

深圳市和鸣微科技有限公司

Shenzhen HamyWe Technology Co., Ltd.

WBT1030-ANT

版本
V 1

Test Report



2024/05/07

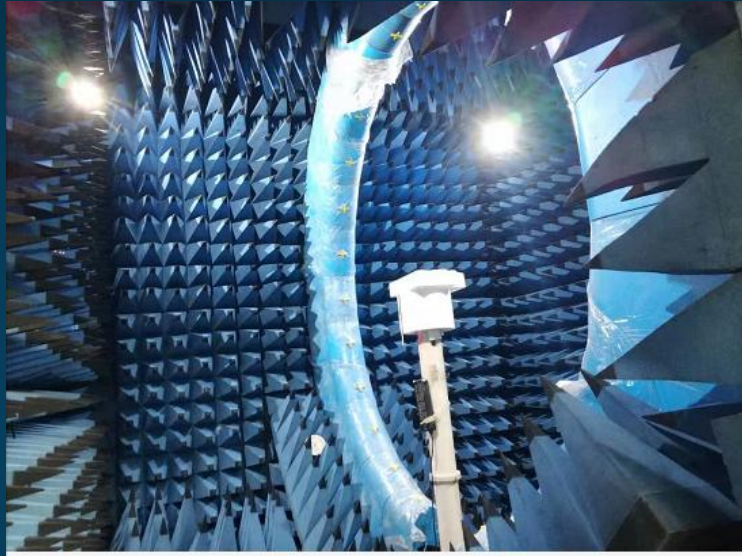
- 1 Test Equipment
- 2 project instruction
- 3 Test version record
- 4 S11 parameter test
- 5 *GAIN & Efficiency*
- 6 Antenna assembly location
- 7 important



contents

Test Equipment

SG24



GTS



Agilent 8960



CMW 500



SP9500



Agilent E5071B

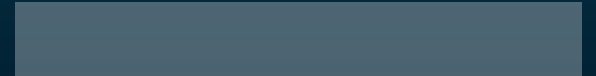
test system	test environment	active test	Passive testing
SG24	temperature: 22°C±3°C	support 5G/4G/3G/2G	600MHZ——6G
GTS	humidity: 50%±15%	support BT/WIFI/GPS	

