

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y020124S.M
 Title : SW846 8260
 Last Update : Fri Feb 02 00:56:04 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY017165.D 10 =VY017166.D 20 =VY017167.D 50 =VY017168.D 100 =VY017169.D 150 =VY017170.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.429	0.448	0.411	0.322	0.340	0.325	0.379	14.87
3) P	Chloromethane	0.767	0.792	0.705	0.609	0.629	0.583	0.681	12.74
4) C	Vinyl Chloride	0.937	0.940	0.845	0.739	0.780	0.737	0.830	11.20#
5) T	Bromomethane	0.672	0.633	0.576	0.502	0.541	0.527	0.575	11.43
6) T	Chloroethane	0.588	0.586	0.538	0.488	0.521	0.495	0.536	8.10
7) T	Trichlorofluor...	0.916	0.932	0.870	0.767	0.832	0.803	0.853	7.55
8) T	Diethyl Ether	0.265	0.267	0.279	0.258	0.277	0.265	0.268	3.05
9) T	1,1,2-Trichlor...	0.552	0.563	0.515	0.475	0.508	0.490	0.517	6.59
10) T	Methyl Iodide	0.506	0.528	0.545	0.528	0.591	0.566	0.544	5.63
11) T	Tert butyl alc...	0.065	0.047	0.045	0.033	0.038	0.036	0.044	26.28
12) CM	1,1-Dichloroet...	0.502	0.523	0.483	0.449	0.486	0.466	0.485	5.38#
13) T	Acrolein	0.051	0.041	0.045	0.035	0.037	0.036	0.041	15.71
14) T	Allyl chloride	0.731	0.754	0.735	0.694	0.767	0.714	0.733	3.60
15) T	Acrylonitrile	0.126	0.118	0.123	0.114	0.126	0.118	0.121	4.10
16) T	Acetone	0.157	0.141	0.140	0.113	0.123	0.113	0.131	13.35
17) T	Carbon Disulfide	1.615	1.699	1.554	1.438	1.535	1.441	1.547	6.53
18) T	Methyl Acetate	0.272	0.261	0.267	0.306	0.335	0.316	0.293	10.31
19) T	Methyl tert-bu...	1.118	1.143	1.160	1.117	1.250	1.215	1.167	4.66
20) T	Methylene Chlo...	0.838	0.709	0.597	0.516	0.539	0.506	0.617	21.27
21) T	trans-1,2-Dich...	0.546	0.581	0.552	0.519	0.572	0.539	0.551	4.04
22) T	Diisopropyl ether	1.515	1.677	1.642	1.563	1.678	1.580	1.609	4.16
23) T	Vinyl Acetate	0.909	0.964	1.015	0.932	1.040	0.988	0.975	5.10
24) P	1,1-Dichloroet...	1.036	1.047	0.982	0.921	0.991	0.937	0.986	5.15
25) T	2-Butanone	0.187	0.178	0.186	0.156	0.177	0.164	0.175	7.11
26) T	2,2-Dichloropr...	0.856	0.856	0.798	0.764	0.842	0.803	0.820	4.56
