

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y010224S.M
 Title : SW846 8260
 Last Update : Tue Jan 02 14:25:32 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY016887.D 10 =VY016888.D 20 =VY016889.D 50 =VY016890.D 100 =VY016891.D 150 =VY016892.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.476	0.481	0.406	0.388	0.342	0.326	0.403	16.21
3) P	Chloromethane	0.690	0.659	0.576	0.598	0.523	0.479	0.587	13.57
4) C	Vinyl Chloride	0.778	0.761	0.672	0.718	0.637	0.590	0.693	10.56#
5) T	Bromomethane	0.574	0.559	0.469	0.483	0.447	0.445	0.496	11.41
6) T	Chloroethane	0.535	0.509	0.451	0.482	0.433	0.403	0.469	10.52
7) T	Trichlorofluor...	0.918	0.934	0.837	0.883	0.795	0.755	0.854	8.26
8) T	Diethyl Ether	0.287	0.297	0.249	0.290	0.254	0.260	0.273	7.62
9) T	1,1,2-Trichlor...	0.619	0.618	0.535	0.566	0.507	0.485	0.555	10.13
10) T	Methyl Iodide	0.430	0.448	0.438	0.529	0.504	0.484	0.472	8.41
11) T	Tert butyl alc...	0.069	0.062	0.040	0.037	0.033		0.048	33.67
12) CM	1,1-Dichloroet...	0.504	0.517	0.454	0.494	0.452	0.436	0.476	6.95#
13) T	Acrolein	0.069	0.073	0.061	0.053	0.048	0.055	0.060	16.40
14) T	Allyl chloride	0.778	0.798	0.708	0.800	0.735	0.699	0.753	5.98
15) T	Acrylonitrile	0.143	0.140	0.110	0.132	0.116	0.125	0.128	10.31
16) T	Acetone	0.204	0.196	0.143	0.125	0.106	0.118	0.149	27.98
17) T	Carbon Disulfide	1.193	1.170	1.032	1.253	1.127	1.052	1.138	7.44
18) T	Methyl Acetate	0.538	0.531	0.401	0.613	0.522	0.572	0.529	13.48
19) T	Methyl tert-bu...	1.277	1.293	1.089	1.329	1.197	1.249	1.239	6.94
20) T	Methylene Chlo...	1.256	1.191	0.729	0.661	0.551	0.513	0.817	39.79
21) T	trans-1,2-Dich...	0.582	0.586	0.507	0.577	0.526	0.496	0.545	7.47
22) T	Diisopropyl ether	1.742	1.811	1.673	1.898	1.696	1.623	1.741	5.75
23) T	Vinyl Acetate	0.829	0.861	0.743	0.839	0.750	0.766	0.798	6.39
24) P	1,1-Dichloroet...	1.133	1.138	1.001	1.098	0.982	0.923	1.046	8.56
25) T	2-Butanone	0.231	0.229	0.172	0.176	0.151	0.170	0.188	17.74
26) T	2,2-Dichloropr...	0.974	0.972	0.854	0.942	0.875	0.824	0.907	7.08
27) T	cis-1,2-Dichlo...	0.653	0.671	0.612	0.675	0.628	0.597	0.639	5.00
28) T	Bromochloromet...	0.375	0.396	0.377	0.450	0.391	0.368	0.393	7.63
29) T	Tetrahydrofuran	0.108	0.108	0.084	0.106	0.092	0.102	0.100	9.88
30) C	Chloroform	1.167	1.170	1.045	1.123	1.010	0.953	1.078	8.26#
31) T	Cyclohexane	0.977	0.907	0.801	0.874	0.790	0.740	0.848	10.29
32) T	1,1,1-Trichlor...	0.959	0.979	0.883	0.957	0.872	0.834	0.914	6.42
33) S	1,2-Dichloroet...	0.598	0.531	0.481	0.500	0.404	0.451	0.494	13.57
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.357	0.331	0.327	0.329	0.271	0.298	0.319	9.37
36) T	1,1-Dichloropr...	0.480	0.468	0.438	0.501	0.459	0.439	0.464	5.23
37) T	Ethyl Acetate	0.212	0.235	0.191	0.225	0.191	0.214	0.211	8.41
38) T	Carbon Tetrach...	0.473	0.501	0.444	0.503	0.461	0.449	0.472	5.33
39) T	Methylcyclohexane	0.479	0.510	0.480	0.586	0.546	0.531	0.522	7.91
40) TM	Benzene	1.410	1.457	1.330	1.494	1.359	1.307	1.393	5.28
41) T	Methacrylonitrile	0.115	0.108	0.106	0.108	0.107	0.122	0.111	5.81
42) TM	1,2-Dichloroet...	0.392	0.394	0.344	0.390	0.349	0.350	0.370	6.58
43) T	Isopropyl Acetate	0.421	0.423	0.355	0.428	0.379	0.418	0.404	7.35
44) TM	Trichloroethene	0.349	0.368	0.339	0.381	0.349	0.340	0.354	4.66
45) C	1,2-Dichloropr...	0.373	0.375	0.344	0.383	0.344	0.335	0.359	5.70#
46) T	Dibromomethane	0.185	0.199	0.168	0.195	0.173	0.178	0.183	6.67
47) T	Bromodichlorom...	0.507	0.526	0.463	0.520	0.469	0.463	0.491	6.07
48) T	Methyl methacr...	0.206	0.215	0.189	0.242	0.221	0.235	0.218	8.93
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	9.28
50) S	Toluene-d8	1.137	1.117	1.085	1.181	0.988	1.075	1.097	6.01
51) T	4-Methyl-2-Pen...	0.211	0.225	0.182	0.237	0.203	0.231	0.215	9.46
52) CM	Toluene	0.810	0.861	0.802	0.915	0.839	0.816	0.841	5.02#
53) T	t-1,3-Dichloro...	0.427	0.453	0.395	0.480	0.437	0.448	0.440	6.48
54) T	cis-1,3-Dichlo...	0.499	0.546	0.504	0.574	0.526	0.523	0.529	5.28
55) T	1,1,2-Trichlor...	0.280	0.290	0.249	0.283	0.247	0.256	0.267	7.11
56) T	Ethyl methacry...	0.206	0.220	0.190	0.252	0.234	0.256	0.226	11.43

