



深圳市宇鸿实业有限公司
Shenzhen Yuhong Industrial Co., Ltd.

Bluetooth Earphone Antenna Study

Client Name: LITE STAR ELECTRONICS TECHNOLOGY Co., Ltd.

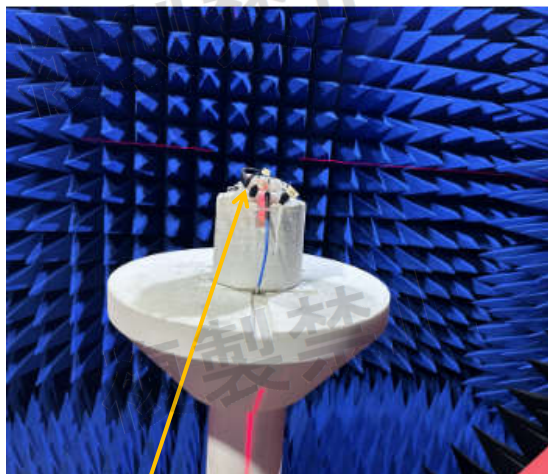
Project Name: SU03

Debugging frequency band: 2400–2480MHz

Antenna manufacturer: Room 1308, Block A,
Zhantao Science and Technology Building,
Minzhi Avenue, Longhua New District,
Shenzhen

Valuation date:2023. 3. 30

Ternal Antenna

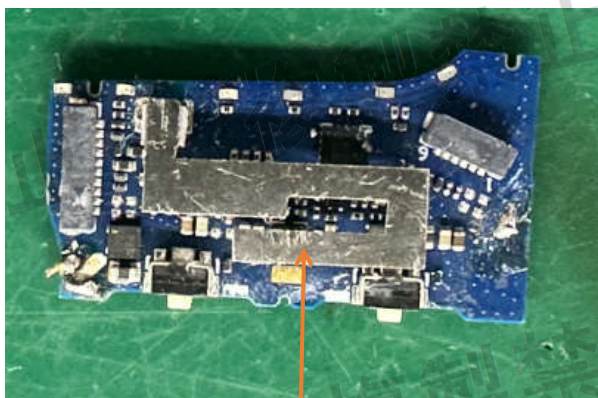


Testing environment



Testing 3D microwave darkroom(4m*4m*4m)

