



東莞市仕研電子通訊有限公司
DONGGUAN SEYA ELECTRONIC COMMUNICATION CO.,LTD

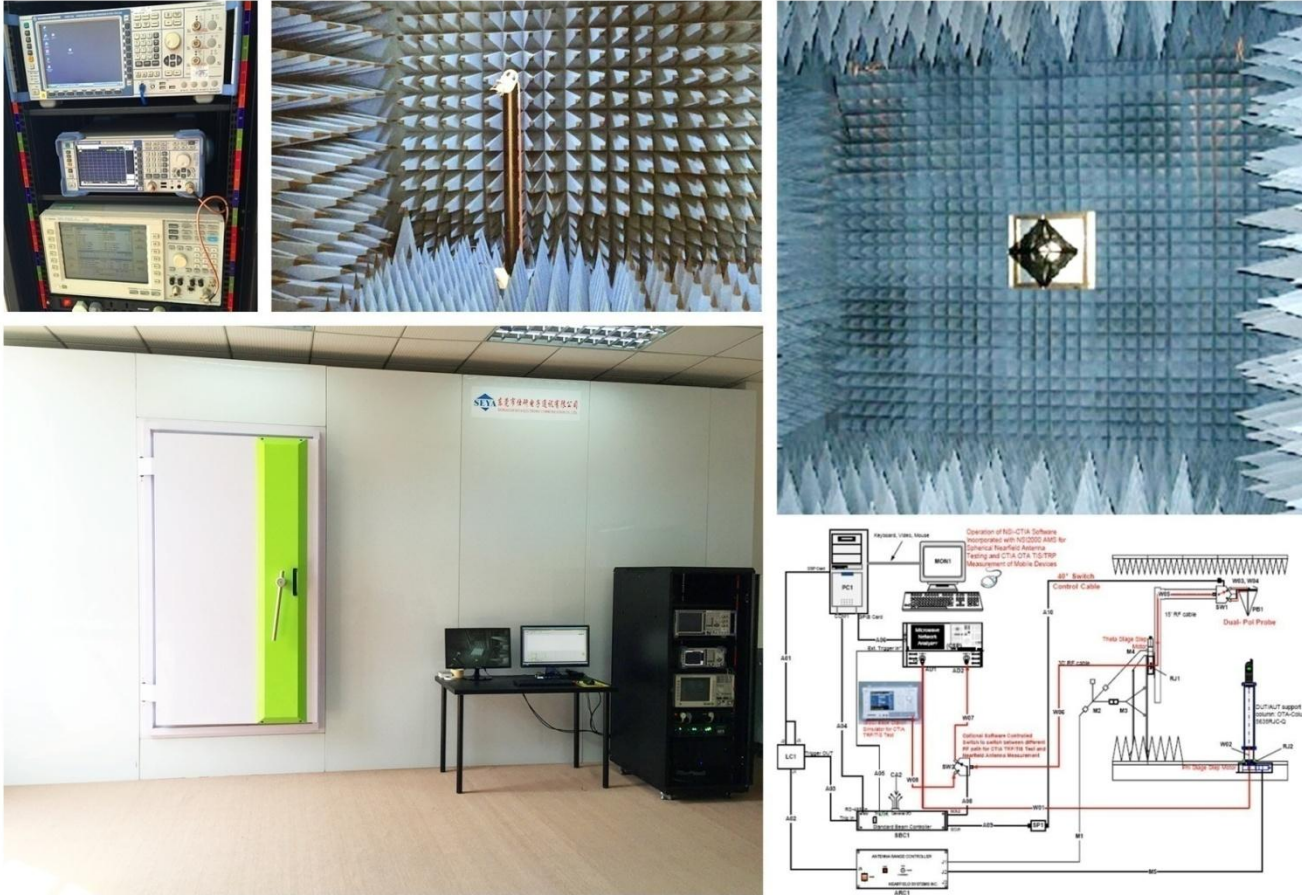
WiFi+BT Antenna Parameter Testing Report)

