

Data Path : W:\HPCHEM1\MSVOA V\DATA\VV053118\  
 Data File : VV006116.D  
 Acq On : 31 May 2018 19:36  
 Operator : SY/MD  
 Sample : VSTD00563  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00563

Manual Integrations  
 APPROVED

MMDadoda  
 6/4/2018 10:48:26 AM

Quant Time: Jun 01 09:37:06 2018  
 Quant Method : W:\HPCHEM1\MSVOA V\METHOD\SOMVTR053118WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 01 07:29:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 298002   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 265822   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 127418   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 81961  | 3.63  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 64822  | 3.92  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 160874 | 3.53  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.96  | 46  | 157616 | 33.56 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.41  | 84  | 158626 | 4.02  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 75833  | 4.07  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 320228 | 4.31  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 95889  | 4.16  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.37  | 98  | 300504 | 4.36  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 42049  | 4.96  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.14  | 63  | 190696 | 49.96 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 69744  | 4.40  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 110349 | 4.48  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |       |      | Qvalue |
|--------------------------------|------|-----|---------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 115723m | 3.43  | ug/L |        |
| 3) Chloromethane               | 1.26 | 50  | 94818   | 2.73  | ug/L | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 117376  | 3.07  | ug/L | 100    |
| 6) Bromomethane                | 1.54 | 94  | 60945   | 3.06  | ug/L | 100    |
| 8) Chloroethane                | 1.60 | 64  | 66185   | 3.12  | ug/L | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 155004  | 3.21  | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 95752   | 3.34  | ug/L | 100    |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 88213   | 3.20  | ug/L | 100    |
| 13) Acetone                    | 2.20 | 43  | 87011   | 19.82 | ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 294631  | 3.35  | ug/L | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 25259   | 2.19  | ug/L | 100    |
| 16) Methylene chloride         | 2.54 | 84  | 89890   | 2.89  | ug/L | 100    |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 220851  | 3.29  | ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 97576   | 3.23  | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 160968  | 2.89  | ug/L | 100    |
| 21) 2-Butanone                 | 4.04 | 43  | 165645  | 23.83 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 104251  | 3.34  | ug/L | 100    |
| 23) Bromochloromethane         | 4.30 | 128 | 42172   | 3.25  | ug/L | 100    |
| 25) Chloroform                 | 4.44 | 83  | 166077  | 3.10  | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 96161   | 2.99  | ug/L | 100    |
| 29) 1,1,1-Trichloroethane      | 4.67 | 97  | 154126  | 3.56  | ug/L | 100    |
| 30) Cyclohexane                | 4.73 | 56  | 156093  | 3.54  | ug/L | 100    |
| 31) Carbon tetrachloride       | 4.88 | 117 | 134255  | 3.47  | ug/L | 100    |
| 33) Benzene                    | 5.15 | 78  | 379786  | 3.33  | ug/L | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 104018  | 3.40  | ug/L | 100    |
| 35) Methylcyclohexane          | 6.18 | 83  | 178722  | 3.93  | ug/L | 100    |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 90577   | 3.04  | ug/L | 100    |
| 38) Bromodichloromethane       | 6.56 | 83  | 123411  | 3.63  | ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 7.08 | 75  | 149062  | 3.80  | ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 474044  | 29.88 | ug/L | 100    |

Data Path : W:\HPCHEM1\MSVOA V\DATA\VV053118\  
 Data File : VV006116.D  
 Acq On : 31 May 2018 19:36  
 Operator : SY/MD  
 Sample : VSTD00563  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00563

Manual Integrations  
 APPROVED

MMDadoda  
 6/4/2018 10:48:26 AM

Quant Time: Jun 01 09:37:06 2018  
 Quant Method : W:\HPCHEM1\MSVOA V\METHOD\SOMVTR053118WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 01 07:29:00 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) Toluene                    | 7.44  | 91   | 418026   | 3.53  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 119416   | 3.77  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 64012    | 3.36  | ug/L  | 100      |
| 47) Tetrachloroethene          | 8.03  | 164  | 84114    | 3.42  | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.19  | 43   | 337003   | 29.91 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.30  | 129  | 80434    | 3.63  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 59976    | 3.41  | ug/L  | 100      |
| 51) Chlorobenzene              | 8.93  | 112  | 270676   | 3.51  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.06  | 91   | 469836   | 3.75  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.19  | 106  | 180743   | 3.80  | ug/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 180110   | 3.90  | ug/L  | 100      |
| 55) Styrene                    | 9.61  | 104  | 296266   | 3.85  | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.98  | 105  | 473781   | 3.94  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.30 | 83   | 72820    | 3.29  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.33 | 75   | 51875    | 3.17  | ug/L  | 100      |
| 61) Bromoform                  | 9.78  | 173  | 45013    | 3.65  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 207787   | 3.63  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 204294   | 3.50  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 193090   | 3.49  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 12949    | 4.05  | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 162317   | 3.58  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 128391   | 3.66  | ug/L  | 100      |
| 69) Naphthalene                | 13.56 | 128  | 221348   | 4.26  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 117586   | 3.58  | ug/L  | 100      |

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

Data Path : W:\HPCHEM1\MSVOA V\DATA\VV053118\  
Data File : VV006116.D  
Acq On : 31 May 2018 19:36  
Operator : SY/MD  
Sample : VSTD00563  
Misc : 25 mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD00563

## Manual Integrations APPROVED

MMDadoda  
6/4/2018 10:48:26 AM

Quant Time: Jun 01 09:37:06 2018  
Quant Method : W:\HPCHEM1\MSVOA V\METHOD\SOMVTR053118WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Jun 01 07:29:00 2018  
Response via : Initial Calibration

