

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100223\  
 Data File : VY015774.D  
 Acq On : 02 Oct 2023 11:48  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 10/03/2023  
 Supervised By :Semsettin Yesilyurt 10/03/2023

Quant Time: Oct 03 01:19:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 20 01:39:40 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 205432     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 340040     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 306701     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 154161     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 97338      | 43.064  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 86.120% |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 92534      | 45.466  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 90.940% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 314828     | 45.622  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 91.240% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 122538     | 45.248  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 90.500% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 66048      | 48.775  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 73845      | 43.226  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.247          | 62   | 94053      | 48.152  | ug/l   | 98       |
| 5) Bromomethane              | 2.637          | 94   | 76325      | 45.485  | ug/l   | 99       |
| 6) Chloroethane              | 2.790          | 64   | 71621      | 49.470  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 163322     | 49.858  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.527          | 74   | 67875      | 48.589  | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 105145     | 51.265  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.088          | 142  | 119789     | 49.685  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.942          | 59   | 135028     | 290.789 | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 88933      | 49.207  | ug/l   | 92       |
| 13) Acrolein                 | 3.723          | 56   | 71685      | 207.084 | ug/l   | 99       |
| 14) Allyl chloride           | 4.472          | 41   | 161349     | 48.828  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.155          | 53   | 227539     | 222.040 | ug/l   | 98       |
| 16) Acetone                  | 3.942          | 43   | 250190     | 206.833 | ug/l # | 88       |
| 17) Carbon Disulfide         | 4.192          | 76   | 159458     | 45.416  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.472          | 43   | 182439     | 44.952  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 368494     | 50.061  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.710          | 84   | 124875     | 46.832  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 103844     | 50.269  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.112          | 45   | 401013     | 50.426  | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.057          | 43   | 1162013    | 236.734 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 217712     | 50.227  | ug/l   | 97       |
| 25) 2-Butanone               | 6.978          | 43   | 349564     | 204.452 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 199921     | 50.462  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 138617     | 50.545  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.332          | 49   | 56600      | 48.129  | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 206492     | 213.677 | ug/l   | 94       |
| 30) Chloroform               | 7.502          | 83   | 236810     | 51.015  | ug/l   | 98       |
| 31) Cyclohexane              | 7.783          | 56   | 143654     | 45.878  | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 198942     | 51.916  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 151959     | 50.497  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.069          | 43   | 129781     | 43.237  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 173397     | 53.084  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 169846     | 51.029  | ug/l   | 92       |
| 40) Benzene                  | 8.155          | 78   | 465621     | 50.738  | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Wed Sep 20 01:39:40 2023  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 72827m   | 45.060  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 159243   | 50.667  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.270  | 43   | 240860   | 46.975  | ug/l   | 97       |
| 44) Trichloroethene           | 8.941  | 130  | 131844   | 51.438  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 130867   | 51.136  | ug/l   | 98       |
| 46) Dibromomethane            | 9.301  | 93   | 80855    | 49.391  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.496  | 83   | 193184   | 52.943  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 105744   | 46.985  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 29833    | 922.452 | ug/l # | 52       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 709567   | 223.273 | ug/l   | 93       |
| 52) Toluene                   | 10.246 | 92   | 304780   | 51.515  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 204449   | 52.249  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 217580   | 51.657  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 120803   | 50.355  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 179435   | 50.753  | ug/l # | 87       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 200591   | 49.860  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 179442   | 159.787 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.831 | 43   | 533896   | 218.970 | ug/l   | 91       |
| 60) Dibromochloromethane      | 10.983 | 129  | 147885   | 52.807  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 115337   | 49.143  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 133443   | 50.712  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 350760   | 52.394  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 142192   | 54.679  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 621233   | 53.090  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 478117   | 107.500 | ug/l   | 95       |
| 69) o-Xylene                  | 12.026 | 106  | 236352   | 54.194  | ug/l   | 97       |
| 70) Styrene                   | 12.044 | 104  | 411697   | 55.150  | ug/l   | 96       |
| 71) Bromoform                 | 12.209 | 173  | 100480   | 53.321  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 629362   | 54.421  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 218453   | 50.259  | ug/l # | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 159552   | 49.572  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 124305m  | 50.543  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 153705   | 54.145  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.672 | 91   | 762993   | 54.307  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 436752   | 54.536  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 532515   | 55.003  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 55226    | 50.567  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 455177   | 54.445  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 475258   | 56.048  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 528105   | 54.516  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 706208   | 55.651  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 596613   | 56.284  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 305299   | 54.211  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 304883   | 54.129  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 560699   | 55.860  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.959 | 117  | 115221   | 56.321  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 284856   | 54.793  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 29893    | 46.764  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 179933   | 54.977  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 95807    | 57.162  | ug/l   | 97       |
| 95) Naphthalene               | 15.233 | 128  | 445282   | 52.177  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 162255   | 53.713  | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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