

The background is a teal color with a faint image of a modern building's facade on the left side. Several thin white circles of varying sizes are scattered across the page, some containing small white dots.

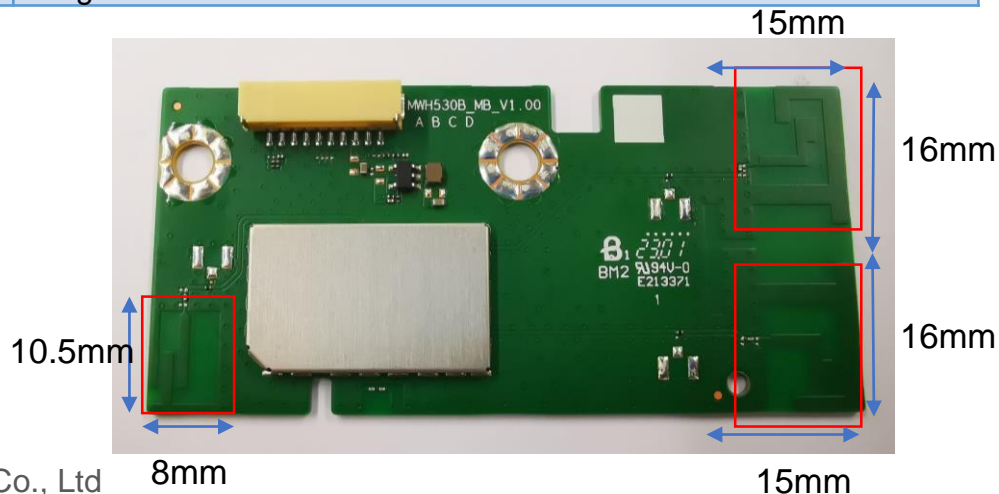
Hisense

MWH530B

Antenna Test Report

2023.02.02

Antenna Model	PCB on-board Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz/5.15~5.85GHz
Max. Gain	WiFi0 :2.35dBi@2.4~2.5GHz , 2.1dBi@5.15~5.85GHz WiFi1:1.22dBi@2.4~2.5GHz , 2.41dBi@5.15~5.85GHz BT:2.08dBi@2.4~2.5GHz
Dimensions	70mm×33mm×5mm
Manufacturer	Hisense Communication Co., Ltd.
Address	Hisense Info. Industrial Park Economic Technology Dev. District
Contact Information	Ding Shizhao Tel:13370851021



WiFi0	CH	Efficiency/%	Efficiency/dB	Gain_dBi	WiFi1	CH	Efficiency/%	Efficiency/dB	Gain_dBi
2.4G	L	45.75	-3.40	1.16	2.4G	L	45.64	-3.41	0.98
	M	47.02	-3.28	1.85		M	46.60	-3.32	0.97
	H	49.40	-3.06	2.35		H	48.53	-3.14	1.22
5G	L	52.94	-2.76	2.10	5G	L	43.10	-3.66	2.41
	M	38.64	-4.13	1.54		M	30.77	-5.12	0.84
	H	30.60	-5.22	-4.12		H	33.69	-4.72	0.98

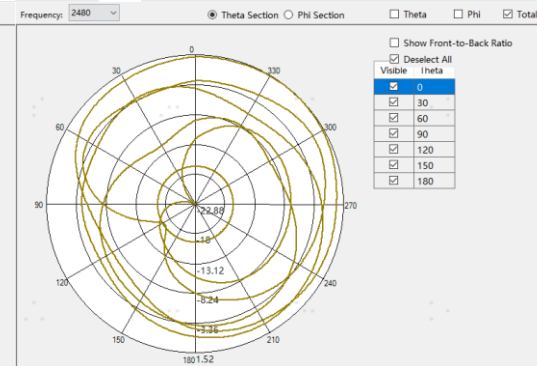
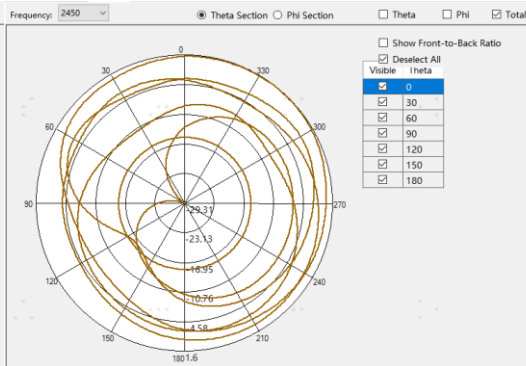
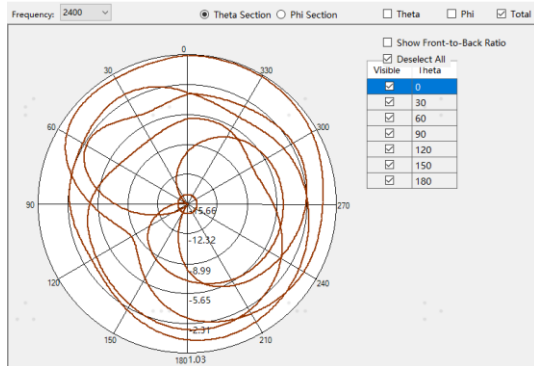
BT	CH	Efficiency/%	Efficiency/dB	Gain_dBi
2.4G	L	39.65	-4.02	2.08
	M	28.12	-5.51	0.52
	H	18.71	-7.28	-1.15

