

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N042622W.M
 Title : SW846 8260
 Last Update : Tue Apr 26 18:50:11 2022
 Response Via : Initial Calibration

Calibration Files

1 =VN072198.D 5 =VN072199.D 10 =VN072200.D 20 =VN072201.D 50 =VN072202.D 100 =VN072203.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.760	0.719	0.615	0.533	0.531	0.567	0.621	15.71
3) P	Chloromethane	1.143	0.843	0.741	0.612	0.600	0.631	0.762	27.41
4) C	Vinyl Chloride	0.640	0.625	0.578	0.500	0.497	0.538	0.563	10.91#
5) T	Bromomethane		0.382	0.344	0.282	0.263	0.265	0.307	17.27
6) T	Chloroethane	0.474	0.438	0.359	0.309	0.344	0.307	0.372	18.55
7) T	Trichlorofluor...	1.136	1.025	1.054	0.872	0.871	0.942	0.983	10.81
8) T	Diethyl Ether	0.337	0.368	0.373	0.333	0.347	0.379	0.356	5.57
9) T	1,1,2-Trichlor...	0.538	0.543	0.556	0.480	0.471	0.512	0.517	6.77
10) T	Methyl Iodide		0.650	0.627	0.578	0.603	0.677	0.627	6.22
11) T	Tert butyl alc...		0.130	0.128	0.113	0.122	0.138	0.126	7.45
12) CM	1,1-Dichloroet...	0.505	0.504	0.499	0.424	0.447	0.486	0.478	7.15#
13) T	Acrolein		0.137	0.131	0.116	0.118	0.132	0.127	7.07
14) T	Allyl chloride	1.061	1.012	0.995	0.897	0.945	1.038	0.992	6.13
15) T	Acrylonitrile	0.362	0.389	0.403	0.358	0.373	0.400	0.381	5.11
16) T	Acetone	0.386	0.326	0.334	0.305	0.303	0.331	0.331	9.13
17) T	Carbon Disulfide	1.539	1.413	1.155	1.018	1.059	1.146	1.222	16.98
18) T	Methyl Acetate	1.474	1.035	1.035	0.875	0.880	0.937	1.039	21.59
19) T	Methyl tert-bu...	1.861	1.824	1.946	1.762	1.840	1.999	1.872	4.60
20) T	Methylene Chlo...	0.762	0.662	0.652	0.571	0.560	0.598	0.634	11.85
21) T	trans-1,2-Dich...	0.591	0.566	0.534	0.475	0.480	0.513	0.527	8.84
22) T	Diisopropyl ether	2.089	2.070	2.173	1.949	1.918	2.055	2.042	4.61
23) T	Vinyl Acetate	1.650	1.688	1.779	1.659	1.683	1.832	1.715	4.28
24) P	1,1-Dichloroet...	1.249	1.179	1.199	1.050	1.059	1.119	1.142	7.01
25) T	2-Butanone	0.600	0.506	0.527	0.487	0.503	0.540	0.527	7.63
26) T	2,2-Dichloropr...	0.950	0.905	0.922	0.831	0.842	0.904	0.892	5.20
27) T	cis-1,2-Dichlo...	0.725	0.655	0.654	0.593	0.593	0.633	0.642	7.66
28) T	Bromochloromet...	0.547	0.497	0.547	0.476	0.499	0.502	0.512	5.70
29) T	Tetrahydrofuran	0.341	0.350	0.364	0.332	0.335	0.354	0.346	3.51
30) C	Chloroform	1.318	1.132	1.224	1.061	1.031	1.117	1.147	9.34#
31) T	Cyclohexane		1.249	1.093	0.923	0.903	0.960	1.026	14.17
32) T	1,1,1-Trichlor...	1.032	0.963	1.044	0.905	0.915	0.998	0.976	6.02
33) S	1,2-Dichloroet...		0.769	0.822	0.744	0.730	0.772	0.768	4.54
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.304	0.345	0.310	0.311	0.331	0.320	5.36
36) T	1,1-Dichloropr...	0.492	0.464	0.478	0.438	0.443	0.480	0.466	4.62
37) T	Ethyl Acetate	0.641	0.586	0.653	0.621	0.586	0.625	0.619	4.48
38) T	Carbon Tetrach...	0.586	0.497	0.510	0.443	0.456	0.502	0.499	10.08
39) T	Methylcyclohexane	0.535	0.519	0.510	0.483	0.514	0.564	0.521	5.22
40) TM	Benzene	1.543	1.514	1.478	1.344	1.348	1.442	1.445	5.80
41) T	Methacrylonitrile	0.318	0.327	0.311	0.259	0.313	0.350	0.313	9.66
42) TM	1,2-Dichloroet...	0.586	0.577	0.589	0.504	0.516	0.547	0.553	6.64
43) T	Isopropyl Acetate	1.329	0.950	1.026	0.884	0.902	0.998	1.015	16.09
44) TM	Trichloroethene	0.387	0.331	0.349	0.301	0.310	0.339	0.336	9.16
45) C	1,2-Dichloropr...	0.440	0.392	0.398	0.356	0.367	0.389	0.390	7.50#
46) T	Dibromomethane	0.239	0.262	0.257	0.231	0.232	0.246	0.245	5.28
47) T	Bromodichlorom...	0.521	0.501	0.531	0.487	0.498	0.541	0.513	4.11
48) T	Methyl methacr...	0.400	0.356	0.404	0.379	0.428	0.485	0.409	10.92
49) T	1,4-Dioxane	0.006	0.007	0.008	0.007	0.008	0.008	0.007	11.28
50) S	Toluene-d8		1.152	1.301	1.239	1.247	1.348	1.258	5.86
51) T	4-Methyl-2-Pen...	0.504	0.572	0.615	0.571	0.596	0.644	0.584	8.22
52) CM	Toluene	0.770	0.872	0.912	0.834	0.861	0.934	0.864	6.76#
53) T	t-1,3-Dichloro...	0.459	0.507	0.518	0.481	0.528	0.602	0.516	9.56
54) T	cis-1,3-Dichlo...	0.499	0.538	0.569	0.539	0.567	0.634	0.558	8.15
55) T	1,1,2-Trichlor...	0.368	0.370	0.380	0.338	0.346	0.371	0.362	4.50
56) T	Ethyl methacry...	0.413	0.484	0.548	0.529	0.579	0.665	0.537	15.92

