

MB2710S (JX312-02) Antenna Test Report

MODEL NAME	MB2710S		
MCSLogic P/N			
No.	MODEL	FREQUENCY	
1	MB2710S	BLUETOOTH	2402-2480MHz



Hardware version: V3.0

ANTENNA SPECIFICATION

1. MODEL: MB2710S

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

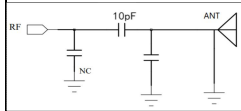
Satisfied next data with real used or similar environment conditions.

No.	ELECTRICAL DATA	SPECIFICATIONS	REMARK
1	FREQUENCY RANGE	2400 ~ 2490 MHz	
2	IMPEDANCE	50 Ω	NORMAL
3	V. S. W. R	less than 2	Attached:#1.VSWR
4	PEAK GAIN (dBi)	2.9	Attached:#2.Radiation efficiency
5	RADIATION PATTERNS	OMNI - DIRECTIONAL	
6	POLARIZATION	LINEAR	

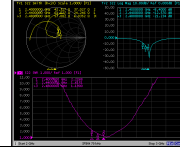
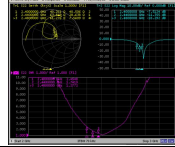
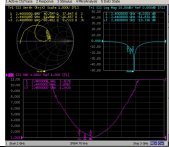
7.Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
1	Antenna Type	PCBA Type	
2	Matching Value	50Ω (Series)	
3	Matching Value	50 (Shunt)	
4	Dimension (D X H X W)	15.6 X3.6 X 1.0T	3D0 Feeding

8. IMPEDANCE MATCHING

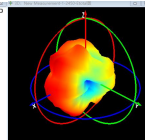


#1. VSWR

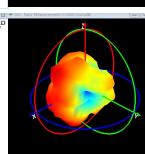


#2. Radiation efficiency

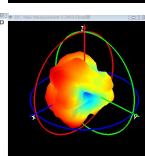
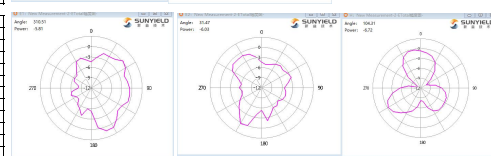
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.85	-3.51	44.55
2410	1.79	-3.18	48.08
2420	1.65	-3.02	49.89
2430	1.57	-2.87	51.69
2440	1.54	-2.74	53.16
2450	1.62	-2.6	54.9
2460	1.91	-2.45	56.92
2470	2.2	-2.26	59.42
2480	2.53	-2.05	62.3
2490	2.9	-1.85	65.31



Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.62	-3.59	43.72
2410	1.96	-3.26	47.17
2420	1.8	-3.13	48.69
2430	1.69	-2.99	50.26
2440	1.63	-2.89	51.46
2450	1.68	-2.76	52.98
2460	1.88	-2.59	55.04
2470	2.1	-2.4	57.5
2480	2.44	-2.19	60.34
2490	2.78	-1.97	63.49



Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.66	-3.72	42.45
2410	1.59	-3.31	46.62
2420	1.45	-3.14	48.54
2430	1.35	-2.96	50.6
2440	1.32	-2.84	52
2450	1.48	-2.68	53.85
2460	1.72	-2.52	55.84
2470	1.99	-2.35	58.15
2480	2.36	-2.15	61.02
2490	2.7	-1.96	63.61



#3. TRP/ TIS

1	TRP	Frequency (MHz)	Power (dBm)	2	TRP	Frequency (MHz)	Power (dBm)	3	TRP	Frequency (MHz)	Power (dBm)
		2402	8.65			2402	8.68			2402	8.59
		2441	9.36			2441	9.49			2441	9.7
		2480	9.63			2480	9.72			2480	9.74
	TIS	Frequency (MHz)	Sensitivity (dBm)		TIS	Frequency (MHz)	Sensitivity (dBm)		TIS	Frequency (MHz)	Sensitivity (dBm)
		2402	-92.51			2402	-92.09			2402	-92.68
		2441	-92.55			2441	-92.66			2441	-93.04
		2480	-92.28			2480	-92.68			2480	-92.53

#4. Antenna Drawing Paper

