



Product Specification

P/N:

BT Antenna

Rev.:

A

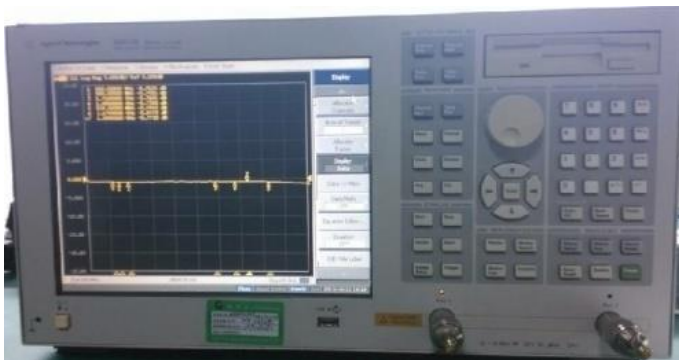
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1. Product Application

Terminal of the antenna products can only be used for BT antenna.

2. The test environment, equipment

Item	Description	Test Condition	Requirement
2.1	Passive testing	The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices.	VSWR: 2400-2500MHz $\leq$ 2
		Test equipment	
			
Item	Description	Test Condition	
2.2	Active test	The antenna is tested within the cell mainboard provided by clients. Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.	
2.3	Microwave	Test equipment	



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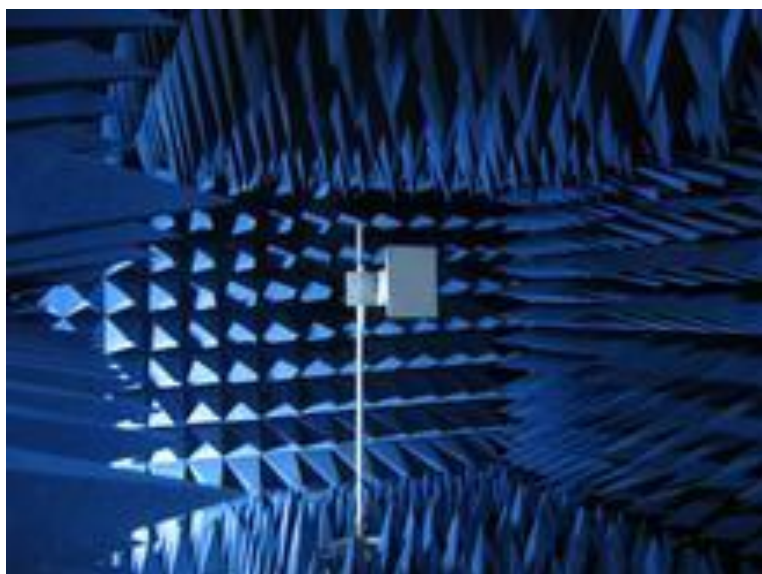
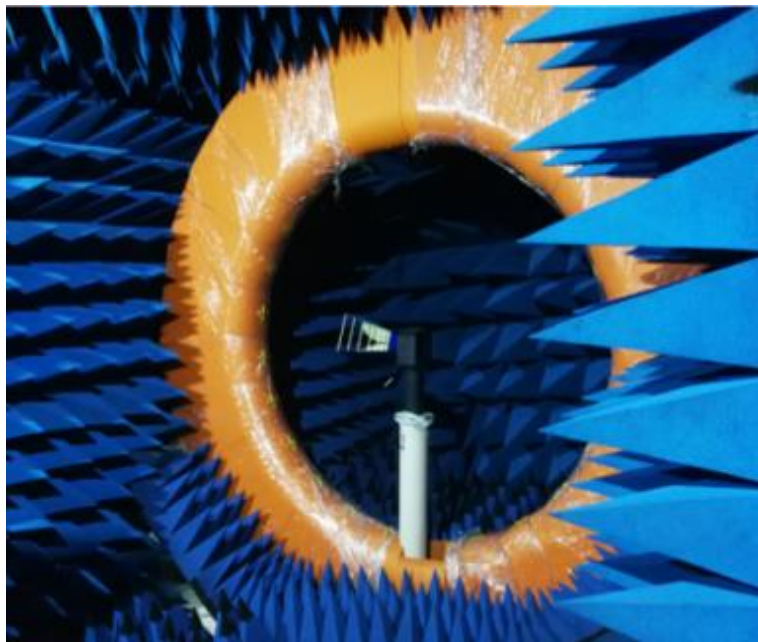
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Anechoic
chamber
(Satimo&ETS
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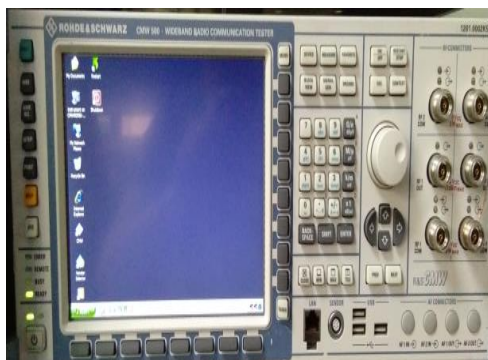
CMW500

