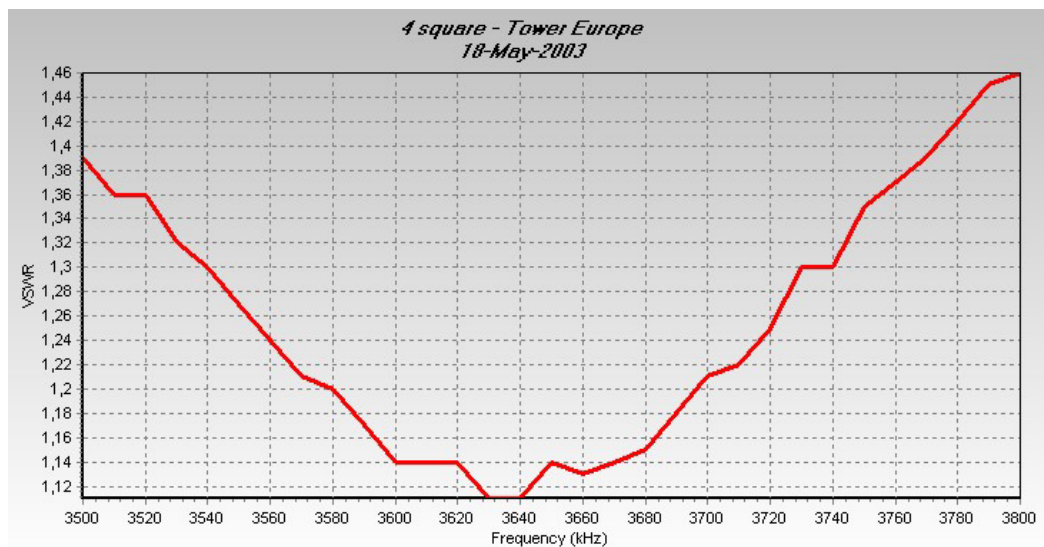


## 4 Square – Tower Europe

Date: 18/05/2003

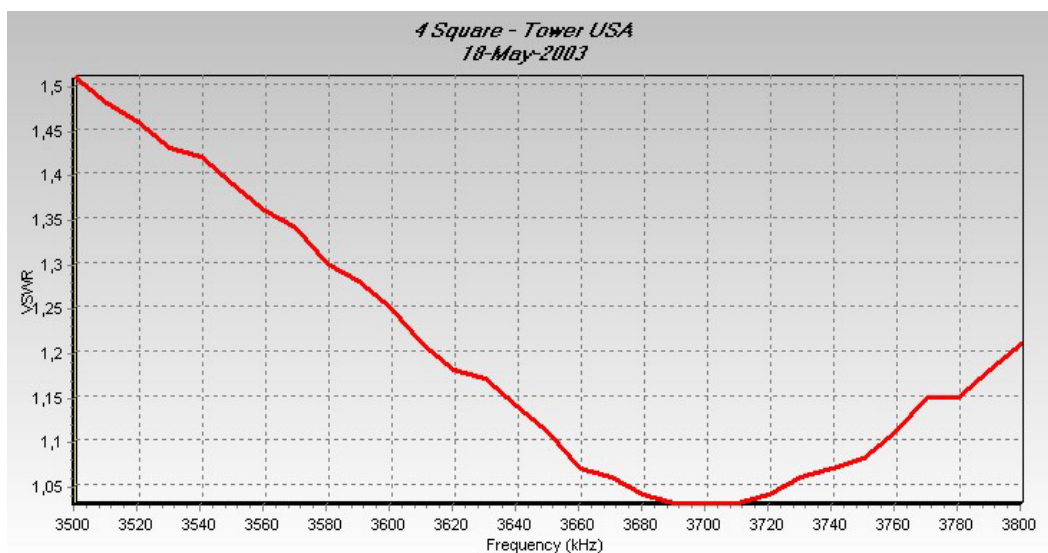
Freq	SWR	RL	Z	X	R	PhaseAngle
3500	1.390	-15.75	58.10	16.10	55.50	16.18
3510	1.360	-16.33	59.20	14.40	57.30	14.11
3520	1.360	-16.33	60.40	12.40	59.10	11.85
3530	1.320	-17.21	61.40	10.40	60.30	9.786
3540	1.300	-17.69	61.90	10.40	61.30	9.630
3550	1.270	-18.49	61.90	7.000	61.50	6.494
3560	1.240	-19.40	61.90	0.000	61.70	0.000
3570	1.210	-20.44	61.40	0.000	61.10	0.000
3580	1.200	-20.83	60.20	0.000	60.10	0.000
3590	1.170	-22.12	59.30	0.000	59.30	0.000
3600	1.140	-23.69	58.10	0.000	57.90	0.000
3610	1.140	-23.69	56.30	0.000	56.80	0.000
3620	1.140	-23.69	54.70	-3.300	54.60	-3.459
3630	1.110	-25.66	53.10	-4.600	52.50	-5.008
3640	1.110	-25.66	51.30	-5.500	51.10	-6.144
3650	1.140	-23.69	49.40	-5.400	49.10	-6.277
3660	1.130	-24.29	47.60	-4.300	47.20	-5.206
3670	1.140	-23.69	46.00	-3.000	45.80	-3.748
3680	1.150	-23.13	44.40	-2.900	44.10	-3.763
3690	1.180	-21.66	43.10	-2.900	42.70	-3.886
3700	1.210	-20.44	41.30	0.000	41.40	0.000
3710	1.220	-20.08	40.00	0.000	40.00	0.000
3720	1.250	-19.08	39.10	0.000	39.20	0.000
3730	1.300	-17.69	38.00	0.000	38.00	0.000
3740	1.300	-17.69	37.50	0.000	37.20	0.000
3750	1.350	-16.54	36.80	0.000	36.50	0.000
3760	1.370	-16.13	36.40	0.000	36.10	0.000
3770	1.390	-15.75	35.90	-2.600	35.90	-4.143
3780	1.420	-15.21	35.90	-2.600	35.80	-4.154
3790	1.450	-14.72	36.40	5.900	35.70	9.385
3800	1.460	-14.56	37.00	7.600	35.80	11.99



