



RTANT

东莞市安特通信有限公司

Rtant Communications Co., Ltd

天线调试&测试报告

Antenna Commissioning & Test Report

客户customer : RGE

型号model : SDC F543A

天线工程师Antenna Engineer : 李湖南 Li Hunan

日期date : 2024-7-5

版本version : V1.0

项目负责人project leader : 姜磊Jiang lei 15899911229



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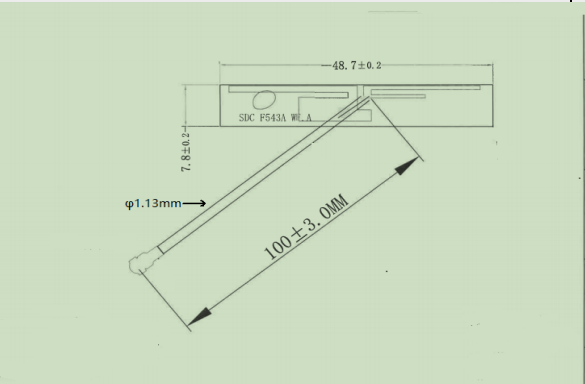
6、 Passive data

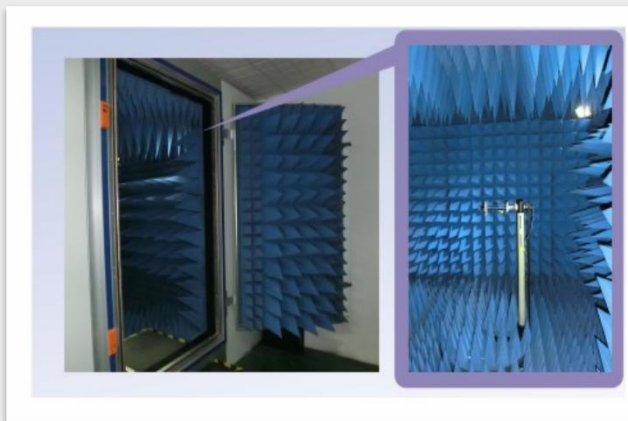
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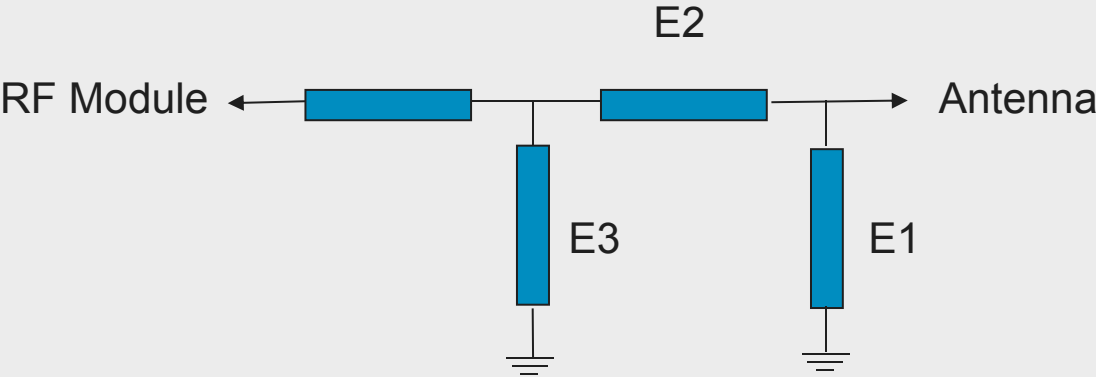
Antenna type And frequency band information	天线种类 Antenna Type	频段信息 Frequency band information	天线形式 antenna form	匹配改动 Match changes
	WIFI BT	2400-2500MHz/5150-5850MHz		NA
天线描述 Antenna description	WIFI/BT φ 1.13 gray L=100MM first generation terminal&terminal mouth facing downwards			
天线材质 Antenna material				





测试项目Test project	测试设备Test equipment
S11、S12、VSWR、LOSS	network analyzer : E5071B、E8753D
Efficiency、Gain、3D Radiation Pattern	Satimo SG16 (darkroom) 、 Top 10 of 7 * 4 * 3 darkrooms in Taiwan 、E5071B、Second generation head
TRP、TIS	Satimo SG16 (darkroom) 、 darkrooms 、 CMW500 、Second generation head

Note: The equipment used for debugging and testing in this project is marked in blue



