

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
 Method File : 524U012323DW.M
 Title : METHOD 524.2 VOLATILES DRINKING WATER
 Last Update : Tue Jan 24 05:16:59 2023
 Response Via : Initial Calibration

Calibration Files

0.5 =VU052778.D 1 =VU052772.D 2 =VU052773.D 5 =VU052774.D 10 =VU052775.D 15 =VU052776.D

Compound		0.5	1	2	5	10	15	Avg	%RSD

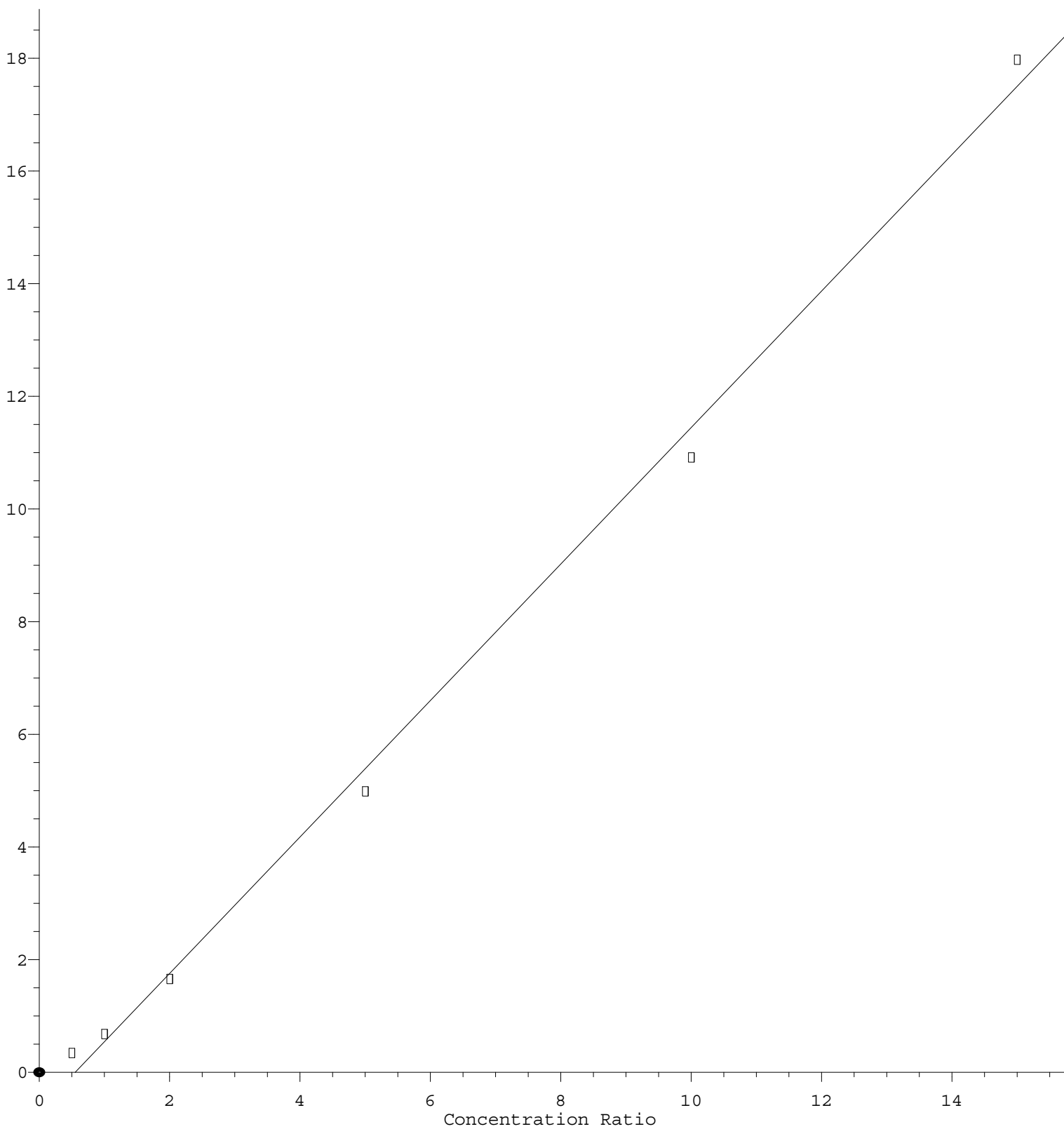
1) i	Fluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.342	0.295	0.341	0.346	0.348	0.359	0.338	6.59
3) t	Chloromethane	0.364	0.305	0.324	0.315	0.309	0.311	0.321	6.82
4) Rt	Vinyl Chloride	0.310	0.283	0.312	0.319	0.315	0.322	0.310	4.57
5) T	Bromomethane	0.175	0.143	0.150	0.159	0.169	0.171	0.161	7.88
6) T	Chloroethane	0.220	0.154	0.178	0.188	0.187	0.192	0.187	11.53
7) T	Trichlorofluor...	0.472	0.400	0.448	0.463	0.457	0.470	0.452	5.90
8)	1,1,2-Trichlor...	0.262	0.216	0.251	0.248	0.249	0.256	0.247	6.54
9) Rt	1,1-Dichloroet...	0.254	0.199	0.229	0.237	0.237	0.244	0.233	8.06
10) t	Iodomethane		0.202	0.227	0.275	0.293	0.295	0.258	16.19
11) t	Allyl Chloride	0.282	0.242	0.277	0.286	0.286	0.299	0.279	6.97
12) t	Acrylonitrile	0.050	0.043	0.049	0.051	0.053	0.051	0.049	7.11
13) T	Acetone	0.076	0.063	0.059	0.076	0.066	0.081	0.070	12.42
14) T	Carbon Disulfide	0.835	0.711	0.770	0.784	0.785	0.804	0.782	5.28
15) RT	Methylene Chlo...	0.383	0.264	0.266	0.264	0.257	0.257	0.282	17.71
16) RT	trans-1,2-Dich...	0.285	0.225	0.254	0.265	0.261	0.267	0.260	7.63
17) t	1,1-Dichloroet...	0.476	0.386	0.435	0.442	0.440	0.451	0.438	6.73
18) T	2-Butanone	0.089	0.071	0.072	0.088	0.080	0.090	0.082	10.82
19)	Cyclohexane	0.404	0.352	0.380	0.390	0.383	0.404	0.386	5.05
20)	Methylcyclohexane	0.384	0.361	0.414	0.444	0.474	0.503	0.430	12.55
21) T	2,2-Dichloropr...	0.455	0.366	0.393	0.406	0.403	0.419	0.407	7.24
22) RT	cis-1,2-Dichlo...	0.298	0.238	0.268	0.271	0.271	0.282	0.271	7.24
23) t	Diethyl Ether	0.170	0.147	0.163	0.163	0.172	0.174	0.165	6.08
24) t	tert-Butyl Alc...		0.018	0.020	0.021	0.020	0.020	0.020	5.60
25) t	Methyl tert-Bu...	0.546	0.475	0.530	0.548	0.549	0.563	0.535	5.82
26) t	Bromochloromet...	0.141	0.116	0.131	0.124	0.124	0.124	0.127	6.63
