

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N100322W.M
 Title : SW846 8260
 Last Update : Tue Oct 04 05:54:56 2022
 Response Via : Initial Calibration

Calibration Files

1 =VN074706.D 5 =VN074707.D 20 =VN074709.D 50 =VN074710.D 100 =VN074711.D 10 =VN074708.D

	Compound	1	5	20	50	100	10	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.980	1.034	1.056	0.965	1.046	1.109	1.032	5.10
3) P	Chloromethane	2.248	1.986	1.755	1.447	1.465	1.856	1.793	17.23
4) C	Vinyl Chloride	3.335	3.065	2.966	2.669	2.812	3.106	2.992	7.81#
5) T	Bromomethane		2.793	2.120	2.195	2.127	2.416	2.330	12.25
6) T	Chloroethane		2.721	2.418	2.349	2.168	2.331	2.397	8.46
7) T	Trichlorofluor...	1.761	1.747	1.531	1.415	1.531	1.683	1.611	8.66
8) T	Diethyl Ether	0.849	0.675	0.683	0.617	0.672	0.761	0.710	11.64
9) T	1,1,2-Trichlor...	1.045	0.849	0.898	0.815	0.872	0.944	0.904	9.04
10) T	Methyl Iodide		1.064	1.139	1.047	1.152	1.101	1.101	4.15
11) T	Tert butyl alc...		0.290	0.259	0.252	0.295	0.275	0.274	6.92
12) CM	1,1-Dichloroet...	1.025	0.916	0.858	0.835	0.867	0.897	0.900	7.54#
13) T	Acrolein		0.200	0.101	0.095	0.106	0.129	0.126	34.23
14) T	Allyl chloride	1.950	1.857	1.751	1.705	1.954	1.868	1.847	5.52
15) T	Acrylonitrile	0.804	0.812	0.762	0.724	0.821	0.761	0.781	4.82
16) T	Acetone	0.783	0.696	0.641	0.586	0.641	0.670	0.670	9.96
17) T	Carbon Disulfide	2.756	2.829	2.547	2.387	2.615	2.684	2.637	5.98
18) T	Methyl Acetate	2.707	2.170	2.190	2.033	2.310	2.296	2.284	10.06
19) T	Methyl tert-bu...	3.636	3.693	3.419	3.332	3.884	3.510	3.579	5.59
20) T	Methylene Chlo...	1.769	1.329	1.099	1.032	1.128	1.140	1.249	21.85
21) T	trans-1,2-Dich...	1.097	0.977	0.913	0.884	1.040	0.938	0.975	8.30
22) T	Diisopropyl ether	3.976	4.248	3.900	3.814	4.515	3.974	4.071	6.42
23) T	Vinyl Acetate	2.436	2.995	3.097	3.180	3.901	2.933	3.090	15.36
24) P	1,1-Dichloroet...	1.918	2.094	1.991	1.886	2.169	2.053	2.018	5.32
25) T	2-Butanone	1.320	1.261	1.137	1.053	1.206	1.161	1.190	7.93
26) T	2,2-Dichloropr...	1.903	1.510	1.388	1.360	1.635	1.379	1.529	13.79
27) T	cis-1,2-Dichlo...	1.420	1.218	1.134	1.083	1.241	1.211	1.218	9.50
28) T	Bromochloromet...	0.798	0.831	1.014	0.958	1.105	1.098	0.967	13.51
29) T	Tetrahydrofuran	0.812	0.780	0.768	0.745	0.860	0.739	0.784	5.83
30) C	Chloroform	1.894	2.027	1.936	1.874	2.166	1.944	1.974	5.47#
31) T	Cyclohexane		2.161	1.871	1.757	1.984	1.934	1.941	7.68
32) T	1,1,1-Trichlor...	1.830	1.751	1.602	1.587	1.840	1.577	1.698	7.30
33) S	1,2-Dichloroet...		1.222	1.148	1.188	1.351	1.372	1.256	7.95
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.566	0.484	0.516	0.553	0.569	0.538	6.84
36) T	1,1-Dichloropr...	1.047	0.812	0.821	0.859	0.899	0.815	0.875	10.35
37) T	Ethyl Acetate	1.079	1.307	1.169	1.321	1.396	1.104	1.229	10.54
38) T	Carbon Tetrach...	0.904	0.727	0.710	0.739	0.820	0.745	0.774	9.59
39) T	Methylcyclohexane	1.195	0.907	1.030	1.078	1.128	1.024	1.060	9.32
40) TM	Benzene	2.675	2.557	2.659	2.710	2.825	2.589	2.669	3.56
41) T	Methacrylonitrile	0.620	0.544	0.603	0.614	0.576	0.626	0.597	5.27
42) TM	1,2-Dichloroet...	0.959	0.883	0.849	0.935	0.972	0.882	0.914	5.35
43) T	Isopropyl Acetate	1.683	1.740	1.825	1.987	2.153	1.821	1.868	9.28
44) TM	Trichloroethene	0.677	0.618	0.538	0.563	0.589	0.551	0.589	8.77
45) C	1,2-Dichloropr...	0.774	0.709	0.666	0.699	0.718	0.681	0.708	5.29#
46) T	Dibromomethane	0.611	0.447	0.442	0.456	0.494	0.483	0.489	12.90
47) T	Bromodichlorom...	0.909	0.864	0.839	0.899	0.981	0.895	0.898	5.39
48) T	Methyl methacr...	0.840	0.781	0.836	0.897	0.972	0.809	0.856	8.03
49) T	1,4-Dioxane	0.015	0.014	0.015	0.016	0.018	0.016	0.016	6.66
50) S	Toluene-d8		2.110	1.981	2.240	2.462	2.254	2.209	8.12
51) T	4-Methyl-2-Pen...	1.277	1.257	1.308	1.378	1.550	1.304	1.346	8.03
52) CM	Toluene	1.671	1.426	1.523	1.705	1.889	1.527	1.624	10.23#
53) T	t-1,3-Dichloro...	0.756	0.810	0.848	0.977	1.129	0.790	0.885	16.03
54) T	cis-1,3-Dichlo...	0.943	0.846	0.982	1.054	1.158	0.957	0.990	10.73
55) T	1,1,2-Trichlor...	0.708	0.635	0.628	0.631	0.693	0.625	0.653	5.69
56) T	Ethyl methacry...	0.890	0.932	0.985	1.120	1.282	0.960	1.028	14.27

