



目录（List）

- ◆ 概要（**Summary**）
- ◆ 项目信息（**Project information**）
- ◆ 测试设备（**Test Equipment**）
- ◆ 机台图片（**Machine image**）
- ◆ 实际测试图片（**test photo**）
- ◆ 主板匹配电路（**Main board matching circuit**）
- ◆ 天线位置（**ANT Location**）
- ◆ 回波损耗与电压驻波比 **Return Loss& VSWR**
- ◆ 辐射方向图（**Radiation pattern**）
- ◆ 无源效率、增益（**Passive efficiency and gain**）
- ◆ 环境处理（**Environmental treatment**）
- ◆ 总结（**Summarize**）



特高传感科技（深圳）有限公司

TeGao Sensing Technology (shenzhen) Co.,LTD

◆ 项目信息（Project information）

客户名CUSTOMER NAME:	识刻创新 OPENSoul INNOVATION INC.
项目名PRODUCT NAME:	AI DOCK
研发（R&D）：	唐师荣SHI RONG TANG
日期DATE:	2026/09/20

Tegao Sensing Technology (Shenzhen) Co., Ltd.
Room 605, Building A, Zhiyun Industrial Park, No.13 Huaxing
Road, Dalang Sub district, Longhua District, Shenzhen,
Guangdong Province, P.R.China



特高传感科技（深圳）有限公司

TeGao Sensing Technology (shenzhen) Co.,LTD

一. 测试设备（Test Equipment）

1. 有源测试：支持2.3.4. 5G制式多模式测量 NB-IoT, eMTC, CAT- 1, Bluetooth1-5 , WIFI802.11 abgn, 可测TRP TIS

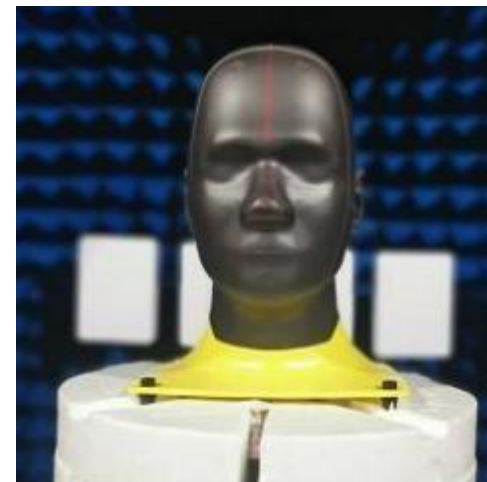
Active Test: Supports multi-mode measurement for 2G/3G/4G/5G standards, NB-IoT, eMTC, CAT-1, Bluetooth 1-5, and Wi-Fi 802.11 abgn. TRP and TIS can be measured.

2. 无源测试：可测试增益，效率

Passive Test: Can measure gain and efficiency.

3. TWS耳机测试头模 全套人头手

TWS earphone test phantom, full head and hand phantom set.





特高传感科技（深圳）有限公司

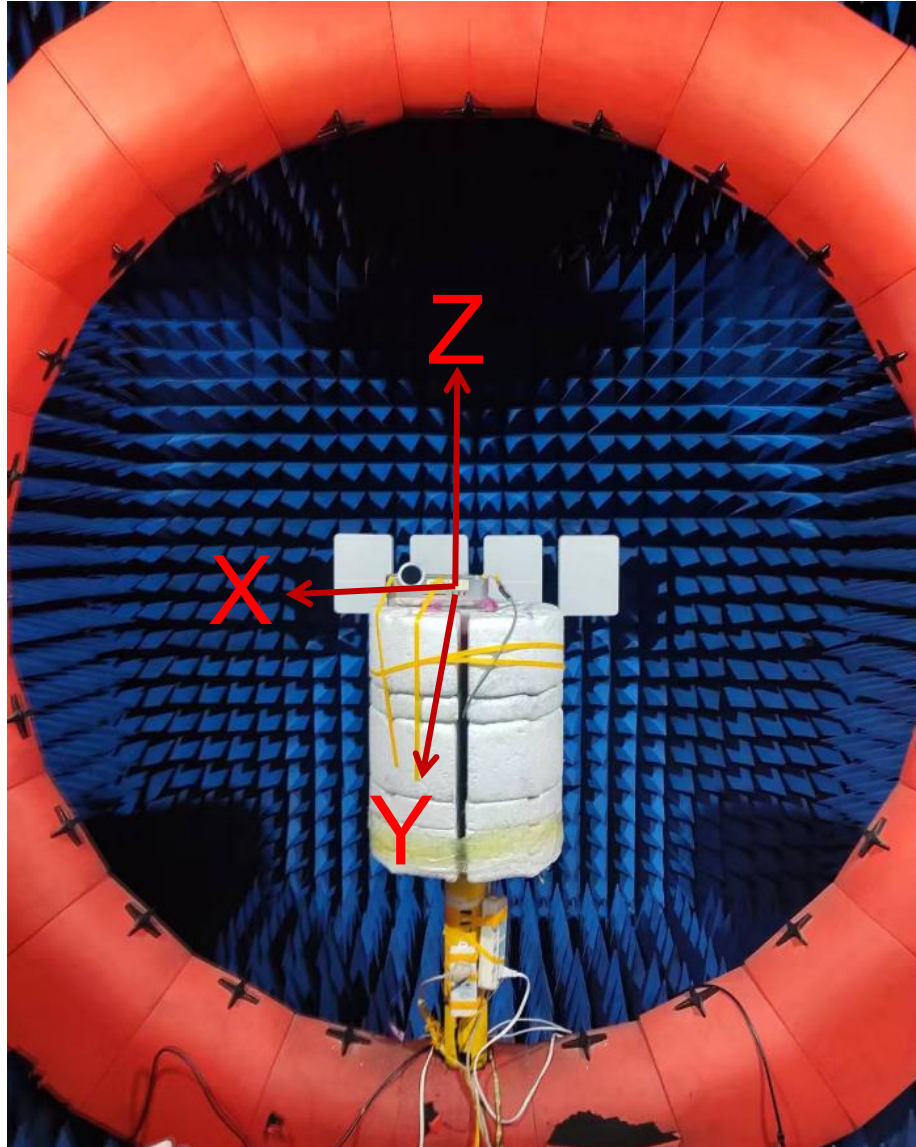
TeGao Sensing Technology (shenzhen) Co.,LTD

二.机台图片 Machine image





三 实际测试图片（test photo）





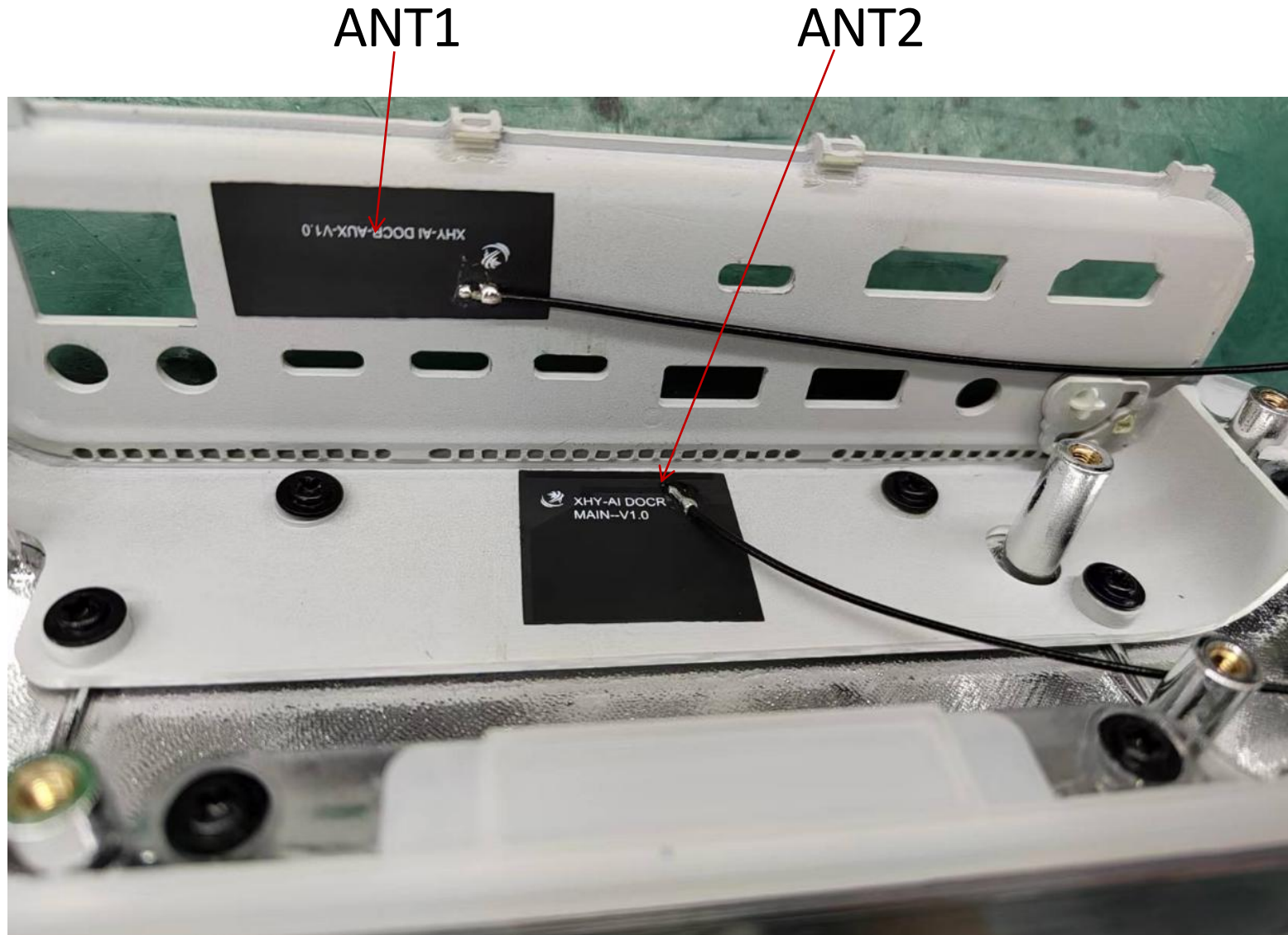
四 主板匹配电路（**Main board matching circuit**）

匹配为主板原有匹配未做更改

Matching is based on the original motherboard configuration;
no modifications have been made.



