

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y022123S.M
 Title : SW846 8260
 Last Update : Wed Feb 22 01:21:05 2023
 Response Via : Initial Calibration

Calibration Files

5 =VY012674.D 10 =VY012675.D 20 =VY012676.D 50 =VY012677.D 100 =VY012678.D 150 =VY012679.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.572	0.518	0.515	0.478	0.504	0.498	0.514	6.16
3) P	Chloromethane	0.854	0.759	0.715	0.615	0.605	0.576	0.687	15.68
4) C	Vinyl Chloride	0.615	0.579	0.570	0.542	0.552	0.550	0.568	4.70#
5) T	Bromomethane	0.327	0.314	0.300	0.289	0.310	0.326	0.311	4.68
6) T	Chloroethane	0.417	0.374	0.378	0.326	0.337	0.338	0.362	9.49
7) T	Trichlorofluor...	1.006	0.913	0.917	0.869	0.895	0.892	0.916	5.21
8) T	Diethyl Ether	0.322	0.339	0.328	0.328	0.337	0.312	0.328	3.09
9) T	1,1,2-Trichlor...	0.601	0.559	0.561	0.517	0.525	0.520	0.547	5.96
10) T	Methyl Iodide	0.741	0.702	0.713	0.706	0.726	0.711	0.716	2.04
11) T	Tert butyl alc...	0.083	0.072	0.067	0.058	0.062	0.045	0.065	20.13
12) CM	1,1-Dichloroet...	0.561	0.537	0.544	0.503	0.517	0.506	0.528	4.37#
13) T	Acrolein	0.068	0.078	0.088	0.089	0.089	0.078	0.082	10.50
14) T	Allyl chloride	1.071	1.013	1.039	1.012	1.035	0.981	1.025	3.00
15) T	Acrylonitrile	0.166	0.174	0.179	0.186	0.185	0.156	0.174	6.59
16) T	Acetone	0.190	0.186	0.188	0.207	0.219	0.167	0.193	9.45
17) T	Carbon Disulfide	1.944	1.854	1.832	1.693	1.695	1.647	1.778	6.53
18) T	Methyl Acetate	0.606	0.641	0.620	0.651	0.658	0.549	0.621	6.51
19) T	Methyl tert-bu...	1.348	1.394	1.443	1.455	1.503	1.382	1.421	3.98
20) T	Methylene Chlo...	1.101	0.847	0.716	0.609	0.588	0.543	0.734	28.65
21) T	trans-1,2-Dich...	0.609	0.591	0.586	0.557	0.558	0.546	0.575	4.24
22) T	Diisopropyl ether	1.932	1.994	2.002	1.910	1.864	1.776	1.913	4.44
23) T	Vinyl Acetate	1.107	1.173	1.230	1.238	1.241	1.120	1.185	5.12
24) P	1,1-Dichloroet...	1.141	1.073	1.092	1.028	1.030	1.001	1.061	4.82
25) T	2-Butanone	0.239	0.247	0.258	0.278	0.285	0.228	0.256	8.71
26) T	2,2-Dichloropr...	1.006	0.955	0.924	0.859	0.909	0.899	0.925	5.48
