



深圳麒鑫通达科技有限公司
Shenzhen Qixin Tongda technology co., ltd

天线测试数据报告

Antenna test data report

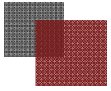
custom: Kechao Da
project: K20E
Frequency band: G4
engineering: Ma Fei (134 1821 8312)
date: May 15, 2023



Test items and equipment

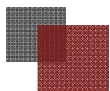
	测试项目	设备
1. s-parameter	1. RL 2. VSWR)	network analyzer: Agilent 5071B
2. Coupling power test	1. power 2. level)	Comprehensive measuring instrument: CMW500/8960 Darkroom: 6*4*3微波暗室



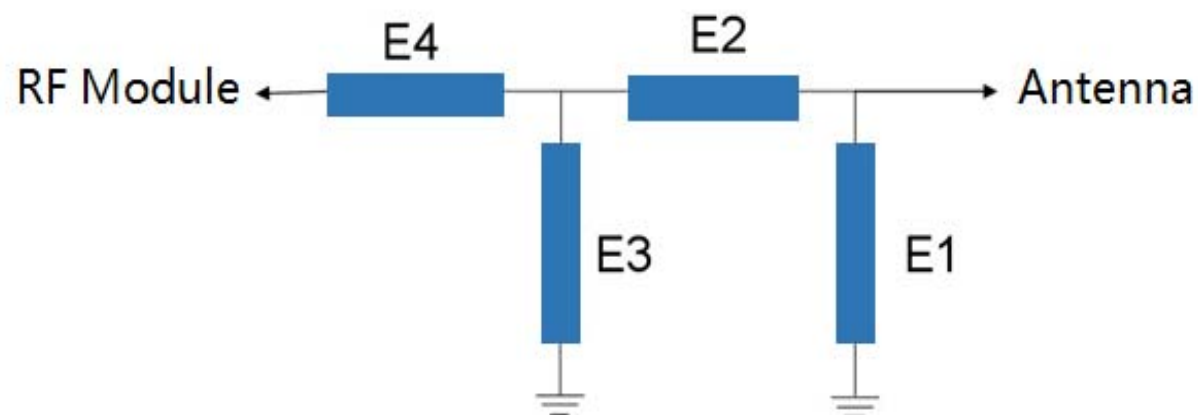


Main board model and complete machine

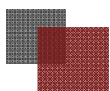




Main signal source matching circuit diagram



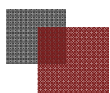
Element	Value
E1	Unchanged
E2	Unchanged
E3	Unchanged
E4	Unchanged



Antenna radiation test data (active)

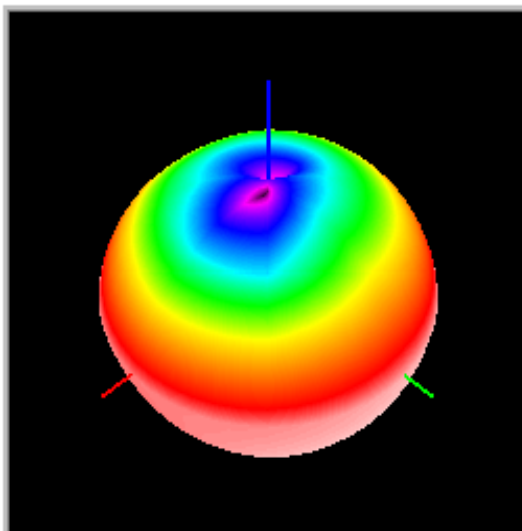


手机型号	1#						
Test items	GSM900Measurement value			DCS1800Measurement value			
Channel	1	62	124	512	698	885	
TRP (dBm)	28.27	28.73	28.94	23.22	24.04	24.74	
TIS (dBm)	-104.04	-103.72	-103.47	-105.69	-105.43	-105.37	
maximum power	30.48	30.97	31.27	26.03	26.49	27.24	
Minimum receiving sensitivity	-106.62	-106.34	-106.03	-109.7	-109.54	-109.31	
(DBI)	0.5	0.5	0.5	0.7	0.7	0.7	
Test items	GSM850Measurement value			PCS1900Measurement value			
Channel	128	190	251	512	661	810	
TRP (dBm)	25.37	25.74	26.5	26.33	25.8	25.27	
TIS (dBm)	-104.81	-105.14	-105.42	-102.79	-102.24	-101.86	
maximum power	27.48	28.0	28.88	29.25	29.03	28.78	
Minimum receiving sensitivity	-107.2	-107.53	-107.89	-106.22	-105.67	-105.19	
(DBI)	0.5	0.5	0.5	0.8	0.8	0.8	

