



中山市博安通通信技术有限公司

ZHONGSHAN B&T TECHNOLOGY Co., Ltd

零件规格承认书

Approval Specification

正式 ☒ / 条件 ☐

类型: Type: 2.4 / 5.8G 内置天线

范例 R3 代码: R3 Code: 850292409

范例图号: Part Number: TX-DM500BD113B63M

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Project :Y202104090061

Date. 2024.04.03

REV: A3

Antenna SPEC

Customer name: 广东长虹

Customer project: 长虹电视系

Part Number: 850292409

B&T P/N: AG-041533-2220

Spec.: 2.4 / 5.8G Internal antenna(shrapnel 30 × 11 × 5.2)-Black
line 1.13-terminal, see line length 485mm

Sealed by corporation:

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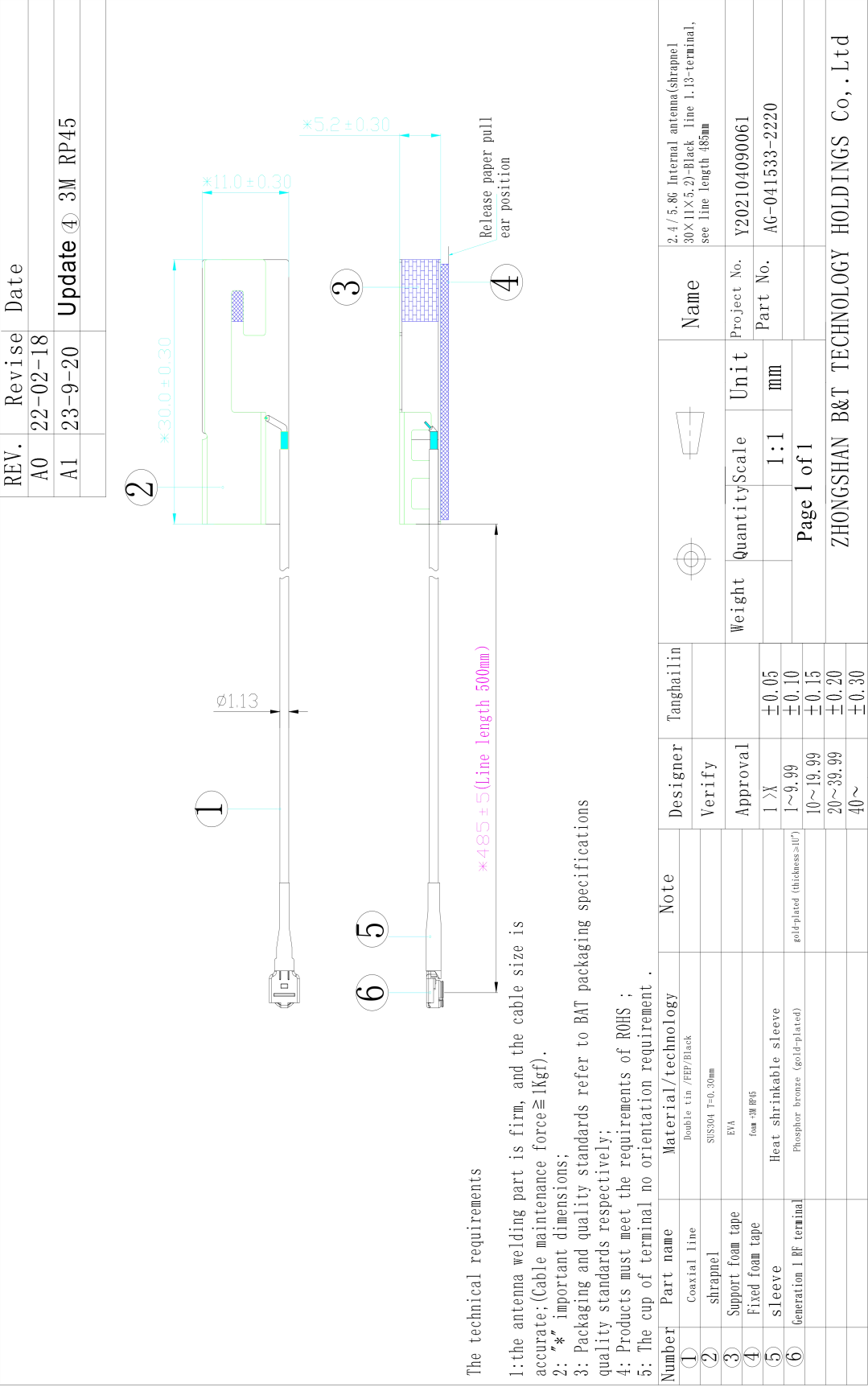
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3、Product drawing

