 禾苗集团	Shenzhen Hemiao Communication Technology Co. LTD	DCC#:
	Sample acceptance for material classification	Date of issue :

天线 - 承认书 Check List

一. 厂商应填写基本数据/The manufacturer should fill in the basic data:

料号/Material number :	15.01.1899	承认书版本/Version of admission:	V1.0
项目名称/Project name:	E6546 PRO	合作厂商/co-producer:	可信华成/Kexin Huacheng
零件名称/Part name:	三合一天线/Three-in-one antenna		

二. 厂商应填写产品数据/The manufacturer shall fill in the product data:

1. 天线类型/Antenna type:

- a. 拉杆/Tie rod Material type and specification_____
- b. 金属冲压/Metal stamping Material type and specification_____ Shrapnel gold thickness: _____
- c. FPC Type and specification of substrate: Electrolytic copper(PI substrate12.5um , Copper foil single panel18.0um)
 Gold finger gold thickness: 0.03um Nickel thickness: 2-6um
 FPC Adhesive backing material (specify 3M9471LE, Please make remarks for special purposes) _____

三. 厂商应在承认书附下面相关文件; 文件电子档(pdf)发邮件到禾苗。/The manufacturer shall attach the following documents to the acknowledgement; Email the electronic file (pdf) to Gramineae.

- ◆ 1. Standard 2D drawings and full (key) dimensional measurement report ◆ 2. Material certificate ◆ 3. Packing method
- ◆ 4. Antenna performance test report (For example TRP, TIS, SAR, Data such as frequency and phase errors)
- ◆ 5. Reliability test report ◆ 6 ROHS statement

四. 确认栏/Confirmation bar

供应商签核并盖公司章/Supplier's signature and company seal		禾苗签核并盖受控章/Sign and seal the controlled stamp	
业务/Business affairs	李静	客户经理/Account manager	
		硬件测试/Hardware test	
研发/Research and development	肖坤雄, 周清笑	结构工程/Structural engineering	
		DQE	
品质/quality	岳仲勋	项目经理/Project manager	

五. 变更记录栏/Change record field

编制/变更日期 Establishment/change date	变更理由/Reason for change	变更内容/Change content	版本/version

说明/Description: 1、 Sample acknowledgement in five copies, a total of 5-10 samples;

2、 Supplier must receive both sides signed and HemiaoDCC controlled release of sample acknowledgement before bulk delivery;

3、 The goods delivered by the supplier in bulk must conform to the sample and the letter of acknowledgement. If there is any problem, please communicate and confirm in advance. Otherwise, it will be rejected

4、 All quality standards shall be based on the quality requirements of the seedlings. If there are special defects (unable to meet the quality standards), the supplier shall specifically mark the adverse phenomenon when admitting the sample and state it in the content of the admission letter.



Product acknowledgement

Material name: 3-in-1 antenna

KH coding: 2FPC511545007-R1

Sample color: Black

Sample type: FPC

Applicable model: E6546 PRO

Customer material number: 15.01.1899

Standard sample Limit sample _____

Supplier name: Shenzhen Kexinhuacheng Technology Co., LTD

Fabricate	Structure	Project	Quality	Sales	R&d engineer	Sample delivery date
张文秀	肖坤雄	廖文辉	岳仲勋	孙会生	周清笑	2023-3-1

Name of client: Shenzhen Hemiao Communication Technology Co. LTD

Department	Confirm	Date	State	Sign and seal
Structure:				
Test:				
Project:				

Version number: V1.0

Modification description: _____

Alternate version: _____

Antenna specification		DATE	2023-3-1	REV.	A/0
MODEL	E6546 3-in-1 antenna	File number	QR-081	PAGE	2 / 8

