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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

Manufacturer: Shenzhen DOKE Electronic Co., Ltd
Manufacturer Address: 801, Building 3, 7th Industrial
Zone, Yulv Community, Yutang Road, Guangming
District, Shenzhen, China.



Introduction Project Debugging

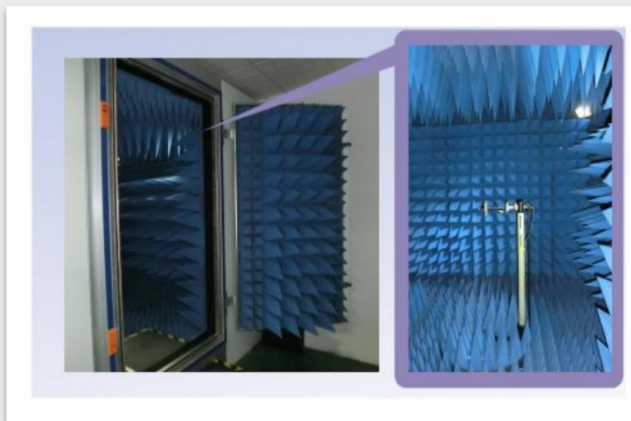


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Overall machine type				
Antenna types and frequency band information	Type antenna	Frequency band information	Antenna form	Match modifications
	BT&WIFI	2400-2500MHz/5150-5850MHz		
Antenna description	WIFI antenna ϕ 1.13 Gray L=100MM First-generation terminals & terminal ports facing downward			
Antenna material				



Laboratory testing environment and equipmentRTANT



Testing items	Testing equipment
S11、 S12 、 VSWR 、 LOSS	Network analyzer E5071B, E8753D
Efficiency、 Gain、 3D Radiation Pattern	Satimo SG16 darkroom, Taiwan's top 10 7*4*3 darkroom, E5071B, second-generation head model
TRP、 TIS	Satimo SG16 darkroom, one of the top ten darkrooms in Taiwan, CMW500, second-generation head model

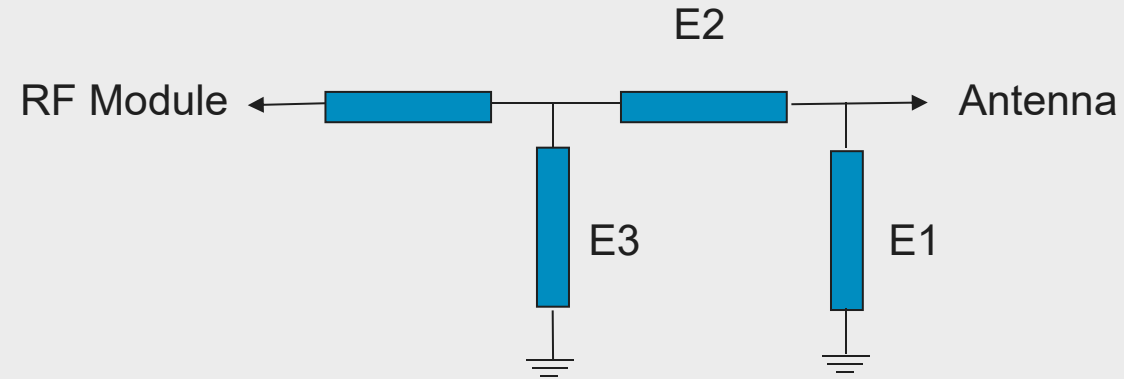
Note: The equipment used for the debugging and testing of this project is marked in blue.



