

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y082923S.M
 Title : SW846 8260
 Last Update : Thu Aug 31 16:31:54 2023
 Response Via : Initial Calibration

Calibration Files

5 =VY015358.D 10 =VY015359.D 20 =VY015360.D 50 =VY015361.D 100 =VY015362.D 150 =VY015363.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.414	0.433	0.434	0.459	0.442	0.426	0.435	3.47
3) P	Chloromethane	0.578	0.577	0.570	0.617	0.575	0.545	0.577	4.02
4) C	Vinyl Chloride	0.661	0.666	0.670	0.713	0.680	0.640	0.672	3.61#
5) T	Bromomethane	0.535	0.524	0.489	0.501	0.457	0.362	0.478	13.15
6) T	Chloroethane	0.423	0.447	0.450	0.461	0.448	0.421	0.442	3.64
7) T	Trichlorofluor...	0.899	0.976	0.959	0.990	0.963	0.915	0.950	3.77
8) T	Diethyl Ether	0.295	0.324	0.332	0.350	0.331	0.317	0.325	5.57
9) T	1,1,2-Trichlor...	0.495	0.532	0.533	0.553	0.530	0.517	0.527	3.66
10) T	Methyl Iodide	0.504	0.552	0.595	0.693	0.692	0.674	0.619	12.99
11) T	Tert butyl alc...	0.115	0.143	0.167	0.119	0.103	0.098	0.124	20.96
12) CM	1,1-Dichloroet...	0.465	0.495	0.504	0.520	0.505	0.493	0.497	3.65#
13) T	Acrolein	0.080	0.098	0.097	0.176	0.154	0.151	0.126	30.98
14) T	Allyl chloride	0.685	0.771	0.787	0.850	0.834	0.820	0.791	7.55
15) T	Acrylonitrile	0.195	0.196	0.198	0.229	0.207	0.201	0.204	6.37
16) T	Acetone	0.220	0.202	0.199	0.279	0.229	0.213	0.224	12.94
17) T	Carbon Disulfide	1.353	1.453	1.472	1.572	1.543	1.523	1.486	5.29
18) T	Methyl Acetate	0.759	0.773	0.806	0.909	0.823	0.792	0.810	6.59
19) T	Methyl tert-bu...	1.480	1.566	1.589	1.770	1.667	1.622	1.615	6.07
20) T	Methylene Chlo...	1.418	1.098	0.881	0.731	0.631	0.591	0.892	35.60
21) T	trans-1,2-Dich...	0.531	0.563	0.571	0.604	0.588	0.577	0.572	4.31
22) T	Diisopropyl ether	1.581	1.664	1.711	1.840	1.811	1.777	1.731	5.63
23) T	Vinyl Acetate	0.976	1.037	1.057	1.203	1.156	1.127	1.093	7.68
24) P	1,1-Dichloroet...	0.969	0.988	1.002	1.036	1.013	0.995	1.001	2.28
25) T	2-Butanone	0.300	0.298	0.302	0.375	0.323	0.306	0.317	9.42
26) T	2,2-Dichloropr...	0.794	0.861	0.858	0.885	0.867	0.834	0.850	3.75
