

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
 Method File : 524U013124DW.M
 Title : METHOD 524.2 VOLATILES DRINKING WATER
 Last Update : Thu Feb 01 16:23:36 2024
 Response Via : Initial Calibration

Calibration Files

0.5 =VU057758.D 1 =VU057759.D 2 =VU057765.D 5 =VU057761.D 10 =VU057762.D 15 =VU057763.D

Compound		0.5	1	2	5	10	15	Avg	%RSD

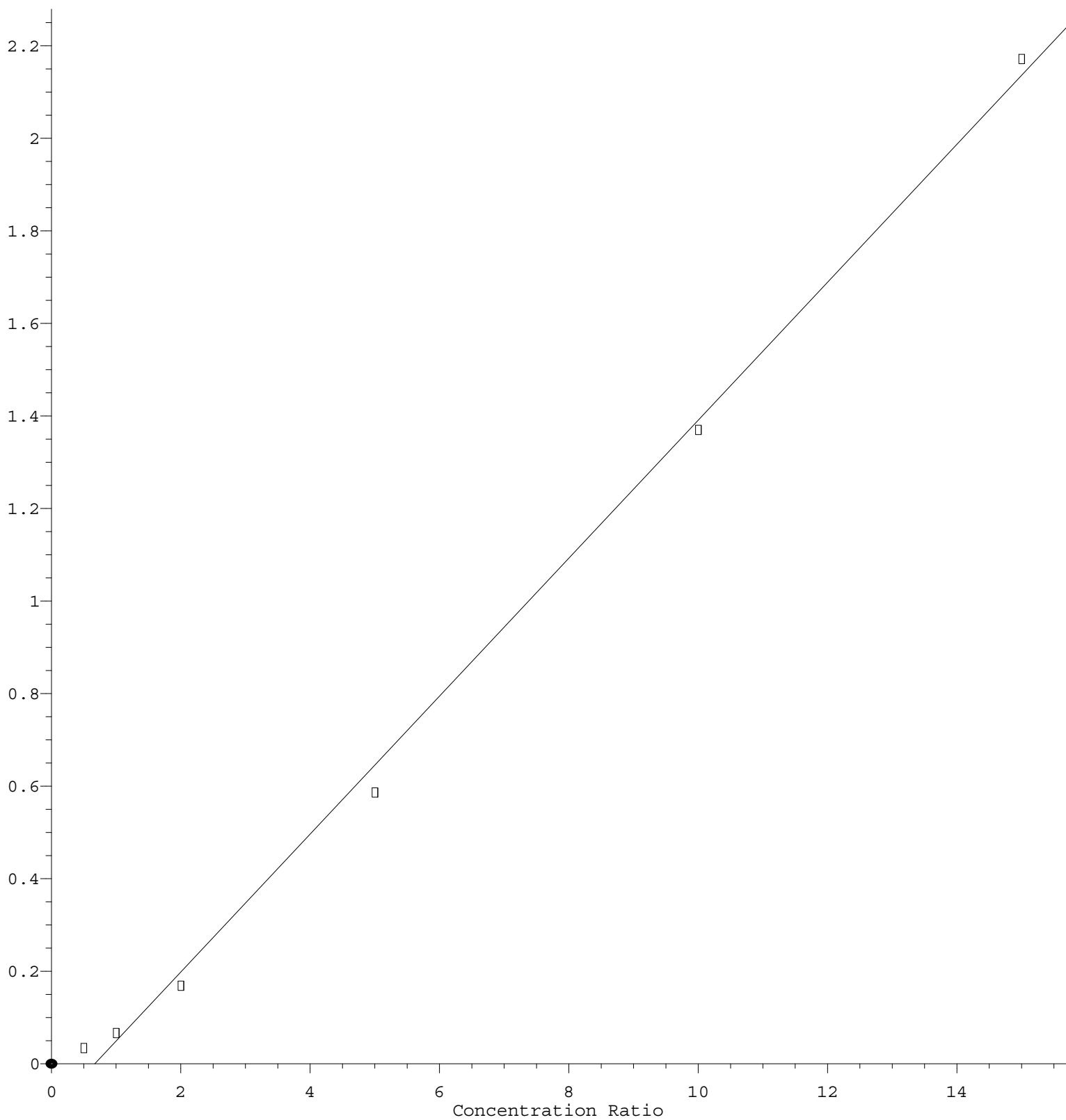
1) i	Fluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.358	0.293	0.314	0.349	0.346	0.338	0.333	7.38
3) t	Chloromethane	0.368	0.273	0.315	0.331	0.316	0.314	0.320	9.65
4) Rt	Vinyl Chloride	0.350	0.271	0.319	0.340	0.342	0.335	0.326	8.89
5) T	Bromomethane	0.214	0.174	0.188	0.199	0.184	0.202	0.193	7.39
6) T	Chloroethane	0.227	0.186	0.199	0.209	0.209	0.205	0.206	6.44
7) T	Trichlorofluor...	0.520	0.412	0.480	0.512	0.535	0.534	0.499	9.45
8)	1,1,2-Trichlor...	0.277	0.224	0.246	0.266	0.264	0.263	0.256	7.34
9) Rt	1,1-Dichloroet...	0.259	0.216	0.244	0.258	0.260	0.254	0.249	6.79
10) t	Iodomethane	0.280	0.231	0.262	0.313	0.333	0.335	0.292	14.26
11) t	Allyl Chloride	0.360	0.282	0.308	0.354	0.361	0.358	0.337	10.01
12) t	Acrylonitrile	0.036	0.037	0.036	0.048	0.049	0.050	0.042	16.28
13) T	Acetone	0.075	0.057	0.078	0.083	0.087	0.080	0.077	13.86
14) T	Carbon Disulfide	0.855	0.674	0.763	0.828	0.832	0.820	0.795	8.42
15) RT	Methylene Chlo...	0.366	0.262	0.279	0.301	0.291	0.282	0.297	12.23
16) RT	trans-1,2-Dich...	0.282	0.225	0.258	0.291	0.291	0.282	0.271	9.54