Customer :		Report Date	2022.07.11
Project		Report Version	2.0
Product Description	WIFI*2 Antenna	Prepared by	
Sample Version	A01	Approved by	

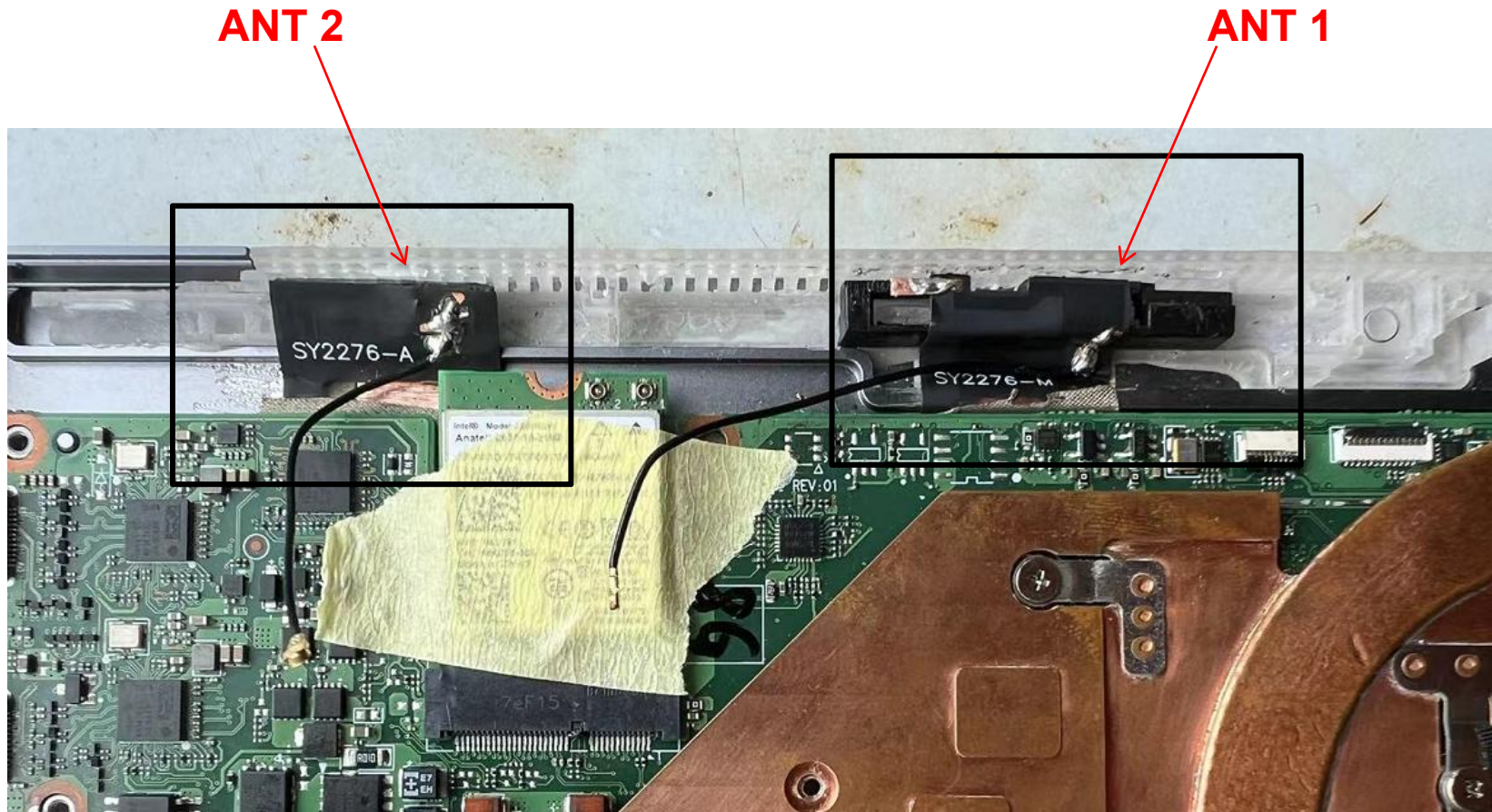
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1. Testing Item & Equipment



