

Method Path : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\
 Method File : 624X102119W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Tue Oct 22 01:53:07 2019
 Response Via : Initial Calibration

Calibration Files

5 =VX013149.D 20 =VX013150.D 50 =VX013151.D
 100 =VX013152.D 150 =VX013153.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	2.287	2.164	2.036	2.089	2.194	2.154	4.50
3) M	Chloromethane	2.018	1.826	1.748	1.831	1.966	1.878	5.88
4) M	Vinyl Chloride	2.078	1.898	1.808	1.891	2.031	1.941	5.70
5) M	Bromomethane	1.224	1.183	0.884	0.952	0.996	1.048	14.14
6) M	Chloroethane	1.518	1.239	1.073	1.177	1.188	1.239	13.48
7) M	Trichlorofluorometh	3.472	3.077	2.877	3.009	3.164	3.120	7.15
8) T	Diethyl Ether	1.218	1.034	0.981	1.003	1.088	1.065	8.91
9)	1,1,2-Trichlorotrif	2.242	1.809	1.717	1.829	1.932	1.906	10.66
10) M	1,1-Dichloroethene	2.056	1.795	1.706	1.770	1.874	1.840	7.33
11)	Methyl Iodide	2.110	2.193	2.371	2.495	2.683	2.370	9.71
12)	Methyl Acetate	2.582	2.379	2.265	2.271	2.386	2.377	5.40
13) M	Acrolein	0.265	0.369	0.362	0.389	0.384	0.354	14.31
14) M	Acrylonitrile	1.070	0.995	0.948	0.949	1.006	0.994	5.06
15) M	Acetone	0.350	0.343	0.322	0.320	0.301	0.327	6.04
16) M	Carbon Disulfide	5.279	4.696	4.545	4.854	5.199	4.915	6.45
17)	Allyl chloride	3.193	2.859	2.753	2.824	3.007	2.927	5.98
18) M	Methylene Chloride	2.651	2.058	1.928	1.948	2.071	2.131	13.95
19) M	trans-1,2-Dichloroe	2.174	1.908	1.799	1.883	2.001	1.953	7.33
20) T	Diisopropyl ether	6.229	5.632	5.316	5.424	5.708	5.662	6.25
21) M	1,1-Dichloroethane	3.885	3.359	3.176	3.276	3.493	3.438	8.02
22) M	cis-1,2-Dichloroeth	2.458	2.196	2.082	2.123	2.275	2.227	6.66
23) M	tert-Butyl Alcohol	0.644	0.519	0.476	0.475	0.504	0.524	13.38
24) M	Methyl tert-Butyl E	7.001	6.134	5.942	6.147	6.511	6.347	6.61
25) M	Chloroform	4.043	3.543	3.372	3.462	3.643	3.613	7.21
26)	Cyclohexane	3.397	2.914	2.769	2.901	3.100	3.016	8.07
27) s	1,2-Dichloroethane-	2.348	2.348	2.316	2.356	2.441	2.362	2.00

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.501	0.472	0.448	0.449	0.460	0.466	4.71
30) M	2-Butanone	0.258	0.252	0.244	0.237	0.232	0.244	4.42
31)	2,2-Dichloropropane	0.589	0.534	0.517	0.532	0.522	0.539	5.40
32) M	1,1,1-Trichloroetha	0.616	0.560	0.544	0.546	0.553	0.564	5.32
33) M	Carbon Tetrachlorid	0.501	0.479	0.470	0.487	0.487	0.485	2.36
34) M	Benzene	1.438	1.365	1.293	1.297	1.315	1.342	4.55
35)	Methacrylonitrile	0.269	0.249	0.245	0.240	0.251	0.251	4.32
36) M	1,2-Dichloroethane	0.568	0.516	0.484	0.482	0.485	0.507	7.30
37) M	Trichloroethene	0.408	0.373	0.355	0.360	0.366	0.372	5.62
38)	Methylcyclohexane	0.617	0.554	0.539	0.561	0.571	0.568	5.17
39) M	1,2-Dichloropropane	0.354	0.332	0.316	0.318	0.326	0.329	4.60
40)	Dibromomethane	0.244	0.238	0.230	0.229	0.234	0.235	2.62
41) M	Bromodichloromethan	0.484	0.472	0.458	0.471	0.486	0.474	2.36
42) M	Vinyl Acetate	0.890	0.860	0.835	0.825	0.828	0.848	3.22
43)	Ethyl Acetate	0.469	0.439	0.448	0.436	0.438	0.446	3.09
44)	Isopropyl Acetate	0.779	0.759	0.725	0.737	0.745	0.749	2.78
45) T	1,4-Dioxane	0.010	0.010	0.009	0.009	0.009	0.009#	5.55
46)	Methyl methacrylate	0.381	0.372	0.359	0.363	0.370	0.369	2.31
47)	n-amyl Acetate	0.607	0.602	0.609	0.671	0.668	0.632	5.53
48) M	t-1,3-Dichloroprope	0.491	0.501	0.511	0.543	0.556	0.520	5.40
49) T	cis-1,3-Dichloropro	0.561	0.559	0.553	0.574	0.584	0.566	2.24
50) M	1,1,2-Trichloroetha	0.378	0.351	0.335	0.332	0.342	0.347	5.39
51)	Ethyl methacrylate	0.533	0.533	0.537	0.548	0.572	0.545	3.02
52)	1,3-Dichloropropane	0.630	0.593	0.565	0.565	0.573	0.585	4.73