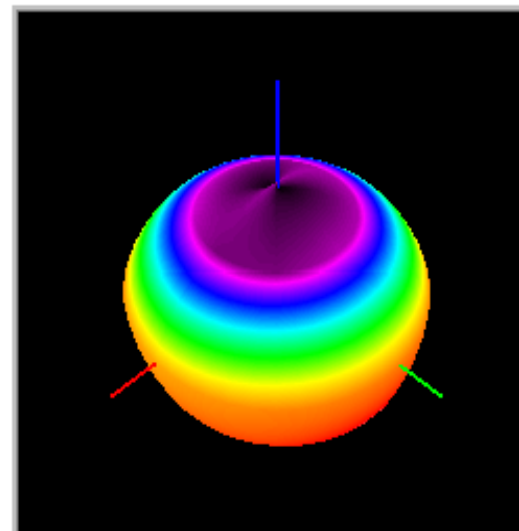


3D field strength map

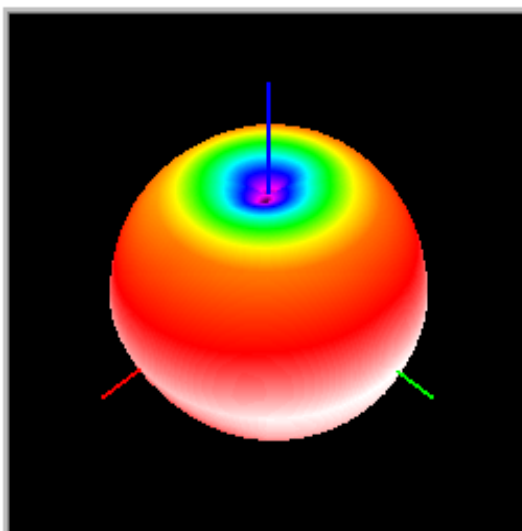
GSM850
-TRP



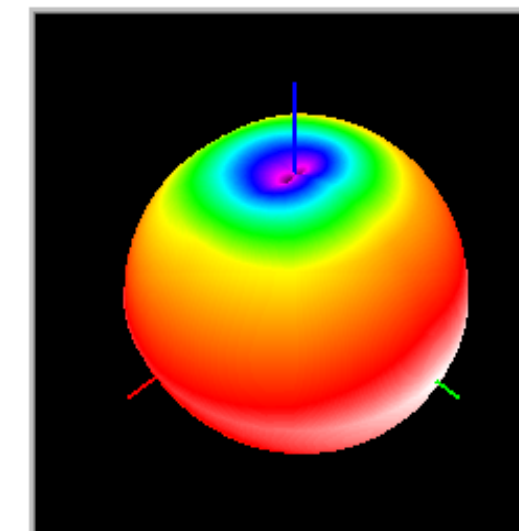
GSM850
-TIS

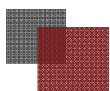


GSM900
-TRP



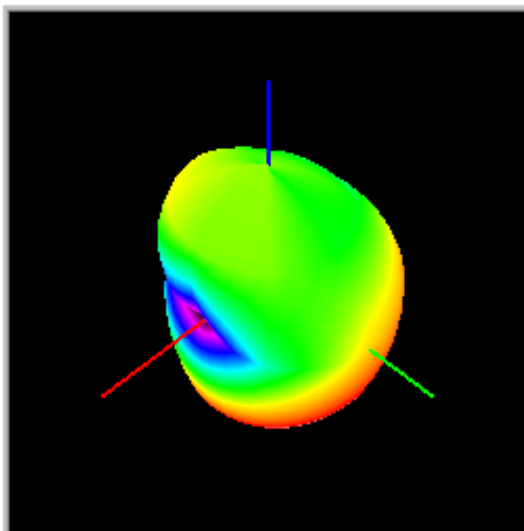
GSM900
-TIS



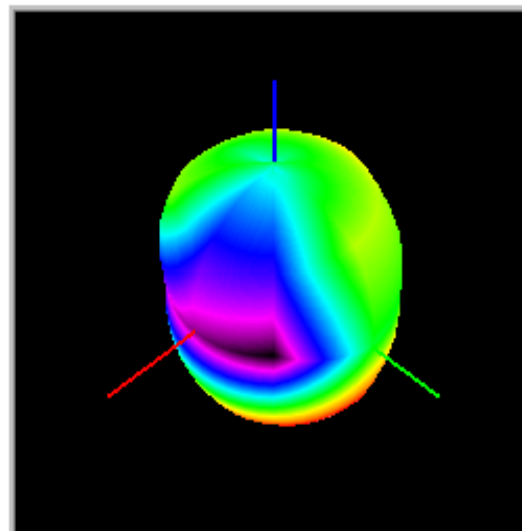


3D field strength map

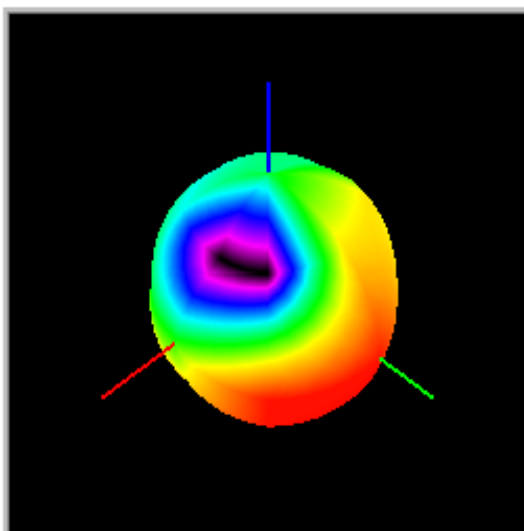
DCS1800
-TRP



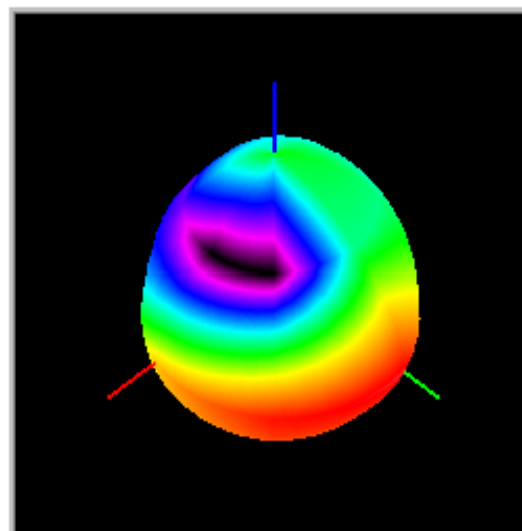
DCS1800
-TIS

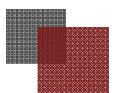


PCS1900
-TRP



PCS1900
-TIS

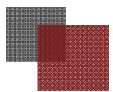




Bluetooth parameters



NO.	ITEMS	DETAILS
1	Operating band	BT
2	Frequency range	(2400~2500MHz)
3	Antenna Type	Monopole antenna
4	Antenna material and implementation form	Pure copper core wire
5	Impedance	50 (Ω)
6	Gain	≤ 1.5 dBi



