



Dongguan Ante Communication Co., LTD

R t a n t C o m m u n i c a t i o n s
C o . , L t d

Antenna Commissioning & Test Report

Customer: Sansan
Item: S 1 PRO
Antenna engineer: Li Hunan
Date: 2023-0811
Version: V0. 1



RTANT

Complete machine type				
Antenna type and frequency band information	antenna system	Frequency band information	Antenna form	Match changes
	WIFI	2400-2500MHz 5150-5850MHz		deny
	BT	2402-2480MHz		
Antenna	F PC			

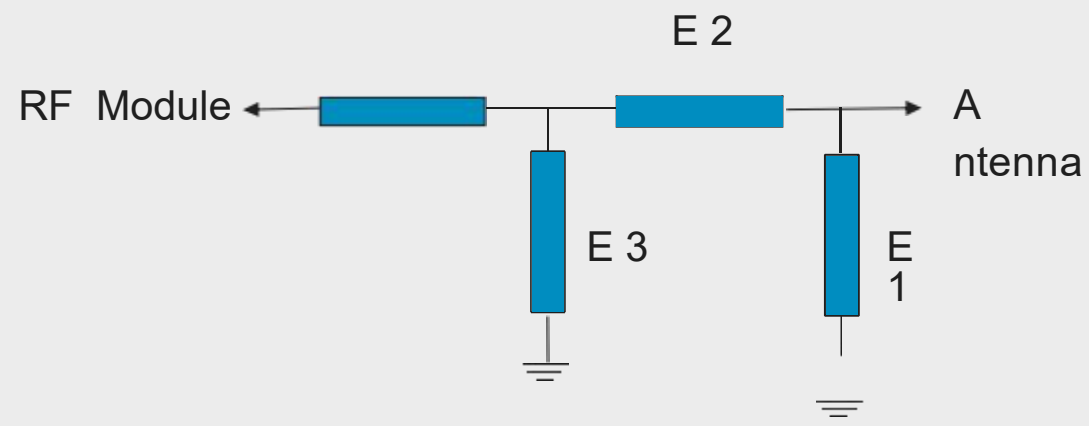
material



test item	testing facility
S 11、 S12 、 VSWR 、 LOSS	Network Analyzers E5071B, E8753D
Efficiency 、 Gain 、 3D Radiation P a ttern	Satimo SG 16 Dark room, Taiwan top ten 7 * 4 * 3 dark room, E5071B, the second generation head
TRP 、 TI S	Satimo SG 16 Dark room, Taiwan top ten dark room, CMW500, the second generation head

Note: The equipment used for commissioning & testing of this project is marked in blue

