

UHF ANTENNA

Model: TH-808B



1. GENERAL DESCRIPTION

P/N
TH808B-BNC(M)

1.1 Electrical Properties

Parameter	Description
Frequency Band	808±13MHz
Nominal impedance	50ohm
Polarization	Vertical
V.S.W.R	2.5:1

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Antenna Cover	TPE
Touch Type	Screw Type
Connector Type	BNC 180° (Male)
Antenna Dimensions	255 mm±5
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C

A		B		C		D	
SIGN	DATE	DESCRIPTION		APPROVER			

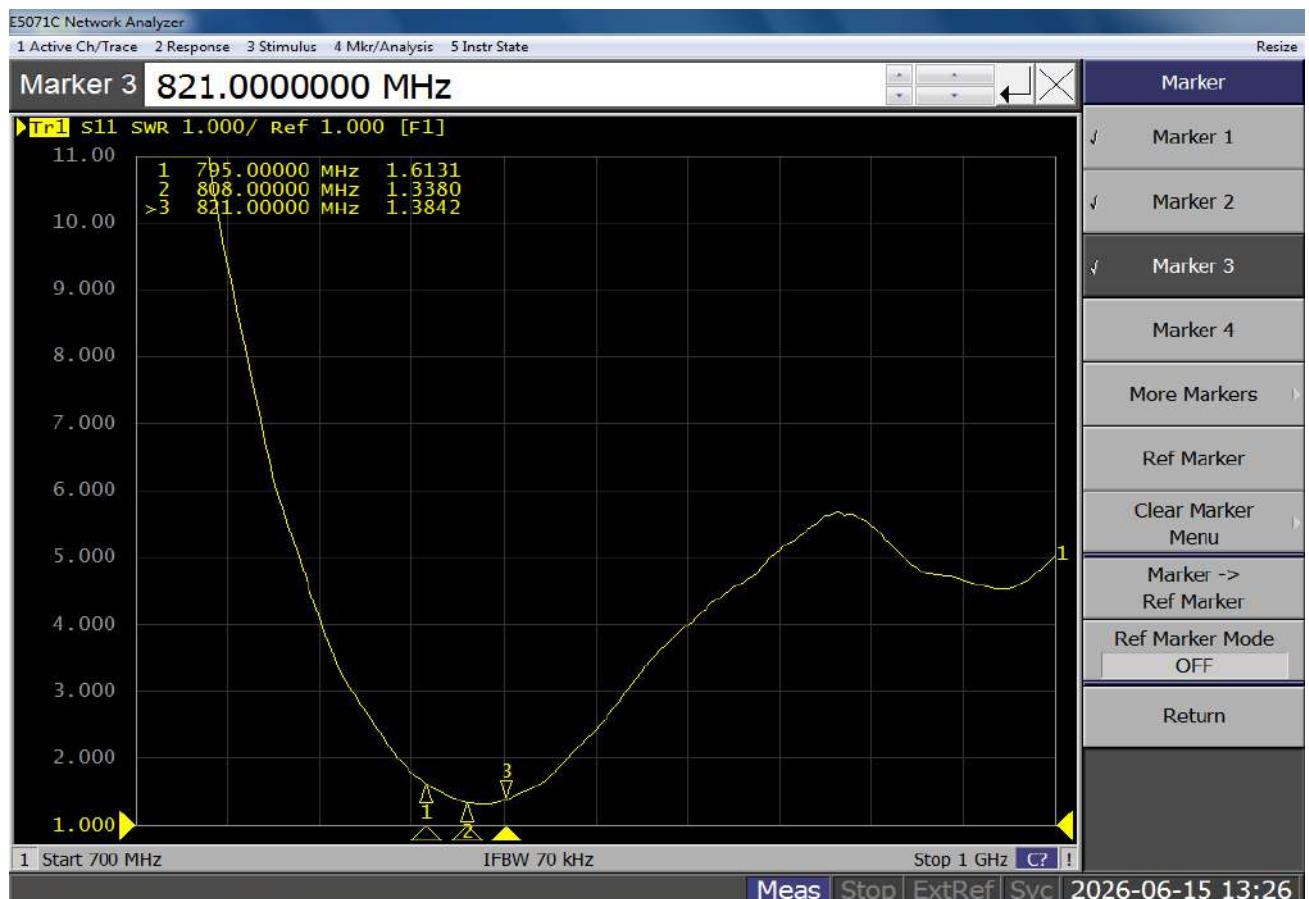
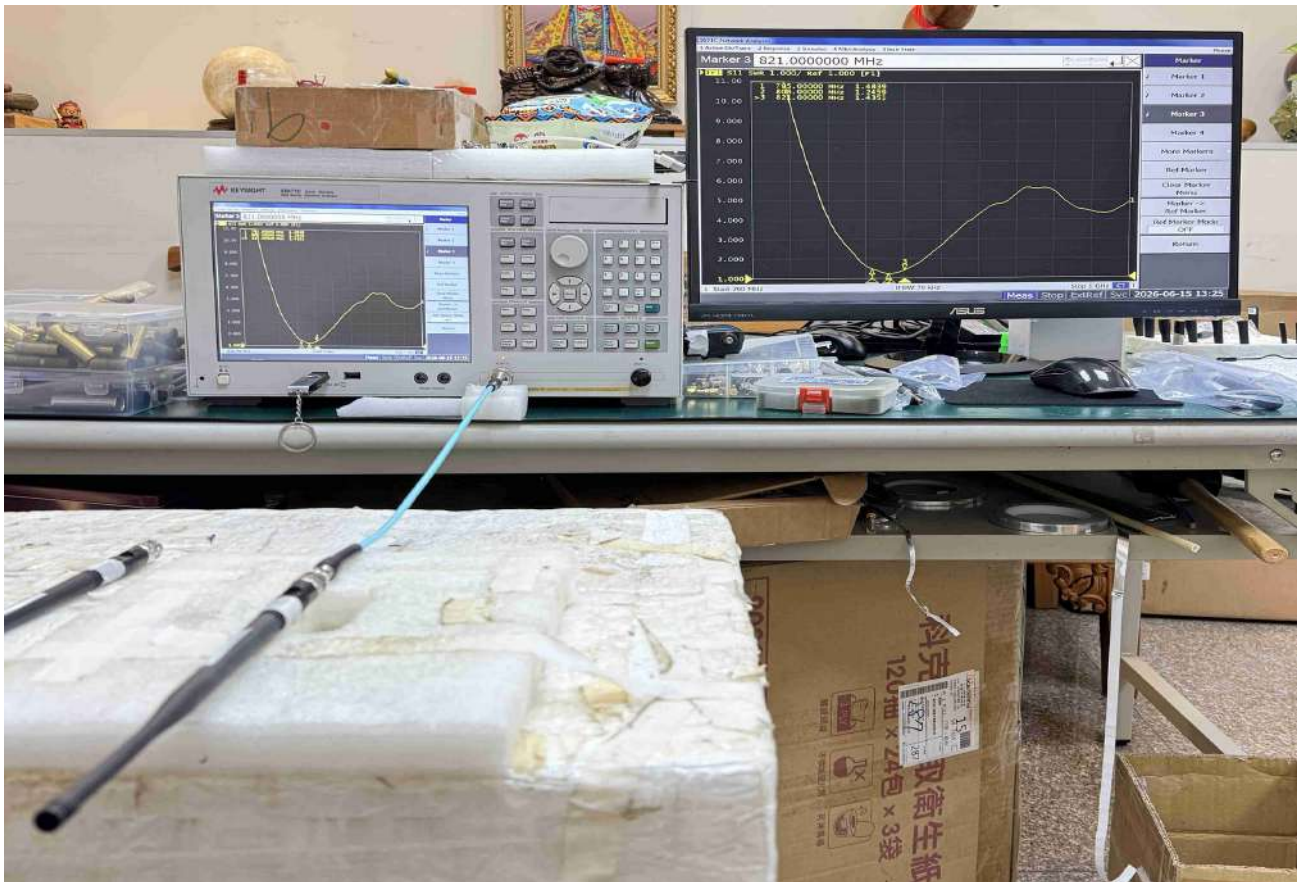
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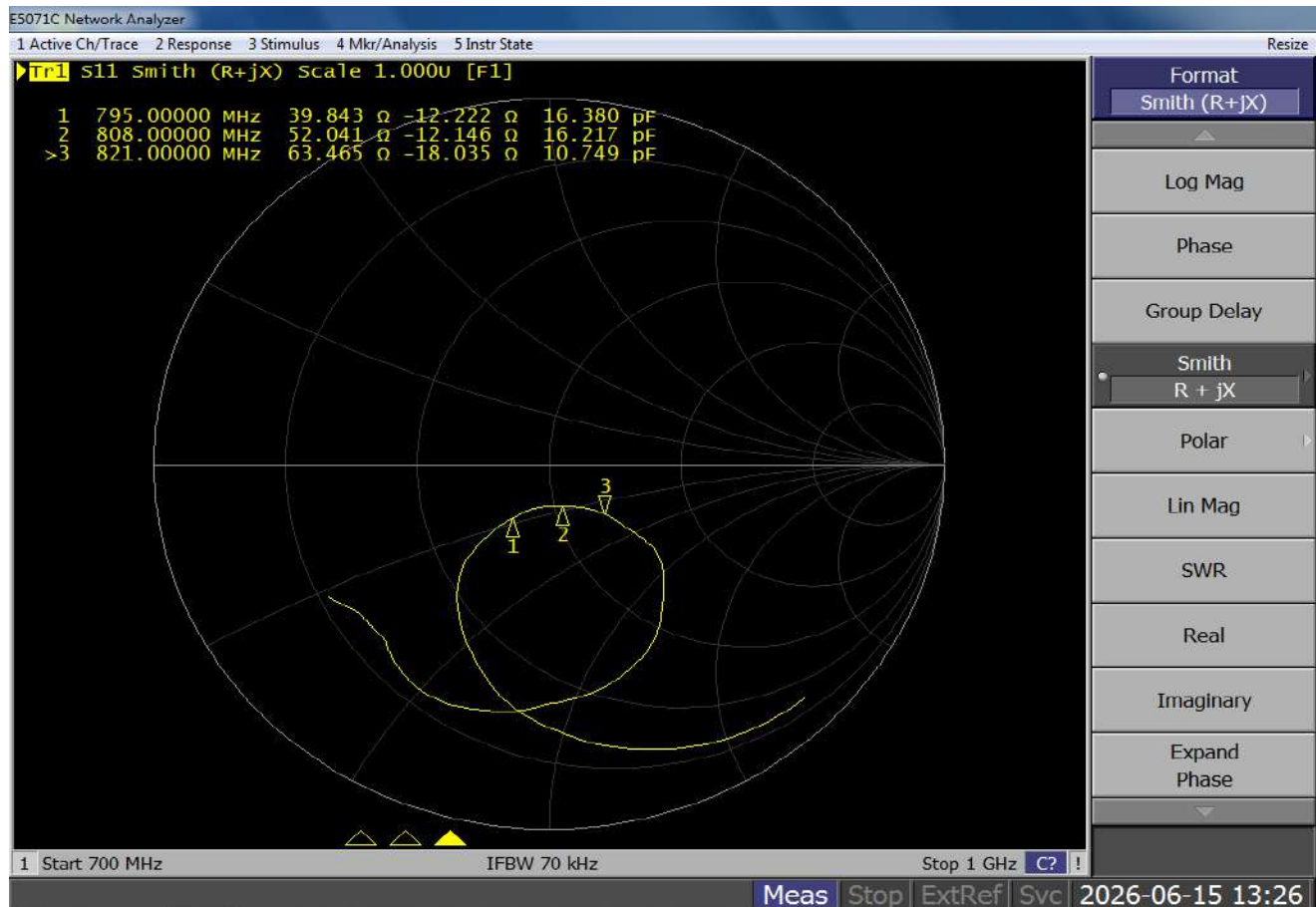
255±5
Ø13±1

