

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N102620W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Mon Oct 26 17:44:53 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN064304.D 20 =VN064305.D 50 =VN064306.D
 100 =VN064307.D 150 =VN064308.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	2.301	2.408	2.504	2.596	2.459	2.454	4.47
3) M	Chloromethane	2.303	2.155	2.257	2.407	2.341	2.293	4.13
4) M	Vinyl Chloride	2.246	2.119	2.254	2.306	2.250	2.235	3.10
5) M	Bromomethane	1.440	1.339	1.371	1.400	1.347	1.380	3.01
6) M	Chloroethane	1.287	1.186	1.251	1.284	1.235	1.249	3.31
7) M	Trichlorofluorometh	3.447	3.395	3.519	3.516	3.341	3.444	2.24
8) T	Diethyl Ether	1.084	1.077	1.108	1.125	1.121	1.103	1.96
9)	1,1,2-Trichlorotrif	1.914	1.632	1.749	1.787	1.689	1.754	6.10
10) M	1,1-Dichloroethene	1.745	1.594	1.651	1.743	1.694	1.686	3.82
11)	Methyl Iodide	2.281	2.172	2.419	2.613	2.584	2.414	7.89
12)	Methyl Acetate	2.084	1.935	1.957	2.080	2.037	2.018	3.42
13) M	Acrolein	0.157	0.106	0.126	0.135	0.142	0.133	14.33
14) M	Acrylonitrile	0.799	0.828	0.887	0.950	0.926	0.878	7.29
15) M	Acetone	0.286	0.222	0.232	0.238	0.229	0.242	10.62
16) M	Carbon Disulfide	5.448	4.521	4.864	5.116	5.070	5.004	6.83
17)	Allyl chloride	3.248	2.847	3.331	3.182	3.395	3.201	6.68
18) M	Methylene Chloride	1.995	1.814	1.897	1.955	1.935	1.919	3.57
19) M	trans-1,2-Dichloroe	1.962	1.632	1.792	1.907	1.854	1.830	6.94
20) T	Diisopropyl ether	6.290	6.088	6.499	6.835	6.680	6.478	4.61
21) M	1,1-Dichloroethane	3.803	3.401	3.613	3.694	3.633	3.629	4.06
22) M	cis-1,2-Dichloroeth	2.214	1.972	2.080	2.175	2.114	2.111	4.42
23) M	tert-Butyl Alcohol	0.412	0.369	0.396	0.421	0.401	0.400	4.99
24) M	Methyl tert-Butyl E	6.582	6.019	6.347	6.545	6.345	6.368	3.51
25) M	Chloroform	3.781	3.560	3.763	3.860	3.753	3.744	2.96
26)	Cyclohexane	2.967	2.715	2.982	3.140	3.059	2.973	5.38
27) s	1,2-Dichloroethane-	2.817	2.808	2.666	2.671	2.534	2.699	4.33

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.550	0.479	0.518	0.513	0.522	0.516	4.92
30) M	2-Butanone	0.249	0.230	0.246	0.246	0.246	0.243	3.05
31)	2,2-Dichloropropane	0.654	0.586	0.627	0.621	0.614	0.620	3.92
32) M	1,1,1-Trichloroetha	0.634	0.610	0.662	0.661	0.665	0.646	3.72
33) M	Carbon Tetrachlorid	0.588	0.553	0.611	0.604	0.601	0.592	3.88
34) M	Benzene	1.377	1.299	1.401	1.420	1.433	1.386	3.82
35)	Methacrylonitrile	0.269	0.231	0.279	0.245	0.247	0.254	7.56
36) M	1,2-Dichloroethane	0.647	0.597	0.622	0.608	0.604	0.616	3.21
37) M	Trichloroethene	0.385	0.348	0.380	0.388	0.390	0.378	4.53
38)	Methylcyclohexane	0.515	0.447	0.509	0.511	0.513	0.499	5.81
39) M	1,2-Dichloropropane	0.368	0.362	0.379	0.377	0.384	0.374	2.32
40)	Dibromomethane	0.256	0.247	0.267	0.265	0.264	0.260	3.14
41) M	Bromodichloromethan	0.552	0.530	0.572	0.572	0.579	0.561	3.55
42) M	Vinyl Acetate	1.013	0.988	1.054	1.078	1.067	1.040	3.68
43)	Ethyl Acetate	0.433	0.471	0.516	0.542	0.518	0.496	8.76
44)	Isopropyl Acetate	0.932	0.866	0.915	0.921	0.923	0.911	2.87
45) T	1,4-Dioxane	0.007	0.007	0.007	0.007	0.007	0.007#	3.85
46)	Methyl methacrylate	0.420	0.426	0.460	0.458	0.460	0.445	4.48
47)	n-amyl Acetate	0.657	0.715	0.794	0.826	0.844	0.767	10.27
48) M	t-1,3-Dichloroprope	0.607	0.604	0.642	0.654	0.656	0.633	4.01
49) T	cis-1,3-Dichloropro	0.634	0.598	0.658	0.663	0.670	0.645	4.52
50) M	1,1,2-Trichloroetha	0.341	0.338	0.352	0.355	0.357	0.349	2.47
51)	Ethyl methacrylate	0.500	0.509	0.559	0.571	0.582	0.544	6.86
52)	1,3-Dichloropropane	0.598	0.589	0.619	0.628	0.628	0.612	2.93