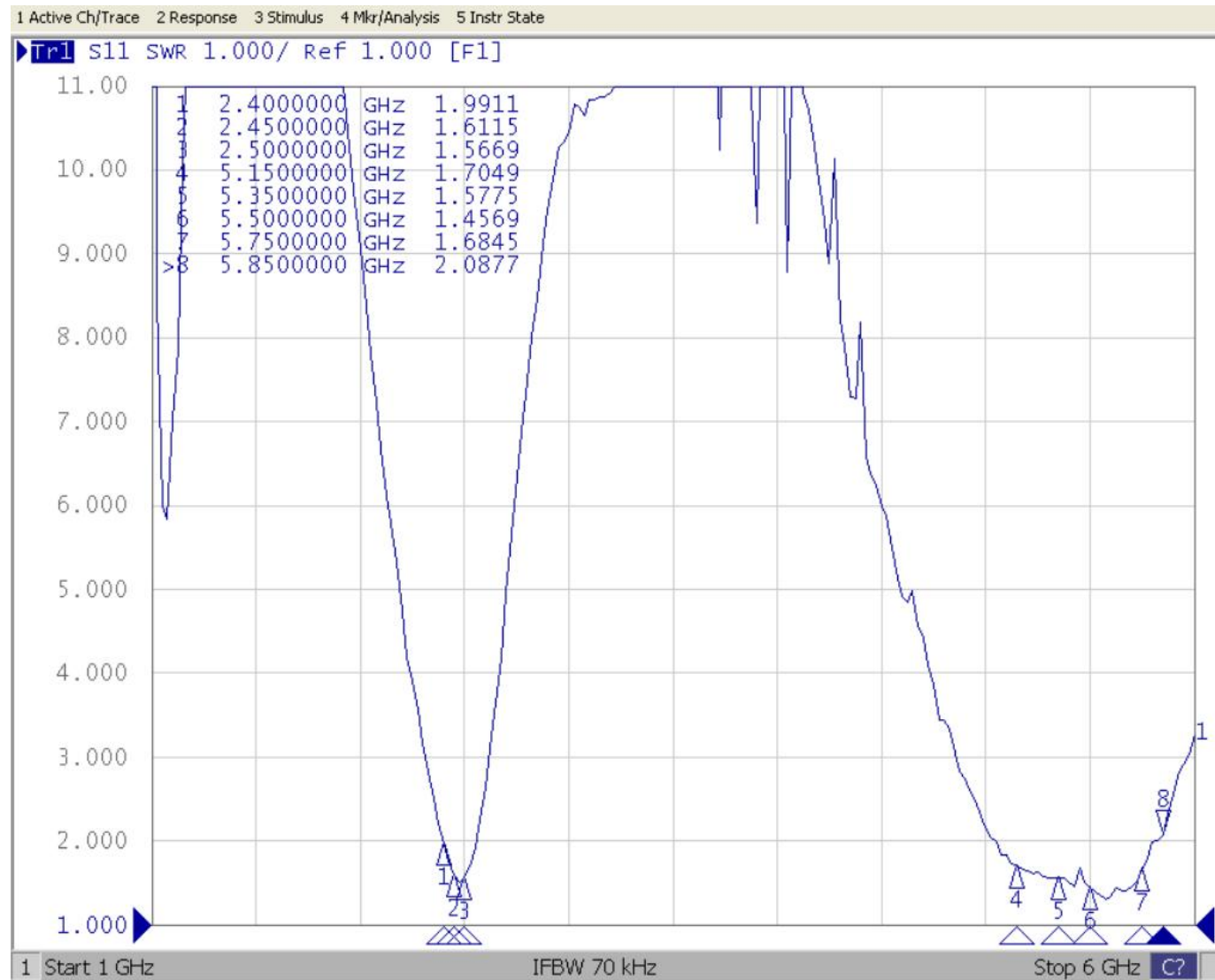
2. Antenna Structure



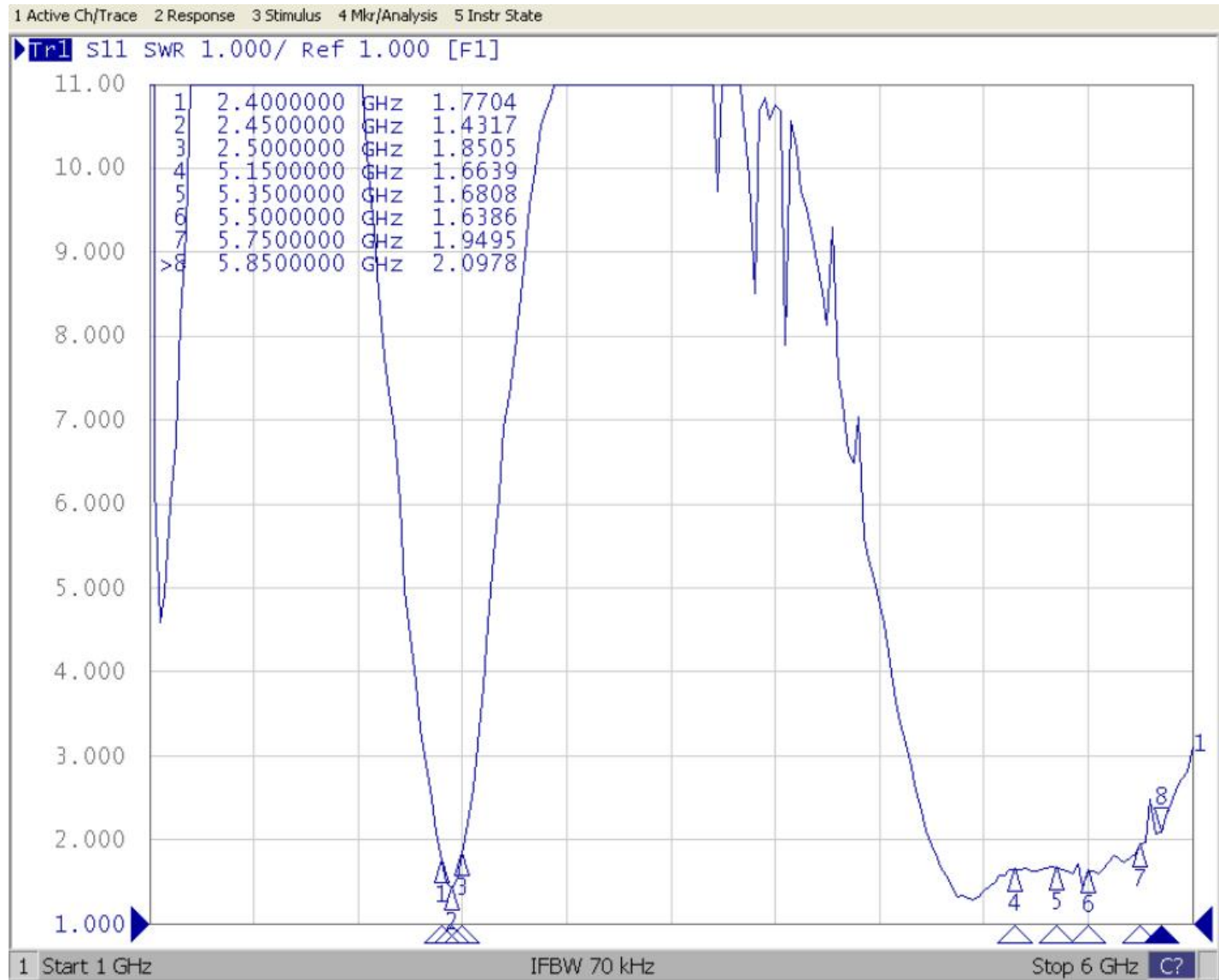
3. Test Data