NO	Name	Material	Finish	QTY	UNIT	APPROVED BY:	DRAWN BY :	TITLE.: 808MHz External Antenna with BNC(M) Connector	
4	BNC(M)	Brass	Ni Plating	1	mm	DATE: 2026.05.21		BJTEK NAVIGATION,INC.	
3	Hinge_Base	PC+PBT	Black	1		REV A			PART NO.:TH808B-BMC(M)
2	Hinge_Top	ABS	Black	1					
1	Housing	TPE	Black	1					
						David	Danny		

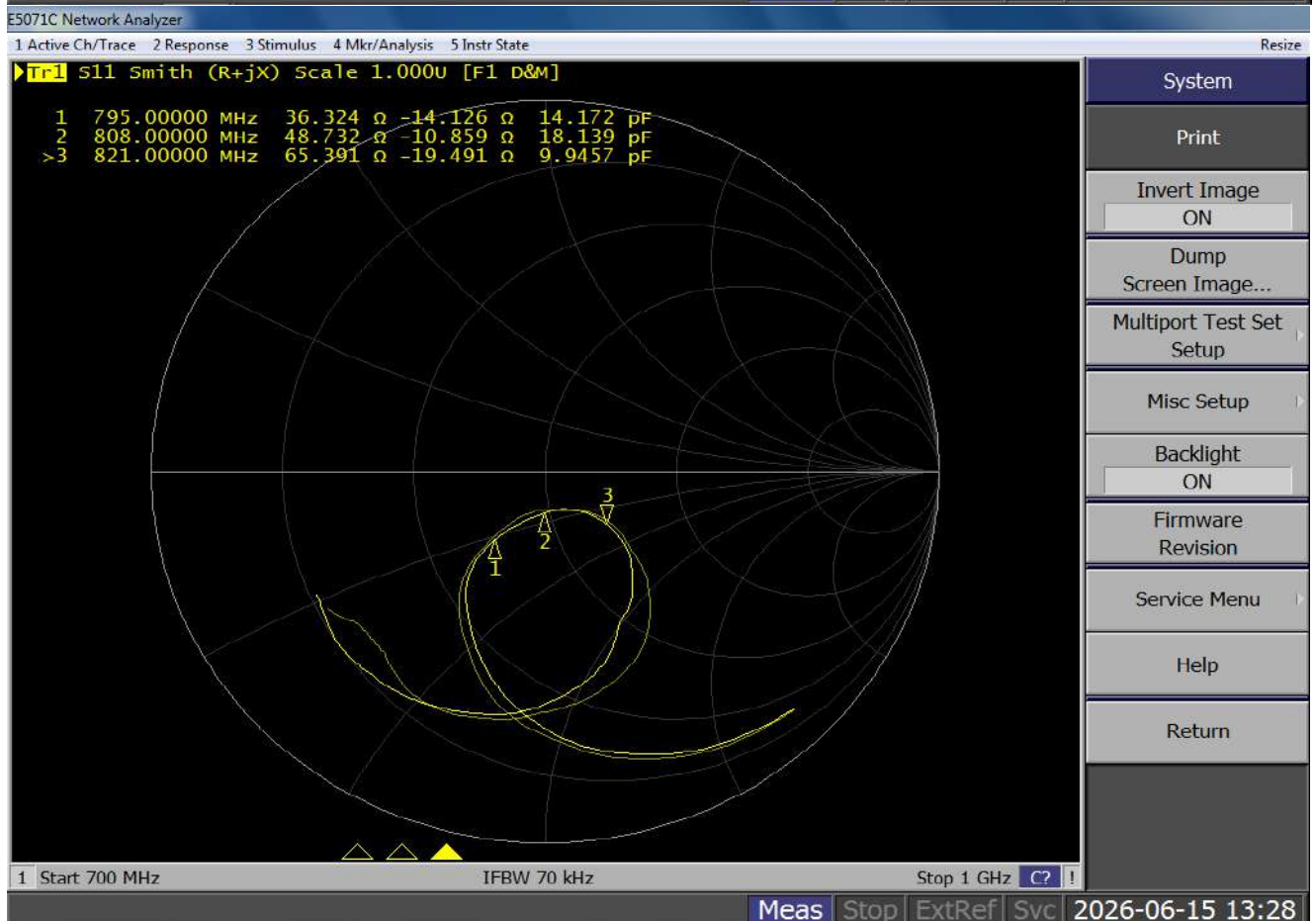
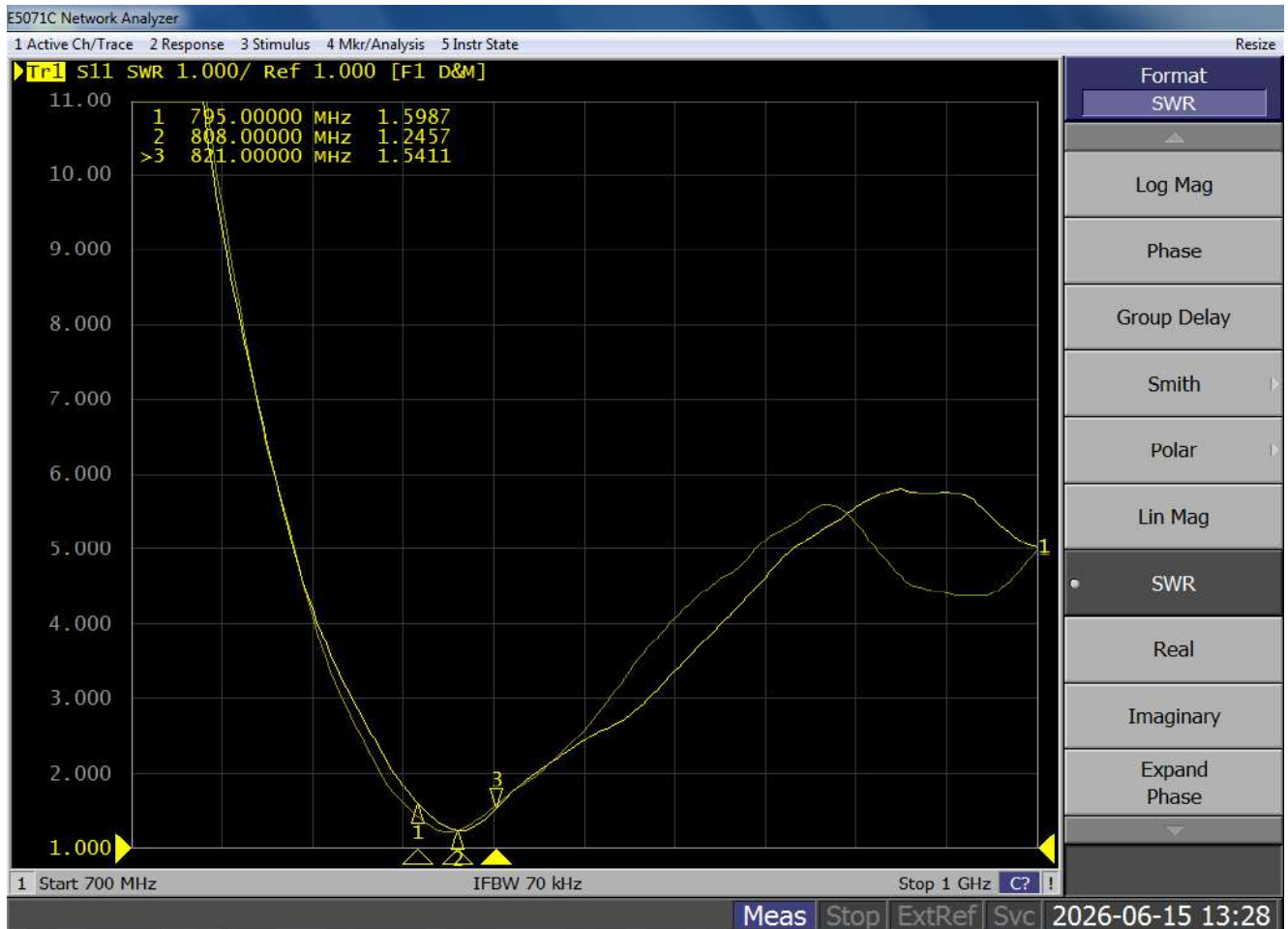
SIGN	DATE	DESCRIPTION	APPROVER
			
