

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112420\  
 Data File : VW017491.D  
 Acq On : 24 Nov 2020 22:36  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02521

Quant Time: Nov 25 01:50:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 25 01:45:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 523633   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 465729   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 232397   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 161943   | 23.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.04%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 134331   | 23.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.44%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 368585   | 24.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 96.12%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 72392    | 49.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 99.68%  |
| 24) Chloroform-d               | 7.65   | 84    | 372554   | 25.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 100.16% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 193418   | 26.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 106.00% |
| 29) Benzene-d6                 | 8.27   | 84    | 702231   | 24.52    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 98.08%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 199157   | 25.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.52% |
| 37) Toluene-d8                 | 10.32  | 98    | 652507   | 25.02    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.08% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 90316    | 25.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 102.00% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 53109    | 54.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 108.30% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 137899   | 24.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 96.72%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 217313   | 25.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.04% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 87045  | 17.494 | ug/L 97   |
| 3) Chloromethane               | 2.21 | 50  | 110324 | 21.536 | ug/L 97   |
| 5) Vinyl chloride              | 2.36 | 62  | 152519 | 24.008 | ug/L 100  |
| 6) Bromomethane                | 2.78 | 94  | 110237 | 24.097 | ug/L 99   |
| 8) Chloroethane                | 2.92 | 64  | 103468 | 24.241 | ug/L 99   |
| 9) Trichlorofluoromethane      | 3.27 | 101 | 153553 | 21.108 | ug/L 99   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 169213 | 22.725 | ug/L # 69 |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 162152 | 22.333 | ug/L 80   |
| 13) Acetone                    | 4.12 | 43  | 49225  | 35.216 | ug/L 85   |
| 14) Carbon disulfide           | 4.39 | 76  | 474751 | 22.860 | ug/L 99   |
| 15) Methyl Acetate             | 4.67 | 43  | 61128  | 25.124 | ug/L 95   |
| 16) Methylene chloride         | 4.92 | 84  | 171921 | 21.868 | ug/L 95   |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 215449 | 27.588 | ug/L 98   |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 175426 | 23.504 | ug/L 98   |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 320611 | 25.442 | ug/L 98   |
| 21) 2-Butanone                 | 7.17 | 43  | 76905  | 45.976 | ug/L 98   |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 188645 | 24.224 | ug/L 93   |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 81771    | 23.116 | ug/L   | 91       |
| 25) Chloroform                 | 7.68  | 83   | 338180   | 25.420 | ug/L   | 100      |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 216068   | 26.968 | ug/L   | 96       |
| 30) Cyclohexane                | 7.96  | 56   | 276856   | 24.922 | ug/L   | 98       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 290171   | 26.325 | ug/L   | 98       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 272725   | 25.481 | ug/L   | 99       |
| 34) Benzene                    | 8.32  | 78   | 711143   | 25.405 | ug/L   | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 191665   | 24.699 | ug/L   | 96       |
| 36) Methylcyclohexane          | 9.34  | 83   | 312930   | 24.385 | ug/L   | 97       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 169231   | 25.739 | ug/L   | 99       |
| 41) Bromodichloromethane       | 9.65  | 83   | 233903   | 25.748 | ug/L   | 98       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 269517   | 26.465 | ug/L   | 97       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 167071   | 55.195 | ug/L   | 97       |
| 44) Toluene                    | 10.39 | 91   | 778377   | 25.841 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 232077   | 26.593 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 123740   | 25.118 | ug/L   | 99       |
| 47) Tetrachloroethene          | 10.87 | 164  | 155034   | 23.448 | ug/L   | 98       |
| 49) 2-Hexanone                 | 10.97 | 43   | 112780   | 52.758 | ug/L # | 88       |
| 50) Dibromochloromethane       | 11.13 | 129  | 154677   | 25.135 | ug/L   | 93       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 117152   | 24.813 | ug/L # | 99       |
| 52) Chlorobenzene              | 11.66 | 112  | 491278   | 24.907 | ug/L   | 93       |
| 53) Ethylbenzene               | 11.73 | 91   | 893946   | 26.175 | ug/L   | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 332176   | 25.492 | ug/L   | 90       |
| 55) o-xylene                   | 12.16 | 106  | 312979   | 25.788 | ug/L   | 92       |
| 56) Styrene                    | 12.18 | 104  | 532947   | 26.104 | ug/L   | 99       |
| 57) Isopropylbenzene           | 12.46 | 105  | 867553   | 26.025 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 132276   | 24.946 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 98125    | 25.072 | ug/L   | 99       |
| 62) Bromoform                  | 12.35 | 173  | 81887    | 24.856 | ug/L   | 100      |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 374873   | 25.016 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 368608   | 24.830 | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 334351   | 25.617 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 20945    | 24.924 | ug/L   | 98       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 248487   | 23.148 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 207870   | 23.953 | ug/L   | 95       |
| 69) Naphthalene                | 15.36 | 128  | 342832   | 25.585 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 170798   | 23.595 | ug/L   | 99       |

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

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