WiFi0 ANT 2.4G: L Band

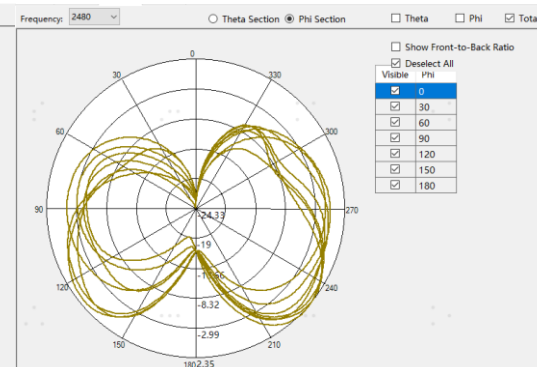
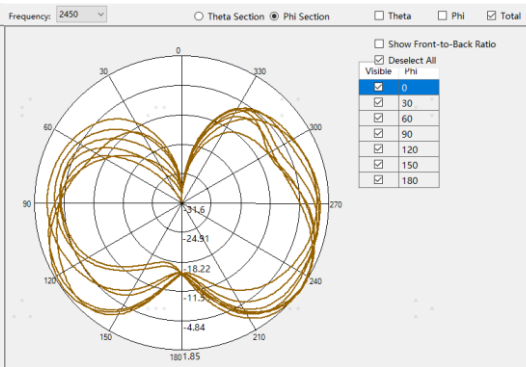
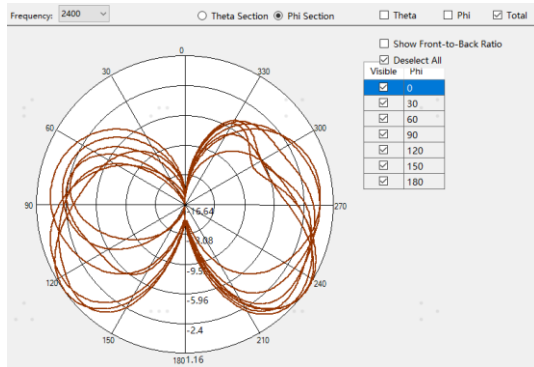
M Band