Directory

DIRECTORY 2

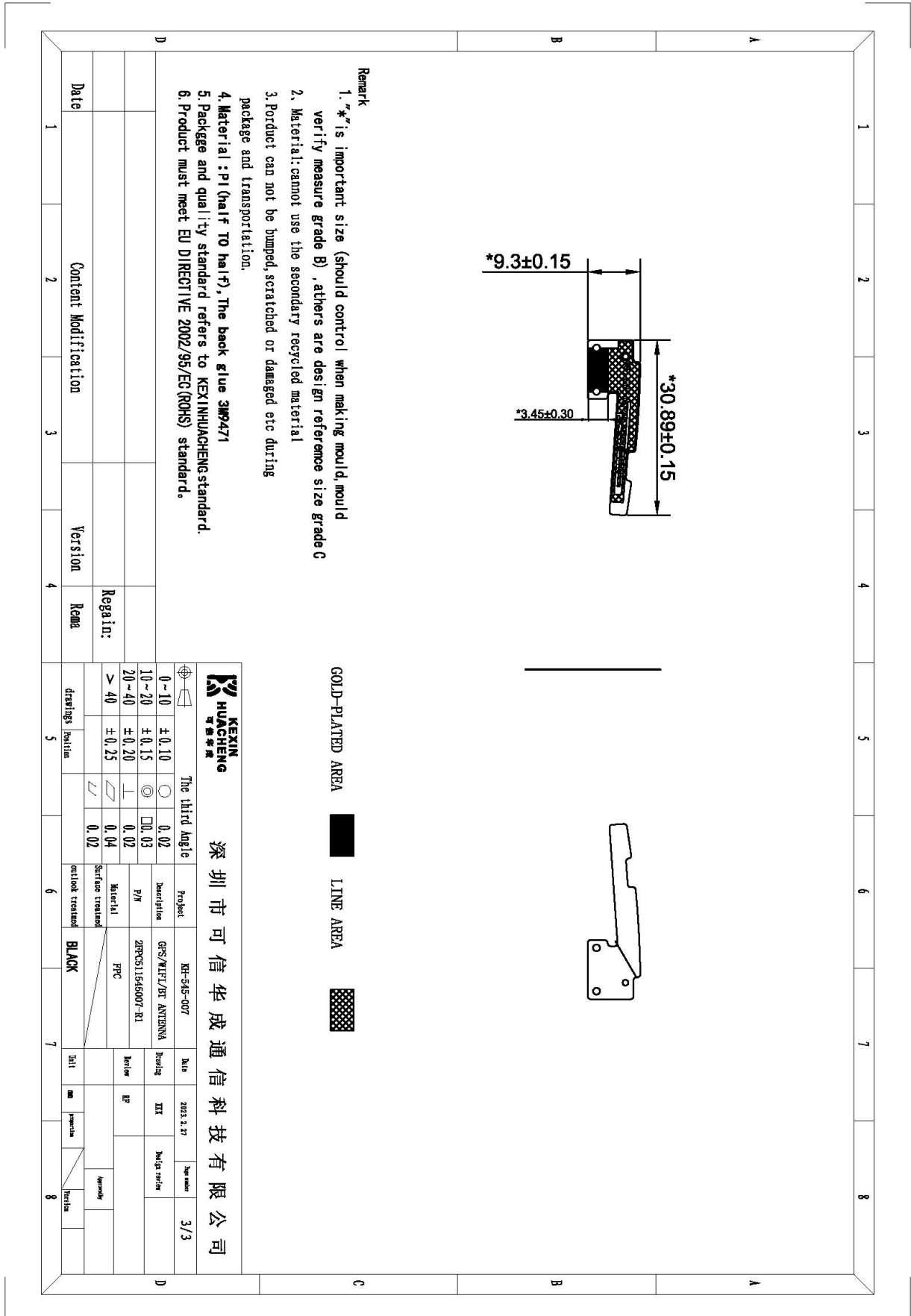
1. 结构图纸 /STRUCTURAL DRAWING 3

2.包装方式/PACKING METHOD 4

3.性能报告/PERFORMANCE REPORT 5

Antenna specification		DATE	2023-3-1	REV.	A/0
MODEL	E6546 3-in-1 antenna	File number	QR-081	PAGE	3 / 8

