

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD060722\  
 Data File : VD073492.D  
 Acq On : 07 Jun 2022 11:01  
 Operator : VA/SY  
 Sample : VD0607SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0607SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/08/2022  
 Supervised By : Mahesh Dadoda 06/08/2022

Quant Time: Jun 07 16:33:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 2022  
 Response via : Initial Calibration

Supervised By : Mahesh  
 Dadoda  
 06/08/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 290337              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 485522              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 466650              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 246884              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.320          | 65   | 166784              | 51.980  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 103.960% |         |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 174027              | 54.319  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 108.640% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 626634              | 53.060  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 106.120% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 239979              | 57.901  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 115.800% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 52186               | 17.988  | ug/l   | 96       |
| 3) Chloromethane             | 2.209          | 50   | 52200               | 15.912  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.350          | 62   | 52304               | 17.436  | ug/l   | 95       |
| 5) Bromomethane              | 2.750          | 94   | 40080               | 18.282  | ug/l   | 92       |
| 6) Chloroethane              | 2.909          | 64   | 34867               | 18.908  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.261          | 101  | 106971              | 20.167  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.709          | 74   | 27501               | 18.868  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.085          | 101  | 61568               | 19.454  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.291          | 142  | 52723               | 15.441  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.185          | 59   | 69918               | 140.448 | ug/l # | 76       |
| 12) 1,1-Dichloroethene       | 4.061          | 96   | 53003               | 18.165  | ug/l   | 89       |
| 13) Acrolein                 | 3.920          | 56   | 13483               | 54.718  | ug/l   | 94       |
| 14) Allyl chloride           | 4.703          | 41   | 79596               | 16.900  | ug/l # | 92       |
| 15) Acrylonitrile            | 5.414          | 53   | 64847               | 97.297  | ug/l   | 96       |
| 16) Acetone                  | 4.156          | 43   | 53730               | 96.677  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.397          | 76   | 151153              | 15.627  | ug/l # | 92       |
| 18) Methyl Acetate           | 4.714          | 43   | 32842               | 21.251  | ug/l # | 87       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 131052              | 19.715  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.956          | 84   | 73665               | 18.371  | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 66868               | 18.954  | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.355          | 45   | 186193              | 18.859  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.297          | 43   | 468475              | 88.956  | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.250          | 63   | 117631              | 18.561  | ug/l   | 97       |
| 25) 2-Butanone               | 7.208          | 43   | 79644               | 97.950  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.197          | 77   | 106471              | 19.700  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.202          | 96   | 77847               | 19.942  | ug/l   | 87       |
| 28) Bromochloromethane       | 7.544          | 49   | 36457               | 16.698  | ug/l # | 69       |
| 29) Tetrahydrofuran          | 7.555          | 42   | 48896               | 92.999  | ug/l   | 93       |
| 30) Chloroform               | 7.697          | 83   | 133537              | 20.183  | ug/l   | 99       |
| 31) Cyclohexane              | 7.979          | 56   | 96989               | 17.297  | ug/l # | 84       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 117875              | 20.370  | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 91744               | 19.040  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.285          | 43   | 35804               | 18.812  | ug/l # | 90       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 103820              | 21.256  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.349          | 83   | 100596              | 18.733  | ug/l   | 94       |
| 40) Benzene                  | 8.344          | 78   | 276569              | 19.916  | ug/l   | 100      |

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 Response via : Initial Calibration