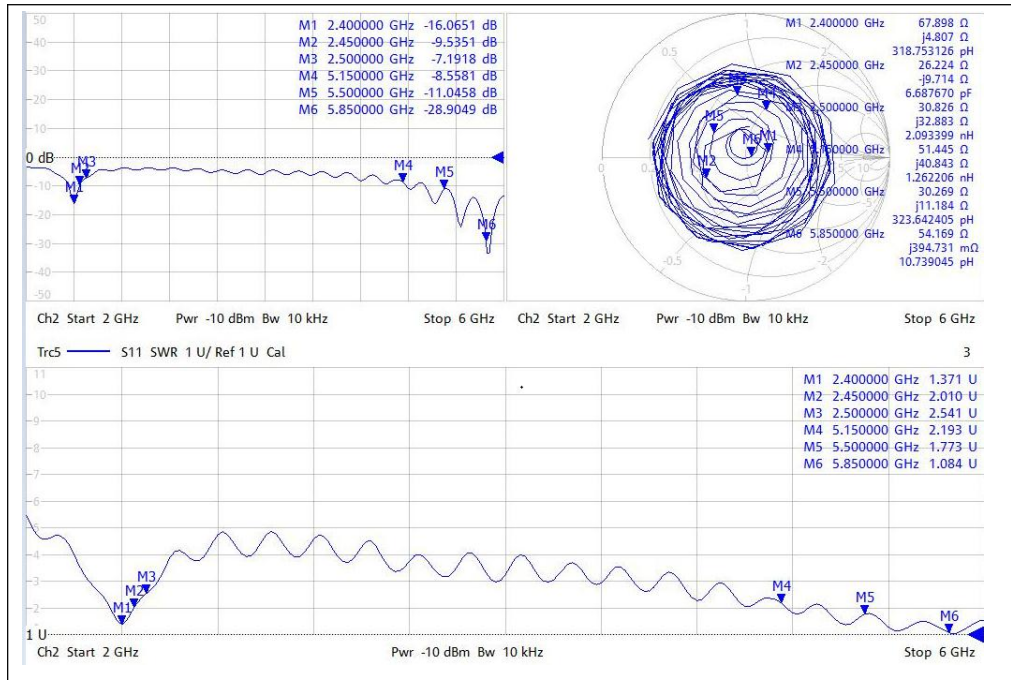


4、Properties ¶meter

Electrical Parameter		
Freq Range		2400~2500MHz/5150-5850MHz
Characteristic Impedance		50 Ω
VSWR		sample of reference project
Max gain	2.4G	0.46dBi
	5.8G	1.48dBi
The Max input power		<10w
Polarization mode		Polar linearization
Radiation mode		Omni directional
Antenna Type		PIFA
Connector style		IPEX terminal
Mechanics Properties		
Length		See line length $485 \pm 5\text{mm}$ /Bus line length $500 \pm 5\text{mm}$
Maintain the force		$\geq 1\text{Kgf}$
Coaxial cable		Black1.13 double tin wire
Salt spray test		24H
Environment parameter		
Operating Temp		$-30^{\circ}\text{C} \sim 65^{\circ}\text{C}$