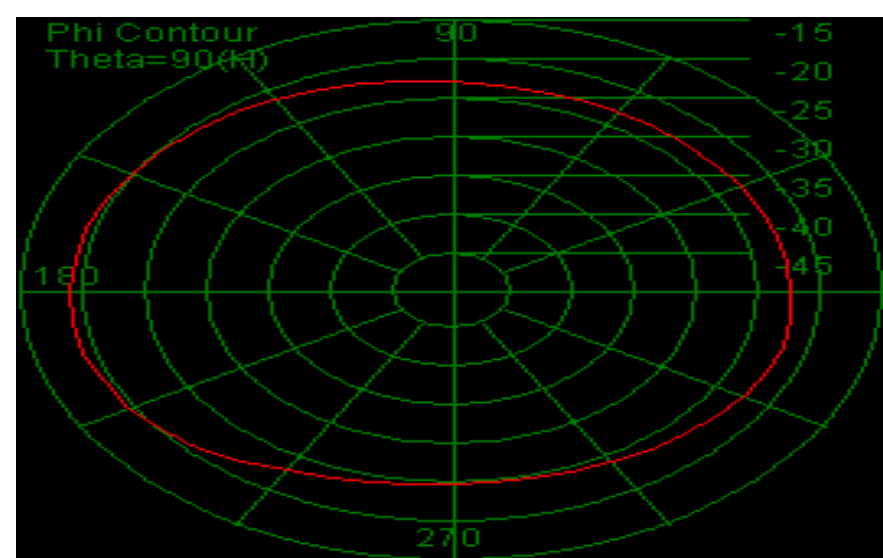
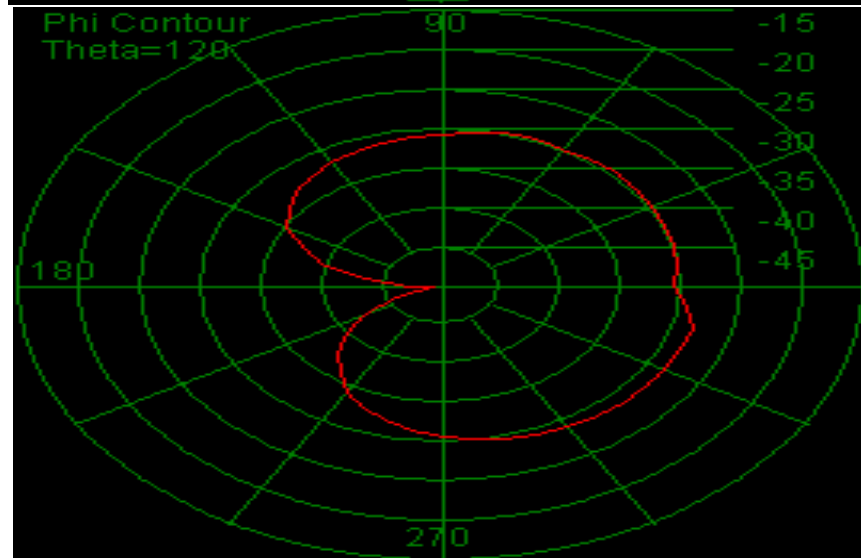
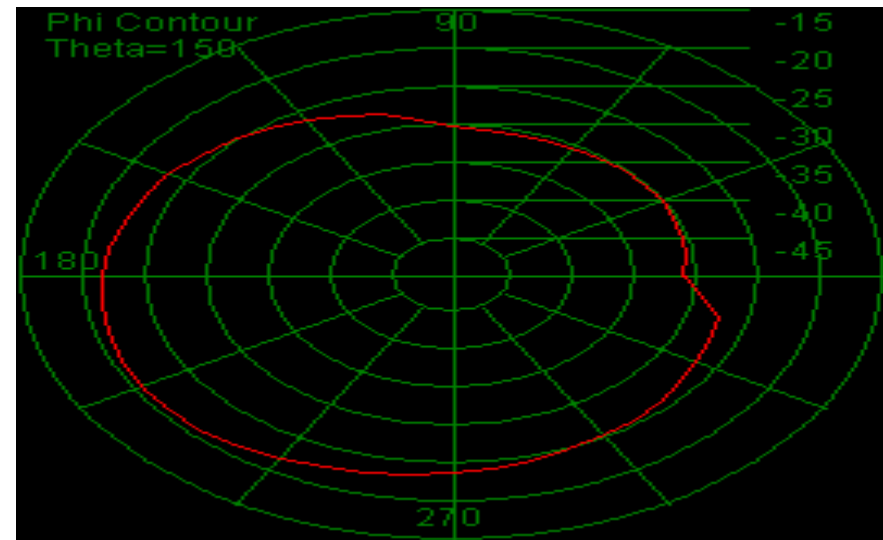
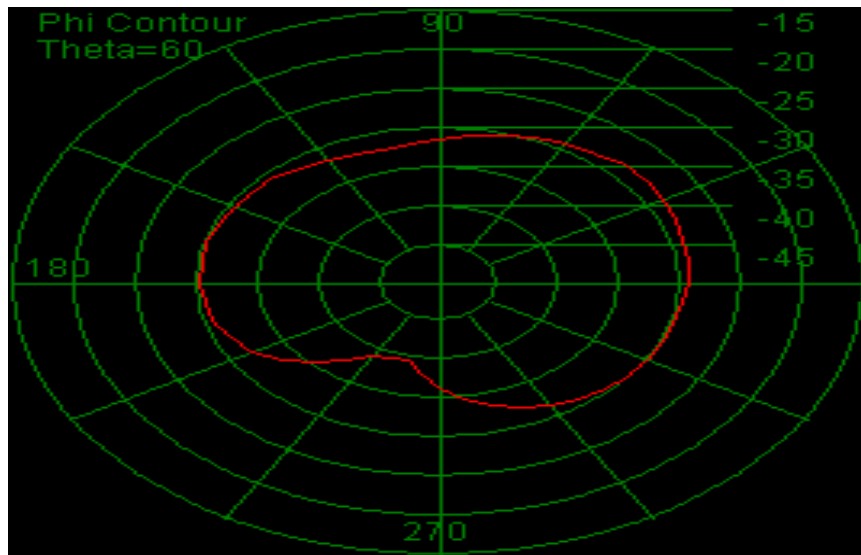
Bluetooth parameters



Frequency	Efficiency(%)	Gain(db)
2400MHZ	43.1	1.4
2420MHZ	43.6	1.45
2440MHZ	40.8	1.3
2460MHZ	41.9	1.5
2480MHZ	43.7	1.6
2500MHZ	45.2	1.7

