



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

Tester : Hu Lin
Date : 2025 / 07 / 21



深圳市安特通讯科技有限公司

ANT Communication Technology (Shenzhen) Co., LTD.

1. Device Profile

2. LORA Test

3. BT Test

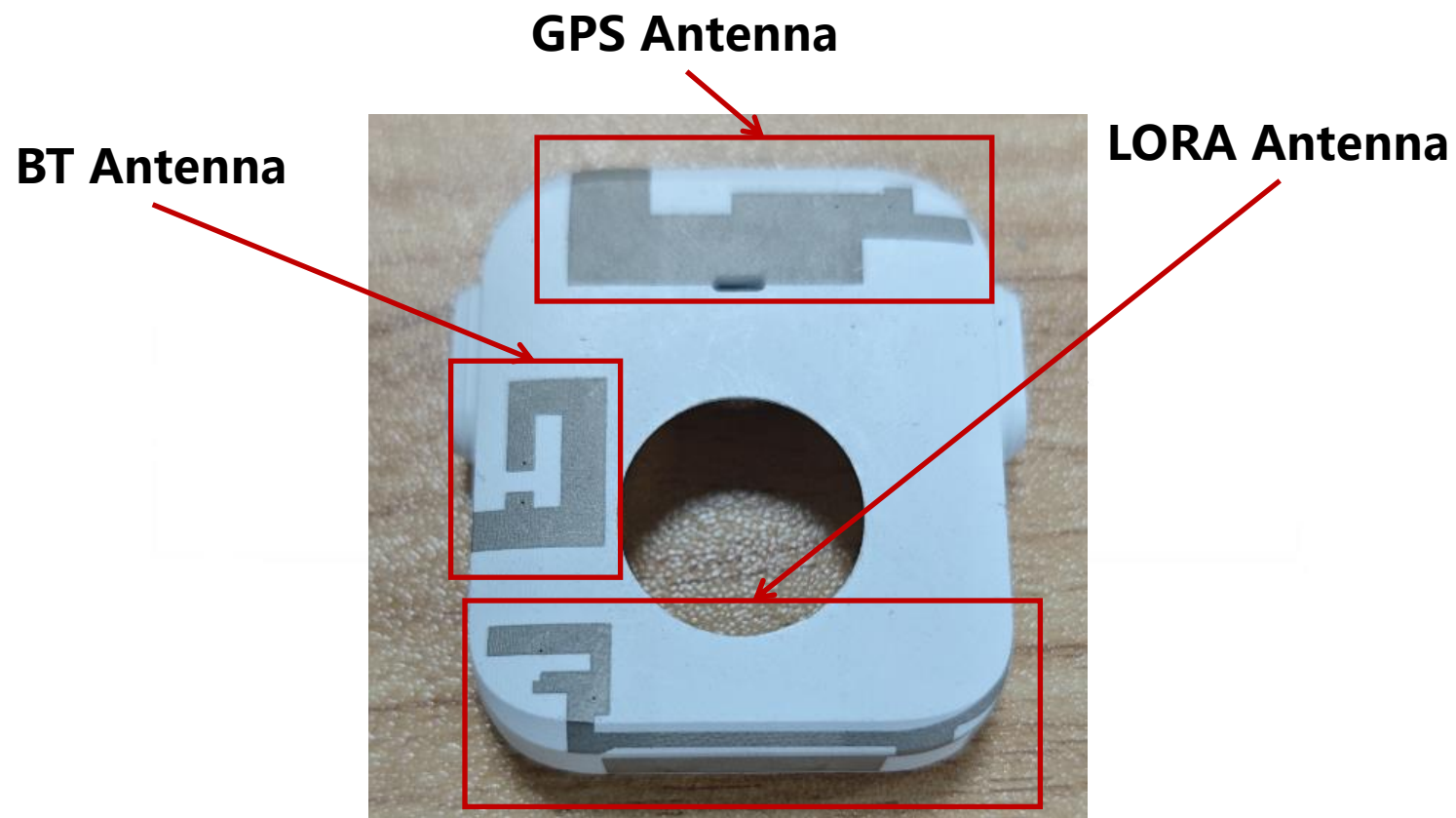
4. GPS Test



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ANT Communication Technology (Shenzhen) Co., LTD.

1. Device Profile

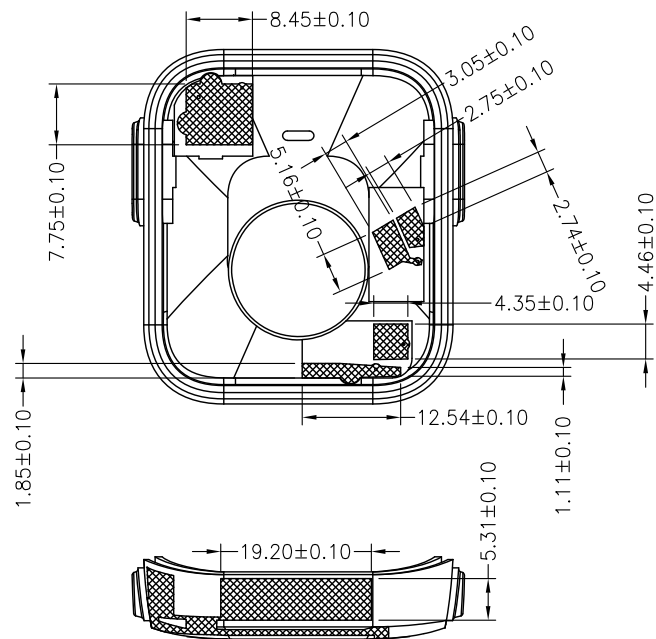
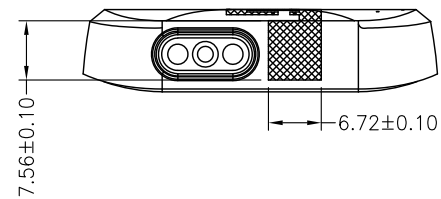
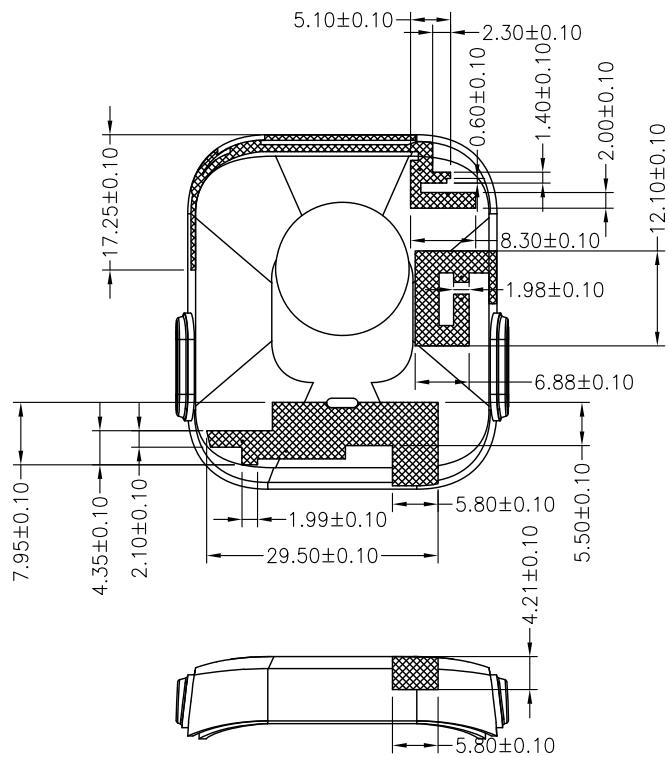
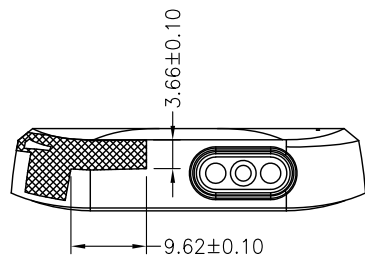




