



样品规格书

客户:	杉川
项目名称:	RB05-A
物料类别:	WIFI 天线组件
天线类型:	FPC 焊接同轴线
规格书版本:	V1.0
日期:	2025.02.27



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变更记录栏			
编制/变更日期	变更理由	变更内容	版本
2025. 02. 27	初版发行	初版发行	V1. 0

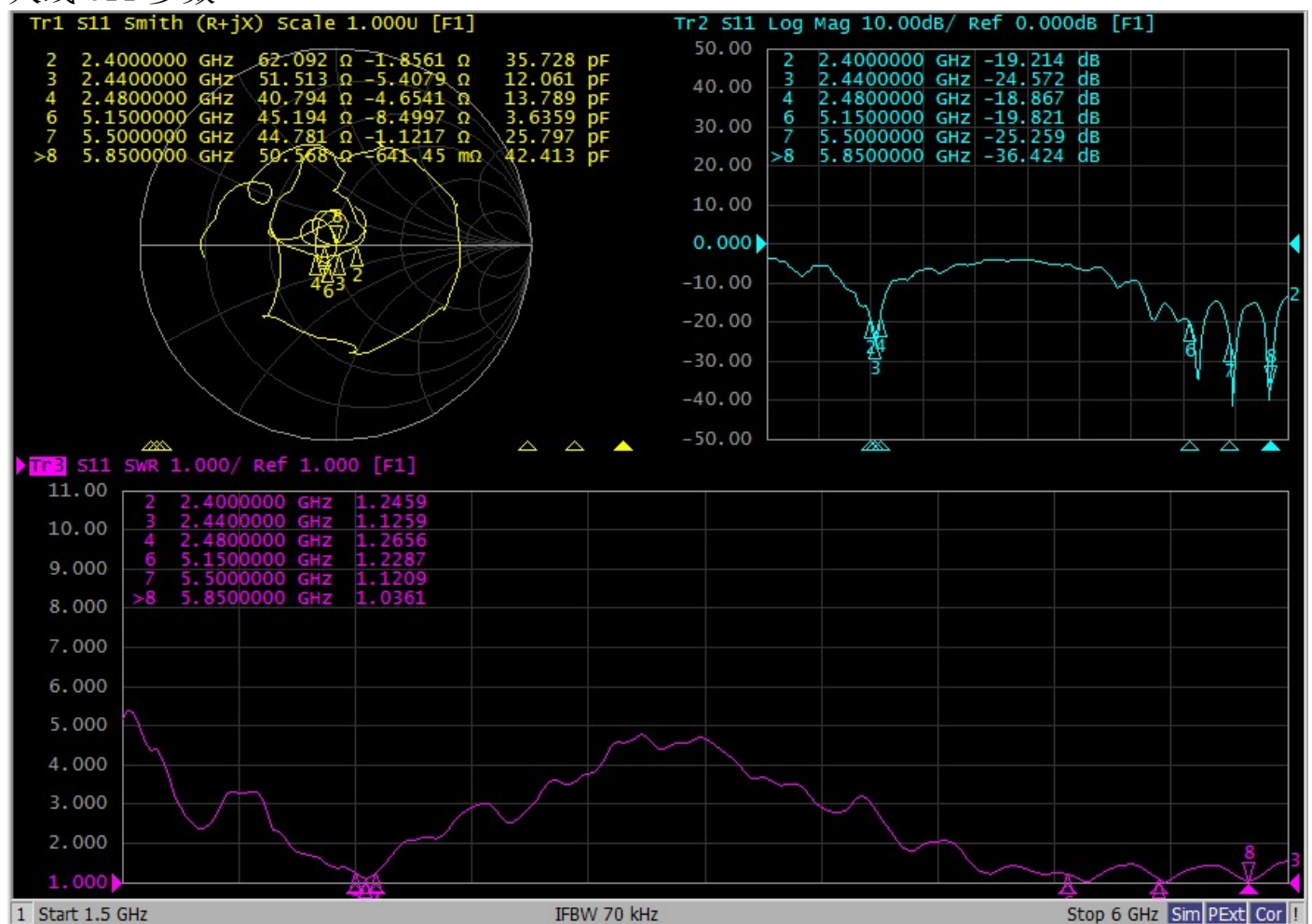


一：无源测试报告



Agilent E5071C

天线 S11 参数





2.4G 天线效率和增益:

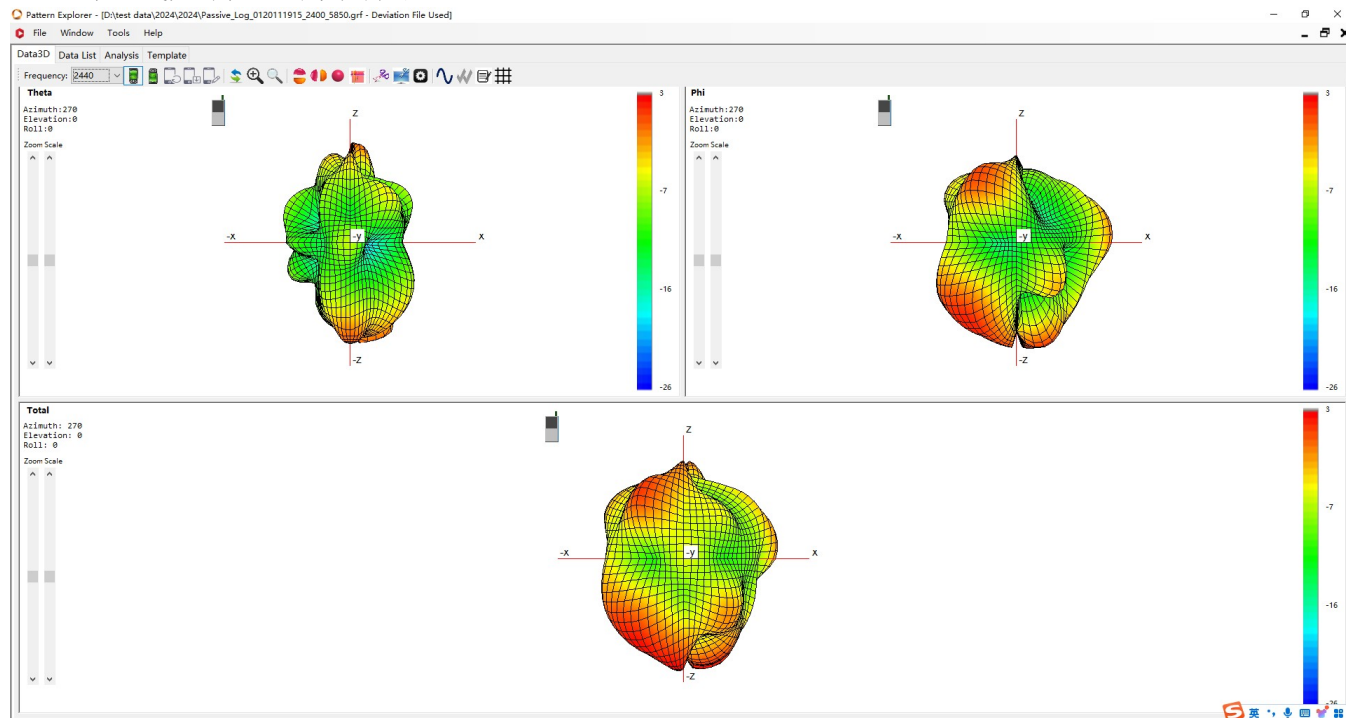
2. 4G			
频点Mhz	增益dBi	效率db	效率%
2400	1.89	-4.03	39.52
2410	2.23	-3.91	40.61
2420	2.45	-3.82	41.45
2430	2.52	-3.93	40.46
2440	2.37	-4.11	38.81
2450	2.22	-4.10	38.93
2460	1.88	-4.23	37.77
2470	1.93	-3.97	40.05
2480	2.20	-3.72	42.47
平均值	2.19	-3.98	40.01

5G 天线效率和增益:

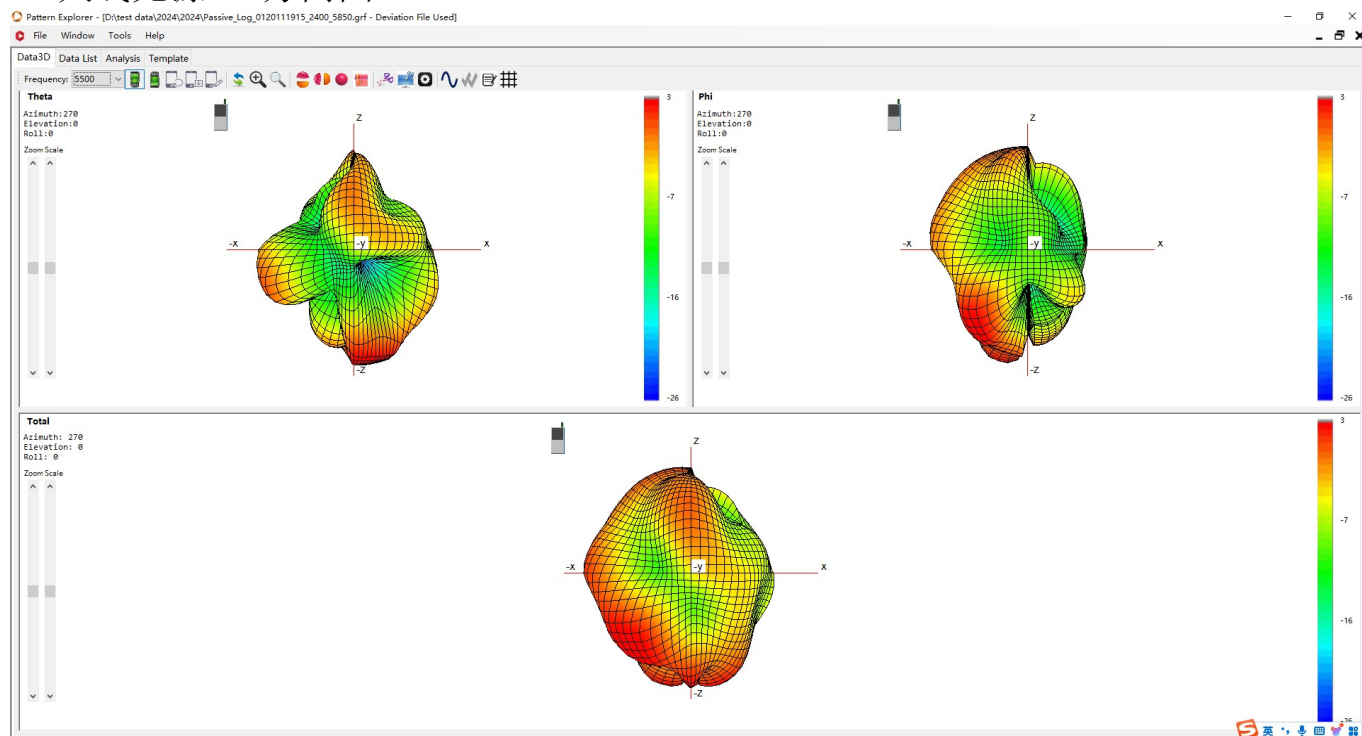
5G			
频点Mhz	增益dBi	效率db	效率%
5150	2.27	-3.67	42.94
5200	2.50	-3.98	39.95
5250	2.50	-3.84	41.31
5300	2.30	-3.30	46.73
5350	1.87	-3.67	42.96
5400	1.77	-3.89	40.84
5450	2.04	-4.12	38.76
5500	2.78	-3.18	48.05
5550	3.13	-3.28	46.96
5600	3.58	-3.38	45.87
5650	3.16	-3.52	44.45
5700	3.15	-3.17	48.23
5750	3.65	-3.01	50.02
5800	2.64	-3.67	42.96
5850	3.08	-3.16	48.34
平均值	2.70	-3.52	44.56



2. 4G 天线无源 3D 方向图:



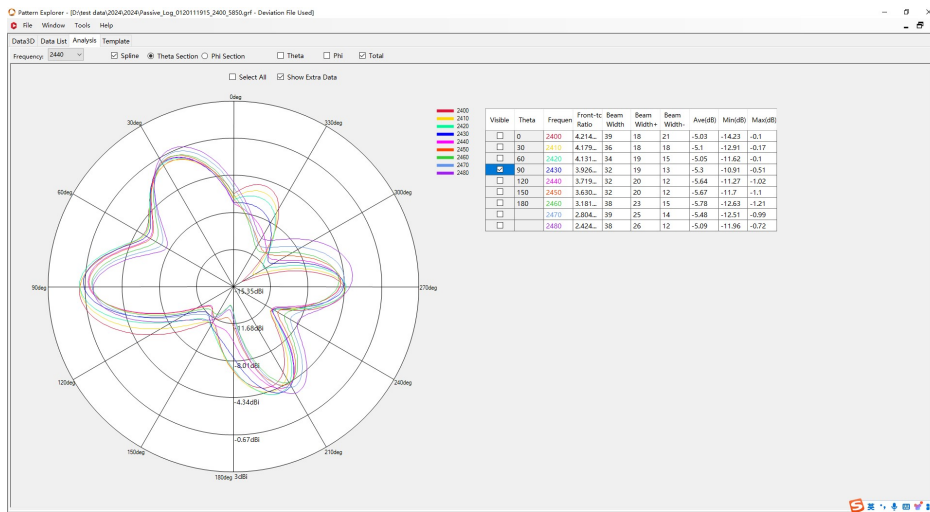
5G 天线无源 3D 方向图:



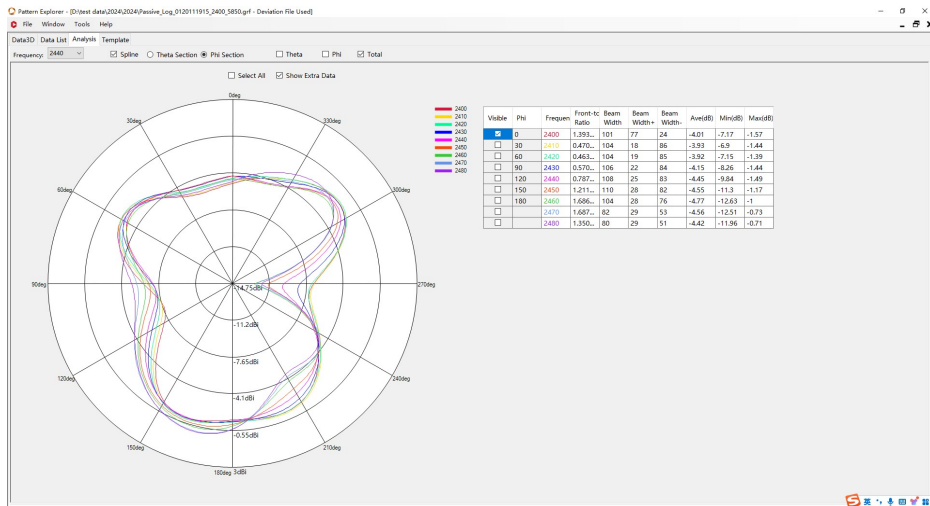


2. 4G 天线无源方向图:

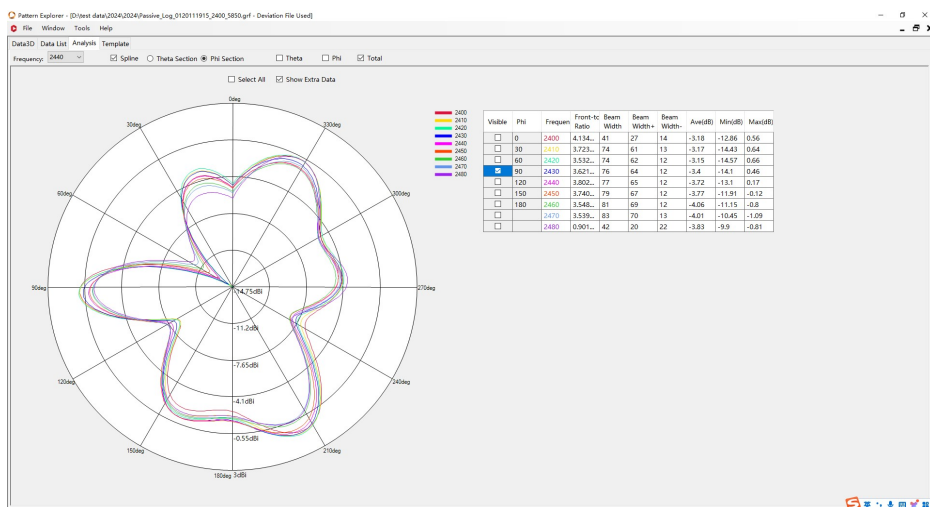
Theta=90°



Phi=0°



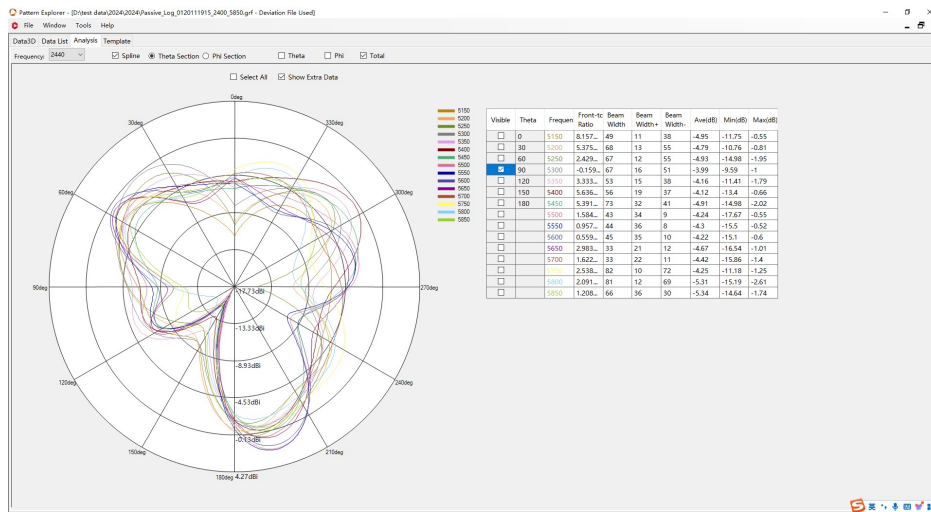
Phi=90°



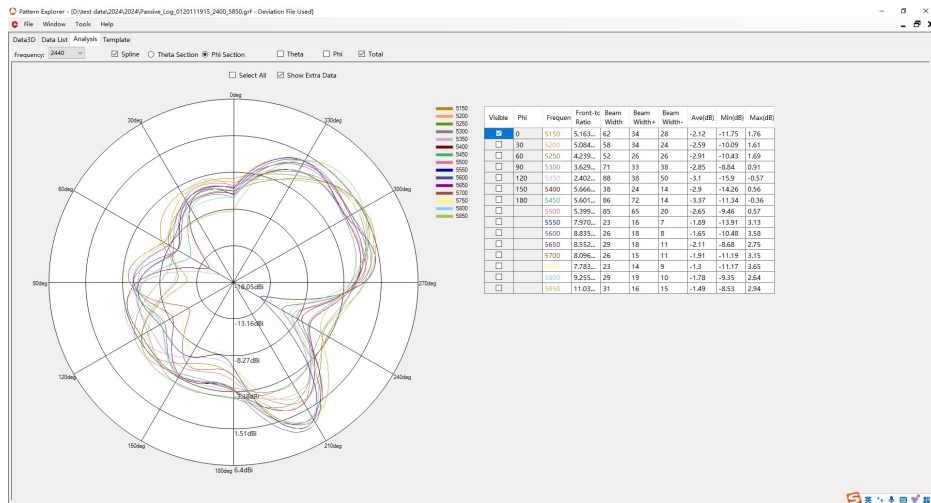


5G 天线无源方向图:

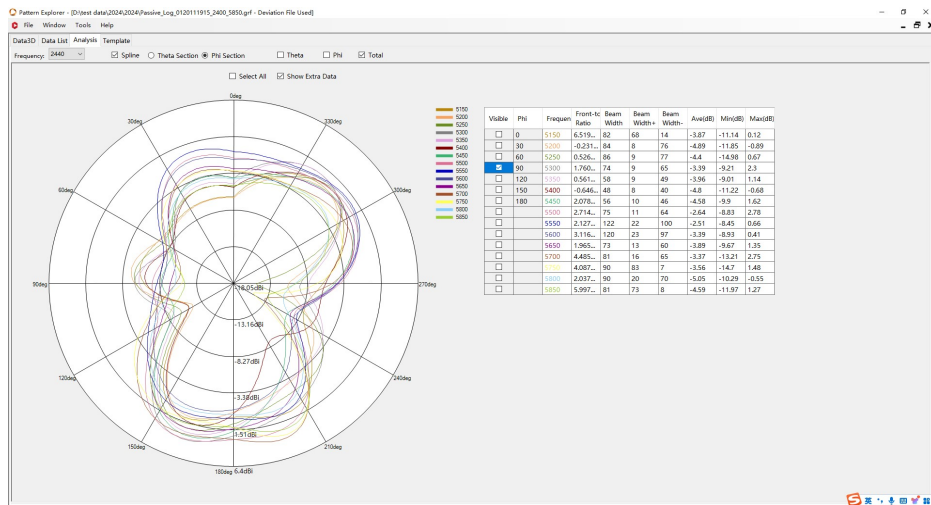
Theta=90°



Phi=0°



Phi=90°





二：天线 3D 暗室数据

静态

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	15.9	-83.3
	CH 7	15.8	-83.8
	CH 13	15.2	-83.8

6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	16.4	-70.1
	CH 7	16.4	-70.1
	CH 13	15.8	-70.5

6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI A	CH 36	13.9	-69.2
	CH 48	14.5	-67.7
	CH 149	11.7	-66.4

动态一档

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	15.6	-82.2
	CH 7	15.9	-82.1
	CH 13	15.1	-82.0

6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	16.5	-69.3
	CH 7	16.5	-69.0
	CH 13	15.8	-69.1

6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI A	CH 36	13.9	-69.0
	CH 48	14.4	-68.1
	CH 149	11.2	-65.6

动态二档

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	15.4	-71.6
	CH 7	16.1	-74.8
	CH 13	15.8	-73.2

6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	16.4	-59.7
	CH 7	16.8	-64.3
	CH 13	16.5	-66.4

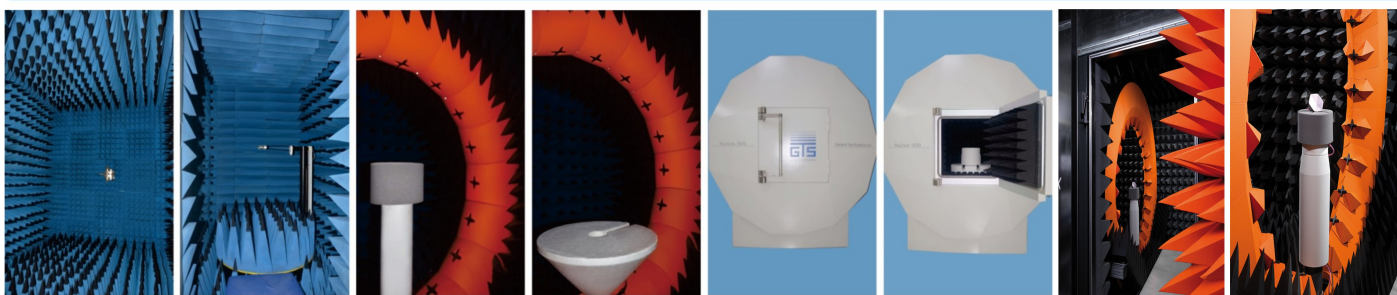
6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI A	CH 36	13.9	-64.5
	CH 48	14.3	-66.1
	CH 149	11.8	-64.0

动态二档 拔掉雷达及右轮连接线

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	15.8	-78.1
	CH 7	16.0	-77.5
	CH 13	15.2	-76.5

6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	16.3	-69.3
	CH 7	16.3	-69.3
	CH 13	15.6	-69.2

6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI A	CH 36	13.3	-69.0
	CH 48	13.8	-66.7
	CH 149	11.4	-65.7



OTA Standard Chambe