

规格承认书
Specification sheet

客 户	星卡
Customer name	
客户料号	1. 02. 23. 0152
Customer P/N	
品 名	2. 4+5G 双频, FPC L*W*T=32.4*7.8*0.25MM, 表面黑色
Article Description	油墨, IPEX 接 1.13 黑色线, 线长 48mm, ROHS
同讯料號	KC. IA. 00578
TOXU Part No.	
承认书号码	A20241017-001
Approval sheet No.	
日 期	2024. 10. 17
Date	

承认填写栏 Signature confirmation	
供应商确认 (供方填写栏) Supplier signature	客户承认 (需方填写栏) Customer signature
李德文 深圳市同讯精密技术有限公司	
盖章 seal:	盖章 seal:
日期 date	日期 date
备注 Remarks:	

KC.IA.00578

Antenna Specification

1. Application:

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

2.Electrical Specification:

Those specifications were specially defined for customer's model, and all characteristics were measured under the model's handset testing jig .

2-1. Frequency Band:

Frequency Band	MHz
WiFi	2400-2500/5150-5850MHz

2-2. Impedance

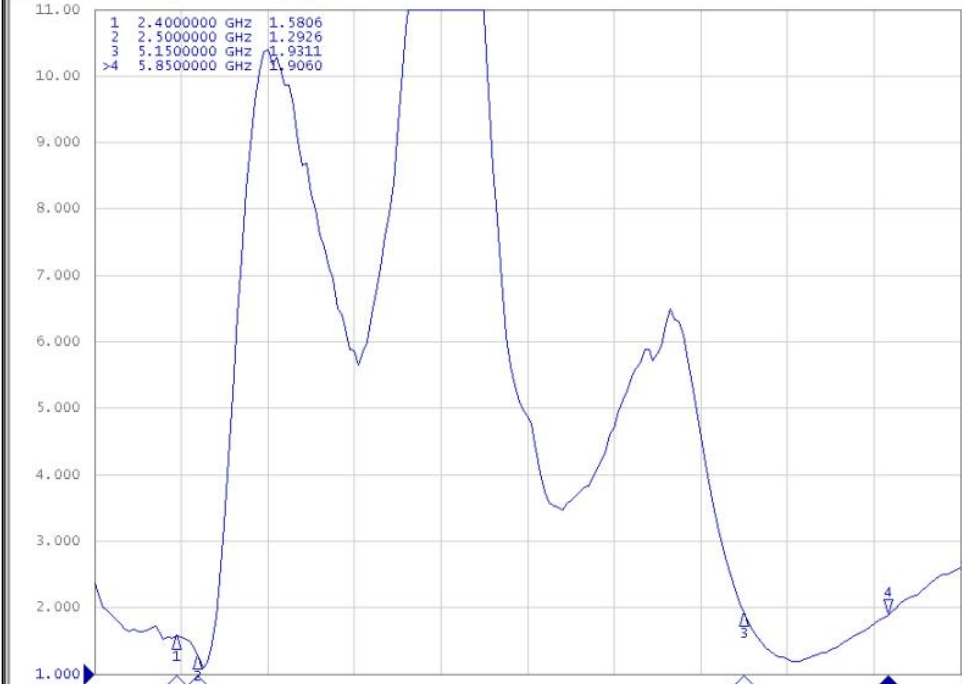
50 ohm nominal

2-3. VSWR

2-3-1.Measurement frequency points and VSWR value

Frequency Band(MHz)	2400	2500	5150	5850
Typical Value: (VSWR)	1.5	1.2	1.9	1.9

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2-3-4 Measuring Method	1. A 50Ω coaxial cable is connected to the 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																
2-3-5 Picture	E5071C Network Analyzer 1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State ▶ Tr1 S11 SWR 1.000/ Ref 1.000 [F1] <table><tr><td>1</td><td>2.400000</td><td>GHZ</td><td>1.5806</td></tr><tr><td>2</td><td>2.500000</td><td>GHZ</td><td>1.2926</td></tr><tr><td>3</td><td>5.150000</td><td>GHZ</td><td>1.9311</td></tr><tr><td>>4</td><td>5.850000</td><td>GHZ</td><td>1.9060</td></tr></table> 1 Start 2 GHz IFBW 70 kHz Stop 6.2 GHz Cor Hold Stop ExtRef Svc 2024-	1	2.400000	GHZ	1.5806	2	2.500000	GHZ	1.2926	3	5.150000	GHZ	1.9311	>4	5.850000	GHZ	1.9060
1	2.400000	GHZ	1.5806														
2	2.500000	GHZ	1.2926														
3	5.150000	GHZ	1.9311														
>4	5.850000	GHZ	1.9060														