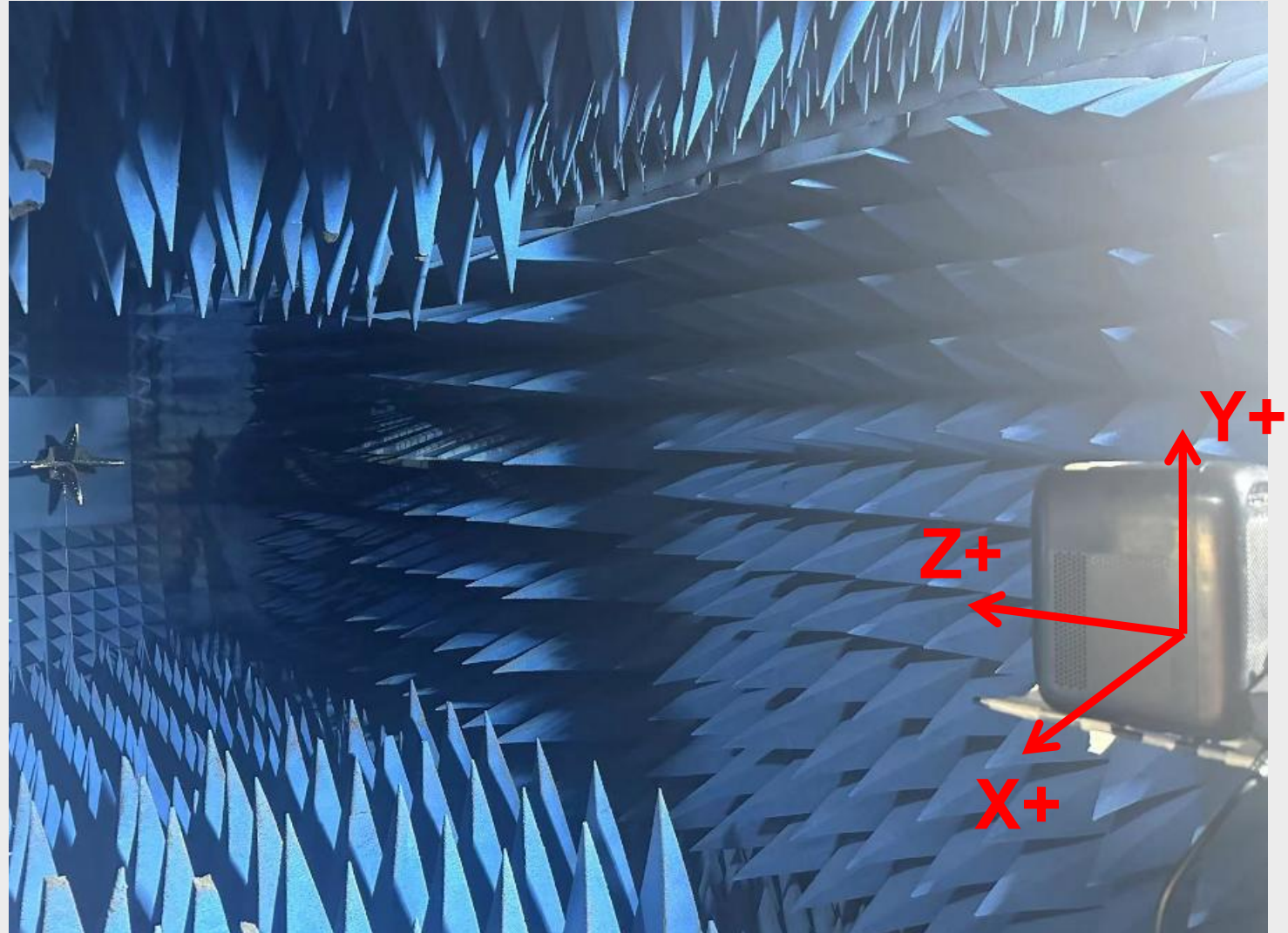
	Element	Value
	E1	NA
	E2	0Ω
	E3	NA



4、Coordinate marking of darkroom



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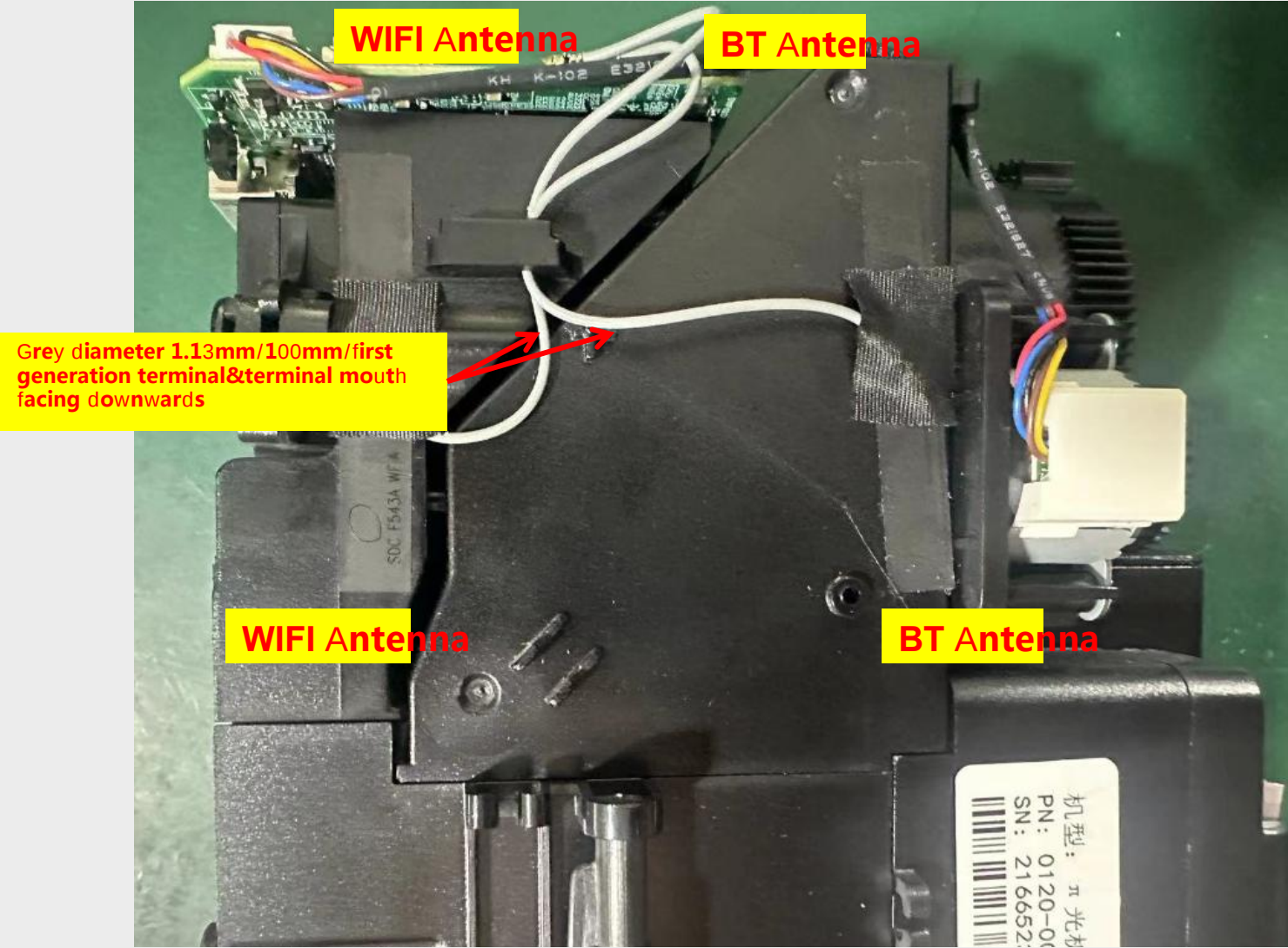