27) T	cis-1,2-Dichlo...	0.623	0.638	0.605	0.582	0.637	0.616	0.617	3.44
28) T	Bromochloromet...	0.383	0.377	0.351	0.403	0.390	0.362	0.377	5.01
29) T	Tetrahydrofuran	0.097	0.093	0.102	0.094	0.106	0.100	0.099	5.13
30) C	Chloroform	1.023	1.051	0.991	0.930	0.999	0.955	0.992	4.47#
31) T	Cyclohexane	1.034	0.987	0.870	0.814	0.867	0.829	0.900	9.91
32) T	1,1,1-Trichlor...	0.856	0.903	0.837	0.803	0.872	0.848	0.853	3.92
33) S	1,2-Dichloroet...	0.488	0.389	0.427	0.462	0.470	0.444	0.447	7.91
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.274	0.240	0.258	0.278	0.293	0.278	0.270	6.92
36) T	1,1-Dichloropr...	0.448	0.492	0.470	0.442	0.481	0.462	0.466	4.14
37) T	Ethyl Acetate	0.232	0.217	0.222	0.197	0.218	0.210	0.216	5.44
38) T	Carbon Tetrach...	0.424	0.479	0.431	0.415	0.469	0.457	0.446	5.87
39) T	Methylcyclohexane	0.495	0.559	0.521	0.520	0.588	0.581	0.544	6.90
40) TM	Benzene	1.288	1.378	1.338	1.242	1.394	1.339	1.330	4.24
41) T	Methacrylonitrile	0.098	0.088	0.116	0.093	0.110	0.110	0.102	10.76
42) TM	1,2-Dichloroet...	0.354	0.357	0.359	0.330	0.365	0.349	0.352	3.44
43) T	Isopropyl Acetate	0.355	0.362	0.391	0.358	0.422	0.405	0.382	7.35
44) TM	Trichloroethene	0.319	0.351	0.333	0.320	0.356	0.347	0.338	4.80
45) C	1,2-Dichloropr...	0.317	0.334	0.335	0.308	0.342	0.324	0.327	3.84#
46) T	Dibromomethane	0.168	0.176	0.182	0.166	0.186	0.180	0.176	4.50
47) T	Bromodichlorom...	0.425	0.457	0.445	0.413	0.463	0.447	0.442	4.30
48) T	Methyl methacr...	0.162	0.169	0.180	0.171	0.201	0.193	0.179	8.29
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	8.64
50) S	Toluene-d8	0.956	0.844	0.910	1.044	1.104	1.040	0.983	9.84
51) T	4-Methyl-2-Pen...	0.182	0.194	0.213	0.195	0.228	0.217	0.205	8.40
52) CM	Toluene	0.722	0.827	0.800	0.769	0.864	0.834	0.803	6.36#
53) T	t-1,3-Dichloro...	0.370	0.409	0.406	0.396	0.464	0.444	0.415	8.16
54) T	cis-1,3-Dichlo...	0.444	0.498	0.497	0.475	0.545	0.522	0.497	7.09
55) T	1,1,2-Trichlor...	0.231	0.237	0.244	0.228	0.255	0.245	0.240	4.17
56) T	Ethyl methacry...	0.227	0.263	0.291	0.290	0.348	0.334	0.292	15.22