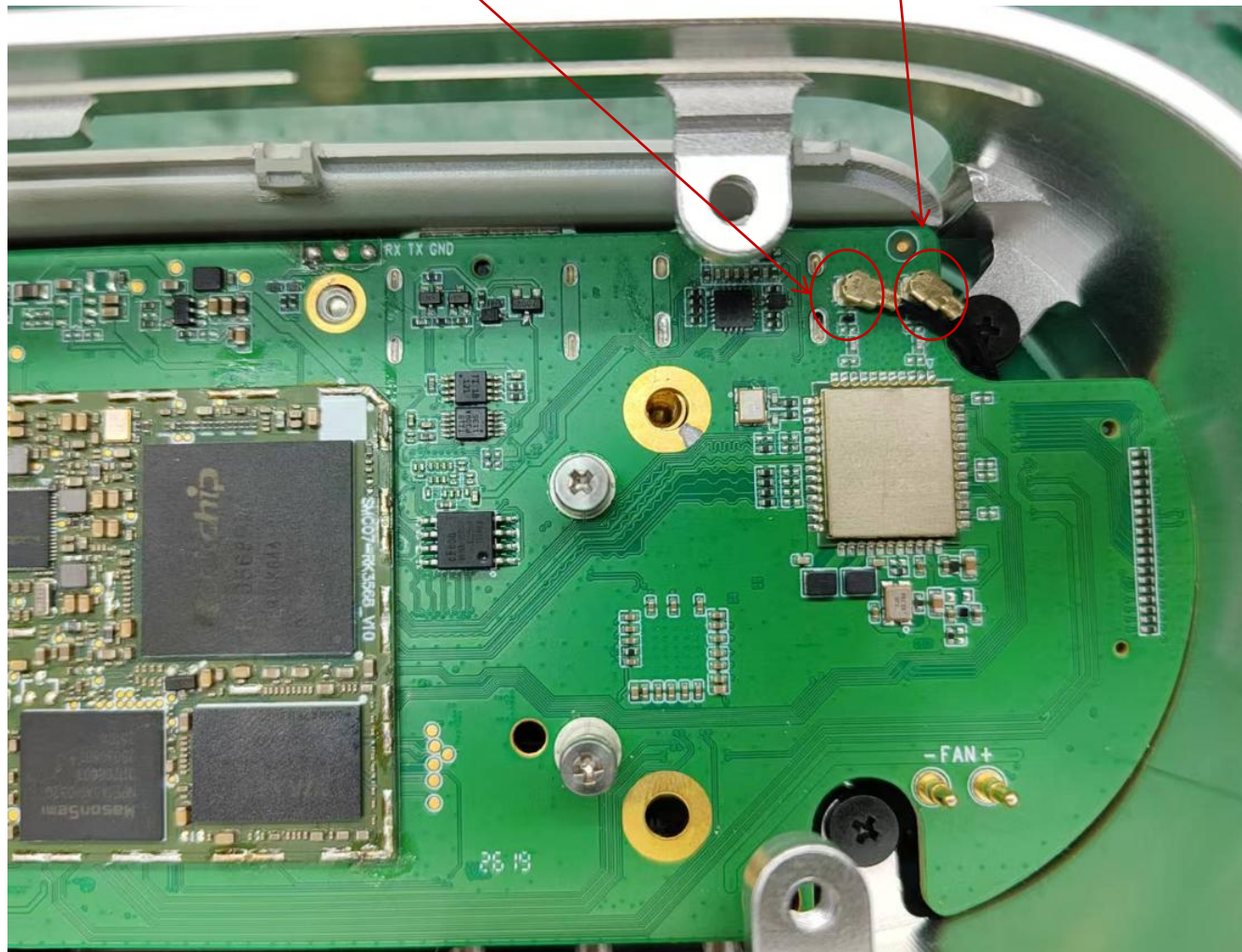
五. 天线位置（ANT Location）



五. 天线位置 (ANT Location)

