



天线规格书

Antenna Part Specification

项目名称: Project name:	CG01
天线名称: Material category:	BT 天线组件 BT antenna components
国光料号: GGEC Part Number:	EAN00521
思讯料号: Cicent Part Number:	101BE3E2123
制造商名称: Manufacturer:	深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd.
制造商地址: Manufacturer address:	深圳市宝安区创业二路东联大厦 A 座 505-506 505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
版本号: Version:	V2.0
日期: Date:	2025.10.11



目录

Catalogue

一：无源测试报告 The report of passive data.....	3
二：天线匹配电路 Antenna matching circuit.....	15
三：天线结构图档 Antenna structure diagram file	16

变更记录栏 Change record			
编制/变更日期 Compile / change date	变更理由 Reason for change	变更内容 Changed content	版本 Versio n
2025.08.15	初版发行 First edition	初版发行 First edition	V1.0
2025.10.11	天线调整 Antenna adjustment	资料更新 Data update	V2.0



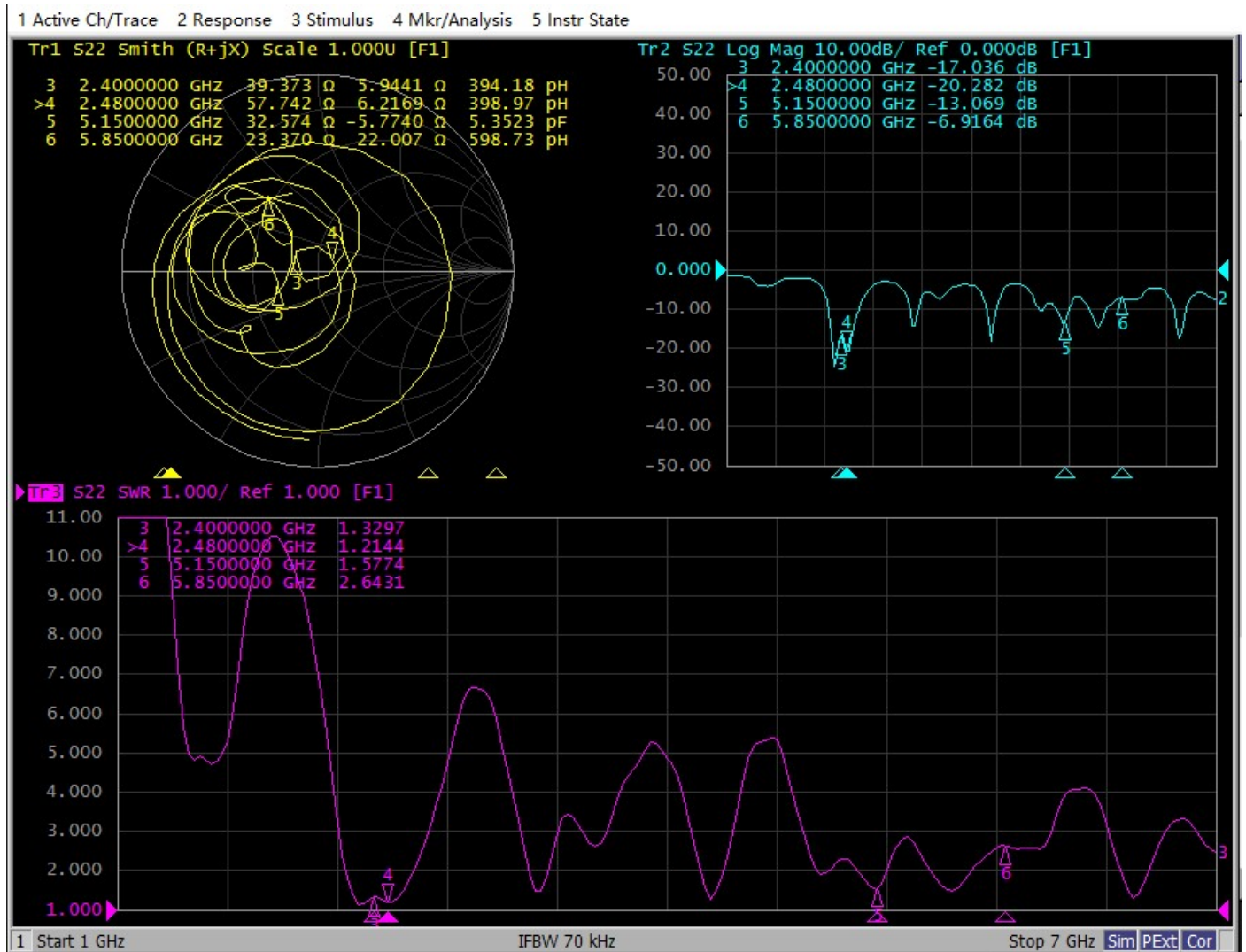
一：无源测试报告 The report of passive data



Agilent E5071C

天线 S11 参数：（自由）

Antenna S11 parameters: (Free)