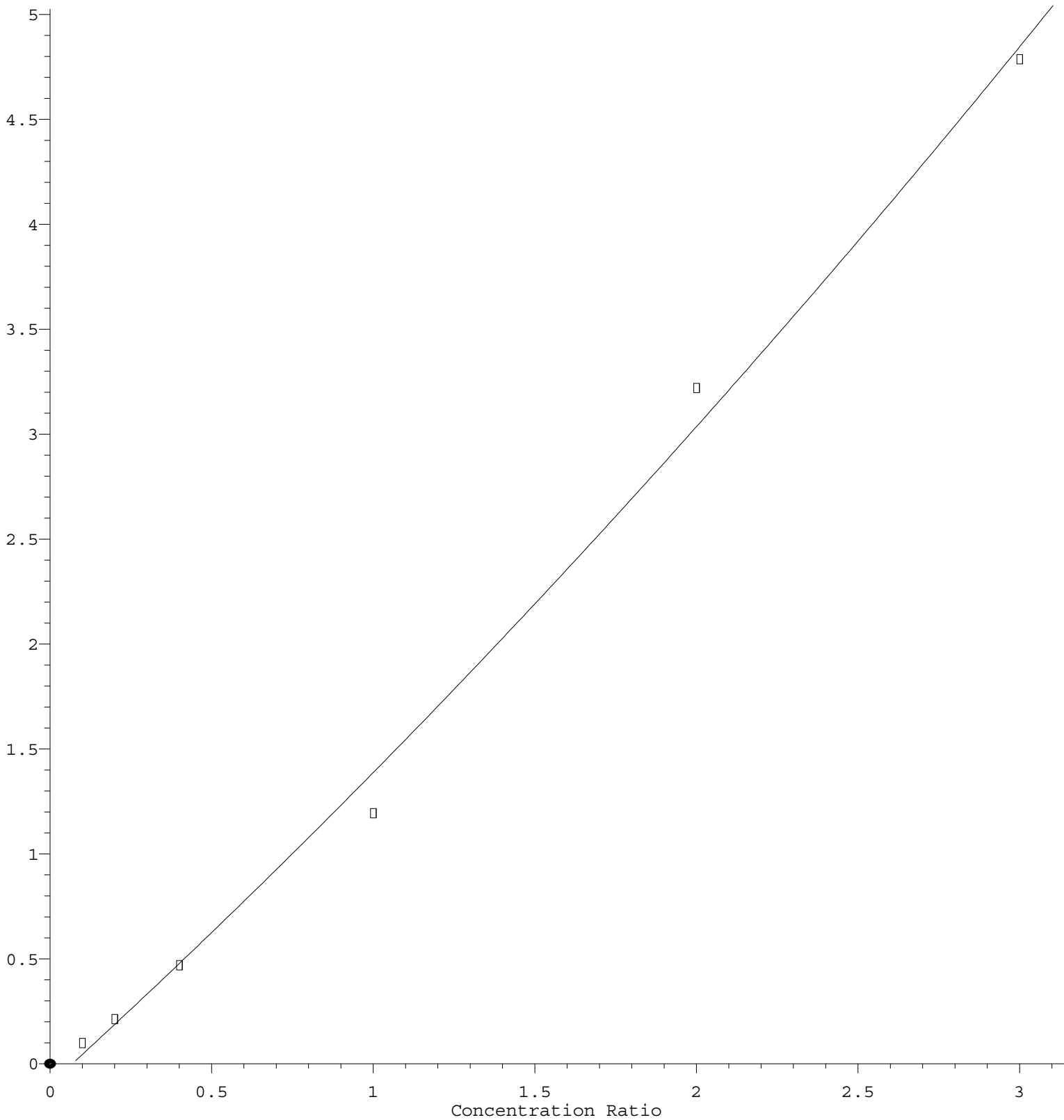
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57)	T	1,3-Dichloropr...	0.400	0.405	0.421	0.393	0.439	0.418	0.413	4.08
58)	T	2-Chloroethyl ...	0.121	0.124	0.157	0.152	0.174	0.169	0.150	14.92
59)	T	2-Hexanone	0.134	0.139	0.157	0.140	0.164	0.155	0.148	8.23
60)	T	Dibromochlorom...	0.269	0.280	0.279	0.263	0.304	0.294	0.282	5.43
61)	T	1,2-Dibromoethane	0.218	0.217	0.225	0.207	0.242	0.232	0.223	5.54
62)	S	4-Bromofluorob...	0.320	0.277	0.302	0.334	0.361	0.339	0.322	9.12
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.318	0.345	0.322	0.297	0.334	0.331	0.325	5.05
65)	PM	Chlorobenzene	0.936	1.002	0.960	0.901	1.005	0.984	0.965	4.21
66)	T	1,1,1,2-Tetrac...	0.327	0.348	0.350	0.326	0.376	0.375	0.351	6.25
67)	C	Ethyl Benzene	1.542	1.742	1.710	1.668	1.915	1.881	1.743	7.93#
68)	T	m/p-Xylenes	0.572	0.664	0.659	0.633	0.727	0.715	0.662	8.54
69)	T	o-Xylene	0.511	0.599	0.597	0.588	0.682	0.679	0.609	10.52
70)	T	Styrene	0.778	0.983	1.006	0.986	1.142	1.127	1.004	13.04
71)	P	Bromoform	0.166	0.179	0.182	0.171	0.203	0.200	0.184	8.20
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.125	3.846	3.636	3.533	3.989	3.909	3.673	8.67
74)	T	N-amyl acetate	0.694	0.792	0.827	0.797	0.942	0.902	0.825	10.63
75)	P	1,1,2,2-Tetrac...	0.726	0.749	0.718	0.674	0.751	0.717	0.722	3.88
76)	T	1,2,3-Trichlor...	0.448	0.468	0.463	0.416	0.539	0.436	0.461	9.22