17) t	1,1-Dichloroet...	0.539	0.432	0.486	0.539	0.538	0.539	0.512	8.66
18) T	2-Butanone	0.074	0.066	0.080	0.090	0.094	0.092	0.083	13.52
19)	Cyclohexane	0.442	0.343	0.384	0.414	0.419	0.407	0.401	8.53
20)	Methylcyclohexane	0.473	0.414	0.479	0.504	0.524	0.516	0.485	8.27
21) T	2,2-Dichloropr...	0.491	0.369	0.414	0.479	0.493	0.483	0.455	11.25
22) RT	cis-1,2-Dichlo...	0.324	0.244	0.290	0.304	0.314	0.307	0.297	9.55
23) t	Diethyl Ether	0.192	0.155	0.165	0.189	0.190	0.186	0.179	8.79
24) t	tert-Butyl Alc...	0.020	0.018	0.020	0.022	0.021	0.021	0.020	6.96
25) t	Methyl tert-Bu...	0.599	0.477	0.562	0.624	0.623	0.614	0.583	9.73
26) t	Bromochloromet...	0.124	0.101	0.114	0.128	0.125	0.123	0.119	8.34
27) t	Chloroform	0.542	0.469	0.516	0.557	0.562	0.549	0.533	6.57
28) RT	1,1,1-Trichlor...	0.497	0.396	0.466	0.505	0.514	0.508	0.481	9.37
29) T	1,1-Dichloropr...	0.418	0.333	0.348	0.403	0.416	0.417	0.389	9.82
30) RT	Carbon Tetrach...	0.414	0.348	0.400	0.439	0.446	0.440	0.414	8.93
31) t	Isopropyl Ether	0.753	0.644	0.695	0.806	0.800	0.801	0.750	8.94
32)	Ethyl-t-butyl ...	0.697	0.573	0.635	0.749	0.771	0.752	0.696	11.21
33)	Tert-Amyl meth...	0.570	0.491	0.537	0.614	0.651	0.652	0.586	11.12
34) t	Propionitrile	0.014	0.014	0.016	0.020	0.019	0.021	0.017	19.08
35) RT	Benzene	1.148	0.953	1.096	1.175	1.186	1.162	1.120	7.83
36) RT	1,2-Dichloroet...	0.332	0.276	0.317	0.350	0.343	0.340	0.326	8.25
37) RT	Trichloroethene	0.313	0.259	0.285	0.305	0.314	0.309	0.297	7.27
