

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N102320W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Mon Oct 26 01:30:11 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN064279.D 20 =VN064285.D 50 =VN064281.D
 100 =VN064282.D 150 =VN064283.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.527	2.249	2.035	2.042	1.905	1.952	13.71
3) M	Chloromethane	1.816	2.261	2.100	2.113	2.016	2.061	7.92
4) M	Vinyl Chloride	1.924	2.196	2.118	2.104	2.011	2.071	5.07
5) M	Bromomethane	1.474	1.467	1.315	1.283	1.257	1.359	7.61
6) M	Chloroethane	1.178	1.294	1.205	1.231	1.164	1.214	4.23
7) M	Trichlorofluorometh	3.455	3.730	3.521	3.445	3.362	3.502	3.97
8) T	Diethyl Ether	1.194	1.211	1.128	1.142	1.095	1.154	4.15
9)	1,1,2-Trichlorotrif	1.716	1.896	1.750	1.722	1.646	1.746	5.27
10) M	1,1-Dichloroethene	1.602	1.806	1.673	1.672	1.618	1.674	4.79
11)	Methyl Iodide	2.093	2.405	2.513	2.522	2.460	2.399	7.38
12)	Methyl Acetate	1.909	2.052	1.929	1.956	1.942	1.958	2.84
13) M	Acrolein	0.186	0.144	0.149	0.166	0.158	0.161	10.30
14) M	Acrylonitrile	0.705	0.776	0.777	0.771	0.760	0.758	3.97
15) M	Acetone	0.258	0.260	0.247	0.231	0.217	0.243	7.59
16) M	Carbon Disulfide	4.685	5.062	4.843	4.923	4.737	4.850	3.10
17)	Allyl chloride	3.121	3.230	3.171	3.193	3.331	3.209	2.45
18) M	Methylene Chloride	2.049	1.990	1.914	1.944	1.889	1.957	3.26
19) M	trans-1,2-Dichloroe	1.965	2.003	1.842	1.884	1.820	1.903	4.15
20) T	Diisopropyl ether	5.729	6.479	6.170	6.239	5.960	6.115	4.66
21) M	1,1-Dichloroethane	3.425	3.861	3.704	3.708	3.538	3.647	4.63
22) M	cis-1,2-Dichloroeth	2.147	2.278	2.209	2.190	2.092	2.183	3.18
23) M	tert-Butyl Alcohol	0.351	0.364	0.355	0.347	0.340	0.351	2.61
24) M	Methyl tert-Butyl E	5.877	6.034	5.802	5.790	5.568	5.814	2.90
25) M	Chloroform	4.089	4.100	3.936	3.894	3.719	3.947	3.98
26)	Cyclohexane	2.757	2.999	2.822	2.831	2.733	2.828	3.68
27) s	1,2-Dichloroethane-	2.754	2.720	2.616	2.561	2.443	2.619	4.78

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.492	0.535	0.525	0.537	0.504	0.519	3.83
30) M	2-Butanone	0.219	0.235	0.231	0.234	0.220	0.228	3.42
31)	2,2-Dichloropropane	0.648	0.679	0.660	0.651	0.607	0.649	4.06
32) M	1,1,1-Trichloroetha	0.652	0.679	0.677	0.669	0.636	0.663	2.76
33) M	Carbon Tetrachlorid	0.555	0.611	0.607	0.617	0.577	0.594	4.44
34) M	Benzene	1.359	1.443	1.427	1.463	1.395	1.417	2.89
35)	Methacrylonitrile	0.225	0.239	0.241	0.238	0.205	0.230	6.52
36) M	1,2-Dichloroethane	0.613	0.615	0.604	0.620	0.570	0.604	3.31
37) M	Trichloroethene	0.379	0.404	0.385	0.403	0.380	0.390	3.15
38)	Methylcyclohexane	0.468	0.483	0.468	0.487	0.461	0.473	2.32
39) M	1,2-Dichloropropane	0.361	0.386	0.382	0.393	0.373	0.379	3.29
40)	Dibromomethane	0.257	0.278	0.263	0.272	0.255	0.265	3.76
41) M	Bromodichloromethan	0.544	0.602	0.576	0.587	0.566	0.575	3.82
42) M	Vinyl Acetate	0.931	1.024	1.020	1.054	0.994	1.005	4.63
43)	Ethyl Acetate	0.476	0.481	0.478	0.507	0.468	0.482	3.03
44)	Isopropyl Acetate	0.802	0.900	0.881	0.898	0.843	0.865	4.85
45) T	1,4-Dioxane	0.005	0.005	0.005	0.006	0.005	0.005#	3.72
46)	Methyl methacrylate	0.351	0.432	0.442	0.444	0.423	0.418	9.22
47)	n-amyl Acetate	0.631	0.731	0.783	0.805	0.782	0.746	9.39
48) M	t-1,3-Dichloroprope	0.589	0.664	0.642	0.672	0.641	0.642	5.06
49) T	cis-1,3-Dichloropro	0.646	0.674	0.668	0.690	0.655	0.667	2.57
50) M	1,1,2-Trichloroetha	0.334	0.354	0.353	0.359	0.345	0.349	2.82
51)	Ethyl methacrylate	0.482	0.531	0.548	0.575	0.548	0.537	6.40
52)	1,3-Dichloropropane	0.592	0.636	0.623	0.633	0.604	0.617	3.10