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.383	0.403	0.437	0.447	0.459	0.426	7.46
54) M	1,2-Dibromoethane	0.354	0.359	0.375	0.387	0.388	0.372	4.21
55) M	2-Chloroethyl vinyl	0.225	0.257	0.287	0.293	0.293	0.271	10.95
56) M	Bromoform	0.264	0.291	0.310	0.330	0.331	0.305	9.28
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.539	0.534	0.562	0.580	0.561	0.555	3.37
59) M	2-Hexanone	0.403	0.394	0.421	0.434	0.421	0.415	3.85
60) S	4-Bromofluorobenzene	0.530	0.544	0.540	0.535	0.535	0.537	1.00
61) M	Tetrachloroethene	0.423	0.374	0.402	0.404	0.399	0.400	4.36
62) M	Toluene	1.666	1.526	1.657	1.704	1.710	1.652	4.51
63) S	Toluene-d8	1.342	1.346	1.358	1.338	1.306	1.338	1.45
64) M	Chlorobenzene	1.045	0.943	1.033	1.069	1.060	1.030	4.90
65)	1,1,1,2-Tetrachloro	0.394	0.379	0.418	0.424	0.419	0.407	4.72
66) M	Ethyl Benzene	1.889	1.770	1.896	1.963	1.926	1.889	3.84
67) M	m/p-Xylenes	0.670	0.633	0.705	0.734	0.725	0.694	6.03
68) M	o-Xylene	0.691	0.617	0.683	0.713	0.706	0.682	5.63
69) M	Styrene	1.055	1.038	1.152	1.222	1.218	1.137	7.67
70)	Isopropylbenzene	1.824	1.669	1.803	1.893	1.854	1.809	4.69
71) M	1,1,2,2-Tetrachloro	0.492	0.495	0.515	0.538	0.536	0.515	4.24
72)	1,2,3-Trichloroprop	0.537	0.578	0.556	0.541	0.532	0.549	3.42
73)	Bromobenzene	0.431	0.408	0.446	0.468	0.463	0.443	5.53
74)	n-propylbenzene	2.042	1.887	2.068	2.174	2.136	2.061	5.37
75)	2-Chlorotoluene	1.248	1.193	1.272	1.338	1.322	1.275	4.60
76)	1,3,5-Trimethylbenz	1.515	1.407	1.527	1.600	1.599	1.530	5.17
77)	t-1,4-Dichloro-2-bu	0.178	0.197	0.201	0.223	0.226	0.205	9.63
78)	4-Chlorotoluene	1.291	1.225	1.341	1.407	1.406	1.334	5.86
79)	tert-butylbenzene	1.310	1.138	1.253	1.301	1.301	1.261	5.70
80)	1,2,4-Trimethylbenz	1.520	1.425	1.541	1.621	1.607	1.543	5.07
81)	sec-Butylbenzene	1.750	1.474	1.601	1.687	1.668	1.636	6.41
82)	p-Isopropyltoluene	1.535	1.335	1.494	1.572	1.557	1.499	6.43
83) M	1,3-Dichlorobenzene	0.734	0.690	0.763	0.827	0.836	0.770	8.03
84) M	1,4-Dichlorobenzene	0.738	0.690	0.777	0.829	0.833	0.773	7.87
85)	n-Butylbenzene	1.418	1.135	1.264	1.352	1.365	1.307	8.48
86) T	Hexachloroethane	0.260	0.253	0.278	0.300	0.305	0.279	8.29
87) M	1,2-Dichlorobenzene	0.736	0.688	0.752	0.808	0.807	0.758	6.71
88)	1,2-Dibromo-3-Chlor	0.109	0.122	0.137	0.141	0.142	0.130	10.83
89)	1,2,4-Trichlorobenz	0.410	0.369	0.421	0.469	0.479	0.430	10.52
90)	Hexachlorobutadiene	0.259	0.203	0.226	0.232	0.236	0.231	8.72
91) M	Naphthalene	1.068	1.177	1.313	1.445	1.482	1.297	13.54
92)	1,2,3-Trichlorobenz	0.389	0.367	0.403	0.450	0.467	0.415	10.06

(#) = Out of Range