38) Rt	1,2-Dichloropr...	0.295	0.245	0.287	0.307	0.306	0.302	0.290	8.01
39) t	Methacrylonitrile	0.066	0.054	0.062	0.075	0.076	0.076	0.068	13.53
40) t	Methyl acrylate	0.068	0.066	0.084	0.117	0.137	0.145	0.103	33.72
41) t	Tetrahydrofuran	0.038	0.030	0.033	0.040	0.040	0.039	0.036	10.95
42) t	1-Chlorobutane	0.548	0.429	0.453	0.545	0.555	0.547	0.513	10.96
43) T	Dibromomethane	0.139	0.115	0.120	0.144	0.143	0.142	0.134	9.63
44) T	Bromodichlorom...	0.384	0.315	0.364	0.389	0.399	0.394	0.374	8.44
45) T	4-Methyl-2-Pen...	0.133	0.111	0.137	0.153	0.162	0.159	0.142	13.74
46) t	t-1,4-Dichloro...	0.028	0.021	0.032	0.033	0.042	0.038	0.032	22.32
47) t	Methyl methacr...	0.110	0.097	0.107	0.132	0.132	0.131	0.118	12.93
48) t	Ethyl methacry...	0.221	0.190	0.208	0.258	0.271	0.270	0.236	14.59
49) Rt	Toluene	0.691	0.573	0.658	0.724	0.734	0.726	0.684	8.98
50) T	t-1,3-Dichloro...	0.301	0.255	0.310	0.346	0.362	0.362	0.323	12.99
51) T	cis-1,3-Dichlo...	0.401	0.333	0.393	0.438	0.446	0.442	0.409	10.57
52) RT	1,1,2-Trichlor...	0.182	0.154	0.184	0.195	0.197	0.193	0.184	8.73
53) t	1,3-Dichloropr...	0.343	0.288	0.303	0.357	0.347	0.347	0.331	8.50
54) t	2-Hexanone	0.129	0.096	0.128	0.140	0.149	0.144	0.131	14.35
55) t	Dibromochlorom...	0.232	0.186	0.217	0.238	0.248	0.246	0.228	10.15
56) T	1,2-Dibromoethane	0.157	0.139	0.167	0.183	0.186	0.184	0.169	11.09
57) S	4-Bromofluorob...	0.353	0.380	0.354	0.378	0.411	0.395	0.379	5.98