## 4 Square – Tower USA

Date: 18/05/2003

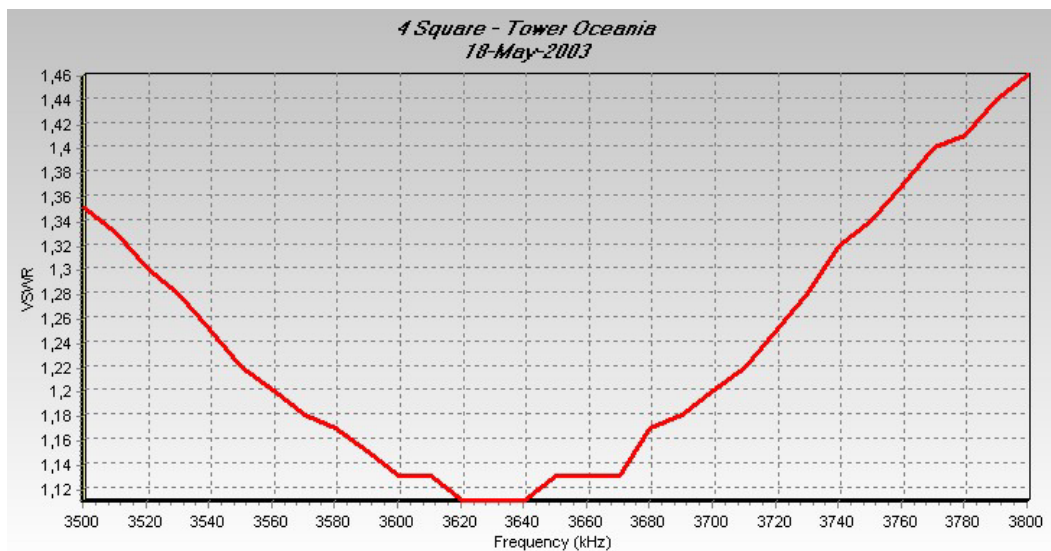
Freq	SWR	RL	Z	X	R	PhaseAngle
3500	1.570	-13.08	48.80	20.40	44.30	24.73
3510	1.550	-13.32	50.50	20.60	46.10	24.08
3520	1.510	-13.84	52.60	20.90	48.00	23.53
3530	1.500	-13.98	53.80	20.60	49.50	22.60
3540	1.480	-14.26	55.30	19.60	51.70	20.76
3550	1.460	-14.56	56.70	19.00	53.30	19.62
3560	1.430	-15.04	57.70	18.00	54.90	18.15
3570	1.410	-15.38	58.80	16.90	56.20	16.74
3580	1.390	-15.75	59.90	16.00	57.50	15.55
3590	1.370	-16.13	60.00	13.70	58.60	13.16
3600	1.340	-16.75	60.20	12.90	59.00	12.33
3610	1.300	-17.69	60.50	10.90	59.40	10.40
3620	1.280	-18.22	60.40	-8.400	59.80	-7.997
3630	1.250	-19.08	60.20	-8.400	59.40	-8.050
3640	1.220	-20.08	59.70	-3.400	59.40	-3.276
3650	1.200	-20.83	59.00	-4.800	58.90	-4.659
3660	1.180	-21.66	58.40	0.000	58.70	0.000
3670	1.140	-23.69	57.40	0.000	57.50	0.000
3680	1.130	-24.29	56.90	0.000	56.60	0.000
3690	1.100	-26.44	55.60	0.000	55.70	0.000
3700	1.080	-28.30	54.40	0.000	54.60	0.000
3710	1.070	-29.42	53.80	0.000	53.70	0.000
3720	1.040	-34.15	52.70	0.000	52.80	0.000
3730	1.030	-36.61	51.80	0.000	51.70	0.000
3740	1.030	-36.61	51.50	0.000	51.10	0.000
3750	1.030	-36.61	50.40	0.000	50.20	0.000
3760	1.040	-34.15	50.00	0.000	49.90	0.000
3770	1.060	-30.71	49.50	0.000	49.70	0.000
3780	1.070	-29.42	49.50	0.000	48.90	0.000
3790	1.080	-28.30	49.20	-5.400	49.00	-6.289
3800	1.130	-24.29	48.90	-5.300	48.60	-6.224