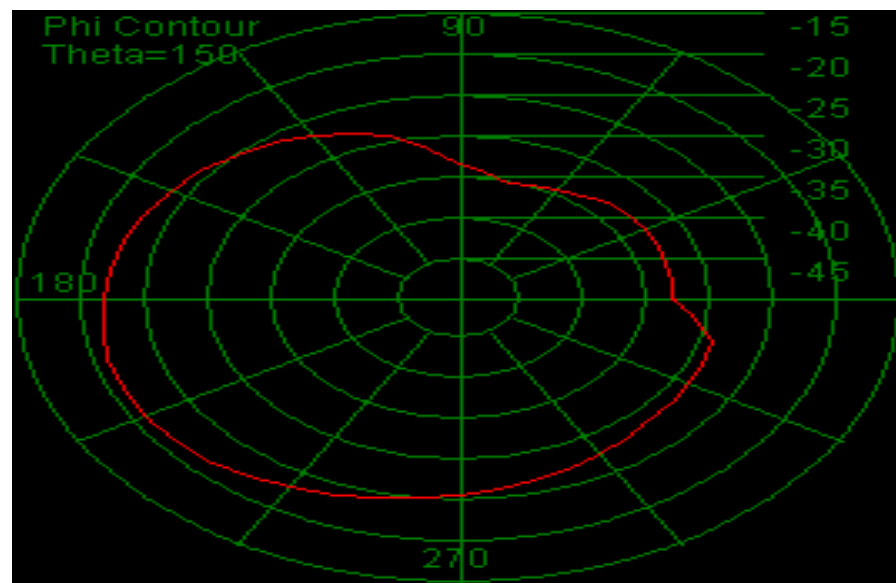
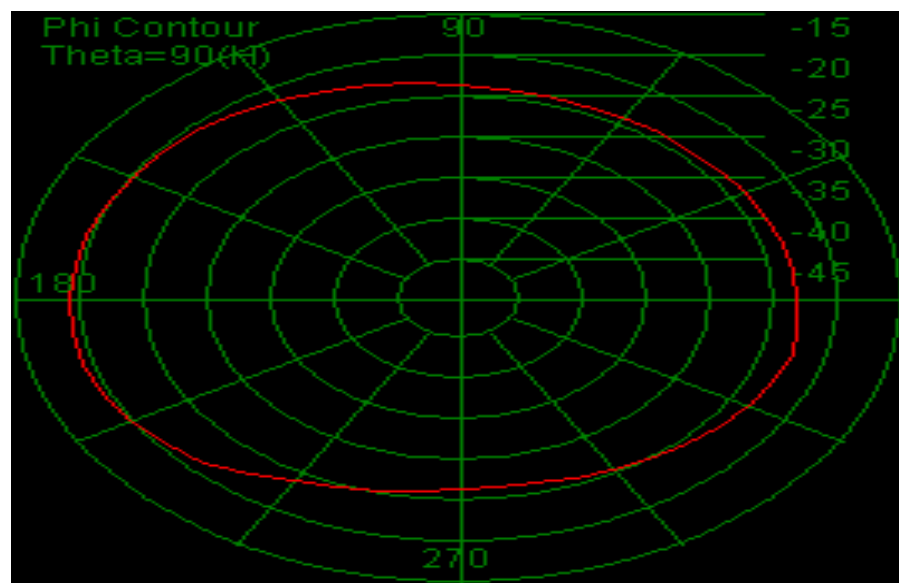
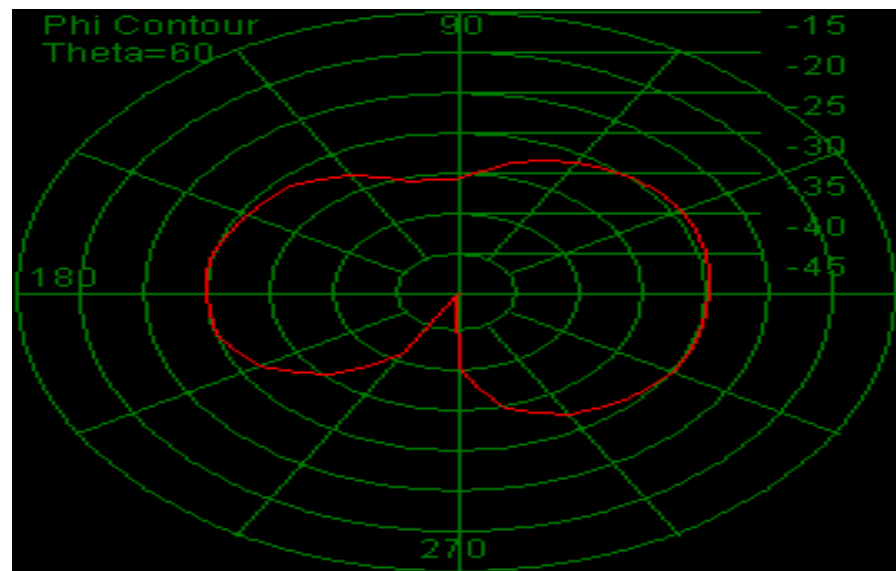
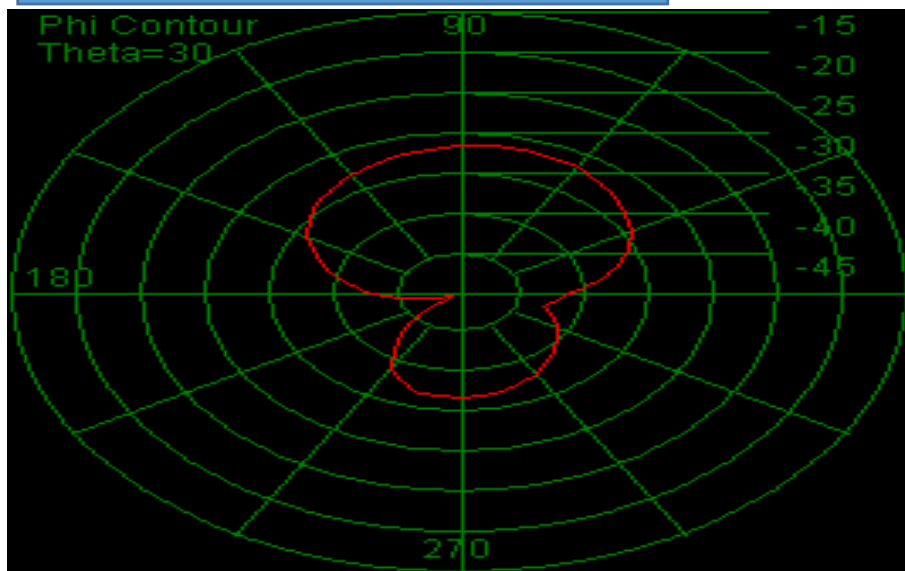
Bluetooth parameters