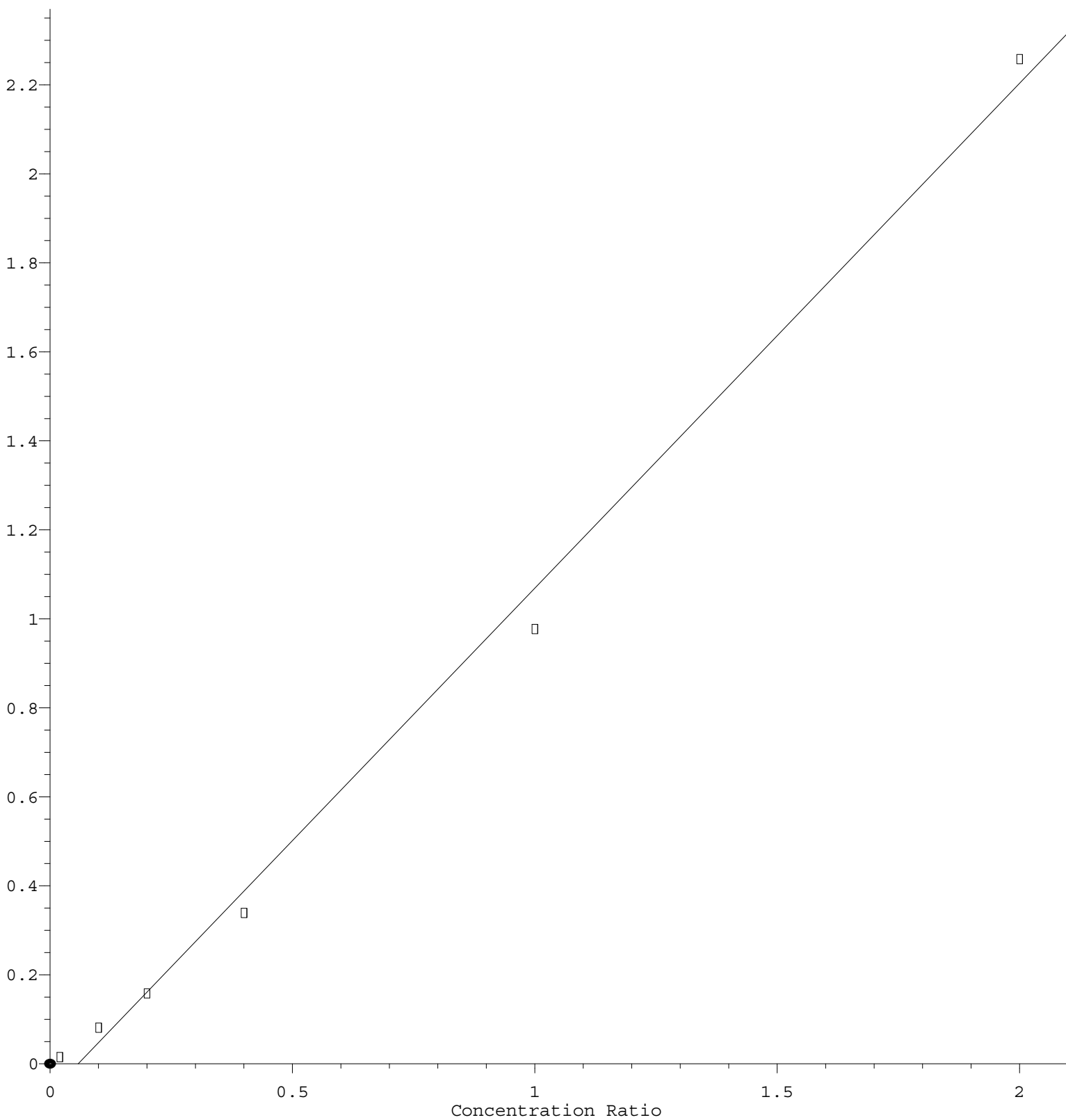
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57)	T	1,3-Dichloropr...	1.244	1.135	1.134	1.159	1.240	1.130	1.174	4.58
58)	T	2-Chloroethyl ...	0.302	0.363	0.404	0.447	0.463	0.401	0.397	14.71
59)	T	2-Hexanone	0.976	0.909	0.962	1.062	1.188	0.954	1.008	10.01
60)	T	Dibromochlorom...	0.599	0.474	0.568	0.632	0.723	0.590	0.598	13.65
61)	T	1,2-Dibromoethane	0.628	0.628	0.617	0.667	0.705	0.630	0.646	5.22
62)	S	4-Bromofluorob...		0.550	0.563	0.688	0.806	0.619	0.645	16.29
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.400	0.429	0.413	0.389	0.426	0.390	0.408	4.22
65)	PM	Chlorobenzene	1.836	1.496	1.402	1.441	1.581	1.353	1.518	11.50
66)	T	1,1,1,2-Tetrac...	0.507	0.456	0.467	0.504	0.575	0.496	0.501	8.38
67)	C	Ethyl Benzene	2.802	2.795	2.676	2.795	3.215	2.692	2.829	6.96#
68)	T	m/p-Xylenes	0.978	0.969	1.012	1.078	1.245	1.044	1.054	9.67
69)	T	o-Xylene	0.957	1.074	0.995	1.074	1.228	1.022	1.058	8.93
70)	T	Styrene	1.576	1.415	1.626	1.821	2.153	1.545	1.689	15.55
71)	P	Bromoform	0.326	0.324	0.341	0.395	0.500	0.327	0.369	18.86
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.544	4.892	4.636	4.257	4.673	4.715	4.620	4.58
74)	T	N-amyl acetate	2.275	2.231	2.220	2.199	2.553	2.224	2.284	5.88
75)	P	1,1,2,2-Tetrac...	1.837	2.070	1.745	1.533	1.566	1.821	1.762	11.20
76)	T	1,2,3-Trichlor...	1.655	1.451	1.361	1.059	1.134	1.472	1.355	16.48
