

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL081921\  
 Data File : VL037513.D  
 Acq On : 20 Aug 2021 8:43  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Aug 20 10:48:10 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 16 14:55:18 2021  
 QLast Update : Mon Aug 16 14:55:18 2021  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 90    | 0.02     |
| 2 T  | Dichlorodifluoromethane     | 1.605 | 1.256 | 21.7  | 82    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.915 | 1.836 | 4.1   | 97    | 0.01     |
| 4    | Chloromethane               | 0.684 | 0.693 | -1.3  | 94    | 0.02     |
| 5 T  | Vinyl Chloride              | 0.701 | 0.673 | 4.0   | 96    | 0.02     |
| 6 T  | Bromomethane                | 0.384 | 0.373 | 2.9   | 96    | 0.01     |
| 7    | Chloroethane                | 0.239 | 0.241 | -0.8  | 98    | 0.02     |
| 8 T  | Dichlorotetrafluoroethane   | 1.656 | 1.559 | 5.9   | 95    | 0.02     |
| 9 T  | Propene                     | 0.685 | 0.687 | -0.3  | 100   | 0.01     |
| 10 T | Heptane                     | 1.577 | 1.685 | -6.8  | 101   | 0.02     |
| 11 T | Trichlorofluoromethane      | 1.506 | 1.444 | 4.1   | 97    | 0.02     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.105 | 1.056 | 4.4   | 99    | 0.02     |
| 13   | Ethanol                     | 0.067 | 0.072 | -7.5  | 88    | 0.00     |
| 14 T | Bromoethene                 | 0.502 | 0.490 | 2.4   | 94    | 0.02     |
| 15 T | Acetone                     | 1.018 | 0.866 | 14.9  | 97    | 0.02     |
| 16 T | 1,3-Butadiene               | 0.653 | 0.676 | -3.5  | 99    | 0.01     |
| 17   | tert-Butyl alcohol          | 0.930 | 0.959 | -3.1  | 93    | 0.02     |
| 18 T | 1,1-Dichloroethene          | 0.502 | 0.489 | 2.6   | 97    | 0.02     |
| 19 T | Isopropyl Alcohol           | 0.583 | 0.578 | 0.9   | 90    | 0.01     |
| 20 T | Methylene Chloride          | 0.510 | 0.410 | 19.6  | 91    | 0.02     |
| 21 T | Allyl Chloride              | 0.827 | 0.806 | 2.5   | 93    | 0.02     |
| 22 T | trans-1,2-Dichloroethene    | 0.501 | 0.494 | 1.4   | 99    | 0.02     |
| 23 T | Vinyl Acetate               | 1.500 | 1.728 | -15.2 | 103   | 0.02     |
| 24 T | 1,1-Dichloroethane          | 1.088 | 1.076 | 1.1   | 97    | 0.02     |
| 25 T | Ethyl Acetate               | 2.584 | 2.561 | 0.9   | 96    | 0.02     |
| 26 T | Hexane                      | 1.263 | 1.236 | 2.1   | 99    | 0.02     |
| 27 T | Carbon Disulfide            | 1.126 | 1.169 | -3.8  | 93    | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 1.213 | 1.294 | -6.7  | 99    | 0.02     |
| 29 T | Chloroform                  | 1.790 | 1.748 | 2.3   | 97    | 0.02     |
| 30 T | Cyclohexane                 | 1.053 | 1.048 | 0.5   | 96    | 0.02     |
| 31 T | cis-1,2-Dichloroethene      | 1.143 | 1.160 | -1.5  | 95    | 0.02     |
| 32 T | 1,1,1-Trichloroethane       | 1.759 | 1.651 | 6.1   | 92    | 0.02     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 89    | 0.02     |
| 34 T | 2-Butanone                  | 0.408 | 0.387 | 5.1   | 91    | 0.02     |
| 35 T | Carbon Tetrachloride        | 0.591 | 0.579 | 2.0   | 93    | 0.02     |
| 36 T | Benzene                     | 0.841 | 0.859 | -2.1  | 98    | 0.02     |
| 37 T | 1,2-Dichloroethane          | 0.416 | 0.414 | 0.5   | 95    | 0.02     |
| 38 T | Trichloroethene             | 0.345 | 0.338 | 2.0   | 100   | 0.02     |
| 39 T | 1,2-Dichloropropane         | 0.323 | 0.328 | -1.5  | 97    | 0.02     |
| 40 T | 1,4-Dioxane                 | 0.079 | 0.081 | -2.5  | 93    | 0.02     |
| 41 T | Tetrahydrofuran             | 0.197 | 0.207 | -5.1  | 97    | 0.02     |
| 42 T | Bromodichloromethane        | 0.609 | 0.622 | -2.1  | 94    | 0.03     |
| 43   | Methyl Methacrylate         | 0.293 | 0.313 | -6.8  | 97    | 0.02     |
| 44 T | 2,2,4-Trimethylpentane      | 1.415 | 1.429 | -1.0  | 99    | 0.02     |
| 45 T | t-1,3-Dichloropropene       | 0.221 | 0.274 | -24.0 | 98    | 0.03     |

