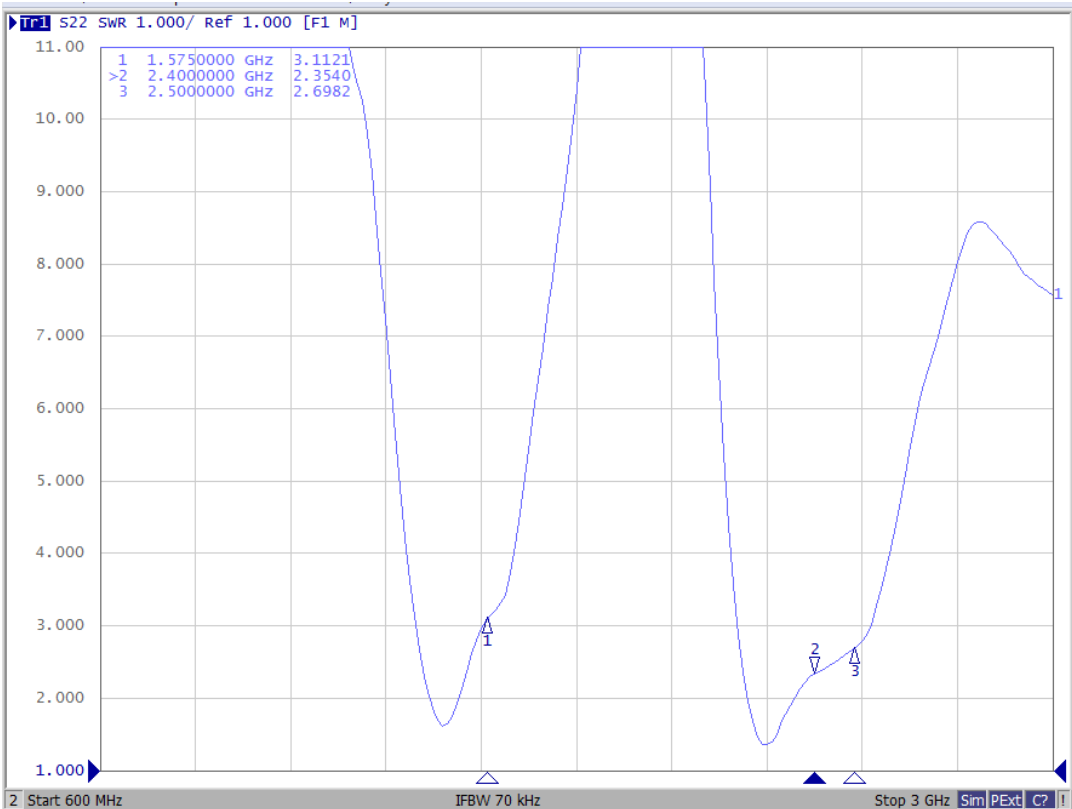


50 ohm nominal

2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	2400	2500
2-3-1. Typical Value:	≤ 2.5	≤ 3
2-3-2Measuring Method	1. A 50Ωcoaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.	
2-3-3Picture		

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± 2 X.X = ± 0.1 X.XX = ± 0.05

ANGLES = $\pm$

HOLEDIA = $\pm$

SCALE :