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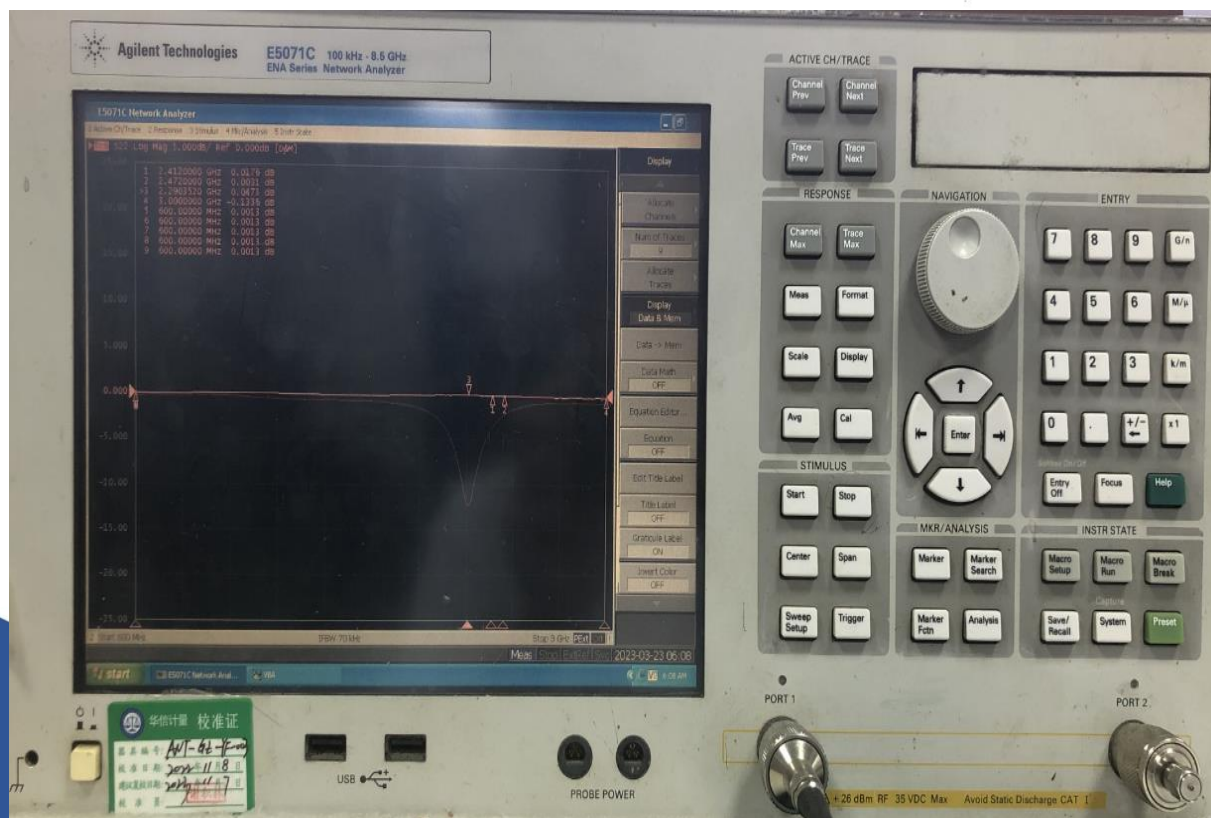


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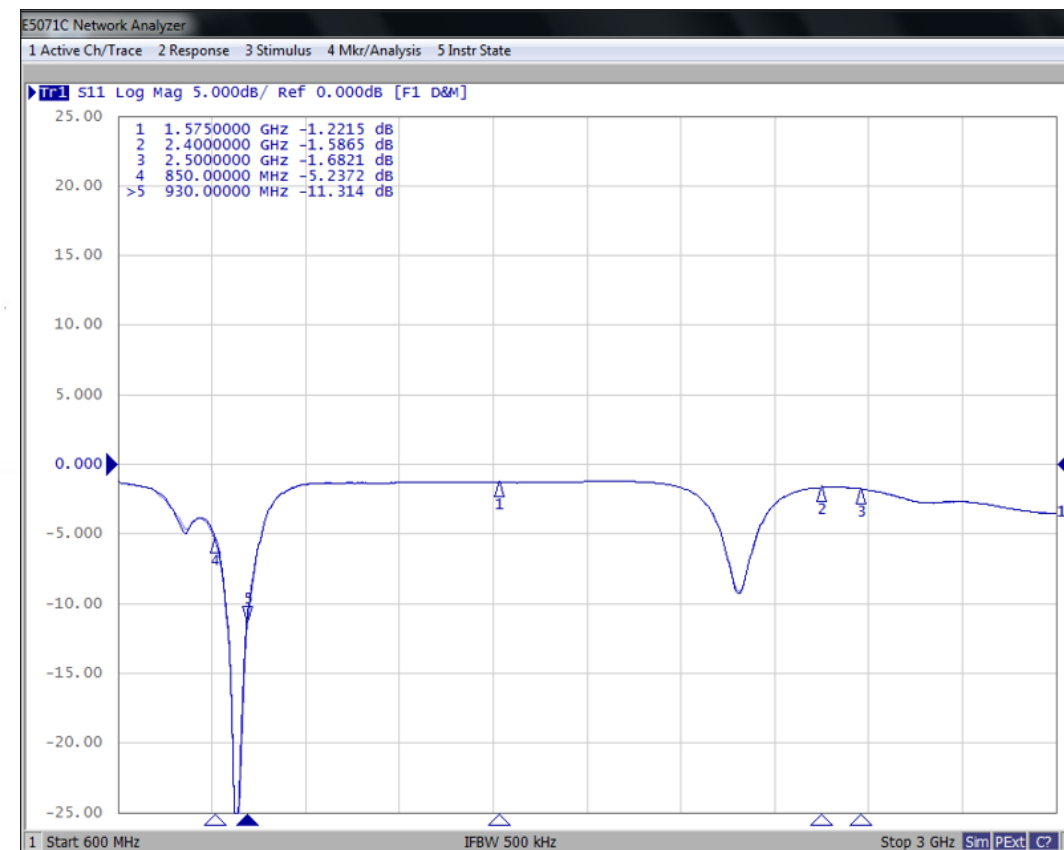
ANT Communication Technology (Shenzhen) Co., LTD.

