

Method Path : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\
 Method File : 624X072720W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Mon Jul 27 11:38:31 2020
 Response Via : Initial Calibration

Calibration Files

5 =VX017607.D 20 =VX017608.D 50 =VX017609.D
 100 =VX017610.D 150 =VX017611.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.535	2.419	2.604	2.494	2.469	2.304	18.90
3) M	Chloromethane	1.664	2.312	2.340	2.380	2.449	2.229	14.35
4) M	Vinyl Chloride	1.652	2.337	2.320	2.393	2.390	2.218	14.35
5) M	Bromomethane	1.315	1.532	1.428	1.288	1.287	1.370	7.83
6) M	Chloroethane	1.015	1.312	1.286	1.317	1.321	1.250	10.56
7) M	Trichlorofluorometh	3.047	3.555	3.521	3.595	3.457	3.435	6.48
8) T	Diethyl Ether	1.014	0.959	0.981	0.996	1.001	0.990	2.14
9)	1,1,2-Trichlorotrif	1.647	1.550	1.530	1.565	1.483	1.555	3.84
10) M	1,1-Dichloroethene	1.595	1.423	1.378	1.437	1.382	1.443	6.15
11)	Methyl Iodide	1.151	1.670	1.961	2.115	2.186	1.817	23.20
12)	Methyl Acetate	2.106	2.209	2.189	2.185	2.285	2.195	2.90
13) M	Acrolein	0.330	0.302	0.313	0.337	0.343	0.325	5.26
14) M	Acrylonitrile	0.784	0.909	0.949	0.937	1.009	0.918	9.05
15) M	Acetone	0.239	0.248	0.256	0.248	0.262	0.251	3.45
16) M	Carbon Disulfide	3.428	3.901	3.908	3.934	3.959	3.826	5.84
17)	Allyl chloride	2.755	2.700	2.703	2.731	2.828	2.744	1.91
18) M	Methylene Chloride	1.774	1.720	1.667	1.616	1.690	1.693	3.47
19) M	trans-1,2-Dichloroe	1.471	1.555	1.548	1.545	1.591	1.542	2.83
20) T	Diisopropyl ether	5.588	5.480	5.500	5.509	5.393	5.494	1.27
21) M	1,1-Dichloroethane	2.916	2.886	2.987	2.925	2.988	2.940	1.54
22) M	cis-1,2-Dichloroeth	1.860	1.800	1.755	1.878	1.816	1.822	2.69
23) M	tert-Butyl Alcohol	0.393	0.432	0.433	0.433	0.460	0.430	5.61
24) M	Methyl tert-Butyl E	5.122	5.725	5.895	5.876	6.097	5.743	6.47
25) M	Chloroform	3.143	3.320	3.211	3.203	3.453	3.266	3.75
26)	Cyclohexane	2.103	2.618	2.632	2.761	2.963	2.615	12.17
27) s	1,2-Dichloroethane-	2.404	2.212	2.261	2.226	2.424	2.305	4.38

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.412	0.454	0.394	0.448	0.426	0.427	5.82
30) M	2-Butanone	0.212	0.253	0.239	0.262	0.242	0.241	7.75
31)	2,2-Dichloropropane	0.524	0.595	0.532	0.600	0.500	0.550	8.14
32) M	1,1,1-Trichloroetha	0.530	0.606	0.554	0.628	0.565	0.577	6.85
33) M	Carbon Tetrachlorid	0.507	0.575	0.504	0.565	0.514	0.533	6.40
34) M	Benzene	1.091	1.213	1.191	1.309	1.226	1.206	6.49
35)	Methacrylonitrile	0.224	0.284	0.269	0.290	0.276	0.269	9.65
36) M	1,2-Dichloroethane	0.478	0.522	0.510	0.536	0.515	0.512	4.22
37) M	Trichloroethene	0.332	0.413	0.360	0.379	0.367	0.370	8.04
38)	Methylcyclohexane	0.409	0.522	0.594	0.622	0.552	0.540	15.29
39) M	1,2-Dichloropropane	0.294	0.346	0.354	0.348	0.342	0.337	7.22
40)	Dibromomethane	0.223	0.248	0.247	0.237	0.241	0.239	4.31
41) M	Bromodichloromethan	0.443	0.542	0.549	0.585	0.528	0.529	9.99
42) M	Vinyl Acetate	0.818	0.811	0.788	0.840	0.731	0.798	5.22
43)	Ethyl Acetate	0.451	0.447	0.429	0.470	0.427	0.445	3.94
44)	Isopropyl Acetate	0.683	0.759	0.731	0.877	0.812	0.772	9.67
45) T	1,4-Dioxane	0.006	0.008	0.009	0.008	0.009	0.008#	13.36
46)	Methyl methacrylate	0.343	0.366	0.418	0.413	0.421	0.392	9.01
47)	n-amyl Acetate	0.506	0.631	0.773	0.783	0.671	0.673	16.94
48) M	t-1,3-Dichloroprope	0.445	0.596	0.610	0.638	0.596	0.577	13.11
49) T	cis-1,3-Dichloropro	0.529	0.646	0.626	0.678	0.605	0.617	9.04
50) M	1,1,2-Trichloroetha	0.279	0.353	0.375	0.363	0.342	0.342	10.98
51)	Ethyl methacrylate	0.382	0.529	0.563	0.551	0.557	0.516	14.81
52)	1,3-Dichloropropane	0.478	0.560	0.600	0.589	0.564	0.558	8.56