27) T	cis-1,2-Dichlo...	0.605	0.640	0.649	0.690	0.664	0.647	0.649	4.32
28) T	Bromochloromet...	0.305	0.315	0.329	0.310	0.296	0.286	0.307	4.86
29) T	Tetrahydrofuran	0.190	0.188	0.192	0.226	0.205	0.193	0.199	7.29
30) C	Chloroform	1.004	1.053	1.058	1.096	1.064	1.036	1.052	2.91#
31) T	Cyclohexane	1.005	0.971	0.945	0.953	0.932	0.907	0.952	3.53
32) T	1,1,1-Trichlor...	0.864	0.942	0.935	0.988	0.960	0.948	0.939	4.38
33) S	1,2-Dichloroet...	0.511	0.574	0.567	0.539	0.520	0.505	0.536	5.49
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.247	0.314	0.297	0.296	0.289	0.285	0.288	7.76
36) T	1,1-Dichloropr...	0.468	0.507	0.511	0.524	0.517	0.506	0.506	3.89
37) T	Ethyl Acetate	0.358	0.399	0.373	0.436	0.393	0.381	0.390	6.90
38) T	Carbon Tetrach...	0.484	0.513	0.516	0.547	0.546	0.528	0.522	4.52
39) T	Methylcyclohexane	0.584	0.613	0.632	0.669	0.667	0.656	0.637	5.29
40) TM	Benzene	1.319	1.383	1.408	1.486	1.455	1.414	1.411	4.13
41) T	Methacrylonitrile	0.169	0.178	0.178	0.206	0.189	0.177	0.183	7.10
42) TM	1,2-Dichloroet...	0.450	0.466	0.468	0.505	0.475	0.458	0.470	4.08
43) T	Isopropyl Acetate	0.616	0.637	0.642	0.753	0.711	0.687	0.674	7.71
44) TM	Trichloroethene	0.383	0.397	0.401	0.416	0.403	0.395	0.399	2.66
45) C	1,2-Dichloropr...	0.340	0.343	0.351	0.378	0.366	0.357	0.356	4.00#
46) T	Dibromomethane	0.229	0.230	0.233	0.253	0.240	0.233	0.236	3.82
47) T	Bromodichlorom...	0.466	0.494	0.498	0.541	0.518	0.515	0.505	5.02
48) T	Methyl methacr...	0.266	0.293	0.301	0.350	0.328	0.319	0.309	9.52
49) T	1,4-Dioxane	0.004	0.004	0.004	0.005	0.005	0.004	0.004	6.52
50) S	Toluene-d8	0.980	1.094	1.096	1.043	1.039	1.004	1.043	4.48
51) T	4-Methyl-2-Pen...	0.360	0.370	0.377	0.447	0.409	0.389	0.392	8.11
52) CM	Toluene	0.814	0.882	0.910	0.965	0.937	0.918	0.904	5.77#
53) T	t-1,3-Dichloro...	0.466	0.501	0.514	0.589	0.583	0.568	0.537	9.34
54) T	cis-1,3-Dichlo...	0.521	0.559	0.571	0.630	0.616	0.607	0.584	7.05
55) T	1,1,2-Trichlor...	0.292	0.316	0.311	0.343	0.329	0.319	0.318	5.36
56) T	Ethyl methacry...	0.392	0.434	0.456	0.529	0.517	0.503	0.472	11.31