27) t	Chloroform	0.513	0.423	0.467	0.468	0.471	0.478	0.470	6.07
28) RT	1,1,1-Trichlor...	0.468	0.376	0.427	0.441	0.439	0.452	0.434	7.27
29) T	1,1-Dichloropr...	0.372	0.321	0.374	0.370	0.374	0.384	0.366	6.21
30) RT	Carbon Tetrach...	0.405	0.342	0.386	0.400	0.407	0.423	0.394	7.13
31) t	Isopropyl Ether	0.708	0.554	0.604	0.633	0.633	0.649	0.630	8.06
32)	Ethyl-t-butyl ...	0.608	0.510	0.584	0.603	0.607	0.620	0.588	6.83
33)	Tert-Amyl meth...	0.496	0.444	0.517	0.533	0.554	0.577	0.520	9.03
34) t	Propionitrile	0.019	0.016	0.018	0.020	0.019	0.019	0.019	6.99
35) RT	Benzene	1.091	0.929	1.055	1.085	1.091	1.119	1.062	6.42
36) RT	1,2-Dichloroet...	0.337	0.281	0.324	0.322	0.322	0.327	0.319	6.16
37) RT	Trichloroethene	0.307	0.244	0.286	0.295	0.299	0.306	0.289	8.18
38) Rt	1,2-Dichloropr...	0.258	0.241	0.267	0.285	0.280	0.285	0.269	6.56
39) t	Methacrylonitrile	0.076	0.069	0.072	0.078	0.077	0.075	0.075	4.71
40) t	Methyl acrylate	0.146	0.111	0.124	0.127	0.143	0.142	0.132	10.48
41) t	Tetrahydrofuran	0.041	0.034	0.036	0.039	0.036	0.037	0.037	6.60
42) t	1-Chlorobutane	0.507	0.403	0.466	0.468	0.471	0.491	0.468	7.62
43) T	Dibromomethane	0.150	0.115	0.133	0.139	0.137	0.143	0.136	8.83
44) T	Bromodichlorom...	0.400	0.323	0.355	0.381	0.374	0.386	0.370	7.34
45) T	4-Methyl-2-Pen...	0.130	0.118	0.134	0.153	0.160	0.164	0.143	12.87
46) t	t-1,4-Dichloro...	0.069	0.065	0.074	0.085	0.076	0.081	0.075	9.79
47) t	Methyl methacr...	0.109	0.099	0.113	0.129	0.138	0.139	0.121	13.66
48) t	Ethyl methacry...	0.186	0.168	0.206	0.240	0.256	0.263	0.220	17.75
49) Rt	Toluene	0.587	0.549	0.627	0.690	0.692	0.723	0.645	10.58
50) T	t-1,3-Dichloro...	0.299	0.278	0.313	0.335	0.350	0.360	0.323	9.75
51) T	cis-1,3-Dichlo...	0.370	0.323	0.369	0.390	0.401	0.423	0.379	8.98
52) RT	1,1,2-Trichlor...	0.199	0.171	0.191	0.202	0.202	0.199	0.194	6.28
53) t	1,3-Dichloropr...	0.334	0.297	0.326	0.345	0.352	0.358	0.335	6.60
54) t	2-Hexanone	0.106	0.098	0.111	0.142	0.138	0.157	0.125	18.73
55) t	Dibromochlorom...	0.273	0.217	0.244	0.262	0.261	0.265	0.254	7.95
56) T	1,2-Dibromoethane	0.197	0.163	0.173	0.189	0.192	0.194	0.185	7.34
57) S	4-Bromofluorob...	0.285	0.318	0.325	0.346	0.353	0.369	0.333	9.01

