

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV041019\  
 Data File : VV010215.D  
 Acq On : 10 Apr 2019 14:51  
 Operator : SY/MD  
 Sample : VSTDICV025  
 Misc : 5.00G/10mL/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 07:09:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 11 07:05:16 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 0.401 | 0.397 | 1.0   | 106   | 0.00     |
| 3 T  | Chloromethane               | 0.329 | 0.327 | 0.6   | 105   | 0.00     |
| 4 S  | Vinyl Chloride-d3           | 0.288 | 0.264 | 8.3   | 105   | 0.00     |
| 5 T  | Vinyl chloride              | 0.354 | 0.341 | 3.7   | 103   | 0.00     |
| 6 T  | Bromomethane                | 0.287 | 0.318 | -10.8 | 106   | 0.00     |
| 7 S  | Chloroethane-d5             | 0.247 | 0.237 | 4.0   | 113   | 0.00     |
| 8 T  | Chloroethane                | 0.220 | 0.214 | 2.7   | 102   | 0.00     |
| 9 T  | Trichlorofluoromethane      | 0.716 | 0.688 | 3.9   | 105   | 0.00     |
| 10 S | 1,1-Dichloroethene-d2       | 0.733 | 0.684 | 6.7   | 105   | 0.00     |
| 11 T | 1,1,2-Trichloro-1,2,2-trifl | 0.383 | 0.357 | 6.8   | 103   | 0.00     |
| 12 T | 1,1-Dichloroethene          | 0.330 | 0.324 | 1.8   | 106   | 0.00     |
| 13 T | Acetone                     | 0.078 | 0.080 | -2.6  | 119   | 0.00     |
| 14 T | Carbon disulfide            | 0.797 | 0.834 | -4.6  | 105   | 0.00     |
| 15 T | Methyl Acetate              | 0.139 | 0.149 | -7.2  | 114   | 0.00     |
| 16 T | Methylene chloride          | 0.490 | 0.365 | 25.5  | 91    | 0.00     |
| 17 T | Methyl tert-butyl Ether     | 0.714 | 0.767 | -7.4  | 115   | 0.00     |
| 18 T | trans-1,2-Dichloroethene    | 0.313 | 0.320 | -2.2  | 108   | 0.00     |
| 19 T | 1,1-Dichloroethane          | 0.516 | 0.526 | -1.9  | 110   | 0.00     |
| 20 S | 2-Butanone-d5               | 0.073 | 0.085 | -16.4 | 126   | 0.00     |
| 21   | 2-Butanone                  | 0.089 | 0.100 | -12.4 | 120   | 0.00     |
| 22 T | cis-1,2-Dichloroethene      | 0.341 | 0.357 | -4.7  | 111   | 0.00     |
| 23 T | Bromochloromethane          | 0.168 | 0.178 | -6.0  | 110   | 0.00     |
| 24 S | Chloroform-d                | 0.571 | 0.565 | 1.1   | 111   | 0.00     |
| 25 T | Chloroform                  | 0.612 | 0.618 | -1.0  | 106   | 0.00     |
| 26 S | 1,2-Dichloroethane-d4       | 0.325 | 0.334 | -2.8  | 115   | 0.00     |
| 27 T | 1,2-Dichloroethane          | 0.392 | 0.415 | -5.9  | 111   | 0.00     |
| 28 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 29 S | Benzene-d6                  | 1.205 | 1.145 | 5.0   | 109   | 0.00     |
| 30 T | Cyclohexane                 | 0.468 | 0.449 | 4.1   | 107   | 0.00     |
| 31 T | 1,1,1-Trichloroethane       | 0.523 | 0.509 | 2.7   | 107   | 0.00     |
| 32 T | Carbon tetrachloride        | 0.487 | 0.471 | 3.3   | 106   | 0.00     |
| 33 S | 1,2-Dichloropropane-d6      | 0.359 | 0.342 | 4.7   | 113   | 0.00     |
| 34 T | Benzene                     | 1.267 | 1.239 | 2.2   | 106   | 0.00     |