project instruction

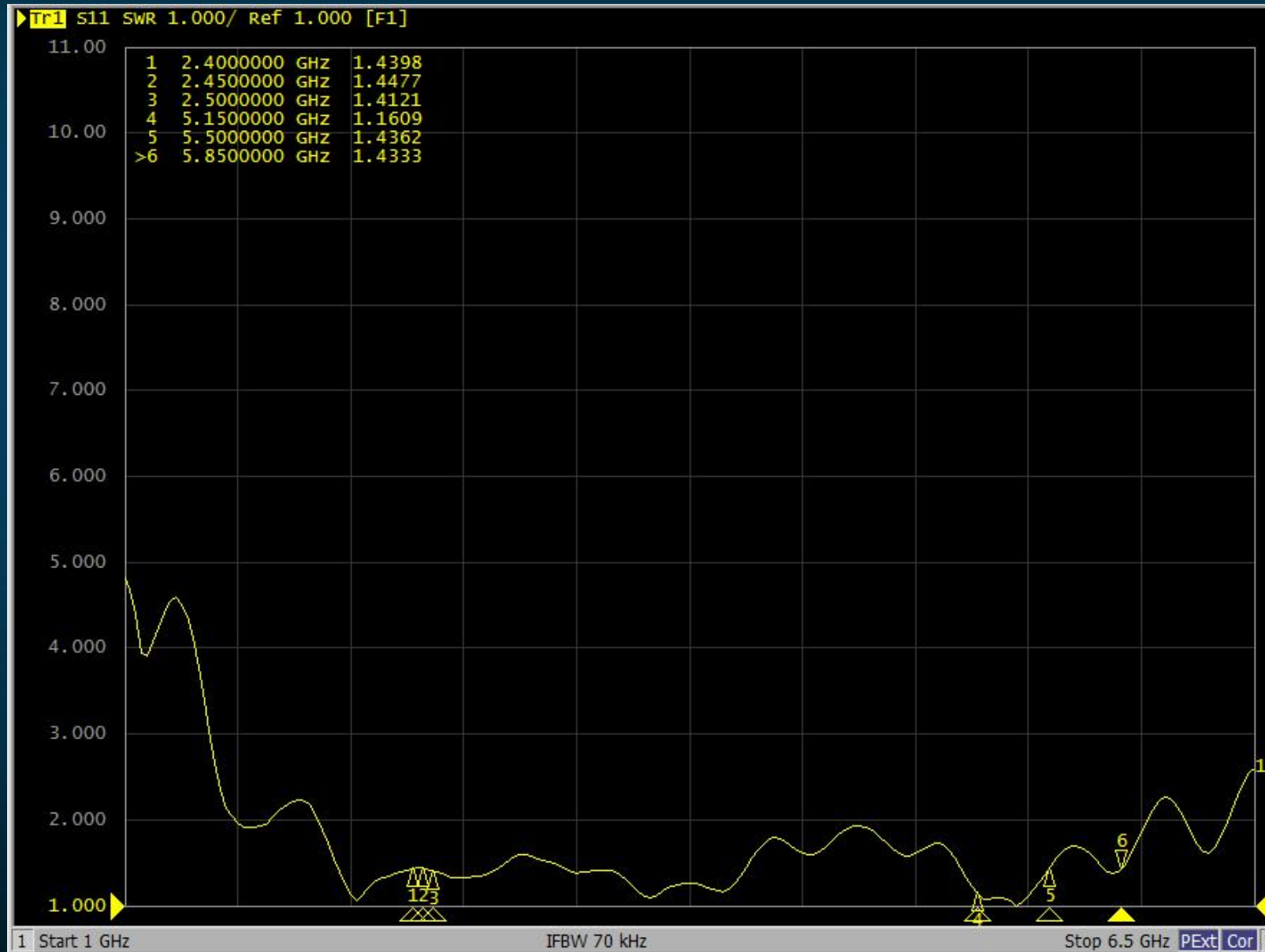


Machine type: Speaker

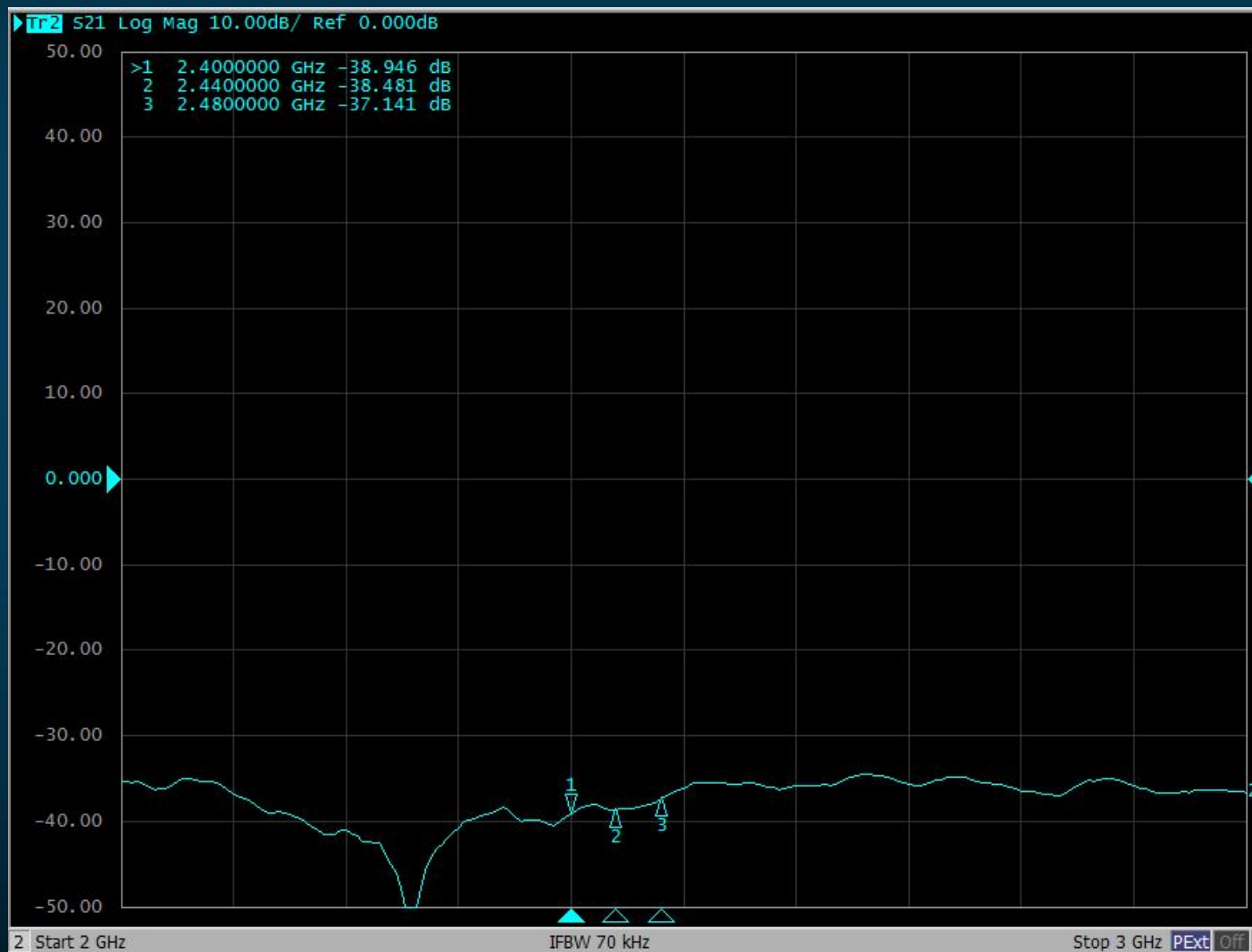
Antenna method:FPC



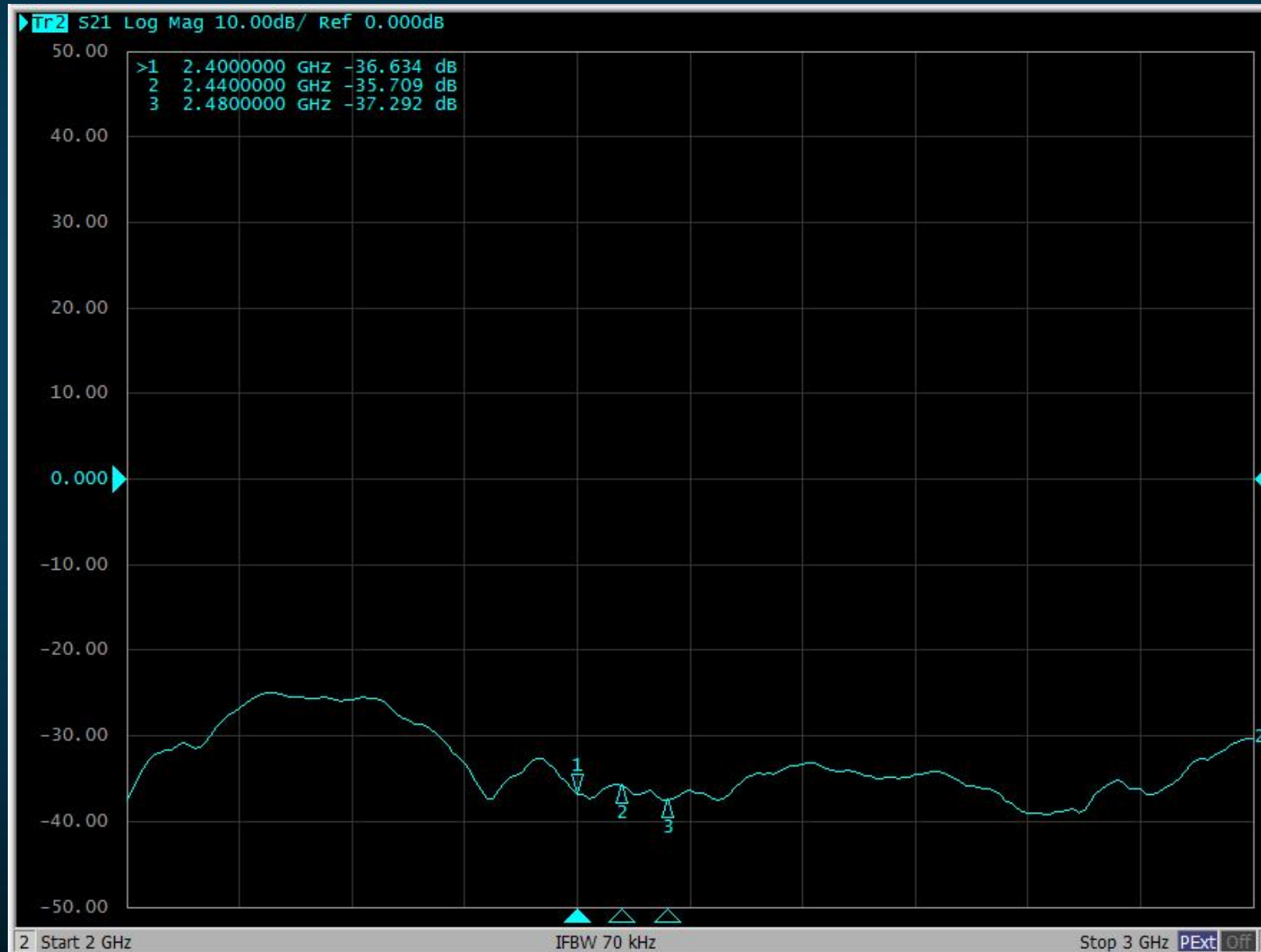
wifi-S11 Test Data



ANT1-ANT4 S21 data



ANT5-ANT6 S21 Data



ANT1- GAIN & Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)
2400	4.67	57.39
2410	4.3	56.57
2420	3.87	54.48
2430	3.59	56.26
2440	3.23	56.65
2450	3.46	58.18
