

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N042325W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu Apr 24 04:42:24 2025
 Response Via : Initial Calibration

Calibration Files

5 =VN086372.D 20 =VN086373.D 50 =VN086380.D 100 =VN086379.D 150 =VN086378.D

Compound		5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	1.917	2.126	2.171	2.167	1.975	2.071	5.68
3) M	Chloromethane	3.216	2.904	2.918	3.019	2.653	2.942	6.93
4) M	Vinyl Chloride	2.886	2.817	2.859	2.876	2.651	2.818	3.44
5) M	Bromomethane	1.616	1.501	1.464	1.430	1.345	1.471	6.75
6) M	Chloroethane	2.003	1.878	1.855	1.857	1.799	1.879	4.02
7) M	Trichlorofluorom...	3.412	3.403	3.279	3.348	3.188	3.326	2.81
8) T	Diethyl Ether	1.450	1.385	1.431	1.404	1.351	1.404	2.74
9)	1,1,2-Trichlorot...	2.047	2.048	2.067	2.076	1.986	2.045	1.72
10) M	1,1-Dichloroethene	2.187	2.095	2.078	2.096	2.008	2.093	3.04
11)	Methyl Iodide	2.367	2.424	2.474	2.513	2.465	2.449	2.26
12)	Methyl Acetate	2.724	3.004	3.062	2.996	3.045	2.966	4.65
13) M	Acrolein	0.278	0.128	0.120	0.118	0.108	0.150	47.78
14) M	Acrylonitrile	1.077	1.106	1.125	1.110	1.102	1.104	1.61
15) M	Acetone	0.322	0.279	0.314	0.308	0.299	0.304	5.45
16) M	Carbon Disulfide	6.254	5.604	5.547	5.281	4.888	5.515	9.08
17)	Allyl chloride	3.566	3.253	3.306	3.383	3.225	3.346	4.09
18) M	Methylene Chloride	2.496	2.378	2.359	2.375	2.310	2.383	2.87
19) M	trans-1,2-Dichlo...	2.358	2.200	2.184	2.227	2.184	2.231	3.29
20) T	Diisopropyl ether	7.877	7.820	7.946	8.163	7.978	7.957	1.64
21) M	1,1-Dichloroethane	4.480	4.324	4.318	4.368	4.288	4.355	1.73
22) M	cis-1,2-Dichloro...	2.887	2.738	2.736	2.819	2.766	2.789	2.30
23) M	tert-Butyl Alcohol	0.458	0.454	0.430	0.400	0.395	0.428	6.87
24) M	Methyl tert-Buty...	7.806	7.711	7.760	7.761	7.625	7.733	0.89
25) M	Chloroform	4.536	4.461	4.338	4.386	4.319	4.408	2.05
26)	Cyclohexane	4.076	3.777	3.814	3.828	3.734	3.846	3.48
27) s	1,2-Dichloroetha...	2.976	2.979	2.947	2.764	2.796	2.892	3.59
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.520	0.506	0.521	0.556	0.541	0.529	3.75
30) M	2-Butanone	0.249	0.247	0.257	0.267	0.263	0.257	3.31
31)	2,2-Dichloropropane	0.689	0.658	0.662	0.699	0.690	0.680	2.68
32) M	1,1,1-Trichloroe...	0.641	0.613	0.616	0.651	0.639	0.632	2.59
33) M	Carbon Tetrachlo...	0.511	0.508	0.510	0.541	0.530	0.520	2.86
34) M	Benzene	1.686	1.635	1.641	1.748	1.701	1.682	2.76
35)	Methacrylonitrile	0.271	0.299	0.290	0.303	0.301	0.293	4.50
36) M	1,2-Dichloroethane	0.546	0.533	0.530	0.567	0.555	0.546	2.82
37) M	Trichloroethene	0.410	0.397	0.417	0.440	0.441	0.421	4.55
38)	Methylcyclohexane	0.602	0.589	0.606	0.643	0.614	0.611	3.34
39) M	1,2-Dichloropropane	0.432	0.402	0.402	0.427	0.415	0.416	3.32
40)	Dibromomethane	0.279	0.272	0.269	0.285	0.284	0.278	2.47
41) M	Bromodichloromet...	0.580	0.571	0.579	0.612	0.599	0.588	2.85
42) M	Vinyl Acetate	0.925	0.879	0.895	0.905	0.843	0.889	3.47
43)	Ethyl Acetate	0.569	0.474	0.482	0.510	0.505	0.508	7.33
44)	Isopropyl Acetate	1.032	0.932	0.939	0.967	0.951	0.964	4.17
45) T	1,4-Dioxane	0.007	0.008	0.008	0.008	0.007	0.008	2.55
46)	Methyl methacrylate	0.441	0.431	0.439	0.458	0.455	0.445	2.59
47)	n-amyl Acetate	0.751	0.783	0.802	0.867	0.906	0.822	7.70
48) M	t-1,3-Dichloropr...	0.625	0.629	0.644	0.699	0.691	0.657	5.33
49) T	cis-1,3-Dichloro...	0.668	0.664	0.682	0.732	0.721	0.693	4.47
50) M	1,1,2-Trichloroe...	0.375	0.383	0.378	0.404	0.401	0.388	3.49
51)	Ethyl methacrylate	0.630	0.647	0.671	0.718	0.714	0.676	5.81
52)	1,3-Dichloropropane	0.671	0.667	0.674	0.714	0.705	0.686	3.19
53) M	Dibromochloromet...	0.415	0.419	0.430	0.458	0.457	0.436	4.66
54) M	1,2-Dibromoethane	0.384	0.384	0.387	0.411	0.407	0.395	3.37
55) M	2-Chloroethyl vi...	0.293	0.309	0.315	0.328	0.344	0.318	6.09
56) M	Bromoform	0.253	0.274	0.277	0.302	0.308	0.283	7.85

