

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N110220W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Mon Nov 02 15:45:48 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN064412.D 20 =VN064413.D 50 =VN064414.D
 100 =VN064415.D 150 =VN064416.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.936	1.931	2.013	1.912	1.856	1.930	2.91
3) M	Chloromethane	2.026	1.894	2.069	2.031	1.946	1.993	3.59
4) M	Vinyl Chloride	2.103	1.957	2.166	2.065	1.991	2.057	4.10
5) M	Bromomethane	1.474	1.290	1.367	1.315	1.265	1.342	6.19
6) M	Chloroethane	1.180	1.157	1.267	1.222	1.174	1.200	3.71
7) M	Trichlorofluorometh	3.574	3.388	3.538	3.367	3.166	3.407	4.76
8) T	Diethyl Ether	1.101	0.979	1.051	1.046	1.048	1.045	4.17
9)	1,1,2-Trichlorotrif	1.858	1.630	1.716	1.679	1.596	1.696	5.99
10) M	1,1-Dichloroethene	1.729	1.510	1.656	1.626	1.594	1.623	4.97
11)	Methyl Iodide	1.956	1.945	2.270	2.377	2.344	2.178	9.71
12)	Methyl Acetate	1.669	1.621	1.757	1.753	1.692	1.698	3.40
13) M	Acrolein	0.102	0.157	0.177	0.187	0.196	0.164	22.88
14) M	Acrylonitrile	0.694	0.715	0.808	0.807	0.796	0.764	7.21
15) M	Acetone	0.248	0.299	0.287	0.257	0.232	0.265	10.39
16) M	Carbon Disulfide	4.722	4.306	4.689	4.698	4.616	4.606	3.74
17)	Allyl chloride	2.871	2.620	2.870	3.105	2.767	2.847	6.23
18) M	Methylene Chloride	2.041	1.776	1.910	1.865	1.797	1.878	5.64
19) M	trans-1,2-Dichloroe	1.848	1.673	1.811	1.835	1.764	1.786	3.98
20) T	Diisopropyl ether	5.723	5.844	6.418	6.358	6.114	6.091	5.03
21) M	1,1-Dichloroethane	3.623	3.286	3.517	3.418	3.334	3.436	3.98
22) M	cis-1,2-Dichloroeth	2.230	1.995	2.147	2.159	2.053	2.117	4.38
23) M	tert-Butyl Alcohol	0.263	0.283	0.313	0.303	0.290	0.290	6.65
24) M	Methyl tert-Butyl E	5.870	5.483	6.018	5.932	5.735	5.808	3.59
25) M	Chloroform	3.880	3.550	3.777	3.663	3.530	3.680	4.06
26)	Cyclohexane	2.703	2.514	2.868	2.817	2.703	2.721	5.01
27) s	1,2-Dichloroethane-	2.469	2.572	2.600	2.372	2.234	2.449	6.15

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.474	0.439	0.485	0.521	0.494	0.483	6.20
30) M	2-Butanone	0.195	0.220	0.225	0.236	0.220	0.219	6.94
31)	2,2-Dichloropropane	0.623	0.552	0.589	0.617	0.582	0.593	4.89
32) M	1,1,1-Trichloroetha	0.660	0.598	0.621	0.659	0.626	0.633	4.16
33) M	Carbon Tetrachlorid	0.573	0.537	0.571	0.598	0.571	0.570	3.86
34) M	Benzene	1.395	1.276	1.338	1.434	1.395	1.368	4.50
35)	Methacrylonitrile	0.256	0.187	0.249	0.207	0.183	0.217	15.77
36) M	1,2-Dichloroethane	0.618	0.548	0.552	0.566	0.543	0.566	5.42
37) M	Trichloroethene	0.401	0.348	0.374	0.404	0.392	0.384	6.07
38)	Methylcyclohexane	0.432	0.400	0.434	0.468	0.454	0.438	5.90
39) M	1,2-Dichloropropane	0.348	0.326	0.346	0.374	0.360	0.351	5.13
40)	Dibromomethane	0.261	0.239	0.251	0.266	0.254	0.254	4.08
41) M	Bromodichloromethan	0.538	0.508	0.532	0.563	0.544	0.537	3.71
42) M	Vinyl Acetate	0.866	0.861	0.939	1.015	0.957	0.928	7.00
43)	Ethyl Acetate	0.421	0.352	0.436	0.467	0.445	0.424	10.31
44)	Isopropyl Acetate	0.692	0.713	0.763	0.819	0.787	0.755	6.92
45) T	1,4-Dioxane	0.005	0.005	0.005	0.006	0.006	0.005#	7.83
46)	Methyl methacrylate	0.332	0.347	0.380	0.410	0.394	0.373	8.69
47)	n-amyl Acetate	0.497	0.585	0.668	0.741	0.720	0.642	15.73
48) M	t-1,3-Dichloroprope	0.590	0.530	0.591	0.634	0.619	0.593	6.70
49) T	cis-1,3-Dichloropro	0.603	0.561	0.606	0.660	0.637	0.613	6.10
50) M	1,1,2-Trichloroetha	0.341	0.320	0.338	0.360	0.347	0.341	4.25
51)	Ethyl methacrylate	0.434	0.435	0.508	0.549	0.526	0.490	10.87
52)	1,3-Dichloropropane	0.538	0.547	0.581	0.618	0.594	0.576	5.75