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58)	RT	Tetrachloroethene	0.278	0.228	0.254	0.273	0.273	0.267	0.262	7.13
59)	Rt	Chlorobenzene	0.756	0.617	0.736	0.791	0.828	0.812	0.757	10.10
60)	T	1,1,1,2-Tetrac...	0.262	0.215	0.229	0.273	0.282	0.279	0.257	10.92
61)	t	Pentachloroethane	0.168	0.148	0.159	0.195	0.224	0.226	0.187	17.96
62)	t	Hexachloroethane	0.186	0.155	0.171	0.208	0.249	0.253	0.204	20.02
63)	Rt	Ethyl Benzene	1.313	1.090	1.296	1.431	1.490	1.453	1.345	10.95
64)	RT	m/p-Xylenes	0.456	0.405	0.460	0.514	0.554	0.542	0.489	11.79
65)	RT	o-Xylene	0.456	0.392	0.457	0.508	0.549	0.540	0.484	12.34
66)	RT	Styrene	0.643	0.537	0.672	0.765	0.860	0.855	0.722	17.70
67)	t	Bromoform	0.106	0.088	0.112	0.124	0.136	0.138	0.117	16.34
68)	S	1,2-Dichlorobe...	0.317	0.328	0.317	0.345	0.372	0.367	0.341	7.17
69)	T	Isopropylbenzene	1.203	0.993	1.164	1.345	1.458	1.445	1.268	14.28
70)	T	1,1,2,2-Tetrac...	0.220	0.198	0.216	0.240	0.254	0.256	0.231	9.95
71)	T	1,2,3-Trichlor...	0.187	0.160	0.179	0.190	0.200	0.227	0.190	11.66
72)	t	Bromobenzene	0.273	0.230	0.255	0.283	0.319	0.314	0.279	12.31
73)	t	n-propylbenzene	0.307	0.242	0.277	0.332	0.378	0.377	0.319	17.08
74)	t	2-Chlorotoluene	0.284	0.234	0.264	0.313	0.342	0.337	0.296	14.41
75)	t	1,3,5-Trimethy...	1.031	0.873	1.026	1.141	1.244	1.220	1.089	12.86
76)	t	4-Chlorotoluene	0.285	0.240	0.264	0.307	0.344	0.342	0.297	14.14
77)	t	tert-Butylbenzene	0.996	0.841	0.897	1.043	1.182	1.175	1.022	13.74
78)	t	1,2,4-Trimethy...	1.041	0.877	1.032	1.163	1.267	1.249	1.105	13.53
79)	t	sec-Butylbenzene	1.323	1.078	1.172	1.288	1.487	1.491	1.306	12.71
80)		Nitrobenzene	0.003	0.003	0.004	0.005	0.006	0.006	0.005	27.40
81)	t	p-Isopropyltol...	1.049	0.876	0.991	1.137	1.289	1.267	1.102	14.62
82)	t	1,3-Dichlorobe...	0.565	0.463	0.523	0.572	0.632	0.630	0.564	11.45
83)	Rt	1,4-Dichlorobe...	0.560	0.458	0.506	0.547	0.617	0.616	0.551	11.26
84)	t	n-Butylbenzene	0.969	0.792	0.972	1.083	1.257	1.248	1.053	17.09
85)	Rt	1,2-Dichlorobe...	0.516	0.410	0.483	0.519	0.569	0.573	0.512	11.78
86)	t	1,2-Dibromo-3-...	0.022	0.025	0.031	0.035	0.037	0.039	0.032	20.97
87)	Rt	1,2,4-Trichlor...	0.265	0.236	0.298	0.315	0.360	0.361	0.306	16.47
88)	t	Hexachlorobuta...	0.206	0.162	0.177	0.198	0.217	0.218	0.196	11.51
89)	t	Naphthalene	0.399	0.338	0.481	0.448	0.539	0.555	0.460	18.06
90)	t	1,2,3-Trichlor...	0.254	0.194	0.252	0.248	0.289	0.290	0.254	13.85