ANT 1

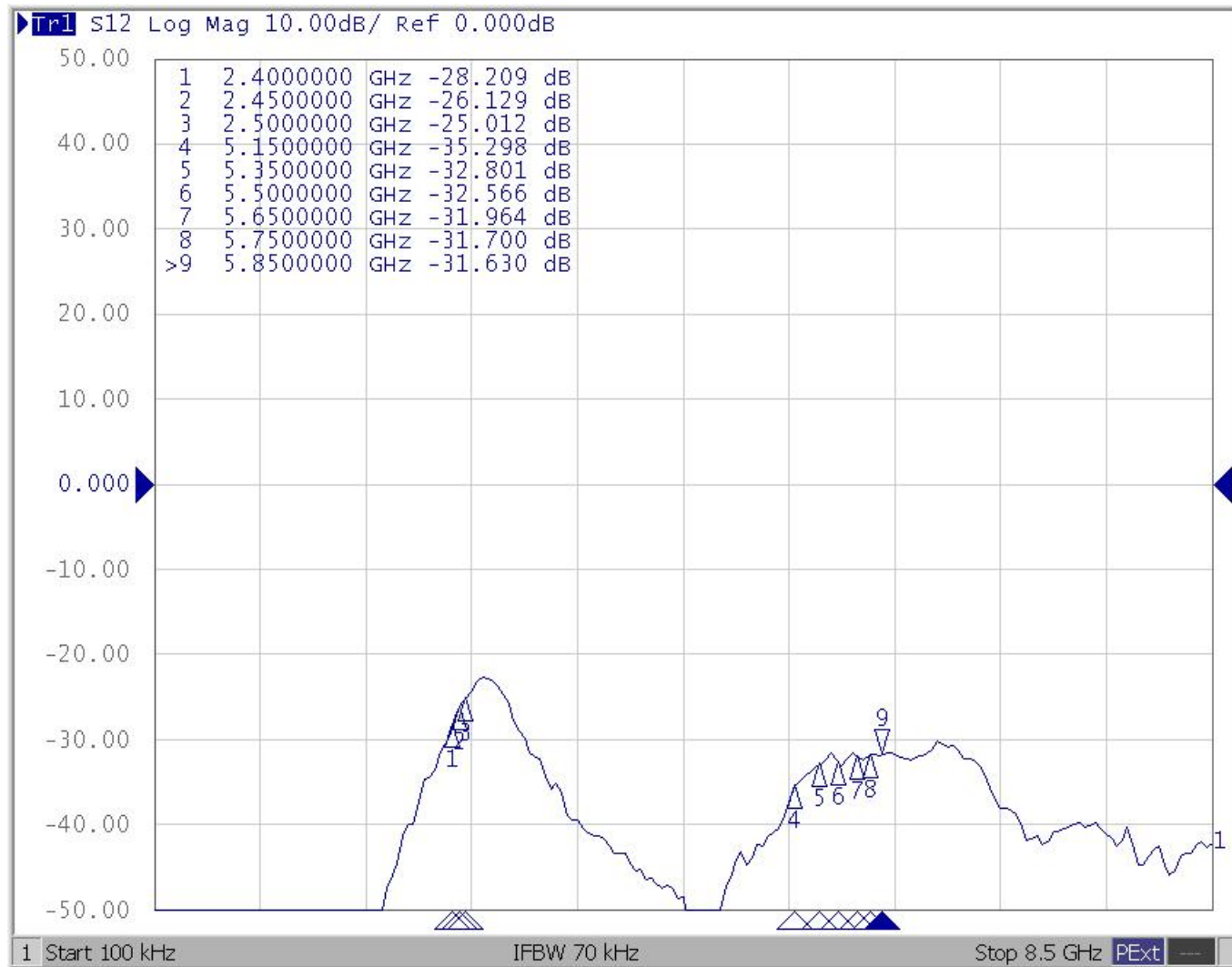
3.1 S-Parameters



ANT 2



ANT 1&ANT 2

