

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120820\  
 Data File : VY003689.D  
 Acq On : 08 Dec 2020 20:31  
 Operator : SY/MD  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02589

Quant Time: Dec 09 02:01:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM120420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 09 01:58:23 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 222317   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 215782   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 112826   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.25   | 65    | 78603    | 25.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.00% |
| 7) Chloroethane-d5             | 2.77   | 69    | 60642    | 25.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.28% |
| 10) 1,1-Dichloroethene-d2      | 3.87   | 63    | 150009   | 25.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 101.40% |
| 20) 2-Butanone-d5              | 6.90   | 46    | 48168    | 42.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 85.96%  |
| 24) Chloroform-d               | 7.49   | 84    | 151270   | 26.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 105.76% |
| 26) 1,2-Dichloroethane-d4      | 8.15   | 65    | 85394    | 26.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 106.12% |
| 29) Benzene-d6                 | 8.12   | 84    | 325693   | 26.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 104.28% |
| 33) 1,2-Dichloropropane-d6     | 9.12   | 67    | 96365    | 26.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 104.28% |
| 37) Toluene-d8                 | 10.18  | 98    | 299667   | 26.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 107.04% |
| 38) trans-1,3-Dichloropropene- | 10.44  | 79    | 47955    | 27.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 108.56% |
| 39) 2-Hexanone-d5              | 10.79  | 63    | 42307    | 45.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 91.36%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.56  | 84    | 88693    | 26.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 107.72% |
| 61) 1,2-Dichlorobenzene-d4     | 13.72  | 152   | 114355   | 27.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 111.60% |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.91 | 85  | 64153  | 25.677 ug/L | 100    |
| 3) Chloromethane               | 2.12 | 50  | 68995  | 25.446 ug/L | 96     |
| 5) Vinyl chloride              | 2.26 | 62  | 72474  | 25.278 ug/L | 100    |
| 6) Bromomethane                | 2.66 | 94  | 47008  | 25.357 ug/L | 98     |
| 8) Chloroethane                | 2.80 | 64  | 45669  | 26.161 ug/L | 91     |
| 9) Trichlorofluoromethane      | 3.14 | 101 | 112028 | 25.521 ug/L | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 3.91 | 101 | 74563  | 26.424 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 3.88 | 96  | 70098  | 26.347 ug/L | 94     |
| 13) Acetone                    | 3.96 | 43  | 36241  | 44.110 ug/L | 97     |
| 14) Carbon disulfide           | 4.20 | 76  | 227512 | 25.656 ug/L | 99     |
| 15) Methyl Acetate             | 4.49 | 43  | 48188  | 23.310 ug/L | 98     |
| 16) Methylene chloride         | 4.73 | 84  | 86935  | 22.270 ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 5.23 | 73  | 198135 | 26.272 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.23 | 96  | 77833  | 25.982 ug/L | 95     |
| 19) 1,1-Dichloroethane         | 6.03 | 63  | 131401 | 26.128 ug/L | 99     |
| 21) 2-Butanone                 | 7.00 | 43  | 63169  | 43.542 ug/L | 96     |
| 22) cis-1,2-Dichloroethene     | 7.00 | 96  | 84736  | 26.542 ug/L | 96     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.35  | 128  | 42602    | 26.732 | ug/L  | 94       |
| 25) Chloroform                  | 7.51  | 83   | 134983   | 26.514 | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 8.25  | 62   | 90448    | 26.266 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.80  | 56   | 119337   | 25.670 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.71  | 97   | 118572   | 25.778 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 7.91  | 117  | 105841   | 25.922 | ug/L  | 97       |
| 34) Benzene                     | 8.17  | 78   | 323878   | 26.238 | ug/L  | 100      |
| 35) Trichloroethene             | 8.94  | 95   | 84153    | 24.831 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.19  | 83   | 136614   | 26.304 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.22  | 63   | 81168    | 26.218 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.50  | 83   | 103918   | 26.419 | ug/L  | 97       |
| 42) cis-1,3-Dichloropropene     | 9.93  | 75   | 128965   | 26.465 | ug/L  | 96       |
| 43) 4-Methyl-2-pentanone        | 10.08 | 43   | 136725   | 47.017 | ug/L  | 97       |
| 44) Toluene                     | 10.25 | 91   | 351331   | 26.982 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.47 | 75   | 120668   | 26.865 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane       | 10.65 | 97   | 70384    | 26.369 | ug/L  | 97       |
| 47) Tetrachloroethene           | 10.72 | 164  | 68761    | 26.053 | ug/L  | 96       |
| 49) 2-Hexanone                  | 10.83 | 43   | 97954    | 47.930 | ug/L  | 98       |
| 50) Dibromochloromethane        | 10.98 | 129  | 83881    | 26.853 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.09 | 107  | 66972    | 25.931 | ug/L  | 96       |
| 52) Chlorobenzene               | 11.51 | 112  | 229389   | 26.769 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.59 | 91   | 382639   | 26.926 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.70 | 106  | 149975   | 27.358 | ug/L  | 100      |
| 55) o-xylene                    | 12.03 | 106  | 144570   | 27.488 | ug/L  | 99       |
| 56) Styrene                     | 12.04 | 104  | 252290   | 28.027 | ug/L  | 97       |
| 57) Isopropylbenzene            | 12.33 | 105  | 381436   | 27.740 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.58 | 83   | 81235    | 28.387 | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane      | 12.64 | 75   | 65372    | 25.551 | ug/L  | 99       |
| 62) Bromoform                   | 12.21 | 173  | 57621    | 27.054 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.37 | 146  | 185881   | 27.704 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.45 | 146  | 186233   | 27.303 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.74 | 146  | 171883   | 27.923 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.35 | 75   | 14497    | 25.281 | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 14.50 | 180  | 125698   | 26.499 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.01 | 180  | 105957   | 26.184 | ug/L  | 99       |
| 69) Naphthalene                 | 15.24 | 128  | 221554   | 26.104 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.42 | 180  | 98473    | 26.640 | ug/L  | 97       |

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

