

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
 Data File : VU028860.D  
 Acq On : 21 Dec 2018 09:25  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 23:27:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 21 18:12:49 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 200%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 0.408 | 0.420 | -2.9  | 104   | 0.00     |
| 3 T  | Chloromethane               | 0.554 | 0.524 | 5.4   | 96    | 0.00     |
| 4 S  | Vinyl Chloride-d3           | 0.401 | 0.378 | 5.7   | 92    | 0.00     |
| 5 T  | Vinyl chloride              | 0.490 | 0.499 | -1.8  | 101   | 0.00     |
| 6 T  | Bromomethane                | 0.209 | 0.208 | 0.5   | 105   | 0.00     |
| 7 S  | Chloroethane-d5             | 0.310 | 0.302 | 2.6   | 97    | 0.00     |
| 8 T  | Chloroethane                | 0.280 | 0.285 | -1.8  | 100   | 0.00     |
| 9 T  | Trichlorofluoromethane      | 0.501 | 0.520 | -3.8  | 102   | 0.00     |
| 10 T | 1,1,2-Trichloro-1,2,2-trifl | 0.324 | 0.340 | -4.9  | 104   | 0.00     |
| 11 S | 1,1-Dichloroethene-d2       | 0.674 | 0.653 | 3.1   | 96    | 0.00     |
| 12 T | 1,1-Dichloroethene          | 0.321 | 0.323 | -0.6  | 101   | 0.00     |
| 13 T | Acetone                     | 0.286 | 0.318 | -11.2 | 110   | 0.00     |
| 14 T | Carbon disulfide            | 1.120 | 1.107 | 1.2   | 100   | 0.00     |
| 15 T | Methyl Acetate              | 0.446 | 0.454 | -1.8  | 102   | 0.00     |
| 16 T | Methylene chloride          | 0.395 | 0.404 | -2.3  | 103   | 0.00     |
| 17 T | trans-1,2-Dichloroethene    | 0.347 | 0.359 | -3.5  | 103   | 0.00     |
| 18 T | Methyl tert-butyl Ether     | 1.068 | 1.124 | -5.2  | 105   | 0.00     |
| 19 T | 1,1-Dichloroethane          | 0.675 | 0.696 | -3.1  | 103   | 0.00     |
| 20 T | cis-1,2-Dichloroethene      | 0.393 | 0.408 | -3.8  | 103   | 0.00     |
| 21 S | 2-Butanone-d5               | 0.281 | 0.303 | -7.8  | 101   | 0.00     |
| 22 T | 2-Butanone                  | 0.349 | 0.384 | -10.0 | 107   | 0.00     |
| 23 T | Bromochloromethane          | 0.188 | 0.192 | -2.1  | 101   | 0.00     |
| 24 S | Chloroform-d                | 0.630 | 0.644 | -2.2  | 99    | 0.00     |
| 25 T | Chloroform                  | 0.643 | 0.658 | -2.3  | 102   | 0.00     |
| 26 S | 1,2-Dichloroethane-d4       | 0.389 | 0.385 | 1.0   | 97    | 0.00     |
| 27 T | 1,2-Dichloroethane          | 0.478 | 0.494 | -3.3  | 103   | 0.00     |
| 28 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 29 T | Cyclohexane                 | 0.665 | 0.698 | -5.0  | 102   | 0.00     |
| 30 T | 1,1,1-Trichloroethane       | 0.529 | 0.541 | -2.3  | 101   | 0.00     |
| 31 T | Carbon tetrachloride        | 0.427 | 0.432 | -1.2  | 100   | 0.00     |
| 32 S | Benzene-d6                  | 1.413 | 1.444 | -2.2  | 98    | 0.00     |
| 33 T | Benzene                     | 1.592 | 1.677 | -5.3  | 103   | 0.00     |
| 34 T | Trichloroethene             | 0.384 | 0.402 | -4.7  | 104   | 0.00     |
| 35 T | Methylcyclohexane           | 0.640 | 0.694 | -8.4  | 104   | 0.00     |
| 36 S | 1,2-Dichloropropane-d6      | 0.480 | 0.493 | -2.7  | 100   | 0.00     |
| 37 T | 1,2-Dichloropropane         | 0.445 | 0.467 | -4.9  | 103   | 0.00     |
| 38 T | Bromodichloromethane        | 0.493 | 0.517 | -4.9  | 102   | 0.00     |
| 39 T | cis-1,3-Dichloropropene     | 0.634 | 0.667 | -5.2  | 103   | 0.00     |
| 40 T | 4-Methyl-2-pentanone        | 0.598 | 0.645 | -7.9  | 105   | 0.00     |
| 41 S | Toluene-d8                  | 1.280 | 1.297 | -1.3  | 96    | 0.00     |
| 42 T | Toluene                     | 1.614 | 1.730 | -7.2  | 104   | 0.00     |
| 43 S | trans-1,3-Dichloropropene-d | 0.215 | 0.219 | -1.9  | 95    | 0.00     |
| 44 T | trans-1,3-Dichloropropene   | 0.565 | 0.601 | -6.4  | 102   | 0.00     |
| 45 T | 1,1,2-Trichloroethane       | 0.380 | 0.399 | -5.0  | 104   | 0.00     |