27) T	cis-1,2-Dichlo...	0.658	0.646	0.638	0.605	0.622	0.603	0.629	3.56
28) T	Bromochloromet...	0.389	0.451	0.443	0.441	0.424	0.401	0.425	5.88
29) T	Tetrahydrofuran	0.137	0.150	0.162	0.173	0.173	0.142	0.156	10.05
30) C	Chloroform	1.097	1.053	1.044	0.999	0.996	0.978	1.028	4.36#
31) T	Cyclohexane	1.241	1.065	1.034	0.933	0.944	0.939	1.026	11.60
32) T	1,1,1-Trichlor...	1.006	0.936	0.925	0.886	0.916	0.913	0.930	4.35
33) S	1,2-Dichloroet...	0.631	0.605	0.586	0.583	0.582	0.557	0.591	4.22
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.343	0.350	0.338	0.338	0.334	0.324	0.338	2.54
36) T	1,1-Dichloropr...	0.565	0.541	0.541	0.509	0.526	0.530	0.535	3.46
37) T	Ethyl Acetate	0.352	0.347	0.366	0.389	0.386	0.326	0.361	6.71
38) T	Carbon Tetrach...	0.601	0.533	0.551	0.531	0.547	0.557	0.554	4.64
39) T	Methylcyclohexane	0.638	0.578	0.612	0.607	0.631	0.639	0.618	3.81
40) TM	Benzene	1.556	1.529	1.516	1.458	1.465	1.441	1.494	3.06
41) T	Methacrylonitrile	0.169	0.164	0.212	0.167	0.165	0.178	0.176	10.40
42) TM	1,2-Dichloroet...	0.454	0.475	0.462	0.459	0.473	0.457	0.463	1.92
43) T	Isopropyl Acetate	0.549	0.593	0.641	0.664	0.688	0.611	0.624	8.10
44) TM	Trichloroethene	0.403	0.386	0.401	0.371	0.376	0.381	0.386	3.48
45) C	1,2-Dichloropr...	0.389	0.389	0.398	0.380	0.381	0.369	0.384	2.59#
46) T	Dibromomethane	0.207	0.215	0.218	0.216	0.216	0.202	0.212	3.02
47) T	Bromodichlorom...	0.510	0.529	0.511	0.499	0.515	0.500	0.511	2.17
48) T	Methyl methacr...	0.267	0.259	0.296	0.303	0.327	0.295	0.291	8.59
49) T	1,4-Dioxane	0.002	0.002	0.003	0.003	0.003	0.003	0.003	16.95
50) S	Toluene-d8	1.296	1.316	1.261	1.255	1.242	1.222	1.265	2.74
51) T	4-Methyl-2-Pen...	0.290	0.323	0.345	0.371	0.374	0.317	0.337	9.75
52) CM	Toluene	0.890	0.900	0.889	0.876	0.883	0.874	0.885	1.07#
53) T	t-1,3-Dichloro...	0.512	0.528	0.534	0.535	0.555	0.539	0.534	2.62
54) T	cis-1,3-Dichlo...	0.597	0.605	0.602	0.607	0.614	0.599	0.604	1.00
55) T	1,1,2-Trichlor...	0.295	0.297	0.291	0.285	0.288	0.274	0.288	2.90
56) T	Ethyl methacry...	0.328	0.366	0.396	0.425	0.441	0.404	0.394	10.40

