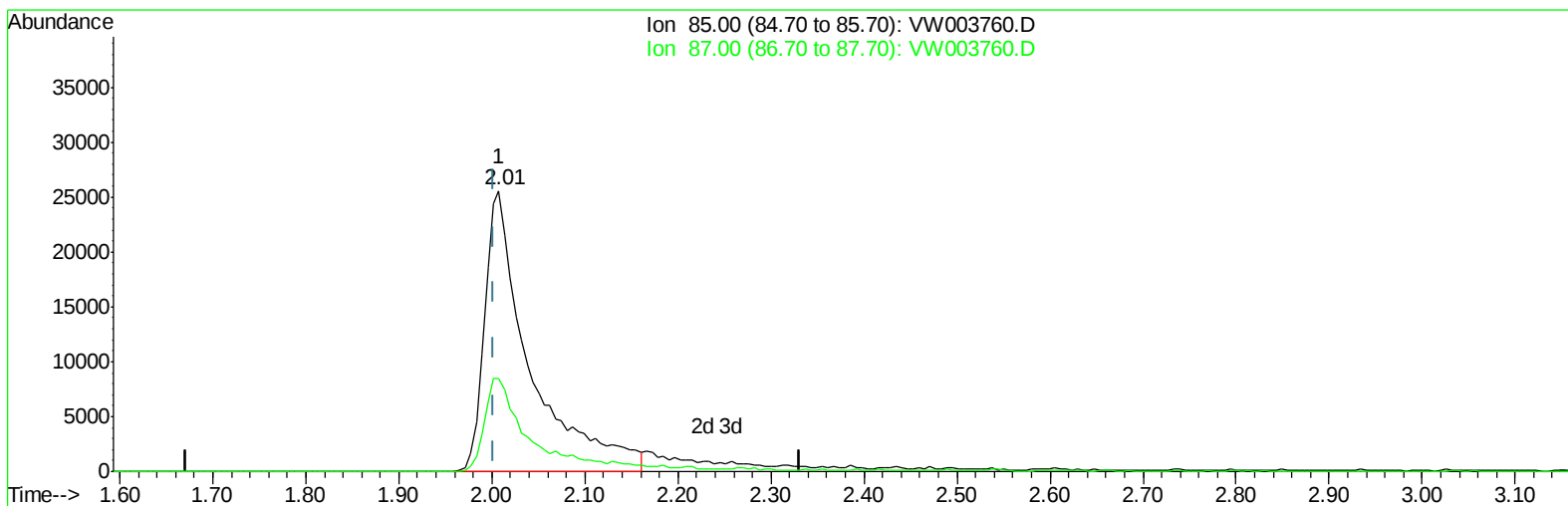
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070818\  
Data File : VW003760.D  
Acq On : 07 Jul 2018 10:44  
Operator : SY/AP  
Sample : VSTD05090  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05090

Manual Integrations  
APPROVED

MMDadoda  
7/9/2018 12:57:20 PM

Quant Time: Jul 09 04:18:40 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070818S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jul 09 04:17:35 2018  
Response via : Initial Calibration



TIC: VW003760.D

(2) Dichlorodifluoromethane (T)

2.008min (+0.006) 26.05ug/L

response 86091

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 85.00 | 100   | 100   |
| 87.00 | 23.40 | 28.31 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