### 4 Square – Tower Oceania

Date: 18/05/2003

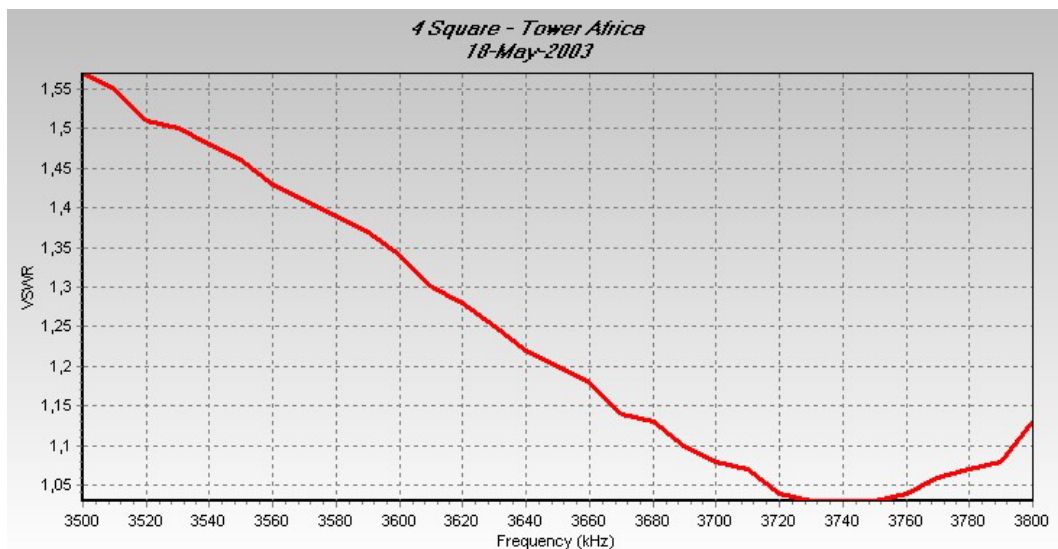
Freq	SWR	RL	Z	X	R	PhaseAngle
3500	1.350	-16.54	57.10	14.20	55.00	14.48
3510	1.330	-16.98	58.30	14.00	56.90	13.82
3520	1.300	-17.69	59.60	12.80	58.50	12.34
3530	1.280	-18.22	60.30	9.100	59.80	8.653
3540	1.250	-19.08	60.60	6.000	60.30	5.683
3550	1.220	-20.08	61.10	3.400	61.00	3.190
3560	1.200	-20.83	60.80	0.000	61.10	0.000
3570	1.180	-21.66	60.30	0.000	60.40	0.000
3580	1.170	-22.12	59.30	0.000	59.40	0.000
3590	1.150	-23.13	58.30	0.000	58.30	0.000
3600	1.130	-24.29	57.10	0.000	57.10	0.000
3610	1.130	-24.29	55.60	0.000	55.60	0.000
3620	1.110	-25.66	53.90	-4.600	53.80	-4.887
3630	1.110	-25.66	52.10	-5.500	52.30	-6.004
3640	1.110	-25.66	50.30	-5.500	50.20	-6.253
3650	1.130	-24.29	48.80	-5.400	48.50	-6.354
3660	1.130	-24.29	47.20	-4.300	47.00	-5.228
3670	1.130	-24.29	45.50	0.000	45.50	0.000
3680	1.170	-22.12	44.30	-2.900	44.00	-3.771
3690	1.180	-21.66	42.30	-2.900	42.60	-3.895
3700	1.200	-20.83	41.20	0.000	41.30	0.000
3710	1.220	-20.08	39.80	0.000	39.80	0.000
3720	1.250	-19.08	38.70	0.000	38.70	0.000
3730	1.280	-18.22	37.90	0.000	37.80	0.000
3740	1.320	-17.21	37.10	0.000	37.10	0.000
3750	1.340	-16.75	36.50	0.000	36.40	0.000
3760	1.370	-16.13	35.90	0.000	35.90	0.000
3770	1.400	-15.56	35.80	-2.600	35.60	-4.177
3780	1.410	-15.38	35.90	3.700	36.00	5.869
3790	1.440	-14.88	35.90	5.900	35.60	9.411
3800	1.460	-14.56	36.50	8.500	35.70	13.39



