

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV020720\  
 Data File : VV014524.D  
 Acq On : 06 Feb 2020 18:02  
 Operator : SY/MD  
 Sample : VSTD00562  
 Misc : 5.00G/10ML/MSVOA V/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00562

Quant Time: Feb 07 03:21:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM020720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Feb 07 03:18:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 366702   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 349550   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 175382   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 17096 | 3.58  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 12532 | 3.60  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 27778 | 3.33  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.94  | 46  | 16091 | 7.04  | ug/L | 0.01 |
| 24) Chloroform-d               | 4.40  | 84  | 40788 | 4.08  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 24981 | 4.29  | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 93275 | 4.61  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.11  | 67  | 28422 | 4.60  | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.35  | 98  | 86442 | 4.75  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 13471 | 4.88  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.13  | 63  | 13430 | 10.05 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.25 | 84  | 26906 | 4.72  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 32691 | 4.79  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |       | Qvalue   |
|--------------------------------|------|-----|-------|-------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 32770 | 5.477 | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 30402 | 5.387 | ug/L 98  |
| 5) Vinyl chloride              | 1.32 | 62  | 22458 | 4.148 | ug/L 98  |
| 6) Bromomethane                | 1.52 | 94  | 10629 | 4.133 | ug/L 96  |
| 8) Chloroethane                | 1.60 | 64  | 10268 | 3.433 | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 31798 | 4.173 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 15763 | 3.602 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 13967 | 3.405 | ug/L 97  |
| 13) Acetone                    | 2.18 | 43  | 15465 | 5.805 | ug/L 94  |
| 14) Carbon disulfide           | 2.32 | 76  | 80124 | 4.742 | ug/L 99  |
| 15) Methyl Acetate             | 2.46 | 43  | 14337 | 3.574 | ug/L 100 |
| 16) Methylene chloride         | 2.53 | 84  | 35016 | 5.115 | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 65968 | 4.523 | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 27129 | 4.650 | ug/L 96  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 43953 | 4.179 | ug/L 98  |
| 21) 2-Butanone                 | 4.02 | 43  | 17396 | 6.159 | ug/L 95  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 28556 | 4.599 | ug/L 98  |
| 23) Bromochloromethane         | 4.30 | 128 | 12923 | 4.386 | ug/L 97  |
| 25) Chloroform                 | 4.42 | 83  | 49696 | 4.508 | ug/L 99  |
| 27) 1,2-Dichloroethane         | 5.17 | 62  | 30676 | 4.103 | ug/L 100 |
| 30) Cyclohexane                | 4.72 | 56  | 44018 | 4.725 | ug/L 99  |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 37717 | 4.291 | ug/L 97  |
| 32) Carbon tetrachloride       | 4.87 | 117 | 34153 | 4.393 | ug/L 98  |
| 34) Benzene                    | 5.14 | 78  | 99743 | 4.384 | ug/L 100 |
| 35) Trichloroethene            | 5.96 | 95  | 27664 | 4.518 | ug/L 98  |
| 36) Methylcyclohexane          | 6.17 | 83  | 47835 | 4.955 | ug/L 98  |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 25225 | 4.393 | ug/L 100 |
| 41) Bromodichloromethane       | 6.55 | 83  | 32597 | 4.368 | ug/L 98  |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 41694 | 4.766 | ug/L 95  |
| 43) 4-Methyl-2-pentanone       | 7.26 | 43  | 38740 | 7.607 | ug/L 99  |

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 QLast Update : Fri Feb 07 03:18:50 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 44) Toluene                    | 7.43  | 91   | 111054   | 4.754 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 34175    | 4.595 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 21638    | 4.676 | ug/L   | 97       |
| 47) Tetrachloroethene          | 8.02  | 164  | 21329    | 4.190 | ug/L   | 99       |
| 49) 2-Hexanone                 | 8.18  | 43   | 27081    | 7.276 | ug/L   | 99       |
| 50) Dibromochloromethane       | 8.29  | 129  | 23456    | 4.241 | ug/L   | 98       |
| 51) 1,2-Dibromoethane          | 8.39  | 107  | 20853    | 4.363 | ug/L # | 98       |
| 52) Chlorobenzene              | 8.92  | 112  | 73941    | 4.676 | ug/L   | 99       |
| 53) Ethylbenzene               | 9.05  | 91   | 124404   | 4.832 | ug/L   | 99       |
| 54) m,p-Xylene                 | 9.18  | 106  | 46493    | 4.794 | ug/L   | 93       |
| 55) o-xylene                   | 9.58  | 106  | 46452    | 4.994 | ug/L   | 97       |
| 56) Styrene                    | 9.60  | 104  | 75221    | 4.693 | ug/L   | 96       |
| 57) Isopropylbenzene           | 9.97  | 105  | 122203   | 4.944 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 26984    | 4.510 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 20442    | 4.195 | ug/L   | 99       |
| 62) Bromoform                  | 9.77  | 173  | 13527    | 3.950 | ug/L   | 99       |
| 63) 1,3-Dichlorobenzene        | 11.22 | 146  | 58022    | 4.765 | ug/L   | 99       |
| 64) 1,4-Dichlorobenzene        | 11.31 | 146  | 58868    | 4.719 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 54413    | 4.812 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 4598     | 4.419 | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 41591    | 4.401 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.30 | 180  | 35911    | 4.384 | ug/L   | 98       |
| 69) Naphthalene                | 13.55 | 128  | 81891    | 5.060 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 32786    | 4.352 | ug/L   | 98       |
| -----                          |       |      |          |       |        |          |

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

