

Hisense



UEFA
EURO2024
GERMANY

2024欧洲杯™全球官方合作伙伴

MWH414S ant report

Hisense2024.2.19



WiFi0	
Antenna Type	Inverted F Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz/5.15~5.85GHz
VSWR	2.4GHz~2.5GHz: $S_{11} \leq 2\text{dB}$ 5.15GHz~5.85GHz: $S_{11} \leq 2.5\text{dB}$.
Peak Gain	0.3dBi@2.4~2.5GHz, 2.27dBi@5.15~5.85GHz
Efficiency	2.4~2.5GHz $\geq 50\%$ (Avg), 5.15~5.85GHz $\geq 50\%$ (Avg)
WiFi1	
Antenna Type	Inverted F Antenna
Input impedance	50Ω
Frequency Band	2.4~2.5GHz/5.15~5.85GHz
VSWR	2.4GHz~2.5GHz: $S_{11} \leq 2\text{dB}$ 5.15GHz~5.85GHz: $S_{11} \leq 2.5\text{dB}$.
Peak Gain	3.7dBi@2.4~2.5GHz, 2.91dBi@5.15~5.85GHz
Efficiency	2.4~2.5GHz $\geq 45\%$ (Avg), 5.15~5.85GHz $\geq 50\%$ (Avg)



WiFi1

WiFi0



WiFi0	CH	Gain/dBi	Efficiency/%
2.4G	L	0.3	51.21
	M	0.14	51.3
	H	0.29	53.1
5G	L	2.27	50.45
	M	2.21	51.47
	H	0.9	51.59

Wifi1	CH	Gain/dBi	Efficiency/%
2.4G	L	-0.47	54.63
	M	1.49	52.79
	H	3.7	59.03
5G	L	2.24	51.32
	M	2.91	53.32
	H	2.1	54.65

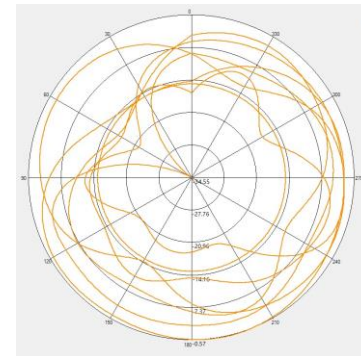
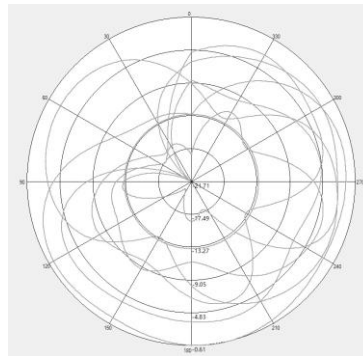
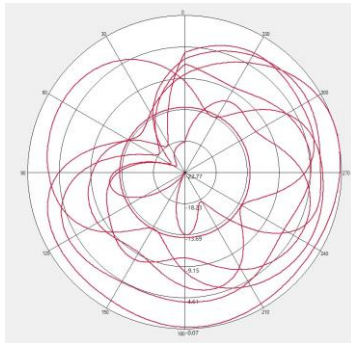
ANT Directivity Pattern

WiFi0 2.4G: L Band

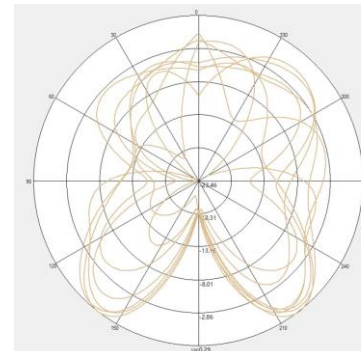
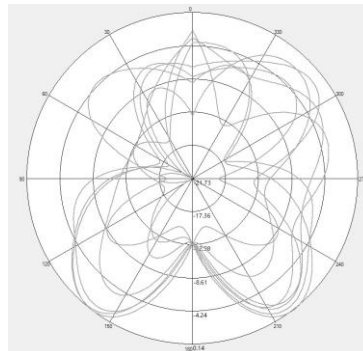
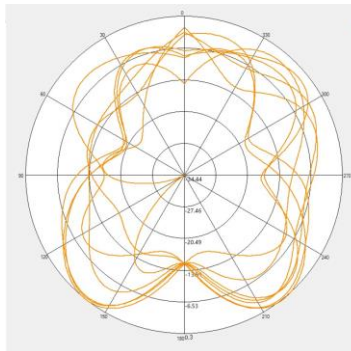
M Band

