Response Factor Report VOC_U

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
Method File : 524U021422DW.M
Title : METHOD 524.2 VOLATILES DRINKING WATER
Last Update : Tue Feb 15 03:17:28 2022
Response Via : Initial Calibration

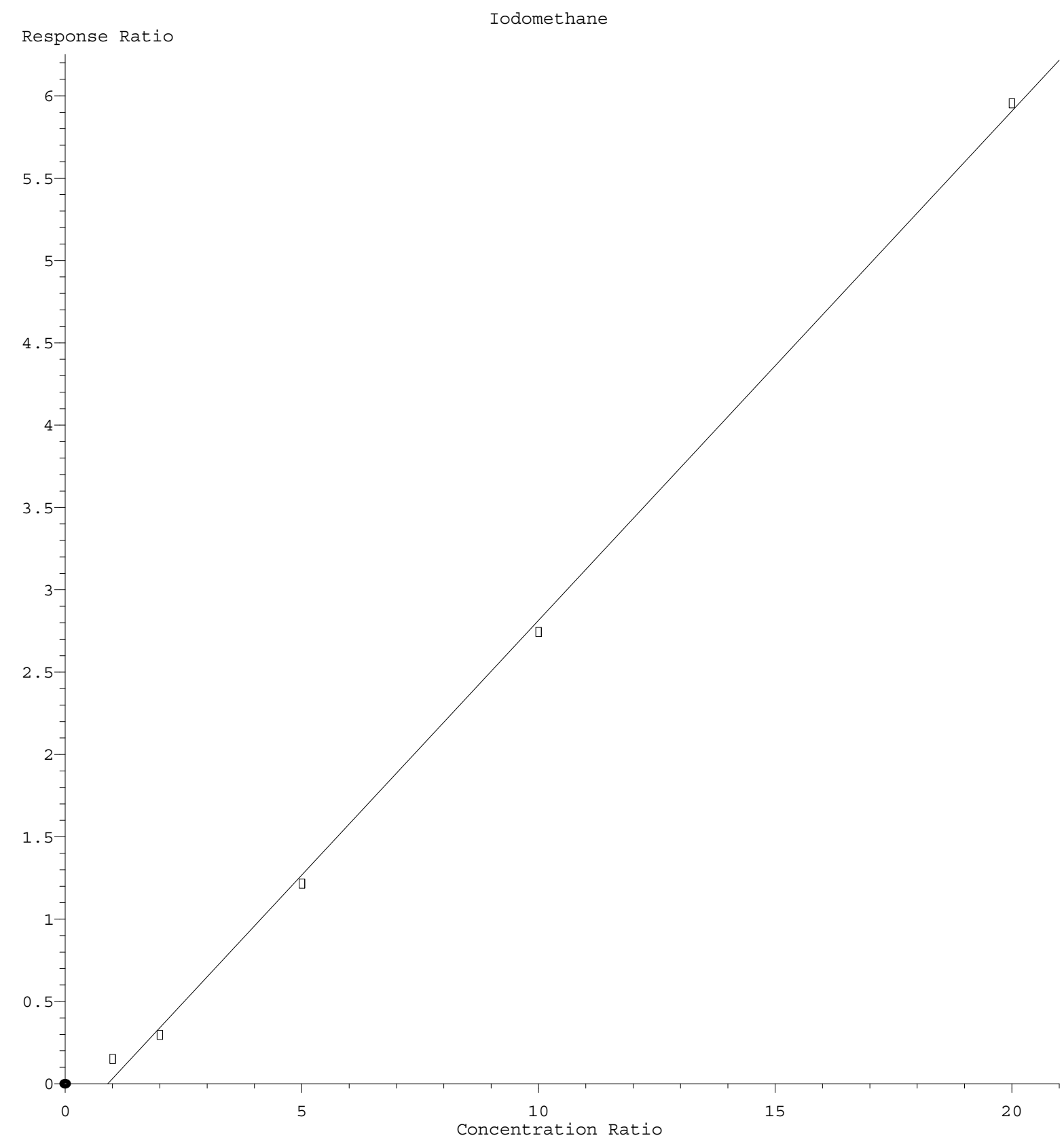
Calibration Files
0.5 =VU047125.D 1 =VU047126.D 2 =VU047127.D 5 =VU047128.D 10 =VU047129.D 20 =VU047130.D

		Compound	0.5	1	2	5	10	20	Avg	%RSD
1)	i	Fluorobenzene	----------	ISTD	----------					
2)	T	Dichlorodifluo...	0.299	0.319	0.304	0.355	0.356	0.368	0.333	8.92
3)	t	Chloromethane	0.327	0.323	0.305	0.364	0.366	0.369	0.342	7.98
4)	Rt	Vinyl Chloride	0.318	0.323	0.302	0.358	0.360	0.367	0.338	8.02
5)	T	Bromomethane	0.222	0.234	0.210	0.226	0.218	0.215	0.221	3.74
6)	T	Chloroethane	0.182	0.188	0.174	0.207	0.204	0.210	0.194	7.64
7)	T	Trichlorofluor...	0.373	0.377	0.363	0.420	0.425	0.433	0.398	7.69
8)		1,1,2-Trichlor...	0.211	0.224	0.211	0.243	0.245	0.244	0.230	7.19
9)	Rt	1,1-Dichloroet...	0.243	0.235	0.207	0.243	0.244	0.246	0.236	6.26
10)	t	Iodomethane		0.151	0.148	0.243	0.274	0.298	0.223	31.28
11)	t	Allyl Chloride	0.351	0.353	0.333	0.391	0.391	0.391	0.368	6.98
12)	t	Acrylonitrile	0.085	0.067	0.065	0.064	0.063	0.072	0.069	12.05