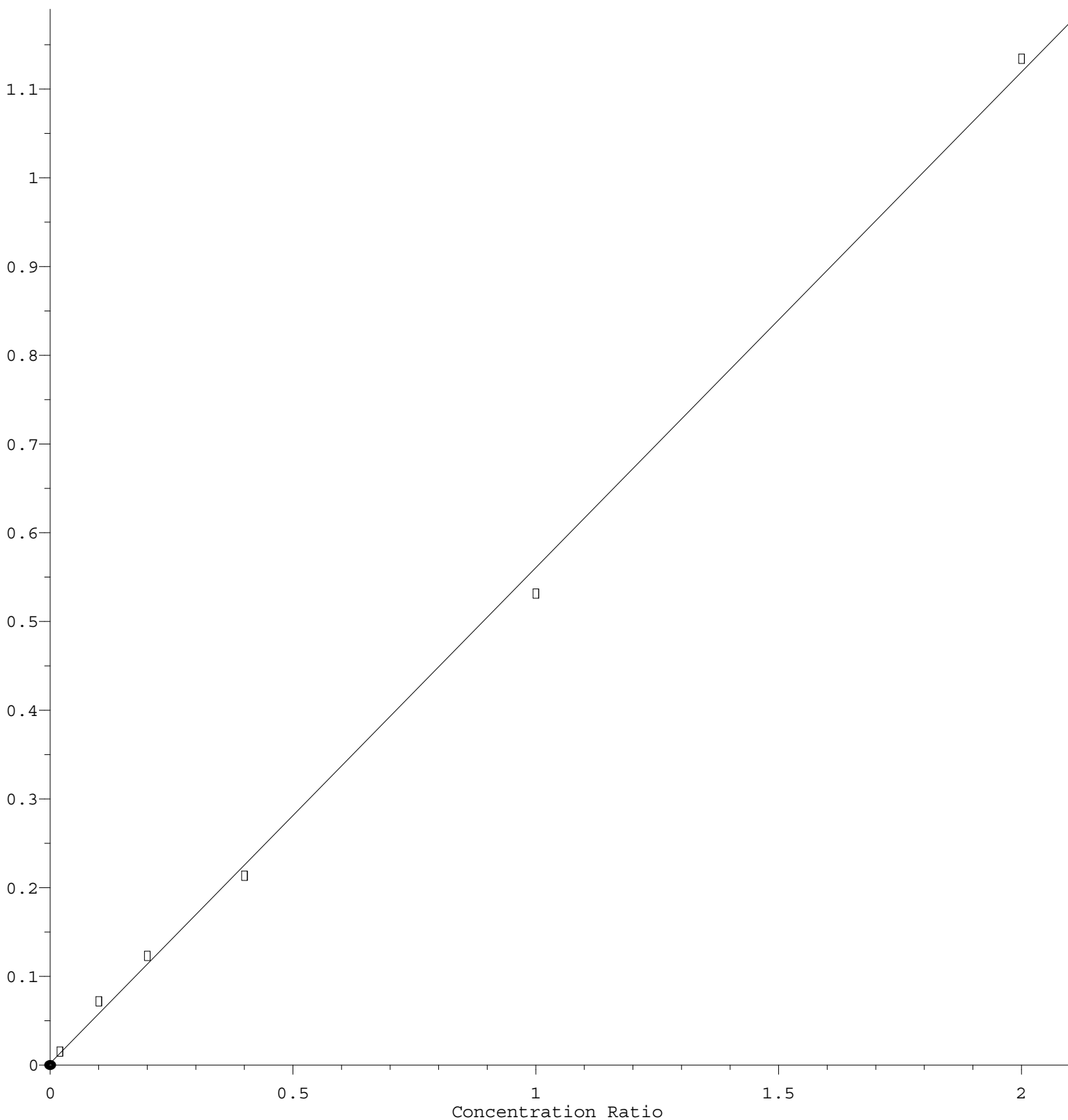
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57)	T	1,3-Dichloropr...	0.634	0.644	0.663	0.603	0.612	0.658	0.636	3.83
58)	T	2-Chloroethyl ...	0.083	0.103	0.122	0.128	0.153	0.182	0.129	27.57
59)	T	2-Hexanone	0.352	0.390	0.422	0.402	0.431	0.470	0.411	9.66
60)	T	Dibromochlorom...	0.360	0.366	0.374	0.350	0.365	0.406	0.370	5.19
61)	T	1,2-Dibromoethane	0.350	0.353	0.368	0.337	0.345	0.384	0.356	4.76
62)	S	4-Bromofluorob...	0.363	0.404	0.394	0.429	0.497	0.417	12.05	
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.338	0.311	0.320	0.274	0.277	0.286	0.301	8.57
65)	PM	Chlorobenzene	1.130	0.996	1.042	0.940	0.949	1.005	1.010	6.90
66)	T	1,1,1,2-Tetrac...	0.392	0.388	0.399	0.357	0.367	0.381	0.381	4.16
67)	C	Ethyl Benzene	1.596	1.755	1.823	1.691	1.788	1.918	1.762	6.29#
68)	T	m/p-Xylenes	0.609	0.642	0.671	0.633	0.665	0.706	0.654	5.19
69)	T	o-Xylene	0.585	0.606	0.635	0.614	0.663	0.703	0.634	6.74
70)	T	Styrene	0.861	0.910	1.008	0.988	1.060	1.166	0.999	10.86
71)	P	Bromoform	0.259	0.275	0.300	0.272	0.280	0.312	0.283	6.91
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.148	4.507	4.688	4.306	4.272	4.574	4.416	4.66
74)	T	N-amyl acetate	1.667	1.619	1.629	1.551	1.656	1.805	1.654	5.10
75)	P	1,1,2,2-Tetrac...	2.237	1.768	1.833	1.573	1.451	1.454	1.719	17.39
76)	T	1,2,3-Trichlor...	1.598	1.696	1.667	1.218	1.122	1.370	1.445	16.86
77)	T	Bromobenzene	1.276	1.074	1.043	0.939	0.930	1.003	1.044	12.15
78)	T	n-propylbenzene	4.408	4.878	5.059	4.703	4.822	5.319	4.865	6.37
79)	T	2-Chlorotoluene	3.105	3.325	3.450	3.071	2.998	3.224	3.195	5.33
80)	T	1,3,5-Trimethy...	3.261	3.733	3.972	3.719	3.568	3.814	3.678	6.61
81)	T	trans-1,4-Dich...	0.421	0.425	0.402	0.435	0.479	0.432	6.61	
82)	T	4-Chlorotoluene	2.942	3.006	3.065	2.868	2.857	3.110	2.975	3.48
83)	T	tert-Butylbenzene	3.028	3.343	3.440	3.085	3.136	3.342	3.229	5.18
84)	T	1,2,4-Trimethy...	2.966	3.656	3.806	3.592	3.557	3.772	3.558	8.60
85)	T	sec-Butylbenzene	3.575	4.222	4.413	4.215	4.207	4.627	4.210	8.35
86)	T	p-Isopropyltol...	2.613	3.148	3.402	3.329	3.424	3.777	3.282	11.78
87)	T	1,3-Dichlorobe...	1.727	1.685	1.797	1.597	1.613	1.722	1.690	4.47
88)	T	1,4-Dichlorobe...	1.728	1.629	1.711	1.561	1.555	1.678	1.644	4.52
89)	T	n-Butylbenzene	2.204	2.273	2.433	2.385	2.695	3.094	2.514	13.15
90)	T	Hexachloroethane	0.835	0.725	0.725	0.657	0.634	0.699	0.712	9.86
91)	T	1,2-Dichlorobe...	1.837	1.611	1.746	1.594	1.564	1.644	1.666	6.30
92)	T	1,2-Dibromo-3-...	0.338	0.304	0.303	0.287	0.289	0.312	0.305	6.12
93)	T	1,2,4-Trichlor...	0.644	0.507	0.605	0.657	0.720	0.804	0.656	15.36
94)	T	Hexachlorobuta...	0.538	0.470	0.457	0.410	0.401	0.403	0.446	11.98
95)	T	Naphthalene	1.531	1.286	1.514	1.789	2.305	2.798	1.870	30.62
96)	T	1,2,3-Trichlor...	0.532	0.508	0.606	0.650	0.697	0.808	0.634	17.55

(#) = Out of Range

Dichlorodifluoromethane

Response Ratio



$$\text{Response} = 5.585\text{e-}001 * \text{Amt} + 1.900\text{e-}003$$

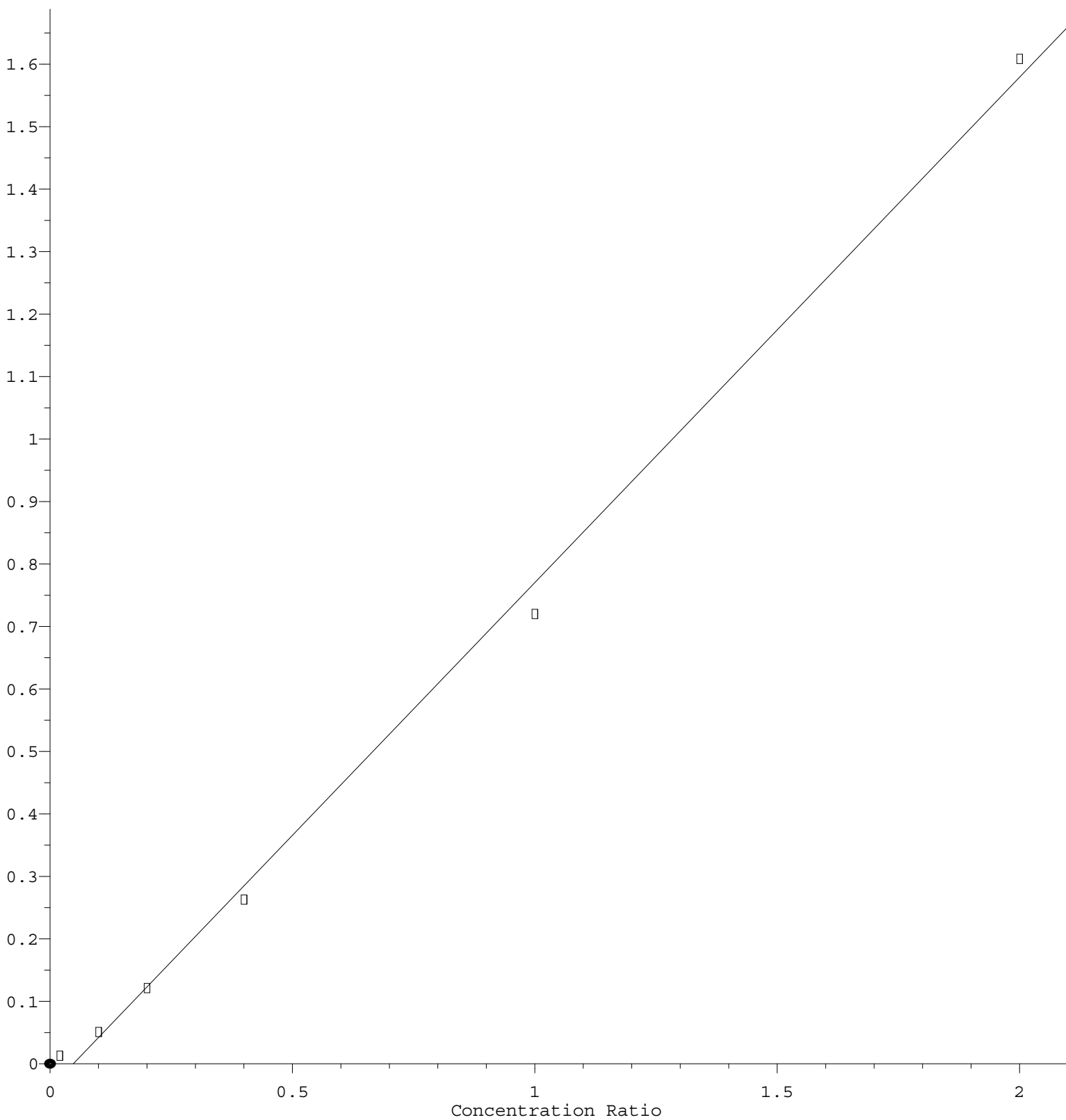
Coef of Det (r^2) = 0.998332 Curve Fit: Linear

