

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072020\  
 Data File : VV017538.D  
 Acq On : 20 Jul 2020 12:10  
 Operator : SY/MD  
 Sample : VSTD01066  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01066

Manual Integrations  
 APPROVED

MMDadoda  
 7/22/2020 11:03:35 AM

Quant Time: Jul 20 17:58:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM072020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jul 20 17:41:43 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 307411   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 283835   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 140261   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 16402  | 10.10 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 13585  | 11.53 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 40204  | 10.95 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.92  | 46  | 22807m | 20.62 | ug/L | 0.02 |
| 24) Chloroform-d               | 4.38  | 84  | 38490  | 10.40 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.06  | 65  | 25438  | 10.01 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.08  | 84  | 63995  | 10.55 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.10  | 67  | 19334  | 11.03 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.34  | 98  | 58381  | 10.02 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.65  | 79  | 11026  | 10.65 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.11  | 63  | 16111  | 21.56 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24 | 84  | 24589  | 9.83  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.65 | 152 | 24377  | 10.43 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 27763  | 8.604 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 23442  | 10.207 ug/L  | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 24136  | 10.167 ug/L  | 98     |
| 6) Bromomethane                | 1.53 | 94  | 15776  | 12.300 ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64  | 13640  | 10.879 ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 42370  | 9.654 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 22743  | 10.943 ug/L  | 97     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 20181  | 10.751 ug/L  | 96     |
| 13) Acetone                    | 2.19 | 43  | 27827  | 18.877 ug/L  | 94     |
| 14) Carbon disulfide           | 2.31 | 76  | 52392  | 9.496 ug/L   | 99     |
| 15) Methyl Acetate             | 2.45 | 43  | 19530  | 9.943 ug/L   | 99     |
| 16) Methylene chloride         | 2.52 | 84  | 22707  | 10.637 ug/L  | 97     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 19735  | 10.028 ug/L  | 93     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 68139  | 10.102 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 37159  | 10.144 ug/L  | 96     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 21490  | 10.055 ug/L  | 94     |
| 22) 2-Butanone                 | 4.01 | 43  | 26795m | 18.841 ug/L  |        |
| 23) Bromochloromethane         | 4.28 | 128 | 12258  | 10.267 ug/L  | 92     |
| 25) Chloroform                 | 4.41 | 83  | 40646  | 9.848 ug/L   | 97     |
| 27) 1,2-Dichloroethane         | 5.16 | 62  | 33901  | 9.393 ug/L   | 97     |
| 29) Cyclohexane                | 4.70 | 56  | 27909  | 9.627 ug/L # | 97     |
| 30) 1,1,1-Trichloroethane      | 4.63 | 97  | 39183  | 10.118 ug/L  | 95     |
| 31) Carbon tetrachloride       | 4.86 | 117 | 36030  | 10.192 ug/L  | 98     |
| 33) Benzene                    | 5.13 | 78  | 79059  | 10.654 ug/L  | 100    |
| 34) Trichloroethene            | 5.94 | 95  | 21612  | 9.888 ug/L   | 97     |
| 35) Methylcyclohexane          | 6.16 | 83  | 30527  | 9.556 ug/L   | 98     |
| 37) 1,2-Dichloropropane        | 6.20 | 63  | 19371  | 10.642 ug/L  | 100    |
| 38) Bromodichloromethane       | 6.53 | 83  | 30338  | 10.147 ug/L  | 98     |
| 39) cis-1,3-Dichloropropene    | 7.05 | 75  | 31260  | 9.978 ug/L   | 96     |
| 40) 4-Methyl-2-pentanone       | 7.25 | 43  | 52600  | 20.724 ug/L  | 96     |

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 ALS Vial : 4 Sample Multiplier: 1

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 7/22/2020 11:03:35 AM

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 Quant Title : VOC Analysis  
 QLast Update : Mon Jul 20 17:41:43 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.41  | 91   | 82866    | 10.008 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.68  | 75   | 32791    | 10.118 | ug/L  | 96       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 21155    | 10.609 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.00  | 164  | 17577    | 9.475  | ug/L  | 94       |
| 48) 2-Hexanone                 | 8.16  | 43   | 38938    | 18.959 | ug/L  | 95       |
| 49) Dibromochloromethane       | 8.27  | 129  | 24969    | 9.975  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.38  | 107  | 21871    | 9.988  | ug/L  | 97       |
| 51) Chlorobenzene              | 8.90  | 112  | 55852    | 9.869  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.03  | 91   | 90062    | 9.470  | ug/L  | 97       |
| 53) m,p-Xylene                 | 9.16  | 106  | 32396    | 9.115  | ug/L  | 99       |
| 54) o-xylene                   | 9.57  | 106  | 31563    | 9.173  | ug/L  | 99       |
| 55) Styrene                    | 9.58  | 104  | 54153    | 9.050  | ug/L  | 96       |
| 56) Isopropylbenzene           | 9.95  | 105  | 86233    | 9.017  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 28934    | 9.794  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.30 | 75   | 25137    | 9.840  | ug/L  | 95       |
| 61) Bromoform                  | 9.75  | 173  | 17587    | 10.330 | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 43963    | 10.107 | ug/L  | 96       |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146  | 44115    | 9.944  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 45634    | 10.468 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 9124     | 12.592 | ug/L  | 87       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 34284    | 10.347 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 29651    | 10.163 | ug/L  | 99       |
| 69) Naphthalene                | 13.53 | 128  | 79081    | 9.737  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 29422    | 9.973  | ug/L  | 97       |

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