天线效率和增益：（2.4G-自由）

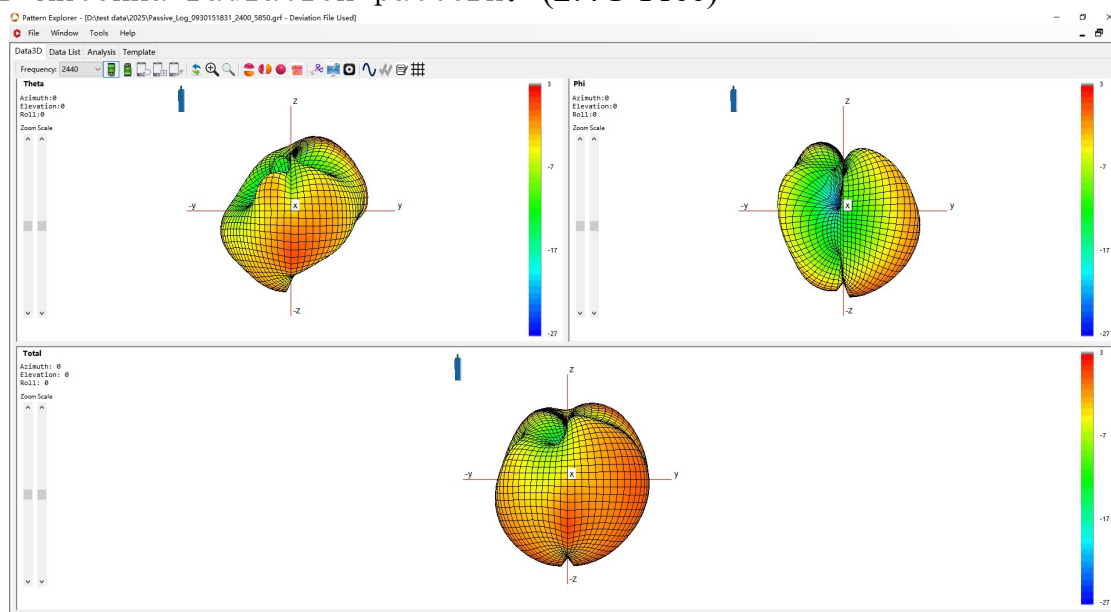
Antenna efficiency and gain: (2.4G-Free)

2. 4G			
频点 frequency (MHz)	效率 efficiency (dB)	增益 gain (dBi)	效率 efficiency (%)
2400	-3.6	0.3	43.7
2410	-3.7	0.4	43.1
2420	-3.7	0.5	42.7
2430	-3.7	0.6	42.3
2440	-3.7	0.5	42.5
2450	-3.8	0.5	42.2
2460	-3.8	0.4	41.7
2470	-3.9	0.3	40.8
2480	-4.0	0.2	39.9
平均值 AVG	-3.76	0.42	42.08



天线 3D 方向图: (2.4G-自由)

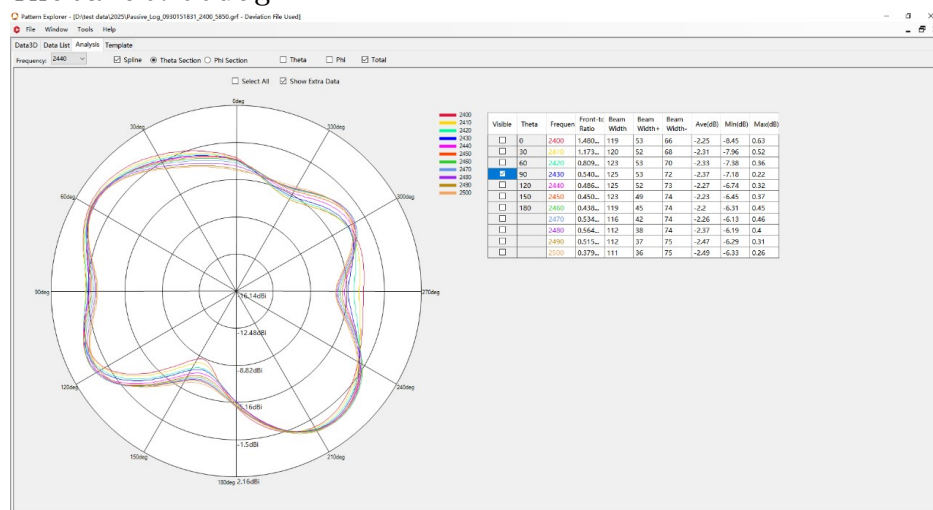
3D Antenna radiation pattern: (2.4G-Free)



天线 2D 方向图: (2.4G-自由)

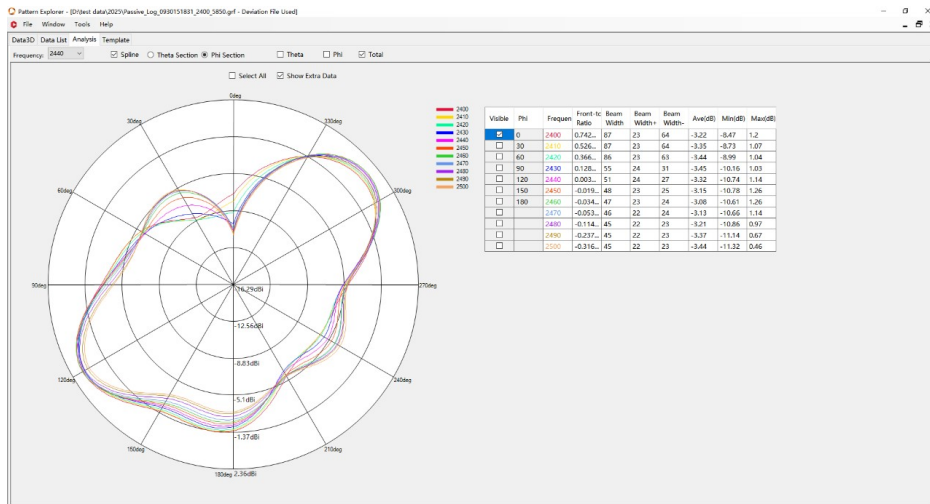
2D Antenna radiation pattern: (2.4G-Free)