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1,2,4-Trichlorobenzene

Response Ratio



$$\text{Response} = 8.093\text{e-}001 * \text{Amt} - 3.917\text{e-}002$$

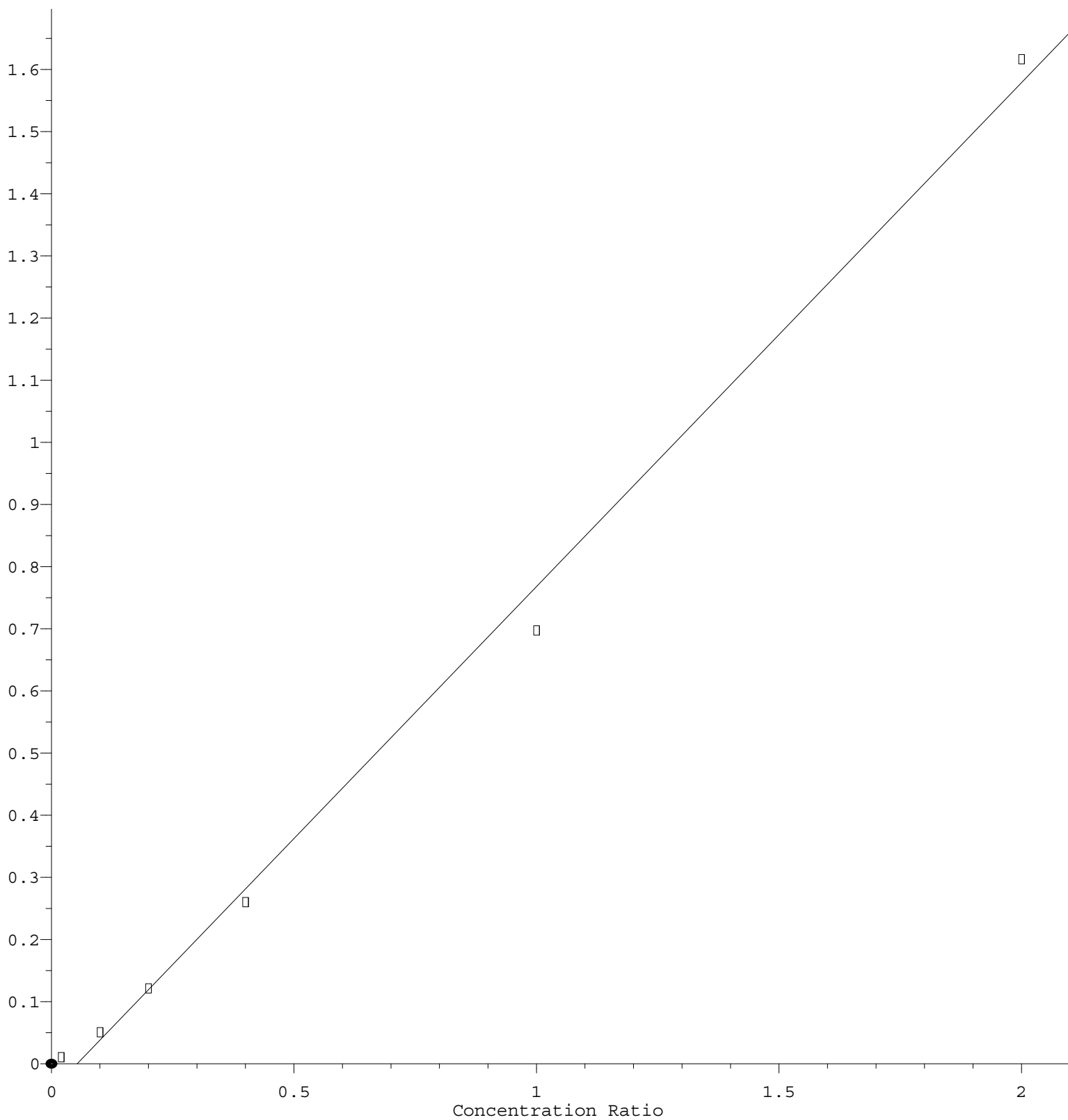
Coef of Det (r^2) = 0.997270 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N042622W.M

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1,2,3-Trichlorobenzene

Response Ratio



$$\text{Response} = 8.109\text{e-}001 * \text{Amt} - 4.336\text{e-}002$$

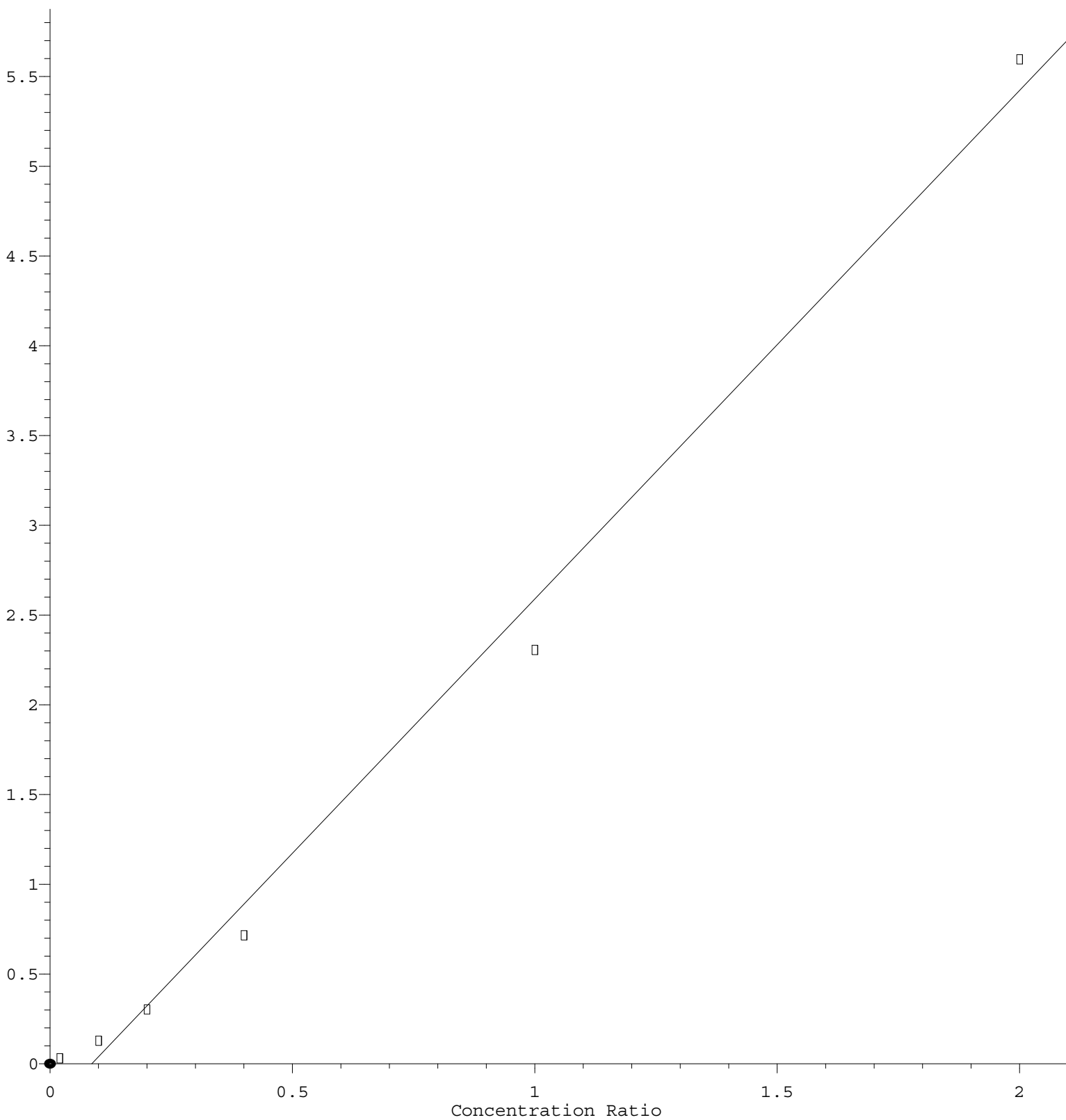
Coef of Det (r^2) = 0.995609 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N042622W.M

