

Frequency kHz	Transmit Voltage volts	Transmit Current amps	Real Power watts	Z Magnitude ohms	Phase (Z) deg	TVR dB// uPa/volt	TCR dB// uPa/amp	SPL dB//uPa
AQ339 Se 10 Hz to 1000 Hz various gates NUWC - Lubell Labs / Dodge Pond 5 Oct 2009								
0.020	19.90	2.57	50.77	7.74	-7.33	96.83	114.60	122.81
0.025	20.01	3.41	68.06	5.87	3.59	101.55	116.93	127.58
0.030	19.92	3.55	70.27	5.61	5.91	105.43	120.42	131.42
0.035	19.97	3.53	69.88	5.65	8.02	108.52	123.57	134.53
0.040	19.97	3.47	68.51	5.75	8.83	111.57	126.76	137.57
0.045	19.96	3.45	67.89	5.78	10.06	113.84	129.08	139.85
0.050	20.05	3.35	66.30	5.99	8.85	116.96	132.52	143.01
0.055	19.97	3.39	66.28	5.89	11.48	118.60	134.00	144.60
0.060	20.00	3.33	65.13	6.00	12.27	120.53	136.10	146.56
0.065	19.96	3.25	63.08	6.14	13.45	121.18	136.95	147.19
0.070	20.05	3.33	64.98	6.02	13.36	123.02	138.62	149.07
0.075	20.13	3.33	65.61	6.05	11.64	124.14	139.77	150.21
0.080	20.04	3.43	66.94	5.84	13.11	124.72	140.06	150.76
0.085	20.02	3.39	66.44	5.91	11.69	126.17	141.60	152.20
0.090	20.03	3.10	59.24	6.46	17.57	128.80	145.00	154.83
0.095	20.08	2.97	56.87	6.77	17.33	131.92	148.53	157.97
0.100	20.00	2.76	51.28	7.24	21.92	132.72	149.91	158.74
0.105	20.00	2.54	47.93	7.88	19.35	136.26	154.19	162.28
0.110	19.95	2.46	45.84	8.10	21.18	137.49	155.66	163.49
0.115	20.03	2.13	40.46	9.42	18.05	138.77	158.26	164.81
0.120	19.96	2.32	45.30	8.61	11.58	136.57	155.28	162.58
0.125	19.97	1.99	37.87	10.05	17.42	140.74	160.78	166.75
0.130	19.97	2.05	40.91	9.74	2.38	143.75	163.52	169.76
0.135	19.97	2.37	46.85	8.44	7.63	141.00	159.53	167.01
0.140	19.98	2.81	54.85	7.12	-12.07	143.28	160.32	169.29
0.145	20.03	2.69	53.57	7.45	6.09	137.09	154.53	163.12
0.150	20.15	3.23	65.13	6.23	0.83	136.22	152.12	162.31
0.155	19.99	2.95	59.01	6.77	1.27	132.85	149.46	158.86
0.160	20.01	2.96	59.17	6.75	3.24	132.50	149.09	158.52
0.165	19.98	3.24	64.29	6.17	6.06	133.97	149.78	159.98
0.170	19.97	3.05	60.91	6.54	2.41	131.21	147.52	157.22
0.175	20.04	3.39	67.79	5.91	4.50	129.28	144.71	155.32
0.180	20.13	3.76	73.68	5.35	13.27	127.18	141.75	153.25
0.185	19.99	2.99	58.83	6.68	10.43	127.60	144.09	153.61
0.190	20.05	3.19	62.77	6.29	10.96	129.90	145.87	155.94
0.195	19.91	2.93	56.46	6.80	14.59	130.69	147.34	156.68
0.200	20.18	2.89	56.31	6.98	15.08	129.73	146.60	155.82
0.205	20.03	3.27	63.17	6.12	15.63	127.06	142.79	153.09
0.210	19.93	3.17	60.27	6.28	17.66	123.76	139.72	149.75

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AQ339 Se 10 Hz to 1000 Hz various gates NUWC - Lubell Labs / Dodge Pond 5 Oct 2009								
0.215	19.98	2.93	55.53	6.82	18.45	122.82	139.49	148.83
0.220	20.04	3.08	57.43	6.51	21.28	129.56	145.83	155.59
0.225	20.08	3.23	60.19	6.22	21.82	131.24	147.11	157.29
0.230	20.02	2.81	53.70	7.13	17.12	139.52	156.58	165.54
0.235	19.98	3.28	61.95	6.08	19.21	139.57	155.26	165.59
0.240	19.94	2.70	51.09	7.38	18.32	141.04	158.41	167.03
0.245	19.95	2.45	46.33	8.15	18.55	142.63	160.85	168.63