Antenna
placement
position

5. Antenna placement position



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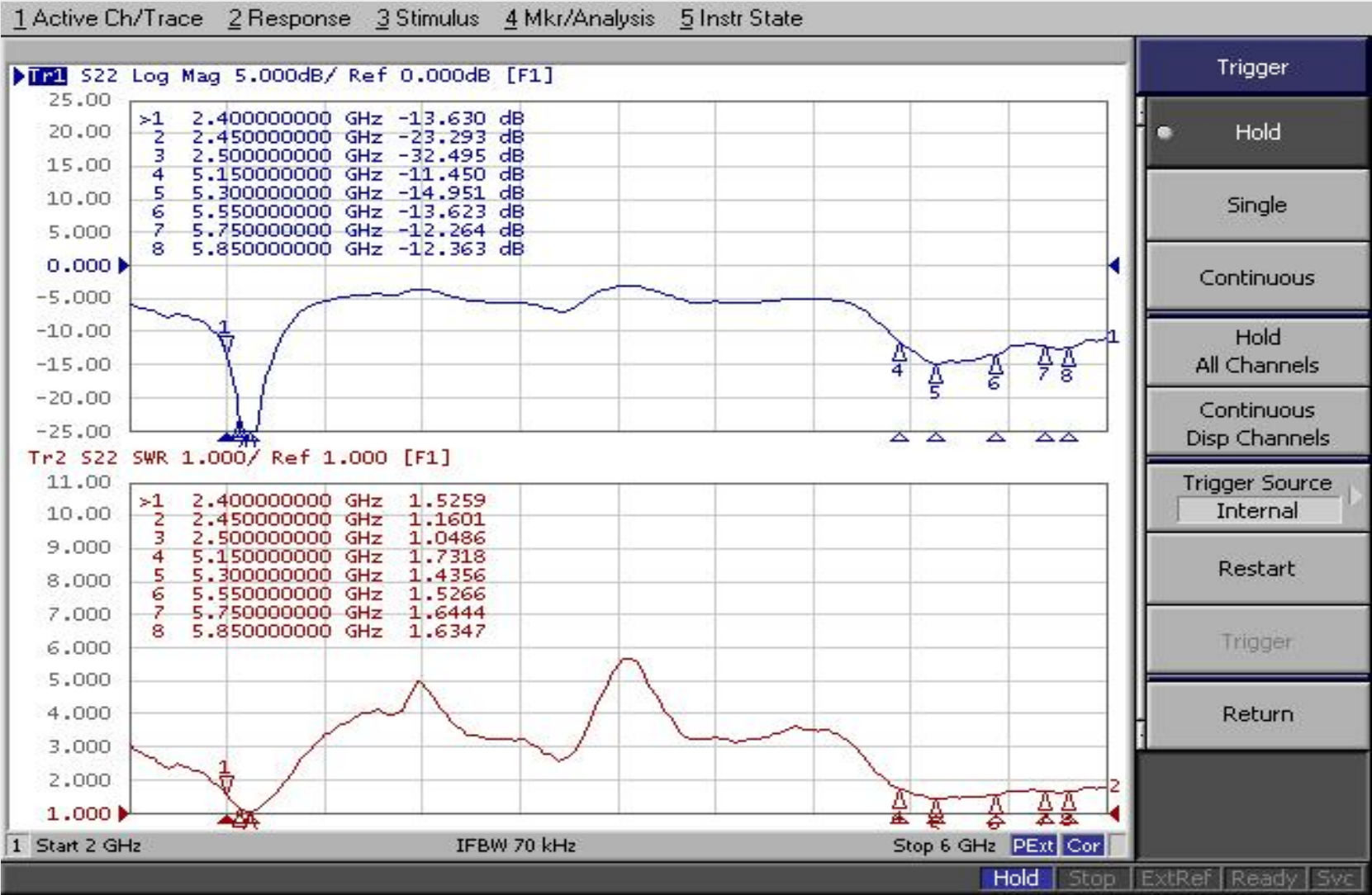
6、Passive data