(#) = Out of Range

Methyl acrylate

Response Ratio



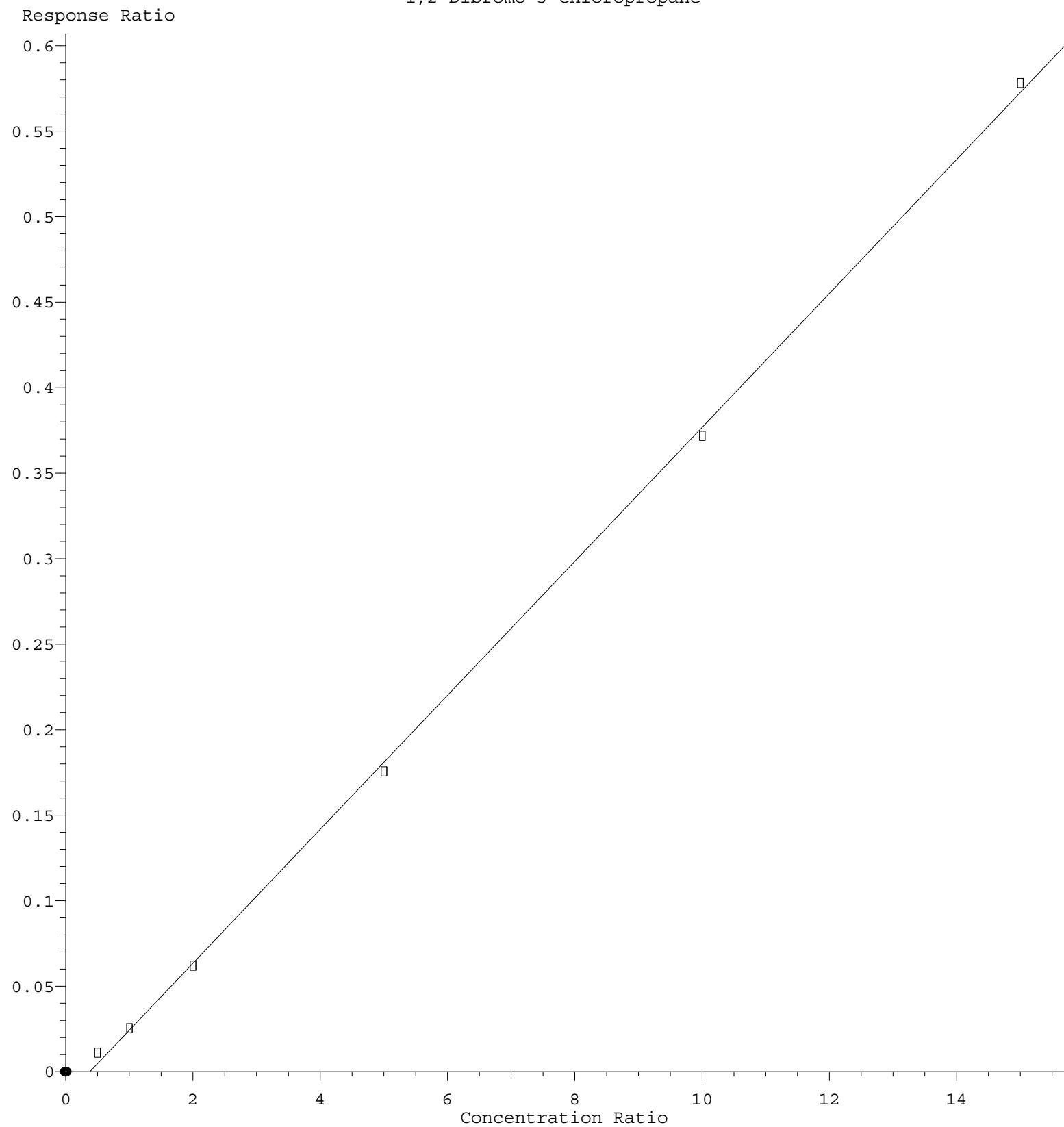
$$\text{Response} = 1.491\text{e-}001 * \text{Amt} - 9.959\text{e-}002$$

