

Hisense



FIFA WORLD CUP
Qatar 2022

2022世界杯™官方赞助商



MWH536B

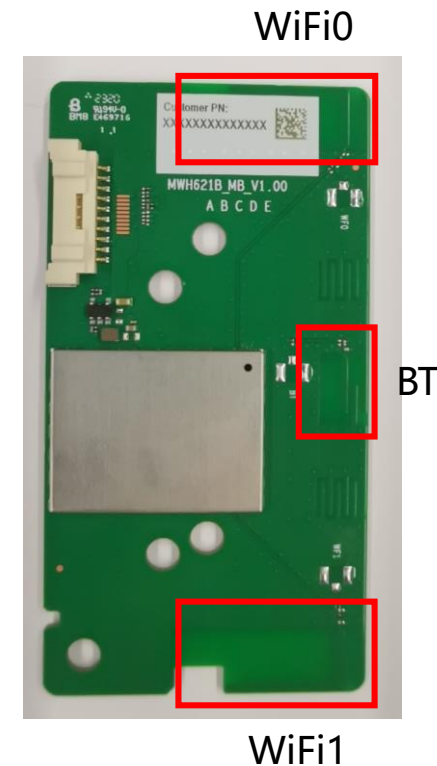
Antenna Test Report

2023.06.26

WiFi0	
Antenna Type	Monopole Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz/5.15~5.85GHz
Return Loss	2.4GHz~2.5GHz: $S_{11} \leq -10\text{dB}$ 5.15GHz~5.85GHz: $S_{11} \leq -6\text{dB}$.
Peak Gain	1.5dBi@2.4~2.5GHz , 3.0dBi@5.15~5.85GHz
Efficiency	2.4~2.5GHz $\geq 60\%$ (Avg) , 5.15~5.85GHz $\geq 52\%$ (Avg)

WiFi1	
Antenna Type	Monopole Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz/5.15~5.85GHz
Return Loss	2.4GHz~2.5GHz: $S_{11} \leq -10\text{dB}$ 5.15GHz~5.85GHz: $S_{11} \leq -6\text{dB}$.
Peak Gain	1.2dBi@2.4~2.5GHz , 2.0dBi@5.15~5.85GHz
Efficiency	2.4~2.5GHz $\geq 61\%$ (Avg) , 5.15~5.85GHz $\geq 55\%$ (Avg)

BT	
Antenna Type	Monopole Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz
Return Loss	$S_{11} \leq -6\text{dB}$
Peak Gain	-1.2dBi
Efficiency	$\geq 36\%$ (Avg)



WiFi0	CH	Gain/dBi	Efficiency/%
2.4G	L	0.62	58
	M	1.09	61
	H	1.32	65
5G	L	2.47	58
	M	1.45	49
	H	2.58	58

WiFi1	CH	Gain/dBi	Efficiency/%
2.4G	L	-0.68	50
	M	-0.37	53
	H	0.99	58
5G	L	2.27	53
	M	2.02	50
	H	2.61	56

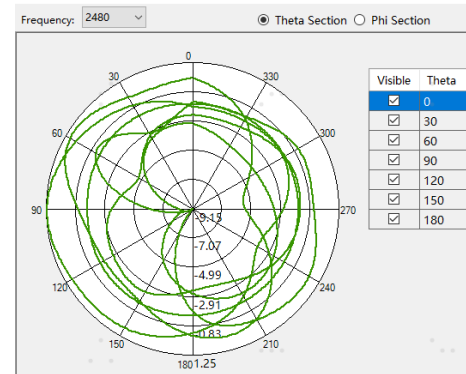
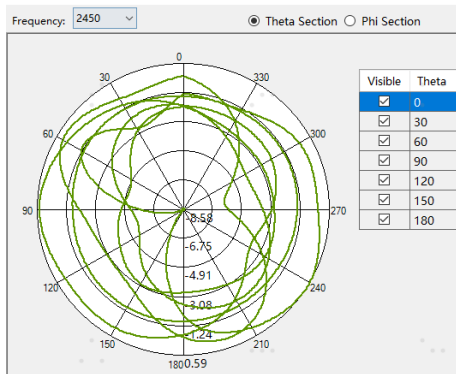
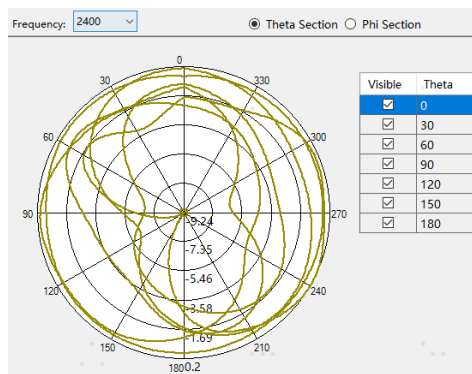
BT	CH	Gain/dBi	Efficiency/%
2.4G	L	-3.98	22
	M	-5.01	25
	H	-4.70	30

