

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N082020W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu Aug 20 14:01:17 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN063032.D 20 =VN063033.D 50 =VN063029.D
 100 =VN063030.D 150 =VN063031.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.569	2.162	2.402	2.334	2.257	2.145	15.59
3) M	Chloromethane	1.920	2.386	2.560	2.526	2.476	2.373	11.04
4) M	Vinyl Chloride	1.991	2.357	2.603	2.520	2.476	2.389	10.03
5) M	Bromomethane	1.508	1.445	1.516	1.445	1.450	1.473	2.45
6) M	Chloroethane	1.261	1.387	1.517	1.470	1.425	1.412	6.89
7) M	Trichlorofluorometh	2.695	2.800	3.095	2.952	2.864	2.881	5.27
8) T	Diethyl Ether	0.938	0.892	0.986	0.998	0.977	0.958	4.51
9)	1,1,2-Trichlorotrif	1.742	1.451	1.617	1.514	1.466	1.558	7.79
10) M	1,1-Dichloroethene	1.450	1.306	1.454	1.403	1.386	1.400	4.31
11)	Methyl Iodide	1.475	1.709	2.141	2.154	2.125	1.921	16.21
12)	Methyl Acetate	1.799	1.795	1.932	1.926	1.879	1.866	3.57
13) M	Acrolein	0.180	0.165	0.200	0.208	0.203	0.191	9.45
14) M	Acrylonitrile	0.753	0.774	0.854	0.864	0.840	0.817	6.15
15) M	Acetone	0.242	0.224	0.257	0.236	0.223	0.236	5.91
16) M	Carbon Disulfide	3.746	3.526	3.912	3.840	3.767	3.758	3.86
17)	Allyl chloride	2.604	2.323	2.629	2.658	2.631	2.569	5.40
18) M	Methylene Chloride	2.444	1.858	1.917	1.812	1.762	1.959	14.16
19) M	trans-1,2-Dichloroe	1.598	1.417	1.605	1.559	1.518	1.539	4.98
20) T	Diisopropyl ether	5.359	5.699	6.516	6.327	6.182	6.017	7.91
21) M	1,1-Dichloroethane	3.511	3.102	3.409	3.295	3.193	3.302	4.95
22) M	cis-1,2-Dichloroeth	1.991	1.742	1.967	1.923	1.916	1.908	5.11
23) M	tert-Butyl Alcohol	0.303	0.257	0.256	0.264	0.259	0.268	7.40
24) M	Methyl tert-Butyl E	4.719	4.717	5.453	5.445	5.345	5.136	7.47
25) M	Chloroform	3.519	3.047	3.414	3.270	3.192	3.288	5.62
26)	Cyclohexane	2.257	2.642	3.112	3.114	3.088	2.843	13.52
27) s	1,2-Dichloroethane-	2.183	2.174	2.126	2.123	2.022	2.126	3.01

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.425	0.399	0.469	0.449	0.436	0.436	6.07
30) M	2-Butanone	0.204	0.188	0.218	0.207	0.198	0.203	5.43
31)	2,2-Dichloropropane	0.575	0.483	0.566	0.525	0.499	0.530	7.61
32) M	1,1,1-Trichloroetha	0.557	0.489	0.557	0.522	0.499	0.525	6.08
33) M	Carbon Tetrachlorid	0.471	0.411	0.475	0.447	0.431	0.447	6.06
34) M	Benzene	1.419	1.311	1.488	1.407	1.356	1.396	4.80
35)	Methacrylonitrile	0.166	0.190	0.215	0.200	0.194	0.193	9.14
36) M	1,2-Dichloroethane	0.509	0.450	0.504	0.473	0.446	0.476	6.18
37) M	Trichloroethene	0.356	0.318	0.359	0.344	0.333	0.342	4.86
38)	Methylcyclohexane	0.435	0.485	0.607	0.609	0.596	0.546	14.86
39) M	1,2-Dichloropropane	0.414	0.382	0.435	0.409	0.393	0.406	4.98
40)	Dibromomethane	0.247	0.222	0.251	0.234	0.225	0.236	5.53
41) M	Bromodichloromethan	0.552	0.482	0.550	0.522	0.508	0.523	5.60
42) M	Vinyl Acetate	0.807	0.680	0.809	0.789	0.761	0.769	6.93
43)	Ethyl Acetate	0.401	0.366	0.408	0.387	0.376	0.388	4.47
44)	Isopropyl Acetate	0.643	0.594	0.680	0.677	0.659	0.651	5.37
45) T	1,4-Dioxane	0.005	0.005	0.007	0.007	0.006	0.006#	10.05
46)	Methyl methacrylate	0.296	0.288	0.339	0.343	0.336	0.320	8.17
47)	n-amyl Acetate	0.487	0.491	0.622	0.645	0.642	0.578	14.05
48) M	t-1,3-Dichloroprope	0.528	0.499	0.586	0.578	0.569	0.552	6.72
49) T	cis-1,3-Dichloropro	0.559	0.556	0.648	0.627	0.615	0.601	6.91
50) M	1,1,2-Trichloroetha	0.388	0.340	0.383	0.364	0.344	0.364	6.03
51)	Ethyl methacrylate	0.411	0.436	0.539	0.549	0.541	0.495	13.36
52)	1,3-Dichloropropane	0.599	0.564	0.640	0.612	0.590	0.601	4.65

