



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 : 瑞格尔
项目 : F600
天线工程师 : 李湖南
日期 : 2024-8-10
版本 : V1.0
项目负责人 : 姜磊 15899911229



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项目调试简介



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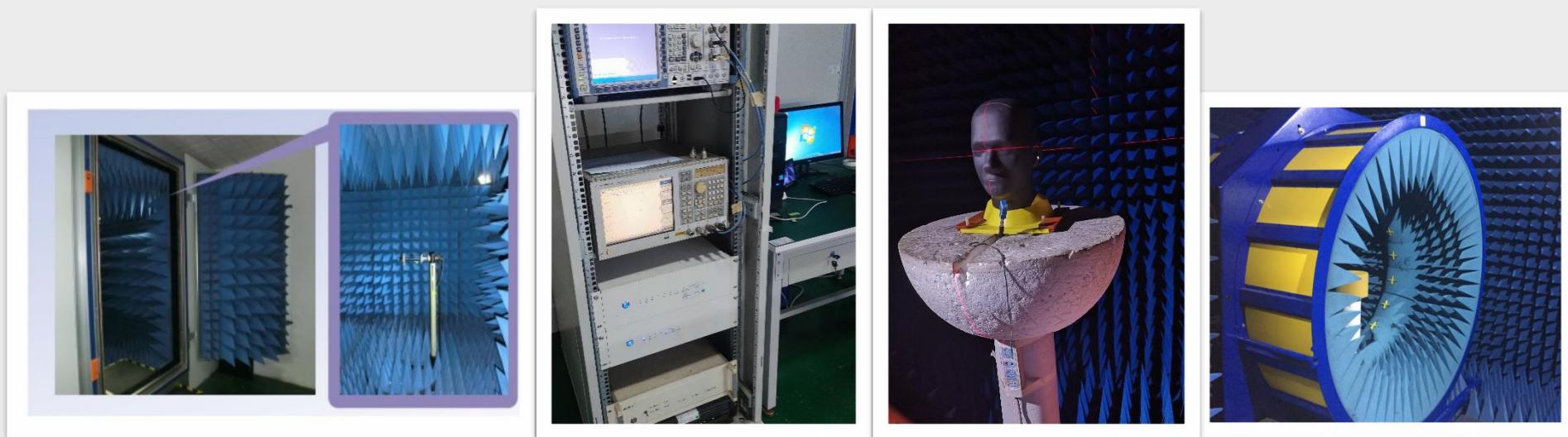
整机类型				
Antenna type And frequency band information	Antenna type	Frequency band information	Antenna form	Match changes
	WIFI BT	2400-2500MHz/5150-5850MHz	FPC	no
Antenna description	WIFI-1 Antenna φ1.13 grey L=150mm One generation IPEX WIFI-0/BT Antenna φ1.13 grey L=100mm One generation IPEX			
Antenna material				



实验室测试环境及设备



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测试项目	测试设备
S11、S12、VSWR、LOSS	网络分析仪E5071B、E8753D
Efficiency、Gain、3D Radiation Pattern	Satimo SG16暗室、 台湾十大7*4*3暗室 、E5071B、二代人头
TRP、TIS	Satimo SG16暗室、 台湾十大暗室 、CMW500、二代人头

