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Antenna test report

Project name : **M50 wireless Mouse**

Measuring program : **Genreal Test System (GTS.)**

testing equipment : **Agilent E5071C**

Test engineer : **Yin Xin**

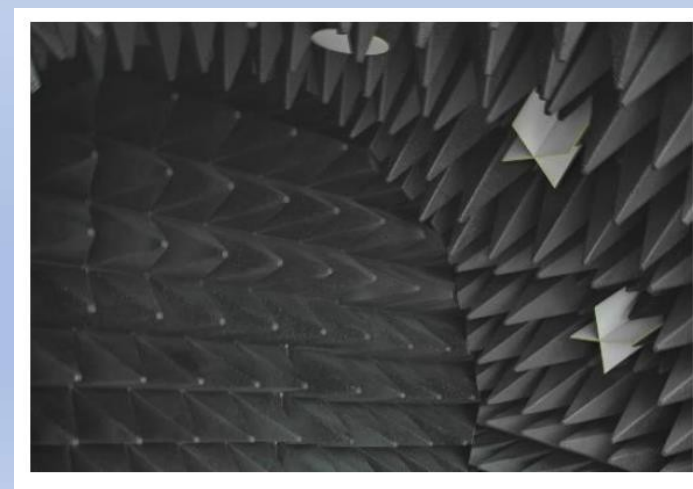
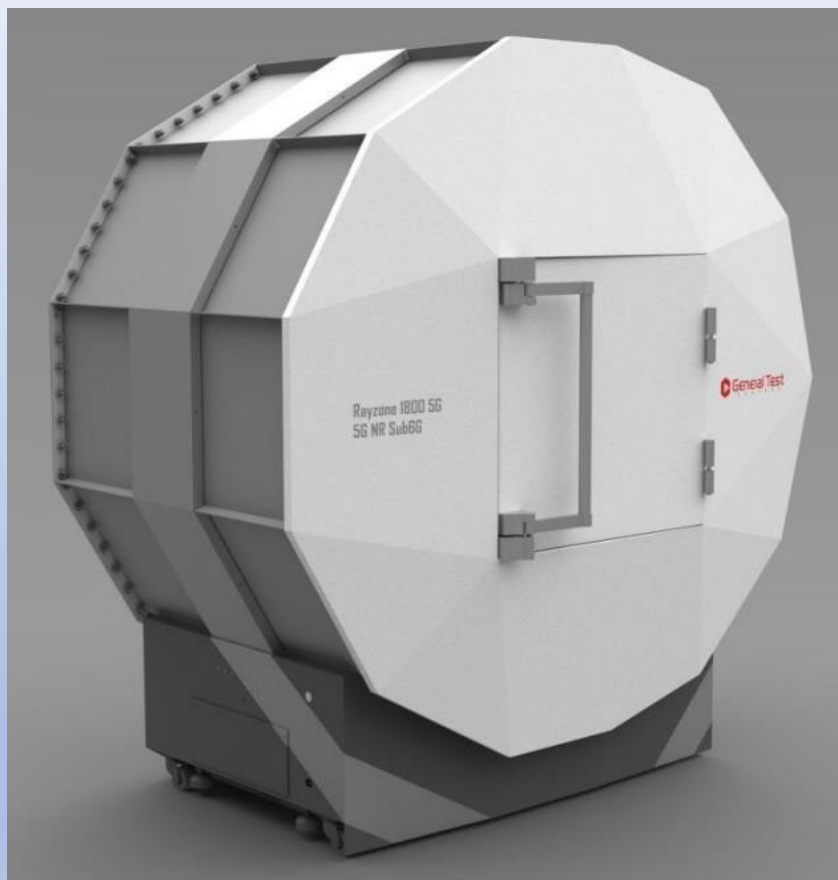
The gain standard of EIRP is mainly the implementation standard of Active DUT Test.

