

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092619\  
 Data File : VW013299.D  
 Acq On : 26 Sep 2019 10:27  
 Operator : SY/VA  
 Sample : VSTD00502  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00502

Manual Integrations  
 APPROVED

MMDadoda  
 10/9/2019 2:12:56 PM

Quant Time: Sep 26 11:43:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092619S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 26 11:15:22 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 484040   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 435122   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 216919   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 30306  | 6.23  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 24805  | 6.19  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 57950  | 4.98  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 19979  | 10.98 | ug/L | 0.01 |
| 24) Chloroform-d               | 7.65  | 84  | 57392  | 4.69  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 30899  | 4.73  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 124899 | 5.63  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 36245  | 4.95  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 115702 | 5.47  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 15896  | 4.92  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 15420  | 11.15 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 31879  | 5.76  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 40593  | 4.91  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |        | Qvalue    |
|--------------------------------|-------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 9848   | 2.636  | ug/L 95   |
| 3) Chloromethane               | 2.21  | 50  | 19207  | 3.767  | ug/L 91   |
| 5) Vinyl chloride              | 2.35  | 62  | 26222  | 3.983  | ug/L 97   |
| 6) Bromomethane                | 2.78  | 94  | 17169  | 4.366  | ug/L 96   |
| 8) Chloroethane                | 2.92  | 64  | 15920  | 4.010  | ug/L 98   |
| 9) Trichlorofluoromethane      | 3.25  | 101 | 14621  | 3.704  | ug/L 98   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 25623  | 4.433  | ug/L # 88 |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 27724  | 4.803  | ug/L 98   |
| 13) Acetone                    | 4.14  | 43  | 15462  | 9.857  | ug/L 98   |
| 14) Carbon disulfide           | 4.39  | 76  | 72381  | 4.194  | ug/L 97   |
| 15) Methyl Acetate             | 4.67  | 43  | 16083m | 5.490  | ug/L      |
| 16) Methylene chloride         | 4.92  | 84  | 33480m | 5.066  | ug/L      |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 47332  | 4.713  | ug/L 96   |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 29305  | 4.734  | ug/L 97   |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 52261  | 4.455  | ug/L 99   |
| 21) 2-Butanone                 | 7.18  | 43  | 22758  | 11.012 | ug/L 76   |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 31977  | 4.869  | ug/L 98   |
| 23) Bromochloromethane         | 7.51  | 128 | 14238  | 5.004  | ug/L 86   |
| 25) Chloroform                 | 7.68  | 83  | 50522  | 4.277  | ug/L 98   |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 33438  | 4.189  | ug/L # 94 |
| 30) Cyclohexane                | 7.96  | 56  | 48535  | 4.185  | ug/L 99   |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 40578  | 4.091  | ug/L 99   |
| 32) Carbon tetrachloride       | 8.07  | 117 | 38013  | 4.105  | ug/L 99   |
| 34) Benzene                    | 8.32  | 78  | 119678 | 4.574  | ug/L 100  |
| 35) Trichloroethene            | 9.09  | 95  | 30942  | 4.481  | ug/L 97   |
| 36) Methylcyclohexane          | 9.34  | 83  | 55850  | 4.677  | ug/L 99   |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 28998  | 4.406  | ug/L 99   |
| 41) Bromodichloromethane       | 9.64  | 83  | 35484  | 4.232  | ug/L 98   |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 44504  | 4.304  | ug/L 91   |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 43355  | 10.355 | ug/L 99   |

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 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 26 11:15:22 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| -----                           |       |      |          |       |       |          |
| 44) Toluene                     | 10.39 | 91   | 130877   | 4.675 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 35598    | 4.247 | ug/L  | 92       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 23111    | 5.222 | ug/L  | 93       |
| 47) Tetrachloroethene           | 10.86 | 164  | 28077    | 4.722 | ug/L  | 92       |
| 49) 2-Hexanone                  | 10.97 | 43   | 30538    | 9.867 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 24955    | 4.630 | ug/L  | 88       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 22973    | 5.396 | ug/L  | 95       |
| 52) Chlorobenzene               | 11.66 | 112  | 83396    | 4.767 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 143909   | 4.529 | ug/L  | 96       |
| 54) m,p-Xylene                  | 11.84 | 106  | 56288    | 4.738 | ug/L  | 96       |
| 55) o-xylene                    | 12.16 | 106  | 51484    | 4.607 | ug/L  | 96       |
| 56) Styrene                     | 12.18 | 104  | 88494    | 4.653 | ug/L  | 96       |
| 57) Isopropylbenzene            | 12.46 | 105  | 139935   | 4.559 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 28464    | 5.654 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 21405    | 5.518 | ug/L  | 97       |
| 62) Bromoform                   | 12.35 | 173  | 16221    | 5.233 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 65036    | 4.733 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 67956    | 4.957 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 59435    | 4.823 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 4817     | 5.641 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 50634    | 4.791 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 37781    | 4.509 | ug/L  | 100      |
| 69) Naphthalene                 | 15.37 | 128  | 66845    | 4.926 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 34732    | 4.698 | ug/L  | 99       |
| -----                           |       |      |          |       |       |          |

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

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