H Band

Theta Section



Phi Section

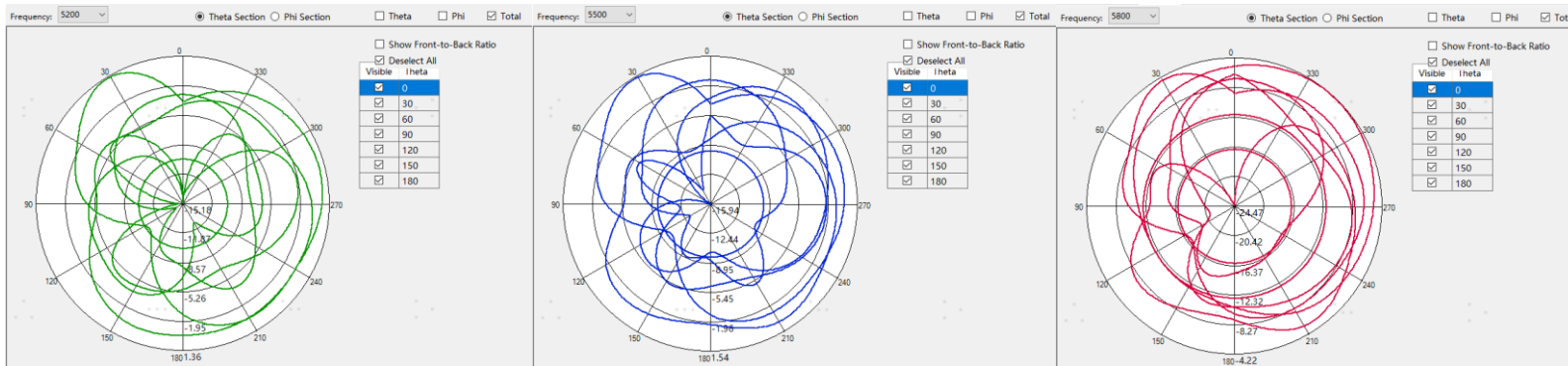


WiFi0 ANT 5G: L Band

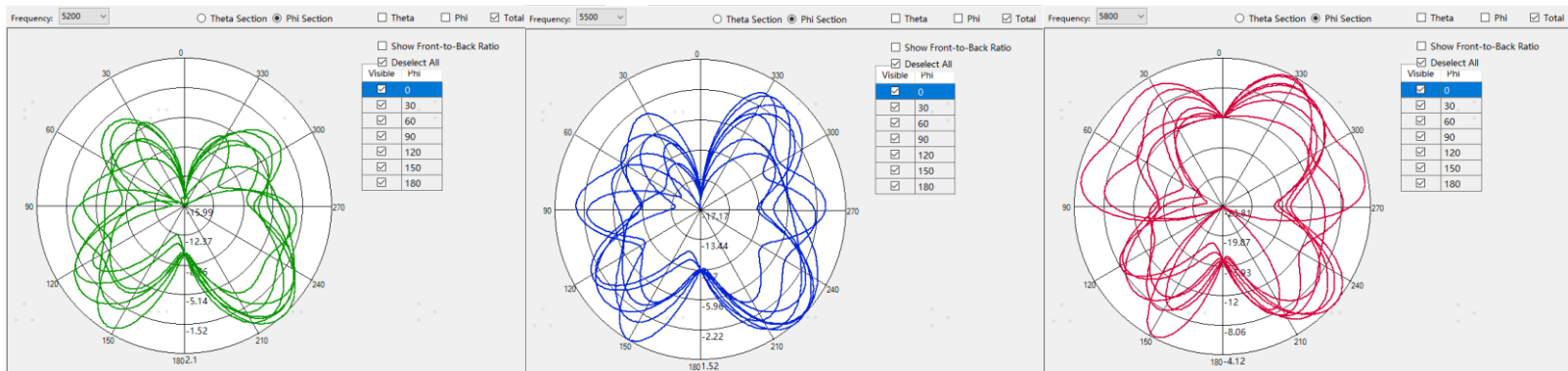
M Band

H Band

Theta Section



Phi Section

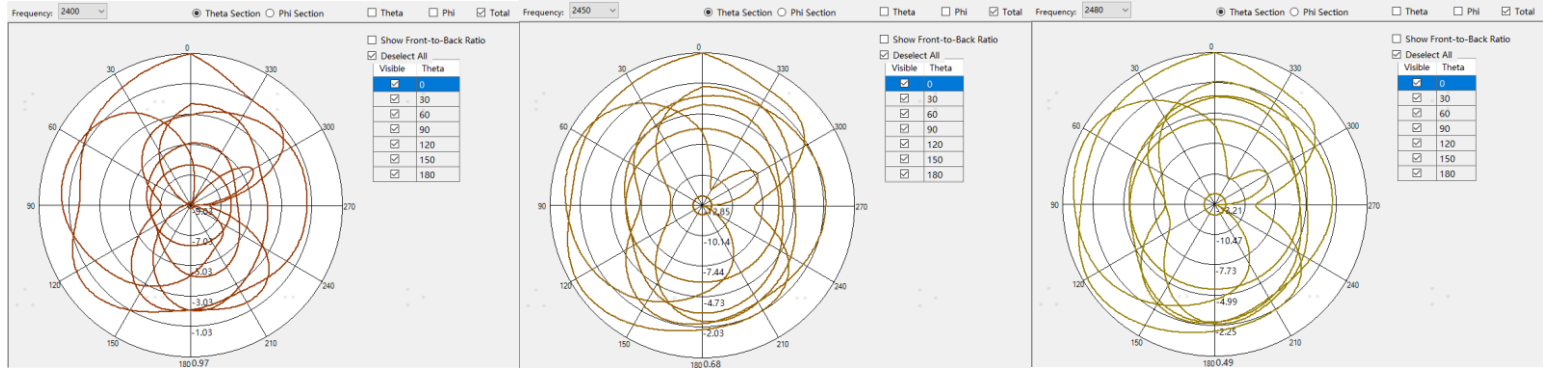


WiFi1 ANT 2.4G: L Band