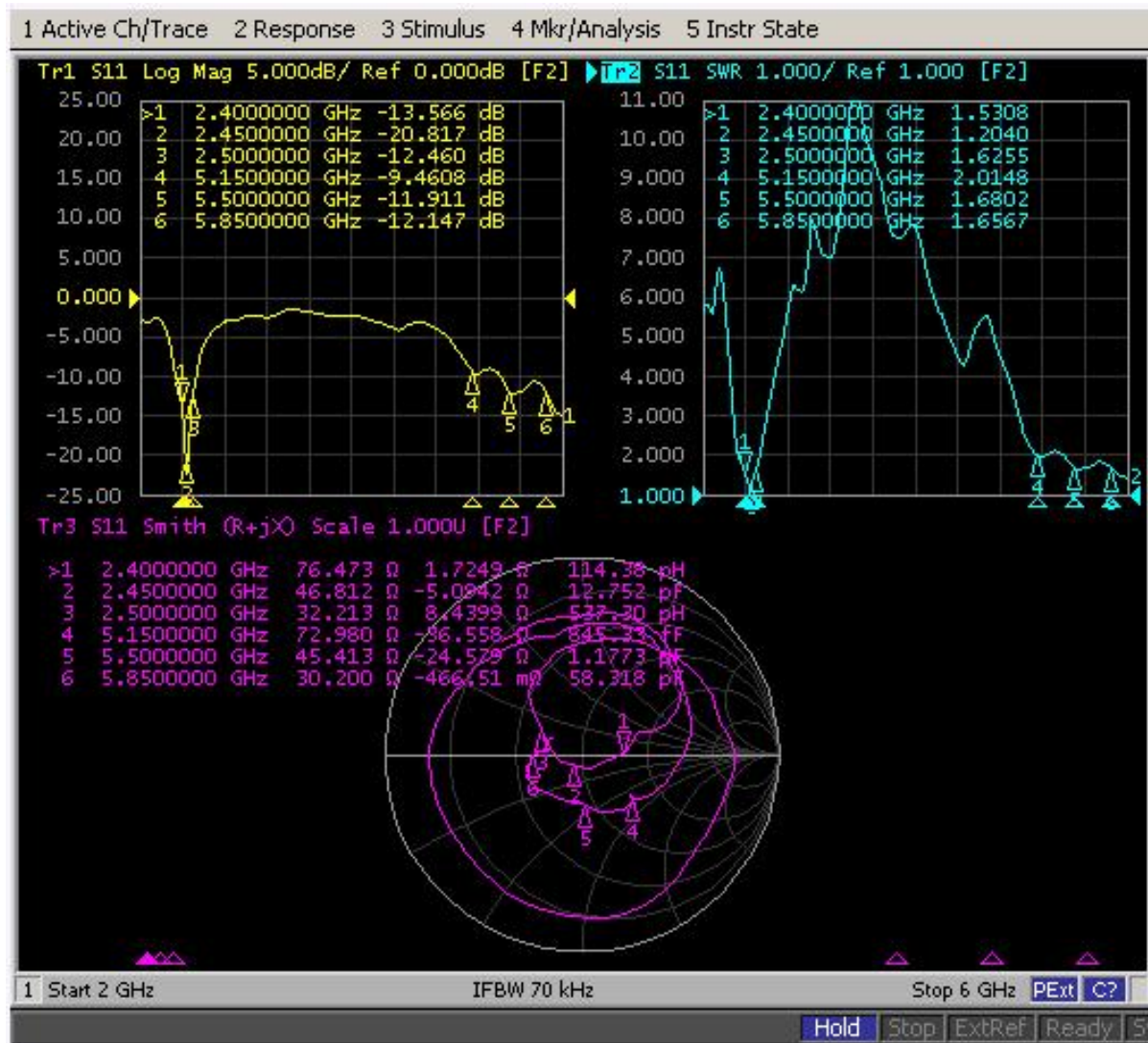
ANT1

ANT2





六. 回波损耗与电压驻波比Return Loss&VSWR ANT1





六. 回波损耗与电压驻波比Return Loss&VSWR ANT2



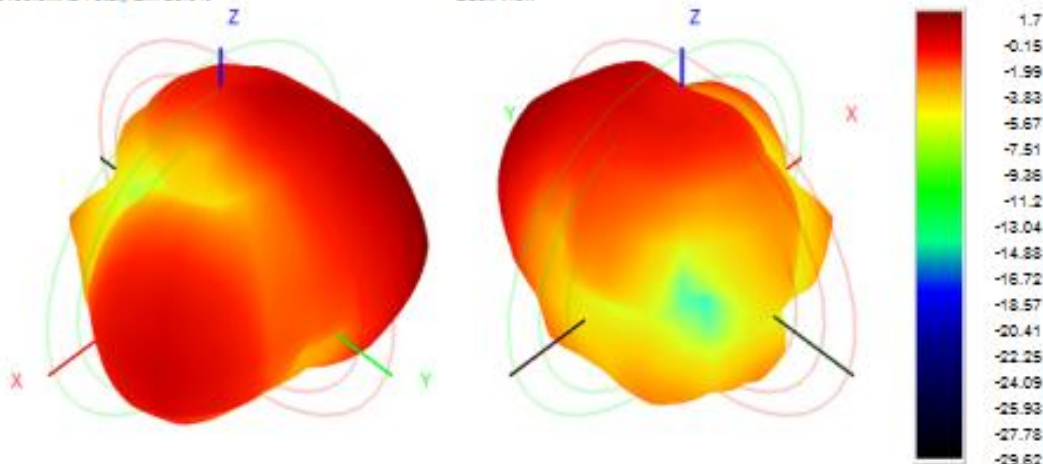


七. 辐射方向图 (Radiation pattern) ANT1

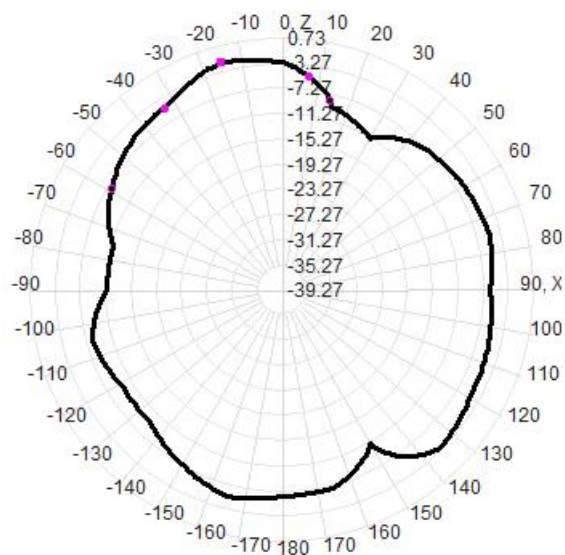
2400MHZ

2400.0MHz Total, Eff: 26.0%

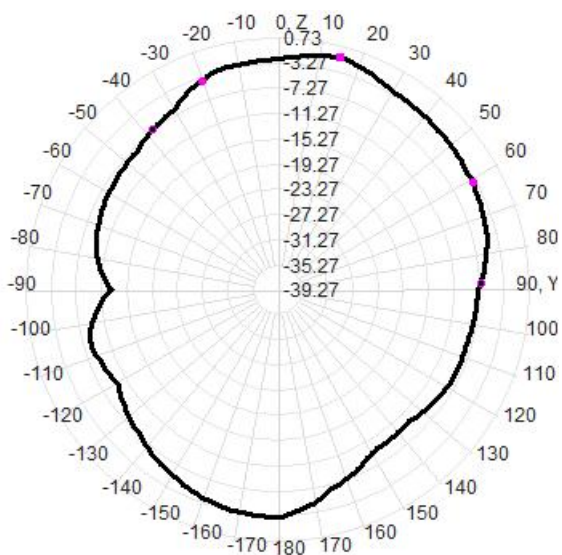
Back View



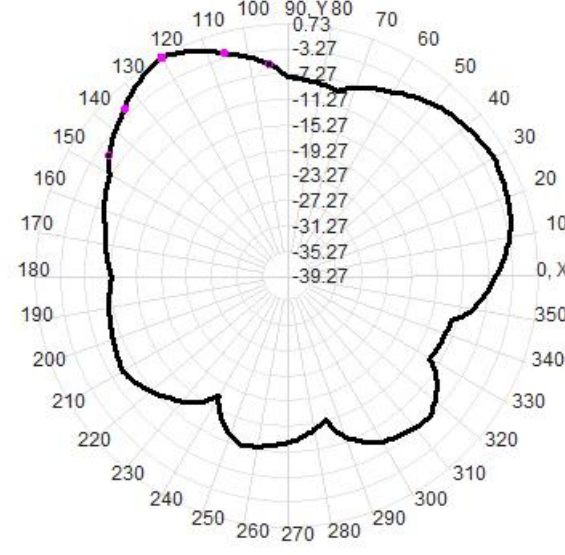
Total(E1-xz)



Total(E2-yz)



Total(H-xy)



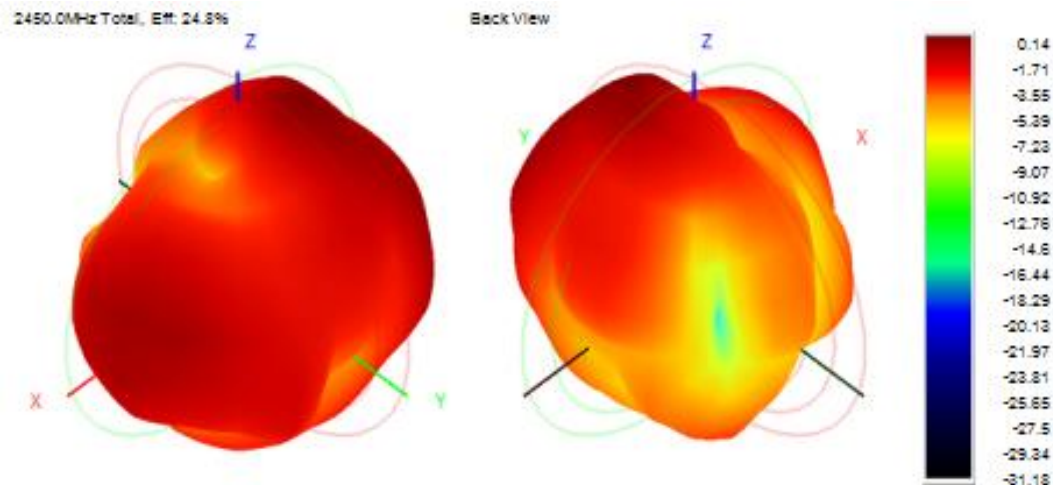


特高传感科技（深圳）有限公司

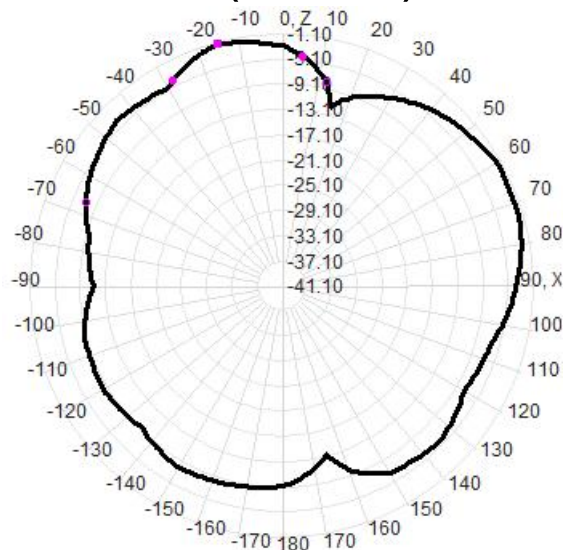
TeGao Sensing Technology (shenzhen) Co.,LTD

七. 辐射方向图 (Radiation pattern) ANT1

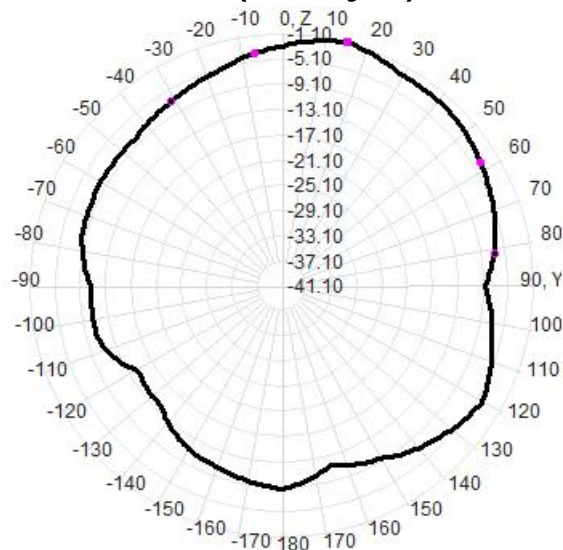
2450MHZ



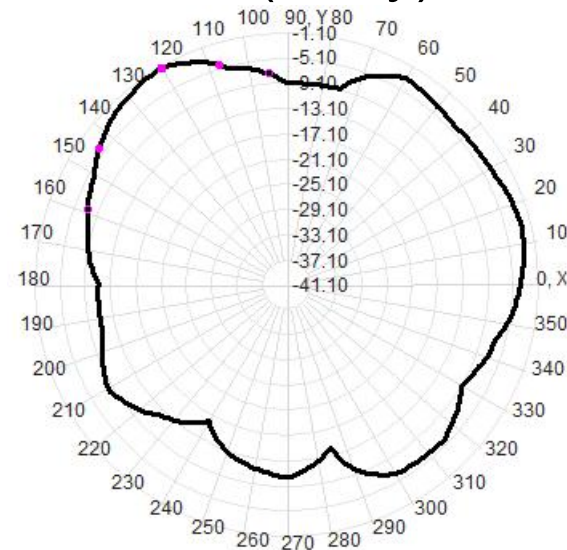
Total(E1-xz)



Total(E2-yz)



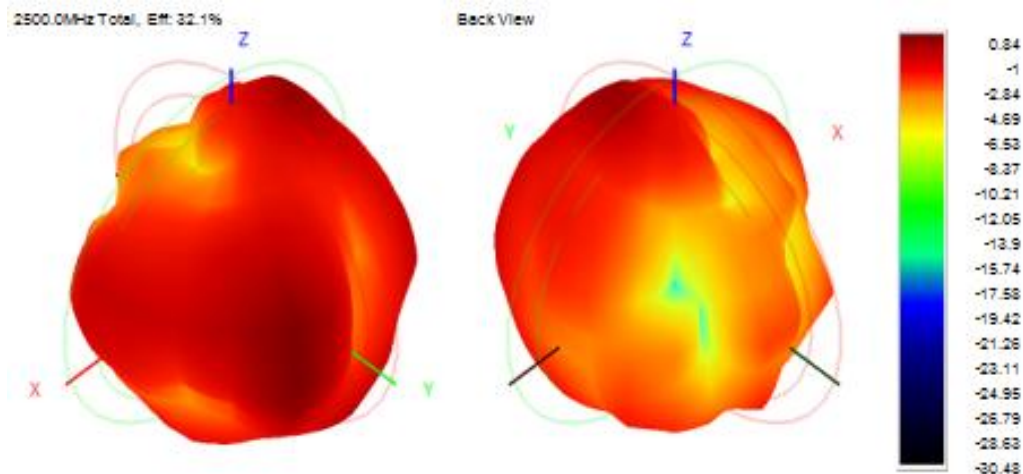
Total(H-xy)