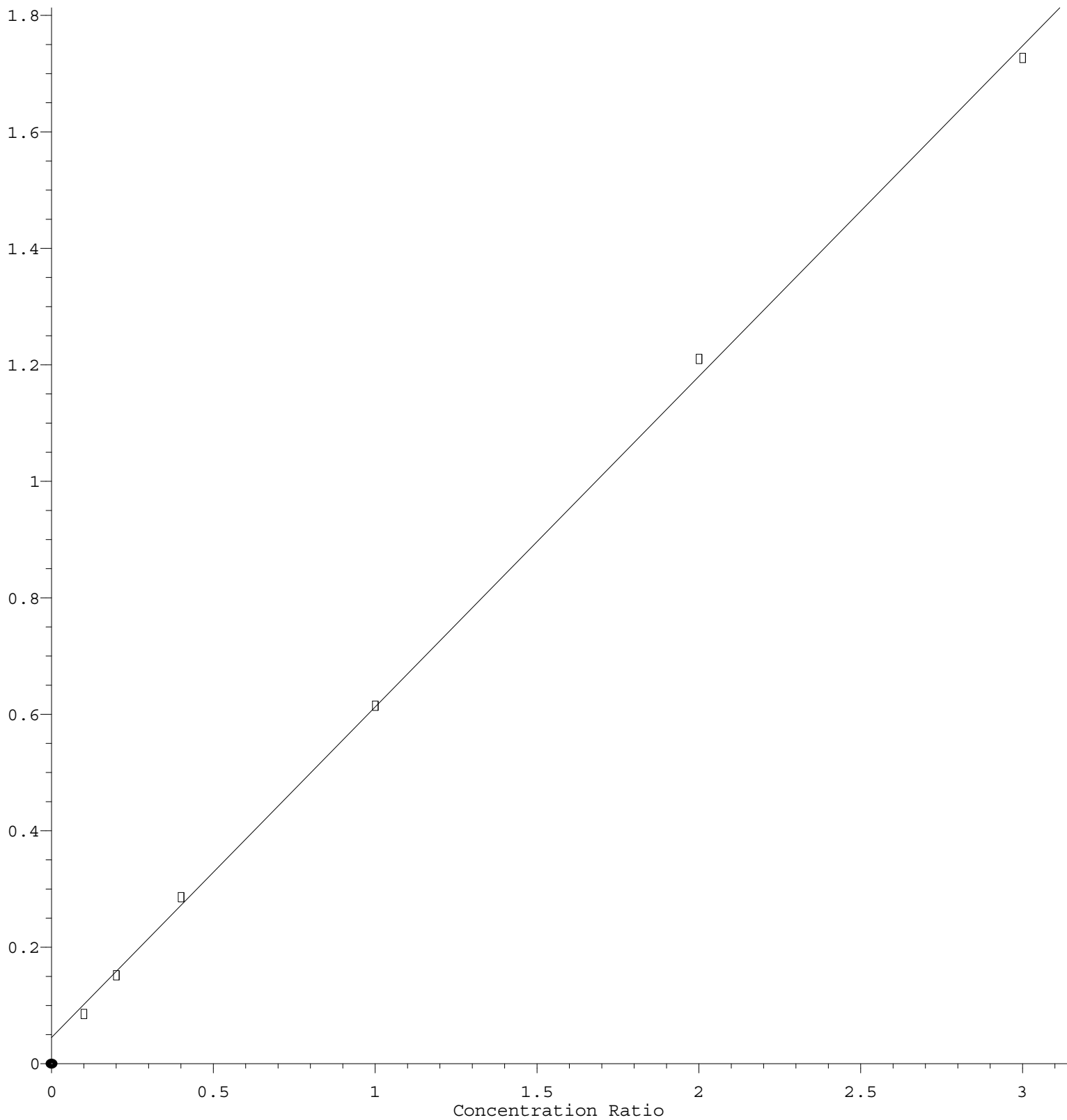
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
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57)	T	1,3-Dichloropr...	0.511	0.511	0.515	0.508	0.511	0.484	0.507	2.23
58)	T	2-Chloroethyl ...	0.137	0.191	0.210	0.220	0.222	0.198	0.196	16.05
59)	T	2-Hexanone	0.198	0.225	0.243	0.270	0.271	0.225	0.239	12.01
60)	T	Dibromochlorom...	0.345	0.352	0.345	0.348	0.358	0.347	0.349	1.47
61)	T	1,2-Dibromoethane	0.264	0.276	0.284	0.279	0.285	0.269	0.276	3.04
62)	S	4-Bromofluorob...	0.415	0.408	0.395	0.404	0.409	0.399	0.405	1.84
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.388	0.362	0.367	0.347	0.357	0.361	0.364	3.79
65)	PM	Chlorobenzene	1.140	1.092	1.072	1.029	1.048	1.051	1.072	3.71
66)	T	1,1,1,2-Tetrac...	0.401	0.405	0.401	0.389	0.394	0.394	0.397	1.52
67)	C	Ethyl Benzene	1.945	1.862	1.918	1.868	1.940	1.967	1.917	2.25#
68)	T	m/p-Xylenes	0.740	0.718	0.742	0.716	0.732	0.739	0.731	1.56
69)	T	o-Xylene	0.675	0.646	0.687	0.678	0.686	0.692	0.677	2.44
70)	T	Styrene	1.076	1.100	1.160	1.139	1.164	1.171	1.135	3.40
71)	P	Bromoform	0.239	0.249	0.252	0.258	0.268	0.256	0.254	3.85
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.704	3.598	3.696	3.610	3.732	3.830	3.695	2.30
74)	T	N-ethyl acetate	1.070	1.133	1.214	1.314	1.340	1.218	1.215	8.49
75)	P	1,1,2,2-Tetrac...	0.826	0.866	0.845	0.837	0.842	0.768	0.831	4.01
76)	T	1,2,3-Trichlor...	0.611	0.657	0.633	0.627	0.636	0.575	0.623	4.46