## 4 Square – Tower Africa

Date: 18/05/2003

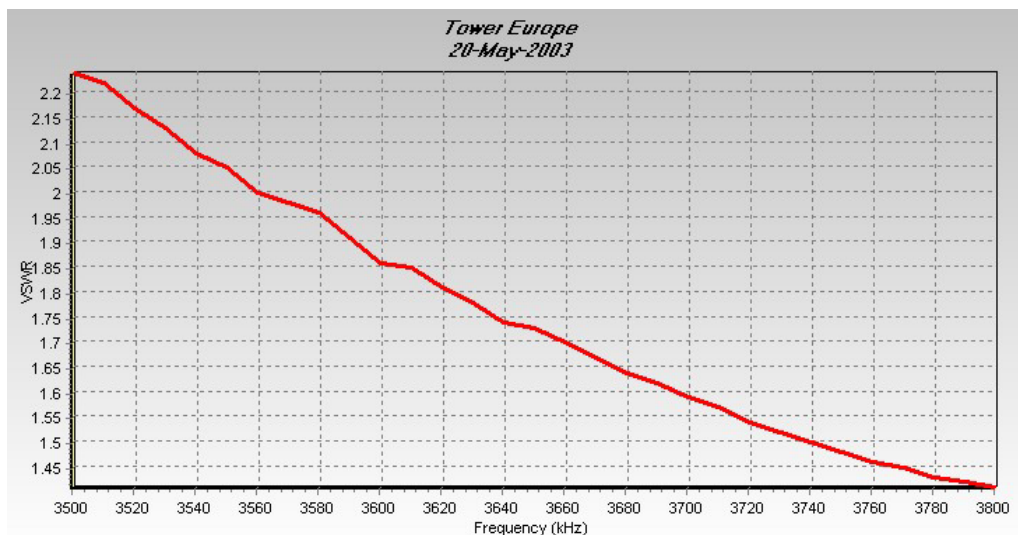
Freq	SWR	RL	Z	X	R	PhaseAngle
3500	1.570	-13.08	48.80	20.40	44.30	24.73
3510	1.550	-13.32	50.50	20.60	46.10	24.08
3520	1.510	-13.84	52.60	20.90	48.00	23.53
3530	1.500	-13.98	53.80	20.60	49.50	22.60
3540	1.480	-14.26	55.30	19.60	51.70	20.76
3550	1.460	-14.56	56.70	19.00	53.30	19.62
3560	1.430	-15.04	57.70	18.00	54.90	18.15
3570	1.410	-15.38	58.80	16.90	56.20	16.74
3580	1.390	-15.75	59.90	16.00	57.50	15.55
3590	1.370	-16.13	60.00	13.70	58.60	13.16
3600	1.340	-16.75	60.20	12.90	59.00	12.33
3610	1.300	-17.69	60.50	10.90	59.40	10.40
3620	1.280	-18.22	60.40	-8.400	59.80	-7.997
3630	1.250	-19.08	60.20	-8.400	59.40	-8.050
3640	1.220	-20.08	59.70	-3.400	59.40	-3.276
3650	1.200	-20.83	59.00	-4.800	58.90	-4.659
3660	1.180	-21.66	58.40	0.000	58.70	0.000
3670	1.140	-23.69	57.40	0.000	57.50	0.000
3680	1.130	-24.29	56.90	0.000	56.60	0.000
3690	1.100	-26.44	55.60	0.000	55.70	0.000
3700	1.080	-28.30	54.40	0.000	54.60	0.000
3710	1.070	-29.42	53.80	0.000	53.70	0.000
3720	1.040	-34.15	52.70	0.000	52.80	0.000
3730	1.030	-36.61	51.80	0.000	51.70	0.000
3740	1.030	-36.61	51.50	0.000	51.10	0.000
3750	1.030	-36.61	50.40	0.000	50.20	0.000
3760	1.040	-34.15	50.00	0.000	49.90	0.000
3770	1.060	-30.71	49.50	0.000	49.70	0.000
3780	1.070	-29.42	49.50	0.000	48.90	0.000
3790	1.080	-28.30	49.20	-5.400	49.00	-6.289
3800	1.130	-24.29	48.90	-5.300	48.60	-6.224



