

天线承认书

Parts Approval Sheet

Customer	Koobee	Project	E115
Band	WBG	Color	BLACK
PN	X2854	Version	V1
Customer material number			

DATE: 2024/08/07

R&D			QC
Issued by	Checked by	Confirmed by	Checked by
Wu Haiyuan	Jiang Zefeng	Liang Yi	Cai Zhi
Customer Confirm			

Environmental requirements: ☒ ROHS

☐ REACH

☐ 无

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1.Summary

This report summarizes the electrical results of the our antenna to support the project E115. The test fixture is made for further testing, which is show below:



2.General Description

2.1Antenna Components/Part revisions

The antenna part number is T: A

2.2Definitions

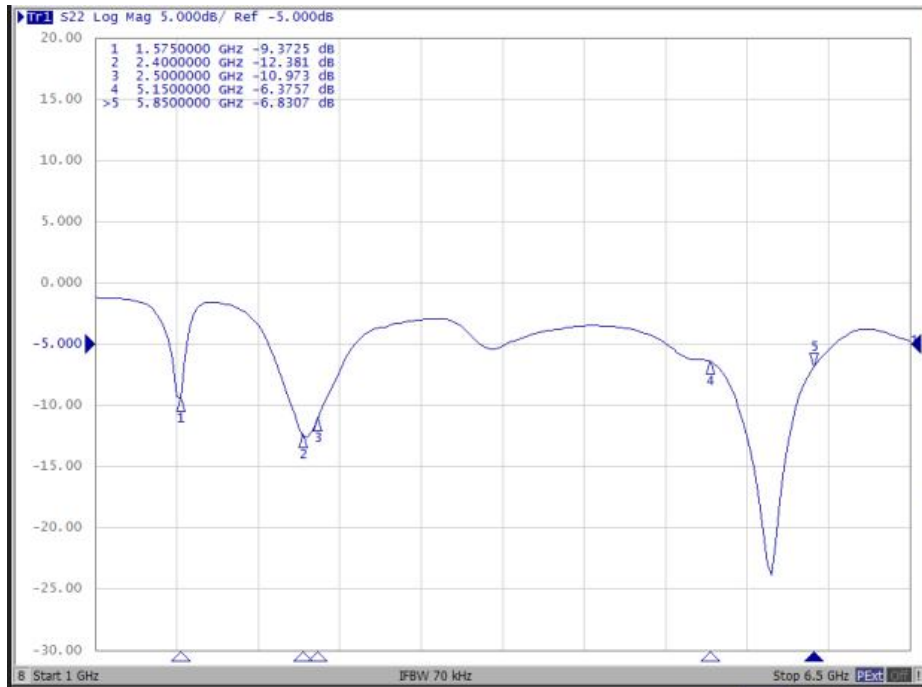
VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

