深圳市沃莱特电子有限公司
Shenzhen World Elite Electronic CO.,LTD

FX233 Antenna test report_V3.1

Test date: 2026/1/29

Purpose of this report: Verify antenna performance

Conclusions of this report: 1.The antenna efficiency is above 45

2.The antenna VSWR less than 2

Type	Frequency band	Material	Performance requirement
BT	2400-2480MHz	FPC antenna	

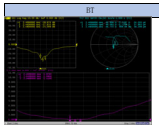
Antenna matchinging circuit



BT	
Element	
E1(0402)	NC
E2(0402)	2.2PF
E3(0402)	0.7PF

Antenna matching impedance test

BT



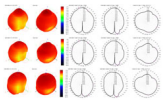
Freq (MHz)	2400	2440	2480
SWR	1.07	1.08	1.11
Log Mag	-28.67	-27.83	-25.01

Antenna matching effeciency

BT		
Frequency (MHz)	Gain (dBi)	Effciency (%)
2400	2.75	**69.18%**
2410	2.87	**69.80%**
2420	3	**69.40%**
2430	3	**69.80%**
2440	2.87	**69.90%**
2450	2.72	**61.00%**
2460	2.45	**61.40%**
2470	2.45	**63.70%**
2480	2.53	**63.30%**
2490	2.64	**64.10%**
2500	2.73	**65.90%**

Antenna matching 2D pattern

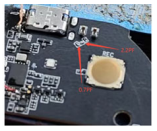
BT



Antenna matching OTA date

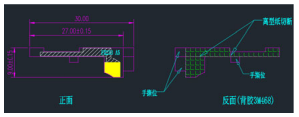
BT		
Channels	TRP(dBm)	TIS(dBm)
0	9.04	-93.88
39	8.82	-93.01
78	9.28	-93.9

Antenna matching parameter position





Antenna size



Prototype and test images

