深圳市安特通讯科技有限公司

ANT Communication Technology（Shenzhen） Co., LTD.

HUACHUANG TECHNOLOGY LTD

Antenna Test Report

ANT Communication Technology (Shenzhen) Co., LTD.

address：701, Building A, No. 10, Jiangfu Road, Xinzhuang Community,

MatianStreet, Guangming District, Shenzhen

M/N：LW010-CT

Tester : Hu Lin

Approval : Liu Feng

Date : 2024 / 11/ 25

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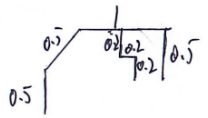
ANT Communication Technology（Shenzhen） Co., LTD.

1. Device Profile

2. LORA Test

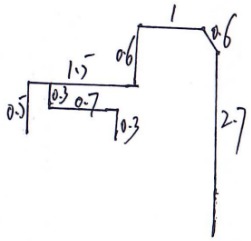
3. BT Test

4. GPS Test



Unit: cm

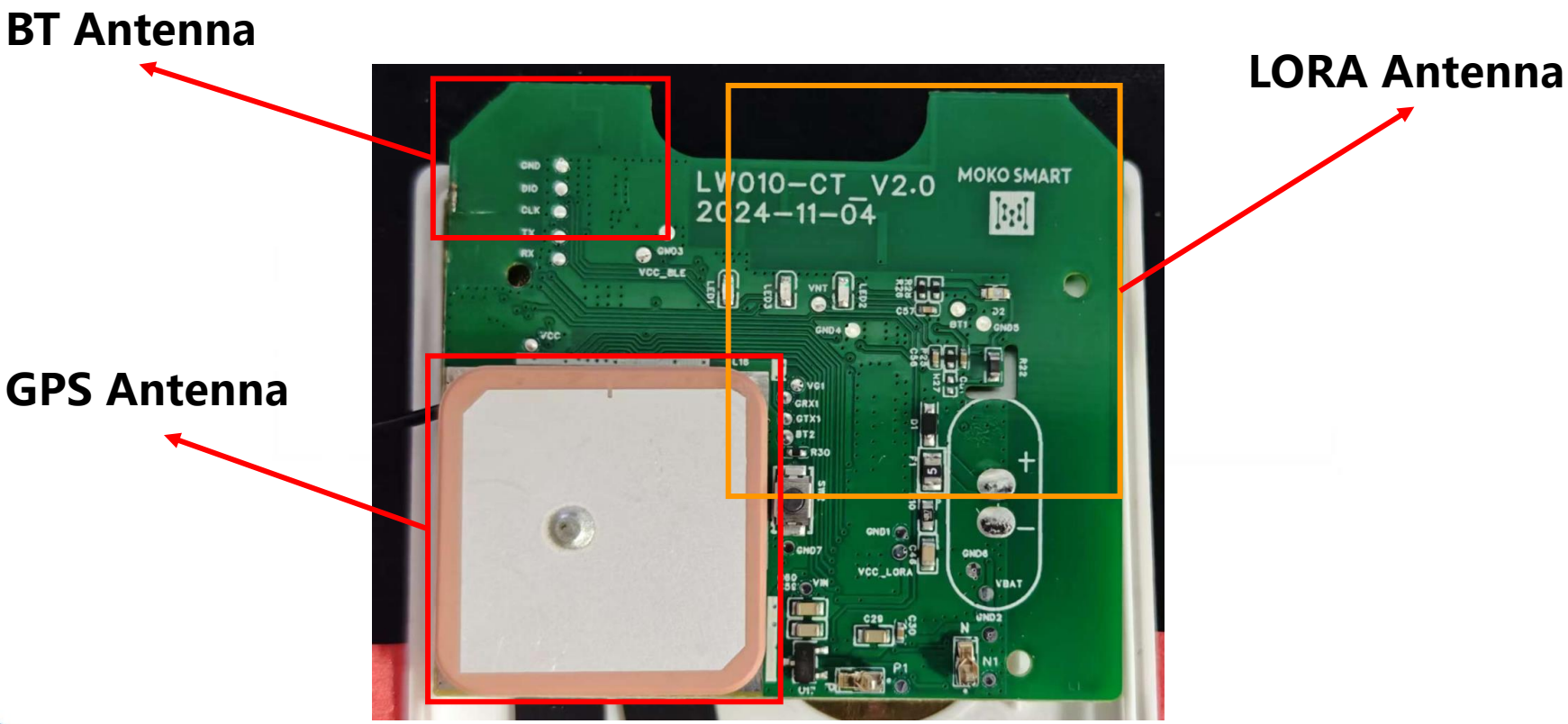
0.5+0.5+1+0.2+0.2+0.2+0.5=3.1cm



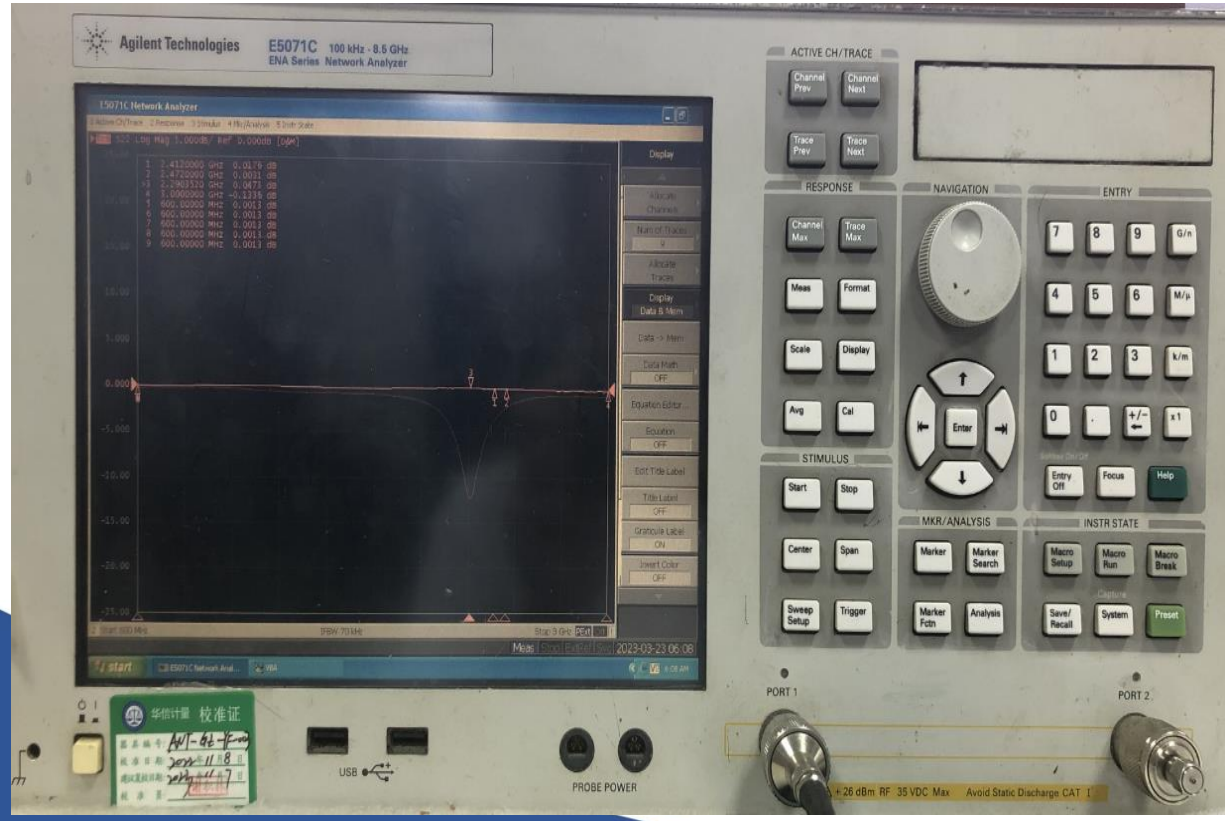
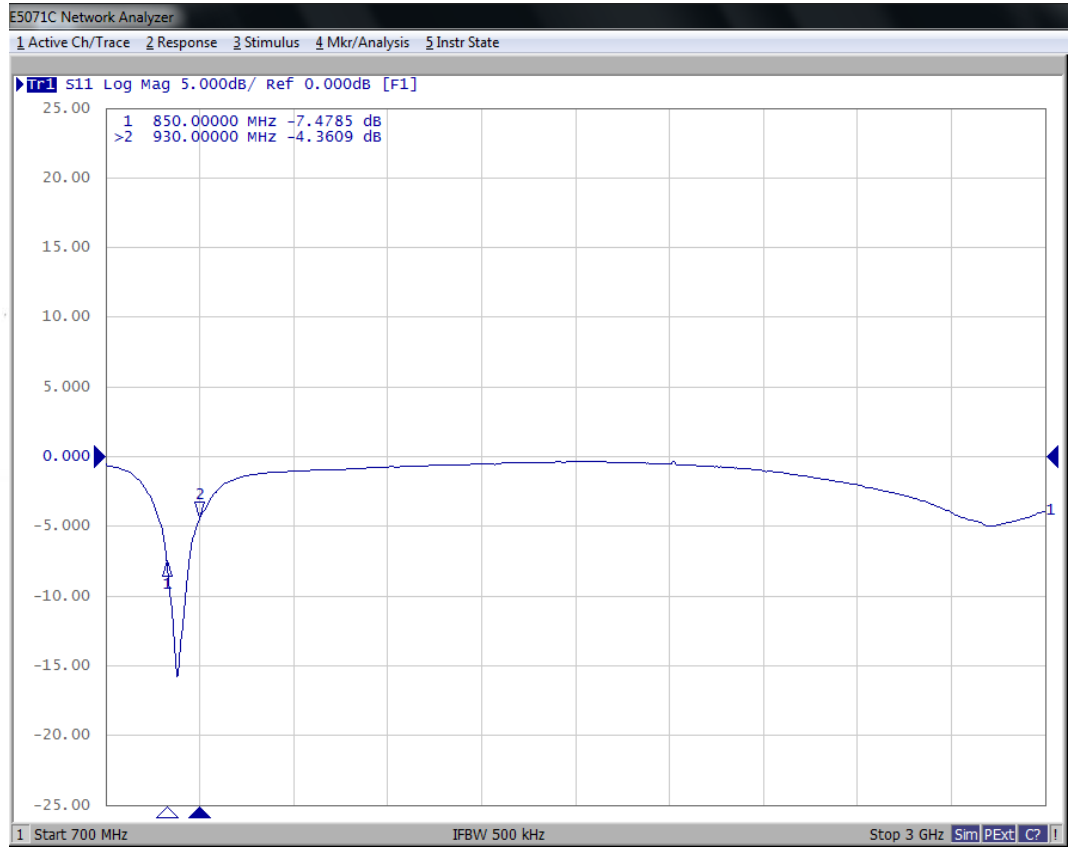
Unit: cm

