

Antenna specification

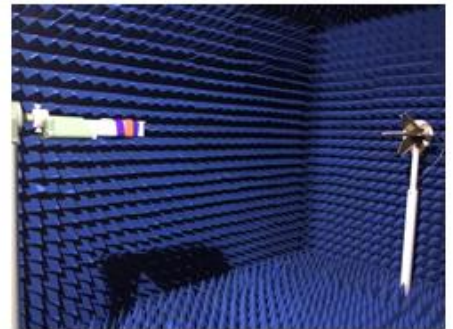
Customer name:

Project name		Antenna band	BT
Specification description	☐ Bracket + shrapnel	☐ Single shrapnel	☐ Stand +FPC+ Thimble
	☐ FPC	☐ FM antenna	☐ GPS antenna
	Bluetooth antenna		
	☐ Coaxial line	☐ WIFI antenna: ☐ FPC+ wire: ☐ PCB+ line length:	
Customer confirmation			

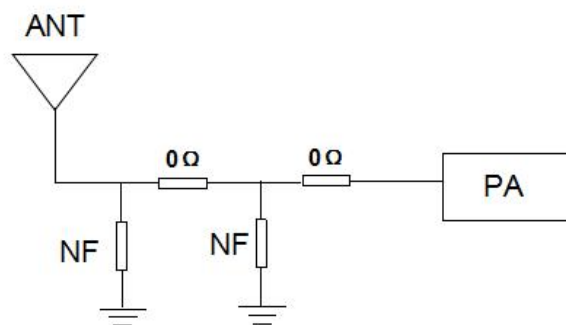
Supplier confirmation	Radio-frequency validation	Structure validation	examine
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1. Test items and equipment

	Test item	equipment
1. S-parameter	1. Return Loss 2. Voltage Standing Wave Ratio (VSWR)	Network analyzer: Agilent E5071B HP 8753D
2. Active Testing	1. Transmit Power (TRP) 2. Reception Sensitivity (TIS)	1. darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive tester: Agilent 8960 E5515B ×2 StarPoint SP6011
3. Passive Testing	1. Antenna Gain 2. Antenna Efficiency	1. darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network analyzer: Agilent E5071B HP 8753D

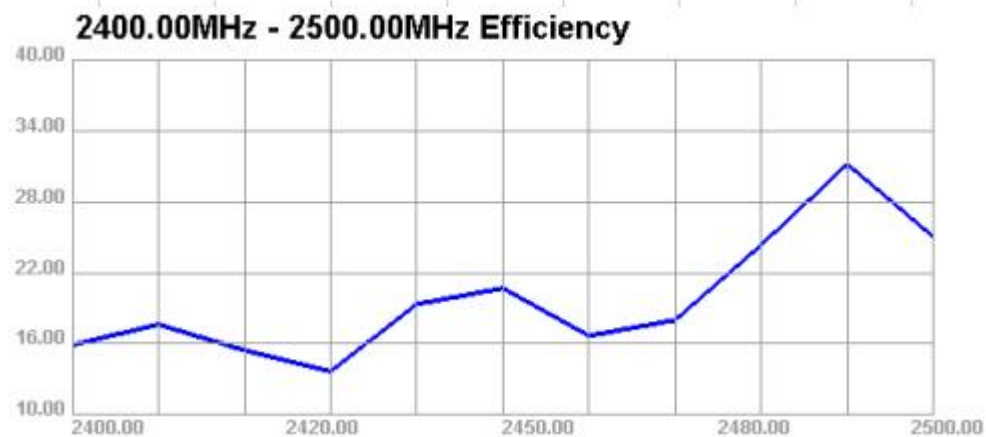
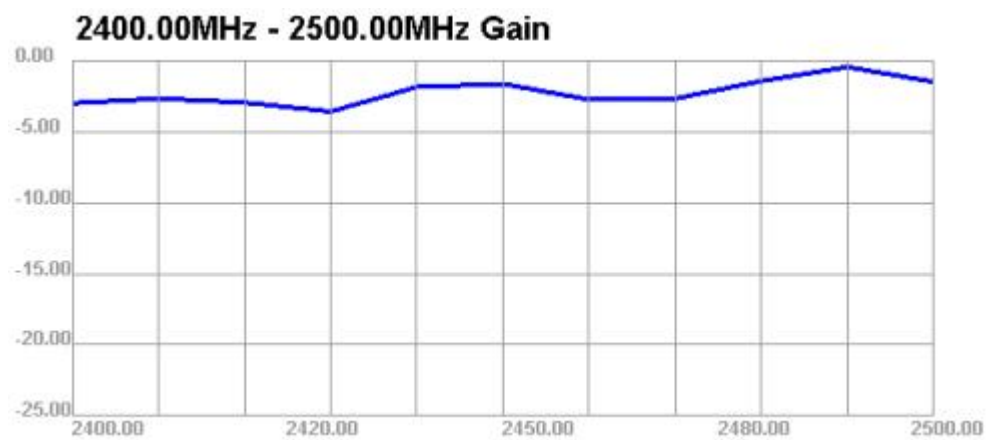