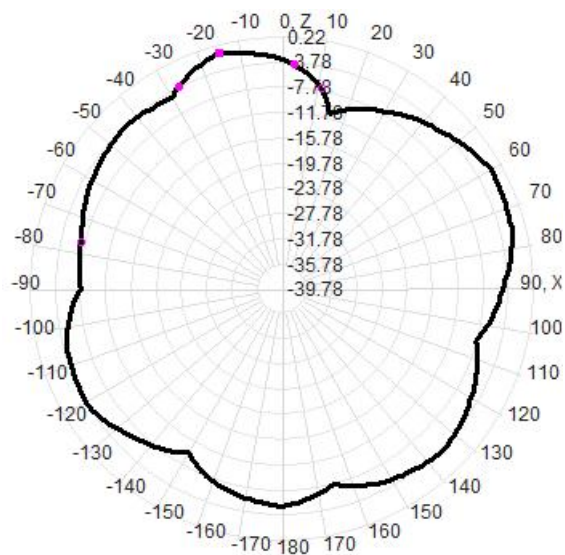


七. 辐射方向图 (Radiation pattern) ANT1

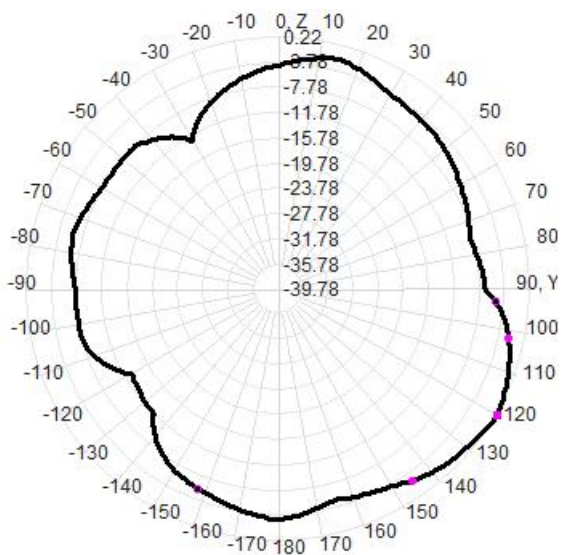
2500MHZ



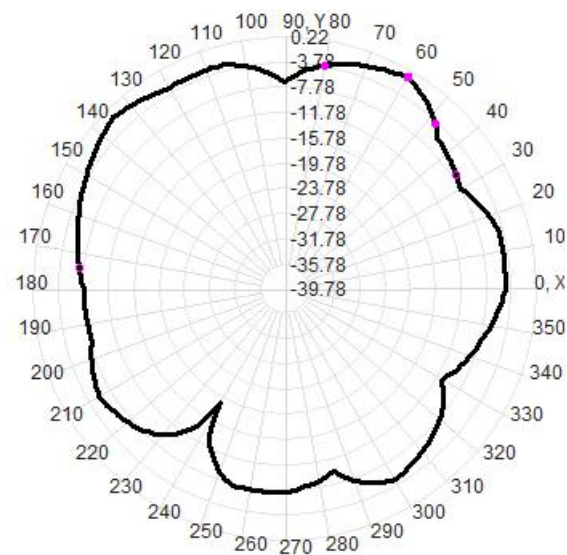
Total(E1-xz)



Total(E2-yz)



Total(H-xy)



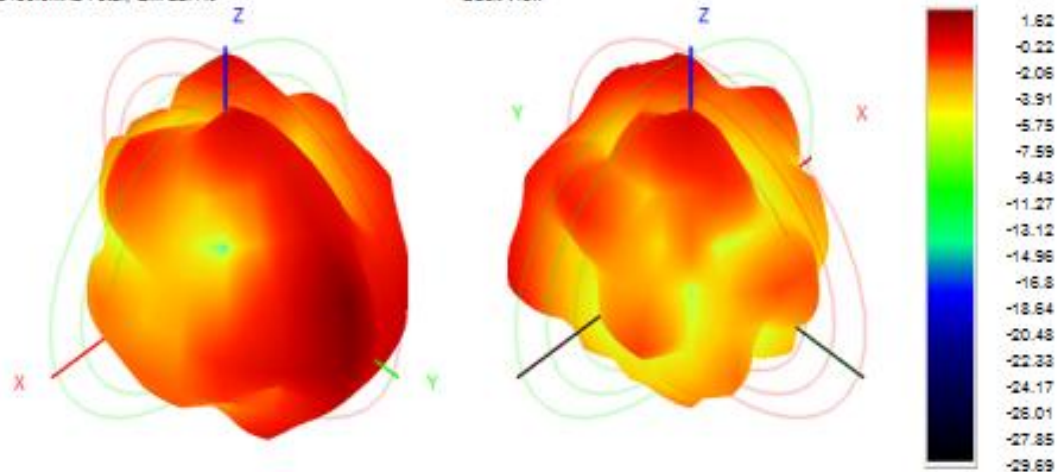


七. 辐射方向图 (Radiation pattern) ANT1

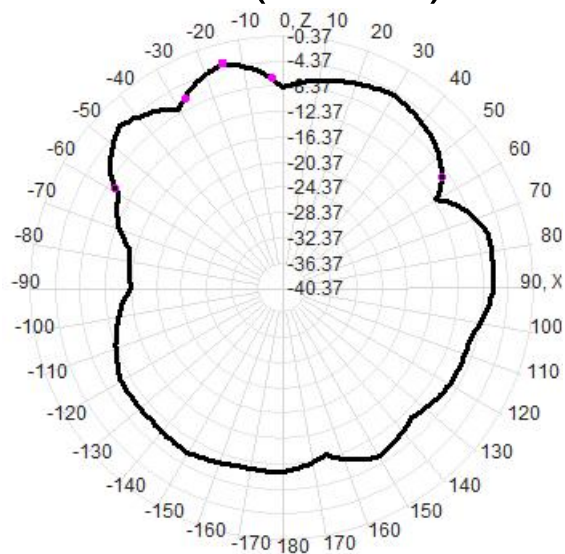
5150MHZ

5150.0MHz Total, Eff: 22.1%

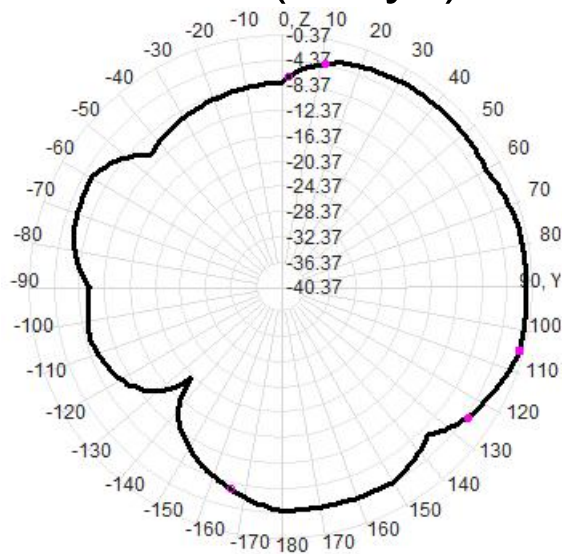
Back View



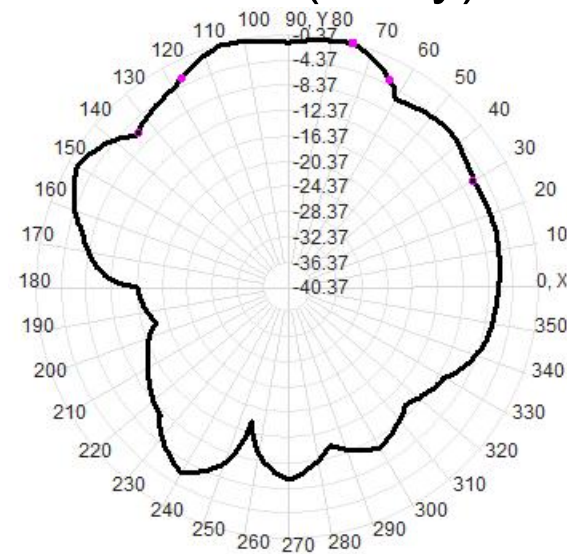
Total(E1-xz)



Total(E2-yz)



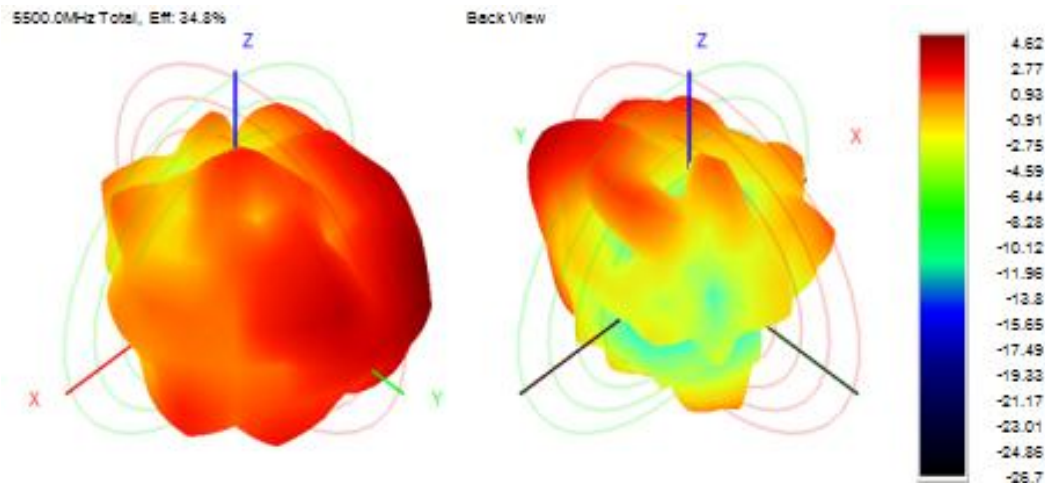
Total(H-xy)



