

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120720\  
 Data File : VY003668.D  
 Acq On : 07 Dec 2020 12:42  
 Operator : SY/MD  
 Sample : VSTD10034  
 Misc : 5.00G/10ML/MSVOA Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD100345

Quant Time: Dec 07 12:52:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL120720SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 07 12:29:31 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 252046   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 238420   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 121915   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.25  | 65  | 225422  | 73.37  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.77  | 69  | 193213  | 80.12  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 3.86  | 63  | 508523  | 81.79  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 6.91  | 46  | 270119  | 198.71 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.49  | 84  | 547942  | 89.57  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.15  | 65  | 306440  | 92.28  | ug/L | 0.00 |
| 32) Benzene-d6                 | 8.12  | 84  | 1132677 | 87.92  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 9.12  | 67  | 351521  | 89.59  | ug/L | 0.00 |
| 41) Toluene-d8                 | 10.18 | 98  | 1038483 | 90.32  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.44 | 79  | 175147  | 95.23  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 10.79 | 63  | 230496  | 215.15 | ug/L | 0.00 |
| 56) 1,1,2,2-Tetrachloroethane- | 12.56 | 84  | 332189  | 84.36  | ug/L | 0.00 |
| 66) 1,2-Dichlorobenzene-d4     | 13.72 | 152 | 391532  | 94.48  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |         |         |      | Qvalue |
|--------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.91  | 85  | 258527  | 89.594  | ug/L | 99     |
| 3) Chloromethane               | 2.12  | 50  | 283121  | 90.397  | ug/L | 99     |
| 5) Vinyl chloride              | 2.26  | 62  | 303421  | 91.147  | ug/L | 99     |
| 6) Bromomethane                | 2.65  | 94  | 198621  | 94.358  | ug/L | 95     |
| 8) Chloroethane                | 2.80  | 64  | 185439  | 88.453  | ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.14  | 101 | 461016  | 90.443  | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.91  | 101 | 300414  | 88.052  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 3.88  | 96  | 292742  | 90.409  | ug/L | 95     |
| 13) Acetone                    | 3.96  | 43  | 162502  | 164.908 | ug/L | 97     |
| 14) Carbon disulfide           | 4.20  | 76  | 947949  | 89.317  | ug/L | 99     |
| 15) Methyl Acetate             | 4.49  | 43  | 215272  | 89.344  | ug/L | 99     |
| 16) Methylene chloride         | 4.73  | 84  | 327533  | 77.666  | ug/L | 97     |
| 17) trans-1,2-Dichloroethene   | 5.23  | 96  | 318139  | 89.464  | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 5.23  | 73  | 858057  | 97.870  | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 6.03  | 63  | 537186  | 90.029  | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 7.00  | 96  | 351379  | 93.316  | ug/L | 100    |
| 22) 2-Butanone                 | 7.00  | 43  | 281200  | 167.946 | ug/L | 99     |
| 23) Bromochloromethane         | 7.35  | 128 | 173517  | 94.635  | ug/L | 98     |
| 25) Chloroform                 | 7.51  | 83  | 552152  | 91.577  | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 8.25  | 62  | 366038  | 91.986  | ug/L | 99     |
| 29) Cyclohexane                | 7.80  | 56  | 516279  | 92.846  | ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 7.71  | 97  | 486278  | 90.891  | ug/L | 98     |
| 31) Carbon tetrachloride       | 7.91  | 117 | 435438  | 90.223  | ug/L | 99     |
| 33) Benzene                    | 8.17  | 78  | 1298715 | 90.239  | ug/L | 100    |
| 34) Trichloroethene            | 8.94  | 95  | 353011  | 96.222  | ug/L | 97     |
| 35) Methylcyclohexane          | 9.19  | 83  | 576634  | 93.823  | ug/L | 99     |
| 37) 1,2-Dichloropropane        | 9.22  | 63  | 328521  | 90.085  | ug/L | 99     |
| 38) Bromodichloromethane       | 9.50  | 83  | 424021  | 92.063  | ug/L | 97     |
| 39) cis-1,3-Dichloropropene    | 9.93  | 75  | 546294  | 96.651  | ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 10.08 | 43  | 623515  | 193.294 | ug/L | 99     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| -----                          |       |      |          |         |       |          |
| 42) Toluene                    | 10.25 | 91   | 1418988  | 93.507  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 10.47 | 75   | 501496   | 95.883  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 10.65 | 97   | 285954   | 92.616  | ug/L  | 99       |
| 46) Tetrachloroethene          | 10.72 | 164  | 279192   | 90.435  | ug/L  | 98       |
| 48) 2-Hexanone                 | 10.83 | 43   | 447356   | 192.553 | ug/L  | 99       |
| 49) Dibromochloromethane       | 10.98 | 129  | 340516   | 95.324  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 11.09 | 107  | 282101   | 94.243  | ug/L  | 96       |
| 51) Chlorobenzene              | 11.51 | 112  | 913315   | 93.036  | ug/L  | 97       |
| 52) Ethylbenzene               | 11.59 | 91   | 1556241  | 95.512  | ug/L  | 99       |
| 53) m,p-Xylene                 | 11.70 | 106  | 601135   | 94.178  | ug/L  | 97       |
| 54) o-Xylene                   | 12.03 | 106  | 577659   | 95.473  | ug/L  | 99       |
| 55) Styrene                    | 12.04 | 104  | 1009227  | 97.735  | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 315281   | 79.583  | ug/L  | 98       |
| 59) Bromoform                  | 12.21 | 173  | 237175   | 99.874  | ug/L  | 98       |
| 60) Isopropylbenzene           | 12.33 | 105  | 1529926  | 99.014  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane     | 12.64 | 75   | 272507   | 94.426  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 1226921  | 100.038 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 1207409  | 99.467  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene        | 13.37 | 146  | 708663   | 94.456  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene        | 13.45 | 146  | 703587   | 92.328  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene        | 13.74 | 146  | 653096   | 92.528  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropropan | 14.35 | 75   | 61047    | 91.686  | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene     | 14.50 | 180  | 489341   | 92.595  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene     | 15.01 | 180  | 436452   | 97.030  | ug/L  | 99       |
| 71) Naphthalene                | 15.23 | 128  | 994471   | 101.501 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 393284   | 95.429  | ug/L  | 99       |
| -----                          |       |      |          |         |       |          |

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

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