77)	T	Bromobenzene	0.893	0.900	0.896	0.864	0.878	0.882	0.885	1.50
78)	T	n-propylbenzene	4.822	4.560	4.668	4.472	4.548	4.660	4.622	2.66
79)	T	2-Chlorotoluene	2.681	2.599	2.559	2.472	2.526	2.568	2.568	2.74
80)	T	1,3,5-Trimethy...	3.251	3.004	3.086	2.981	3.086	3.113	3.086	3.09
81)	T	trans-1,4-Dich...	0.262	0.303	0.297	0.305	0.311	0.288	0.294	5.94
82)	T	4-Chlorotoluene	2.772	2.664	2.674	2.554	2.640	2.673	2.663	2.63
83)	T	tert-Butylbenzene	2.678	2.525	2.628	2.592	2.671	2.719	2.636	2.64
84)	T	1,2,4-Trimethy...	3.025	2.947	3.074	2.966	3.029	3.062	3.017	1.70
85)	T	sec-Butylbenzene	4.235	3.896	4.037	3.865	3.984	4.044	4.010	3.29
86)	T	p-Isopropyltol...	3.332	3.223	3.377	3.205	3.298	3.380	3.303	2.28
87)	T	1,3-Dichlorobe...	1.892	1.748	1.727	1.667	1.685	1.686	1.734	4.78
88)	T	1,4-Dichlorobe...	2.018	1.772	1.754	1.662	1.676	1.668	1.758	7.71
89)	T	n-Butylbenzene	3.322	3.060	3.146	3.065	3.155	3.229	3.163	3.16
90)	T	Hexachloroethane	0.754	0.663	0.663	0.624	0.647	0.670	0.670	6.60
91)	T	1,2-Dichlorobe...	1.681	1.550	1.544	1.499	1.521	1.498	1.549	4.41
92)	T	1,2-Dibromo-3-...	0.126	0.136	0.137	0.140	0.149	0.132	0.137	5.84
93)	T	1,2,4-Trichlor...	1.054	0.938	0.948	0.945	0.990	1.001	0.979	4.56
94)	T	Hexachlorobuta...	0.695	0.578	0.587	0.544	0.564	0.579	0.591	8.96
95)	T	Naphthalene	1.784	1.773	1.919	2.090	2.214	2.095	1.979	9.18
96)	T	1,2,3-Trichlor...	0.911	0.823	0.867	0.840	0.884	0.877	0.867	3.67

