



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.

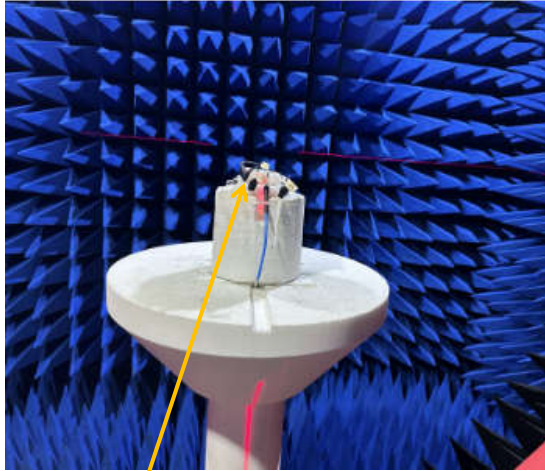
Project, Name:SU05

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. 7. 18

Ternal Antenna

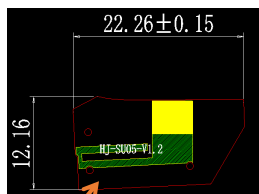


Testing environment



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

External Antenna



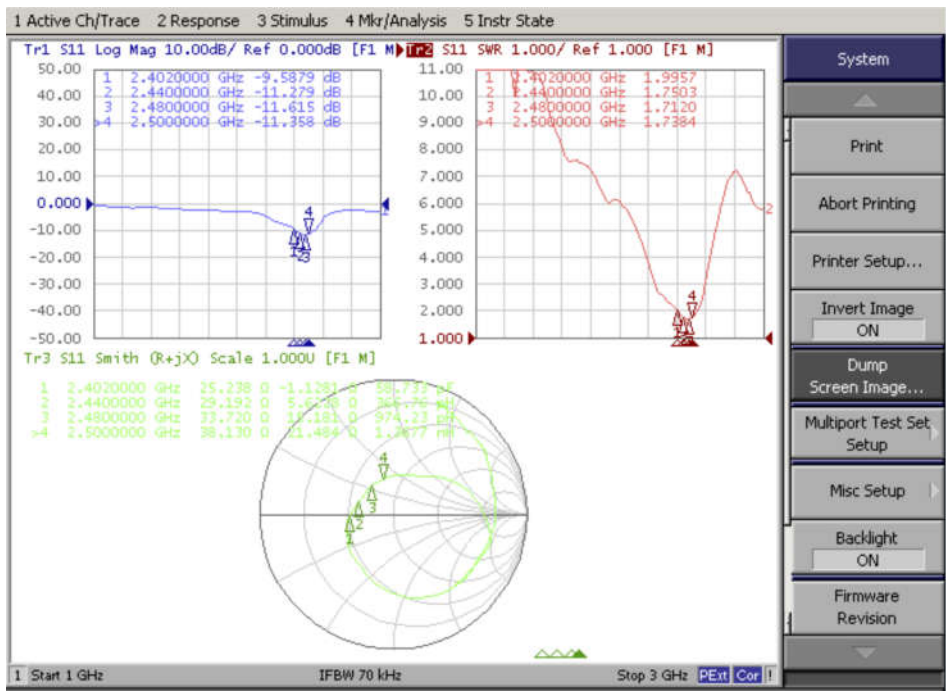
Antenna

Antenna name:2.4G

Antenna Type:PIFA

Covers:2400-2480MHz

Return Loss&VSWR



Efficiency and Gain&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)	-0.29	-0.32	-0.45	-0.63	-0.8	-0.87	-0.84	-0.76	-0.7
Efficiency(%)	19.54	19.75	19.83	19.86	19.97	20.36	20.94	21.55	22.09

Freespace Environment Performance ---- BT