Antenna matching circuit



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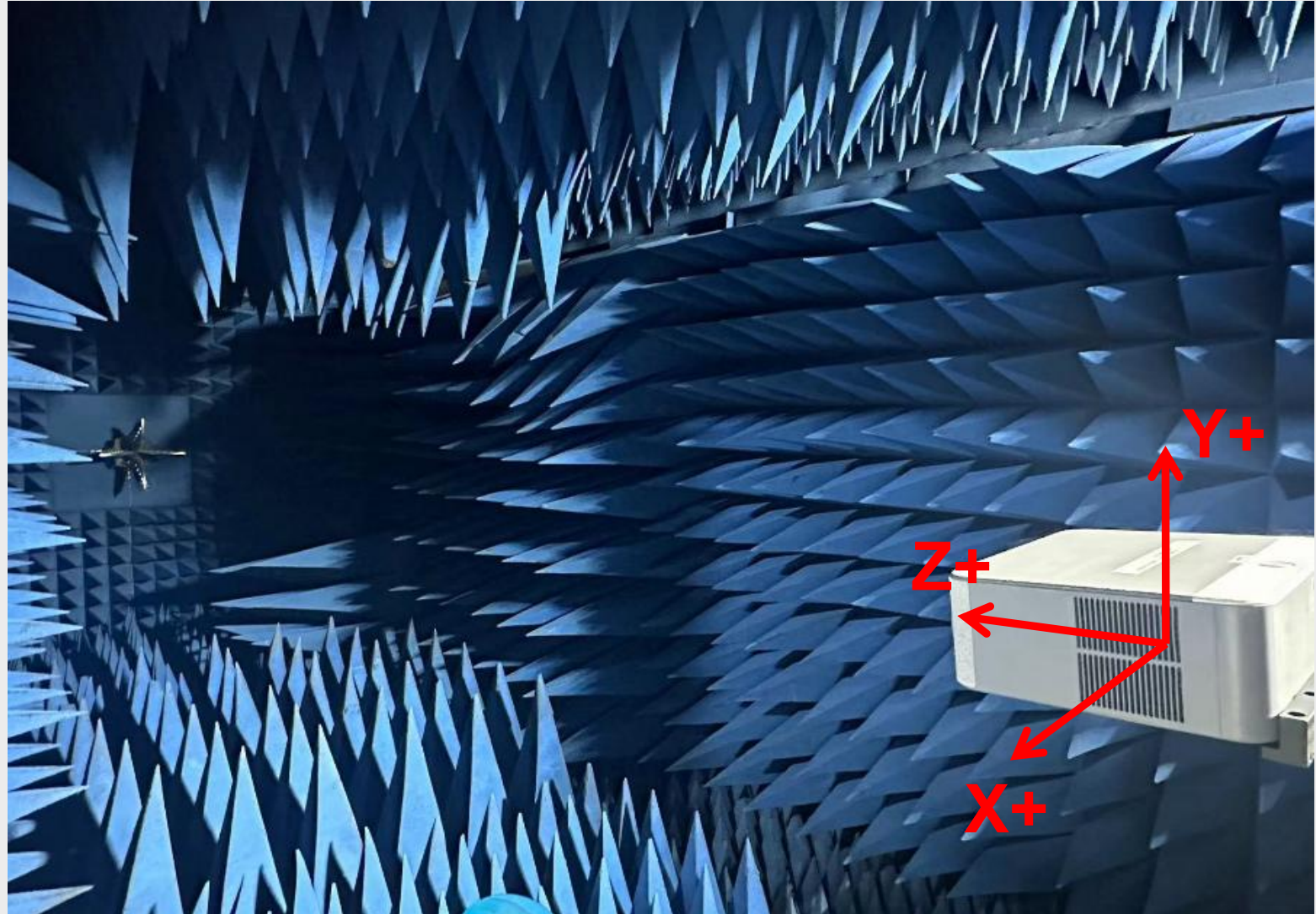
	Element	Value
	E1	No
