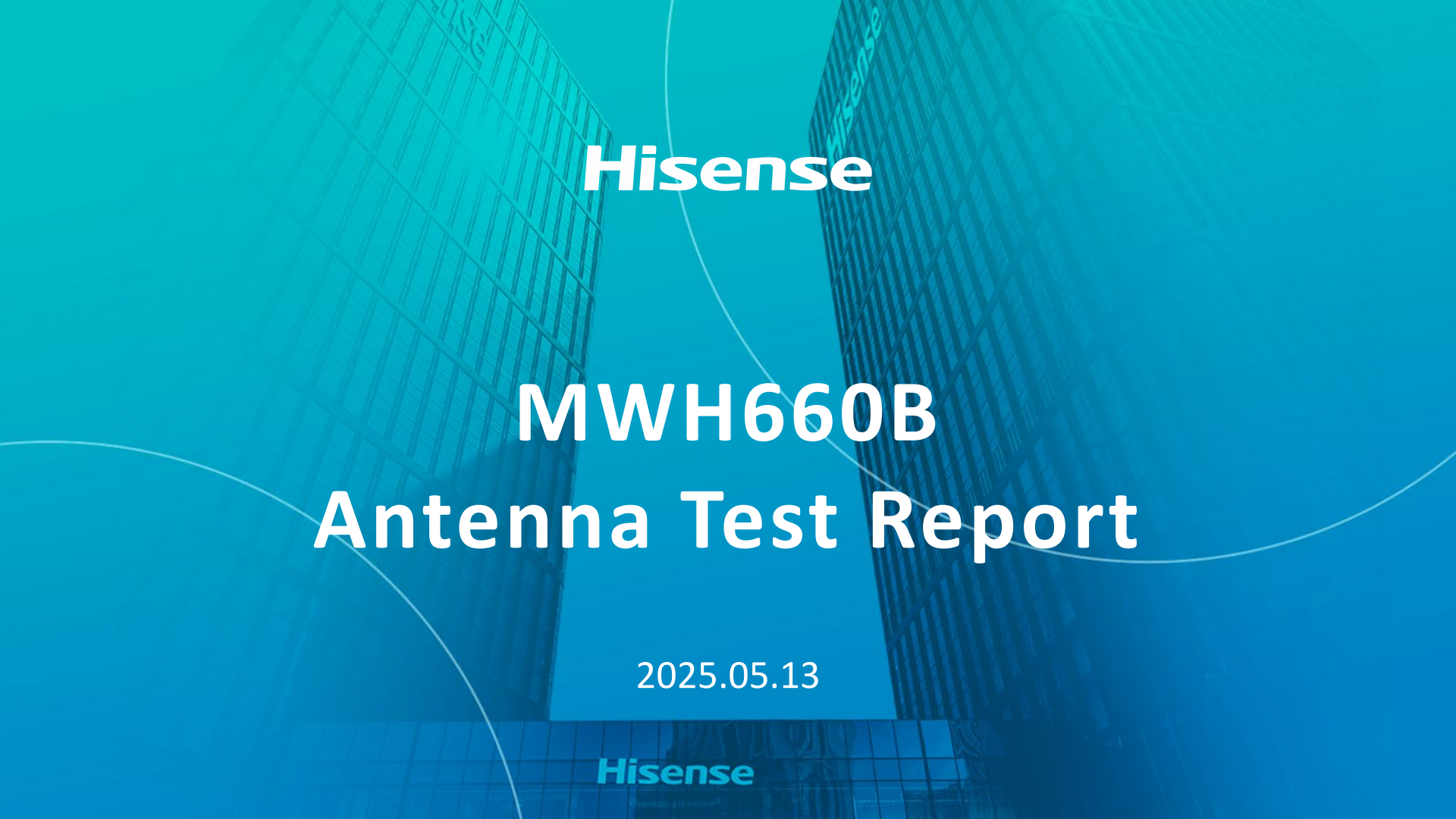




Hisense

MWH660B
Antenna Test Report

2025.05.13

Hisense

Wi-Fi0	
Antenna Type	Monopole Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz/5.15~5.85GHz
Return Loss	2.4GHz~2.5GHz: S11≤-10dB 5.15GHz~5.85GHz: S11≤-10dB.
Peak Gain	3.23dBi@2.4~2.5GHz , 1.86dBi@5.15~5.85GHz
Efficiency	2.4~2.5GHz≥42%(Avg) , 5.15~5.85GHz≥38%(Avg)

Wi-Fi1	
Antenna Type	Monopole Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz/5.15~5.85GHz
Return Loss	2.4GHz~2.5GHz: S11≤-10dB 5.15GHz~5.85GHz: S11≤-8dB.
Peak Gain	2.58dBi@2.4~2.5GHz , 2.21dBi@5.15~5.85GHz
Efficiency	2.4~2.5GHz≥43%(Avg) , 5.15~5.85GHz≥35%(Avg)

BT	
Antenna Type	Monopole Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz
Return Loss	S11≤-6dB
Peak Gain	0.38dBi
Efficiency	≥24%(Avg)

Wi-Fi0	CH	Gain/dBi	Efficiency/%
2.4G	L	3.23	45
	M	0.53	40
	H	0.79	48
5G	L	1.75	37
	M	1.82	38
	H	1.86	35

Wi-Fi1	CH	Gain/dBi	Efficiency/%
2.4G	L	1.97	42
	M	1.53	42
	H	2.58	48
5G	L	1.97	38
	M	1.23	30
	H	2.21	37