5、Electrical test report

S11 Parameter



Electrical Performance Test Parameter Table

Freq/MHz	2400MHz	2450MHz	2500MHz	5150MHz	5550MHz	5850MHz
VSWR	1.37	2.01	2.54	2.19	1.77	1.08

Efficiency & Gain

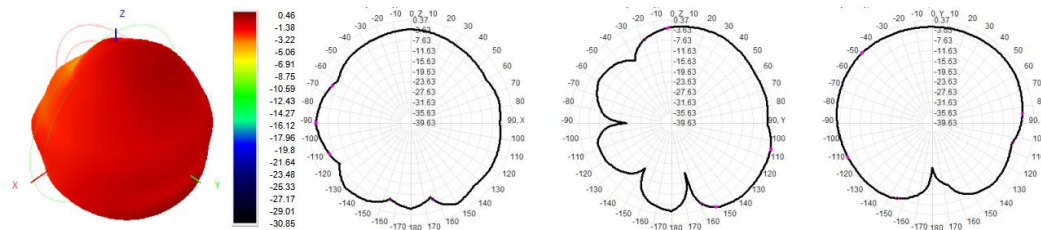
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.93	0.46	40.47
2410.0	-3.99	0.44	39.93
2420.0	-4.09	0.25	38.96
2430.0	-4.28	0.03	37.32
2440.0	-4.58	-0.26	34.83
2450.0	-4.86	-0.56	32.66
2460.0	-5.06	-0.88	31.20
2470.0	-5.23	-1.15	30.02
2480.0	-5.43	-1.44	28.67
2490.0	-5.98	-1.96	25.25
2500.0	-6.13	-2.10	24.37

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
5150.0	-8.11	-2.40	15.47
5250.0	-7.04	-1.12	19.76
5350.0	-6.82	-1.58	20.78
5450.0	-5.72	0.19	26.77
5550.0	-5.49	0.20	28.27
5650.0	-5.04	1.15	31.34
5750.0	-5.14	1.48	30.59
5850.0	-4.77	1.41	33.37