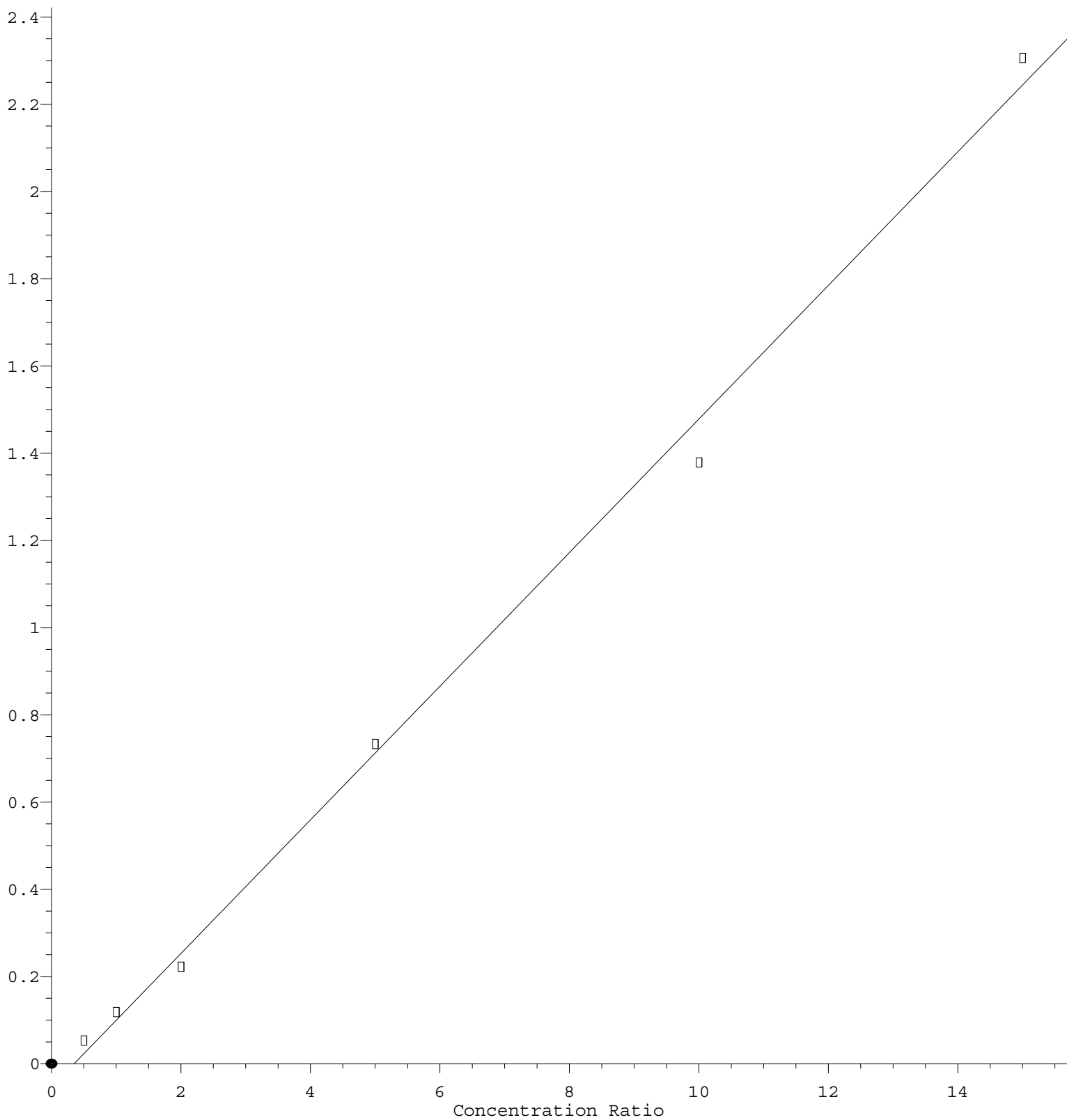
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57)	T	1,3-Dichloropr...	0.470	0.470	0.408	0.474	0.424	0.433	0.446	6.39
58)	T	2-Chloroethyl ...	0.106	0.118	0.111	0.147	0.138	0.154	0.129	15.33
59)	T	2-Hexanone	0.164	0.176	0.140	0.164	0.142	0.164	0.158	8.94
60)	T	Dibromochlorom...	0.320	0.319	0.278	0.331	0.296	0.305	0.308	6.21
61)	T	1,2-Dibromoethane	0.239	0.243	0.208	0.252	0.220	0.232	0.232	6.91
62)	S	4-Bromofluorob...	0.409	0.395	0.361	0.383	0.316	0.357	0.370	8.99
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.319	0.343	0.308	0.346	0.318	0.311	0.324	5.02
65)	PM	Chlorobenzene	1.019	1.091	1.005	1.108	1.024	1.003	1.042	4.41
66)	T	1,1,1,2-Tetrac...	0.389	0.403	0.379	0.427	0.391	0.387	0.396	4.34
67)	C	Ethyl Benzene	1.717	1.888	1.769	2.077	1.933	1.867	1.875	6.78#
68)	T	m/p-Xylenes	0.603	0.689	0.659	0.769	0.717	0.694	0.688	8.10
69)	T	o-Xylene	0.575	0.629	0.618	0.724	0.673	0.654	0.645	7.90
70)	T	Styrene	0.786	0.911	0.900	1.075	0.991	0.974	0.939	10.45
71)	P	Bromoform	0.192	0.201	0.170	0.213	0.190	0.203	0.195	7.58
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.681	3.995	4.026	4.492	4.311	3.993	4.083	6.92
74)	T	N-amyl acetate	0.767	0.823	0.733	0.896	0.812	0.891	0.820	7.97
75)	P	1,1,2,2-Tetrac...	0.927	0.900	0.765	0.856	0.762	0.781	0.832	8.71
76)	T	1,2,3-Trichlor...	0.599	0.589	0.501	0.637	0.461	0.468	0.543	13.83
77)	T	Bromobenzene	0.896	0.905	0.870	0.946	0.907	0.869	0.899	3.19
78)	T	n-propylbenzene	4.534	4.979	4.977	5.460	5.124	4.709	4.964	6.51
79)	T	2-Chlorotoluene	2.656	2.798	2.717	2.961	2.775	2.608	2.753	4.53
80)	T	1,3,5-Trimethy...	2.852	3.197	3.227	3.569	3.384	3.147	3.229	7.45
81)	T	trans-1,4-Dich...	0.242	0.242	0.218	0.248	0.236	0.248	0.239	4.75
82)	T	4-Chlorotoluene	2.715	2.916	2.774	3.017	2.819	2.631	2.812	4.94
83)	T	tert-Butylbenzene	2.610	2.809	2.833	3.082	2.971	2.760	2.844	5.80
84)	T	1,2,4-Trimethy...	2.804	3.157	3.127	3.509	3.338	3.146	3.180	7.44
85)	T	sec-Butylbenzene	3.852	4.246	4.171	4.627	4.365	4.025	4.214	6.40
86)	T	p-Isopropyltol...	2.988	3.460	3.379	3.882	3.693	3.468	3.478	8.72
87)	T	1,3-Dichlorobe...	1.789	1.765	1.684	1.872	1.763	1.705	1.763	3.77
88)	T	1,4-Dichlorobe...	1.751	1.796	1.672	1.811	1.685	1.632	1.724	4.19
89)	T	n-Butylbenzene	2.946	3.336	3.277	3.716	3.507	3.284	3.344	7.70
90)	T	Hexachloroethane	0.774	0.763	0.729	0.791	0.736	0.692	0.747	4.74
91)	T	1,2-Dichlorobe...	1.566	1.557	1.473	1.611	1.478	1.457	1.524	4.10
92)	T	1,2-Dibromo-3-...	0.116	0.112	0.092	0.104	0.095	0.107	0.104	9.11
93)	T	1,2,4-Trichlor...	0.629	0.713	0.681	0.845	0.815	0.857	0.757	12.56
94)	T	Hexachlorobuta...	0.472	0.484	0.465	0.507	0.460	0.456	0.474	4.01
95)	T	Naphthalene	1.027	1.196	1.106	1.540	1.481	1.718	1.345	20.38
96)	T	1,2,3-Trichlor...	0.570	0.620	0.568	0.712	0.664	0.720	0.642	10.50