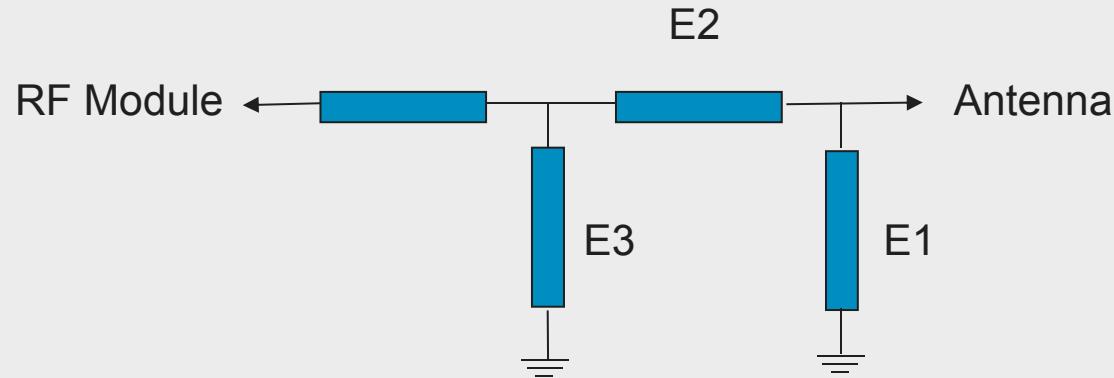
备注：本项目的调试&测试用的设备标示为蓝色



天线匹配电路



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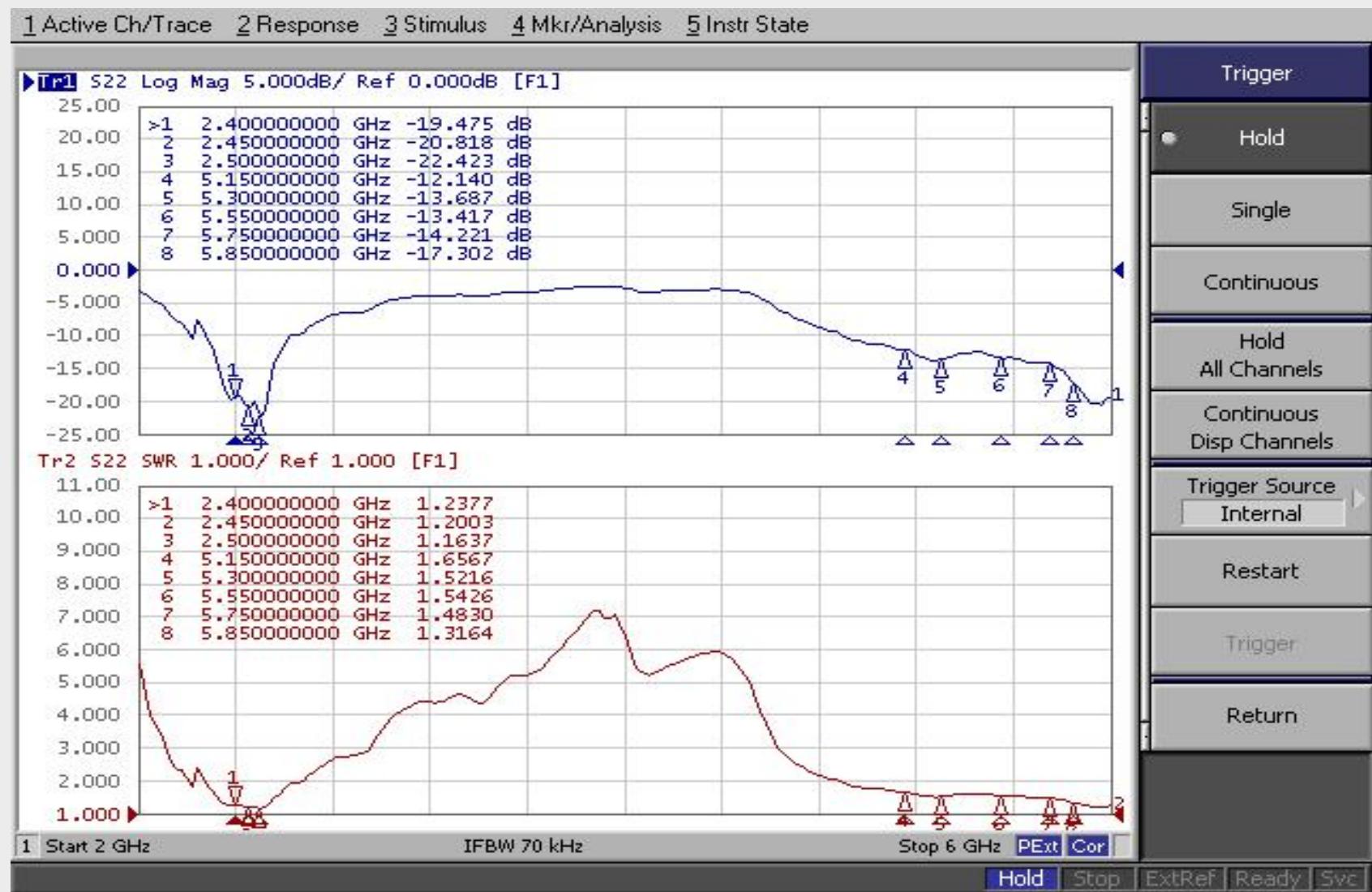
	Element	Value
E1		无
E2		0欧
E3		无