Theta=90.00deg

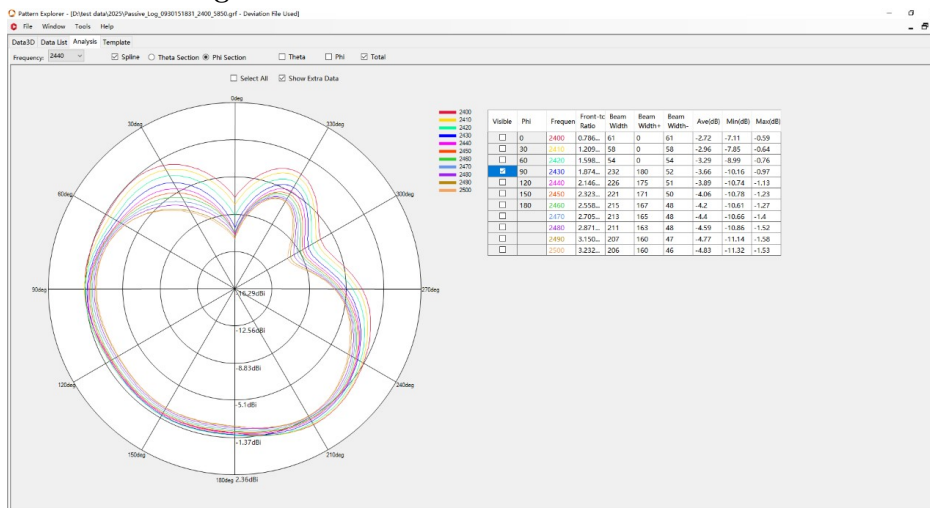




Phi=0.00deg



Phi=90.00deg





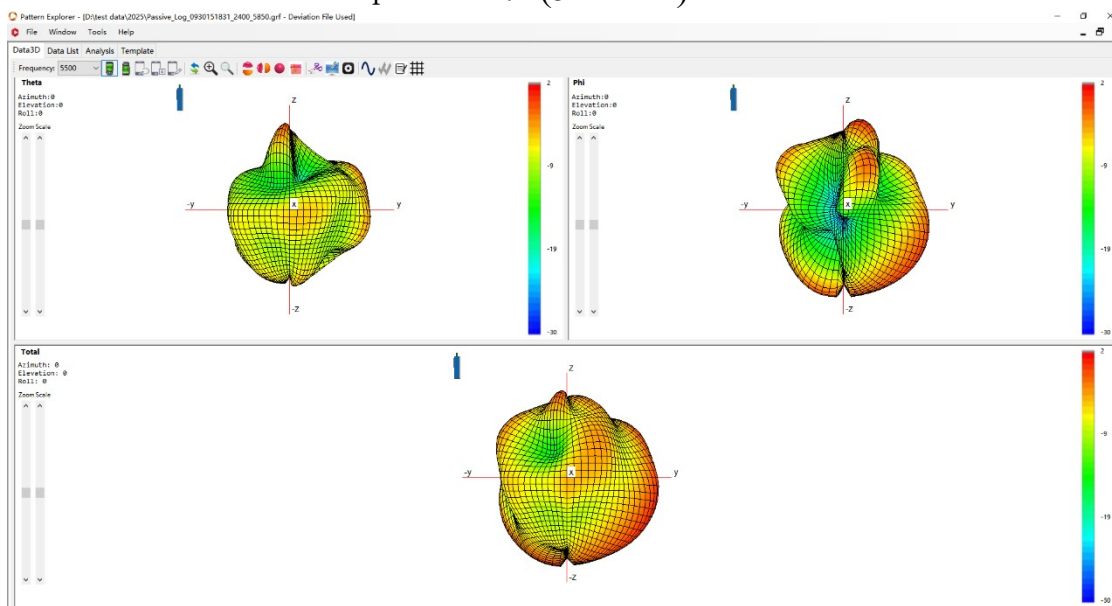
天线效率和增益：（5G-自由）

Antenna efficiency and gain: (5G -Free)

5G			
频点 frequency (MHz)	效率 efficiency (dB)	增益 gain (dBi)	效率 efficiency (%)
5150	-4.2	0.6	38.0
5200	-4.3	0.6	37.6
5250	-4.6	0.4	34.5
5300	-4.8	0.3	33.4
5350	-5.4	0.2	28.6
5400	-4.4	-0.2	36.4
5450	-3.9	1.6	40.6
5500	-3.5	1.8	45.0
5550	-3.2	1.8	47.5
5600	-3.5	1.2	45.2
5650	-3.7	0.5	43.1
5700	-4.2	-0.4	38.0
5750	-4.5	-0.6	35.2
5800	-4.3	-0.6	37.5
5850	-4.0	-0.5	40.0
平均值 AVG	-4.2	0.5	38.7