(#) = Out of Range

Chloromethane

Response Ratio



$$\text{Response} = 5.676\text{e-}001 * \text{Amt} + 4.529\text{e-}002$$

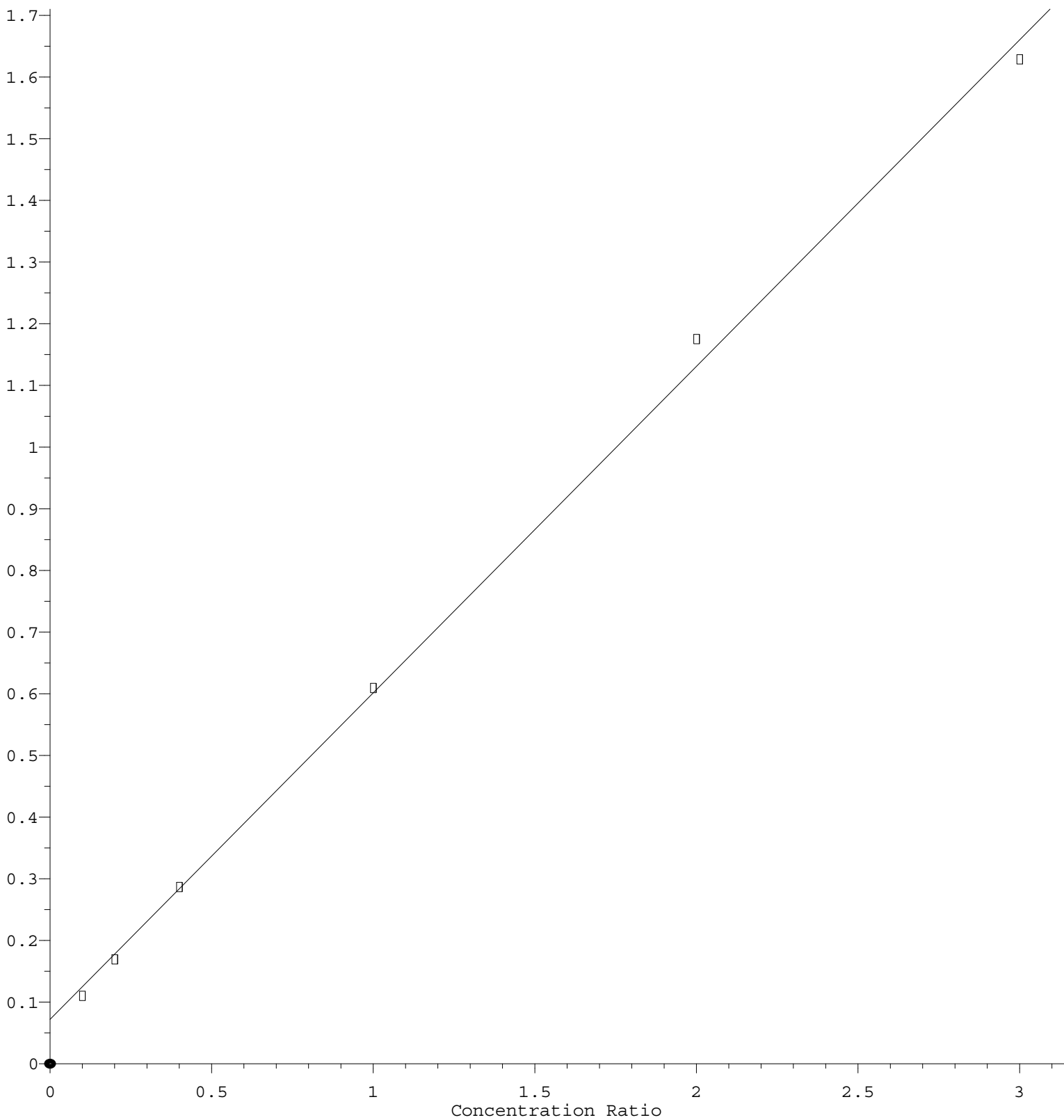
Coef of Det (r^2) = 0.999155 Curve Fit: Linear

