

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N072419W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Wed Jul 24 04:19:57 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN056886.D 20 =VN056887.D 50 =VN056888.D
 100 =VN056889.D 150 =VN056890.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.574	1.777	1.906	1.838	1.874	1.794	7.35
3) M	Chloromethane	2.136	2.171	2.249	2.158	2.229	2.189	2.20
4) M	Vinyl Chloride	1.989	2.092	2.164	2.125	2.180	2.110	3.60
5) M	Bromomethane	1.414	1.264	1.278	1.241	1.281	1.296	5.24
6) M	Chloroethane	1.173	1.160	1.177	1.158	1.184	1.171	0.95
7) M	Trichlorofluorometh	2.568	2.513	2.633	2.538	2.597	2.570	1.85
8) T	Diethyl Ether	0.943	0.950	0.962	0.949	0.983	0.958	1.66
9)	1,1,2-Trichlorotrif	1.671	1.571	1.630	1.585	1.612	1.614	2.43
10) M	1,1-Dichloroethene	1.566	1.561	1.632	1.599	1.650	1.602	2.47
11)	Methyl Iodide	1.980	2.239	2.527	2.518	2.584	2.369	10.80
12)	Methyl Acetate	2.977	1.810	1.768	1.620	1.624	1.960	29.33
13) M	Acrolein	0.225	0.222	0.221	0.220	0.221	0.222	0.84
14) M	Acrylonitrile	0.721	0.739	0.783	0.763	0.774	0.756	3.39
15) M	Acetone	0.192	0.196	0.202	0.194	0.193	0.195	2.12
16) M	Carbon Disulfide	3.990	4.057	4.437	4.449	4.660	4.319	6.59
17)	Allyl chloride	2.622	2.537	2.722	2.722	2.797	2.680	3.78
18) M	Methylene Chloride	1.876	1.833	1.902	1.832	1.877	1.864	1.64
19) M	trans-1,2-Dichloroe	1.653	1.634	1.743	1.702	1.742	1.695	2.96
20) T	Diisopropyl ether	5.235	5.417	5.629	5.396	5.531	5.442	2.74
21) M	1,1-Dichloroethane	3.169	3.128	3.221	3.132	3.161	3.162	1.18
22) M	cis-1,2-Dichloroeth	1.913	1.941	2.007	1.948	2.012	1.964	2.22
23) M	tert-Butyl Alcohol	0.211	0.274	0.266	0.253	0.258	0.252	9.76
24) M	Methyl tert-Butyl E	4.721	4.643	4.936	4.897	5.014	4.842	3.20
25) M	Chloroform	3.124	3.038	3.122	3.035	3.106	3.085	1.45
26)	Cyclohexane	2.682	2.789	3.028	2.979	3.047	2.905	5.55
27) s	1,2-Dichloroethane-	1.974	1.942	1.962	1.959	1.979	1.963	0.74

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.394	0.413	0.451	0.436	0.436	0.426	5.29
30) M	2-Butanone	0.164	0.169	0.178	0.174	0.170	0.171	2.99
31)	2,2-Dichloropropane	0.390	0.385	0.408	0.397	0.396	0.395	2.13
32) M	1,1,1-Trichloroetha	0.455	0.457	0.485	0.473	0.469	0.468	2.67
33) M	Carbon Tetrachlorid	0.386	0.391	0.423	0.421	0.420	0.408	4.47
34) M	Benzene	1.355	1.331	1.380	1.326	1.316	1.341	1.93
35)	Methacrylonitrile	0.166	0.183	0.141	0.182	0.182	0.171	10.58
36) M	1,2-Dichloroethane	0.424	0.413	0.428	0.414	0.406	0.417	2.19
37) M	Trichloroethene	0.362	0.350	0.371	0.357	0.358	0.360	2.14
38)	Methylcyclohexane	0.508	0.513	0.569	0.559	0.559	0.542	5.30
39) M	1,2-Dichloropropane	0.358	0.351	0.372	0.354	0.355	0.358	2.31
40)	Dibromomethane	0.223	0.215	0.225	0.219	0.216	0.220	1.80
41) M	Bromodichloromethan	0.397	0.408	0.442	0.430	0.434	0.422	4.46
42) M	Vinyl Acetate	0.679	0.746	0.810	0.791	0.783	0.762	6.80
43)	Ethyl Acetate	0.331	0.340	0.374	0.355	0.354	0.351	4.68
44)	Isopropyl Acetate	0.553	0.578	0.600	0.595	0.597	0.584	3.39
45) T	1,4-Dioxane	0.005	0.005	0.006	0.006	0.006	0.006#	5.27
46)	Methyl methacrylate	0.281	0.279	0.305	0.295	0.298	0.292	3.88
47)	n-amyl Acetate	0.364	0.431	0.502	0.515	0.528	0.468	14.78
48) M	t-1,3-Dichloroprope	0.388	0.407	0.456	0.467	0.479	0.439	9.04
49) T	cis-1,3-Dichloropro	0.461	0.488	0.533	0.534	0.543	0.512	6.91
50) M	1,1,2-Trichloroetha	0.312	0.319	0.324	0.309	0.311	0.315	2.02
51)	Ethyl methacrylate	0.401	0.439	0.479	0.481	0.481	0.456	7.85
52)	1,3-Dichloropropane	0.520	0.529	0.549	0.534	0.531	0.532	1.97