四. Passive data



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R-LOSS.VSWR(WIFI-1)





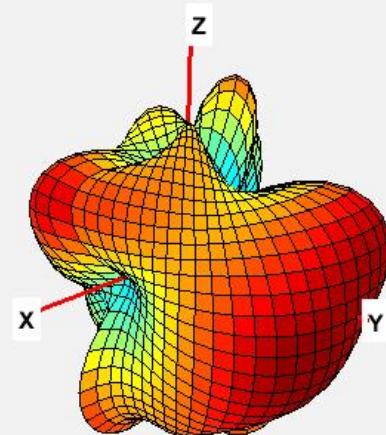
Effi / Gain(WIFI-1)

Frequency	Efficiency (%)	Gain (dBi)	Frequency	Efficiency (%)	Gain (dBi)
2. 4GHz	53. 02	3. 07	5. 15GHz	53. 03	0. 65
2. 41GHz	53. 81	3. 09	5. 2GHz	54. 72	0. 92
2. 42GHz	54. 79	2. 8	5. 25GHz	51. 13	1. 06
2. 43GHz	54. 59	2. 48	5. 3GHz	49. 77	1. 39
2. 44GHz	55. 12	2. 39	5. 35GHz	50. 97	0. 87
2. 45GHz	55. 46	2. 21	5. 4GHz	49. 86	1. 59
2. 46GHz	54. 08	2. 27	5. 45GHz	50. 24	1. 21
2. 47GHz	54. 98	2. 29	5. 5GHz	48. 49	1. 35
2. 48GHz	53. 99	2. 36	5. 55GHz	52. 24	1. 53
2. 49GHz	52. 5	2. 72	5. 6GHz	52. 78	0. 94
2. 5GHz	52. 9	2. 98	5. 65GHz	56. 14	0. 81
			5. 7GHz	55. 09	1. 22
			5. 75GHz	55. 55	1. 66
			5. 8GHz	51. 52	1. 43
			5. 85GHz	53. 62	1. 34

苹果图(WIFI-1)