## Stand Alone - Tower Europe

Date: 20/05/2003

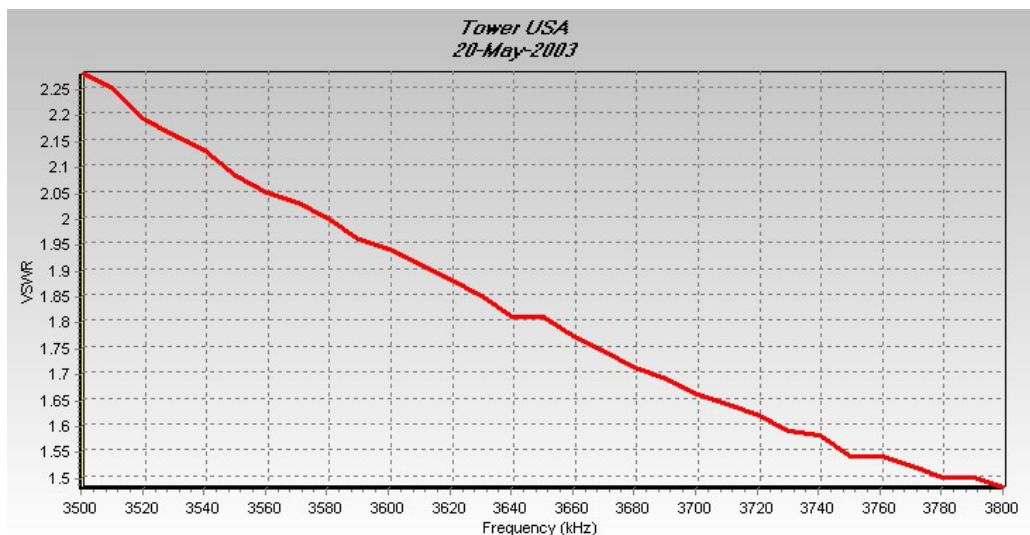
Freq	SWR	RL	Z	X	R	PhaseAngle
3500	2.240	-8.342	20.20	0.000	20.10	0.000
3510	2.220	-8.430	20.40	0.000	20.50	0.000
3520	2.170	-8.657	21.10	0.000	21.10	0.000
3530	2.130	-8.849	21.70	0.000	21.60	0.000
3540	2.080	-9.103	22.10	0.000	22.10	0.000
3550	2.050	-9.262	22.60	0.000	22.60	0.000
3560	2.000	-9.542	23.40	0.000	23.30	0.000
3570	1.980	-9.660	23.90	0.000	23.70	0.000
3580	1.960	-9.780	24.40	0.000	24.50	0.000
3590	1.910	-10.10	25.10	0.000	25.20	0.000
3600	1.860	-10.44	25.80	0.000	25.70	0.000
3610	1.850	-10.51	26.30	0.000	26.50	0.000
3620	1.810	-10.80	27.30	0.000	27.30	0.000
3630	1.780	-11.04	28.10	2.300	28.00	4.696
3640	1.740	-11.37	28.80	2.300	28.60	4.598
3650	1.730	-11.46	29.80	4.800	29.30	9.304
3660	1.700	-11.73	30.50	4.900	30.10	9.247
3670	1.670	-12.01	31.30	6.500	30.60	11.99
3680	1.640	-12.31	32.30	6.100	31.50	10.96
3690	1.620	-12.52	33.00	8.000	32.10	14.00
3700	1.590	-12.85	33.90	8.100	32.90	13.83
3710	1.570	-13.08	34.90	9.000	33.70	14.95
3720	1.540	-13.45	35.80	9.900	34.40	16.06
3730	1.520	-13.71	36.70	10.00	35.30	15.82
3740	1.500	-13.98	37.80	10.80	36.20	16.61
3750	1.480	-14.26	38.70	11.30	37.10	16.94
3760	1.460	-14.56	39.70	11.40	38.00	16.70
3770	1.450	-14.72	40.70	11.90	38.70	17.09
3780	1.430	-15.04	41.60	12.40	39.80	17.31
3790	1.420	-15.21	42.60	12.90	40.60	17.63
3800	1.410	-15.38	43.80	13.30	41.60	17.73



