APPENDIX J

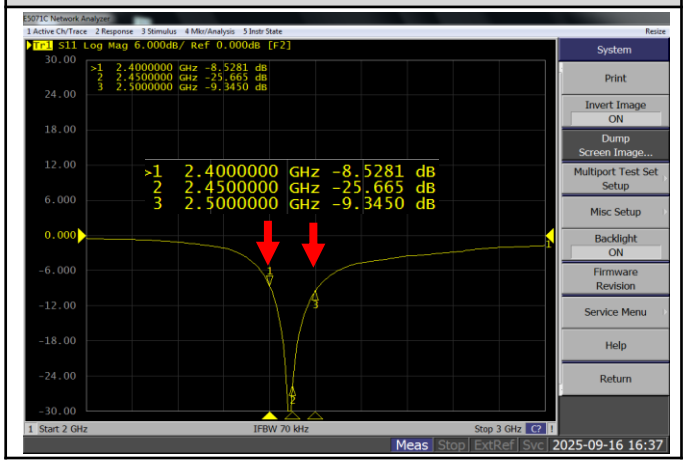
: ANTENNA SPECIFICATION

1.1 Test Result for Rev01

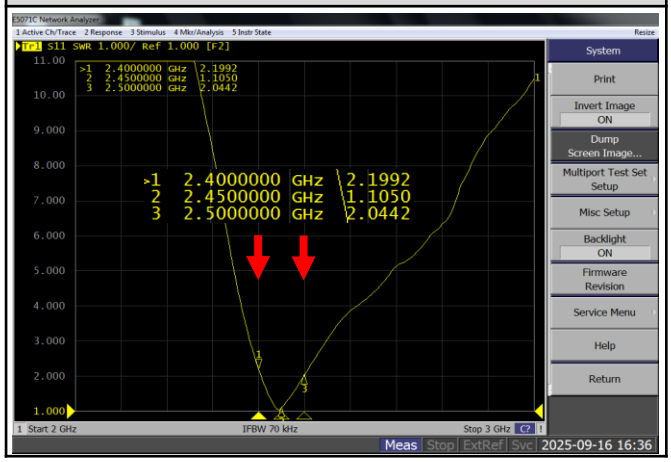
	Peak [dBi]	Average [dBi]	Efficiency [%]
2400MHz	**1.75**	**-3.84**	**41.30**
2425MHz	**2.43**	**-3.16**	**48.40**
2445MHz	**2.76**	**-2.88**	**51.50**
2465MHz	**2.46**	**-3.06**	**49.40**
2485MHz	**1.49**	**-3.82**	**41.50**
2445MHz	**Max peak gain(dBi)**		**2.76**

➢ Passive Data

S11



VSWR



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Frequency [MHz]	**2400**	**2405**	**2410**	**2415**	**2420**	**2425**	**2430**	**2435**	**2440**	**2445**	**2450**	**2455**	**2460**	**2465**	**2470**	**2475**	**2480**	**2485**
Efficiency [dB]	**-3.84**	**-3.63**	**-3.59**	**-3.45**	**-3.41**	**-3.16**	**-3.00**	**-2.93**	**-3.08**	**-2.88**	**-3.08**	**-2.98**	**-3.06**	**-3.06**	**-2.53**	**-3.00**	**-3.20**	**-3.82**
Efficiency [%]	**41.3**	**43.4**	**43.8**	**45.2**	**45.6**	**48.4**	**50.1**	**51.0**	**49.2**	**51.5**	**49.2**	**50.4**	**49.4**	**49.4**	**55.9**	**50.2**	**47.9**	**41.5**
TRG_θ [dB]	-4.61	-4.41	-4.38	-4.21	-4.21	-3.99	-3.80	-3.75	-3.92	-3.71	-3.89	-3.82	-3.95	-3.91	-3.33	-3.87	-4.07	-4.73
TRG_φ [dB]	-11.76	-11.48	-11.33	-11.37	-11.19	-10.75	-10.73	-10.54	-10.65	-10.49	-10.77	-10.53	-10.39	-10.57	-10.24	-10.40	-10.59	-11.06
UHRG [dB]	-9.60	-9.34	-9.41	-9.26	-9.20	-9.00	-8.72	-8.71	-8.96	-8.66	-8.92	-8.84	-8.86	-8.77	-8.55	-8.70	-8.96	-9.38
UHRG/TRG [%]	26.6	26.9	26.1	26.2	26.4	26.1	26.8	26.4	25.8	26.5	26.1	25.9	26.3	26.9	25.0	26.9	26.5	27.8
H-Plane	-6.38	-5.85	-5.95	-5.72	-5.64	-5.28	-4.87	-4.96	-5.21	-4.64	-4.68	-4.77	-4.66	-4.72	-4.45	-4.50	-4.70	-5.31
E1-Plane, AVG [dB]	-5.48	-5.14	-5.18	-5.00	-4.92	-4.84	-4.52	-4.40	-4.57	-4.47	-4.70	-4.39	-4.67	-4.56	-1.35	-4.59	-4.88	-5.42
E2-Plane, AVG [dB]	-3.28	-3.32	-3.26	-3.10	-3.29	-2.89	-2.58	-2.64	-2.60	-2.70	-2.57	-2.61	-2.69	-2.69	-2.42	-2.55	-2.75	-3.33
Peak Gain [dB]	1.75	1.65	1.82	1.95	2.21	2.43	2.70	2.69	2.60	**2.76**	2.62	2.64	2.59	2.46	2.73	2.73	2.42	1.49
Directivity [dB]	5.59	5.28	5.40	5.40	5.62	5.58	5.70	5.62	5.69	5.64	5.70	5.62	5.65	5.53	5.26	5.73	5.62	5.31
Minimum Gain [dB]	-18.19	-17.59	-19.28	-21.02	-18.73	-17.66	-21.34	-18.81	-18.10	-19.39	-19.80	-20.55	-18.12	-19.54	-17.41	-23.04	-19.19	-22.02
Average Efficiency	**-3.27 dB**		**47.14 %**					**Peak Gain : 2.76dBi**										