

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121020\  
 Data File : VV019506.D  
 Acq On : 10 Dec 2020 11:40  
 Operator : SY/MD  
 Sample : VSTD00566  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

Manual Integrations  
 APPROVED

MMDadoda  
 12/14/2020 9:11:32 AM

Quant Time: Dec 10 14:43:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 10 14:37:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 744232   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 684851   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.25 | 152  | 328149   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.31  | 65  | 25233 | 6.09  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.57  | 69  | 19522 | 4.59  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.11  | 63  | 46555 | 4.77  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.91  | 46  | 22449 | 7.25  | ug/L | 0.02 |
| 24) Chloroform-d               | 4.35  | 84  | 45020 | 4.72  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.04  | 65  | 28271 | 4.45  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.06  | 84  | 84395 | 4.96  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.08  | 67  | 26033 | 4.52  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.32  | 98  | 77478 | 5.29  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.63  | 79  | 15053 | 5.38  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.10  | 63  | 19123 | 11.14 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22 | 84  | 35663 | 5.17  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.63 | 152 | 29451 | 5.48  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.13 | 85  | 28506  | 7.521 ug/L   | 100    |
| 3) Chloromethane               | 1.24 | 50  | 30504  | 7.348 ug/L   | 95     |
| 5) Vinyl chloride              | 1.31 | 62  | 30464  | 6.428 ug/L   | 95     |
| 6) Bromomethane                | 1.52 | 94  | 17899  | 4.404 ug/L   | 100    |
| 8) Chloroethane                | 1.59 | 64  | 18338  | 5.233 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 37380  | 5.095 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101 | 20212  | 4.777 ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 2.12 | 96  | 21049  | 5.155 ug/L # | 85     |
| 13) Acetone                    | 2.19 | 43  | 25005  | 6.454 ug/L   | 99     |
| 14) Carbon disulfide           | 2.30 | 76  | 69558  | 5.959 ug/L   | 99     |
| 15) Methyl Acetate             | 2.44 | 43  | 23385  | 3.628 ug/L   | 97     |
| 16) Methylene chloride         | 2.51 | 84  | 26110  | 4.787 ug/L   | 98     |
| 17) trans-1,2-Dichloroethene   | 2.77 | 96  | 22415  | 4.890 ug/L   | 97     |
| 18) Methyl tert-butyl Ether    | 2.77 | 73  | 79704  | 4.780 ug/L   | 100    |
| 19) 1,1-Dichloroethane         | 3.20 | 63  | 45143  | 4.363 ug/L   | 99     |
| 20) cis-1,2-Dichloroethene     | 3.92 | 96  | 24637  | 4.672 ug/L # | 97     |
| 22) 2-Butanone                 | 4.00 | 43  | 28087  | 5.800 ug/L   | 100    |
| 23) Bromochloromethane         | 4.26 | 128 | 12272m | 4.719 ug/L   |        |
| 25) Chloroform                 | 4.38 | 83  | 44494  | 4.344 ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 5.14 | 62  | 36927  | 4.421 ug/L   | 99     |
| 29) Cyclohexane                | 4.68 | 56  | 39070  | 5.392 ug/L   | 97     |
| 30) 1,1,1-Trichloroethane      | 4.61 | 97  | 41537  | 5.011 ug/L   | 99     |
| 31) Carbon tetrachloride       | 4.83 | 117 | 34142  | 5.001 ug/L   | 99     |
| 33) Benzene                    | 5.10 | 78  | 96584  | 4.967 ug/L   | 100    |
| 34) Trichloroethene            | 5.92 | 95  | 25755  | 4.738 ug/L   | 98     |
| 35) Methylcyclohexane          | 6.14 | 83  | 37827  | 5.616 ug/L   | 99     |
| 37) 1,2-Dichloropropane        | 6.18 | 63  | 24189  | 4.286 ug/L   | 99     |
| 38) Bromodichloromethane       | 6.51 | 83  | 35033  | 4.744 ug/L   | 98     |
| 39) cis-1,3-Dichloropropene    | 7.03 | 75  | 38926  | 4.763 ug/L   | 97     |
| 40) 4-Methyl-2-pentanone       | 7.23 | 43  | 67476  | 8.155 ug/L   | 99     |

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

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 APPROVED

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 12/14/2020 9:11:32 AM

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 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 10 14:37:28 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) Toluene                    | 7.39  | 91   | 100515   | 5.100 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.66  | 75   | 41588    | 5.024 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.85  | 97   | 24183    | 4.725 | ug/L  | 97       |
| 46) Tetrachloroethene          | 7.98  | 164  | 17543    | 5.229 | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.15  | 43   | 51989    | 7.909 | ug/L  | 96       |
| 49) Dibromochloromethane       | 8.25  | 129  | 24751    | 4.617 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.36  | 107  | 24087    | 4.690 | ug/L  | 99       |
| 51) Chlorobenzene              | 8.89  | 112  | 63621    | 4.943 | ug/L  | 97       |
| 52) Ethylbenzene               | 9.02  | 91   | 113321   | 5.224 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.14  | 106  | 42075    | 5.400 | ug/L  | 97       |
| 54) o-xylene                   | 9.55  | 106  | 40896    | 5.421 | ug/L  | 98       |
| 55) Styrene                    | 9.57  | 104  | 70596    | 5.285 | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.94  | 105  | 110272   | 5.399 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.25 | 83   | 38440    | 4.924 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.28 | 75   | 30798    | 4.394 | ug/L  | 100      |
| 61) Bromoform                  | 9.74  | 173  | 15961    | 4.366 | ug/L  | 95       |
| 62) 1,3-Dichlorobenzene        | 11.19 | 146  | 47971    | 5.045 | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.28 | 146  | 49029    | 4.930 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.65 | 146  | 46544    | 4.796 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.43 | 75   | 9160     | 4.703 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.65 | 180  | 33412    | 4.718 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.27 | 180  | 30119    | 4.802 | ug/L  | 96       |
| 69) Naphthalene                | 13.51 | 128  | 96949    | 5.459 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.75 | 180  | 29406    | 4.594 | ug/L  | 98       |

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