1. 结构图纸 /Structural drawing



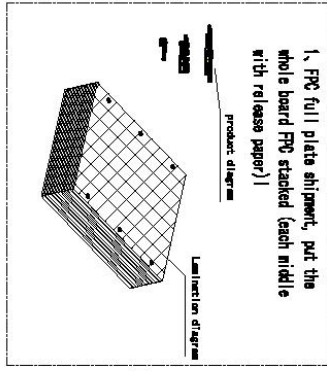
Antenna specification	DATE	2023-3-1	REV.	A/0
MODEL E6546 3-in-1 antenna	File number	QR-081	PAGE	4 / 8

2.包装方式/Packing method

Notes:

1. Handle the product gently when packing to avoid scratching.
2. After the whole plate is packed, check whether there is any slitting or break in the correct direction.
3. If there are any loose that are not filled, fill them with buffer material.
4. After the packing is complete, check whether the labels are attached properly.
5. The shipment inspection report should be attached to the box.

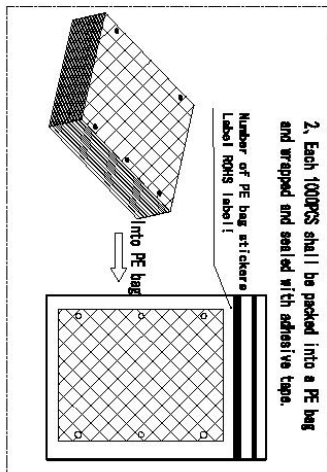
1. FPC full plate shipment, put the whole board FPC stacked (each middle with release paper) with release diagram



Lamination diagram

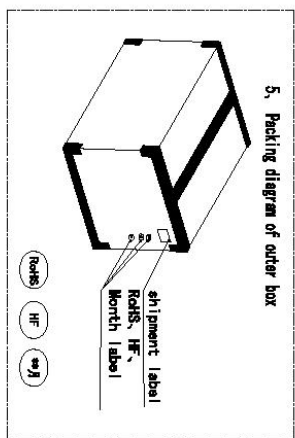
2. Each 100PCS shall be packed into a PE bag and wrapped and sealed with adhesive tape.

Number of PE bag stickers Label 80918 Label!



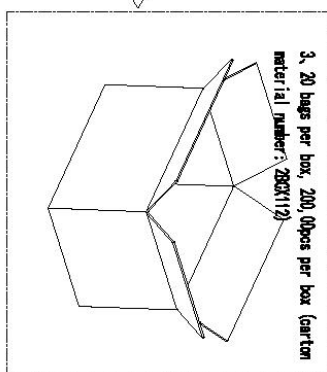
Into PE bag

5. Packing diagram of outer box

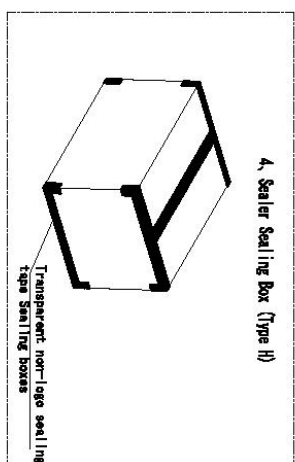


shipment label
RoHS, HF, WJ North label

3. 20 bags per box, 200, Oppose per box (carton material number: 282X112)



4. Sealer Sealing Box (Type H)



Transparent non-ledge sealing tape Sealing boxes

RoHS
HF

shipment label illustration

客户名称:	深圳市可信华成通信科技有限公司
订单号:	7-25
客户地址:	
联系人:	李主:
联系电话:	
邮箱:	

深圳市可信华成通信科技有限公司

The third angle		Project	
0~10	±0.10	0.02	
10~20	±0.15	0.03	
20~40	±0.20	0.02	
> 40	±0.25	0.04	

Material	Material	Material
FRPC	FRPC	FRPC
62102548007-21	62102548007-21	62102548007-21