2. LORA Antenna Test

Agilent E5071C



S-Parameter Test

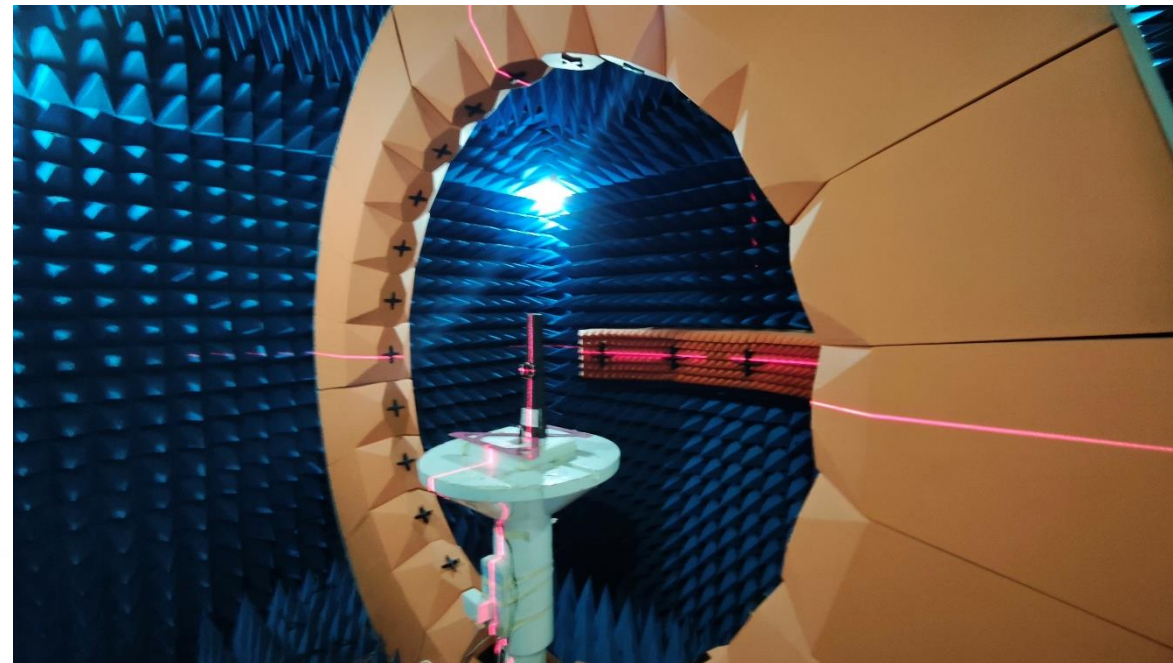
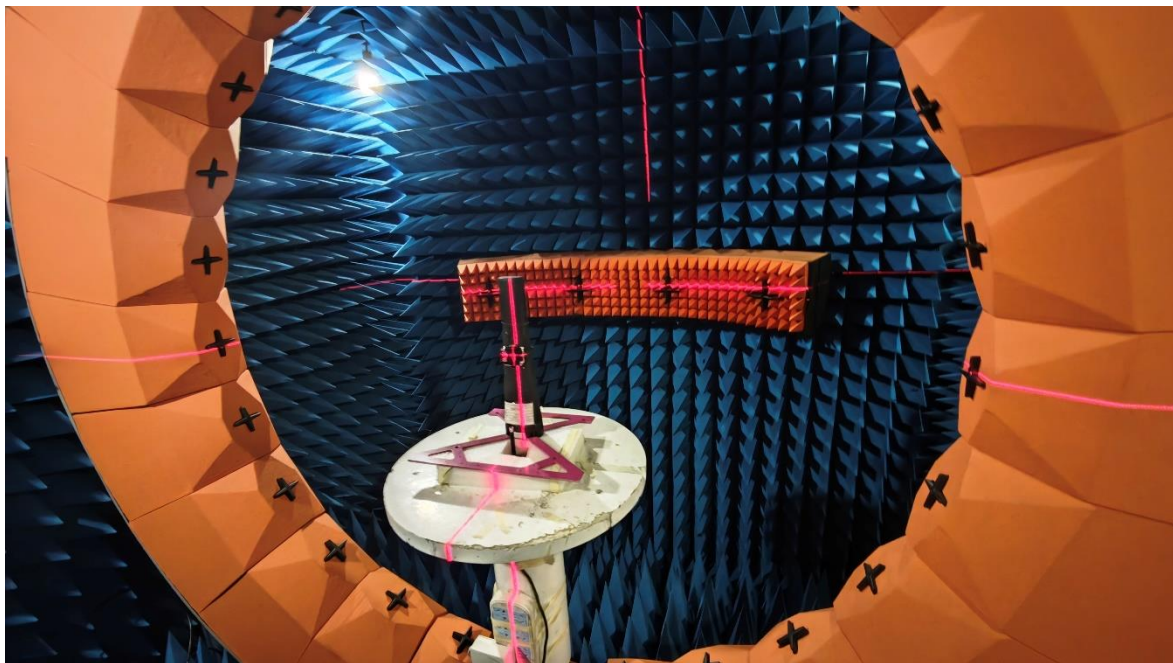




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Antenna Passive Test





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Passive Test For			
Frequency/MHz	Efficiency/dB	Efficiency/%	MaxGain/dBi
850	-11.16	7.66	-6.09
860	-10.6	8.71	-5.57
870	-10.42	9.08	-5.82
880	-9.64	10.86	-5.44
890	-10.09	9.79	-6.19
900	-10.2	9.55	-6.36
910	-10.74	8.43	-7.16
920	-11.31	7.4	-7.81
930	-11.94	6.4	-8.38

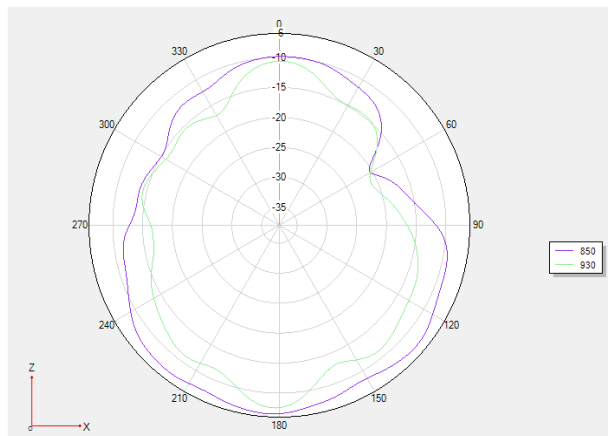


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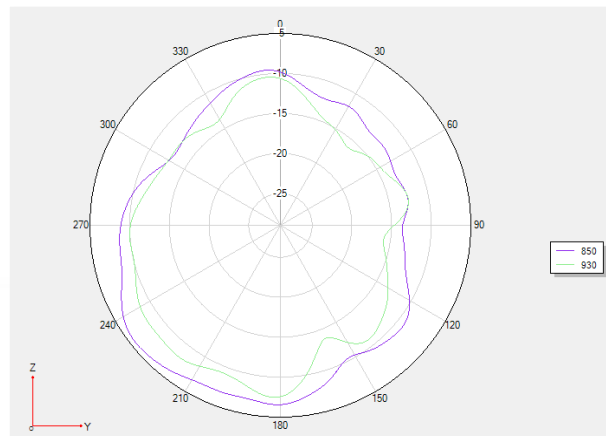
ANT Communication Technology (Shenzhen) Co., LTD.

2D-Etotal (850/930Mhz)

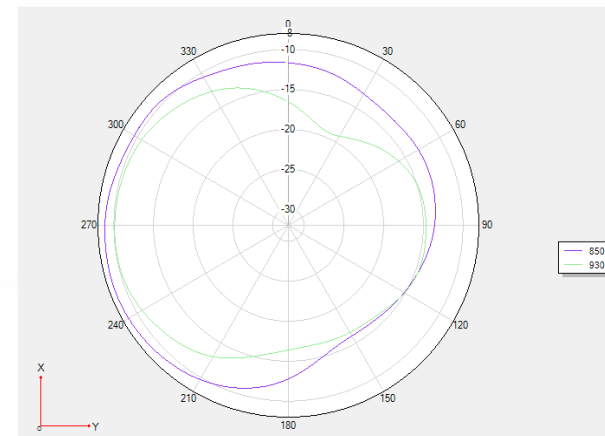
Phi 0 2D



Phi 90 2D



Theta 90 2D

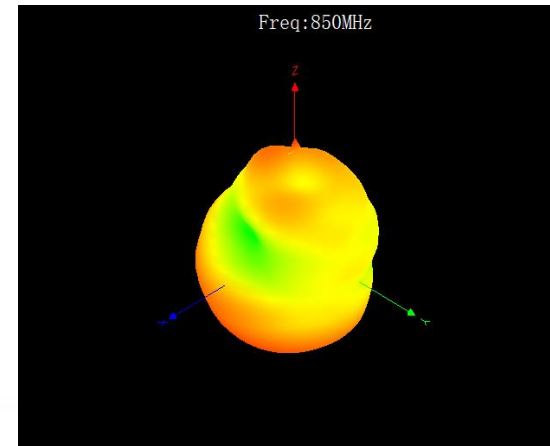
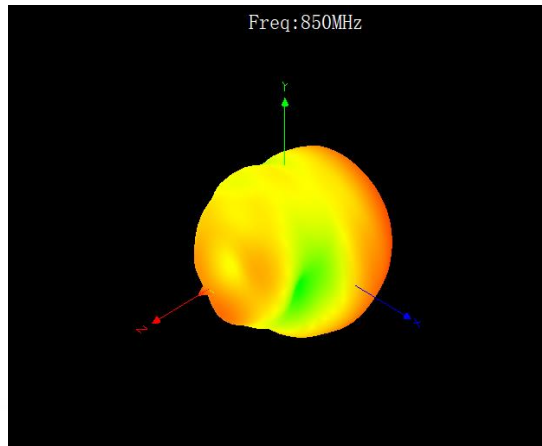
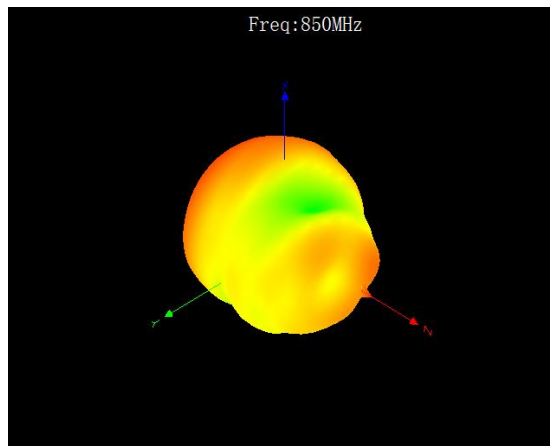




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ANT Communication Technology (Shenzhen) Co., LTD.

