

Antenna Sample Datasheet

customer:	EDIFIER TECHNOLOGY CO. , LTD.
entry name:	S10
Material category:	BT antenna
Antenna Type	Monopole
Antenna Material	FPC
edition:	A5
Date:	2024. 3. 28

Contents

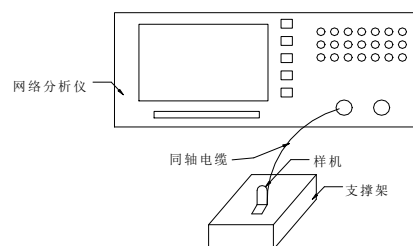
1: Antenna test equipment.....	1
2: Passive test report.....	3
3: Matching circuit.....	5
4: Structural drawing.....	6

1: Antenna test equipment

List of meters: Agilent 5071B;



1.1The 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

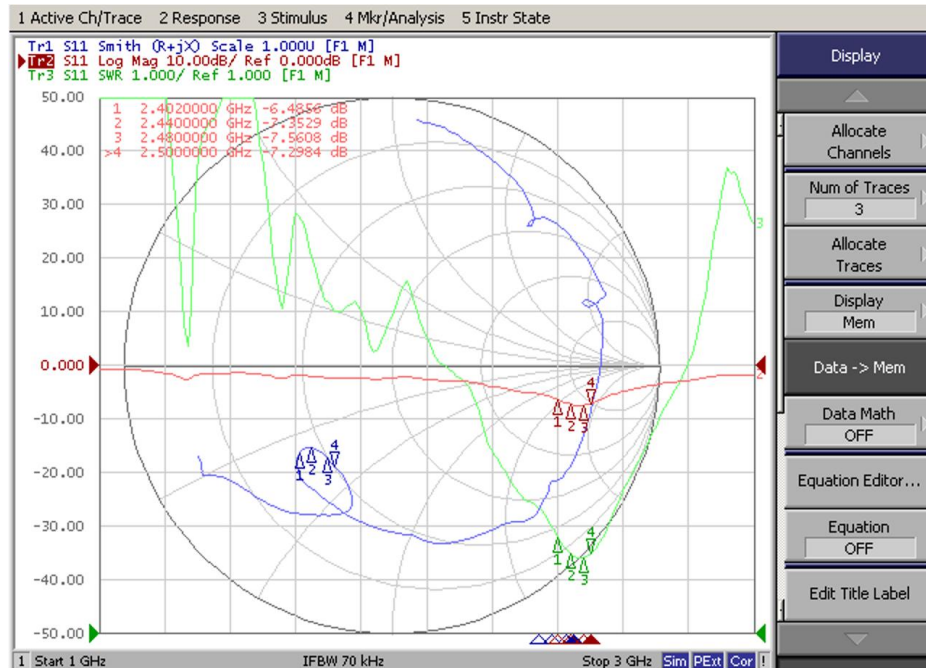


Test Machine

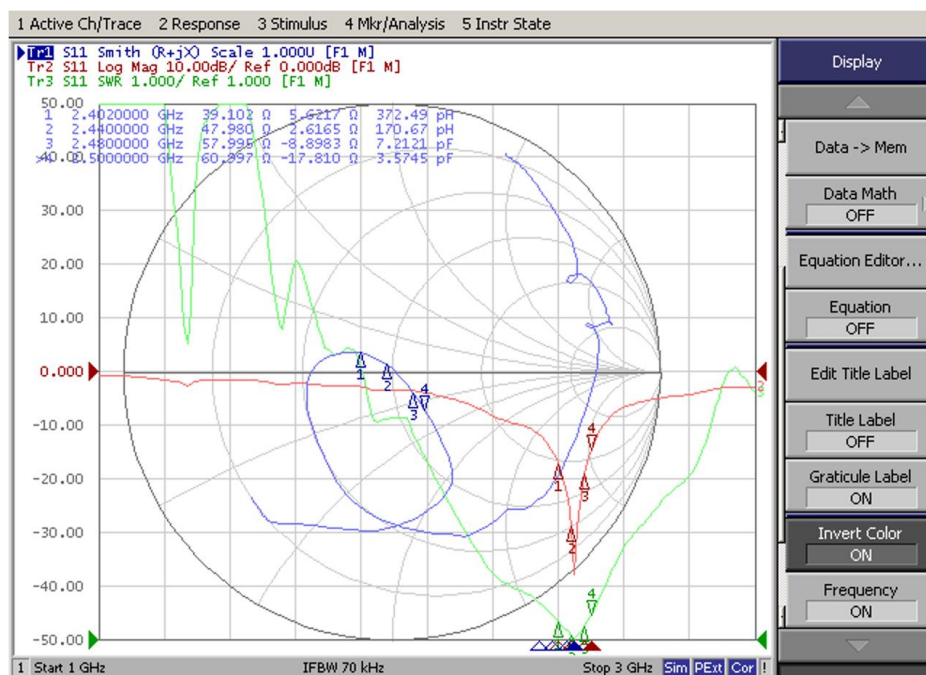
2: Passive test report

2.1: BT antenna S11 parameters

Left:



Right:



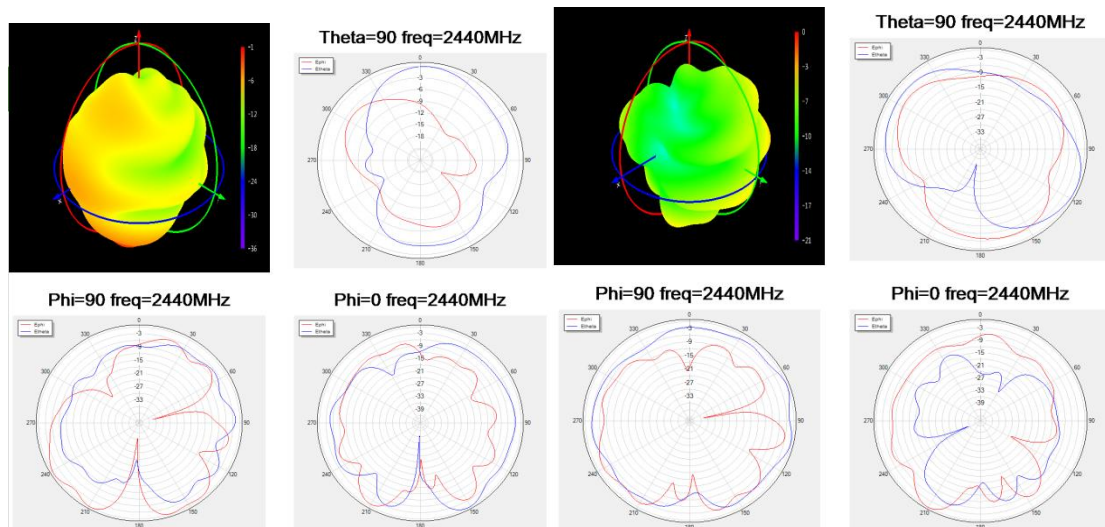
