

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101220\  
 Data File : VN064084.D  
 Acq On : 12 Oct 2020 17:50  
 Operator : JC/MD  
 Sample : VN1012MBS01  
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1012MBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/13/2020 4:09:48 PM

Quant Time: Oct 13 02:09:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 01:46:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 256655   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 428587   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 394441   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 175265   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 203488   | 47.99 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.98% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 143544   | 48.27 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.54% |      |
| 50) Toluene-d8            | 10.06  | 98  | 527710   | 46.81 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.62% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 191030   | 45.08 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.16% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 43374  | 16.016  | ug/l | 99     |
| 3) Chloromethane              | 2.04 | 50  | 56841  | 17.888  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.16 | 62  | 56626  | 17.753  | ug/l | 99     |
| 5) Bromomethane               | 2.53 | 94  | 35276  | 17.582  | ug/l | 98     |
| 6) Chloroethane               | 2.67 | 64  | 35898  | 18.834  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 90541  | 17.898  | ug/l | 98     |
| 8) Diethyl Ether              | 3.37 | 74  | 34667  | 20.263  | ug/l | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 48928  | 18.096  | ug/l | 97     |
| 10) Methyl Iodide             | 3.91 | 142 | 58119  | 18.512  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.74 | 59  | 59453  | 127.003 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 46399  | 17.953  | ug/l | 93     |
| 13) Acrolein                  | 3.57 | 56  | 27861  | 96.973  | ug/l | 100    |
| 14) Allyl chloride            | 4.28 | 41  | 99633  | 20.751  | ug/l | 87     |
| 15) Acrylonitrile             | 4.93 | 53  | 156546 | 116.828 | ug/l | 98     |
| 16) Acetone                   | 3.78 | 43  | 145773 | 111.682 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.01 | 76  | 120394 | 17.694  | ug/l | 98     |
| 18) Methyl Acetate            | 4.28 | 43  | 87326  | 25.768  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 184328 | 19.631  | ug/l | 96     |
| 20) Methylene Chloride        | 4.51 | 84  | 59114  | 19.832  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 51231  | 17.697  | ug/l | 98     |
| 22) Diisopropyl ether         | 5.90 | 45  | 215161 | 21.780  | ug/l | 94     |
| 23) Vinyl Acetate             | 5.85 | 43  | 850361 | 103.917 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 111367 | 19.717  | ug/l | 98     |
| 25) 2-Butanone                | 6.79 | 43  | 228222 | 123.329 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 93584  | 18.092  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 61096  | 18.351  | ug/l | 96     |
| 28) Bromochloromethane        | 7.15 | 49  | 54167  | 19.403  | ug/l | 93     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 152091 | 122.542 | ug/l | 94     |
| 30) Chloroform                | 7.33 | 83  | 112152 | 19.043  | ug/l | 95     |
| 31) Cyclohexane               | 7.61 | 56  | 88710  | 18.021  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 100257 | 18.873  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.76 | 75  | 79523  | 18.315  | ug/l | 98     |
| 37) Ethyl Acetate             | 6.88 | 43  | 94166  | 21.829  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 84867  | 17.430  | ug/l | 97     |

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 Operator : JC/MD  
 Sample : VN1012MBS01  
 Misc : 5.00µg/10µL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN1012MBS01

Manual Integrations  
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MMDadoda  
 10/13/2020 4:09:48 PM

Quant Time: Oct 13 02:09:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 01:46:38 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 70026    | 16.172  | ug/l   | 96       |
| 40) Benzene                    | 8.00  | 78   | 236594   | 19.077  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.13  | 41   | 42086m   | 21.951  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 97138    | 18.349  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 148977   | 20.937  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 58488    | 17.999  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 67342    | 20.106  | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 43302    | 18.741  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 90580    | 19.022  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.17  | 41   | 73247    | 20.835  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 22982    | 459.980 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 486480   | 116.503 | ug/l   | 100      |
| 52) Toluene                    | 10.13 | 92   | 145488   | 18.966  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 94146    | 18.444  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 102039   | 19.114  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 60596    | 19.698  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 88590    | 20.316  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 104835   | 20.143  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 244824   | 104.961 | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.72 | 43   | 345899   | 111.510 | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.87 | 129  | 66218    | 18.483  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 60504    | 19.227  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.60 | 164  | 54100    | 17.728  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 149740   | 18.506  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 61500    | 19.826  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.49 | 91   | 271848   | 18.464  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.59 | 106  | 200028   | 36.453  | ug/l   | 100      |
| 69) o-Xylene                   | 11.92 | 106  | 95405    | 18.602  | ug/l   | 97       |
| 70) Styrene                    | 11.94 | 104  | 160395   | 18.424  | ug/l   | 100      |
| 71) Bromoform                  | 12.10 | 173  | 45289    | 19.090  | ug/l # | 95       |
| 73) Isopropylbenzene           | 12.22 | 105  | 261675   | 20.469  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 130638   | 23.228  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 87442    | 22.369  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 84854m   | 21.963  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 63982    | 20.397  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.57 | 91   | 290177   | 19.504  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 183674   | 20.074  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 212515   | 19.815  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 29133    | 21.718  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 189582   | 19.959  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 174859   | 19.932  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 209916   | 19.604  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 220476   | 19.134  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 196375   | 19.265  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 108920   | 19.193  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 110772   | 18.747  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.59 | 91   | 160905   | 17.103  | ug/l   | 97       |
| 90) Hexachloroethane           | 13.85 | 117  | 38902    | 19.695  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 106333   | 18.918  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 18878    | 20.592  | ug/l   | 96       |

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Acq On : 12 Oct 2020 17:50  
Operator : JC/MD  
Sample : VN1012MBS01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1012MBS01

Manual Integrations  
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MMDadoda  
10/13/2020 4:09:48 PM

Quant Time: Oct 13 02:09:04 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 01:46:38 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 46043    | 16.278 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 29089    | 19.128 | ug/l  | 97       |
| 95) Naphthalene            | 15.10 | 128  | 140209   | 16.180 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 47222    | 16.998 | ug/l  | 98       |

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