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58)	RT	Tetrachloroethene	0.265	0.231	0.255	0.268	0.269	0.279	0.261	6.36
59)	Rt	Chlorobenzene	0.677	0.591	0.688	0.727	0.743	0.783	0.701	9.45
60)	T	1,1,1,2-Tetrac...	0.280	0.239	0.265	0.280	0.279	0.286	0.271	6.41
61)	t	Pentachloroethane	0.227	0.198	0.219	0.229	0.230	0.232	0.222	5.77
62)	t	Hexachloroethane	0.206	0.193	0.222	0.235	0.240	0.253	0.225	9.85
63)	Rt	Ethyl Benzene	0.955	0.895	1.086	1.219	1.292	1.371	1.136	16.69
64)	RT	m/p-Xylenes	0.363	0.354	0.422	0.506	0.526	0.548	0.453	18.75
65)	RT	o-Xylene	0.369	0.338	0.425	0.466	0.497	0.528	0.437	16.88
66)	RT	Styrene	0.541	0.524	0.658	0.783	0.823	0.867	0.699	21.00
67)	t	Bromoform	0.152	0.132	0.150	0.154	0.151	0.158	0.150	6.07
68)	S	1,2-Dichlorobe...	0.306	0.321	0.343	0.348	0.370	0.365	0.342	7.29
69)	T	Isopropylbenzene	0.903	0.850	1.050	1.214	1.290	1.367	1.112	18.98
70)	T	1,1,2,2-Tetrac...	0.246	0.204	0.231	0.257	0.254	0.258	0.242	8.68
71)	T	1,2,3-Trichlor...	0.224	0.170	0.197	0.220	0.221	0.224	0.209	10.48
72)	t	Bromobenzene	0.273	0.235	0.279	0.292	0.301	0.315	0.283	9.86
73)	t	n-propylbenzene	0.232	0.234	0.287	0.348	0.364	0.387	0.309	21.82
74)	t	2-Chlorotoluene	0.242	0.229	0.263	0.307	0.315	0.331	0.281	14.94
75)	t	1,3,5-Trimethy...	0.714	0.719	0.894	1.054	1.122	1.173	0.946	21.24
76)	t	4-Chlorotoluene	0.239	0.222	0.280	0.316	0.329	0.345	0.288	17.33
77)	t	tert-Butylbenzene	0.776	0.759	0.926	1.047	1.110	1.187	0.967	18.31
78)	t	1,2,4-Trimethy...	0.707	0.700	0.897	1.078	1.135	1.207	0.954	23.00
79)	t	sec-Butylbenzene	0.941	0.941	1.197	1.375	1.459	1.547	1.243	20.99
80)		Nitrobenzene	0.018	0.014	0.013	0.014	0.015	0.015	0.015	10.20
81)	t	p-Isopropyltol...	0.732	0.757	0.996	1.183	1.262	1.348	1.046	24.94
82)	t	1,3-Dichlorobe...	0.536	0.459	0.565	0.617	0.625	0.659	0.577	12.60
83)	Rt	1,4-Dichlorobe...	0.544	0.458	0.552	0.622	0.639	0.659	0.579	13.04
84)	t	n-Butylbenzene	0.686	0.678	0.829	0.997	1.091	1.198	0.913	23.68
85)	Rt	1,2-Dichlorobe...	0.504	0.435	0.540	0.573	0.595	0.618	0.544	12.27
86)	t	1,2-Dibromo-3-...	0.049	0.037	0.043	0.046	0.046	0.047	0.045	8.99
87)	Rt	1,2,4-Trichlor...	0.290	0.251	0.296	0.339	0.377	0.406	0.326	17.86
88)	t	Hexachlorobuta...	0.225	0.187	0.221	0.236	0.244	0.259	0.229	10.72
89)	t	Naphthalene		0.586	0.568	0.601	0.682	0.728	0.633	10.83
90)	t	1,2,3-Trichlor...	0.273	0.240	0.279	0.327	0.356	0.383	0.310	17.65