Antenna specification		DATE	2023-3-1	REV.	A/0
MODEL	E6546 3-in-1 antenna	File number	QR-081	PAGE	5 / 8

3.性能报告/Performance report

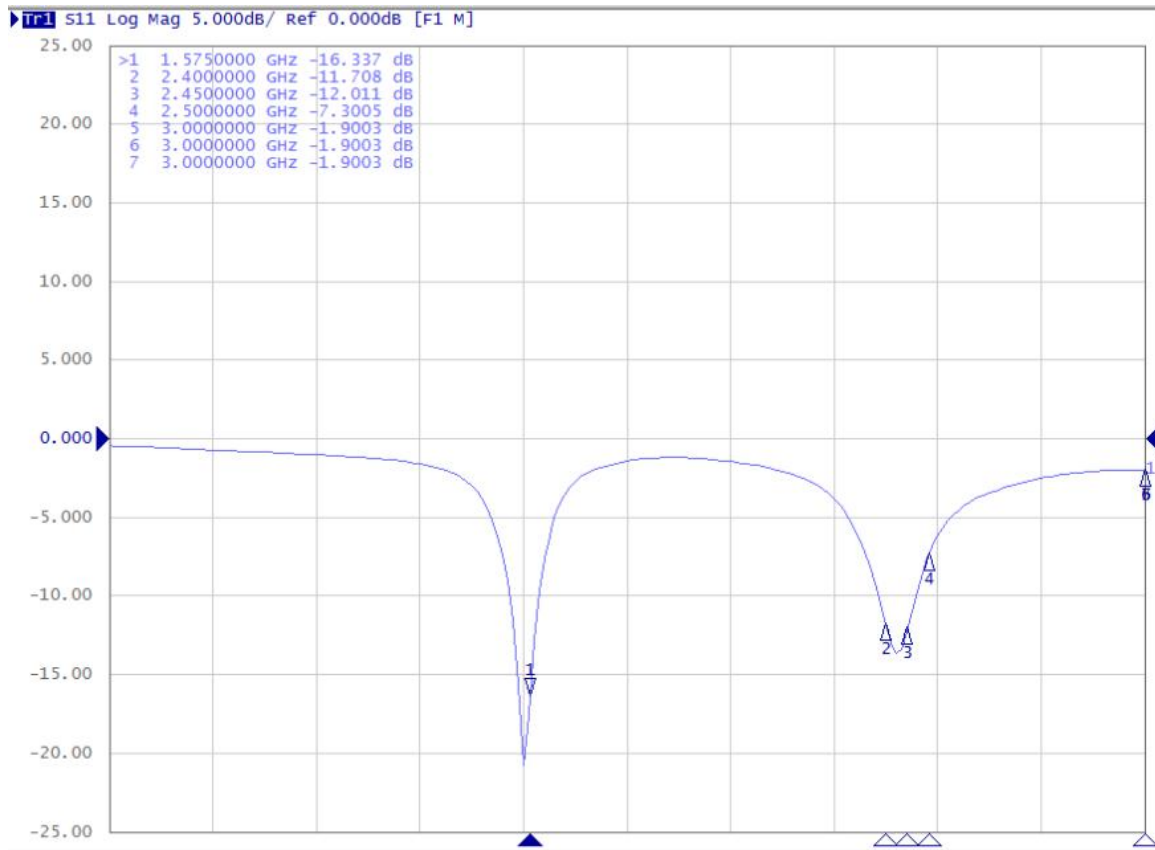
无源数据/Passive data

frequency 频率 (MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
1525	-0.28	-5.95	25.39
1530	-0.16	-5.67	27.08
1535	0.16	-5.42	28.73
1540	0.54	-5.03	31.42
1545	0.61	-4.87	32.58
1550	0.84	-4.67	34.15
1555	0.83	-4.54	35.12
1560	0.95	-4.4	36.32
1565	1.04	-4.28	37.31
1570	1.07	-4.25	37.57
1575	1.18	-4.31	37.07
1580	1.17	-4.42	36.1
1585	0.98	-4.54	35.18
1590	1.31	-4.54	35.13
1595	1.09	-4.77	33.35
1600	0.98	-4.94	32.06
1605	0.88	-5.21	30.15
1610	0.36	-5.52	28.06
1615	0.26	-5.75	26.61
1620	-0.27	-6.08	24.65