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Naphthalene

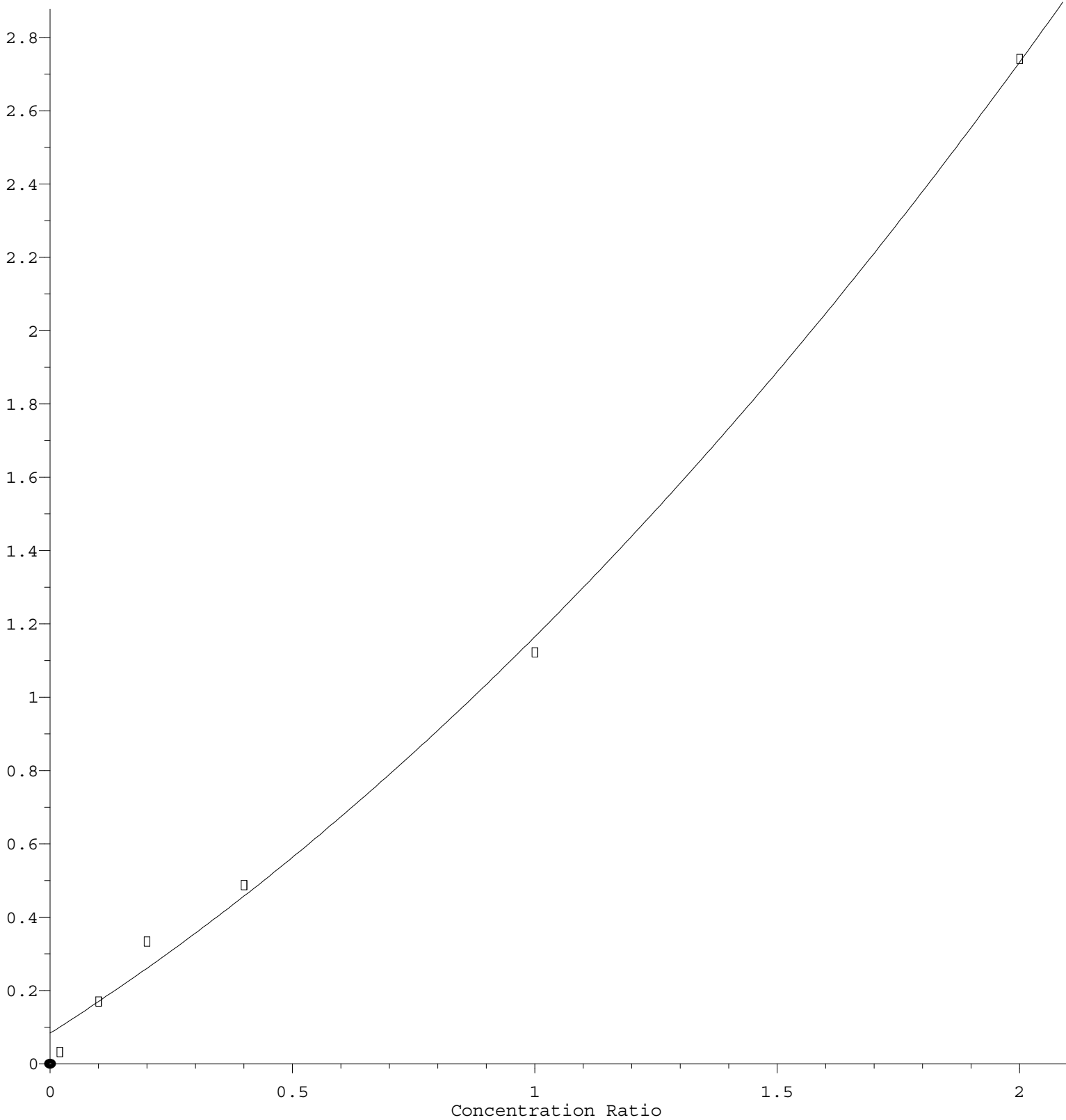
Response Ratio



Response = 2.833e+000 * Amt - 2.436e-001
 Coef of Det (r^2) = 0.991636 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N042622W.M
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1,2,3-Trichloropropane

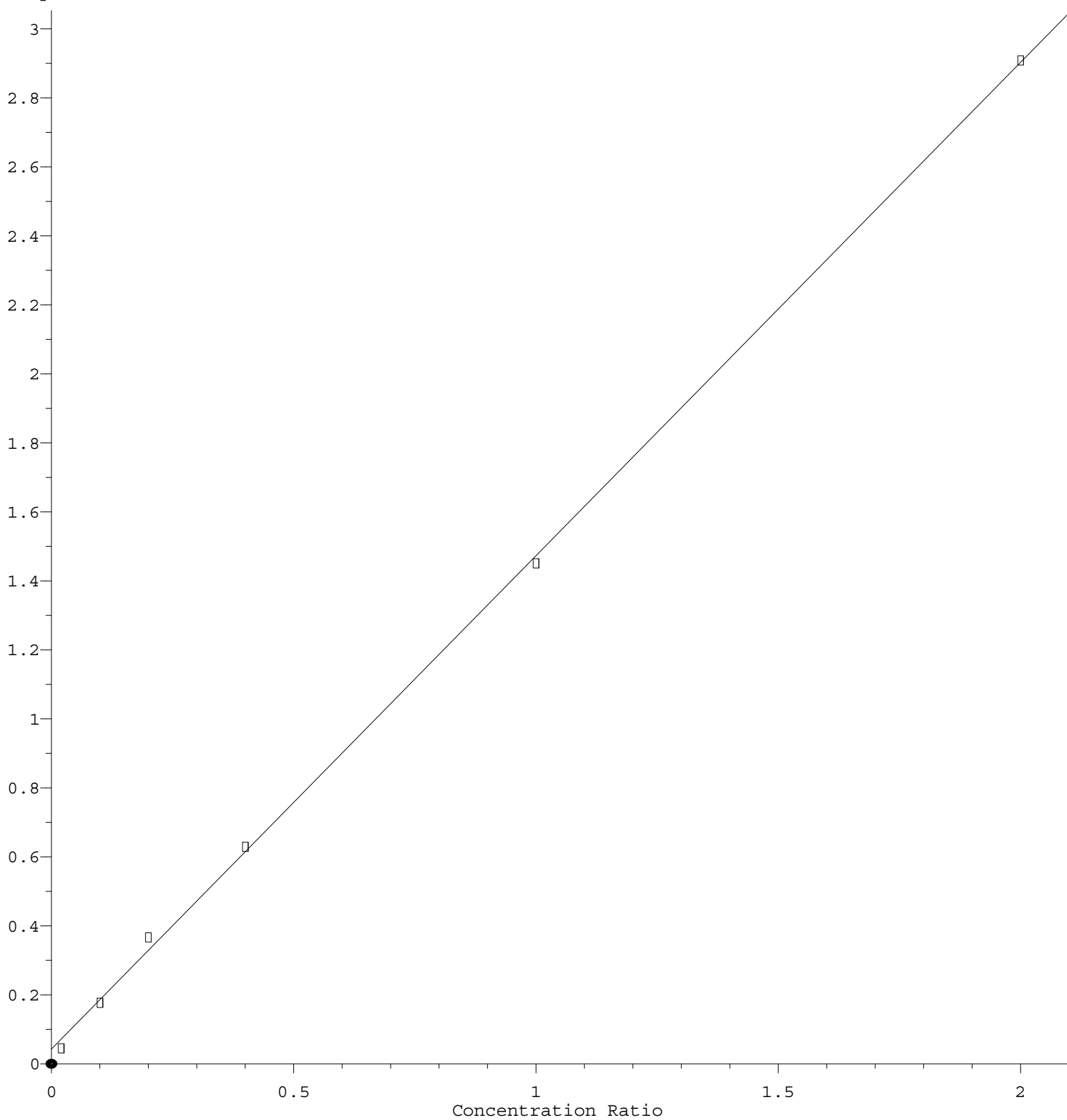
Response Ratio



$R = 2.433e-001 A^2 + 8.378e-001 A + 8.355e-002$
 Coef of Det (r^2) = 0.997542 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N042622W.M
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1,1,2,2-Tetrachloroethane

