



Antenna matching report

Customer: 嘉实通讯

Model Name: DG364

Frequency: BT(2402~2480MHz)

Date: 2024.03.14

Number: 20240314001

Producer: FAE

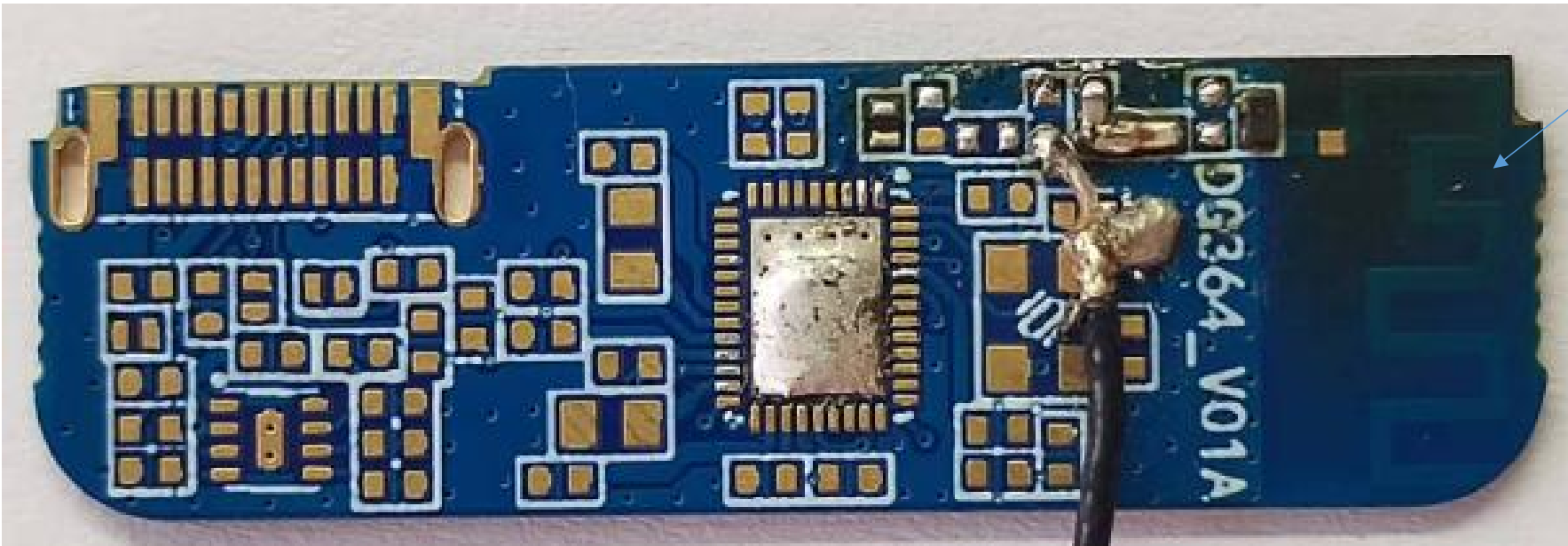


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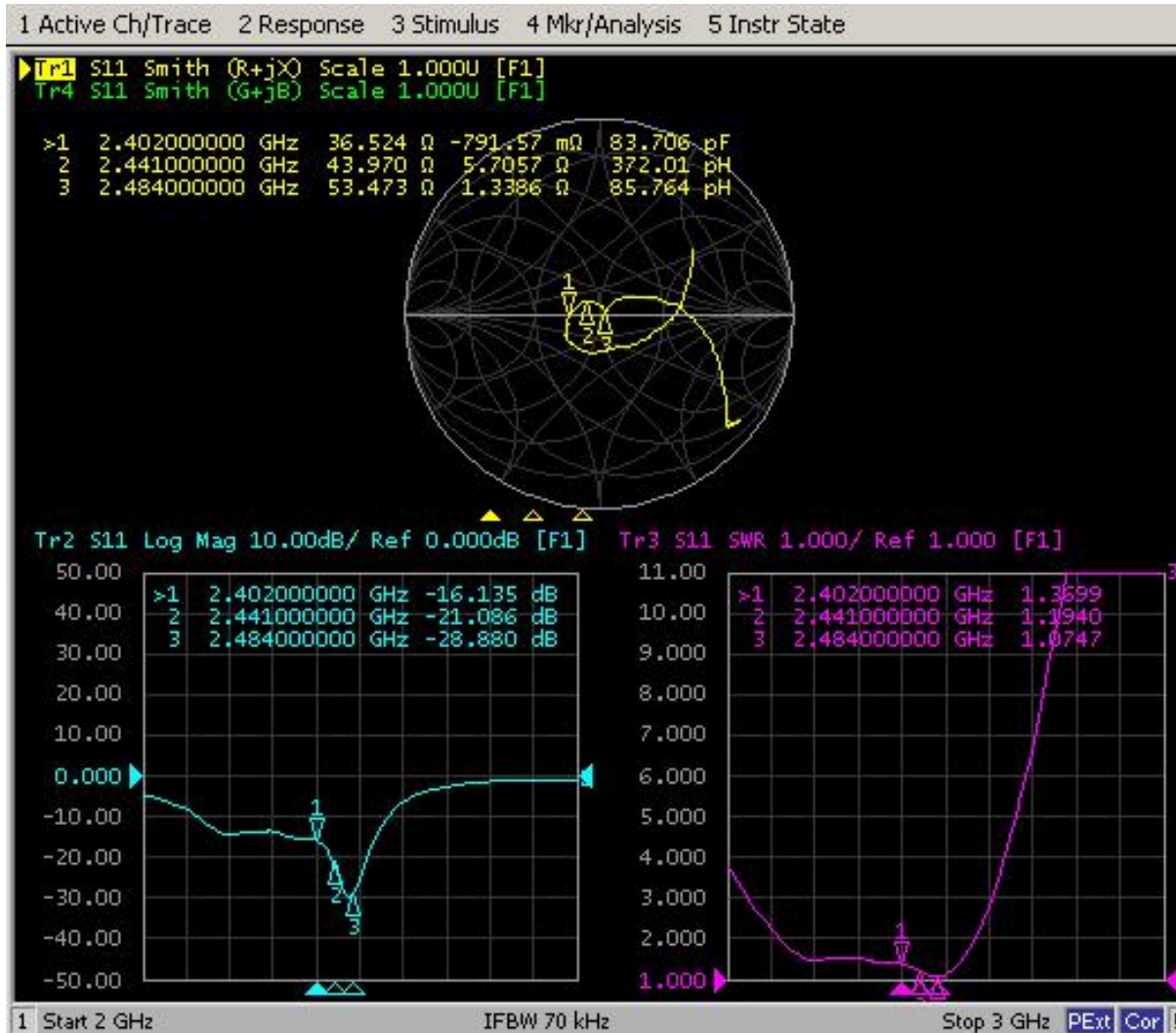
Matching parameters-Customer