2400mhz



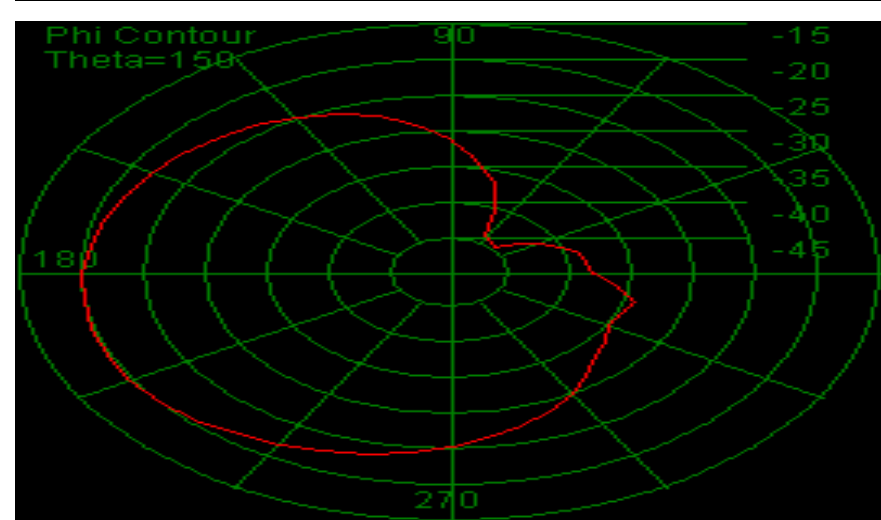
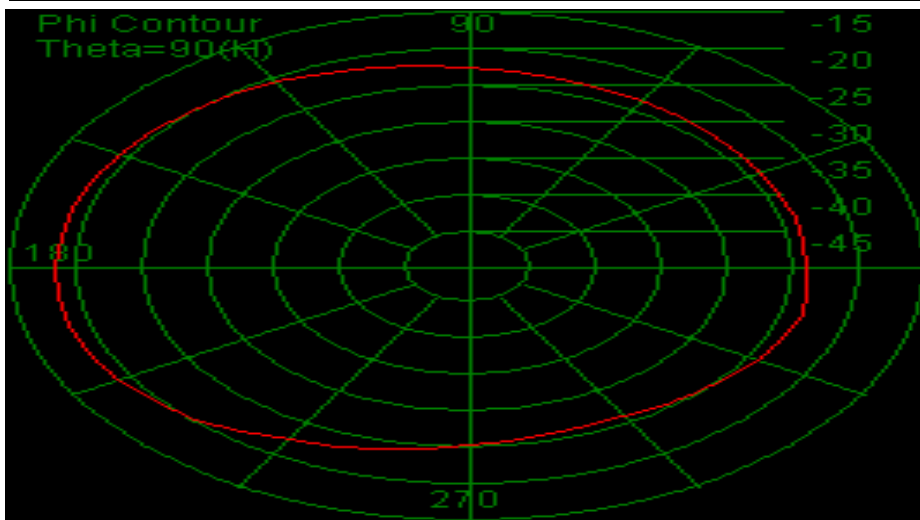
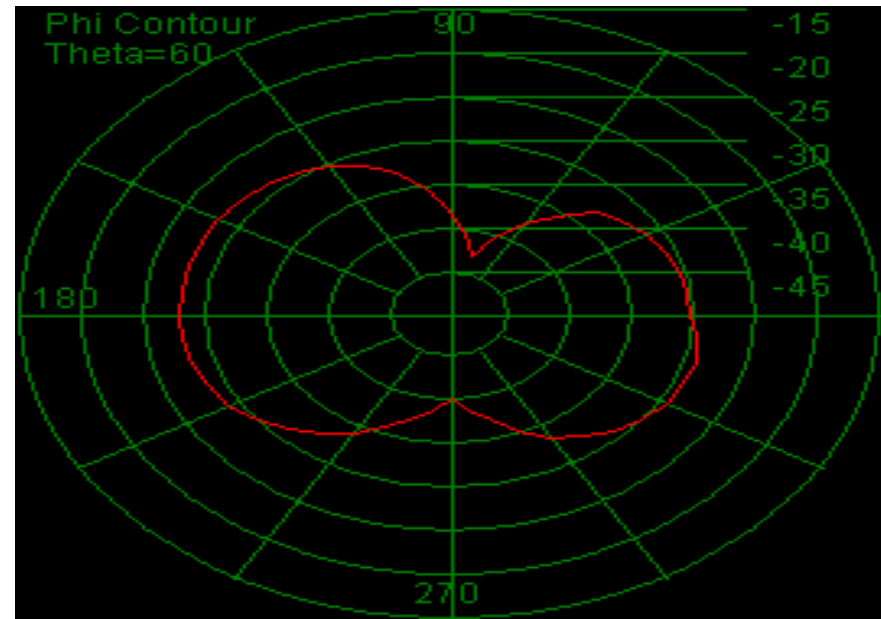
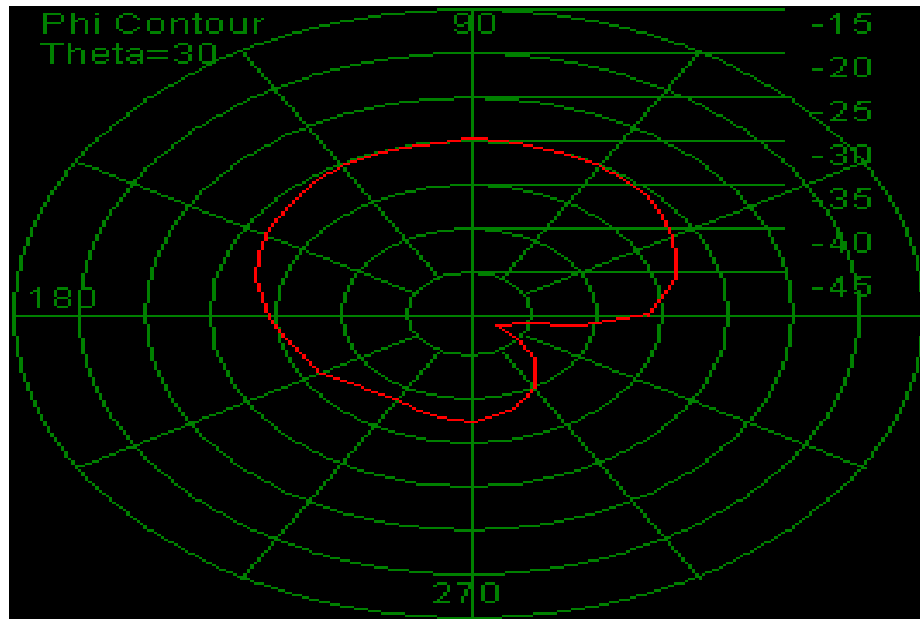
Bluetooth parameters