External Antenna



Antenna

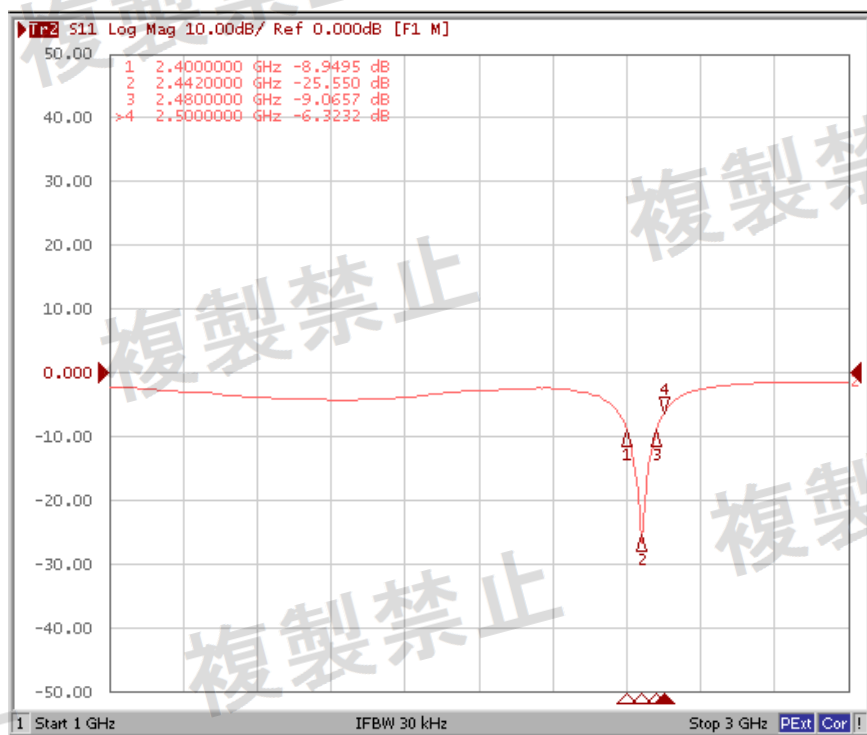
Antenna name:2. 4G

Antenna Type:PIFA

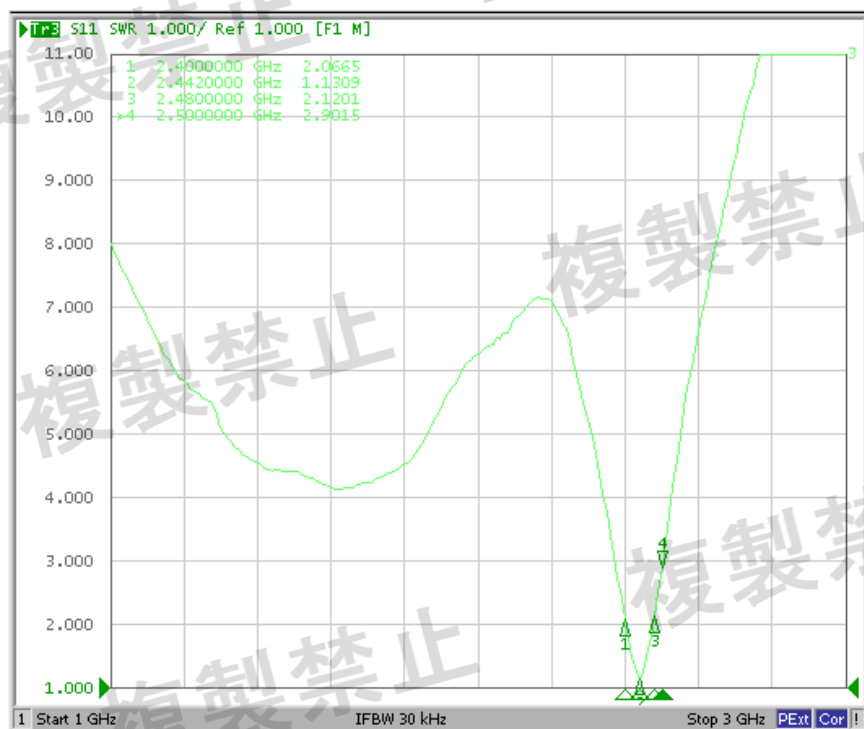
Covers:2400-2480MHz

Size: 17.15*9.5*3.6mm

Return Loss&VSWR

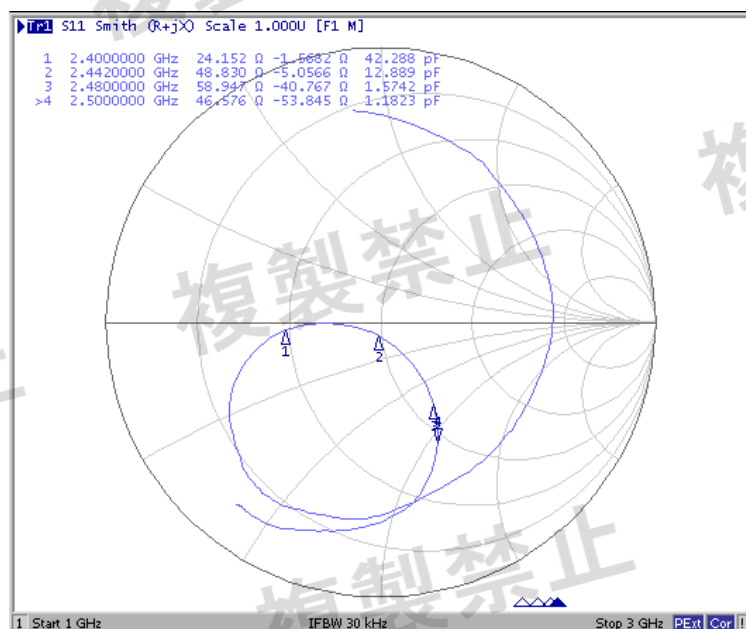


Return Loss



VSWR

Efficiency and Gain&smith



Smith

Frequency ID	1	2	3	4	5	6	7	8	9
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
Gain(dBi)	0.92	1.09	1.21	1.23	1.13	0.9	0.68	0.59	0.51
Efficiency(%)	27.89	27.97	27.78	27.04	26.86	25.79	25.5	24.76	24.78

Freespace Environment Performance ---- BT

