

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N061020W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Wed Jun 10 12:28:45 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN061729.D 20 =VN061730.D 50 =VN061731.D
 100 =VN061732.D 150 =VN061733.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.134	1.181	1.216	1.340	1.329	1.240	7.34
3) M	Chloromethane	1.304	1.461	1.513	1.599	1.536	1.482	7.51
4) M	Vinyl Chloride	1.854	1.992	2.101	2.198	2.198	2.069	7.10
5) M	Bromomethane	1.247	1.337	1.363	1.447	1.385	1.356	5.39
6) M	Chloroethane	1.392	1.376	1.416	1.538	1.510	1.446	5.02
7) M	Trichlorofluorometh	2.874	3.094	2.900	3.087	3.015	2.994	3.43
8) T	Diethyl Ether	0.885	0.845	0.904	1.004	1.031	0.934	8.54
9)	1,1,2-Trichlorotrif	1.666	1.392	1.472	1.552	1.574	1.531	6.79
10) M	1,1-Dichloroethene	1.466	1.369	1.476	1.596	1.637	1.509	7.14
11)	Methyl Iodide	1.742	1.892	2.006	2.272	2.367	2.056	12.67
12)	Methyl Acetate	1.211	1.050	1.138	1.279	1.324	1.200	9.13
13) M	Acrolein	0.174	0.135	0.171	0.166	0.157	0.161	9.83
14) M	Acrylonitrile	0.623	0.543	0.602	0.659	0.672	0.620	8.29
15) M	Acetone	0.216	0.173	0.174	0.186	0.178	0.185	9.59
16) M	Carbon Disulfide	2.406	3.378	3.195	3.311	3.333	3.125	13.04
17)	Allyl chloride	1.580	1.627	1.736	1.912	1.738	1.719	7.45
18) M	Methylene Chloride	1.839	1.556	1.662	1.791	1.808	1.731	6.87
19) M	trans-1,2-Dichloroe	1.575	1.515	1.652	1.796	1.850	1.678	8.49
20) T	Diisopropyl ether	4.181	3.657	3.920	4.342	4.428	4.106	7.71
21) M	1,1-Dichloroethane	2.820	2.471	2.620	2.848	2.889	2.730	6.51
22) M	cis-1,2-Dichloroeth	2.005	1.722	1.907	2.088	2.116	1.968	8.11
23) M	tert-Butyl Alcohol	0.248	0.206	0.226	0.255	0.263	0.240	9.78
24) M	Methyl tert-Butyl E	4.887	4.206	4.637	5.112	5.204	4.809	8.36
25) M	Chloroform	3.355	2.736	2.947	3.182	3.242	3.092	8.05
26)	Cyclohexane	1.668	1.892	2.132	2.339	2.391	2.084	14.61
27) s	1,2-Dichloroethane-	1.884	1.856	1.828	1.859	1.929	1.871	2.02

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.377	0.375	0.414	0.434	0.417	0.403	6.49
30) M	2-Butanone	0.145	0.129	0.137	0.147	0.140	0.140	5.23
31)	2,2-Dichloropropane	0.508	0.436	0.467	0.486	0.464	0.472	5.71
32) M	1,1,1-Trichloroetha	0.544	0.473	0.517	0.531	0.509	0.515	5.21
33) M	Carbon Tetrachlorid	0.404	0.375	0.428	0.452	0.436	0.419	7.21
34) M	Benzene	1.250	1.166	1.269	1.330	1.269	1.257	4.69
35)	Methacrylonitrile	0.138	0.137	0.117	0.129	0.127	0.130	6.52
36) M	1,2-Dichloroethane	0.440	0.366	0.400	0.420	0.405	0.406	6.75
37) M	Trichloroethene	0.399	0.359	0.389	0.413	0.399	0.392	5.17
38)	Methylcyclohexane	0.372	0.420	0.480	0.500	0.484	0.451	11.83
39) M	1,2-Dichloropropane	0.323	0.273	0.296	0.313	0.300	0.301	6.35
40)	Dibromomethane	0.231	0.206	0.226	0.239	0.227	0.226	5.44
41) M	Bromodichloromethan	0.474	0.415	0.457	0.484	0.460	0.458	5.71
42) M	Vinyl Acetate	0.568	0.533	0.582	0.616	0.581	0.576	5.20
43)	Ethyl Acetate	0.278	0.234	0.294	0.314	0.298	0.284	10.79
44)	Isopropyl Acetate	0.514	0.460	0.507	0.549	0.535	0.513	6.64
45) T	1,4-Dioxane	0.005	0.005	0.005	0.006	0.006	0.005#	8.78
46)	Methyl methacrylate	0.222	0.189	0.219	0.245	0.237	0.223	9.66
47)	n-amyl Acetate	0.388	0.357	0.436	0.506	0.486	0.435	14.55
48) M	t-1,3-Dichloroprope	0.461	0.416	0.481	0.525	0.505	0.478	8.81
49) T	cis-1,3-Dichloropro	0.523	0.468	0.524	0.558	0.538	0.522	6.41
50) M	1,1,2-Trichloroetha	0.354	0.292	0.326	0.342	0.325	0.328	7.18
51)	Ethyl methacrylate	0.379	0.365	0.430	0.487	0.471	0.426	12.63
52)	1,3-Dichloropropane	0.548	0.465	0.519	0.553	0.527	0.522	6.73