3. Electrical Performance

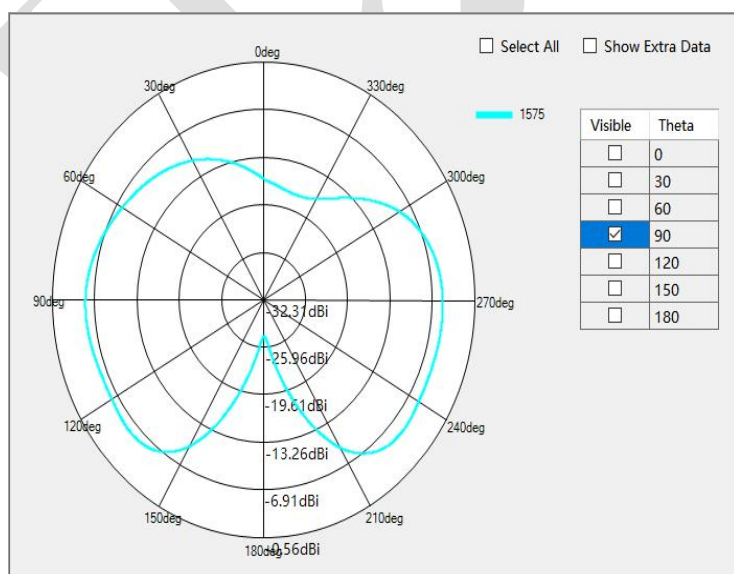
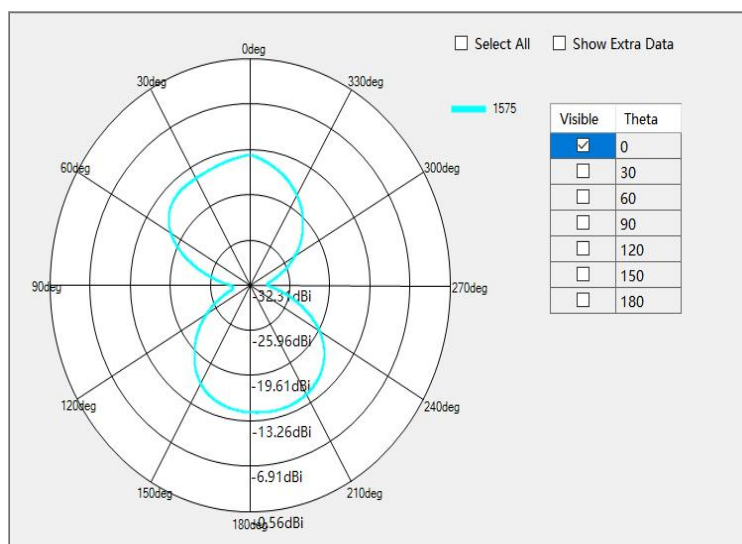
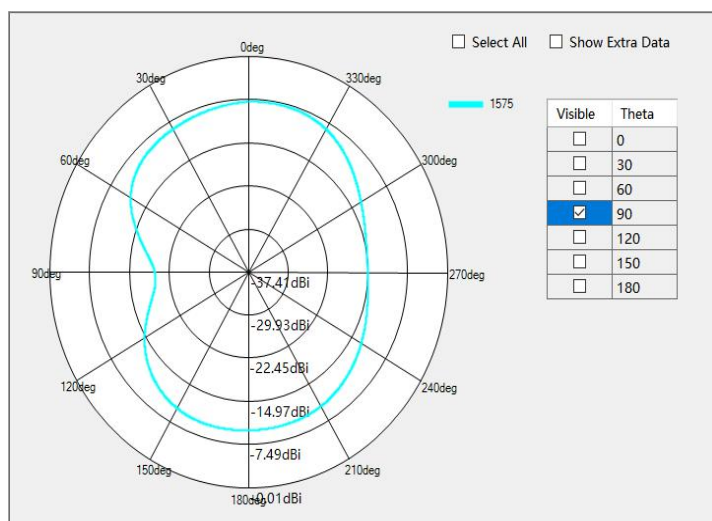
3.1 VSWR (Test in free space)