WiFi0 2.4G: L Band

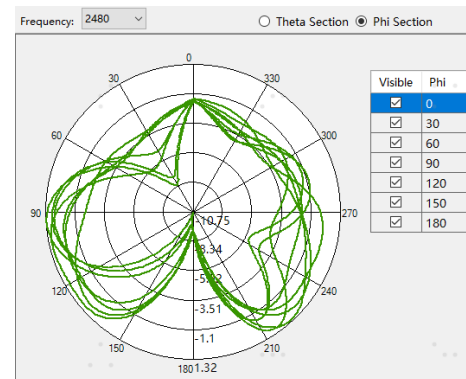
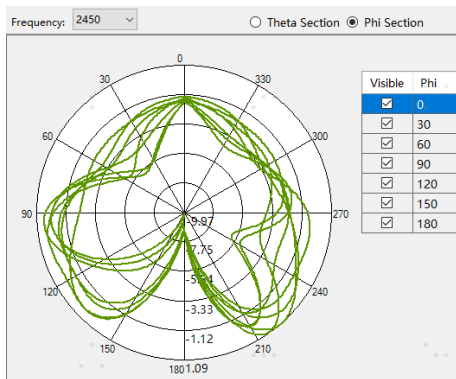
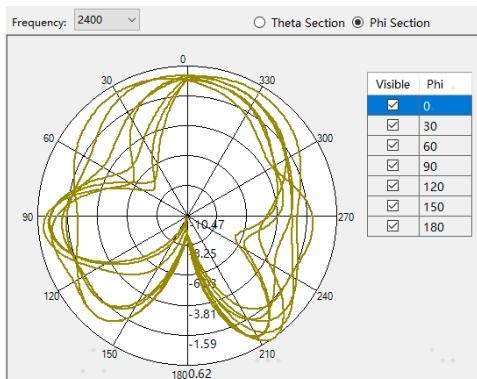
M Band

H Band

Theta Section



Phi Section



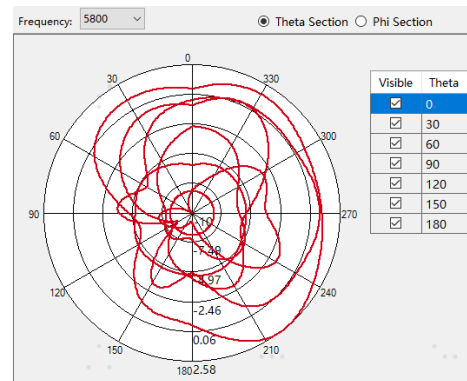
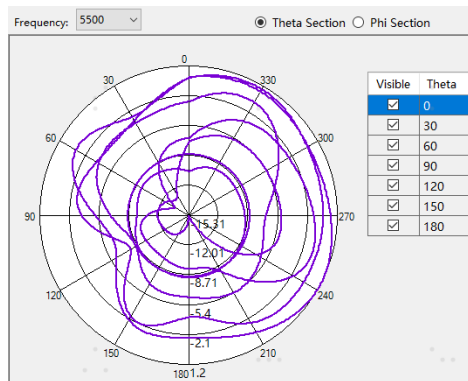
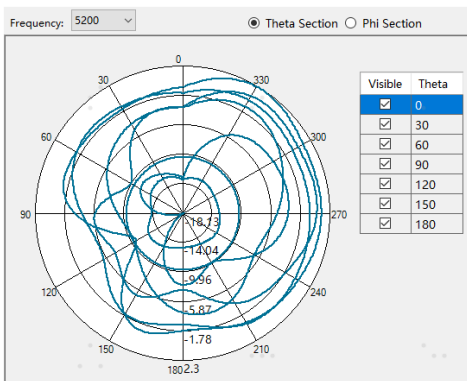
WiFi0 5G:

L Band

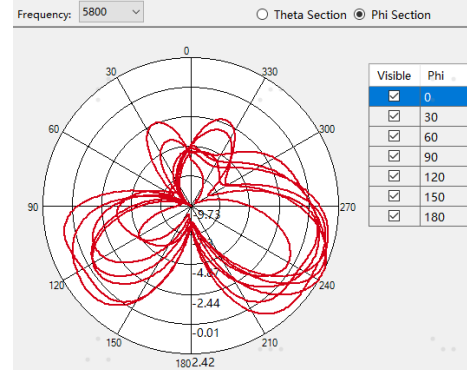
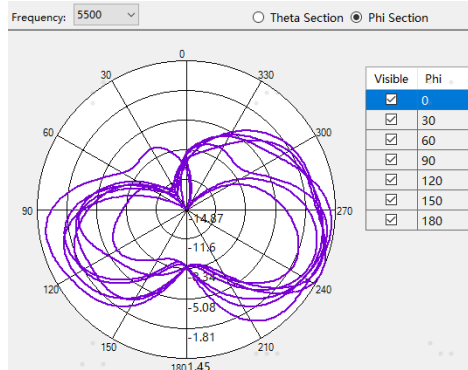
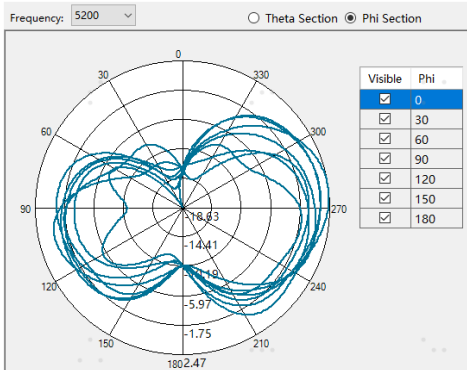
M Band

