

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122718\  
 Data File : VW007919.D  
 Acq On : 26 Dec 2018 12:04  
 Operator : SY/AP  
 Sample : VSTD2.587  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.587

Manual Integrations  
 APPROVED

MMDadoda  
 12/27/2018 4:48:34 PM

Quant Time: Dec 26 12:36:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 26 10:32:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 88510    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 80827    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 39689    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |       |
|--------------------------------|-------|-----|-------|------|------|-------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 2635  | 4.57 | ug/L | 0.00  |
| 7) Chloroethane-d5             | 2.89  | 69  | 1764m | 3.61 | ug/L | -0.01 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 7431  | 3.74 | ug/L | 0.00  |
| 20) 2-Butanone-d5              | 7.09  | 46  | 2514m | 6.92 | ug/L | 0.01  |
| 24) Chloroform-d               | 7.65  | 84  | 7698  | 3.69 | ug/L | 0.00  |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 4702  | 3.96 | ug/L | 0.00  |
| 29) Benzene-d6                 | 8.27  | 84  | 14654 | 3.34 | ug/L | 0.00  |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 4019  | 3.21 | ug/L | 0.00  |
| 37) Toluene-d8                 | 10.32 | 98  | 14253 | 3.46 | ug/L | 0.00  |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 2251  | 3.51 | ug/L | 0.00  |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 2160  | 7.16 | ug/L | 0.00  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 4119  | 3.61 | ug/L | 0.00  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 5608  | 4.02 | ug/L | 0.00  |

## Target Compounds

|                                |       |     |       |       | Qvalue |
|--------------------------------|-------|-----|-------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 2553m | 2.641 | ug/L   |
| 3) Chloromethane               | 2.21  | 50  | 2234  | 2.887 | ug/L   |
| 5) Vinyl chloride              | 2.36  | 62  | 2468  | 3.381 | ug/L   |
| 6) Bromomethane                | 2.79  | 94  | 1422  | 2.816 | ug/L   |
| 8) Chloroethane                | 2.93  | 64  | 1170m | 2.662 | ug/L   |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 1905  | 2.273 | ug/L   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 3061m | 2.740 | ug/L   |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 2572  | 2.474 | ug/L   |
| 13) Acetone                    | 4.12  | 43  | 2144  | 5.074 | ug/L   |
| 14) Carbon disulfide           | 4.38  | 76  | 7974  | 2.627 | ug/L   |
| 15) Methyl Acetate             | 4.67  | 43  | 1575  | 2.486 | ug/L # |
| 16) Methylene chloride         | 4.91  | 84  | 4073m | 2.848 | ug/L   |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 4910  | 2.905 | ug/L # |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 2844m | 2.550 | ug/L   |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 4817  | 2.534 | ug/L   |
| 21) 2-Butanone                 | 7.17  | 43  | 2617  | 5.762 | ug/L   |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 3210  | 2.616 | ug/L   |
| 23) Bromochloromethane         | 7.51  | 128 | 1459  | 2.608 | ug/L   |
| 25) Chloroform                 | 7.67  | 83  | 5299  | 2.576 | ug/L   |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 3948  | 2.685 | ug/L   |
| 30) Cyclohexane                | 7.96  | 56  | 4388  | 2.263 | ug/L   |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 5023  | 2.640 | ug/L   |
| 32) Carbon tetrachloride       | 8.07  | 117 | 4777  | 2.599 | ug/L   |
| 34) Benzene                    | 8.32  | 78  | 11178 | 2.413 | ug/L   |
| 35) Trichloroethene            | 9.09  | 95  | 3337  | 2.512 | ug/L   |
| 36) Methylcyclohexane          | 9.34  | 83  | 5546  | 2.418 | ug/L   |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 2661  | 2.348 | ug/L # |
| 41) Bromodichloromethane       | 9.64  | 83  | 3710  | 2.280 | ug/L   |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 4482  | 2.355 | ug/L   |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 4820  | 5.373 | ug/L   |

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 ALS Vial : 1 Sample Multiplier: 1

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Quant Time: Dec 26 12:36:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 26 10:32:54 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 44) Toluene                     | 10.39 | 91   | 12653    | 2.534 | ug/L   | 98       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 4162     | 2.490 | ug/L   | 95       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 2230     | 2.390 | ug/L   | 94       |
| 47) Tetrachloroethene           | 10.86 | 164  | 2564     | 2.555 | ug/L   | 95       |
| 49) 2-Hexanone                  | 10.98 | 43   | 3233     | 5.128 | ug/L # | 97       |
| 50) Dibromochloromethane        | 11.13 | 129  | 2800     | 2.442 | ug/L   | 91       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 2233     | 2.383 | ug/L # | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 8305     | 2.563 | ug/L   | 95       |
| 53) Ethylbenzene                | 11.73 | 91   | 14142    | 2.519 | ug/L   | 100      |
| 54) m,p-Xylene                  | 11.84 | 106  | 5378     | 2.521 | ug/L   | 88       |
| 55) o-xylene                    | 12.17 | 106  | 5097     | 2.529 | ug/L   | 97       |
| 56) Styrene                     | 12.18 | 104  | 8414     | 2.435 | ug/L   | 100      |
| 57) Isopropylbenzene            | 12.47 | 105  | 14409    | 2.561 | ug/L   | 97       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 3031     | 2.620 | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 2321     | 2.535 | ug/L   | 92       |
| 62) Bromoform                   | 12.35 | 173  | 1627     | 2.394 | ug/L # | 96       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 6788     | 2.662 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 6731     | 2.648 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 13.88 | 146  | 6390     | 2.800 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 599m     | 2.478 | ug/L   |          |
| 67) 1,3,5-Trichlorobenzene      | 14.64 | 180  | 4969     | 2.690 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.14 | 180  | 4326     | 2.717 | ug/L   | 94       |
| 69) Naphthalene                 | 15.37 | 128  | 9668     | 2.456 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 3845     | 2.656 | ug/L   | 96       |
| -----                           |       |      |          |       |        |          |

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