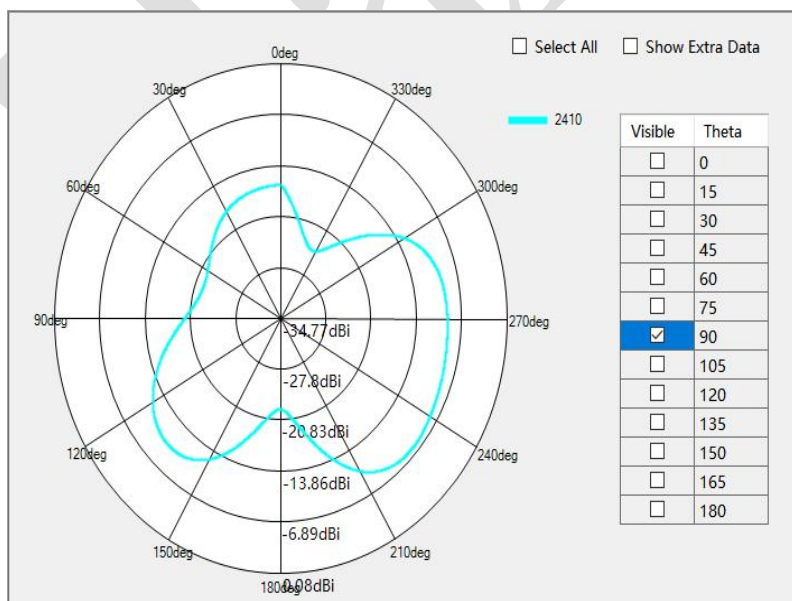
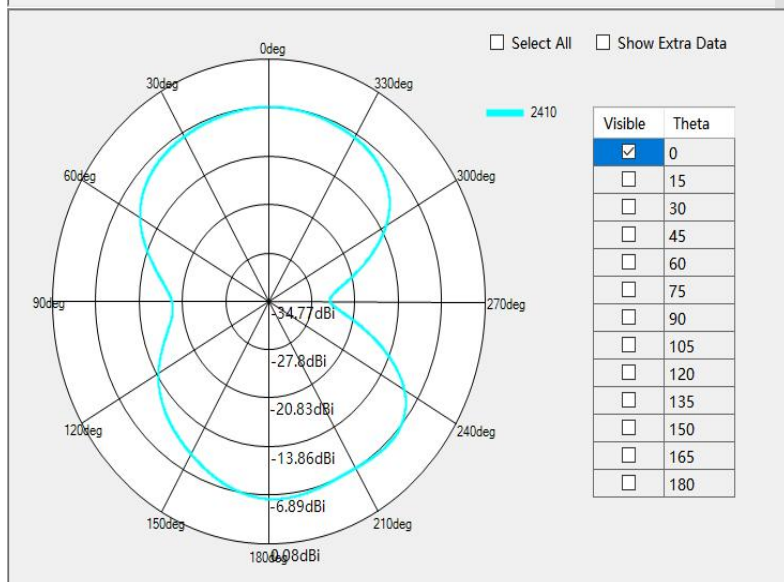
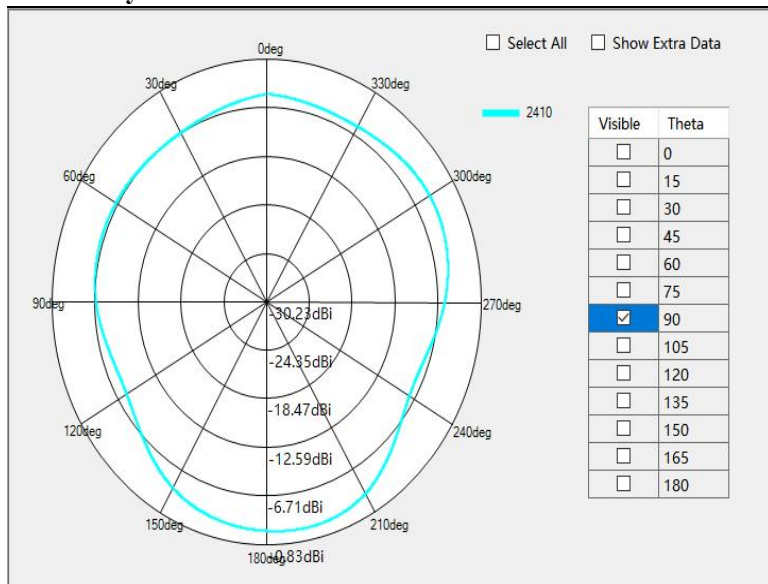