77)	T	Bromobenzene	0.800	0.833	0.788	0.761	0.862	0.845	0.815	4.69
78)	T	n-propylbenzene	3.983	4.721	4.429	4.357	4.862	4.716	4.511	7.14
79)	T	2-Chlorotoluene	2.226	2.615	2.489	2.354	2.633	2.564	2.480	6.48
80)	T	1,3,5-Trimethy...	2.479	3.035	2.883	2.817	3.211	3.103	2.921	8.91
81)	T	trans-1,4-Dich...	0.208	0.219	0.215	0.209	0.242	0.239	0.222	6.76
82)	T	4-Chlorotoluene	2.417	2.656	2.510	2.430	2.694	2.609	2.553	4.61
83)	T	tert-Butylbenzene	2.152	2.558	2.439	2.431	2.764	2.680	2.504	8.66
84)	T	1,2,4-Trimethy...	2.434	2.936	2.842	2.801	3.182	3.106	2.884	9.21
85)	T	sec-Butylbenzene	3.375	4.106	3.884	3.775	4.231	4.112	3.914	7.97
86)	T	p-Isopropyltol...	2.614	3.206	3.019	3.019	3.457	3.450	3.128	10.17
87)	T	1,3-Dichlorobe...	1.542	1.702	1.571	1.516	1.717	1.704	1.625	5.66
88)	T	1,4-Dichlorobe...	1.587	1.628	1.551	1.446	1.654	1.609	1.579	4.68
89)	T	n-Butylbenzene	2.578	3.041	2.908	2.881	3.265	3.169	2.974	8.19
90)	T	Hexachloroethane	0.628	0.684	0.614	0.597	0.676	0.654	0.642	5.42
91)	T	1,2-Dichlorobe...	1.332	1.424	1.360	1.295	1.456	1.435	1.384	4.64
92)	T	1,2-Dibromo-3-...	0.094	0.090	0.095	0.085	0.101	0.099	0.094	6.29
93)	T	1,2,4-Trichlor...	0.611	0.631	0.671	0.644	0.781	0.787	0.687	11.26
94)	T	Hexachlorobuta...	0.402	0.445	0.379	0.362	0.425	0.415	0.405	7.52
95)	T	Naphthalene	0.985	1.064	1.173	1.194	1.610	1.596	1.270	21.13
96)	T	1,2,3-Trichlor...	0.488	0.582	0.567	0.529	0.677	0.664	0.585	12.73