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.399	0.440	0.444	0.457	0.442	0.436	5.03
54) M	1,2-Dibromoethane	0.351	0.374	0.381	0.390	0.369	0.373	3.92
55) M	2-Chloroethyl vinyl	0.281	0.176	0.272	0.297	0.279	0.261	18.64
56) M	Bromoform	0.285	0.301	0.310	0.329	0.316	0.308	5.40
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.476	0.534	0.528	0.535	0.513	0.517	4.74
59) M	2-Hexanone	0.382	0.408	0.393	0.395	0.382	0.392	2.74
60) S	4-Bromofluorobenzene	0.538	0.544	0.517	0.536	0.535	0.534	1.93
61) M	Tetrachloroethene	0.425	0.437	0.419	0.416	0.399	0.419	3.26
62) M	Toluene	1.662	1.772	1.736	1.761	1.703	1.727	2.60
63) S	Toluene-d8	1.339	1.357	1.348	1.324	1.336	1.341	0.92
64) M	Chlorobenzene	0.993	1.121	1.074	1.104	1.064	1.071	4.61
65)	1,1,1,2-Tetrachloro	0.417	0.440	0.431	0.433	0.419	0.428	2.33
66) M	Ethyl Benzene	1.906	2.014	2.003	2.028	1.950	1.980	2.56
67) M	m/p-Xylenes	0.691	0.752	0.737	0.761	0.729	0.734	3.68
68) M	o-Xylene	0.682	0.729	0.715	0.732	0.707	0.713	2.82
69) M	Styrene	1.062	1.206	1.197	1.252	1.219	1.187	6.13
70)	Isopropylbenzene	1.777	1.929	1.900	1.950	1.869	1.885	3.60
71) M	1,1,2,2-Tetrachloro	0.473	0.512	0.515	0.523	0.505	0.506	3.77
72)	1,2,3-Trichloroprop	0.531	0.522	0.551	0.513	0.508	0.525	3.23
73)	Bromobenzene	0.425	0.468	0.464	0.476	0.460	0.459	4.32
74)	n-propylbenzene	1.979	2.236	2.195	2.256	2.148	2.163	5.11
75)	2-Chlorotoluene	1.280	1.347	1.351	1.384	1.316	1.335	2.94
76)	1,3,5-Trimethylbenz	1.493	1.633	1.604	1.660	1.599	1.598	3.96
77)	t-1,4-Dichloro-2-bu	0.170	0.202	0.209	0.220	0.215	0.203	9.72
78)	4-Chlorotoluene	1.239	1.422	1.425	1.460	1.416	1.392	6.29
79)	tert-butylbenzene	1.204	1.348	1.321	1.354	1.301	1.306	4.66
80)	1,2,4-Trimethylbenz	1.496	1.648	1.650	1.682	1.631	1.621	4.47
81)	sec-Butylbenzene	1.570	1.757	1.712	1.752	1.684	1.695	4.47
82)	p-Isopropyltoluene	1.407	1.593	1.580	1.619	1.579	1.555	5.43
83) M	1,3-Dichlorobenzene	0.717	0.821	0.816	0.850	0.840	0.809	6.57
84) M	1,4-Dichlorobenzene	0.751	0.836	0.829	0.863	0.839	0.824	5.17
85)	n-Butylbenzene	1.243	1.406	1.378	1.425	1.391	1.369	5.30
86) T	Hexachloroethane	0.238	0.265	0.261	0.279	0.270	0.263	5.91
87) M	1,2-Dichlorobenzene	0.707	0.800	0.805	0.832	0.802	0.789	6.02
88)	1,2-Dibromo-3-Chlor	0.104	0.124	0.127	0.133	0.128	0.123	9.00
89)	1,2,4-Trichlorobenz	0.360	0.454	0.470	0.479	0.488	0.450	11.58
90)	Hexachlorobutadiene	0.246	0.255	0.244	0.249	0.239	0.246	2.49
91) M	Naphthalene	0.985	1.341	1.389	1.430	1.438	1.316	14.36
92)	1,2,3-Trichlorobenz	0.337	0.446	0.448	0.457	0.470	0.432	12.48

(#) = Out of Range