	E2	0 Ω
	E3	No



Darkroom coordinate marking



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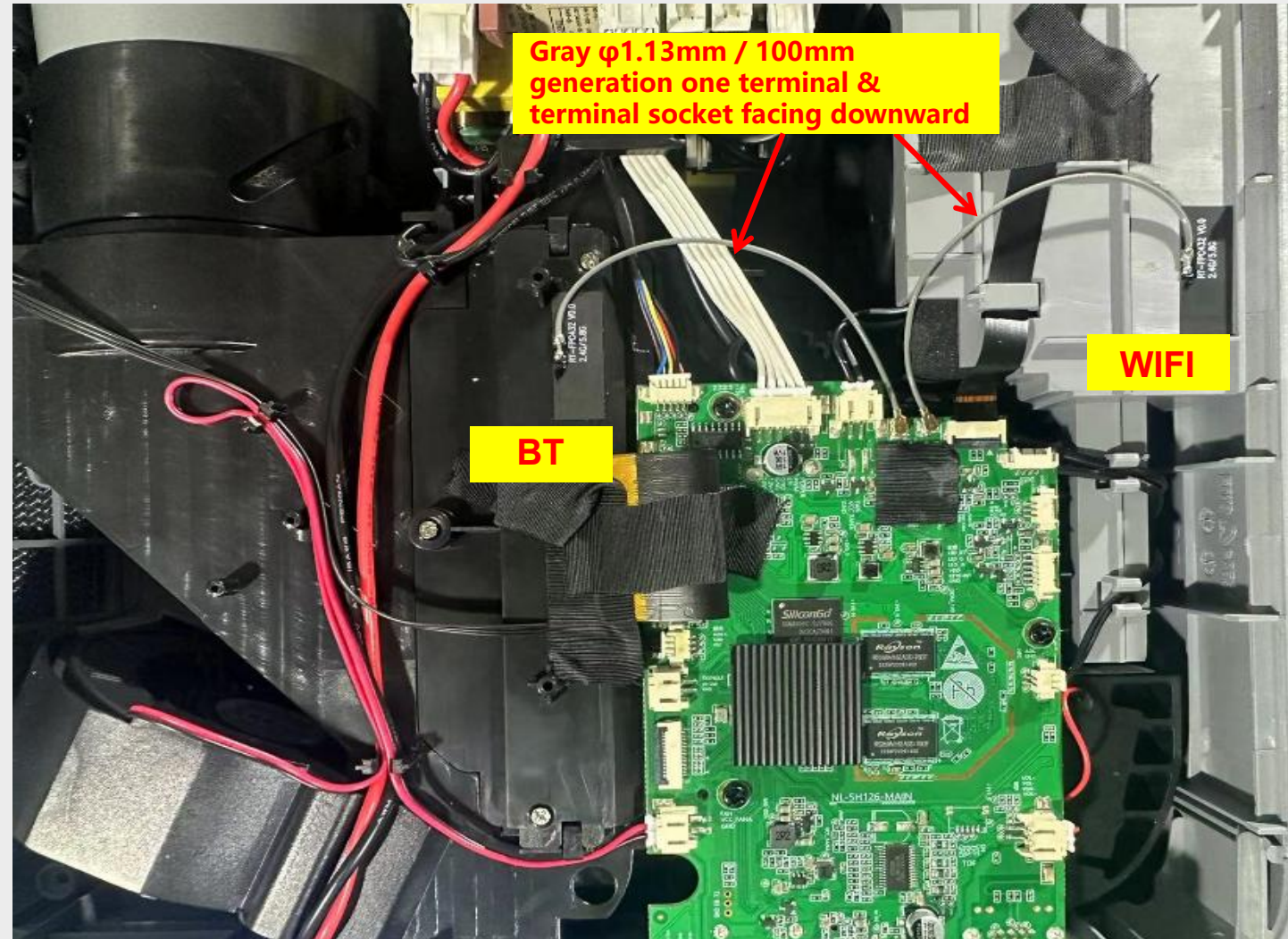