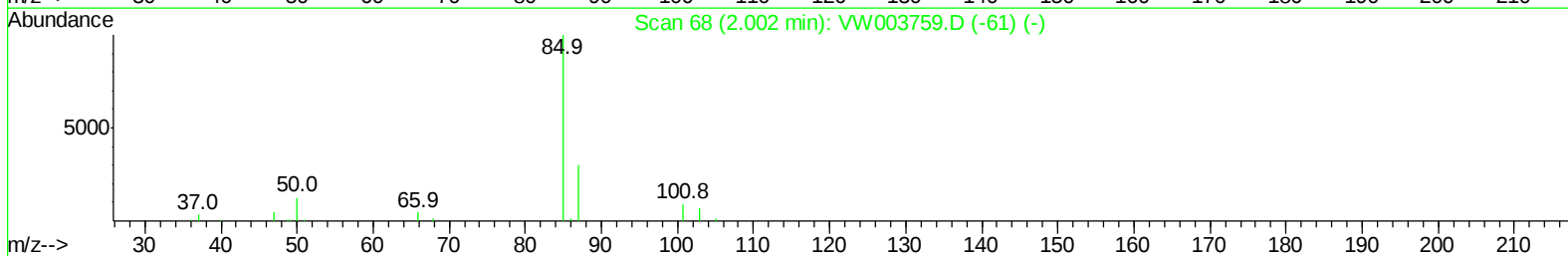
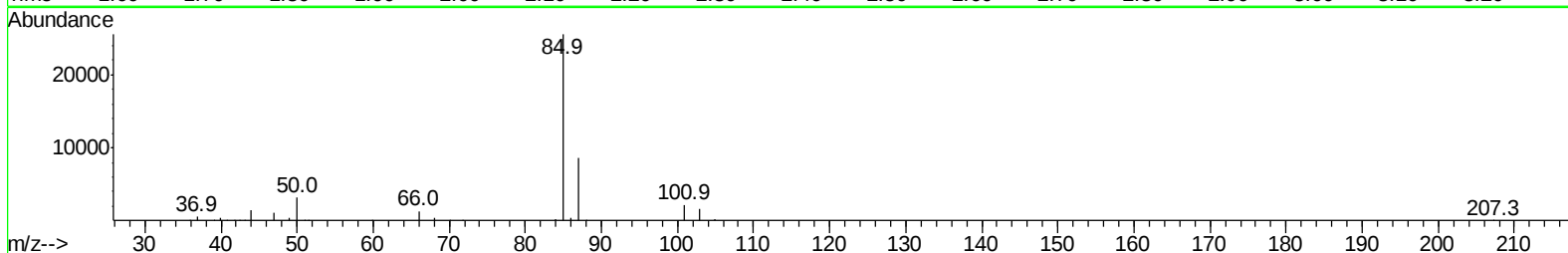
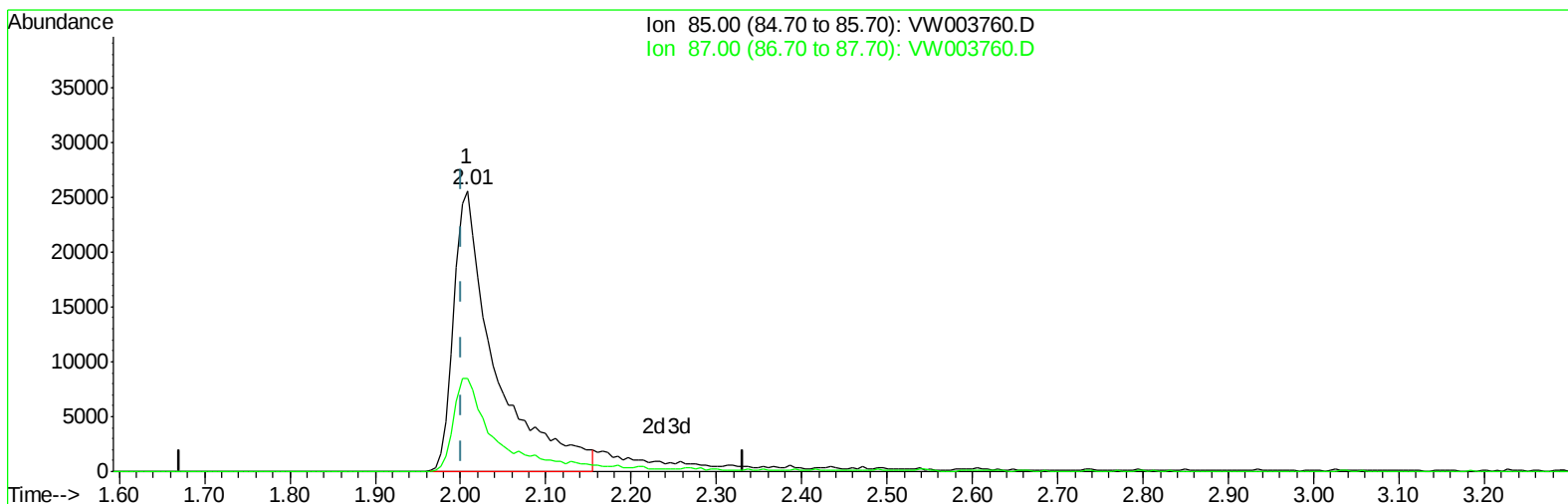
Data File : VW003760.D  
Acq On : 07 Jul 2018 10:44  
Operator : SY/AP  
Sample : VSTD05090  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05090

Manual Integrations  
APPROVED

MMDadoda  
7/9/2018 12:57:20 PM

Quant Time: Jul 09 04:30:59 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070818S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jul 09 04:17:35 2018  
Response via : Initial Calibration



TIC: VW003760.D

(2) Dichlorodifluoromethane (T)

2.008min (+0.006) 25.85ug/L m

response 85445

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 85.00 | 100   | 100   |
| 87.00 | 23.40 | 28.52 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

Data File : VW003760.D  
Acq On : 07 Jul 2018 10:44  
Operator : SY/AP  
Sample : VSTD05090  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05090