2460	3.55	58.44
2470	3.64	60.47
2480	3.71	61.13
2490	3.65	61.42
2500	3.66	62.21

Frequency (MHz)	Gain(dBi)	Efficiency(%)
5150	1.91	41.63
5200	1.44	44.64
5250	1.66	44.49
5300	1.96	43.29
5350	1.54	44.35
5400	1.32	44.9
5450	1.27	44.18
5500	1.65	46.62
5550	1.83	46.72
5600	1.44	43.63
5650	2	42.64
5700	2.03	42.17
5750	2	39.56
5800	2.97	45.59
5850	2.73	44.62

ANT4-5 GAIN & Efficiency

ANT4

Frequency (MHz)	Gain(dBi)	Efficiency (%)
2400	2.82	72.44
2410	2.69	71.09
2420	2.52	68.59
2430	2.51	69.76
2440	2.44	68.98
2450	2.49	70.7
2460	2.53	71.69
2470	2.51	73.54
2480	2.55	73.75
2490	2.54	73.87
2500	2.65	73.27

ANT5

Frequency (MHz)	Gain(dBi)	Efficiency (%)
2400	2.82	65.55
2410	2.59	64.24
2420	2.53	61.66
2430	2.41	62
2440	2.43	61.22
2450	2.22	62
2460	1.85	60.76
2470	2.53	62.08
2480	2.51	62.89
2490	2.36	62.57
2500	2.55	62.97