Passive data



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R-LOSS.VSWR (WIFI)





Passive
data



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Effi / Gain (WIFI)

Frequency	Efficiency (%)	Gain (dBi)	Frequency	Efficiency (%)	Gain (dBi)
2.4GHz	55.67	2.21	5.15GHz	49.36	1.12
2.41GHz	58.24	2.25	5.2GHz	49.4	0.81
2.42GHz	56.36	2.32	5.25GHz	50.15	1.4
2.43GHz	58.03	2.46	5.3GHz	52.83	1.31
2.44GHz	58.03	2.53	5.35GHz	52.1	1.5
2.45GHz	59.53	2.41	5.4GHz	51.62	1.34
2.46GHz	59.09	2.42	5.45GHz	54.48	1.21
2.47GHz	57.28	2.33	5.5GHz	48.12	0.96
2.48GHz	56.43	2.34	5.55GHz	55.81	1.19
2.49GHz	55.75	2.56	5.6GHz	55.91	1.28
2.5GHz	55.85	2.19	5.65GHz	52.28	1.04
			5.7GHz	55.41	0.88
			5.75GHz	57.43	1.04
			5.8GHz	52.52	0.84
			5.85GHz	55.07	0.69

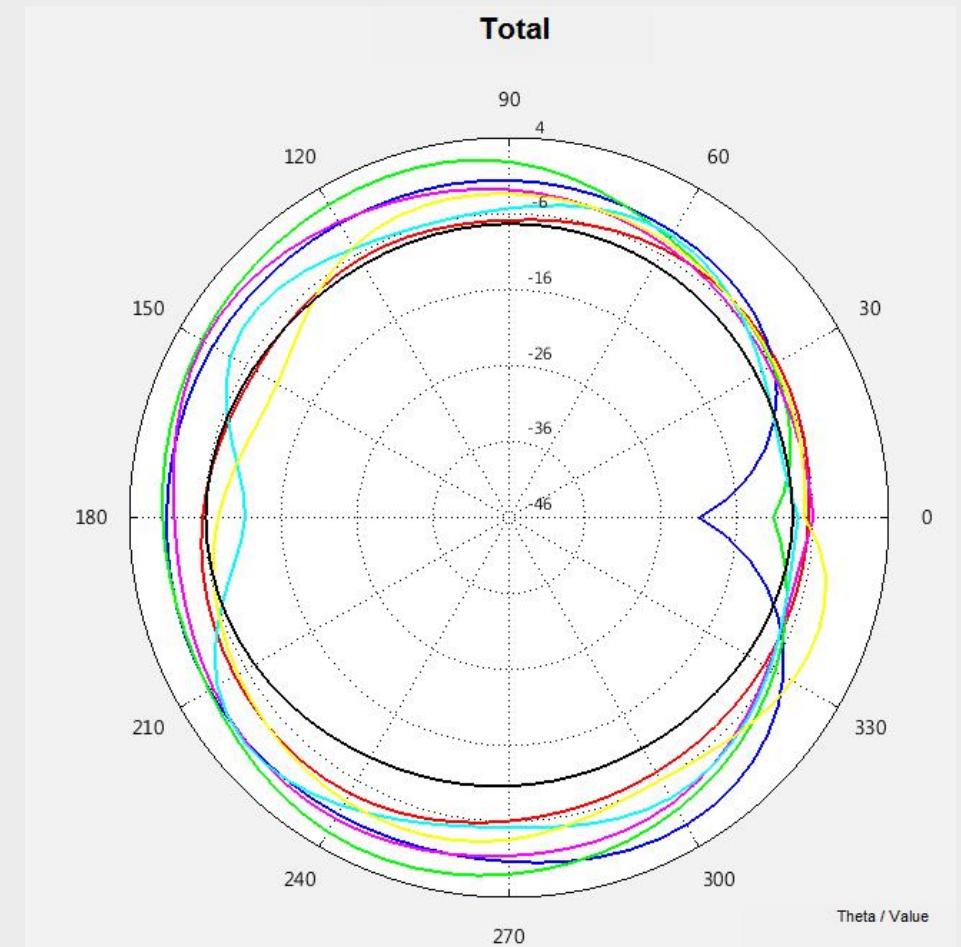
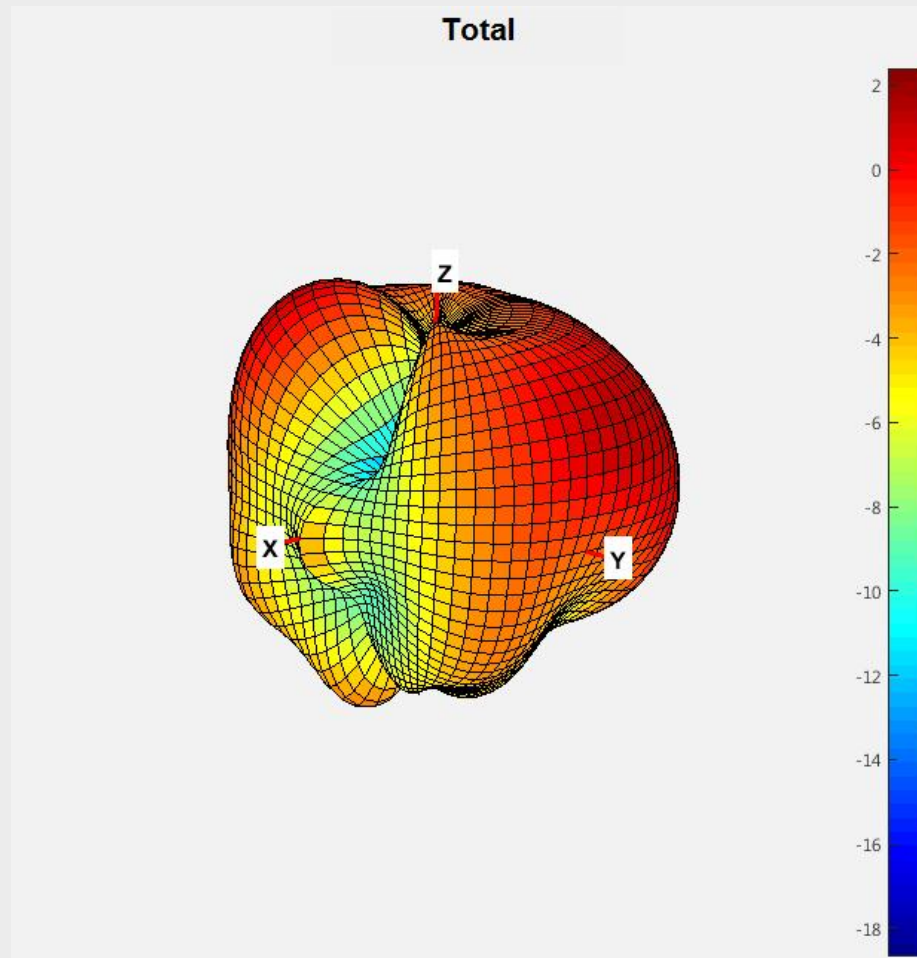


Passive
data

Apple image (WIFI-2450MHz)