			
			

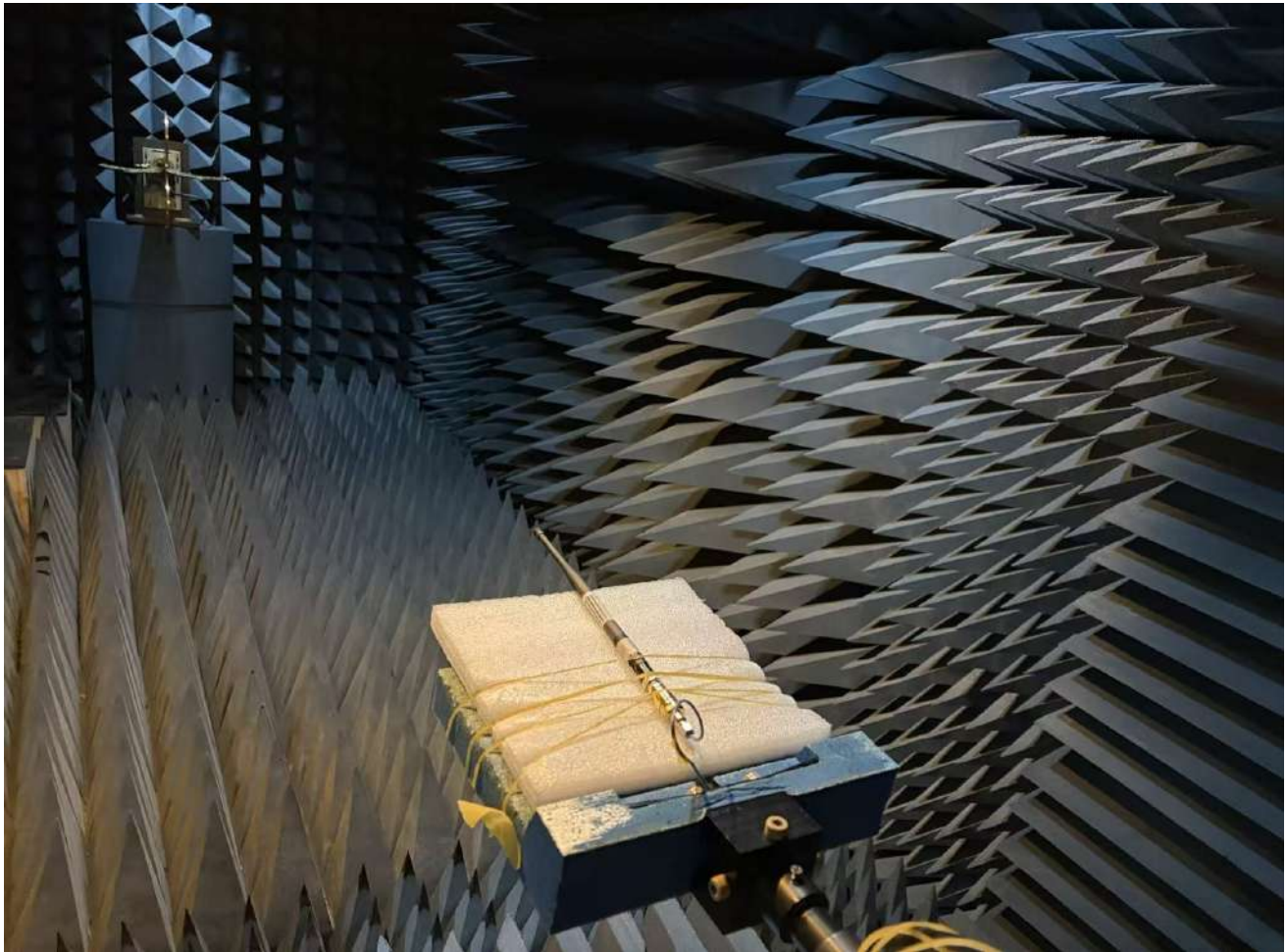
3. Return Loss, V.S.W.R. and Smith Chart