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|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T | Tetrachloroethene           | 0.296 | 0.313 | -5.7  | 106   | 0.00     |
| 47 S | 2-Hexanone-d5               | 0.228 | 0.247 | -8.3  | 100   | 0.00     |
| 48 T | 2-Hexanone                  | 0.491 | 0.537 | -9.4  | 105   | 0.00     |
| 49 T | Dibromochloromethane        | 0.379 | 0.388 | -2.4  | 100   | 0.00     |
| 50 T | 1,2-Dibromoethane           | 0.396 | 0.420 | -6.1  | 103   | 0.00     |
| 51 T | Chlorobenzene               | 1.017 | 1.068 | -5.0  | 103   | 0.00     |
| 52 T | Ethylbenzene                | 1.734 | 1.852 | -6.8  | 104   | 0.00     |
| 53 T | m,p-Xylene                  | 0.641 | 0.696 | -8.6  | 104   | 0.00     |
| 54 T | o-xylene                    | 0.643 | 0.697 | -8.4  | 104   | 0.00     |
| 55 T | Styrene                     | 1.088 | 1.173 | -7.8  | 103   | 0.00     |
| 56 T | Isopropylbenzene            | 1.630 | 1.758 | -7.9  | 104   | 0.00     |
| 57 S | 1,1,2,2-Tetrachloroethane-d | 0.666 | 0.678 | -1.8  | 99    | 0.00     |
| 58 T | 1,1,2,2-Tetrachloroethane   | 0.691 | 0.710 | -2.7  | 102   | 0.00     |
| 59   | 1,2,3-Trichloropropane      | 0.531 | 0.546 | -2.8  | 102   | 0.00     |
| 60 I | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 61 T | Bromoform                   | 0.620 | 0.621 | -0.2  | 99    | 0.00     |
| 62 T | 1,3-Dichlorobenzene         | 1.588 | 1.664 | -4.8  | 104   | 0.00     |
| 63 T | 1,4-Dichlorobenzene         | 1.636 | 1.700 | -3.9  | 105   | 0.00     |
| 64 S | 1,2-Dichlorobenzene-d4      | 1.011 | 1.017 | -0.6  | 98    | 0.00     |
| 65 T | 1,2-Dichlorobenzene         | 1.657 | 1.738 | -4.9  | 103   | 0.00     |
| 66 T | 1,2-Dibromo-3-chloropropane | 0.286 | 0.281 | 1.7   | 98    | 0.00     |
| 67   | 1,3,5-Trichlorobenzene      | 1.171 | 1.255 | -7.2  | 105   | 0.00     |
| 68 T | 1,2,4-trichlorobenzene      | 0.981 | 1.085 | -10.6 | 108   | 0.00     |
| 69   | Naphthalene                 | 3.405 | 3.692 | -8.4  | 105   | 0.00     |
| 70 T | 1,2,3-Trichlorobenzene      | 1.057 | 1.168 | -10.5 | 108   | 0.00     |

(#) = Out of Range

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