H Band

Theta Section



Phi Section



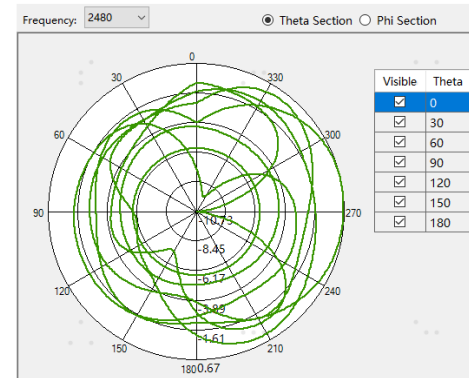
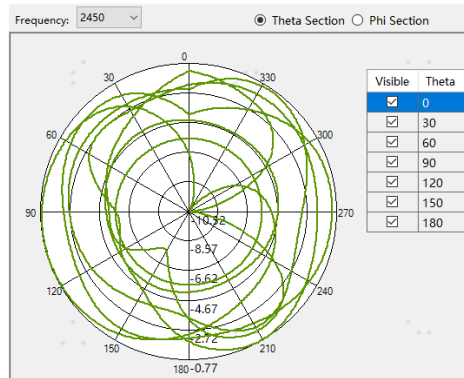
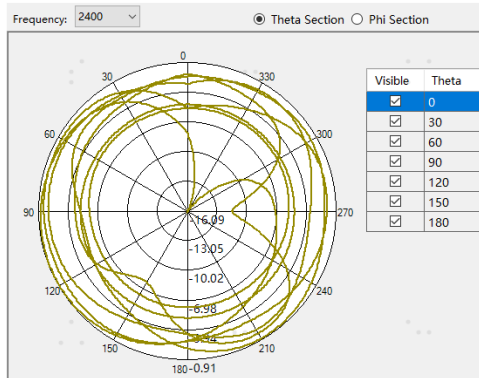
ANT Directivity Pattern

WiFi1 2.4G: L Band

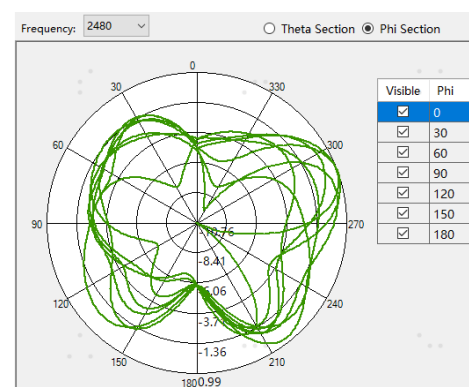
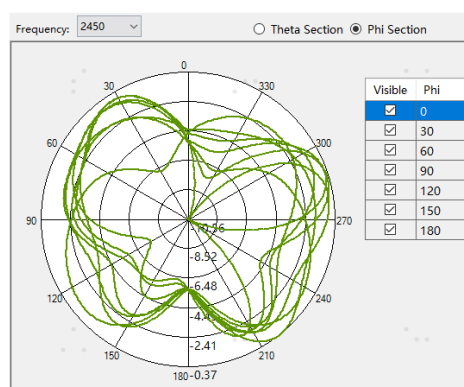
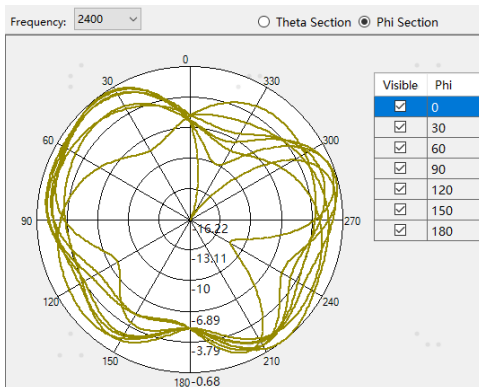
M Band