2. Matching circuit -BT antenna:

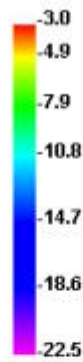
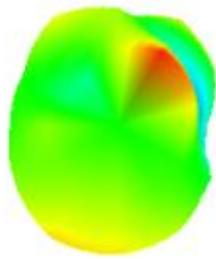


3.Efficiency and gain

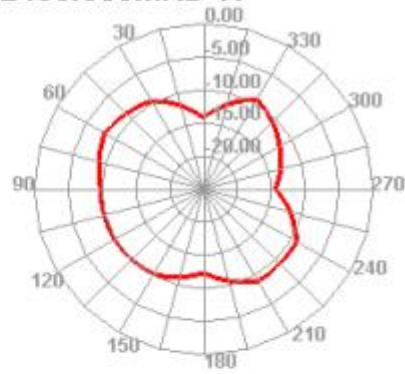
Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	15.92	-7.98	-3	-5.15	8.988	6.933	-3	-22.53	52.03	53.99
2410	17.64	-7.53	-2.67	-4.82	10.074	7.569	-2.67	-22.33	51.99	53.84
2420	15.46	-8.11	-2.94	-5.09	8.699	6.763	-2.94	-23.73	52.04	53.98
2430	13.69	-8.64	-3.58	-5.73	7.69	6.002	-3.58	-24.29	52.23	54.02
2440	19.36	-7.13	-1.86	-4.01	10.959	8.404	-1.86	-23.75	52.54	54.25
2450	20.71	-6.84	-1.64	-3.79	11.866	8.84	-1.64	-22.69	52.64	54.11
2460	16.69	-7.78	-2.73	-4.88	9.754	6.935	-2.73	-23.09	52.59	54.02
2470	18.01	-7.44	-2.67	-4.82	10.83	7.184	-2.67	-20.29	52.66	54.04
2480	24.36	-6.13	-1.43	-3.58	14.934	9.428	-1.43	-19.13	53.06	54.43
2490	31.18	-5.06	-0.45	-2.6	19.202	11.976	-0.45	-17.55	53.33	54.57
2500	25.04	-6.01	-1.49	-3.64	15.699	9.34	-1.49	-18.19	53.11	54.29



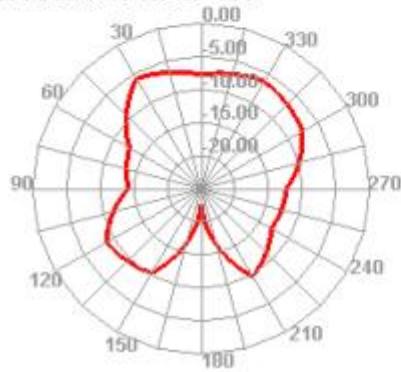
2400.000MHz



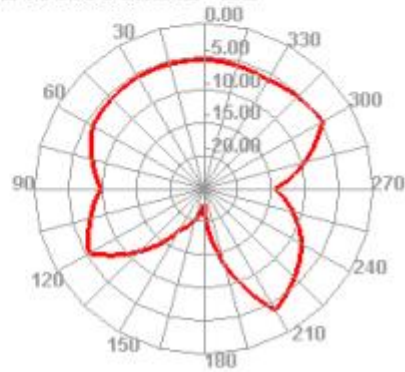
2400.000MHz H



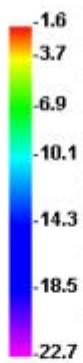
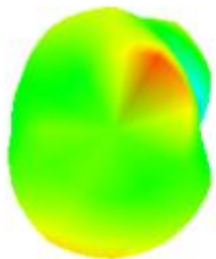
2400.000MHz E1



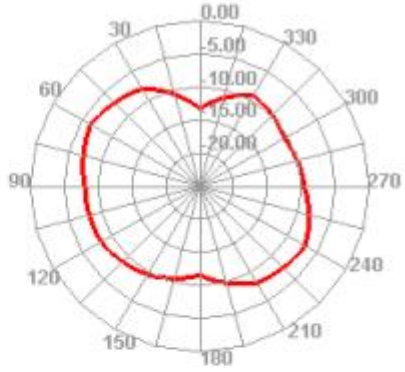
2400.000MHz E2



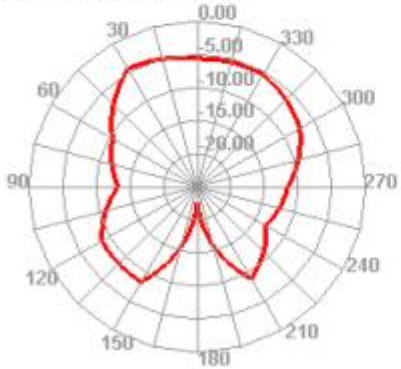
2450.000MHz



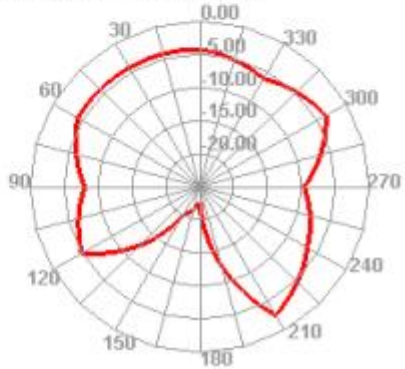
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



4. Antenna size