3D-Etotal (850Mhz)

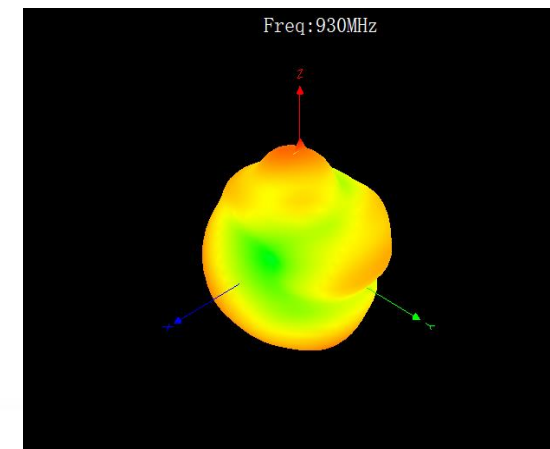
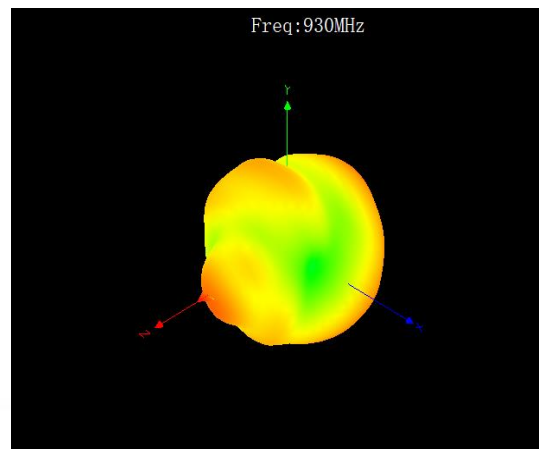
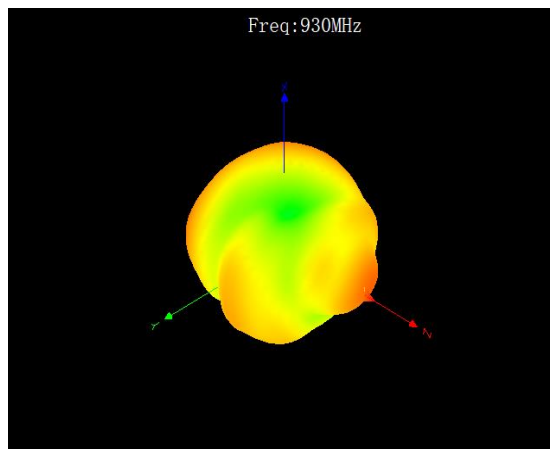




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ANT Communication Technology (Shenzhen) Co., LTD.

3D-Etotal (930Mhz)