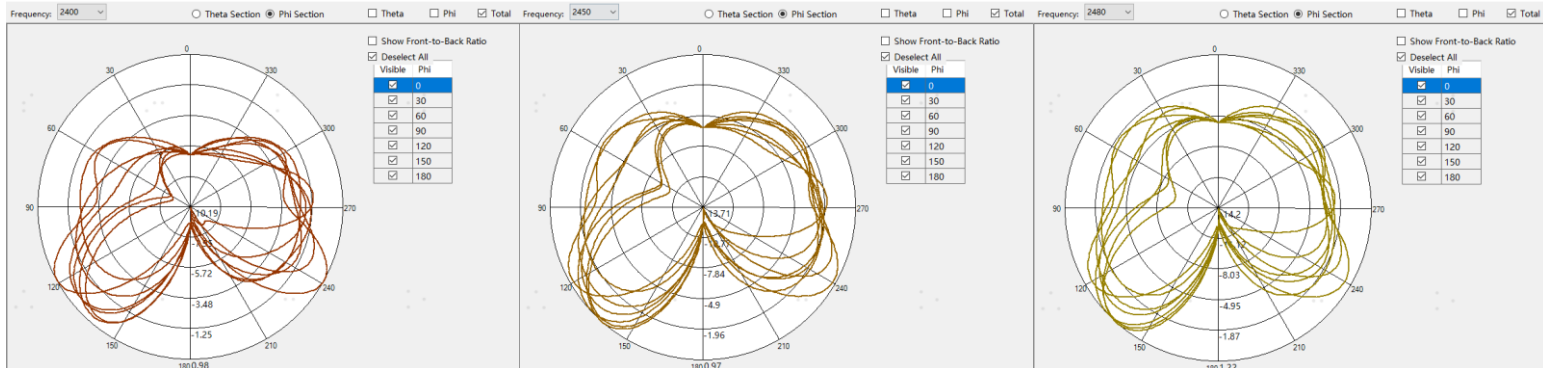
M Band

H Band

Theta Section



Phi Section

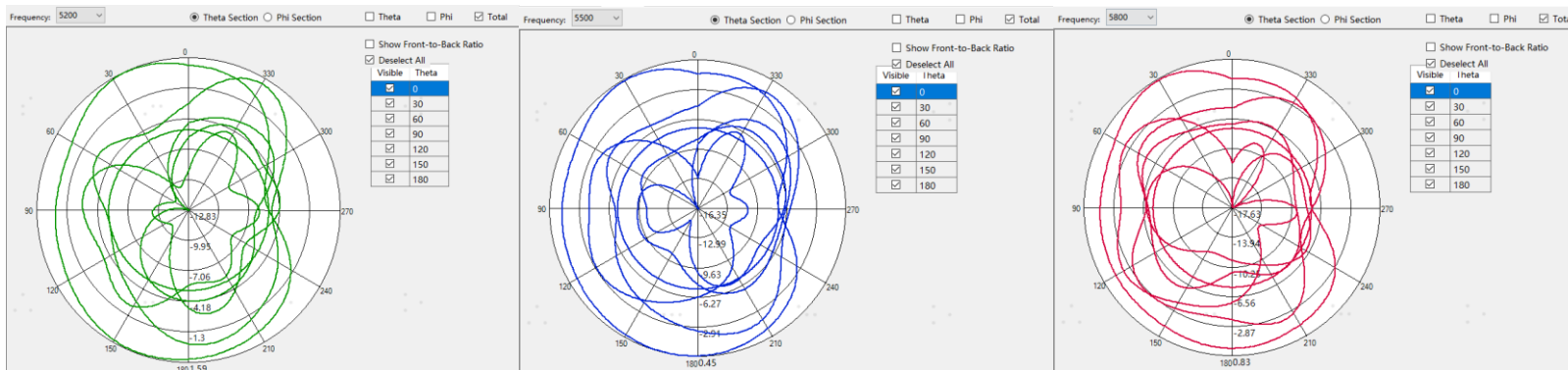


WiFi1 ANT 5G: L Band

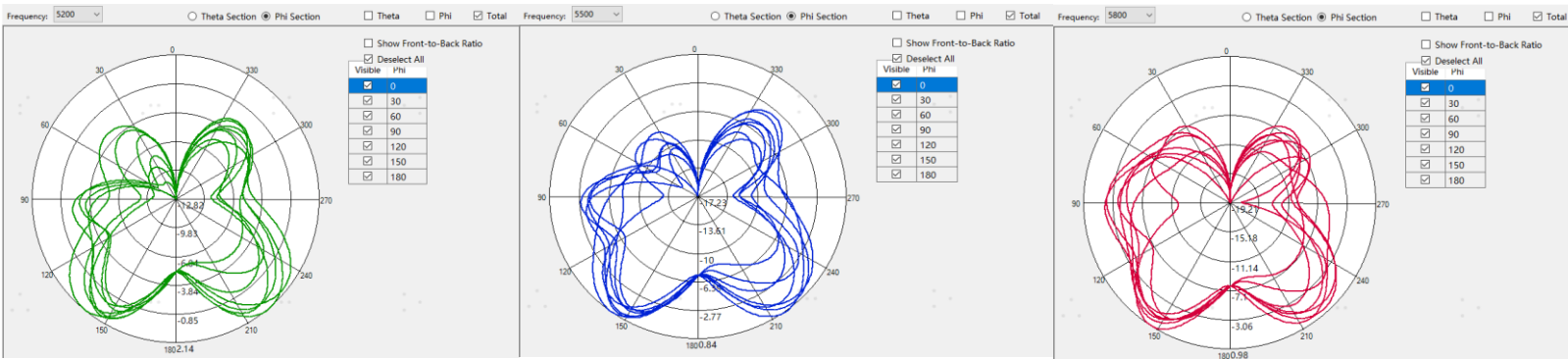
M Band

H Band

Theta Section



Phi Section