### Stand Alone - Tower USA

Date: 20/05/2003

Freq	SWR	RL	Z	X	R	PhaseAngle
3500	2.280	-8.173	19.10	0.000	18.90	0.000
3510	2.250	-8.299	19.30	0.000	19.30	0.000
3520	2.190	-8.565	19.70	0.000	19.70	0.000
3530	2.160	-8.705	20.10	0.000	20.10	0.000
3540	2.130	-8.849	20.50	0.000	20.50	0.000
3550	2.080	-9.103	21.00	0.000	20.90	0.000
3560	2.050	-9.262	21.60	0.000	21.60	0.000
3570	2.030	-9.372	22.00	0.000	22.00	0.000
3580	2.000	-9.542	22.20	0.000	22.50	0.000
3590	1.960	-9.780	23.00	0.000	22.90	0.000
3600	1.940	-9.904	23.50	0.000	23.60	0.000
3610	1.910	-10.10	24.10	0.000	24.30	0.000
3620	1.880	-10.30	24.90	0.000	24.70	0.000
3630	1.850	-10.51	25.50	0.000	25.50	0.000
3640	1.810	-10.80	26.10	0.000	26.00	0.000
3650	1.810	-10.80	26.80	0.000	26.70	0.000
3660	1.770	-11.12	27.30	0.000	27.50	0.000
3670	1.740	-11.37	28.20	0.000	28.20	0.000
3680	1.710	-11.63	29.00	0.000	29.00	0.000
3690	1.690	-11.82	29.80	2.400	29.80	4.605
3700	1.660	-12.11	30.80	3.400	30.40	6.382
3710	1.640	-12.31	31.40	5.000	31.10	9.134
3720	1.620	-12.52	32.40	6.600	31.70	11.76
3730	1.590	-12.85	33.10	7.200	32.50	12.49
3740	1.580	-12.96	34.10	8.200	33.20	13.87
3750	1.540	-13.45	35.10	9.400	33.90	15.50
3760	1.540	-13.45	35.80	9.500	34.60	15.35
3770	1.520	-13.71	36.80	10.00	35.40	15.78
3780	1.500	-13.98	37.80	10.80	36.20	16.61
3790	1.500	-13.98	38.90	11.30	37.00	16.98
3800	1.480	-14.26	39.90	12.10	37.90	17.71

