

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N102020W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Tue Oct 20 11:51:57 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN064190.D 20 =VN064191.D 50 =VN064192.D
 100 =VN064193.D 150 =VN064194.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.693	1.968	2.243	2.247	2.140	2.058	11.35
3) M	Chloromethane	2.053	1.973	2.149	2.215	2.156	2.109	4.55
4) M	Vinyl Chloride	1.996	1.955	2.159	2.179	2.086	2.075	4.72
5) M	Bromomethane	1.284	1.129	1.251	1.296	1.247	1.241	5.36
6) M	Chloroethane	1.262	1.122	1.236	1.237	1.186	1.209	4.62
7) M	Trichlorofluorometh	3.466	3.255	3.297	3.394	3.245	3.331	2.86
8) T	Diethyl Ether	1.233	1.020	1.142	1.155	1.104	1.131	6.86
9)	1,1,2-Trichlorotrif	1.930	1.639	1.787	1.762	1.673	1.758	6.47
10) M	1,1-Dichloroethene	1.908	1.550	1.723	1.722	1.657	1.712	7.61
11)	Methyl Iodide	2.396	2.146	2.553	2.651	2.591	2.467	8.23
12)	Methyl Acetate	1.806	1.584	1.848	1.919	1.863	1.804	7.18
13) M	Acrolein	0.238	0.150	0.187	0.207	0.204	0.197	16.26
14) M	Acrylonitrile	0.725	0.632	0.734	0.780	0.764	0.727	7.94
15) M	Acetone	0.201	0.164	0.202	0.207	0.209	0.196	9.48
16) M	Carbon Disulfide	5.160	4.432	4.895	5.084	4.906	4.895	5.79
17)	Allyl chloride	3.396	2.850	3.398	3.220	3.052	3.183	7.38
18) M	Methylene Chloride	2.305	1.696	1.922	1.956	1.911	1.958	11.21
19) M	trans-1,2-Dichloroe	2.042	1.660	1.843	1.889	1.800	1.847	7.51
20) T	Diisopropyl ether	6.351	5.283	5.922	6.042	5.814	5.882	6.64
21) M	1,1-Dichloroethane	3.975	3.231	3.602	3.627	3.522	3.591	7.41
22) M	cis-1,2-Dichloroeth	2.423	1.952	2.130	2.171	2.118	2.159	7.87
23) M	tert-Butyl Alcohol	0.375	0.280	0.340	0.350	0.337	0.336	10.39
24) M	Methyl tert-Butyl E	6.199	5.107	5.668	5.783	5.526	5.657	7.01
25) M	Chloroform	4.160	3.328	3.768	3.788	3.612	3.731	8.10
26)	Cyclohexane	3.249	2.504	2.838	2.878	2.768	2.847	9.39
27) s	1,2-Dichloroethane-	2.502	2.553	2.484	2.409	2.333	2.456	3.50

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.516	0.446	0.505	0.517	0.507	0.498	5.94
30) M	2-Butanone	0.217	0.171	0.209	0.216	0.214	0.205	9.43
31)	2,2-Dichloropropane	0.706	0.563	0.636	0.634	0.624	0.633	8.04
32) M	1,1,1-Trichloroetha	0.677	0.557	0.644	0.657	0.639	0.635	7.25
33) M	Carbon Tetrachlorid	0.624	0.509	0.592	0.591	0.578	0.579	7.36
34) M	Benzene	1.443	1.200	1.416	1.451	1.427	1.387	7.62
35)	Methacrylonitrile	0.218	0.185	0.255	0.225	0.243	0.225	11.85
36) M	1,2-Dichloroethane	0.595	0.490	0.579	0.575	0.567	0.561	7.33
37) M	Trichloroethene	0.409	0.330	0.385	0.395	0.390	0.382	7.91
38)	Methylcyclohexane	0.529	0.409	0.482	0.488	0.475	0.477	9.07
39) M	1,2-Dichloropropane	0.390	0.323	0.376	0.383	0.379	0.370	7.24
40)	Dibromomethane	0.293	0.221	0.257	0.261	0.257	0.258	9.88
41) M	Bromodichloromethan	0.602	0.481	0.568	0.570	0.566	0.558	8.09
42) M	Vinyl Acetate	1.028	0.843	0.997	1.014	0.994	0.975	7.73
43)	Ethyl Acetate	0.478	0.381	0.454	0.469	0.461	0.449	8.64
44)	Isopropyl Acetate	0.945	0.745	0.855	0.884	0.877	0.861	8.46
45) T	1,4-Dioxane	0.006	0.004	0.005	0.005	0.005	0.005#	12.36
46)	Methyl methacrylate	0.414	0.356	0.421	0.428	0.424	0.409	7.31
47)	n-amyl Acetate	0.828	0.624	0.770	0.800	0.799	0.764	10.63
48) M	t-1,3-Dichloroprope	0.652	0.539	0.640	0.660	0.652	0.629	8.04
49) T	cis-1,3-Dichloropro	0.695	0.553	0.657	0.675	0.668	0.650	8.59
50) M	1,1,2-Trichloroetha	0.370	0.301	0.348	0.355	0.351	0.345	7.51
51)	Ethyl methacrylate	0.593	0.465	0.545	0.565	0.561	0.546	8.87
52)	1,3-Dichloropropane	0.645	0.511	0.594	0.616	0.610	0.595	8.50