BT	CH	Gain/dBi	Efficiency/%
2.4G	L	-2.65	18
	M	-0.44	25
	H	0.38	30

ANT Directivity Pattern

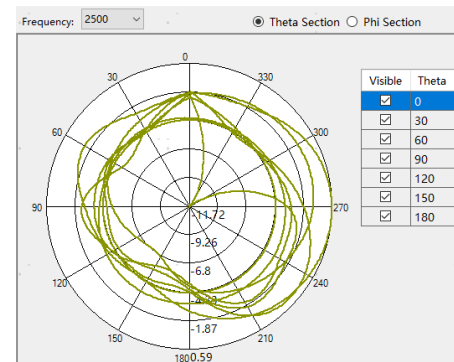
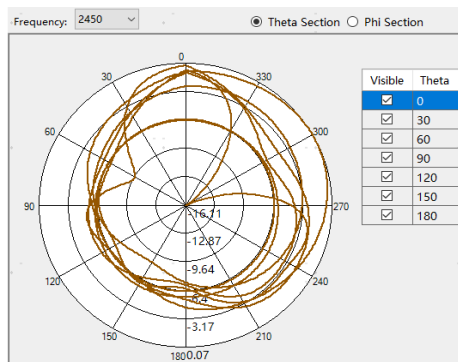
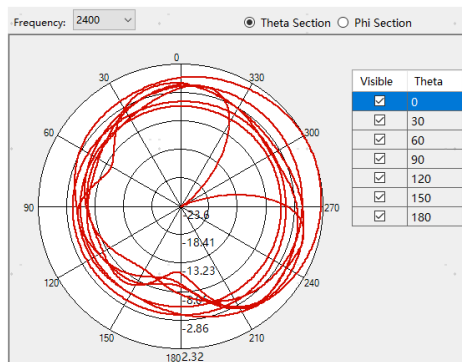
Hisense

Wi-Fi0 2.4G: L Band

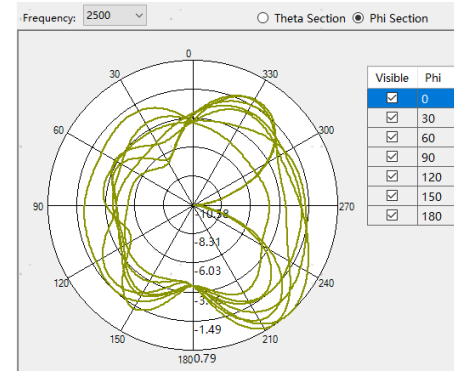
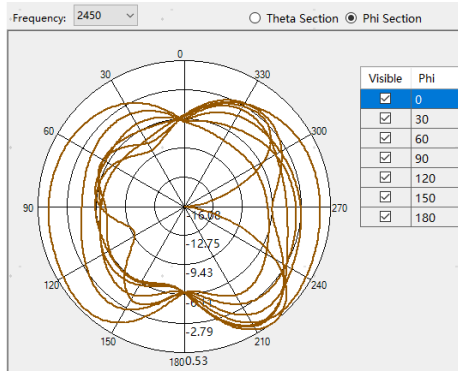
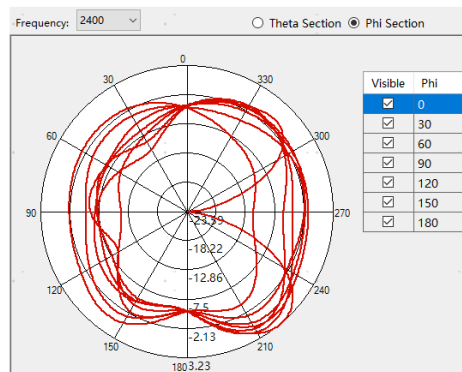
M Band

H Band

Theta
Section



Phi
Section



ANT Directivity Pattern

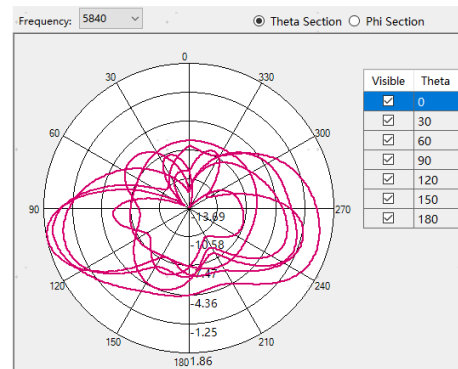
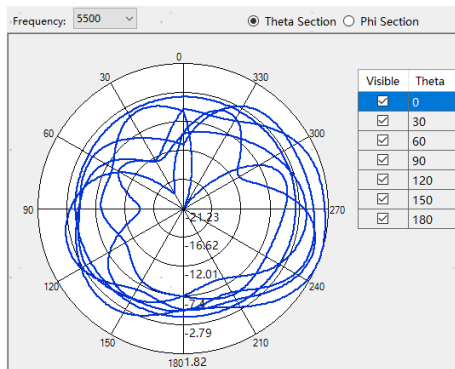
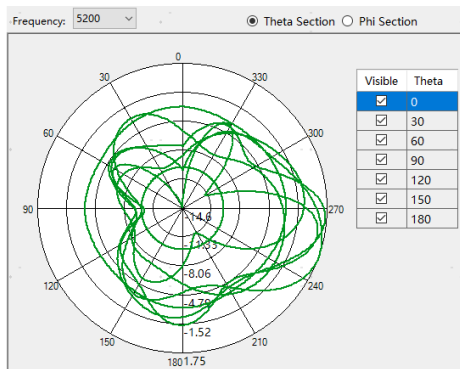
Hisense