0.5+1.5+0.3+0.7+0.3+0.6+1+0.6+2.7=8.2cm

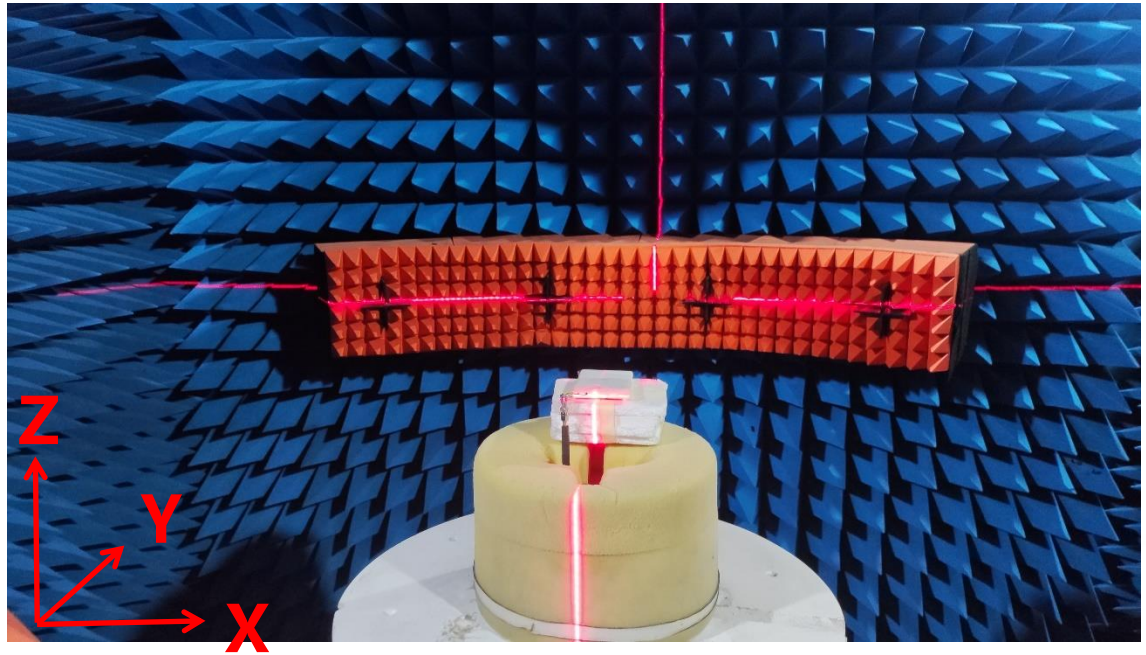
1. Device Profile

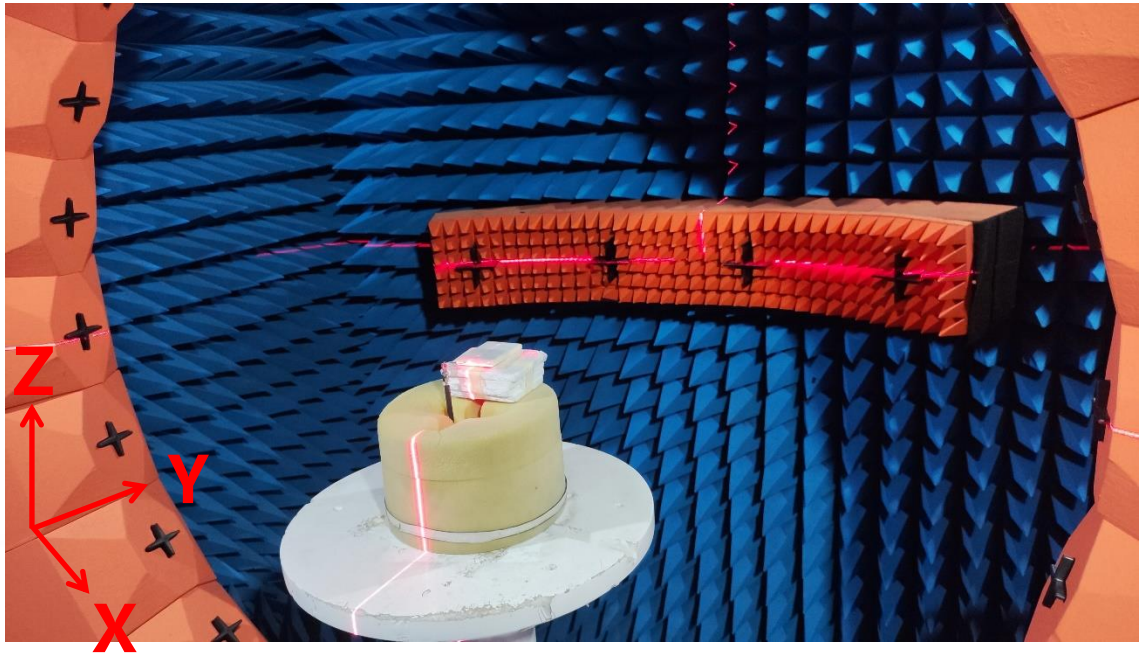


2. LORA Test

Agilent E5071C	S-Parameter Test
	

Antenna Passive Test





Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
850	-3.74	42.27	-3.14
860	-3.1	48.98	-2.76
870	-2.75	53.09	-3.24
880	-2.6	54.95	-3.01
890	-2.93	50.93	-3.19
900	-2.99	50.23	-2.26
910	-3.6	43.65	-2.61
920	-4.03	39.54	-2.15
930	-4.79	33.19	-3.11