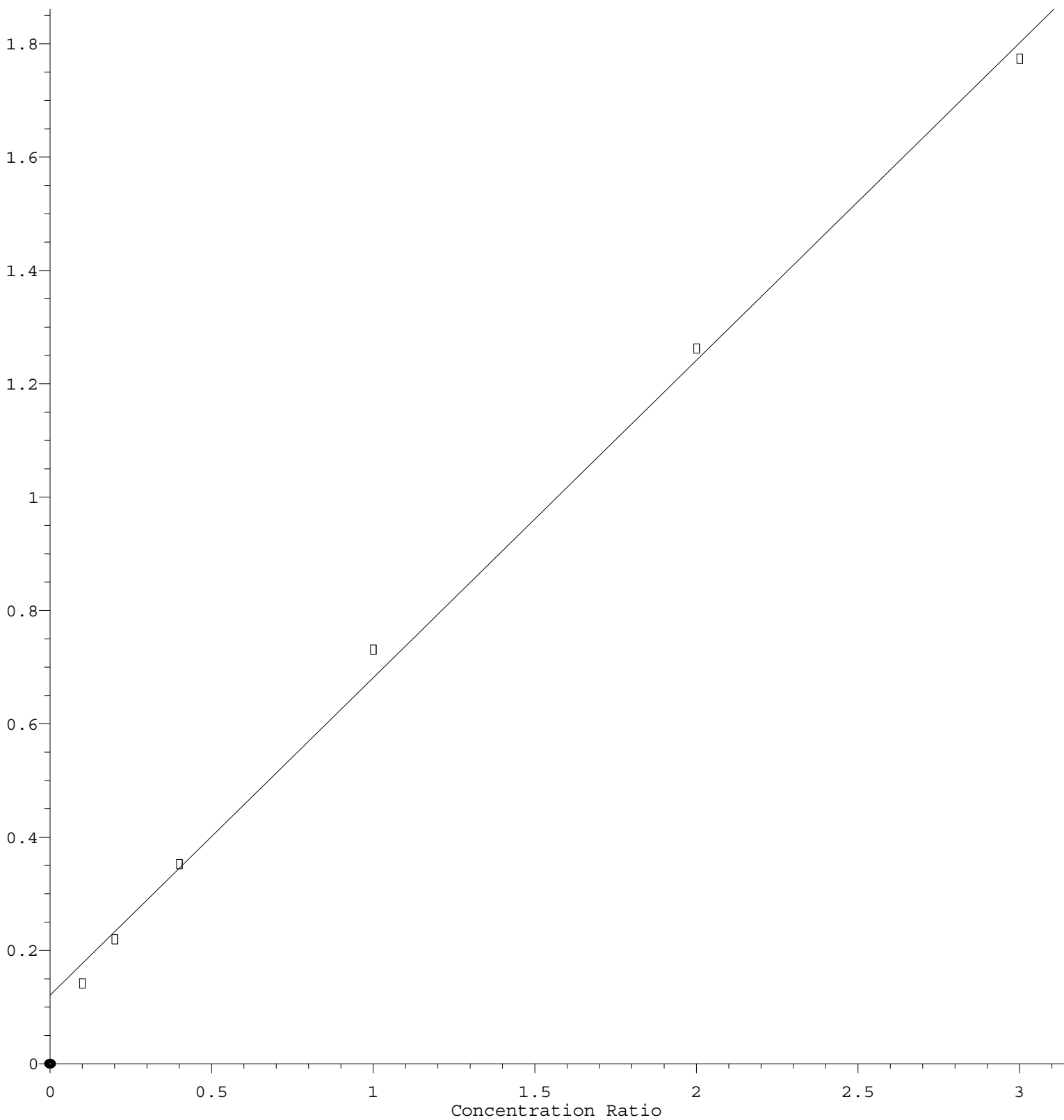
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57)	T	1,3-Dichloropr...	0.509	0.542	0.542	0.589	0.562	0.543	0.548	4.81
58)	T	2-Chloroethyl ...	0.157	0.163	0.175	0.175	0.175	0.165	0.168	4.53
59)	T	2-Hexanone	0.268	0.275	0.276	0.344	0.310	0.292	0.294	9.77
60)	T	Dibromochlorom...	0.333	0.354	0.366	0.404	0.394	0.385	0.373	7.16
61)	T	1,2-Dibromoethane	0.293	0.317	0.317	0.351	0.333	0.324	0.323	6.00
62)	S	4-Bromofluorob...	0.364	0.400	0.399	0.393	0.388	0.381	0.387	3.49
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.430	0.458	0.471	0.475	0.452	0.436	0.454	3.99
65)	PM	Chlorobenzene	1.023	1.076	1.084	1.114	1.090	1.078	1.077	2.80
66)	T	1,1,1,2-Tetrac...	0.364	0.379	0.396	0.410	0.411	0.407	0.394	4.84
67)	C	Ethyl Benzene	1.795	1.857	1.964	1.998	2.002	1.993	1.935	4.53#
68)	T	m/p-Xylenes	0.680	0.730	0.762	0.777	0.780	0.770	0.750	5.15
69)	T	o-Xylene	0.651	0.694	0.727	0.747	0.740	0.742	0.717	5.23
70)	T	Styrene	1.052	1.141	1.212	1.284	1.263	1.278	1.205	7.65
71)	P	Bromoform	0.237	0.253	0.263	0.309	0.295	0.294	0.275	10.18
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.478	3.717	3.725	3.833	3.857	3.924	3.756	4.19
74)	T	N-amyl acetate	1.072	1.151	1.190	1.406	1.369	1.383	1.262	11.23
75)	P	1,1,2,2-Tetrac...	0.837	0.856	0.863	0.950	0.934	0.940	0.897	5.56
76)	T	1,2,3-Trichlor...	0.647	0.657	0.636	0.716	0.646	0.676	0.663	4.41
