

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N051420W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu May 14 16:04:10 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN061392.D 20 =VN061393.D 50 =VN061394.D
 100 =VN061395.D 150 =VN061396.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.392	1.300	1.347	1.380	1.410	1.366	3.18
3) M	Chloromethane	2.801	2.561	2.500	2.344	2.281	2.497	8.18
4) M	Vinyl Chloride	3.751	3.442	3.297	3.137	3.113	3.348	7.81
5) M	Bromomethane	1.971	1.726	1.732	1.572	1.502	1.700	10.63
6) M	Chloroethane	2.679	2.354	2.224	2.055	2.013	2.265	11.85
7) M	Trichlorofluorometh	4.092	3.650	2.878	3.978	3.318	3.583	13.86
8) T	Diethyl Ether	1.235	1.113	1.124	1.102	1.123	1.140	4.75
9)	1,1,2-Trichlorotrif	1.596	1.542	1.510	1.487	1.517	1.531	2.72
10) M	1,1-Dichloroethene	1.734	1.588	1.580	1.558	1.597	1.611	4.35
11)	Methyl Iodide	1.746	1.666	1.731	1.752	1.824	1.744	3.24
12)	Methyl Acetate	2.063	1.935	1.951	1.901	1.935	1.957	3.16
13) M	Acrolein	0.428	0.313	0.310	0.305	0.291	0.330	16.93
14) M	Acrylonitrile	0.935	0.928	0.923	0.900	0.907	0.919	1.60
15) M	Acetone	0.254	0.225	0.215	0.209	0.201	0.221	9.34
16) M	Carbon Disulfide	5.263	4.959	4.708	3.974	3.746	4.530	14.29
17)	Allyl chloride	3.413	3.277	3.216	3.143	3.170	3.244	3.31
18) M	Methylene Chloride	2.144	1.845	1.909	1.875	1.950	1.945	6.07
19) M	trans-1,2-Dichloroe	2.059	1.841	1.862	1.890	1.937	1.918	4.52
20) T	Diisopropyl ether	7.902	7.596	7.545	7.365	7.344	7.551	2.98
21) M	1,1-Dichloroethane	4.042	3.963	3.955	3.881	3.873	3.943	1.76
22) M	cis-1,2-Dichloroeth	2.300	2.225	2.257	2.223	2.237	2.249	1.42
23) M	tert-Butyl Alcohol	0.329	0.305	0.291	0.270	0.277	0.294	7.99
24) M	Methyl tert-Butyl E	6.817	6.467	6.503	6.388	6.523	6.540	2.50
25) M	Chloroform	3.927	3.800	3.853	3.770	3.759	3.822	1.81
26)	Cyclohexane	4.068	3.780	3.774	3.639	3.562	3.765	5.13
27) s	1,2-Dichloroethane-	2.763	2.735	2.741	2.576	2.618	2.687	3.13

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.548	0.524	0.527	0.519	0.514	0.526	2.47
30) M	2-Butanone	0.236	0.226	0.221	0.217	0.214	0.223	3.75
31)	2,2-Dichloropropane	0.666	0.604	0.605	0.606	0.593	0.615	4.76
32) M	1,1,1-Trichloroetha	0.607	0.576	0.592	0.587	0.583	0.589	1.96
33) M	Carbon Tetrachlorid	0.436	0.432	0.454	0.469	0.470	0.452	3.86
34) M	Benzene	1.512	1.491	1.496	1.489	1.459	1.489	1.29
35)	Methacrylonitrile	0.217	0.277	0.193	0.215	0.214	0.223	14.23
36) M	1,2-Dichloroethane	0.592	0.573	0.577	0.561	0.556	0.572	2.50
37) M	Trichloroethene	0.364	0.358	0.370	0.372	0.370	0.367	1.55
38)	Methylcyclohexane	0.674	0.627	0.623	0.624	0.613	0.632	3.79
39) M	1,2-Dichloropropane	0.430	0.415	0.410	0.401	0.391	0.409	3.60
40)	Dibromomethane	0.264	0.246	0.251	0.252	0.252	0.253	2.58
41) M	Bromodichloromethan	0.552	0.544	0.558	0.547	0.543	0.549	1.12
42) M	Vinyl Acetate	1.083	1.054	1.065	1.049	1.037	1.058	1.65
43)	Ethyl Acetate	0.407	0.511	0.494	0.484	0.483	0.476	8.45
44)	Isopropyl Acetate	0.966	0.935	0.932	0.904	0.881	0.924	3.49
45) T	1,4-Dioxane	0.004	0.004	0.004	0.003	0.004	0.004#	5.02
46)	Methyl methacrylate	0.473	0.436	0.428	0.420	0.415	0.434	5.28
47)	n-amyl Acetate	0.793	0.817	0.842	0.838	0.829	0.824	2.38
48) M	t-1,3-Dichloroprope	0.631	0.640	0.660	0.655	0.651	0.647	1.82
49) T	cis-1,3-Dichloropro	0.713	0.670	0.689	0.680	0.672	0.685	2.52
50) M	1,1,2-Trichloroetha	0.360	0.340	0.353	0.349	0.347	0.350	2.05
51)	Ethyl methacrylate	0.595	0.593	0.613	0.612	0.599	0.602	1.58
52)	1,3-Dichloropropane	0.628	0.647	0.653	0.636	0.629	0.639	1.75