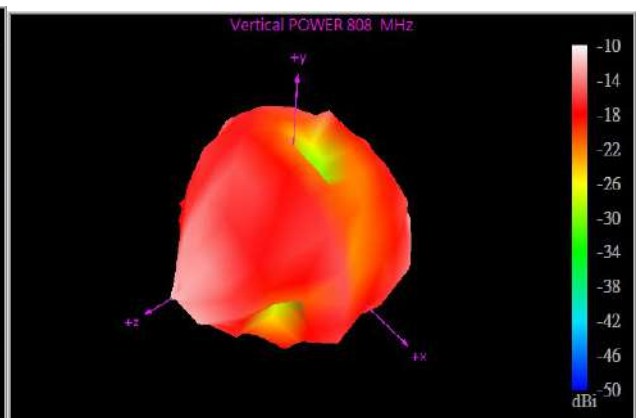
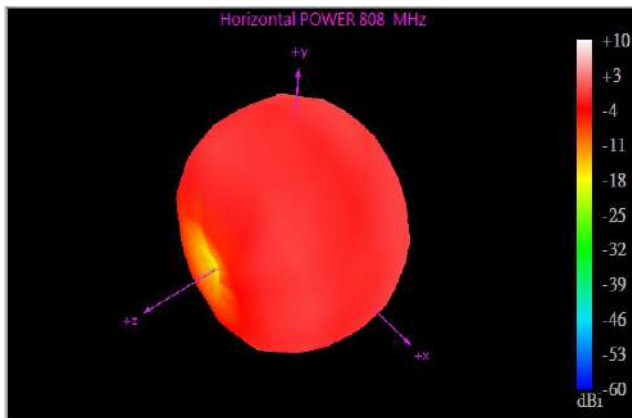
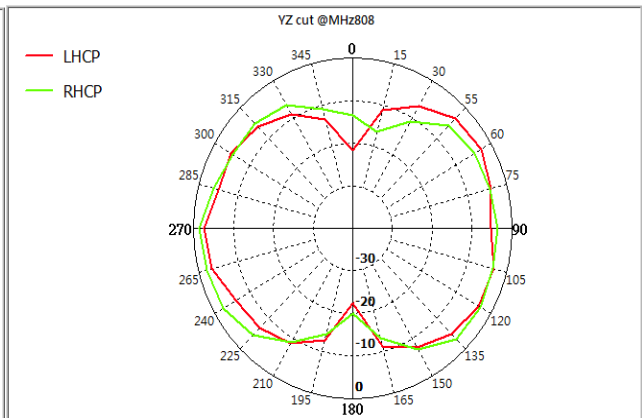
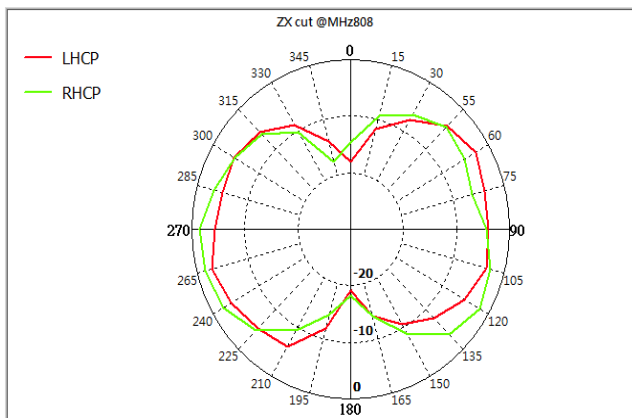
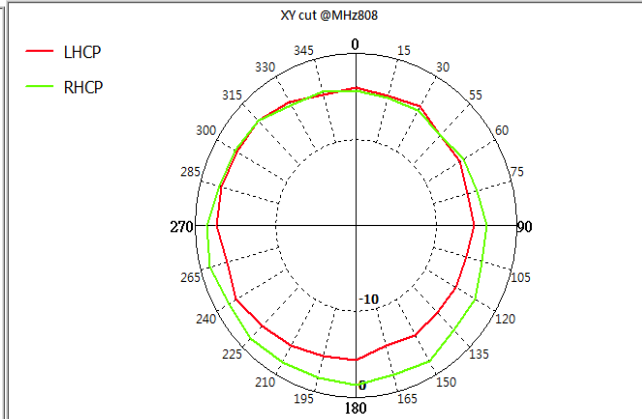
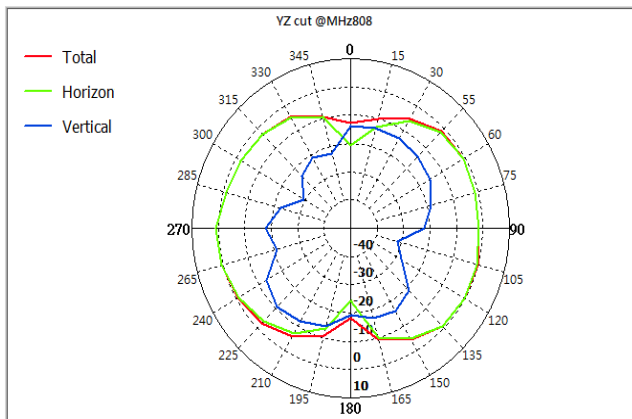
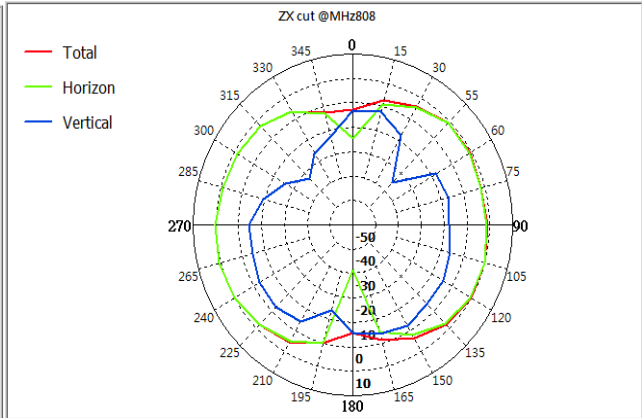
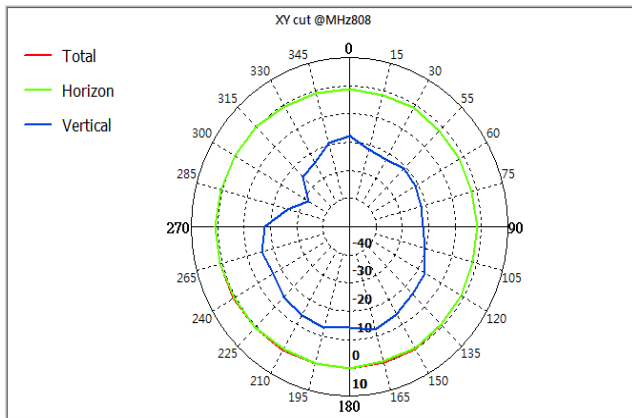