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.385	0.370	0.429	0.413	0.398	0.399	5.75
54) M	1,2-Dibromoethane	0.339	0.327	0.372	0.358	0.350	0.349	4.98
55) M	2-Chloroethyl vinyl	0.068	0.081	0.105	0.125	0.129	0.102	26.26
56) M	Bromoform	0.282	0.257	0.311	0.308	0.303	0.292	7.79
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.398	0.407	0.463	0.451	0.438	0.432	6.46
59) M	2-Hexanone	0.287	0.282	0.332	0.323	0.315	0.308	7.28
60) S	4-Bromofluorobenzen	0.431	0.458	0.492	0.491	0.499	0.474	6.14
61) M	Tetrachloroethene	0.358	0.310	0.342	0.324	0.311	0.329	6.29
62) M	Toluene	1.631	1.469	1.681	1.600	1.570	1.590	4.99
63) S	Toluene-d8	1.377	1.382	1.393	1.379	1.353	1.377	1.09
64) M	Chlorobenzene	0.969	0.909	1.045	1.005	0.991	0.984	5.10
65)	1,1,1,2-Tetrachloro	0.390	0.359	0.417	0.397	0.386	0.390	5.38
66) M	Ethyl Benzene	1.571	1.537	1.881	1.851	1.826	1.733	9.51
67) M	m/p-Xylenes	0.560	0.583	0.721	0.699	0.683	0.649	11.18
68) M	o-Xylene	0.552	0.554	0.677	0.672	0.663	0.624	10.33
69) M	Styrene	0.863	0.965	1.227	1.204	1.189	1.090	15.12
70)	Isopropylbenzene	1.457	1.516	1.876	1.829	1.805	1.697	11.48
71) M	1,1,2,2-Tetrachloro	0.555	0.512	0.574	0.549	0.531	0.544	4.36
72)	1,2,3-Trichloroprop	0.463	0.454	0.509	0.500	0.488	0.483	4.91
73)	Bromobenzene	0.444	0.410	0.491	0.474	0.469	0.458	6.93
74)	n-propylbenzene	1.750	1.802	2.246	2.207	2.171	2.035	11.73
75)	2-Chlorotoluene	1.120	1.085	1.313	1.281	1.267	1.213	8.50
76)	1,3,5-Trimethylbenz	1.189	1.295	1.609	1.584	1.562	1.448	13.27
77)	t-1,4-Dichloro-2-bu	0.139	0.147	0.184	0.192	0.192	0.171	15.04
78)	4-Chlorotoluene	1.101	1.112	1.358	1.343	1.339	1.251	10.51
79)	tert-butylbenzene	1.018	1.058	1.343	1.321	1.351	1.218	13.59
80)	1,2,4-Trimethylbenz	1.076	1.247	1.586	1.572	1.566	1.409	16.64
81)	sec-Butylbenzene	1.371	1.462	1.865	1.851	1.843	1.678	14.37
82)	p-Isopropyltoluene	1.149	1.275	1.675	1.673	1.667	1.488	17.17
83) M	1,3-Dichlorobenzene	0.694	0.710	0.877	0.862	0.851	0.799	11.12
84) M	1,4-Dichlorobenzene	0.668	0.683	0.864	0.847	0.842	0.781	12.39
85)	n-Butylbenzene	0.922	0.990	1.350	1.438	1.482	1.236	21.15
86) T	Hexachloroethane	0.268	0.259	0.318	0.311	0.310	0.293	9.38
87) M	1,2-Dichlorobenzene	0.659	0.689	0.851	0.827	0.799	0.765	11.19
88)	1,2-Dibromo-3-Chlor	0.076	0.077	0.092	0.093	0.094	0.086	10.65
89)	1,2,4-Trichlorobenz	0.259	0.291	0.417	0.447	0.474	0.378	25.49
90)	Hexachlorobutadiene	0.293	0.243	0.298	0.286	0.277	0.279	7.77
91) M	Naphthalene	0.623	0.610	0.867	0.999	1.073	0.834	25.46
92)	1,2,3-Trichlorobenz	0.286	0.301	0.402	0.437	0.459	0.377	20.97

(#) = Out of Range