Supervised By :Mahesh  
 Dadoda  
 06/08/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |     |
|-------------------------------|--------|------|----------|---------|-------|----------|-----|
| 41) Methacrylonitrile         | 7.514  | 41   | 20800    | 18.757  | ug/l  | #        | 89  |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 78802    | 20.394  | ug/l  |          | 95  |
| 43) Isopropyl Acetate         | 8.444  | 43   | 67421    | 19.165  | ug/l  | #        | 87  |
| 44) Trichloroethene           | 9.102  | 130  | 75055    | 20.268  | ug/l  |          | 99  |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 68649    | 19.629  | ug/l  |          | 91  |
| 46) Dibromomethane            | 9.467  | 93   | 38293    | 19.937  | ug/l  |          | 93  |
| 47) Bromodichloromethane      | 9.655  | 83   | 103753   | 21.111  | ug/l  | #        | 95  |
| 48) Methyl methacrylate       | 9.449  | 41   | 30377    | 17.163  | ug/l  | #        | 75  |
| 49) 1,4-Dioxane               | 9.449  | 88   | 8044     | 405.533 | ug/l  |          | 96  |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 181277   | 99.213  | ug/l  |          | 94  |
| 52) Toluene                   | 10.396 | 92   | 183525   | 20.914  | ug/l  |          | 96  |
| 53) t-1,3-Dichloropropene     | 10.608 | 75   | 88938    | 20.031  | ug/l  |          | 98  |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 107494   | 20.231  | ug/l  | #        | 87  |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 55497    | 21.367  | ug/l  |          | 97  |
| 56) Ethyl methacrylate        | 10.649 | 69   | 56403    | 19.531  | ug/l  |          | 86  |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 92077    | 21.128  | ug/l  |          | 98  |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 134504   | 111.176 | ug/l  |          | 93  |
| 59) 2-Hexanone                | 10.973 | 43   | 120895   | 100.360 | ug/l  |          | 93  |
| 60) Dibromochloromethane      | 11.132 | 129  | 70362    | 21.725  | ug/l  |          | 98  |
| 61) 1,2-Dibromoethane         | 11.232 | 107  | 49763    | 20.050  | ug/l  |          | 95  |
| 64) Tetrachloroethene         | 10.867 | 164  | 63664    | 20.829  | ug/l  |          | 94  |
| 65) Chlorobenzene             | 11.661 | 112  | 197050   | 20.583  | ug/l  |          | 98  |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 76275    | 21.483  | ug/l  |          | 99  |
| 67) Ethyl Benzene             | 11.732 | 91   | 339671   | 20.212  | ug/l  |          | 97  |
| 68) m/p-Xylenes               | 11.843 | 106  | 276291   | 42.317  | ug/l  |          | 96  |
| 69) o-Xylene                  | 12.167 | 106  | 123521   | 20.594  | ug/l  |          | 94  |
| 70) Styrene                   | 12.185 | 104  | 216005   | 20.932  | ug/l  |          | 97  |
| 71) Bromoform                 | 12.349 | 173  | 41030    | 22.454  | ug/l  | #        | 100 |
| 73) Isopropylbenzene          | 12.467 | 105  | 329008   | 18.693  | ug/l  |          | 99  |
| 74) N-amyl acetate            | 12.273 | 43   | 66734    | 17.381  | ug/l  | #        | 91  |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 62739    | 19.328  | ug/l  |          | 97  |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 44080m   | 18.197  | ug/l  |          |     |
| 77) Bromobenzene              | 12.749 | 156  | 82499    | 19.912  | ug/l  |          | 88  |
| 78) n-propylbenzene           | 12.808 | 91   | 419012   | 18.964  | ug/l  |          | 99  |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 237424   | 18.610  | ug/l  |          | 95  |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 290526   | 19.486  | ug/l  |          | 99  |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 19036    | 18.866  | ug/l  |          | 85  |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 263086   | 19.674  | ug/l  |          | 98  |
| 83) tert-Butylbenzene         | 13.208 | 119  | 243766   | 19.400  | ug/l  |          | 95  |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 291926   | 19.820  | ug/l  |          | 99  |
| 85) sec-Butylbenzene          | 13.384 | 105  | 368641   | 19.214  | ug/l  |          | 99  |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 311446   | 19.914  | ug/l  |          | 100 |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 169450   | 20.291  | ug/l  |          | 98  |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 168992   | 20.047  | ug/l  |          | 99  |
| 89) n-Butylbenzene            | 13.826 | 91   | 280286   | 18.809  | ug/l  |          | 98  |
| 90) Hexachloroethane          | 14.096 | 117  | 63272    | 19.552  | ug/l  |          | 97  |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 146806   | 20.318  | ug/l  |          | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.484 | 75   | 9688     | 19.489  | ug/l  |          | 89  |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 83307    | 20.308  | ug/l  |          | 99  |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 46036    | 19.915  | ug/l  |          | 100 |
| 95) Naphthalene               | 15.384 | 128  | 139323   | 19.565  | ug/l  |          | 99  |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 71672    | 19.708  | 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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