Coef of Det (r^2) = 0.997360 Curve Fit: Linear

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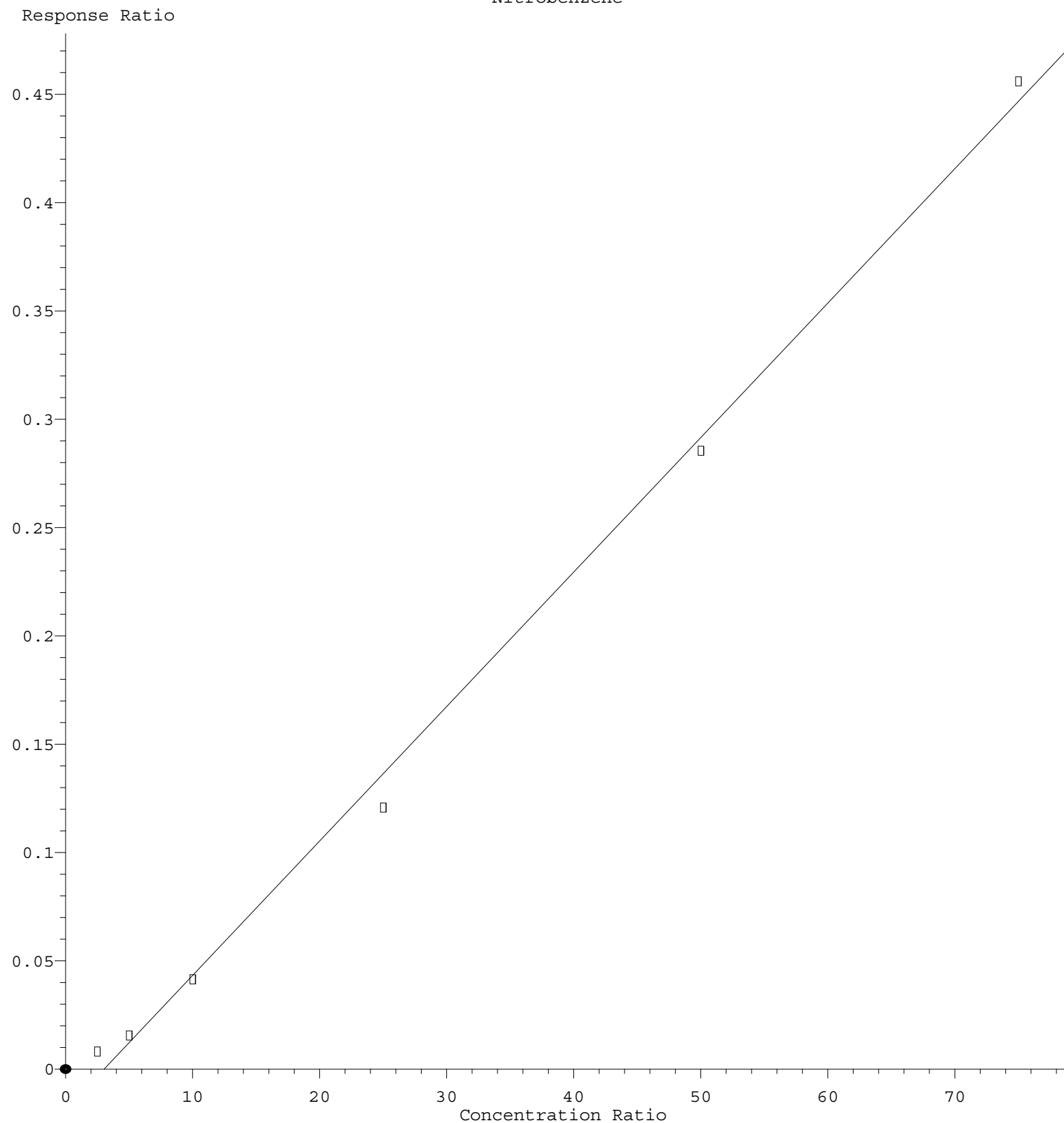
Calibration Table Last Updated: Fri Feb 02 00:27:55 2024