(#) = Out of Range

Naphthalene

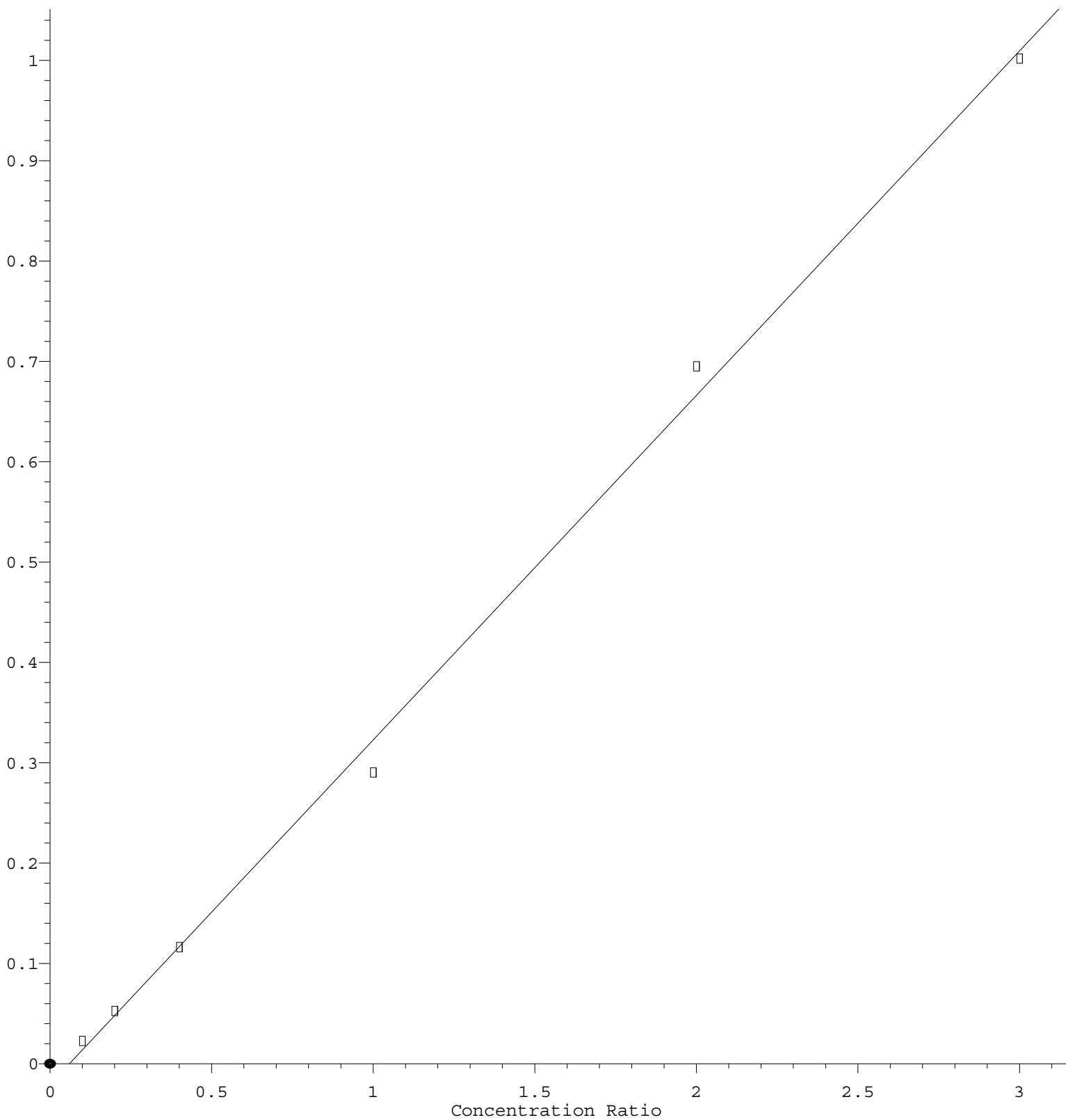
Response Ratio



$R = 8.168e-002 A^2 + 1.403e+000 A - 9.638e-002$
 Coef of Det (r^2) = 0.995710 Curve Fit: Quadratic
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Ethyl methacrylate

