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Antenna test report

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Whole machine active source data

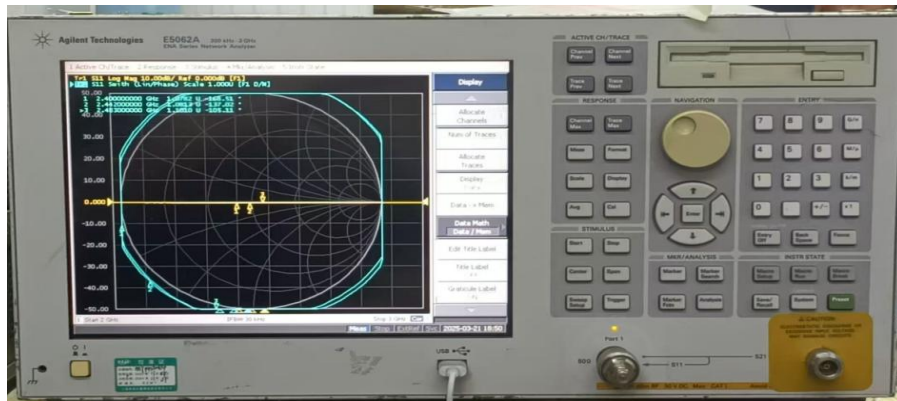
Waveform diagram of the network

Real - time measurement of signal spacing

Bill of Materials

Test equipment/conditions

- 1, S-parameter test
- 2, equipment: network analyzer
dark room
- 3, Project: impedance , Return Loss
, Efficiency rate gain, radiation
field shape , sensitivity power

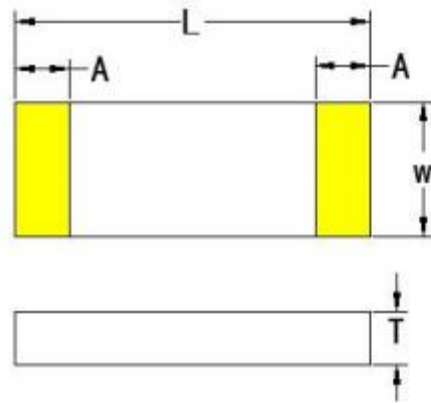


Antenna Specification Description

Customer Name	Dongguan Chenxin Electronic Technology Co., Ltd.
Model Name	BN972
Antenna name	Monopole Antenna
Antenna Model	PBX5012DA01
Antenna Type	Ceramic Antenna
Center Frequency	2450MHz
External Dimensions (L×W) (mm)	5.0mm* 1.2mm