(#) = Out of Range

2-Chloroethyl Vinyl ether

Response Ratio



$$\text{Response} = 1.532\text{e-}001 * \text{Amt} - 5.342\text{e-}002$$

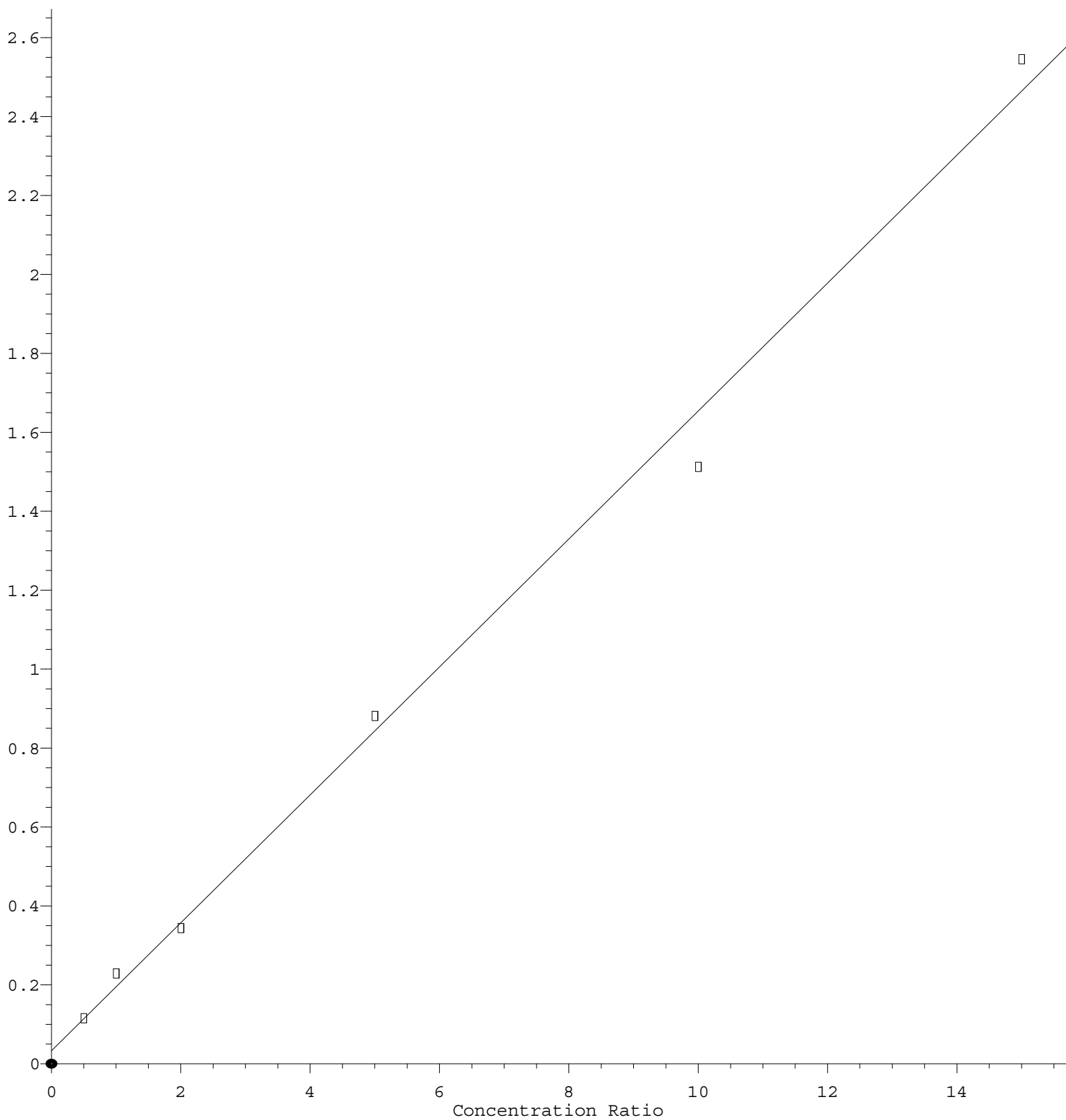
Coef of Det (r^2) = 0.995870 Curve Fit: Linear

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2-Butanone

Response Ratio



$$\text{Response} = 1.621\text{e-}001 * \text{Amt} + 3.271\text{e-}002$$

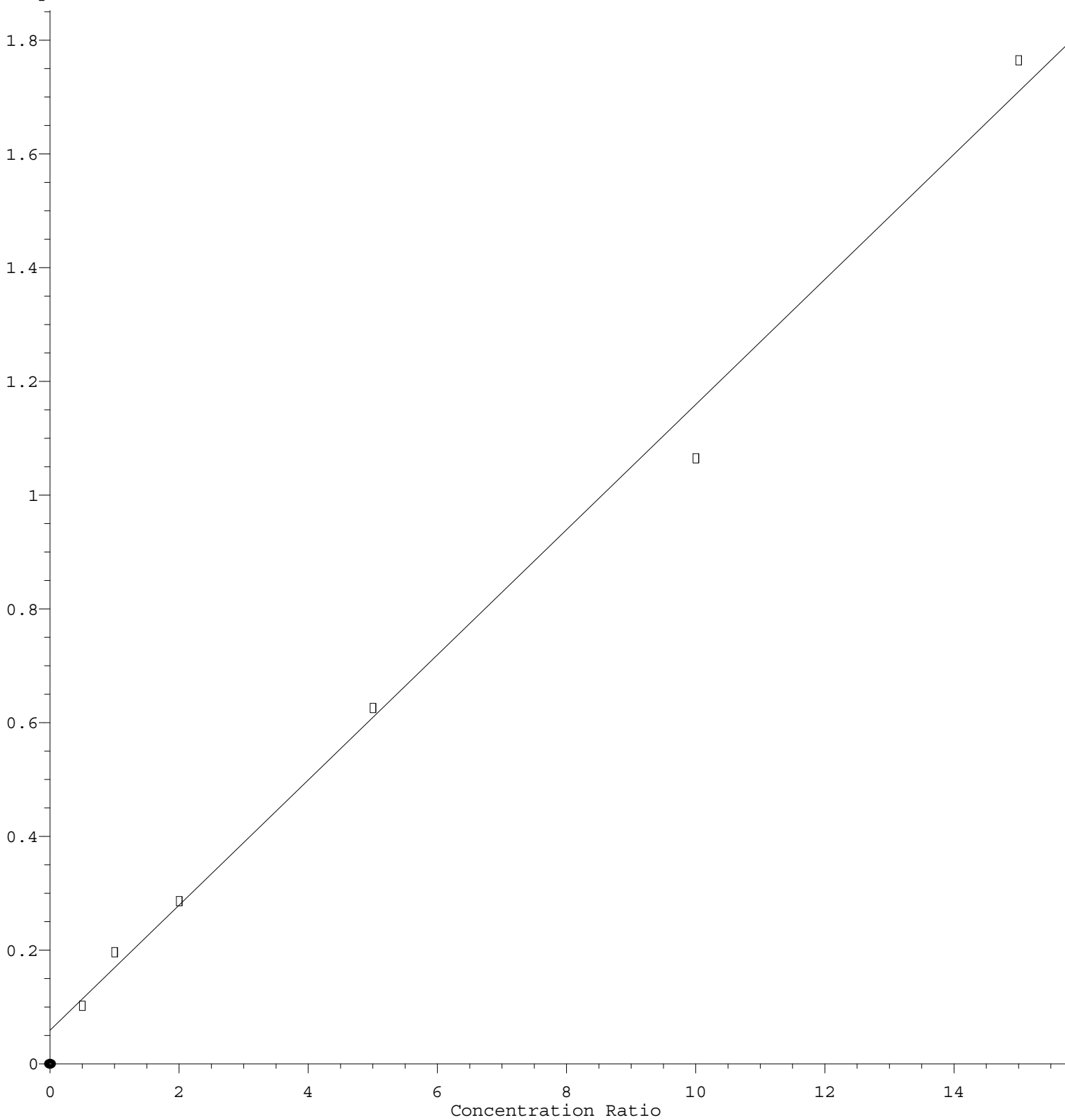
Coef of Det (r^2) = 0.993426 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y010224S.M

