

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW031721\  
 Data File : VW018345.D  
 Acq On : 17 Mar 2021 14:30  
 Operator : SY/VA  
 Sample : VSTDIC010  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

Quant Time: Mar 17 18:23:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W031721S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 17 18:21:33 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 7.945  | 168  | 420384   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.841  | 114  | 684391   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.634 | 117  | 605268   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.554 | 152  | 301020   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.305  | 65  | 47939    | 9.31  | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 18.62% |      |
| 35) Dibromofluoromethane    | 7.884  | 113 | 43527    | 9.68  | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 19.36% |      |
| 50) Toluene-d8              | 10.323 | 98  | 171479   | 10.16 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 20.32% |      |
| 62) 4-Bromofluorobenzene    | 12.615 | 95  | 63681    | 10.24 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 20.48% |      |

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|                              |       |     |        |       |          |
|------------------------------|-------|-----|--------|-------|----------|
| Target Compounds             |       |     |        |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.013 | 85  | 31047  | 8.39  | ug/l 97  |
| 3) Chloromethane             | 2.221 | 50  | 50579  | 14.99 | ug/l 96  |
| 4) Vinyl Chloride            | 2.361 | 62  | 34232  | 7.17  | ug/l 96  |
| 5) Bromomethane              | 2.782 | 94  | 40741  | 10.90 | ug/l 100 |
| 6) Chloroethane              | 2.928 | 64  | 38024  | 12.78 | ug/l 99  |
| 7) Trichlorofluoromethane    | 3.257 | 101 | 37744  | 8.64  | ug/l 97  |
| 8) Diethyl Ether             | 3.684 | 74  | 22283  | 10.06 | ug/l 92  |
| 9) 1,1,2-Trichlorotrifluo... | 4.068 | 101 | 41759  | 8.56  | ug/l 97  |
| 10) Methyl Iodide            | 4.281 | 142 | 57968  | 8.70  | ug/l 96  |
| 11) Tert butyl alcohol       | 5.159 | 59  | 14499  | 64.28 | ug/l 99  |
| 12) 1,1-Dichloroethene       | 4.044 | 96  | 41888  | 8.89  | ug/l 94  |
| 13) Acrolein                 | 3.891 | 56  | 12551  | 46.82 | ug/l 97  |
| 14) Allyl chloride           | 4.672 | 41  | 59089  | 10.86 | ug/l 95  |
| 15) Acrylonitrile            | 5.367 | 53  | 43447  | 48.79 | ug/l 98  |
| 16) Acetone                  | 4.123 | 43  | 38053  | 54.07 | ug/l 98  |
| 17) Carbon Disulfide         | 4.379 | 76  | 99247  | 7.79  | ug/l 96  |
| 18) Methyl Acetate           | 4.672 | 43  | 17544  | 9.65  | ug/l 98  |
| 19) Methyl tert-butyl Ether  | 5.421 | 73  | 64312  | 10.96 | ug/l 99  |
| 20) Methylene Chloride       | 4.915 | 84  | 59100  | 9.12  | ug/l 93  |
| 21) trans-1,2-Dichloroethene | 5.427 | 96  | 49182  | 9.28  | ug/l 88  |
| 22) Diisopropyl ether        | 6.305 | 45  | 120336 | 10.71 | ug/l 93  |
| 23) Vinyl Acetate            | 6.257 | 43  | 368780 | 53.87 | ug/l 97  |
| 24) 1,1-Dichloroethane       | 6.220 | 63  | 85029  | 9.91  | ug/l 98  |
| 25) 2-Butanone               | 7.165 | 43  | 51855  | 50.94 | ug/l 93  |
| 26) 2,2-Dichloropropane      | 7.171 | 77  | 57322  | 10.62 | ug/l 98  |
| 27) cis-1,2-Dichloroethene   | 7.171 | 96  | 53471  | 9.32  | ug/l 91  |
| 28) Bromochloromethane       | 7.512 | 49  | 34178  | 10.73 | ug/l 85  |
| 29) Tetrahydrofuran          | 7.531 | 42  | 33534  | 51.52 | ug/l 95  |
| 30) Chloroform               | 7.677 | 83  | 88588  | 9.14  | ug/l 94  |
| 31) Cyclohexane              | 7.957 | 56  | 83137  | 10.63 | ug/l 91  |
| 32) 1,1,1-Trichloroethane    | 7.872 | 97  | 71931  | 8.73  | ug/l 96  |
| 36) 1,1-Dichloropropene      | 8.079 | 75  | 71869  | 9.91  | ug/l 98  |
| 37) Ethyl Acetate            | 7.250 | 43  | 26476  | 11.44 | ug/l 98  |
| 38) Carbon Tetrachloride     | 8.067 | 117 | 65852  | 8.75  | ug/l 96  |
| 39) Methylcyclohexane        | 9.335 | 83  | 91498  | 10.47 | ug/l 94  |
| 40) Benzene                  | 8.323 | 78  | 188242 | 9.86  | ug/l 100 |