H Band

Theta
Section



Phi
Section



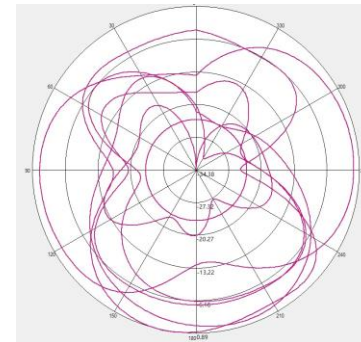
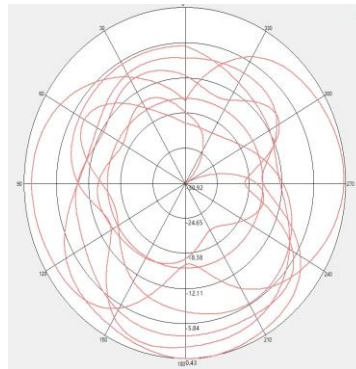
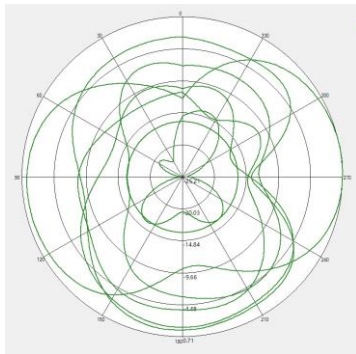
ANT Directivity Pattern

WiFi0 5G: L Band

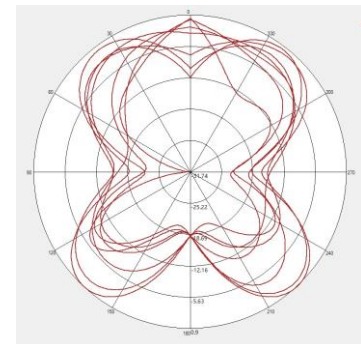
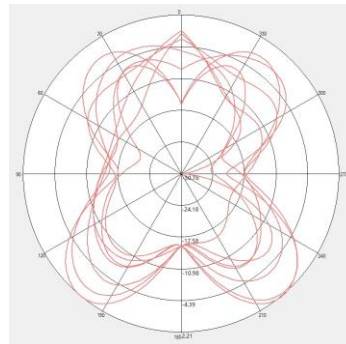
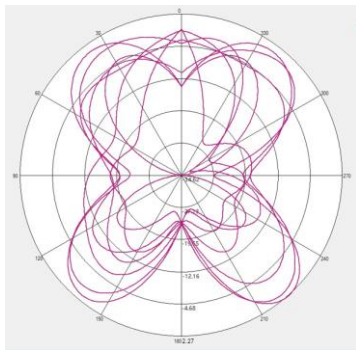
M Band

H Band

Theta
Section



Phi
Section



ANT Directivity Pattern

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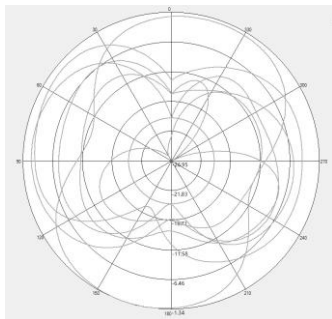
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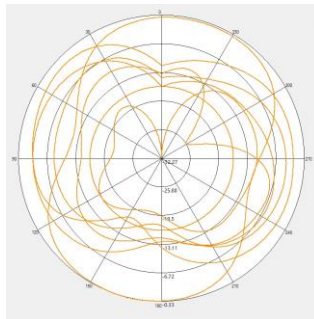
FIFA WORLD CUP
Qatar 2022

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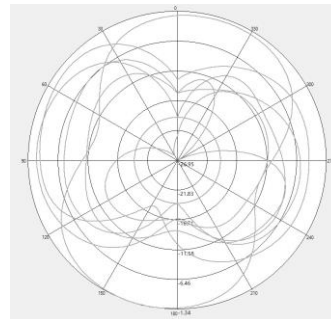
WiFi1 2.4G: L Band



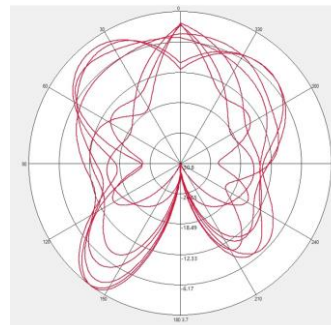
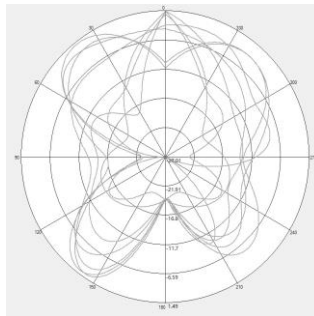
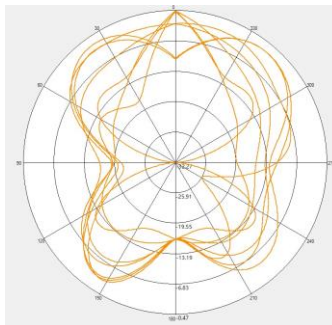
M Band