Antenna placement position



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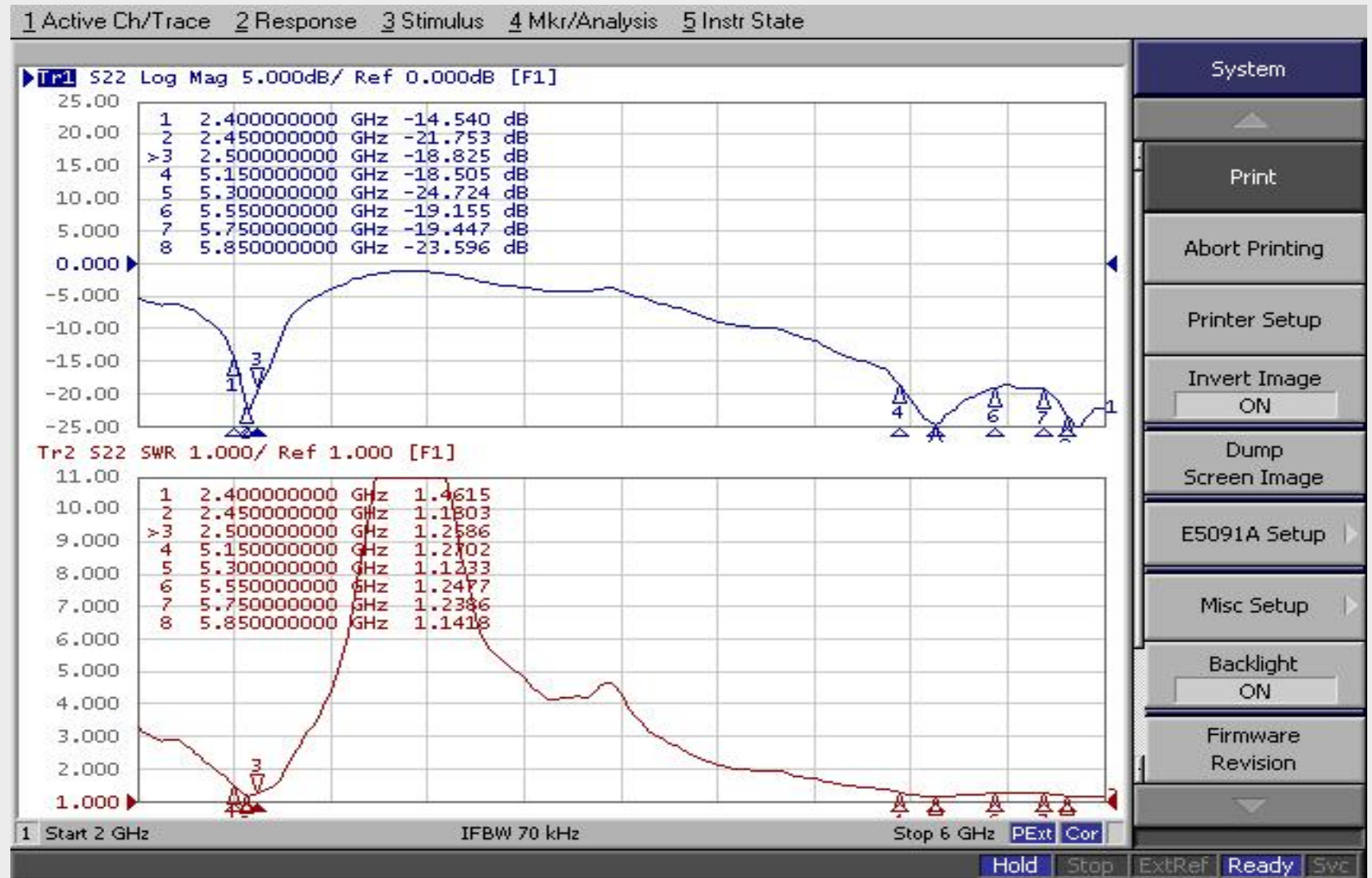


