

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN112718\  
 Data File : VN052489.D  
 Acq On : 27 Nov 2018 19:53  
 Operator : MD\SY  
 Sample : VN1127MBS02  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 24 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1127MBS02

Manual Integrations  
 APPROVED

MMDadoda  
 11/28/2018 9:34:15 AM

Quant Time: Nov 28 07:04:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 28 01:11:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1147569  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1791709  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1572678  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 700020   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 594747   | 47.60 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.20% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 538792   | 48.78 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.56% |      |
| 50) Toluene-d8            | 10.09  | 98  | 2104789  | 48.95 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.90% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 700229   | 48.46 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.92% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 186298  | 17.34  | ug/l | 98     |
| 3) Chloromethane              | 2.06 | 50  | 254980  | 17.98  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.19 | 62  | 263193  | 18.06  | ug/l | 99     |
| 5) Bromomethane               | 2.58 | 94  | 154143  | 16.96  | ug/l | 100    |
| 6) Chloroethane               | 2.71 | 64  | 158739  | 17.99  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.02 | 101 | 323823  | 18.09  | ug/l | 100    |
| 8) Diethyl Ether              | 3.41 | 74  | 126881  | 19.20  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.77 | 101 | 199960  | 17.91  | ug/l | 98     |
| 10) Methyl Iodide             | 3.96 | 142 | 276176  | 18.57  | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.77 | 59  | 49598   | 79.29  | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.74 | 96  | 198762  | 18.49  | ug/l | 97     |
| 13) Acrolein                  | 3.61 | 56  | 88851   | 103.61 | ug/l | 99     |
| 14) Allyl chloride            | 4.33 | 41  | 339122  | 18.30  | ug/l | 99     |
| 15) Acrylonitrile             | 4.99 | 53  | 352377  | 88.99  | ug/l | 99     |
| 16) Acetone                   | 3.82 | 43  | 233785  | 70.94  | ug/l | 97     |
| 17) Carbon Disulfide          | 4.06 | 76  | 571603  | 16.90  | ug/l | 99     |
| 18) Methyl Acetate            | 4.33 | 43  | 169472  | 17.93  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 547701  | 19.15  | ug/l | 98     |
| 20) Methylene Chloride        | 4.56 | 84  | 227969  | 17.68  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.05 | 96  | 215671  | 18.79  | ug/l | 98     |
| 22) Diisopropyl ether         | 5.95 | 45  | 729305  | 18.74  | ug/l | 96     |
| 23) Vinyl Acetate             | 5.90 | 43  | 2240866 | 92.45  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 412604  | 18.57  | ug/l | 99     |
| 25) 2-Butanone                | 6.83 | 43  | 389343  | 83.35  | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 265085  | 17.24  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 246768  | 18.45  | ug/l | 98     |
| 28) Bromochloromethane        | 7.20 | 49  | 204533  | 20.15  | ug/l | 97     |
| 29) Tetrahydrofuran           | 7.21 | 42  | 261955  | 86.94  | ug/l | 98     |
| 30) Chloroform                | 7.37 | 83  | 397325  | 17.92  | ug/l | 98     |
| 31) Cyclohexane               | 7.65 | 56  | 397159  | 18.23  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 328665  | 18.71  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 309902  | 18.32  | ug/l | 98     |
| 37) Ethyl Acetate             | 6.93 | 43  | 178361  | 17.27  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.78 | 117 | 277195  | 18.10  | ug/l | 98     |

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 Sample : VN1127MBS02  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 24 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN1127MBS02

Manual Integrations  
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 11/28/2018 9:34:15 AM

Quant Time: Nov 28 07:04:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 28 01:11:38 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 376296   | 18.30  | ug/l   | 99       |
| 40) Benzene                    | 8.04  | 78   | 969125   | 19.22  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.17  | 41   | 86348    | 15.30  | ug/l # | 86       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 286380   | 18.76  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.16  | 43   | 332029   | 19.00  | ug/l   | 98       |
| 44) Trichloroethene            | 8.84  | 130  | 244879   | 18.96  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 251551   | 18.76  | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 138222   | 18.63  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.40  | 83   | 293277   | 18.18  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.20  | 41   | 165140   | 18.12  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 32020    | 338.61 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 896087   | 91.40  | ug/l   | 100      |
| 52) Toluene                    | 10.16 | 92   | 665704   | 22.22  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 286050   | 18.43  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 347898   | 18.70  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 197686   | 18.76  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 251676   | 18.97  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 345787   | 18.58  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 707840   | 92.57  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 576916   | 87.67  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 207917   | 18.17  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 194704   | 18.60  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 231157   | 18.96  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 621188   | 19.16  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 211564   | 18.76  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 1111475  | 19.57  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 900610   | 42.60  | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 425637   | 20.73  | ug/l   | 100      |
| 70) Styrene                    | 11.97 | 104  | 637754   | 19.50  | ug/l   | 100      |
| 71) Bromoform                  | 12.13 | 173  | 135433   | 18.14  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.25 | 105  | 1054442  | 19.20  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 263712   | 19.01  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 227234   | 18.19  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 209542m  | 19.41  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 266191   | 19.61  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.59 | 91   | 1197480  | 19.19  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 706724   | 19.02  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 868893   | 19.84  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 54566    | 16.88  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 703814   | 18.80  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 762649   | 19.53  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 918495   | 20.92  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1019722  | 19.17  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 865491   | 19.11  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 444523   | 18.72  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 436737   | 18.67  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.62 | 91   | 706044   | 18.74  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.88 | 117  | 136251   | 17.76  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 435089   | 19.18  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 31951    | 17.88  | ug/l   | 98       |

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Quant Title : SW846 8260  
QLast Update : Wed Nov 28 01:11:38 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 208943   | 18.69 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 139051   | 19.05 | ug/l  | 98       |
| 95) Naphthalene            | 15.14 | 128  | 490687   | 20.77 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 198590   | 19.16 | ug/l  | 99       |

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

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