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Acetone

Response Ratio



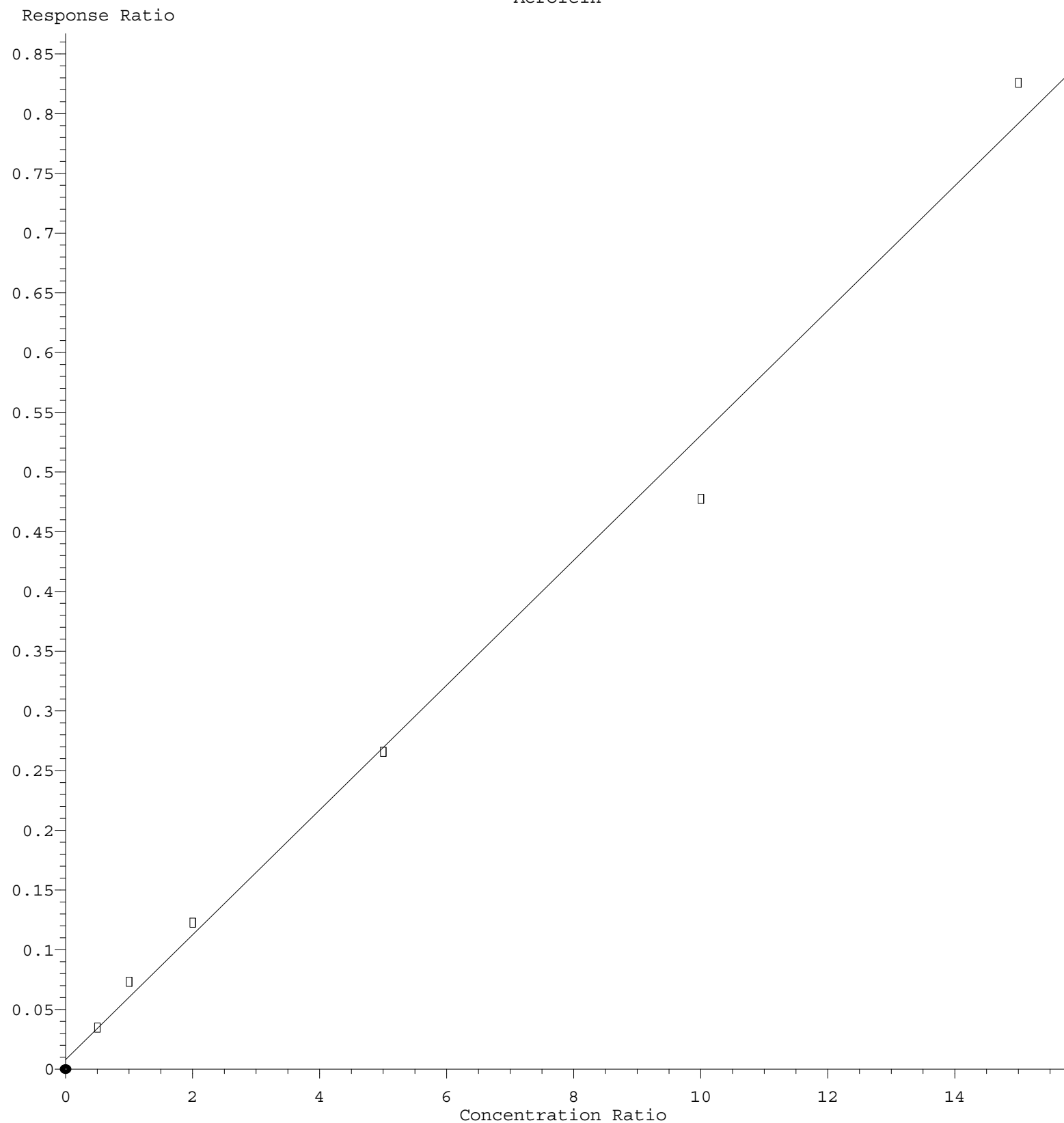
$$\text{Response} = 1.100\text{e-}001 * \text{Amt} + 5.880\text{e-}002$$