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.394	0.342	0.385	0.416	0.396	0.387	7.01
54) M	1,2-Dibromoethane	0.349	0.308	0.344	0.367	0.351	0.344	6.35
55) M	2-Chloroethyl vinyl	0.130	0.128	0.171	0.191	0.190	0.162	19.14
56) M	Bromoform	0.257	0.228	0.268	0.305	0.292	0.270	11.18
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.312	0.280	0.306	0.335	0.319	0.310	6.53
59) M	2-Hexanone	0.225	0.200	0.220	0.245	0.235	0.225	7.53
60) S	4-Bromofluorobenzen	0.421	0.436	0.448	0.451	0.456	0.442	3.20
61) M	Tetrachloroethene	0.445	0.429	0.452	0.491	0.473	0.458	5.29
62) M	Toluene	1.577	1.406	1.483	1.575	1.490	1.506	4.75
63) S	Toluene-d8	1.296	1.294	1.258	1.259	1.264	1.274	1.51
64) M	Chlorobenzene	1.028	0.885	0.944	1.018	0.970	0.969	6.00
65)	1,1,1,2-Tetrachloro	0.397	0.335	0.360	0.382	0.373	0.369	6.37
66) M	Ethyl Benzene	1.677	1.491	1.657	1.763	1.656	1.649	5.96
67) M	m/p-Xylenes	0.647	0.596	0.663	0.699	0.676	0.656	5.89
68) M	o-Xylene	0.595	0.566	0.616	0.671	0.649	0.619	6.76
69) M	Styrene	0.993	0.923	1.046	1.157	1.128	1.049	9.14
70)	Isopropylbenzene	1.634	1.479	1.653	1.753	1.662	1.636	6.06
71) M	1,1,2,2-Tetrachloro	0.481	0.393	0.426	0.454	0.419	0.435	7.77
72)	1,2,3-Trichloroprop	0.426	0.370	0.398	0.440	0.416	0.410	6.61
73)	Bromobenzene	0.449	0.393	0.436	0.474	0.458	0.442	6.95
74)	n-propylbenzene	1.872	1.678	1.873	1.982	1.843	1.850	5.91
75)	2-Chlorotoluene	1.127	0.973	1.076	1.160	1.114	1.090	6.59
76)	1,3,5-Trimethylbenz	1.354	1.228	1.360	1.471	1.407	1.364	6.55
77)	t-1,4-Dichloro-2-bu	0.124	0.131	0.145	0.171	0.169	0.148	14.67
78)	4-Chlorotoluene	1.144	1.014	1.127	1.215	1.178	1.136	6.68
79)	tert-butylbenzene	1.198	1.042	1.174	1.268	1.216	1.180	7.14
80)	1,2,4-Trimethylbenz	1.339	1.239	1.376	1.494	1.412	1.372	6.84
81)	sec-Butylbenzene	1.525	1.378	1.525	1.636	1.558	1.524	6.13
82)	p-Isopropyltoluene	1.375	1.262	1.428	1.544	1.467	1.415	7.47
83) M	1,3-Dichlorobenzene	0.825	0.700	0.776	0.837	0.808	0.789	6.96
84) M	1,4-Dichlorobenzene	0.787	0.682	0.767	0.834	0.807	0.775	7.46
85)	n-Butylbenzene	1.133	1.022	1.178	1.280	1.231	1.169	8.45
86) T	Hexachloroethane	0.208	0.156	0.188	0.203	0.207	0.193	11.41
87) M	1,2-Dichlorobenzene	0.786	0.680	0.741	0.792	0.749	0.749	5.99
88)	1,2-Dibromo-3-Chlor	0.085	0.071	0.078	0.086	0.084	0.081	7.79
89)	1,2,4-Trichlorobenz	0.401	0.373	0.440	0.494	0.489	0.439	12.15
90)	Hexachlorobutadiene	0.204	0.171	0.184	0.198	0.196	0.191	6.85
91) M	Naphthalene	1.076	1.022	1.235	1.395	1.370	1.220	13.79
92)	1,2,3-Trichlorobenz	0.412	0.375	0.423	0.472	0.472	0.430	9.64

(#) = Out of Range