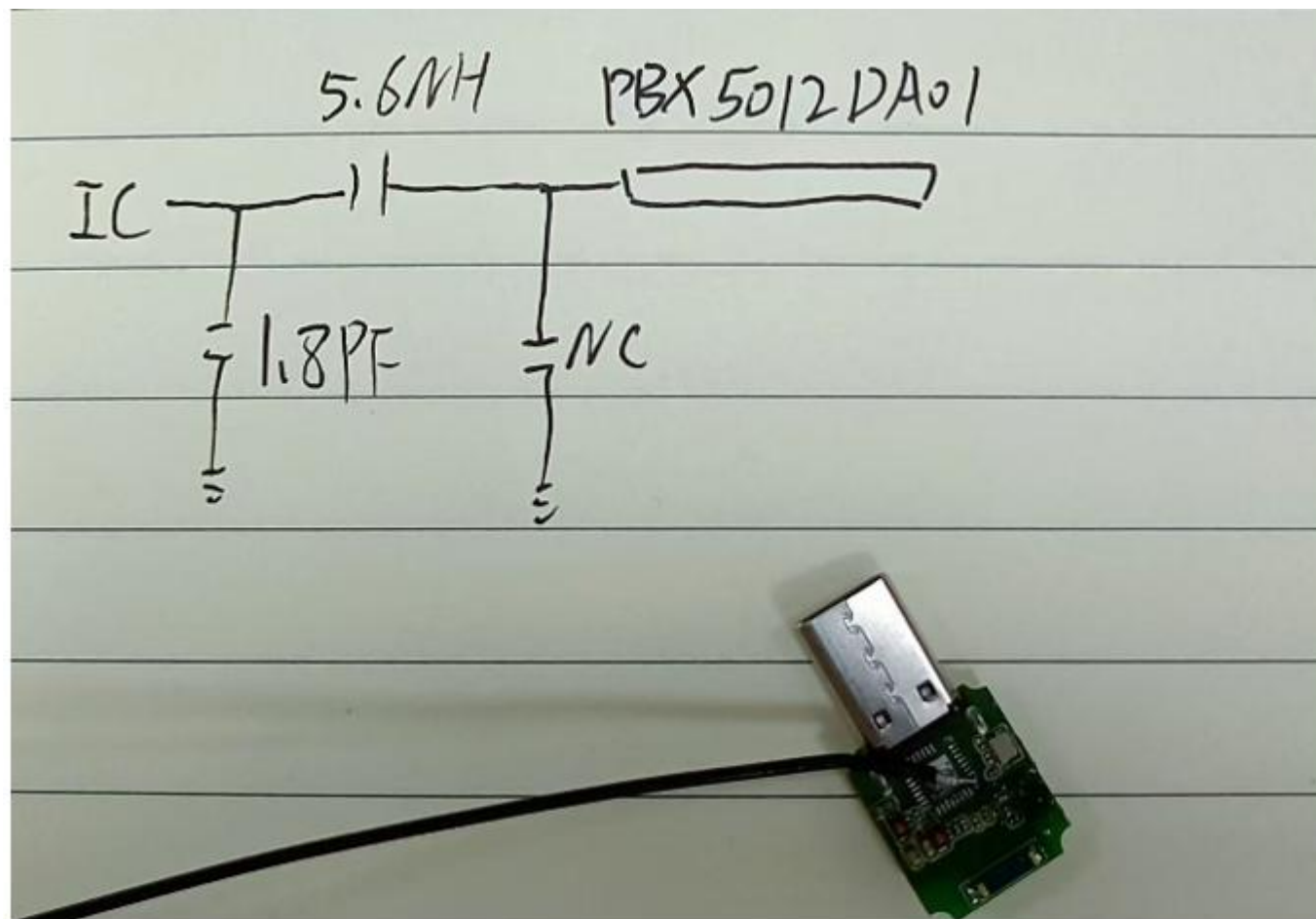
Antenna Dimension Drawing

4. SHAPE AND DIMENSIONS:

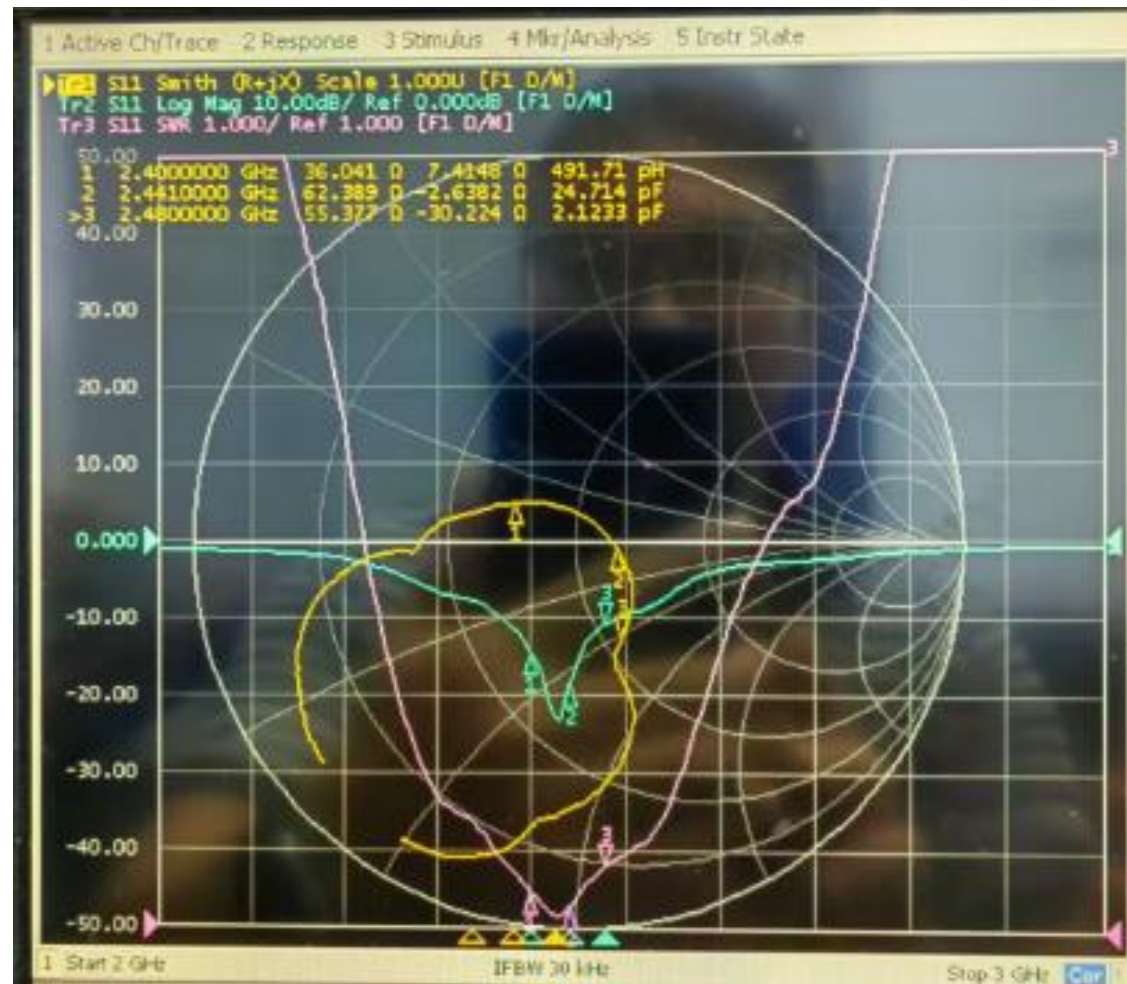


Unit:mm	L	W	A	T