Response Ratio



$$\text{Response} = 1.430\text{e}+000 * \text{Amt} + 4.253\text{e}-002$$

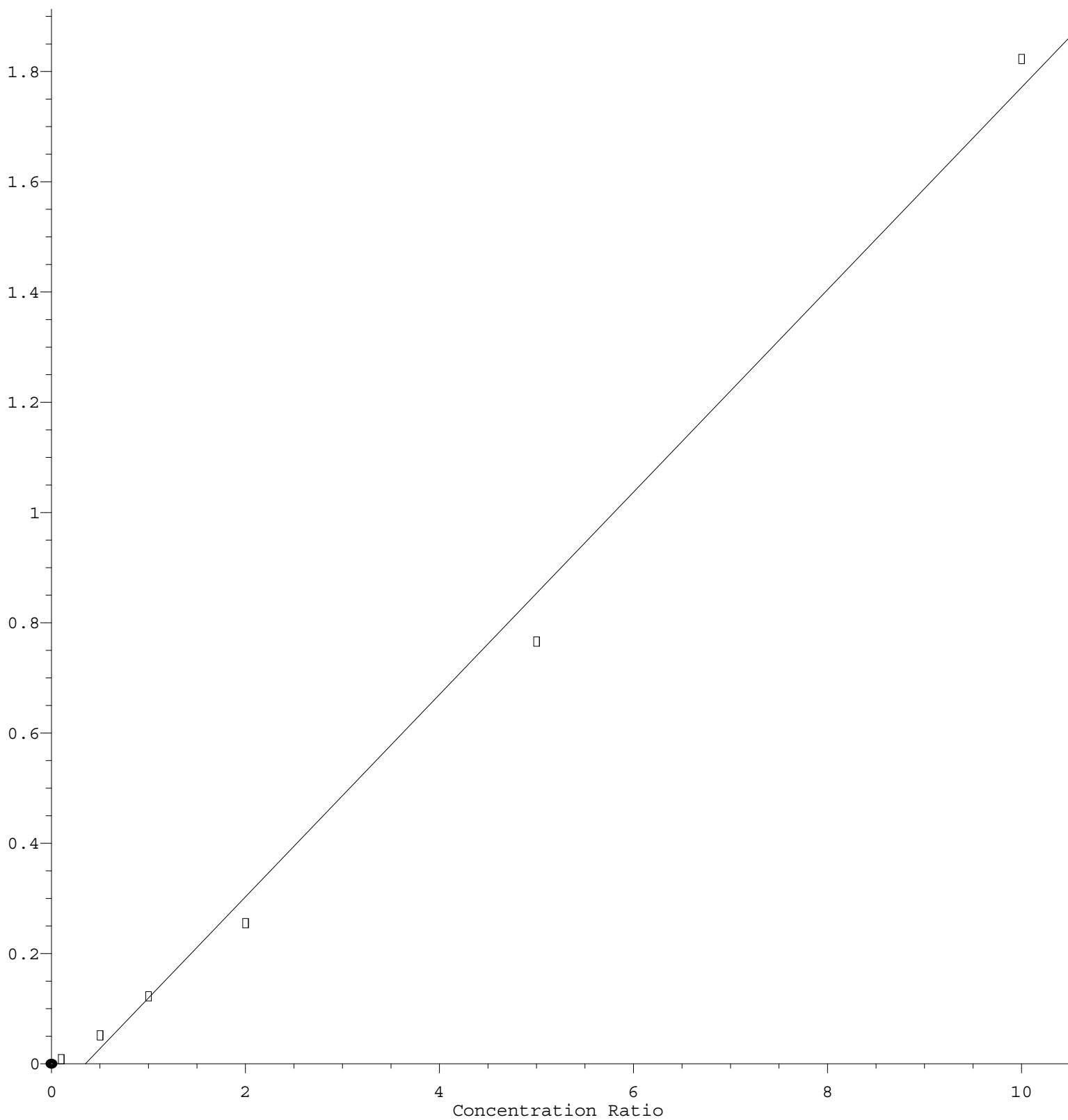
Coef of Det (r^2) = 0.999505 Curve Fit: Linear

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2-Chloroethyl Vinyl ether

Response Ratio



$$\text{Response} = 1.837\text{e-}001 * \text{Amt} - 6.514\text{e-}002$$

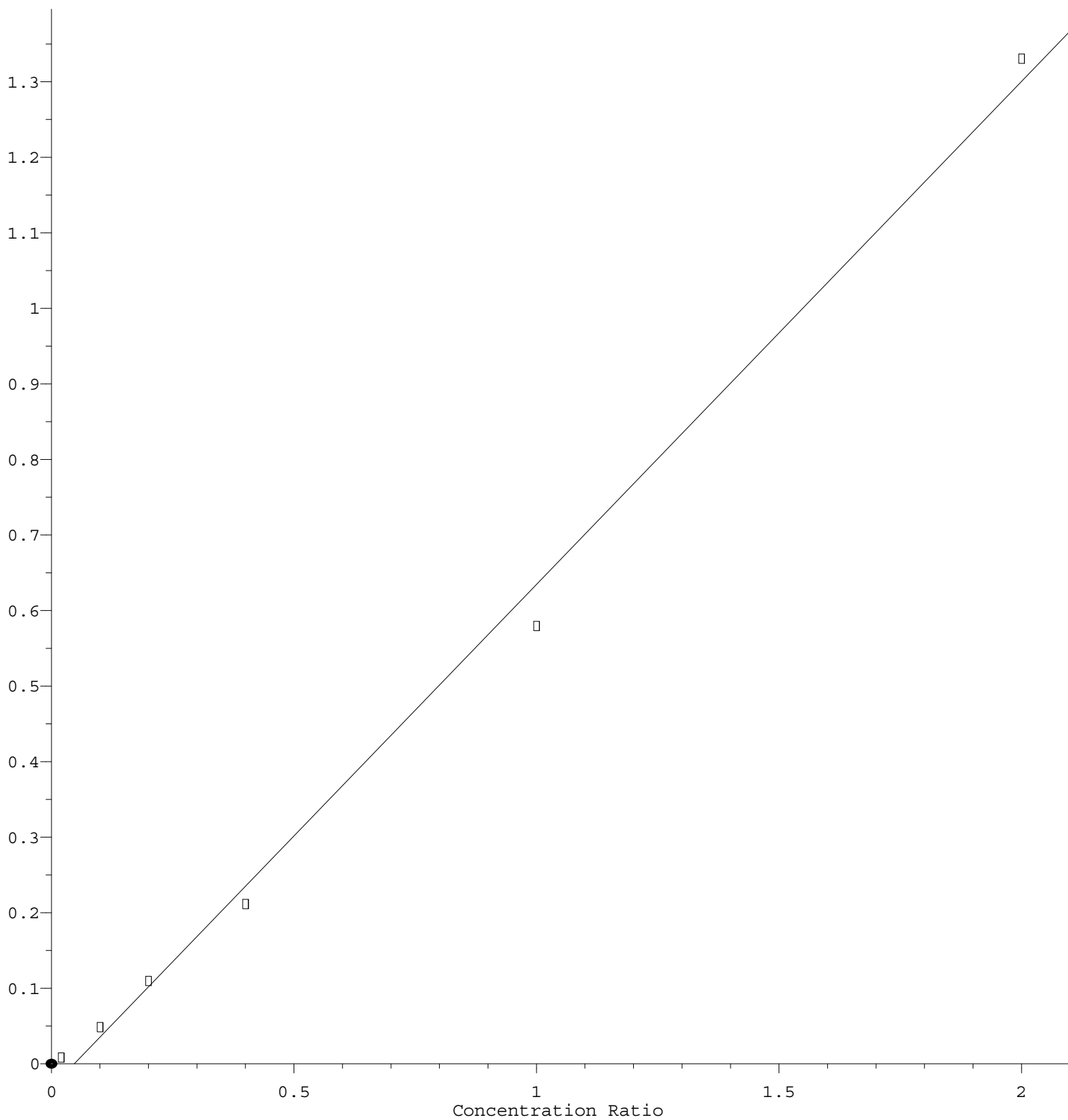
Coef of Det (r^2) = 0.993464 Curve Fit: Linear