Date : **2023-06-30**

Testing Environment



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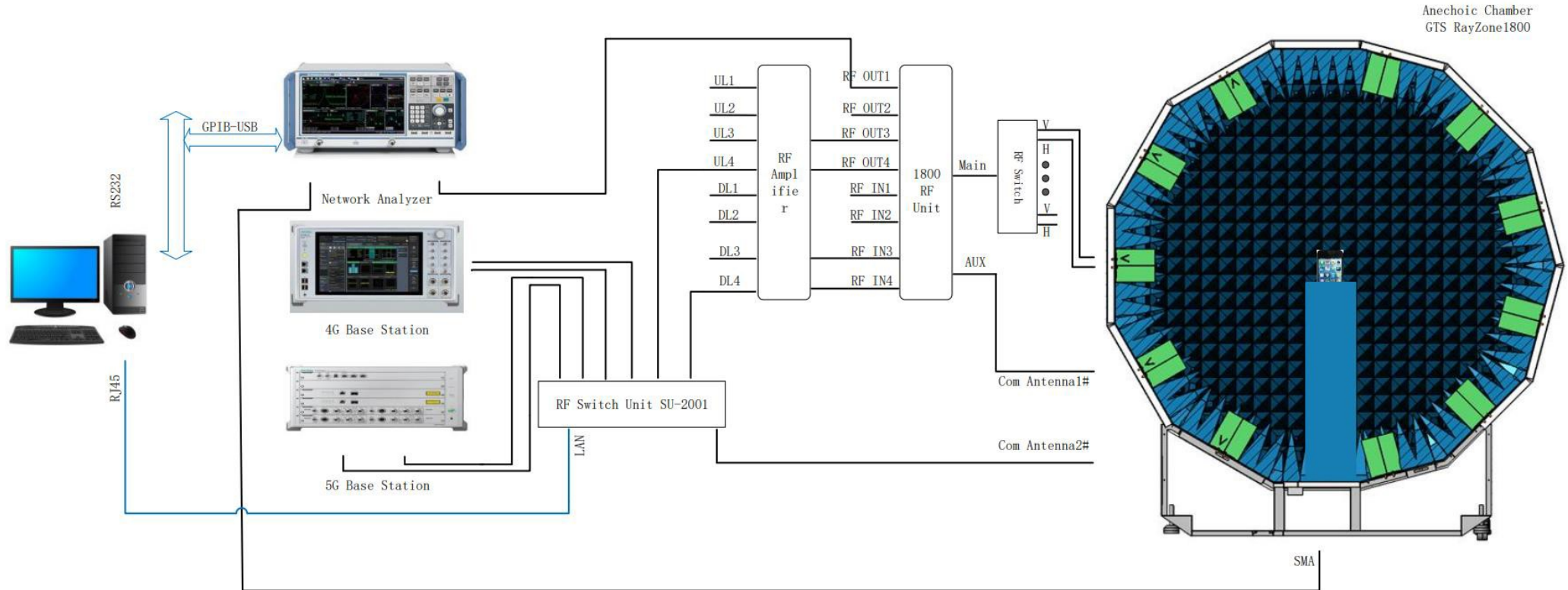
Testing Principle



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RayZone1800 Test Setup



Test Setup



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Instrument: Agilent_5071C
TestSystem: Passive
TestMode:
D:\GTS Batch\LD\dual-band 2G-5G-WiFi-30degree(1).xml: dual-band 2G-5G-WiFi-30degree(1).xml
Trace Name: S21
IF Bandwidth: 0.3
Factor Average: 0
Power: 5
Test Mode: Log
Skip Calibration: True
DUT Type: Linear
Radiation Test: False
S11 Calibration File: State01
Start: 0
End : 360
Step: 30
Start: 0
End: 180
Step: 30
Display Frequency Mode: Auto
Display Frequency:
Test Method: Linear
:

Start	End	Interval
2300	2600	10
5150	5850	25

:

Start	End	Interval
900	0	0
1800	0	0
1900	0	0

CW_Freq: 600
Correction Method: Constant
AddPLConst: 0
:

Interval	Freq	Pathloss
Start	1800	1
Stop	2400	6

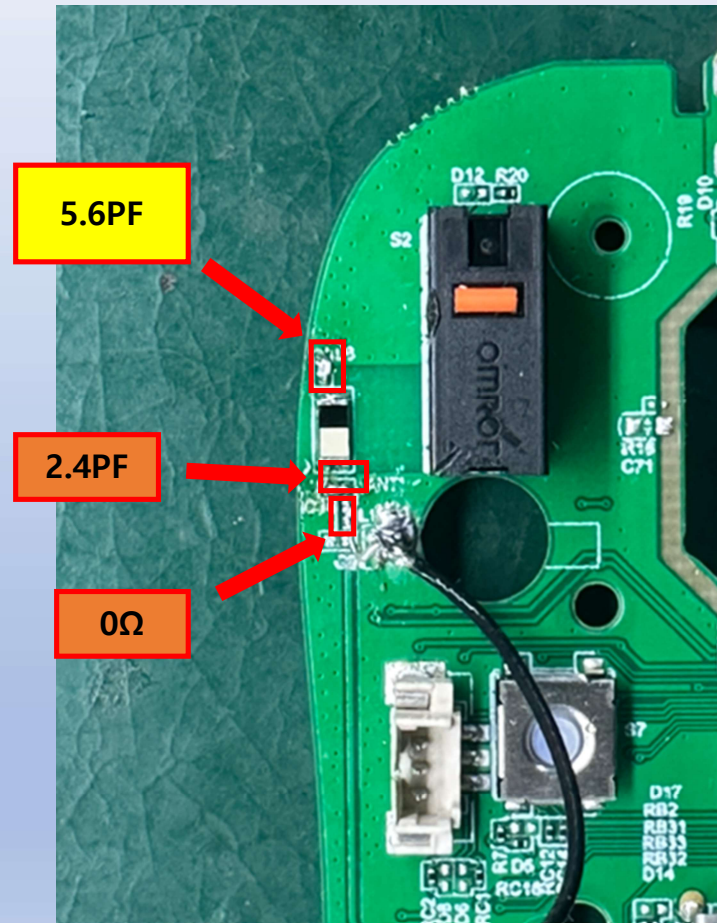
Load File: C:\Users\admin\Desktop\Add pl.csv

