

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082019\  
 Data File : VU033843.D  
 Acq On : 20 Aug 2019 10:26  
 Operator : JC/SP  
 Sample : VSTD00106  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00106

Manual Integrations  
 APPROVED

MMDadoda  
 8/21/2019 9:57:13 AM

Quant Time: Aug 21 05:18:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR082019WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 21 05:04:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 168434   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 176767   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 85714    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 15040 | 1.05 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.67  | 69  | 13145 | 1.03 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.26  | 63  | 29713 | 1.03 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.18  | 46  | 27591 | 9.70 | ug/L | 0.01 |
| 24) Chloroform-d               | 4.63  | 84  | 24943 | 1.04 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.29  | 65  | 13485 | 1.04 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.32  | 84  | 43045 | 0.97 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.31  | 67  | 14593 | 1.01 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.55  | 98  | 37502 | 0.91 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.84  | 79  | 5429  | 0.98 | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.31  | 63  | 14775 | 7.47 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41 | 84  | 12512 | 1.01 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 15404 | 1.04 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |        | Qvalue   |
|--------------------------------|------|-----|-------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 15229 | 0.998  | ug/L 94  |
| 3) Chloromethane               | 1.32 | 50  | 15176 | 1.024  | ug/L 98  |
| 5) Vinyl chloride              | 1.39 | 62  | 17221 | 1.033  | ug/L 99  |
| 6) Bromomethane                | 1.62 | 94  | 11426 | 1.046  | ug/L 98  |
| 8) Chloroethane                | 1.69 | 64  | 10220 | 1.044  | ug/L 94  |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 21873 | 1.032  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 12527 | 1.021  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 11789 | 1.012  | ug/L 95  |
| 13) Acetone                    | 2.32 | 43  | 22077 | 10.148 | ug/L 99  |
| 14) Carbon disulfide           | 2.46 | 76  | 40813 | 1.019  | ug/L 99  |
| 15) Methyl Acetate             | 2.60 | 43  | 6096  | 1.118  | ug/L 100 |
| 16) Methylene chloride         | 2.68 | 84  | 14442 | 1.056  | ug/L 94  |
| 17) Methyl tert-butyl Ether    | 2.98 | 73  | 29566 | 1.012  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 13026 | 1.015  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 19036 | 1.023  | ug/L 99  |
| 21) 2-Butanone                 | 4.26 | 43  | 21544 | 9.235  | ug/L 96  |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 10022 | 0.993  | ug/L 99  |
| 23) Bromochloromethane         | 4.53 | 128 | 4967  | 1.018  | ug/L 94  |
| 25) Chloroform                 | 4.65 | 83  | 22543 | 1.071  | ug/L 95  |
| 27) 1,2-Dichloroethane         | 5.39 | 62  | 12338 | 1.033  | ug/L 97  |
| 29) 1,1,1-Trichloroethane      | 4.89 | 97  | 16285 | 1.016  | ug/L 97  |
| 30) Cyclohexane                | 4.97 | 56  | 12075 | 0.892  | ug/L 99  |
| 31) Carbon tetrachloride       | 5.11 | 117 | 14904 | 1.032  | ug/L 95  |
| 33) Benzene                    | 5.37 | 78  | 37461 | 0.966  | ug/L 100 |
| 34) Trichloroethene            | 6.17 | 95  | 9915  | 0.953  | ug/L 98  |
| 35) Methylcyclohexane          | 6.39 | 83  | 12922 | 0.889  | ug/L 96  |
| 37) 1,2-Dichloropropane        | 6.41 | 63  | 9986  | 0.973  | ug/L 99  |
| 38) Bromodichloromethane       | 6.74 | 83  | 13600 | 1.029  | ug/L 96  |
| 39) cis-1,3-Dichloropropene    | 7.25 | 75  | 12391 | 0.914  | ug/L 97  |
| 40) 4-Methyl-2-pentanone       | 7.45 | 43  | 47351 | 8.711  | ug/L 95  |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 42) Toluene                    | 7.62  | 91   | 34901    | 0.878 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 10482    | 0.924 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 7455     | 1.015 | ug/L   | 94       |
| 47) Tetrachloroethene          | 8.21  | 164  | 8597     | 1.007 | ug/L   | 94       |
| 48) 2-Hexanone                 | 8.35  | 43   | 31832    | 8.014 | ug/L   | 96       |
| 49) Dibromochloromethane       | 8.46  | 129  | 9358     | 1.020 | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 6903     | 0.983 | ug/L # | 95       |
| 51) Chlorobenzene              | 9.10  | 112  | 25320    | 0.964 | ug/L   | 96       |
| 52) Ethylbenzene               | 9.23  | 91   | 34991    | 0.880 | ug/L   | 96       |
| 53) m,p-Xylene                 | 9.36  | 106  | 11539    | 0.773 | ug/L   | 85       |
| 54) o-Xylene                   | 9.76  | 106  | 11624    | 0.812 | ug/L   | 100      |
| 55) Styrene                    | 9.78  | 104  | 19372    | 0.781 | ug/L   | 99       |
| 56) Isopropylbenzene           | 10.15 | 105  | 29369    | 0.793 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 8677     | 0.941 | ug/L   | 94       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 6548     | 0.974 | ug/L   | 97       |
| 61) Bromoform                  | 9.94  | 173  | 4821     | 1.018 | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 19365    | 1.017 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 19455    | 0.994 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 18855    | 1.023 | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 1434     | 1.100 | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 14079    | 0.974 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 9404     | 0.894 | ug/L   | 92       |
| 69) Naphthalene                | 13.74 | 128  | 11661m   | 0.810 | ug/L   |          |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 8377     | 0.848 | ug/L   | 96       |
| -----                          |       |      |          |       |        |          |

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

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