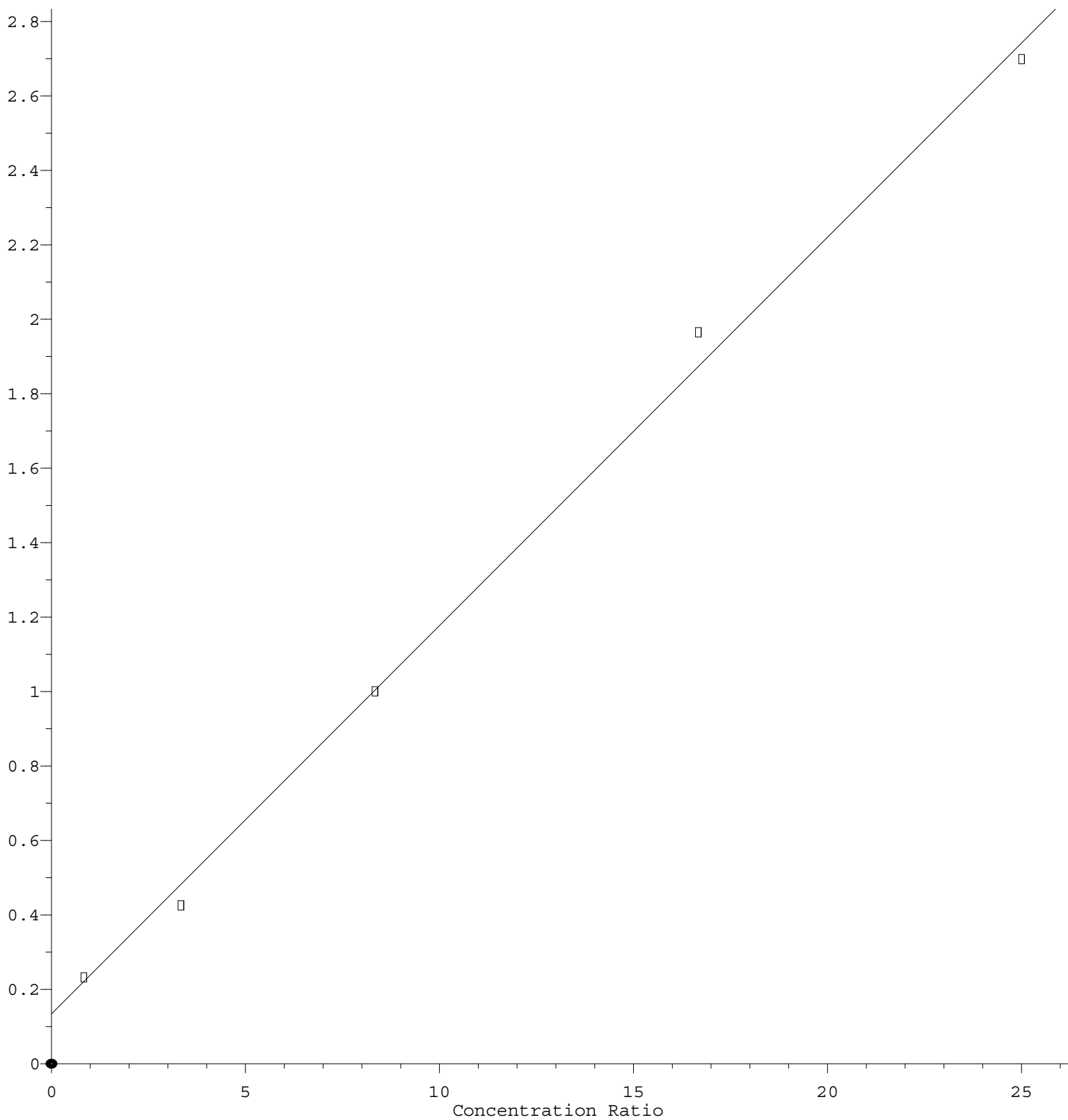
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		-----ISTD-----							
57) I	Chlorobenzene-d5								
58) M	4-Methyl-2-Penta...	0.578	0.568	0.573	0.587	0.596	0.581		1.94
59) M	2-Hexanone	0.425	0.419	0.420	0.434	0.441	0.428		2.20
60) S	4-Bromofluoroben...	0.564	0.577	0.585	0.601	0.621	0.590		3.74
61) M	Tetrachloroethene	0.475	0.432	0.441	0.468	0.471	0.458		4.26
62) M	Toluene	2.025	1.957	1.963	2.071	2.024	2.008		2.39
63) S	Toluene-d8	1.667	1.660	1.655	1.636	1.634	1.650		0.88
64) M	Chlorobenzene	1.261	1.216	1.220	1.291	1.268	1.251		2.58
65)	1,1,1,2-Tetrachl...	0.417	0.402	0.409	0.432	0.432	0.418		3.19
66) M	Ethyl Benzene	2.219	2.187	2.202	2.359	2.335	2.260		3.55
67) M	m/p-Xylenes	0.849	0.824	0.832	0.894	0.889	0.858		3.76
68) M	o-Xylene	0.825	0.804	0.816	0.876	0.878	0.840		4.13
69) M	Styrene	1.301	1.351	1.399	1.523	1.542	1.423		7.44
70)	Isopropylbenzene	1.997	2.021	2.049	2.205	2.208	2.096		4.89
71) M	1,1,2,2-Tetrachl...	0.562	0.566	0.539	0.553	0.541	0.552		2.20
72)	1,2,3-Trichlorop...	0.478	0.464	0.476	0.486	0.502	0.481		2.91
73)	Bromobenzene	0.463	0.465	0.472	0.500	0.509	0.482		4.34
74)	n-propylbenzene	2.307	2.363	2.466	2.648	2.671	2.491		6.60
75)	2-Chlorotoluene	1.510	1.494	1.521	1.610	1.639	1.555		4.20
76)	1,3,5-Trimethylb...	1.597	1.633	1.694	1.809	1.867	1.720		6.70