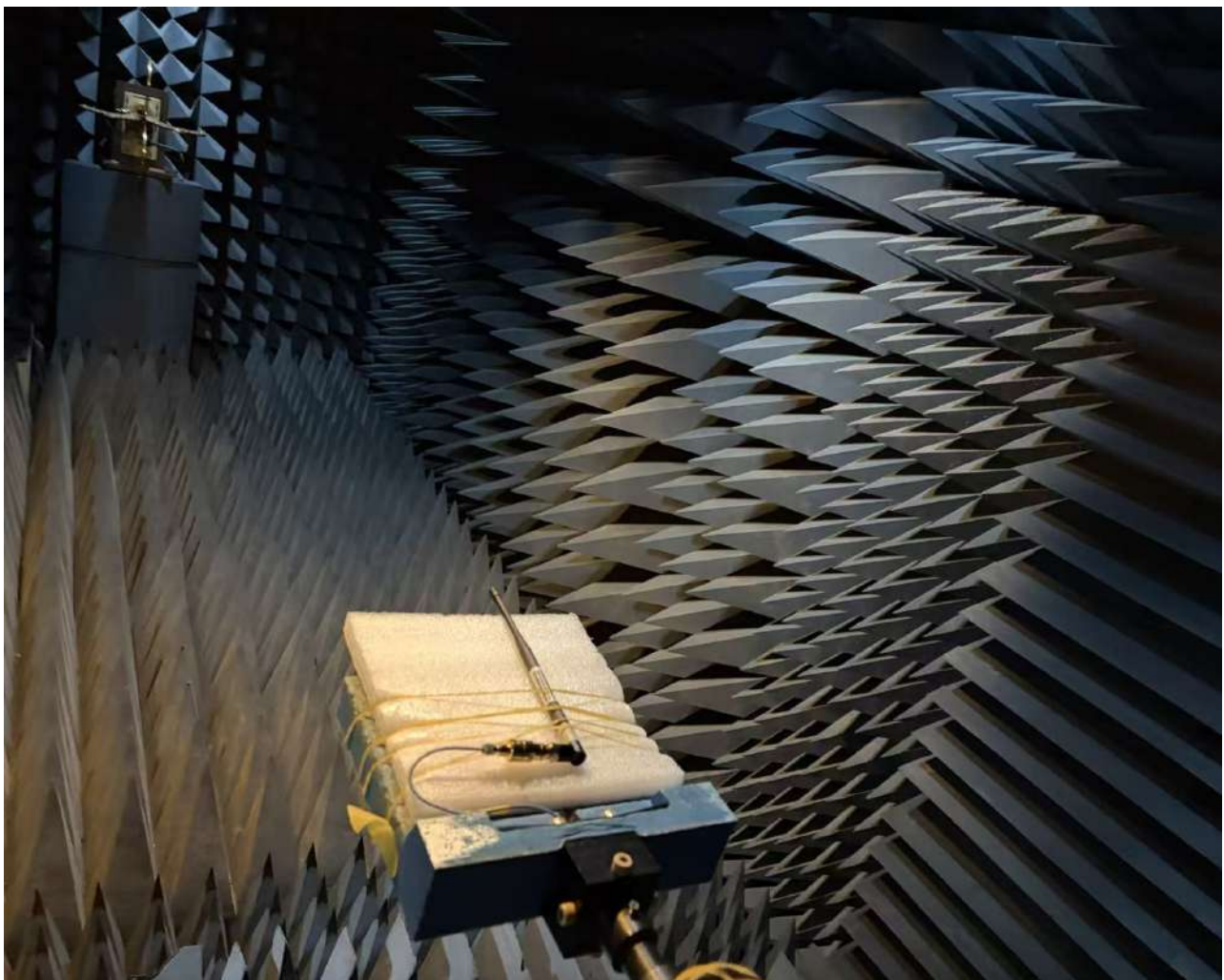
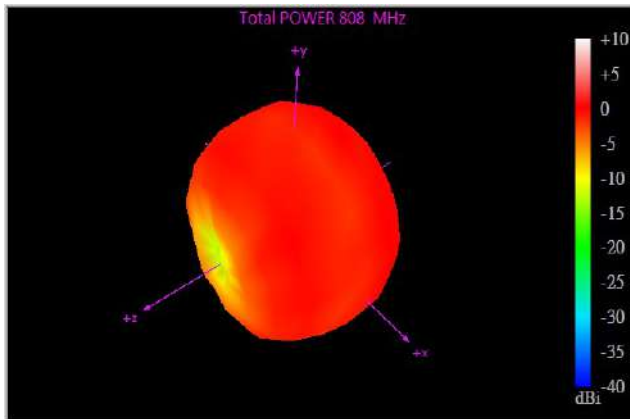
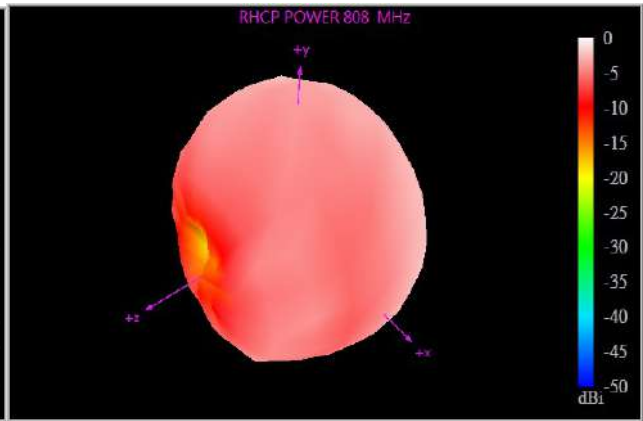
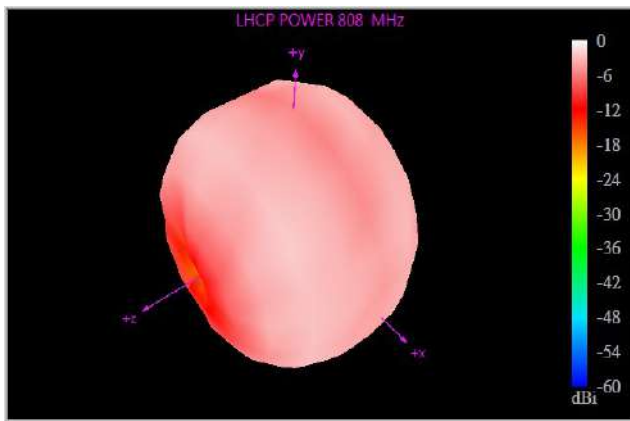