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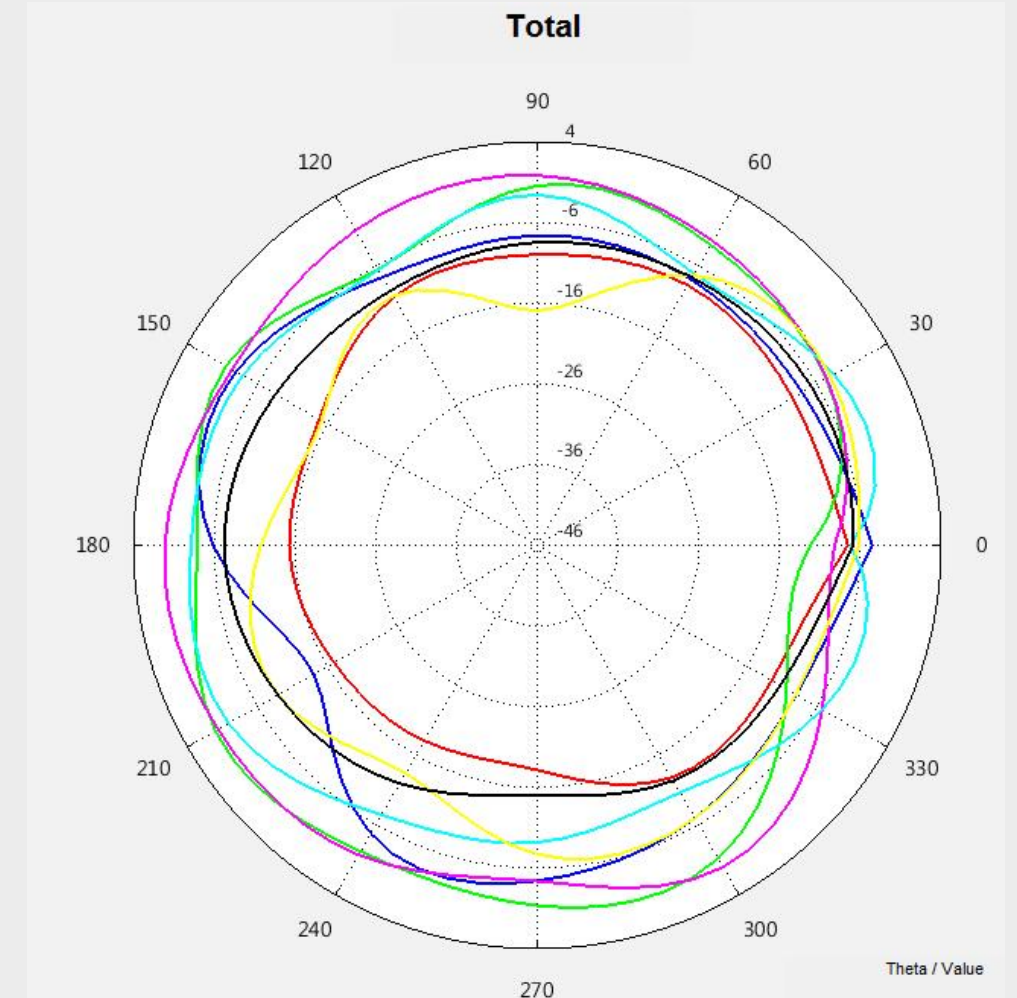
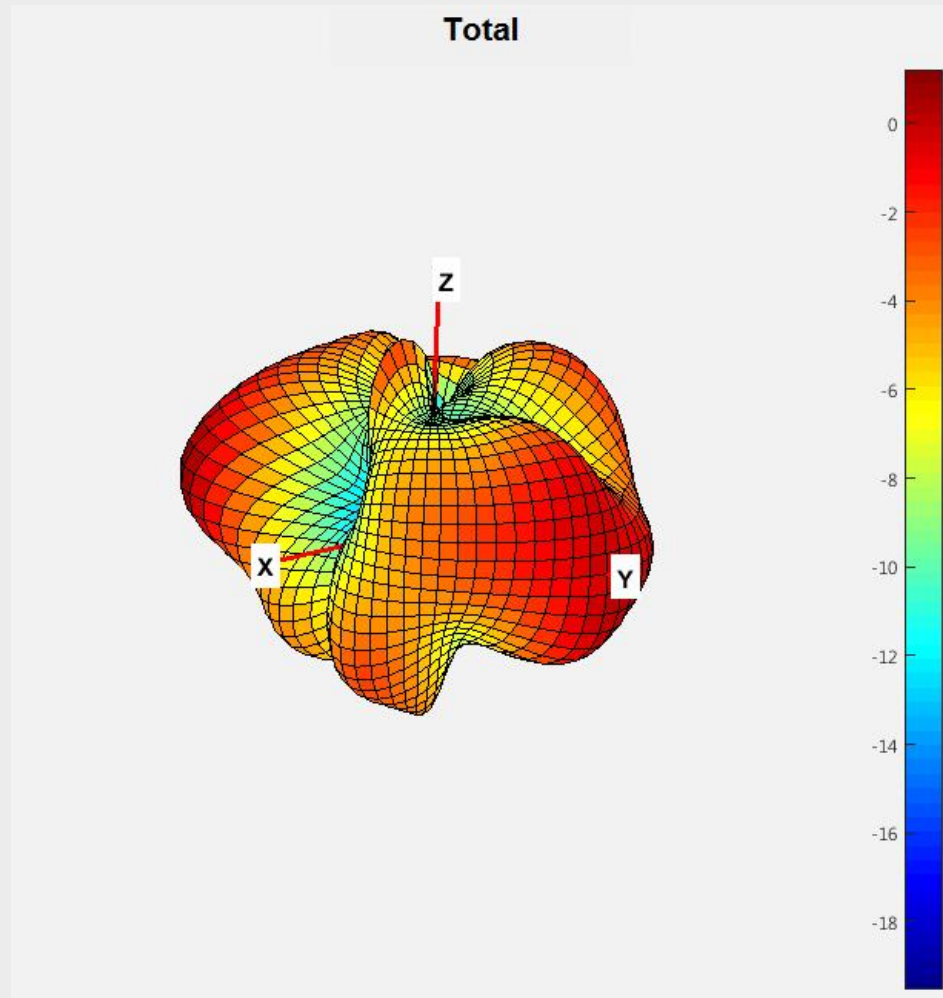


