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Antenna Test Report

BTU Antenna test report

Version 1.0.0 Date：2021-05-07 NO：0000000001

Product Name:	BTU
Antenna Type:	PCB antenna
Writer:	Chenlei
Maximum	Gain：1.08dBi
	Efficiency:35.73%

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1. General Description

EUT Name	BTU Antenna
Wireless type	BLE
Antenna Type	PCB antenna
Dimensions	Appendix A

2. Technical Information

Frequency Range	2402MHz~2480MHz
Test Frequency	2400,2410.....2500MHz

3. Test Standards

Identity	Document Title
IEEE 149-1979	IEEE Standard Test Procedures for Antennas

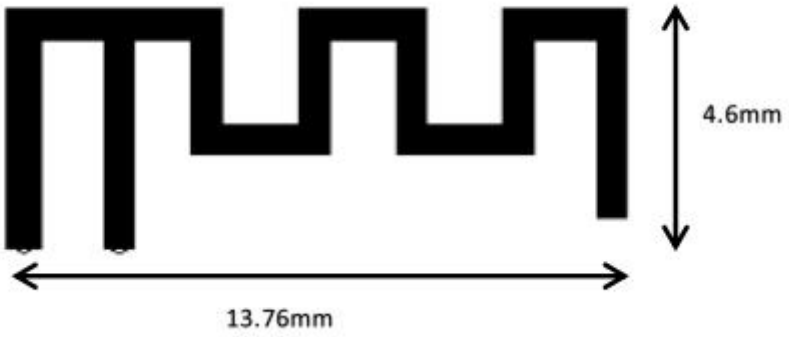
4. Test Item

Report Section	Description
Appendix B	S11/VSWR
Appendix C	Gain and Efficiency
Appendix D	Radiation Pattern（1D and 3D）

5. Test Photo

Report Section	Description
Appendix E	Test Setup Photo

Appendix A Antenna Dimension



Appendix B S11/VSWR

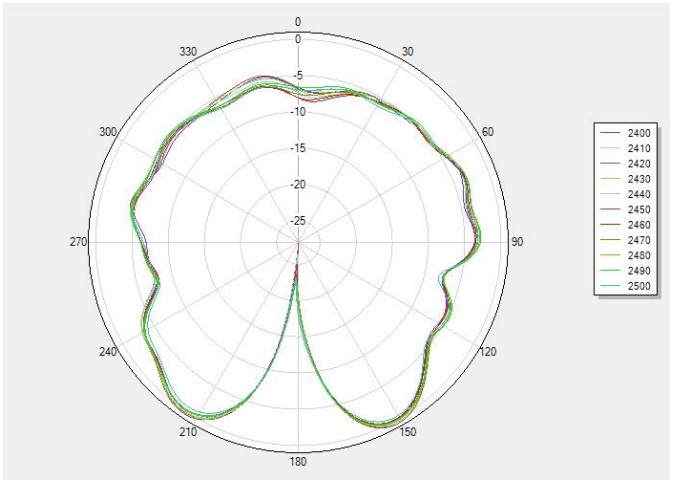
Frequency (MHz)	2400	2450	2500
Return Loss	-11.2	-13.12	-10.1
VSWR	1.8	1.6	1.9

Appendix C Gain and Efficiency

Frequency (MHz)	Efficiency(%)	Gain（dBi)
2400	35.24	1.02
2410	35.73	1.08

2420	35.24	1.01
2430	34.91	0.81
2440	33.96	0.73
2450	32.14	0.54
2460	32.06	0.65
2470	32.51	0.72
2480	33.96	0.76
2490	33.19	0.67
2500	30.97	0.14

Appendix D Radiation Pattern(1D and 3D)