2400	0.91	-4.77	33.34
2410	1.1	-4.63	34.45
2420	1.2	-4.77	33.31
2430	1.19	-5	31.61
2440	1.15	-4.8	33.08
2450	0.95	-4.78	33.3
2460	0.67	-5.05	31.24
2470	0.49	-5.31	29.45
2480	0.61	-5.58	27.69
2490	1.95	-5.95	25.4
2500	1.82	-6.18	24.09

Antenna specification		DATE	2023-3-1	REV.	A/0
MODEL	E6546 3-in-1 antenna	File number	QR-081	PAGE	6 / 8

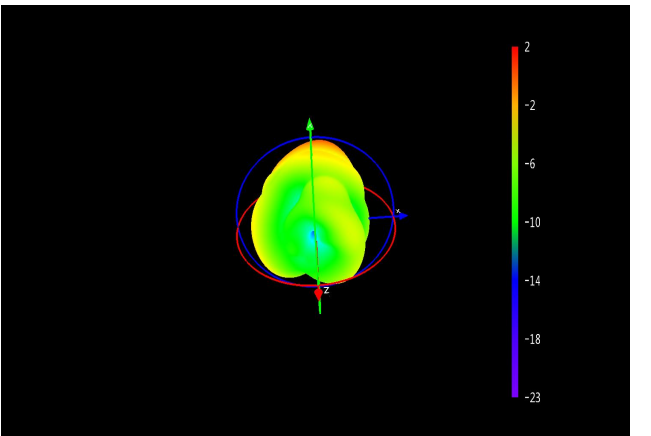
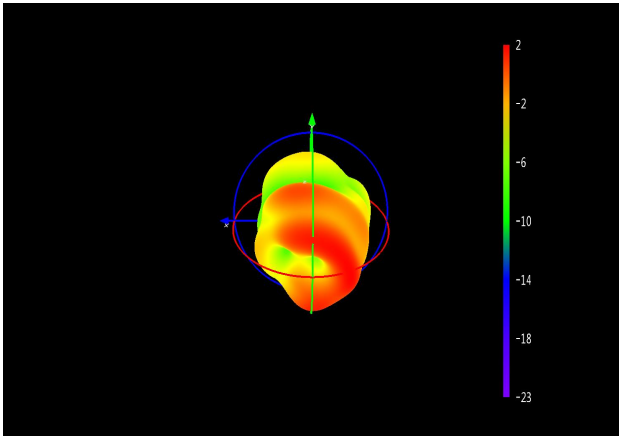
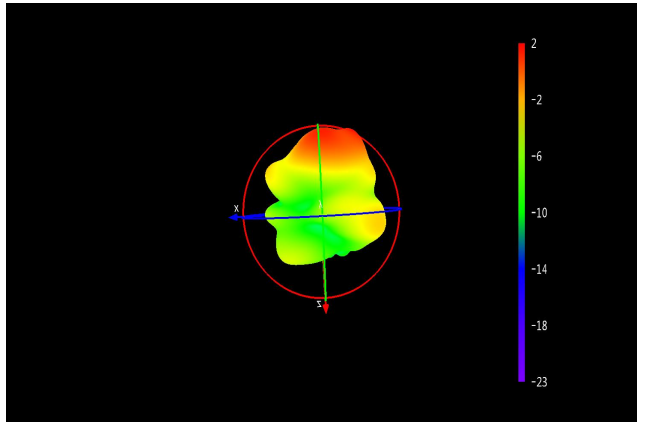
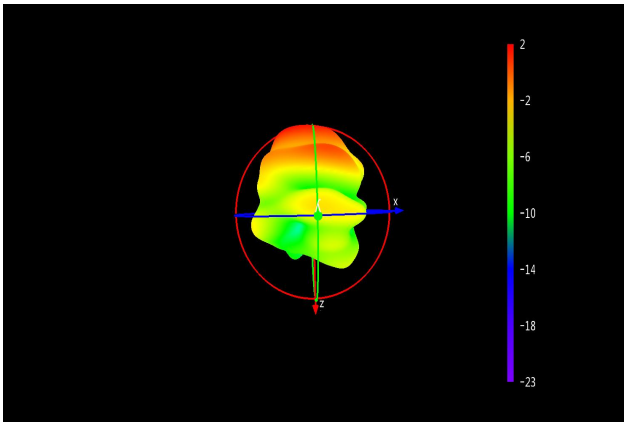
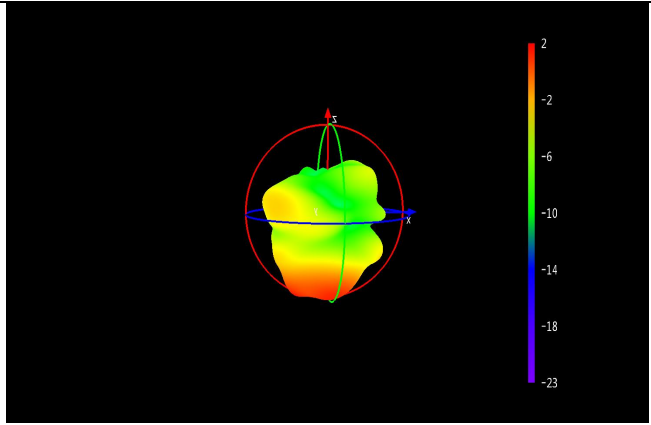
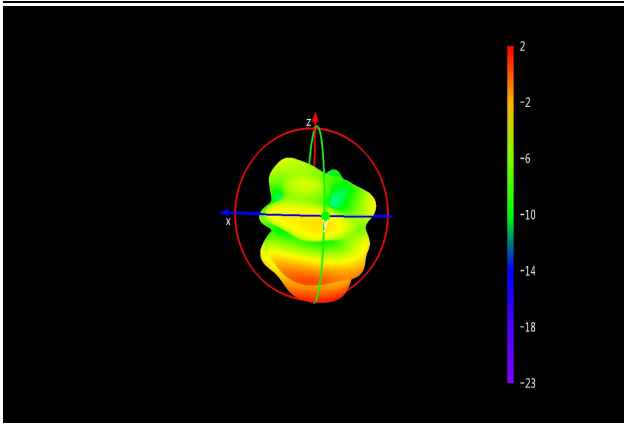
S11