Agilent5071B

AgilentE4405B

Agilent8960

2.4





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3. BT Antenna description

3.1 BT Technology Parameters

BT Frequency Range: 2400MHz-2500MHz

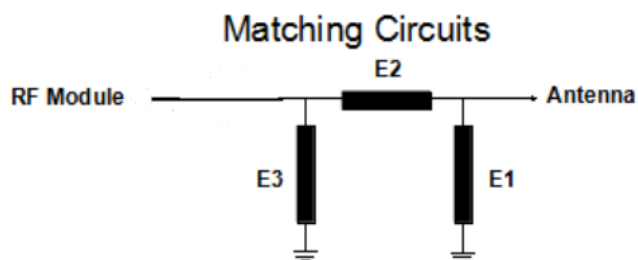
BT antenna type: PCB Antenna

Operating Humidity: 85% R.H.MAX

Temperature Rating: 5°C ~ +40°C

3.2 BT matching circuit

Element	Value
E1(0402)	NC
E2(0402)	1.5nH
E3(0402)	NC
Parameter not changed	





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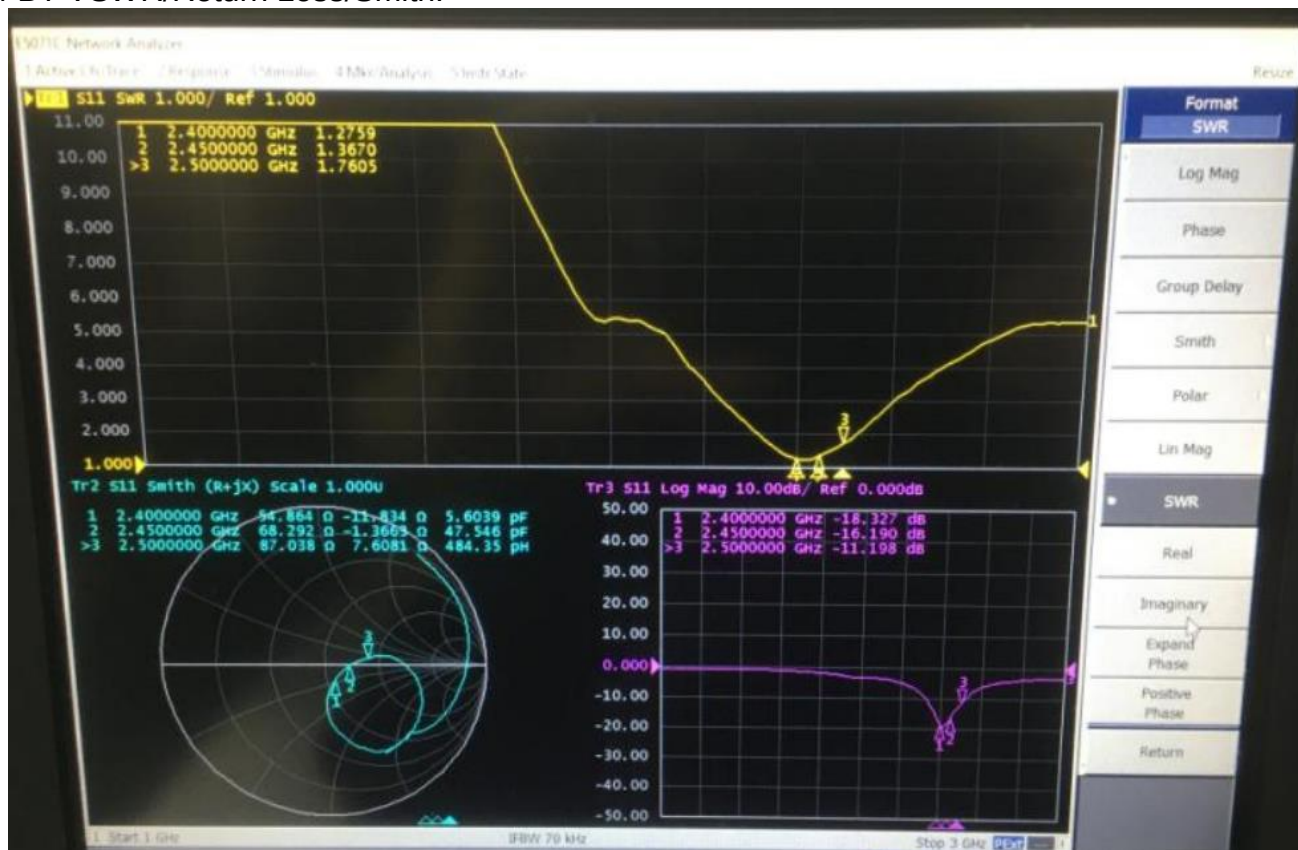
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3.4 BT VSWR/Return Loss/Smith:



3.5 BT Efficiency And Gain:

Frequency / MHz	Efficiency / dB	Efficiency / %
2400	-3.35	46.24
2410	-3.54	44.26
2420	-3.4	45.71
2430	-3.39	45.81
2440	-3.59	43.75
2450	-3.49	44.77
2460	-3.42	45.5
2470	-3.62	43.45
2480	-3.62	43.45
2490	-3.49	44.77
2500	-3.8	41.69

Frequency / MHz	Gain/ dBi
2400	2.51
2410	2.21
2420	2.77
2430	2.59
2440	2.09
2450	2.43
2460	2.87
2470	2.4
2480	2.43
2490	2.79
2500	2.3