77)	T	Bromobenzene	0.830	0.899	0.881	0.911	0.902	0.914	0.890	3.51
78)	T	n-propylbenzene	4.149	4.466	4.548	4.720	4.673	4.711	4.544	4.80
79)	T	2-Chlorotoluene	2.369	2.537	2.520	2.625	2.605	2.636	2.549	3.91
80)	T	1,3,5-Trimethy...	2.828	3.119	3.152	3.252	3.242	3.255	3.141	5.21
81)	T	trans-1,4-Dich...	0.276	0.267	0.273	0.325	0.328	0.335	0.301	10.57
82)	T	4-Chlorotoluene	2.456	2.604	2.626	2.740	2.714	2.754	2.649	4.24
83)	T	tert-Butylbenzene	2.525	2.698	2.748	2.852	2.833	2.853	2.751	4.64
84)	T	1,2,4-Trimethy...	2.818	3.111	3.109	3.242	3.215	3.218	3.119	5.07
85)	T	sec-Butylbenzene	3.736	4.057	4.115	4.241	4.237	4.237	4.104	4.77
86)	T	p-Isopropyltol...	3.071	3.394	3.438	3.590	3.562	3.582	3.440	5.75
87)	T	1,3-Dichlorobe...	1.666	1.757	1.729	1.810	1.775	1.799	1.756	3.01
88)	T	1,4-Dichlorobe...	1.742	1.779	1.771	1.816	1.775	1.767	1.775	1.35
89)	T	n-Butylbenzene	2.931	3.188	3.227	3.363	3.368	3.348	3.237	5.19
90)	T	Hexachloroethane	0.546	0.606	0.599	0.637	0.646	0.657	0.615	6.60
91)	T	1,2-Dichlorobe...	1.532	1.588	1.588	1.673	1.620	1.616	1.603	2.90
92)	T	1,2-Dibromo-3-...	0.175	0.165	0.169	0.195	0.183	0.178	0.177	6.16
93)	T	1,2,4-Trichlor...	0.911	0.994	0.995	1.068	1.033	1.039	1.006	5.44
94)	T	Hexachlorobuta...	0.526	0.570	0.546	0.550	0.555	0.546	0.549	2.61
95)	T	Naphthalene	2.154	2.340	2.385	2.769	2.649	2.661	2.493	9.46
96)	T	1,2,3-Trichlor...	0.839	0.924	0.885	0.959	0.950	0.951	0.918	5.16