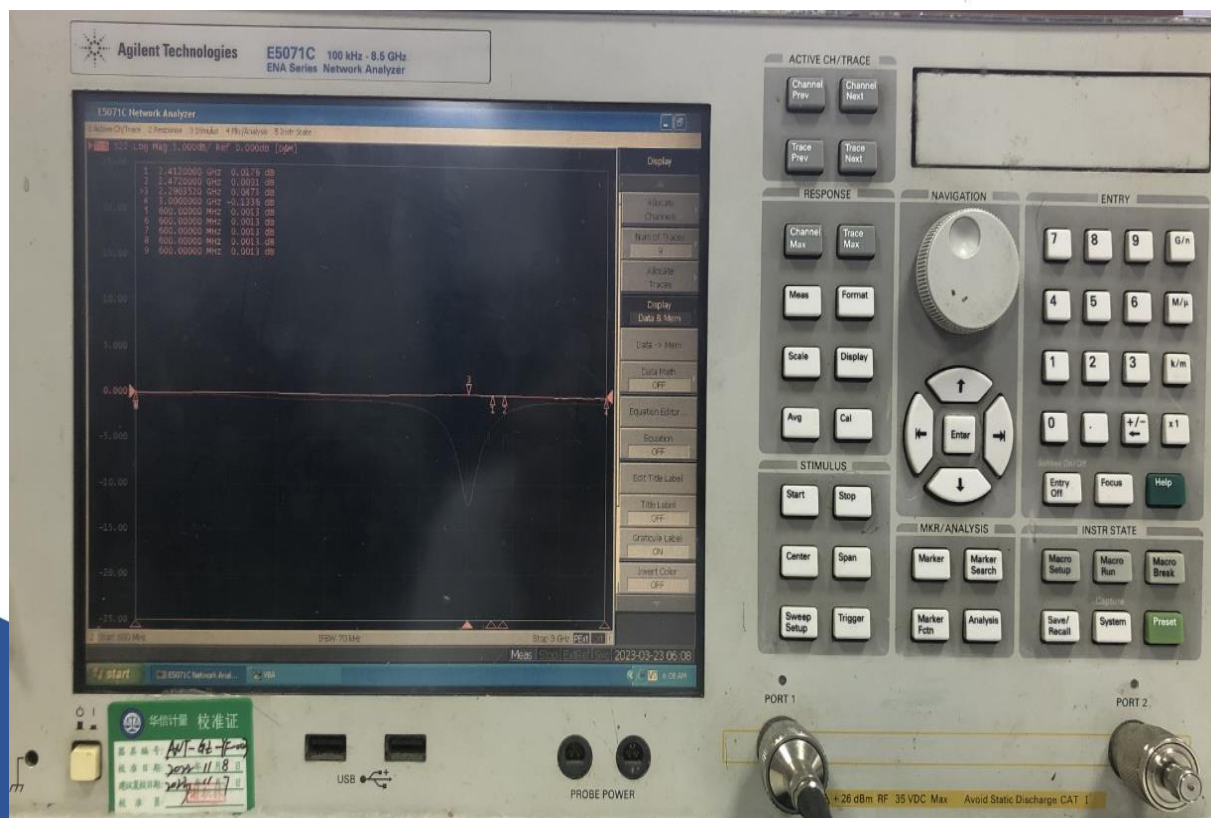


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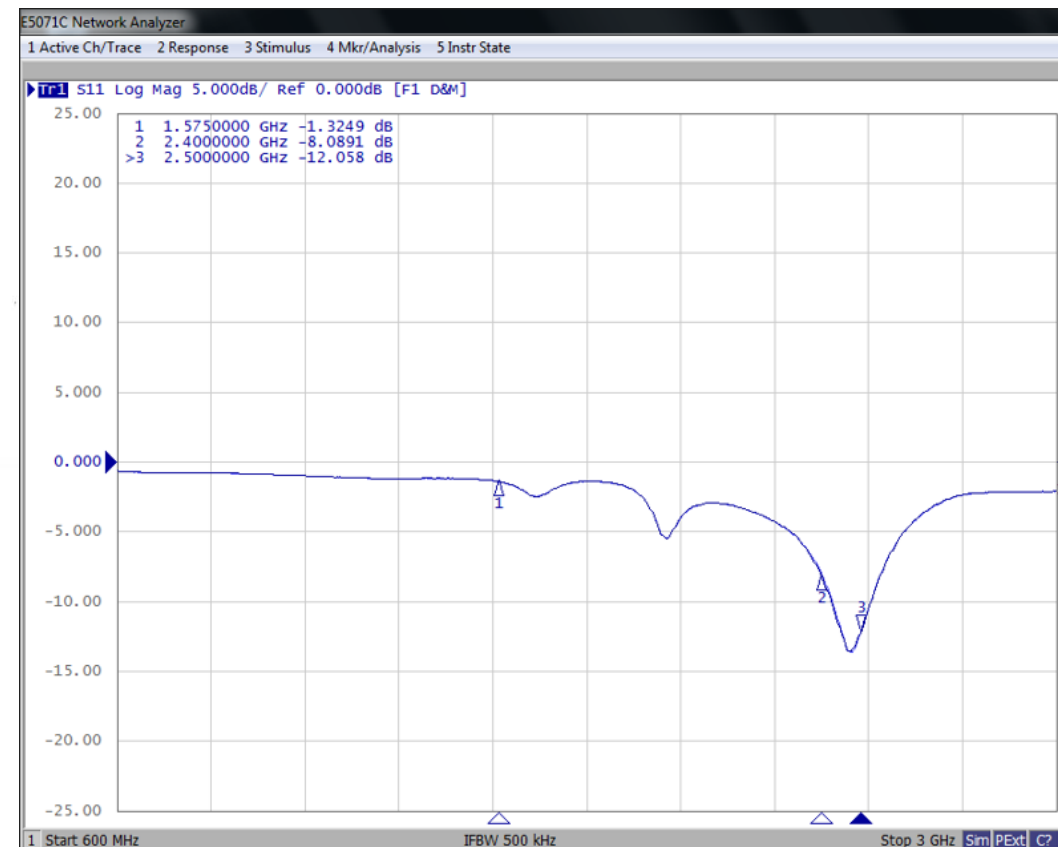
ANT Communication Technology (Shenzhen) Co., LTD.

3. BT Antenna Test

Agilent E5071C



S-Parameter Test

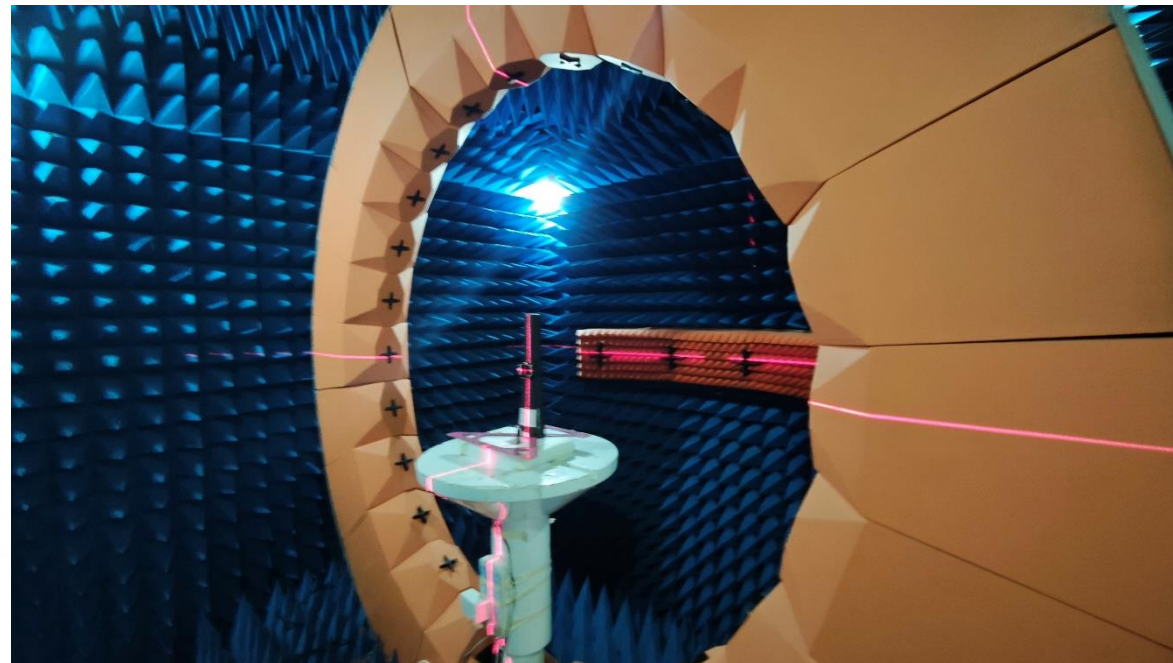
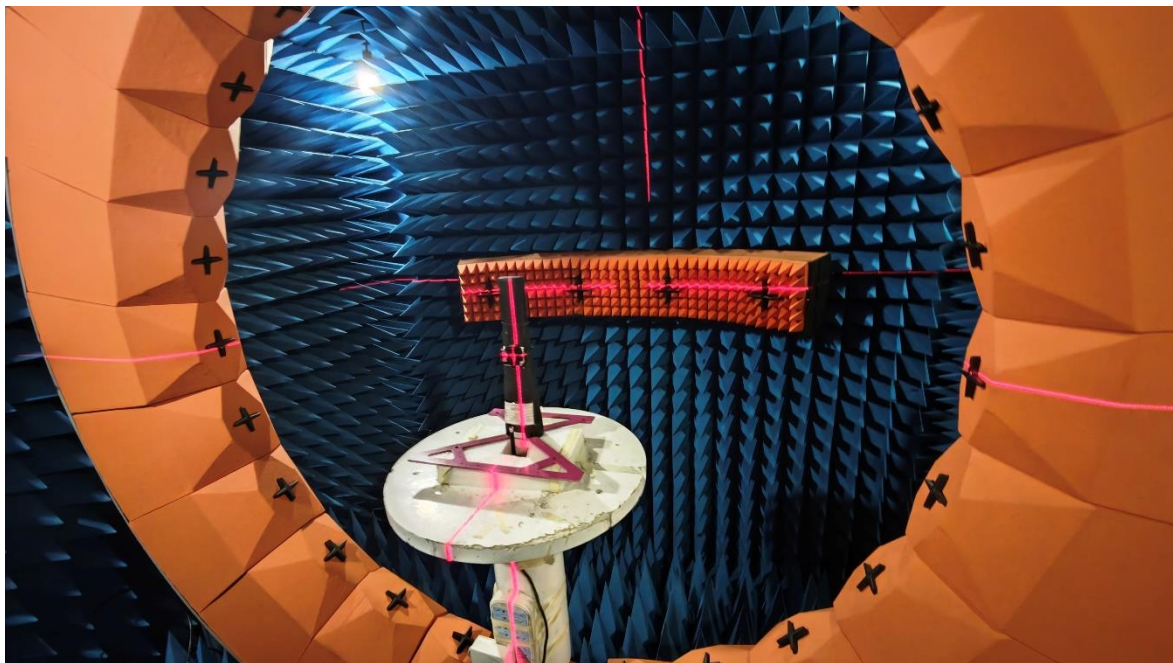




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ANT Communication Technology (Shenzhen) Co., LTD.

Antenna Passive Test





深圳市安特通讯科技有限公司

ANT Communication Technology (Shenzhen) Co., LTD.

Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-9.75	10.59	-1.97
2410	-9.59	10.98	-2.59
2420	-9.91	10.21	-2.1
2430	-9.83	10.41	-3
2440	-9.85	10.36	-2.44
2450	-9.66	10.82	-2.88
2460	-9.93	10.16	-2.9
2470	-9.91	10.21	-3.13
2480	-10.00	10	-3.34
2490	-9.75	10.59	-2.88
2500	-10.37	9.18	-3.84

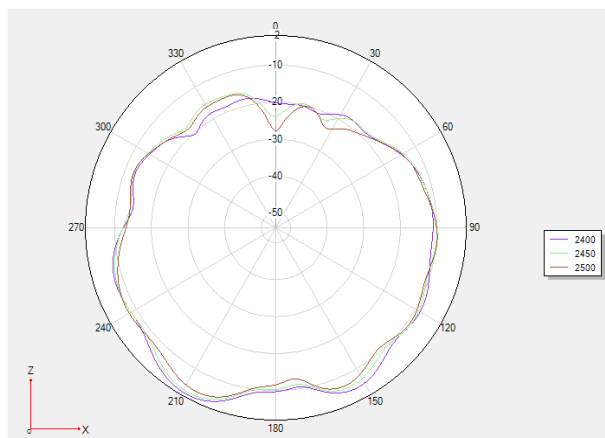


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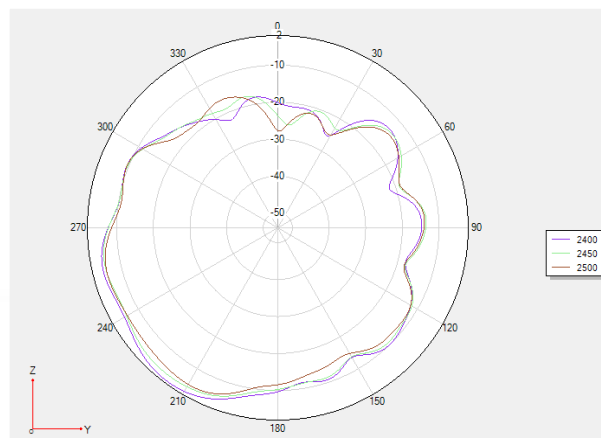
ANT Communication Technology (Shenzhen) Co., LTD.

