

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111419\  
 Data File : VY000682.D  
 Acq On : 14 Nov 2019 19:42  
 Operator : SY/MD  
 Sample : MDL3  
 Misc : 5ML/MSVOA Y/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL3

Manual Integrations  
 APPROVED

MMDadoda  
 11/15/2019 3:05:05 PM

Quant Time: Nov 15 10:34:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOMYLM111419WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 15 10:16:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 301973   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 266856   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 121914   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.24    | 65    | 114612   | 48.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.64%  |
| 7) Chloroethane-d5             | 2.76    | 69    | 101044   | 51.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 103.34% |
| 11) 1,1-Dichloroethene-d2      | 3.85    | 63    | 155329   | 37.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.26%  |
| 21) 2-Butanone-d5              | 6.91    | 46    | 113537   | 121.34   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 121.34% |
| 24) Chloroform-d               | 7.49    | 84    | 185266   | 54.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.38% |
| 26) 1,2-Dichloroethane-d4      | 8.15    | 65    | 128572   | 53.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.62% |
| 32) Benzene-d6                 | 8.12    | 84    | 402342   | 53.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.84% |
| 36) 1,2-Dichloropropane-d6     | 9.13    | 67    | 128361   | 55.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 111.50% |
| 41) Toluene-d8                 | 10.18   | 98    | 342590   | 49.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.16%  |
| 43) trans-1,3-Dichloropropene- | 10.44   | 79    | 61659    | 53.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 107.04% |
| 47) 2-Hexanone-d5              | 10.79   | 63    | 79416    | 117.00   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 117.00% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.56   | 84    | 145552   | 53.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 107.18% |
| 64) 1,2-Dichlorobenzene-d4     | 13.72   | 152   | 123699   | 52.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.88% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.90 | 85   | 3191     | 1.851 | ug/L # | 86     |
| 3) Chloromethane               | 2.12 | 50   | 6412     | 2.796 | ug/L   | 98     |
| 5) Vinyl chloride              | 2.25 | 62   | 6107     | 2.656 | ug/L # | 55     |
| 6) Bromomethane                | 2.66 | 94   | 4028     | 3.047 | ug/L   | 94     |
| 8) Chloroethane                | 2.79 | 64   | 3832     | 2.655 | ug/L   | 87     |
| 9) Trichlorofluoromethane      | 3.13 | 101  | 6945     | 2.046 | ug/L   | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.90 | 101  | 4846m    | 2.558 | ug/L   |        |
| 12) 1,1-Dichloroethene         | 3.87 | 96   | 5958m    | 3.143 | ug/L   |        |
| 13) Acetone                    | 3.96 | 43   | 4673     | 6.937 | ug/L   | 82     |
| 14) Carbon disulfide           | 4.19 | 76   | 13394    | 2.562 | ug/L   | 99     |
| 15) Methyl Acetate             | 4.49 | 43   | 4727     | 2.792 | ug/L # | 71     |
| 16) Methylene chloride         | 4.71 | 84   | 6501m    | 3.208 | ug/L   |        |
| 17) trans-1,2-Dichloroethene   | 5.22 | 96   | 5294     | 2.675 | ug/L   | 96     |
| 18) Methyl tert-butyl Ether    | 5.24 | 73   | 16679    | 2.799 | ug/L # | 78     |
| 19) 1,1-Dichloroethane         | 6.02 | 63   | 9921m    | 2.789 | ug/L   |        |
| 20) cis-1,2-Dichloroethene     | 7.00 | 96   | 6350     | 2.862 | ug/L   | 84     |
| 22) 2-Butanone                 | 7.01 | 43   | 6334     | 5.975 | ug/L   | 89     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111419\  
 Data File : VY000682.D  
 Acq On : 14 Nov 2019 19:42  
 Operator : SY/MD  
 Sample : MDL3  
 Misc : 5ML/MSVOA Y/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL3