77)	T	Bromobenzene	1.113	1.090	0.912	0.889	0.944	0.976	0.988	9.46
78)	T	n-propylbenzene	5.130	5.338	5.364	5.082	5.554	5.267	5.289	3.24
79)	T	2-Chlorotoluene	3.377	3.253	3.024	2.862	3.093	3.090	3.117	5.76
80)	T	1,3,5-Trimethy...	3.688	3.649	3.687	3.601	3.837	3.663	3.688	2.17
81)	T	trans-1,4-Dich...		0.417	0.401	0.445	0.533	0.369	0.433	14.40
82)	T	4-Chlorotoluene	3.237	2.852	2.936	2.922	3.154	2.983	3.014	4.94
83)	T	tert-Butylbenzene	3.372	3.557	3.205	3.070	3.286	3.305	3.299	4.95
84)	T	1,2,4-Trimethy...	2.900	3.469	3.635	3.660	3.949	3.697	3.552	9.99
85)	T	sec-Butylbenzene	5.017	4.524	4.654	4.535	4.935	4.559	4.704	4.62
86)	T	p-Isopropyltol...	3.091	3.496	3.655	3.715	4.112	3.568	3.606	9.19
87)	T	1,3-Dichlorobe...	2.127	1.904	1.781	1.772	1.917	1.758	1.877	7.51
88)	T	1,4-Dichlorobe...	2.045	1.971	1.733	1.697	1.868	1.719	1.839	7.93
89)	T	n-Butylbenzene	3.439	3.156	3.204	3.183	3.679	2.878	3.257	8.39
90)	T	Hexachloroethane	0.768	0.494	0.580	0.582	0.643	0.602	0.612	14.86
91)	T	1,2-Dichlorobe...	1.888	1.770	1.774	1.788	1.933	1.800	1.826	3.75
92)	T	1,2-Dibromo-3-...	0.388	0.327	0.332	0.296	0.308	0.295	0.324	10.79
93)	T	1,2,4-Trichlor...	0.693	0.849	0.814	0.766	0.885	0.823	0.805	8.38
94)	T	Hexachlorobuta...	0.513	0.417	0.413	0.340	0.379	0.380	0.407	14.46
95)	T	Naphthalene	2.650	2.713	3.301	3.129	3.545	3.014	3.059	11.22
96)	T	1,2,3-Trichlor...	0.903	0.856	0.829	0.780	0.889	0.840	0.849	5.22