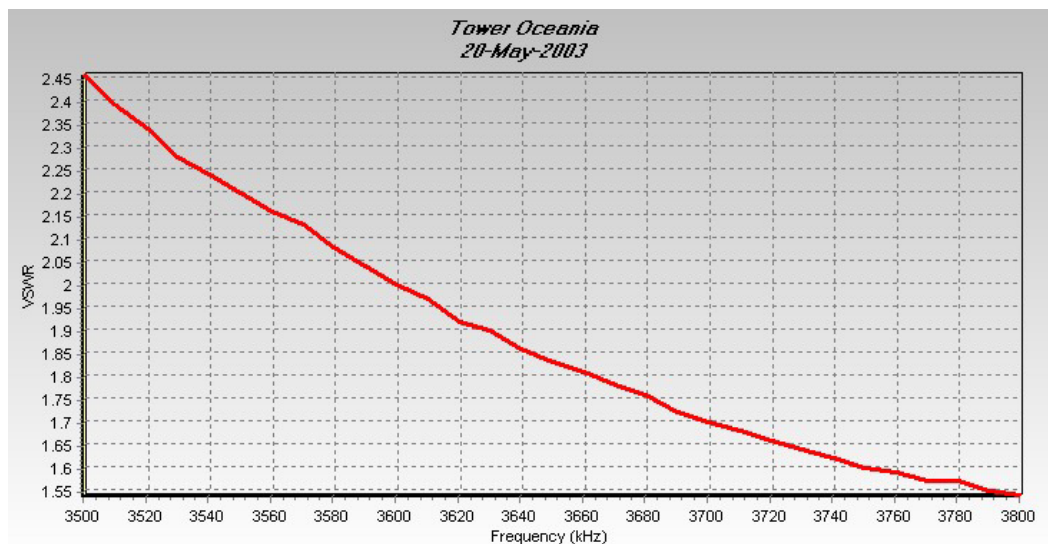




## Stand Alone - Tower Oceania

Date: 20/05/2003

Freq	SWR	RL	Z	X	R	PhaseAngle
3500	2.460	-7.494	18.00	0.000	17.90	0.000
3510	2.390	-7.744	18.40	0.000	18.60	0.000
3520	2.340	-7.933	19.30	0.000	19.10	0.000
3530	2.280	-8.173	19.80	0.000	19.50	0.000
3540	2.240	-8.342	20.80	0.000	20.30	0.000
3550	2.200	-8.519	21.10	0.000	21.10	0.000
3560	2.160	-8.705	21.90	0.000	21.70	0.000
3570	2.130	-8.849	22.80	0.000	22.60	0.000
3580	2.080	-9.103	23.30	0.000	23.30	0.000
3590	2.040	-9.317	24.30	0.000	24.50	0.000
3600	2.000	-9.542	25.30	3.100	25.10	7.041
3610	1.970	-9.720	26.10	3.900	25.80	8.597
3620	1.920	-10.03	26.90	5.600	26.50	11.93
3630	1.900	-10.16	27.90	5.700	27.10	11.88
3640	1.860	-10.44	28.80	7.500	27.80	15.10
3650	1.830	-10.65	29.80	9.000	28.50	17.53
3660	1.810	-10.80	30.90	9.400	29.20	17.85
3670	1.780	-11.04	31.90	10.80	30.00	19.80
3680	1.760	-11.20	32.80	11.20	30.80	19.98
3690	1.720	-11.54	34.00	12.00	31.80	20.68
3700	1.700	-11.73	34.80	13.20	32.40	22.17
3710	1.680	-11.91	36.00	13.60	33.50	22.10
3720	1.660	-12.11	37.30	14.40	34.40	22.72
3730	1.640	-12.31	38.60	14.50	35.30	22.33
3740	1.620	-12.52	39.50	15.50	36.20	23.18
3750	1.600	-12.74	40.60	16.20	37.30	23.48
3760	1.590	-12.85	41.70	16.40	38.50	23.07
3770	1.570	-13.08	43.10	17.20	39.30	23.64
3780	1.570	-13.08	44.10	17.90	40.30	23.95
3790	1.550	-13.32	45.20	18.10	41.40	23.62
