

Antenna Sample Datasheet

customer:	Dongguan Hele Electronics Co., Ltd
entry name:	QT30-R
Material category:	BT antenna
Antenna Type	PIFA
Antenna Material	FPC
edition:	A0
Date:	2024.01.02



深圳市宇鸿实业有限公司

Shenzhen Yuhong Industrial Co., Ltd

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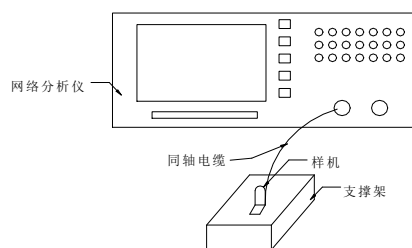
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1: Antenna test equipment

List of meters: Agilent 5071B;

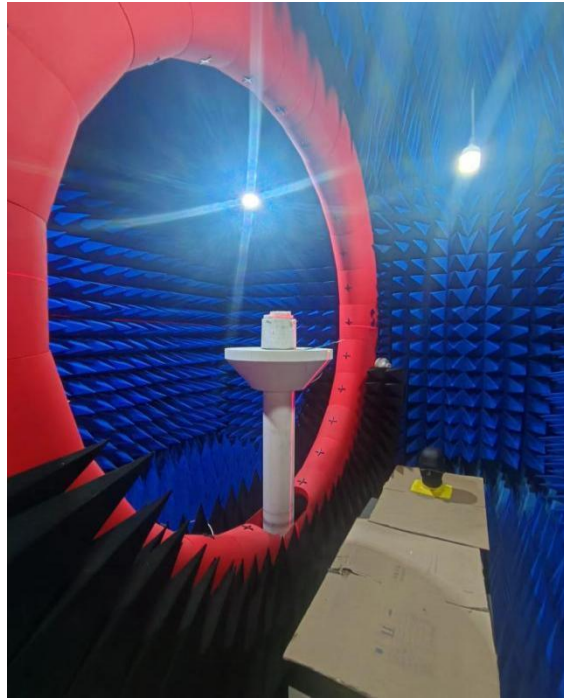


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber

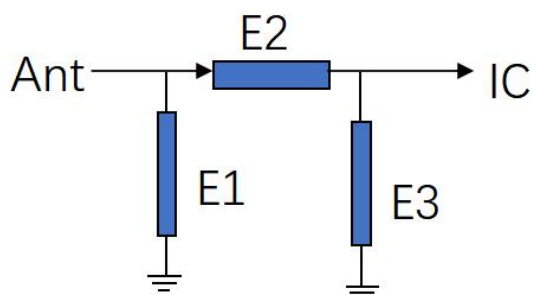


Inside the ETS anechoic chamber



Test Machine

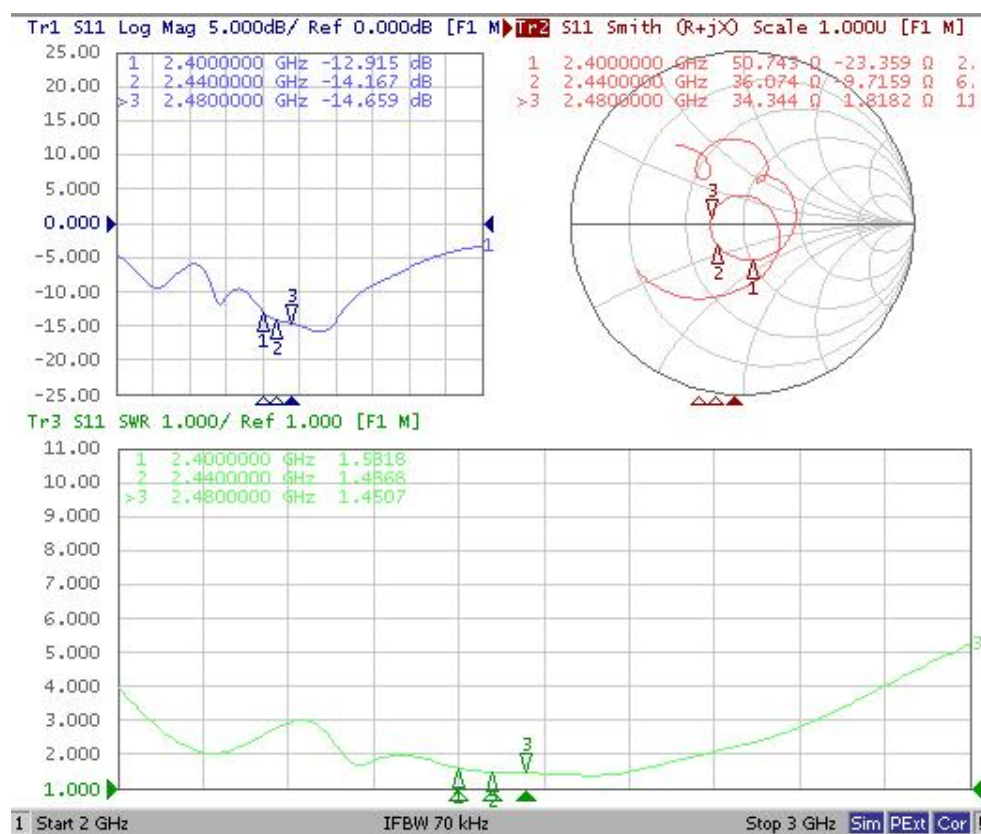
2: Matching circuit



Element	Value
E1	N/A
E2	0R
E3	N/A

3: Passive test report

3.1: BT antenna S11 parameters

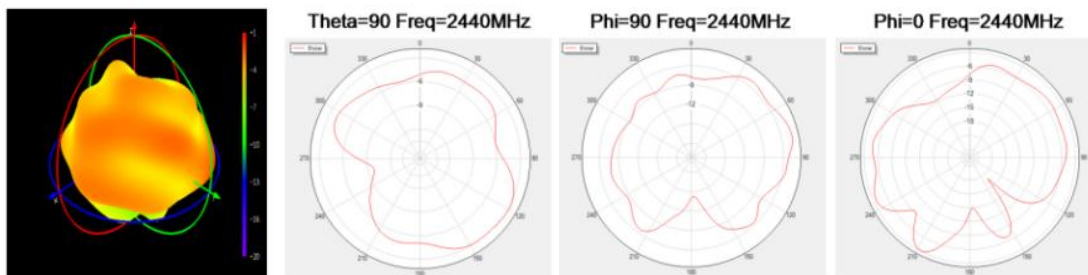




3.2: Passive efficiency of antenna

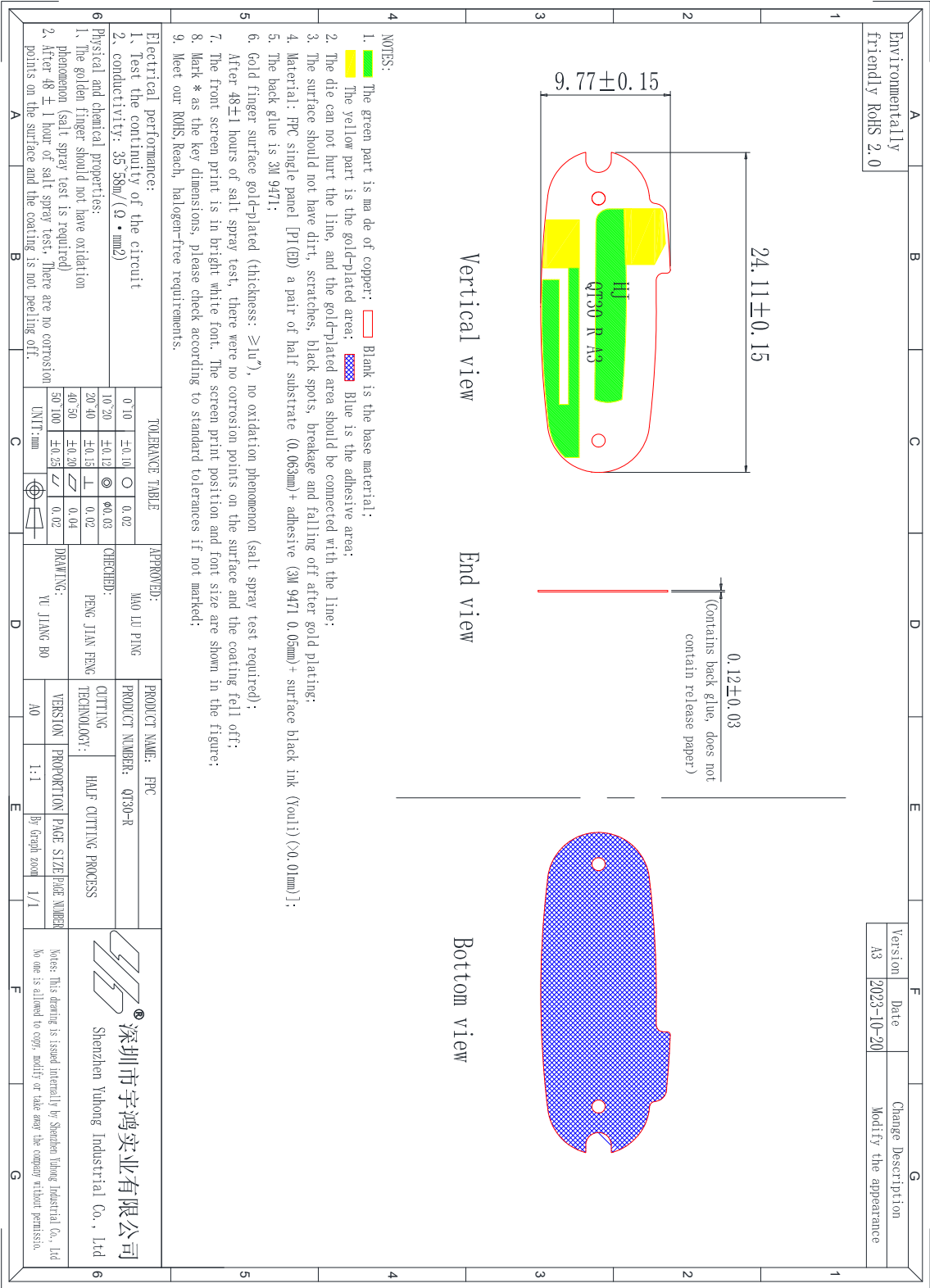
Freq(MHz)	Gain(dBi)	Efficiency(%)	Gain(dBi)	Efficiency(%)
	free space-Left	free space-Left	free space-Right	free space-Right
2400	-1.38	27.79	-5.79	9.94
2410	-0.91	28.81	-5.78	9.41
2420	-0.38	28.5	-5.46	9.49
2430	-0.17	28.95	-5.21	9.21
2440	-0.68	30.1	-5.81	9.4
2450	-1.07	29.25	-5.61	9.07
2460	-1.28	28.54	-5.02	10.82
2470	-1.28	28.99	-5.35	10.53
2480	-1.23	29.87	-5.59	10.68
Mean value	-0.93	28.98	-5.51	9.84

3.3: Passive pattern of BT antenna





4: Structural drawing



5: OTA Test data

R	Channel	TRP (dbm)	TIS (dbm)
Free space	0	2.06	-87.87
	39	2.18	-88.66
	78	2.33	-88.42
R	Channel	TRP (dbm)	TIS (dbm)
Head model	0	-1.96	-83.09
	39	-1.65	-83.25
	78	-1.66	-83.14

6: Antenna diagram

