

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N050523W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Sat May 06 05:13:38 2023
 Response Via : Initial Calibration

Calibration Files

5 =VN077599.D 20 =VN077601.D 50 =VN077602.D 100 =VN077604.D 10 =VN077600.D 75 =VN077603.D

	Compound	5	20	50	100	10	75	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----							
2) M	Dichlorodifluo...	2.153	2.100	2.087	2.129	2.196	2.210	2.146	2.35
3) M	Chloromethane	1.805	1.595	1.588	1.646	1.674	1.702	1.668	4.80
4) M	Vinyl Chloride	2.122	2.040	2.052	2.111	2.121	2.225	2.112	3.13
5) M	Bromomethane	1.743	1.438	1.448	1.521	1.542	1.517	1.535	7.19
6) M	Chloroethane	1.716	1.362	1.366	1.352	1.455	1.441	1.448	9.53
7) M	Trichlorofluor...	3.413	3.015	2.991	3.280	3.097	3.245	3.174	5.23
8) T	Diethyl Ether	1.173	1.138	1.108	1.130	1.124	1.172	1.141	2.33
9)	1,1,2-Trichlor...	1.820	1.724	1.691	1.721	1.713	1.792	1.743	2.91
10) M	1,1-Dichloroet...	1.707	1.600	1.604	1.662	1.655	1.725	1.659	3.10
11)	Methyl Iodide	1.994	1.917	2.032	2.144	1.892	2.205	2.030	6.11
12)	Methyl Acetate	2.816	2.832	2.841	2.918	2.848	3.010	2.877	2.56
13) M	Acrolein	0.349	0.318	0.309	0.329	0.330	0.330	0.328	4.08
14) M	Acrylonitrile	0.887	0.821	0.825	0.853	0.841	0.867	0.849	3.00
15) M	Acetone	0.251	0.217	0.220	0.222	0.226	0.230	0.228	5.35
16) M	Carbon Disulfide	4.248	3.809	3.982	4.164	3.930	4.244	4.063	4.48
17)	Allyl chloride	2.202	1.956	2.019	2.036	2.000	2.096	2.052	4.23
18) M	Methylene Chlo...	2.222	1.949	1.867	1.950	1.988	2.017	1.999	6.02
19) M	trans-1,2-Dich...	1.830	1.794	1.775	1.855	1.768	1.911	1.822	3.00
20) T	Diisopropyl ether	4.881	4.824	4.786	5.041	4.911	5.175	4.936	2.96
21) M	1,1-Dichloroet...	3.514	3.210	3.271	3.297	3.241	3.429	3.327	3.56
22) M	cis-1,2-Dichlo...	2.238	2.120	2.154	2.192	2.199	2.298	2.200	2.85
23) M	tert-Butyl Alc...	0.335	0.342	0.333	0.349	0.334	0.356	0.341	2.77
24) M	Methyl tert-Bu...	5.948	5.898	5.862	6.140	5.989	6.287	6.021	2.70
25) M	Chloroform	3.889	3.659	3.591	3.663	3.689	3.869	3.726	3.29
26)	Cyclohexane	2.712	2.584	2.674	2.727	2.731	2.815	2.707	2.81