PCB Antenna



Antenna S parameters-手机正面

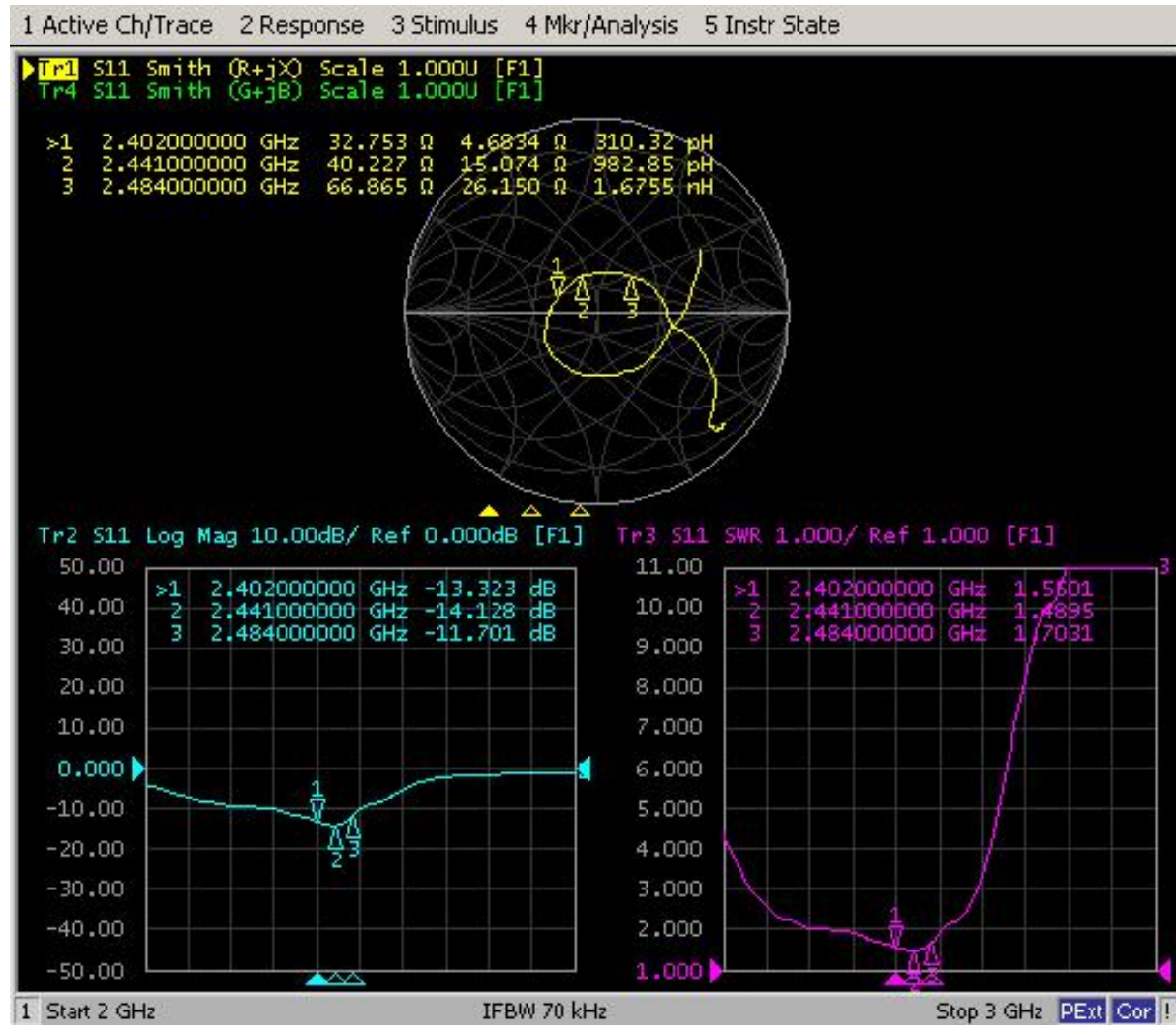


Item	Value		
	2402 (MHz)	2441 (MHz)	2480 (MHz)
Smith(Ω)	36.52	43.97	53.47
Return loss(dB)	-16.13	-21.08	-28.88
VSWR	1.36	1.19	1.07





Antenna S parameters-手机反面

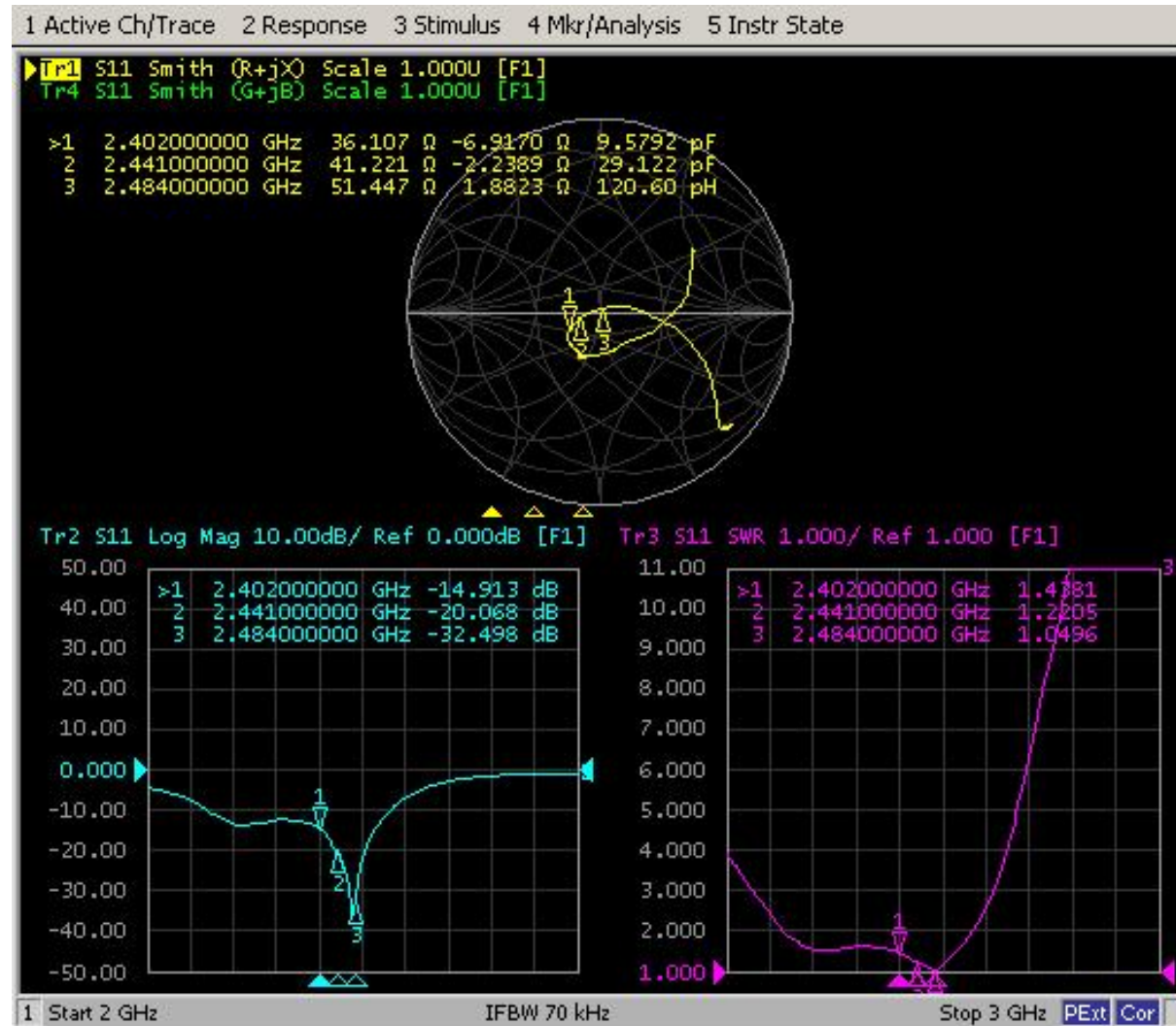


Item	Value		
	2402 (MHz)	2441 (MHz)	2480 (MHz)
Smith(Ω)	32.75	40.22	66.86
Return loss(dB)	-13.32	-14.12	-11.70
VSWR	1.55	1.48	1.70