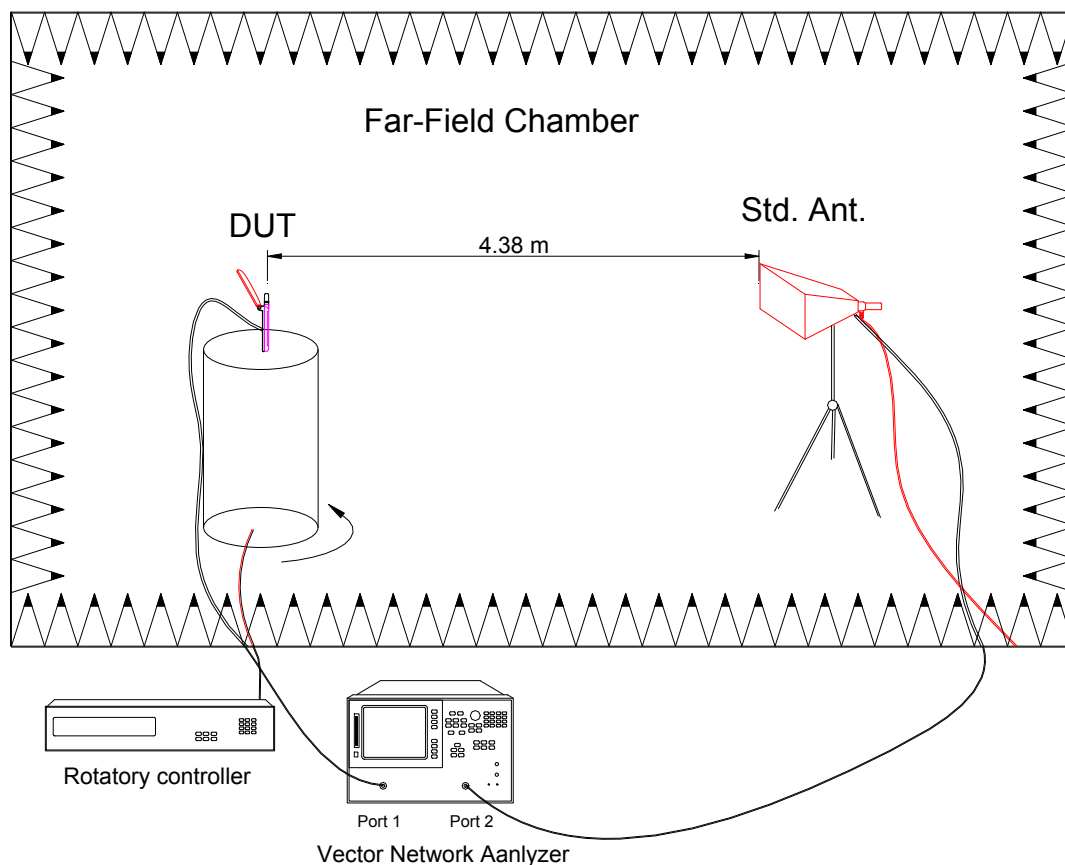
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2-4. Efficiency and Gain