H Band

Theta
Section



Phi
Section



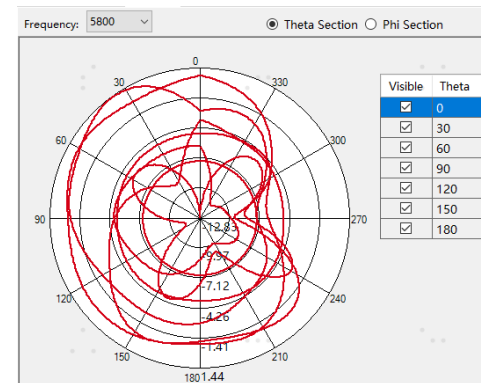
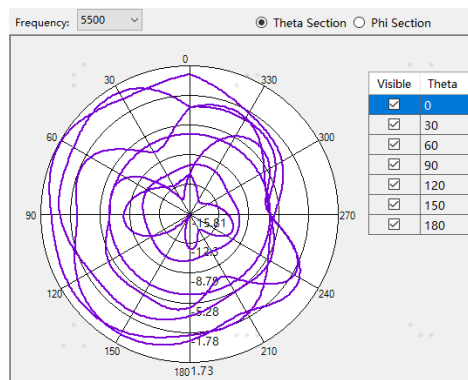
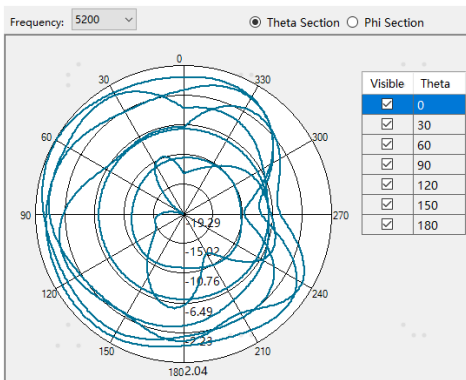
ANT Directivity Pattern

WiFi1 5G: L Band

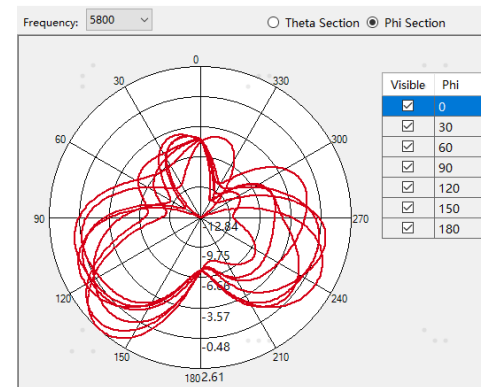
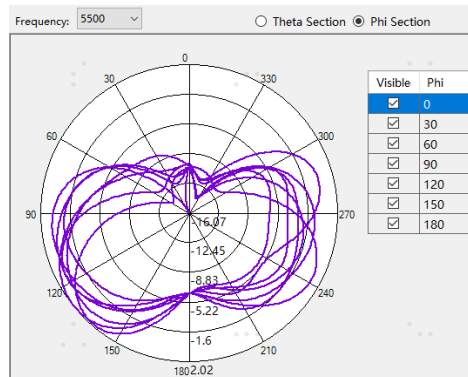
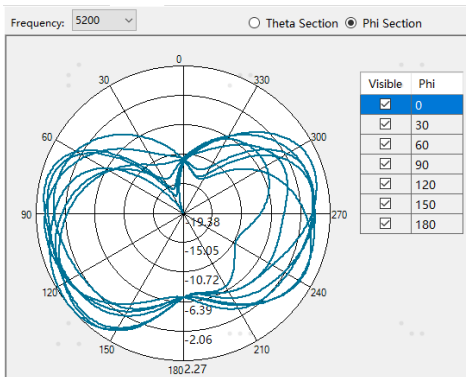
M Band

H Band

Theta
Section



Phi
Section

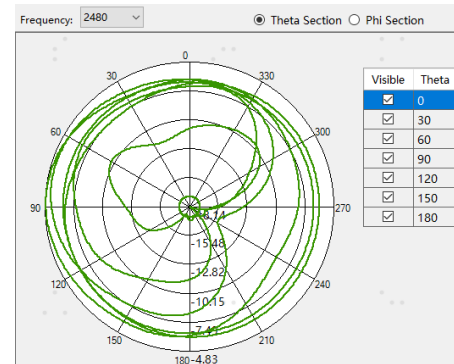
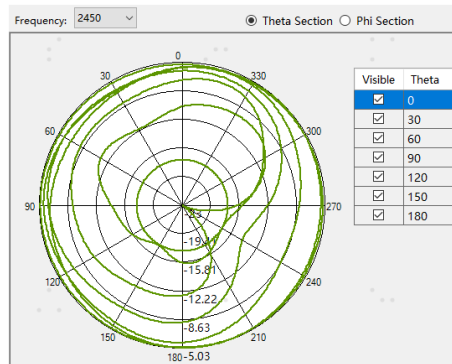
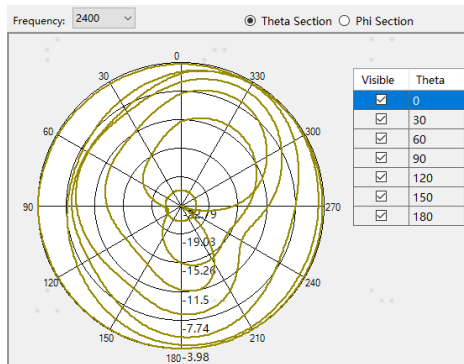