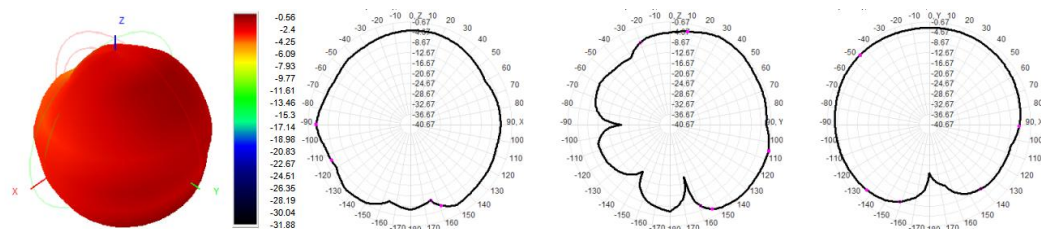
Radiation pattern

ANT-2.4G-1-2D-3D

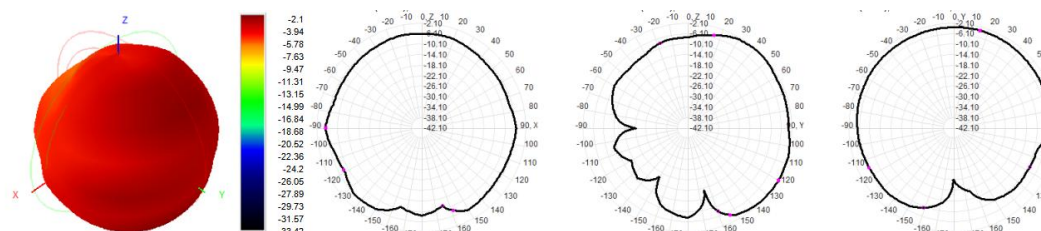
2400MHz



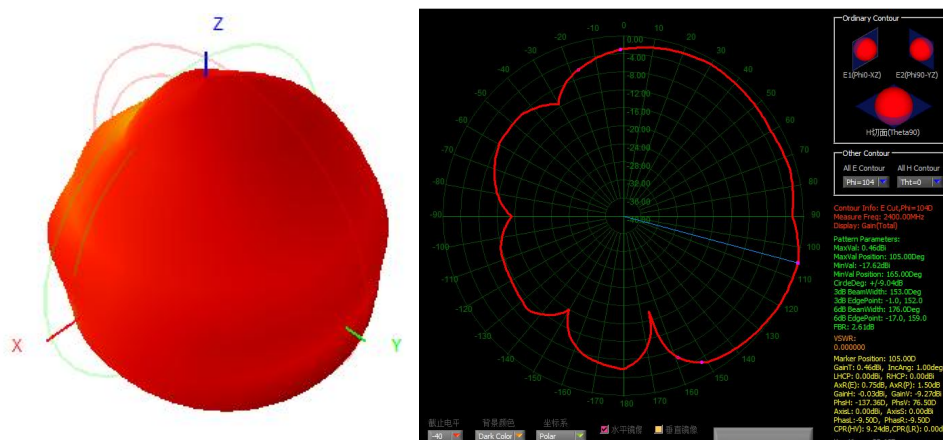
2450MHz



2500MHz

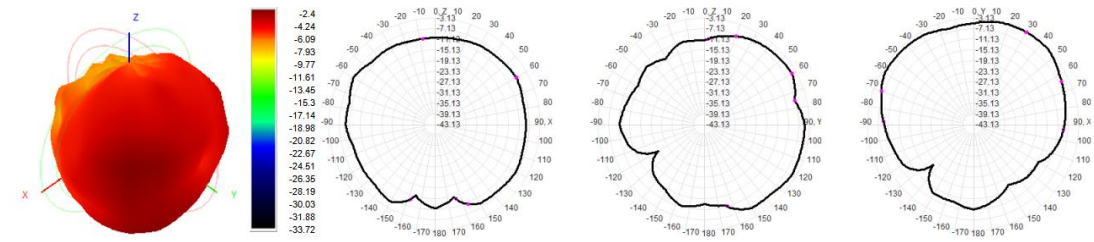


2400-2500MHz 最大增益点 2400MHz 0.46dbi

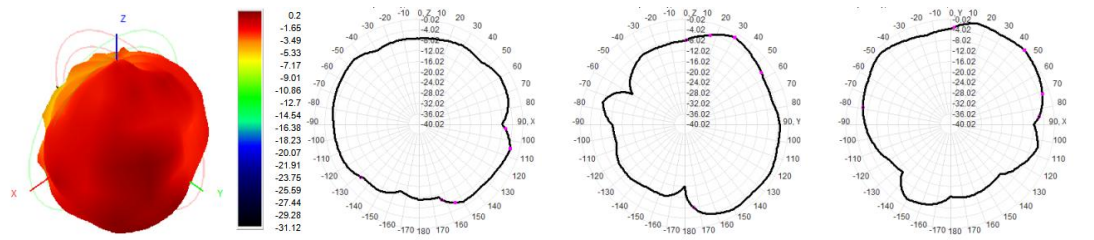


ANT-5.8G-1-2D-3D

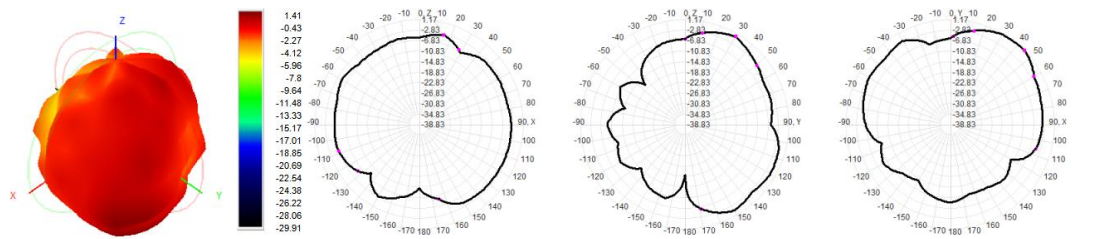
5150MHz



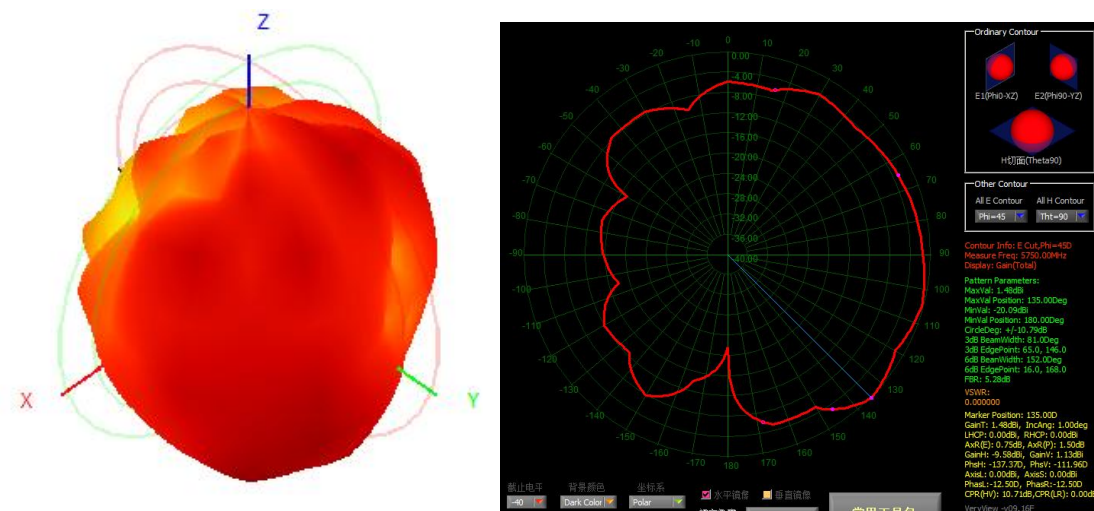