Passive data

R-LOSS.VSWR (BT)



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Effi / Gain (BT)

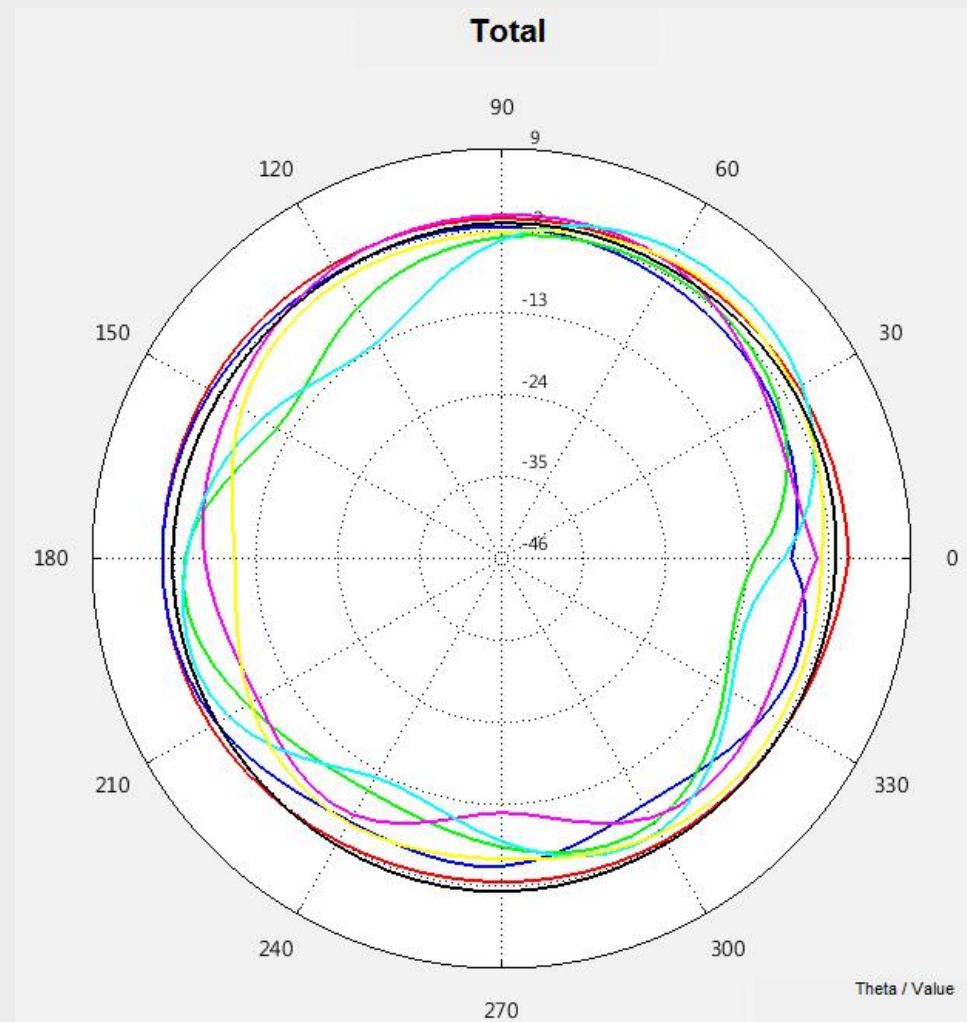
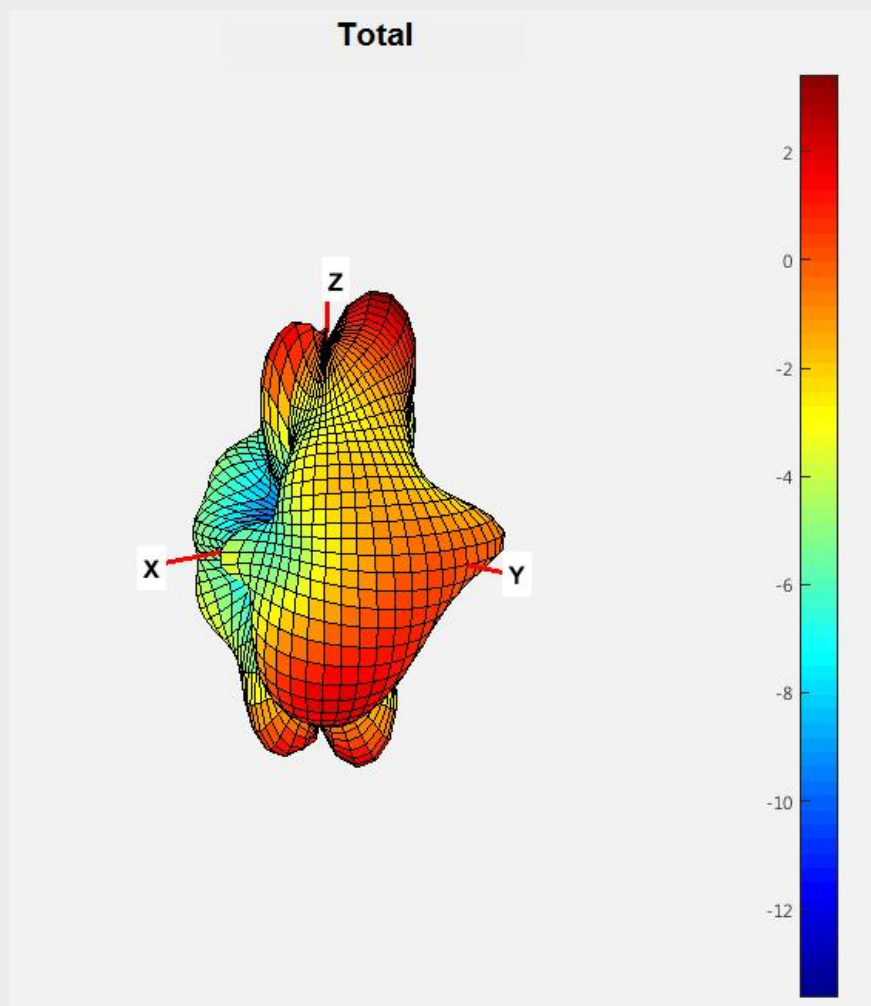
Frequency	Efficiency (%)	Gain (dBi)
2.4GHz	50.5	2.29
2.41GHz	51.24	2.22
2.42GHz	52.4	2.31
2.43GHz	52.66	2.39
2.44GHz	53.24	2.42
2.45GHz	55.66	2.37
2.46GHz	53.05	2.37
2.47GHz	53.39	2.3
2.48GHz	52.18	2.29
2.49GHz	52.45	2.12
2.5GHz	51.95	2.12