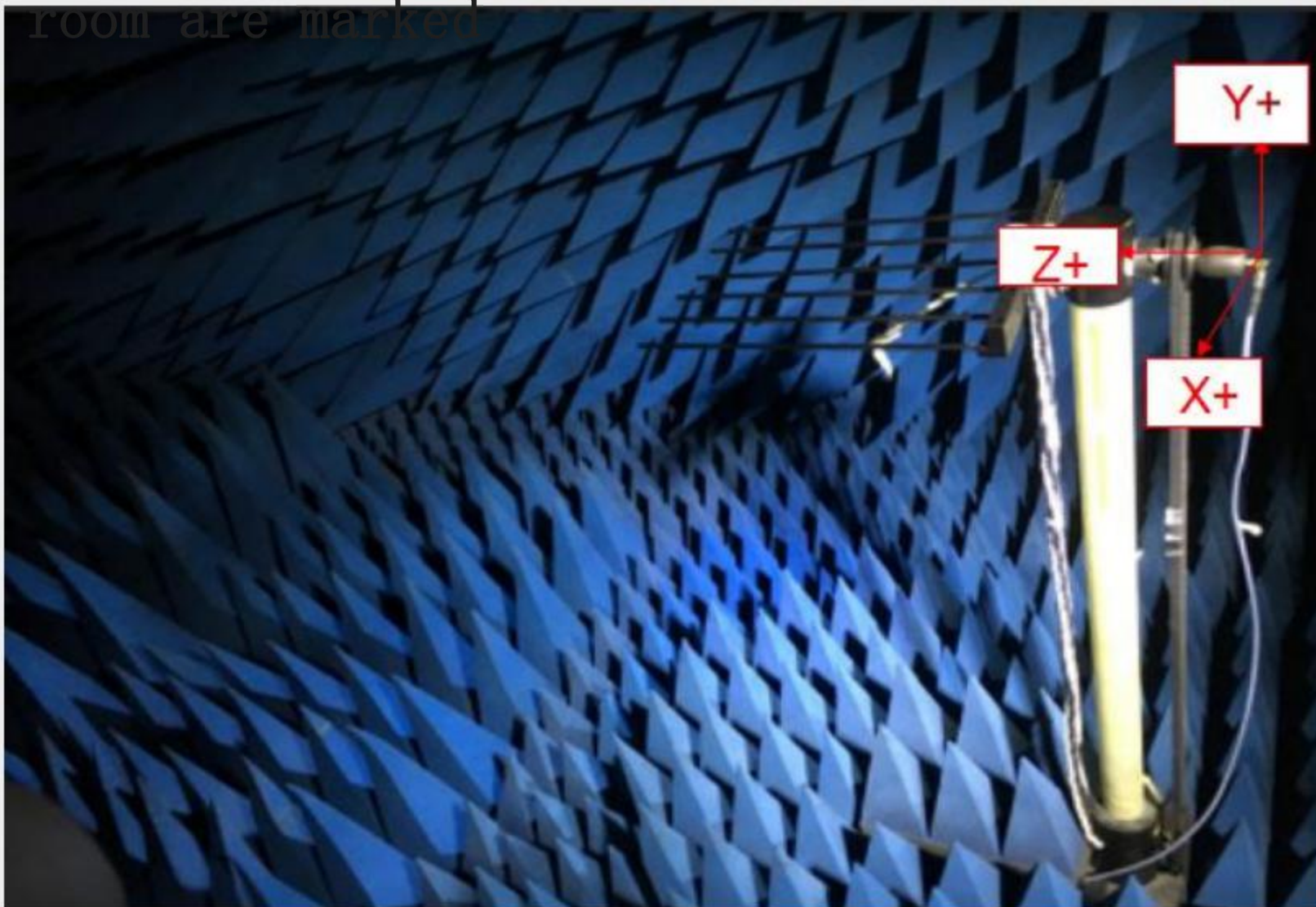
Antenna matching circuit



	Element	Value
	E 1	There is no change
	E 2	There is no change
	E 3	There is no change