3800	1.540	-13.45	46.50	18.60	42.80	23.49



### Stand Alone - Tower Africa

Date: 20/05/2003

Freq	SWR	RL	Z	X	R	PhaseAngle
3500	2.480	-7.426	18.10	0.000	17.80	0.000
3510	2.450	-7.529	18.10	0.000	18.10	0.000
3520	2.400	-7.707	18.40	0.000	18.50	0.000
3530	2.360	-7.856	19.10	0.000	18.80	0.000
3540	2.320	-8.011	19.40	0.000	19.30	0.000
3550	2.280	-8.173	19.70	0.000	19.50	0.000
3560	2.250	-8.299	20.10	0.000	20.10	0.000
3570	2.210	-8.474	20.30	0.000	20.80	0.000
3580	2.160	-8.705	21.00	0.000	21.20	0.000
3590	2.130	-8.849	21.70	0.000	21.60	0.000
3600	2.090	-9.051	22.10	0.000	22.00	0.000
3610	2.080	-9.103	22.20	0.000	22.70	0.000
3620	2.040	-9.317	23.40	0.000	23.10	0.000
3630	1.990	-9.601	23.60	0.000	23.90	0.000
3640	1.970	-9.720	24.50	0.000	24.20	0.000
3650	1.950	-9.842	25.10	0.000	25.10	0.000
3660	1.920	-10.03	25.70	0.000	25.50	0.000
3670	1.870	-10.37	26.00	0.000	26.30	0.000
3680	1.840	-10.58	27.10	3.200	26.80	6.810
3690	1.830	-10.65	27.60	2.300	27.50	4.781
3700	1.800	-10.88	28.50	5.300	28.00	10.72
3710	1.780	-11.04	29.00	6.300	28.60	12.42
3720	1.750	-11.29	29.80	6.800	29.30	13.07
3730	1.730	-11.46	30.60	6.900	30.00	12.95
3740	1.700	-11.73	31.60	7.400	30.50	13.64
3750	1.690	-11.82	32.20	8.700	31.20	15.58
3760	1.660	-12.11	33.10	9.100	31.60	16.07
3770	1.650	-12.21	33.90	10.00	32.40	17.15
3780	1.620	-12.52	34.70	10.40	33.00	17.49
3790	1.610	-12.63	35.60	11.50	33.80	18.79
3800	1.590	-12.85	36.50	11.60	34.70	18.49