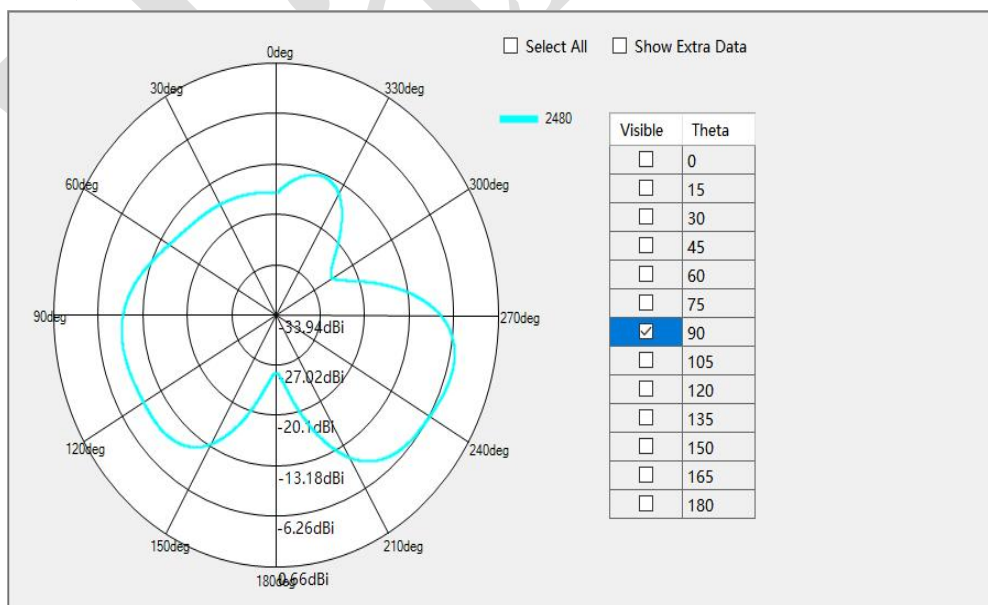
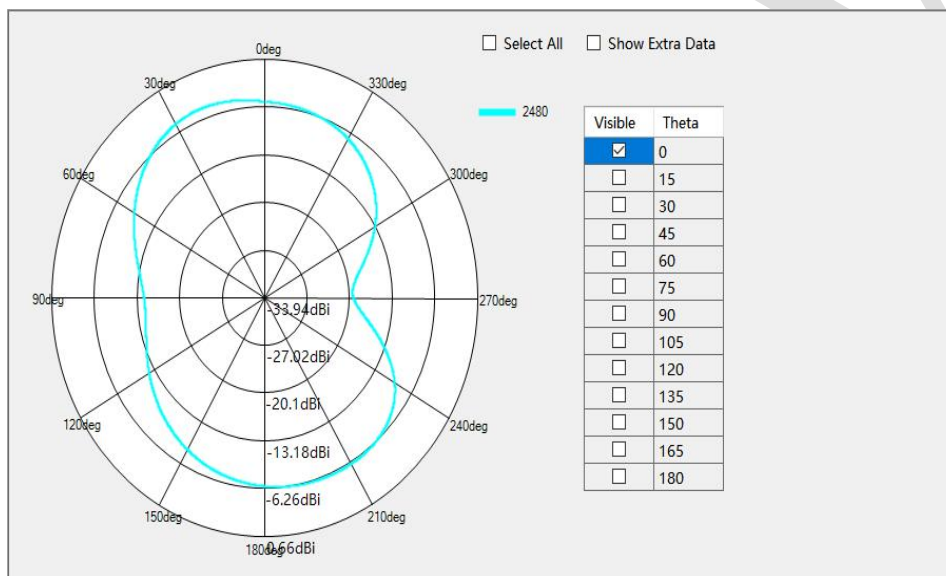
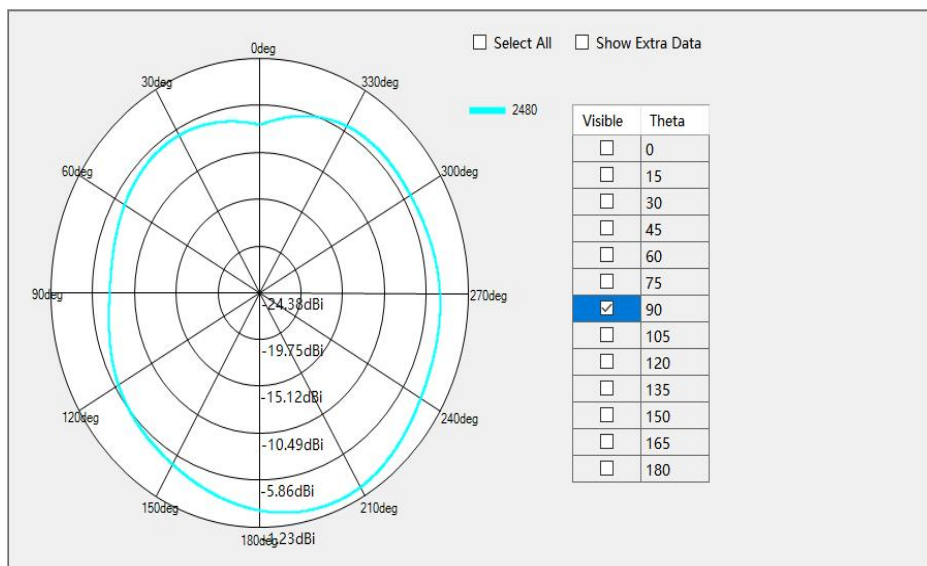
3.2 Gain&Efficiency