UNIT : mm

DRAWN BY : 李森

CHECKED BY : 肖坤雄

DESIGNED BY : 苏汉鹏

APPROVED BY : 王伟

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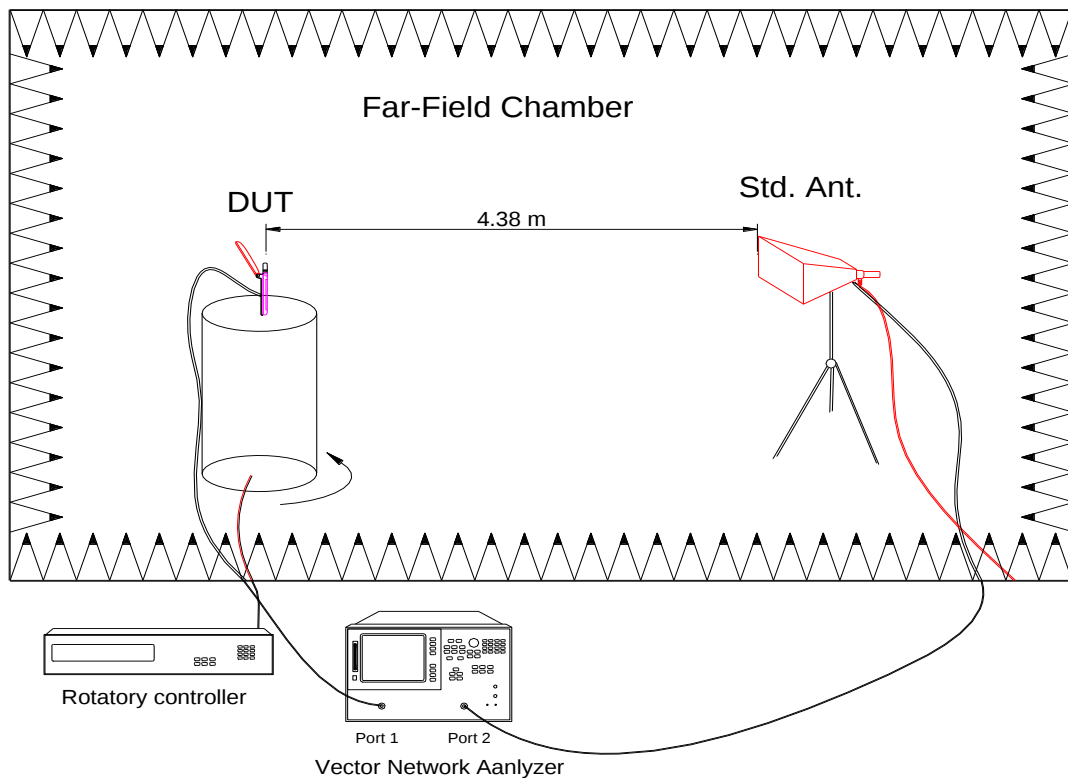
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2-4. Measure and Chamber

2-4-1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

2-4-2 Chamber definition



1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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2-4-3 Antenna OTA

2-4-4 Antenna Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2350	-0.07	-3.48	45%
2360	-0.05	-3.43	45%
2370	0.04	-3.63	43%
2380	0.10	-3.53	44%
2390	0.45	-3.25	47%
2400	0.74	-3.29	47%
2410	0.73	-3.29	47%
2420	0.86	-3.07	49%
2430	1.02	-3.06	49%
2440	0.93	-3.22	48%
2450	0.87	-3.06	49%
2460	1.04	-2.99	50%
2470	0.84	-3.18	48%
2480	0.68	-3.10	49%
2490	0.72	-3.09	49%
2500	0.29	-3.40	46%
2510	-0.16	-3.63	43%
2520	-0.27	-3.67	43%
2530	-0.65	-4.07	39%
2540	-1.11	-4.49	36%
2550	-1.32	-4.74	34%

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SCALE :