(#) = Out of Range

n-Butylbenzene

Response Ratio



$$\text{Response} = 1.211\text{e}+000 * \text{Amt} - 6.710\text{e}-001$$

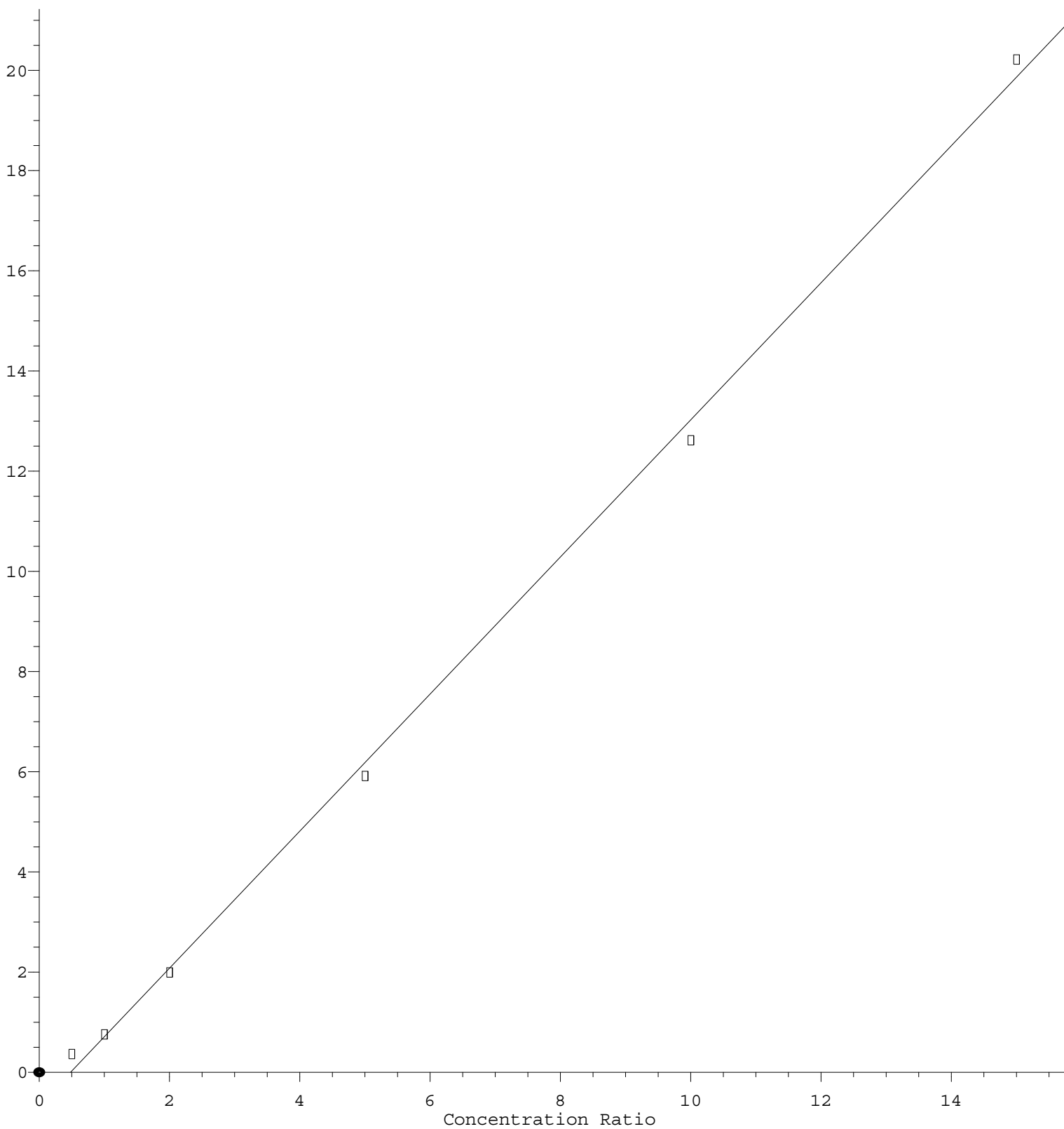
Coef of Det (r^2) = 0.996535 Curve Fit: Linear