Response Ratio



$$\text{Response} = 3.436\text{e-}001 * \text{Amt} - 2.065\text{e-}002$$

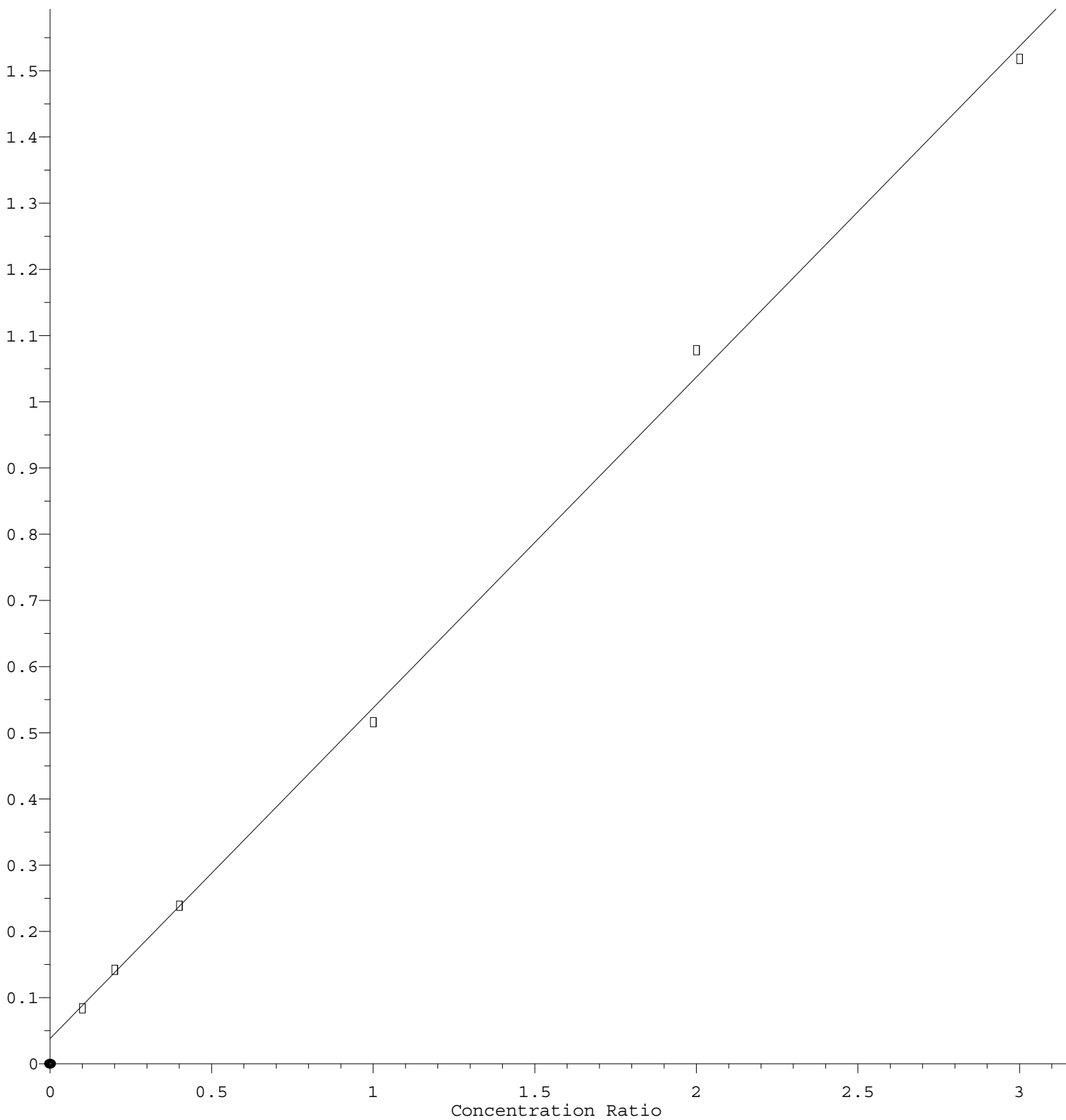
Coef of Det (r^2) = 0.997425 Curve Fit: Linear

