

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112719\  
 Data File : VD064407.D  
 Acq On : 27 Nov 2019 21:10  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD112719

Manual Integrations  
 APPROVED

apatel  
 12/2/2019 10:56:50 AM

Quant Time: Nov 29 08:05:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 469398   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 683546   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 600639   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 296715   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 218958   | 51.53 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.06% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 217122   | 50.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.84% |      |
| 50) Toluene-d8              | 10.34  | 98  | 824592   | 50.83 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.66% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 260823   | 50.03 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.06% |      |

| Target Compounds              |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 198214  | 46.604  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50  | 259727  | 48.416  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 297409  | 48.017  | ug/l   | 99     |
| 5) Bromomethane               | 2.77 | 94  | 221113  | 48.273  | ug/l   | 98     |
| 6) Chloroethane               | 2.92 | 64  | 201411  | 48.650  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 493280  | 47.906  | ug/l   | 94     |
| 8) Diethyl Ether              | 3.71 | 74  | 106997  | 50.006  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 207933  | 47.098  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.29 | 142 | 244217  | 52.381  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.25 | 59  | 61579   | 227.688 | ug/l # | 100    |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 204046  | 48.227  | ug/l   | 96     |
| 13) Acrolein                  | 3.93 | 56  | 91308   | 247.518 | ug/l   | 98     |
| 14) Allyl chloride            | 4.71 | 41  | 324847  | 49.198  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.43 | 53  | 237773  | 254.123 | ug/l   | 98     |
| 16) Acetone                   | 4.17 | 43  | 186425  | 217.131 | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.40 | 76  | 651335  | 48.607  | ug/l   | 97     |
| 18) Methyl Acetate            | 4.72 | 43  | 121894  | 48.671  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.49 | 73  | 492508  | 50.747  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.96 | 84  | 226617  | 52.137  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 235276  | 49.161  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.37 | 45  | 653133  | 50.106  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.31 | 43  | 2019196 | 262.761 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 390509  | 49.816  | ug/l   | 97     |
| 25) 2-Butanone                | 7.23 | 43  | 299230  | 246.439 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 320007  | 46.941  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 255009  | 48.875  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.55 | 49  | 147375  | 55.011  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 197767  | 256.004 | ug/l   | 99     |
| 30) Chloroform                | 7.71 | 83  | 406309  | 50.047  | ug/l   | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 348665  | 51.040  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 365460  | 48.555  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 312448  | 48.326  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 141731  | 51.663  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 338692  | 49.634  | ug/l   | 99     |

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 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
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apatel  
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Quant Time: Nov 29 08:05:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 381059   | 47.513   | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 886359   | 49.360   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.54  | 41   | 80024    | 50.864   | ug/l # | 85       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 264906   | 50.586   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 277229   | 51.395   | ug/l   | 100      |
| 44) Trichloroethene            | 9.11  | 130  | 261204   | 48.289   | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 215132   | 50.094   | ug/l   | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 122495   | 50.537   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.67  | 83   | 316832   | 50.872   | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.46  | 41   | 130139   | 52.724   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 30959    | 1034.341 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 690298   | 258.642  | ug/l   | 99       |
| 52) Toluene                    | 10.40 | 92   | 575138   | 49.145   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 301085   | 50.726   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 354617   | 50.291   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 165819   | 49.961   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 220241   | 52.028   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 280021   | 49.563   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 387502   | 229.632  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.99 | 43   | 463942   | 250.516  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.14 | 129  | 224499   | 49.889   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 166665   | 50.294   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 226722   | 49.499   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.67 | 112  | 611169   | 48.787   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 237126   | 51.132   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 1089644  | 48.887   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 844360   | 99.353   | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 388302   | 49.472   | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 685648   | 50.269   | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 140084   | 50.489   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 1034101  | 48.458   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 256159   | 52.888   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 175230   | 49.654   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 133839m  | 54.850   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 267977   | 50.851   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 1204397  | 48.915   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 664472   | 49.045   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 856177   | 49.096   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 57498    | 51.382   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 699291   | 48.749   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 742997   | 49.007   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 854837   | 48.749   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 1002944  | 48.199   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 967195   | 49.234   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 494027   | 49.392   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 478023   | 48.408   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 864864   | 48.479   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.12 | 117  | 181585   | 49.420   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 427594   | 50.023   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 28535    | 54.510   | ug/l   | 97       |

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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
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Quant Time: Nov 29 08:05:26 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 29 07:18:03 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 319390   | 48.789 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 195880   | 48.469 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 558874   | 51.155 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 278887   | 49.908 | ug/l  | 99       |

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