(#) = Out of Range

t-1,3-Dichloropropene

Response Ratio



$$\text{Response} = 1.135\text{e}+000 * \text{Amt} - 6.545\text{e}-002$$

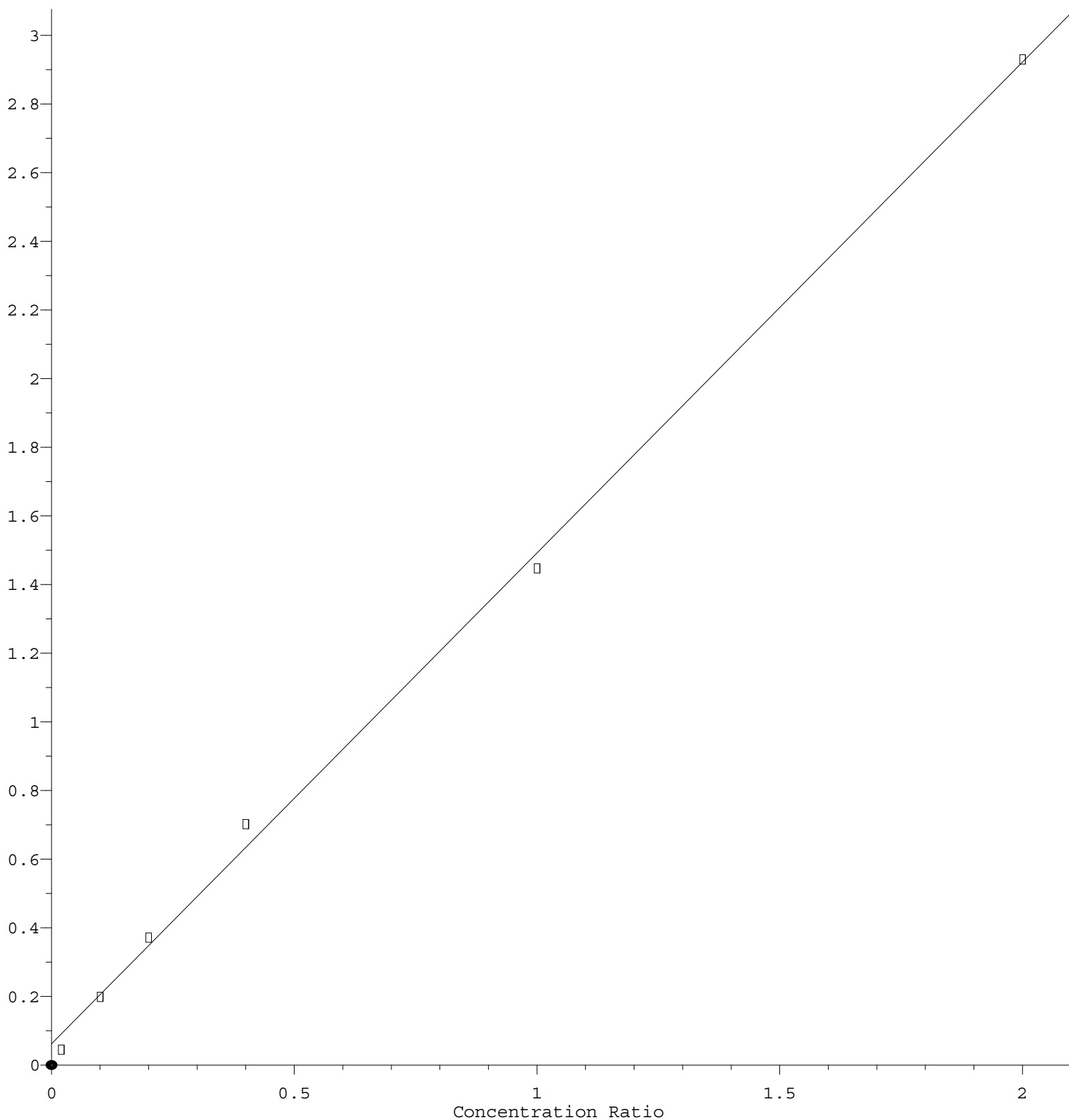
Coef of Det (r^2) = 0.995134 Curve Fit: Linear

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Chloromethane

Response Ratio



$$\text{Response} = 1.430\text{e}+000 * \text{Amt} + 6.241\text{e}-002$$

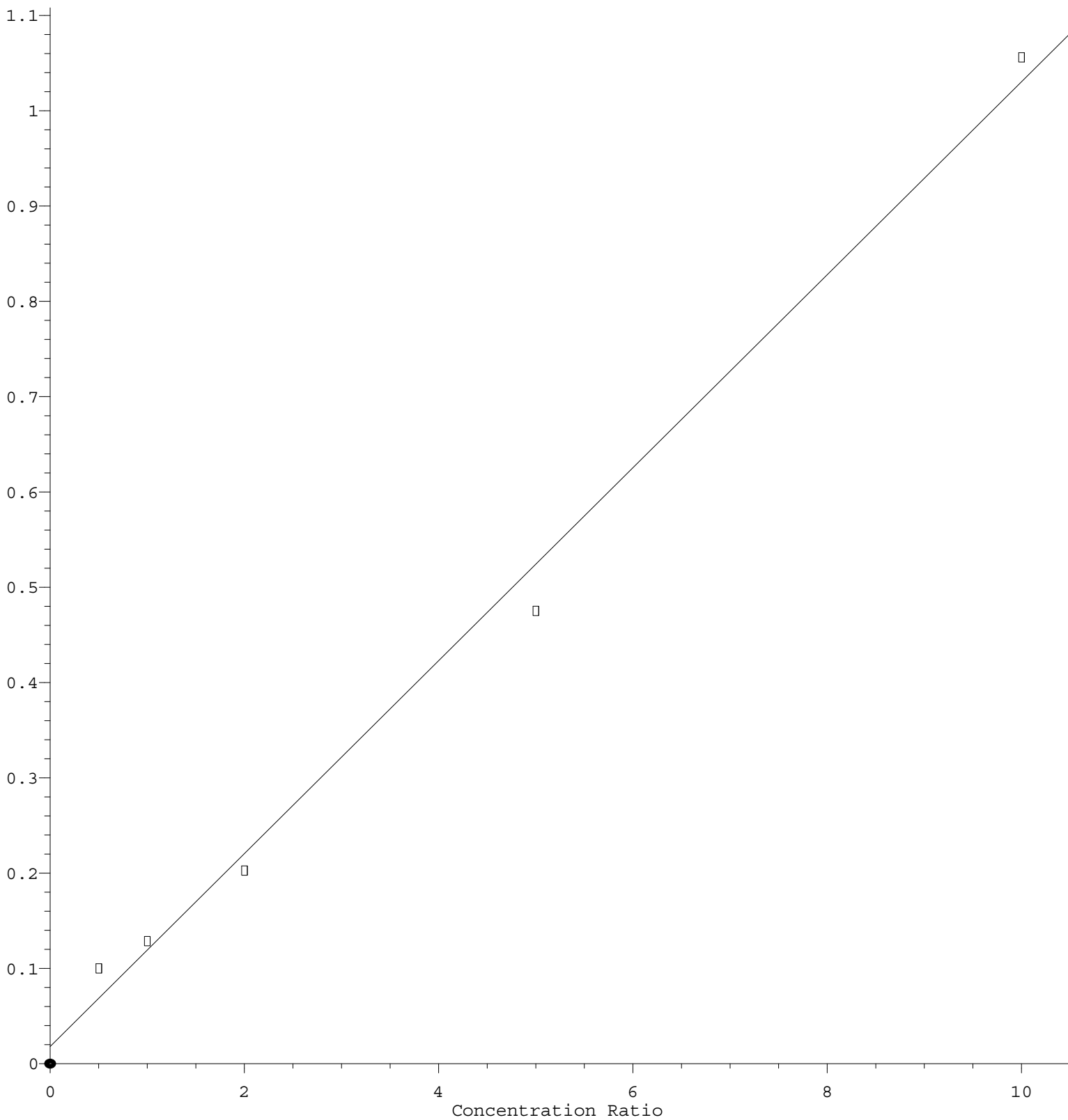
Coef of Det (r^2) = 0.998428 Curve Fit: Linear

