

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N100620W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Tue Oct 06 16:42:38 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN063888.D 20 =VN063889.D 50 =VN063890.D
 100 =VN063891.D 150 =VN063892.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.808	2.321	2.084	2.132	1.807	2.031	10.94
3) M	Chloromethane	2.053	2.306	2.077	2.190	1.879	2.101	7.60
4) M	Vinyl Chloride	2.083	2.287	2.071	2.168	1.842	2.090	7.82
5) M	Bromomethane	1.455	1.443	1.290	1.379	1.160	1.345	9.14
6) M	Chloroethane	1.409	1.417	1.266	1.330	1.134	1.311	8.90
7) M	Trichlorofluorometh	3.603	3.552	3.235	3.327	2.782	3.300	9.92
8) T	Diethyl Ether	1.055	1.117	1.093	1.117	0.960	1.068	6.14
9)	1,1,2-Trichlorotrif	1.921	1.866	1.649	1.705	1.432	1.715	11.29
10) M	1,1-Dichloroethene	1.687	1.708	1.607	1.656	1.391	1.610	7.97
11)	Methyl Iodide	1.731	2.172	2.137	2.260	1.971	2.054	10.17
12)	Methyl Acetate	1.855	2.123	1.971	2.084	1.872	1.981	6.12
13) M	Acrolein	0.137	0.166	0.210	0.235	0.215	0.193	20.81
14) M	Acrylonitrile	0.778	0.840	0.820	0.876	0.759	0.815	5.79
15) M	Acetone	0.242	0.251	0.238	0.241	0.207	0.236	7.16
16) M	Carbon Disulfide	4.983	5.043	4.700	4.910	4.234	4.774	6.89
17)	Allyl chloride	3.007	3.365	2.882	3.050	2.678	2.996	8.40
18) M	Methylene Chloride	2.051	2.090	1.910	1.951	1.647	1.930	9.02
19) M	trans-1,2-Dichloroe	1.940	1.854	1.804	1.885	1.608	1.818	7.00
20) T	Diisopropyl ether	6.032	6.334	5.904	6.335	5.512	6.023	5.68
21) M	1,1-Dichloroethane	3.867	3.937	3.541	3.708	3.178	3.646	8.31
22) M	cis-1,2-Dichloroeth	2.122	2.118	2.062	2.157	1.863	2.064	5.69
23) M	tert-Butyl Alcohol	0.362	0.369	0.341	0.361	0.313	0.349	6.54
24) M	Methyl tert-Butyl E	5.222	5.753	5.401	5.734	4.894	5.401	6.70
25) M	Chloroform	4.035	4.094	3.732	3.937	3.318	3.823	8.21
26)	Cyclohexane	2.577	2.696	2.602	2.824	2.435	2.626	5.50
27) s	1,2-Dichloroethane-	2.837	2.722	2.655	2.674	2.583	2.694	3.49

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.520	0.562	0.521	0.548	0.476	0.525	6.24
30) M	2-Butanone	0.252	0.269	0.259	0.269	0.239	0.258	5.00
31)	2,2-Dichloropropane	0.680	0.678	0.611	0.632	0.538	0.628	9.26
32) M	1,1,1-Trichloroetha	0.708	0.724	0.659	0.675	0.585	0.670	8.10
33) M	Carbon Tetrachlorid	0.619	0.627	0.577	0.603	0.511	0.587	7.97
34) M	Benzene	1.533	1.598	1.481	1.528	1.329	1.494	6.77
35)	Methacrylonitrile	0.211	0.240	0.261	0.280	0.231	0.245	10.99
36) M	1,2-Dichloroethane	0.727	0.699	0.642	0.655	0.559	0.656	9.76
37) M	Trichloroethene	0.442	0.406	0.379	0.389	0.341	0.391	9.53
38)	Methylcyclohexane	0.427	0.460	0.443	0.469	0.419	0.444	4.80
39) M	1,2-Dichloropropane	0.428	0.441	0.398	0.408	0.355	0.406	8.16
40)	Dibromomethane	0.299	0.308	0.281	0.284	0.245	0.283	8.50
41) M	Bromodichloromethan	0.615	0.621	0.575	0.607	0.528	0.589	6.49
42) M	Vinyl Acetate	0.974	1.128	1.098	1.157	0.991	1.069	7.71
43)	Ethyl Acetate	0.548	0.562	0.549	0.577	0.524	0.552	3.57
44)	Isopropyl Acetate	0.850	0.967	0.921	0.973	0.862	0.915	6.25
45) T	1,4-Dioxane	0.006	0.006	0.006	0.006	0.005	0.006#	7.31
46)	Methyl methacrylate	0.383	0.484	0.470	0.500	0.439	0.455	10.11
47)	n-amyl Acetate	0.687	0.812	0.829	0.915	0.823	0.813	10.04
48) M	t-1,3-Dichloroprope	0.607	0.669	0.626	0.680	0.601	0.637	5.64
49) T	cis-1,3-Dichloropro	0.646	0.681	0.667	0.692	0.615	0.660	4.62
50) M	1,1,2-Trichloroetha	0.399	0.398	0.373	0.386	0.337	0.379	6.82
51)	Ethyl methacrylate	0.454	0.563	0.564	0.617	0.546	0.549	10.80
52)	1,3-Dichloropropane	0.678	0.675	0.635	0.668	0.586	0.648	6.03