Passive
data



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Apple image (WIFI-5500MHz)



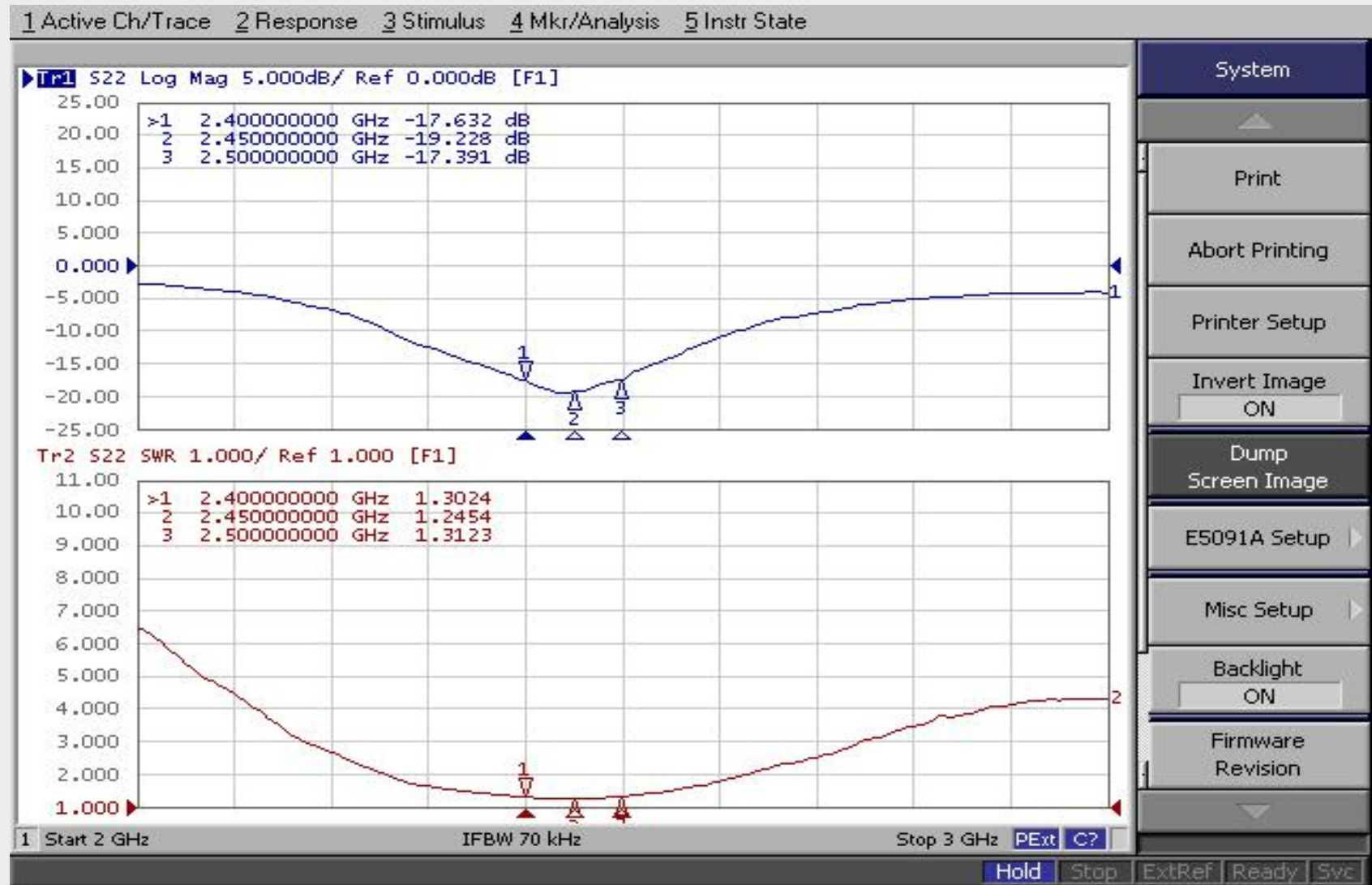


Passive
data

R-LOSS.VSWR (BT)



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Passive
data



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Effi / Gain (BT)

Frequency	Efficiency (%)	Gain (dBi)
2.4GHz	53.63	2.28
2.41GHz	53.99	2.2
2.42GHz	54.65	2.26
2.43GHz	55.13	2.39
2.44GHz	55.12	2.46
2.45GHz	56.3	2.54
2.46GHz	55.09	2.42
2.47GHz	54.13	2.64
2.48GHz	54.28	2.69
2.49GHz	53.49	2.42
2.5GHz	53.77	2.27