2D-Etotal (2400/2450/2500Mhz)

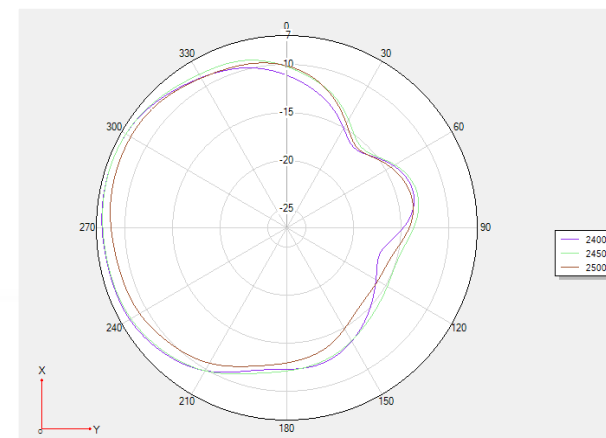
Phi 0 2D



Phi 90 2D



Theta 90 2D

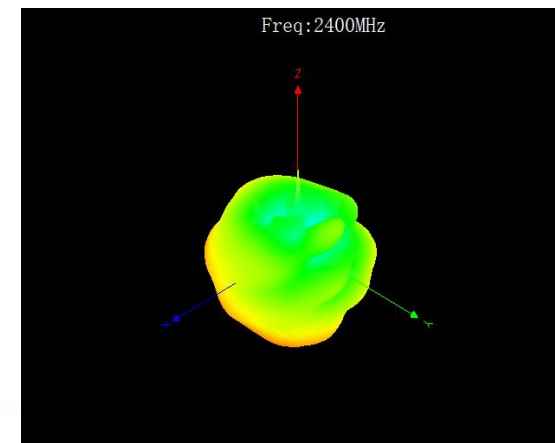
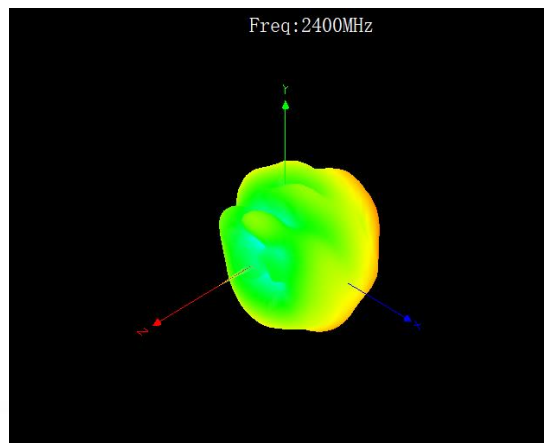
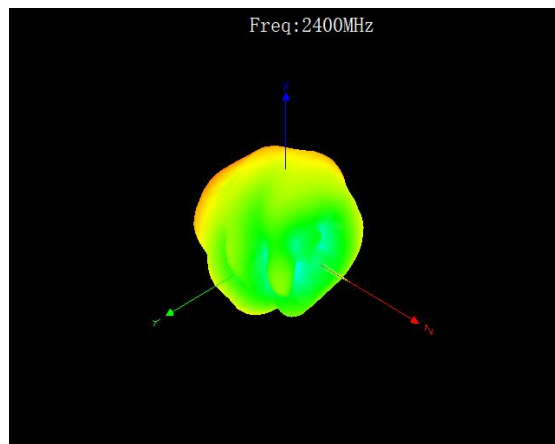




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3D-Etotal (2400Mhz)

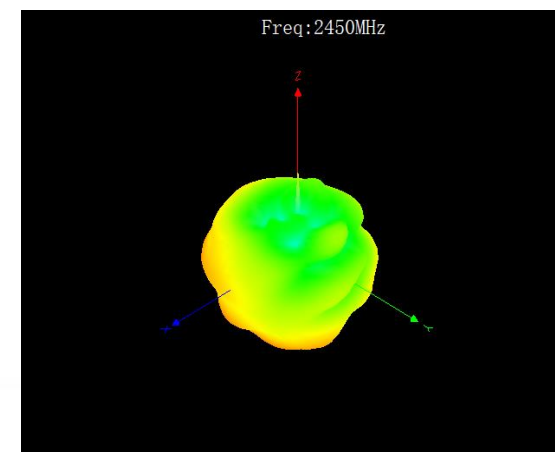
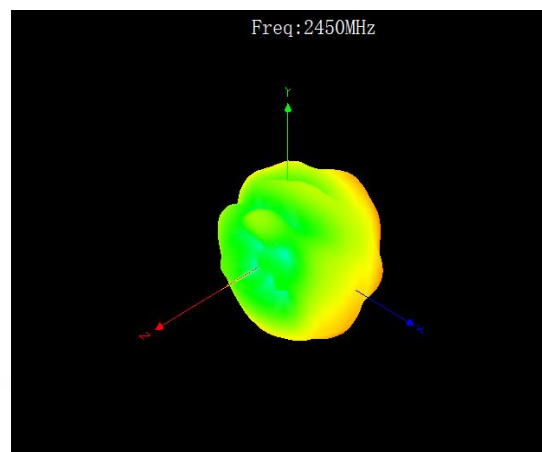
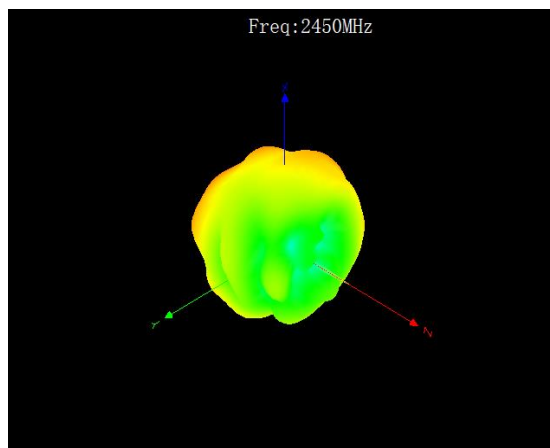




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3D-Etotal (2450Mhz)

