

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091919\  
 Data File : VW013152.D  
 Acq On : 19 Sep 2019 11:03  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/23/2019 10:46:02 AM

Quant Time: Sep 20 08:00:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 13 17:26:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 323674   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 462660   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 390204   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 199742   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 128763   | 43.07 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.14%  |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 129827   | 51.71 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.42% |      |
| 50) Toluene-d8              | 10.32  | 98  | 524003   | 53.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.68% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 181018   | 51.25 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.50% |      |

| Target Compounds              |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 55668   | 44.436  | ug/l   | 98     |
| 3) Chloromethane              | 2.21 | 50  | 75755   | 48.491  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.36 | 62  | 111789  | 48.252  | ug/l   | 98     |
| 5) Bromomethane               | 2.78 | 94  | 69036   | 48.795  | ug/l   | 97     |
| 6) Chloroethane               | 2.92 | 64  | 71134   | 50.062  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 83066   | 51.273  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 68687   | 54.297  | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101 | 135063  | 54.967  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.28 | 142 | 180037  | 58.546  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 49530   | 245.021 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 123989  | 55.496  | ug/l   | 96     |
| 13) Acrolein                  | 3.90 | 56  | 59351   | 269.876 | ug/l   | 99     |
| 14) Allyl chloride            | 4.67 | 41  | 217103  | 51.186  | ug/l   | 91     |
| 15) Acrylonitrile             | 5.37 | 53  | 177507  | 274.734 | ug/l   | 99     |
| 16) Acetone                   | 4.14 | 43  | 175601  | 272.472 | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.38 | 76  | 221704  | 49.795  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 83284   | 48.901  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 236905  | 53.718  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.92 | 84  | 139707  | 58.756  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 131906  | 55.124  | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.31 | 45  | 468357  | 53.154  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.26 | 43  | 1390502 | 263.480 | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 265197  | 52.201  | ug/l   | 97     |
| 25) 2-Butanone                | 7.17 | 43  | 239461  | 251.919 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 176738  | 55.275  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 161685  | 56.438  | ug/l   | 91     |
| 28) Bromochloromethane        | 7.51 | 49  | 109481  | 51.200  | ug/l   | 91     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 141575  | 261.400 | ug/l   | 96     |
| 30) Chloroform                | 7.67 | 83  | 265269  | 51.389  | ug/l   | 98     |
| 31) Cyclohexane               | 7.95 | 56  | 210905  | 55.796  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 214469  | 50.451  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 193561  | 52.355  | ug/l   | 96     |
| 37) Ethyl Acetate             | 7.25 | 43  | 99881   | 50.899  | ug/l # | 95     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 192552  | 50.823  | ug/l   | 97     |

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 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/23/2019 10:46:02 AM

Quant Time: Sep 20 08:00:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 13 17:26:01 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 226669   | 55.951   | ug/l   | 95       |
| 40) Benzene                    | 8.32  | 78   | 572942   | 55.513   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 60448    | 46.776   | ug/l   | 91       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 163690   | 47.312   | ug/l   | 94       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 189995   | 50.426   | ug/l   | 96       |
| 44) Trichloroethene            | 9.09  | 130  | 159319   | 56.356   | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 153023   | 55.805   | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 71277    | 54.255   | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.64  | 83   | 197432   | 53.576   | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.43  | 41   | 88224    | 49.892   | ug/l   | 91       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 25524    | 1159.473 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 501798   | 257.964  | ug/l   | 95       |
| 52) Toluene                    | 10.38 | 92   | 375296   | 57.224   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 201052   | 54.249   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 236003   | 55.654   | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 114829   | 57.376   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 154425   | 57.325   | ug/l   | 90       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 198101   | 55.800   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 404426   | 279.866  | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.97 | 43   | 358798   | 264.898  | ug/l   | 94       |
| 60) Dibromochloromethane       | 11.13 | 129  | 136068   | 56.235   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 105940   | 58.027   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 131461   | 56.631   | ug/l   | 92       |
| 65) Chlorobenzene              | 11.66 | 112  | 408696   | 58.802   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 150016   | 56.322   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 744513   | 57.999   | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.84 | 106  | 561748   | 119.791  | ug/l   | 95       |
| 69) o-Xylene                   | 12.16 | 106  | 263119   | 59.849   | ug/l   | 95       |
| 70) Styrene                    | 12.18 | 104  | 471547   | 60.295   | ug/l   | 97       |
| 71) Bromoform                  | 12.35 | 173  | 81997    | 58.608   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 761721   | 57.534   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 180595   | 53.027   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 138516   | 59.568   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 87897m   | 50.239   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 177433   | 58.174   | ug/l   | 94       |
| 78) n-propylbenzene            | 12.80 | 91   | 878346   | 56.400   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 499189   | 55.759   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 628889   | 56.148   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 44018    | 57.073   | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 520713   | 55.126   | ug/l   | 96       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 572636   | 57.158   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 629199   | 56.849   | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 788225   | 57.747   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 728656   | 58.144   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 345744   | 57.263   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 343246   | 57.850   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 667804   | 56.504   | ug/l   | 98       |
| 90) Hexachloroethane           | 14.09 | 117  | 125034   | 55.675   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 305502   | 57.537   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 20732    | 48.708   | ug/l   | 88       |

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Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
9/23/2019 10:46:02 AM

Quant Time: Sep 20 08:00:08 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 221341   | 58.452 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 145428   | 54.251 | ug/l  | 97       |
| 95) Naphthalene            | 15.36 | 128  | 397126   | 62.766 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 198098   | 59.181 | ug/l  | 99       |

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

