

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL123019\  
 Data File : VL034516.D  
 Acq On : 30 Dec 2019 16:18  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL123019

Quant Time: Dec 31 05:23:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 30 14:58:50 2019  
 QLast Update : Mon Dec 30 14:58:50 2019  
 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                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 99    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 7.297  | 27.0  | 93    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 8.996  | 10.0  | 102   | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.243  | 7.6   | 103   | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.756  | 12.4  | 101   | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.561  | 4.4   | 102   | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.524  | 4.8   | 103   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 8.761  | 12.4  | 99    | 0.00     |
| 9 T  | Propene                     | 10.000 | 10.656 | -6.6  | 112   | 0.00     |
| 10 T | Heptane                     | 10.000 | 10.289 | -2.9  | 104   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 8.836  | 11.6  | 99    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.212  | 7.9   | 99    | 0.00     |
| 13   | Ethanol                     | 10.000 | 9.070  | 9.3   | 106   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.750  | 2.5   | 103   | 0.00     |
| 15 T | Acetone                     | 10.000 | 7.865  | 21.3  | 98    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.959  | 0.4   | 101   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 10.092 | -0.9  | 103   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.604  | 4.0   | 101   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.900  | 1.0   | 105   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 7.476  | 25.2  | 99    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.633  | 3.7   | 99    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.585  | 4.1   | 99    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 10.270 | -2.7  | 105   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.347  | 6.5   | 102   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.654  | 3.5   | 103   | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.887  | 1.1   | 105   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 10.251 | -2.5  | 99    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 10.600 | -6.0  | 106   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.333  | 6.7   | 102   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 10.738 | -7.4  | 106   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.641 | -6.4  | 106   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.232  | 7.7   | 101   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 101   | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 9.886  | 1.1   | 106   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 8.831  | 11.7  | 99    | 0.00     |
| 36 T | Benzene                     | 10.000 | 10.119 | -1.2  | 106   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 8.959  | 10.4  | 99    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 10.047 | -0.5  | 102   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.995  | 0.1   | 104   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 10.299 | -3.0  | 112   | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 11.032 | -10.3 | 108   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.552  | 4.5   | 102   | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 10.528 | -5.3  | 103   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.542  | 4.6   | 103   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 11.391 | -13.9 | 102   | 0.00     |

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 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev    | Area% | Dev(min) |
|------|---------------------------|--------|--------|---------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 11.035 | -10.4   | 103   | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 9.456  | 5.4     | 104   | 0.00     |
| 48 T | Dibromochloromethane      | 10.000 | 10.093 | -0.9    | 100   | 0.00     |
| 49 T | Bromoform                 | 10.000 | 9.832  | 1.7     | 98    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.855  | 1.4     | 104   | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 10.143 | -1.4    | 102   | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 9.735  | 2.7     | 103   | 0.00     |
| 53 T | Toluene                   | 10.000 | 10.573 | -5.7    | 104   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 9.860  | 1.4     | 104   | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0     | 100   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.084  | 9.2     | 98    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.120  | 8.8     | 101   | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 9.942  | 0.6     | 103   | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 18.734 | 6.3     | 101   | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 9.373  | 6.3     | 100   | 0.00     |
| 61 T | Styrene                   | 10.000 | 10.239 | -2.4    | 102   | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 9.359  | 6.4     | 101   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.118  | 18.8    | 99    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 9.516  | 4.8     | 100   | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 9.097  | 9.0     | 98    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 10.394 | -3.9    | 95    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 8.995  | 10.1    | 99    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.549  | 4.5     | 97    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.306  | 6.9     | 100   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.043  | 9.6     | 100   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 9.409  | 5.9     | 100   | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.536  | 4.6     | 100   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.377  | 6.2     | 100   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 8.976  | 10.2    | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 8.500  | 15.0    | 101   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 8.954  | 10.5    | 99    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 8.788  | 12.1    | 100   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.832  | 11.7    | 106   | 0.00     |
| 79 T | Naphthalene               | 10.000 | 11.251 | -12.5   | 102   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 22.559 | -125.6# | 159   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 10.284 | -2.8    | 102   | 0.00     |

(#) = Out of Range

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