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2D-Etotal (850/930Mhz)		
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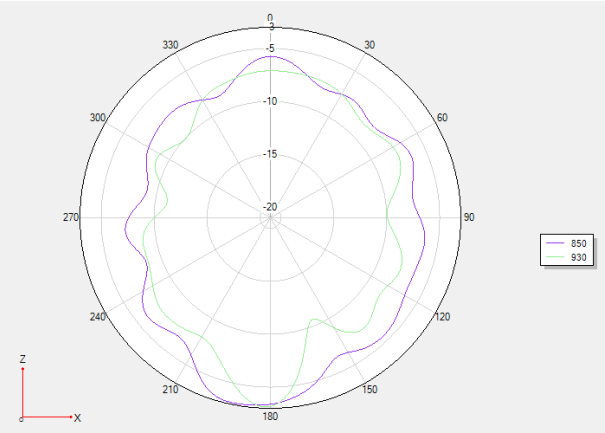
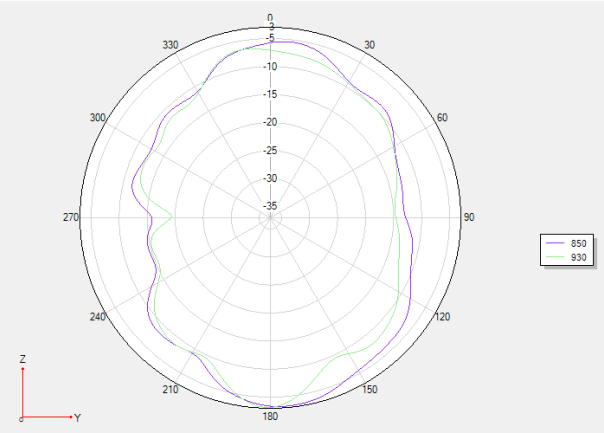
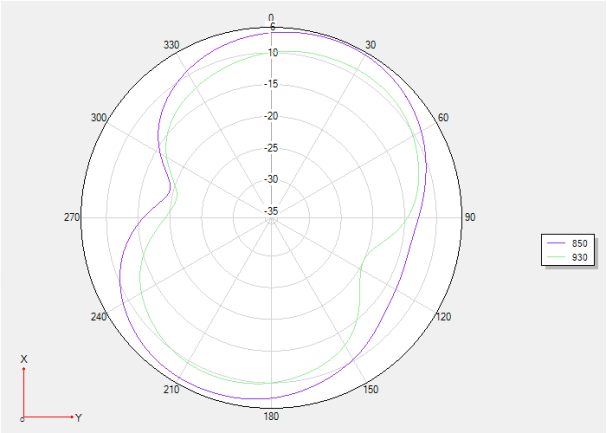
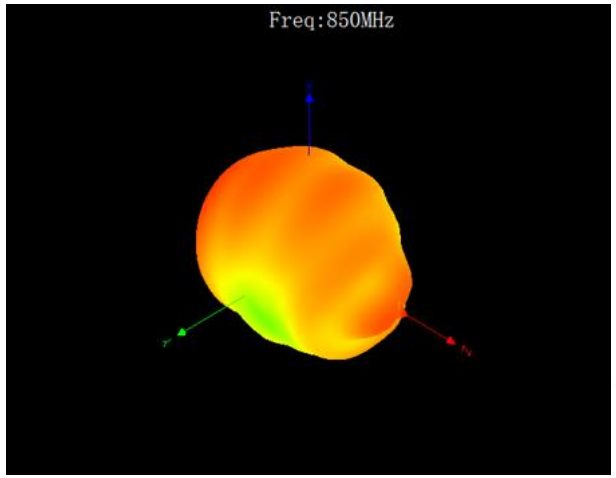
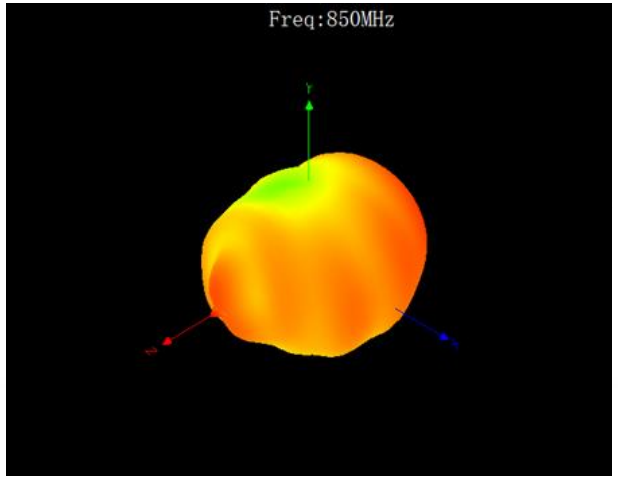
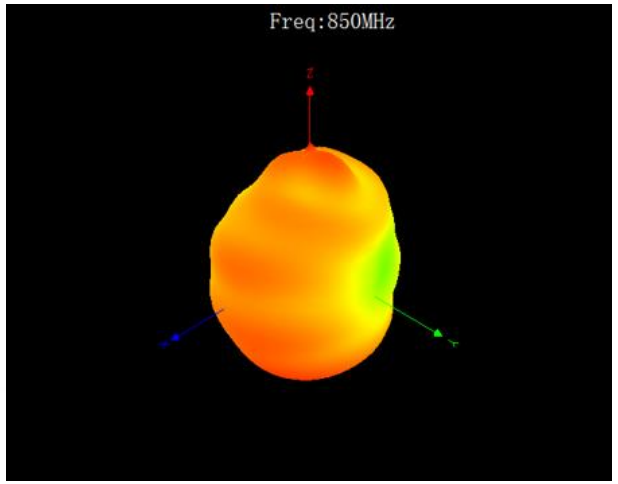
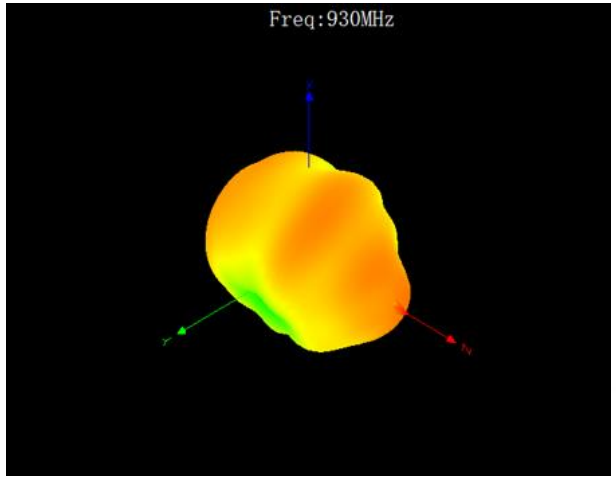
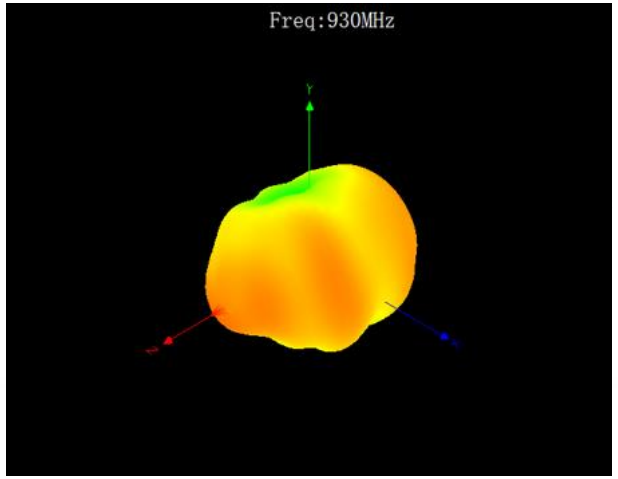
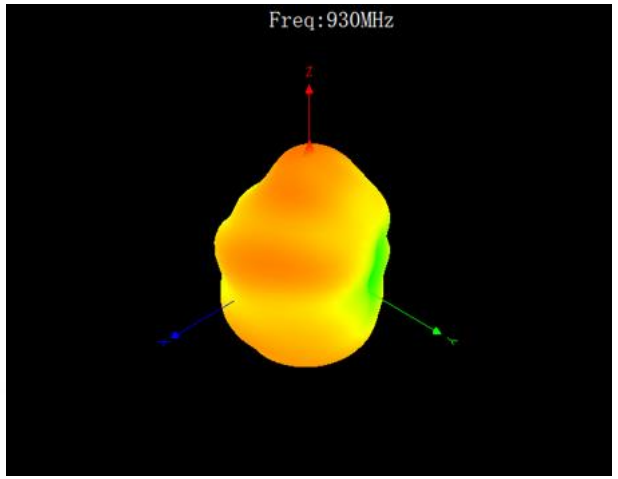
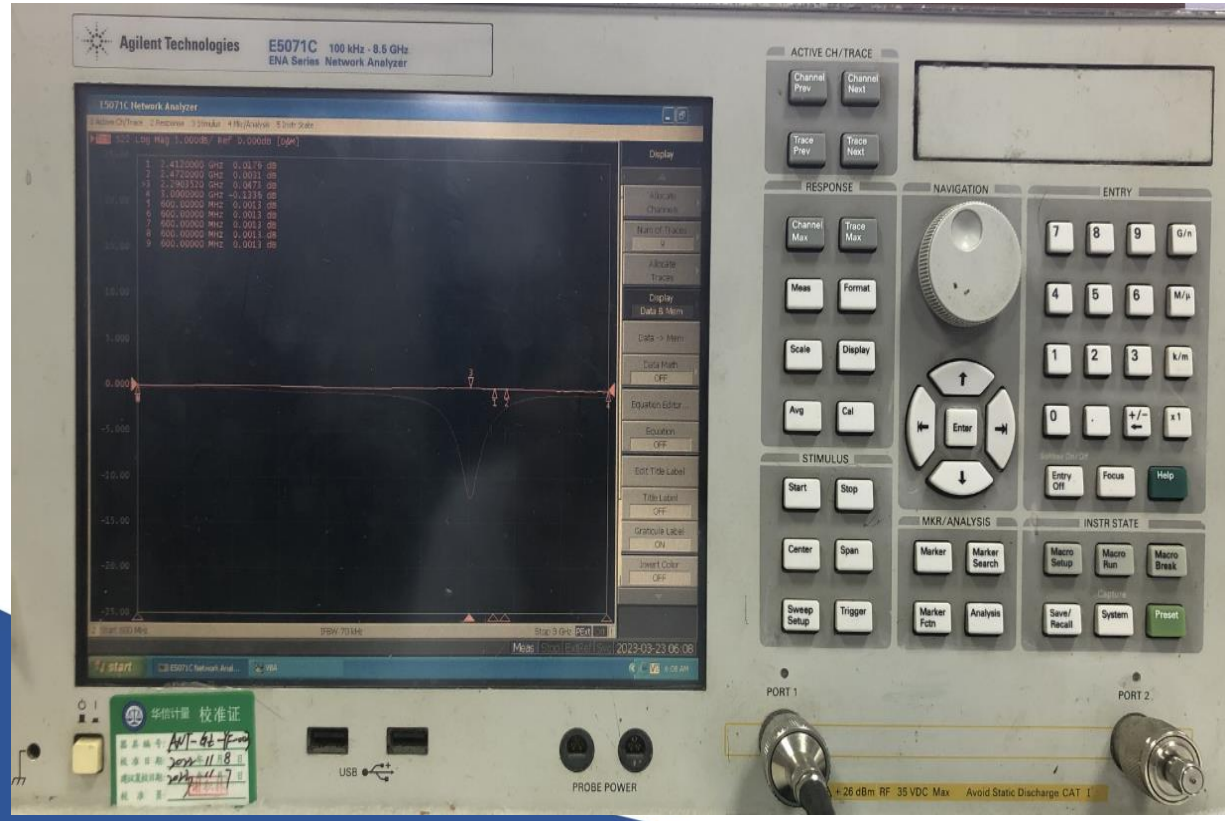
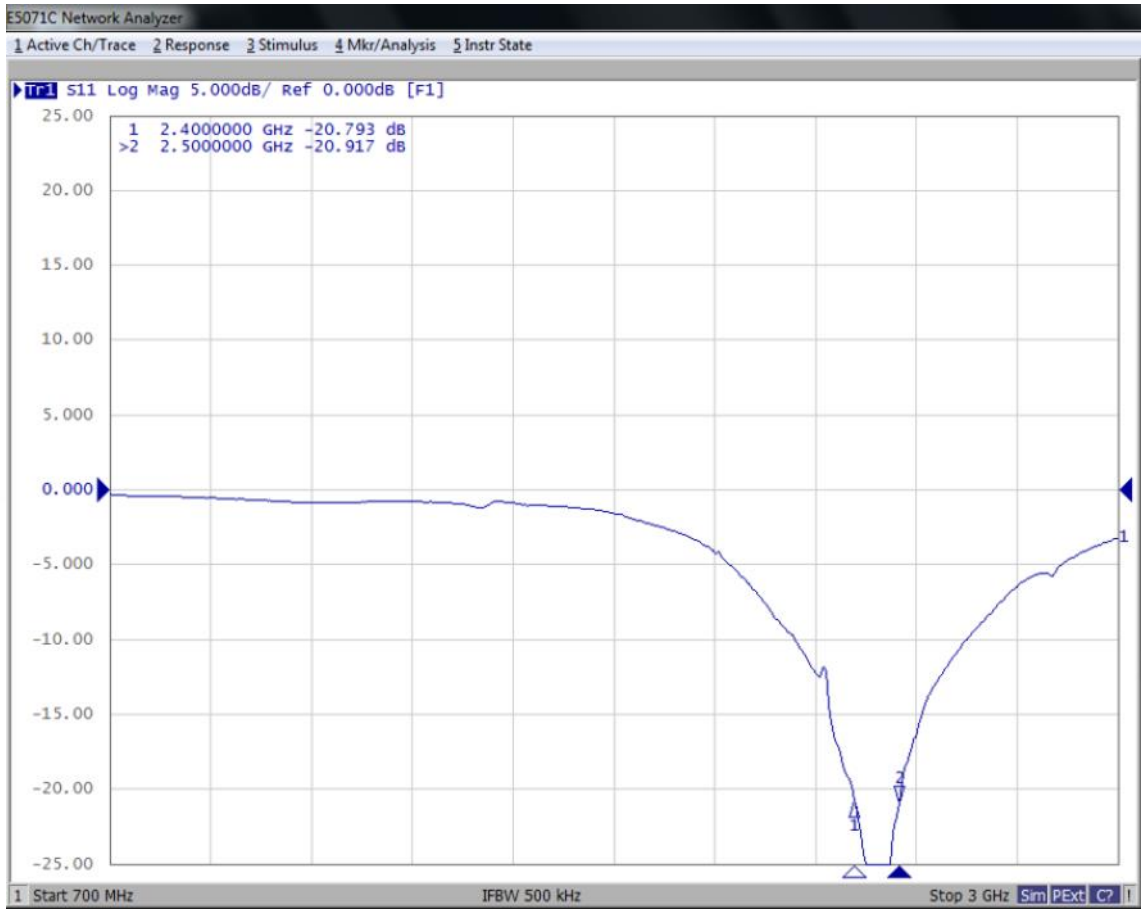
		