Antenna S parameters-电脑正面

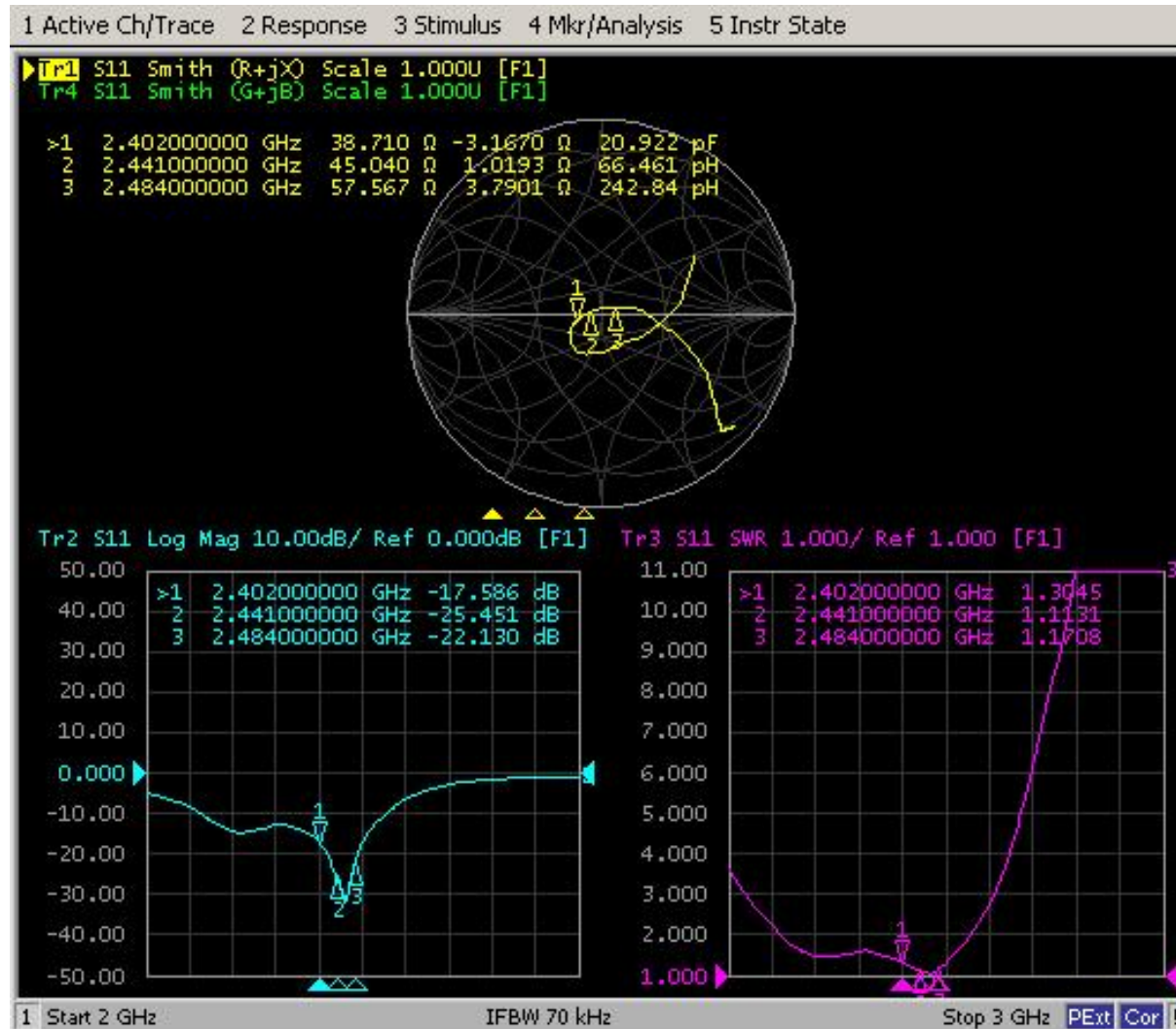


Item	Value		
	2402 (MHz)	2441 (MHz)	2480 (MHz)
Smith(Ω)	36.10	41.22	51.44
Return loss(dB)	-14.91	-20.06	-32.49
VSWR	1.43	1.22	1.04