Wi-Fi0 5G: L Band

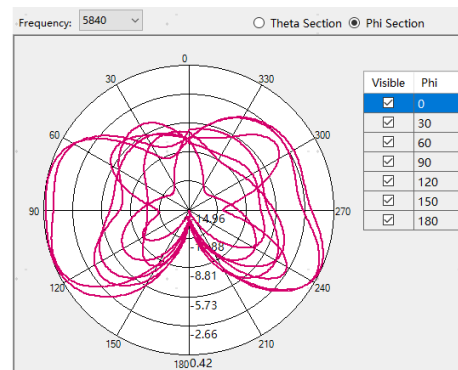
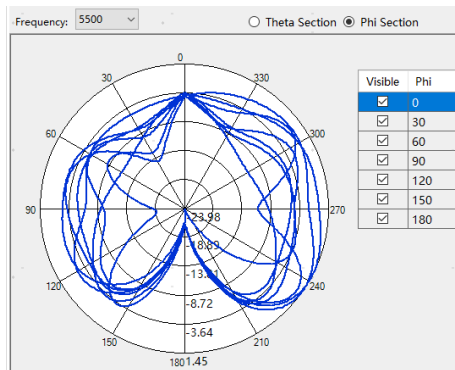
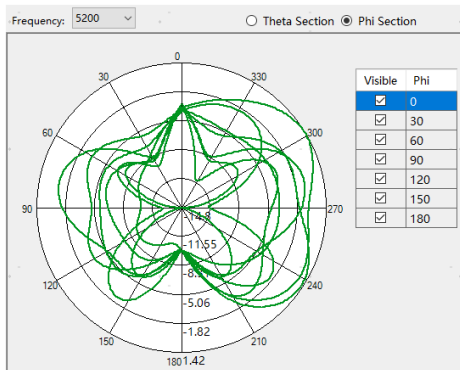
M Band

H Band

Theta
Section



Phi
Section



ANT Directivity Pattern

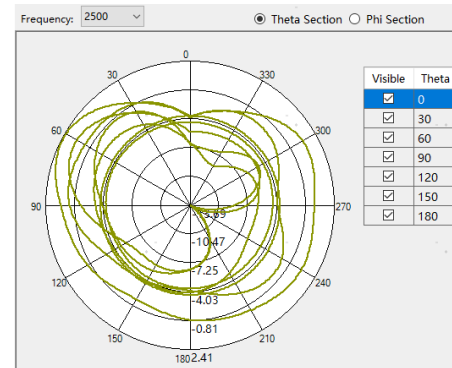
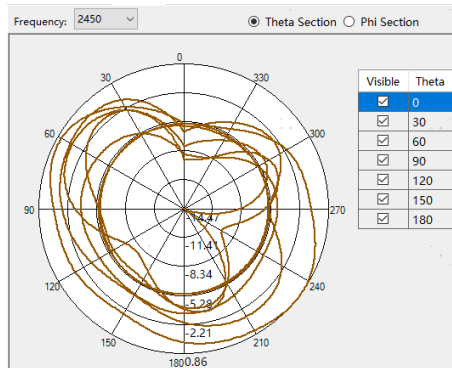
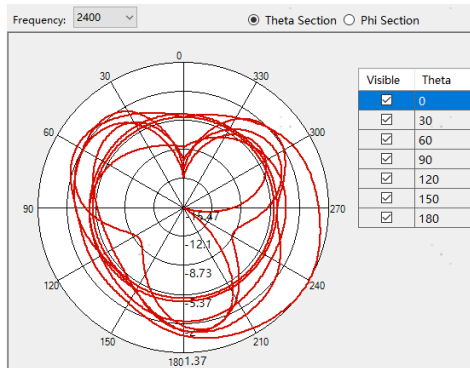
Hisense

Wi-Fi1 2.4G: L Band

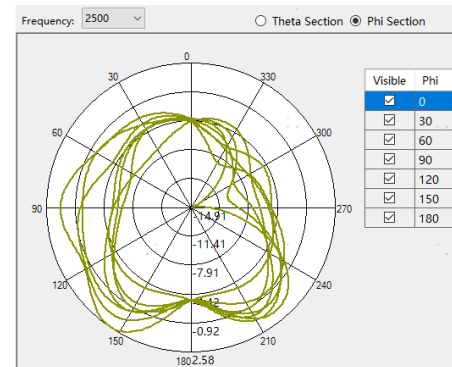
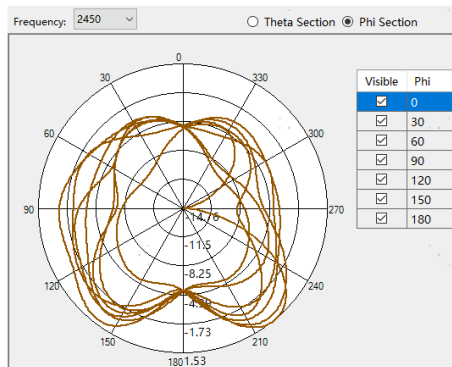
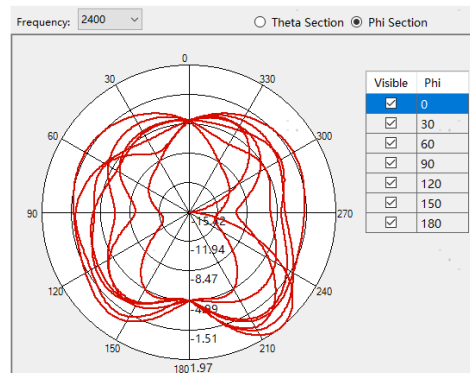
M Band