Coef of Det (r^2) = 0.993578 Curve Fit: Linear

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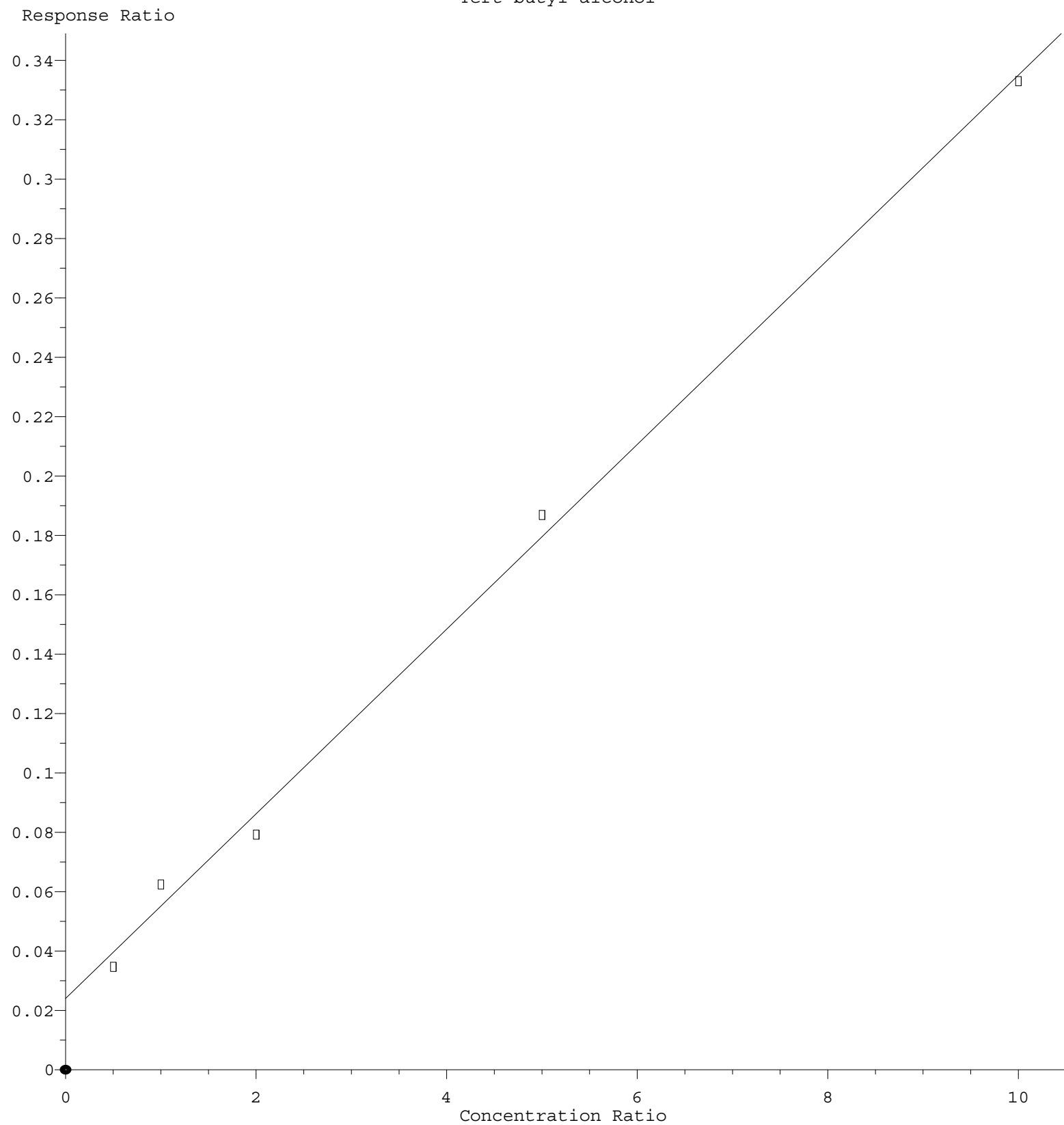
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Acrolein