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p-Isopropyltoluene

Response Ratio



$$\text{Response} = 1.368\text{e}+000 * \text{Amt} - 6.630\text{e}-001$$

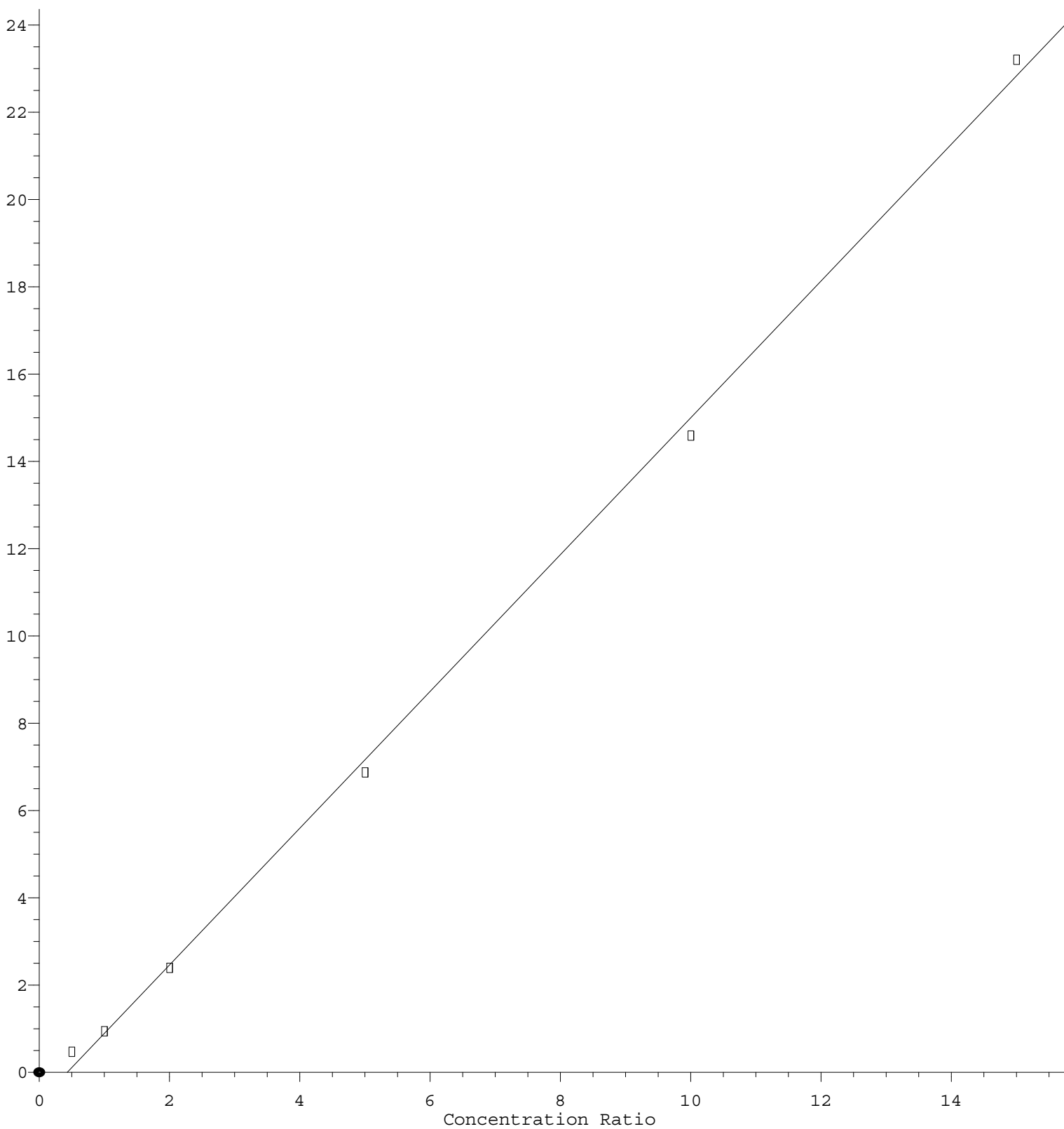
Coef of Det (r^2) = 0.998453 Curve Fit: Linear

