

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv012920\  
 Data File : VY001422.D  
 Acq On : 29 Jan 2020 16:40  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 29 17:00:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 96    | -0.01    |
| 2 T   | Dichlorodifluoromethane     | 0.394 | 0.412 | -4.6  | 100   | 0.00     |
| 3 P   | Chloromethane               | 0.596 | 0.603 | -1.2  | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.621 | 0.633 | -1.9# | 99    | 0.00     |
| 5 T   | Bromomethane                | 0.418 | 0.427 | -2.2  | 103   | 0.00     |
| 6 T   | Chloroethane                | 0.397 | 0.420 | -5.8  | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.795 | 0.865 | -8.8  | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 0.336 | 0.351 | -4.5  | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.506 | 0.556 | -9.9  | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 0.668 | 0.703 | -5.2  | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.083 | 0.060 | 27.7# | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.531 | 0.565 | -6.4# | 104   | -0.01    |
| 13 T  | Acrolein                    | 0.045 | 0.039 | 13.3  | 103   | 0.00     |
| 14 T  | Allyl chloride              | 0.947 | 1.022 | -7.9  | 105   | -0.01    |
| 15 T  | Acrylonitrile               | 0.172 | 0.185 | -7.6  | 106   | -0.01    |
| 16 T  | Acetone                     | 0.157 | 0.171 | -8.9  | 111   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.670 | 1.675 | -0.3  | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 0.459 | 0.471 | -2.6  | 106   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.554 | 1.660 | -6.8  | 104   | -0.01    |
| 20 T  | Methylene Chloride          | 0.838 | 0.704 | 16.0  | 104   | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.617 | 0.639 | -3.6  | 102   | -0.01    |
| 22 T  | Diisopropyl ether           | 2.010 | 2.169 | -7.9  | 106   | -0.01    |
| 23 T  | Vinyl Acetate               | 1.305 | 1.414 | -8.4  | 105   | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 1.060 | 1.163 | -9.7  | 107   | -0.02    |
| 25 T  | 2-Butanone                  | 0.237 | 0.254 | -7.2  | 106   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.944 | 0.988 | -4.7  | 105   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.689 | 0.743 | -7.8  | 105   | -0.01    |
| 28 T  | Bromochloromethane          | 0.437 | 0.531 | -21.5 | 114   | -0.01    |
| 29 T  | Tetrahydrofuran             | 0.154 | 0.162 | -5.2  | 104   | -0.01    |
| 30 C  | Chloroform                  | 1.039 | 1.125 | -8.3# | 108   | -0.01    |
| 31 T  | Cyclohexane                 | 1.052 | 1.088 | -3.4  | 105   | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 0.877 | 0.971 | -10.7 | 108   | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.544 | 0.571 | -5.0  | 98    | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.293 | 0.304 | -3.8  | 101   | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.472 | 0.502 | -6.4  | 105   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.289 | 0.306 | -5.9  | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.421 | 0.454 | -7.8  | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.605 | 0.635 | -5.0  | 102   | 0.00     |
| 40 TM | Benzene                     | 1.416 | 1.517 | -7.1  | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.149 | 0.172 | -15.4 | 119   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.396 | 0.419 | -5.8  | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.561 | 0.612 | -9.1  | 105   | 0.00     |
| 44 TM | Trichloroethene             | 0.363 | 0.385 | -6.1  | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.358 | 0.387 | -8.1# | 106   | 0.00     |

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 VSTDCCC050

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.192 | 0.204 | -6.2  | 105   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.460 | 0.493 | -7.2  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.255 | 0.275 | -7.8  | 106   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.140 | 1.237 | -8.5  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.289 | 0.313 | -8.3  | 106   | 0.00     |
| 52 CM | Toluene                     | 0.898 | 0.957 | -6.6# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.509 | 0.549 | -7.9  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.585 | 0.630 | -7.7  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.284 | 0.301 | -6.0  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.429 | 0.465 | -8.4  | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.494 | 0.537 | -8.7  | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.148 | 0.145 | 2.0   | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.201 | 0.226 | -12.4 | 107   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.317 | 0.343 | -8.2  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.268 | 0.291 | -8.6  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.454 | 0.468 | -3.1  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.319 | 0.331 | -3.8  | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.054 | 1.124 | -6.6  | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.360 | 0.389 | -8.1  | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.942 | 2.085 | -7.4# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.769 | -6.1  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 0.698 | 0.748 | -7.2  | 105   | 0.00     |
| 70 T  | Styrene                     | 1.224 | 1.339 | -9.4  | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.215 | 0.230 | -7.0  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.945 | 4.141 | -5.0  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 1.291 | 1.416 | -9.7  | 106   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.845 | 0.921 | -9.0  | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.603 | 0.618 | -2.5  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.874 | 0.925 | -5.8  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.749 | 5.075 | -6.9  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.713 | 2.875 | -6.0  | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.293 | 3.473 | -5.5  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.318 | 0.347 | -9.1  | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.898 | 3.033 | -4.7  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.776 | 2.986 | -7.6  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.306 | 3.461 | -4.7  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.944 | 4.216 | -6.9  | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.476 | 3.649 | -5.0  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.683 | 1.771 | -5.2  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.709 | 1.792 | -4.9  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.498 | 3.743 | -7.0  | 105   | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.659 | 0.715 | -8.5 | 104   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.552 | 1.650 | -6.3 | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.146 | 0.154 | -5.5 | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.042 | 1.037 | 0.5  | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.507 | 0.517 | -2.0 | 102   | 0.00     |
| 95 T | Naphthalene                 | 2.382 | 2.534 | -6.4 | 107   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.914 | 0.927 | -1.4 | 102   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6