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 Sample : VSTDIC010  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
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Quant Time: Mar 17 18:23:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W031721S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 17 18:21:33 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.476  | 41   | 13436    | 10.43  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.403  | 62   | 61065    | 9.75   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.421  | 43   | 49814    | 11.32  | ug/l   | 95       |
| 44) Trichloroethene           | 9.091  | 130  | 50824    | 9.34   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.366  | 63   | 47321    | 10.75  | ug/l   | 100      |
| 46) Dibromomethane            | 9.457  | 93   | 25547    | 9.46   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.646  | 83   | 65939    | 9.54   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.439  | 41   | 23058    | 10.72  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.445  | 88   | 7285     | 215.93 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.207 | 43   | 121889   | 54.43  | ug/l   | 96       |
| 52) Toluene                   | 10.384 | 92   | 124048   | 9.81   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.603 | 75   | 67304    | 10.76  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 76512    | 10.40  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 34168    | 9.40   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.646 | 69   | 44440    | 10.62  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.933 | 76   | 62784    | 10.19  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.921  | 63   | 110127   | 52.15  | ug/l   | 92       |
| 59) 2-Hexanone                | 10.969 | 43   | 84117    | 55.19  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.128 | 129  | 40409    | 9.23   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.231 | 107  | 32930    | 9.26   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.866 | 164  | 41092    | 9.65   | ug/l   | 86       |
| 65) Chlorobenzene             | 11.658 | 112  | 126512   | 9.37   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 43362    | 9.08   | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.731 | 91   | 246589   | 9.86   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.841 | 106  | 186092   | 19.98  | ug/l   | 100      |
| 69) o-Xylene                  | 12.164 | 106  | 87250    | 10.22  | ug/l   | 96       |
| 70) Styrene                   | 12.182 | 104  | 141215   | 9.65   | ug/l   | 98       |
| 71) Bromoform                 | 12.347 | 173  | 20811    | 9.25   | ug/l # | 91       |
| 73) Isopropylbenzene          | 12.463 | 105  | 239091   | 9.50   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.274 | 43   | 48790    | 12.02  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 38833    | 9.54   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.768 | 75   | 26621m   | 9.45   | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 49106    | 9.27   | ug/l   | 93       |
| 78) n-propylbenzene           | 12.804 | 91   | 286906   | 9.72   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 165290   | 9.65   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.944 | 105  | 202249   | 9.40   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.512 | 75   | 12437    | 10.91  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 170548   | 9.48   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.200 | 119  | 172566   | 9.41   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 203358   | 9.46   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.383 | 105  | 248904   | 9.76   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.493 | 119  | 219672   | 9.37   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 100312   | 9.37   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.578 | 146  | 100612   | 9.53   | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.822 | 91   | 225717   | 10.07  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.091 | 117  | 39405    | 9.69   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.871 | 146  | 86422    | 9.40   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.487 | 75   | 7801     | 10.99  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.127 | 180  | 63888    | 10.03  | ug/l   | 94       |
| 94) Hexachlorobutadiene       | 15.231 | 225  | 35561    | 9.73   | ug/l   | 89       |
| 95) Naphthalene               | 15.365 | 128  | 112549   | 9.22   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.554 | 180  | 51204    | 9.44   | ug/l   | 97       |

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Operator : SY/VA  
Sample : VSTDIC010  
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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC010

Manual Integrations  
APPROVED

Quant Time: Mar 17 18:23:09 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W031721S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 17 18:21:33 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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3/18/2021 4:12:21 PM

## Manual Integrations

Abundance

TIC: VW018345.D\data.ms

3/18/2021 4:12:21 PM

MMDadoda

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

1500000

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500000

450000

400000

350000

300000

250000

200000

150000

100000

50000

0

Dichlorodifluoromethane, T

Chloromethane, P

Vinyl Chloride, C

Bromomethane, T

Chloroethane, T

Trichlorofluoromethane, T

Diethyl Ether, T

Acrolein, T

1,1-Dichloroethane, T

Acetone, T

Methyl iodide, T

Methyl disulfide, T

Methyl acetate, T

Methylene Chloride, T

Tert butyl alcohol, T

Acrylonitrile, T

1,2-Dichloroethane, T

1,1-Dichloroethane, T

Ethyl Acetate, T

Methacrylonitrile, T

Chloroform, C

Carbon tetrachloride, T

1,2-Dichlorobenzene, TMS

1,4-Difluorobenzene, I

Trichloroethene, TM

2-Dichloroethane, T

Bromodichloromethane, T

cis-1,3-Dichloropropene, T

2-Chloroethyl Vinyl ether, T

1,2-Trichloroethane, T

1,3-Dichlorobenzene, T

1,2-Dibromochloroethane, T

Chlorobenzene, PM

Ethyl 2-bromochloroethane, T

Styrene, p-Xylene, T

Bromotolyl acetate, T

trans-1,4-Dichloro-2-butene, T

4-Bromofluorobenzene S

1,2-Dichlorobenzene, T

1,2,3-Trichlorobenzene, T

2-Chlorobenzene, T

1,2,4-Trimethylbenzene, T

tert-Butylbenzene, T

sec-Butylbenzene, T

1,4-Dichlorobenzene, T

n-Butylbenzene, T

1,2-Dichlorobenzene, T

Hexachloroethane, T

1,2-Dibromo-3-Chloropropane, T

1,2,4-Trichlorobenzene, T

Hexachlorobutadiene, T

Naphthalene, T

1,2,3-Trichlorobenzene, T

Chlorobenzene-d5, I

1,4-Dichlorobenzene-d4, I