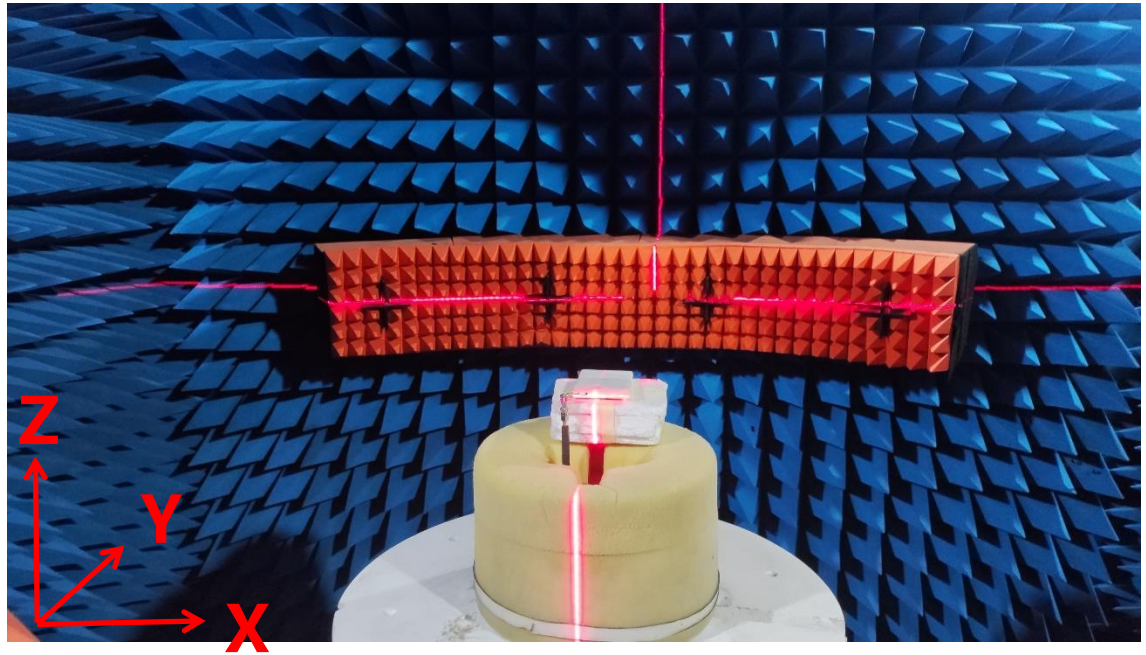
3D-Etotal (850Mhz)		
		