Manual Integrations  
APPROVED

MMDadoda  
7/9/2018 12:57:20 PM

Quant Time: Jul 09 09:28:47 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070818S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jul 09 04:17:35 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 388573   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 366325   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 188293   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 209338 | 40.15  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 168336 | 42.32  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 454448 | 45.80  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 158750 | 96.45  | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 446080 | 42.16  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 264909 | 41.80  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 851440 | 43.88  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 276227 | 43.80  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.33 | 98  | 822354 | 44.73  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 130739 | 45.24  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 124313 | 102.90 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70 | 84  | 262924 | 44.57  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 307550 | 43.21  | ug/L | 0.00 |

#### Target Compounds

|                                |       |     |         |        |      | Qvalue |
|--------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 85445m  | 25.853 | ug/L |        |
| 3) Chloromethane               | 2.21  | 50  | 166722  | 36.895 | ug/L | 100    |
| 5) Vinyl chloride              | 2.36  | 62  | 259053  | 39.224 | ug/L | 98     |
| 6) Bromomethane                | 2.78  | 94  | 147154  | 38.893 | ug/L | 98     |
| 8) Chloroethane                | 2.92  | 64  | 158520  | 43.673 | ug/L | 100    |
| 9) Trichlorofluoromethane      | 3.25  | 101 | 136171  | 44.257 | ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 232353  | 47.538 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 225151  | 47.060 | ug/L | 98     |
| 13) Acetone                    | 4.15  | 43  | 144444  | 79.319 | ug/L | 100    |
| 14) Carbon disulfide           | 4.37  | 76  | 730444  | 46.819 | ug/L | 100    |
| 15) Methyl Acetate             | 4.68  | 43  | 146020  | 50.197 | ug/L | 100    |
| 16) Methylene chloride         | 4.91  | 84  | 236688  | 37.998 | ug/L | 95     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 462192  | 50.620 | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 242213  | 46.694 | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 455399  | 45.120 | ug/L | 99     |
| 21) 2-Butanone                 | 7.19  | 43  | 203147  | 88.727 | ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 266528  | 46.841 | ug/L | 96     |
| 23) Bromochloromethane         | 7.51  | 128 | 119764  | 44.711 | ug/L | 97     |
| 25) Chloroform                 | 7.68  | 83  | 468967  | 44.779 | ug/L | 98     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 337290  | 43.999 | ug/L | 97     |
| 30) Cyclohexane                | 7.96  | 56  | 437825  | 51.174 | ug/L | 100    |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 379747  | 46.452 | ug/L | 100    |
| 32) Carbon tetrachloride       | 8.07  | 117 | 367936  | 45.983 | ug/L | 99     |
| 34) Benzene                    | 8.32  | 78  | 1035206 | 46.897 | ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 271537  | 46.242 | ug/L | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 496412  | 50.272 | ug/L | 98     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 275420  | 47.106 | ug/L | 99     |
| 41) Bromodichloromethane       | 9.65  | 83  | 349354  | 45.950 | ug/L | 100    |
| 42) cis-1,3-Dichloropropene    | 10.08 | 75  | 430697  | 49.448 | ug/L | 100    |
| 43) 4-Methyl-2-pentanone       | 10.22 | 43  | 419411  | 99.762 | ug/L | 99     |

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Quant Title : VOC Analysis  
QLast Update : Mon Jul 09 04:17:35 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 10.39 | 91   | 1141341  | 48.375 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 388580   | 48.813 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 206447   | 46.434 | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.87 | 164  | 225276   | 46.274 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.98 | 43   | 320256   | 98.961 | ug/L  | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 249640   | 46.904 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 203496   | 47.475 | ug/L  | 97       |
| 52) Chlorobenzene              | 11.66 | 112  | 720961   | 46.448 | ug/L  | 98       |
| 53) Ethylbenzene               | 11.74 | 91   | 1315606  | 49.331 | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.85 | 106  | 487854   | 49.678 | ug/L  | 99       |
| 55) o-xylene                   | 12.17 | 106  | 468389   | 50.511 | ug/L  | 99       |
| 56) Styrene                    | 12.19 | 104  | 815672   | 50.297 | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.47 | 105  | 1292613  | 50.818 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 276340   | 46.782 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 209611   | 47.574 | ug/L  | 99       |
| 62) Bromoform                  | 12.35 | 173  | 156134   | 46.308 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 563537   | 47.337 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 585078   | 45.391 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 539744   | 46.393 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 47546    | 45.196 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 14.64 | 180  | 438948   | 46.792 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 367825   | 48.822 | ug/L  | 99       |
| 69) Naphthalene                | 15.38 | 128  | 807851   | 53.565 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 338741   | 47.592 | ug/L  | 99       |

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