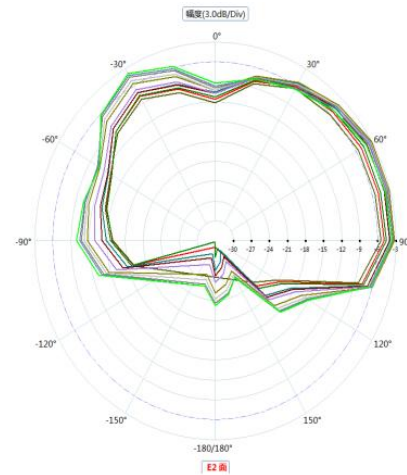
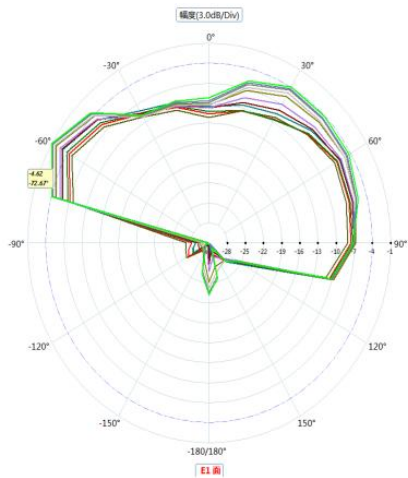
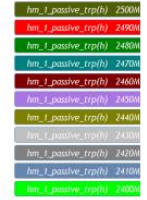
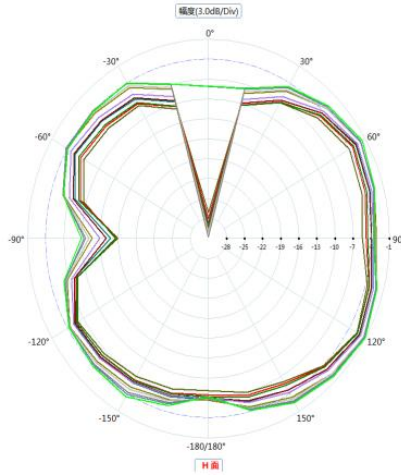
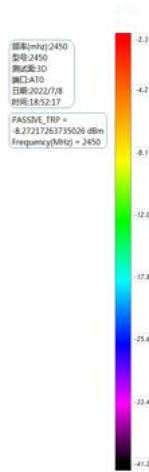
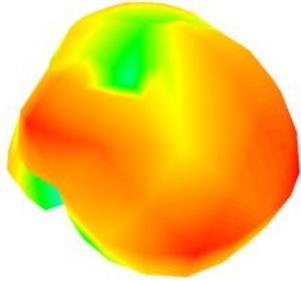