Manual Integrations  
 APPROVED

MMDadoda  
 11/15/2019 3:05:05 PM

Quant Time: Nov 15 10:34:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOMYLM111419WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 15 10:16:24 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane          | 7.35  | 128  | 2867     | 2.803 | ug/L   | 85       |
| 25) Chloroform                  | 7.52  | 83   | 23552    | 5.782 | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 8.25  | 62   | 8122     | 2.920 | ug/L # | 94       |
| 29) Cyclohexane                 | 7.78  | 56   | 5668     | 1.820 | ug/L # | 22       |
| 30) 1,1,1-Trichloroethane       | 7.71  | 97   | 7943     | 2.725 | ug/L # | 72       |
| 31) Carbon tetrachloride        | 7.90  | 117  | 5936     | 2.274 | ug/L   | 95       |
| 33) Benzene                     | 8.17  | 78   | 21987    | 2.766 | ug/L   | 100      |
| 34) Trichloroethene             | 8.94  | 95   | 4655     | 2.332 | ug/L   | 93       |
| 35) Methylcyclohexane           | 9.19  | 83   | 5582     | 1.694 | ug/L # | 93       |
| 37) 1,2-Dichloropropane         | 9.22  | 63   | 5814     | 2.948 | ug/L # | 91       |
| 38) Bromodichloromethane        | 9.50  | 83   | 7266     | 2.743 | ug/L # | 93       |
| 39) cis-1,3-Dichloropropene     | 9.93  | 75   | 9791     | 2.922 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 10.08 | 43   | 12337    | 5.454 | ug/L   | 99       |
| 42) Toluene                     | 10.25 | 91   | 21191    | 2.518 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene   | 10.46 | 75   | 8760     | 2.986 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 10.64 | 97   | 5307     | 2.837 | ug/L # | 83       |
| 46) Tetrachloroethene           | 10.71 | 164  | 3134     | 2.029 | ug/L   | 93       |
| 48) 2-Hexanone                  | 10.83 | 43   | 10485    | 6.420 | ug/L   | 93       |
| 49) Dibromochloromethane        | 10.99 | 129  | 5598     | 2.763 | ug/L   | 86       |
| 50) 1,2-Dibromoethane           | 11.09 | 107  | 5207     | 2.781 | ug/L # | 74       |
| 51) Chlorobenzene               | 11.52 | 112  | 14132    | 2.607 | ug/L # | 88       |
| 52) Ethylbenzene                | 11.60 | 91   | 21110    | 2.198 | ug/L   | 97       |
| 53) m,p-Xylene                  | 11.70 | 106  | 8281     | 2.242 | ug/L   | 94       |
| 54) o-xylene                    | 12.02 | 106  | 7533     | 2.080 | ug/L   | 78       |
| 55) Styrene                     | 12.04 | 104  | 13816    | 2.246 | ug/L   | 90       |
| 56) Isopropylbenzene            | 12.33 | 105  | 17395    | 1.877 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.58 | 83   | 8321     | 3.144 | ug/L # | 80       |
| 59) 1,2,3-Trichloropropane      | 12.63 | 75   | 5801     | 2.771 | ug/L   | 93       |
| 61) Bromoform                   | 12.20 | 173  | 3414     | 2.766 | ug/L # | 97       |
| 62) 1,3-Dichlorobenzene         | 13.36 | 146  | 9358     | 2.448 | ug/L   | 93       |
| 63) 1,4-Dichlorobenzene         | 13.45 | 146  | 10230    | 2.612 | ug/L   | 90       |
| 65) 1,2-Dichlorobenzene         | 13.73 | 146  | 10786    | 2.864 | ug/L   | 94       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.36 | 75   | 1470     | 3.231 | ug/L # | 86       |
| 67) 1,3,5-Trichlorobenzene      | 14.50 | 180  | 6464     | 2.422 | ug/L   | 95       |
| 68) 1,2,4-trichlorobenzene      | 15.00 | 180  | 6728     | 2.688 | ug/L   | 98       |
| 69) Naphthalene                 | 15.23 | 128  | 20284    | 2.712 | ug/L # | 95       |
| 70) 1,2,3-Trichlorobenzene      | 15.42 | 180  | 6492     | 2.695 | ug/L   | 99       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY111419\  
Data File : VY000682.D  
Acq On : 14 Nov 2019 19:42  
Operator : SY/MD  
Sample : MDL3  
Misc : 5ML/MSVOA Y/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL3

Manual Integrations  
APPROVED

MMDadoda  
11/15/2019 3:05:05 PM

Quant Time: Nov 15 10:34:50 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\SOMYLM111419WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 15 10:16:24 2019  
Response via : Initial Calibration