CHIP-5012	5.0 ± 0.2	1.2 ± 0.2	0.2 ± 0.2	1.2 ± 0.2

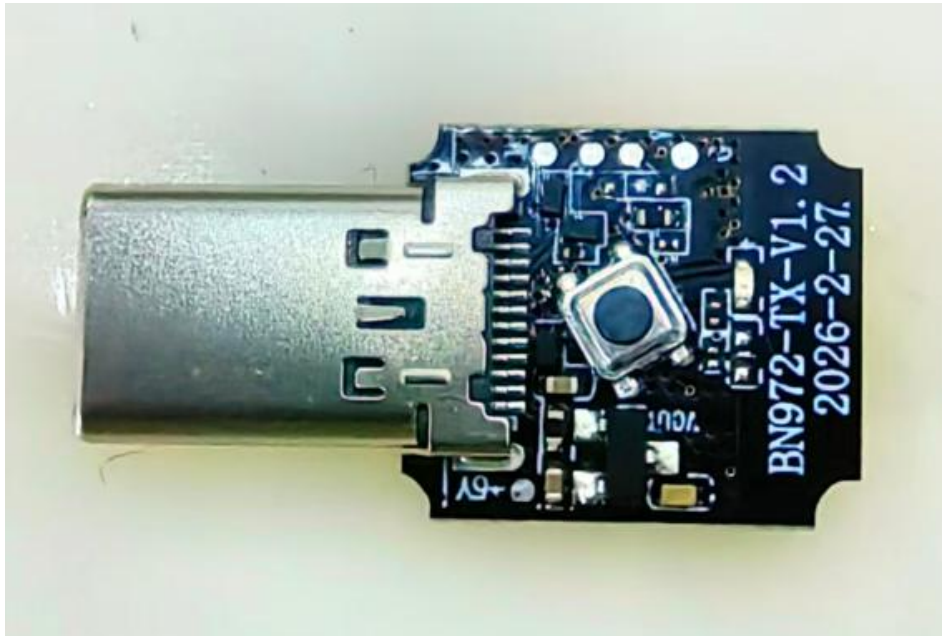
Antenna Matching Parameter Marking