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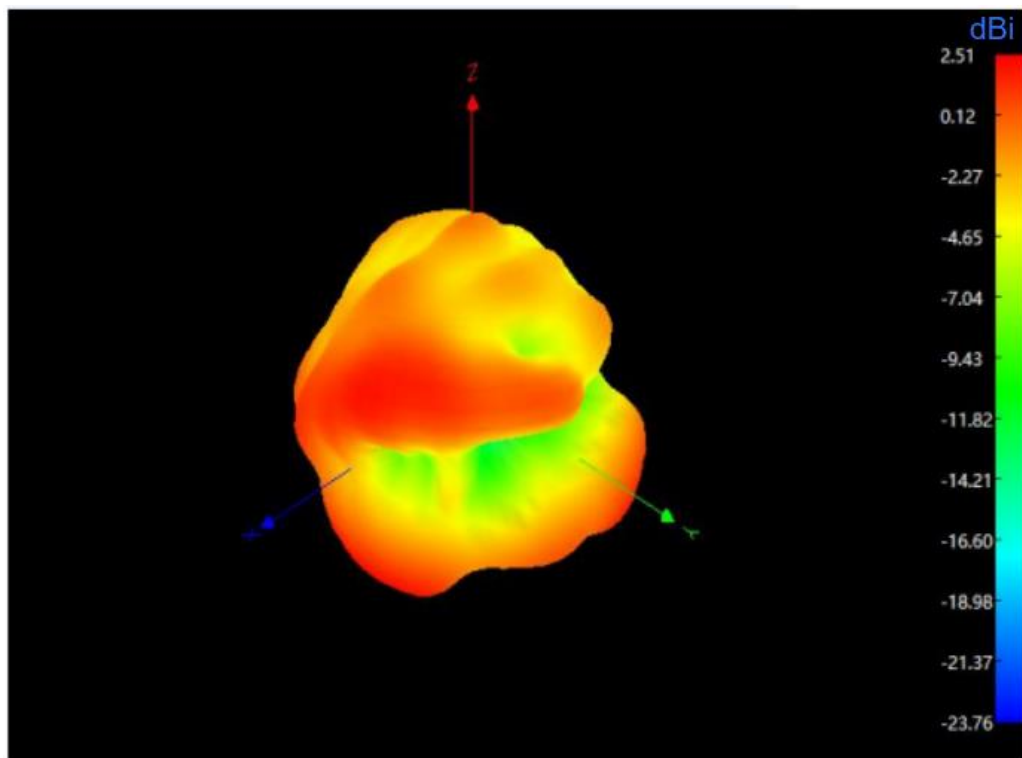
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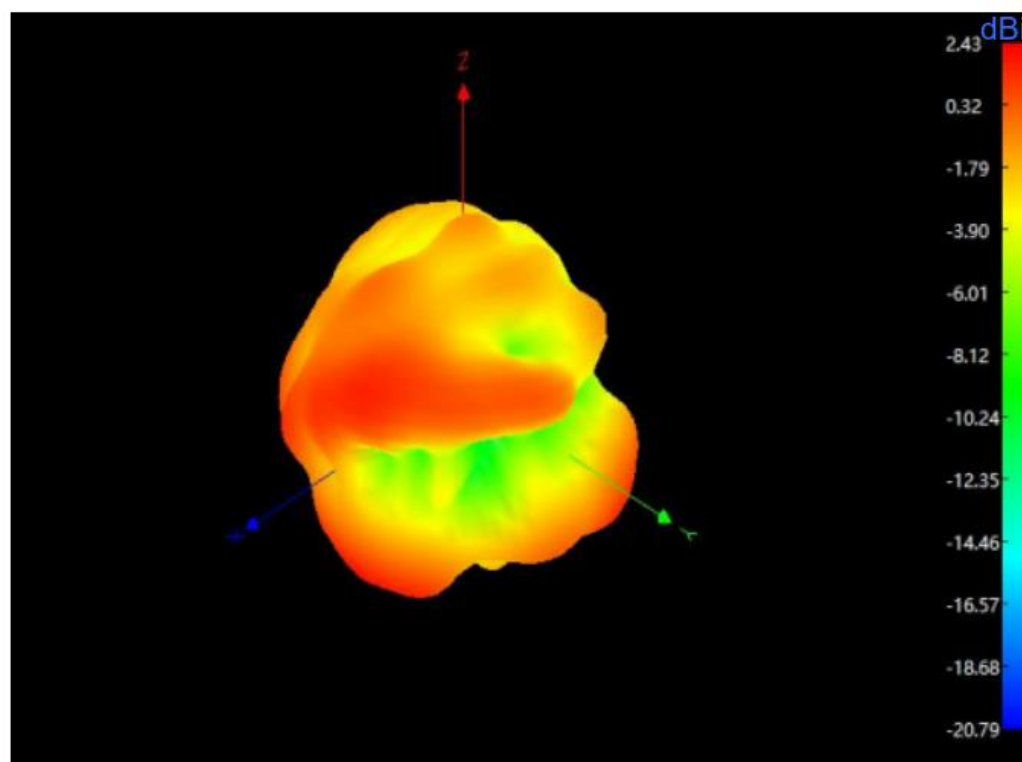
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3.6. BT 3D Pattern 2400MHz