H Band



Theta
Section

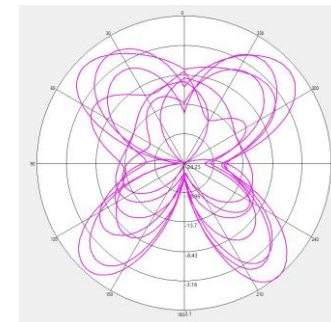


Phi
Section

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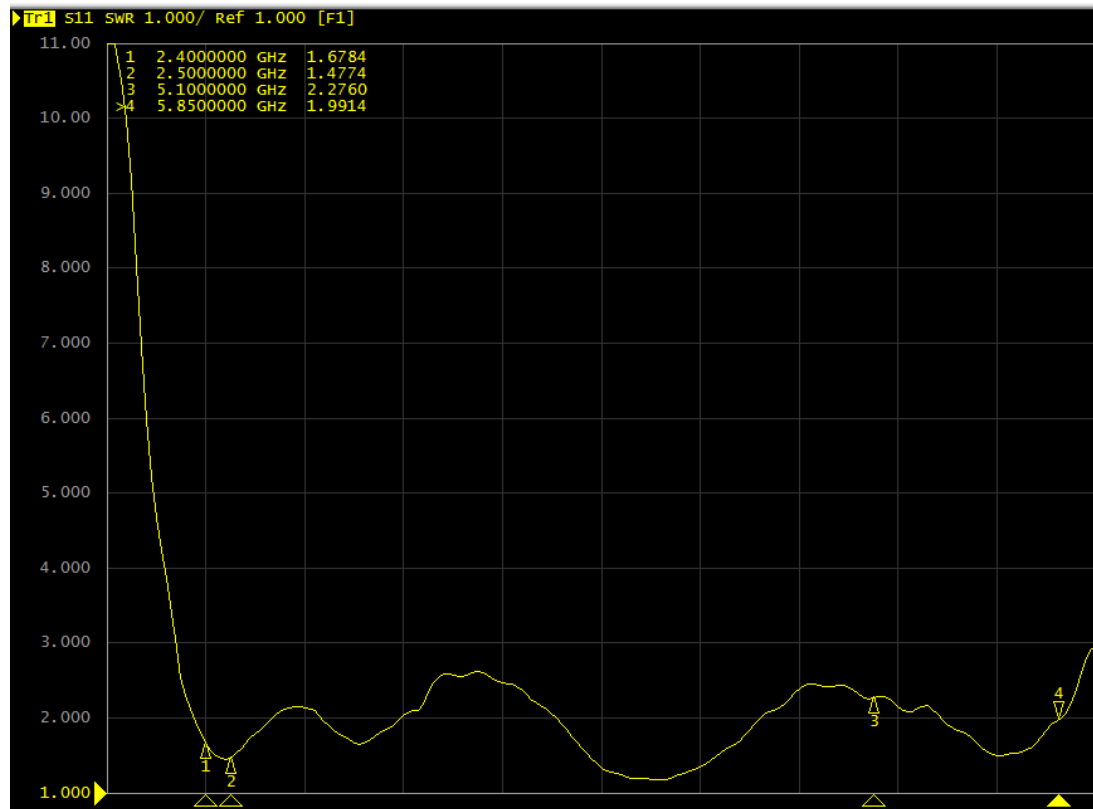
H Band

