



Antenna Approval Sheet

For

E305W Project

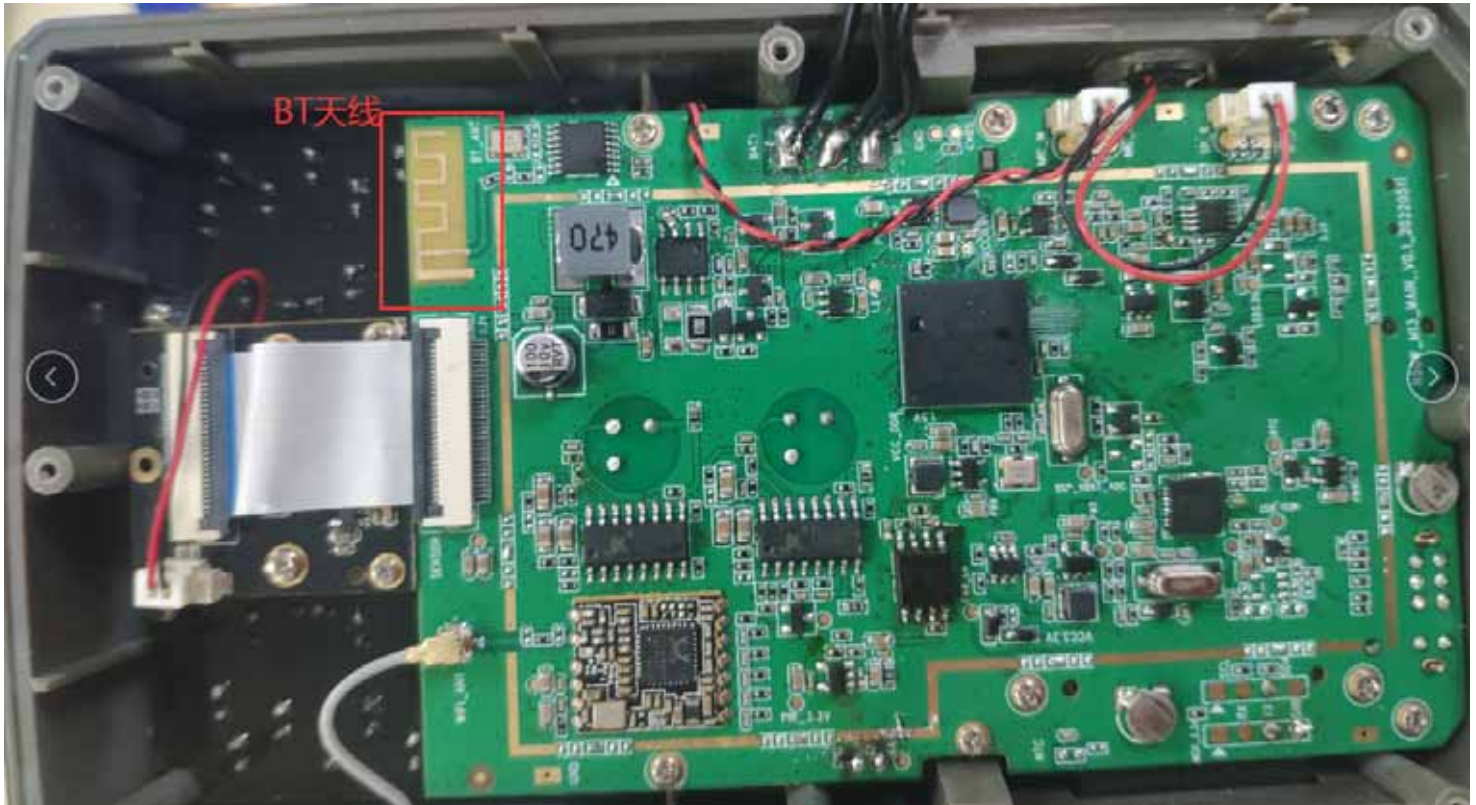
Customer	福克创新	Project	E305W
Band	BT 2.4GHZ		
ZC PN	E305W-BT		
Version	R:A	Data	2023-2-8

Issued by	
Checked By	
Confirmed By	
Cust Confirm	



1.Summary of the DUT

E305W-BT Picture



2. Electrical Specification:

Antenna types	板载 2.4GHz Bluetooth antenna
Frequency	2400-2500 MHz
Impedance	50 Ω
VSWR	< 2
Gain	1.16 dBi REF
Efficiency	>30 %



3. Test Condition

3.1	测试项目	测试设备和型号	备注
1.无源测试	1. Antenna Gain 2.S.W.R 3. Return Loss 4. Radiation Pattern	1. Network analyzer (R&S ZVL6) 2. Network analyzer (HP 8753D)	

3.2 Matching Circuit The matching circuit was Default

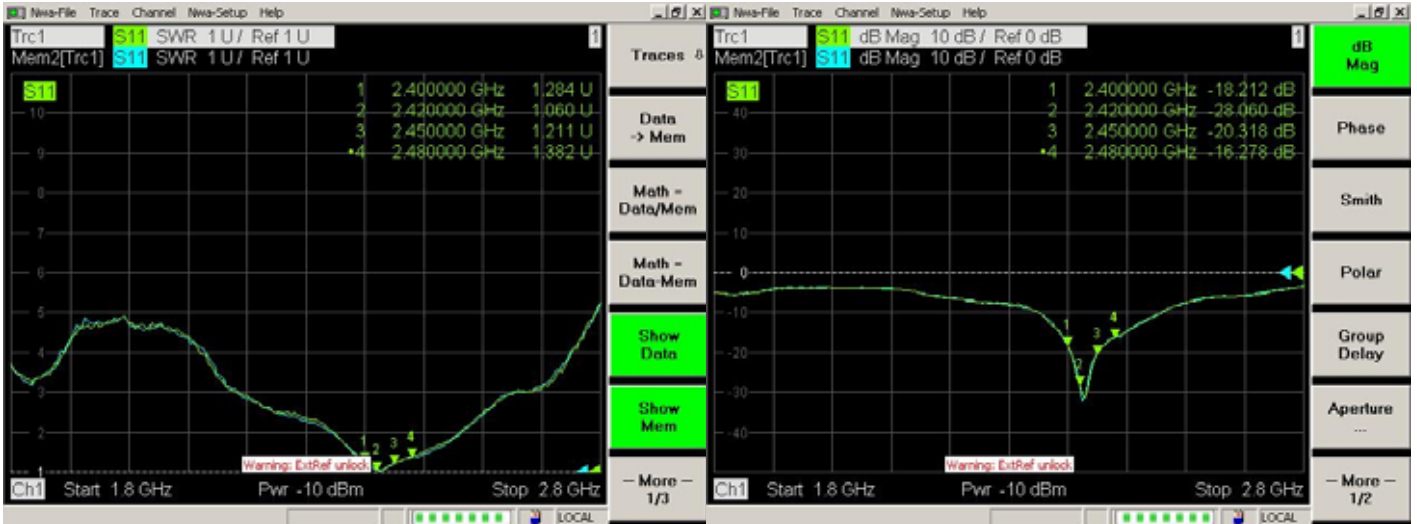
4. RF Performance

4.1 Passive parameters

Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.75	0.65	0.84	0.82	1.16	0.91	0.78	0.62	0.32	0.28	0.53
Antenna Peak Gain	1.16dBi										

4.2 S Parameter

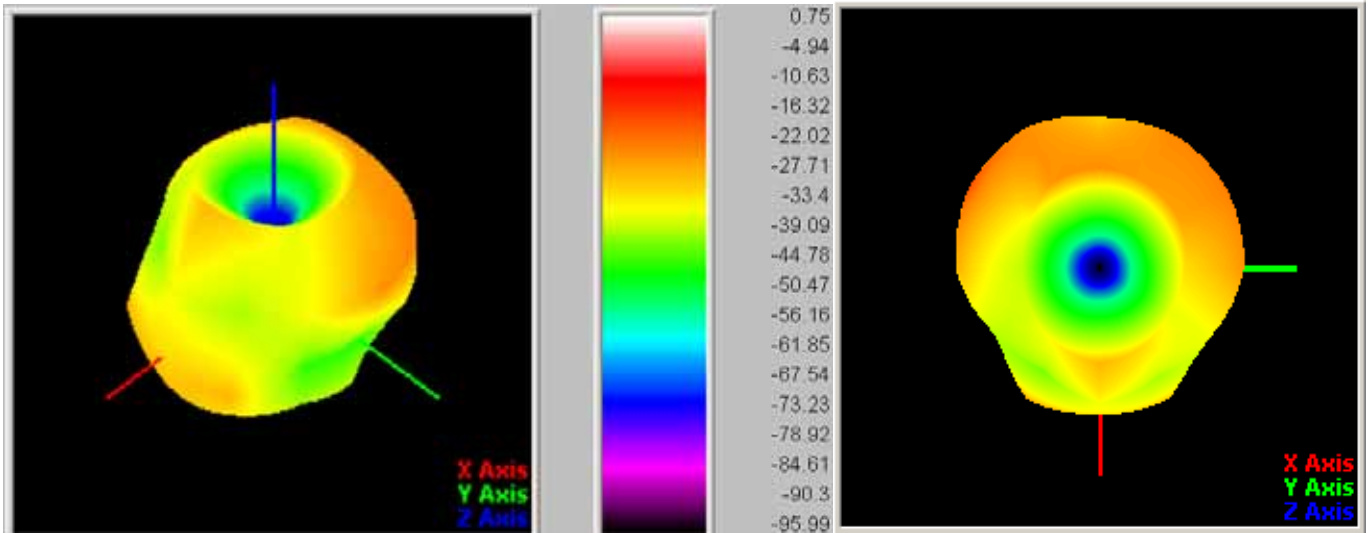
Frequency (MHz)	2400	2450	2480
Return Loss(dB)	-18.21	-20.31	-16.27
VSWR	1.28	-1.21	1.38