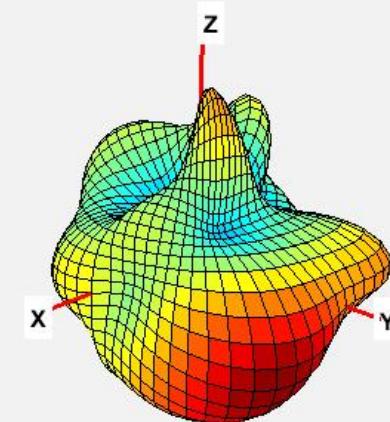
2450MHz

Total



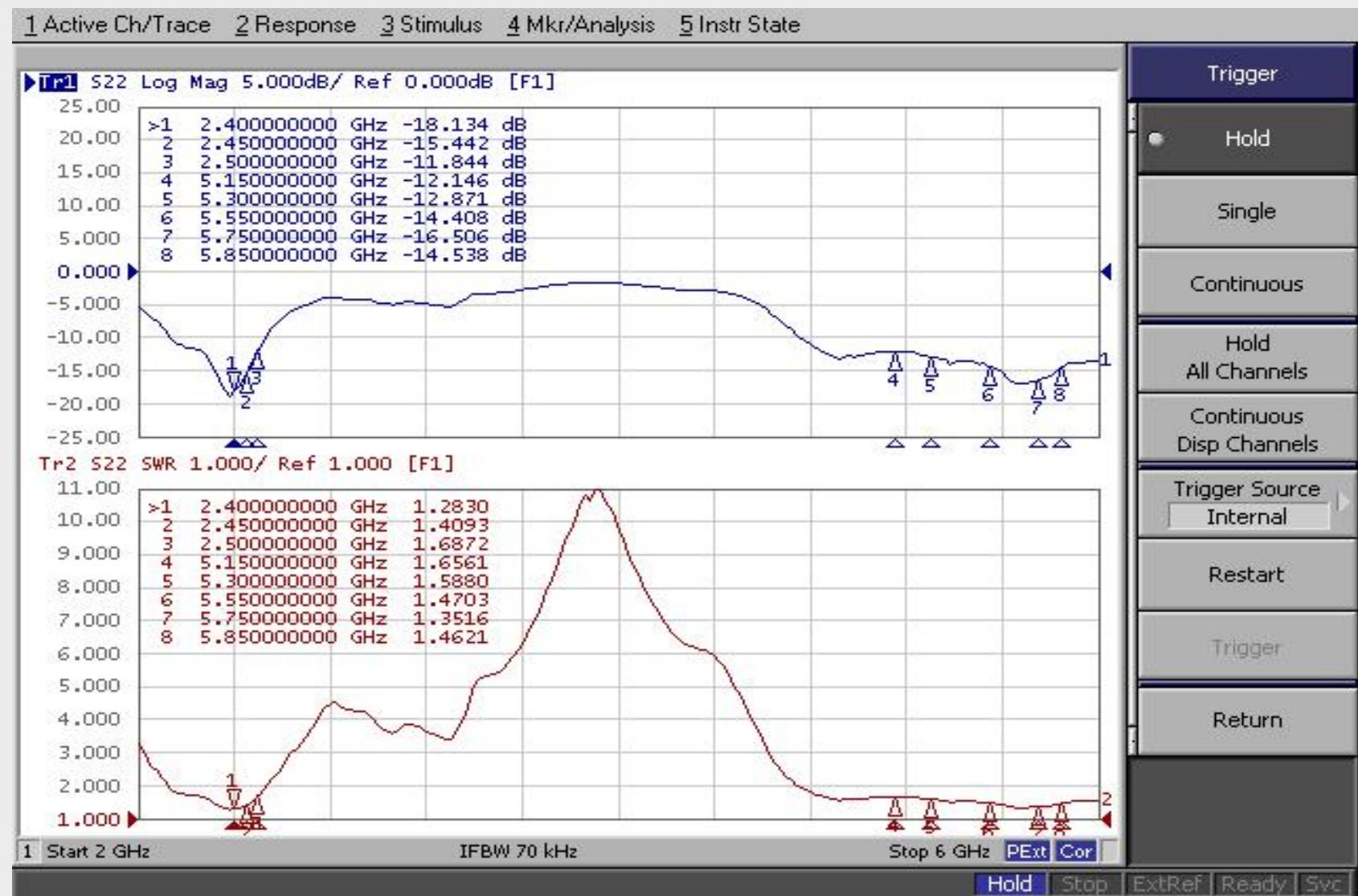
5500MHz

Total





R-LOSS.VSWR(WIFI-0)





无源数据

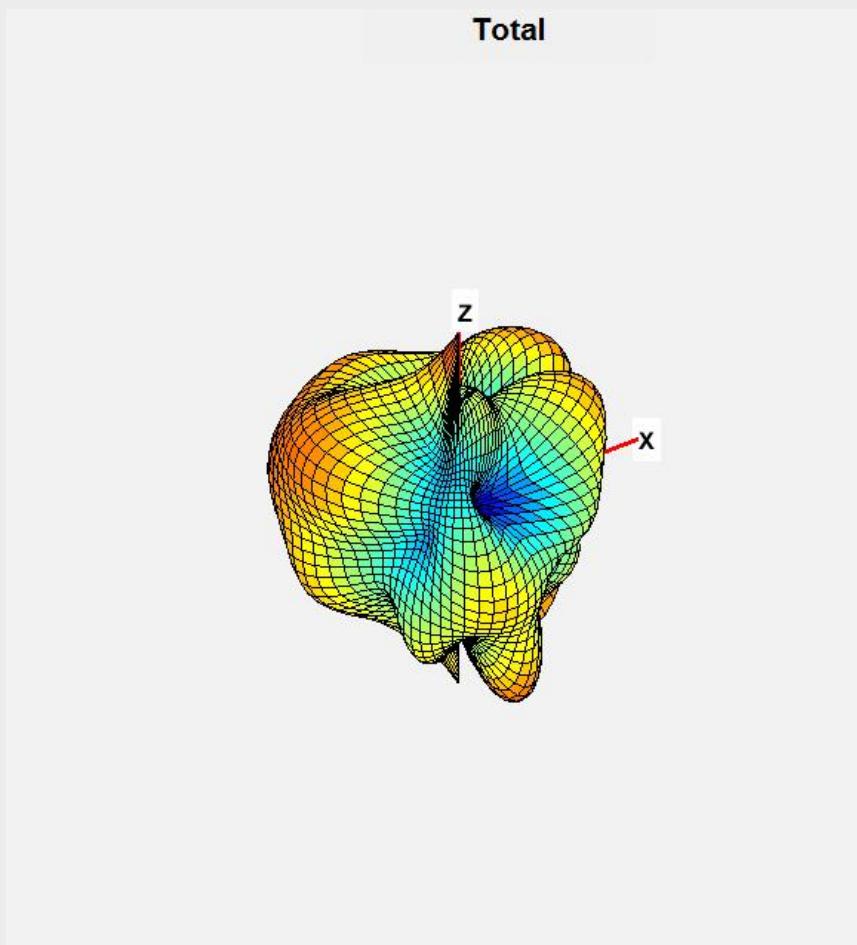
Effi / Gain(WIFI-0)