0.250	20.04	2.51	47.44	7.99	19.25	145.84	163.90	171.88
0.255	20.06	2.22	42.31	9.02	18.40	145.48	164.58	171.52
0.260	20.04	2.47	47.16	8.11	17.67	147.07	165.25	173.10
0.265	20.07	2.80	53.35	7.17	18.05	145.72	162.84	171.77
0.270	19.93	2.89	53.03	6.91	22.83	144.94	161.72	170.93
0.275	19.96	2.76	51.17	7.22	21.97	145.99	163.16	171.99
0.280	19.96	2.56	48.72	7.79	17.67	146.29	164.13	172.30
0.285	19.97	2.72	51.14	7.34	19.67	144.89	162.20	170.89
0.290	19.98	2.68	50.38	7.45	19.97	144.43	161.87	170.44
0.295	19.92	2.59	49.48	7.70	16.34	142.16	159.89	168.15
0.300	20.09	2.59	49.70	7.76	17.32	143.32	161.11	169.38
0.305	19.99	2.68	50.33	7.46	20.04	142.95	160.41	168.97
0.310	19.96	2.64	49.63	7.57	19.57	142.59	160.17	168.60
0.315	19.96	2.62	49.37	7.61	19.43	141.97	159.60	167.97
0.320	20.05	2.60	49.89	7.70	17.12	138.71	156.43	164.75
0.325	19.96	2.69	51.75	7.41	15.68	138.72	156.11	164.72
0.330	19.98	2.82	52.36	7.09	21.69	140.91	157.91	166.92
0.335	19.90	2.67	50.49	7.45	18.32	139.79	157.24	165.77
0.340	20.02	2.74	50.25	7.29	23.88	140.80	158.06	166.83
0.345	19.96	2.71	48.91	7.38	25.14	141.46	158.81	167.46
0.350	19.98	2.68	49.33	7.46	22.73	141.20	158.65	167.21
0.355	20.08	2.67	48.99	7.52	24.02	141.72	159.24	167.77
0.360	20.02	2.60	47.68	7.71	23.44	141.86	159.60	167.89
0.365	19.96	2.55	44.93	7.83	28.04	142.16	160.03	168.16
0.370	20.05	2.55	44.60	7.85	29.44	142.07	159.96	168.11
0.375	20.02	2.55	44.70	7.84	29.00	142.10	159.99	168.13
0.380	19.95	2.46	44.48	8.10	25.10	141.05	159.22	167.05
0.385	20.08	2.46	43.32	8.17	28.72	141.21	159.45	167.27
0.390	20.07	2.49	43.84	8.07	28.48	141.03	159.17	167.08
0.395	20.05	2.39	42.13	8.39	28.50	140.86	159.33	166.90
0.400	19.96	2.38	40.43	8.38	31.82	140.24	158.70	166.25
0.405	19.96	2.32	39.57	8.61	31.27	141.36	160.06	167.36
0.410	20.06	2.21	37.03	9.07	33.42	142.98	162.13	169.02

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AQ339 Se 10 Hz to 1000 Hz various gates NUWC - Lubell Labs / Dodge Pond 5 Oct 2009								
0.415	20.00	2.21	37.48	9.04	32.14	143.78	162.90	169.80
0.420	19.97	2.14	36.69	9.33	30.88	144.46	163.85	170.47
0.425	20.10	2.17	38.54	9.25	28.09	144.53	163.85	170.59
0.430	19.99	2.03	35.69	9.83	28.54	146.47	166.32	172.49
0.435	19.95	2.02	35.70	9.87	27.66	146.41	166.30	172.41
0.440	19.91	1.79	31.37	11.10	28.46	148.21	169.12	174.19
0.445	20.02	1.79	31.95	11.20	26.69	148.70	169.69	174.73
0.450	20.04	1.91	35.19	10.49	23.18	148.91	169.33	174.95
0.455	19.99	1.89	35.05	10.59	21.83	149.30	169.80	175.32
0.460	20.00	2.00	37.44	10.02	20.36	148.80	168.81	174.82
0.465	20.07	1.97	36.83	10.21	21.14	149.60	169.77	175.65
0.470	19.96	1.97	37.09	10.11	19.76	149.68	169.78	175.69
0.475	19.74	2.14	40.32	9.25	16.96	148.04	167.36	173.95
0.480	19.71	2.03	38.54	9.72	15.33	148.24	168.00	174.13
0.485	20.01	1.98	38.26	10.09	15.36	148.34	168.42	174.37
0.490	20.01	2.07	40.30	9.68	12.98	148.24	167.96	174.27
0.495	20.05	2.10	41.18	9.54	12.40	147.70	167.29	173.74