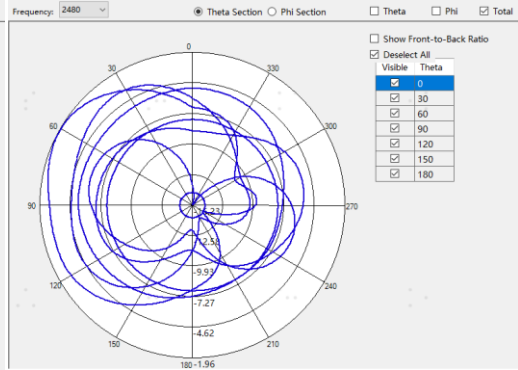
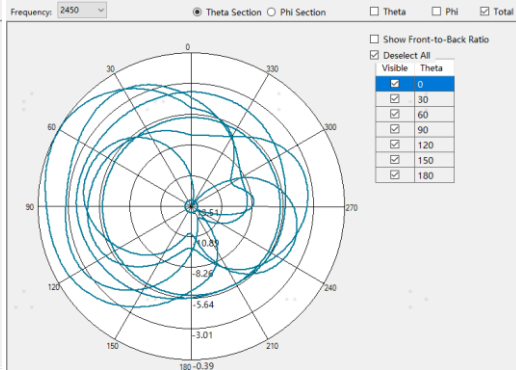
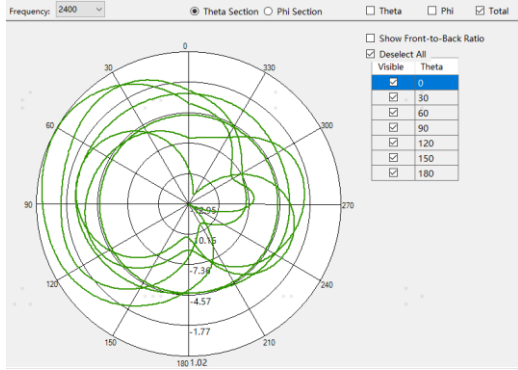


BT ANT 2.4G: L Band

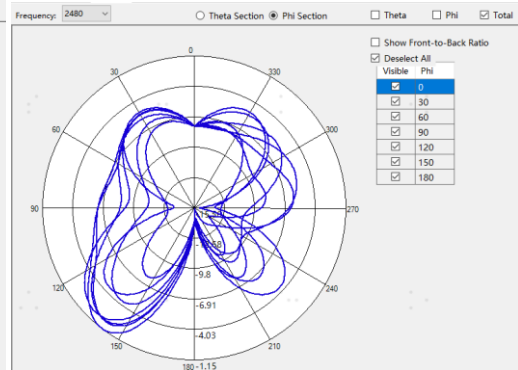
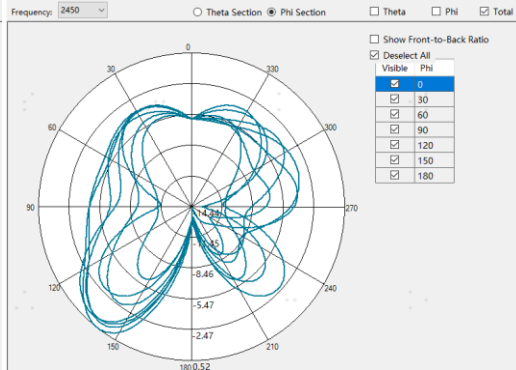
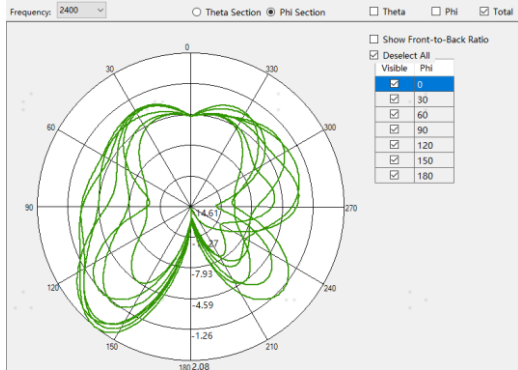
M Band