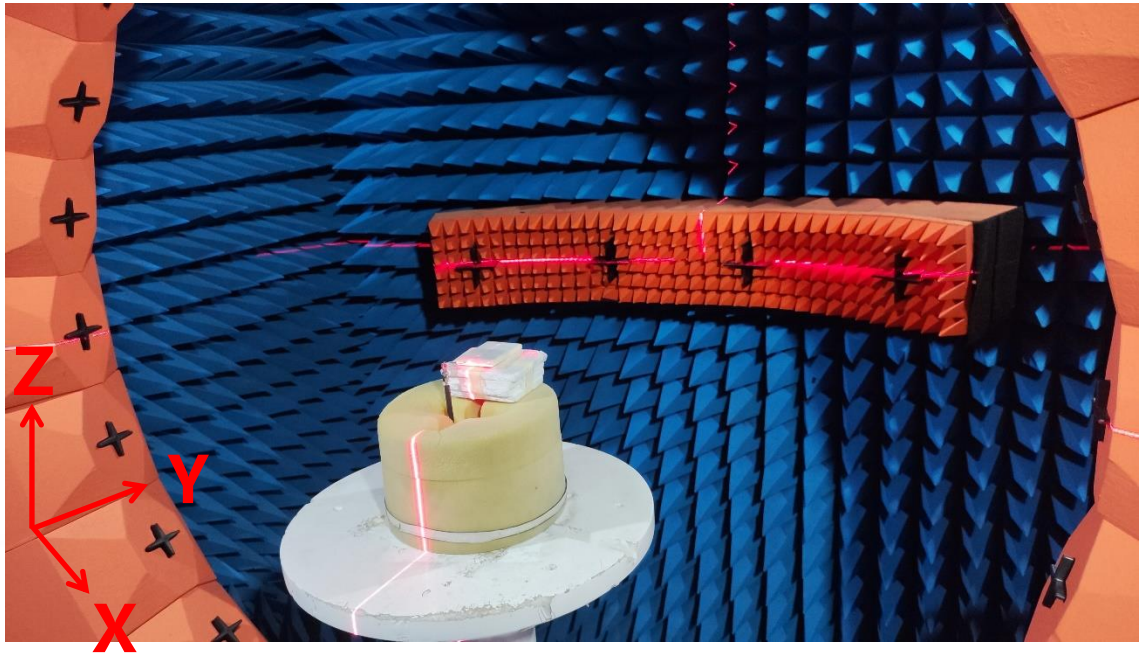
3D-Etotal (930Mhz)		
		