(2450MHz)



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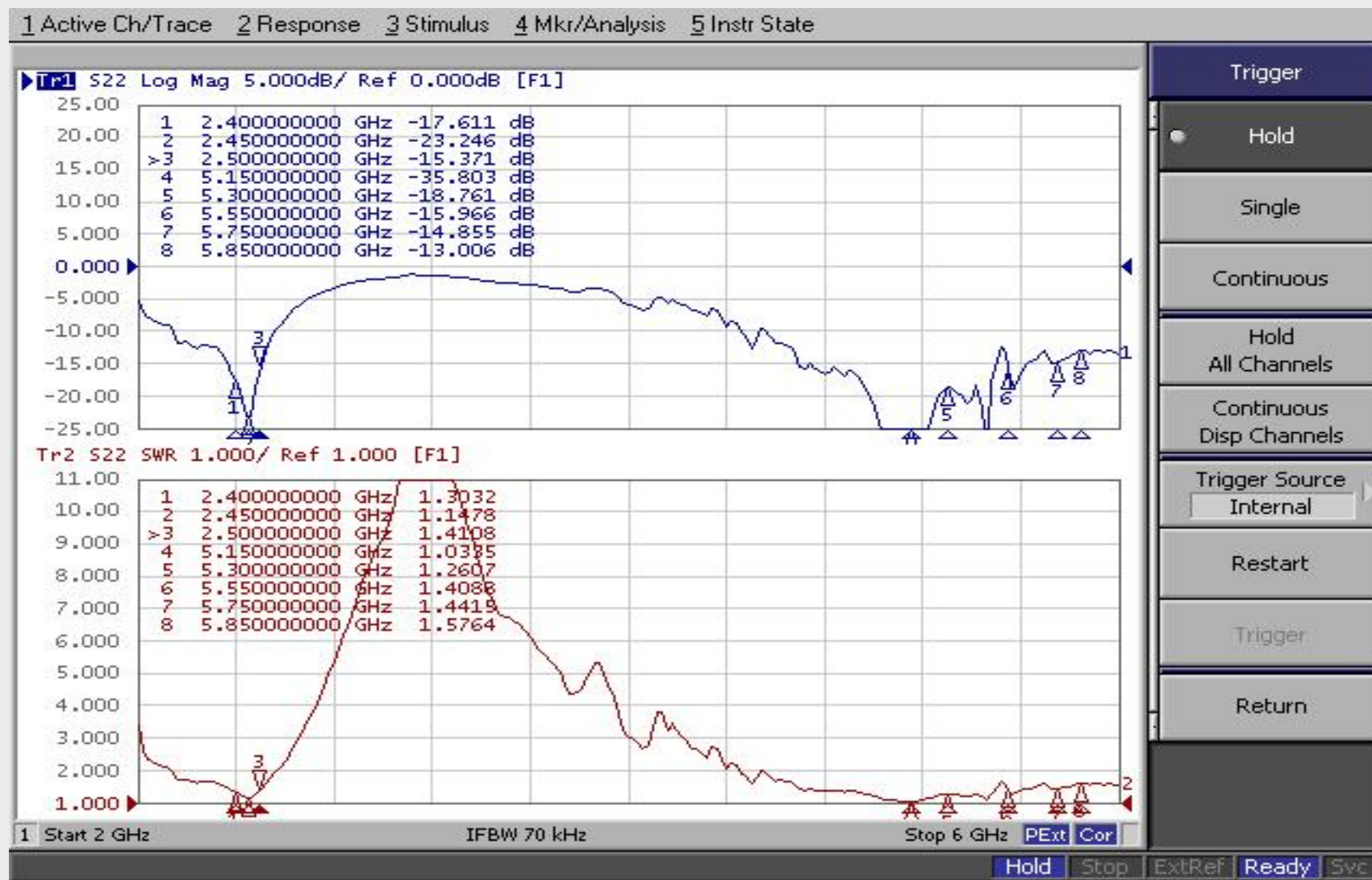