4. Antenna Gain Test

4.1 Antenna Radiation Pattern

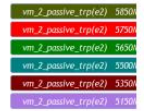
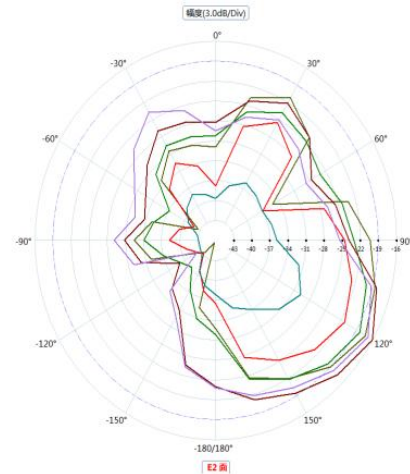
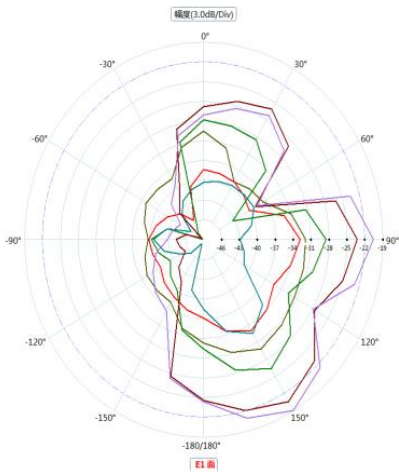
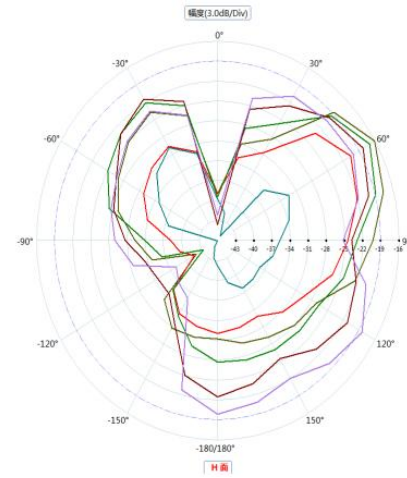
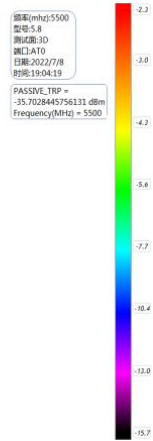
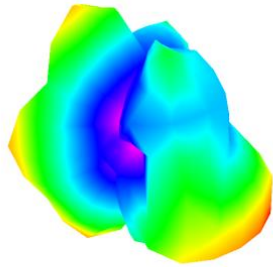
2450MHz

ANT 1



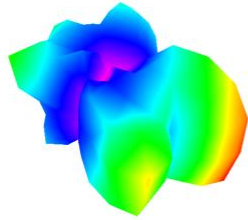
ANT 1

5500MHz

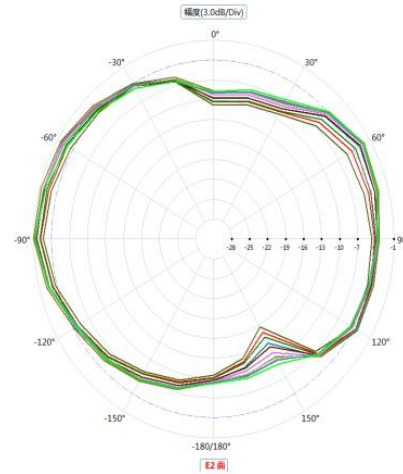
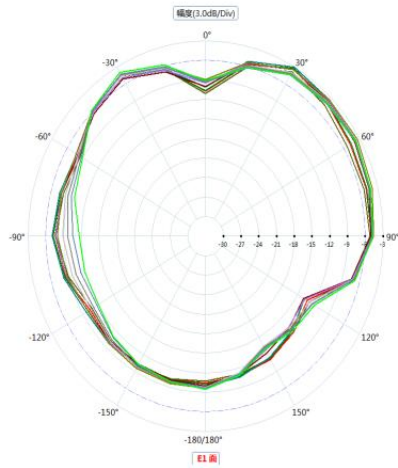
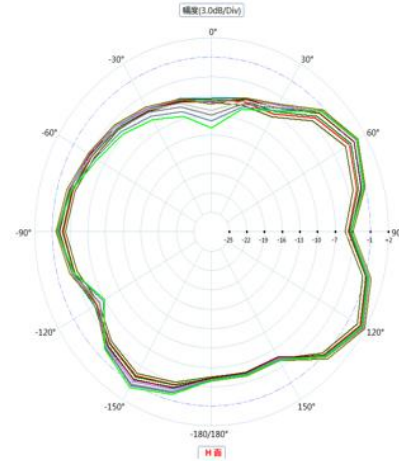
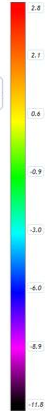


ANT 2

2450MHz

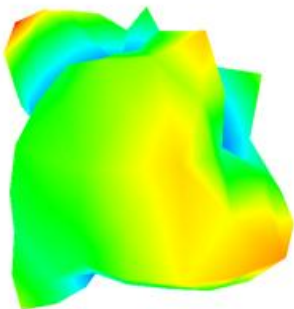


频率(mhz):2450
型号:2400
测试面:30
端口:A10
日期:2022/7/8
时间:19:35:41
PASSIVE_TRP =
-3.66884399543405 dbm
Frequency(MHz) = 2450