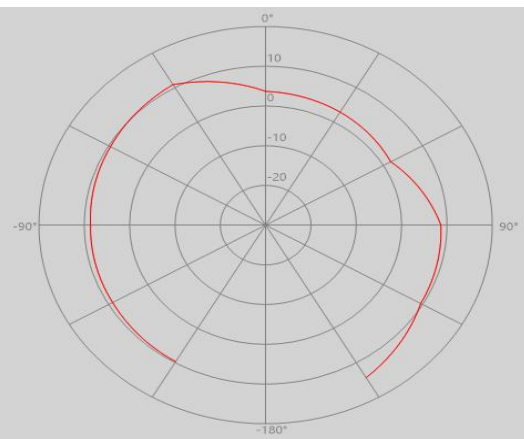
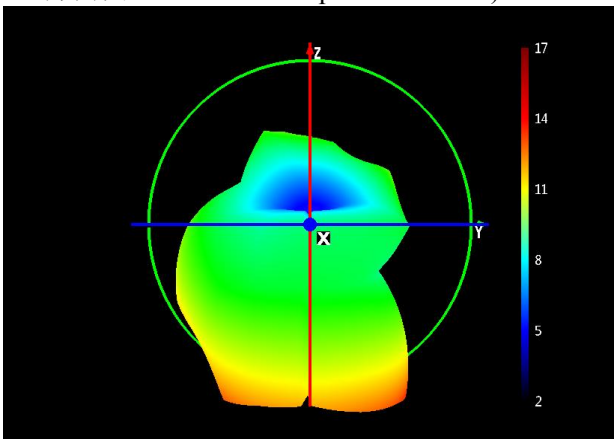
Operator	Band	CH	MP Conducted		Antenna EFF FS		FS OTA			FS Space SPEC	
			POWER	Sensitivity	TRP	TIS	TRP	TIS 亮屏	TIS 灭屏	TRP	TIS
WIFI	2.4GWIFI 11b(11M)	L	17.4	-87	-4.7	-4.7	11.2	-79.51	-83.19	12.5	-84
		M	17.8	-87.3			14.5	-82.9	-84.23		
		H	18.2	-87.6			12.2	-81.9	-82.55		
	2.4GWIFI 11g(54M)	L	16.8	-74.8	-4.7	-4.7	12.6	-67.12	-70.48	11	-70
		M	17.2	-75.2			14.5	-70.3	-71.23		
		H	17.5	-75.5			13.5	-68.8	-70.05		
	2.4GWIFI 11n(65M)	L	13.2	-73.5	-4.7	-4.7	12.7	搜不到WiFi		8	-68
		M	13.6	-72.4			14.1				
		H	13.8	-72.6			13.6				
YGPS	L1		/	/	/	-4.3	/	-145.3	/	-145	

