

MB2710 (JX312-01) Antenna Test Report

MODEL NAME	MB2710
MCSLogic P/N	
No.	MODEL
1	MB2710
BLUETOOTH	2402-2480MHz



Hardware version: V2.0

ANTENNA SPECIFICATION

1. MODEL: MB2710

2. APPLICATION:

This specification is provided for Bluetooth PCB Pattern ANTENNA.

3 ANTENNA used condition

■ Portable ■ Fixing ■ Movement ■ Out-door ■ In-door ■ Etc()

4. ANTENNA Drawing

Attached : #4. Antenna Drawing paper

5. TRP/TIS

Attached : #3. TRP/ TIS

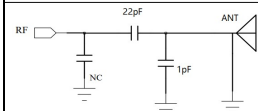
6. Electrical specification and performance

No.	ELECTRICAL DATA	SPECIFICATIONS	REMARK
1	FREQUENCY RANGE	2400 ~ 2480 MHz	NOMINAL
2	IMPEDANCE	50 Ω	
3	V. S. W. R	less than 2	Attached: #1, VSWR
4	PEAK GAIN (MAX)	1.73	Attached: #2, Radiation efficiency
5	RADIATION PATTERN	OMNI - DIRECTIONAL	
6	POLARIZATION	LINEAR	

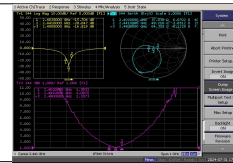
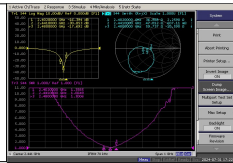
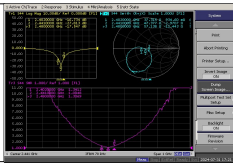
7. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
1	Antenna Type	PIFA Type	
2	Matching Value	1pF (Shunt)	GND Feeding
3	Matching Value	22pF (Series)	
4	Dimension (D X B X H)	19.6 X 6.3 X 1.0T	

8. IMPEDANCE MATCHING

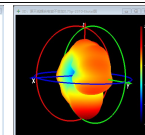
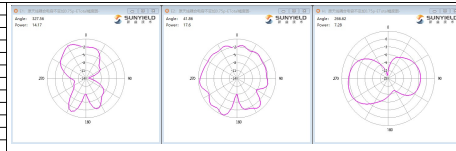


#1. VSWR

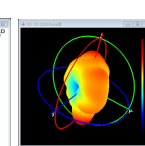
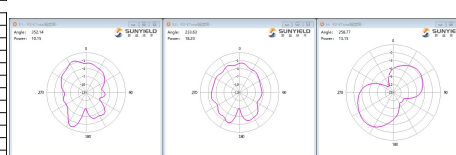


#2. Radiation efficiency

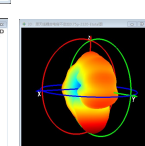
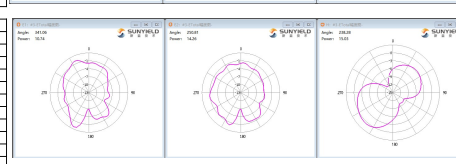
Frequency (MHz)	s	Efficiency (dB)	Efficiency (%)
2400	1.33	-2.18	58.53
2410	1.26	-2.05	60.44
2420	1.51	-1.93	62.13
2430	1.54	-1.81	63.91
2440	1.61	-1.7	65.65
2450	1.67	-1.63	66.78
2460	1.58	-1.62	66.87
2470	1.51	-1.62	66.81
2480	1.42	-1.72	65.22
2490	1.34	-1.91	62.4



Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.71	-2.2	58.31
2410	1.62	-2.08	59.96
2420	1.69	-1.93	62.05
2430	1.73	-1.81	63.86
2440	1.72	-1.72	65.28
2450	1.64	-1.65	66.35
2460	1.6	-1.78	64.43
2470	1.54	-1.87	62.95
2480	1.48	-1.98	61.38
2490	1.3	-2.12	59.32



Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.34	-2.12	59.25
2410	1.45	-2.06	60.14
2420	1.65	-1.97	61.32
2430	1.64	-1.91	62.35
2440	1.68	-1.85	63.27
2450	1.62	-1.68	65.84
2460	1.49	-1.74	64.84
2470	1.62	-1.76	64.57
2480	1.68	-1.91	62.28
2490	1.34	-1.96	61.58



#3. TRP/ TIS

1	TRP	Frequency (MHz)	Power (dBm)	2	TRP	Frequency (MHz)	Power (dBm)	3	TRP	Frequency (MHz)	Power (dBm)
		2402	9.65			2402	8.57			2402	8.65
		2441	9.75			2441	8.95			2441	9.07
		2480	9.56			2480	8.78			2480	9.05
1	TIS	Frequency (MHz)	Sensitivity (dBm)	2	TIS	Frequency (MHz)	Sensitivity (dBm)	3	TIS	Frequency (MHz)	Sensitivity (dBm)
		2402	-92.66			2402	-92.95			2402	-93.06
		2441	-92.79			2441	-93.23			2441	-93.14
		2480	-92.72			2480	-93.14			2480	-93.23

#4. Antenna Drawing Paper