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Methylene Chloride

Response Ratio



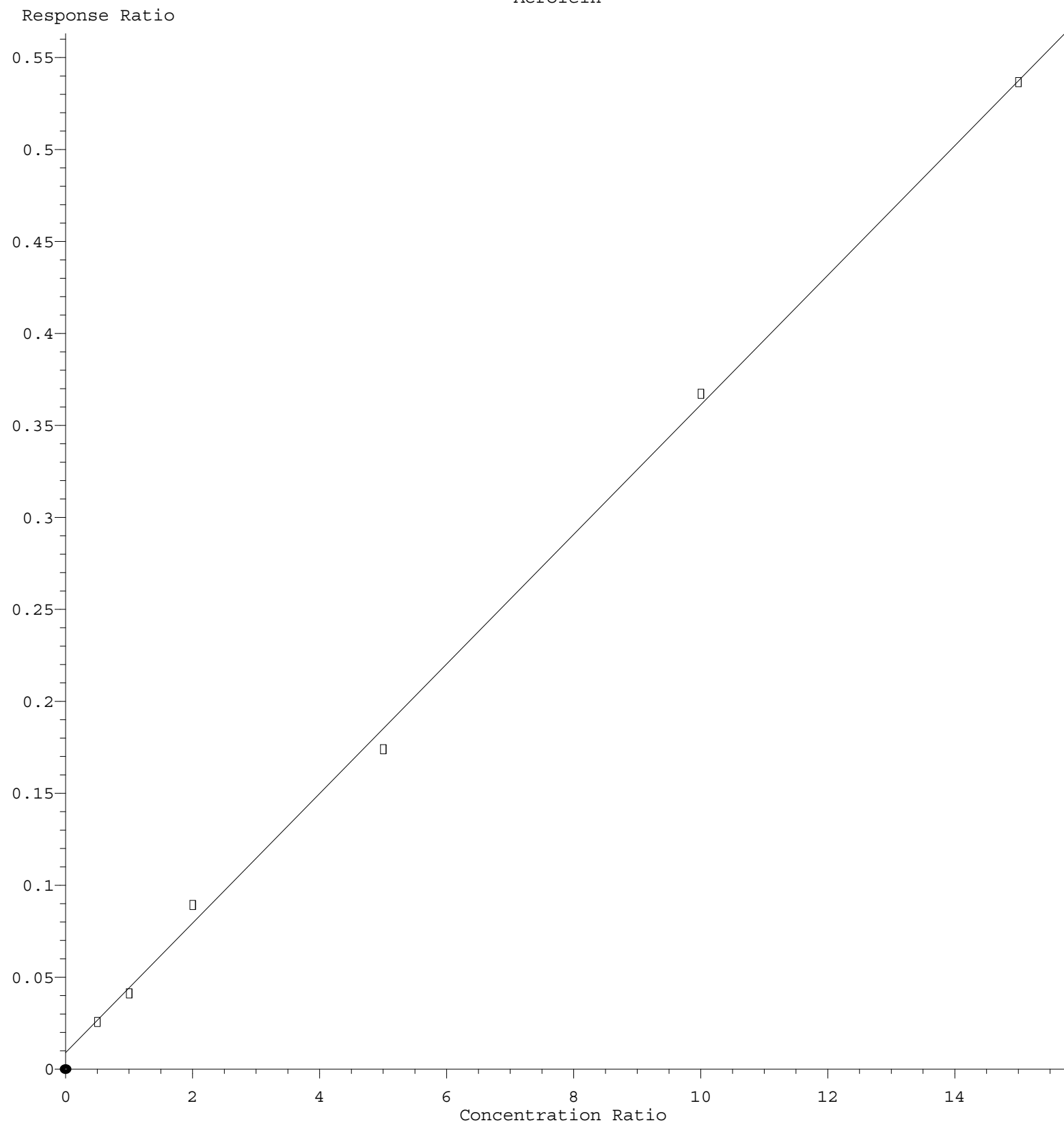
$$\text{Response} = 5.000\text{e-}001 * \text{Amt} + 3.767\text{e-}002$$