2420mhz



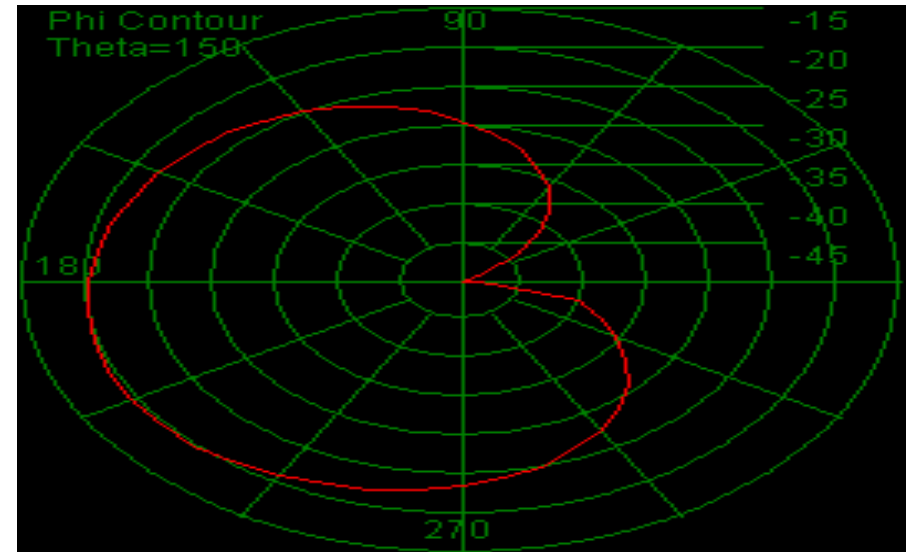
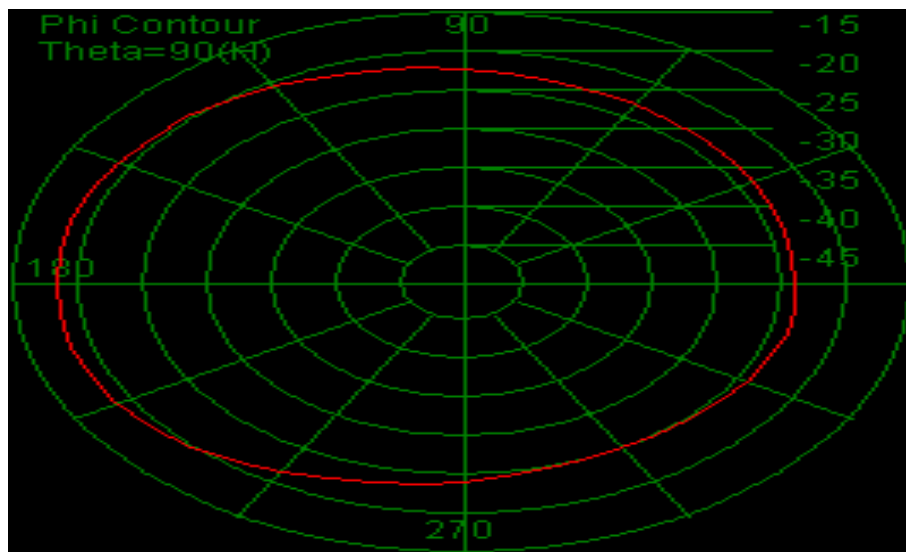
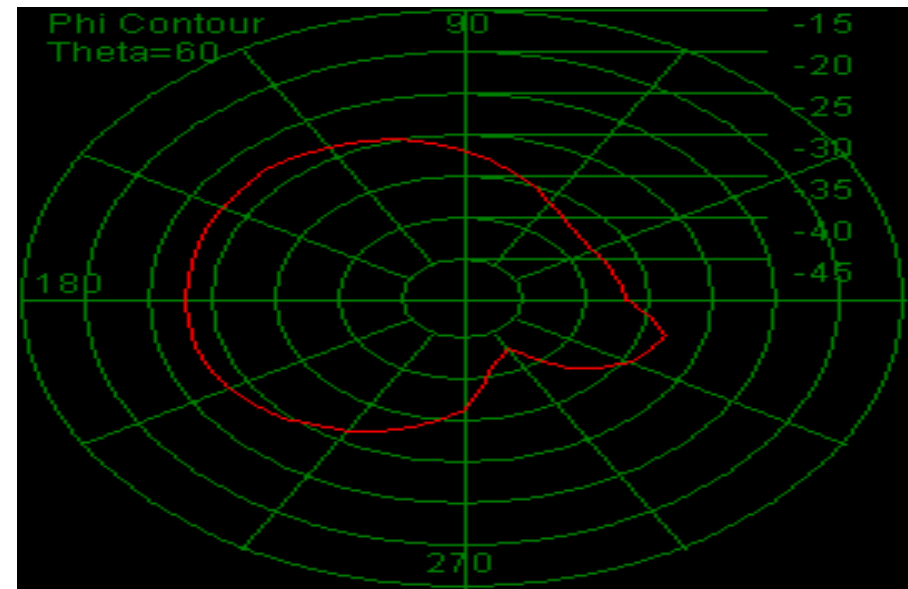
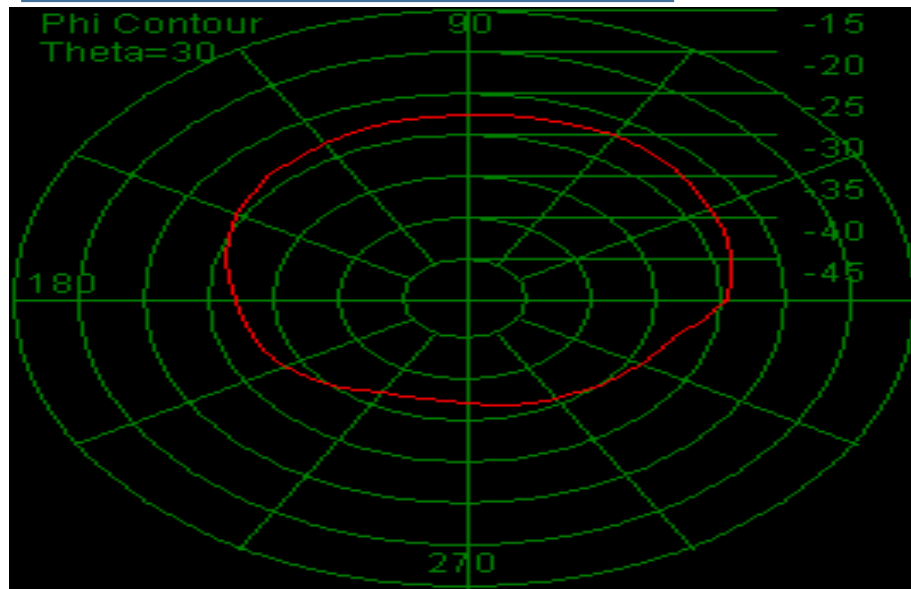
Bluetooth parameters