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sec-Butylbenzene

Response Ratio



$$\text{Response} = 1.567\text{e}+000 * \text{Amt} - 6.725\text{e}-001$$

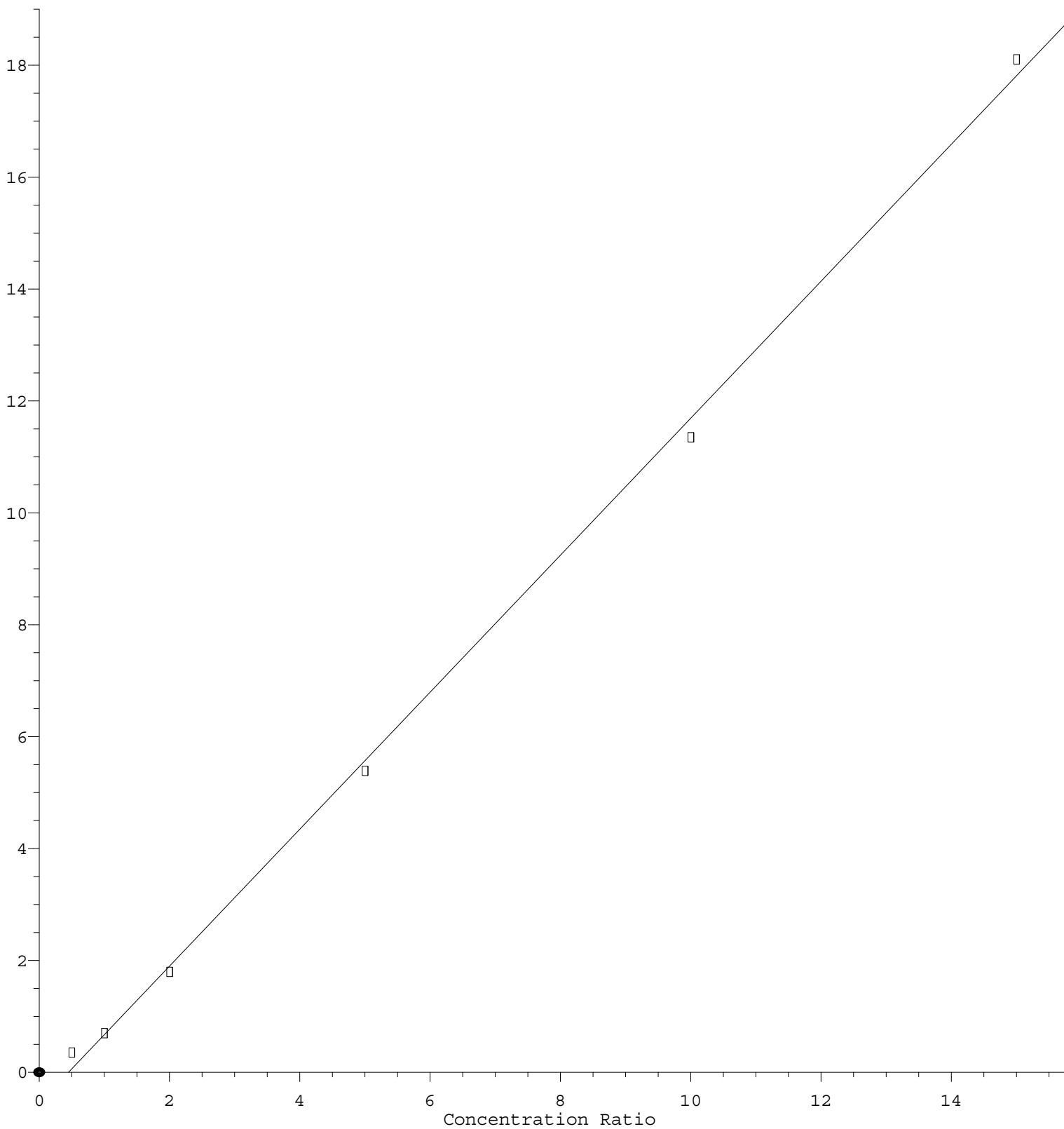
Coef of Det (r^2) = 0.998736 Curve Fit: Linear