77)	t-1,4-Dichloro-2...	0.226	0.228	0.238	0.262	0.268	0.244		7.95
78)	4-Chlorotoluene	1.457	1.444	1.527	1.649	1.697	1.555		7.30
79)	tert-butylbenzene	1.418	1.405	1.444	1.533	1.565	1.473		4.86
80)	1,2,4-Trimethylb...	1.644	1.664	1.731	1.829	1.914	1.757		6.50
81)	sec-Butylbenzene	1.995	1.964	2.072	2.213	2.268	2.103		6.34
82)	p-Isopropyltoluene	1.579	1.610	1.749	1.884	1.976	1.759		9.74
83) M	1,3-Dichlorobenzene	0.837	0.834	0.912	0.961	1.011	0.911		8.47
84) M	1,4-Dichlorobenzene	0.841	0.825	0.891	0.951	0.991	0.900		7.86
85)	n-Butylbenzene	1.374	1.412	1.574	1.706	1.784	1.570		11.37
86) T	Hexachloroethane	0.260	0.263	0.281	0.310	0.325	0.288		9.97
87) M	1,2-Dichlorobenzene	0.830	0.800	0.860	0.906	0.938	0.867		6.46
88)	1,2-Dibromo-3-Ch...	0.110	0.102	0.113	0.116	0.120	0.112		5.99
89)	1,2,4-Trichlorob...	0.347	0.348	0.415	0.430	0.435	0.395		11.16
90)	Hexachlorobutadiene	0.160	0.142	0.165	0.168	0.161	0.159		6.33
91) M	Naphthalene	1.218	1.247	1.497	1.542	1.569	1.414		11.90
92)	1,2,3-Trichlorob...	0.347	0.348	0.415	0.430	0.435	0.395		11.16

(#) = Out of Range

Acrolein

Response Ratio



$$\text{Response} = 1.044\text{e-}001 * \text{Amt} + 1.337\text{e-}001$$

Coef of Det (r^2) = 0.996125 Curve Fit: wlr(1/a)

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Calibration Table Last Updated: Thu Apr 24 04:42:24 2025