Response = $5.220 \times 10^{-2} \times \text{Amt} + 8.478 \times 10^{-3}$
 Coef of Det (r^2) = 0.990794 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y010224S.M
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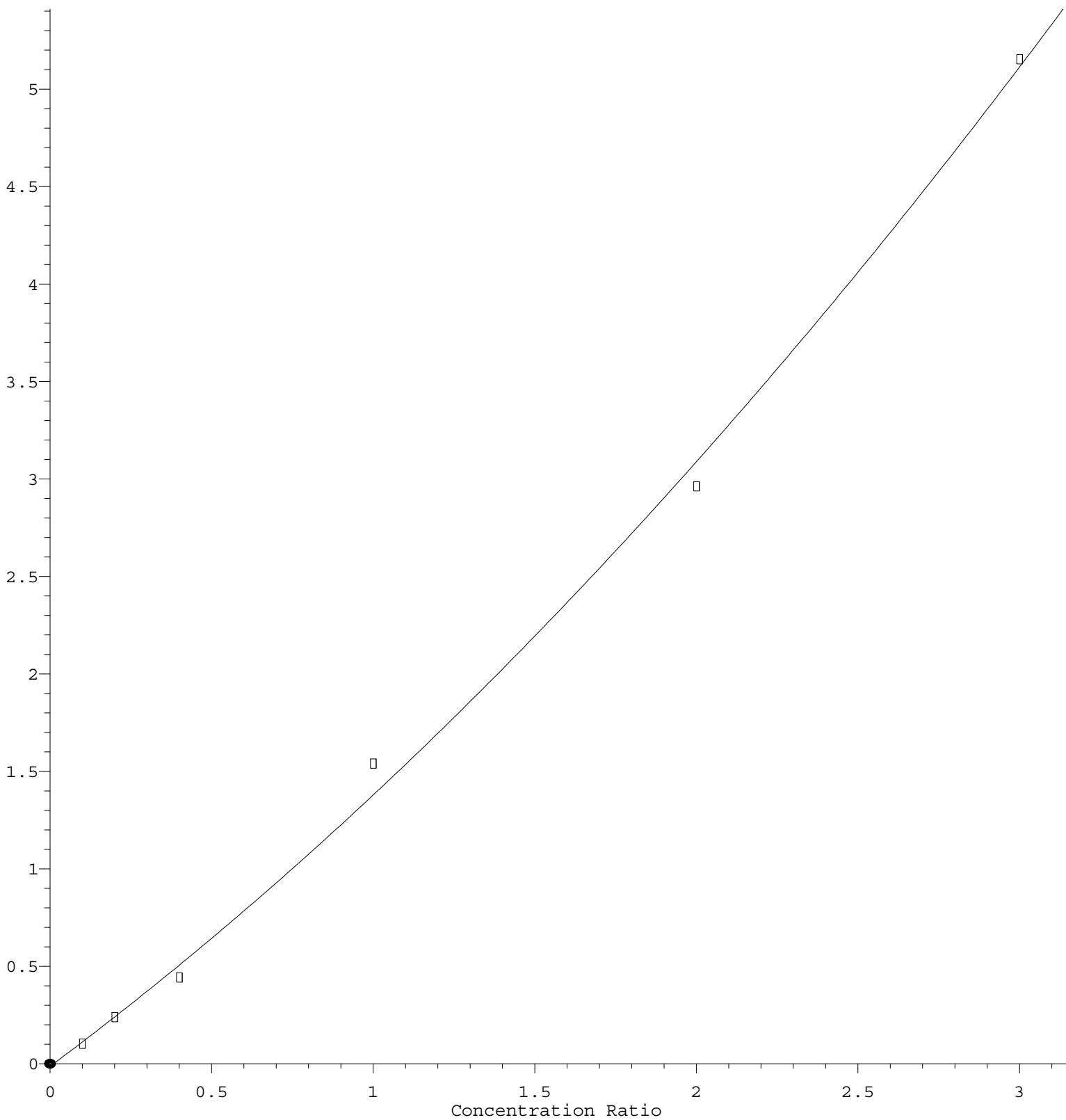
Tert butyl alcohol



Response = $3.118 \times 10^{-2} \times \text{Amt} + 2.387 \times 10^{-2}$
Coef of Det (r^2) = 0.996952 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y010224S.M
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Naphthalene

