

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062218\  
 Data File : VN049489.D  
 Acq On : 22 Jun 2018 14:15  
 Operator : MD\SY  
 Sample : VN0622WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0622WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 6/25/2018 4:23:21 PM

Quant Time: Jun 22 22:35:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1347085  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1977255  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1785659  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 836813   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 829428   | 46.42 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.84% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 753801   | 47.12 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.24% |      |
| 50) Toluene-d8            | 10.09  | 98  | 2697766  | 44.29 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.58% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 898925   | 44.63 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.26% |      |

## Target Compounds

|                               |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 270394  | 17.44  | ug/l   | 99     |
| 3) Chloromethane              | 2.06 | 50  | 339210  | 16.94  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.18 | 62  | 368898  | 17.34  | ug/l   | 100    |
| 5) Bromomethane               | 2.57 | 94  | 205741  | 18.39  | ug/l   | 98     |
| 6) Chloroethane               | 2.71 | 64  | 237158  | 18.69  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.02 | 101 | 495911  | 18.68  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74  | 177762  | 19.18  | ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101 | 314112  | 18.66  | ug/l   | 94     |
| 10) Methyl Iodide             | 3.95 | 142 | 334377  | 19.08  | ug/l   | 92     |
| 11) Tert butyl alcohol        | 4.80 | 59  | 93460   | 89.12  | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 3.73 | 96  | 272696  | 17.66  | ug/l   | 92     |
| 13) Acrolein                  | 3.61 | 56  | 92699   | 84.29  | ug/l   | 98     |
| 14) Allyl chloride            | 4.32 | 41  | 439166  | 18.01  | ug/l   | 90     |
| 15) Acrylonitrile             | 4.99 | 53  | 496914  | 94.77  | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43  | 437289  | 100.80 | ug/l   | 90     |
| 17) Carbon Disulfide          | 4.05 | 76  | 793168  | 16.38  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.33 | 43  | 274795  | 20.77  | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 750545  | 19.06  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.55 | 84  | 339049  | 18.71  | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96  | 296842  | 18.15  | ug/l   | 90     |
| 22) Diisopropyl ether         | 5.96 | 45  | 954926  | 19.61  | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.90 | 43  | 2939152 | 92.57  | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 578832  | 18.57  | ug/l   | 98     |
| 25) 2-Butanone                | 6.84 | 43  | 565357  | 97.06  | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.82 | 77  | 474869  | 18.86  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 327533  | 18.02  | ug/l   | 94     |
| 28) Bromochloromethane        | 7.20 | 49  | 260912  | 18.88  | ug/l # | 83     |
| 29) Tetrahydrofuran           | 7.21 | 42  | 354209  | 94.46  | ug/l   | 93     |
| 30) Chloroform                | 7.37 | 83  | 583622  | 18.81  | ug/l   | 99     |
| 31) Cyclohexane               | 7.65 | 56  | 475521  | 17.88  | ug/l   | 93     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 498784  | 18.84  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 419611  | 18.52  | ug/l   | 97     |
| 37) Ethyl Acetate             | 6.93 | 43  | 249630  | 20.26  | ug/l # | 98     |
| 38) Carbon Tetrachloride      | 7.77 | 117 | 435705  | 18.57  | ug/l   | 98     |

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 Sample : VN0622WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0622WBSD01

Manual Integrations  
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MMDadoda  
 6/25/2018 4:23:21 PM

Quant Time: Jun 22 22:35:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 429771   | 17.67  | ug/l   | 96       |
| 40) Benzene                    | 8.04  | 78   | 1300722  | 18.72  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.18  | 41   | 136924   | 20.56  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 413540   | 19.27  | ug/l   | 95       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 451201   | 19.17  | ug/l   | 98       |
| 44) Trichloroethene            | 8.83  | 130  | 352711   | 19.22  | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 345611   | 19.00  | ug/l   | 100      |
| 46) Dibromomethane             | 9.21  | 93   | 204028   | 19.34  | ug/l   | 92       |
| 47) Bromodichloromethane       | 9.40  | 83   | 442197   | 19.08  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.20  | 41   | 216535   | 19.53  | ug/l   | 89       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 57351    | 374.88 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 1210773  | 98.14  | ug/l   | 94       |
| 52) Toluene                    | 10.16 | 92   | 792826   | 19.44  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 405213   | 18.27  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 482837   | 18.44  | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 288639   | 18.99  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 333771   | 19.03  | ug/l # | 87       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 482985   | 19.18  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 341186   | 65.63  | ug/l   | 94       |
| 59) 2-Hexanone                 | 10.75 | 43   | 779265   | 97.98  | ug/l   | 94       |
| 60) Dibromochloromethane       | 10.90 | 129  | 324556   | 19.13  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 266406   | 18.85  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.63 | 164  | 401717   | 21.95  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.44 | 112  | 846921   | 18.41  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 325775   | 18.82  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.51 | 91   | 1425047  | 18.68  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 1116030  | 38.97  | ug/l   | 96       |
| 69) o-Xylene                   | 11.95 | 106  | 526678   | 19.10  | ug/l   | 95       |
| 70) Styrene                    | 11.97 | 104  | 832583   | 19.13  | ug/l   | 98       |
| 71) Bromoform                  | 12.13 | 173  | 216372   | 19.31  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.25 | 105  | 1395018  | 18.99  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 322045   | 17.90  | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 306898   | 18.91  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 293922m  | 20.59  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 358507   | 18.47  | ug/l   | 90       |
| 78) n-propylbenzene            | 12.59 | 91   | 1563187  | 19.38  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 973702   | 19.05  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 1136939  | 19.69  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 80970    | 17.92  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 944775   | 19.16  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 962174   | 18.81  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1129291  | 19.68  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1284714  | 18.87  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 1059720  | 18.63  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 598960   | 18.76  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 567469   | 17.93  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 758707   | 17.07  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.88 | 117  | 215336   | 18.95  | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 585119   | 18.69  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 45429    | 17.76  | ug/l   | 85       |

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Sample : VN0622WBSD01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0622WBSD01

Manual Integrations  
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MMDadoda  
6/25/2018 4:23:21 PM

Quant Time: Jun 22 22:35:00 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:02:01 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 176083   | 15.85 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 191550   | 19.24 | ug/l  | 99       |
| 95) Naphthalene            | 15.14 | 128  | 342562   | 16.26 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 196006   | 16.46 | ug/l  | 97       |

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