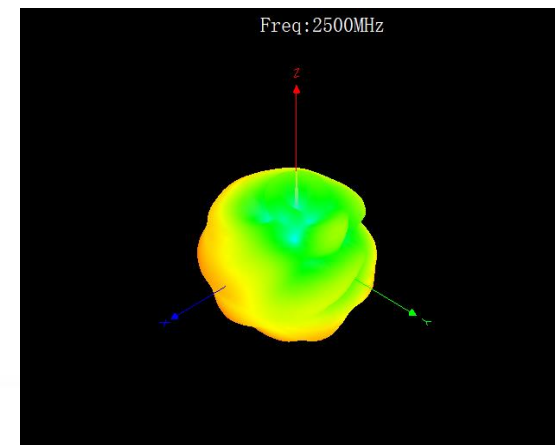
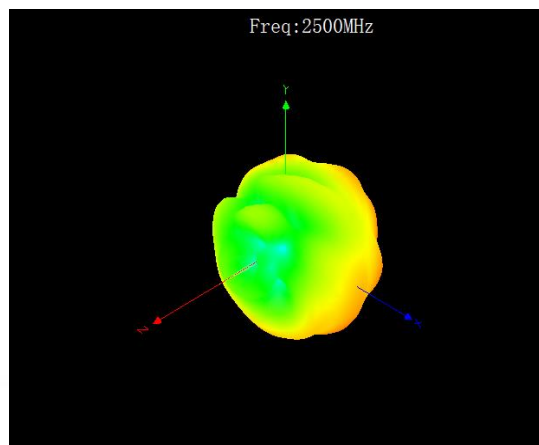
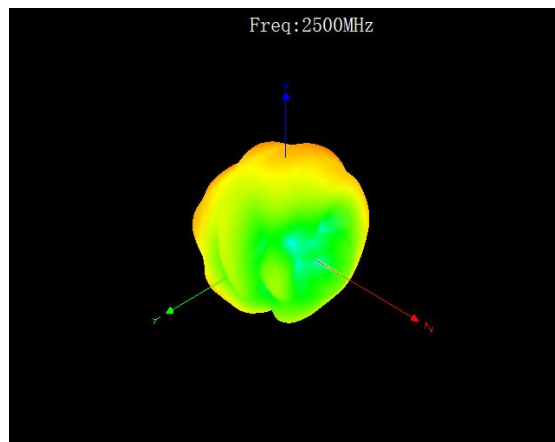




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3D-Etotal (2500Mhz)



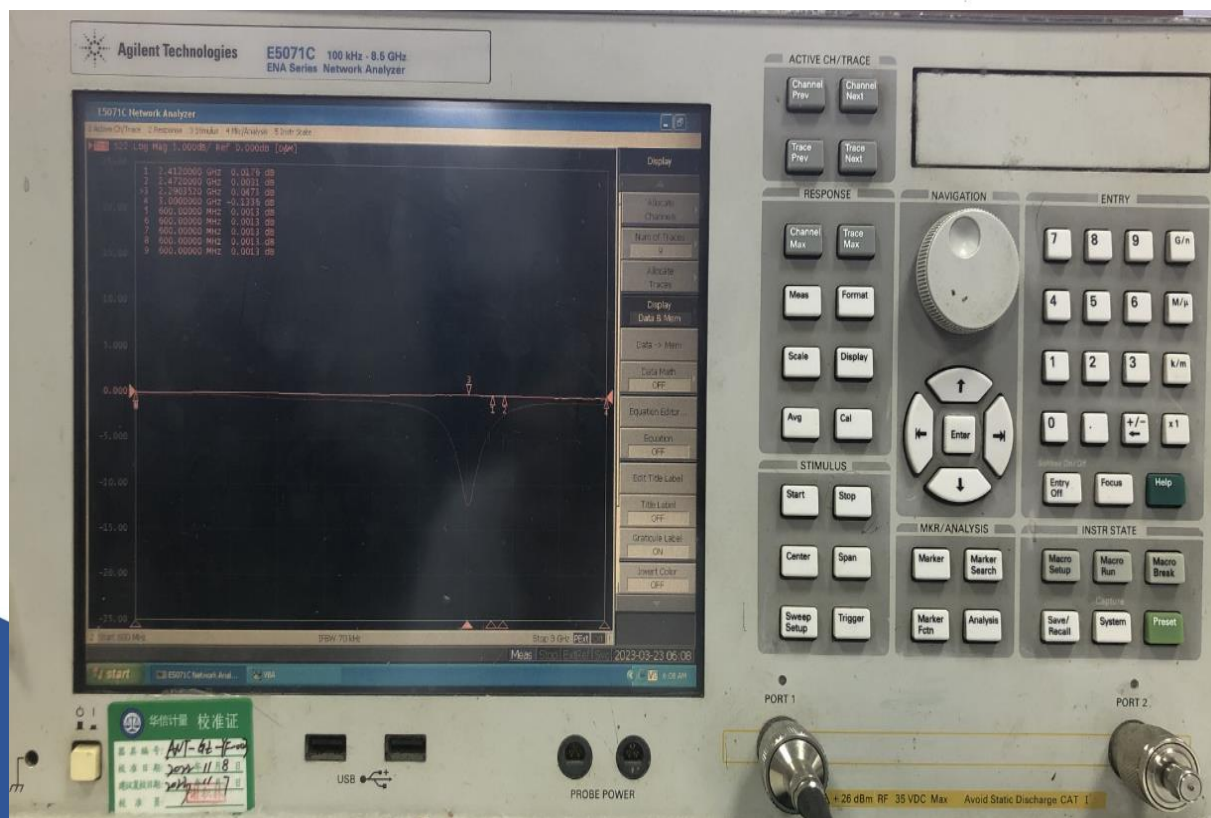


深圳市安特通讯科技有限公司

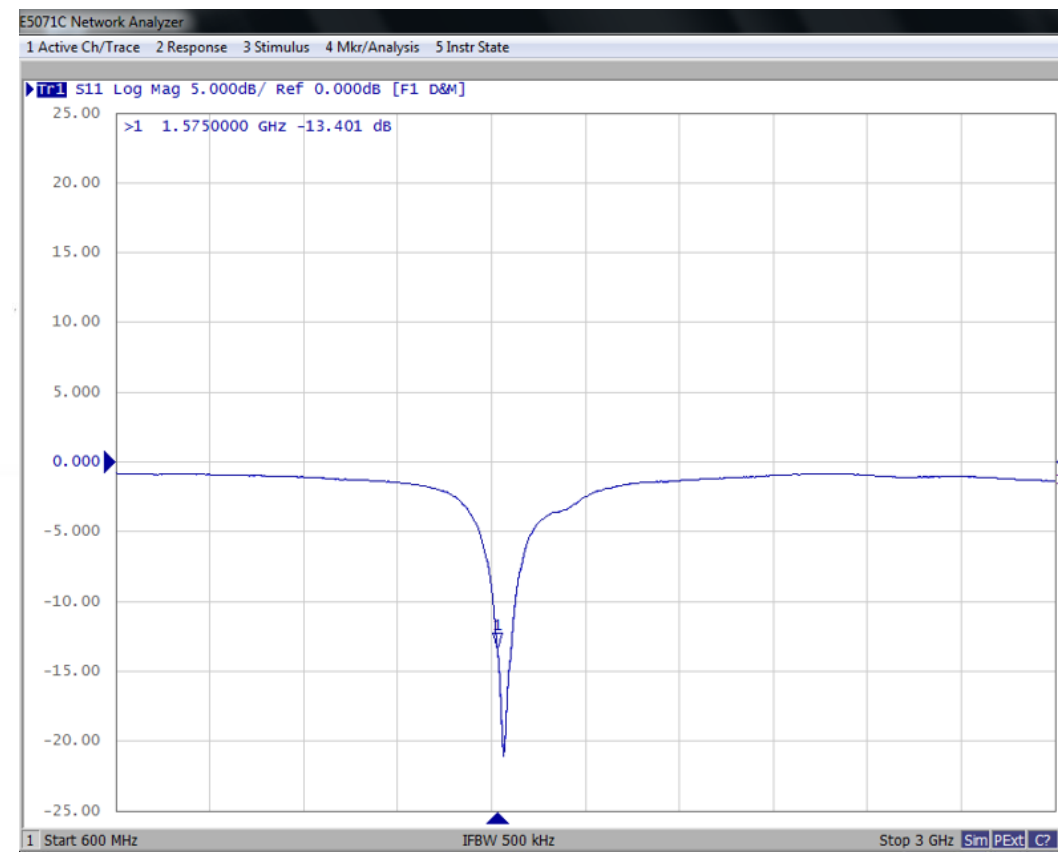
ANT Communication Technology (Shenzhen) Co., LTD.