天线 3D 方向图：（5G-自由）

3D Antenna radiation pattern: (5G-Free)

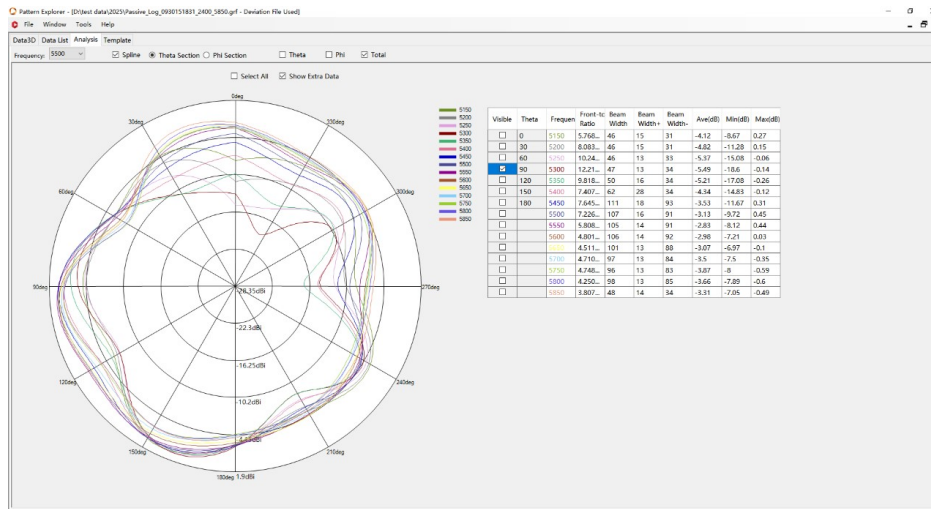




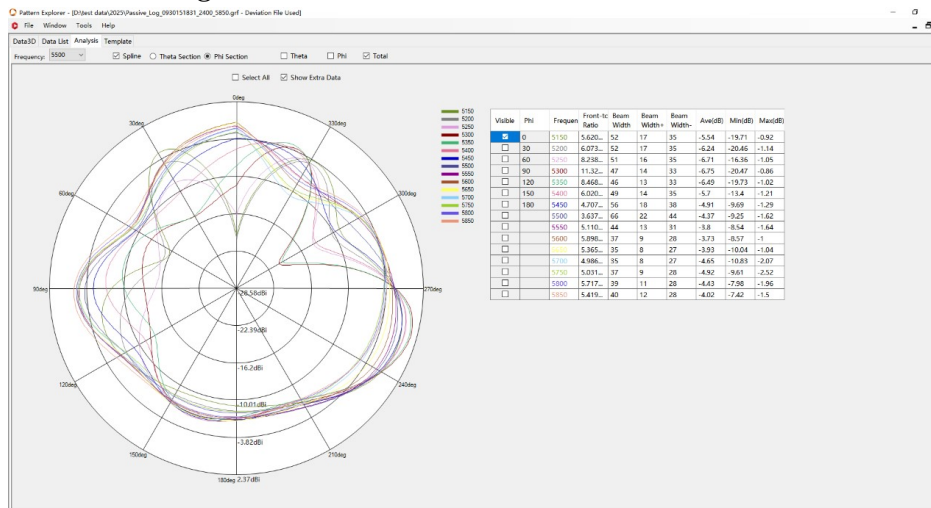
天线 2D 方向图: (5G-自由)

2D Antenna radiation pattern: (5G-Free)