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.366	0.372	0.390	0.395	0.393	0.383	3.54
54) M	1,2-Dibromoethane	0.365	0.353	0.362	0.362	0.361	0.361	1.26
55) M	2-Chloroethyl vinyl	0.262	0.259	0.264	0.273	0.275	0.267	2.61
56) M	Bromoform	0.214	0.227	0.247	0.257	0.260	0.241	8.15
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.575	0.545	0.539	0.539	0.536	0.547	2.91
59) M	2-Hexanone	0.393	0.385	0.386	0.386	0.383	0.387	0.93
60) S	4-Bromofluorobenzen	0.484	0.497	0.521	0.528	0.531	0.512	4.02
61) M	Tetrachloroethene	0.363	0.364	0.380	0.384	0.384	0.375	2.79
62) M	Toluene	1.753	1.691	1.735	1.762	1.756	1.739	1.66
63) S	Toluene-d8	1.415	1.395	1.379	1.375	1.382	1.389	1.17
64) M	Chlorobenzene	1.026	0.991	1.033	1.042	1.056	1.030	2.35
65)	1,1,1,2-Tetrachloro	0.367	0.363	0.377	0.386	0.387	0.376	2.95
66) M	Ethyl Benzene	2.020	1.919	1.990	2.025	2.027	1.996	2.30
67) M	m/p-Xylenes	0.718	0.704	0.736	0.761	0.766	0.737	3.60
68) M	o-Xylene	0.672	0.681	0.713	0.719	0.732	0.704	3.63
69) M	Styrene	1.106	1.136	1.228	1.281	1.302	1.211	7.18
70)	Isopropylbenzene	1.871	1.816	1.908	1.966	1.971	1.906	3.44
71) M	1,1,2,2-Tetrachloro	0.543	0.516	0.527	0.528	0.518	0.527	2.04
72)	1,2,3-Trichloroprop	0.485	0.510	0.492	0.492	0.532	0.502	3.80
73)	Bromobenzene	0.374	0.370	0.403	0.413	0.419	0.396	5.66
74)	n-propylbenzene	2.222	2.158	2.291	2.339	2.323	2.267	3.33
75)	2-Chlorotoluene	1.250	1.251	1.321	1.343	1.334	1.300	3.51
76)	1,3,5-Trimethylbenz	1.535	1.522	1.626	1.656	1.659	1.600	4.14
77)	t-1,4-Dichloro-2-bu	0.190	0.197	0.215	0.220	0.223	0.209	7.09
78)	4-Chlorotoluene	1.268	1.291	1.392	1.422	1.432	1.361	5.62
79)	tert-butylbenzene	1.283	1.271	1.348	1.374	1.369	1.329	3.65
80)	1,2,4-Trimethylbenz	1.539	1.499	1.623	1.659	1.664	1.597	4.64
81)	sec-Butylbenzene	1.706	1.754	1.878	1.910	1.906	1.831	5.16
82)	p-Isopropyltoluene	1.531	1.563	1.677	1.738	1.734	1.649	5.84
83) M	1,3-Dichlorobenzene	0.675	0.679	0.746	0.783	0.797	0.736	7.77
84) M	1,4-Dichlorobenzene	0.644	0.681	0.754	0.777	0.786	0.728	8.59
85)	n-Butylbenzene	1.390	1.442	1.584	1.608	1.607	1.526	6.71
86) T	Hexachloroethane	0.220	0.209	0.232	0.242	0.245	0.230	6.51
87) M	1,2-Dichlorobenzene	0.624	0.665	0.715	0.744	0.742	0.698	7.47
88)	1,2-Dibromo-3-Chlor	0.109	0.113	0.114	0.113	0.112	0.112	1.69
89)	1,2,4-Trichlorobenz	0.317	0.382	0.418	0.442	0.447	0.401	13.38
90)	Hexachlorobutadiene	0.154	0.152	0.169	0.172	0.170	0.163	5.84
91) M	Naphthalene	1.009	1.178	1.323	1.385	1.413	1.261	13.33
92)	1,2,3-Trichlorobenz	0.327	0.368	0.405	0.423	0.425	0.390	10.69

(#) = Out of Range