2440mhz



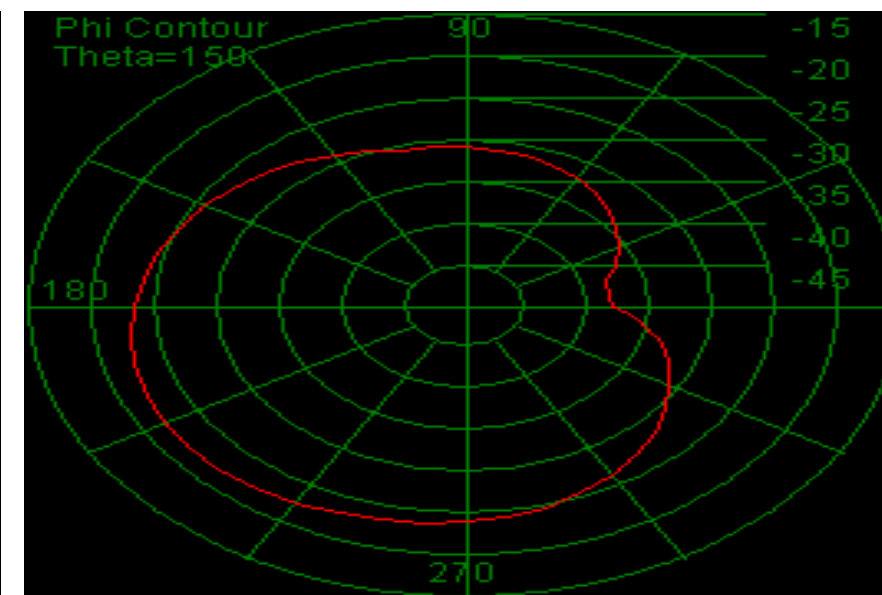
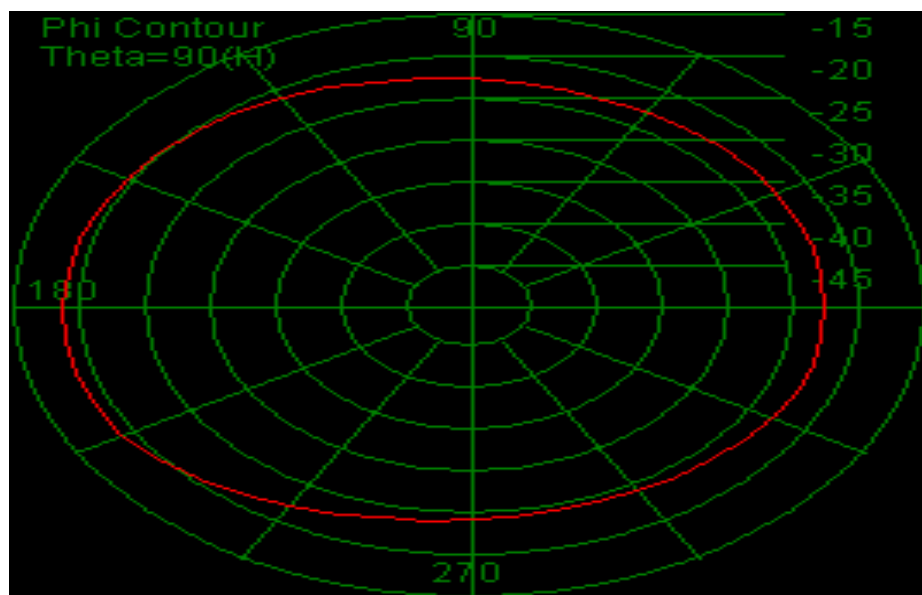
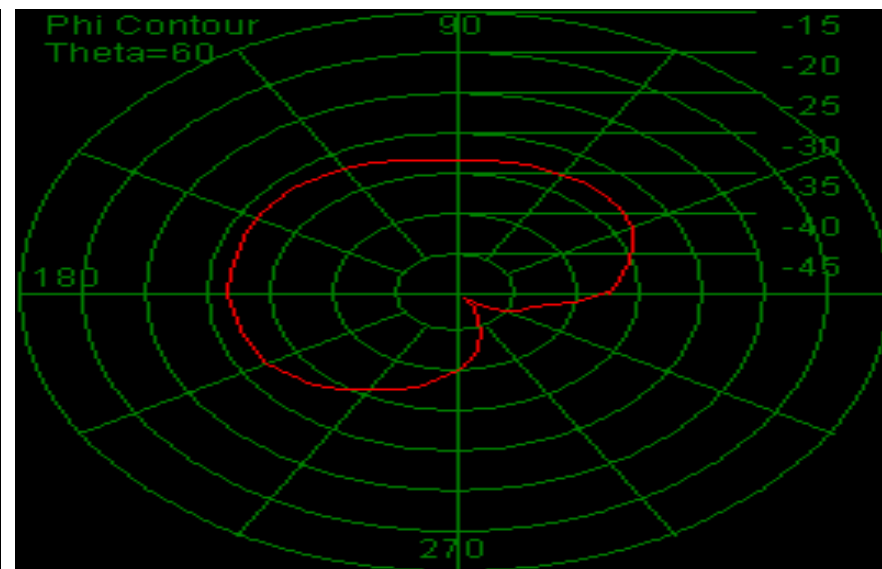
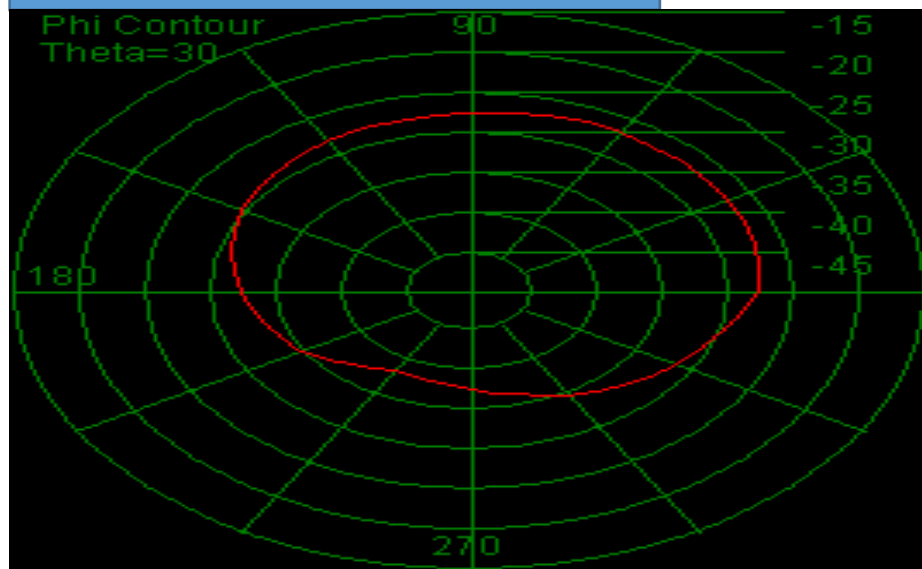
Bluetooth parameters