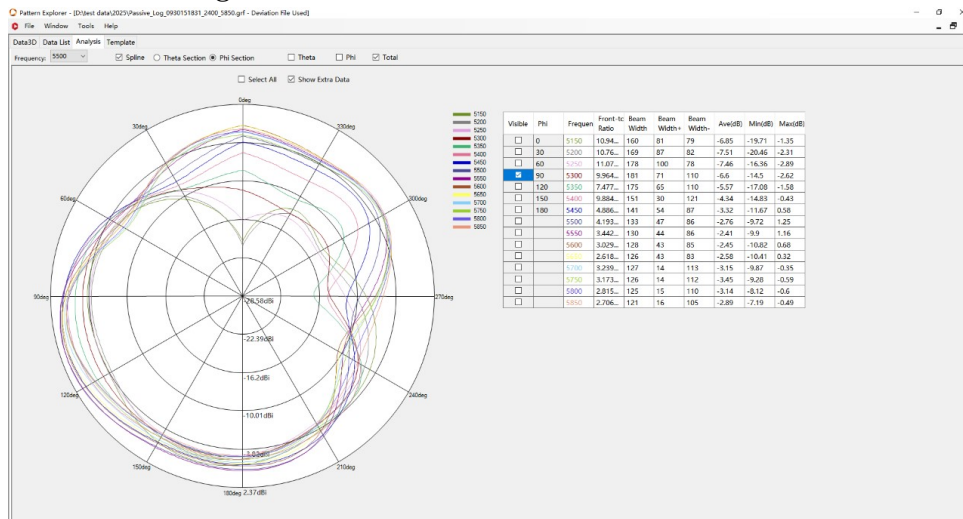
Theta=90.00deg



Phi=0.00deg



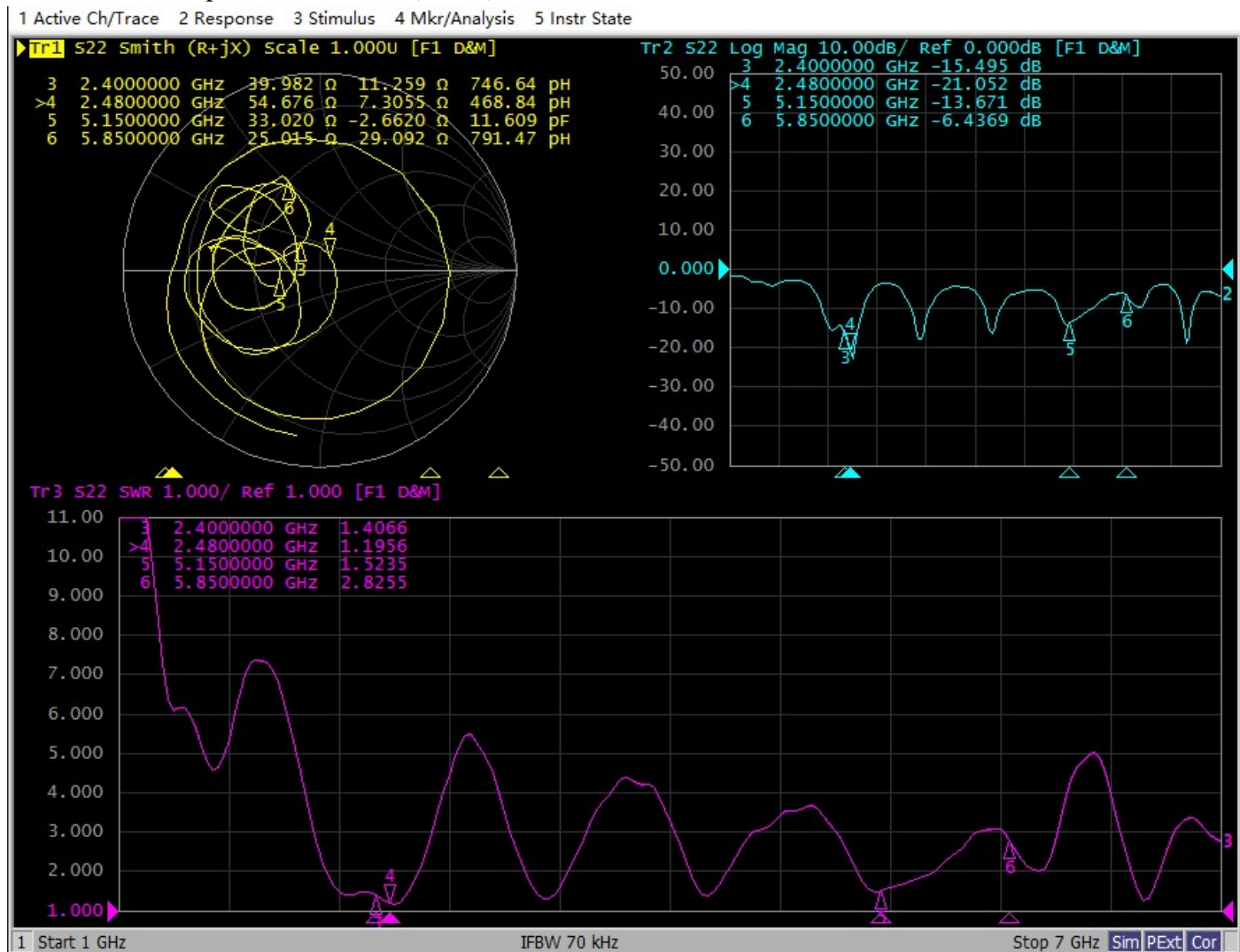
Phi=90.00deg





天线 S11 参数: (头模)

Antenna S11 parameters: (Head)