27) s	1,2-Dichloroet...	2.466	2.406	2.385	2.435	2.521	2.363	2.429	2.38
28) I	1,4-Difluorobenzene	-----ISTD-----							
29)	1,1-Dichloropr...	0.442	0.441	0.448	0.426	0.413	0.465	0.440	4.09
30) M	2-Butanone	0.181	0.179	0.177	0.169	0.176	0.185	0.178	2.99
31)	2,2-Dichloropr...	0.509	0.480	0.477	0.463	0.459	0.517	0.484	4.90
32) M	1,1,1-Trichlor...	0.604	0.569	0.565	0.553	0.558	0.612	0.577	4.31
33) M	Carbon Tetrach...	0.492	0.480	0.473	0.466	0.448	0.516	0.479	4.85
34) M	Benzene	1.414	1.370	1.319	1.277	1.351	1.406	1.356	3.84
35)	Methacrylonitrile	0.200	0.199	0.197	0.181	0.192	0.215	0.197	5.59
36) M	1,2-Dichloroet...	0.521	0.492	0.462	0.440	0.481	0.499	0.482	5.93
37) M	Trichloroethene	0.350	0.330	0.321	0.317	0.319	0.349	0.331	4.59
38)	Methylcyclohexane	0.554	0.556	0.555	0.546	0.496	0.605	0.552	6.28
39) M	1,2-Dichloropr...	0.337	0.327	0.319	0.309	0.308	0.341	0.323	4.24
40)	Dibromomethane	0.256	0.251	0.243	0.230	0.244	0.260	0.247	4.26
41) M	Bromodichlorom...	0.484	0.496	0.479	0.483	0.468	0.530	0.490	4.40
42) M	Vinyl Acetate	0.525	0.521	0.510	0.512	0.494	0.553	0.519	3.84
43)	Ethyl Acetate	0.369	0.358	0.350	0.347	0.377	0.395	0.366	4.99
44)	Isopropyl Acetate	0.633	0.627	0.622	0.613	0.604	0.675	0.629	3.91
45) T	1,4-Dioxane	0.007	0.007	0.007	0.006	0.006	0.007	0.007	4.83
46)	Methyl methacr...	0.285	0.287	0.281	0.282	0.281	0.305	0.287	3.28
47)	n-amyl Acetate	0.410	0.482	0.526	0.543	0.422	0.575	0.493	13.55
48) M	t-1,3-Dichloro...	0.456	0.478	0.499	0.512	0.445	0.551	0.490	7.96
49) T	cis-1,3-Dichlo...	0.517	0.528	0.551	0.547	0.488	0.595	0.538	6.71
50) M	1,1,2-Trichlor...	0.366	0.347	0.343	0.331	0.337	0.366	0.349	4.24
51)	Ethyl methacry...	0.501	0.502	0.519	0.511	0.470	0.560	0.511	5.77
52)	1,3-Dichloropr...	0.601	0.588	0.576	0.552	0.582	0.617	0.586	3.74
53) M	Dibromochlorom...	0.330	0.353	0.359	0.357	0.332	0.399	0.355	7.11
54) M	1,2-Dibromoethane	0.352	0.347	0.356	0.345	0.339	0.380	0.353	4.08
55) M	2-Chloroethyl ...	0.150	0.162	0.172	0.176	0.161	0.195	0.170	9.12
56) M	Bromoform	0.192	0.206	0.222	0.233	0.178	0.252	0.214	12.76