0
30
60
90
120
150
180
210
240
270
300
330
0
-5
-10
-15
-20
-25
2400
2410
2420
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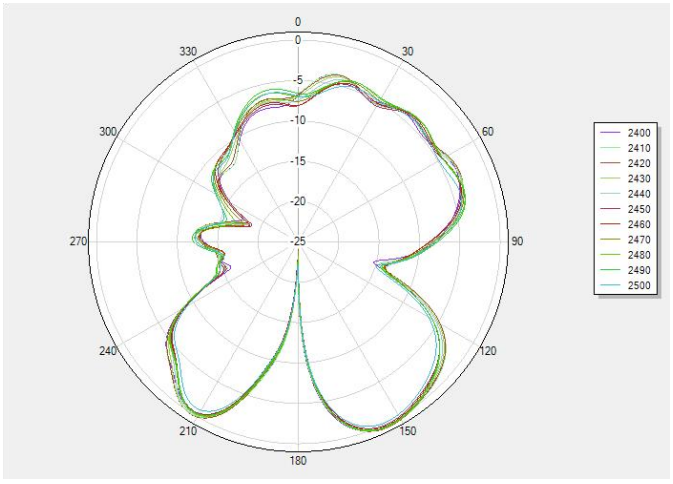
2450
2460
2470
2480
2490
2500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270
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0
-5
-10
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2400
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2430
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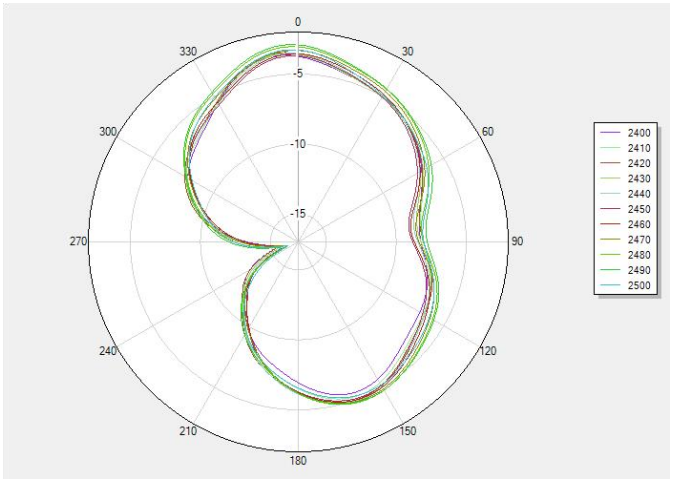
2460
2470
2480
2490
2500


0
30
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210
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330
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-10
-15
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2420
2430
2440
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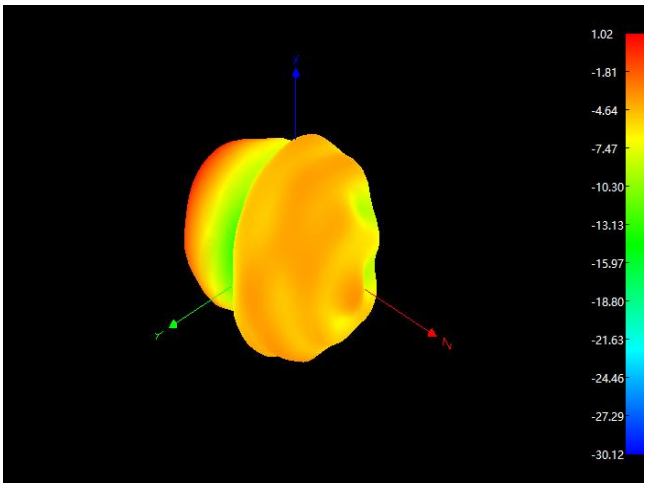
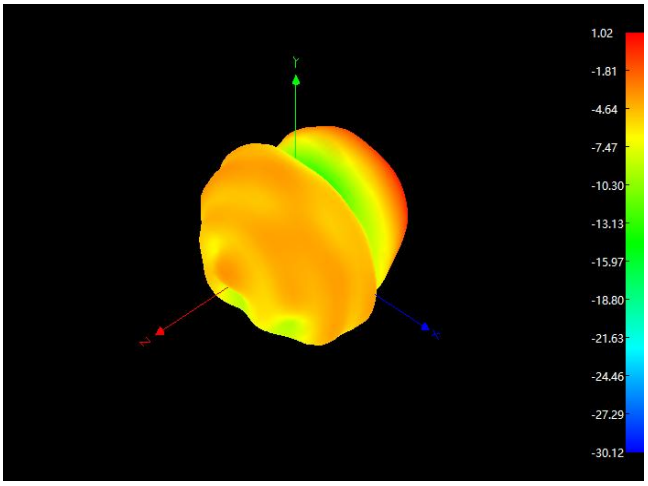
2460
2470
2480
2490
2500