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

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y020124S.M

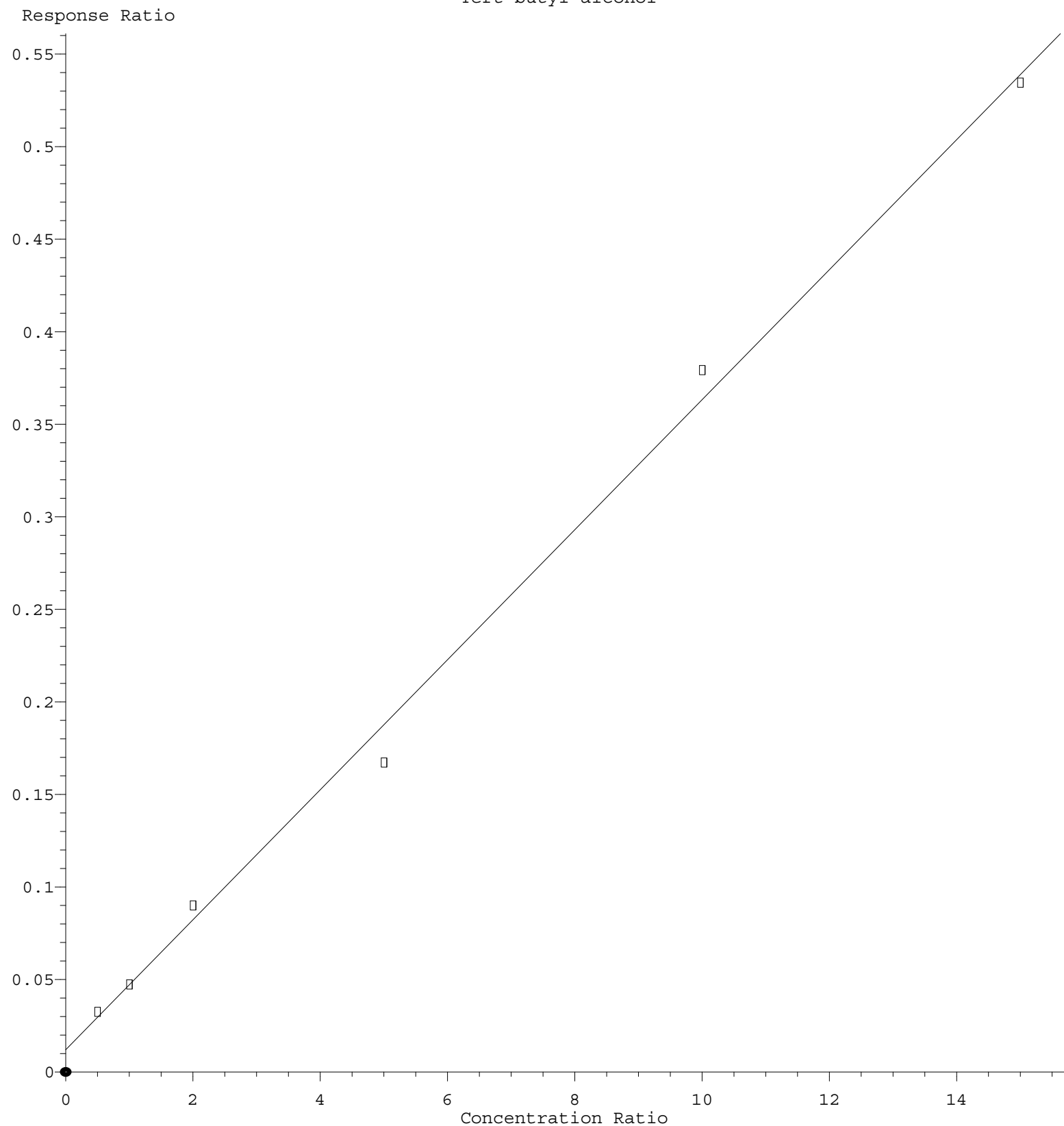
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Acrolein



Response = $3.528 \times 10^{-2} \times \text{Amt} + 8.670 \times 10^{-3}$
 Coef of Det (r^2) = 0.998725 Curve Fit: Linear
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Tert butyl alcohol



Response = $3.512 \times 10^{-2} \times \text{Amt} + 1.240 \times 10^{-2}$
Coef of Det (r^2) = 0.996353 Curve Fit: Linear
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