0.500	20.02	2.21	42.94	9.08	13.44	146.56	165.72	172.59
0.505	19.98	2.21	43.18	9.03	12.18	145.94	165.06	171.95
0.510	20.07	2.38	46.64	8.43	12.63	144.10	162.62	170.15
0.515	20.15	2.24	43.78	8.98	14.46	144.82	163.89	170.91
0.520	20.07	2.14	42.05	9.38	11.97	144.67	164.11	170.72
0.525	20.03	2.20	43.04	9.11	12.11	143.60	162.79	169.63
0.530	19.88	2.24	43.32	8.89	13.04	141.31	160.29	167.28
0.535	19.97	2.33	45.08	8.58	14.10	142.06	160.74	168.07
0.540	20.05	2.33	45.45	8.61	13.32	141.97	160.67	168.02
0.545	19.97	2.42	46.44	8.24	16.21	140.57	158.90	166.58
0.550	19.92	2.37	45.51	8.42	15.03	141.01	159.51	166.99
0.555	20.06	2.48	47.76	8.08	16.45	139.71	157.86	165.76
0.560	20.09	2.60	50.51	7.71	15.13	141.27	159.01	167.33
0.565	20.03	2.64	50.58	7.59	16.71	140.50	158.11	166.53
0.570	19.97	2.44	46.38	8.19	17.86	141.22	159.49	167.23
0.575	19.98	2.53	47.77	7.90	18.85	139.63	157.58	165.64
0.580	19.91	2.53	47.61	7.87	19.09	138.65	156.57	164.63
0.585	20.00	2.55	47.92	7.84	20.12	138.92	156.80	164.94
0.590	19.96	2.54	47.63	7.87	19.75	138.45	156.38	164.46
0.595	20.02	2.62	49.21	7.63	20.41	138.32	155.97	164.35
0.600	19.98	2.56	48.30	7.81	19.07	137.98	155.84	163.99
0.605	20.09	2.59	48.52	7.76	21.18	137.56	155.35	163.62
0.610	19.97	2.61	48.15	7.66	22.24	137.12	154.81	163.13

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AQ339 Se 10 Hz to 1000 Hz various gates NUWC - Lubell Labs / Dodge Pond 5 Oct 2009								
0.615	19.96	2.53	46.81	7.90	21.83	136.67	154.62	162.67
0.620	19.95	2.54	46.19	7.86	24.11	136.26	154.17	162.25
0.625	19.93	2.57	45.54	7.75	27.27	135.81	153.60	161.80
0.630	19.92	2.52	46.10	7.91	23.29	135.19	153.15	161.17
0.635	20.02	2.45	44.21	8.16	25.84	134.79	153.03	160.82
0.640	20.05	2.45	43.92	8.19	26.51	134.31	152.58	160.35
0.645	20.05	2.49	43.95	8.04	28.48	133.78	151.89	159.83
0.650	19.99	2.41	42.24	8.29	28.83	133.19	151.55	159.20
0.655	19.96	2.43	42.86	8.23	27.72	132.70	151.01	158.71
0.660	20.04	2.47	41.77	8.13	32.27	132.23	150.42	158.26
0.665	20.24	2.44	43.17	8.29	29.17	131.41	149.78	157.54
0.670	20.07	2.40	42.65	8.35	27.85	130.77	149.20	156.82
0.675	19.98	2.38	41.55	8.40	29.05	130.27	148.75	156.28
0.680	20.06	2.39	39.59	8.41	34.20	130.66	149.16	156.71
0.685	20.02	2.33	39.85	8.59	31.33	129.58	148.26	155.61
0.690	19.75	2.31	39.21	8.57	30.56	128.76	147.41	154.67
0.695	20.06	2.35	41.18	8.52	29.32	128.20	146.81	154.25
0.700	20.06	2.30	39.37	8.71	31.62	128.47	147.27	154.52
0.705	19.84	2.26	38.31	8.78	31.30	127.80	146.67	153.75
0.710	19.92	2.30	37.37	8.65	35.52	127.69	146.42	153.67
0.715	20.34	2.42	42.07	8.40	31.39	126.66	145.14	152.83
0.720	20.04	2.34	40.38	8.58	30.37	125.94	144.61	151.98
0.725	19.99	2.36	40.01	8.48	31.84	126.48	145.05	152.50
0.730	20.01	2.27	38.71	8.82	31.45	126.42	145.33	152.44
0.735	19.99	2.24	38.16	8.91	31.65	126.07	145.07	152.08
0.740	20.04	2.29	39.35	8.75	30.98	125.90	144.74	151.94
0.745	19.98	2.10	35.05	9.49	33.51	126.77	146.32	152.79
0.750	19.96	2.25	38.29	8.89	31.36	126.01	144.98	152.01