2.2: Passive efficiency of antenna

2400-2480MHz				
Freq(MHz)	Gain(dBi)	Efficiency(%)	Gain(dBi)	Efficiency(%)
	free space-Left	free space-Left	free space-Right	free space-Right
2400	-1.91	14.23	-0.92	17.24
2410	-1.59	15.14	-0.66	17.84
2420	-1.39	15.77	-0.57	18.12
2430	-1.33	16.07	-0.64	18.15
2440	-1.3	16.32	-0.75	18.25
2450	-1.26	16.49	-0.93	18.29
2460	-1.2	16.67	-1.07	18.39
2470	-1.07	17.16	-1.1	18.89
2480	-0.94	17.77	-1.06	19.5
2490	-0.83	18.32	-0.97	20.08
2500	-0.72	18.9	-0.85	20.66
Mean value	-1.23	16.62	-0.87	18.67

2.3: Passive pattern of BT antenna

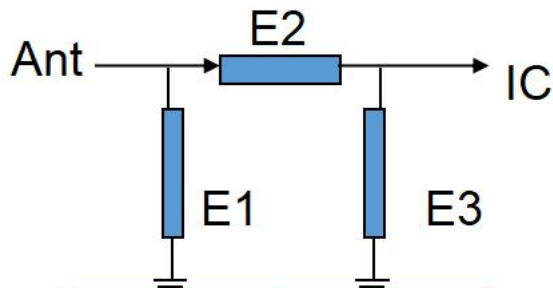
Left

Right



3: Matching circuit

Left/Right



Element	Value
E1	0.5PF
E2	2.0NH
E3	NC