Antenna S parameters-电脑反面



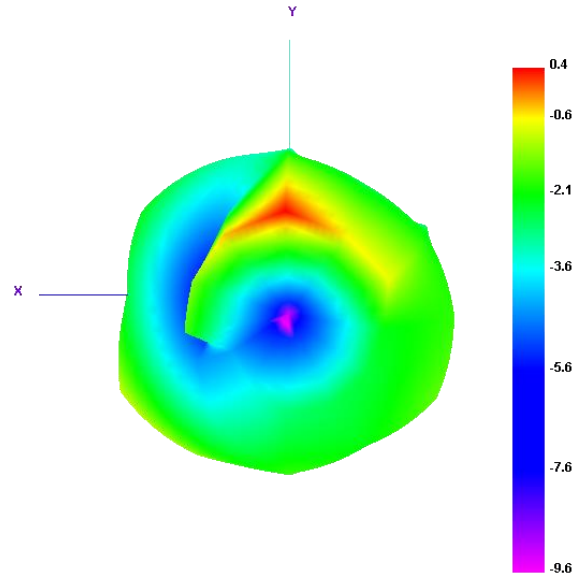
Item	Value		
	2402 (MHz)	2441 (MHz)	2480 (MHz)
Smith(Ω)	38.71	45.04	57.56
Return loss(dB)	-17.58	-25.45	-22.13
VSWR	1.30	1.11	1.17