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Methylene Chloride

Response Ratio



$$\text{Response} = 5.293\text{e-}001 * \text{Amt} + 7.208\text{e-}002$$

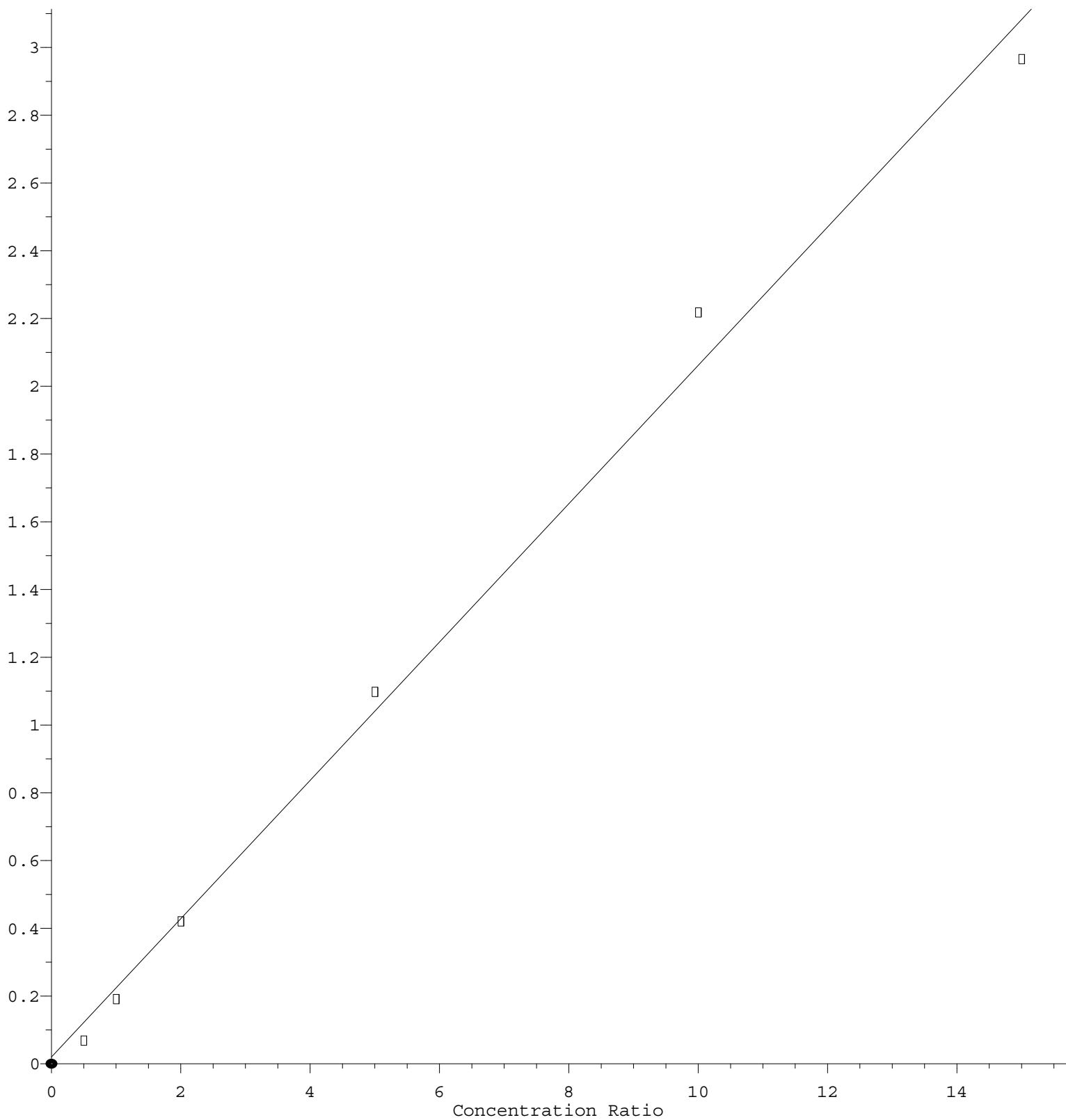
Coef of Det (r^2) = 0.998241 Curve Fit: Linear