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Ethyl methacrylate

Response Ratio



$$\text{Response} = 6.658\text{e-}001 * \text{Amt} - 3.149\text{e-}002$$

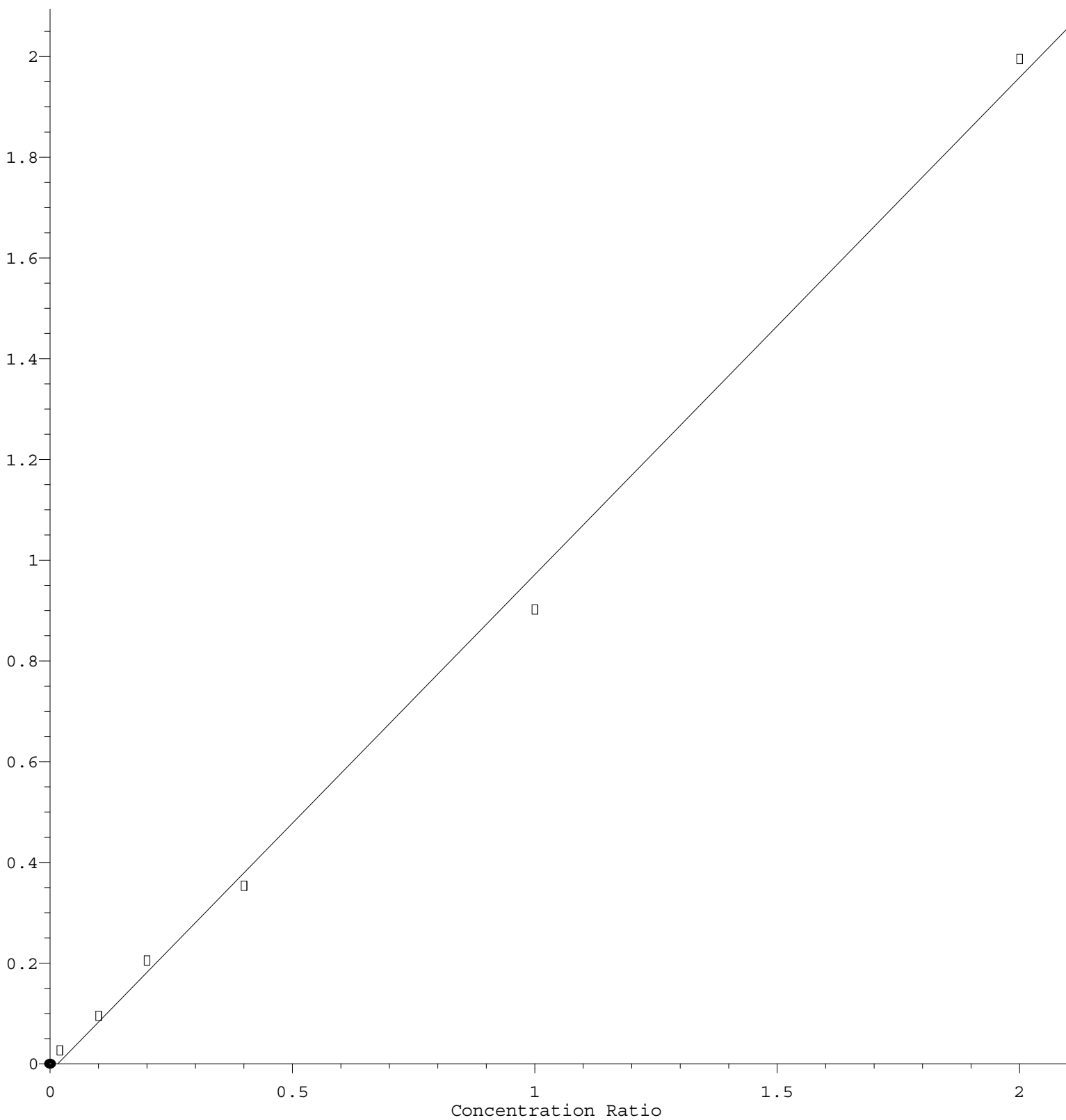
Coef of Det (r^2) = 0.995813 Curve Fit: Linear

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Isopropyl Acetate

Response Ratio



$$\text{Response} = 9.871\text{e-}001 * \text{Amt} - 1.582\text{e-}002$$

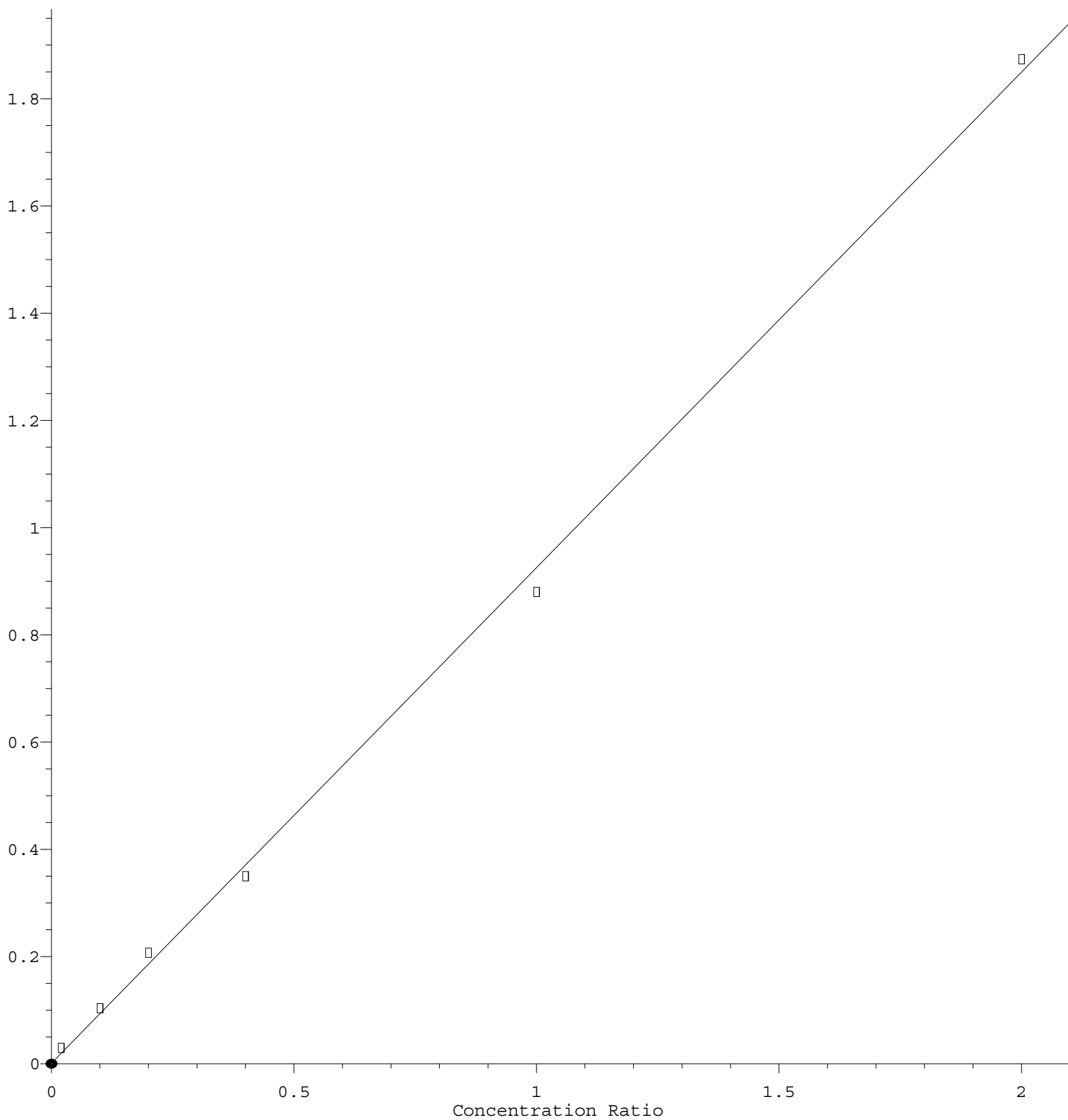
Coef of Det (r^2) = 0.997176 Curve Fit: Linear