13)	T	Acetone	0.038	0.032	0.039	0.040	0.038	0.056	0.040	20.65
14)	T	Carbon Disulfide	0.752	0.778	0.725	0.845	0.850	0.847	0.800	6.91
15)	RT	Methylene Chlo...	0.278	0.260	0.240	0.271	0.273	0.271	0.265	5.25
16)	RT	trans-1,2-Dich...	0.228	0.257	0.221	0.261	0.265	0.264	0.249	7.89
17)	t	1,1-Dichloroet...	0.434	0.442	0.416	0.484	0.486	0.482	0.457	6.68
18)	T	2-Butanone	0.067	0.054	0.065	0.073	0.070	0.090	0.070	16.92
19)		Cyclohexane	0.399	0.407	0.390	0.447	0.452	0.447	0.423	6.55
20)		Methylcyclohexane	0.439	0.444	0.418	0.496	0.501	0.503	0.467	8.02
21)	T	2,2-Dichloropr...	0.372	0.392	0.377	0.435	0.439	0.435	0.408	7.70
22)	RT	cis-1,2-Dichlo...	0.286	0.278	0.259	0.298	0.301	0.299	0.287	5.72
23)	t	Diethyl Ether	0.182	0.182	0.172	0.200	0.202	0.209	0.191	7.62
24)	t	tert-Butyl Alc...		0.012	0.013	0.013	0.013	0.011	0.012	8.40
25)	t	Methyl tert-Bu...	0.653	0.641	0.592	0.699	0.691	0.701	0.663	6.47
26)	t	Bromochloromet...	0.118	0.122	0.119	0.138	0.138	0.139	0.129	8.01
27)	t	Chloroform	0.464	0.463	0.419	0.478	0.477	0.482	0.464	5.02
28)	RT	1,1,1-Trichlor...	0.375	0.390	0.366	0.424	0.427	0.427	0.402	6.96
29)	T	1,1-Dichloropr...	0.349	0.351	0.331	0.388	0.392	0.394	0.368	7.38
30)	RT	Carbon Tetrach...	0.318	0.345	0.320	0.377	0.380	0.379	0.353	8.35