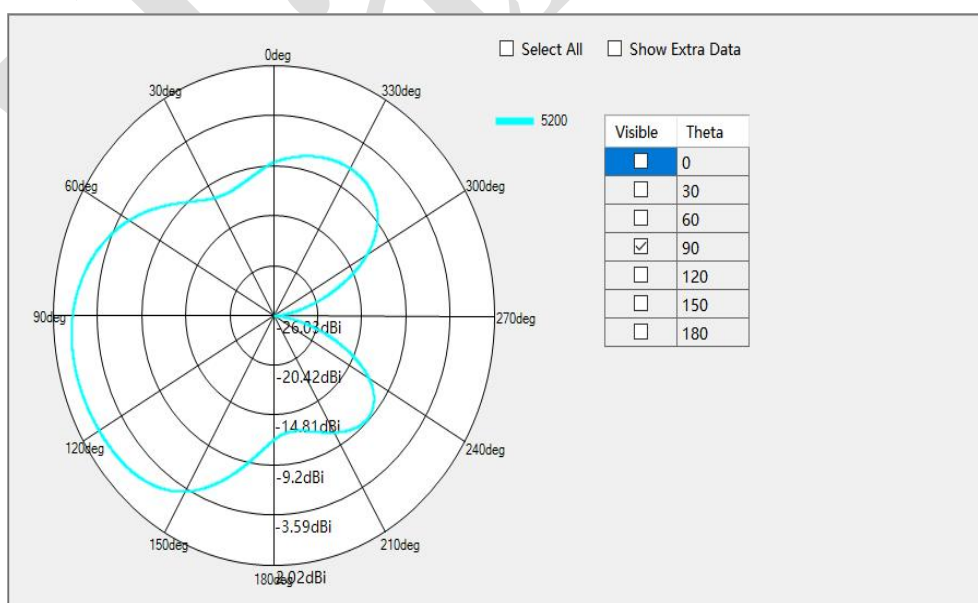
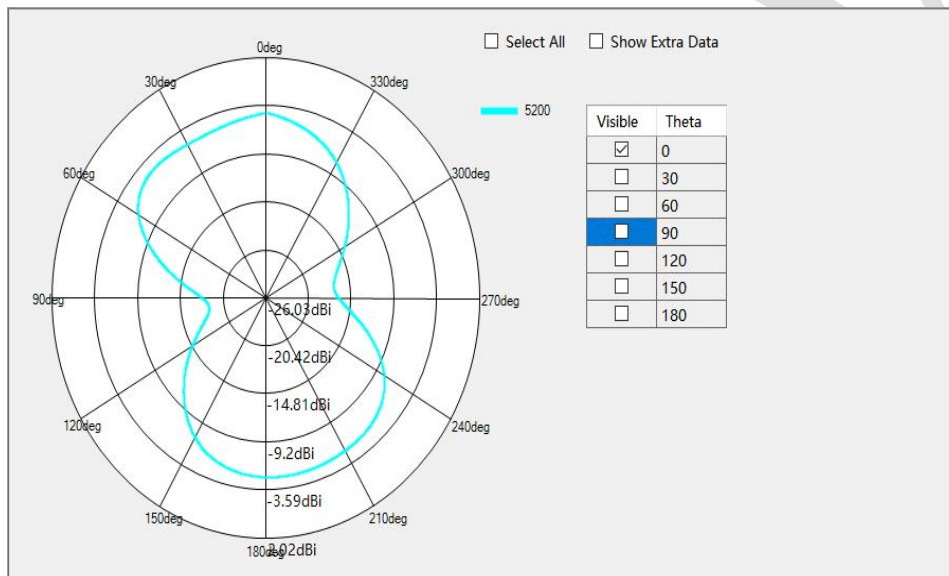
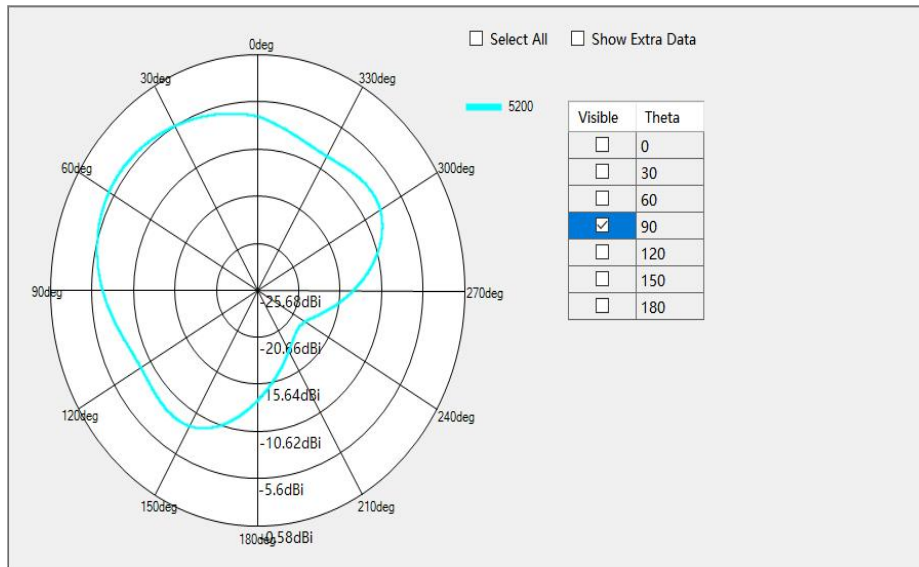
Frequency/MHz	Efficiency/dB	Gain/dBi
1575	-4.55	-0.02
2400	-3.82	1.79
2420	-3.99	1.7
2440	-3.95	1.79
2460	-3.84	1.88
2480	-3.45	2.1
2500	-3.64	1.65
5150	-5.89	-0.47
5200	-5.33	0.24
5250	-4.9	0.79
5300	-4.49	1.21
5350	-4.07	1.56
5400	-3.78	1.83
5450	-3.48	2.05
5500	-3.31	2.12
5550	-3.26	2.12
5600	-3.2	2.09
5650	-3.54	1.65
5700	-3.59	1.5
5750	-4.13	1.11
5800	-4.72	0.92
5850	-5.13	0.65