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Methyl Acetate

Response Ratio



$$\text{Response} = 9.245\text{e-}001 * \text{Amt} + 7.356\text{e-}004$$

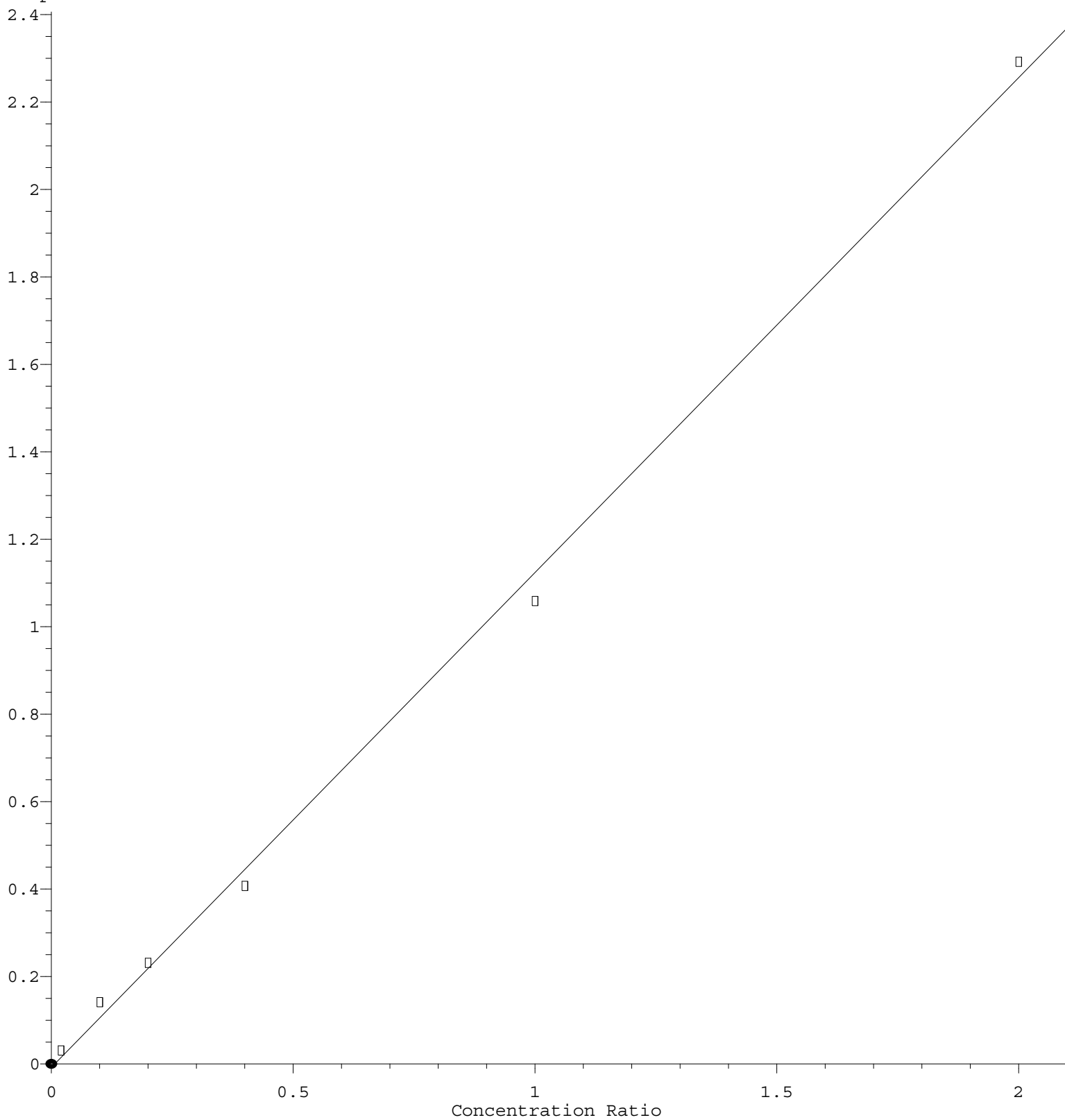
Coef of Det (r^2) = 0.998503 Curve Fit: Linear

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Carbon Disulfide

Response Ratio



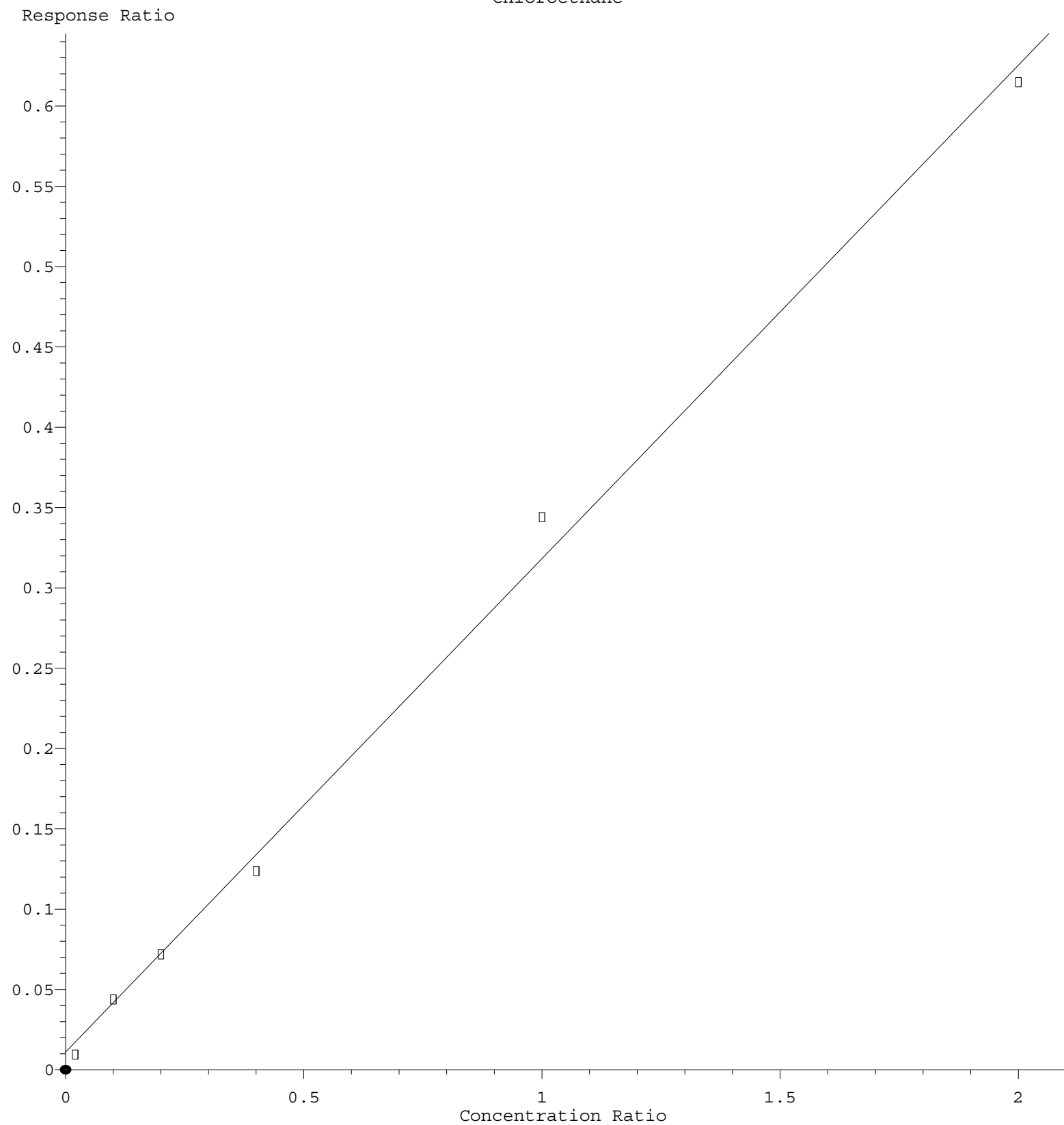
$$\text{Response} = 1.132\text{e}+000 * \text{Amt} - 8.219\text{e}-003$$