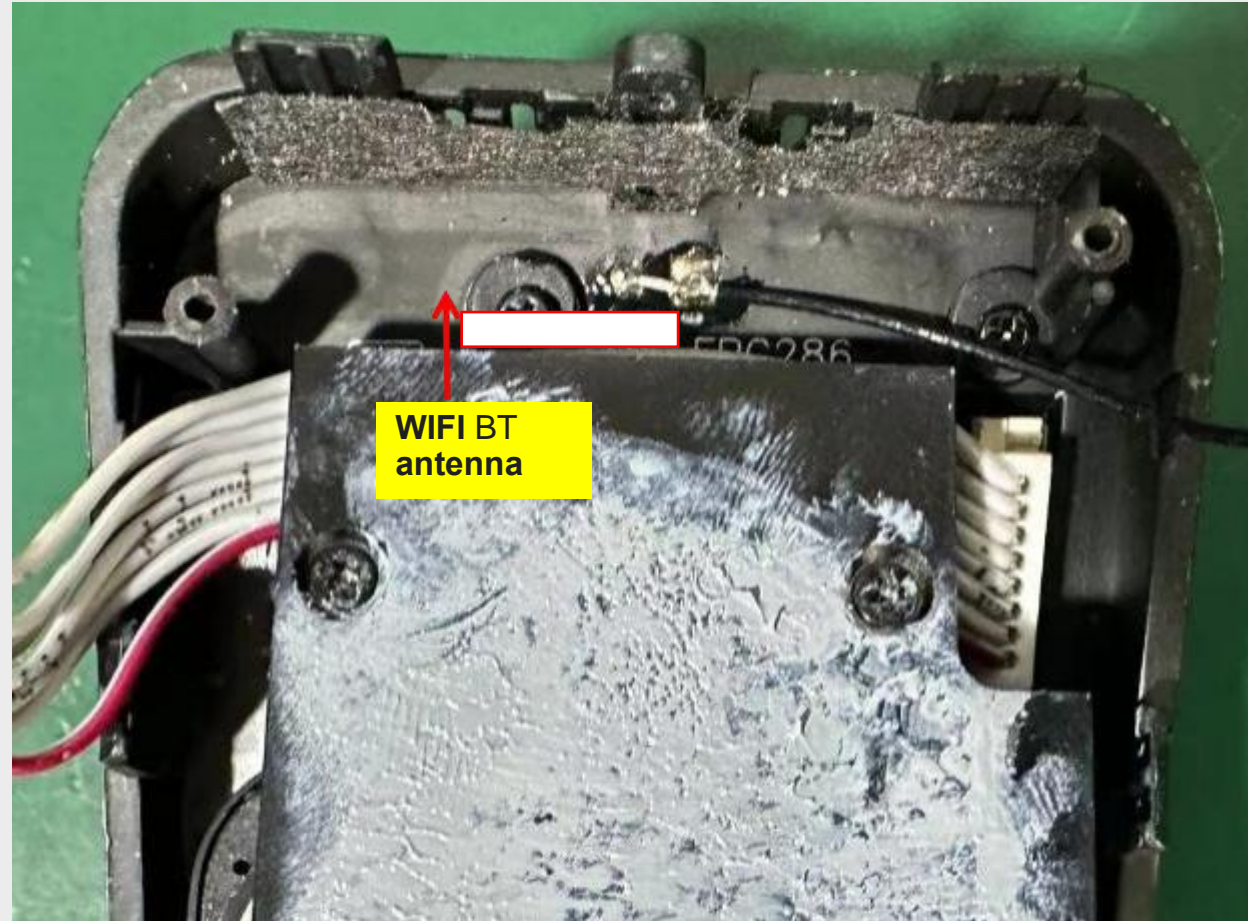


four. The coordinates of the dark room are marked

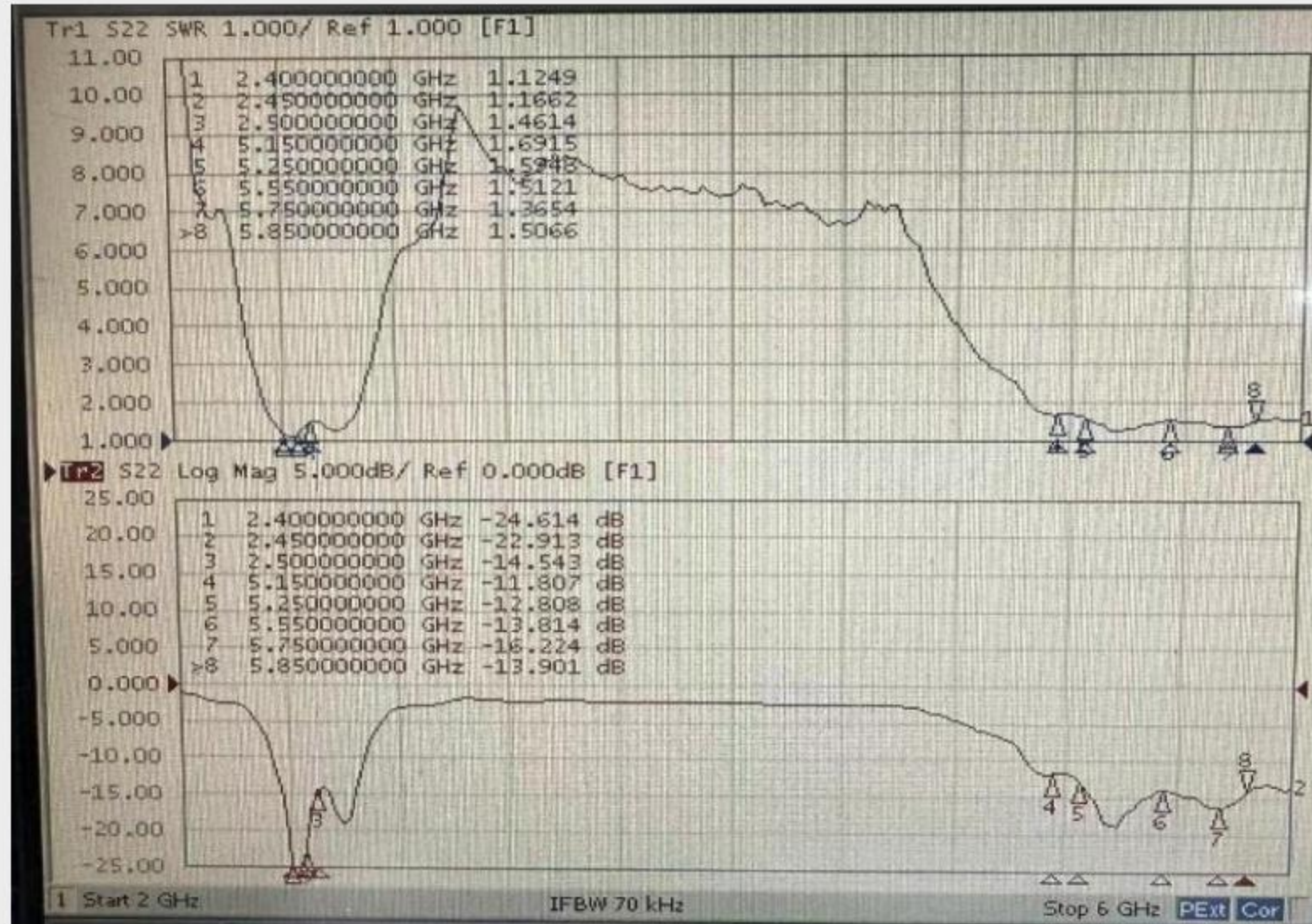




five. Position of the antenna arrangement



six. Passive data R-LOSS .VSWR



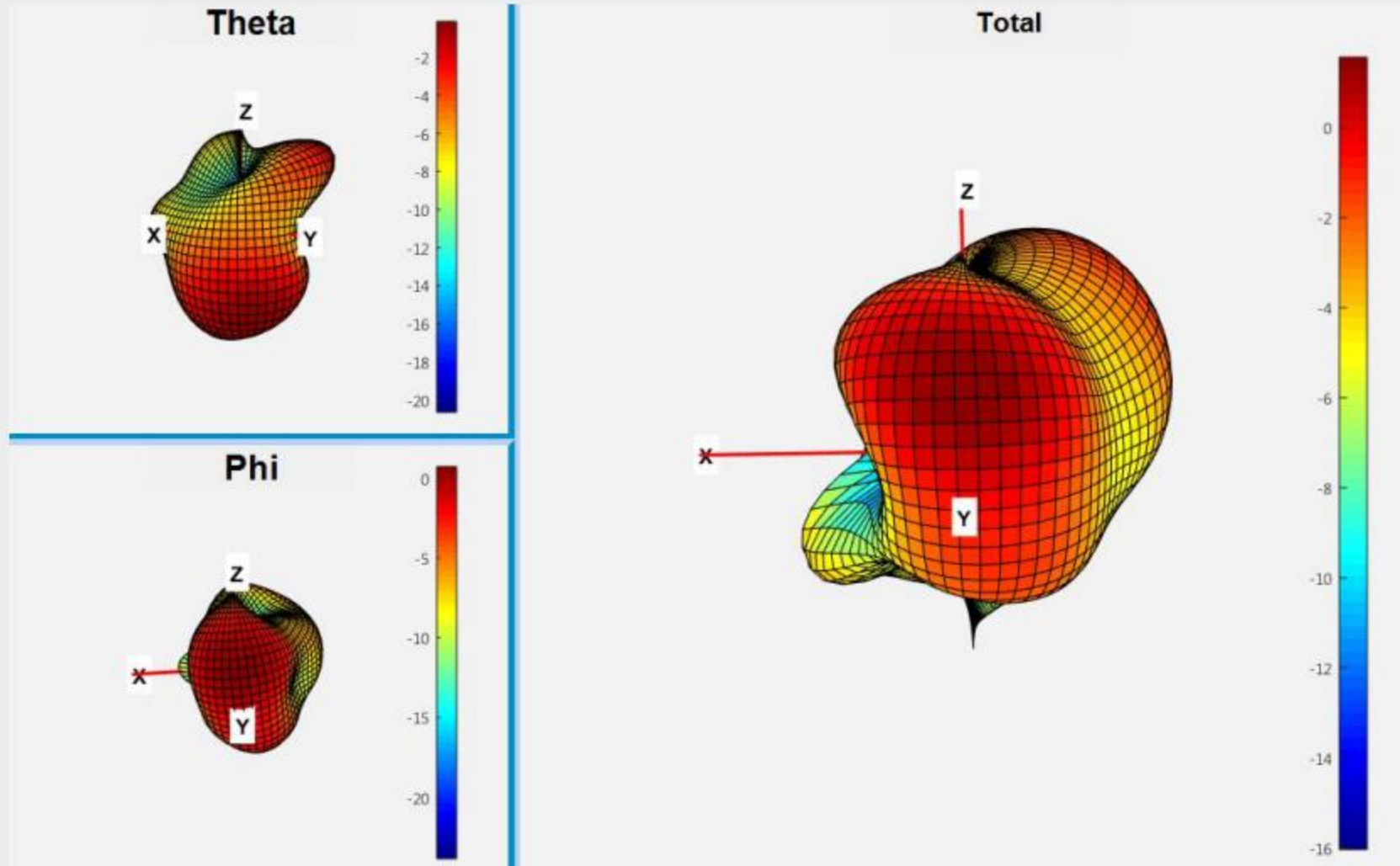
Effi / Gain

2.4G天线			5.8G天线		
Frequency	Efficiency (%)	Gain (dBi)	Frequency	Efficiency (%)	Gain (dBi)
2.4GHz	43.87	1.24	5.15GHz	43.96	1.27
2.41GHz	45.38	1.63	5.2GHz	42.07	1.13
2.42GHz	45.54	1.65	5.25GHz	44.46	1.26
2.43GHz	44.52	1.24	5.3GHz	46.14	0.94
2.44GHz	47.04	1.66	5.35GHz	43.37	0.71
2.45GHz	46.36	1.57	5.4GHz	41.32	0.83
2.46GHz	49	1.67	5.45GHz	42.61	0.64
2.47GHz	50.15	1.58	5.5GHz	43.85	0.76
2.48GHz	48.29	1.14	5.55GHz	45.73	0.4
2.49GHz	45.98	1.15	5.6GHz	41.79	0.68
2.5GHz	44.99	1.18	5.65GHz	41.4	0.69
			5.7GHz	40.61	0.83
			5.75GHz	43.61	1.02
			5.8GHz	44.8	1.21
			5.85GHz	43.64	0.74