Debugging matching parameters



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Passive test data



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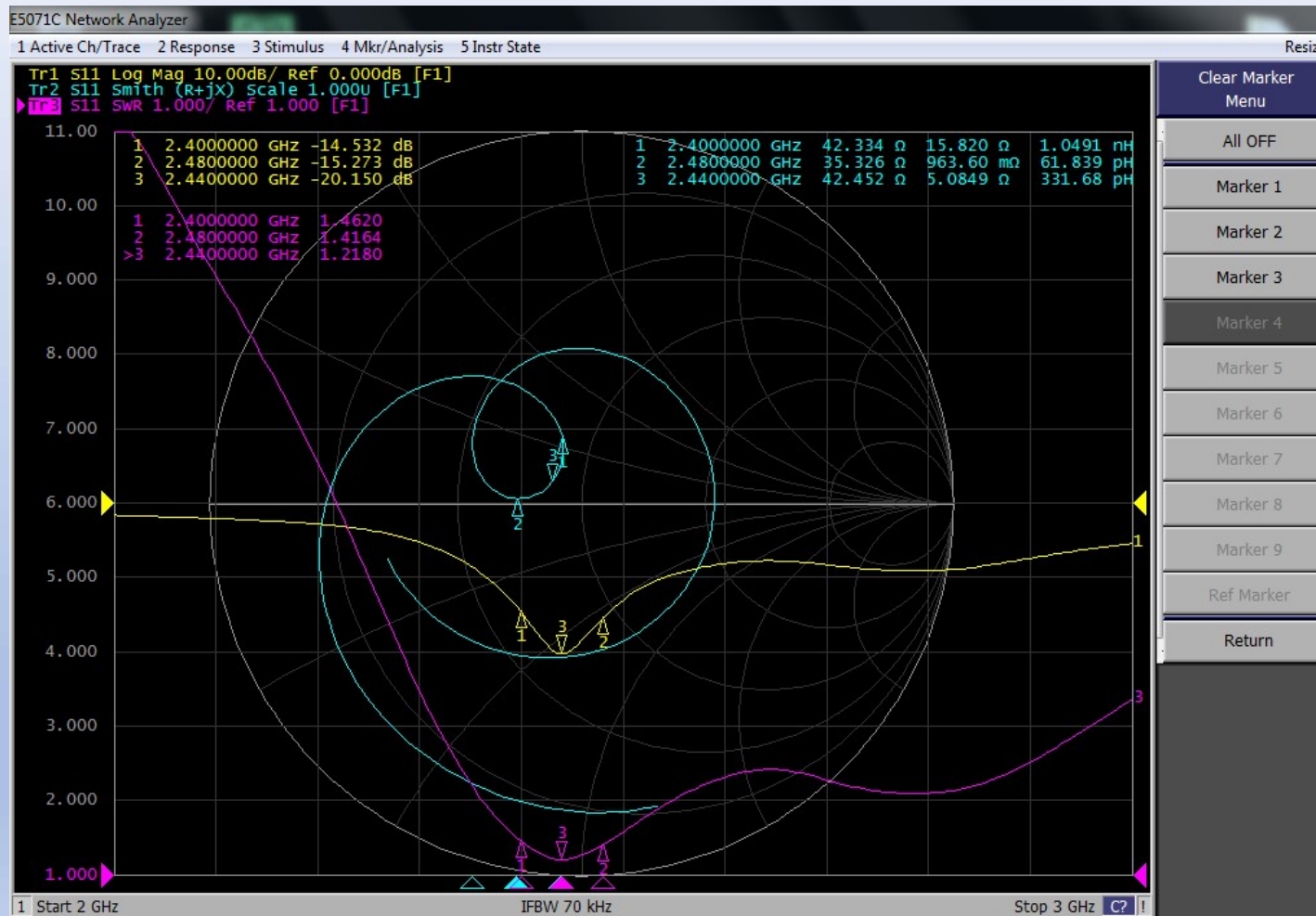
HY-3216			
Freq	Efficiency_dB	Gain_dBi	Efficiency_Pcent_%
2400	-3.33	2.33	46.44
2410	-3.05	2.61	49.6
2420	-2.9	2.69	51.24
2430	-2.72	2.86	53.47
2440	-2.64	2.9	54.43
2450	-2.63	2.88	54.6
2460	-2.68	2.81	53.98
2470	-2.71	2.73	53.62
2480	-2.82	2.55	52.3
2490	-2.96	2.38	50.62
2500	-3.13	2.16	48.62