Coef of Det (r^2) = 0.997668 Curve Fit: Linear

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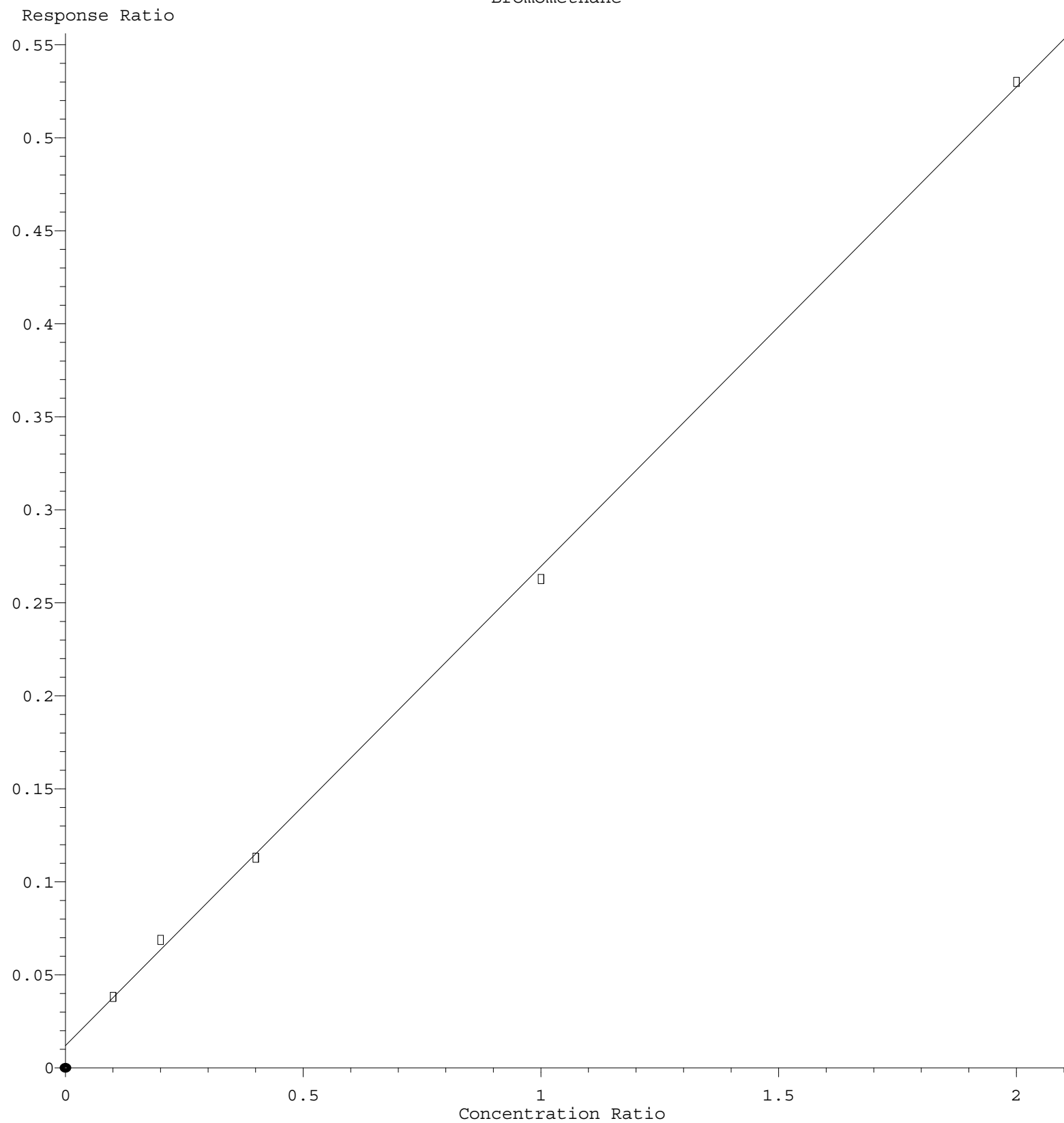
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Chloroethane



Response = $3.076 \times 10^{-1} \times \text{Amt} + 1.054 \times 10^{-2}$
Coef of Det (r^2) = 0.996572 Curve Fit: Linear
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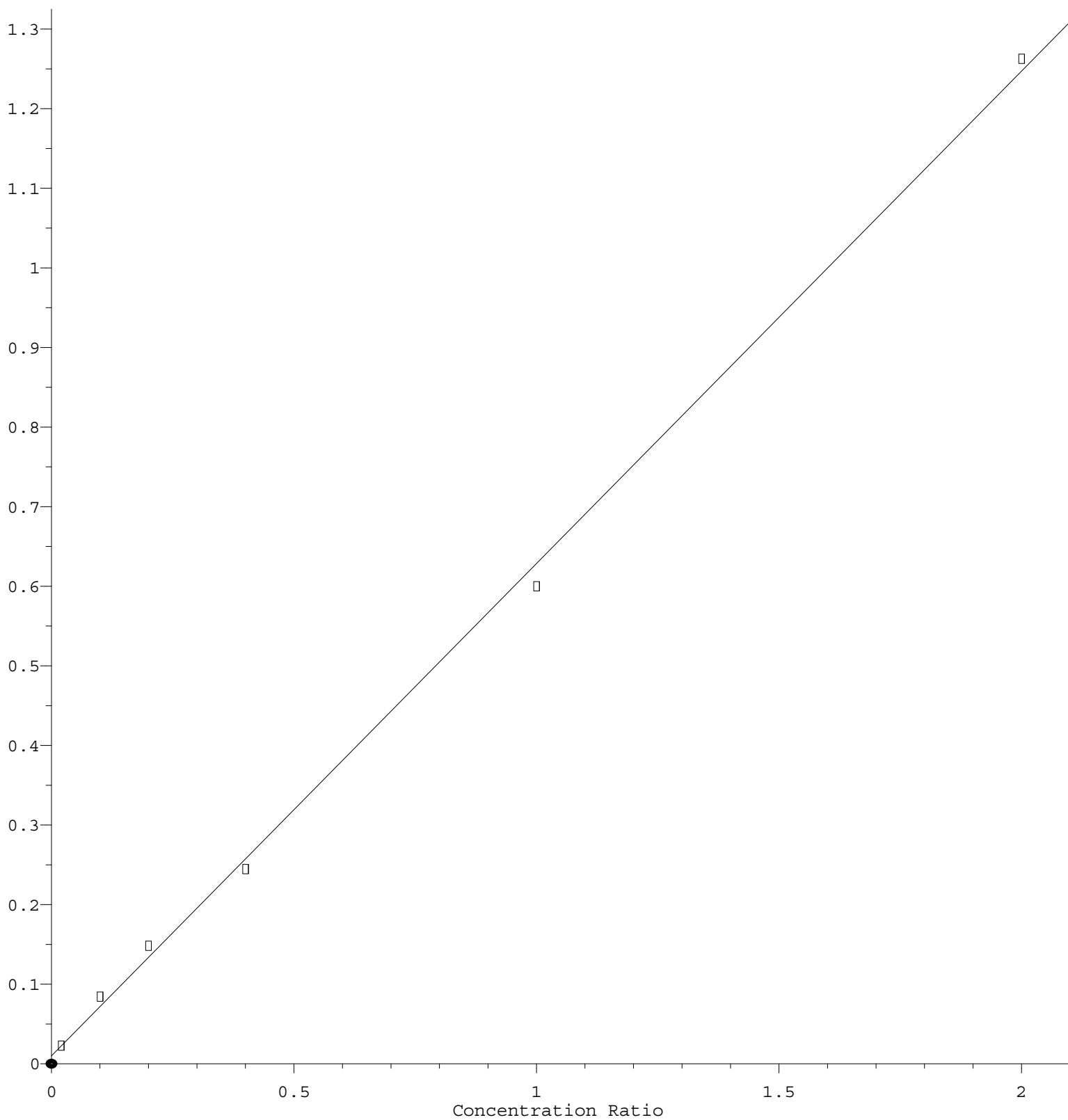
Bromomethane



Response = 2.574e-001 * Amt + 1.208e-002
 Coef of Det (r^2) = 0.999471 Curve Fit: Linear
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Chloromethane

Response Ratio



$$\text{Response} = 6.187\text{e-}001 * \text{Amt} + 1.018\text{e-}002$$

Coef of Det (r^2) = 0.998570 Curve Fit: Linear

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