| 35 T | Trichloroethene             | 0.366 | 0.349 | 4.6   | 103   | 0.00     |
| 36 T | Methylcyclohexane           | 0.547 | 0.533 | 2.6   | 105   | 0.00     |
| 37 S | Toluene-d8                  | 1.176 | 1.142 | 2.9   | 108   | 0.00     |
| 38 S | trans-1,3-Dichloropropene-d | 0.149 | 0.156 | -4.7  | 113   | 0.00     |
| 39 S | 2-Hexanone-d5               | 0.062 | 0.067 | -8.1  | 124   | 0.00     |
| 40 T | 1,2-Dichloropropane         | 0.310 | 0.298 | 3.9   | 110   | 0.00     |
| 41 T | Bromodichloromethane        | 0.413 | 0.421 | -1.9  | 110   | 0.00     |
| 42 T | cis-1,3-Dichloropropene     | 0.470 | 0.470 | 0.0   | 108   | 0.00     |
| 43 T | 4-Methyl-2-pentanone        | 0.201 | 0.209 | -4.0  | 113   | 0.00     |
| 44 T | Toluene                     | 1.425 | 1.411 | 1.0   | 107   | 0.00     |
| 45 T | trans-1,3-Dichloropropene   | 0.394 | 0.420 | -6.6  | 110   | 0.00     |

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|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T | 1,1,2-Trichloroethane       | 0.263 | 0.273 | -3.8  | 113   | 0.00     |
| 47 T | Tetrachloroethene           | 0.325 | 0.308 | 5.2   | 103   | 0.00     |
| 48 S | 1,1,2,2-Tetrachloroethane-d | 0.322 | 0.326 | -1.2  | 111   | 0.00     |
| 49 T | 2-Hexanone                  | 0.132 | 0.150 | -13.6 | 122   | 0.00     |
| 50 T | Dibromochloromethane        | 0.322 | 0.334 | -3.7  | 110   | 0.00     |
| 51 T | 1,2-Dibromoethane           | 0.268 | 0.276 | -3.0  | 113   | 0.00     |
| 52 T | Chlorobenzene               | 0.994 | 0.977 | 1.7   | 106   | 0.00     |
| 53 T | Ethylbenzene                | 1.571 | 1.548 | 1.5   | 104   | 0.00     |
| 54 T | m,p-Xylene                  | 0.620 | 0.612 | 1.3   | 106   | 0.00     |
| 55 T | o-xylene                    | 0.617 | 0.606 | 1.8   | 103   | 0.00     |
| 56 T | Styrene                     | 0.983 | 1.020 | -3.8  | 107   | 0.00     |
| 57 T | Isopropylbenzene            | 1.569 | 1.567 | 0.1   | 104   | 0.00     |
| 58 T | 1,1,2,2-Tetrachloroethane   | 0.325 | 0.336 | -3.4  | 110   | 0.00     |
| 59   | 1,2,3-Trichloropropane      | 0.239 | 0.249 | -4.2  | 117   | 0.00     |
| 60 I | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 61 S | 1,2-Dichlorobenzene-d4      | 0.923 | 0.946 | -2.5  | 112   | 0.00     |
| 62 T | Bromoform                   | 0.363 | 0.390 | -7.4  | 118   | 0.00     |
| 63 T | 1,3-Dichlorobenzene         | 1.550 | 1.582 | -2.1  | 106   | 0.00     |
| 64 T | 1,4-Dichlorobenzene         | 1.577 | 1.605 | -1.8  | 108   | 0.00     |
| 65 T | 1,2-Dichlorobenzene         | 1.480 | 1.506 | -1.8  | 107   | 0.00     |
| 66 T | 1,2-Dibromo-3-chloropropane | 0.084 | 0.094 | -11.9 | 118   | 0.00     |
| 67   | 1,3,5-Trichlorobenzene      | 1.149 | 1.200 | -4.4  | 107   | 0.00     |
| 68 T | 1,2,4-trichlorobenzene      | 0.787 | 0.846 | -7.5  | 111   | 0.00     |
| 69   | Naphthalene                 | 1.070 | 1.349 | -26.1 | 132   | 0.00     |
| 70 T | 1,2,3-Trichlorobenzene      | 0.730 | 0.807 | -10.5 | 112   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0