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.413	0.463	0.433	0.462	0.406	0.436	6.08
54) M	1,2-Dibromoethane	0.393	0.421	0.395	0.413	0.362	0.397	5.71
55) M	2-Chloroethyl vinyl	0.284	0.285	0.295	0.319	0.281	0.293	5.31
56) M	Bromoform	0.273	0.303	0.304	0.331	0.298	0.302	6.77
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.538	0.623	0.600	0.618	0.531	0.582	7.59
59) M	2-Hexanone	0.402	0.453	0.445	0.464	0.404	0.434	6.65
60) S	4-Bromofluorobenzen	0.479	0.494	0.529	0.531	0.533	0.513	4.89
61) M	Tetrachloroethene	0.413	0.416	0.372	0.377	0.325	0.381	9.74
62) M	Toluene	1.749	1.806	1.710	1.785	1.565	1.723	5.53
63) S	Toluene-d8	1.348	1.363	1.358	1.367	1.363	1.360	0.54
64) M	Chlorobenzene	1.079	1.085	1.029	1.076	0.952	1.044	5.37
65)	1,1,1,2-Tetrachloro	0.418	0.427	0.404	0.423	0.370	0.408	5.64
66) M	Ethyl Benzene	1.779	1.954	1.912	2.044	1.772	1.892	6.16
67) M	m/p-Xylenes	0.655	0.734	0.706	0.758	0.664	0.704	6.27
68) M	o-Xylene	0.627	0.684	0.682	0.724	0.635	0.670	5.91
69) M	Styrene	0.990	1.164	1.174	1.268	1.124	1.144	8.84
70)	Isopropylbenzene	1.615	1.831	1.820	1.944	1.697	1.781	7.17
71) M	1,1,2,2-Tetrachloro	0.552	0.582	0.568	0.591	0.522	0.563	4.87
72)	1,2,3-Trichloroprop	0.582	0.614	0.590	0.578	0.507	0.574	7.00
73)	Bromobenzene	0.452	0.453	0.453	0.481	0.418	0.451	5.00
74)	n-propylbenzene	1.936	2.132	2.124	2.267	1.952	2.082	6.64
75)	2-Chlorotoluene	1.168	1.306	1.298	1.377	1.201	1.270	6.66
76)	1,3,5-Trimethylbenz	1.330	1.534	1.551	1.649	1.446	1.502	7.99
77)	t-1,4-Dichloro-2-bu	0.174	0.202	0.213	0.227	0.206	0.204	9.52
78)	4-Chlorotoluene	1.235	1.382	1.373	1.467	1.268	1.345	6.98
79)	tert-butylbenzene	1.115	1.215	1.220	1.310	1.157	1.203	6.12
80)	1,2,4-Trimethylbenz	1.293	1.552	1.570	1.663	1.451	1.506	9.35
81)	sec-Butylbenzene	1.408	1.614	1.616	1.748	1.522	1.582	7.98
82)	p-Isopropyltoluene	1.245	1.423	1.478	1.601	1.401	1.430	9.01
83) M	1,3-Dichlorobenzene	0.796	0.810	0.789	0.859	0.760	0.803	4.55
84) M	1,4-Dichlorobenzene	0.768	0.798	0.801	0.857	0.764	0.798	4.66
85)	n-Butylbenzene	1.056	1.243	1.293	1.413	1.250	1.251	10.28
86) T	Hexachloroethane	0.237	0.245	0.246	0.268	0.236	0.246	5.21
87) M	1,2-Dichlorobenzene	0.772	0.810	0.787	0.841	0.730	0.788	5.27
88)	1,2-Dibromo-3-Chlor	0.124	0.139	0.139	0.144	0.128	0.135	6.22
89)	1,2,4-Trichlorobenz	0.341	0.395	0.415	0.450	0.401	0.400	9.79
90)	Hexachlorobutadiene	0.207	0.222	0.215	0.221	0.196	0.212	4.97
91) M	Naphthalene	0.863	1.245	1.360	1.408	1.250	1.225	17.50
92)	1,2,3-Trichlorobenz	0.325	0.394	0.409	0.439	0.384	0.390	10.76

(#) = Out of Range