(#) = Out of Range

Methylene Chloride

Response Ratio



$$\text{Response} = 5.605\text{e-}001 * \text{Amt} + 1.208\text{e-}001$$

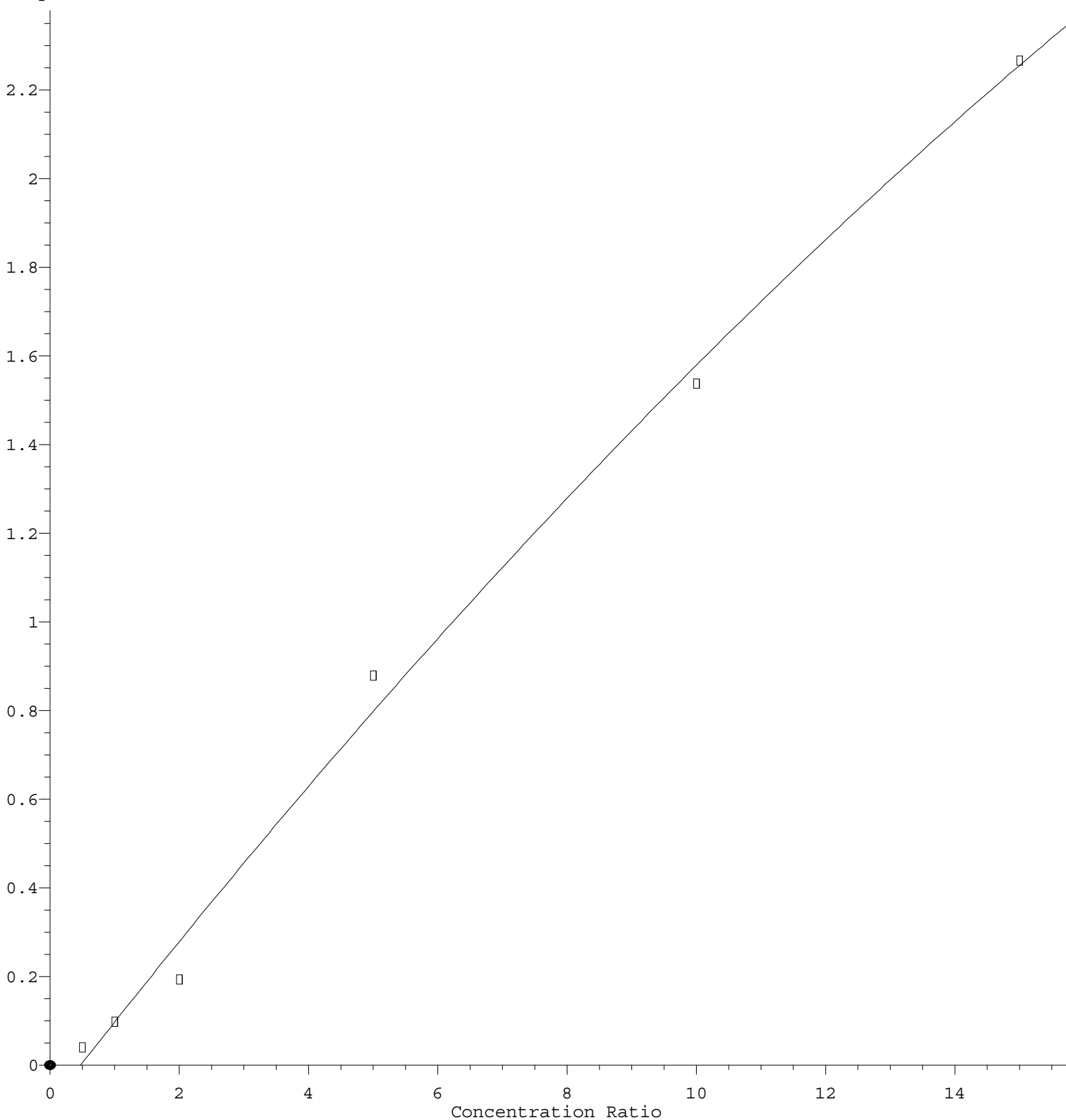
Coef of Det (r^2) = 0.997558 Curve Fit: Linear

