



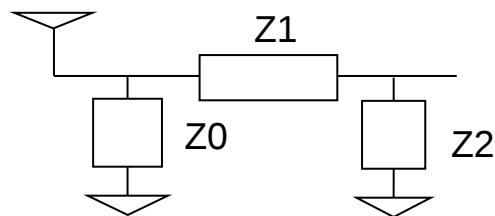
APPENDIX J

: ANTENNA SPECIFICATION

2. Test Result

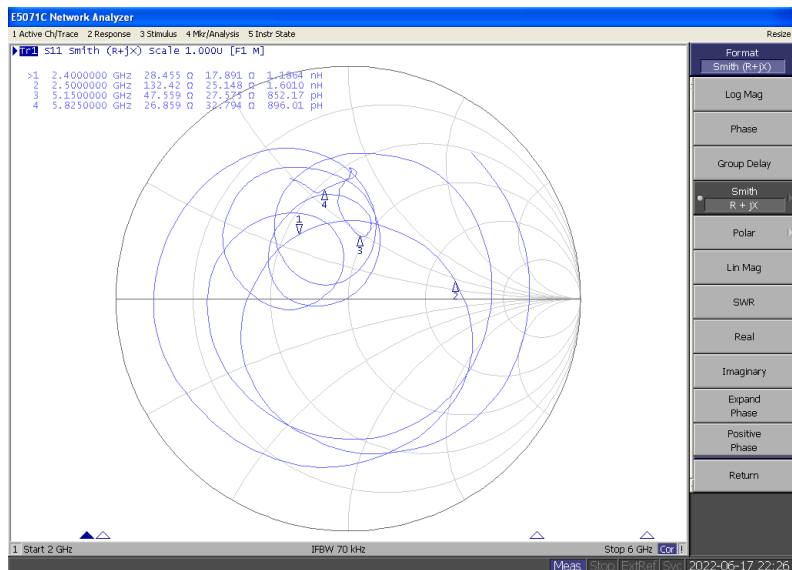
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• Antenna & matching

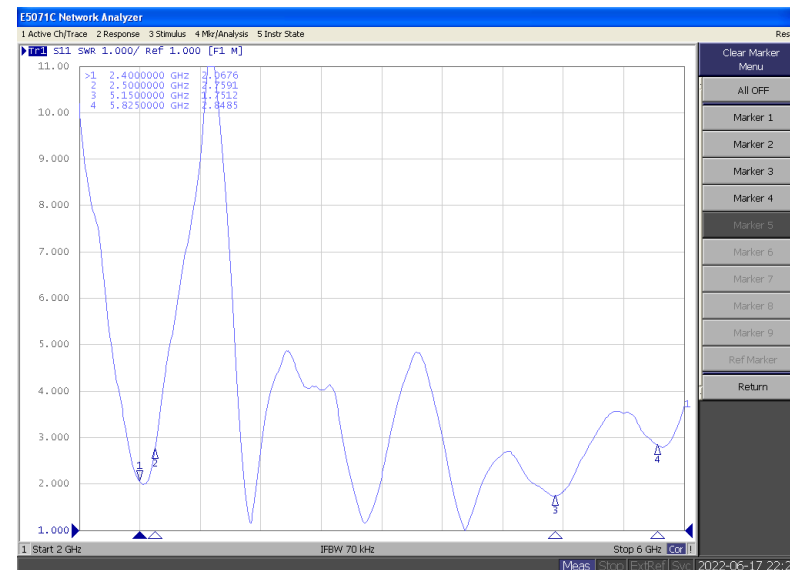


Ant	Sample Ant		
	Z0	Z1	Z2
Matching value			

• Smith Chart & VSWR



Smith chart



VSWR

2. Test Result

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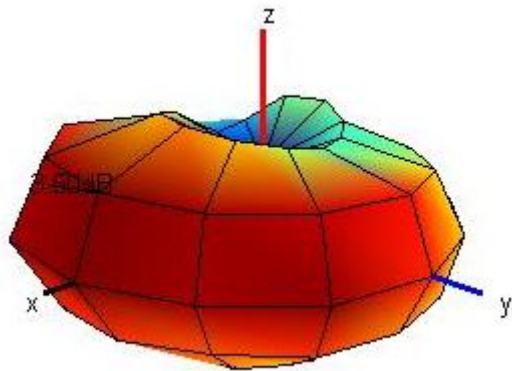
- Passive Efficiency