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1,2,4-Trimethylbenzene

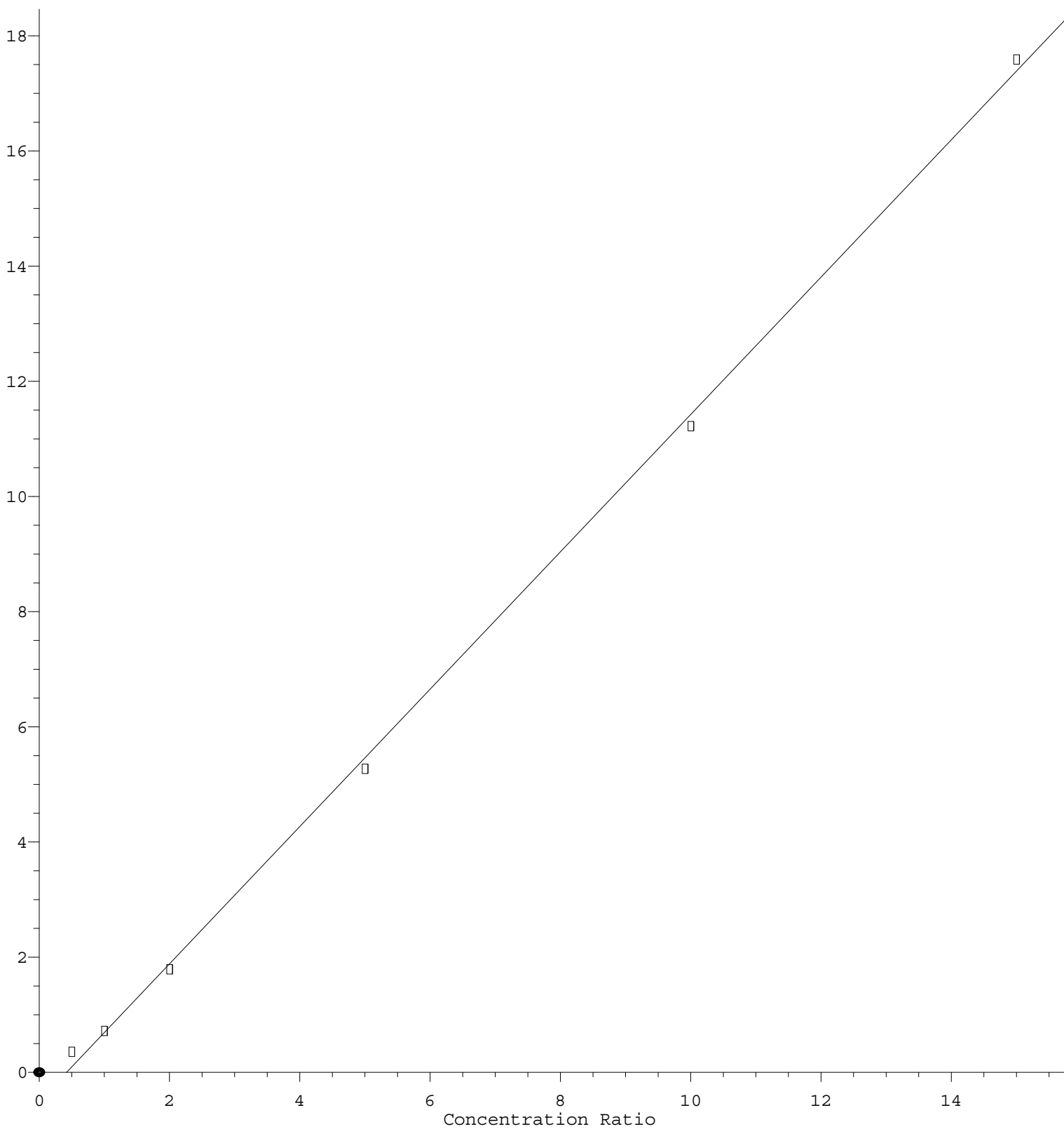
Response Ratio



Response = 1.225e+000 * Amt - 5.572e-001
 Coef of Det (r^2) = 0.998686 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U012323DW.M
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1,3,5-Trimethylbenzene

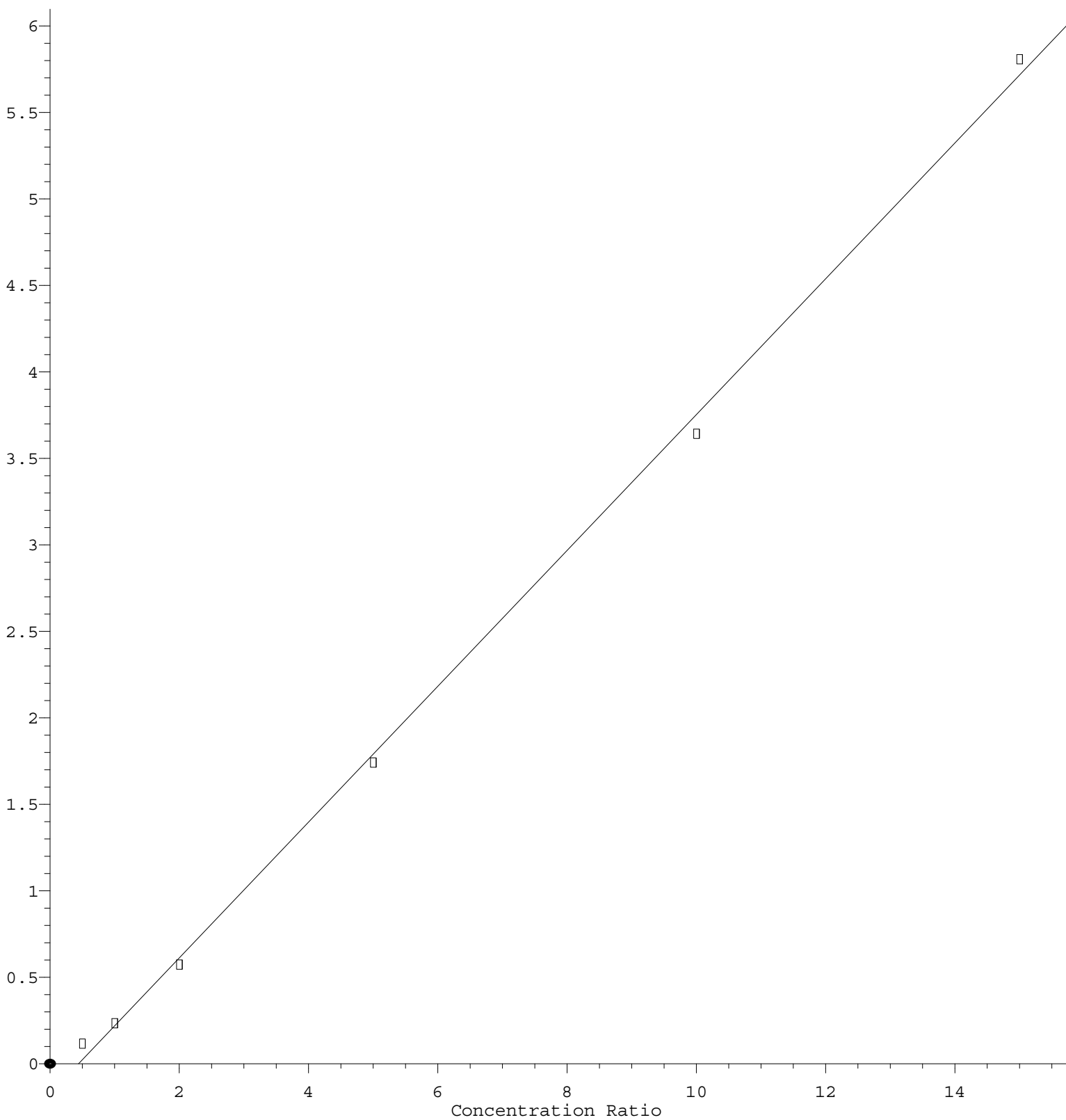
Response Ratio



Response = 1.192e+000 * Amt - 5.005e-001
 Coef of Det (r^2) = 0.999179 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U012323DW.M
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n-propylbenzene