天线效率和增益：（2.4G-头模）

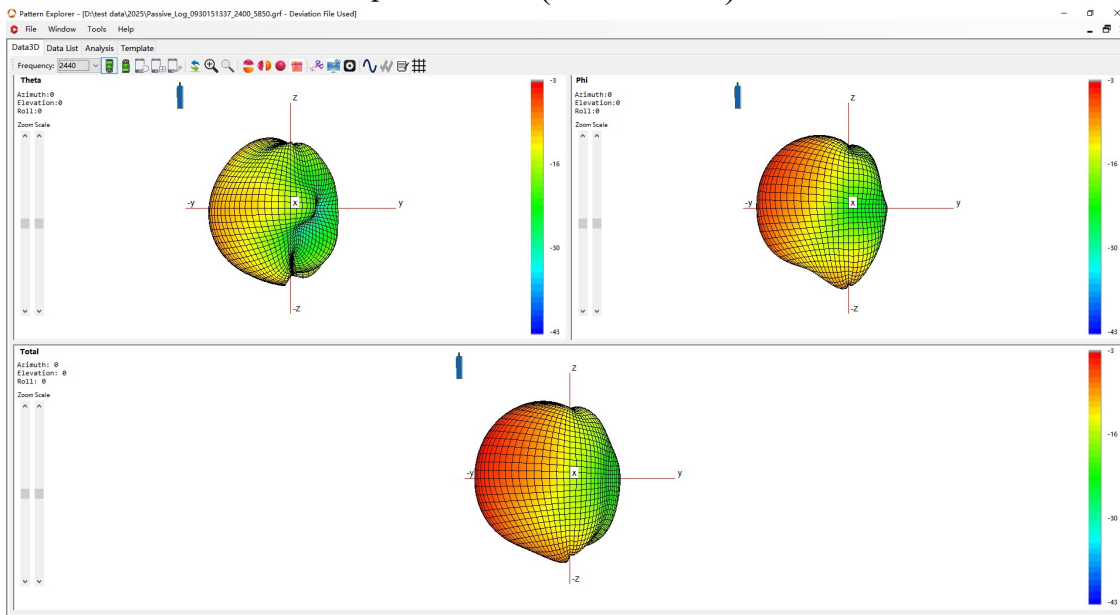
Antenna efficiency and gain: (2.4G- Head)

2. 4G			
频点 frequency (MHz)	效率 efficiency (dB)	增益 gain (dBi)	效率 efficiency (%)
2400	-12.0	-5.3	6.3
2410	-12.0	-5.2	6.3
2420	-12.0	-5.3	6.3
2430	-11.2	-3.0	7.6
2440	-11.5	-3.6	7.2
2450	-11.5	-4.2	7.0
2460	-12.0	-5.4	6.3
2470	-12.0	-5.5	6.3
2480	-12.1	-5.5	6.2
平均值 AVG	-11.8	-4.8	6.6



天线 3D 方向图: (2.4G-头模)

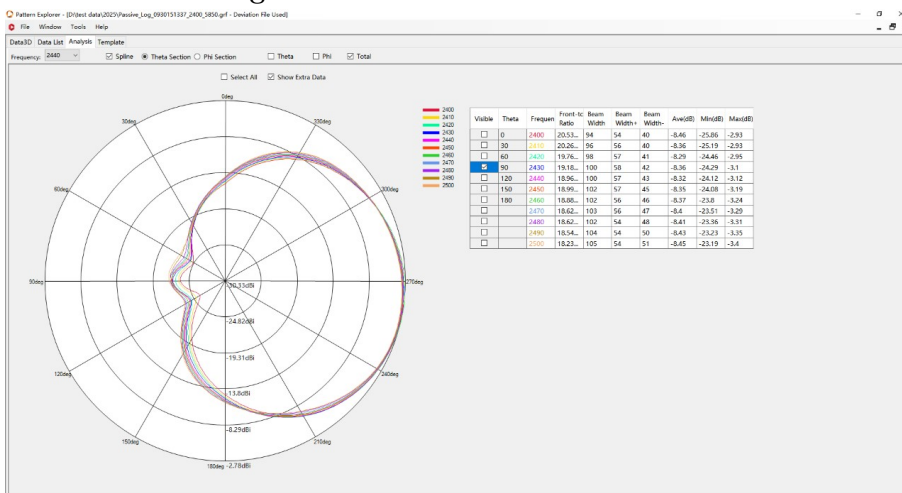
3D Antenna radiation pattern: (2.4G- Head)



天线 2D 方向图: (2.4G-头模)

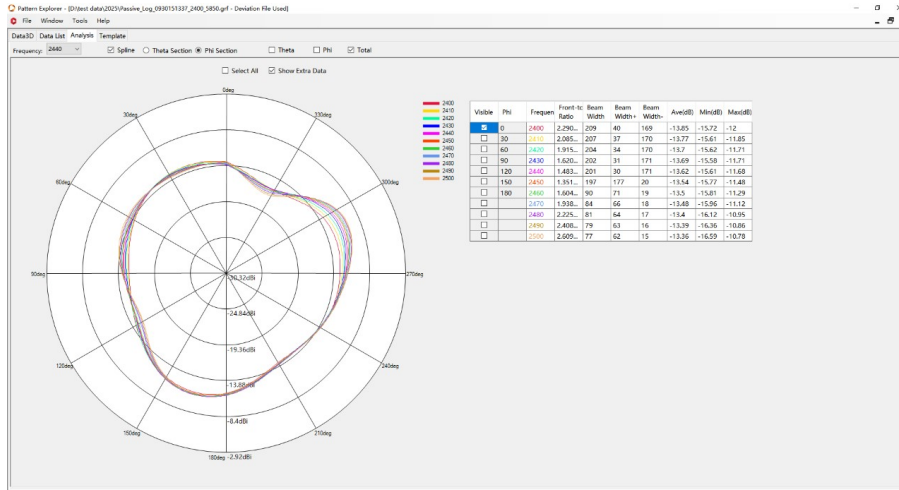
2D Antenna radiation pattern: (2.4G- Head)