1,2-Dibromo-3-Chloropropane



Response = $3.917 \times 10^{-2} \times \text{Amt} - 1.470 \times 10^{-2}$
Coef of Det (r^2) = 0.999503 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U013124DW.M
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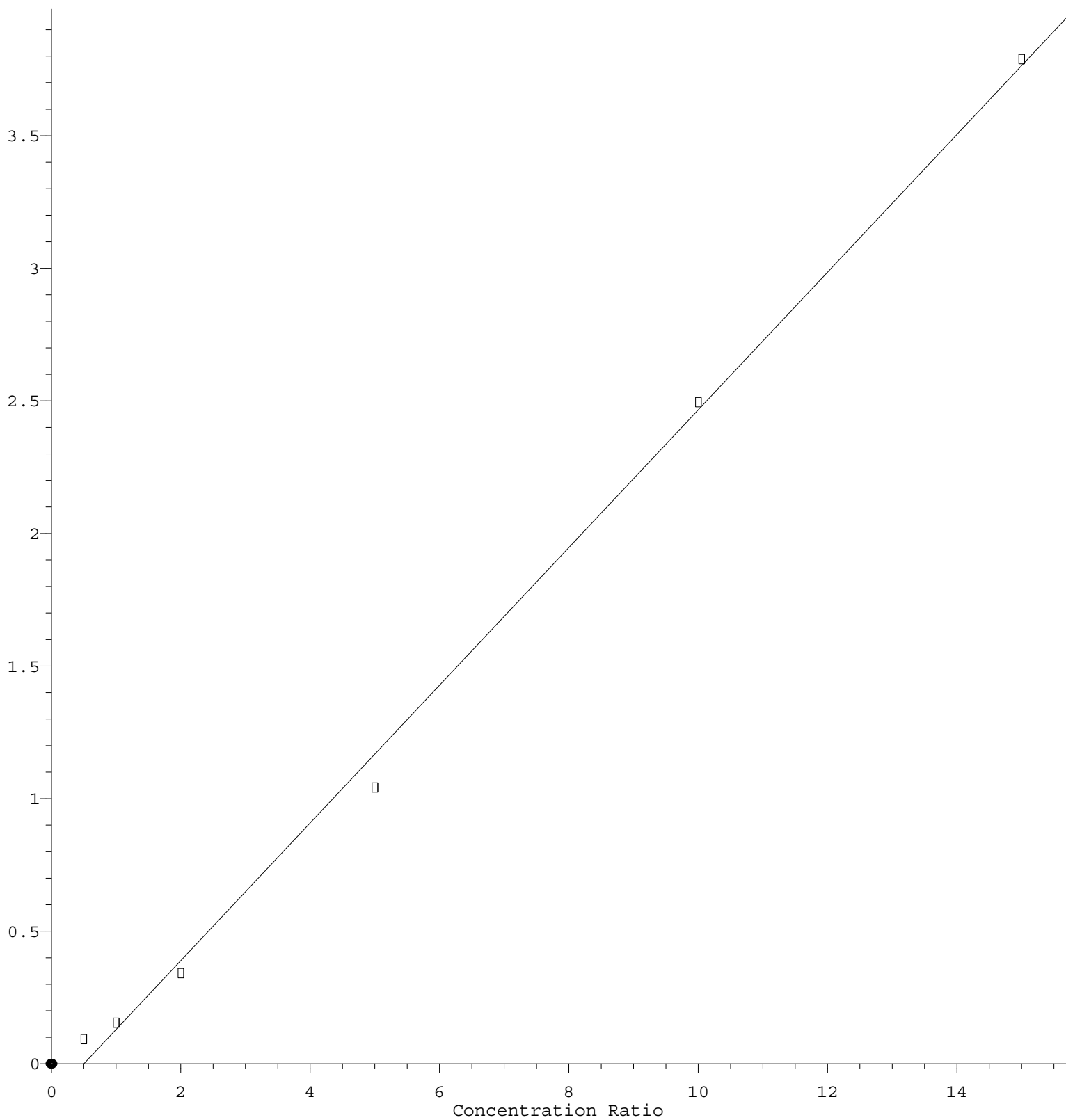
Nitrobenzene



Response = $6.210 \times 10^{-3} \times \text{Amt} - 1.881 \times 10^{-2}$
 Coef of Det (r^2) = 0.996851 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U013124DW.M
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Hexachloroethane