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Acrolein

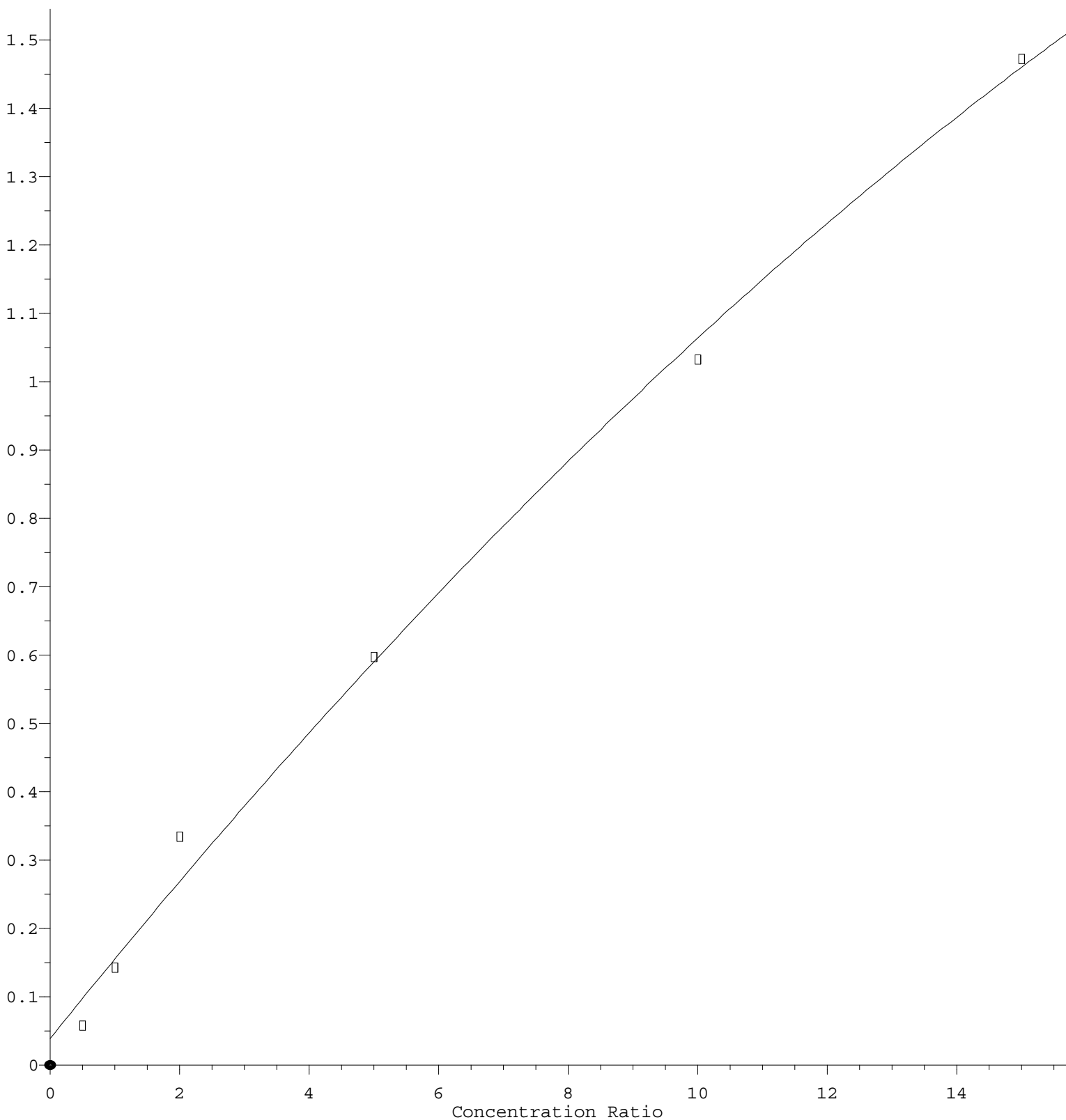
Response Ratio



$R = -2.099e-003 A^2 + 1.877e-001 A - 8.808e-002$
 Coef of Det (r^2) = 0.995901 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y082923S.M
 Calibration Table Last Updated: Thu Aug 31 16:31:54 2023

Tert butyl alcohol

Response Ratio



$R = -1.550e-003 A^2 + 1.180e-001 A + 3.904e-002$
 Coef of Det (r^2) = 0.995256 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y082923S.M
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