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|      | Compound                  | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.308 | 0.354 | -14.9  | 98    | 0.02     |
| 47 T | 1,1,2-Trichloroethane     | 0.349 | 0.347 | 0.6    | 97    | 0.02     |
| 48 T | Dibromochloromethane      | 0.502 | 0.542 | -8.0   | 94    | 0.02     |
| 49 T | Bromoform                 | 0.396 | 0.450 | -13.6  | 96    | 0.02     |
| 50 T | 4-Methyl-2-Pentanone      | 0.533 | 0.580 | -8.8   | 101   | 0.02     |
| 51 T | 2-Hexanone                | 0.245 | 0.274 | -11.8  | 102   | 0.03     |
| 52 T | Tetrachloroethene         | 0.344 | 0.318 | 7.6    | 96    | 0.03     |
| 53 T | Toluene                   | 0.960 | 1.000 | -4.2   | 97    | 0.03     |
| 54 T | 1,2-Dibromoethane         | 0.487 | 0.498 | -2.3   | 96    | 0.03     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 98    | 0.03     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.417 | 0.391 | 6.2    | 97    | 0.02     |
| 57 T | Chlorobenzene             | 0.830 | 0.745 | 10.2   | 96    | 0.02     |
| 58 T | Ethyl Benzene             | 1.388 | 1.328 | 4.3    | 98    | 0.02     |
| 59 T | m/p-Xylene                | 1.203 | 1.123 | 6.7    | 96    | 0.03     |
| 60 T | o-Xylene                  | 1.123 | 1.010 | 10.1   | 95    | 0.02     |
| 61 T | Styrene                   | 0.583 | 0.605 | -3.8   | 97    | 0.02     |
| 62   | Isopropylbenzene          | 1.585 | 1.449 | 8.6    | 96    | 0.02     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.835 | 0.750 | 10.2   | 97    | 0.02     |
| 64   | n-propylbenzene           | 0.403 | 0.388 | 3.7    | 96    | 0.03     |
| 65   | tert-Butylbenzene         | 1.443 | 1.309 | 9.3    | 97    | 0.02     |
| 66 T | Benzyl Chloride           | 0.065 | 0.093 | -43.1# | 121   | 0.02     |
| 67   | sec-Butylbenzene          | 2.017 | 1.830 | 9.3    | 97    | 0.02     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.710 | 0.669 | 5.8    | 89    | 0.02     |
| 69   | p-Isopropyltoluene        | 1.643 | 1.544 | 6.0    | 97    | 0.02     |
| 70   | n-Butylbenzene            | 1.570 | 1.521 | 3.1    | 97    | 0.02     |
| 71   | 2-Chlorotoluene           | 1.162 | 1.066 | 8.3    | 95    | 0.02     |
| 72 T | 4-Ethyltoluene            | 1.336 | 1.281 | 4.1    | 97    | 0.02     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.243 | 1.136 | 8.6    | 95    | 0.03     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.321 | 1.208 | 8.6    | 97    | 0.03     |
| 75 T | 1,3-Dichlorobenzene       | 0.795 | 0.749 | 5.8    | 100   | 0.02     |
| 76 T | 1,4-Dichlorobenzene       | 0.801 | 0.722 | 9.9    | 93    | 0.03     |
| 77 T | 1,2-Dichlorobenzene       | 0.783 | 0.733 | 6.4    | 99    | 0.03     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.651 | 0.554 | 14.9   | 98    | 0.02     |
| 79 T | Naphthalene               | 0.884 | 0.980 | -10.9  | 100   | 0.03     |
| 80 T | Naphthalene,2-methyl-     | 0.246 | 0.314 | -27.6  | 93    | 0.02     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.555 | 0.584 | -5.2   | 101   | 0.03     |

(#) = Out of Range

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