4. GPS Antenna Test

Agilent E5071C



S-Parameter Test

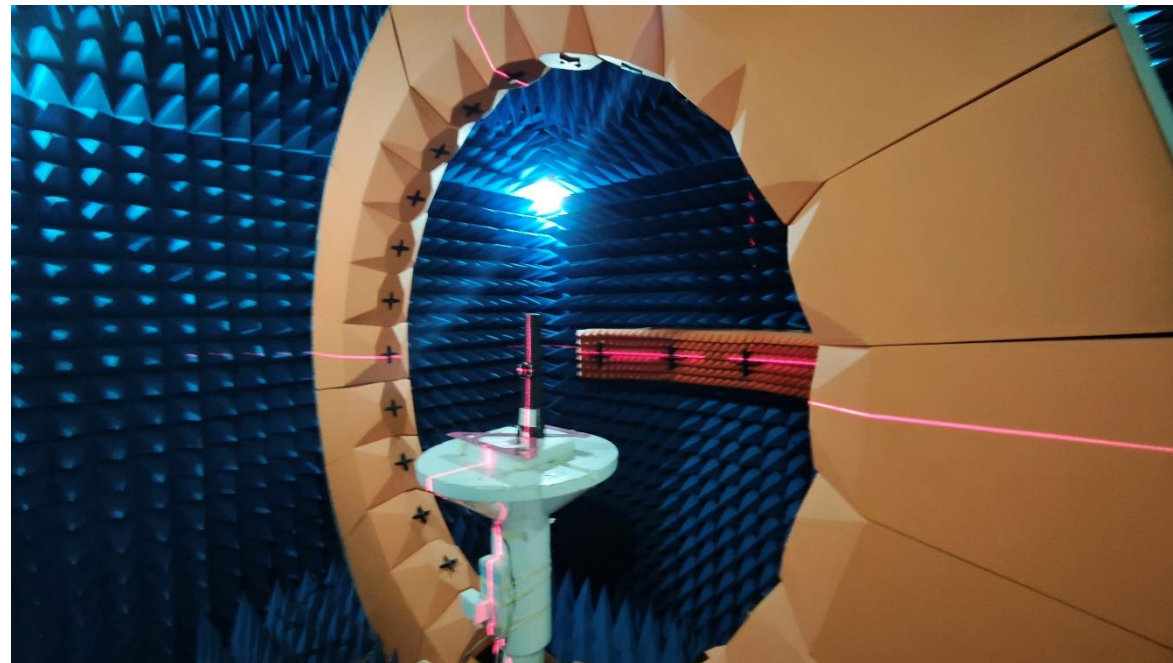
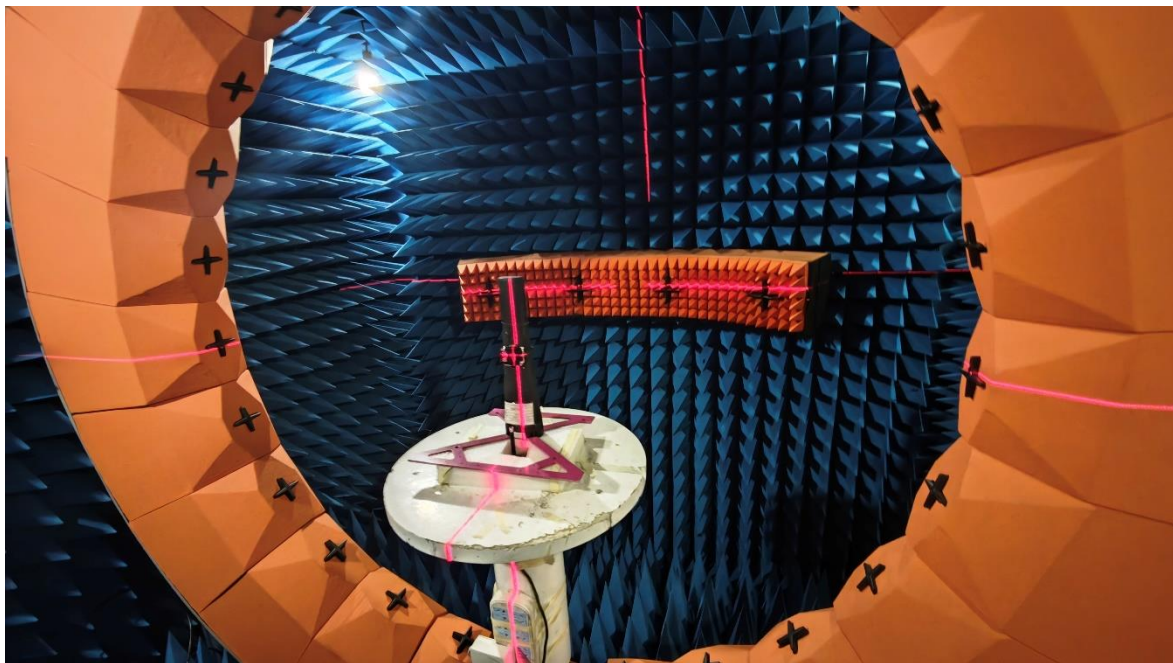




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Antenna Passive Test





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ANT Communication Technology (Shenzhen) Co., LTD.

Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
1500	-9.7	10.72	-3.77
1510	-8.97	12.68	-3.08
1520	-8.7	13.49	-2.95
1530	-8.51	14.09	-2.84
1540	-8.32	14.72	-2.71
1550	-8.36	14.59	-2.68
1560	-8.53	14.03	-2.62
1570	-8.29	14.83	-2.71
1580	-8.62	13.74	-2.8
1590	-8.86	13	-2.96
1600	-9.44	11.38	-3.39

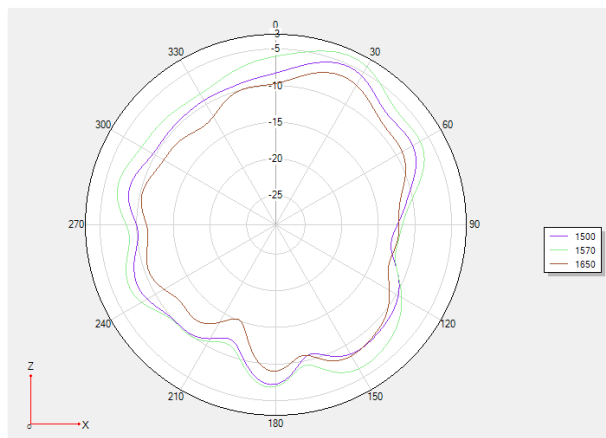


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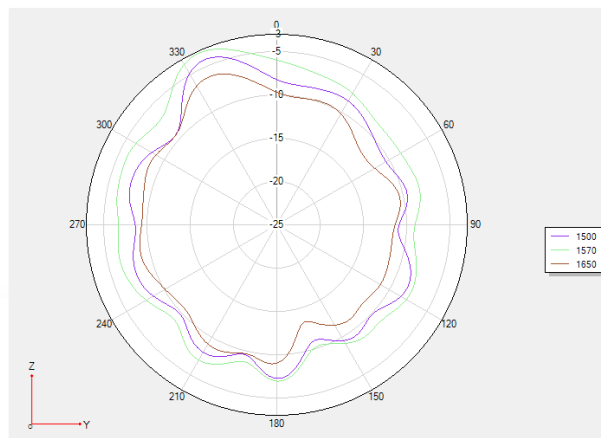
ANT Communication Technology (Shenzhen) Co., LTD.

2D-Etotal (1570Mhz)

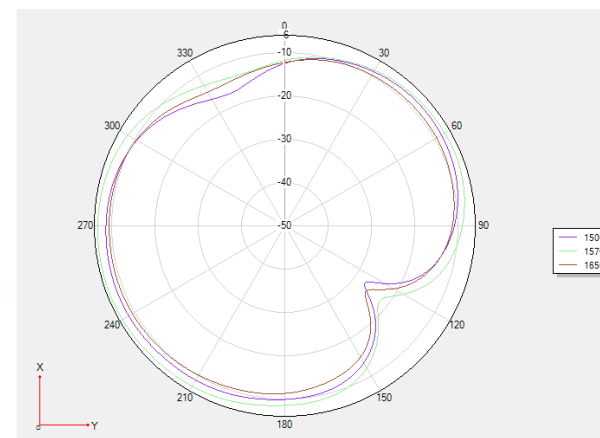
Phi 0 2D



Phi 90 2D



Theta 90 2D





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ANT Communication Technology (Shenzhen) Co., LTD.

3D-Etotal (1570Mhz)