ANT6 GAIN & Efficiency Data

ANT6

Frequency (MHz)	Gain (dB)	Efficiency (%)
2400	4.18	67.28
2410	3.98	66.14
2420	3.77	64.29
2430	3.72	64.54
2440	3.51	63.2
2450	3.58	64.98
2460	3.58	64.26
2470	3.66	66.41
2480	3.67	67.55
2490	3.7	67.98
2500	3.66	67.34

WIFI-OTA Test Data

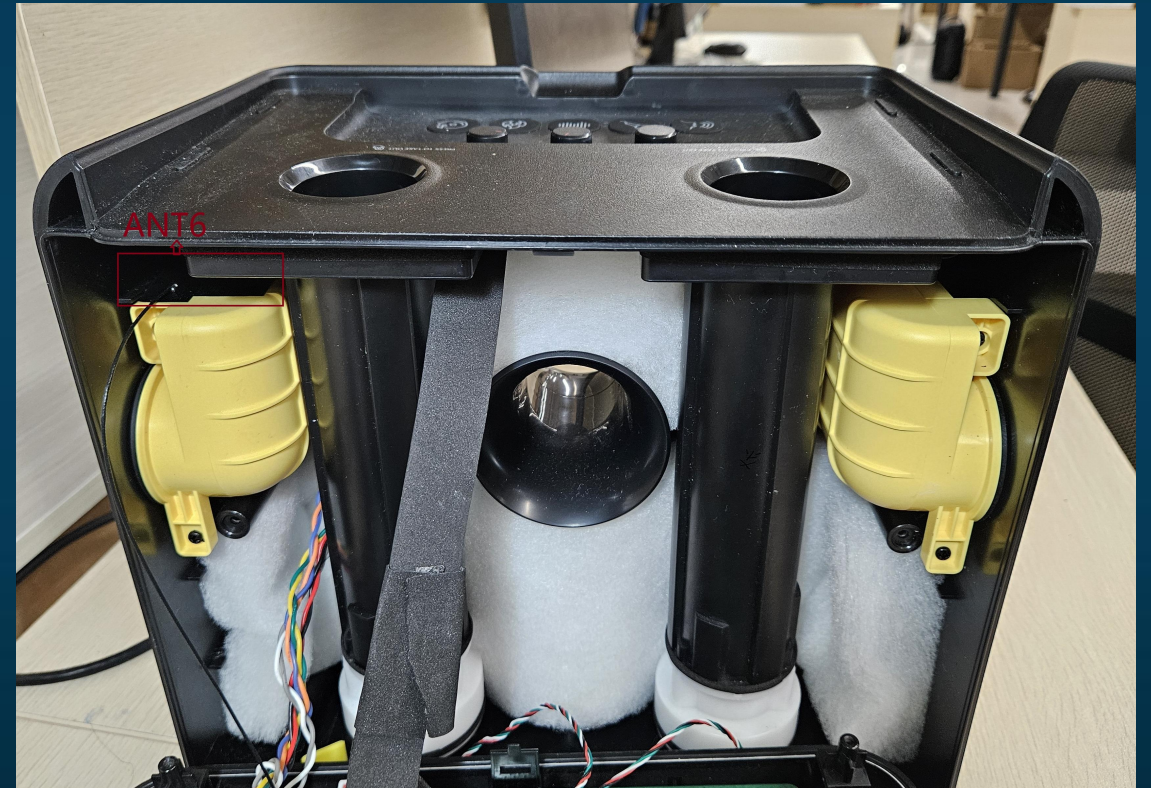
	Band	Frequency	TRP	TIS
802.11b	1	2412	17.45	-77.76
	7	2442	15.96	-79.71
	13	2472	15.57	-78.86

	Band	Frequency	TRP	TIS
802.11a	149	5180	13.73	-70.55
	157	5785	13.85	-71.19
	165	5825	13.51	-70.46

OTA Data

active test			
SG24、CWM500			unit:dBm
Channel	TRP	TIS	Remark
0	6.23	-86.17	BT
39	5.52	-87.66	
78	4.11	-83.21	

assembly



ANT1-2.4G