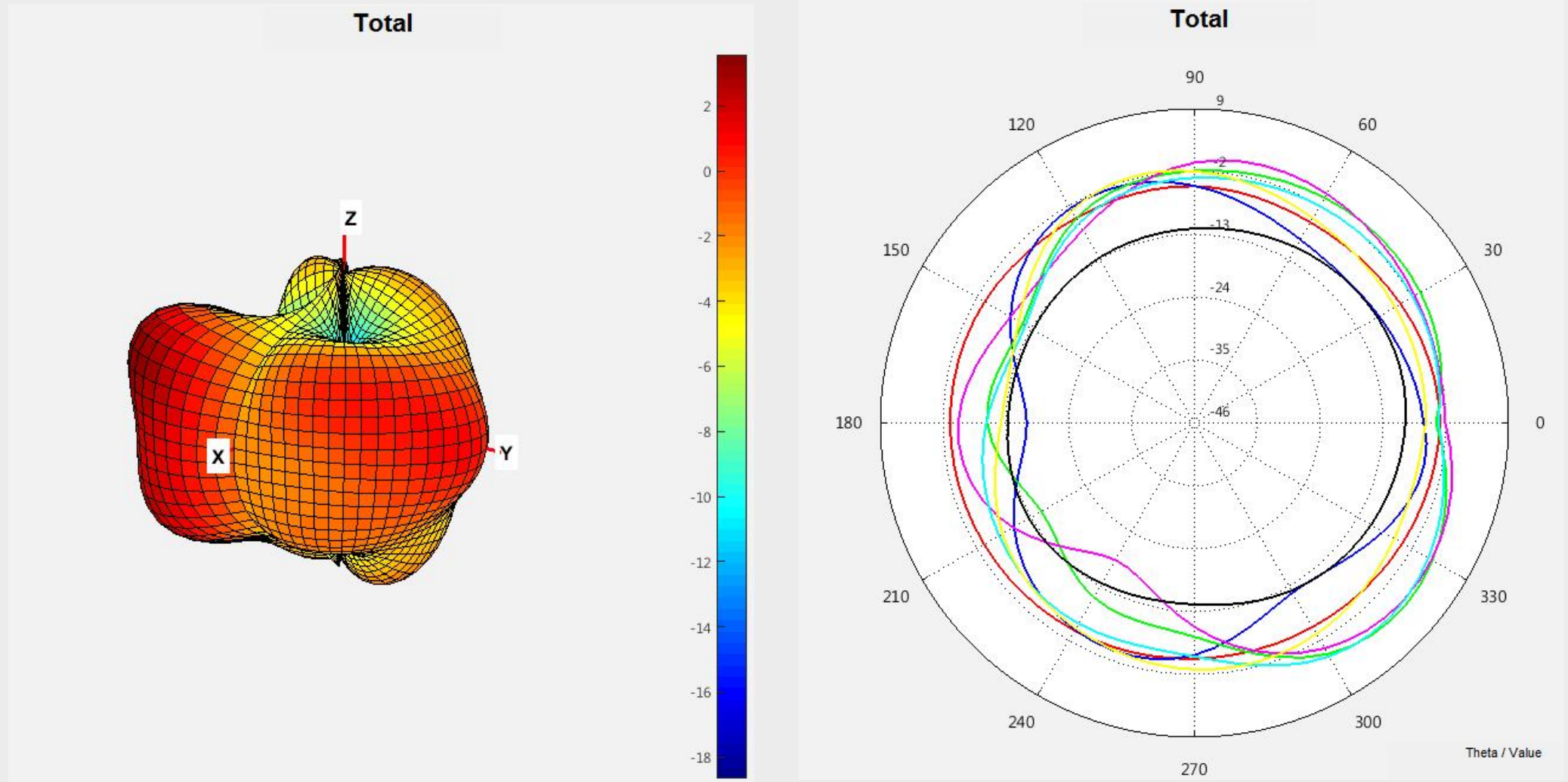


Passive
data

Apple image (BT-2450MHz)



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Active
data

7. Active data



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TEST DATA FOR RADIATED TESTING						
Band	模式 Mode	信道 Channel	速率 (Mbps) speed	TRP	速率 (Mbps) speed	TIS
2.4G	802.11b	1	11M	16.52	11M	-79.22
		6		16.85		-79.8
		13		16.46		-79.36
5.8G	802.11a	36	6M	10.82	54M	-80.79
		149		8.68		-80.85
		165		8.45		-80.53

联系方式contact information

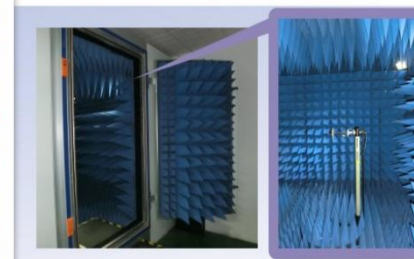
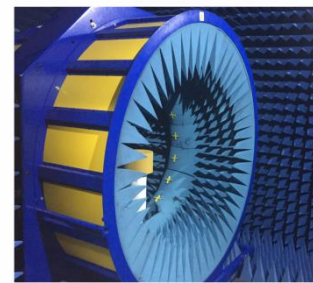


成立
11年

专注
无线

设计
研发

制造



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联系方式 c o n t a c t i n f o r m a t i o n - 姜磊 Jianglei

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Thank you for your trust in Rtant