

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011521\  
 Data File : VW017893.D  
 Acq On : 15 Jan 2021 12:37  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jan 18 02:05:59 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jan 18 01:59:51 2021  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 315000   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 290533   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 143968   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 112243   | 23.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.12%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 103909   | 25.83    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 103.32% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 214106   | 25.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 100.84% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 44750m   | 56.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 113.30% |
| 24) Chloroform-d               | 7.65   | 84    | 229766   | 27.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 111.64% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 118713   | 27.86    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 111.44% |
| 29) Benzene-d6                 | 8.27   | 84    | 427640   | 26.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 104.52% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 121604   | 26.96    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 107.84% |
| 37) Toluene-d8                 | 10.32  | 98    | 402545   | 25.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 102.44% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 49158    | 24.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 97.80%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 30503    | 53.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 107.68% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 94974    | 28.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 113.44% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 127974   | 25.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 102.12% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 67053  | 19.280 | ug/L 99   |
| 3) Chloromethane               | 2.21 | 50  | 73672  | 23.832 | ug/L 97   |
| 5) Vinyl chloride              | 2.37 | 62  | 127984 | 24.472 | ug/L 98   |
| 6) Bromomethane                | 2.78 | 94  | 95671  | 24.670 | ug/L 100  |
| 8) Chloroethane                | 2.92 | 64  | 85323  | 26.022 | ug/L 99   |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 97167  | 22.646 | ug/L 99   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 104487 | 26.092 | ug/L # 72 |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 96277  | 24.800 | ug/L 92   |
| 13) Acetone                    | 4.13 | 43  | 28851  | 42.295 | ug/L 93   |
| 14) Carbon disulfide           | 4.39 | 76  | 256683 | 22.143 | ug/L 99   |
| 15) Methyl Acetate             | 4.67 | 43  | 35148  | 26.585 | ug/L 95   |
| 16) Methylene chloride         | 4.91 | 84  | 104862 | 23.279 | ug/L 88   |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 118587 | 24.103 | ug/L 96   |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 103727 | 24.772 | ug/L 95   |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 194376 | 27.170 | ug/L 100  |
| 21) 2-Butanone                 | 7.17 | 43  | 46707  | 50.905 | ug/L 97   |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 109745 | 24.942 | ug/L 92   |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 7.51  | 128  | 46937    | 25.182 | ug/L # | 80       |
| 25) Chloroform                  | 7.67  | 83   | 204019   | 27.103 | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 133123   | 27.339 | ug/L # | 94       |
| 30) Cyclohexane                 | 7.95  | 56   | 171024   | 24.731 | ug/L   | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 167607   | 25.079 | ug/L   | 95       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 160287   | 25.422 | ug/L   | 97       |
| 34) Benzene                     | 8.32  | 78   | 433937   | 26.122 | ug/L   | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 118231   | 25.713 | ug/L   | 92       |
| 36) Methylcyclohexane           | 9.34  | 83   | 201560   | 25.076 | ug/L   | 97       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 104984   | 26.771 | ug/L   | 98       |
| 41) Bromodichloromethane        | 9.64  | 83   | 143243   | 26.684 | ug/L # | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 162457   | 25.960 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 99798    | 52.381 | ug/L   | 95       |
| 44) Toluene                     | 10.38 | 91   | 485669   | 25.639 | ug/L   | 96       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 135952   | 25.512 | ug/L   | 96       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 73887    | 25.348 | ug/L   | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 88867    | 24.720 | ug/L   | 96       |
| 49) 2-Hexanone                  | 10.97 | 43   | 66163    | 48.946 | ug/L   | 93       |
| 50) Dibromochloromethane        | 11.13 | 129  | 86944    | 25.124 | ug/L   | 98       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 69487    | 25.180 | ug/L # | 99       |
| 52) Chlorobenzene               | 11.65 | 112  | 300098   | 25.378 | ug/L   | 95       |
| 53) Ethylbenzene                | 11.73 | 91   | 562697   | 26.181 | ug/L   | 100      |
| 54) m,p-Xylene                  | 11.84 | 106  | 209796   | 24.953 | ug/L   | 97       |
| 55) o-xylene                    | 12.16 | 106  | 195457   | 24.720 | ug/L   | 96       |
| 56) Styrene                     | 12.18 | 104  | 337141   | 25.634 | ug/L   | 94       |
| 57) Isopropylbenzene            | 12.46 | 105  | 568499   | 25.970 | ug/L   | 97       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 85807    | 26.374 | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 62684    | 26.210 | ug/L   | 98       |
| 62) Bromoform                   | 12.35 | 173  | 42221    | 23.968 | ug/L   | 97       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 227027   | 25.549 | ug/L   | 94       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 219068   | 24.532 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 196660   | 25.187 | ug/L   | 94       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 12609    | 24.519 | ug/L # | 73       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 161933   | 26.582 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 126126   | 25.154 | ug/L   | 94       |
| 69) Naphthalene                 | 15.36 | 128  | 223154   | 23.370 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 101620   | 24.000 | ug/L   | 93       |
| -----                           |       |      |          |        |        |          |

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

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