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2-Chloroethyl Vinyl ether

Response Ratio



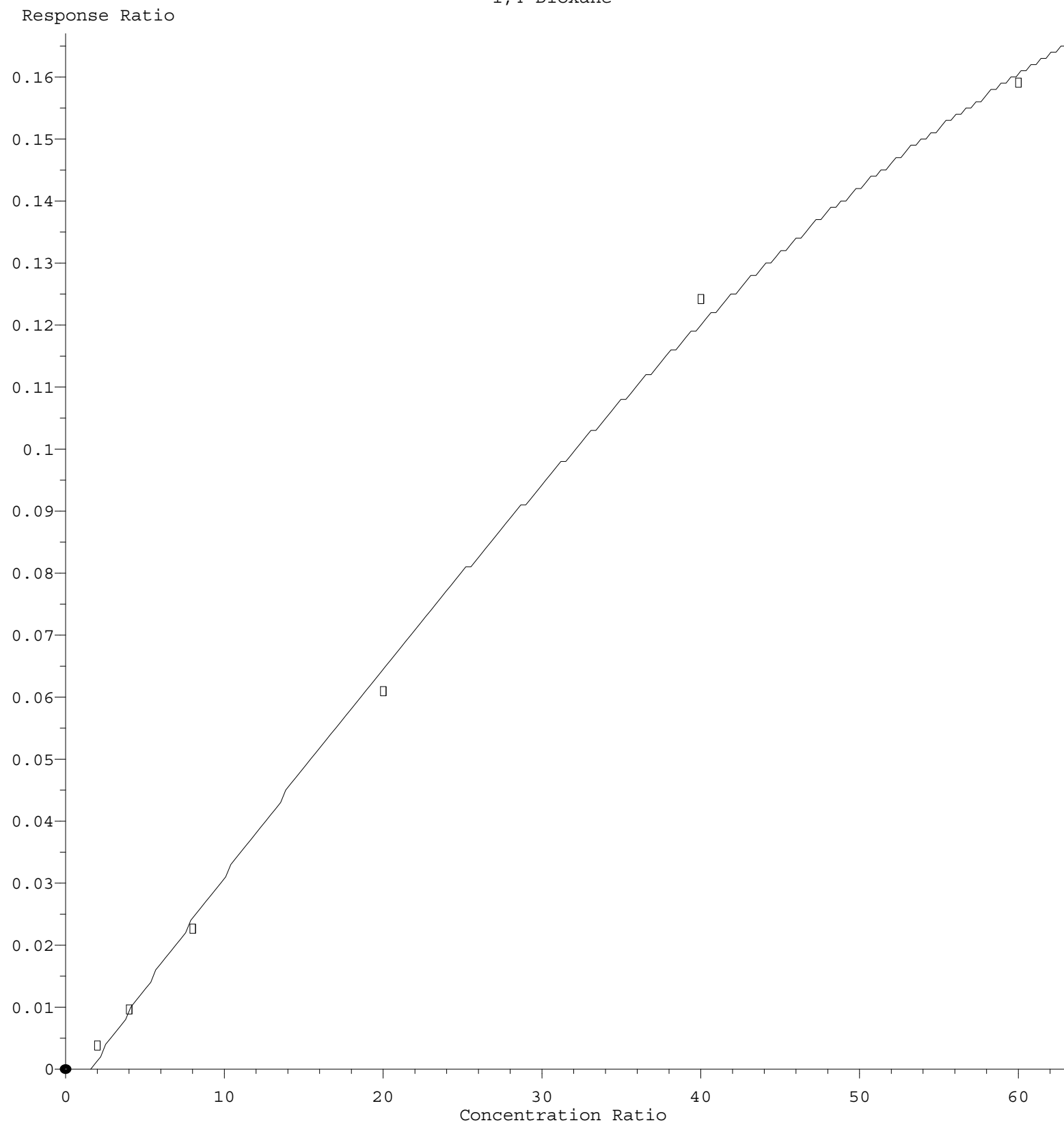
$$\text{Response} = 2.042\text{e-}001 * \text{Amt} + 1.989\text{e-}002$$

Coef of Det (r^2) = 0.993571 Curve Fit: Linear

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1,4-Dioxane



$R = -1.900e-005 A^2 + 3.915e-003 A - 6.053e-003$
 Coef of Det (r^2) = 0.998176 Curve Fit: Quadratic
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