Theta=90.00deg

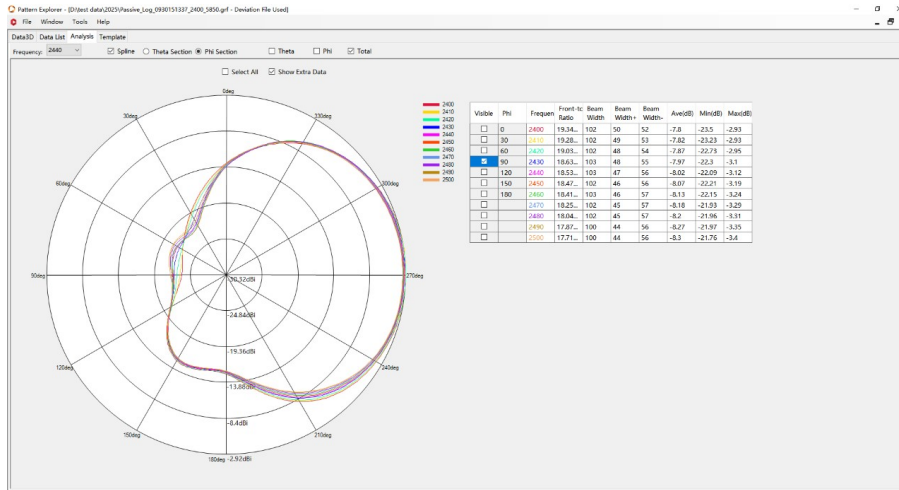




Phi=0.00deg



Phi=90.00deg





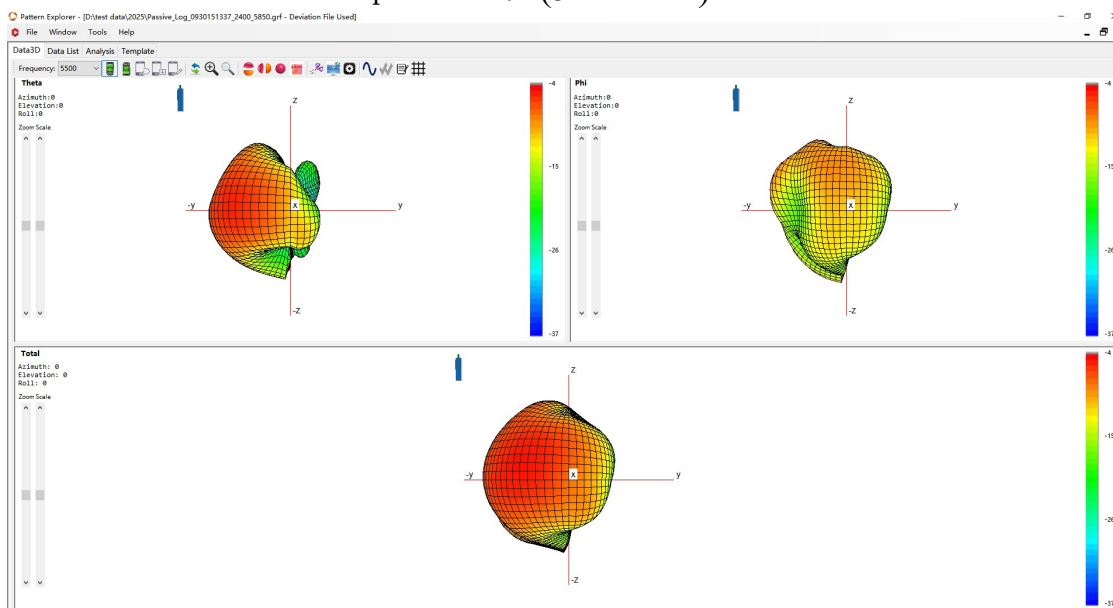
天线效率和增益：（5G-头模）

Antenna efficiency and gain: (5G - Head

5G			
频点 frequency (MHz)	效率 efficiency (dB)	增益 gain (dBi)	效率 efficiency (%)
5150	-10.1	-1.7	9.8
5200	-10.2	-2.0	9.6
5250	-10.5	-2.6	9.0
5300	-10.5	-3.2	8.8
5350	-10.4	-3.6	9.1
5400	-10.4	-3.9	9.2
5450	-10.7	-4.5	8.5
5500	-10.9	-4.7	8.1
5550	-10.9	-4.5	8.2
5600	-11.1	-4.6	7.8
5650	-11.1	-4.5	7.8
5700	-11.3	-4.5	7.4
5750	-11.5	-4.7	7.1
5800	-11.2	-4.5	7.6
5850	-10.4	-3.6	9.2
平均值 AVG	-10.7	-3.8	8.5

天线 3D 方向图：（5G-头模）

3D Antenna radiation pattern: (5G- Head)