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.457	0.372	0.443	0.455	0.445	0.434	8.09
54) M	1,2-Dibromoethane	0.384	0.317	0.369	0.382	0.382	0.367	7.71
55) M	2-Chloroethyl vinyl	0.239	0.241	0.284	0.295	0.282	0.268	9.81
56) M	Bromoform	0.301	0.256	0.310	0.321	0.324	0.303	9.06
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.562	0.438	0.510	0.524	0.507	0.508	8.80
59) M	2-Hexanone	0.422	0.323	0.375	0.388	0.379	0.377	9.44
60) S	4-Bromofluorobenzene	0.541	0.543	0.519	0.541	0.544	0.538	1.92
61) M	Tetrachloroethene	0.476	0.354	0.397	0.404	0.391	0.404	10.99
62) M	Toluene	1.887	1.500	1.717	1.760	1.712	1.715	8.14
63) S	Toluene-d8	1.390	1.370	1.358	1.332	1.341	1.358	1.71
64) M	Chlorobenzene	1.171	0.935	1.051	1.108	1.075	1.068	8.13
65)	1,1,1,2-Tetrachloro	0.461	0.362	0.424	0.432	0.414	0.418	8.63
66) M	Ethyl Benzene	2.147	1.742	1.981	2.026	1.964	1.972	7.48
67) M	m/p-Xylenes	0.809	0.636	0.724	0.754	0.744	0.733	8.60
68) M	o-Xylene	0.792	0.604	0.709	0.740	0.714	0.712	9.67
69) M	Styrene	1.288	1.030	1.202	1.262	1.236	1.204	8.49
70)	Isopropylbenzene	2.049	1.640	1.876	1.943	1.888	1.879	8.01
71) M	1,1,2,2-Tetrachloro	0.564	0.442	0.519	0.529	0.521	0.515	8.72
72)	1,2,3-Trichloroprop	0.598	0.452	0.532	0.559	0.547	0.537	10.02
73)	Bromobenzene	0.477	0.403	0.451	0.468	0.467	0.453	6.53
74)	n-propylbenzene	2.291	1.861	2.133	2.242	2.198	2.145	7.88
75)	2-Chlorotoluene	1.462	1.146	1.301	1.375	1.356	1.328	8.81
76)	1,3,5-Trimethylbenz	1.699	1.381	1.606	1.674	1.637	1.599	7.94
77)	t-1,4-Dichloro-2-bu	0.219	0.178	0.203	0.226	0.224	0.210	9.55
78)	4-Chlorotoluene	1.508	1.183	1.374	1.459	1.421	1.389	9.03
79)	tert-butylbenzene	1.377	1.136	1.311	1.374	1.339	1.307	7.63
80)	1,2,4-Trimethylbenz	1.780	1.420	1.586	1.688	1.643	1.623	8.25
81)	sec-Butylbenzene	1.827	1.489	1.695	1.762	1.733	1.701	7.53
82)	p-Isopropyltoluene	1.666	1.373	1.559	1.646	1.628	1.574	7.60
83) M	1,3-Dichlorobenzene	0.864	0.687	0.804	0.859	0.848	0.812	9.13
84) M	1,4-Dichlorobenzene	0.826	0.704	0.814	0.863	0.859	0.813	7.93
85)	n-Butylbenzene	1.490	1.191	1.394	1.460	1.454	1.398	8.62
86) T	Hexachloroethane	0.278	0.236	0.270	0.288	0.283	0.271	7.65
87) M	1,2-Dichlorobenzene	0.857	0.661	0.784	0.836	0.823	0.792	9.83
88)	1,2-Dibromo-3-Chlor	0.150	0.108	0.128	0.133	0.133	0.130	11.57
89)	1,2,4-Trichlorobenz	0.469	0.416	0.481	0.503	0.510	0.476	7.83
90)	Hexachlorobutadiene	0.277	0.208	0.238	0.245	0.239	0.241	10.13
91) M	Naphthalene	1.466	1.212	1.462	1.523	1.548	1.442	9.29
92)	1,2,3-Trichlorobenz	0.451	0.388	0.461	0.484	0.492	0.455	9.00

(#) = Out of Range

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