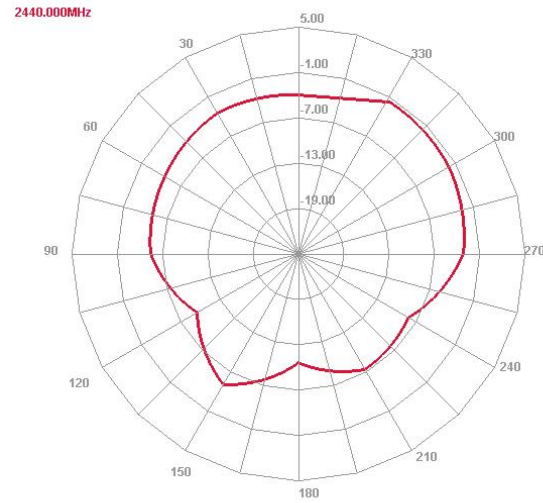


Antenna Passive parameter-手机正面

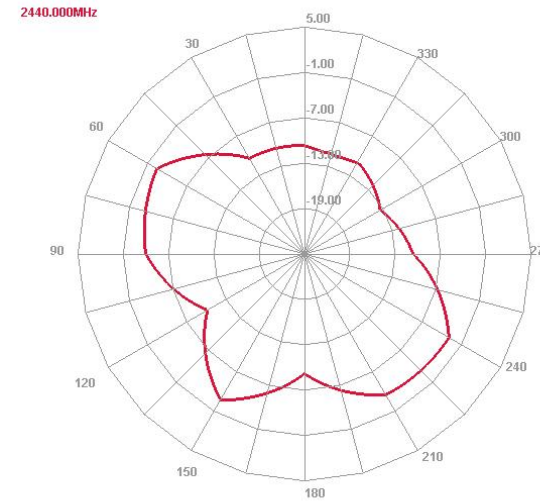
2440.000MHz



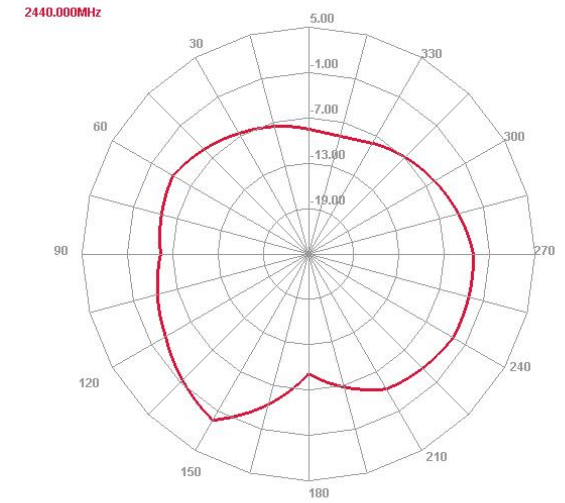
Horizontal



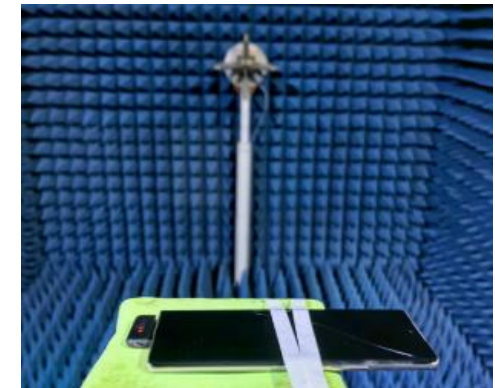
E1 Face



E2 Face



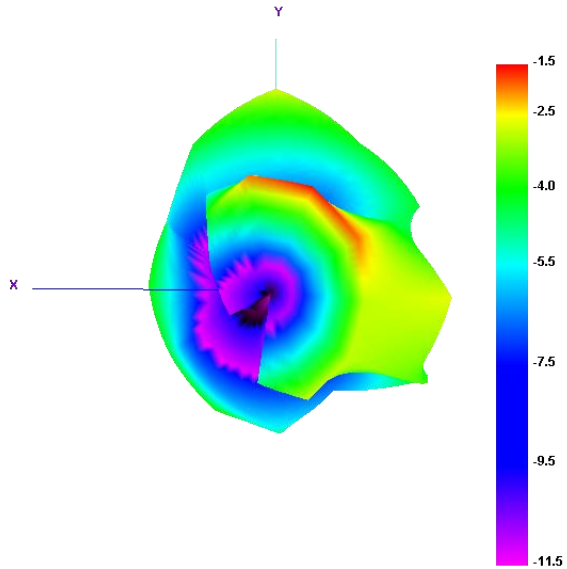
Frequency (MHz)	Efficiency (%)	Mean gain (dBi)	Peak Gain (dBi)
2400	34.24	-4.66	0.23
2440	32.74	-4.85	0.38
2480	30.49	-5.16	0.53