Response Ratio



$$\text{Response} = 3.926\text{e-}001 * \text{Amt} - 1.730\text{e-}001$$

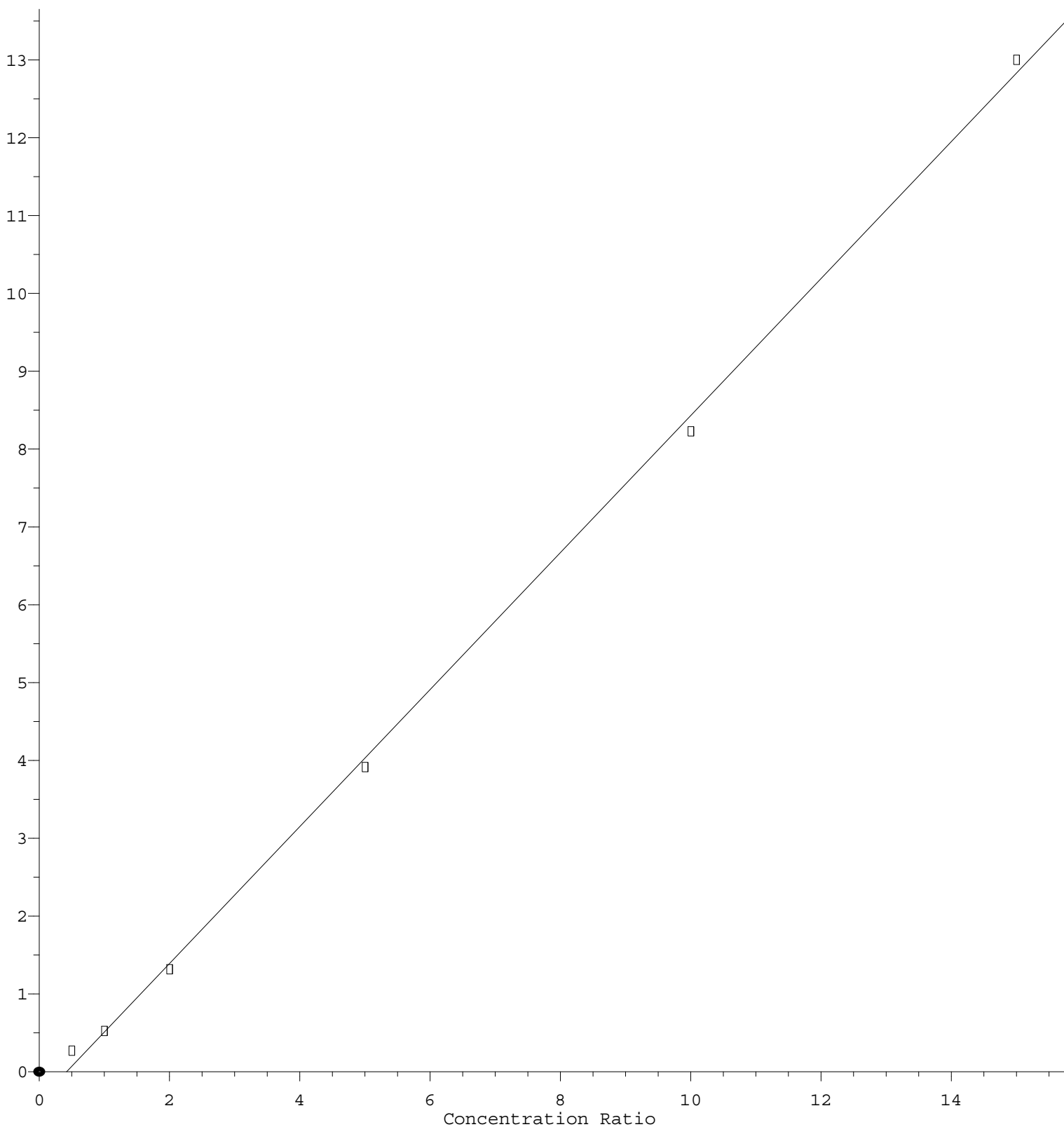
Coef of Det (r^2) = 0.998716 Curve Fit: Linear

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Styrene

Response Ratio



$$\text{Response} = 8.798\text{e-}001 * \text{Amt} - 3.700\text{e-}001$$

Coef of Det (r^2) = 0.999007 Curve Fit: Linear

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