3D Total

Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
780 MHz	-5.55	-4.98	-2.24	59.64	0.53	-2.24
785 MHz	-5.37	-4.75	-2.04	62.54	0.74	-2.04
788 MHz	-5.25	-4.55	-1.88	64.93	0.90	-1.88
790 MHz	-5.21	-4.56	-1.86	65.11	1.00	-1.86
800 MHz	-6.78	-6.03	-3.38	45.95	-0.66	-3.38
804 MHz	-5.93	-5.21	-2.54	55.68	0.35	-2.54
808 MHz	-5.28	-4.43	-1.82	65.74	1.01	-1.82
812 MHz	-5.48	-4.56	-1.98	63.35	0.96	-1.98
815 MHz	-6.12	-5.19	-2.62	54.70	0.16	-2.62
820 MHz	-5.79	-4.71	-2.20	60.21	0.99	-2.20
825 MHz	-6.31	-5.15	-2.68	53.94	0.31	-2.68
828 MHz	-6.44	-5.17	-2.75	53.11	0.54	-2.75
830 MHz	-6.50	-5.18	-2.78	52.75	0.42	-2.78

808Mhz:





3D Total

Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
780 MHz	-5.77	-4.76	-2.23	59.91	1.13	-2.23
785 MHz	-5.53	-4.57	-2.01	62.95	1.21	-2.01
788 MHz	-5.30	-4.33	-1.78	66.44	1.19	-1.78
790 MHz	-5.29	-4.36	-1.79	66.22	1.30	-1.79
800 MHz	-6.74	-5.88	-3.28	47.03	-0.37	-3.28
804 MHz	-5.93	-5.10	-2.49	56.42	0.35	-2.49
808 MHz	-5.18	-4.34	-1.73	67.16	1.06	-1.73
812 MHz	-5.30	-4.51	-1.87	64.96	1.04	-1.87
815 MHz	-5.89	-5.07	-2.45	56.89	0.60	-2.45
820 MHz	-5.37	-4.58	-1.95	63.85	0.95	-1.95
825 MHz	-5.78	-4.99	-2.36	58.11	0.57	-2.36
828 MHz	-5.89	-5.13	-2.48	56.50	0.50	-2.48
830 MHz	-5.82	-5.05	-2.41	57.43	0.39	-2.41

808MHz:

