
Heyuan Xunwei Communication Technology Co., Ltd

SPECIFICATION FOR APPROVAL

supplier: _____Heyuan Xunwei Communication Technology Co., Ltd_____

Supplierspecifications: Main antenna

Supplier model: XW-V7-V2.0

Customer Name : IBE

Customer Item No : v7

Version No : 1.0

Sample delivery date : 2025/11/26

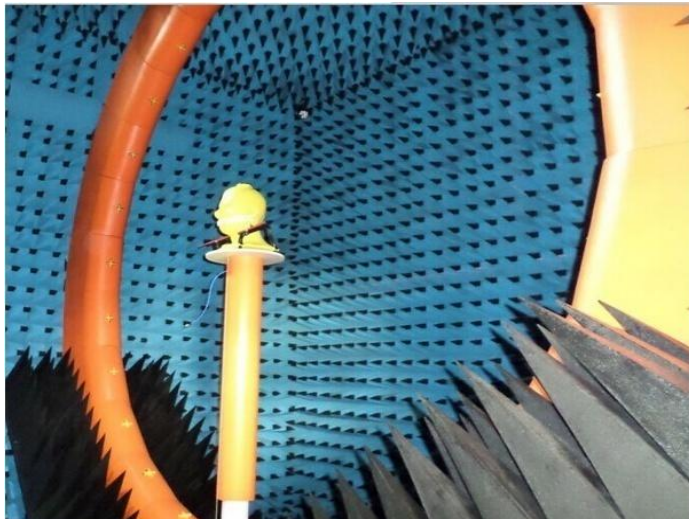
Antenna Type: FPC Antenna

Address: A316, Building A, Languang Technology Building,
No. 5 Xinxi Road, Nanshan District, Shenzhen

Ackno wledg ment column	supplier	RF Engineer	to examine	approval	file
		Wang	li	yue	chenting
	customer	Certified Engineer	to examine	approval	file

Heyuan Xunwei Communication Technology Co., Ltd

1 . Test instrument and environment: STM darkroom, CMW500 / E5071B, the mobile phone is placed back to the turntable 4 meters away from the standard horn antenna:



2. Antenna performance:

序号	Work index	Working parameters
1	working frequency	2400-2500MHZ
2	Standing wave ratio	≤ 2.0
3	Return loss	-10dB Max
4	Antenna gain	Peak gain 2400MHZ-2500MHZ:1.97 dBi
5	Antenna efficiency	45%
6	Polarization direction	Vertical / horizontal
7	Interface type	dipole
8	Antenna size	antenna:52.38*12.55*0.14MM

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3. Antenna passive data S11, VSWR
(free space):



(left hand)



(right hand)

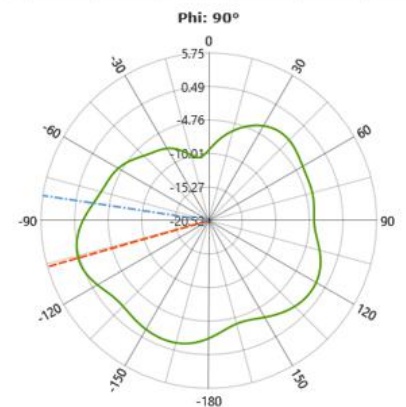
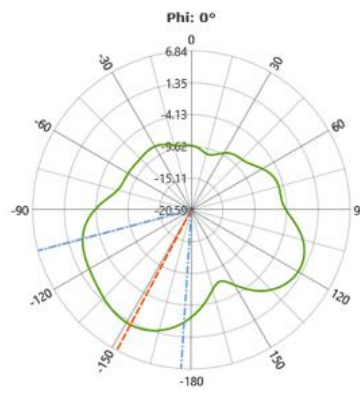
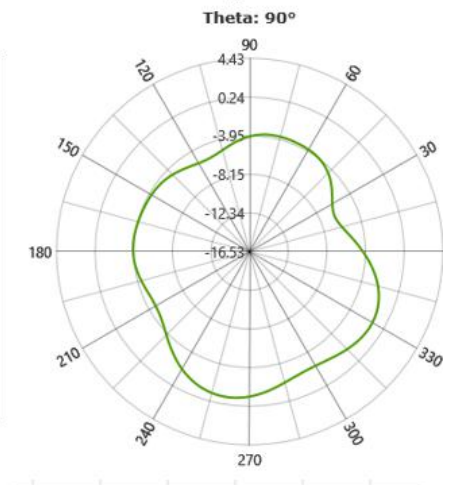
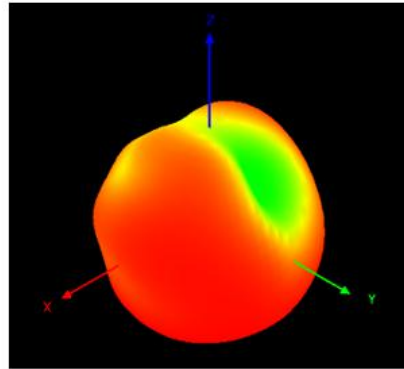


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3. Gain of efficiency:

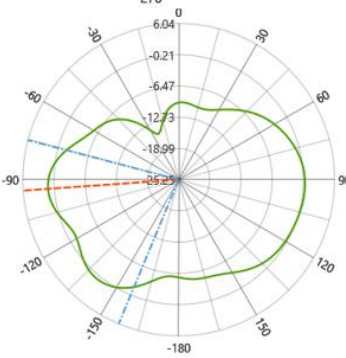
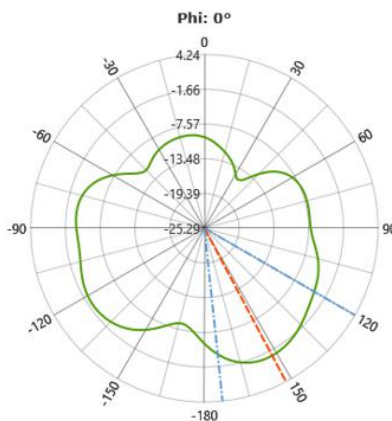
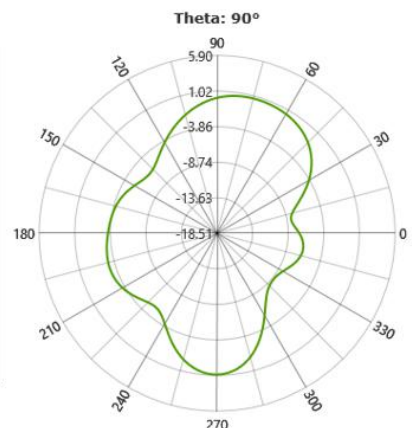
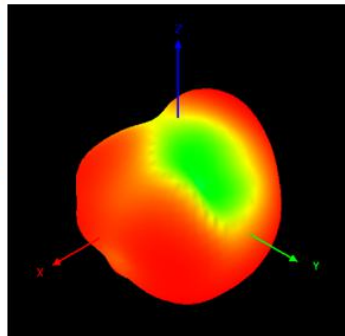
1、自由空间 **free space**

Passive Test For 2.4G效率		
Frequency (Mhz)	Efficiency (%)	Gain Max (dbi)
2400	55.23	1.95
2410	55.33	1.93
2420	55.77	1.97
2430	56.06	1.78
2440	57.19	1.86
2450	57.15	1.89
2460	56.86	1.61
2470	57.94	1.86
2480	59.05	1.64
2490	59.58	1.85
2500	60.13	1.75



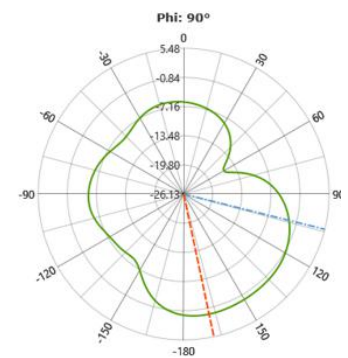
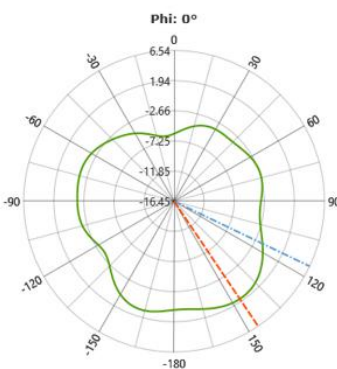
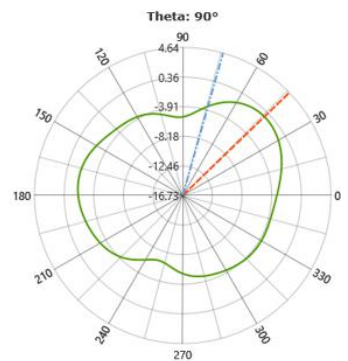
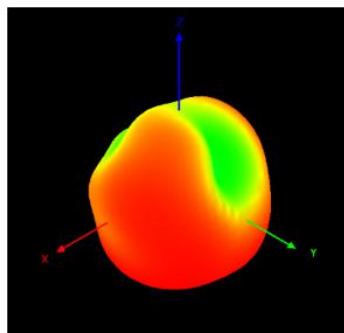
2、右手right hand

Passive Test For 2.4G效率		
Frequency (Mhz)	Efficiency (%)	Gain Max (dbi)
2400	40.6	1.27
2410	39.84	1.33
2420	38.73	1.40
2430	40.63	1.47
2440	42.44	1.62
2450	42.81	1.96
2460	41.99	1.63
2470	44.11	1.73
2480	45.72	1.78
2490	45.02	1.73
2500	46.24	1.67



3、左手left hand

Passive Test For 2.4G效率		
Frequency (Mhz)	Efficiency (%)	Gain Max (dbi)
2400	41.08	1.19
2410	42.19	1.31
2420	42.06	1.35
2430	41.85	1.22
2440	42.29	1.45
2450	41.28	1.37
2460	41.06	1.54
2470	41.37	1.46
2480	41.11	1.51
2490	39.92	1.49
2500	39.33	1.43



6. antenna orientation diagra