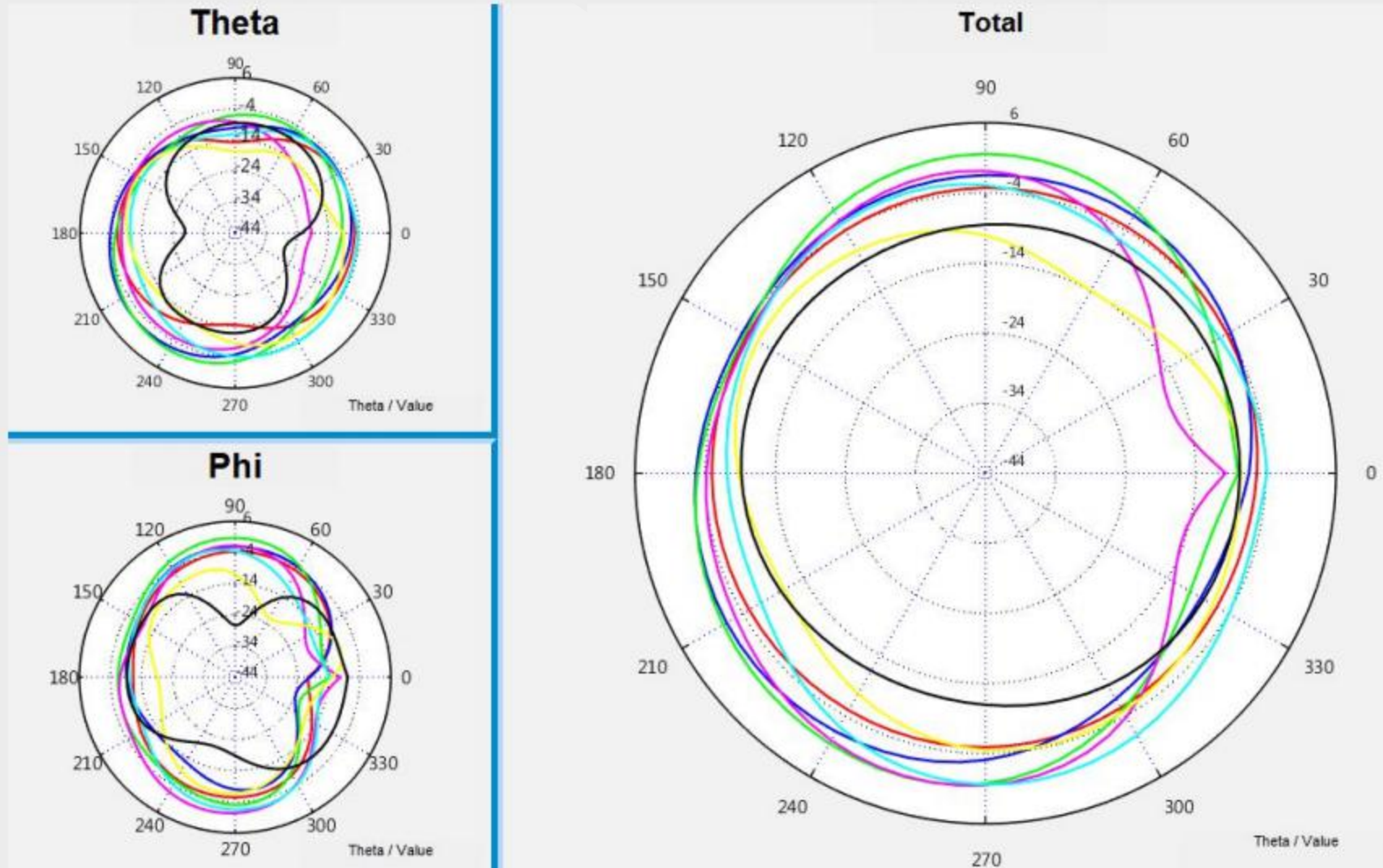
Apple figure

3D graph 2450MHz

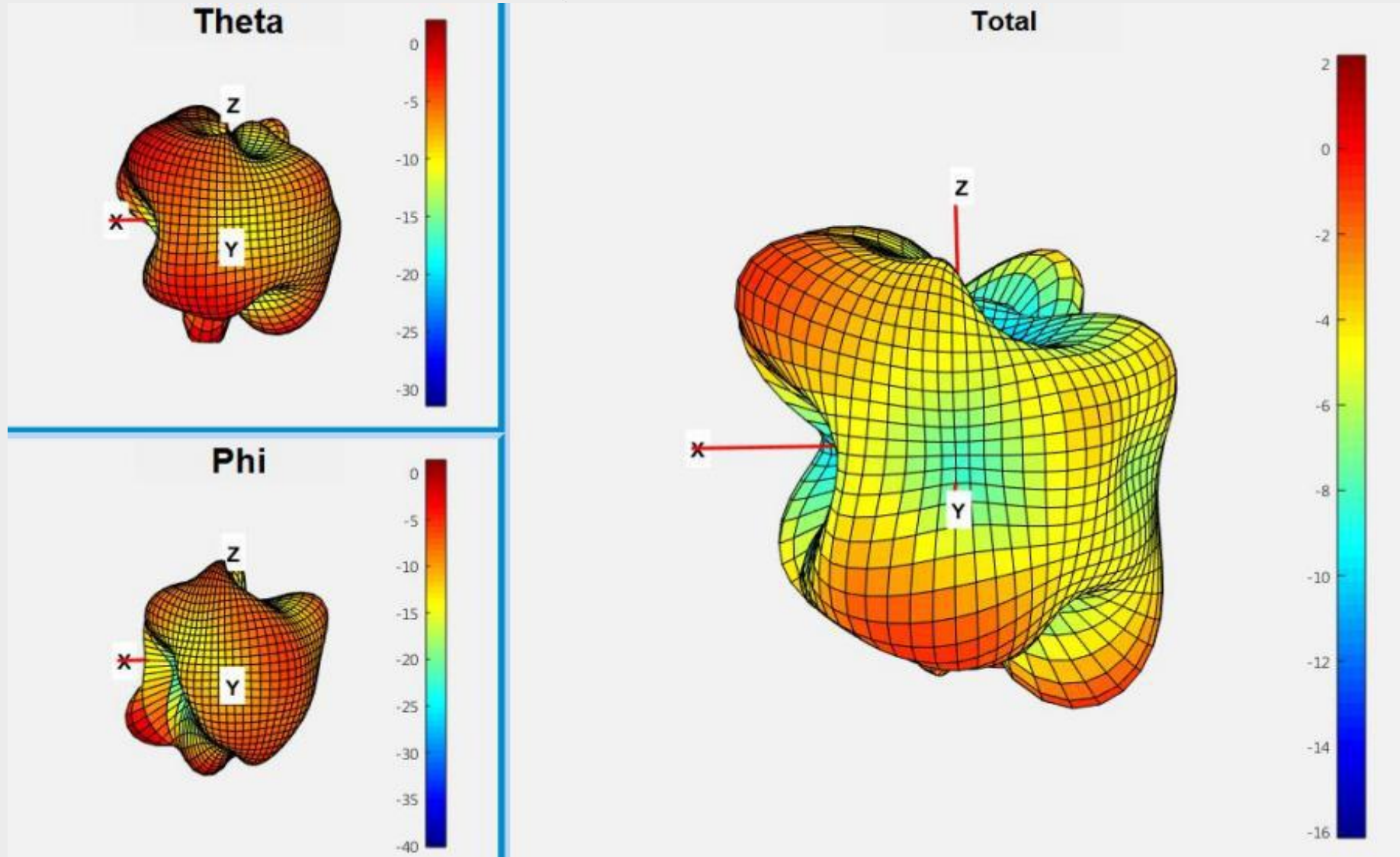




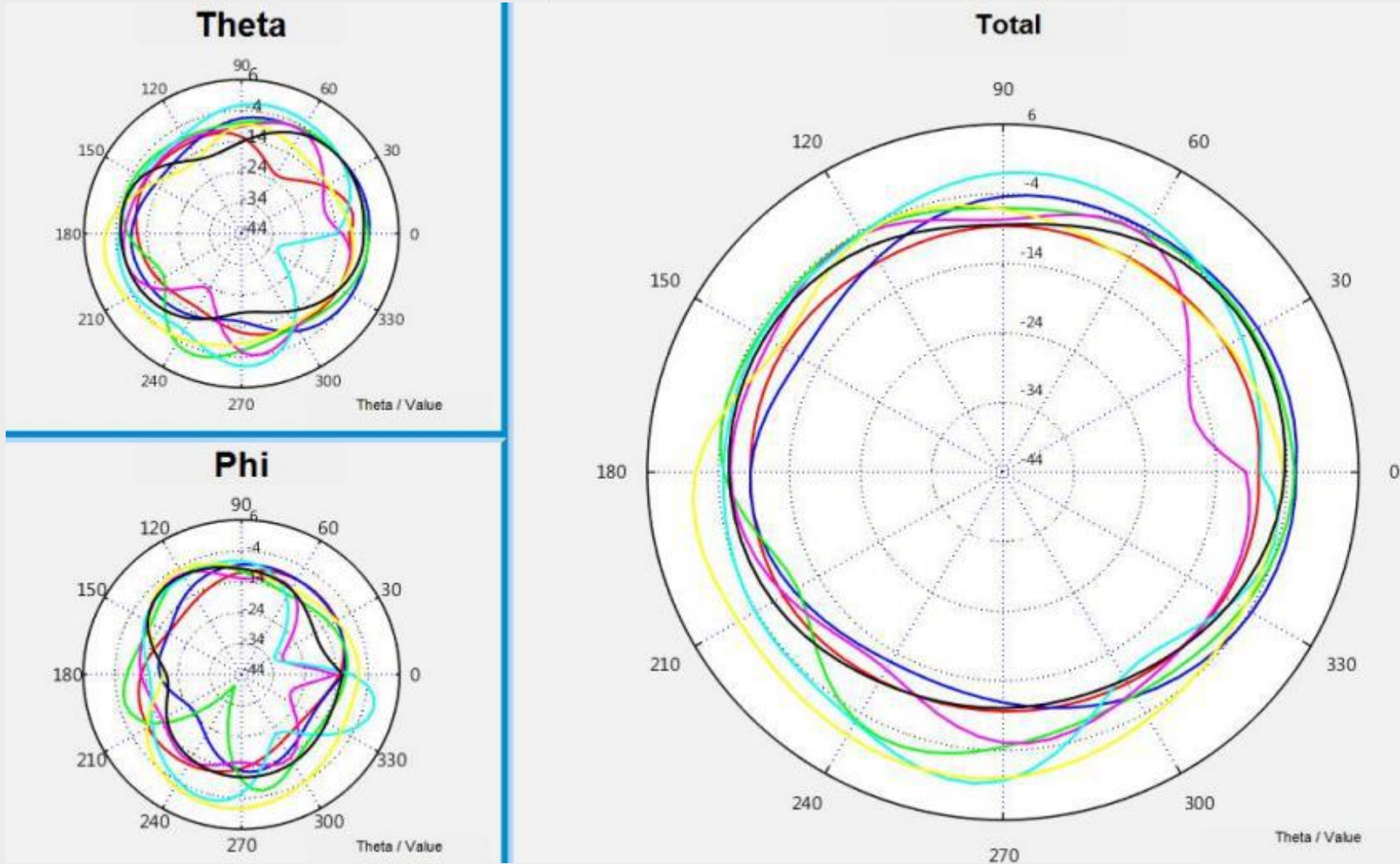
2D graph-2450MHz



3D graph-5550MHz



2D graph-5550MHz



contact way

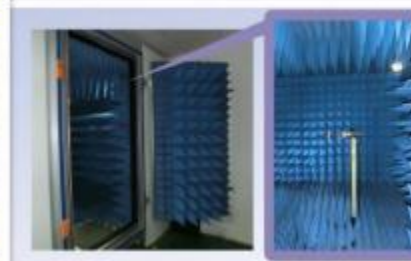


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More understanding <http://www.rtant.com>

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