5550MHz



5850MHz



5150-5850MHz 最大增益点 5750MHz 1.48dbi



PACKING CRITERION

P/N: AG-041533-2220

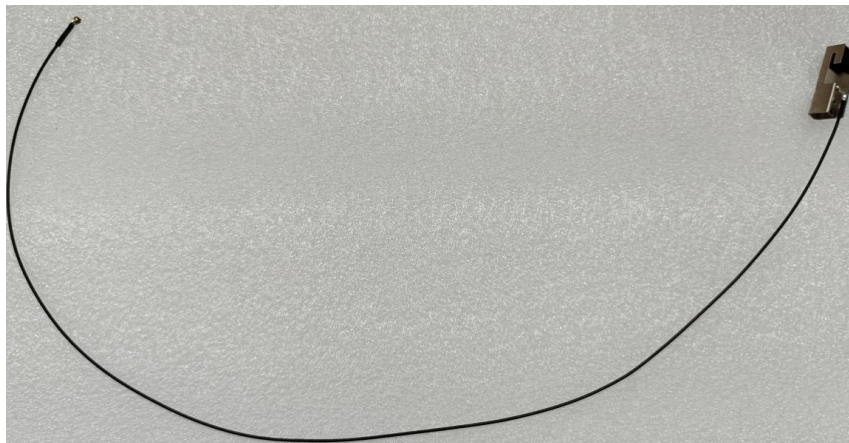
Spec.: 2.4 / 5.8G Internal antenna(shrapnel $30 \times 11 \times 5.2$)-Black line 1.13-terminal, see line length 485mm



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Packing requirement

7、Antenna photo



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