

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022221\  
 Data File : VY004031.D  
 Acq On : 22 Feb 2021 12:07  
 Operator : SY/MD  
 Sample : VSTDIC020  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

MMDadoda  
 2/23/2021 1:06:09 PM

Quant Time: Feb 23 03:14:39 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 23 03:09:40 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 72252      | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 108694     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 98972      | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 50241      | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 15617      | 19.37   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 38.74%# |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 12566      | 19.18   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 38.36%# |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 49832      | 18.97   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 37.94%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 17715      | 19.09   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 38.18%  |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 16066      | 23.43   | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 22647      | 22.11   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.253          | 62   | 21316      | 21.46   | ug/l   | 96       |
| 5) Bromomethane              | 2.643          | 94   | 13469      | 20.22   | ug/l   | 100      |
| 6) Chloroethane              | 2.790          | 64   | 12802      | 21.34   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 26209      | 21.10   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.534          | 74   | 7906       | 19.89   | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 13393      | 20.16   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.094          | 142  | 16569      | 19.86   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 11965      | 100.02  | ug/l # | 90       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 13483      | 20.21   | ug/l   | 99       |
| 13) Acrolein                 | 3.735          | 56   | 8124       | 101.31  | ug/l   | 99       |
| 14) Allyl chloride           | 4.485          | 41   | 26331      | 20.82   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.167          | 53   | 20762      | 99.08   | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 19268      | 94.56   | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.192          | 76   | 44530      | 20.66   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 9689       | 20.23   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 39789      | 20.32   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.722          | 84   | 16906      | 20.52   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 15358      | 20.48   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.125          | 45   | 50420      | 20.29   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.064          | 43   | 167826     | 99.73   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 26862      | 20.21   | ug/l   | 98       |
| 25) 2-Butanone               | 6.990          | 43   | 28282      | 97.40   | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 25130      | 20.45   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 16678      | 20.25   | ug/l   | 100      |
| 28) Bromochloromethane       | 7.332          | 49   | 12292      | 20.93   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.350          | 42   | 18133      | 96.76   | ug/l   | 100      |
| 30) Chloroform               | 7.508          | 83   | 27365      | 20.30   | ug/l   | 96       |
| 31) Cyclohexane              | 7.789          | 56   | 26856      | 19.85   | ug/l # | 96       |
| 32) 1,1,1-Trichloroethane    | 7.703          | 97   | 25310      | 20.44   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 21810      | 20.04   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 12606      | 19.59   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 22968      | 20.44   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.179          | 83   | 26399      | 20.07   | ug/l   | 98       |
| 40) Benzene                  | 8.161          | 78   | 60963      | 20.17   | ug/l   | 99       |

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 ALS Vial : 5 Sample Multiplier: 1

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 VSTDIC020

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 2/23/2021 1:06:09 PM

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 23 03:09:40 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 6983m    | 16.35  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 20097    | 20.24  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.270  | 43   | 23538    | 19.41  | ug/l   | 99       |
| 44) Trichloroethene           | 8.941  | 130  | 16840    | 20.16  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 14296    | 19.29  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 8349     | 20.15  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.496  | 83   | 21667    | 20.45  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 11381    | 19.19  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 1980     | 396.33 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 60637    | 96.81  | ug/l   | 99       |
| 52) Toluene                   | 10.240 | 92   | 37827    | 20.01  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 22951    | 20.13  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 25581    | 20.05  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 11445    | 19.49  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 16327    | 19.47  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 20568    | 19.78  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 40017    | 105.21 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.831 | 43   | 42898    | 97.18  | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.983 | 129  | 14865    | 20.06  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 11514    | 20.00  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 18433    | 20.20  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 40475    | 20.30  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 15414    | 20.24  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 75172    | 20.10  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.697 | 106  | 55342    | 40.12  | ug/l   | 99       |
| 69) o-Xylene                  | 12.026 | 106  | 26161    | 20.18  | ug/l   | 100      |
| 70) Styrene                   | 12.038 | 104  | 44764    | 20.10  | ug/l   | 99       |
| 71) Bromoform                 | 12.203 | 173  | 9698     | 19.91  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.325 | 105  | 71959    | 20.17  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 21508    | 19.96  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 12819    | 19.74  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 9642m    | 18.23  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 17967    | 20.47  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.666 | 91   | 86476    | 20.25  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 49064    | 20.25  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 62238    | 20.46  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 5300     | 19.51  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 51344    | 20.20  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 52987    | 20.33  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 61447    | 20.16  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 73130    | 20.49  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 67245    | 20.23  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 33701    | 20.15  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 33418    | 20.12  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.690 | 91   | 63210    | 20.48  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.958 | 117  | 12045    | 20.32  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 30416    | 20.56  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 2416     | 19.43  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 21087    | 19.84  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.105 | 225  | 13825    | 20.60  | ug/l   | 100      |
| 95) Naphthalene               | 15.233 | 128  | 37321    | 19.26  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 18140    | 20.02  | ug/l   | 98       |

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Response via : Initial Calibration

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

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