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Acrolein

Response Ratio



$$\text{Response} = 1.013\text{e-}001 * \text{Amt} + 1.775\text{e-}002$$

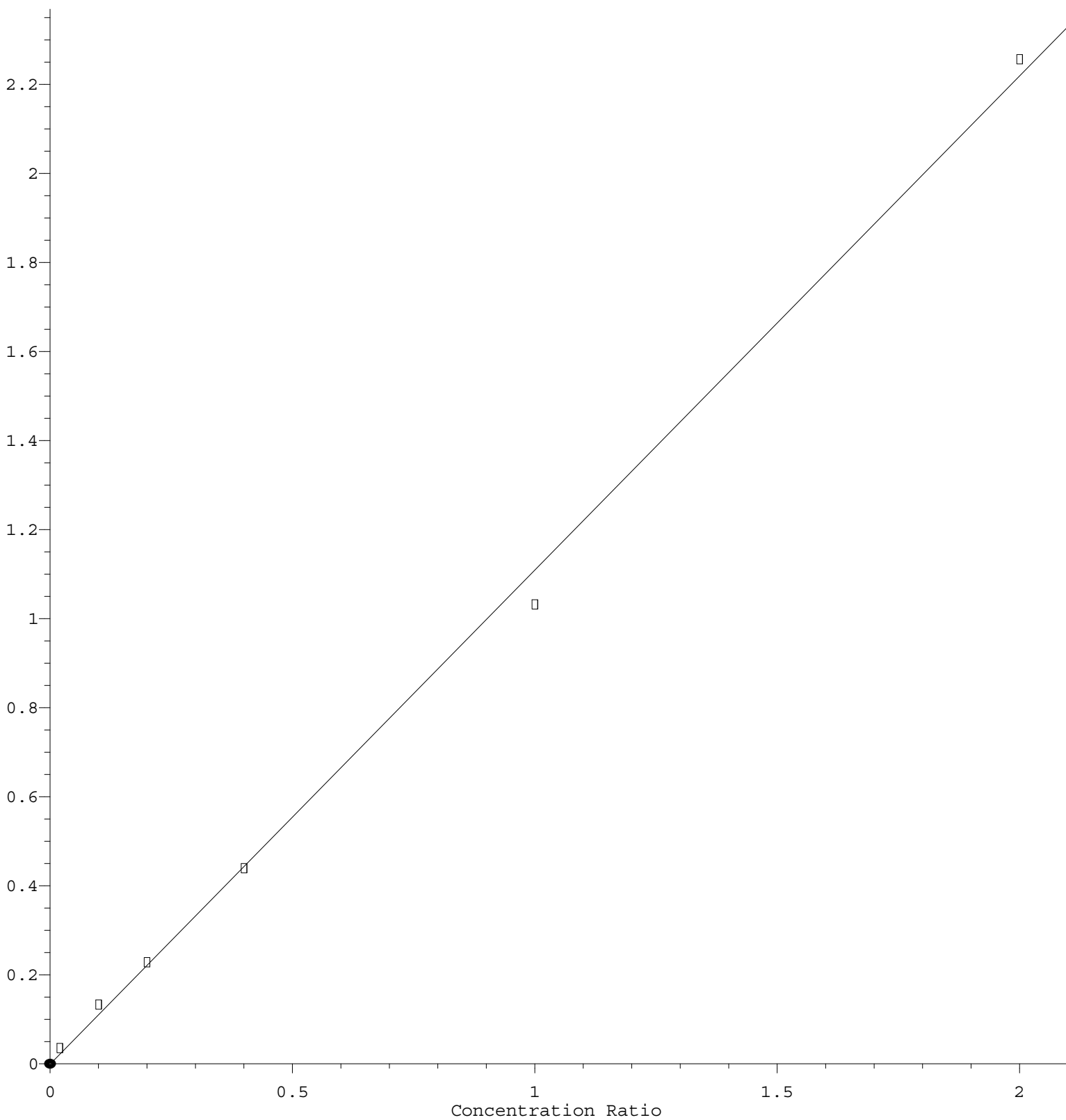
Coef of Det (r^2) = 0.993031 Curve Fit: Linear