BT 2.4G: L Band

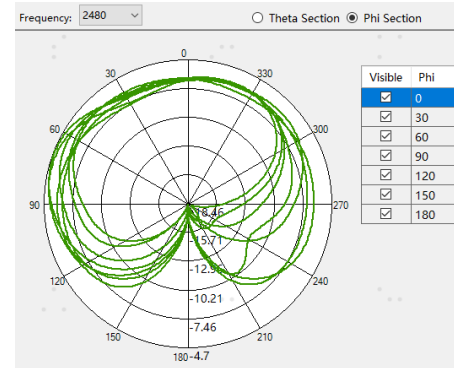
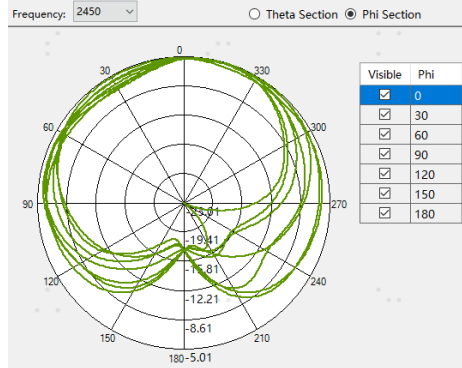
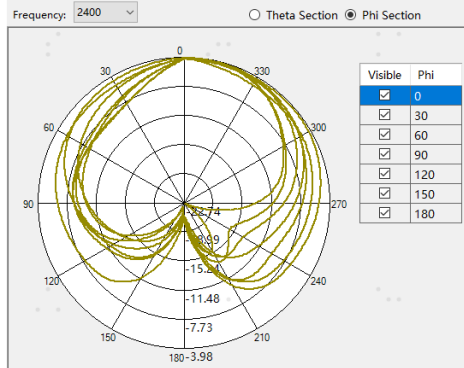
M Band

