

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042419\  
 Data File : VX009137.D  
 Acq On : 24 Apr 2019 12:04  
 Operator : JC/SP  
 Sample : VX0424WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0424WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/25/2019 12:34:16 PM

Quant Time: Apr 25 05:45:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 203658   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 324911   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 284736   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 134394   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 141994   | 49.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.94%  |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 105452   | 50.57 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.14% |      |
| 50) Toluene-d8            | 8.71   | 98  | 412286   | 49.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.16%  |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 148479   | 50.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.16% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 49811  | 21.235  | ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 58706  | 20.385  | ug/l | 97     |
| 4) Vinyl Chloride             | 1.41 | 62  | 59411  | 21.196  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 34089  | 21.775  | ug/l | 98     |
| 6) Chloroethane               | 1.72 | 64  | 34884  | 21.165  | ug/l | 95     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 68518  | 20.937  | ug/l | 99     |
| 8) Diethyl Ether              | 2.18 | 74  | 31065  | 20.757  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 44570  | 21.301  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 38446  | 19.736  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.04 | 59  | 66487  | 104.361 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 44584  | 20.414  | ug/l | 97     |
| 13) Acrolein                  | 2.29 | 56  | 35027  | 63.631  | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 102385 | 21.488  | ug/l | 98     |
| 15) Acrylonitrile             | 3.14 | 53  | 169937 | 105.078 | ug/l | 99     |
| 16) Acetone                   | 2.44 | 43  | 155309 | 104.348 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.57 | 76  | 129111 | 20.866  | ug/l | 99     |
| 18) Methyl Acetate            | 2.77 | 43  | 77682  | 20.912  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 164799 | 21.177  | ug/l | 98     |
| 20) Methylene Chloride        | 2.85 | 84  | 51624  | 20.282  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 47935  | 20.577  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.85 | 45  | 204231 | 22.058  | ug/l | 94     |
| 23) Vinyl Acetate             | 3.81 | 43  | 898803 | 110.433 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 98015  | 21.089  | ug/l | 100    |
| 25) 2-Butanone                | 4.67 | 43  | 255117 | 107.234 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 71528  | 20.531  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 54867  | 20.745  | ug/l | 99     |
| 28) Bromochloromethane        | 5.01 | 49  | 39414  | 19.229  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.13 | 42  | 169267 | 106.300 | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 88977  | 21.393  | ug/l | 98     |
| 31) Cyclohexane               | 5.57 | 56  | 98428  | 21.531  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 71513  | 20.746  | ug/l | 97     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 69667  | 20.732  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.83 | 43  | 97392  | 22.524  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 60857  | 21.363  | ug/l | 93     |

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 Sample : VX0424WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0424WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/25/2019 12:34:16 PM

Quant Time: Apr 25 05:45:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 89247    | 21.814  | ug/l   | 100      |
| 40) Benzene                    | 6.14  | 78   | 212654   | 21.452  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.04  | 41   | 54948    | 22.142  | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 75253    | 21.430  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.44  | 43   | 150341   | 21.576  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 49772    | 20.492  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 60413    | 21.967  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 34169    | 21.349  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 66967    | 21.333  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 75152    | 21.828  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 26285    | 407.889 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 489303   | 110.225 | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 127530   | 21.466  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 77371    | 21.416  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 86399    | 21.358  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 51721    | 21.966  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 91487    | 21.669  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 91680    | 21.868  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 226733   | 99.725  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 371938   | 108.675 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 49351    | 21.869  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 51916    | 21.363  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.34  | 164  | 46929    | 21.695  | ug/l   | 95       |
| 65) Chlorobenzene              | 10.13 | 112  | 127656   | 21.241  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 45970    | 21.712  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 237196   | 21.590  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 171116   | 42.856  | ug/l   | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 80945    | 20.835  | ug/l   | 96       |
| 70) Styrene                    | 10.71 | 104  | 142978   | 21.237  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 35498    | 21.045  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 223127   | 21.903  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 126713   | 21.664  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 81092    | 21.787  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 71807m   | 21.881  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 53774    | 20.922  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 259000   | 22.151  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 152130   | 21.592  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 190441   | 22.278  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 26072    | 20.397  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 174057   | 21.271  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 177376   | 21.612  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 192084   | 22.075  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 216841   | 22.153  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 195443   | 21.717  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 95356    | 21.197  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 94903    | 20.811  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 181715   | 21.681  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 32833    | 22.117  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 93992    | 21.159  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 17076    | 20.150  | ug/l   | 97       |

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Operator : JC/SP  
Sample : VX0424WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0424WBS01

Manual Integrations  
APPROVED

MMDadoda  
4/25/2019 12:34:16 PM

Quant Time: Apr 25 05:45:30 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 17 06:47:58 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 67035    | 20.905 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 35185    | 22.000 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 212035   | 20.639 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 65322    | 20.646 | ug/l  | 99       |

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