3. BT Test

Agilent E5071C	S-Parameter Test
	

Antenna Passive Test





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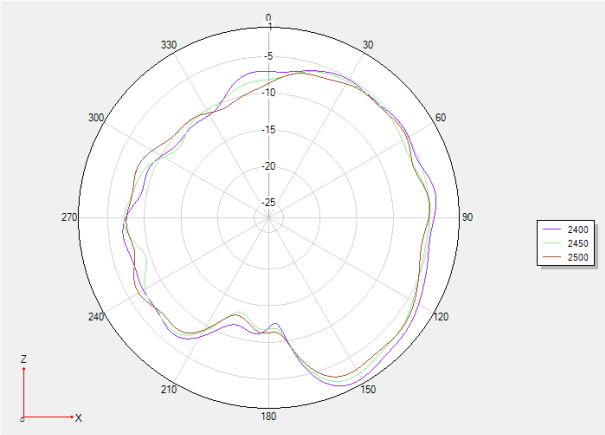
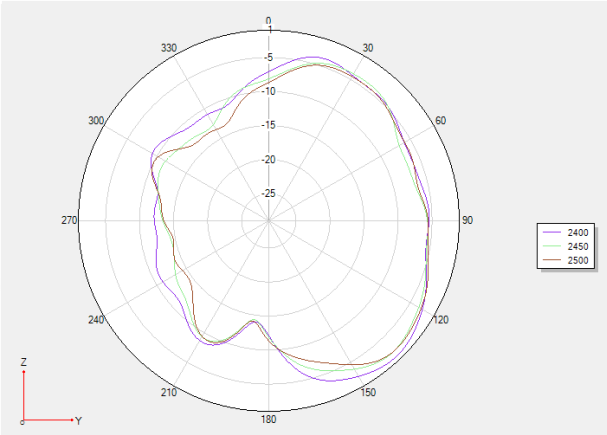
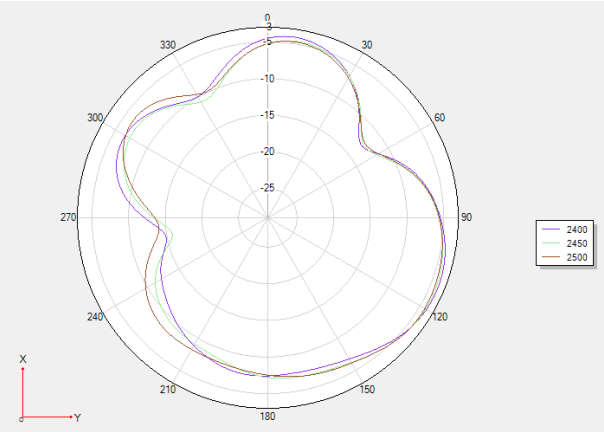
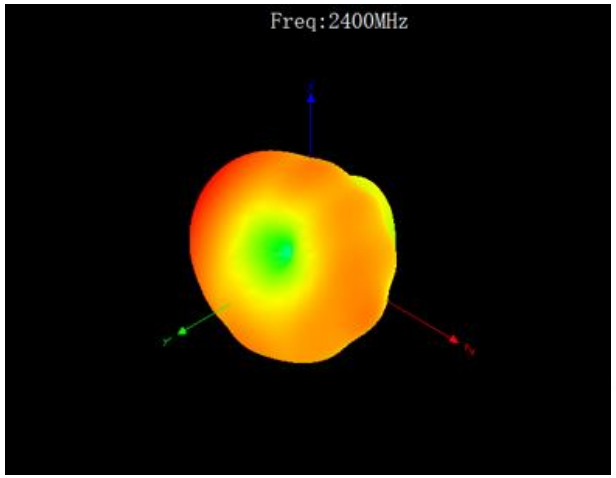
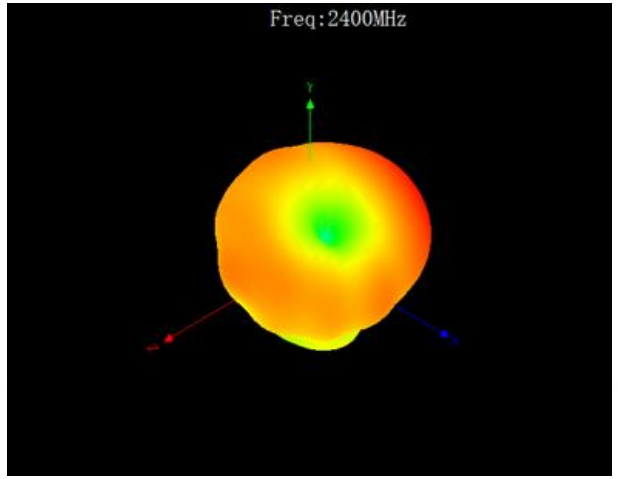
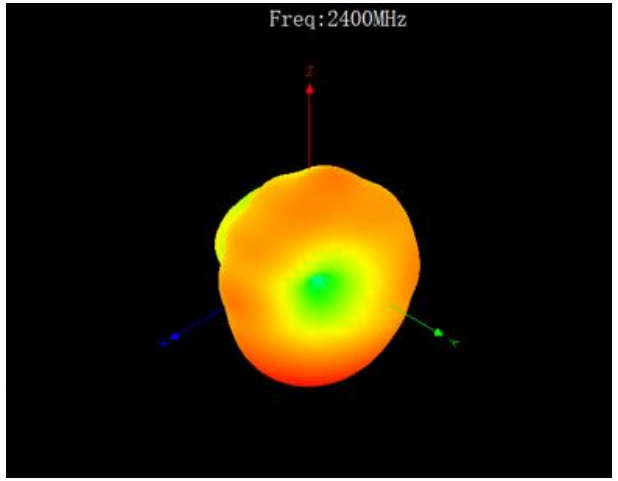
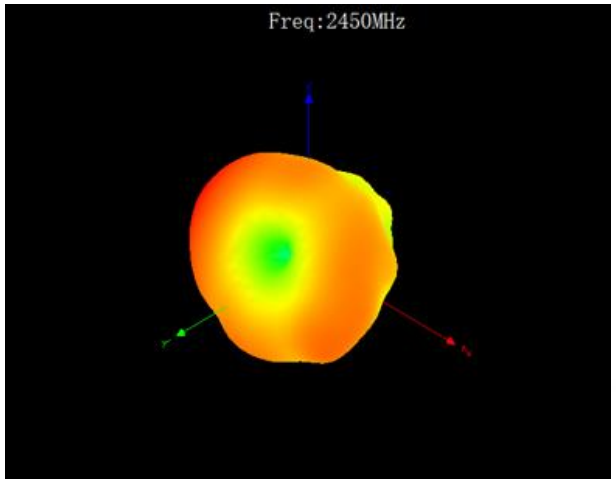
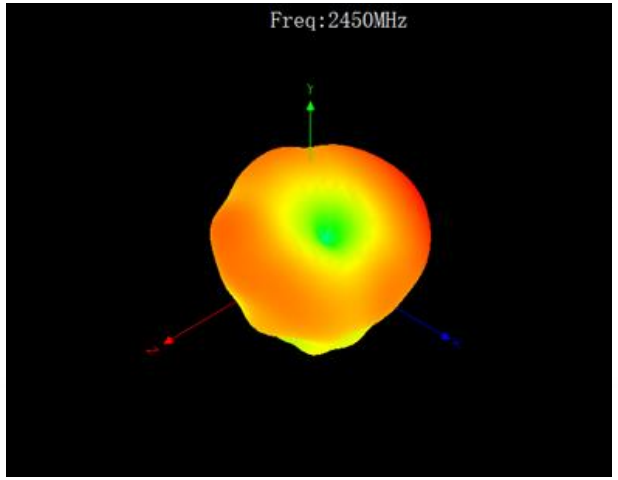
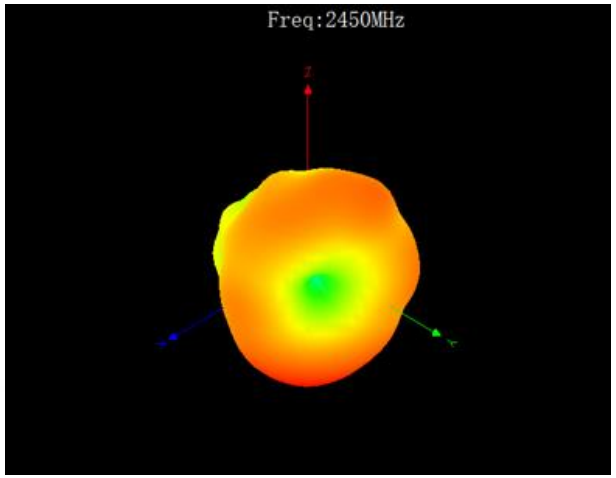
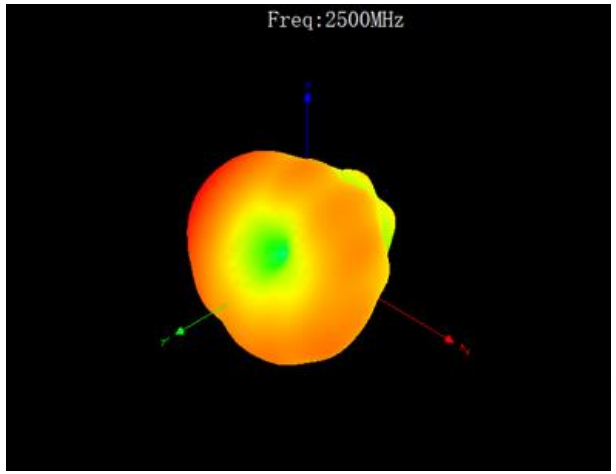
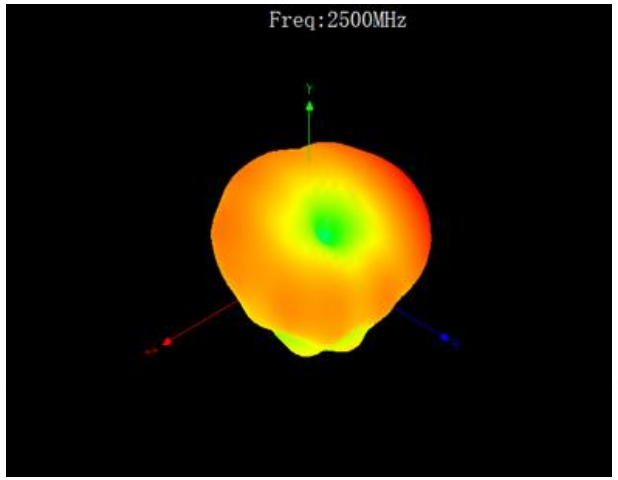
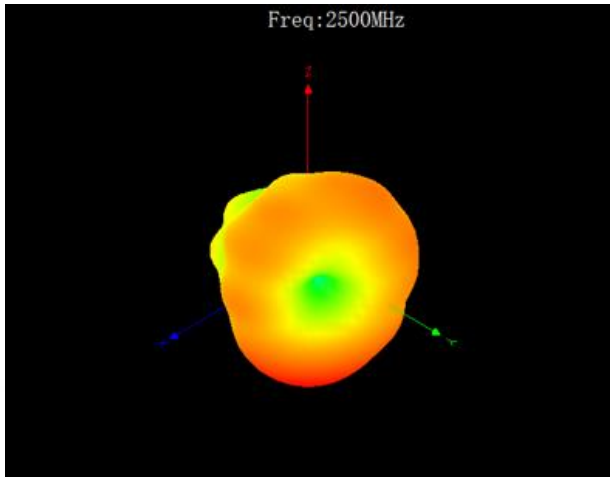
Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-2.94	50.82	-0.15
2410	-3.42	45.5	-0.9
2420	-2.94	50.82	0.06
2430	-3.56	44.06	-0.95
2440	-3.28	46.99	-0.29
2450	-3.12	48.75	-0.81
2460	-3.09	49.09	-0.17
2470	-3.36	46.13	-0.67
2480	-3.24	47.42	-0.44
2490	-3.07	49.32	-0.16
2500	-3.26	47.21	-0.59