31)	t	Isopropyl Ether	0.684	0.690	0.658	0.780	0.783	0.790	0.731	8.17
32)		Ethyl-t-butyl ...	0.696	0.700	0.665	0.784	0.799	0.815	0.743	8.57
33)		Tert-Amyl meth...	0.644	0.636	0.621	0.720	0.727	0.758	0.684	8.40
34)	t	Propionitrile	0.017	0.013	0.019	0.021	0.019	0.027	0.019	24.48
35)	RT	Benzene	0.955	0.991	0.940	1.088	1.105	1.101	1.030	7.44
36)	RT	1,2-Dichloroet...	0.281	0.304	0.286	0.330	0.335	0.335	0.312	7.93
37)	RT	Trichloroethene	0.267	0.274	0.261	0.304	0.304	0.301	0.285	7.02
38)	Rt	1,2-Dichloropr...	0.252	0.262	0.248	0.289	0.291	0.294	0.273	7.73
39)	t	Methacrylonitrile	0.093	0.084	0.085	0.098	0.096	0.107	0.094	9.23
40)	t	Methyl acrylate	0.154	0.125	0.143	0.165	0.161	0.205	0.159	16.86
41)	t	Tetrahydrofuran	0.057	0.041	0.043	0.046	0.044	0.057	0.048	14.99
42)	t	1-Chlorobutane	0.474	0.456	0.446	0.529	0.529	0.527	0.494	7.90
43)	T	Dibromomethane	0.137	0.141	0.135	0.155	0.158	0.156	0.147	7.20
44)	T	Bromodichlorom...	0.325	0.331	0.314	0.367	0.377	0.373	0.348	7.94
45)	T	4-Methyl-2-Pen...	0.185	0.174	0.183	0.216	0.217	0.218	0.199	10.20
46)	t	t-1,4-Dichloro...	0.081	0.079	0.074	0.090	0.077	0.119	0.087	19.17
47)	t	Methyl methacr...	0.155	0.143	0.139	0.160	0.161	0.167	0.154	7.00
48)	t	Ethyl methacry...	0.281	0.277	0.284	0.338	0.347	0.348	0.313	11.28