2450MHz





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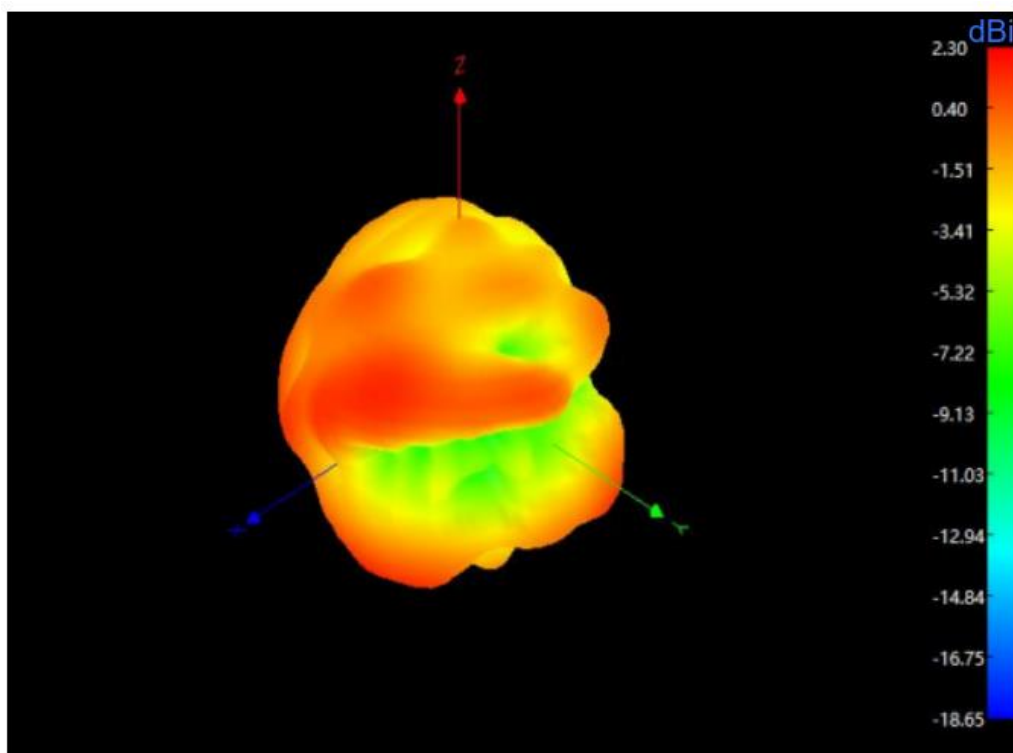
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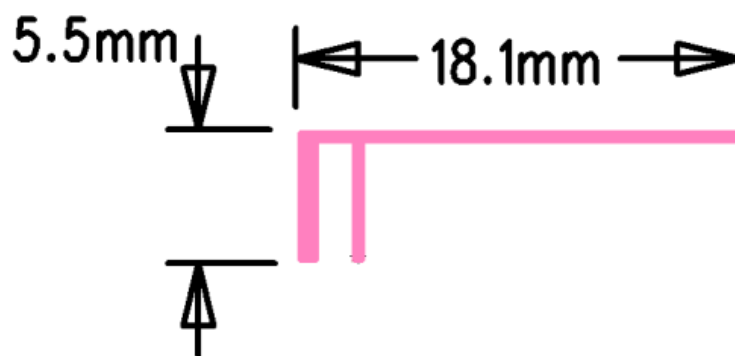
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2500MHz



3.7 BT Engineering drawings:



PCB on-board antenna