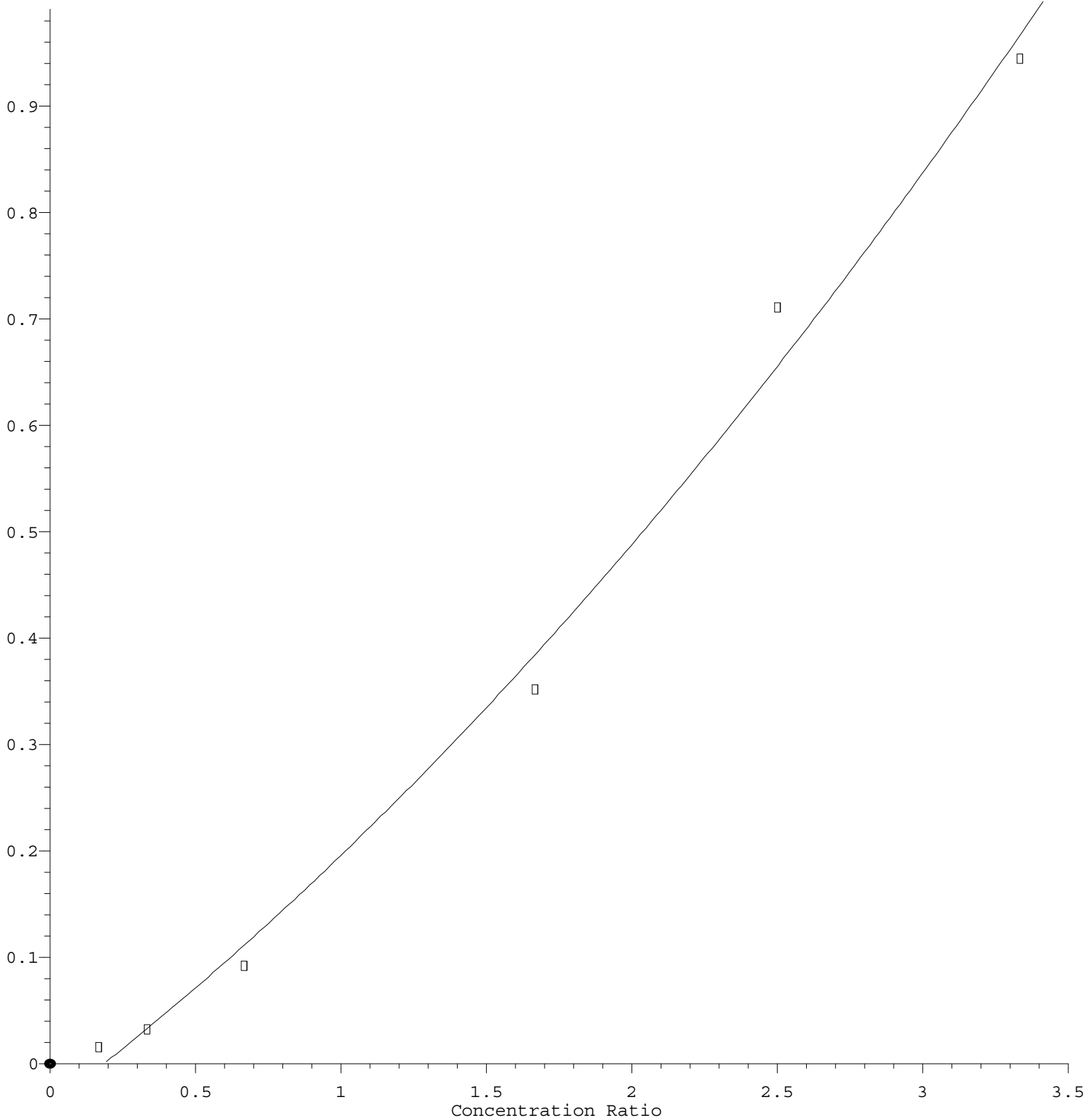
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 Method File : 624N050523W.M