3D 方向图/3D direction map (2.4G):

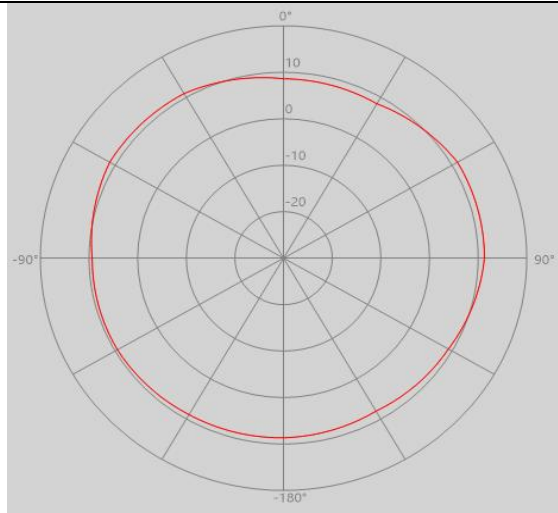
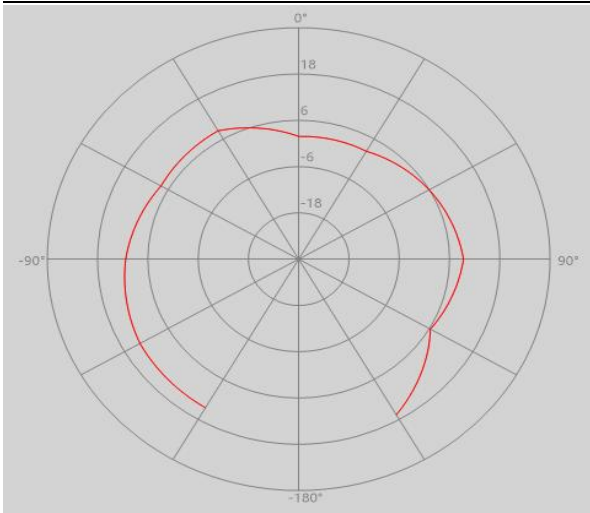
Antenna specification		DATE	2023-3-1	REV.	A/0
MODEL	E6546 3-in-1 antenna	File number	QR-081	PAGE	7 / 8



3D 方向图/3D direction map (2.4GWIFI):



Antenna specification		DATE	2023-3-1	REV.	A/0
MODEL	E6546 3-in-1 antenna	File number	QR-081	PAGE	8 / 8



3D 方向图/3D direction map (BT):

