



几米 Antenna Study

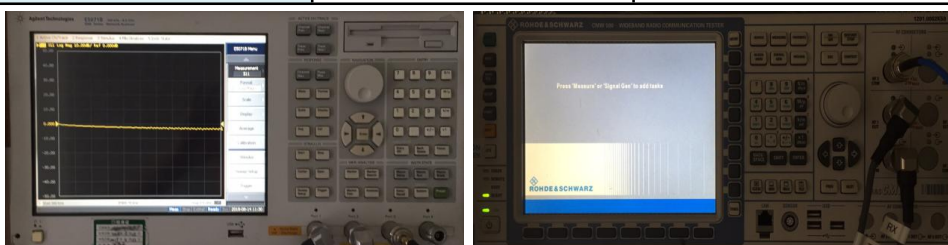
- **Client Name: 几米**
- **Project Name:E8402**

Debugging frequency band: NB/B2/B4/B5/B12/B13/B66/B71/B85,EMTC/B2/B4/B5/B12/B13/B25/BT

- **Valuation date: 2022.09.20**

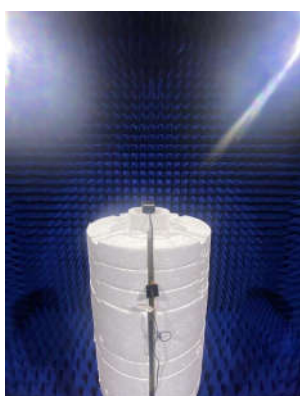
Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)

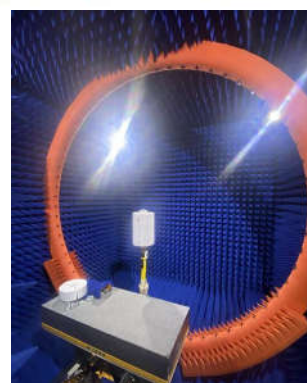


Internal Antenna

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Testing environment



Testing 3D microwave darkroom(6m*6m*6m)

Internal Antenna

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BT

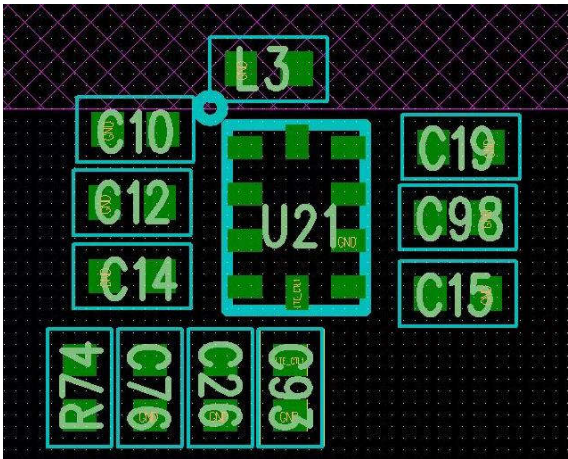
主天线

- Antenna name: LTE
- Covers : BT/B2/4/5/12/13/25/66/71/85

BLE Antenna Size: 15.5*12mm

Main-match changes

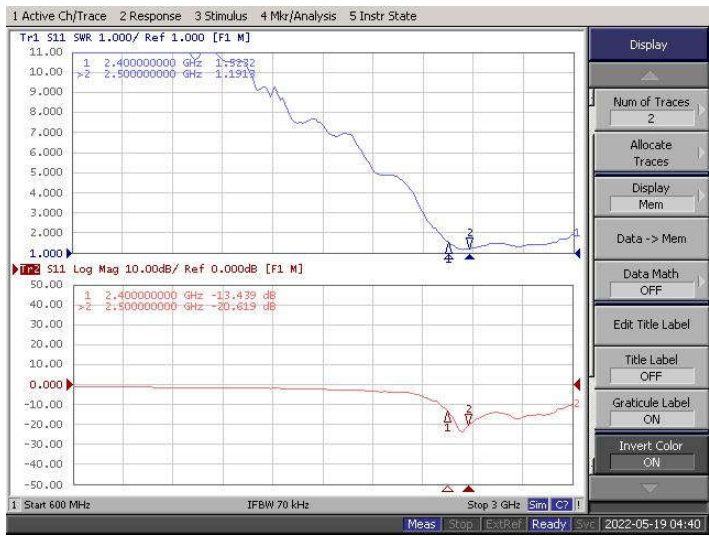
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开关馈脚	
位号	匹配值
L3	N/C
C10	0 Ω
C12	9.1NH
C19	39NH
C98	68NH

BT Antenna VSWR & Return Loss

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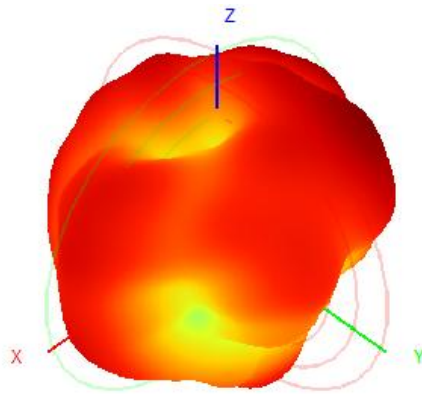


BT antenna efficiency and gain

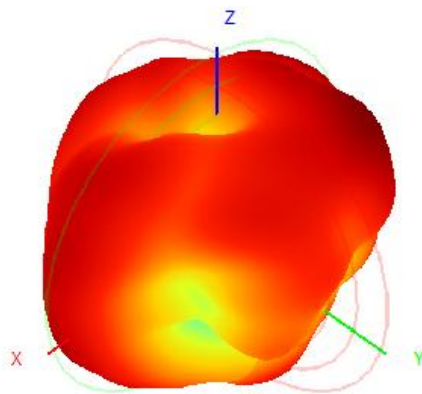
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Frequency (MHz)	2400	2450	2500
Efficiency (%)	40.3	40.1	42.5
Gain(dBi)	1.5	1.4	0.68

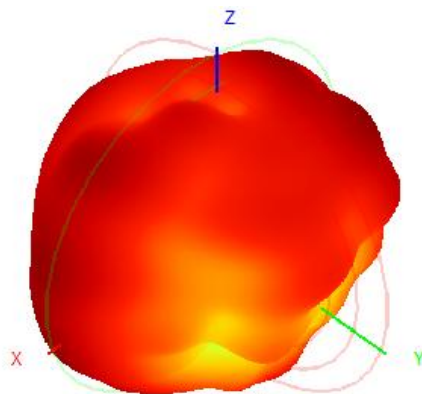
Antenna 3D Radiation Pattern



2400MHz



2450MHZ



2500MHZ