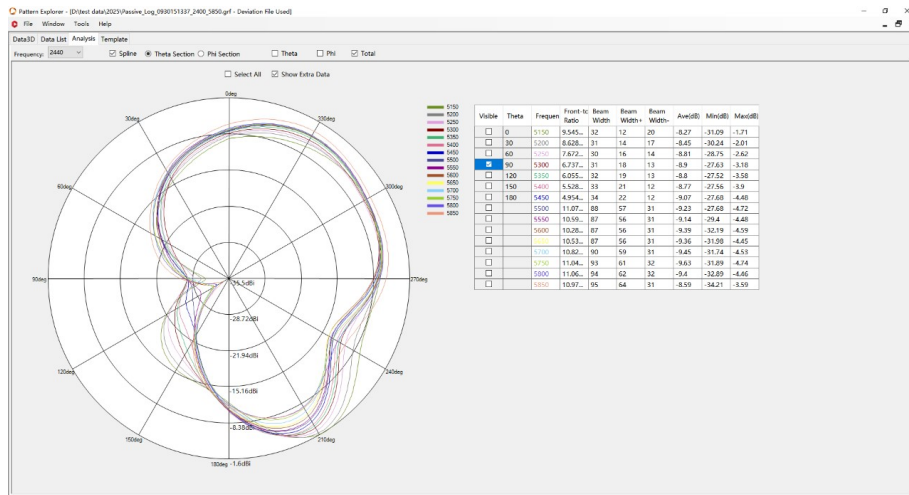




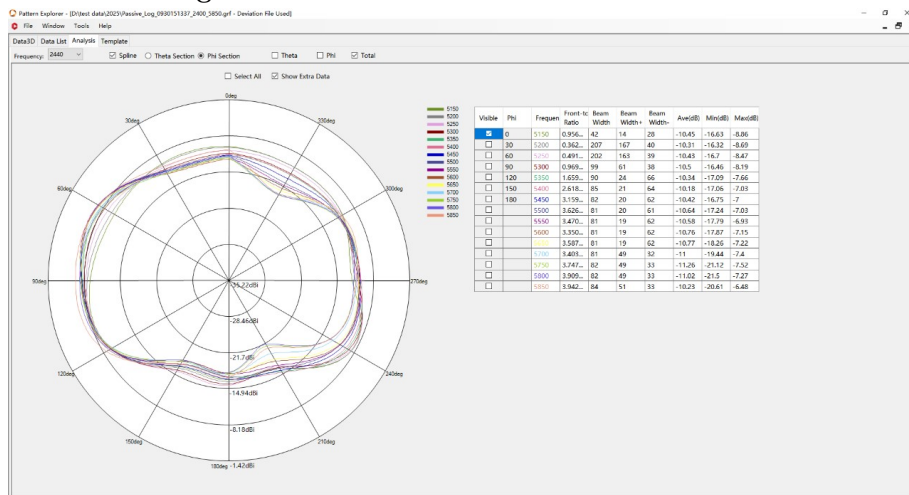
天线 2D 方向图: (5G-头模)

2D Antenna radiation pattern: (5G- Head)

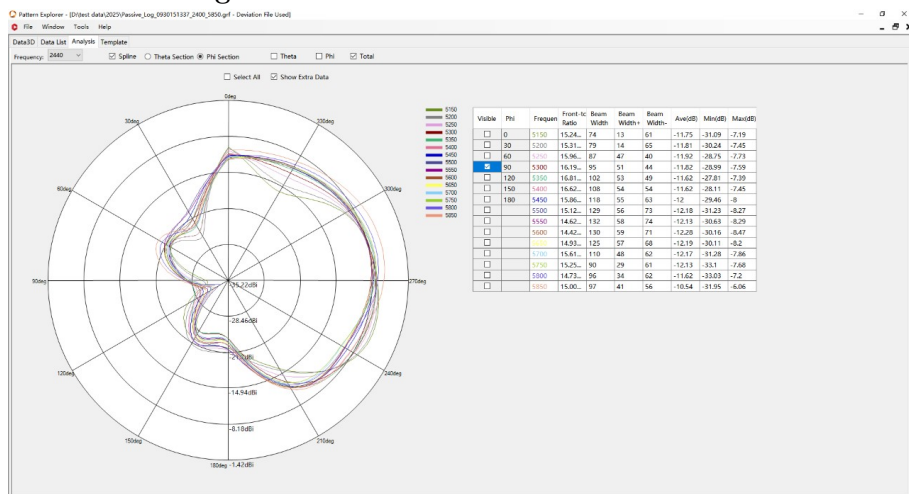
Theta=90.00deg



Phi=0.00deg

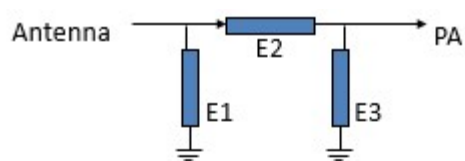


Phi=90.00deg

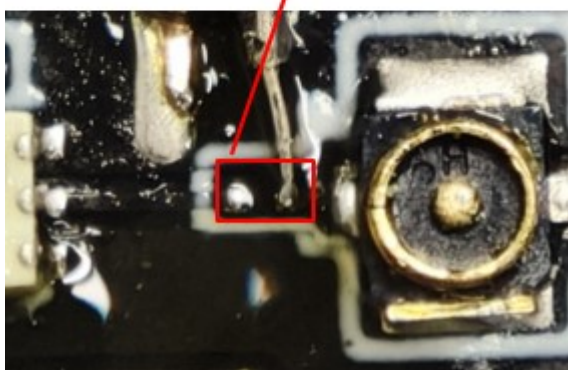




二：天线匹配电路 Antenna matching circuit



编号 number	值 value
E1	NA
E2	0Ω
E3	NA





三：天线结构图档 Antenna structure diagram file