H Band

Theta
Section



Phi
Section



ANT Directivity Pattern

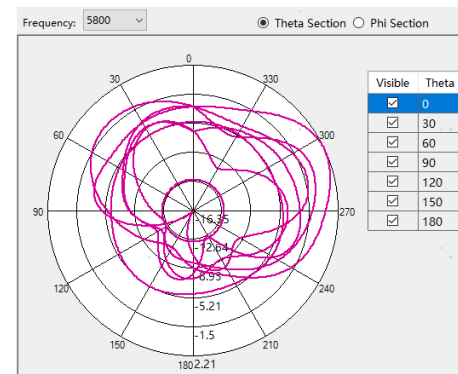
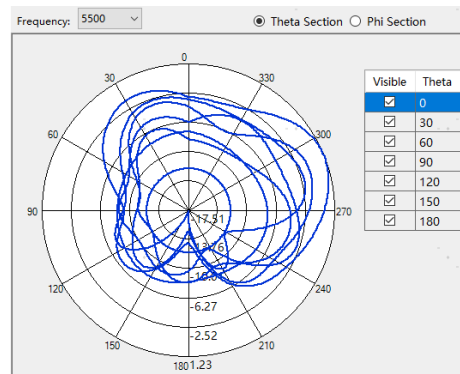
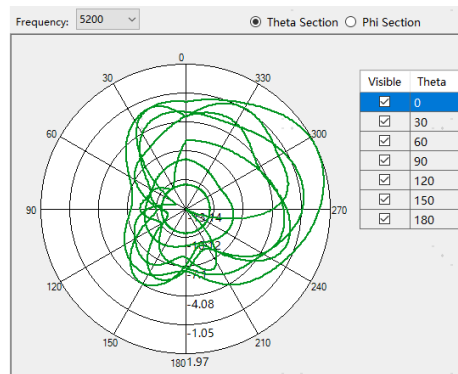
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Wi-Fi1 5G: L Band

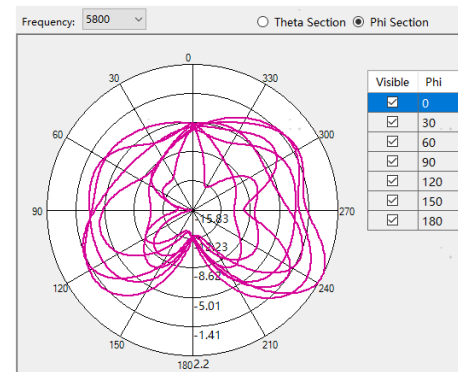
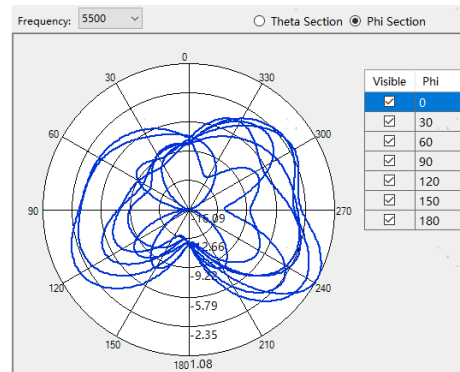
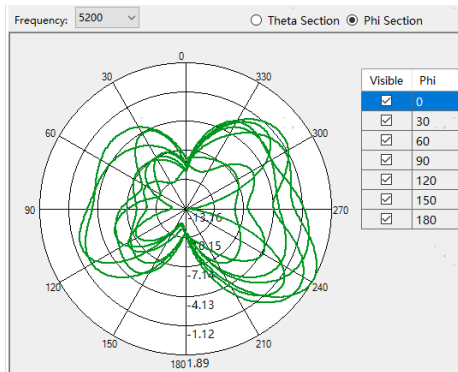
M Band

H Band

Theta
Section



Phi
Section



ANT Directivity Pattern

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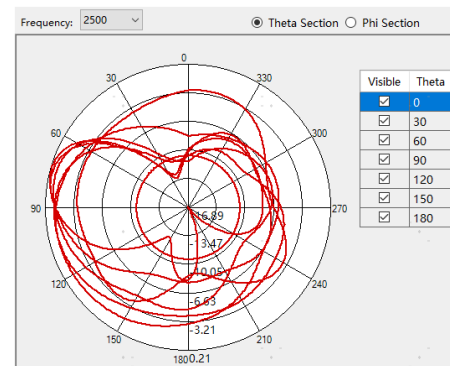
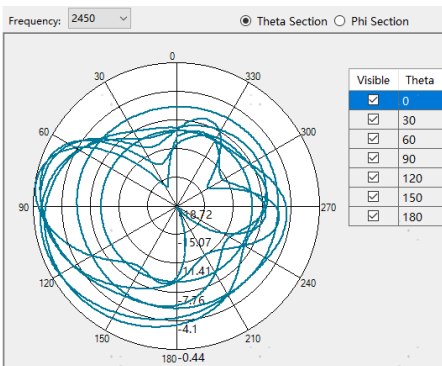
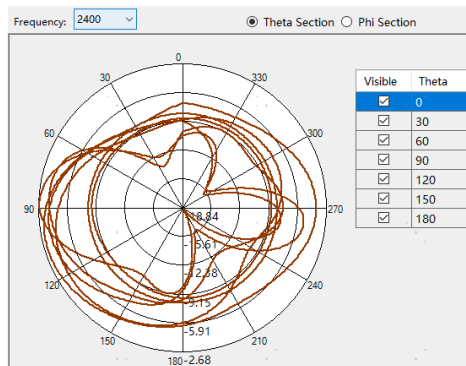
BT 2.4G:

L Band

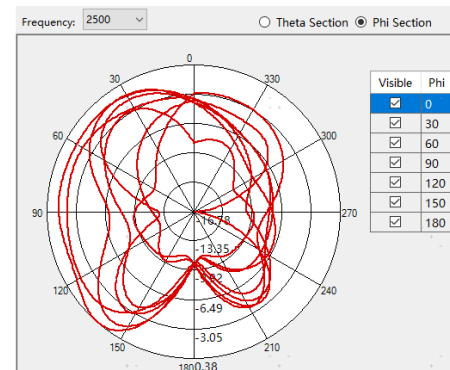
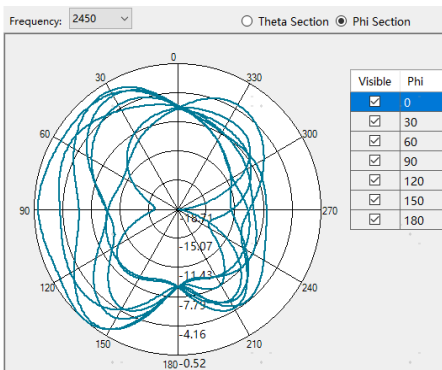
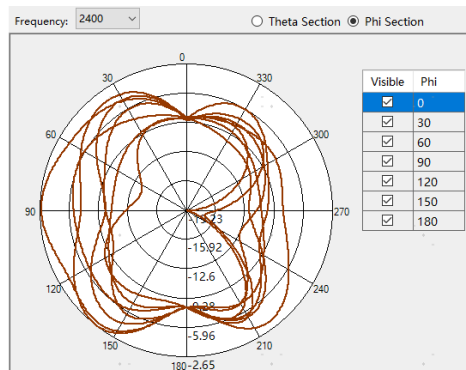
M Band