2460mhz



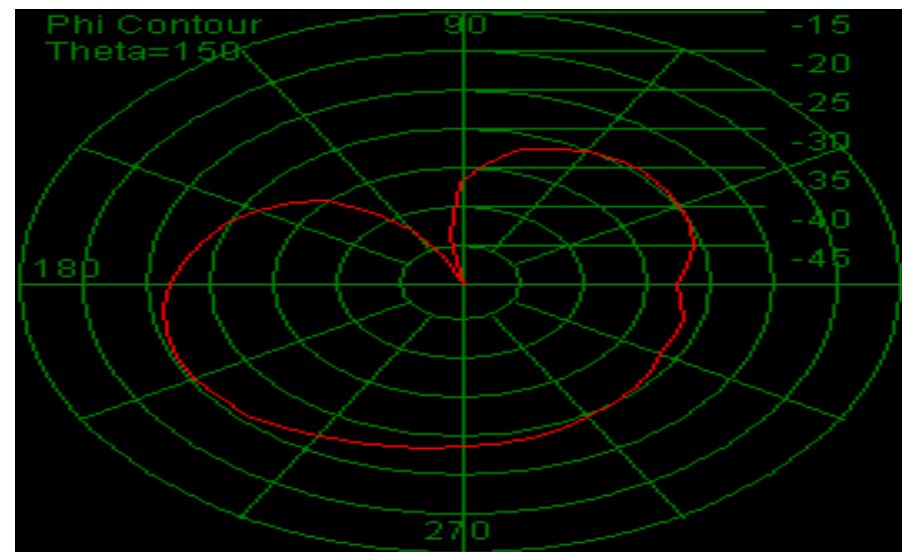
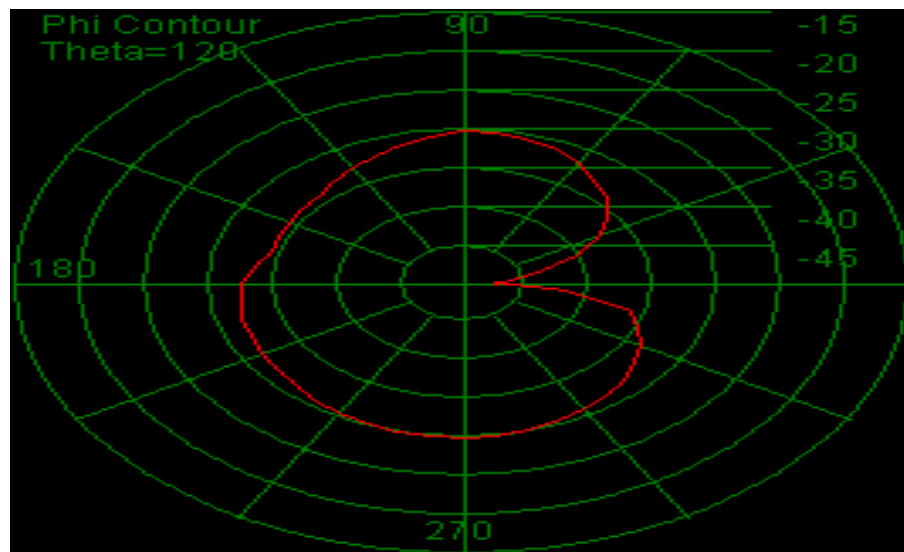
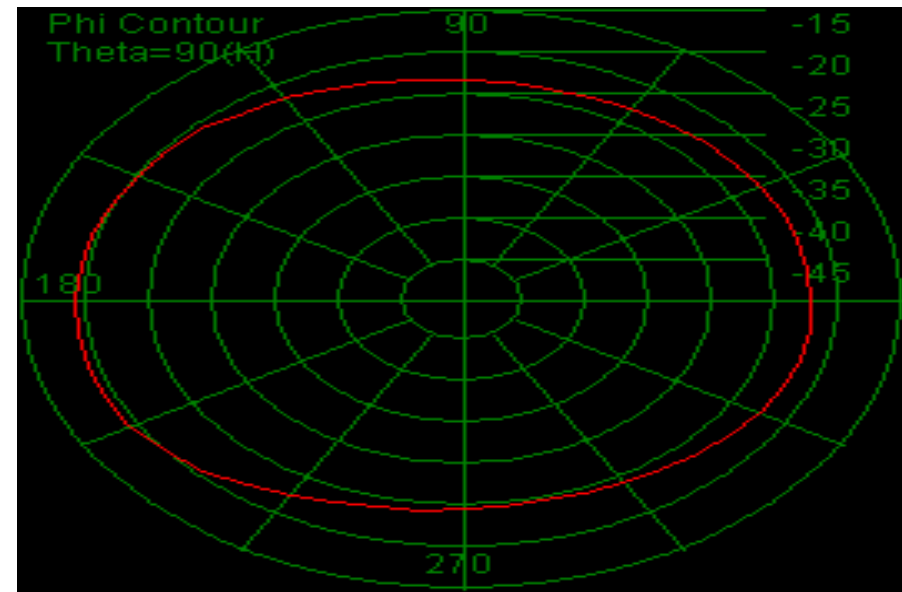
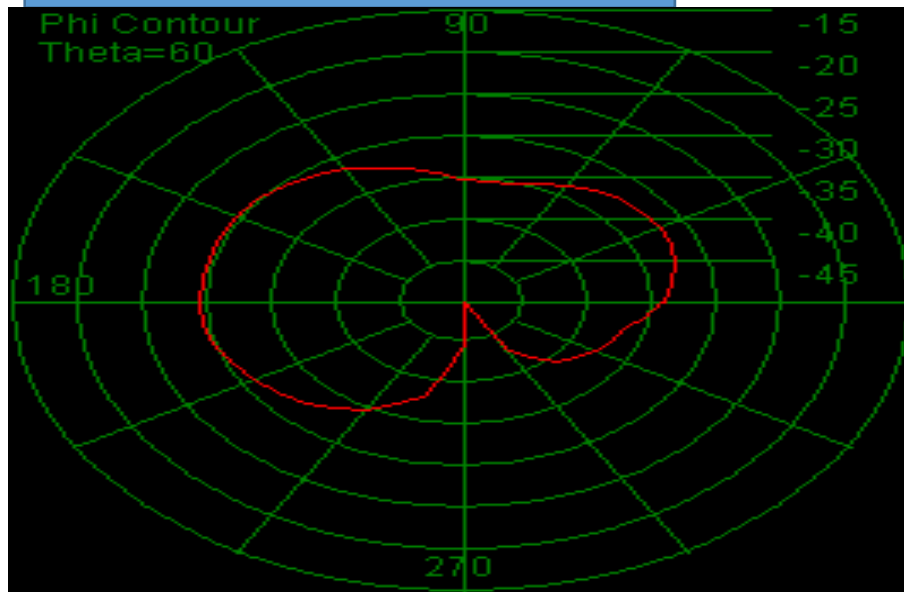
Bluetooth parameters

2480mhz



Bluetooth parameters

2500mhz





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