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.401	0.377	0.414	0.458	0.446	0.419	7.86
54) M	1,2-Dibromoethane	0.364	0.338	0.363	0.388	0.375	0.365	5.01
55) M	2-Chloroethyl vinyl	0.295	0.227	0.252	0.278	0.267	0.264	9.75
56) M	Bromoform	0.264	0.253	0.297	0.338	0.326	0.296	12.53
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.464	0.445	0.478	0.501	0.487	0.475	4.49
59) M	2-Hexanone	0.317	0.344	0.366	0.376	0.365	0.353	6.67
60) S	4-Bromofluorobenzene	0.498	0.492	0.511	0.517	0.518	0.507	2.33
61) M	Tetrachloroethene	0.435	0.381	0.399	0.413	0.405	0.407	4.84
62) M	Toluene	1.807	1.547	1.628	1.721	1.699	1.680	5.85
63) S	Toluene-d8	1.356	1.324	1.340	1.342	1.328	1.338	0.94
64) M	Chlorobenzene	1.097	0.964	1.037	1.084	1.078	1.052	5.13
65)	1,1,1,2-Tetrachloro	0.390	0.385	0.408	0.431	0.430	0.409	5.30
66) M	Ethyl Benzene	1.878	1.699	1.838	1.937	1.919	1.854	5.13
67) M	m/p-Xylenes	0.677	0.636	0.702	0.738	0.733	0.697	6.03
68) M	o-Xylene	0.672	0.613	0.664	0.706	0.706	0.672	5.68
69) M	Styrene	1.033	0.989	1.131	1.220	1.230	1.121	9.66
70)	Isopropylbenzene	1.742	1.594	1.733	1.814	1.810	1.739	5.11
71) M	1,1,2,2-Tetrachloro	0.462	0.450	0.485	0.515	0.506	0.484	5.73
72)	1,2,3-Trichloroprop	0.680	0.455	0.533	0.520	0.518	0.541	15.34
73)	Bromobenzene	0.422	0.416	0.453	0.480	0.485	0.451	7.06
74)	n-propylbenzene	1.764	1.733	1.942	2.063	2.031	1.907	7.95
75)	2-Chlorotoluene	1.142	1.124	1.215	1.286	1.271	1.208	6.07
76)	1,3,5-Trimethylbenz	1.379	1.292	1.450	1.523	1.518	1.432	6.84
77)	t-1,4-Dichloro-2-bu	0.136	0.157	0.193	0.202	0.202	0.178	16.70
78)	4-Chlorotoluene	1.142	1.136	1.265	1.348	1.348	1.248	8.42
79)	tert-butylbenzene	1.063	1.059	1.149	1.241	1.216	1.146	7.34
80)	1,2,4-Trimethylbenz	1.391	1.320	1.453	1.542	1.550	1.451	6.79
81)	sec-Butylbenzene	1.369	1.312	1.464	1.539	1.541	1.445	7.09
82)	p-Isopropyltoluene	1.201	1.190	1.354	1.445	1.449	1.328	9.54
83) M	1,3-Dichlorobenzene	0.712	0.680	0.769	0.834	0.837	0.766	9.22
84) M	1,4-Dichlorobenzene	0.715	0.690	0.774	0.832	0.849	0.772	9.07
85)	n-Butylbenzene	0.875	0.955	1.090	1.183	1.197	1.060	13.35
86) T	Hexachloroethane	0.216	0.217	0.256	0.278	0.279	0.249	12.48
87) M	1,2-Dichlorobenzene	0.648	0.680	0.753	0.801	0.818	0.740	10.04
88)	1,2-Dibromo-3-Chlor	0.083	0.092	0.110	0.118	0.117	0.104	15.10
89)	1,2,4-Trichlorobenz	0.261	0.310	0.376	0.414	0.447	0.362	20.93
90)	Hexachlorobutadiene	0.194	0.173	0.197	0.199	0.201	0.193	5.77
91) M	Naphthalene	0.733	0.874	1.149	1.251	1.369	1.075	24.63
92)	1,2,3-Trichlorobenz	0.292	0.293	0.369	0.401	0.434	0.358	17.87

(#) = Out of Range