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Methylene Chloride

Response Ratio



$$\text{Response} = 1.110\text{e}+000 * \text{Amt} - 8.010\text{e}-004$$

Coef of Det (r^2) = 0.997734 Curve Fit: Linear

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Vinyl Acetate

Response Ratio

40
35
30
25
20
15
10
5
0

0

2

4

6

8

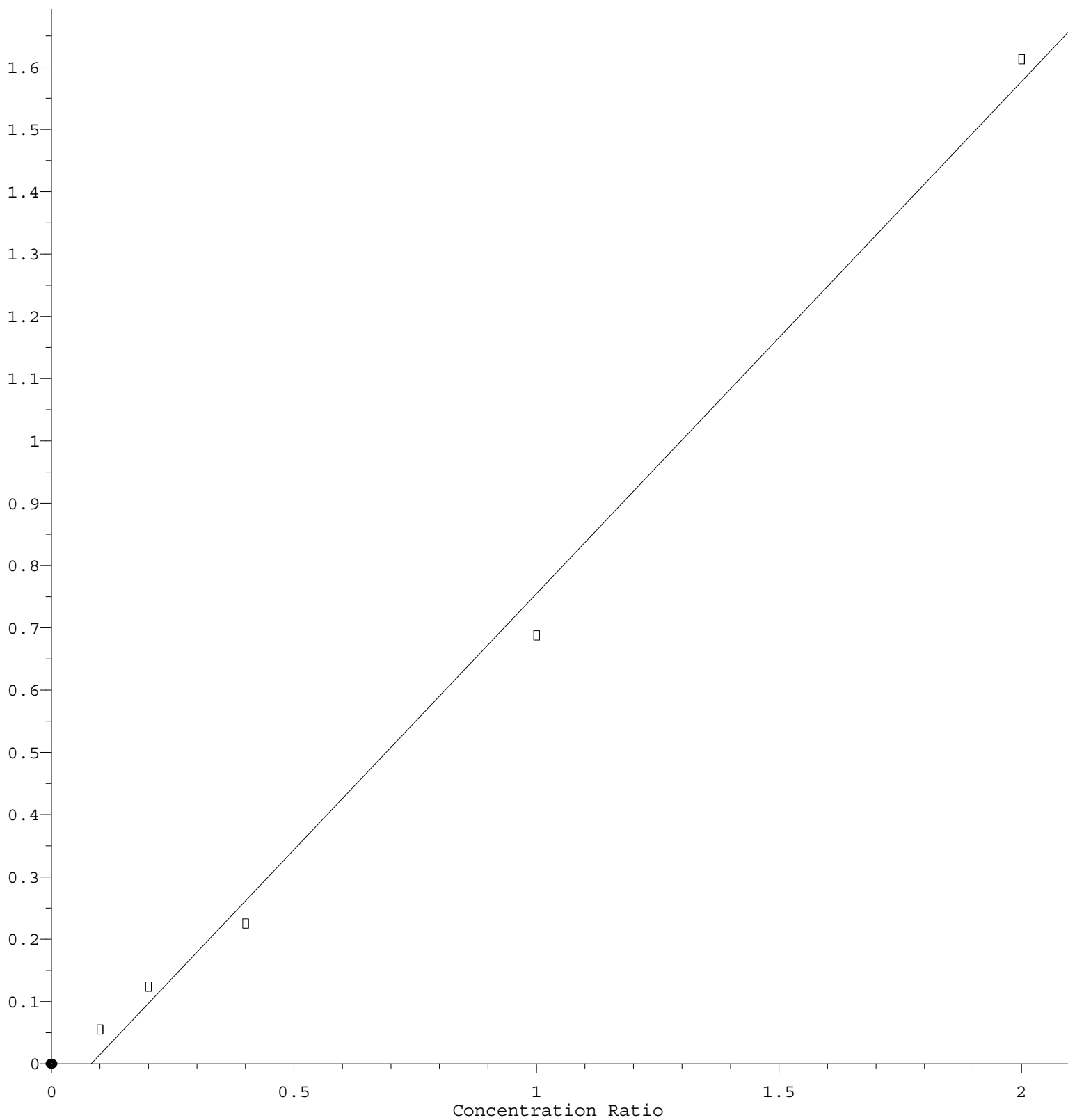
10

Concentration Ratio

Response = 3.881e+000 * Amt - 1.069e+000
 Coef of Det (r^2) = 0.991791 Curve Fit: Linear
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4-Bromofluorobenzene

