

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121420\  
 Data File : VV019595.D  
 Acq On : 14 Dec 2020 10:36  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05087

Manual Integrations  
 APPROVED

MMDadoda  
 12/16/2020 12:36:08 PM

Quant Time: Dec 15 07:19:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 14 14:17:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 719949   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.85  | 117  | 669388   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.25 | 152  | 328171   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 205963   | 39.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.80%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 180882   | 44.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.84%  |
| 11) 1,1-Dichloroethene-d2      | 2.11    | 63    | 417135   | 43.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.06%  |
| 21) 2-Butanone-d5              | 3.89    | 46    | 296942   | 105.82   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.82% |
| 24) Chloroform-d               | 4.35    | 84    | 427277   | 45.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.84%  |
| 26) 1,2-Dichloroethane-d4      | 5.03    | 65    | 281643   | 46.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.64%  |
| 32) Benzene-d6                 | 5.05    | 84    | 804027   | 45.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.08%  |
| 36) 1,2-Dichloropropane-d6     | 6.07    | 67    | 262667   | 46.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.94%  |
| 41) Toluene-d8                 | 7.32    | 98    | 714147   | 44.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.86%  |
| 43) trans-1,3-Dichloropropene- | 7.62    | 79    | 139841   | 43.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.92%  |
| 47) 2-Hexanone-d5              | 8.09    | 63    | 221342   | 100.84   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.84% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22   | 84    | 360656   | 47.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.36%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.63   | 152   | 273511   | 44.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.18%  |

## Target Compounds

|                                |      |     |         |         | Ovalue    |
|--------------------------------|------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane     | 1.13 | 85  | 260434  | 44.824  | ug/L 99   |
| 3) Chloromethane               | 1.24 | 50  | 274771  | 44.492  | ug/L 100  |
| 5) Vinyl chloride              | 1.31 | 62  | 277965  | 44.872  | ug/L 98   |
| 6) Bromomethane                | 1.52 | 94  | 168460  | 45.283  | ug/L 99   |
| 8) Chloroethane                | 1.59 | 64  | 171366  | 45.863  | ug/L 100  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 349814  | 46.221  | ug/L 100  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101 | 201446  | 48.197  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 2.12 | 96  | 196987m | 45.928  | ug/L      |
| 13) Acetone                    | 2.19 | 43  | 223801  | 93.621  | ug/L 99   |
| 14) Carbon disulfide           | 2.30 | 76  | 616401  | 43.739  | ug/L 99   |
| 15) Methyl Acetate             | 2.43 | 43  | 250709  | 48.137  | ug/L 100  |
| 16) Methylene chloride         | 2.51 | 84  | 227284  | 45.197  | ug/L 98   |
| 17) trans-1,2-Dichloroethene   | 2.76 | 96  | 214259  | 45.576  | ug/L 99   |
| 18) Methyl tert-butyl Ether    | 2.77 | 73  | 744309  | 45.310  | ug/L 100  |
| 19) 1,1-Dichloroethane         | 3.19 | 63  | 417313  | 45.788  | ug/L 99   |
| 20) cis-1,2-Dichloroethene     | 3.91 | 96  | 232821  | 45.052  | ug/L # 96 |
| 22) 2-Butanone                 | 3.97 | 43  | 362336  | 103.331 | ug/L 96   |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.25  | 128  | 114822   | 45.157 | uq/L  | 97       |
| 25) Chloroform                  | 4.38  | 83   | 415626   | 45.661 | uq/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.13  | 62   | 344749   | 45.717 | uq/L  | 99       |
| 29) Cyclohexane                 | 4.68  | 56   | 378188   | 46.098 | uq/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.61  | 97   | 376185   | 44.820 | uq/L  | 99       |
| 31) Carbon tetrachloride        | 4.83  | 117  | 317890   | 44.865 | uq/L  | 100      |
| 33) Benzene                     | 5.10  | 78   | 888970   | 45.441 | uq/L  | 100      |
| 34) Trichloroethene             | 5.91  | 95   | 234704   | 45.416 | uq/L  | 98       |
| 35) Methylcyclohexane           | 6.13  | 83   | 380429   | 48.456 | uq/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.17  | 63   | 234947   | 45.987 | uq/L  | 99       |
| 38) Bromodichloromethane        | 6.51  | 83   | 317914   | 44.500 | uq/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.03  | 75   | 384934   | 45.365 | uq/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.23  | 43   | 695589   | 94.371 | uq/L  | 99       |
| 42) Toluene                     | 7.39  | 91   | 939491   | 45.564 | uq/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.65  | 75   | 383010   | 44.579 | uq/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.84  | 97   | 218149   | 44.964 | uq/L  | 100      |
| 46) Tetrachloroethene           | 7.97  | 164  | 165186   | 46.194 | uq/L  | 99       |
| 48) 2-Hexanone                  | 8.14  | 43   | 530941   | 94.933 | uq/L  | 99       |
| 49) Dibromochloromethane        | 8.25  | 129  | 238590   | 44.906 | uq/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.35  | 107  | 231822   | 45.375 | uq/L  | 97       |
| 51) Chlorobenzene               | 8.88  | 112  | 590968   | 44.875 | uq/L  | 100      |
| 52) Ethylbenzene                | 9.01  | 91   | 1072542  | 45.655 | uq/L  | 99       |
| 53) m,p-Xylene                  | 9.14  | 106  | 393332   | 44.816 | uq/L  | 100      |
| 54) o-xylene                    | 9.54  | 106  | 386675   | 44.949 | uq/L  | 99       |
| 55) Styrene                     | 9.56  | 104  | 677215   | 45.168 | uq/L  | 98       |
| 56) Isopropylbenzene            | 9.93  | 105  | 1052563  | 45.928 | uq/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.24 | 83   | 357016   | 45.759 | uq/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.28 | 75   | 293965   | 46.259 | uq/L  | 100      |
| 61) Bromoform                   | 9.73  | 173  | 159778   | 44.002 | uq/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.18 | 146  | 450399   | 44.733 | uq/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.28 | 146  | 456454   | 44.769 | uq/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.65 | 146  | 450665   | 45.297 | uq/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.43 | 75   | 92430    | 44.506 | uq/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.65 | 180  | 333187   | 46.837 | uq/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.26 | 180  | 303056   | 45.563 | uq/L  | 100      |
| 69) Naphthalene                 | 13.50 | 128  | 1048774  | 45.410 | uq/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.75 | 180  | 297185   | 45.721 | uq/L  | 99       |

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

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