S11&SWR&Smith



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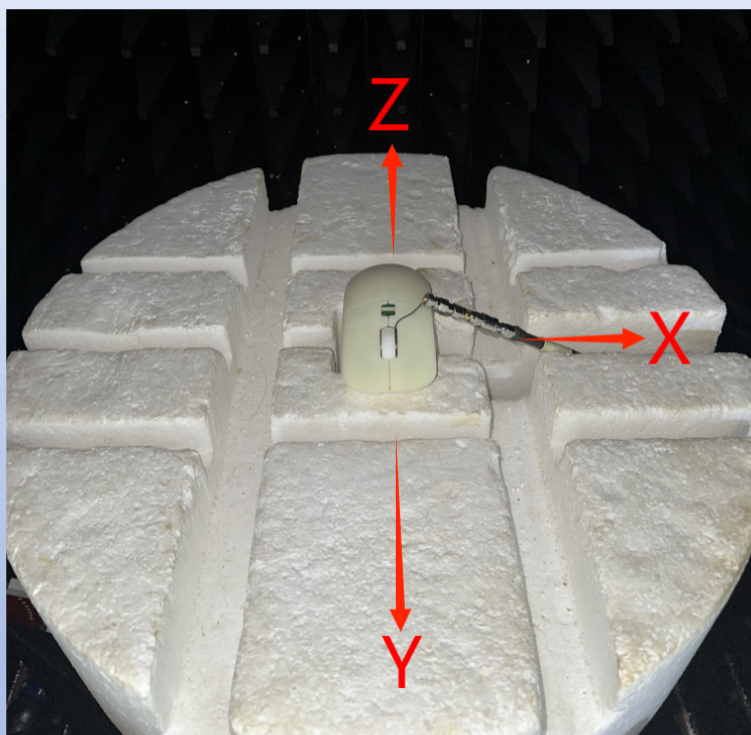
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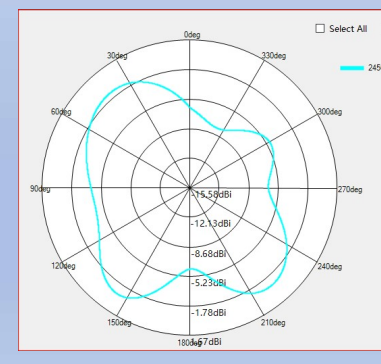
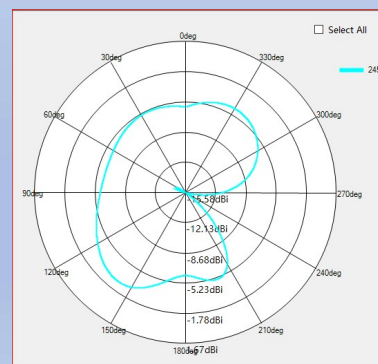
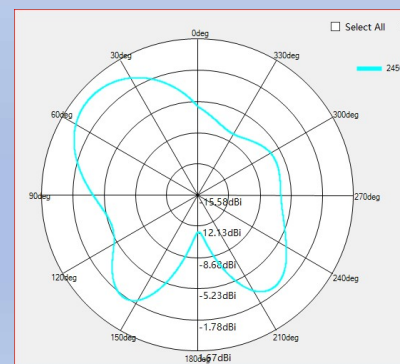
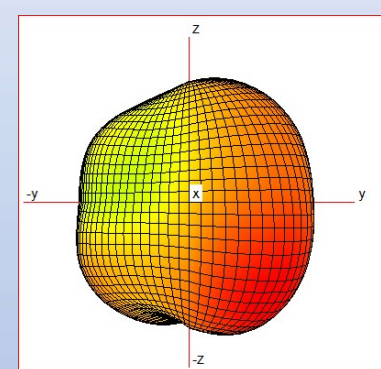
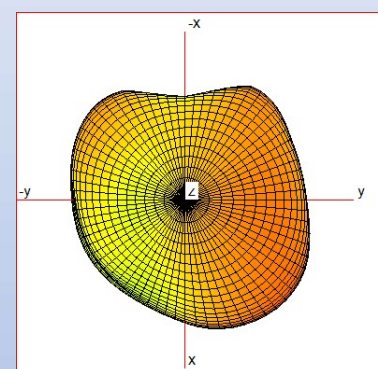
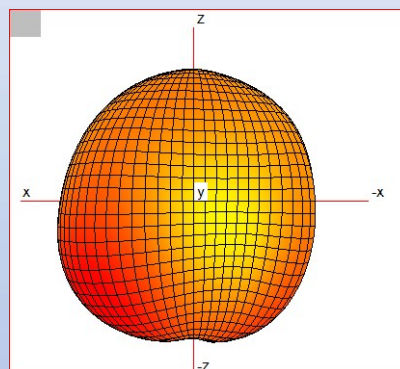
3D Radiation pattern



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HY-3216 2450MHz





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Welcome calls consultations, negotiations and guidance come!

Thank you

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