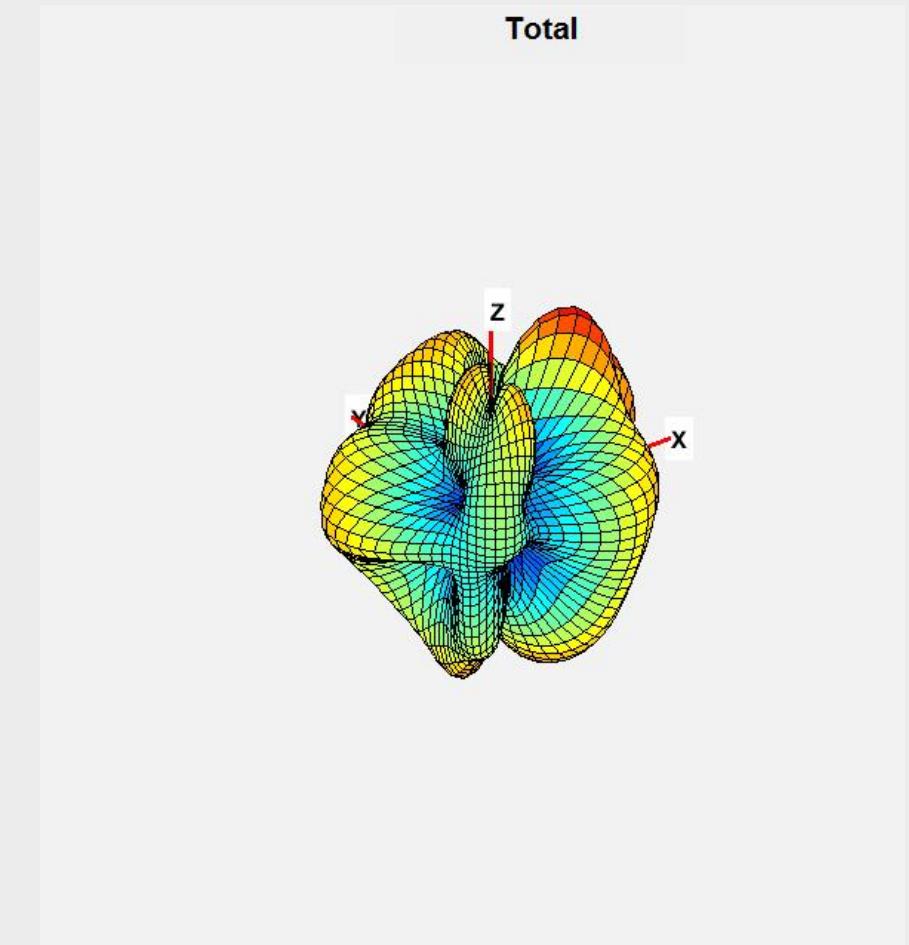
Frequency	Efficiency (%)	Gain (dBi)	Frequency	Efficiency (%)	Gain (dBi)
2. 4GHz	49. 89	1. 79	5. 15GHz	54. 93	1. 78
2. 41GHz	50. 95	1. 94	5. 2GHz	54. 88	1. 37
2. 42GHz	50. 11	1. 95	5. 25GHz	52. 72	0. 96
2. 43GHz	51. 68	1. 65	5. 3GHz	51. 4	1. 29
2. 44GHz	51. 35	1. 73	5. 35GHz	48. 21	0. 89
2. 45GHz	52. 69	1. 75	5. 4GHz	49. 47	1. 37
2. 46GHz	52. 59	2. 02	5. 45GHz	52. 47	2. 04
2. 47GHz	52. 95	2. 12	5. 5GHz	52. 03	1. 02
2. 48GHz	51. 65	1. 67	5. 55GHz	51. 44	1. 16
2. 49GHz	51. 27	2. 19	5. 6GHz	49. 1	0. 66
2. 5GHz	50. 86	2. 39	5. 65GHz	53. 55	1. 2
			5. 7GHz	55. 72	1. 36
			5. 75GHz	55. 57	1. 31
			5. 8GHz	50. 78	1. 15
			5. 85GHz	55. 09	1. 06