H Band

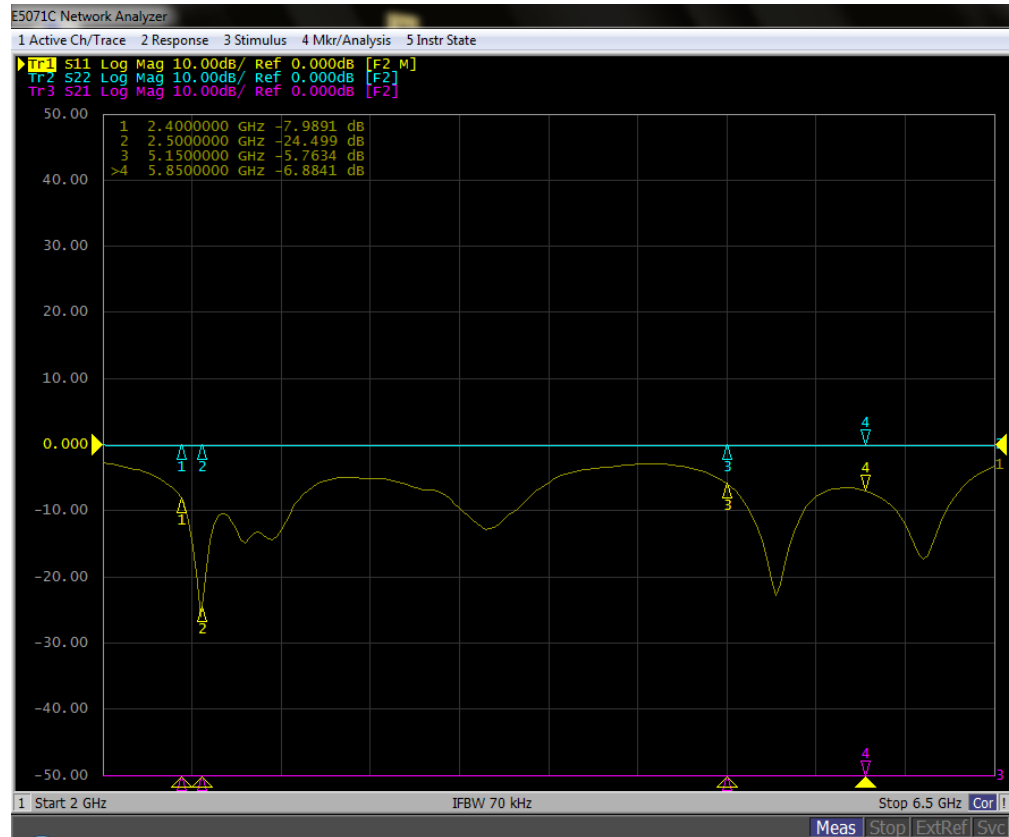
Theta Section



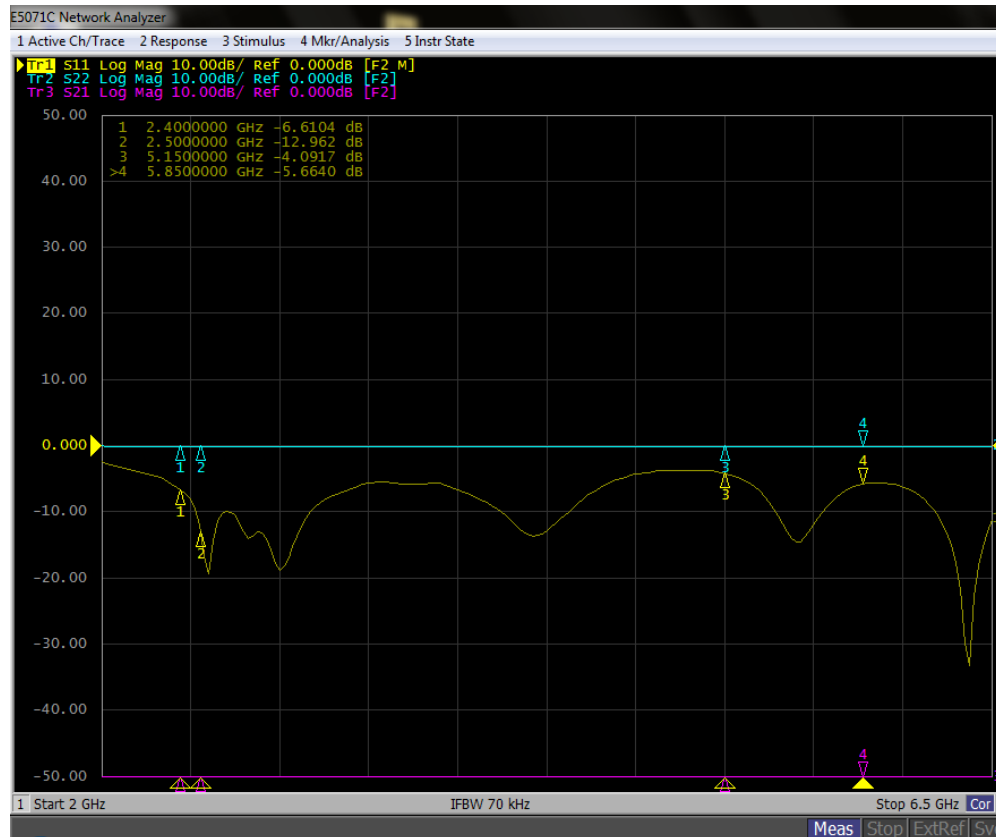
Phi Section



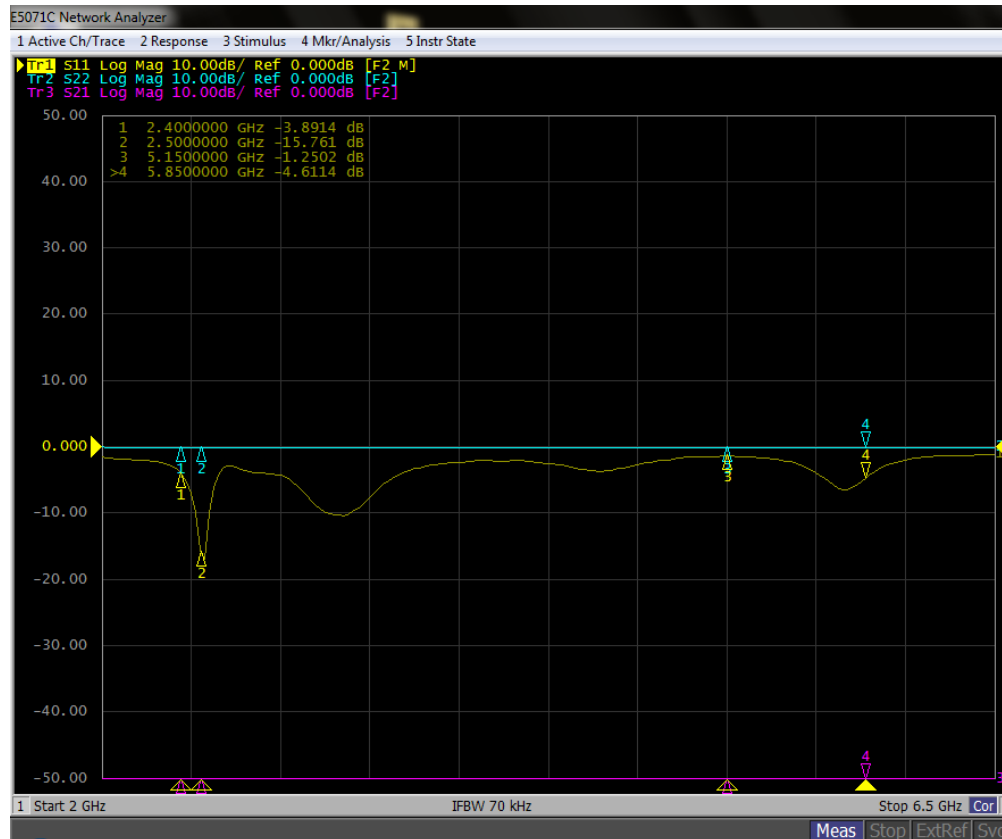
WiFi0 Antenna
2.4-2.5GHz < -8dB
5.15-5.85GHz < -5.7dB