0.755	19.94	2.17	36.64	9.18	32.21	126.61	145.86	152.60
0.760	19.93	2.17	36.60	9.17	32.35	126.45	145.70	152.44
0.765	20.00	1.99	33.25	10.04	33.50	126.92	146.95	152.94
0.770	19.94	2.13	35.96	9.35	32.29	125.80	145.22	151.80
0.775	19.93	2.16	36.65	9.21	31.81	125.63	144.91	151.62
0.780	20.00	2.18	36.76	9.18	32.42	125.90	145.16	151.92
0.785	19.93	2.11	35.65	9.43	32.20	125.65	145.14	151.64
0.790	19.98	2.16	36.57	9.25	32.05	125.50	144.82	151.51
0.795	19.93	1.92	31.92	10.39	33.42	126.23	146.56	152.22
0.800	19.94	2.14	36.18	9.31	32.10	125.18	144.55	151.17
0.805	20.15	2.10	35.93	9.62	31.66	125.22	144.88	151.31
0.810	19.93	1.97	33.54	10.12	31.26	125.14	145.24	151.13

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AQ339 Se 10 Hz to 1000 Hz various gates NUWC - Lubell Labs / Dodge Pond 5 Oct 2009								
0.815	19.99	2.09	35.32	9.58	32.20	124.60	144.22	150.61
0.820	20.02	2.03	34.35	9.85	32.42	124.69	144.56	150.72
0.825	20.04	2.08	35.05	9.62	32.91	124.36	144.02	150.39
0.830	19.92	2.04	34.20	9.78	32.60	124.28	144.08	150.26
0.835	20.07	1.97	33.93	10.21	30.68	124.04	144.21	150.09
0.840	20.00	2.14	35.80	9.34	33.35	123.69	143.09	149.71
0.845	20.04	2.16	36.16	9.27	33.42	123.61	142.96	149.65
0.850	20.06	2.05	34.81	9.79	32.12	123.42	143.23	149.46
0.855	20.09	2.09	35.56	9.60	32.18	123.59	143.23	149.64
0.860	20.02	2.14	35.49	9.35	34.09	123.69	143.10	149.72
0.865	20.02	2.06	34.69	9.70	32.84	123.84	143.58	149.87
0.870	20.04	2.07	34.58	9.67	33.57	124.03	143.75	150.07
0.875	20.07	2.07	34.70	9.70	33.34	124.20	143.93	150.25
0.880	19.94	1.99	34.52	10.00	29.76	124.00	144.00	149.99
0.885	19.91	1.98	34.25	10.05	29.71	124.27	144.32	150.26
0.890	20.03	2.15	36.55	9.34	31.72	124.61	144.01	150.64
0.895	19.97	2.05	34.73	9.74	32.05	125.10	144.87	151.11
0.900	20.00	2.11	35.41	9.46	33.11	125.37	144.89	151.39
0.905	19.97	2.09	35.60	9.53	31.62	125.43	145.02	151.44
0.910	19.91	2.12	35.61	9.38	32.62	126.10	145.54	152.08
0.915	20.00	2.03	33.98	9.84	33.22	126.39	146.25	152.41
0.920	20.07	2.06	34.24	9.74	34.15	126.96	146.73	153.01
0.925	19.93	2.02	33.58	9.87	33.48	127.09	146.97	153.08
0.930	19.92	2.02	33.60	9.84	33.55	127.40	147.27	153.39
0.935	20.03	2.03	33.46	9.85	34.76	127.96	147.83	153.99
0.940	20.02	2.04	33.90	9.81	33.88	127.98	147.81	154.01
0.945	19.97	2.03	33.58	9.84	34.06	128.25	148.11	154.26
0.950	20.00	2.02	32.28	9.92	36.87	129.07	148.99	155.09
0.955	19.99	2.05	33.40	9.75	35.43	129.20	148.98	155.22
0.960	20.09	2.02	32.71	9.96	36.22	129.44	149.41	155.50
0.965	20.00	2.09	34.87	9.58	33.39	129.00	148.63	155.02
0.970	20.01	2.06	33.87	9.73	34.63	129.47	149.23	155.49
0.975	20.07	2.04	33.00	9.82	36.40	130.03	149.88	156.08
0.980	20.03	2.06	33.82	9.73	34.94	129.95	149.71	155.98
0.985	19.97	2.04	33.22	9.80	35.28	130.23	150.05	156.23
0.990	19.99	2.02	32.78	9.87	35.92	130.67	150.56	156.69
0.995	20.06	2.04	33.29	9.82	35.69	130.80	150.64	156.85
1.000	20.05	1.99	31.16	10.09	38.54	131.90	151.98	157.94