4-5.1 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

4-5.2 Chamber definition



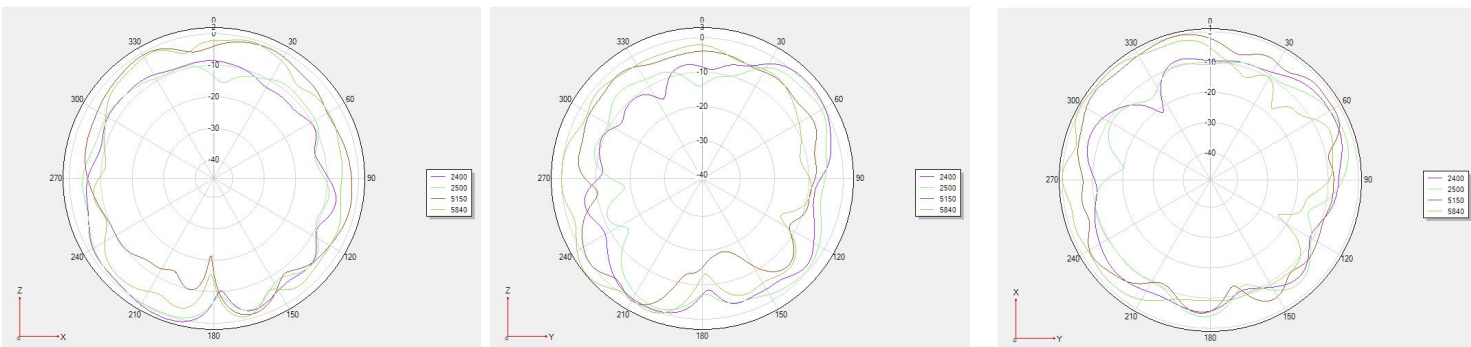
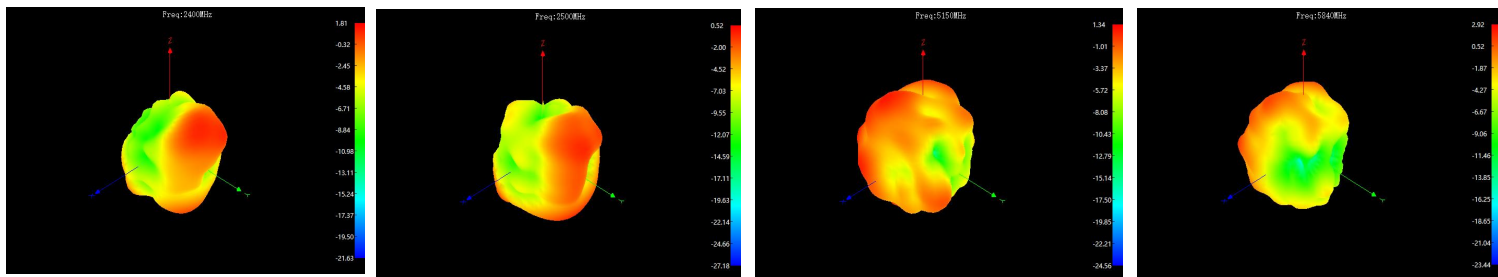
1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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2-4-1 Efficiency and Gain and 3D Date

Frequency/Mhz	MaxGain/dBi	Efficiency / %	Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1. 81	46. 73	5330	2. 23	59. 02
2410	2. 4	42. 9	5360	2. 21	60. 95
2420	1. 56	42. 98	5390	2. 19	59. 29
2430	1. 9	43. 5	5420	2. 16	58. 88
2440	1. 62	44. 46	5450	2. 2	61. 66
2450	1. 05	42. 81	5480	2. 18	57. 94
2460	0. 75	40. 73	5510	2. 16	62. 23
2470	0. 36	41. 99	5540	2. 16	61. 94
2480	0. 91	41. 65	5570	2. 28	59. 29
2490	0. 15	41. 73	5600	2. 28	55. 85
2500	0. 52	43. 67	5630	2. 26	57. 02
			5660	1. 78	55. 34
5150	1. 34	59. 43	5690	1. 83	53. 95
5180	1. 78	62. 09	5720	2. 24	56. 89
5210	1. 94	60. 95	5750	2. 4	56. 1
5240	1. 75	59. 7	5780	2. 68	58. 61
5270	1. 91	57. 15	5810	2. 82	56. 62
5300	1. 96	58. 08	5840	2. 92	60. 12