Response Ratio



$$\text{Response} = 8.220\text{e-}001 * \text{Amt} - 6.743\text{e-}002$$

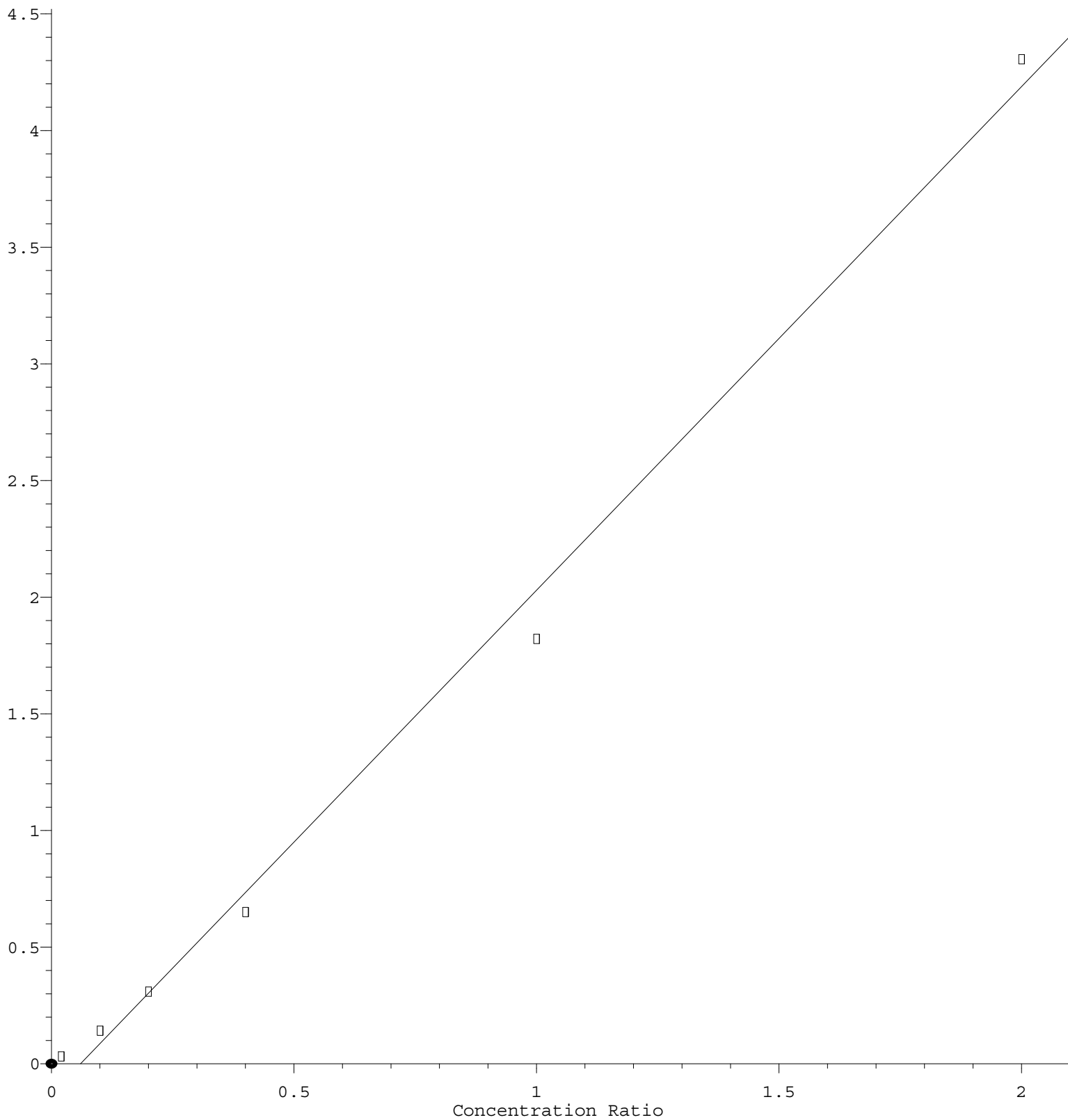
Coef of Det (r^2) = 0.994402 Curve Fit: Linear

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Styrene

Response Ratio



$$\text{Response} = 2.158\text{e}+000 * \text{Amt} - 1.284\text{e}-001$$

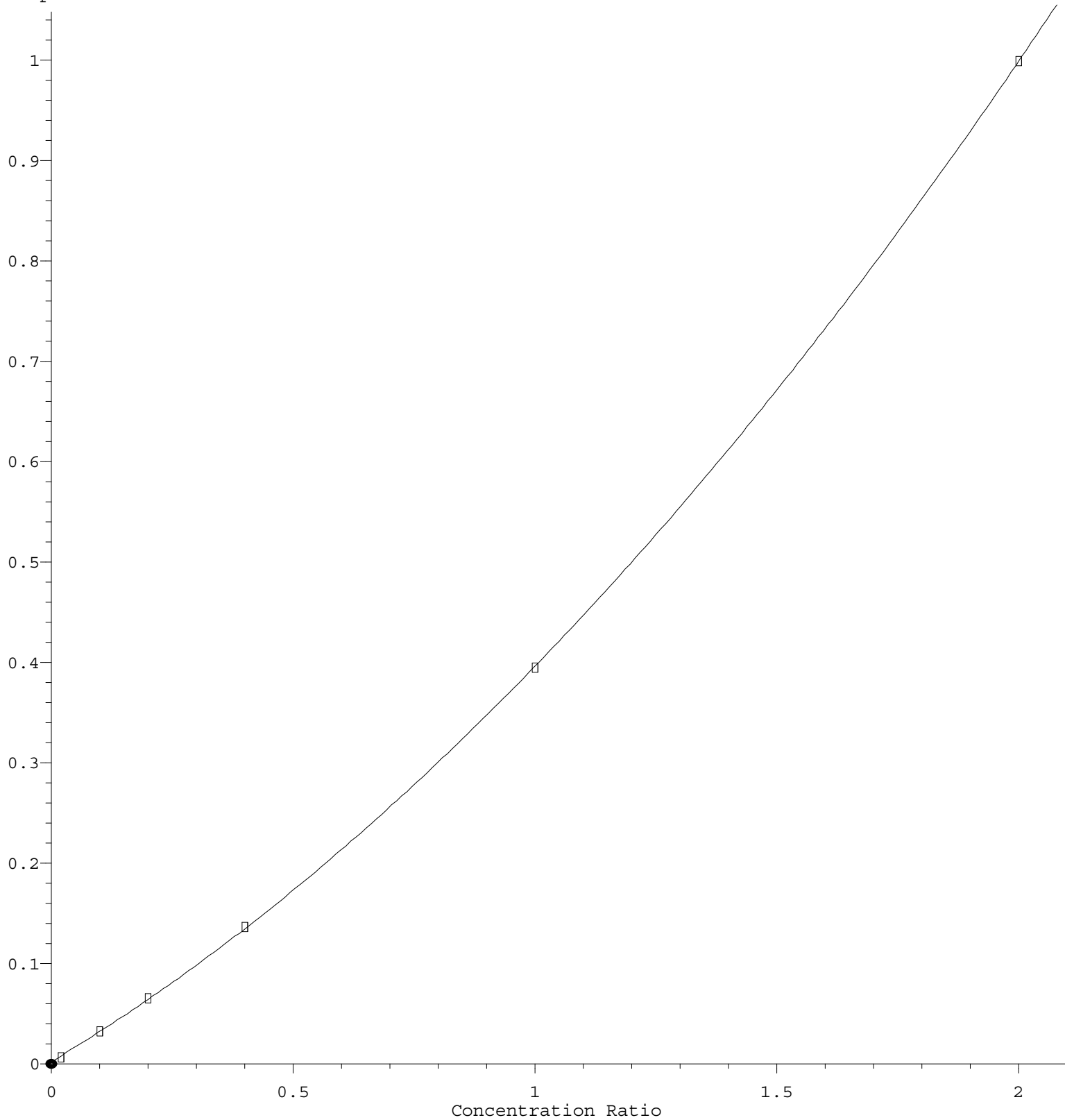
Coef of Det (r^2) = 0.994038 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N100322W.M

