

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 624X022521W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu Feb 25 13:26:35 2021
 Response Via : Initial Calibration

Calibration Files

5 =VX020903.D 20 =VX020909.D 50 =VX020905.D 100 =VX020906.D 150 =VX020907.D

Compound		5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	1.737	1.837	1.602	1.552	1.716	1.689	6.70
3) M	Chloromethane	1.841	1.941	1.750	1.679	1.813	1.805	5.45
4) M	Vinyl Chloride	2.102	2.319	2.052	2.031	2.181	2.137	5.47
5) M	Bromomethane	1.180	0.788	0.732	0.636	0.685	0.805	27.05
6) M	Chloroethane	1.349	1.457	1.311	1.287	1.366	1.354	4.85
7) M	Trichlorofluorom...	2.665	3.005	2.700	2.610	2.820	2.760	5.70
8) T	Diethyl Ether	1.218	1.361	1.190	1.188	1.268	1.245	5.81
9)	1,1,2-Trichlorot...	1.709	1.898	1.651	1.603	1.743	1.721	6.54
10) M	1,1-Dichloroethene	1.705	1.960	1.697	1.681	1.824	1.774	6.69
11)	Methyl Iodide	1.794	2.158	2.240	2.295	2.504	2.198	11.81
12)	Methyl Acetate	1.778	2.106	1.955	1.901	2.067	1.961	6.72
13) M	Acrolein	0.192	0.272	0.289	0.309	0.332	0.279	19.15
14) M	Acrylonitrile	0.910	1.042	0.968	0.949	1.023	0.978	5.53
15) M	Acetone	0.310	0.338	0.285	0.261	0.275	0.294	10.40
16) M	Carbon Disulfide	4.935	5.519	4.806	4.687	5.087	5.007	6.44
17)	Allyl chloride	2.688	3.016	2.718	2.673	2.893	2.797	5.39
18) M	Methylene Chloride	2.005	2.198	1.903	1.880	2.033	2.004	6.32
19) M	trans-1,2-Dichlo...	1.922	2.154	1.904	1.856	1.998	1.967	5.92
20) T	Diisopropyl ether	5.507	6.127	5.482	5.406	5.834	5.671	5.34
21) M	1,1-Dichloroethane	3.220	3.668	3.261	3.219	3.446	3.363	5.79
22) M	cis-1,2-Dichloro...	2.179	2.456	2.165	2.121	2.323	2.249	6.15
23) M	tert-Butyl Alcohol	0.421	0.470	0.442	0.428	0.459	0.444	4.62
24) M	Methyl tert-Buty...	5.896	6.811	6.090	5.944	6.353	6.219	6.05
25) M	Chloroform	3.357	3.736	3.351	3.242	3.531	3.444	5.63
26)	Cyclohexane	3.014	3.340	2.914	2.859	3.096	3.045	6.20
27) s	1,2-Dichloroetha...	2.121	2.127	2.091	2.076	2.148	2.113	1.36

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.455	0.510	0.465	0.447	0.474	0.470	5.24
30) M	2-Butanone	0.227	0.250	0.235	0.218	0.231	0.232	5.04
31)	2,2-Dichloropropane	0.535	0.590	0.533	0.514	0.540	0.542	5.24
32) M	1,1,1-Trichloroe...	0.510	0.569	0.518	0.507	0.537	0.528	4.86
33) M	Carbon Tetrachlo...	0.443	0.495	0.449	0.436	0.466	0.458	5.13
34) M	Benzene	1.357	1.524	1.404	1.352	1.428	1.413	4.96
35)	Methacrylonitrile	0.233	0.263	0.253	0.242	0.256	0.250	4.70
36) M	1,2-Dichloroethane	0.460	0.511	0.471	0.453	0.480	0.475	4.78
37) M	Trichloroethene	0.360	0.417	0.375	0.367	0.391	0.382	5.96
38)	Methylcyclohexane	0.568	0.659	0.587	0.566	0.608	0.598	6.39
39) M	1,2-Dichloropropane	0.337	0.370	0.347	0.337	0.356	0.349	3.95
40)	Dibromomethane	0.229	0.257	0.237	0.232	0.248	0.240	4.95
41) M	Bromodichloromet...	0.481	0.540	0.502	0.478	0.509	0.502	5.01
42) M	Vinyl Acetate	0.815	0.921	0.872	0.835	0.885	0.866	4.84
43)	Ethyl Acetate	0.413	0.461	0.444	0.434	0.457	0.442	4.44
44)	Isopropyl Acetate	0.705	0.788	0.755	0.723	0.773	0.749	4.58
45) T	1,4-Dioxane	0.008	0.009	0.009	0.008	0.009	0.009#	5.59
46)	Methyl methacrylate	0.337	0.391	0.380	0.365	0.387	0.372	5.91
47)	n-amyl Acetate	0.549	0.647	0.619	0.617	0.648	0.616	6.55
48) M	t-1,3-Dichloropr...	0.522	0.587	0.559	0.547	0.585	0.560	4.85
49) T	cis-1,3-Dichloro...	0.574	0.650	0.609	0.592	0.630	0.611	4.90
50) M	1,1,2-Trichloroe...	0.341	0.382	0.351	0.337	0.354	0.353	5.00
51)	Ethyl methacrylate	0.510	0.578	0.559	0.543	0.570	0.552	4.89
52)	1,3-Dichloropropane	0.575	0.645	0.595	0.568	0.603	0.597	5.08
53) M	Dibromochloromet...	0.349	0.395	0.377	0.368	0.383	0.374	4.61
54) M	1,2-Dibromoethane	0.351	0.386	0.371	0.353	0.372	0.367	4.03
55) M	2-Chloroethyl vi...	0.171	0.275	0.284	0.283	0.291	0.261	19.41
56) M	Bromoform	0.240	0.288	0.260	0.258	0.274	0.264	6.89