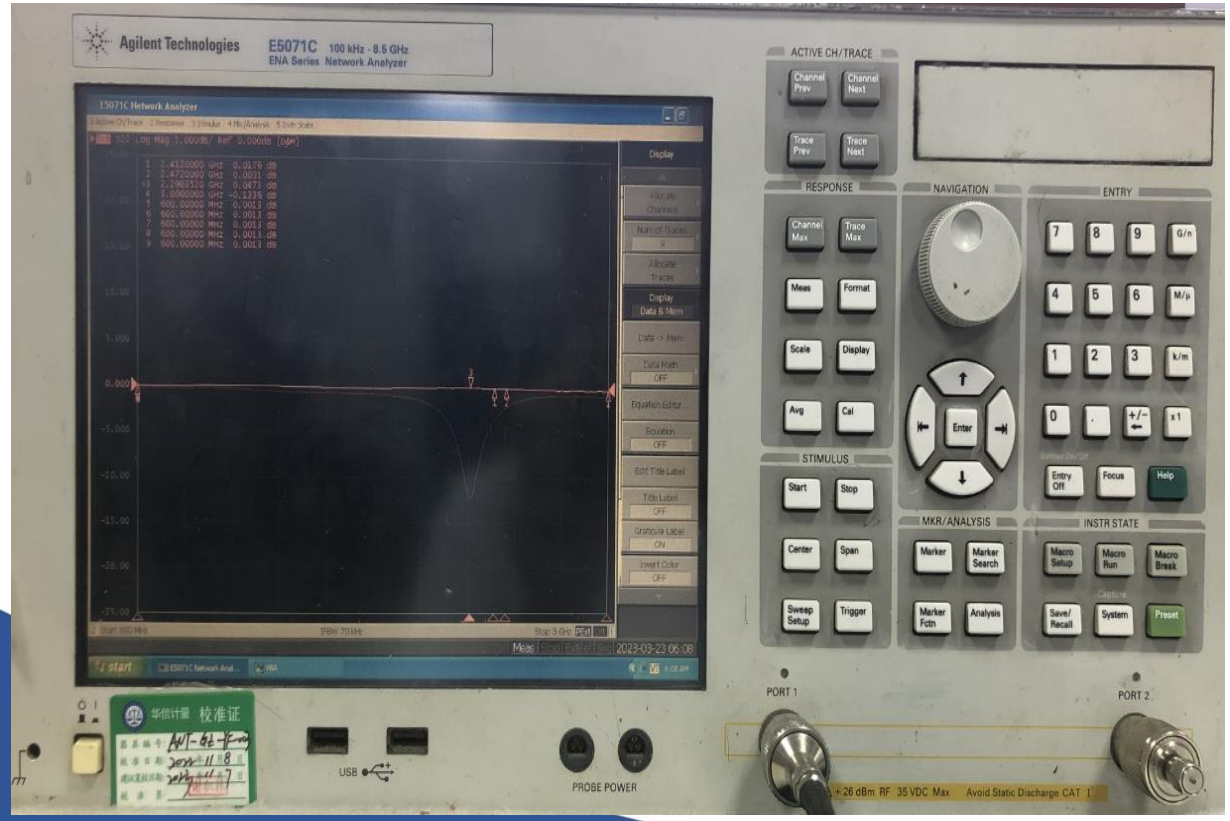
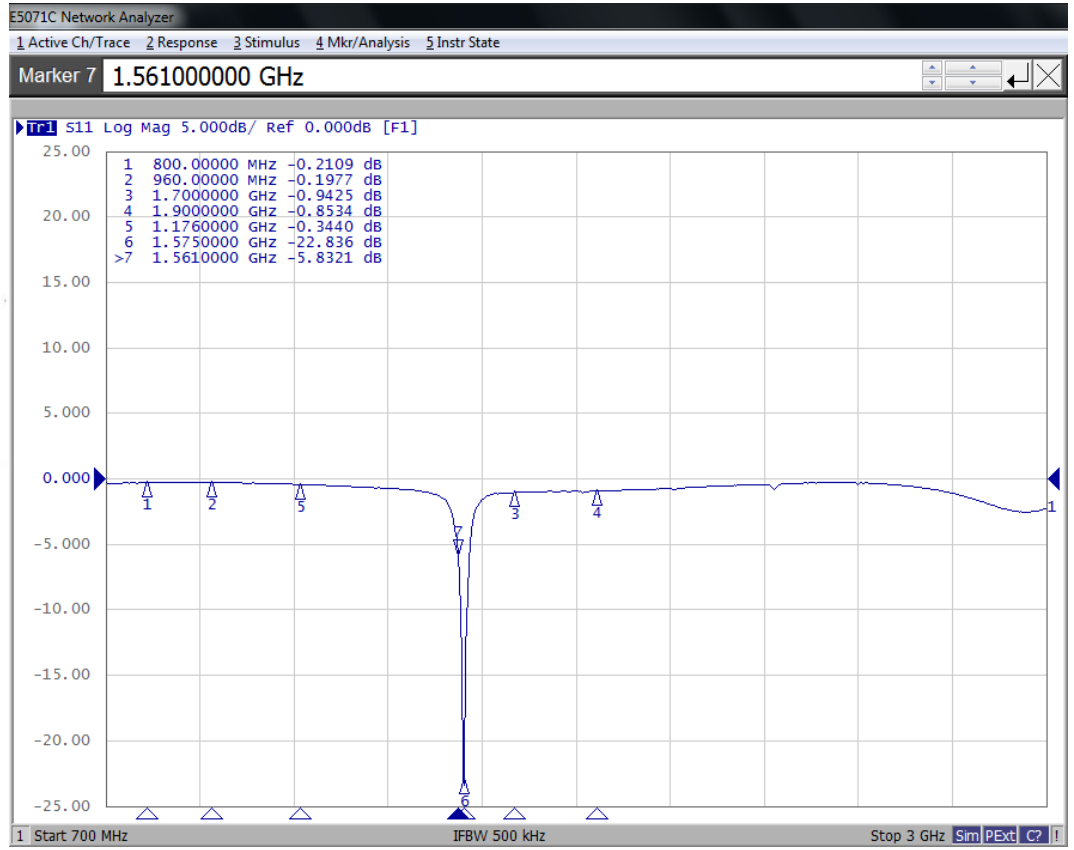
2D-Etotal (2400/2450/2500Mhz)		
Phi 0 2D	Phi 90 2D	Theta 90 2D
		

3D-Etotal (2400Mhz)		
		

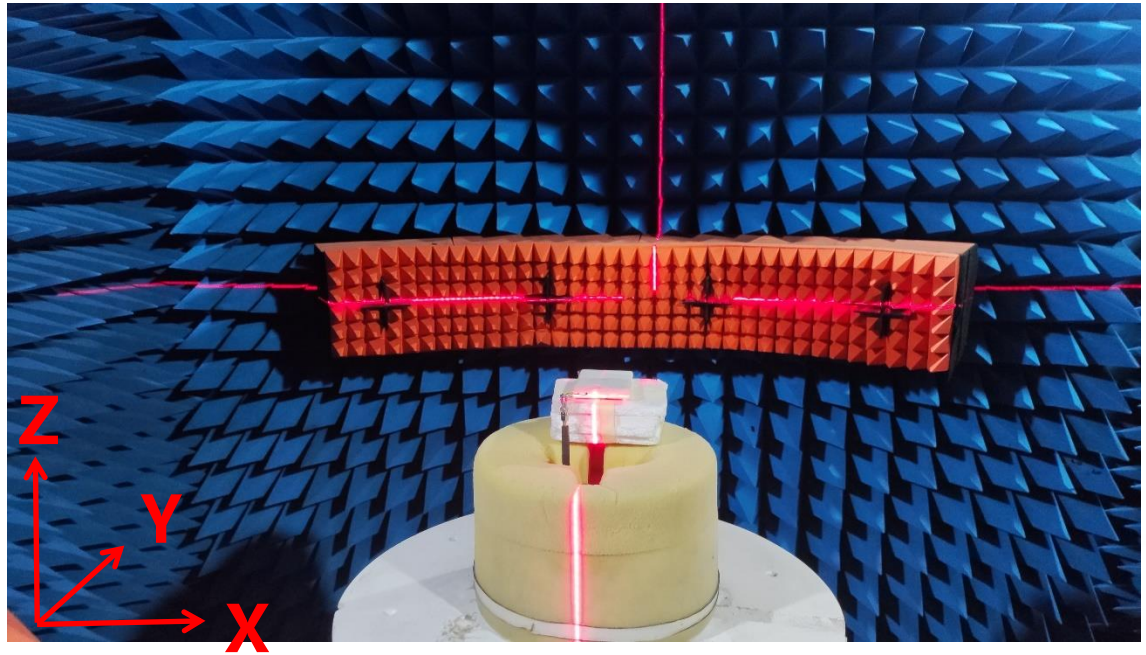
3D-Etotal (2450Mhz)		
		