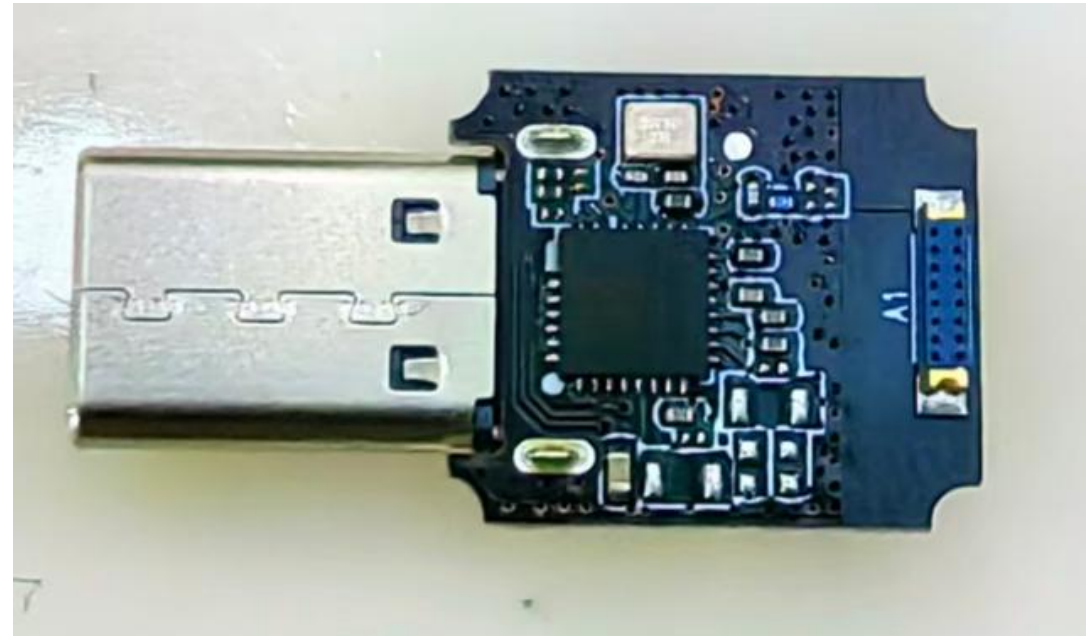
Smith Chart



Prototype Appearance



Front Side

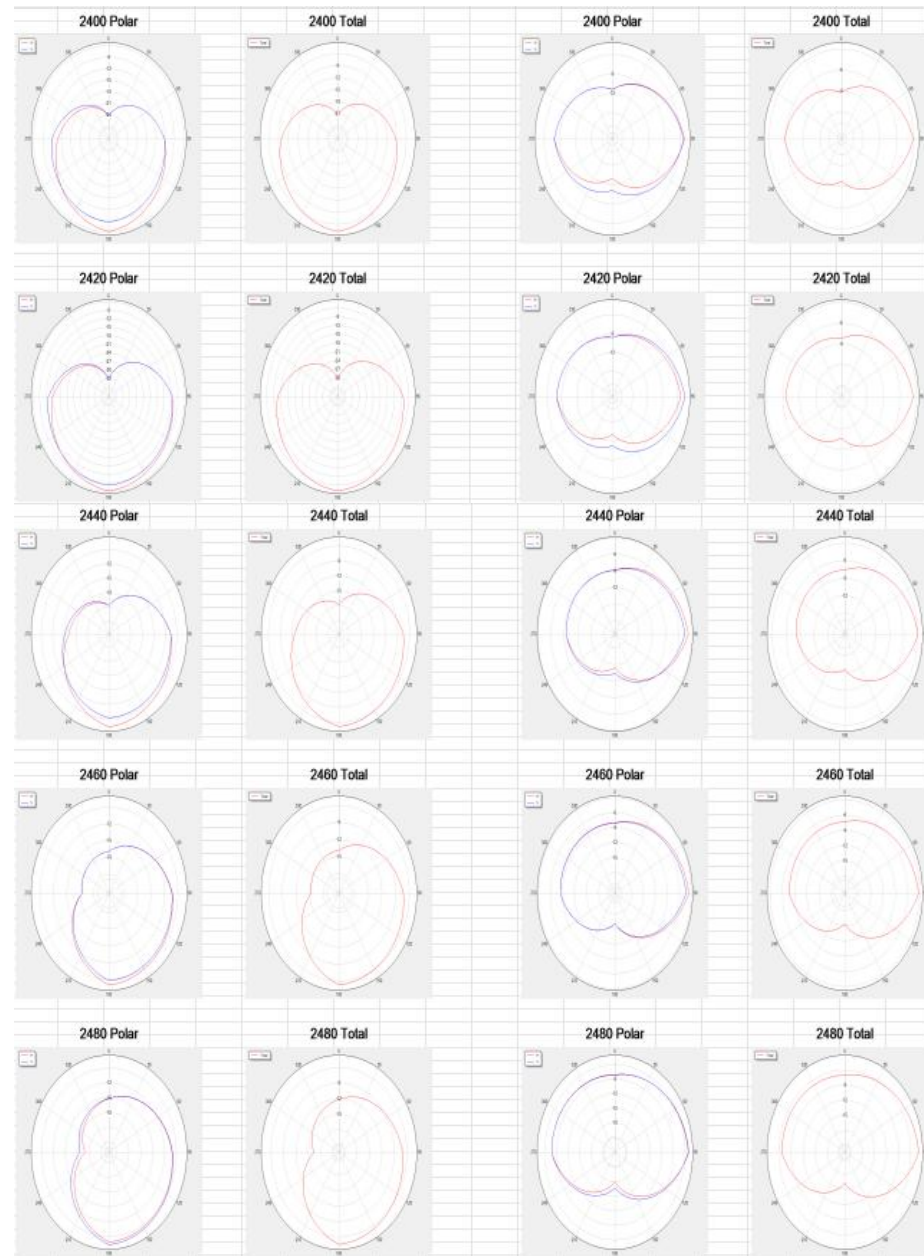


Back Side

Percen Gain

Frequen cy	Effic	Percen	Gain
2400	-6.31	22.31%	-1.84
2420	-6.09	24.62%	-1.6
2440	-5.76	26.56%	-2.27
2460	-6.67	21.51%	-0.97
2480	-6.67	21.55%	-1.98