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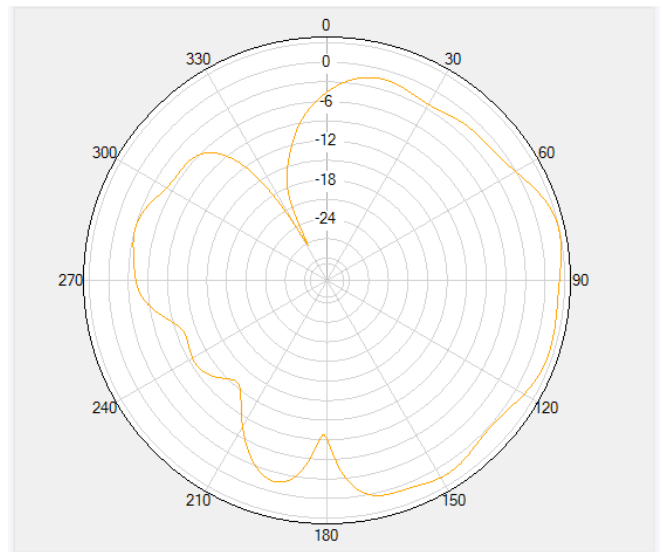
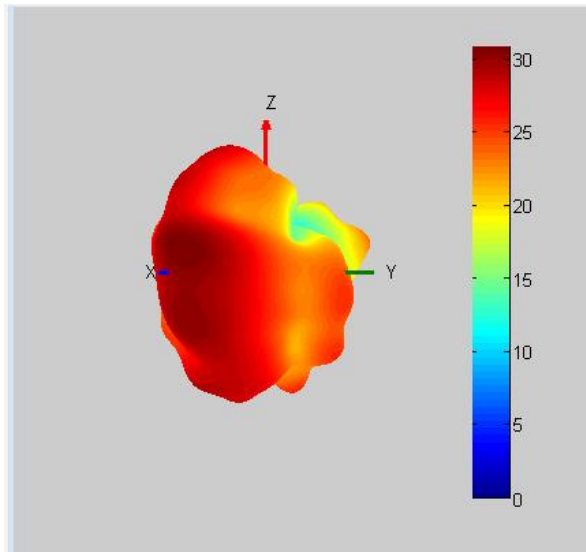
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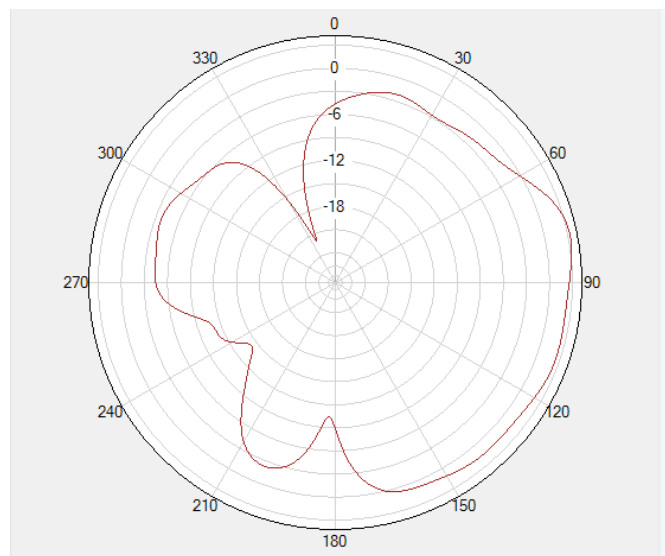
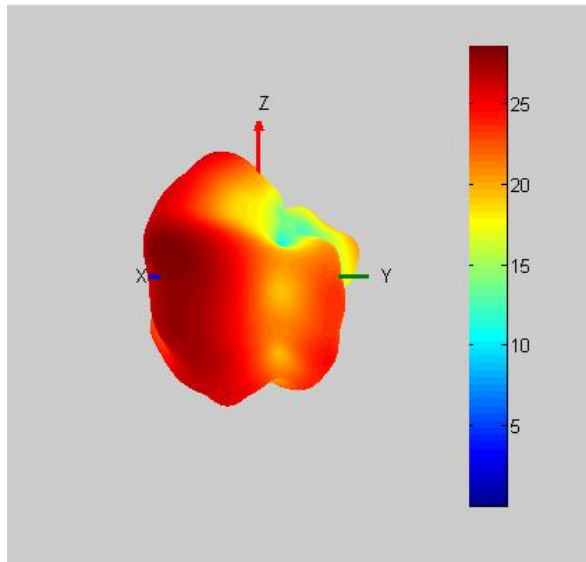
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3. 3D Radiation Pattern

[2400MHz]



[2450MHz]



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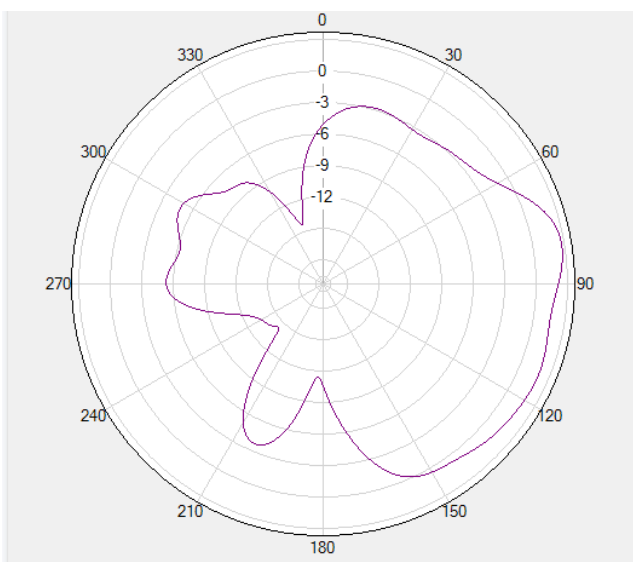
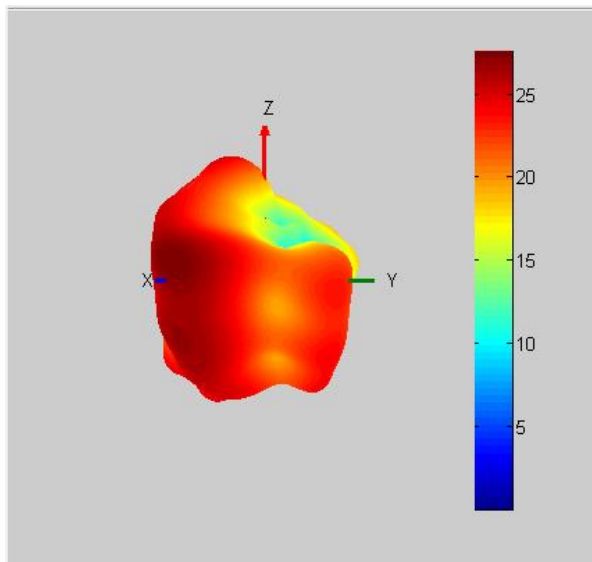
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[2500MHz]