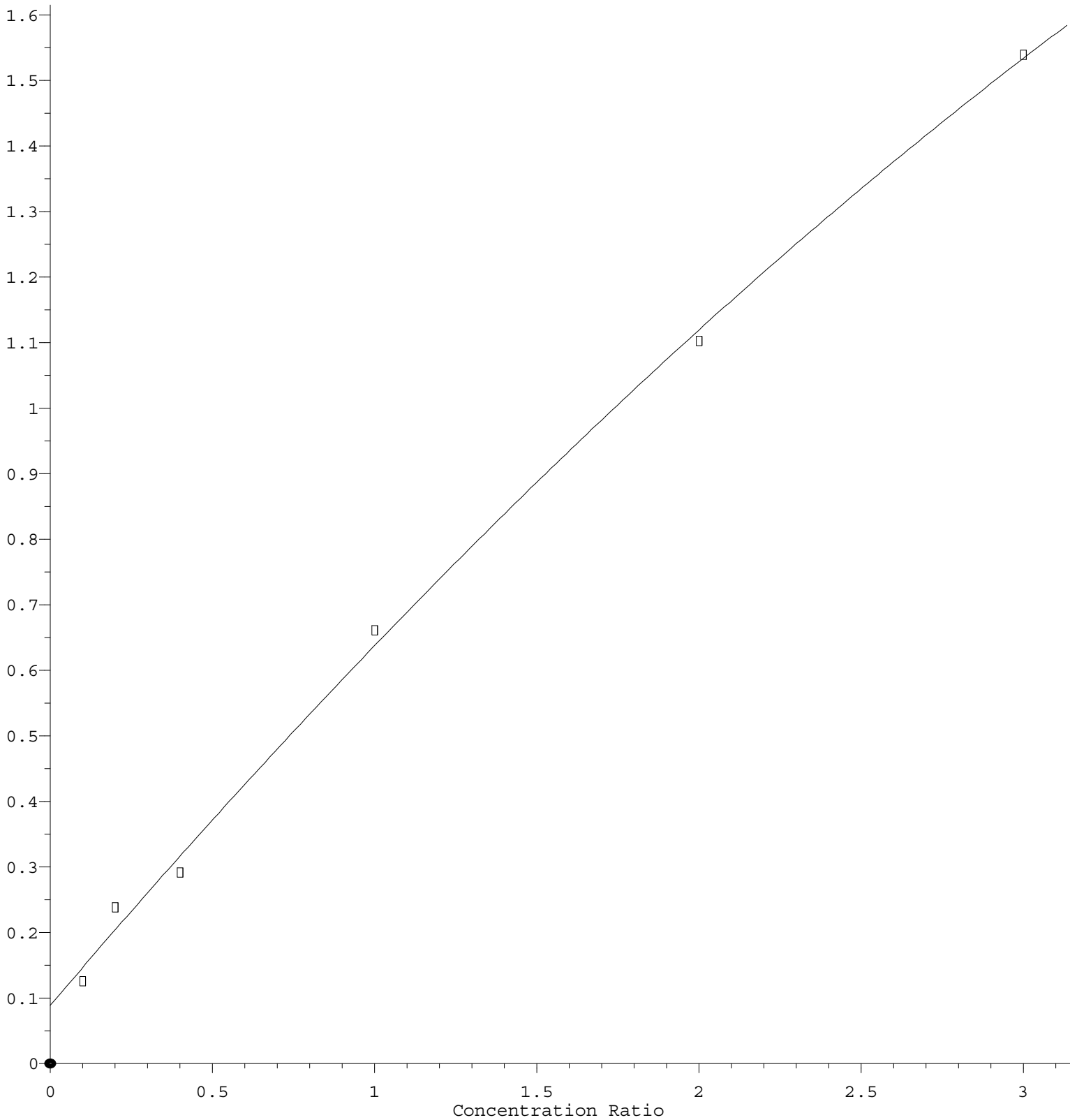
Response Ratio



$R = 1.584e-001 A^2 + 1.234e+000 A - 1.287e-002$
 Coef of Det (r^2) = 0.997615 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y010224S.M
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Methylene Chloride

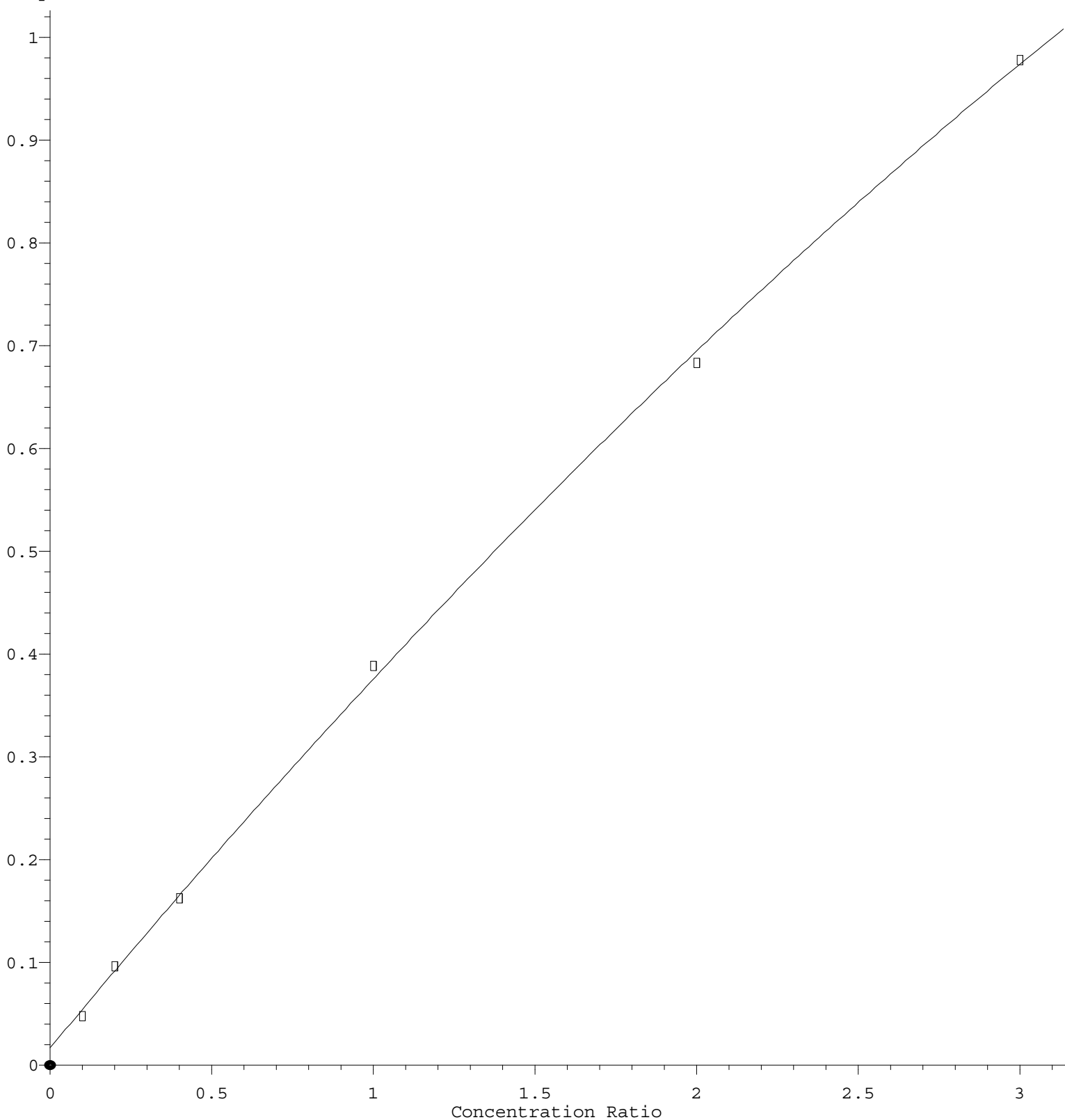
Response Ratio



$R = -3.365e-002 A^2 + 5.826e-001 A + 8.873e-002$
 Coef of Det (r^2) = 0.998022 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y010224S.M
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Dichlorodifluoromethane

Response Ratio



$R = -1.996e-002 A^2 + 3.790e-001 A + 1.665e-002$
 Coef of Det (r^2) = 0.999438 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y010224S.M
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