49)	Rt	Toluene	0.597	0.635	0.604	0.709	0.722	0.719	0.664	8.86
50)	T	t-1,3-Dichloro...	0.343	0.343	0.335	0.406	0.413	0.417	0.376	10.52
51)	T	cis-1,3-Dichlo...	0.380	0.394	0.379	0.455	0.462	0.461	0.422	9.83
52)	RT	1,1,2-Trichlor...	0.194	0.201	0.193	0.225	0.223	0.222	0.210	7.32
53)	t	1,3-Dichloropr...	0.349	0.353	0.341	0.403	0.406	0.396	0.375	8.07
54)	t	2-Hexanone	0.143	0.138	0.133	0.158	0.158	0.159	0.148	7.77
55)	t	Dibromochlorom...	0.224	0.239	0.228	0.273	0.283	0.282	0.255	10.70
56)	T	1,2-Dibromoethane	0.197	0.203	0.188	0.225	0.232	0.227	0.212	8.64
57)	S	4-Bromofluorob...	0.378	0.389	0.378	0.389	0.395	0.394	0.387	1.95

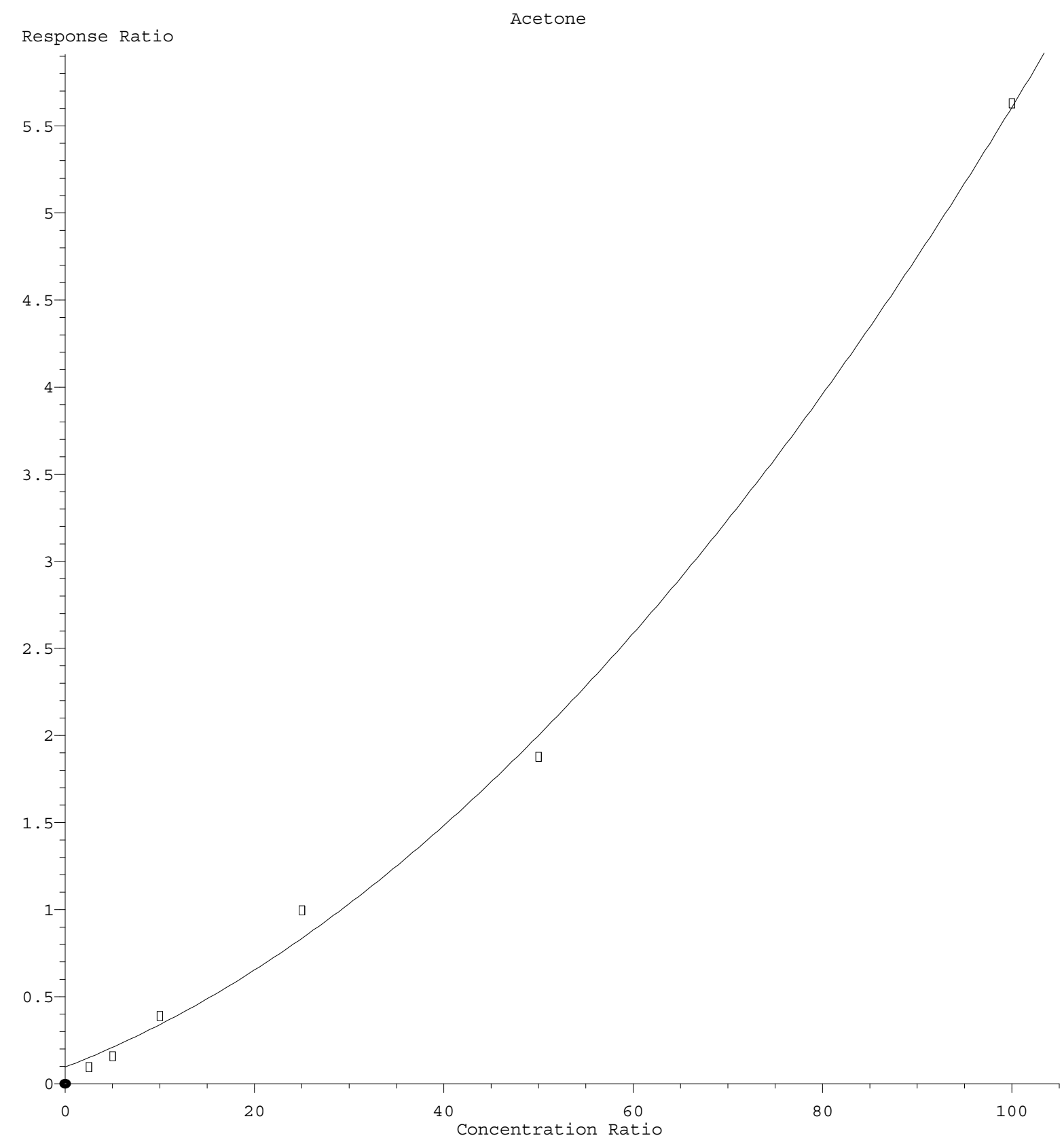
Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
Method File : 524U021422DW.M

58)	RT	Tetrachloroethene	0.240	0.255	0.238	0.286	0.283	0.276	0.263	8.17
59)	Rt	Chlorobenzene	0.680	0.708	0.670	0.788	0.796	0.801	0.741	8.26
60)	T	1,1,1,2-Tetrac...	0.232	0.236	0.224	0.272	0.280	0.284	0.255	10.62
61)	t	Pentachloroethane	0.170	0.171	0.169	0.207	0.219	0.224	0.193	13.58
62)	t	Hexachloroethane	0.182	0.183	0.178	0.223	0.237	0.250	0.209	15.14
63)	Rt	Ethyl Benzene	1.184	1.243	1.179	1.382	1.411	1.414	1.302	8.64
64)	RT	m/p-Xylenes	0.433	0.468	0.450	0.537	0.543	0.547	0.496	10.45
