

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070921\  
 Data File : VY005393.D  
 Acq On : 09 Jul 2021 11:35  
 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  
 7/12/2021 5:46:29 PM

Quant Time: Jul 10 07:32:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y070921S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 10 07:30:20 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 321664     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 461028     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 426553     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 229367     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.148          | 65   | 63902      | 21.205  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 42.400% | #      |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 58510      | 21.625  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 43.260% | #      |          |
| 50) Toluene-d8               | 10.179         | 98   | 248928     | 21.614  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 43.220% | #      |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 82863      | 21.343  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 42.680% | #      |          |
| Target Compounds             |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 61139      | 21.334  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 59690      | 20.471  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.253          | 62   | 73707      | 20.437  | ug/l   | 98       |
| 5) Bromomethane              | 2.637          | 94   | 53881      | 20.078  | ug/l   | 98       |
| 6) Chloroethane              | 2.790          | 64   | 46784      | 20.681  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 110936     | 20.890  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.533          | 74   | 38277      | 20.783  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 62788      | 21.027  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.094          | 142  | 77273      | 21.263  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.972          | 59   | 47040      | 109.262 | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 63630      | 20.750  | ug/l   | 98       |
| 13) Acrolein                 | 3.735          | 56   | 21487      | 95.200  | ug/l   | 97       |
| 14) Allyl chloride           | 4.484          | 41   | 87997      | 20.628  | ug/l   | 100      |
| 15) Acrylonitrile            | 5.173          | 53   | 87490      | 104.380 | ug/l   | 100      |
| 16) Acetone                  | 3.960          | 43   | 64608      | 100.131 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.198          | 76   | 199633     | 20.855  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.491          | 43   | 36514      | 20.419  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 170586     | 20.554  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.722          | 84   | 86331      | 19.317  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 71762      | 20.999  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.124          | 45   | 178469     | 21.000  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.070          | 43   | 588665     | 104.685 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 110598     | 20.618  | ug/l   | 100      |
| 25) 2-Butanone               | 6.996          | 43   | 103592     | 101.889 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 101129     | 20.315  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 76727      | 20.272  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.338          | 49   | 38934      | 19.337  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 70848      | 105.049 | ug/l   | 100      |
| 30) Chloroform               | 7.508          | 83   | 119850     | 20.845  | ug/l   | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 109364     | 20.477  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.703          | 97   | 110896     | 20.832  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 92616      | 20.578  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.082          | 43   | 46940      | 20.742  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 104695     | 20.807  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 123919     | 20.923  | ug/l   | 99       |
| 40) Benzene                  | 8.167          | 78   | 273916     | 20.764  | ug/l   | 99       |

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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.332  | 41   | 27122m   | 20.458  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 79126    | 20.769  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 83788    | 20.184  | ug/l   | 98       |
| 44) Trichloroethene           | 8.941  | 130  | 81412    | 20.970  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.221  | 63   | 63691    | 20.666  | ug/l   | 98       |
| 46) Dibromomethane            | 9.307  | 93   | 37208    | 20.605  | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.496  | 83   | 89664    | 20.504  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.295  | 41   | 39845    | 20.763  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 12237    | 433.963 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 239425   | 104.374 | ug/l   | 100      |
| 52) Toluene                   | 10.246 | 92   | 182337   | 20.999  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 99750    | 20.427  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 110611   | 20.549  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 55392    | 20.671  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 76418    | 20.518  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 93170    | 20.596  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 173797   | 109.145 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.837 | 43   | 165987   | 103.605 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.989 | 129  | 69896    | 20.877  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 54026    | 20.954  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 80341    | 20.828  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 194983   | 20.540  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 73038    | 20.689  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 340932   | 20.494  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 276220   | 41.502  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 130569   | 20.624  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 221838   | 20.675  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 48181    | 20.645  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 344107   | 20.615  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 78684    | 19.894  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 63637    | 20.543  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.635 | 75   | 45618m   | 21.331  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 85744    | 20.361  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.672 | 91   | 404730   | 20.601  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 226198   | 20.489  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 289077   | 20.760  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 24171    | 20.257  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 233456   | 20.345  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 262567   | 21.210  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 285932   | 20.552  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 375268   | 20.746  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 325962   | 20.754  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 170454   | 20.417  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 170348   | 20.642  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.696 | 91   | 286937   | 20.613  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.964 | 117  | 57058    | 20.293  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 152289   | 20.635  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 11806    | 20.150  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 104264   | 20.595  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 66061    | 20.891  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 202507   | 20.279  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 91450    | 20.447  | ug/l   | 98       |

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

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