1.02
-1.81
-4.64
-7.47
-10.30
-13.13
-15.97
-18.80
-21.63
-24.46
-27.29
-30.12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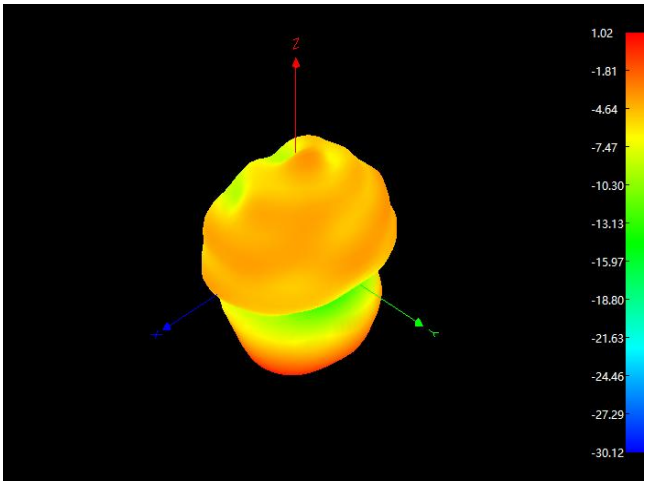
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-4.64
-7.47
-10.30
-13.13
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-18.80
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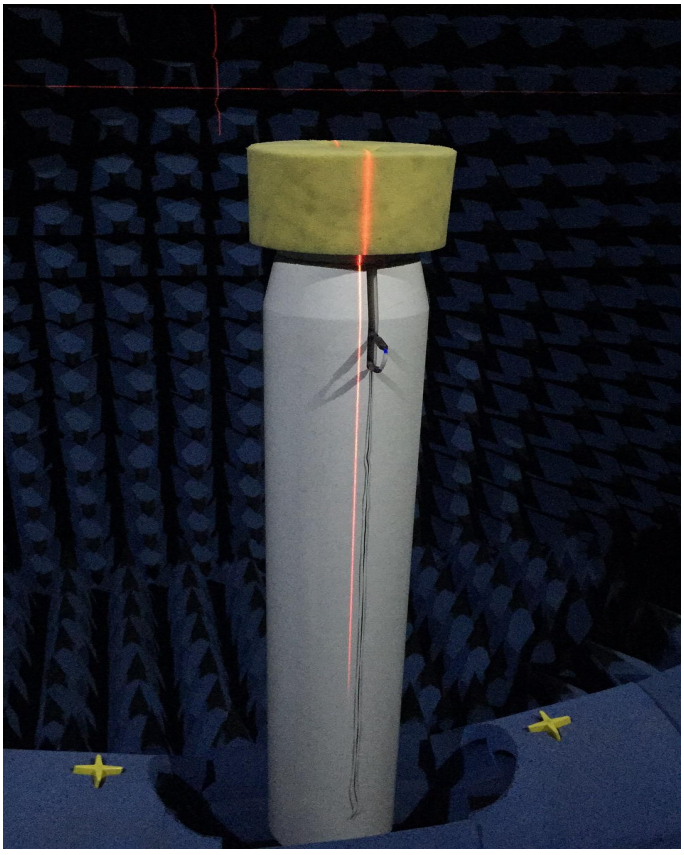
-27.29
-30.12

Appendix E Test Setup Photo



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