Apple image(WIFI-0)

2450MHz

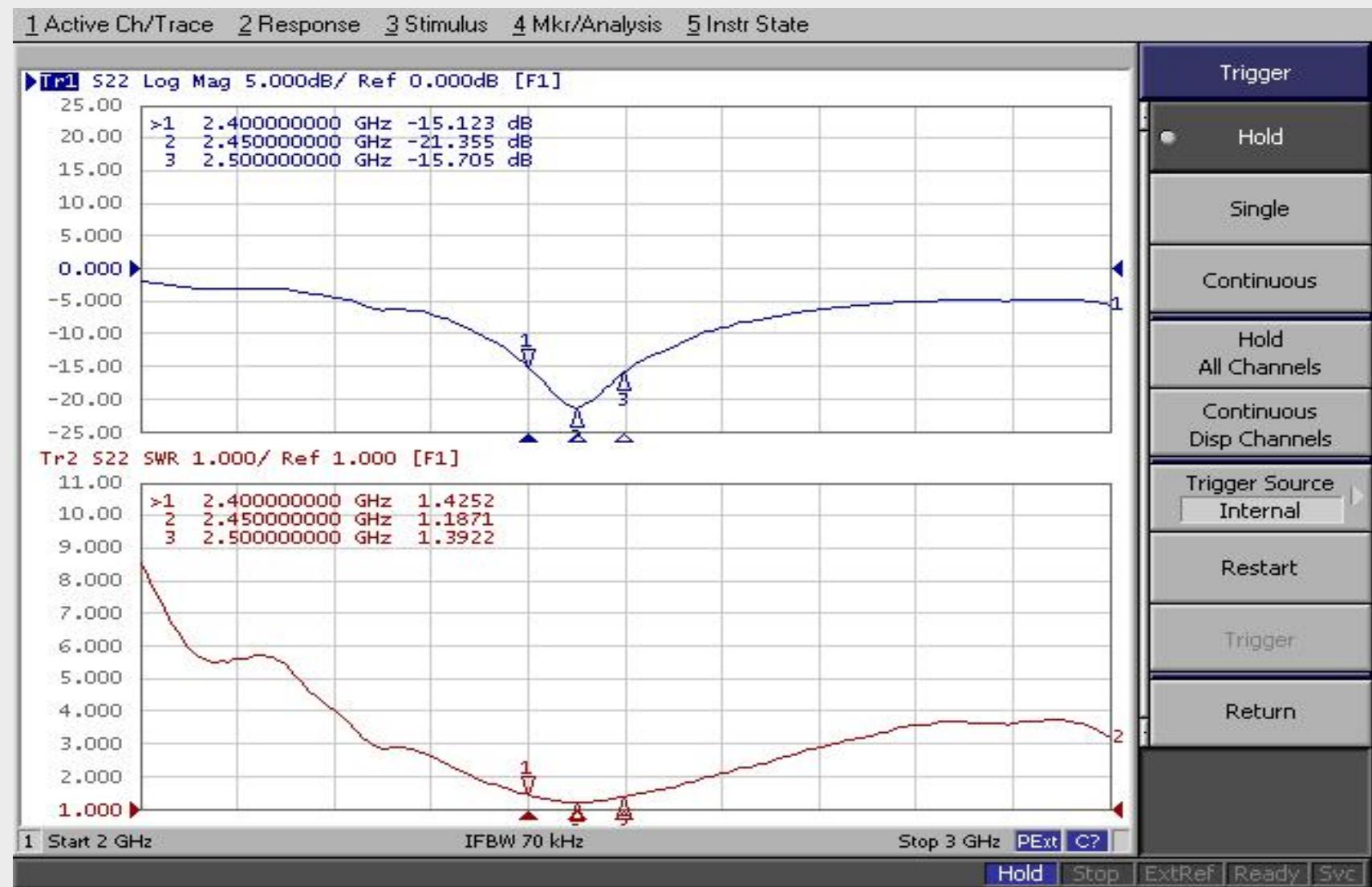


5500MHz





R-LOSS.VSWR(BT)