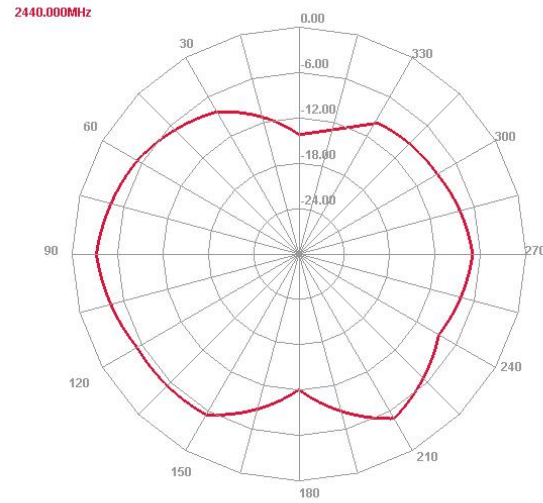


Antenna Passive parameter-手机反面

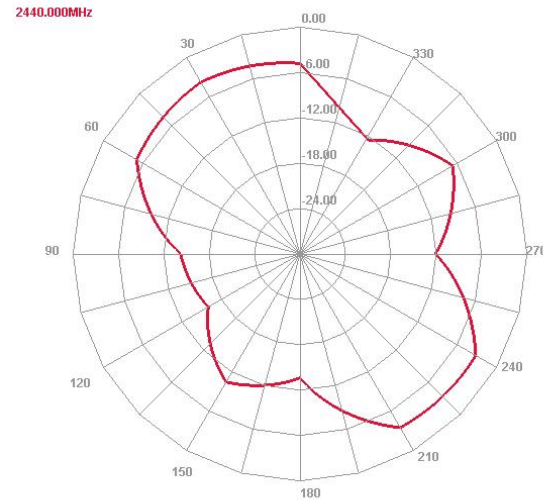
2440.000MHz



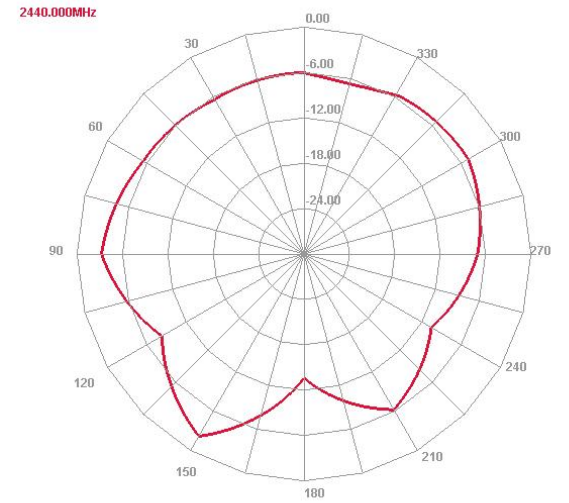
Horizontal



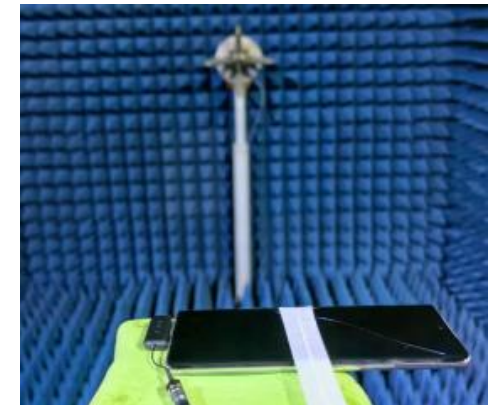
E1 Face



E2 Face

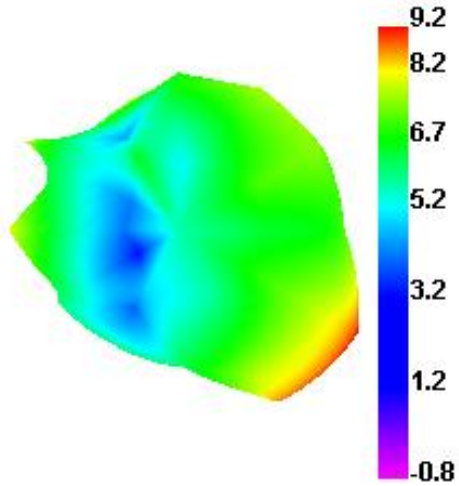


Frequency (MHz)	Efficiency (%)	Mean gain (dBi)	Peak Gain (dBi)
2400	26.6	-5.75	-0.16
2440	22.56	-6.47	-1.51
2480	20.25	-6.93	-2.59