		-----ISTD-----							
57) I	Chlorobenzene-d5								
58) M	4-Methyl-2-Pen...	0.434	0.427	0.407	0.391	0.423	0.430	0.419	3.89
59) M	2-Hexanone	0.309	0.307	0.293	0.289	0.298	0.317	0.302	3.47
60) S	4-Bromofluorob...	0.449	0.480	0.482	0.496	0.464	0.486	0.476	3.56
61) M	Tetrachloroethene	0.275	0.292	0.270	0.262	0.278	0.287	0.277	3.94
62) M	Toluene	1.805	1.700	1.625	1.568	1.685	1.738	1.687	4.94
63) S	Toluene-d8	1.454	1.461	1.380	1.374	1.447	1.369	1.414	3.09
64) M	Chlorobenzene	1.019	1.013	0.975	0.962	0.984	1.049	1.000	3.24
65) M	1,1,1,2-Tetrac...	0.363	0.384	0.360	0.349	0.354	0.383	0.365	4.04
66) M	Ethyl Benzene	1.827	1.854	1.801	1.774	1.737	1.952	1.824	4.10
67) M	m/p-Xylenes	0.691	0.710	0.688	0.684	0.659	0.741	0.696	3.98
68) M	o-Xylene	0.691	0.695	0.686	0.678	0.668	0.737	0.692	3.48
69) M	Styrene	1.042	1.109	1.099	1.115	0.965	1.211	1.090	7.53
70) M	Isopropylbenzene	1.713	1.819	1.803	1.782	1.638	1.940	1.782	5.73
71) M	1,1,2,2-Tetrac...	0.579	0.554	0.534	0.535	0.548	0.576	0.554	3.48
72) M	1,2,3-Trichlor...	0.492	0.488	0.467	0.454	0.459	0.503	0.477	4.13
73) M	Bromobenzene	0.364	0.371	0.366	0.368	0.343	0.396	0.368	4.64
74) M	n-propylbenzene	1.804	1.998	2.043	2.045	1.748	2.229	1.978	8.91
75) M	2-Chlorotoluene	1.165	1.253	1.239	1.235	1.141	1.355	1.231	6.13
76) M	1,3,5-Trimethy...	1.114	1.411	1.482	1.493	1.157	1.622	1.380	14.59
77) M	t-1,4-Dichloro...	0.115	0.136	0.156	0.165	0.119	0.177	0.145	17.48
78) M	4-Chlorotoluene	1.069	1.176	1.188	1.203	1.053	1.296	1.164	7.79
79) M	tert-butylbenzene	1.244	1.280	1.280	1.274	1.163	1.381	1.270	5.53
80) M	1,2,4-Trimethy...	0.954	1.262	1.433	1.470	0.997	1.592	1.285	20.42
81) M	sec-Butylbenzene	1.561	1.786	1.824	1.856	1.547	2.006	1.763	10.13
82) M	p-Isopropyltol...	1.124	1.355	1.456	1.487	1.125	1.587	1.355	14.30
83) M	1,3-Dichlorobe...	0.603	0.665	0.675	0.682	0.589	0.730	0.657	8.01
84) M	1,4-Dichlorobe...	0.568	0.651	0.668	0.687	0.568	0.738	0.647	10.44
85) M	n-Butylbenzene	0.755	1.007	1.184	1.293	0.780	1.374	1.065	24.56
86) T	Hexachloroethane	0.230	0.261	0.275	0.285	0.234	0.305	0.265	11.06
87) M	1,2-Dichlorobe...	0.595	0.675	0.681	0.684	0.613	0.737	0.664	7.83
88) M	1,2-Dibromo-3-...	0.104	0.098	0.107	0.106	0.100	0.116	0.105	5.87
89) M	1,2,4-Trichlor...	0.094	0.138	0.211	0.283	0.097	0.284	0.185	47.56
90) M	Hexachlorobuta...	0.132	0.133	0.136	0.140	0.114	0.152	0.134	9.26
91) M	Naphthalene	0.254	0.493	0.814	1.094	0.306	1.087	0.674	55.91
92) M	1,2,3-Trichlor...	0.082	0.130	0.199	0.267	0.091	0.260	0.172	48.01