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.365	0.364	0.371	0.377	0.396	0.375	3.52
54) M	1,2-Dibromoethane	0.393	0.377	0.361	0.359	0.367	0.371	3.80
55) M	2-Chloroethyl vinyl	0.206	0.219	0.241	0.206	0.235	0.221	7.27
56) M	Bromoform	0.236	0.250	0.265	0.281	0.297	0.266	9.19
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.534	0.520	0.495	0.489	0.490	0.506	4.04
59) M	2-Hexanone	0.417	0.406	0.390	0.390	0.377	0.396	3.97
60) S	4-Bromofluorobenzene	0.506	0.521	0.514	0.527	0.544	0.522	2.73
61) M	Tetrachloroethene	0.463	0.418	0.389	0.361	0.358	0.398	11.05
62) M	Toluene	1.787	1.632	1.566	1.550	1.562	1.619	6.11
63) S	Toluene-d8	1.341	1.370	1.340	1.316	1.304	1.334	1.90
64) M	Chlorobenzene	1.155	1.031	1.003	0.990	1.013	1.038	6.45
65)	1,1,1,2-Tetrachloro	0.405	0.391	0.373	0.384	0.391	0.389	3.03
66) M	Ethyl Benzene	2.006	1.844	1.804	1.822	1.843	1.864	4.36
67) M	m/p-Xylenes	0.773	0.709	0.678	0.687	0.696	0.708	5.35
68) M	o-Xylene	0.740	0.654	0.659	0.659	0.669	0.676	5.30
69) M	Styrene	1.183	1.156	1.136	1.151	1.193	1.164	2.03
70)	Isopropylbenzene	2.028	1.851	1.779	1.800	1.820	1.856	5.40
71) M	1,1,2,2-Tetrachloro	0.630	0.556	0.563	0.545	0.549	0.569	6.18
72)	1,2,3-Trichloroprop	0.502	0.546	0.455	0.445	0.521	0.494	8.71
73)	Bromobenzene	0.507	0.430	0.418	0.430	0.442	0.445	8.03
74)	n-propylbenzene	2.125	2.004	1.936	2.021	2.097	2.037	3.71
75)	2-Chlorotoluene	1.344	1.264	1.229	1.252	1.282	1.274	3.41
76)	1,3,5-Trimethylbenz	1.595	1.507	1.539	1.557	1.591	1.558	2.36
77)	t-1,4-Dichloro-2-bu	0.167	0.178	0.190	0.211	0.213	0.192	10.51
78)	4-Chlorotoluene	1.509	1.409	1.425	1.443	1.495	1.456	3.03
79)	tert-butylbenzene	1.598	1.414	1.443	1.500	1.545	1.500	4.98
80)	1,2,4-Trimethylbenz	1.647	1.501	1.464	1.571	1.598	1.556	4.73
81)	sec-Butylbenzene	1.881	1.747	1.718	1.752	1.837	1.787	3.84
82)	p-Isopropyltoluene	1.673	1.577	1.564	1.660	1.694	1.634	3.61
83) M	1,3-Dichlorobenzene	0.891	0.777	0.756	0.808	0.834	0.813	6.45
84) M	1,4-Dichlorobenzene	0.865	0.772	0.755	0.811	0.819	0.804	5.37
85)	n-Butylbenzene	1.351	1.305	1.333	1.432	1.519	1.388	6.28
86) T	Hexachloroethane	0.267	0.268	0.275	0.297	0.319	0.285	7.82
87) M	1,2-Dichlorobenzene	0.817	0.781	0.752	0.801	0.794	0.789	3.09
88)	1,2-Dibromo-3-Chlor	0.138	0.140	0.141	0.142	0.139	0.140	1.06
89)	1,2,4-Trichlorobenz	0.473	0.463	0.476	0.517	0.524	0.491	5.70
90)	Hexachlorobutadiene	0.270	0.229	0.234	0.264	0.248	0.249	7.30
91) M	Naphthalene	1.533	1.538	1.576	1.657	1.676	1.596	4.19
92)	1,2,3-Trichlorobenz	0.511	0.480	0.505	0.504	0.513	0.503	2.62

(#) = Out of Range