R-LOSS.VSWR (WIFI)



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Effi / Gain (WIFI)

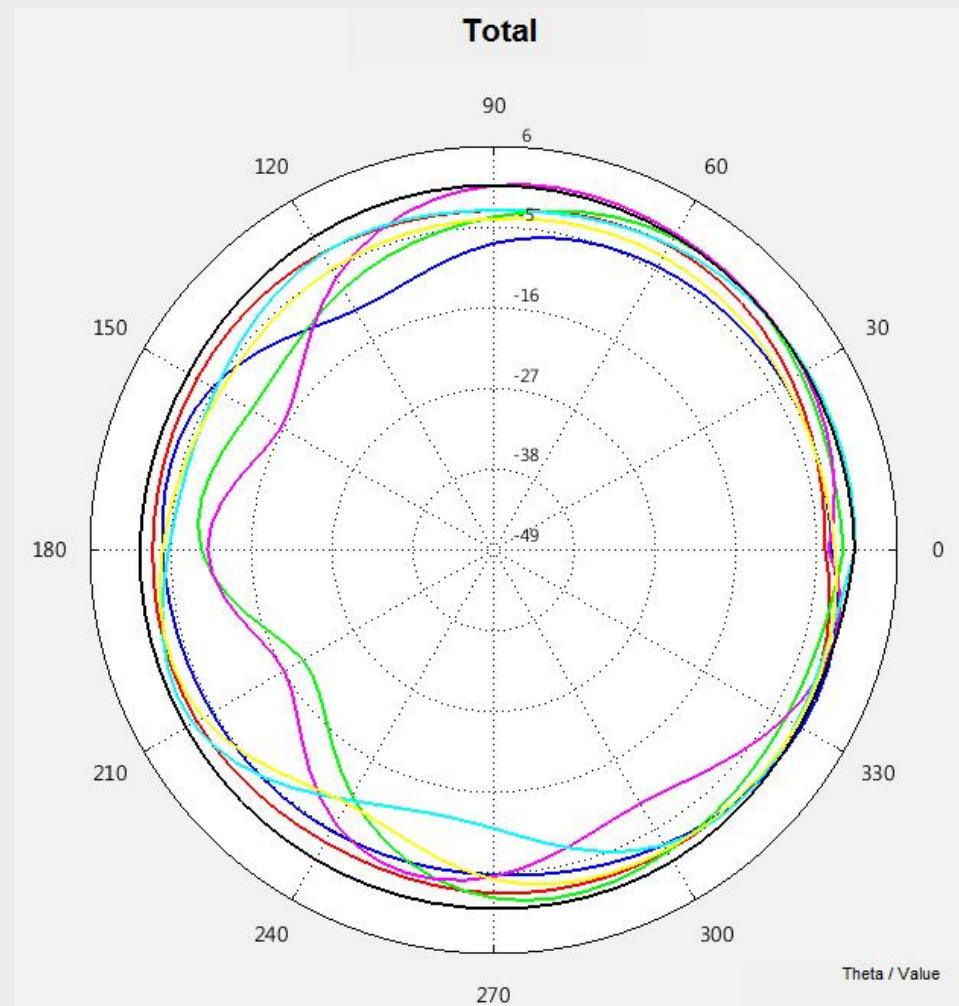
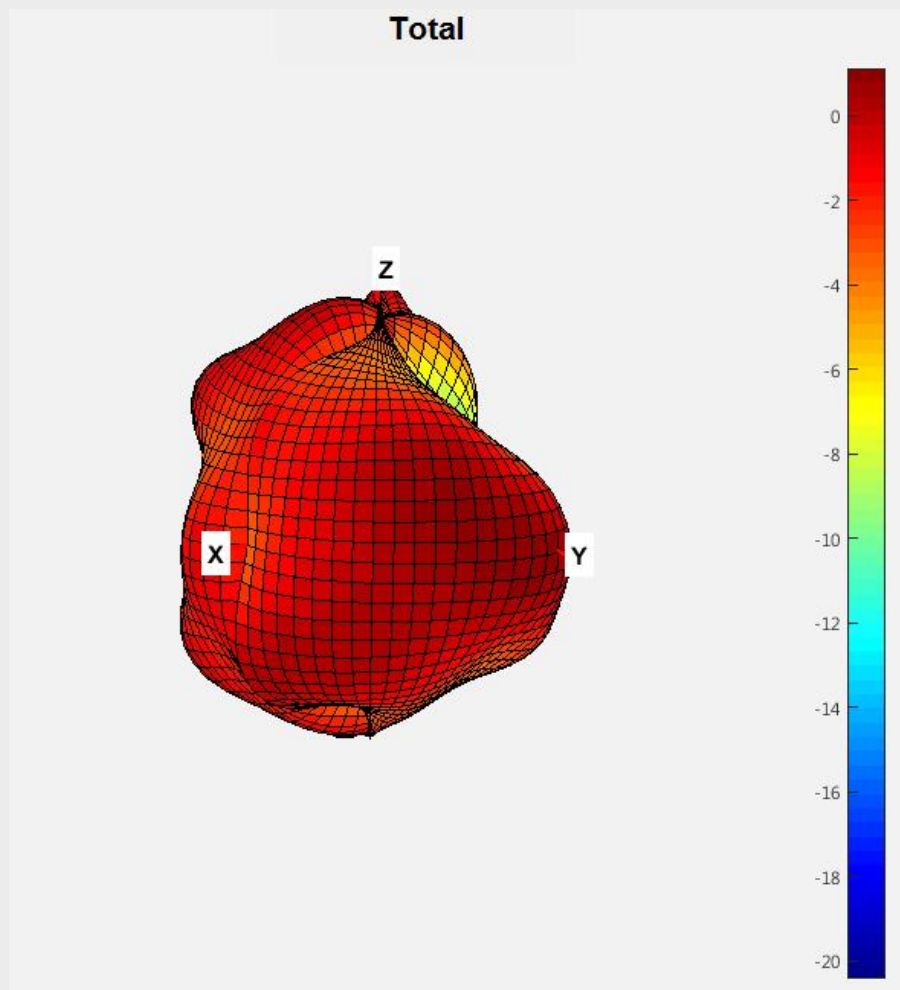
Frequency	Efficiency (%)	Gain (dBi)	Frequency	Efficiency (%)	Gain (dBi)
2.4GHz	53.91	1.4	5.15GHz	53.28	2.53
2.41GHz	53.96	1.31	5.2GHz	54.64	2.32
2.42GHz	56.35	1.5	5.25GHz	52.9	2.62
2.43GHz	55.36	1.36	5.3GHz	52.2	2.44
2.44GHz	56.25	1.42	5.35GHz	49.54	1.62
2.45GHz	55.76	1.57	5.4GHz	51.26	1.44
2.46GHz	57.42	1.49	5.45GHz	51.26	1.59
2.47GHz	55.61	1.73	5.5GHz	50.11	1.42
2.48GHz	54.35	1.55	5.55GHz	55.53	1.36
2.49GHz	54.76	1.44	5.6GHz	54.72	1.71
2.5GHz	53.32	1.33	5.65GHz	49.83	1.43
			5.7GHz	51.34	2.25
			5.75GHz	53.88	2.28
			5.8GHz	48.12	1.89
			5.85GHz	49.64	2.07



(WIFI 2450MHz)