Phi Section



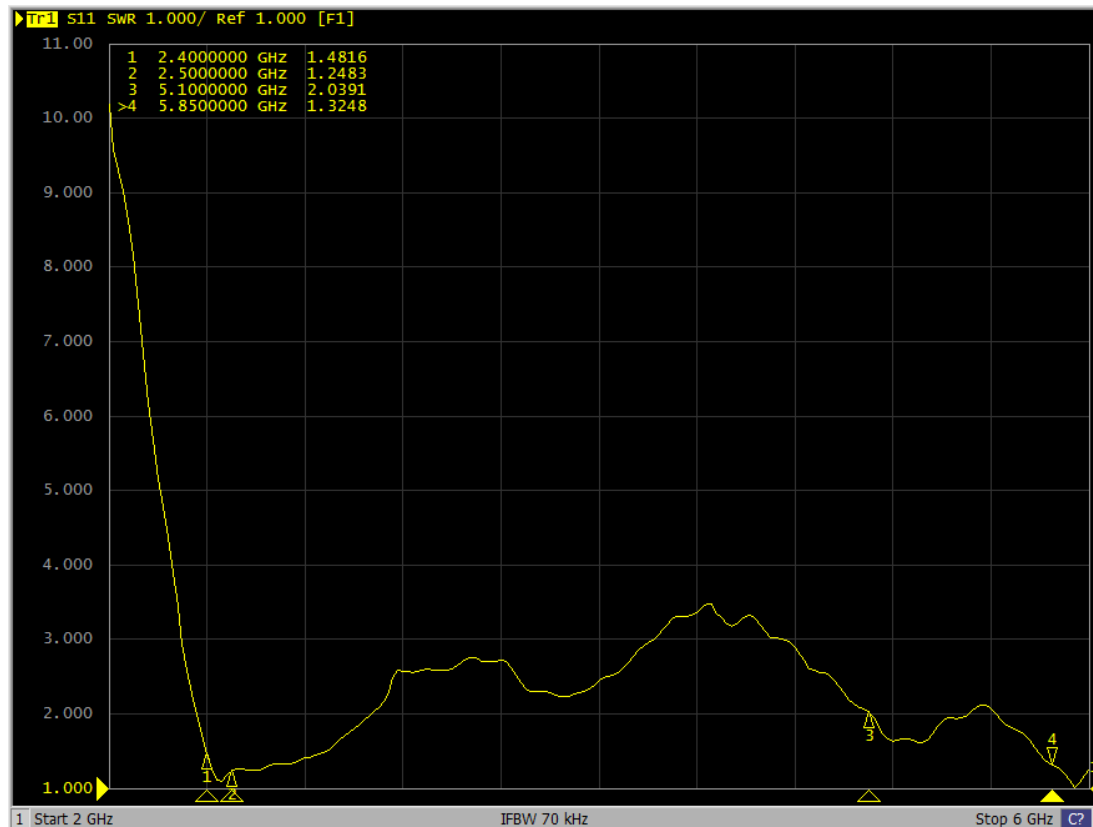
ANT Return Loss

WiFi0 Antenna
2.4-2.5GHz < 2dB
5.15-5.85GHz < 2.5dB

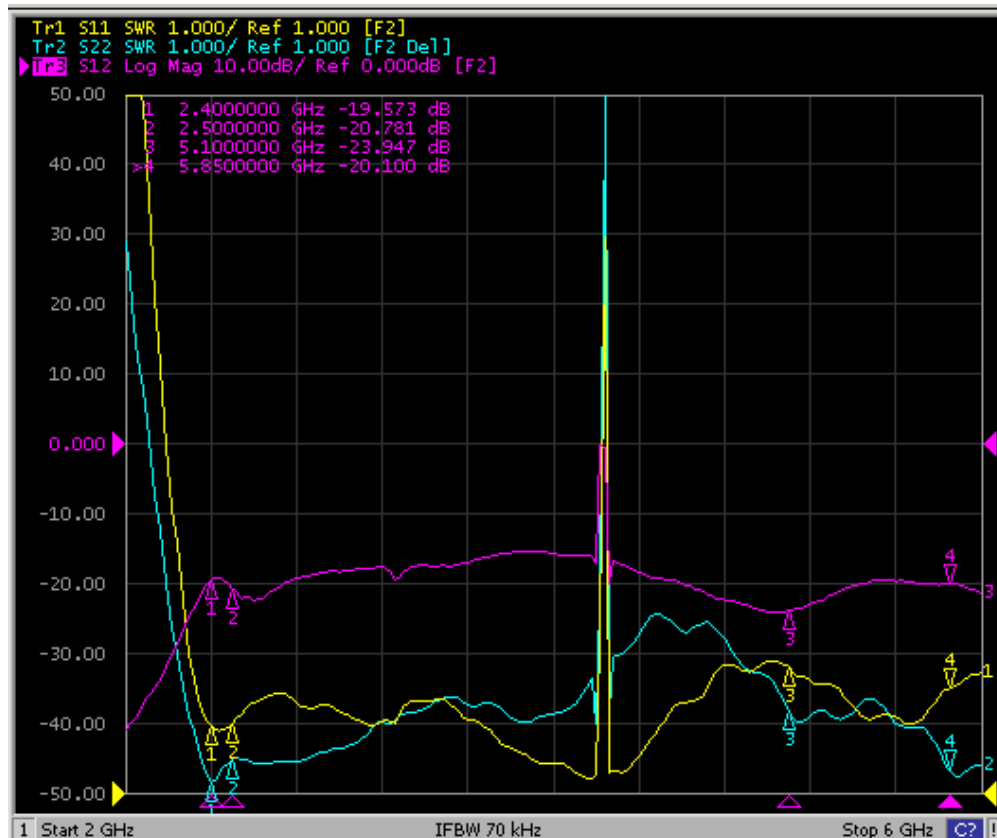


ANT Return Loss

WiFi1 Antenna
2.4-2.5GHz < 2dB
5.15-5.85GHz < 2.5dB



Isolation between WiFi0 and WiFi1
2.4G: L:-19dB M:-20dB H:-20dB
5G: L:-23dB M:-20dB H:-20dB



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