

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022122\  
 Data File : VY007566.D  
 Acq On : 21 Feb 2022 13:17  
 Operator : SY/MD  
 Sample : VSTDICC100  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/22/2022  
 Supervised By : Mahesh Dadoda 02/22/2022

Quant Time: Feb 21 14:21:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 14:18:18 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 76083                | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 125196               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 121301               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 60145                | 50.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 90915                | 110.382 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 220.760%# |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 82201                | 104.513 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 209.020%# |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 279145               | 95.147  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 190.300%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 101137               | 101.452 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 202.900%# |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 131560               | 155.842 | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 101485               | 123.318 | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.253          | 62   | 107629               | 127.469 | ug/l   | 99       |
| 5) Bromomethane              | 2.644          | 94   | 73599                | 124.524 | ug/l   | 99       |
| 6) Chloroethane              | 2.790          | 64   | 67790                | 133.336 | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 264034               | 162.662 | ug/l   | 91       |
| 8) Diethyl Ether             | 3.528          | 74   | 59857                | 130.725 | ug/l   | 65       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 125390               | 143.491 | ug/l   | 96       |
| 10) Methyl Iodide            | 4.088          | 142  | 160595               | 148.071 | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 44886                | 687.308 | ug/l # | 90       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 109264               | 135.356 | ug/l   | 84       |
| 13) Acrolein                 | 3.735          | 56   | 24530                | 387.577 | ug/l   | 97       |
| 14) Allyl chloride           | 4.485          | 41   | 110974               | 101.592 | ug/l # | 70       |
| 15) Acrylonitrile            | 5.168          | 53   | 104700               | 530.830 | ug/l   | 98       |
| 16) Acetone                  | 3.942          | 43   | 125832               | 600.342 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.198          | 76   | 278945               | 121.635 | ug/l   | 97       |
| 18) Methyl Acetate           | 4.479          | 43   | 44911                | 98.048  | ug/l # | 73       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 277413               | 123.595 | ug/l # | 89       |
| 20) Methylene Chloride       | 4.716          | 84   | 109708               | 122.693 | ug/l # | 76       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 105605               | 120.929 | ug/l # | 81       |
| 22) Diisopropyl ether        | 6.119          | 45   | 195990               | 85.802  | ug/l # | 83       |
| 23) Vinyl Acetate            | 6.064          | 43   | 703019               | 478.121 | ug/l # | 84       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 170541               | 116.470 | ug/l   | 96       |
| 25) 2-Butanone               | 6.984          | 43   | 130627               | 503.623 | ug/l # | 71       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 194735               | 130.684 | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 118165               | 120.698 | ug/l   | 83       |
| 28) Bromochloromethane       | 7.332          | 49   | 54279                | 99.176  | ug/l # | 50       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 70512                | 458.989 | ug/l # | 65       |
| 30) Chloroform               | 7.509          | 83   | 202775               | 125.578 | ug/l   | 99       |
| 31) Cyclohexane              | 7.789          | 56   | 132259               | 94.207  | ug/l # | 76       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 211448               | 137.134 | ug/l   | 94       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 144296               | 116.453 | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.076          | 43   | 55513                | 100.599 | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 206677               | 142.993 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 186831               | 116.837 | ug/l # | 83       |
| 40) Benzene                  | 8.161          | 78   | 385108               | 113.652 | ug/l   | 97       |

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 Sample : VSTDICC100  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/22/2022  
 Supervised By : Mahesh Dadoda 02/22/2022

Quant Time: Feb 21 14:21:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 14:18:18 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.320  | 41   | 26552m   | 75.580   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 132457   | 125.444  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 117111   | 103.977  | ug/l # | 84       |
| 44) Trichloroethene           | 8.941  | 130  | 129321   | 131.607  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 88714    | 110.649  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 64354    | 124.919  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 157369   | 126.572  | ug/l # | 99       |
| 48) Methyl methacrylate       | 9.289  | 41   | 49667    | 100.070  | ug/l # | 63       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 14845    | 2691.463 | ug/l # | 75       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 287231   | 515.541  | ug/l # | 88       |
| 52) Toluene                   | 10.246 | 92   | 266782   | 121.847  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 157367   | 122.858  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 168282   | 117.837  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 83839    | 124.016  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 105981   | 118.103  | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 133309   | 115.507  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 253296   | 543.415  | ug/l # | 82       |
| 59) 2-Hexanone                | 10.831 | 43   | 215349   | 540.846  | ug/l   | 86       |
| 60) Dibromochloromethane      | 10.984 | 129  | 122005   | 140.464  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 86495    | 127.149  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 113967   | 120.329  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 298923   | 115.350  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 123973   | 125.357  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 558725   | 116.087  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 425858   | 233.286  | ug/l   | 100      |
| 69) o-Xylene                  | 12.026 | 106  | 200283   | 115.740  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 326842   | 114.903  | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 73848    | 133.392  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 556383   | 107.590  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 105078   | 91.789   | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 88463    | 100.176  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 79857m   | 116.393  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 125480   | 111.712  | ug/l   | 87       |
| 78) n-propylbenzene           | 12.666 | 91   | 649606   | 105.142  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 358190   | 105.118  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 471764   | 109.961  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 31604    | 98.839   | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 370243   | 105.881  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 420750   | 111.724  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 470567   | 112.756  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 609092   | 110.294  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 518962   | 113.616  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 243473   | 111.851  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 242390   | 111.847  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 472094   | 109.205  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 103725   | 117.509  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 215837   | 111.866  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 17477    | 113.696  | ug/l   | 77       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 143991   | 122.656  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 89542    | 130.405  | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 292174   | 114.853  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 123635   | 121.692  | ug/l   | 98       |

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ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By : John Carlone 02/22/2022  
Supervised By : Mahesh Dadoda 02/22/2022

Quant Time: Feb 21 14:21:24 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 21 14:18:18 2022  
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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