(#) = Out of Range

1,2,4-Trichlorobenzene

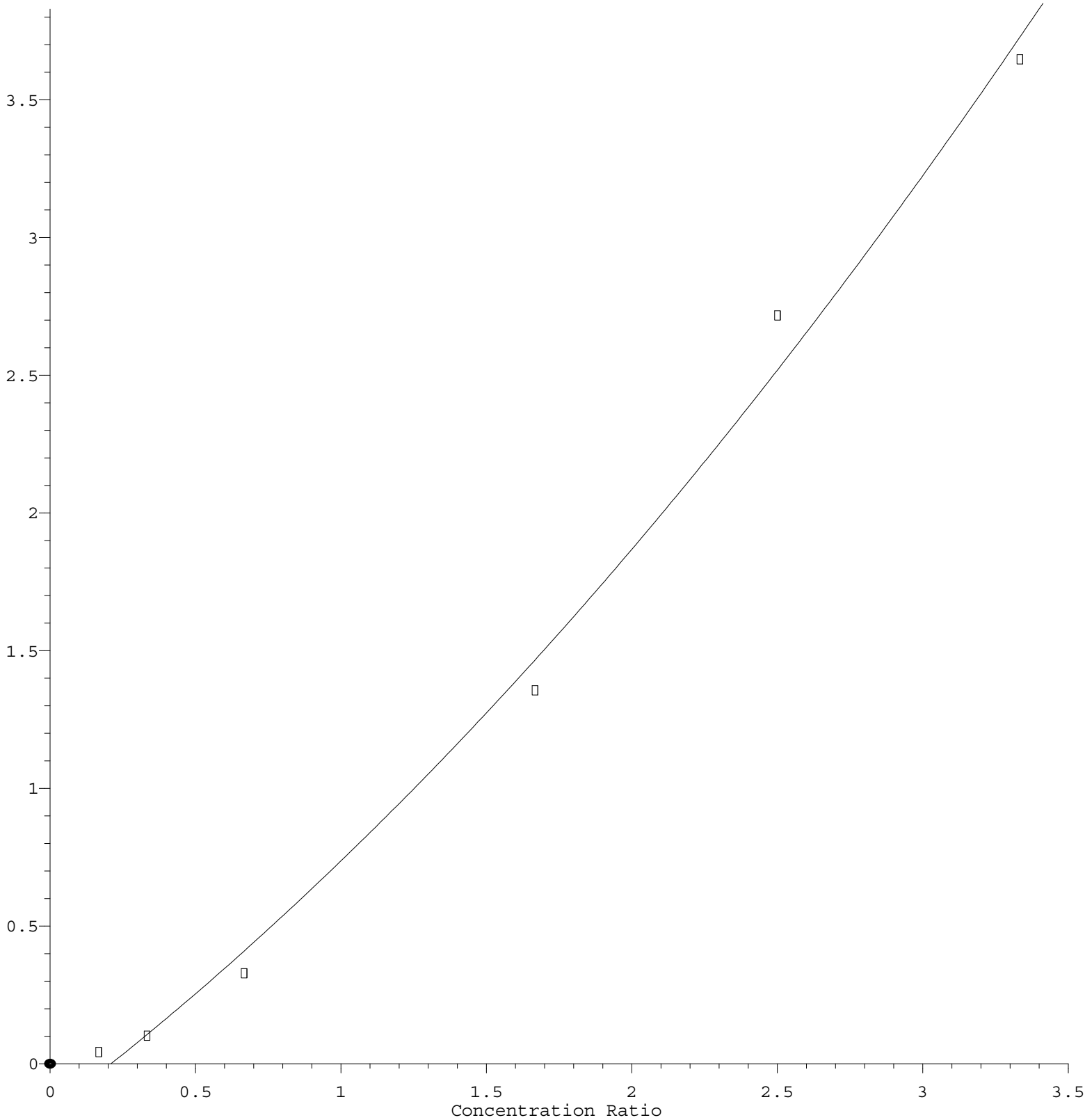
Response Ratio



$R = 2.864e-002 A^2 + 2.062e-001 A - 3.895e-002$
 Coef of Det (r^2) = 0.993007 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\624N050523W.M
 Calibration Table Last Updated: Sat May 06 05:13:38 2023