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Bromoform

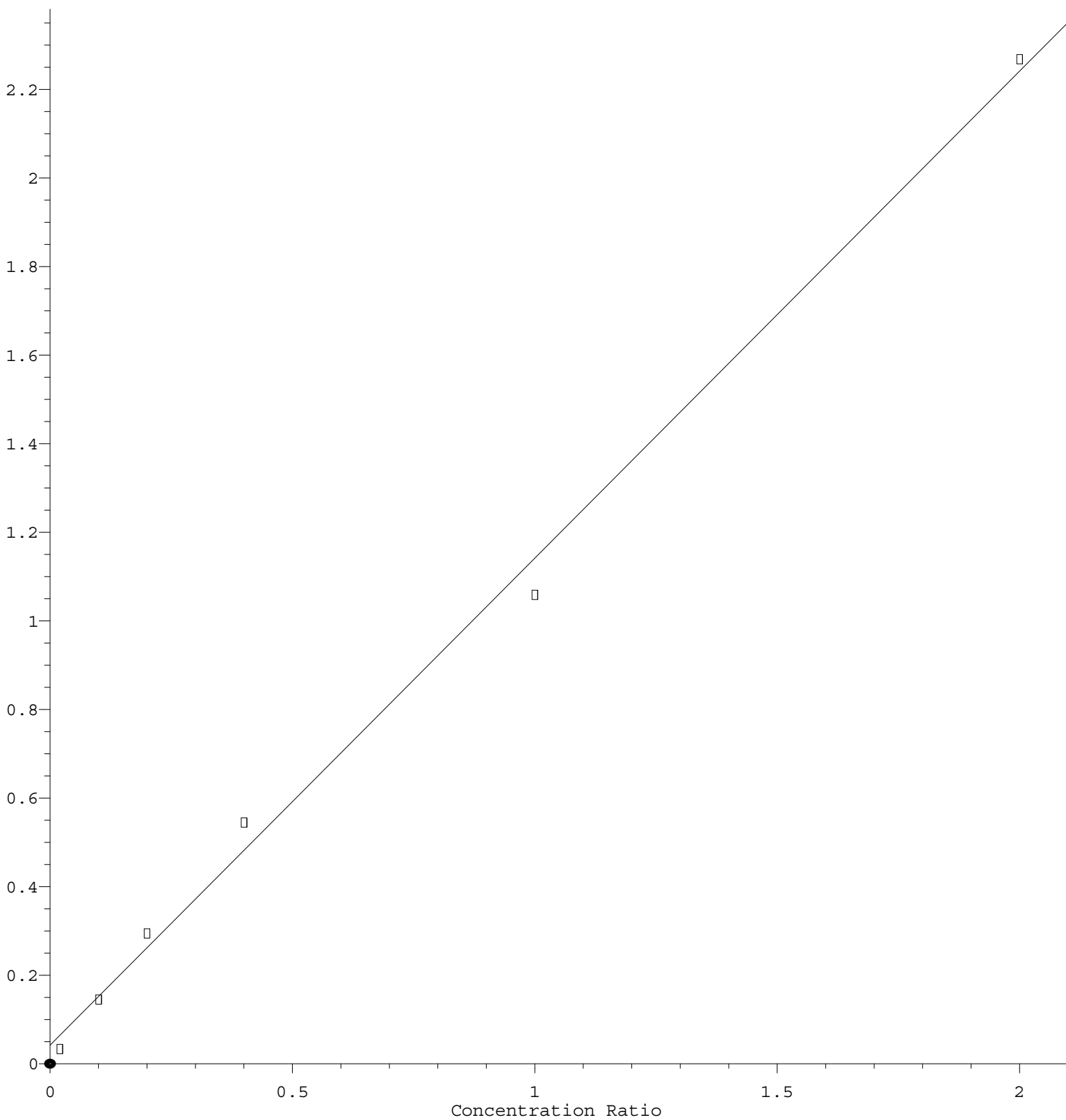
Response Ratio



$R = 1.045e-001 A^2 + 2.893e-001 A + 2.313e-003$
Coef of Det (r^2) = 0.999989 Curve Fit: Quadratic
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1,2,3-Trichloropropane

Response Ratio



$\text{Response} = 1.100\text{e}+000 * \text{Amt} + 4.219\text{e}-002$
 Coef of Det (r^2) = 0.996152 Curve Fit: Linear
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