	1	2	3	4	5	6	7	8	9	10	11	12
Frequency [MHz]	2400	2420	2440	2460	2480	2500	5150	5250	5350	5490	5725	5825
Efficiency [dB]	-2.41	-2.48	-2.27	-2.21	-2.11	-2.27	-2.70	-2.39	-2.41	-2.57	-3.28	-3.15
Efficiency [%]	57.4	56.5	59.2	60.1	61.5	59.3	53.7	57.7	57.4	55.4	47.0	48.5
TRG _g [dB]	-2.61	-2.70	-2.50	-2.44	-2.35	-2.50	-3.32	-2.80	-2.75	-2.89	-3.74	-3.76
Gain _{g Peak} [dB]	3.26	3.40	3.49	3.66	3.50	3.49	2.70	3.10	3.55	3.67	2.98	3.23
Gain _{g Min} [dB]	-23.00	-25.79	-27.05	-23.72	-30.07	-30.19	-30.74	-29.75	-29.90	-33.10	-26.95	-25.21
TRG _e [dB]	-15.96	-15.63	-15.29	-15.04	-14.80	-15.03	-11.52	-12.84	-13.61	-13.99	-13.19	-11.93
Gain _{e Peak} [dB]	-8.63	-8.09	-7.38	-7.36	-7.87	-8.71	-4.72	-5.00	-5.21	-5.50	-5.48	-4.58
Gain _{e Min} [dB]	-40.65	-40.63	-37.56	-38.32	-34.93	-36.46	-28.80	-26.46	-35.38	-34.61	-34.26	-31.68
UHRG [dB]	-4.97	-4.92	-4.66	-4.54	-4.45	-4.66	-5.83	-5.51	-5.69	-5.67	-6.13	-5.96
UHRG/TRG [%]	55.6	57.0	57.7	58.5	58.4	57.6	48.7	48.7	47.1	49.0	51.8	52.4
H-Plane	-0.47	-0.54	-0.58	-0.68	-0.74	-0.76	-1.16	-0.53	-0.32	-0.35	-1.18	-1.01
E1-Plane, AVG [dB]	-2.95	-3.04	-2.87	-2.80	-2.82	-2.95	-3.90	-3.58	-3.52	-3.72	-4.70	-4.72
E2-Plane, AVG [dB]	-5.35	-5.60	-5.29	-5.20	-4.96	-5.28	-6.81	-6.52	-6.55	-6.46	-7.01	-6.83
Peak Gain [dB]	3.29	3.44	3.50	3.69	3.55	3.56	3.11	3.36	3.67	3.70	3.06	3.33
Directivity [dB]	5.71	5.92	5.78	5.90	5.66	5.82	5.82	5.75	6.08	6.27	6.34	6.48
Minimum Gain [dB]	-17.13	-16.58	-15.60	-15.76	-16.08	-16.90	-18.51	-21.00	-25.97	-30.78	-25.23	-23.10
Test Condition	FS											
Antenna Type												
Average Efficiency	-2.51 dB		56.13 %									

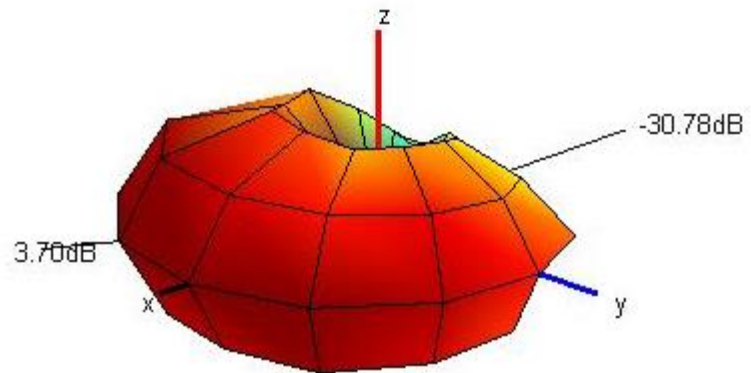
2. Test Result

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- Radiation Pattern



2.44GHz



5.49GHz