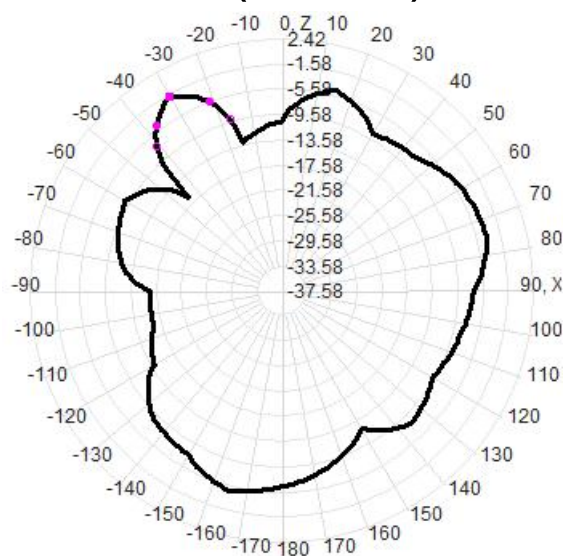


七. 辐射方向图 (Radiation pattern) ANT1

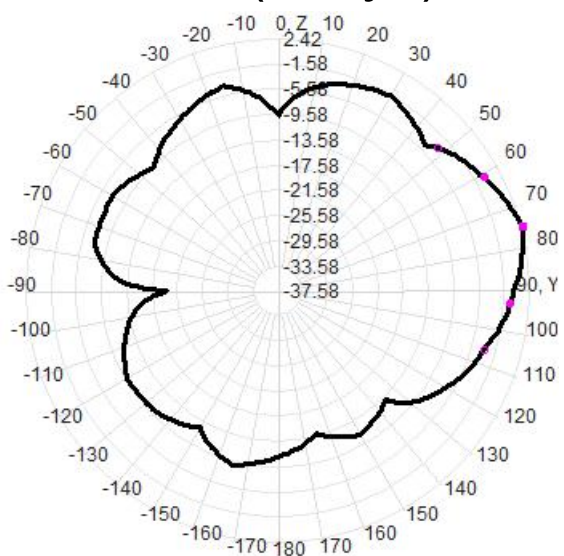
5500MHZ



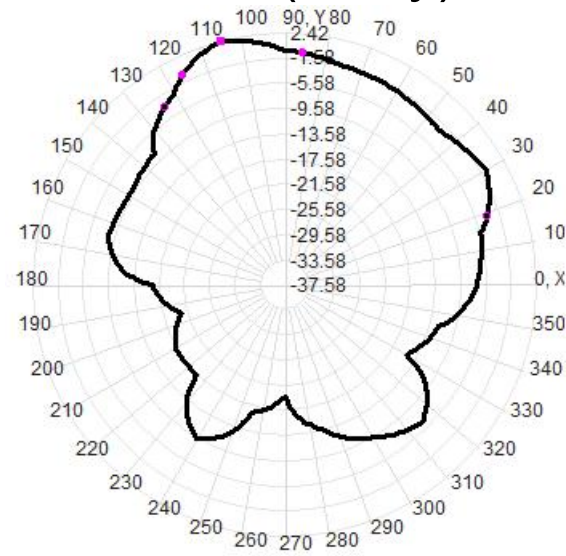
Total(E1-xz)



Total(E2-yz)



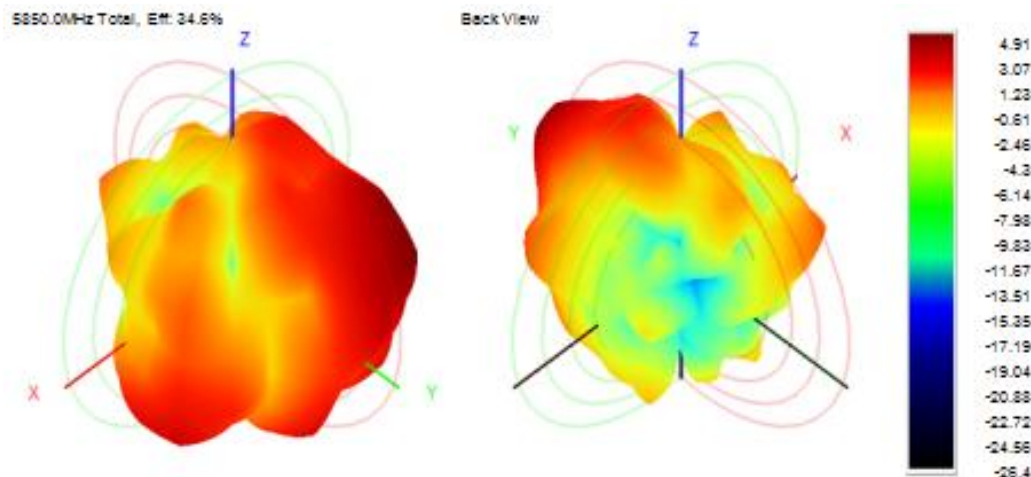
Total(H-xy)



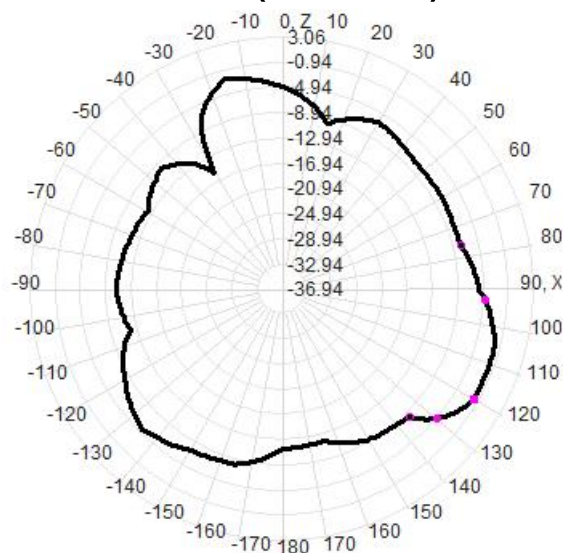


七. 辐射方向图 (Radiation pattern) ANT1

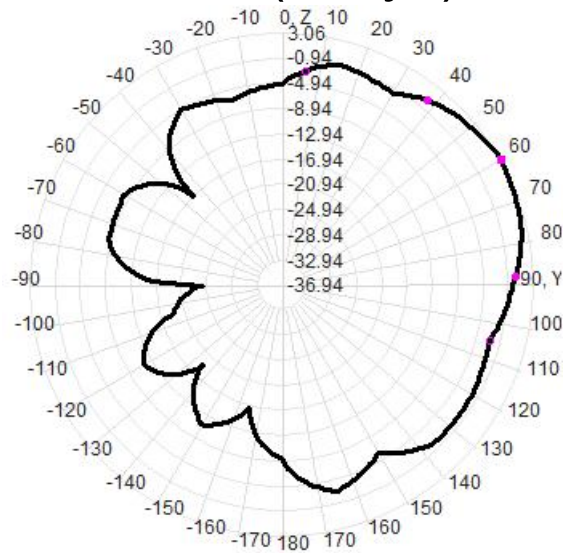
5850MHZ



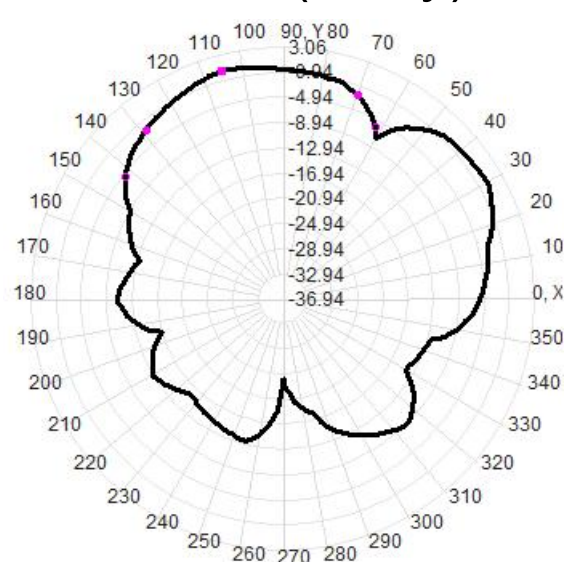
Total(E1-xz)



Total(E2-yz)



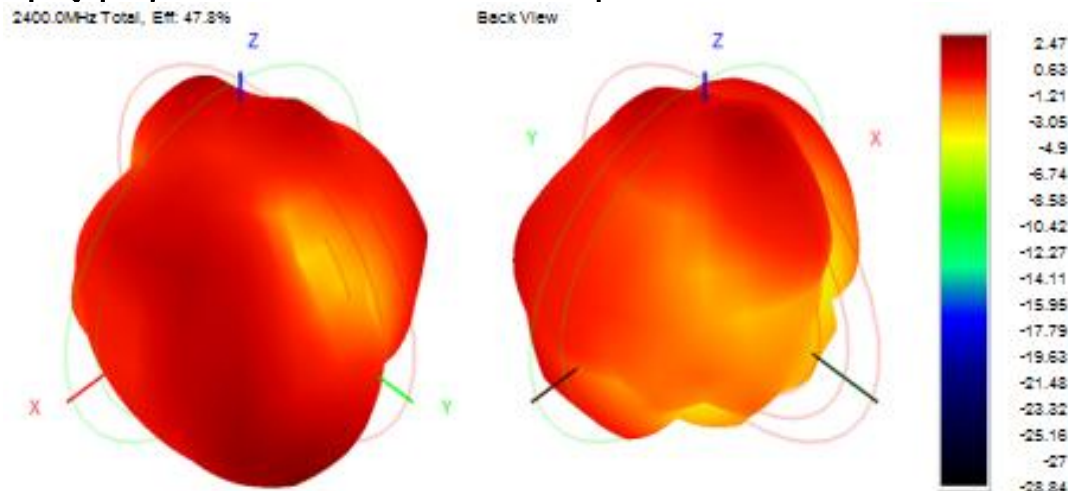
Total(H-xy)



