

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\  
 Data File : VV009154.D  
 Acq On : 04 Jan 2019 10:33  
 Operator : SY/MD  
 Sample : VSTD2.562  
 Misc : 5.00 G/10ML/MSVOA V/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.562

Manual Integrations  
 APPROVED

MMDadoda  
 1/7/2019 11:59:53 PM

Quant Time: Jan 05 04:30:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jan 05 04:20:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 168999   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 154764   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 72978    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 4073  | 3.52 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 3207  | 2.86 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 12110 | 3.13 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.97  | 46  | 4151m | 5.18 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 10232 | 2.88 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 5374  | 2.82 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 20118 | 2.92 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 5367  | 2.71 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 18988 | 2.92 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.67  | 79  | 2619  | 2.79 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.15  | 63  | 2490  | 5.34 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 6200  | 2.85 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 7520  | 3.05 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 8046  | 2.962 ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50  | 5777  | 3.140 ug/L   | 90     |
| 5) Vinyl chloride              | 1.32 | 62  | 5885  | 2.987 ug/L   | 99     |
| 6) Bromomethane                | 1.54 | 94  | 3482  | 2.509 ug/L   | 100    |
| 8) Chloroethane                | 1.60 | 64  | 3476  | 2.863 ug/L   | 92     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 11720 | 3.245 ug/L   | 97     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 6903  | 2.870 ug/L   | 93     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 5961  | 2.858 ug/L   | 85     |
| 13) Acetone                    | 2.22 | 43  | 8059  | 6.993 ug/L   | 98     |
| 14) Carbon disulfide           | 2.32 | 76  | 17477 | 2.932 ug/L   | 98     |
| 15) Methyl Acetate             | 2.47 | 43  | 4072  | 2.855 ug/L   | 100    |
| 16) Methylene chloride         | 2.54 | 84  | 19037 | 7.540 ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 12746 | 2.494 ug/L # | 86     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 6043  | 2.733 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 9731  | 2.651 ug/L   | 97     |
| 21) 2-Butanone                 | 4.05 | 43  | 4810m | 4.538 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 6407  | 2.711 ug/L   | 91     |
| 23) Bromochloromethane         | 4.30 | 128 | 2851m | 2.564 ug/L   |        |
| 25) Chloroform                 | 4.43 | 83  | 10168 | 2.601 ug/L # | 62     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 6264  | 2.385 ug/L # | 80     |
| 30) Cyclohexane                | 4.73 | 56  | 9293  | 2.709 ug/L # | 61     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 9783  | 2.600 ug/L   | 98     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 9132  | 2.652 ug/L   | 99     |
| 34) Benzene                    | 5.15 | 78  | 22223 | 2.671 ug/L   | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 6688  | 2.790 ug/L   | 98     |
| 36) Methylcyclohexane          | 6.17 | 83  | 11151 | 2.784 ug/L   | 93     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 5566  | 2.776 ug/L # | 95     |
| 41) Bromodichloromethane       | 6.56 | 83  | 7194  | 2.617 ug/L   | 95     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 7852  | 2.471 ug/L   | 98     |
| 43) 4-Methyl-2-pentanone       | 7.29 | 43  | 8764  | 4.585 ug/L   | 95     |

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 Misc : 5.00 G/10ML/MSVOA V/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.562

Manual Integrations  
 APPROVED

MMDadoda  
 1/7/2019 11:59:53 PM

Quant Time: Jan 05 04:30:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jan 05 04:20:20 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 44) Toluene                     | 7.43  | 91   | 24115    | 2.688 | ug/L   | 98       |
| 45) trans-1,3-Dichloropropene   | 7.70  | 75   | 6839     | 2.458 | ug/L   | 97       |
| 46) 1,1,2-Trichloroethane       | 7.88  | 97   | 4555     | 2.570 | ug/L   | 94       |
| 47) Tetrachloroethene           | 8.02  | 164  | 5621     | 2.707 | ug/L   | 97       |
| 49) 2-Hexanone                  | 8.20  | 43   | 5629     | 4.001 | ug/L   | 94       |
| 50) Dibromochloromethane        | 8.29  | 129  | 5371     | 2.467 | ug/L   | 96       |
| 51) 1,2-Dibromoethane           | 8.40  | 107  | 4505     | 2.431 | ug/L # | 95       |
| 52) Chlorobenzene               | 8.93  | 112  | 15942    | 2.590 | ug/L   | 97       |
| 53) Ethylbenzene                | 9.06  | 91   | 25663    | 2.530 | ug/L   | 98       |
| 54) m,p-Xylene                  | 9.19  | 106  | 9773     | 2.473 | ug/L   | 99       |
| 55) o-xylene                    | 9.59  | 106  | 8681     | 2.375 | ug/L   | 99       |
| 56) Styrene                     | 9.61  | 104  | 13767    | 2.233 | ug/L   | 99       |
| 57) Isopropylbenzene            | 9.98  | 105  | 25453    | 2.510 | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 5714     | 2.406 | ug/L   | 94       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 4756     | 2.506 | ug/L   | 96       |
| 62) Bromoform                   | 9.77  | 173  | 3524     | 2.734 | ug/L # | 96       |
| 63) 1,3-Dichlorobenzene         | 11.23 | 146  | 12404    | 2.698 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene         | 11.32 | 146  | 13470    | 2.810 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 11707    | 2.673 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 977m     | 2.149 | ug/L   |          |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 9824     | 2.649 | ug/L   | 95       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 6876     | 2.278 | ug/L   | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 8200     | 1.334 | ug/L   | 96       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 5679     | 2.050 | ug/L   | 97       |
| -----                           |       |      |          |       |        |          |

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