H Band

Theta Section



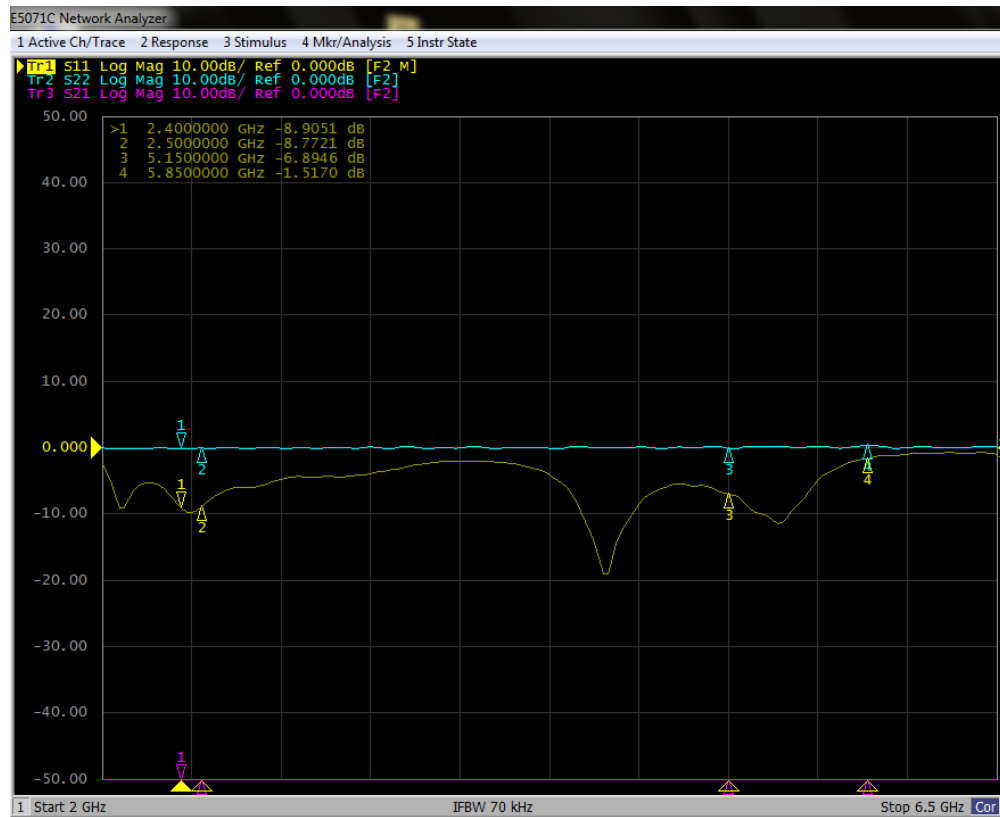
Phi Section



Wi-Fi0 ANT:

2.4G: L:-8.9dB M:-10dB H:-8.7dB

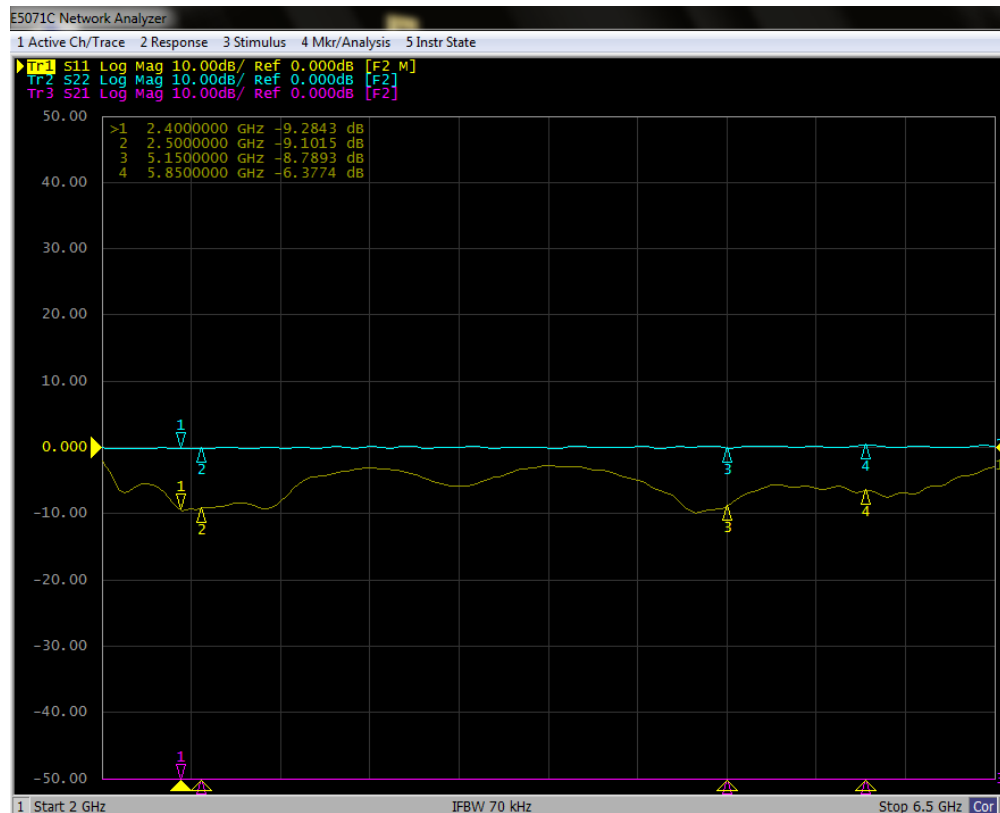
5G: L:-6.9dB M:-10dB H:-1.5dB



Wi-Fi1 ANT:

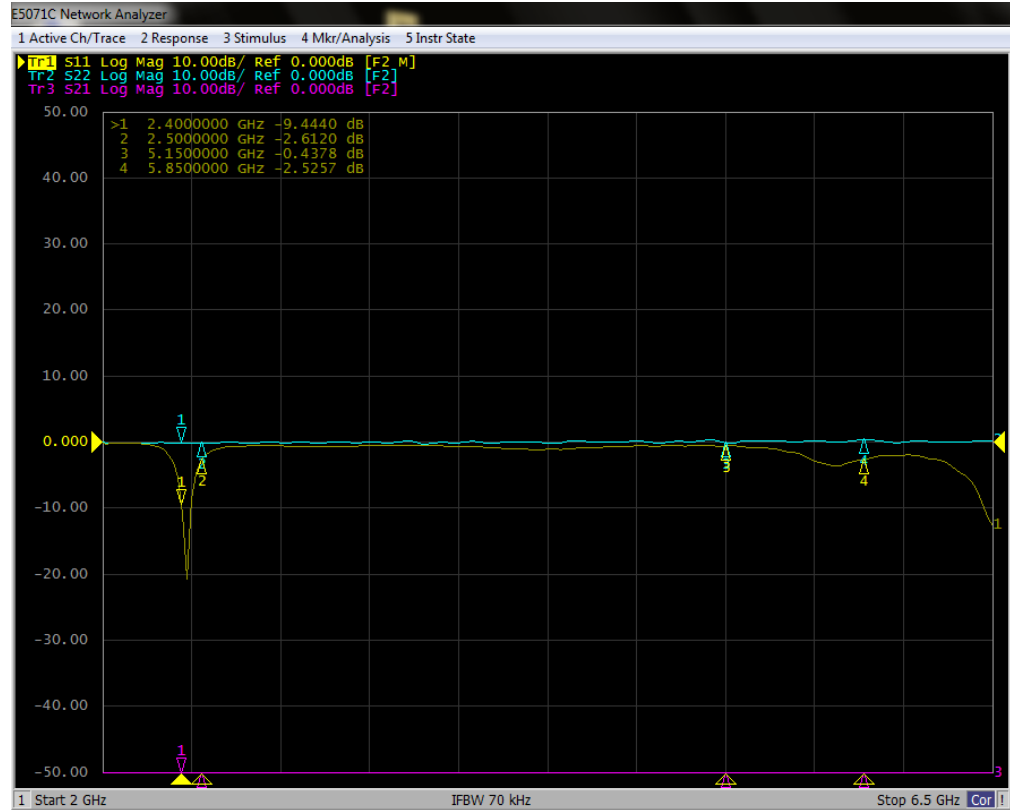
2.4G: L:-9.3dB M:-10dB H:-9.1dB

5G: L:-8.8dB M:-6dB H:-6.4dB

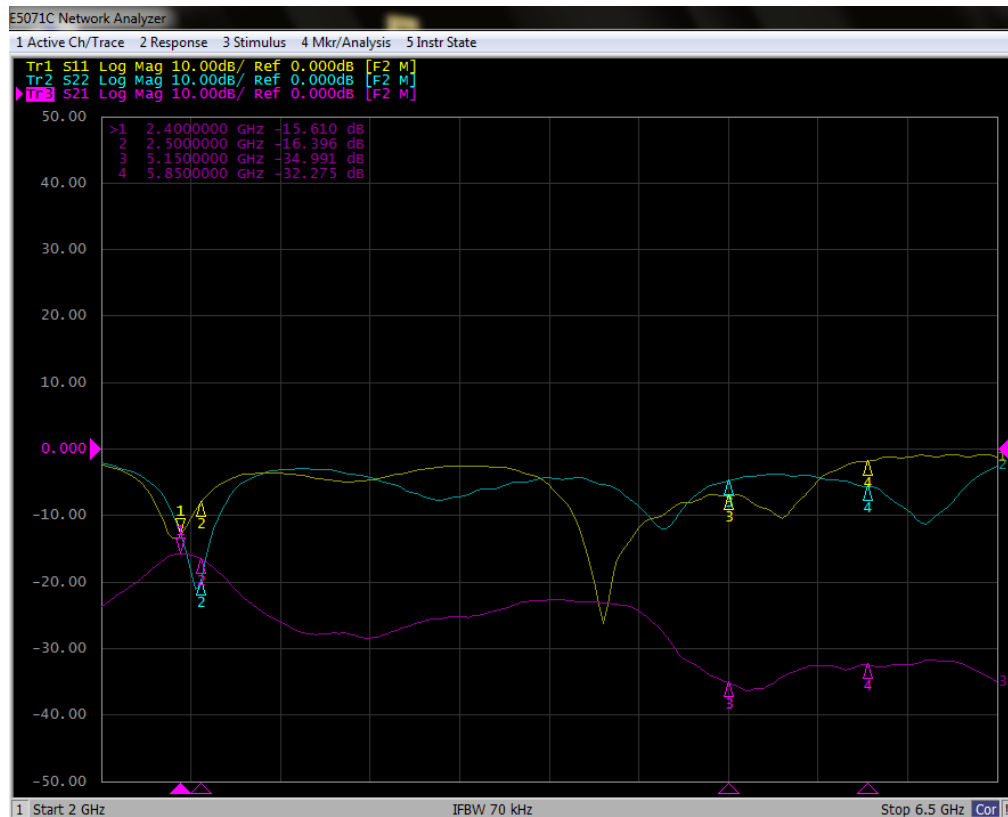


BT ANT:

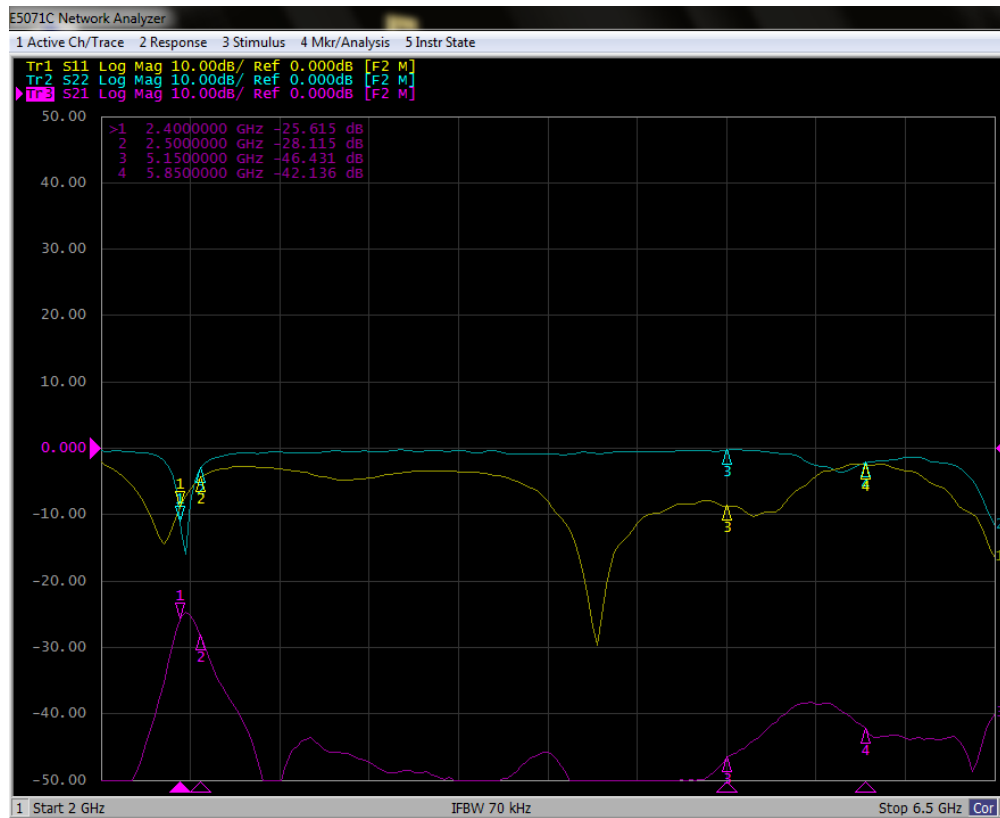
2.4G: L:-9.4dB M:-15dB H:-2.6dB



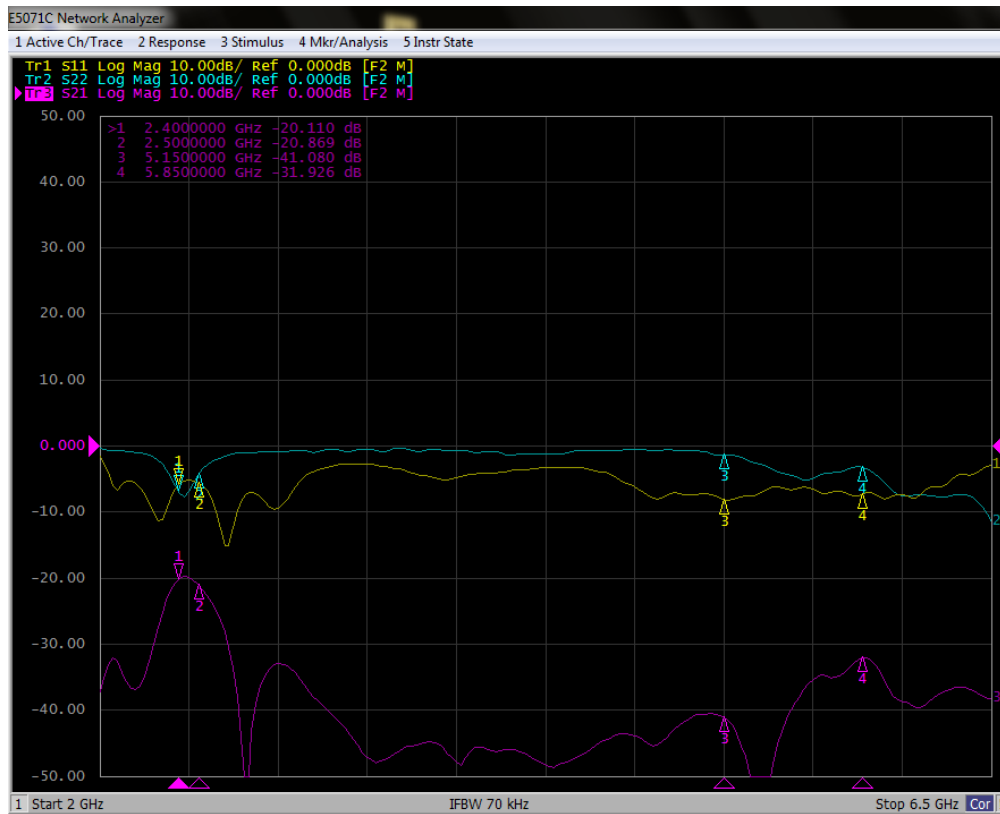
Isolation between Wi-Fi0 and Wi-Fi1
 2.4G: L:-15.6dB M:-15.5dB H:-16.4dB
 5G: L:-35dB M:-32dB H:-32dB



Isolation between Wi-Fi0 and BT
2.4G: L:-25.6dB M:-26dB H:-28dB



Isolation between Wi-Fi1 and BT
2.4G: L:-20dB M:-20.5dB H:-20.9dB





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Thanks