Response Ratio



$$\text{Response} = 2.597\text{e-}001 * \text{Amt} - 1.308\text{e-}001$$

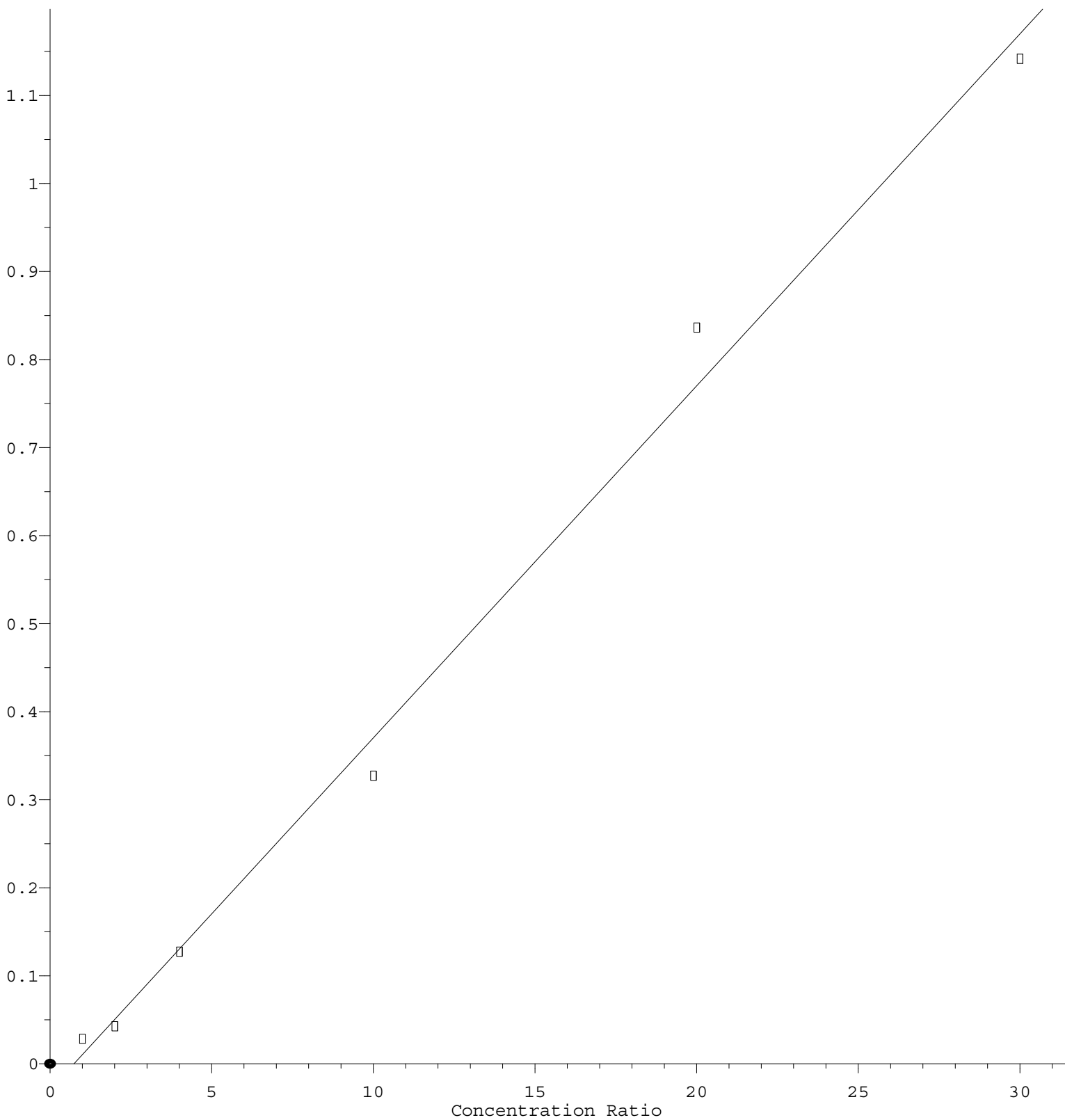
Coef of Det (r^2) = 0.997460 Curve Fit: Linear

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t-1,4-Dichloro-2-butene

Response Ratio



$$\text{Response} = 4.000\text{e-}002 * \text{Amt} - 2.945\text{e-}002$$

Coef of Det (r^2) = 0.993157 Curve Fit: Linear

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