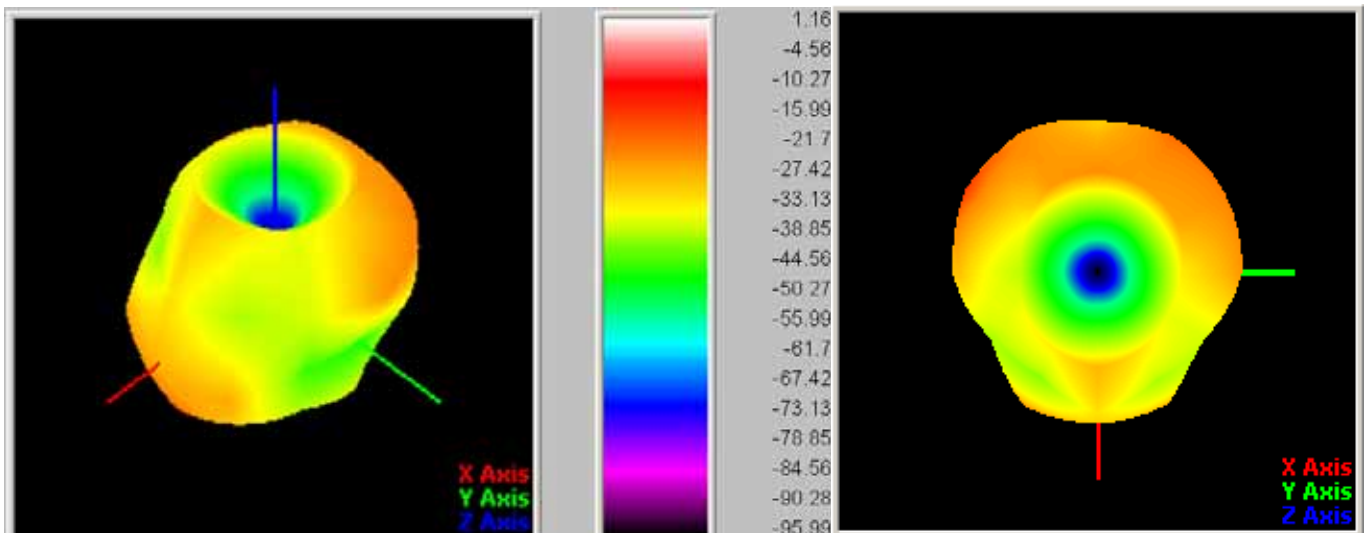


4.3 Radiation Pattern

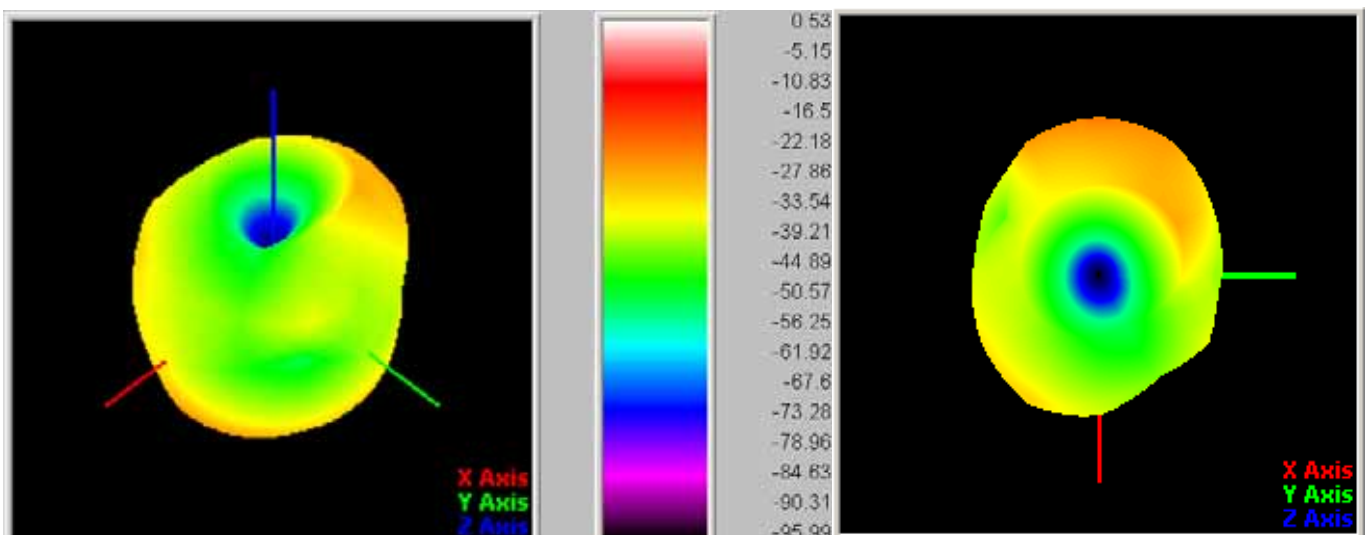
4.3.1 Antenna 3D Radiation Pattern



Freq2400.00MHZ



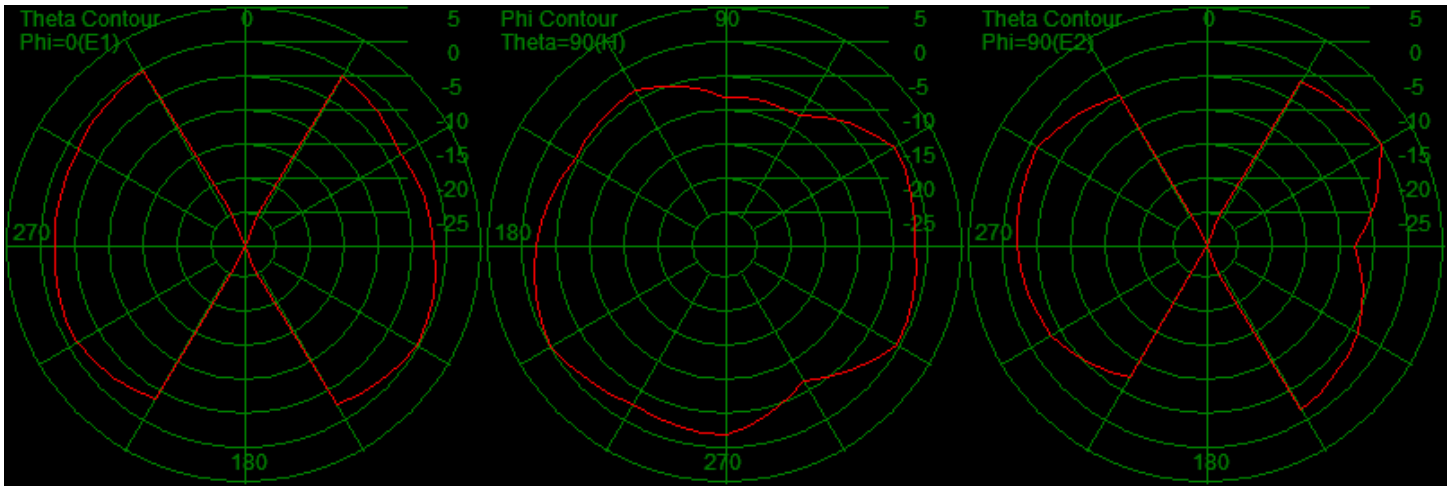
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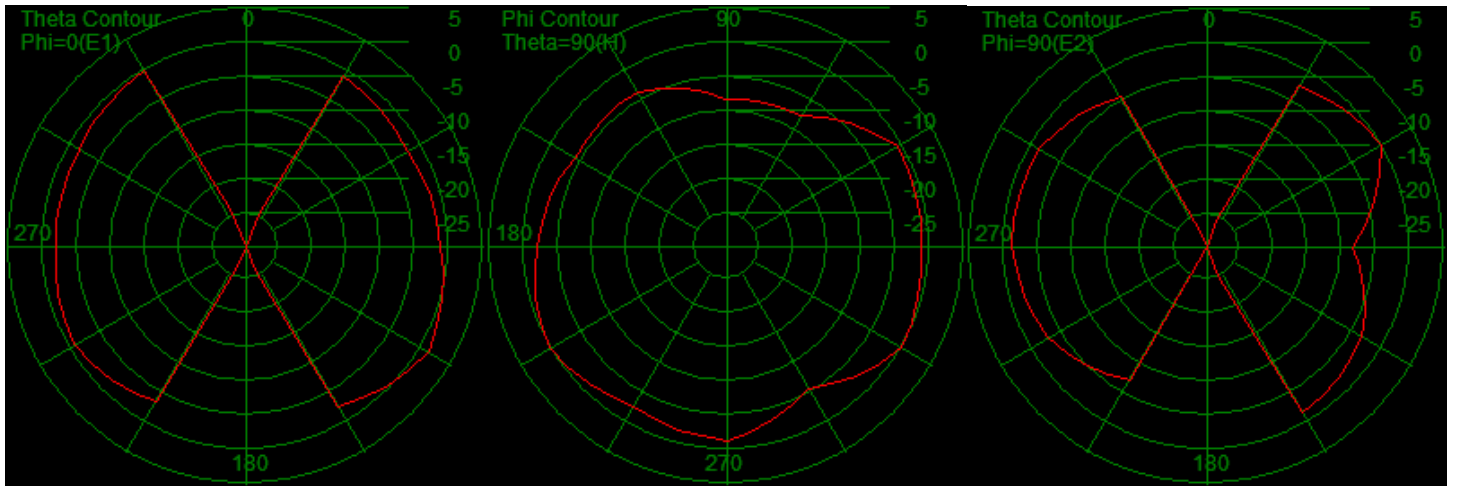
Freq2500.00MHZ