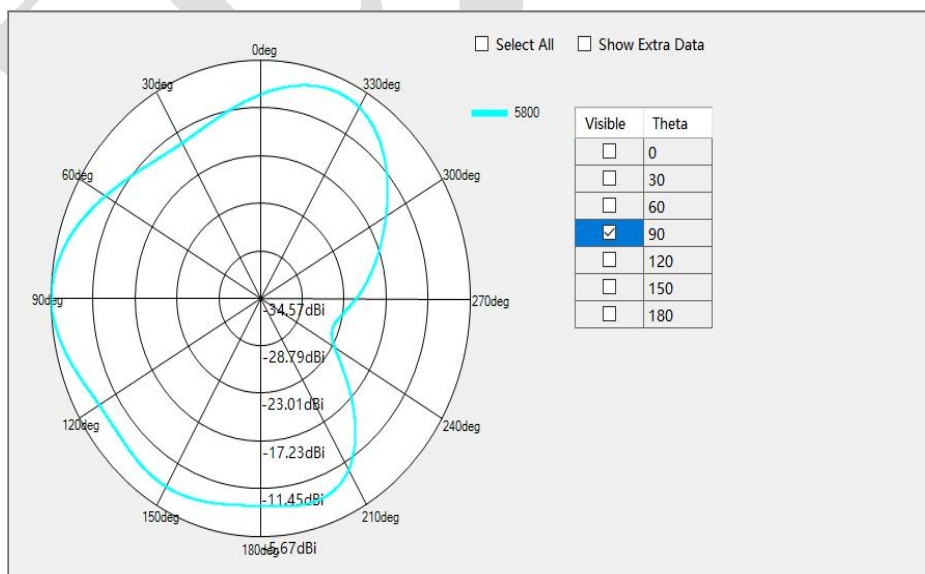
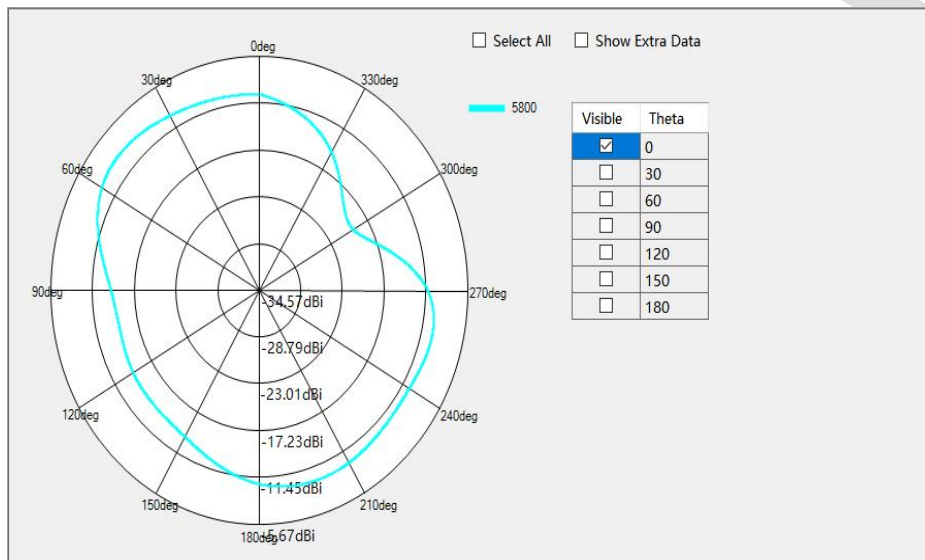
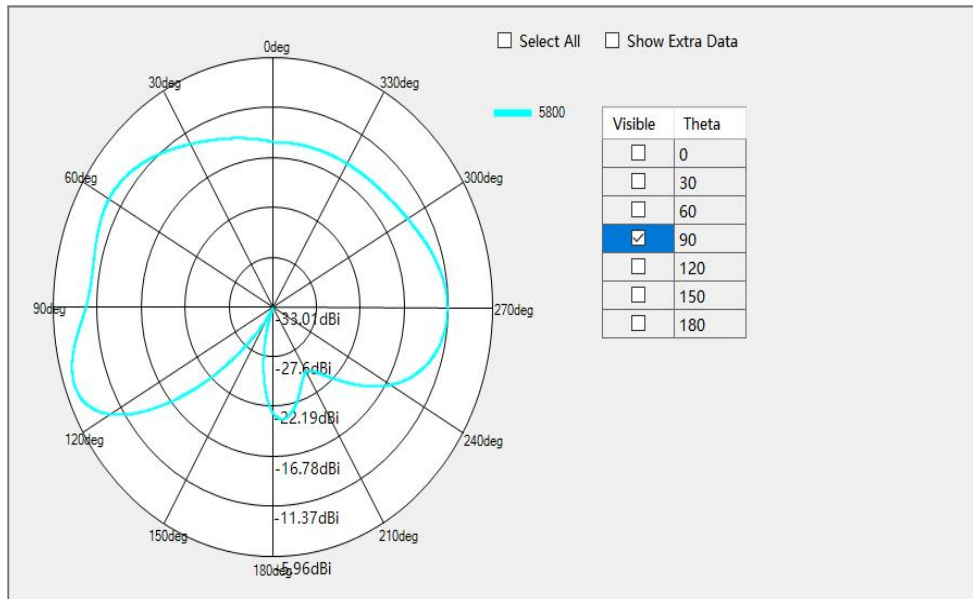
3.3 Antenna gain and 2D or 3D pattern diagram