Naphthalene

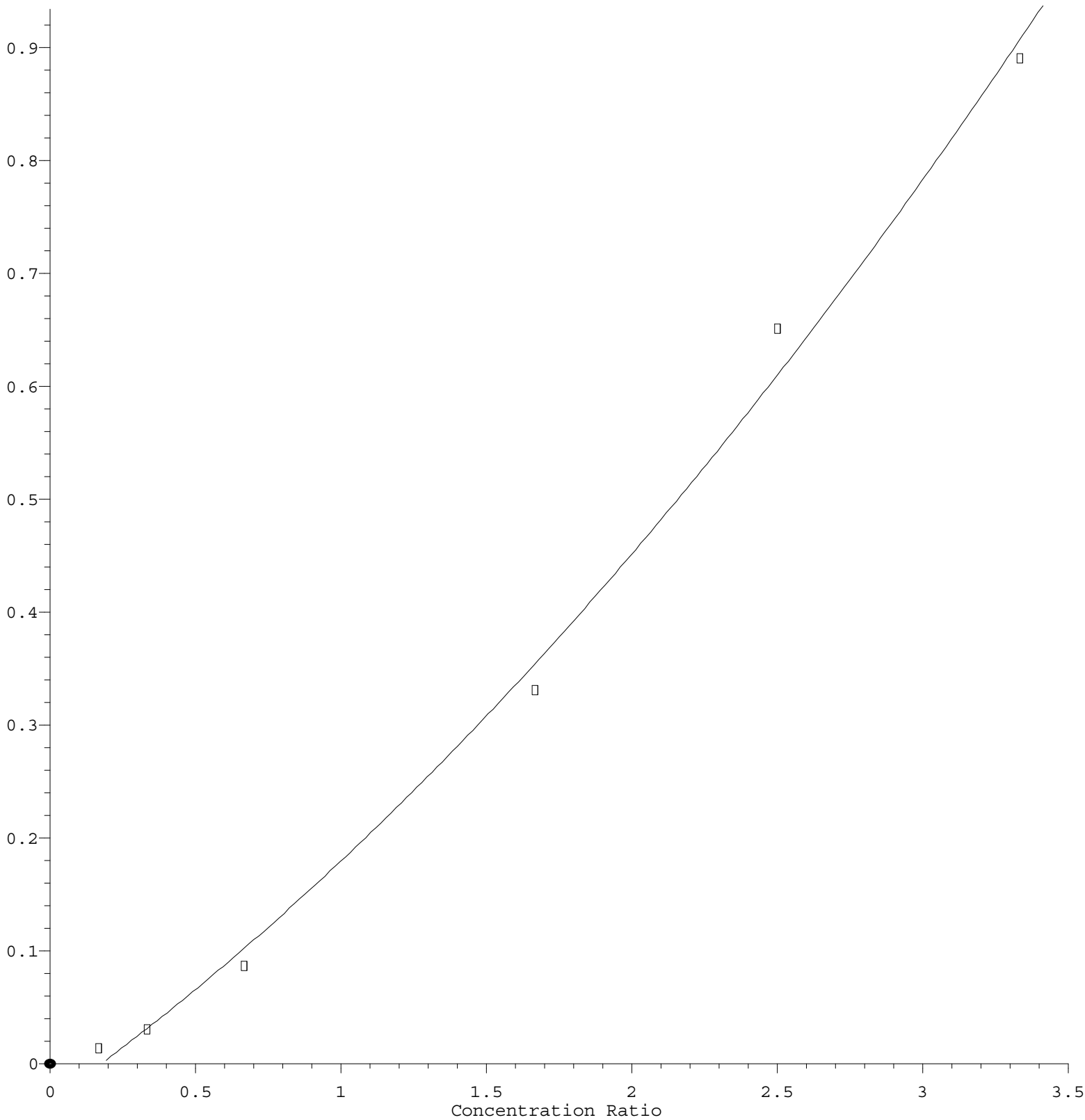
Response Ratio



$R = 1.123e-001 A^2 + 7.953e-001 A - 1.712e-001$
 Coef of Det (r^2) = 0.993844 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\624N050523W.M
 Calibration Table Last Updated: Sat May 06 05:13:38 2023

1,2,3-Trichlorobenzene

Response Ratio



$R = 2.976e-002 A^2 + 1.828e-001 A - 3.298e-002$
 Coef of Det (r^2) = 0.995524 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\624N050523W.M
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