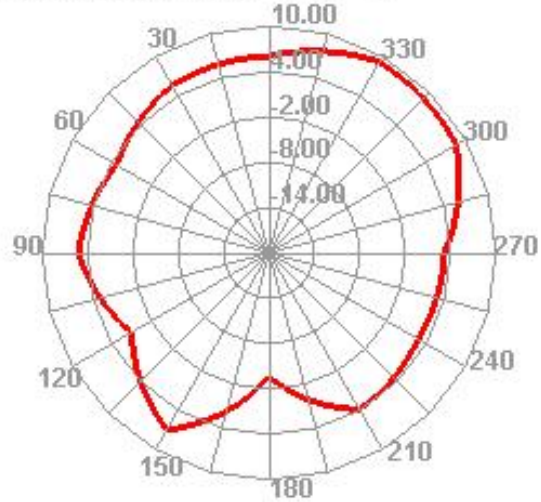




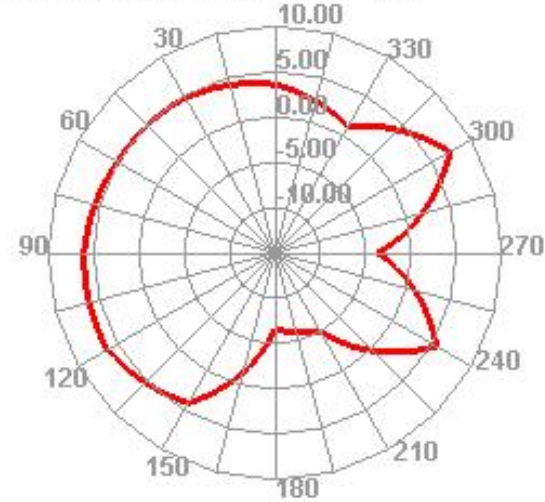
Bluetooth 39 TRP



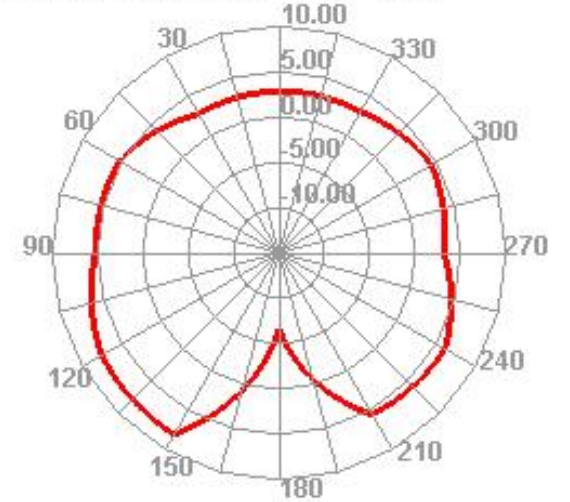
Bluetooth 39 TRP H



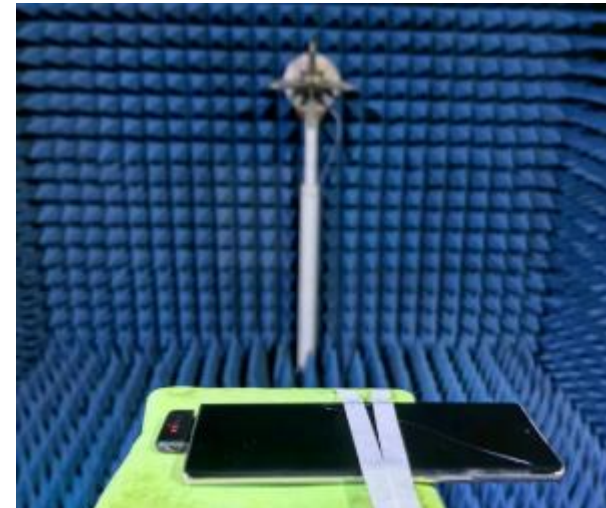
Bluetooth 39 TRP E1



Bluetooth 39 TRP E2

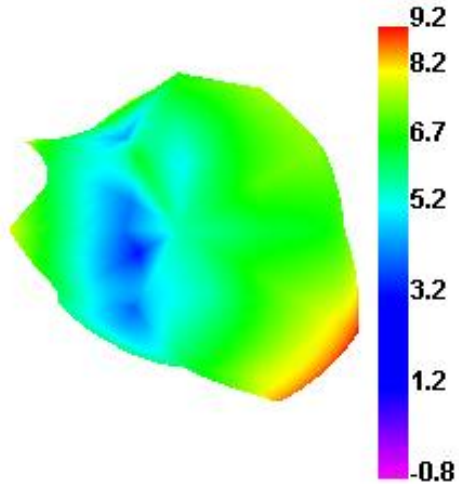


Channel	0	39	78
TRP (dBm)	5.27	5.09	4.91
TIS (dBm)	-88.39	-88.32	-90.76