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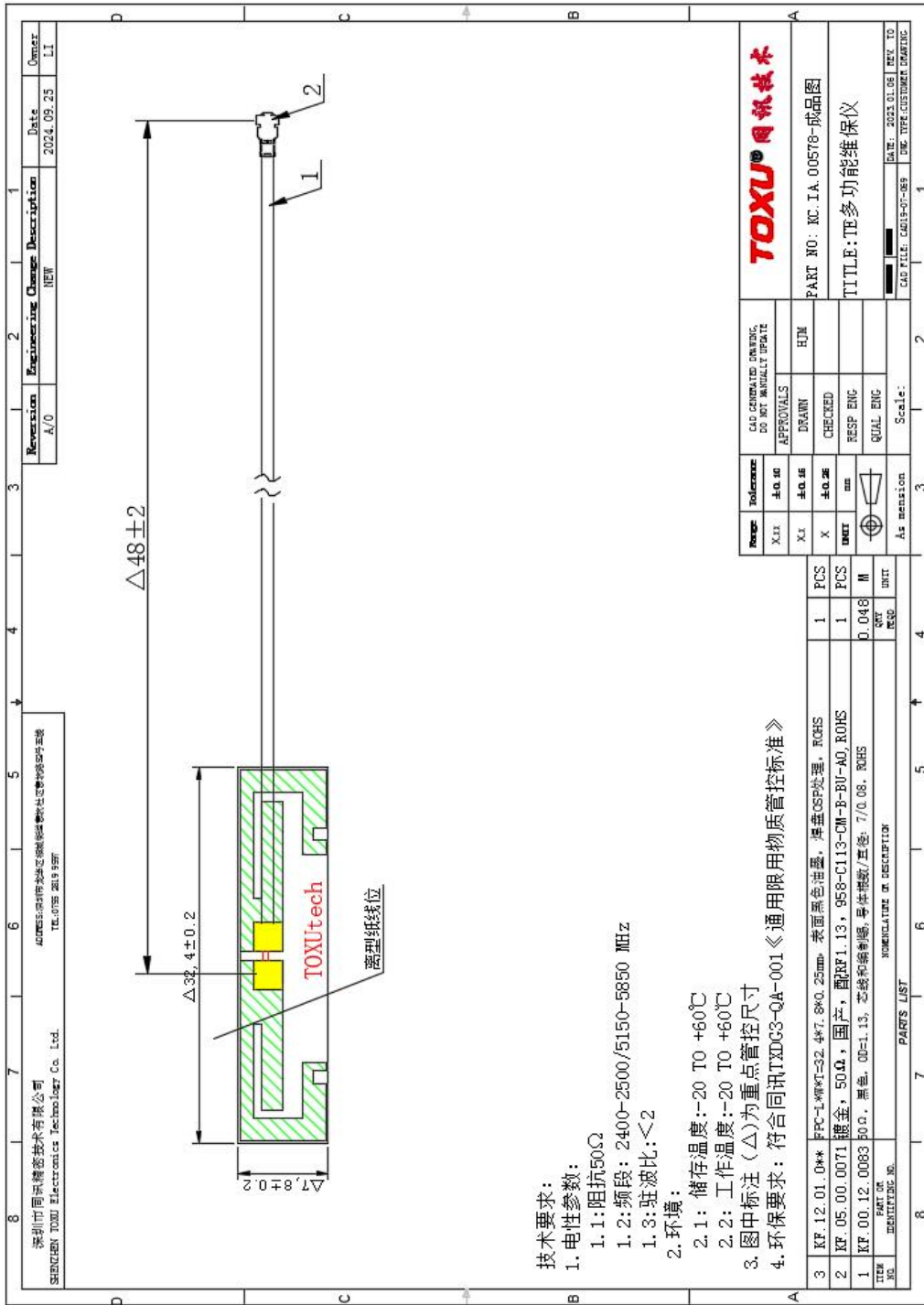


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3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



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4.Packaging specification:

Product number: xxxxx

Product model: xxxxx

一、Label requirements:

Customer	xxx		
supplier	xxxxx		
Material coding	xx		
Product model	xx		
Number	XXX PCS	Factory date	X X X
Remarks			

二、Boxing:

Job description:

1. Inner packaging:

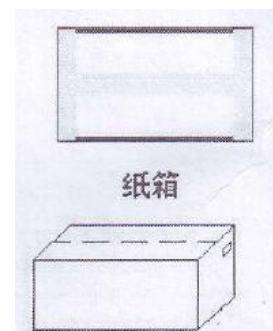
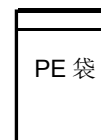
XXpcs A bag

2. External packaging:

Xx PCS ;

3. Matters needing attention:

- Whether to add partition and pearl cotton;
- Label attachments, such as ROHS, etc.;



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