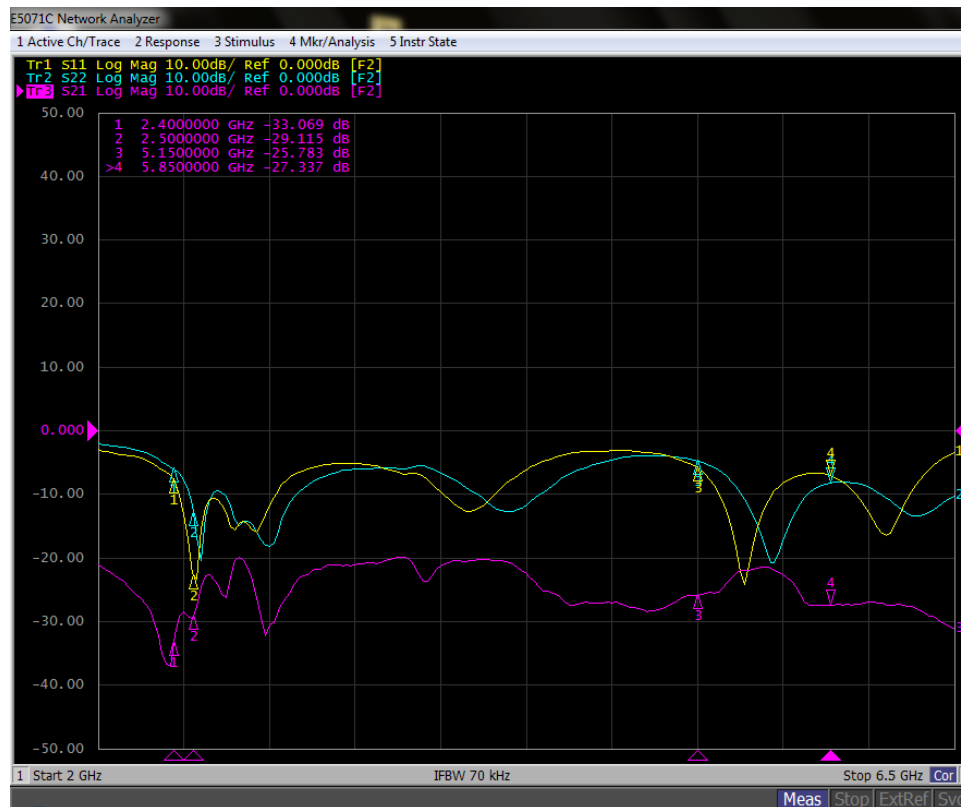
WiFi1 Antenna
2.4-2.5GHz < -6.6dB
5.15-5.85GHz < -4dB