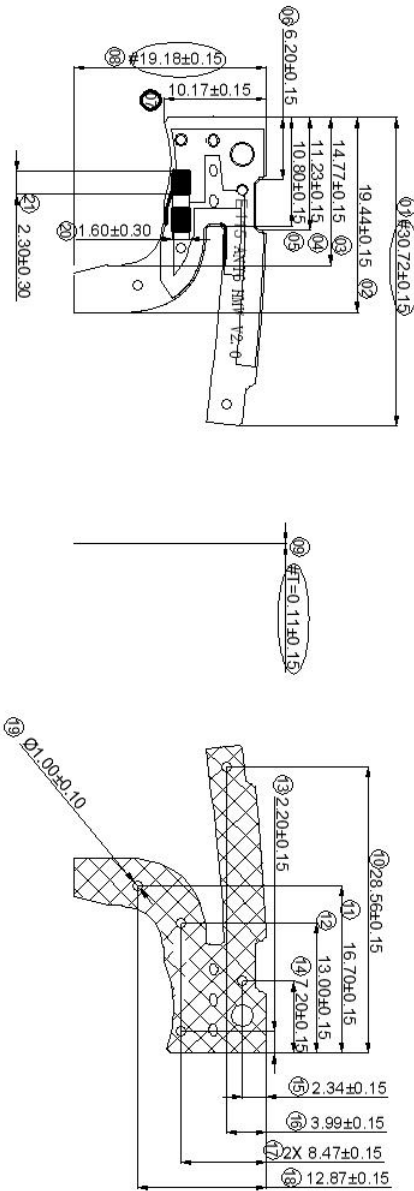








4. Antenna Engineer drawing

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remarks: - The dimensions marked in the figure are key control dimensions, and all trial production or mold samples need to be measured. - The dimensions marked with "*" are mandatory for IQC testing; Unmarked tolerances shall be controlled by referring to the tolerance table within the frame. - The line is less than or equal to 0.3mm and adopts exposure and level open technology. - Golden finger electroplating Ni: 2-7um Au: greater than 0.03um (salt spray must be passed for 48 hours). - The appearance should be smooth and not out to the internal circuit; exposed copper, etc. - The surface of the product should not have any defects such as stains, wrinkles, etc. - The gold-plated area requires a 48 hour salt spray test (excluding OSP process). - All materials must meet RoHS 2.0+Pb requirements. - The packaging method adopts single PCS semi cutting for shipment. - Materials cannot be changed arbitrarily without confirmation from MMW company.																																																																																					
Shenzhen HamyWe Technology Co., Ltd Black cover film, white characters, half to half substrate, gold plating on solder pads, Tesa68905 adhesive backing																																																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">unmarked tolerances standard</th> <th colspan="2">Type of machine</th> <th colspan="2">Product name</th> <th colspan="2">Date</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>±0.5</td> <td>○</td> <td>0.1</td> <td colspan="2">12834-E118</td> <td colspan="2">ANT6-FPC</td> <td colspan="2">2024.08.07</td> </tr> <tr> <td>XX</td> <td>±0.20</td> <td>⊙</td> <td>0.05</td> <td colspan="2">12834-E115-AHT6-400</td> <td colspan="2">K D</td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td colspan="2">material</td> <td colspan="2">PI+Cu</td> <td colspan="2">Special Process</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td colspan="2">pages in total</td> <td colspan="2">page 1</td> <td colspan="2">Auditor</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td colspan="2">First perspective</td> <td colspan="2">unit</td> <td colspan="2">mm</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td colspan="2">scale</td> <td colspan="2">1:1</td> <td colspan="2">F4 edition</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td colspan="2">V01</td> <td colspan="2"></td> <td colspan="2"></td> </tr> </tbody> </table>						unmarked tolerances standard				Type of machine		Product name		Date		XXX	±0.5	○	0.1	12834-E118		ANT6-FPC		2024.08.07		XX	±0.20	⊙	0.05	12834-E115-AHT6-400		K D								material		PI+Cu		Special Process						pages in total		page 1		Auditor						First perspective		unit		mm						scale		1:1		F4 edition						V01					
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