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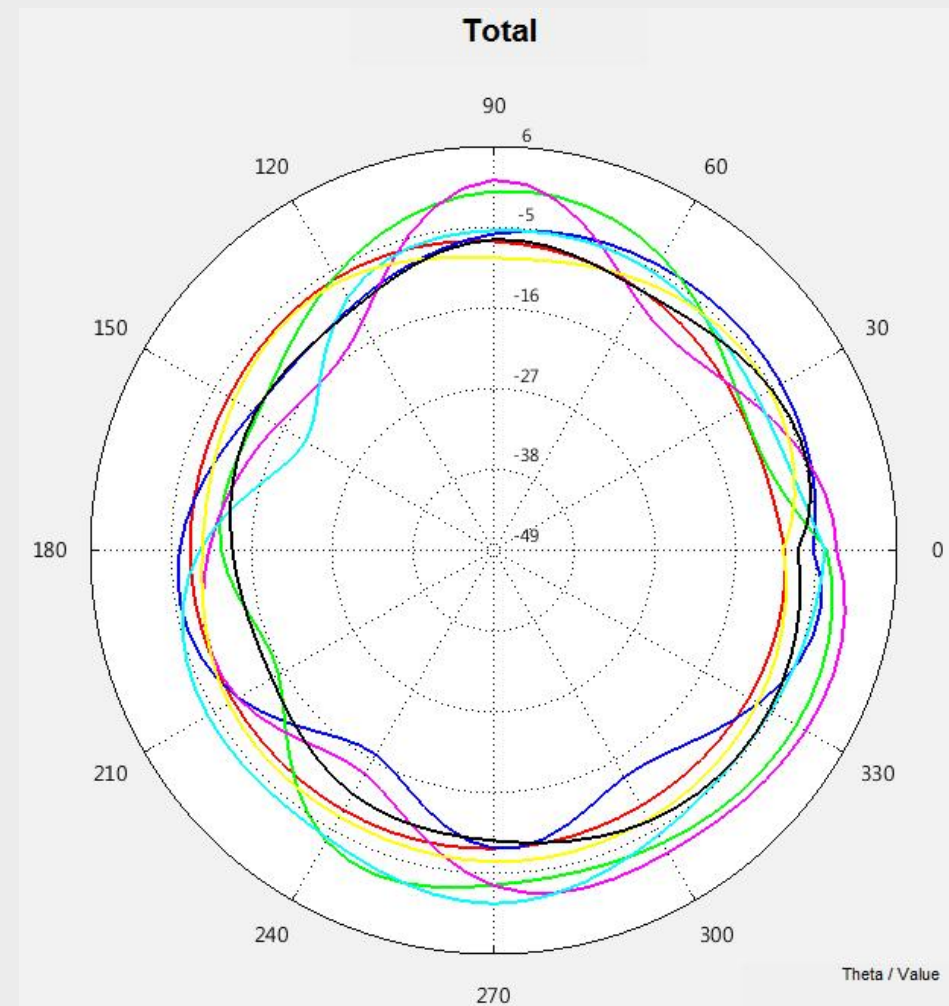
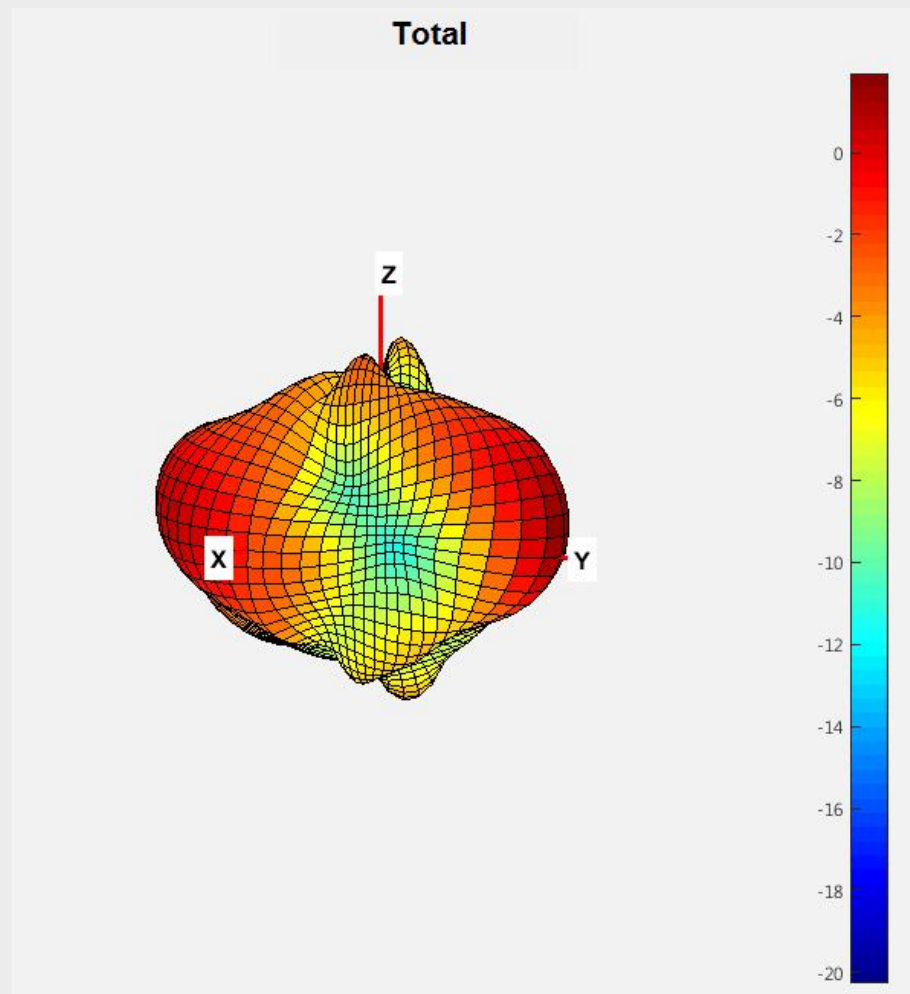




(WIFI 5500MHz)



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Thank you for your trust in Rtant