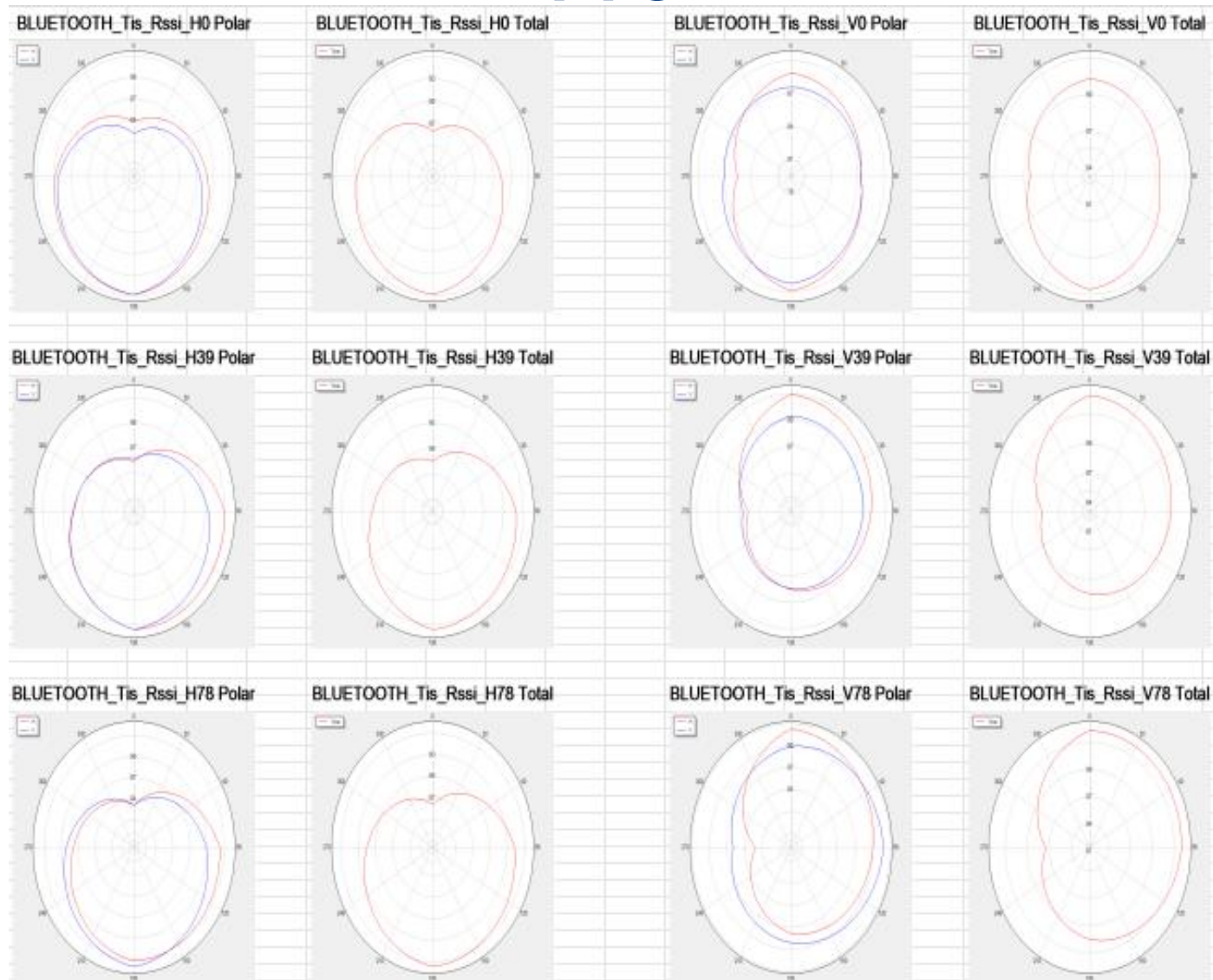
TotalAndPolar



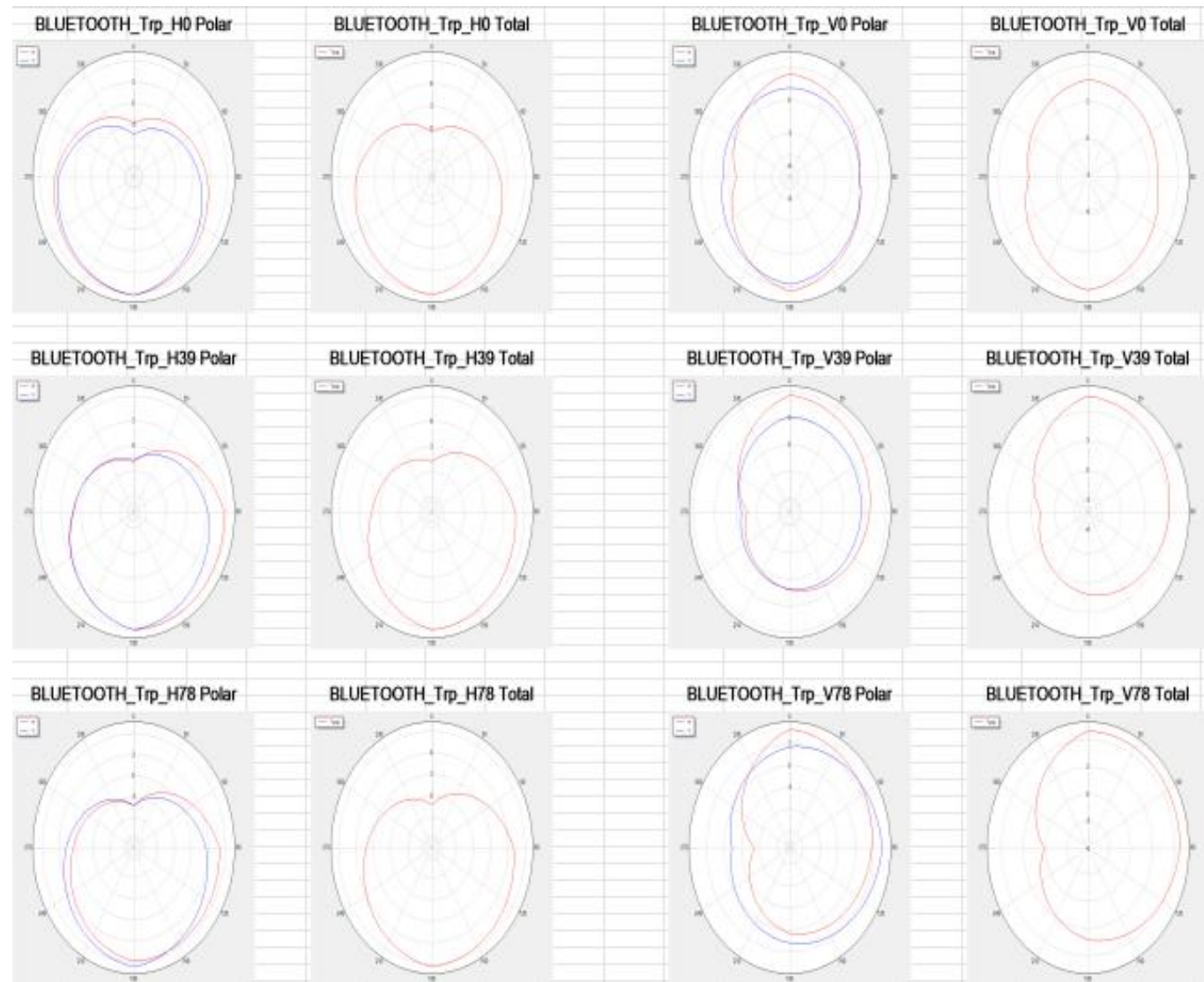
OTA

Standard	Band	Chan	BW	Freq	Type	MAX	TRP/TIS	GainLoss
BT	BLUETOOTH	0	1	2402	Trp	5.91	3.45	0
BT	BLUETOOTH	39	1	2441	Trp	7.31	4.12	0
BT	BLUETOOTH	78	1	2480	Trp	6.56	3.32	0
BT	BLUETOOTH	0	1	2402	Tis_Rssi	-91.75	-89.29	0
BT	BLUETOOTH	39	1	2441	Tis_Rssi	-92.85	-89.65	0
BT	BLUETOOTH	78	1	2480	Tis_Rssi	-94.01	-90.77	0

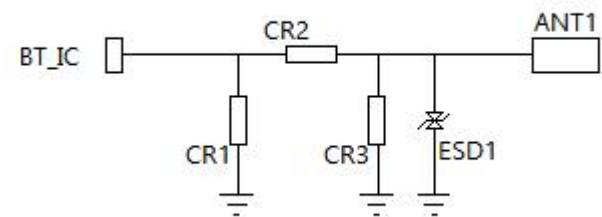
TIS



TRP



Bill of Materials



Serial number	Material Name	Specifications	Encapsulation	manufacturer	Tolerance	Remark
CR1	Chip Capacitor	1.8PF	0201	Microgate	±0.1	
CR2	Chip Inductor	5.1NH	0201	Sunlord	±0.1	NC
CR3	/	/	/	/	/	
ESD1	/	/	/	/	/	
ANT1	patch antenna	PBX5012DA01	5012	PengBan	/	NC



—— 感谢您的观看 ——

THANKS FOR WATCHING