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.373	0.408	0.470	0.481	0.443	0.435	10.25
54) M	1,2-Dibromoethane	0.350	0.366	0.394	0.380	0.372	0.372	4.44
55) M	2-Chloroethyl vinyl	0.207	0.290	0.282	0.324	0.276	0.276	15.45
56) M	Bromoform	0.270	0.325	0.369	0.354	0.342	0.332	11.50
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.442	0.631	0.523	0.535	0.546	0.535	12.60
59) M	2-Hexanone	0.317	0.397	0.400	0.371	0.399	0.377	9.39
60) S	4-Bromofluorobenzene	0.460	0.543	0.508	0.530	0.499	0.508	6.29
61) M	Tetrachloroethene	0.431	0.454	0.404	0.380	0.375	0.409	8.19
62) M	Toluene	1.302	1.747	1.448	1.471	1.486	1.491	10.80
63) S	Toluene-d8	1.245	1.525	1.290	1.275	1.303	1.328	8.46
64) M	Chlorobenzene	0.906	0.994	0.994	0.995	0.983	0.974	3.93
65)	1,1,1,2-Tetrachloro	0.369	0.428	0.415	0.415	0.410	0.408	5.50
66) M	Ethyl Benzene	1.490	1.728	1.718	1.656	1.637	1.646	5.79
67) M	m/p-Xylenes	0.521	0.653	0.650	0.636	0.623	0.617	8.86
68) M	o-Xylene	0.522	0.638	0.640	0.636	0.627	0.613	8.32
69) M	Styrene	0.865	1.113	1.119	1.137	1.106	1.068	10.68
70)	Isopropylbenzene	1.465	1.992	1.768	1.965	1.757	1.789	11.82
71) M	1,1,2,2-Tetrachloro	0.417	0.546	0.512	0.516	0.502	0.499	9.70
72)	1,2,3-Trichloroprop	0.442	0.558	0.513	0.515	0.472	0.500	8.87
73)	Bromobenzene	0.411	0.532	0.472	0.483	0.465	0.473	9.10
74)	n-propylbenzene	1.646	2.129	2.041	2.079	2.188	2.017	10.63
75)	2-Chlorotoluene	1.048	1.273	1.222	1.305	1.219	1.213	8.17
76)	1,3,5-Trimethylbenz	1.263	1.539	1.529	1.497	1.578	1.481	8.46
77)	t-1,4-Dichloro-2-bu	0.160	0.235	0.204	0.215	0.203	0.203	13.45
78)	4-Chlorotoluene	1.252	1.482	1.456	1.410	1.473	1.414	6.74
79)	tert-butylbenzene	1.314	1.479	1.493	1.492	1.479	1.452	5.31
80)	1,2,4-Trimethylbenz	1.377	1.534	1.531	1.587	1.616	1.529	6.04
81)	sec-Butylbenzene	1.469	1.734	1.774	1.905	1.777	1.732	9.26
82)	p-Isopropyltoluene	1.326	1.688	1.686	1.716	1.620	1.607	10.02
83) M	1,3-Dichlorobenzene	0.760	0.874	0.851	0.880	0.871	0.847	5.89
84) M	1,4-Dichlorobenzene	0.749	0.884	0.852	0.853	0.877	0.843	6.44
85)	n-Butylbenzene	1.399	1.610	1.489	1.697	1.479	1.535	7.69
86) T	Hexachloroethane	0.306	0.341	0.316	0.366	0.344	0.335	7.11
87) M	1,2-Dichlorobenzene	0.804	0.900	0.813	0.908	0.823	0.849	5.89
88)	1,2-Dibromo-3-Chlor	0.120	0.144	0.139	0.155	0.146	0.141	9.18
89)	1,2,4-Trichlorobenz	0.513	0.724	0.597	0.618	0.664	0.623	12.60
90)	Hexachlorobutadiene	0.253	0.319	0.267	0.275	0.298	0.282	9.27
91) M	Naphthalene	1.351	2.173	1.774	1.870	2.027	1.839	16.99
92)	1,2,3-Trichlorobenz	0.483	0.702	0.558	0.601	0.629	0.595	13.70

(#) = Out of Range