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		-----ISTD-----							
57) I	Chlorobenzene-d5								
58) M	4-Methyl-2-Penta...	0.453	0.518	0.515	0.477	0.493	0.491		5.50
59) M	2-Hexanone	0.350	0.402	0.386	0.358	0.373	0.374		5.61
60) S	4-Bromofluoroben...	0.482	0.498	0.506	0.500	0.495	0.496		1.81
61) M	Tetrachloroethene	0.365	0.404	0.374	0.345	0.361	0.370		5.92
62) M	Toluene	1.651	1.854	1.746	1.632	1.734	1.723		5.13
63) S	Toluene-d8	1.375	1.369	1.394	1.335	1.357	1.366		1.60
64) M	Chlorobenzene	1.014	1.131	1.095	0.994	1.057	1.058		5.35
65)	1,1,1,2-Tetrachl...	0.366	0.405	0.395	0.370	0.397	0.387		4.49
66) M	Ethyl Benzene	1.825	2.083	1.960	1.824	1.908	1.920		5.62
67) M	m/p-Xylenes	0.672	0.779	0.725	0.689	0.701	0.713		5.82
68) M	o-Xylene	0.630	0.743	0.696	0.646	0.679	0.679		6.56
69) M	Styrene	1.085	1.296	1.201	1.157	1.185	1.185		6.43
70)	Isopropylbenzene	1.747	1.980	1.858	1.742	1.820	1.829		5.33
71) M	1,1,2,2-Tetrachl...	0.519	0.620	0.589	0.561	0.574	0.573		6.53
72)	1,2,3-Trichlorop...	0.452	0.536	0.495	0.541	0.559	0.517		8.31
73)	Bromobenzene	0.391	0.462	0.435	0.406	0.445	0.428		6.71
74)	n-propylbenzene	1.941	2.305	2.131	2.016	2.085	2.096		6.54
75)	2-Chlorotoluene	1.167	1.387	1.254	1.199	1.247	1.251		6.73
76)	1,3,5-Trimethylb...	1.376	1.661	1.557	1.457	1.487	1.508		7.14
77)	t-1,4-Dichloro-2...	0.188	0.222	0.219	0.219	0.229	0.216		7.35
78)	4-Chlorotoluene	1.319	1.551	1.431	1.402	1.430	1.427		5.84
79)	tert-butylbenzene	1.331	1.559	1.475	1.391	1.464	1.444		6.03
80)	1,2,4-Trimethylb...	1.417	1.693	1.568	1.465	1.513	1.531		6.94
81)	sec-Butylbenzene	1.598	1.924	1.787	1.673	1.750	1.746		7.05
82)	p-Isopropyltoluene	1.419	1.716	1.594	1.568	1.603	1.580		6.74
83) M	1,3-Dichlorobenzene	0.688	0.867	0.796	0.775	0.799	0.785		8.22
84) M	1,4-Dichlorobenzene	0.674	0.850	0.777	0.761	0.783	0.769		8.19
85)	n-Butylbenzene	1.261	1.551	1.455	1.406	1.464	1.427		7.45
86) T	Hexachloroethane	0.259	0.324	0.308	0.288	0.312	0.298		8.63
87) M	1,2-Dichlorobenzene	0.644	0.829	0.762	0.725	0.744	0.741		9.02
88)	1,2-Dibromo-3-Ch...	0.114	0.134	0.132	0.128	0.138	0.129		7.36
89)	1,2,4-Trichlorob...	0.408	0.520	0.495	0.498	0.519	0.488		9.41
90)	Hexachlorobutadiene	0.176	0.218	0.196	0.201	0.207	0.200		7.72
91) M	Naphthalene	1.375	1.839	1.795	1.713	1.827	1.710		11.31
92)	1,2,3-Trichlorob...	0.412	0.551	0.482	0.488	0.514	0.489		10.44

(#) = Out of Range