65)	RT	o-Xylene	0.424	0.451	0.436	0.517	0.527	0.531	0.481	10.27
66)	RT	Styrene	0.713	0.762	0.732	0.876	0.900	0.913	0.816	11.03
67)	t	Bromoform	0.146	0.147	0.138	0.175	0.181	0.183	0.162	12.43
68)	S	1,2-Dichlorobe...	0.391	0.406	0.385	0.401	0.414	0.423	0.403	3.56
69)	T	Isopropylbenzene	1.154	1.223	1.165	1.387	1.406	1.424	1.293	9.75
70)	T	1,1,2,2-Tetrac...	0.258	0.266	0.256	0.302	0.305	0.314	0.284	9.24
71)	T	1,2,3-Trichlor...	0.220	0.233	0.218	0.263	0.272	0.229	0.239	9.58
72)	t	Bromobenzene	0.285	0.295	0.283	0.341	0.344	0.348	0.316	9.93
73)	t	n-propylbenzene	0.315	0.324	0.315	0.390	0.393	0.399	0.356	11.72
74)	t	2-Chlorotoluene	0.276	0.278	0.272	0.326	0.333	0.335	0.304	10.18
75)	t	1,3,5-Trimethy...	0.948	0.988	0.938	1.131	1.167	1.190	1.061	10.86
76)	t	4-Chlorotoluene	0.287	0.295	0.285	0.344	0.350	0.353	0.319	10.43
77)	t	tert-Butylbenzene	0.964	0.976	0.929	1.142	1.170	1.204	1.064	11.35
78)	t	1,2,4-Trimethy...	0.969	1.011	0.966	1.154	1.175	1.217	1.082	10.39
79)	t	sec-Butylbenzene	1.243	1.284	1.258	1.534	1.564	1.596	1.413	11.86
80)		Nitrobenzene	0.013	0.011	0.011	0.014	0.015	0.018	0.014	19.06
81)	t	p-Isopropyltol...	1.061	1.093	1.060	1.292	1.315	1.354	1.196	11.56
82)	t	1,3-Dichlorobe...	0.558	0.583	0.545	0.651	0.670	0.682	0.615	9.76