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.284	0.314	0.342	0.347	0.353	0.328	8.77
54) M	1,2-Dibromoethane	0.302	0.313	0.334	0.330	0.330	0.322	4.27
55) M	2-Chloroethyl vinyl	0.165	0.195	0.210	0.209	0.209	0.198	9.76
56) M	Bromoform	0.180	0.211	0.242	0.248	0.253	0.227	13.65
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.410	0.413	0.415	0.391	0.384	0.403	3.56
59) M	2-Hexanone	0.262	0.273	0.289	0.274	0.273	0.274	3.58
60) S	4-Bromofluorobenzen	0.400	0.441	0.462	0.469	0.476	0.450	6.88
61) M	Tetrachloroethene	0.461	0.435	0.429	0.396	0.382	0.420	7.50
62) M	Toluene	1.722	1.627	1.664	1.580	1.566	1.632	3.89
63) S	Toluene-d8	1.484	1.454	1.412	1.372	1.364	1.417	3.64
64) M	Chlorobenzene	0.994	0.966	1.004	0.969	0.980	0.983	1.65
65)	1,1,1,2-Tetrachloro	0.381	0.372	0.377	0.364	0.367	0.372	1.88
66) M	Ethyl Benzene	1.645	1.689	1.789	1.730	1.743	1.719	3.17
67) M	m/p-Xylenes	0.606	0.632	0.669	0.645	0.652	0.641	3.67
68) M	o-Xylene	0.621	0.622	0.651	0.627	0.632	0.630	1.92
69) M	Styrene	0.875	0.993	1.083	1.069	1.087	1.022	8.87
70)	Isopropylbenzene	1.582	1.649	1.719	1.663	1.685	1.660	3.06
71) M	1,1,2,2-Tetrachloro	0.465	0.475	0.474	0.453	0.456	0.465	2.13
72)	1,2,3-Trichloroprop	0.447	0.404	0.409	0.396	0.390	0.409	5.43
73)	Bromobenzene	0.403	0.415	0.441	0.437	0.445	0.428	4.29
74)	n-propylbenzene	1.593	1.741	1.910	1.898	1.932	1.815	8.01
75)	2-Chlorotoluene	1.028	1.088	1.146	1.112	1.127	1.100	4.13
76)	1,3,5-Trimethylbenz	1.334	1.380	1.455	1.403	1.415	1.397	3.21
77)	t-1,4-Dichloro-2-bu	0.102	0.116	0.136	0.141	0.148	0.128	14.74
78)	4-Chlorotoluene	0.847	1.003	1.119	1.115	1.144	1.046	11.81
79)	tert-butylbenzene	1.166	1.179	1.246	1.215	1.223	1.206	2.75
80)	1,2,4-Trimethylbenz	1.228	1.364	1.427	1.391	1.401	1.362	5.74
81)	sec-Butylbenzene	1.469	1.529	1.642	1.609	1.623	1.574	4.62
82)	p-Isopropyltoluene	1.247	1.374	1.483	1.471	1.494	1.414	7.41
83) M	1,3-Dichlorobenzene	0.547	0.634	0.713	0.730	0.747	0.674	12.34
84) M	1,4-Dichlorobenzene	0.470	0.584	0.692	0.709	0.733	0.638	17.19
85)	n-Butylbenzene	0.827	1.029	1.196	1.231	1.269	1.110	16.49
86) T	Hexachloroethane	0.202	0.225	0.246	0.251	0.259	0.237	9.70
87) M	1,2-Dichlorobenzene	0.552	0.651	0.711	0.707	0.728	0.670	10.71
88)	1,2-Dibromo-3-Chlor	0.058	0.070	0.075	0.078	0.079	0.072	11.92
89)	1,2,4-Trichlorobenz	0.161	0.247	0.349	0.414	0.445	0.323	36.51
90)	Hexachlorobutadiene	0.236	0.241	0.256	0.247	0.251	0.246	3.17
91) M	Naphthalene	0.429	0.630	0.918	1.077	1.143	0.839	36.09
92)	1,2,3-Trichlorobenz	0.220	0.292	0.380	0.424	0.454	0.354	27.31

(#) = Out of Range