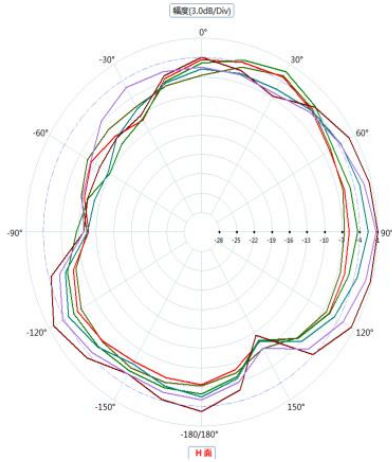
ANT 2

5500MHz

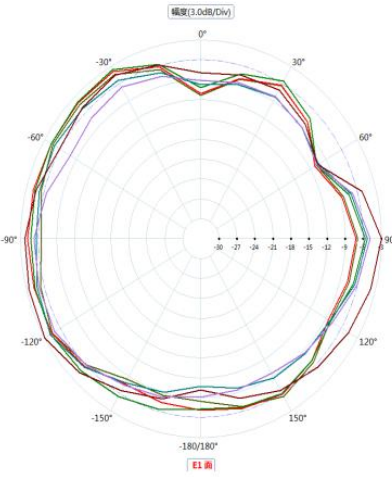


频率(MHz):5500
型号:5.8
测试面:3D
端口:AT0
日期:2022/7/8
时间:19:17:22

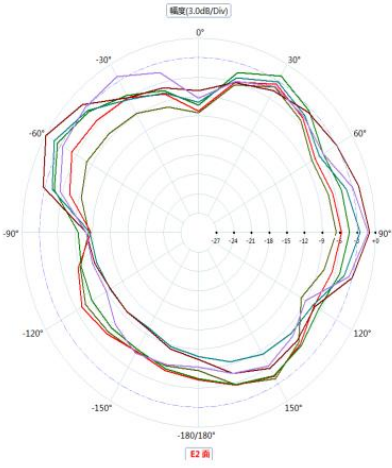
PASSIVE_TRP =
-7.23239917274841 dBm
Frequency(MHz) = 5500



hm_1_passive_trp(h) 5850h
hm_1_passive_trp(h) 5750h
hm_1_passive_trp(h) 5650h
hm_1_passive_trp(h) 5550h
hm_1_passive_trp(h) 5450h
hm_1_passive_trp(h) 5350h



em_1_passive_trp(e1) 5850
em_1_passive_trp(e1) 5750
em_1_passive_trp(e1) 5650
em_1_passive_trp(e1) 5550
em_1_passive_trp(e1) 5450
em_1_passive_trp(e1) 5350



em_2_passive_trp(e2) 5850
em_2_passive_trp(e2) 5750
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em_2_passive_trp(e2) 5550
em_2_passive_trp(e2) 5450
em_2_passive_trp(e2) 5350

4. Antenna Gain Test

_4.2 Gain and Efficiency Test Data

	ANT-1		ANT-2	
Freq (MHz)	Effi (%)	Gain (dBi)	Effi (%)	Gain (dBi)
2400	29.91	-1.34	42.27	2.30
2450	34.89	-2.27	42.95	2.78
2500	30.57	-2.97	37.77	1.04
5150	27.73	-1.87	35.23	-1.11
5350	26.76	-2.04	34.67	-0.27
5500	25.43	-2.20	35.92	-1.82
5650	26.55	-2.35	33.17	-1.56
5750	27.49	-2.48	31.04	-1.28
5850	23.62	-2.6	29.18	-1.94

Conclusion



1. 天线必须与金属地链接来保证天线的稳定性。
2. 天线位置的周围没有净空位置，天线效率会偏低。建议天线主板处多给天线一些净空。
3. 主板与金属壳体都链接。