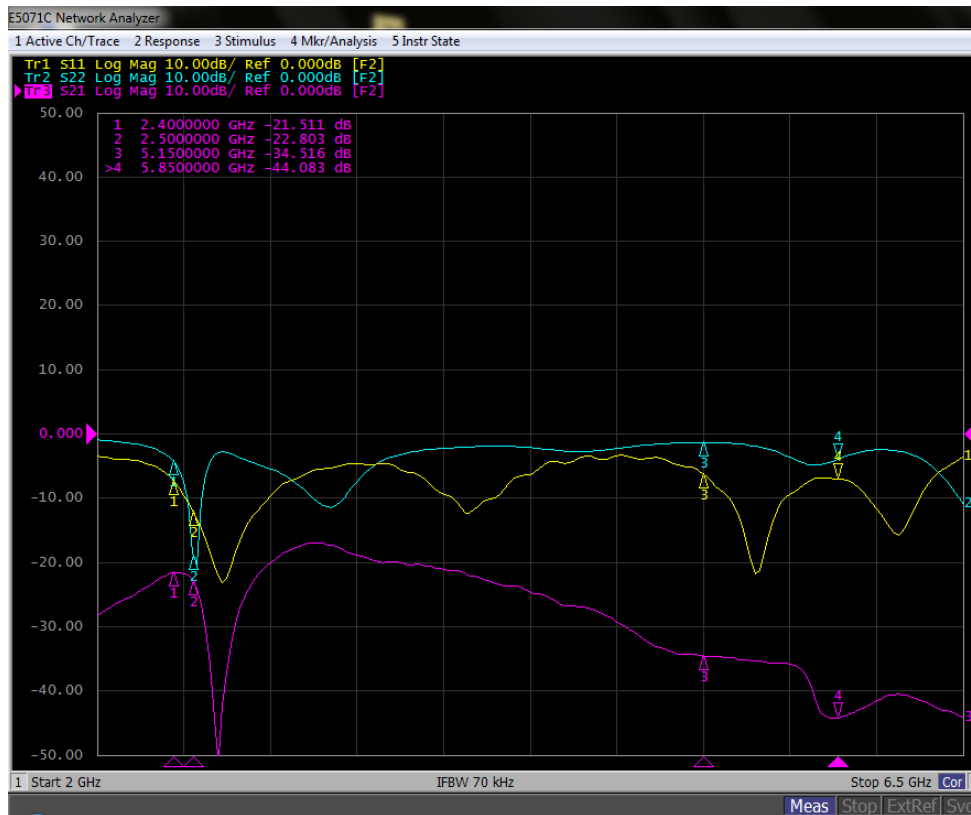
BT Antenna
2.4-2.5GHz < -4dB



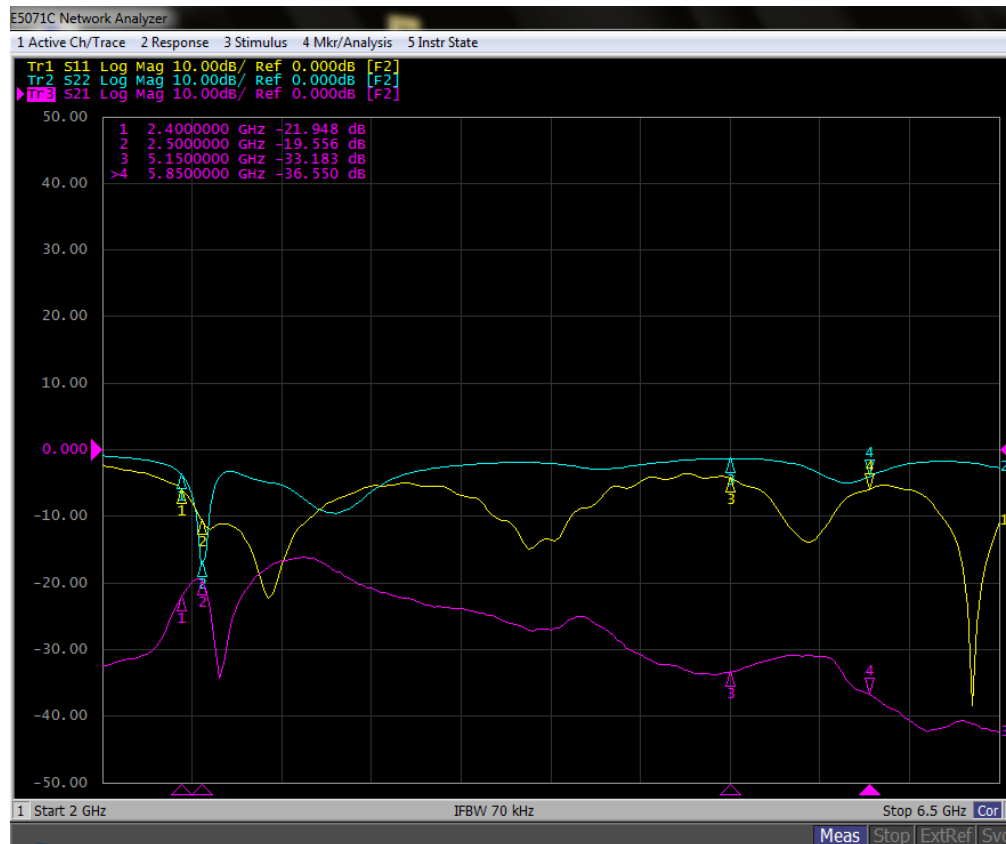
Isolation between WiFi0 and WiFi1
2.4G: L:-33dB M:-28dB H:-29dB
5G: L:-25dB M:-22dB H:-27dB



Isolation between WiFi and BT
2.4G: L:-21.5dB M:-22dB H:-23dB



Isolation between WiFi1 and BT
2.4G: L:-22dB M:-20dB H:-19.5dB



Manufacturer

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