H Band

Theta
Section



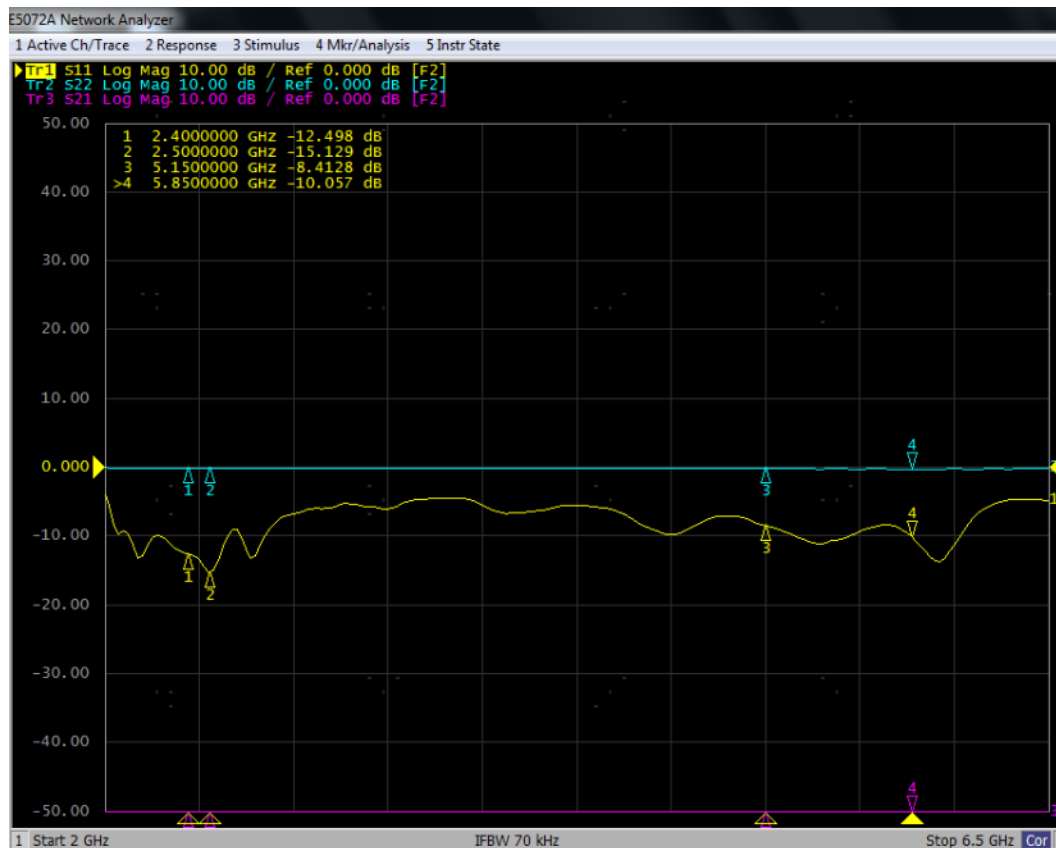
Phi
Section



Wi-Fi0 Antenna

2.4-2.5GHz: $S_{11} < -10\text{dB}$

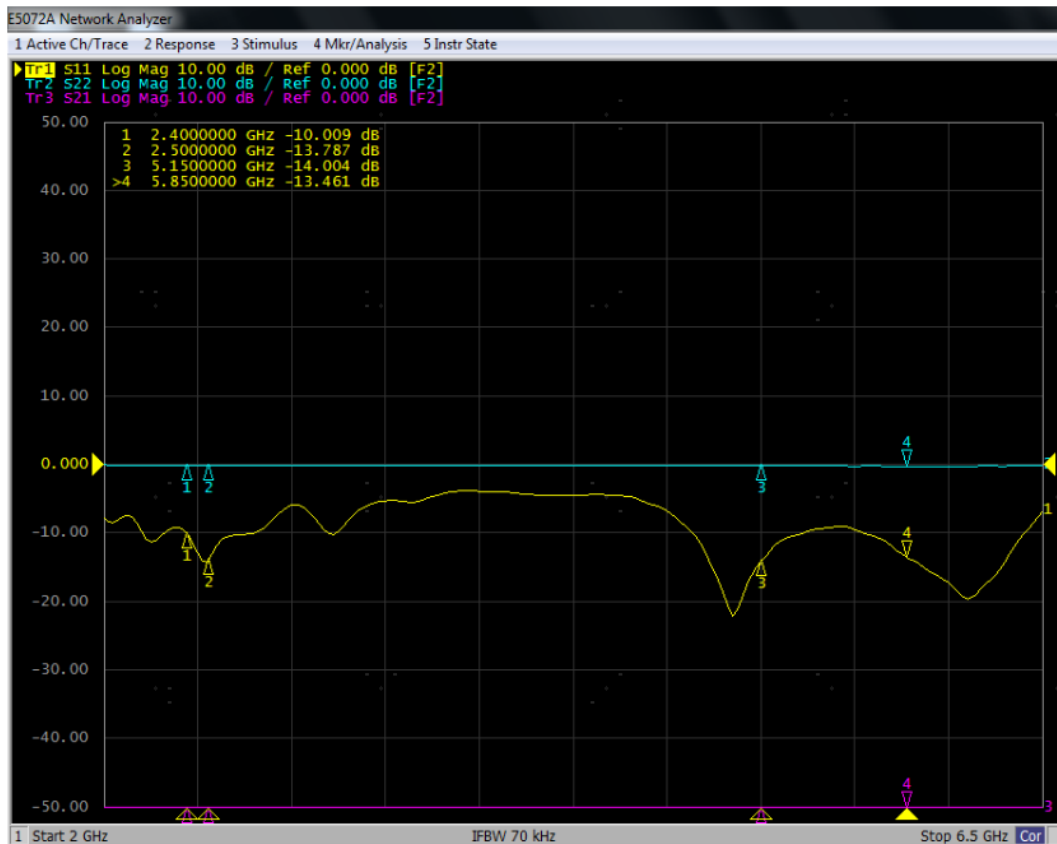
5.15-5.85GHz: $S_{11} < -8\text{dB}$



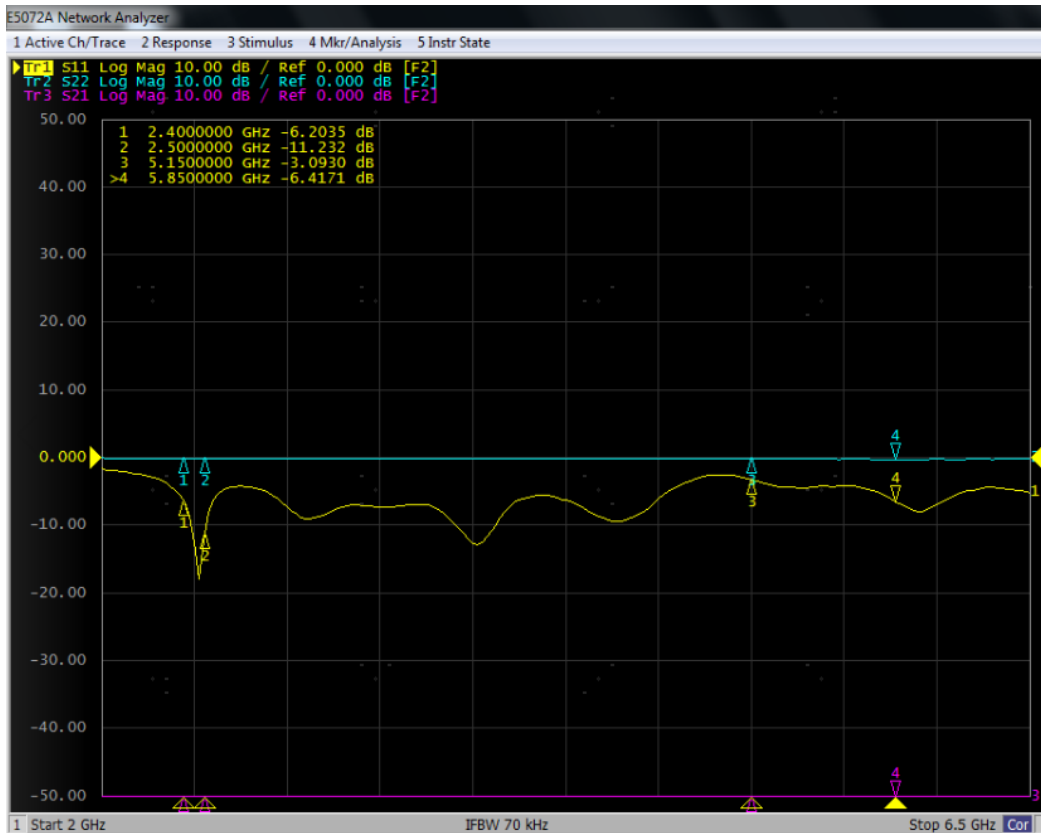
Wi-Fi1 Antenna

2.4-2.5GHz: $S_{11} < -10\text{dB}$

5.15-5.85GHz: $S_{11} < -10\text{dB}$



BT Antenna
2.4-2.5GHz: $S_{11} < -6\text{dB}$



Isolation between
Wi-Fi0 and Wi-Fi1

2.4-2.5G:

Low band: -10dB

Middle band:-11dB

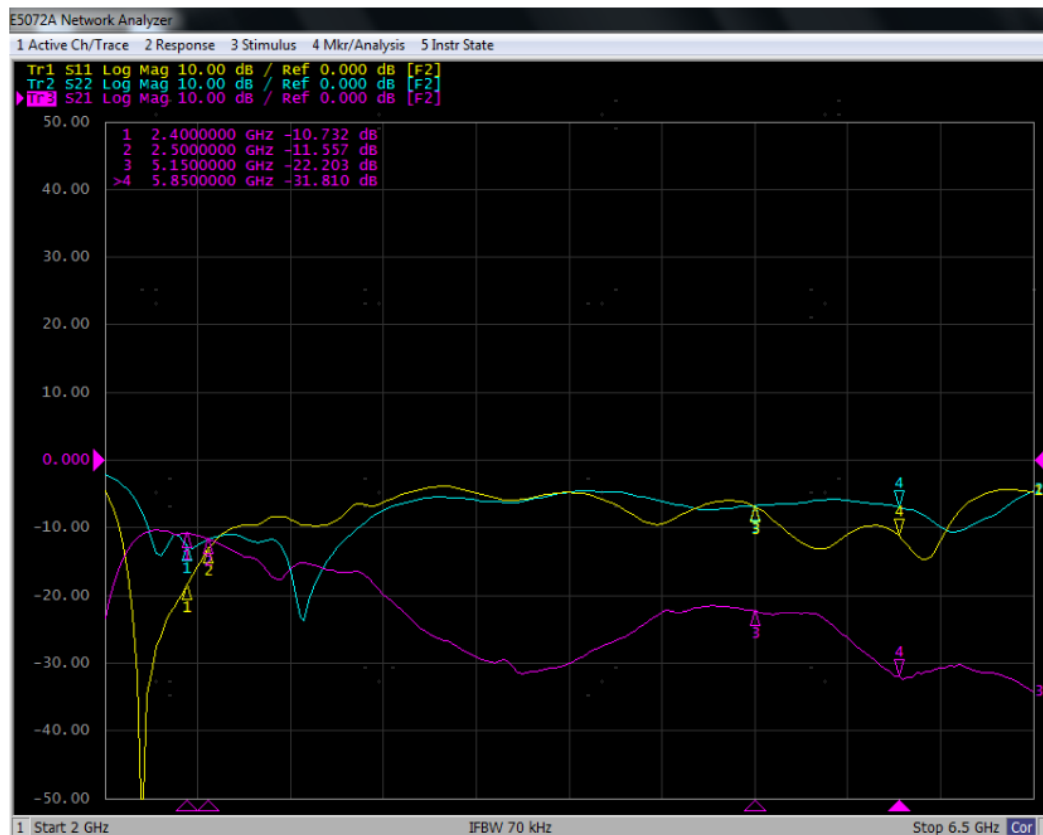
High band:-11dB

5.15-5.85G:

Low band:-22dB

Middle band:-25dB

High band:-32dB



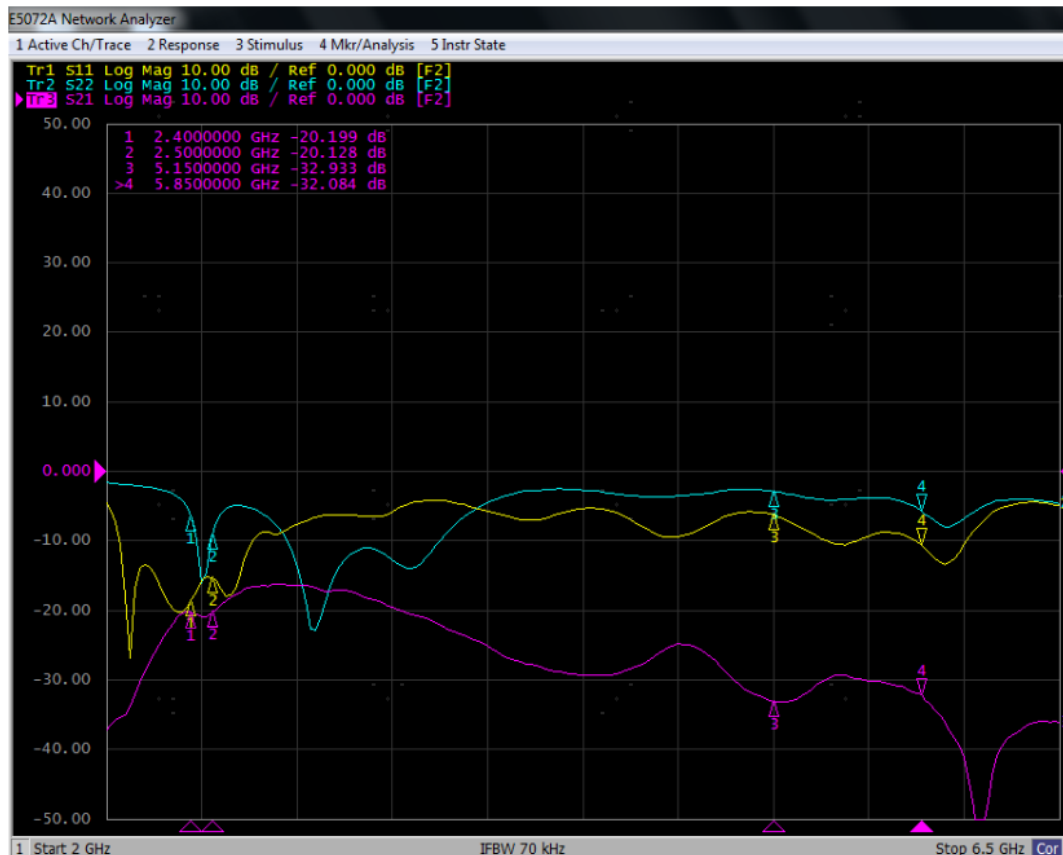
Isolation between
Wi-Fi0 and BT

2.4-2.5G:

Low band: -20dB

Middle band:-20dB

High band:-20dB



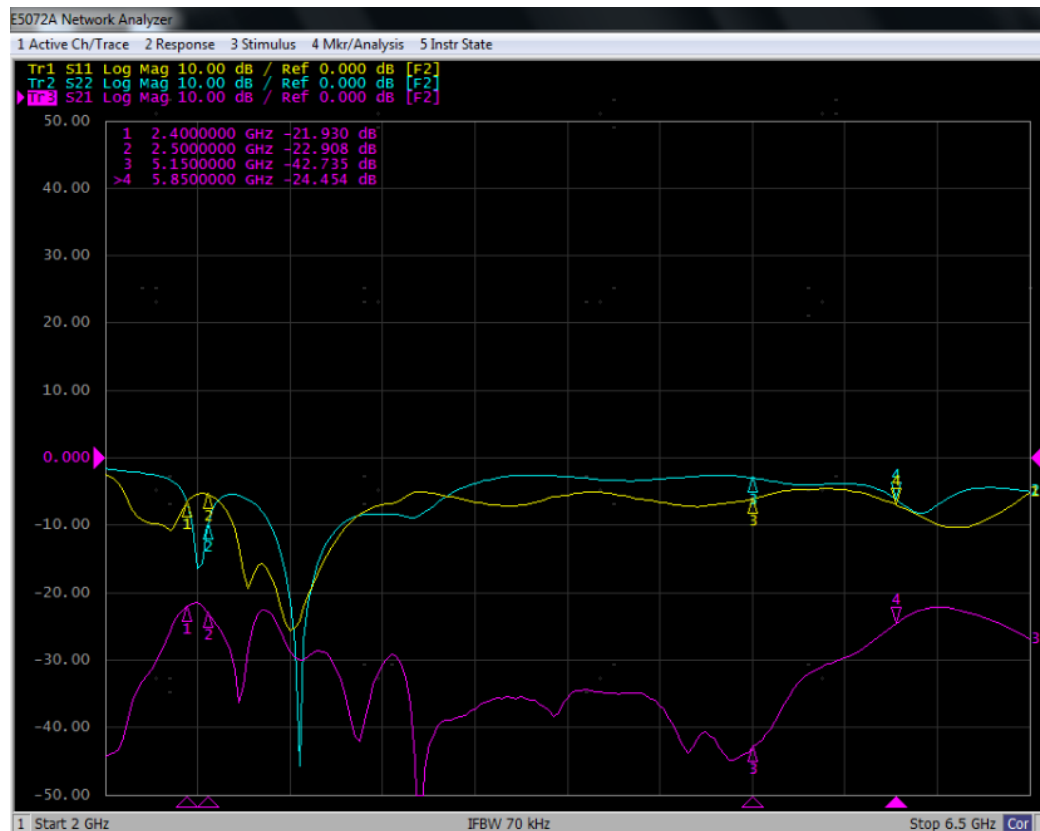
Isolation between
Wi-Fi1 and BT

2.4-2.5G:

Low band: -22dB

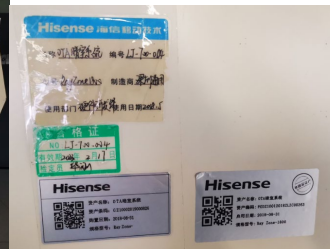
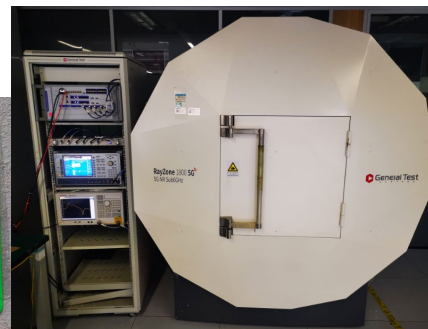
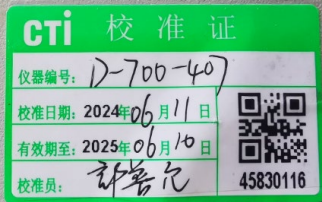
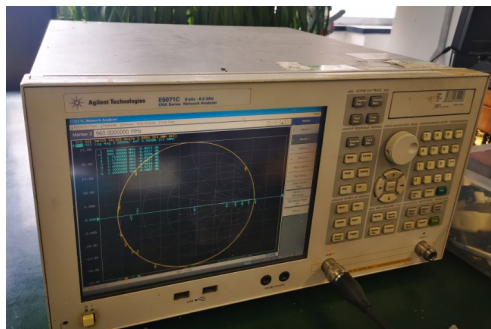
Middle band: -22dB

High band: -23dB



ANT Test Device

Hisense



Device Name	Vector network analyzer	Microwave anechoic chamber
Device Model	5072A	Rayzone 1800
Calibration Time	2024.06.11	2024.08.05
Test Time	2025.05.13	2025.05.13
Tester	Hu Wang	Hu Wang

- **Manufacturer:** Qingdao Intelligent & Precise Electronics Co., Ltd.
- **Address:** Building 1, No. 218 Qianwangang Road,
Qingdao Economic and Technological Development Zone,
Shandong Province,
CHINA
- **Contact:** Jin-hui Zhai
- **Email:** zhaijinhui@hisense.com

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