

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\
 Method File : 624X101520W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu Oct 15 15:32:58 2020
 Response Via : Initial Calibration

Calibration Files

5 =VX018933.D 20 =VX018934.D 50 =VX018935.D
 100 =VX018936.D 150 =VX018937.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.435	1.287	1.379	1.492	1.518	1.422	6.52
3) M	Chloromethane	1.680	1.593	1.596	1.600	1.574	1.609	2.56
4) M	Vinyl Chloride	2.041	1.809	1.970	2.054	1.996	1.974	4.97
5) M	Bromomethane	1.412	1.203	1.324	0.959	0.948	1.169	17.99
6) M	Chloroethane	1.465	1.213	1.330	1.402	1.398	1.362	7.04
7) M	Trichlorofluorometh	3.262	2.823	3.059	3.199	3.197	3.108	5.65
8) T	Diethyl Ether	1.215	1.106	1.202	1.293	1.301	1.223	6.46
9)	1,1,2-Trichlorotrif	1.859	1.592	1.697	1.768	1.723	1.728	5.67
10) M	1,1-Dichloroethene	1.872	1.624	1.758	1.857	1.869	1.796	5.96
11)	Methyl Iodide	1.737	1.798	2.180	2.443	2.504	2.132	16.66
12)	Methyl Acetate	1.721	1.579	1.764	1.879	1.863	1.761	6.92
13) M	Acrolein	0.339	0.276	0.321	0.369	0.380	0.337	12.27
14) M	Acrylonitrile	0.809	0.742	0.825	0.865	0.855	0.819	5.96
15) M	Acetone	0.298	0.280	0.291	0.256	0.253	0.276	7.37
16) M	Carbon Disulfide	4.525	4.006	4.373	4.546	4.573	4.405	5.36
17)	Allyl chloride	2.415	2.105	2.302	2.427	2.404	2.330	5.81
18) M	Methylene Chloride	2.000	1.653	1.761	1.820	1.815	1.810	6.97
19) M	trans-1,2-Dichloroe	1.875	1.631	1.777	1.870	1.891	1.809	6.03
20) T	Diisopropyl ether	4.361	3.919	4.270	4.528	4.544	4.325	5.88
21) M	1,1-Dichloroethane	3.008	2.692	2.937	3.062	3.080	2.956	5.33
22) M	cis-1,2-Dichloroeth	2.033	1.835	2.043	2.153	2.175	2.048	6.58
23) M	tert-Butyl Alcohol	0.487	0.429	0.458	0.460	0.446	0.456	4.62
24) M	Methyl tert-Butyl E	4.950	4.562	4.922	5.190	5.173	4.959	5.13
25) M	Chloroform	3.185	2.857	3.126	3.253	3.267	3.138	5.32
26)	Cyclohexane	2.495	2.173	2.336	2.447	2.446	2.380	5.44
27) s	1,2-Dichloroethane-	1.964	1.938	1.890	1.892	1.884	1.914	1.86

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.441	0.394	0.436	0.456	0.448	0.435	5.55
30) M	2-Butanone	0.217	0.195	0.220	0.230	0.222	0.217	6.07
31)	2,2-Dichloropropane	0.528	0.465	0.513	0.533	0.523	0.512	5.38
32) M	1,1,1-Trichloroetha	0.535	0.475	0.533	0.554	0.543	0.528	5.81
33) M	Carbon Tetrachlorid	0.490	0.434	0.485	0.507	0.503	0.484	6.12
34) M	Benzene	1.294	1.164	1.302	1.355	1.331	1.289	5.75
35)	Methacrylonitrile	0.217	0.203	0.225	0.238	0.238	0.224	6.61
36) M	1,2-Dichloroethane	0.415	0.385	0.431	0.447	0.440	0.424	5.82
37) M	Trichloroethene	0.372	0.342	0.385	0.401	0.392	0.378	6.04
38)	Methylcyclohexane	0.505	0.447	0.499	0.519	0.509	0.496	5.69
39) M	1,2-Dichloropropane	0.316	0.283	0.320	0.332	0.325	0.315	6.04
40)	Dibromomethane	0.230	0.210	0.236	0.243	0.240	0.232	5.63
41) M	Bromodichloromethan	0.480	0.426	0.472	0.493	0.486	0.471	5.65
42) M	Vinyl Acetate	0.767	0.696	0.780	0.824	0.815	0.776	6.52
43)	Ethyl Acetate	0.504	0.391	0.436	0.464	0.448	0.449	9.26
44)	Isopropyl Acetate	0.742	0.641	0.729	0.756	0.734	0.720	6.35
45) T	1,4-Dioxane	0.008	0.007	0.008	0.008	0.008	0.008#	4.34
46)	Methyl methacrylate	0.329	0.304	0.342	0.355	0.344	0.335	5.86
47)	n-amyl Acetate	0.586	0.567	0.595	0.632	0.629	0.602	4.66
48) M	t-1,3-Dichloroprope	0.535	0.492	0.548	0.561	0.554	0.538	5.14
49) T	cis-1,3-Dichloropro	0.573	0.526	0.576	0.600	0.586	0.572	4.92
50) M	1,1,2-Trichloroetha	0.332	0.311	0.335	0.346	0.337	0.332	3.90
51)	Ethyl methacrylate	0.523	0.479	0.533	0.546	0.534	0.523	4.95
52)	1,3-Dichloropropane	0.553	0.508	0.558	0.567	0.556	0.548	4.19

