

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX032520\  
 Data File : VX015351.D  
 Acq On : 25 Mar 2020 20:01  
 Operator : JC/SP  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX032520

Quant Time: Mar 26 02:36:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 26 02:31:53 2020  
 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          | 30.000  | 30.000  | 0.0   | 102   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 17.410  | 13.0  | 97    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.968  | 10.2  | 103   | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 18.789  | 6.1   | 105   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 25.597  | -28.0 | 113   | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 18.739  | 6.3   | 101   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.282  | 8.6   | 99    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 18.966  | 5.2   | 105   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 18.855  | 5.7   | 102   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 19.025  | 4.9   | 103   | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 17.293  | 13.5  | 100   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 18.764  | 6.2   | 101   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 95.521  | 4.5   | 102   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 96.726  | 3.3   | 103   | 0.00     |
| 15 M | Acetone                     | 100.000 | 93.448  | 6.6   | 98    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 20.153  | -0.8  | 109   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.393  | 8.0   | 99    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 18.699  | 6.5   | 101   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 19.434  | 2.8   | 105   | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 18.718  | 6.4   | 99    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.942  | 5.3   | 102   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 19.047  | 4.8   | 104   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 94.035  | 6.0   | 99    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 18.915  | 5.4   | 101   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 18.845  | 5.8   | 102   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 18.726  | 6.4   | 101   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 29.621  | 1.3   | 100   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 101   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 19.613  | 1.9   | 104   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 96.839  | 3.2   | 100   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 18.722  | 6.4   | 97    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 19.058  | 4.7   | 100   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 19.240  | 3.8   | 101   | 0.00     |
| 34 M | Benzene                     | 20.000  | 19.383  | 3.1   | 101   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 19.471  | 2.6   | 102   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 19.816  | 0.9   | 101   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 19.621  | 1.9   | 103   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 19.336  | 3.3   | 101   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 19.170  | 4.1   | 101   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 19.186  | 4.1   | 102   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 18.819  | 5.9   | 100   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 100.785 | -0.8  | 101   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 17.821  | 10.9  | 101   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 19.165  | 4.2   | 100   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 395.033 | 1.2   | 101   | 0.00     |

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 Sample : VSTDICV020  
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 26 02:31:53 2020  
 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) |
|------|-----------------------------|---------|--------|------|-------|----------|
| 46   | Methyl methacrylate         | 20.000  | 18.953 | 5.2  | 99    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 19.012 | 4.9  | 102   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 19.450 | 2.8  | 103   | 0.00     |
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 19.459 | 2.7  | 102   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 19.106 | 4.5  | 101   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 19.036 | 4.8  | 102   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 19.202 | 4.0  | 100   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 18.942 | 5.3  | 100   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 19.340 | 3.3  | 101   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 95.363 | 4.6  | 97    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 19.217 | 3.9  | 104   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0  | 102   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 99.007 | 1.0  | 100   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 98.871 | 1.1  | 100   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.368 | -1.2 | 102   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 19.352 | 3.2  | 102   | 0.00     |
| 62 M | Toluene                     | 20.000  | 19.671 | 1.6  | 103   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.215 | -0.7 | 100   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.497 | 2.5  | 104   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 19.107 | 4.5  | 103   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 19.676 | 1.6  | 102   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 39.173 | 2.1  | 103   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 19.285 | 3.6  | 102   | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.591 | 2.0  | 103   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.707 | 1.5  | 103   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 19.247 | 3.8  | 103   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 19.231 | 3.8  | 100   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.370 | 3.1  | 105   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 19.886 | 0.6  | 103   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 19.583 | 2.1  | 102   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.567 | 2.2  | 102   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 18.852 | 5.7  | 100   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 19.974 | 0.1  | 104   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.428 | 2.9  | 102   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.449 | 2.8  | 102   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 19.785 | 1.1  | 103   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 19.898 | 0.5  | 106   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.621 | 1.9  | 107   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 19.686 | 1.6  | 106   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 20.023 | -0.1 | 106   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.200 | 4.0  | 106   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 19.648 | 1.8  | 106   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 19.149 | 4.3  | 101   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 20.412 | -2.1 | 115   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 20.629 | -3.1 | 120   | 0.00     |

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Mar 26 02:31:53 2020  
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) |
|------|------------------------|--------|--------|------|------|------------|
| 91 M | Naphthalene            | 20.000 | 20.205 | -1.0 | 106  | 0.00       |
| 92   | 1,2,3-Trichlorobenzene | 20.000 | 19.777 | 1.1  | 110  | 0.00       |

(#) = Out of Range

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