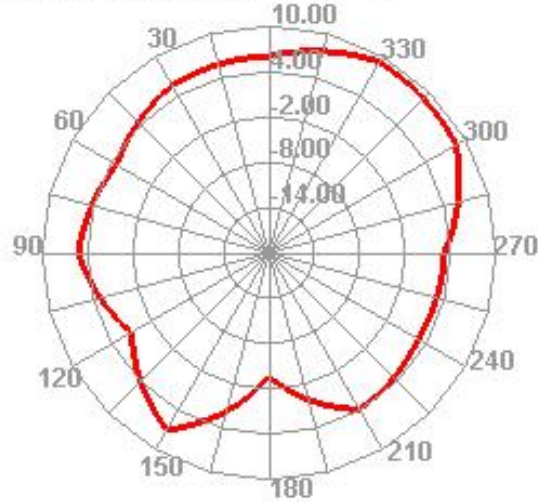




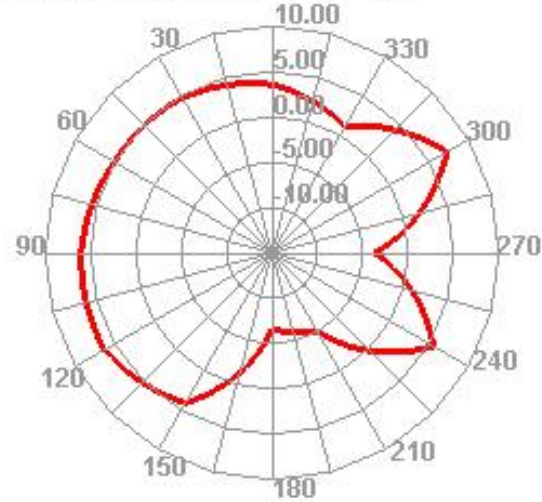
Bluetooth 39 TRP



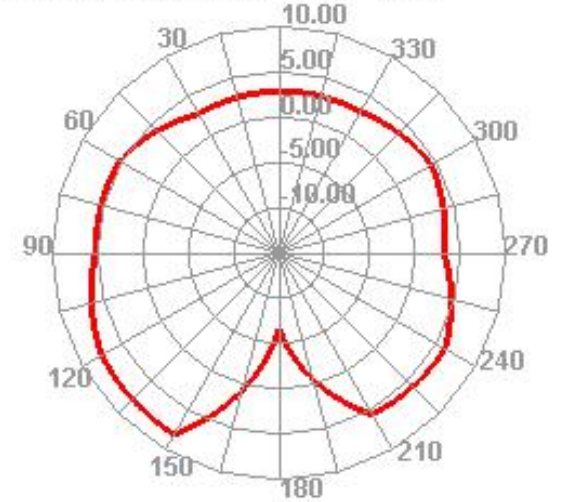
Bluetooth 39 TRP H



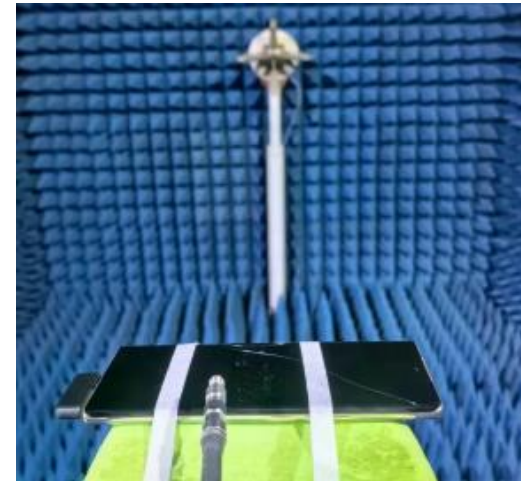
Bluetooth 39 TRP E1



Bluetooth 39 TRP E2



Channel	0	39	78
TRP (dBm)	5.27	5.09	4.91
TIS (dBm)	-88.39	-88.32	-90.76



Thanks