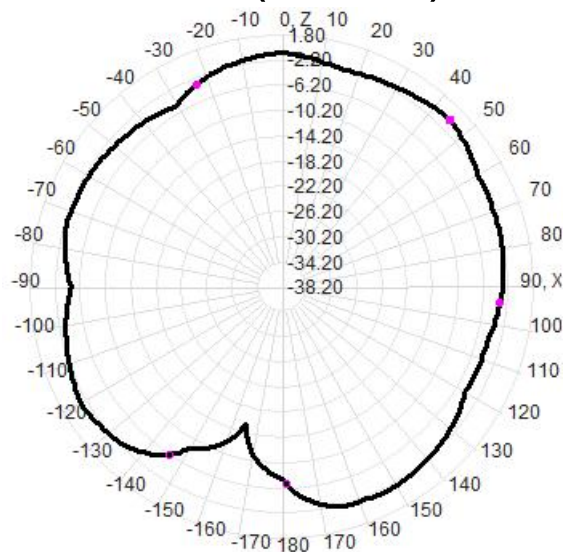


七. 辐射方向图 (Radiation pattern) ANT2

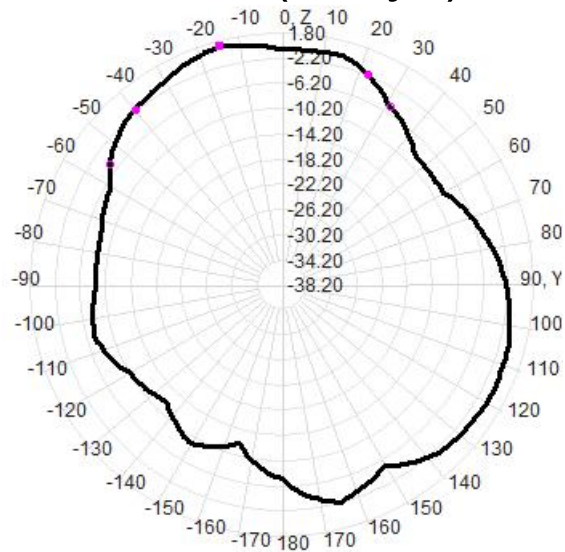
2400MHZ



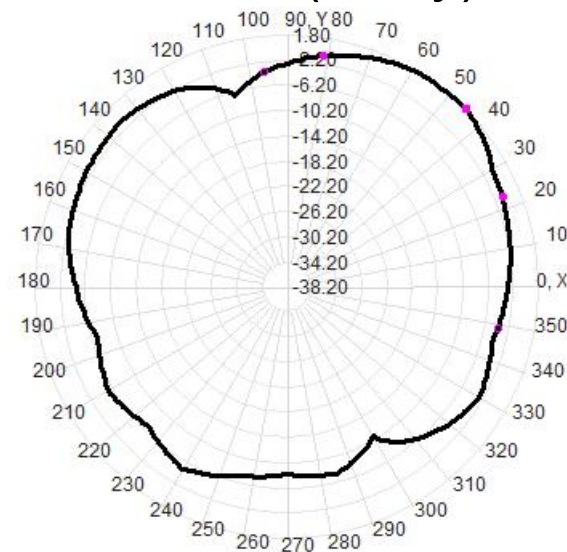
Total(E1-xz)



Total(E2-yz)



Total(H-xy)



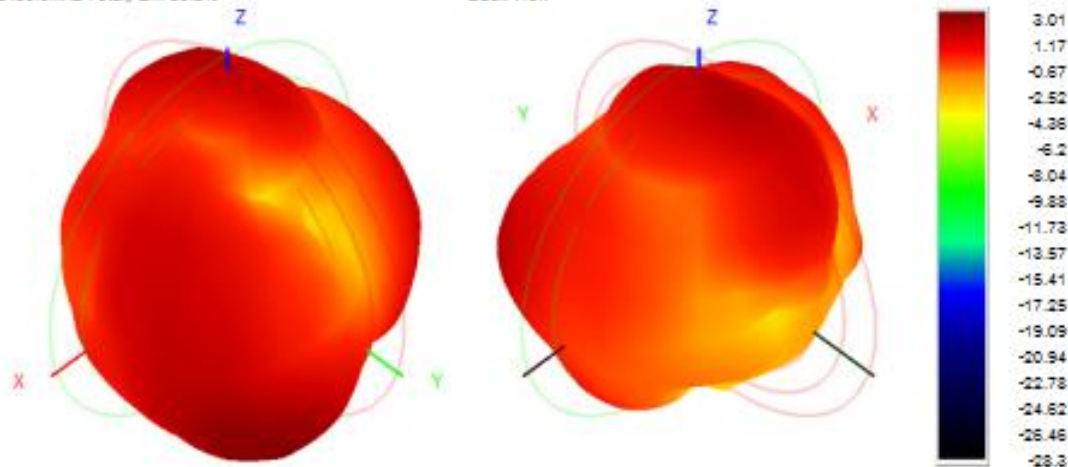


七. 辐射方向图 (Radiation pattern) ANT2

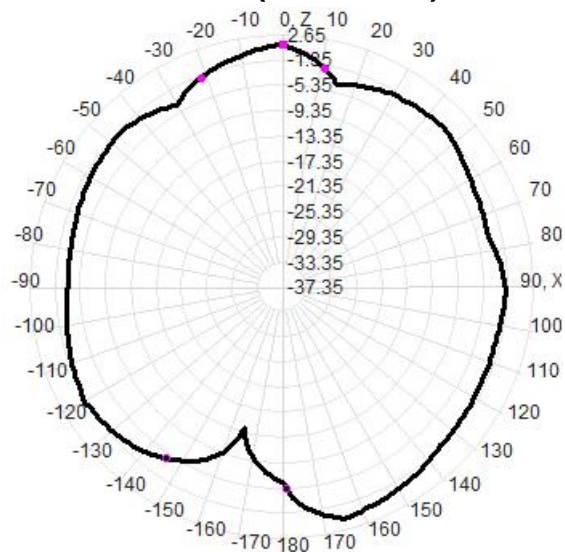
2450MHZ

2450.0MHz Total, Eff: 58.2%

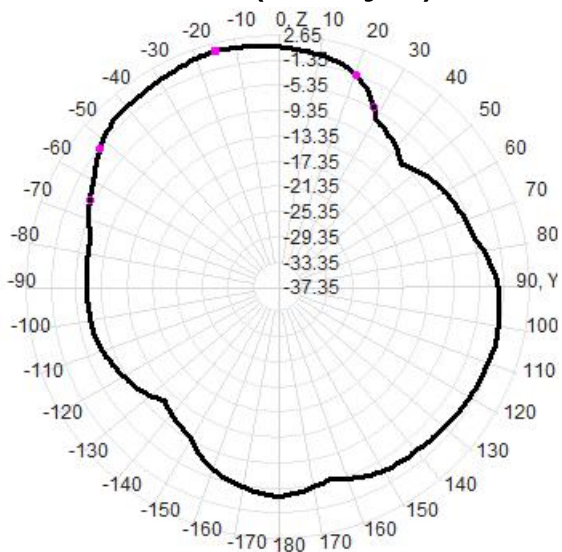
Back View



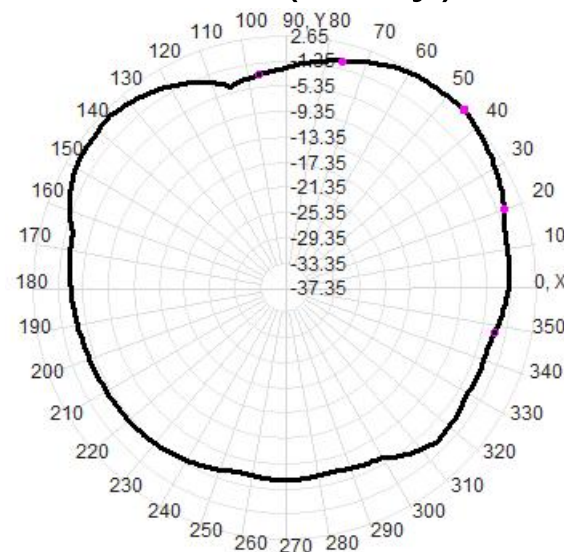
Total(E1-xz)



Total(E2-yz)



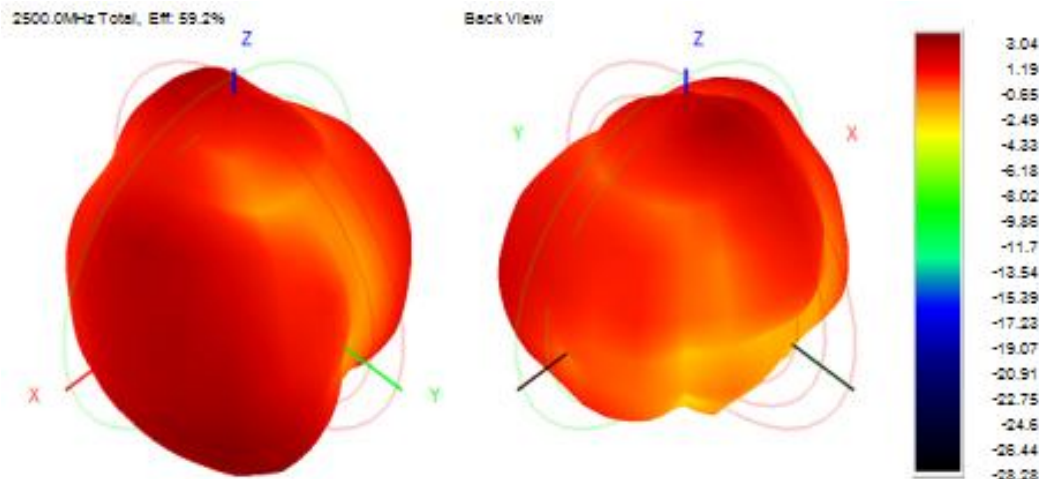
Total(H-xy)