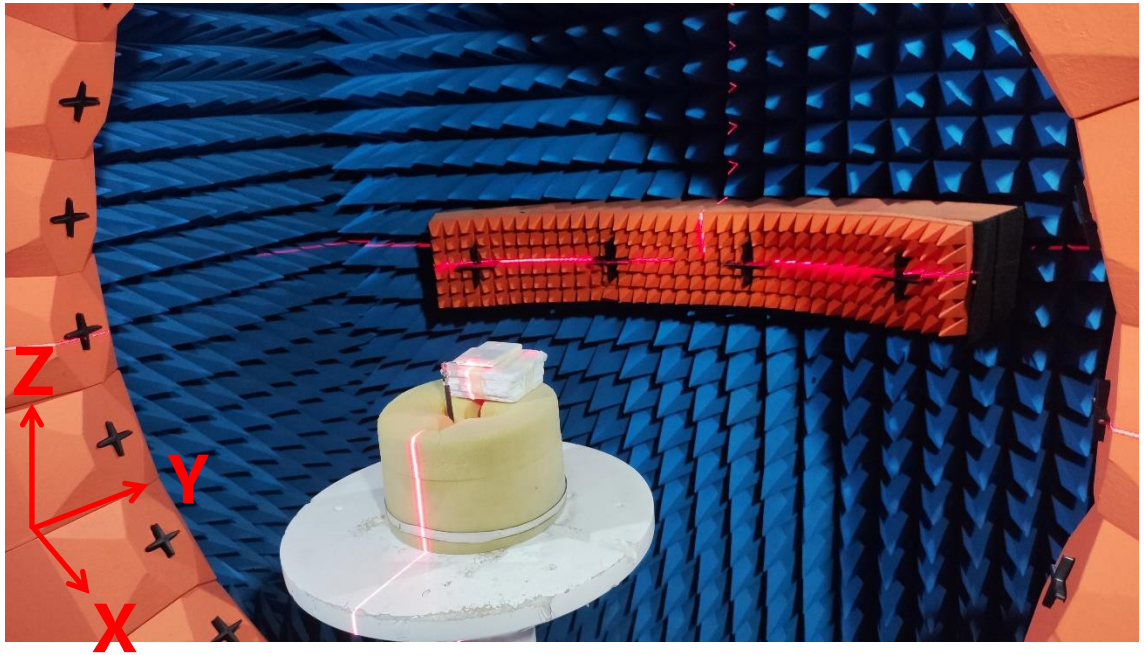
3D-Etotal (2500Mhz)		
		

4. GPS Test

Agilent E5071C	S-Parameter Test
	

Antenna Passive Test





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Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
1550	-8.67	13.58	-7.37
1555	-7.05	19.72	-6.17
1560	-6.07	24.72	-4.61
1565	-5.41	28.77	-4.83
1570	-4.11	38.82	-3.35
1575	-4.39	36.39	-2.53
1580	-3.88	40.93	-2.99
1585	-5.33	29.31	-3.95
1590	-5.68	27.04	-4.36
1595	-6.71	21.33	-4.43
1600	-6.67	21.53	-5.74

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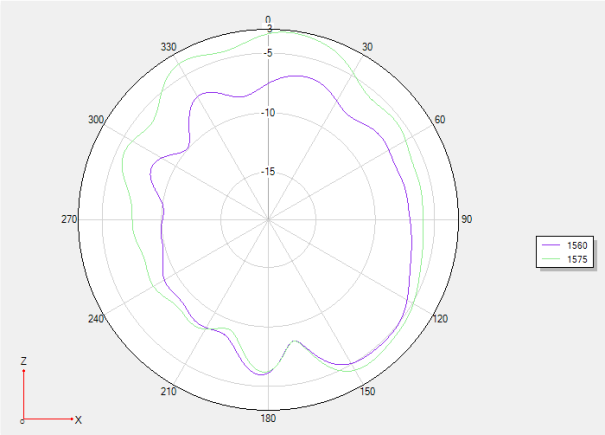
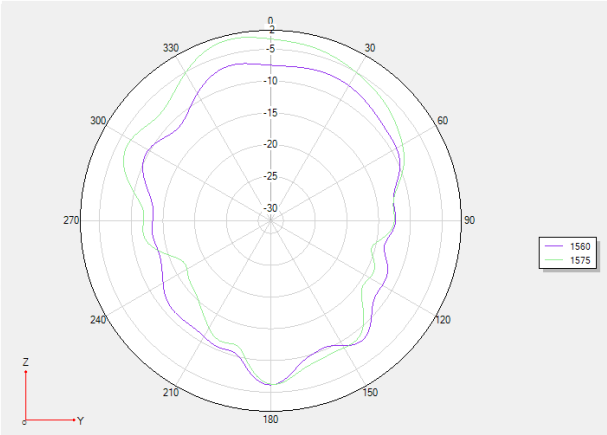
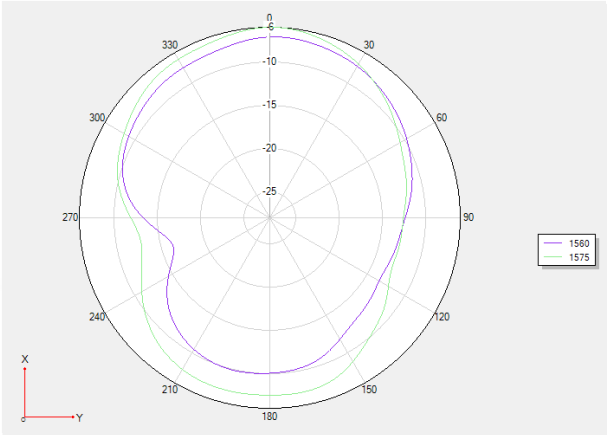
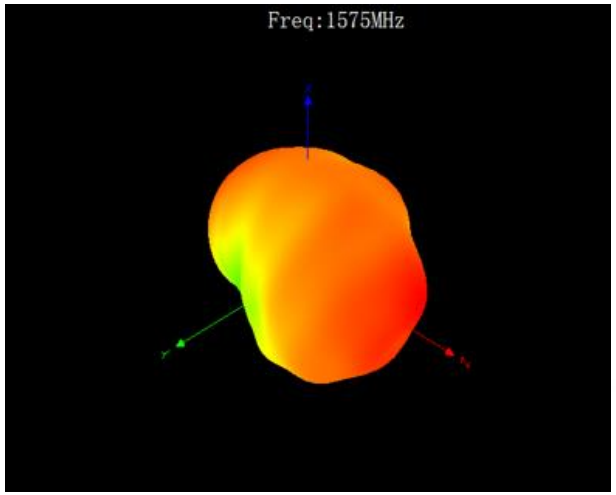
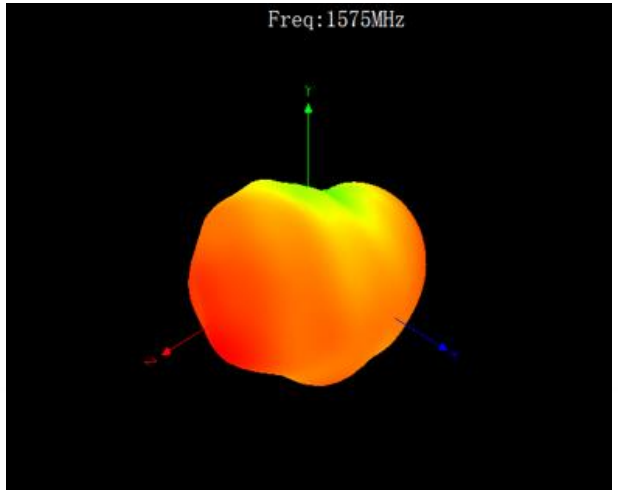
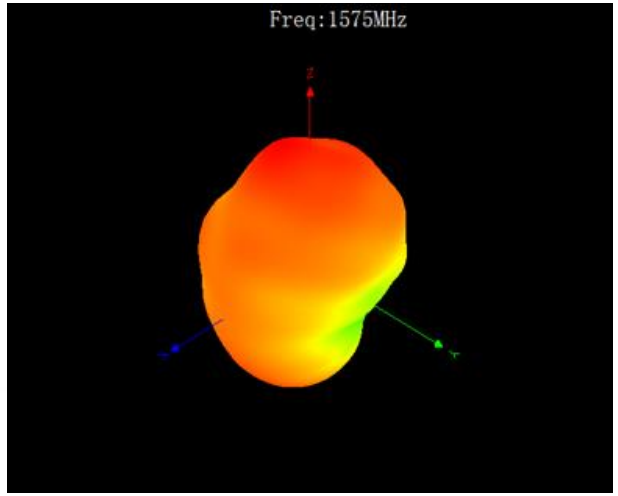
2D-Etotal (1575Mhz)		
Phi 0 2D	Phi 90 2D	Theta 90 2D
		

3D-Etotal (1575Mhz)		
		

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THANK YOU!