83)	Rt	1,4-Dichlorobe...	0.569	0.593	0.542	0.658	0.666	0.688	0.619	9.57
84)	t	n-Butylbenzene	1.000	1.045	1.013	1.235	1.276	1.321	1.148	12.59
85)	Rt	1,2-Dichlorobe...	0.555	0.562	0.516	0.622	0.639	0.657	0.592	9.41
86)	t	1,2-Dibromo-3-...	0.050	0.049	0.045	0.054	0.056	0.057	0.052	8.57
87)	Rt	1,2,4-Trichlor...	0.421	0.434	0.408	0.495	0.506	0.524	0.465	10.70
88)	t	Hexachlorobuta...	0.204	0.227	0.208	0.258	0.258	0.271	0.238	12.06
89)	t	Naphthalene		0.871	0.820	1.001	1.026	1.041	0.952	10.49
90)	t	1,2,3-Trichlor...	0.363	0.394	0.365	0.447	0.464	0.468	0.417	11.64

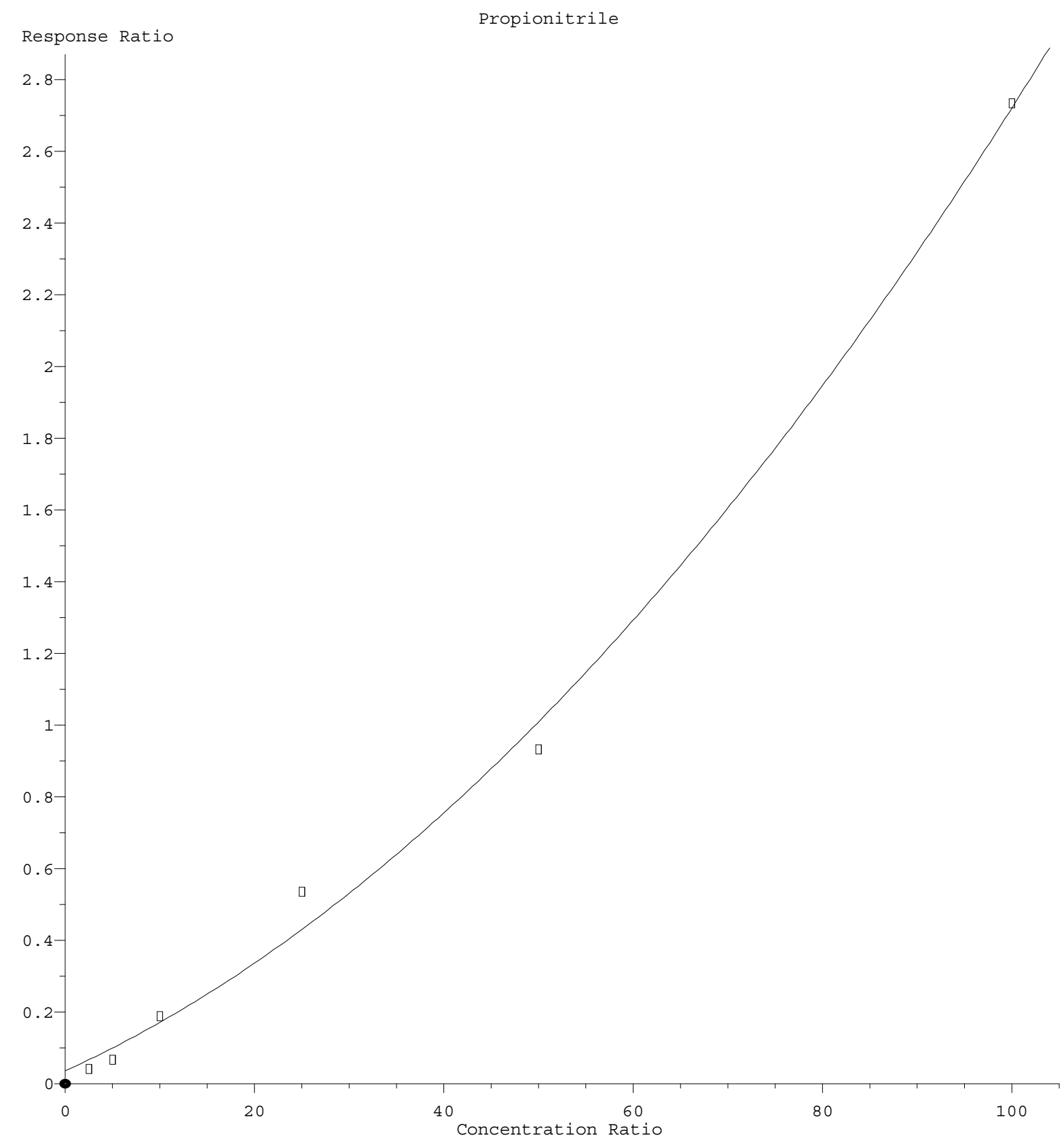
(#) = Out of Range



Response = 3.093e-001 * Amt - 2.786e-001
Coef of Det (r^2) = 0.998862 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U021422DW.M
Calibration Table Last Updated: Tue Feb 15 03:17:28 2022



R = 3.409e-004 A*A + 2.103e-002 A + 9.569e-002
Coef of Det (r^2) = 0.997796 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021422DW.M
Calibration Table Last Updated: Tue Feb 15 03:17:28 2022



R = 1.479e-004 A*A + 1.207e-002 A + 3.582e-002
Coef of Det (r^2) = 0.996395 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021422DW.M
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