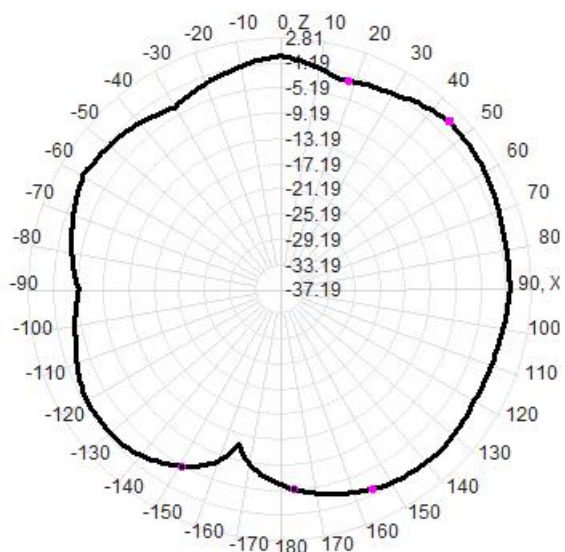


七. 辐射方向图 (Radiation pattern) ANT2

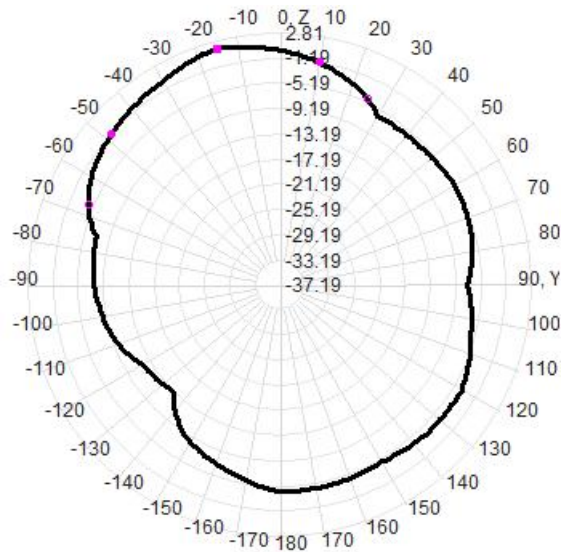
2500MHZ



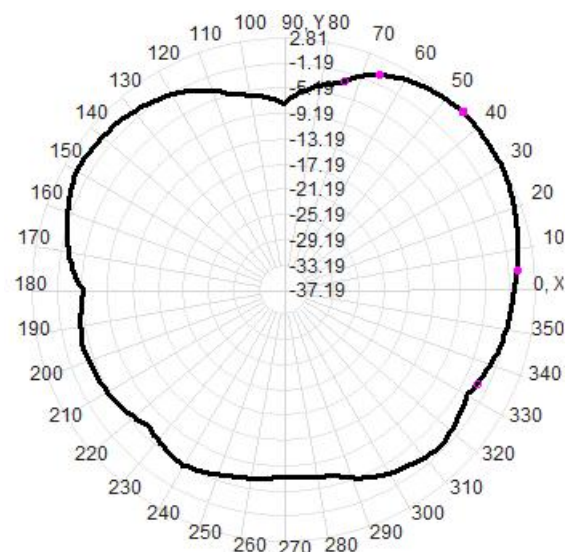
Total(E1-xz)



Total(E2-yz)



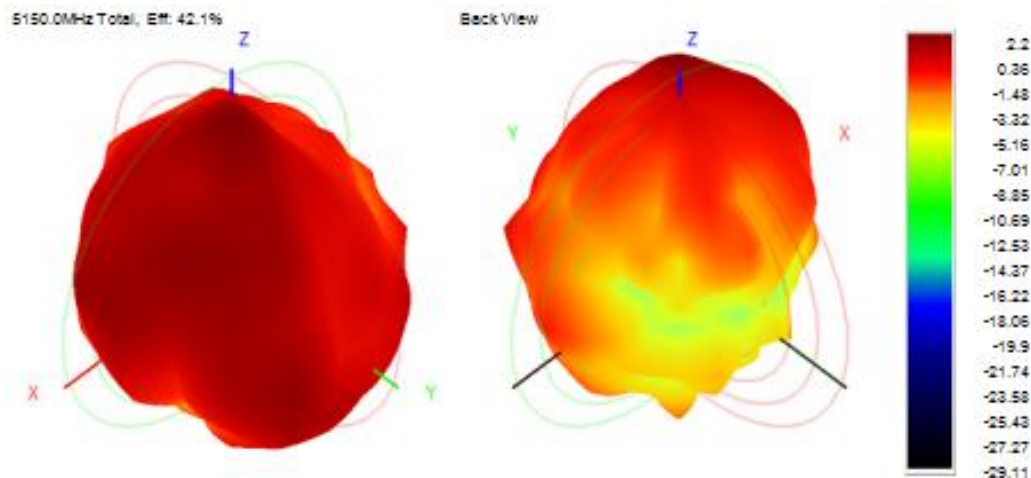
Total(H-xy)



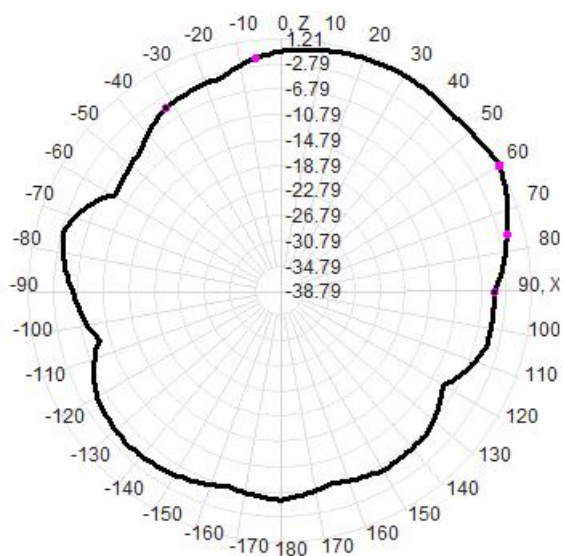


七. 辐射方向图 (Radiation pattern) ANT2

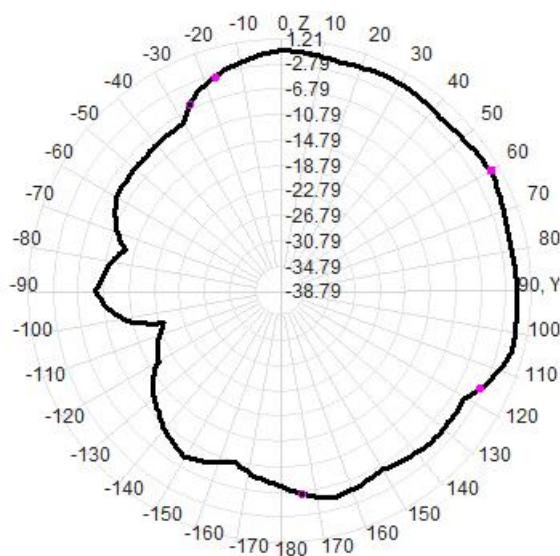
5150MHZ



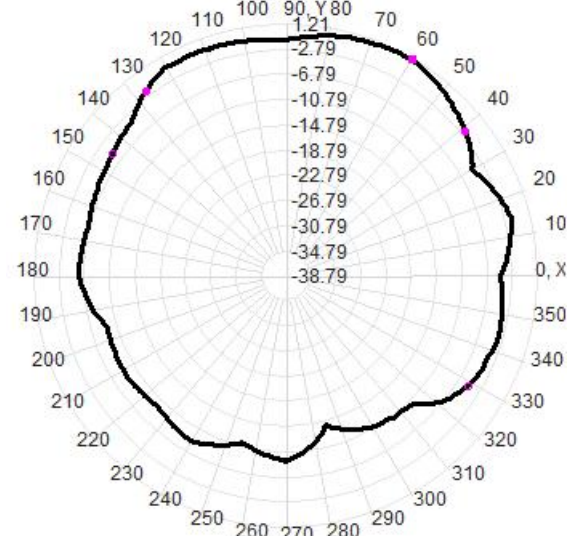
Total(E1-xz)



Total(E2-yz)



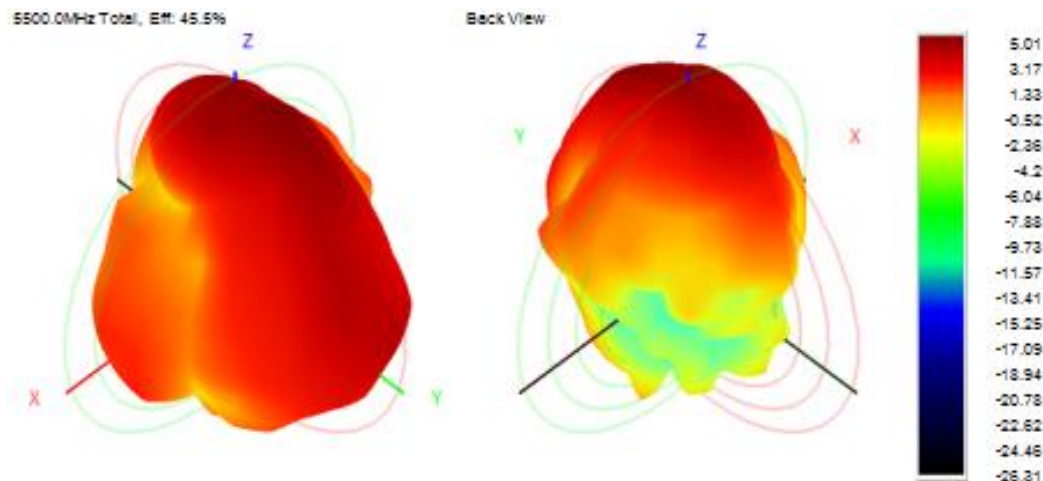
Total(H-xy)