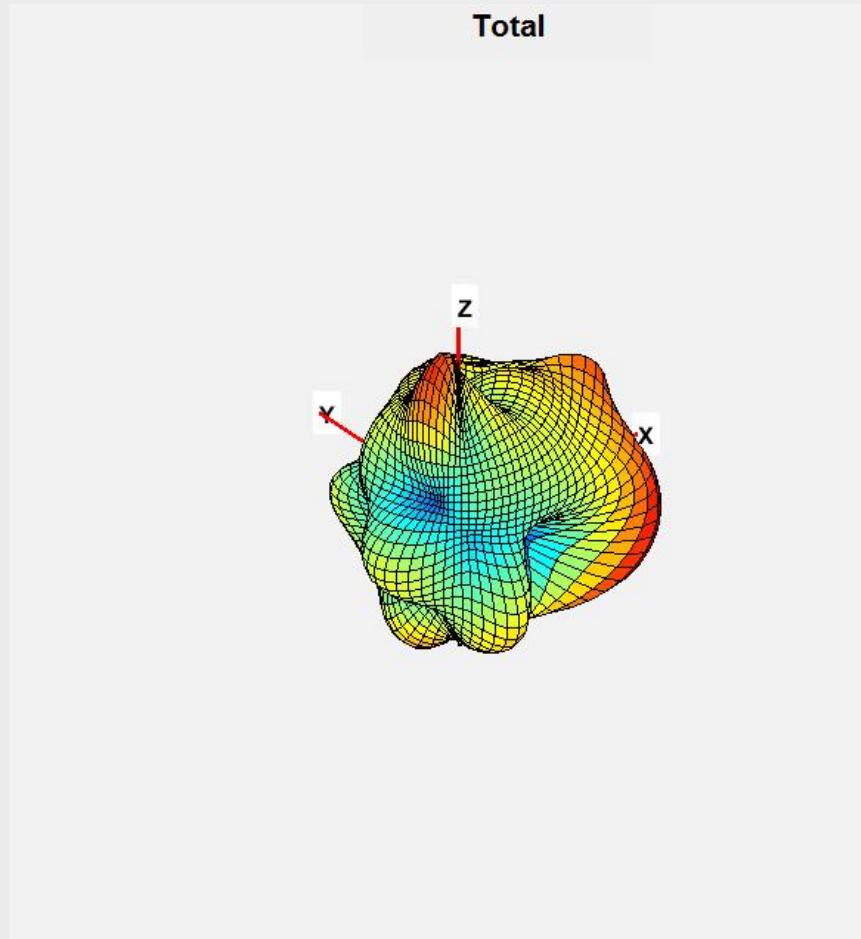


Effi / Gain(BT)

Frequency	Efficiency (%)	Gain (dBi)
2. 4GHz	50. 7	2. 34
2. 41GHz	51. 92	2. 33
2. 42GHz	51. 79	2. 03
2. 43GHz	53. 4	2. 46
2. 44GHz	54. 67	2. 29
2. 45GHz	53. 39	1. 71
2. 46GHz	53. 52	1. 56
2. 47GHz	53. 93	1. 59
2. 48GHz	52. 01	2. 01
2. 49GHz	51. 34	2. 6
2. 5GHz	50. 96	2. 74

Apple image(BT)

2450MHz





五. Active data



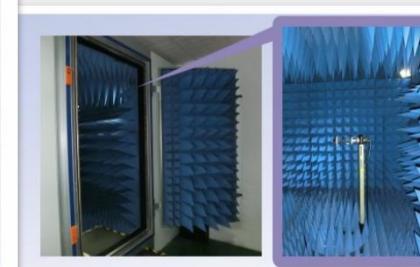
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TEST DATA FOR RADIATED TESTING						
Band	模式 Mode	信道 Channel	速率 (Mbps)	TRP	速率 (Mbps)	TIS
2.4G	802.11b	1	11M	16.43	11M	-80.6
		6		16.95		-80.2
		13		16.62		-80.88
5.8G	802.11a	36	6M	13.81	54M	-88.33
		149		13.69		-88.19
		157		13.52		-88.46



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contact information



Learn more <http://www.rtant.com>

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Thank you for your trust in Rtant