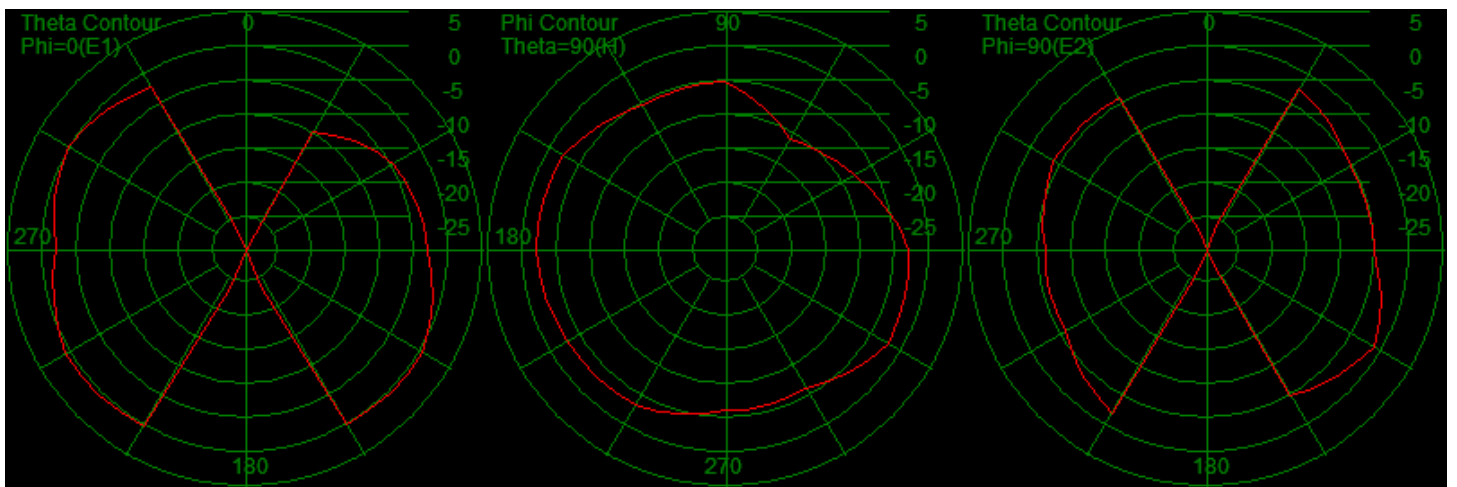
4.3.2 Antenna 2D Radiation Pattern (UNIT :db)



Freq2400.00MHZ



Freq2440.00MHZ



Freq2500.00MHZ