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.377	0.372	0.404	0.413	0.410	0.395	4.89
54) M	1,2-Dibromoethane	0.364	0.340	0.374	0.378	0.371	0.365	4.10
55) M	2-Chloroethyl vinyl	0.281	0.254	0.277	0.288	0.280	0.276	4.69
56) M	Bromoform	0.273	0.276	0.310	0.334	0.333	0.305	9.69
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.491	0.416	0.492	0.503	0.490	0.479	7.38
59) M	2-Hexanone	0.378	0.325	0.373	0.382	0.375	0.367	6.46
60) S	4-Bromofluorobenzene	0.467	0.467	0.457	0.473	0.471	0.467	1.32
61) M	Tetrachloroethene	0.368	0.327	0.380	0.389	0.380	0.369	6.69
62) M	Toluene	1.650	1.418	1.633	1.683	1.654	1.608	6.67
63) S	Toluene-d8	1.353	1.270	1.321	1.312	1.298	1.311	2.33
64) M	Chlorobenzene	1.042	0.927	1.032	1.061	1.050	1.023	5.32
65)	1,1,1,2-Tetrachloro	0.401	0.356	0.402	0.416	0.410	0.397	5.95
66) M	Ethyl Benzene	1.805	1.619	1.793	1.861	1.830	1.782	5.32
67) M	m/p-Xylenes	0.708	0.627	0.695	0.736	0.725	0.698	6.14
68) M	o-Xylene	0.664	0.594	0.659	0.691	0.692	0.660	6.01
69) M	Styrene	1.120	1.015	1.132	1.209	1.197	1.135	6.81
70)	Isopropylbenzene	1.778	1.597	1.748	1.840	1.806	1.754	5.35
71) M	1,1,2,2-Tetrachloro	0.544	0.477	0.544	0.585	0.581	0.546	7.92
72)	1,2,3-Trichloroprop	0.518	0.458	0.514	0.538	0.524	0.510	6.01
73)	Bromobenzene	0.421	0.410	0.453	0.489	0.486	0.452	8.01
74)	n-propylbenzene	2.028	1.821	2.000	2.077	2.063	1.998	5.17
75)	2-Chlorotoluene	1.157	1.050	1.146	1.221	1.200	1.155	5.71
76)	1,3,5-Trimethylbenz	1.429	1.331	1.451	1.576	1.557	1.469	6.83
77)	t-1,4-Dichloro-2-bu	0.217	0.198	0.220	0.237	0.233	0.221	7.04
78)	4-Chlorotoluene	1.340	1.226	1.335	1.440	1.458	1.360	6.87
79)	tert-butylbenzene	1.485	1.345	1.478	1.569	1.562	1.488	6.08
80)	1,2,4-Trimethylbenz	1.453	1.318	1.452	1.545	1.550	1.463	6.44
81)	sec-Butylbenzene	1.687	1.536	1.694	1.818	1.795	1.706	6.55
82)	p-Isopropyltoluene	1.585	1.437	1.576	1.679	1.674	1.590	6.18
83) M	1,3-Dichlorobenzene	0.769	0.706	0.812	0.866	0.864	0.803	8.40
84) M	1,4-Dichlorobenzene	0.780	0.712	0.805	0.876	0.876	0.810	8.58
85)	n-Butylbenzene	1.397	1.258	1.393	1.527	1.540	1.423	8.11
86) T	Hexachloroethane	0.261	0.242	0.263	0.288	0.294	0.270	7.89
87) M	1,2-Dichlorobenzene	0.727	0.686	0.779	0.839	0.858	0.778	9.36
88)	1,2-Dibromo-3-Chlor	0.128	0.114	0.133	0.144	0.142	0.132	9.01
89)	1,2,4-Trichlorobenz	0.517	0.482	0.552	0.638	0.651	0.568	13.06
90)	Hexachlorobutadiene	0.231	0.203	0.224	0.262	0.265	0.237	11.13
91) M	Naphthalene	1.696	1.606	1.868	2.059	2.031	1.852	10.80
92)	1,2,3-Trichlorobenz	0.490	0.477	0.563	0.620	0.620	0.554	12.36

(#) = Out of Range