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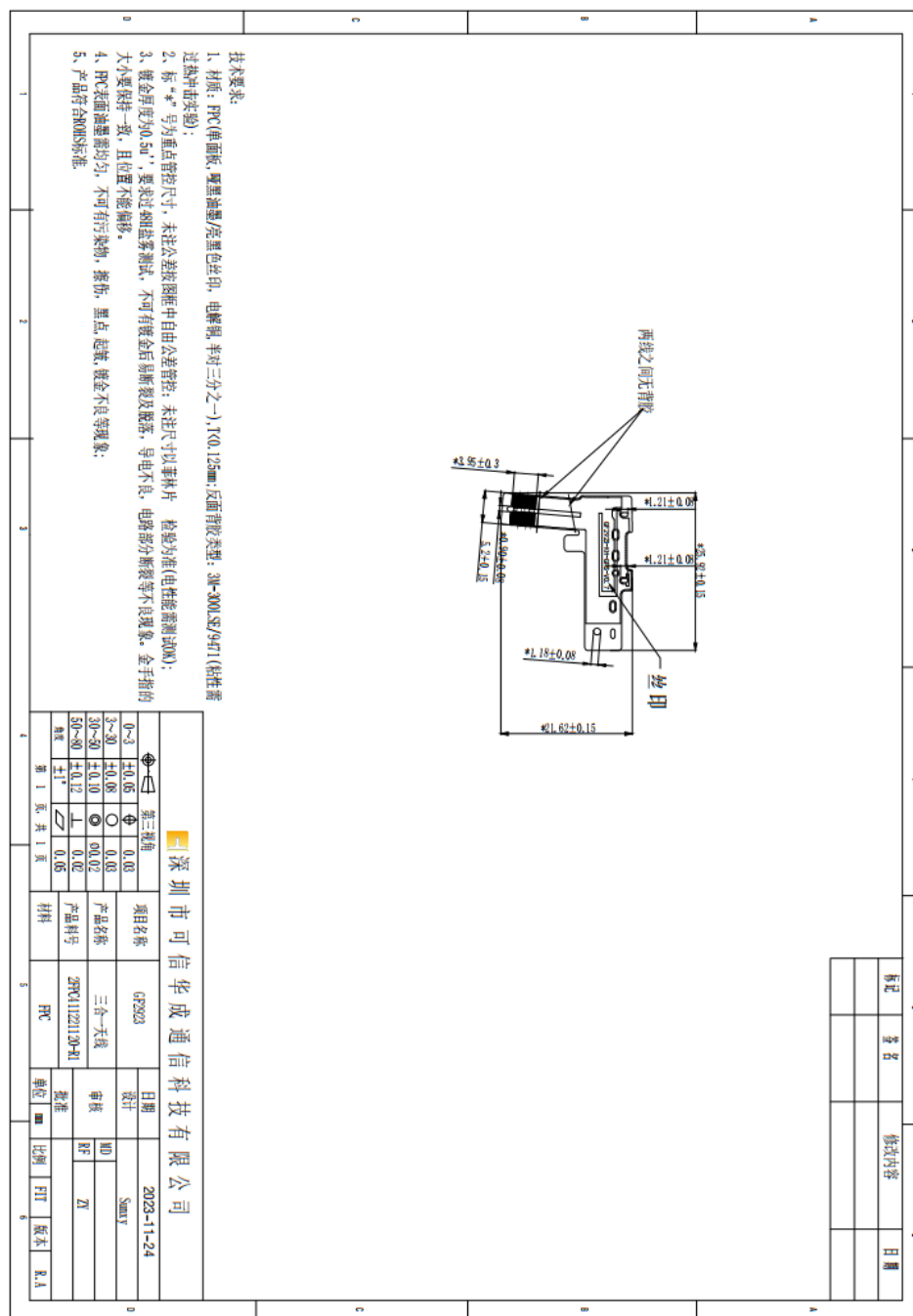
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4. Antenna Dimensions:



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HOLEDIA = ±

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