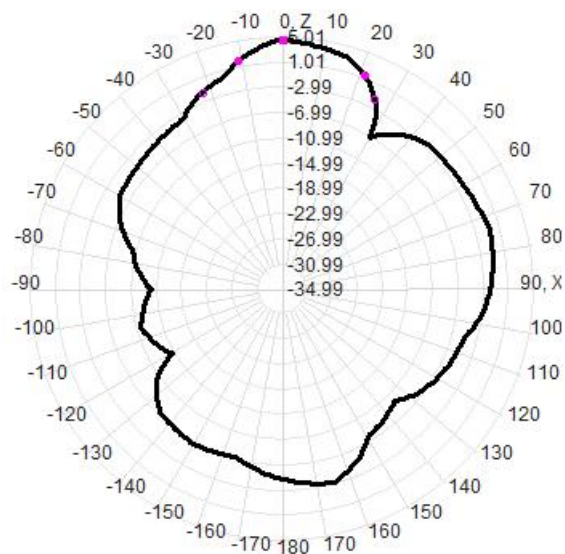


七. 辐射方向图 (Radiation pattern) ANT2

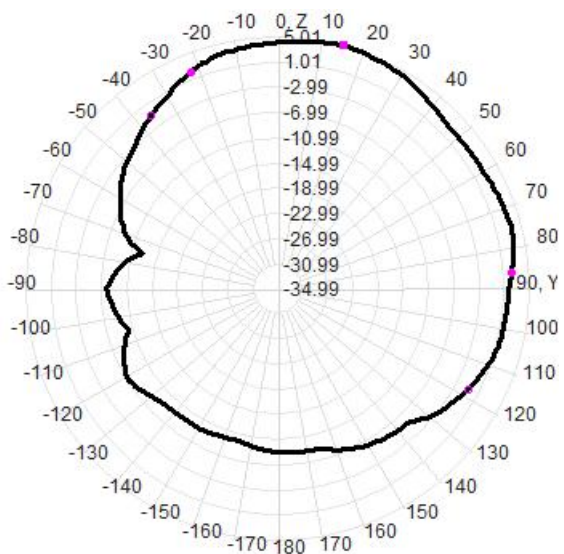
5500MHZ



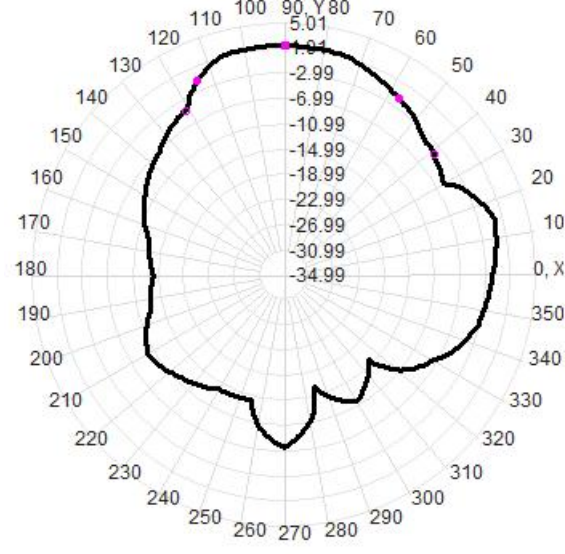
Total(E1-xz)



Total(E2-yz)



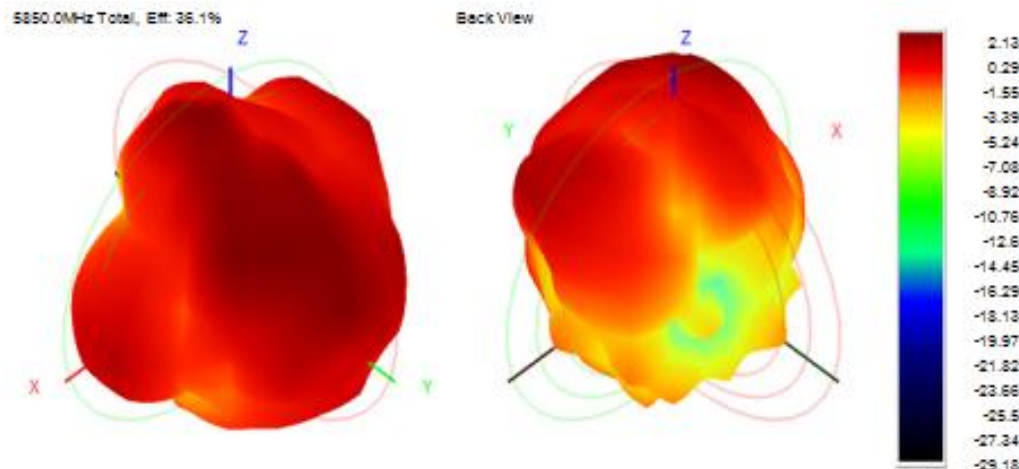
Total(H-xy)



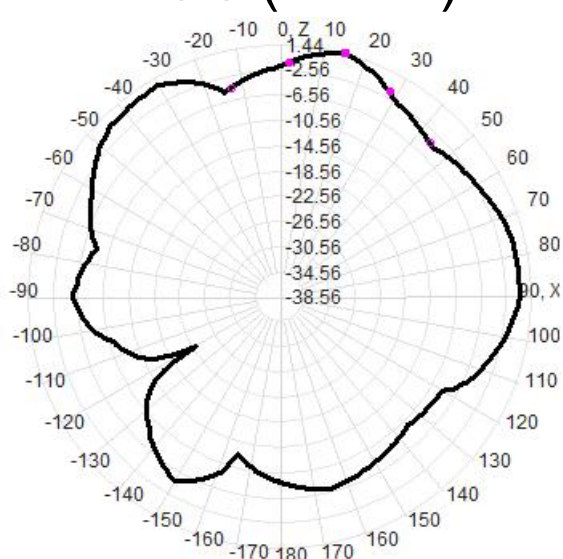


七. 辐射方向图 (Radiation pattern) ANT2

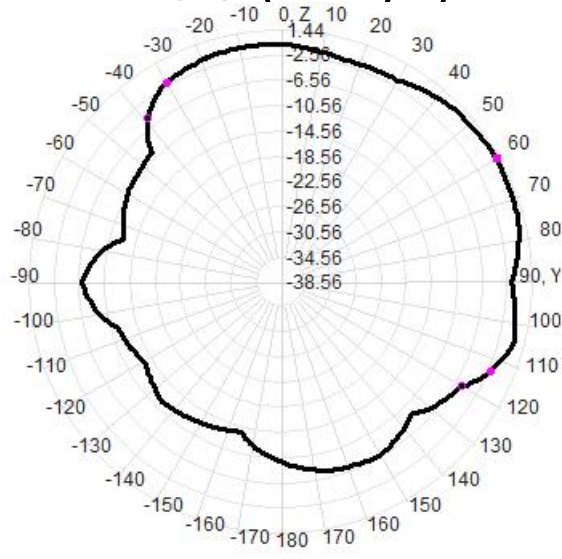
5850MHZ



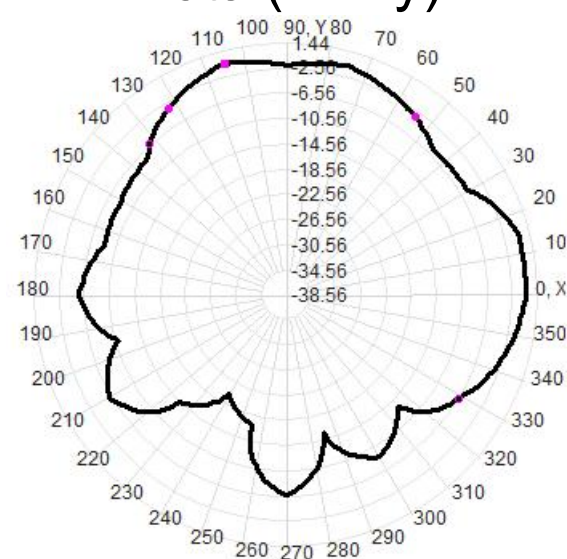
Total(E1-xz)



Total(E2-vz)



Total(H-xy)





八. 无源效率、增益（Passive efficiency and gain ）ANT1

Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	1.70	25.96	12	5150.0	1.62	22.08	27	5525.0	4.89	34.29
2	2410.0	1.71	26.72	13	5175.0	1.67	21.98	28	5550.0	4.99	36.35
3	2420.0	1.14	25.73	14	5200.0	1.92	23.38	29	5575.0	4.71	36.74
4	2430.0	0.43	25.25	15	5225.0	2.57	28.27	30	5600.0	4.51	37.42
5	2440.0	0.04	24.68	16	5250.0	3.30	32.99	31	5625.0	4.34	36.78
6	2450.0	0.14	24.78	17	5275.0	3.45	34.19	32	5650.0	4.72	34.67
7	2460.0	0.22	25.37	18	5300.0	3.38	34.28	33	5675.0	5.01	35.71
8	2470.0	0.33	26.89	19	5325.0	3.26	33.03	34	5700.0	5.10	35.64
9	2480.0	0.33	28.45	20	5350.0	3.29	33.55	35	5725.0	5.39	37.14
10	2490.0	0.26	30.68	21	5375.0	3.81	35.71	36	5750.0	5.42	37.98
11	2500.0	0.84	32.11	22	5400.0	4.18	35.51	37	5775.0	5.27	37.10
				23	5425.0	4.62	37.78	38	5800.0	5.32	36.48
				24	5450.0	4.54	36.25	39	5825.0	5.12	33.84
				25	5475.0	4.59	35.41	40	5850.0	4.91	34.57
				26	5500.0	4.62	34.83				



八. 无源效率、增益（Passive efficiency and gain ）ANT2

Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	2.47	47.84	12	5150.0	2.20	42.10	26	5500.0	5.01	45.54
2	2410.0	2.90	51.43	13	5175.0	2.41	39.60	27	5525.0	4.93	46.49
3	2420.0	3.15	53.68	14	5200.0	1.95	39.11	28	5550.0	4.87	49.80
4	2430.0	3.27	55.18	15	5225.0	1.70	42.09	29	5575.0	4.00	48.65
5	2440.0	3.21	56.28	16	5250.0	1.83	43.12	30	5600.0	2.98	47.01
6	2450.0	3.01	56.23	17	5275.0	1.37	40.95	31	5625.0	3.00	45.07
7	2460.0	2.75	55.68	18	5300.0	1.66	38.40	32	5650.0	2.82	40.18
8	2470.0	2.51	56.50	19	5325.0	1.97	37.19	33	5675.0	2.84	38.10
9	2480.0	2.50	56.98	20	5350.0	1.78	36.14	34	5700.0	2.53	35.41
10	2490.0	2.83	59.00	21	5375.0	2.39	37.10	35	5725.0	2.45	34.69
11	2500.0	3.04	59.21	22	5400.0	2.99	37.86	36	5750.0	2.17	35.11
				23	5425.0	3.92	41.62	37	5775.0	1.68	35.18
				24	5450.0	4.28	42.30	38	5800.0	2.18	35.98
				25	5475.0	4.66	43.15	39	5825.0	2.16	34.11
								40	5850.0	2.13	36.07



特高传感科技（深圳）有限公司

TeGao Sensing Technology (shenzhen) Co.,LTD

九. 环境处理（Environmental treatment）

客户原环境，我司未更改

Our company has not made any changes to the customer's original environment.



十. 总结 (Summarize)

1. 以上数据为AI DOCK机器天线样品无源测试数据，有源数据待测试排查完更新。

1.The above data are passive test results of antenna samples for the AI DOCK unit. Active data will be updated once testing and troubleshooting are completed.

