

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042219\  
 Data File : VV010411.D  
 Acq On : 22 Apr 2019 13:07  
 Operator : SY/MD  
 Sample : VSTD00578  
 Misc : 5.00G/10mL/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00578

Manual Integrations  
 APPROVED

MMDadoda  
 4/25/2019 9:20:39 AM

Quant Time: Apr 22 14:10:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM042219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Apr 22 14:00:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 502323   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 483979   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 245836   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |      |      |
|--------------------------------|-------|-----|--------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 38704  | 6.07 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.57  | 69  | 29921  | 5.58 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.12  | 63  | 73276  | 4.76 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.94  | 46  | 14621m | 7.36 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 61405  | 4.65 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 39019  | 5.01 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 117966 | 4.76 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.11  | 67  | 33966  | 4.68 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 117441 | 4.93 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 14908  | 4.18 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.13  | 63  | 11254  | 6.97 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 29274  | 4.04 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 46060  | 4.77 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 42073  | 5.522 ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50  | 34656  | 5.234 ug/L   | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 41373  | 5.981 ug/L   | 98     |
| 6) Bromomethane                | 1.51 | 94  | 19490  | 4.405 ug/L   | 98     |
| 8) Chloroethane                | 1.59 | 64  | 23686  | 5.372 ug/L   | 100    |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 68478  | 4.820 ug/L   | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 39447  | 5.271 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 34847  | 5.340 ug/L   | 94     |
| 13) Acetone                    | 2.19 | 43  | 20032  | 9.556 ug/L   | 97     |
| 14) Carbon disulfide           | 2.31 | 76  | 79635  | 4.947 ug/L   | 96     |
| 15) Methyl Acetate             | 2.46 | 43  | 12741  | 3.723 ug/L   | 94     |
| 16) Methylene chloride         | 2.53 | 84  | 41547  | 5.178 ug/L   | 95     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 77491  | 4.931 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 30556  | 4.936 ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 52641  | 4.978 ug/L   | 98     |
| 21) 2-Butanone                 | 4.02 | 43  | 17792  | 7.829 ug/L   | 91     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 32485  | 4.607 ug/L   | 95     |
| 23) Bromochloromethane         | 4.29 | 128 | 15980m | 4.528 ug/L   |        |
| 25) Chloroform                 | 4.42 | 83  | 63730  | 5.172 ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 43963  | 4.993 ug/L   | 99     |
| 30) Cyclohexane                | 4.72 | 56  | 49632  | 5.595 ug/L # | 89     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 55498  | 5.201 ug/L   | 98     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 51929  | 5.158 ug/L   | 98     |
| 34) Benzene                    | 5.14 | 78  | 120527 | 5.103 ug/L   | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 35476  | 5.077 ug/L   | 98     |
| 36) Methylcyclohexane          | 6.17 | 83  | 54269  | 5.334 ug/L   | 99     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 27281  | 4.504 ug/L # | 97     |
| 41) Bromodichloromethane       | 6.55 | 83  | 42818  | 5.037 ug/L   | 96     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 43360  | 4.746 ug/L   | 95     |
| 43) 4-Methyl-2-pentanone       | 7.27 | 43  | 40487  | 8.555 ug/L   | 96     |

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 ALS Vial : 1 Sample Multiplier: 1

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 MSVOA\_V  
 ClientSampleId :  
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 4/25/2019 9:20:39 AM

Quant Time: Apr 22 14:10:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM042219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Apr 22 14:00:39 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| -----                          |       |      |          |       |       |          |
| 44) Toluene                    | 7.43  | 91   | 132339   | 4.970 | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 38116    | 4.475 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 23951    | 4.389 | ug/L  | 95       |
| 47) Tetrachloroethene          | 8.02  | 164  | 30609    | 4.909 | ug/L  | 93       |
| 49) 2-Hexanone                 | 8.18  | 43   | 25760    | 7.776 | ug/L  | 93       |
| 50) Dibromochloromethane       | 8.29  | 129  | 30790    | 4.595 | ug/L  | 96       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 25827    | 4.772 | ug/L  | 99       |
| 52) Chlorobenzene              | 8.93  | 112  | 92702    | 5.004 | ug/L  | 95       |
| 53) Ethylbenzene               | 9.05  | 91   | 154707   | 5.114 | ug/L  | 99       |
| 54) m,p-Xylene                 | 9.18  | 106  | 57427    | 4.904 | ug/L  | 95       |
| 55) o-xylene                   | 9.59  | 106  | 59219    | 5.244 | ug/L  | 96       |
| 56) Styrene                    | 9.60  | 104  | 92431    | 4.793 | ug/L  | 98       |
| 57) Isopropylbenzene           | 9.97  | 105  | 154582   | 5.137 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 29262    | 4.147 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 22611    | 4.425 | ug/L  | 98       |
| 62) Bromoform                  | 9.78  | 173  | 17350    | 4.565 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 74698    | 4.982 | ug/L  | 95       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 76969    | 4.979 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 70063    | 4.840 | ug/L  | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 4545     | 3.929 | ug/L  | 89       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 57440    | 4.606 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 39505    | 3.964 | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 56263    | 3.057 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 36920    | 3.813 | ug/L  | 97       |
| -----                          |       |      |          |       |       |          |

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

