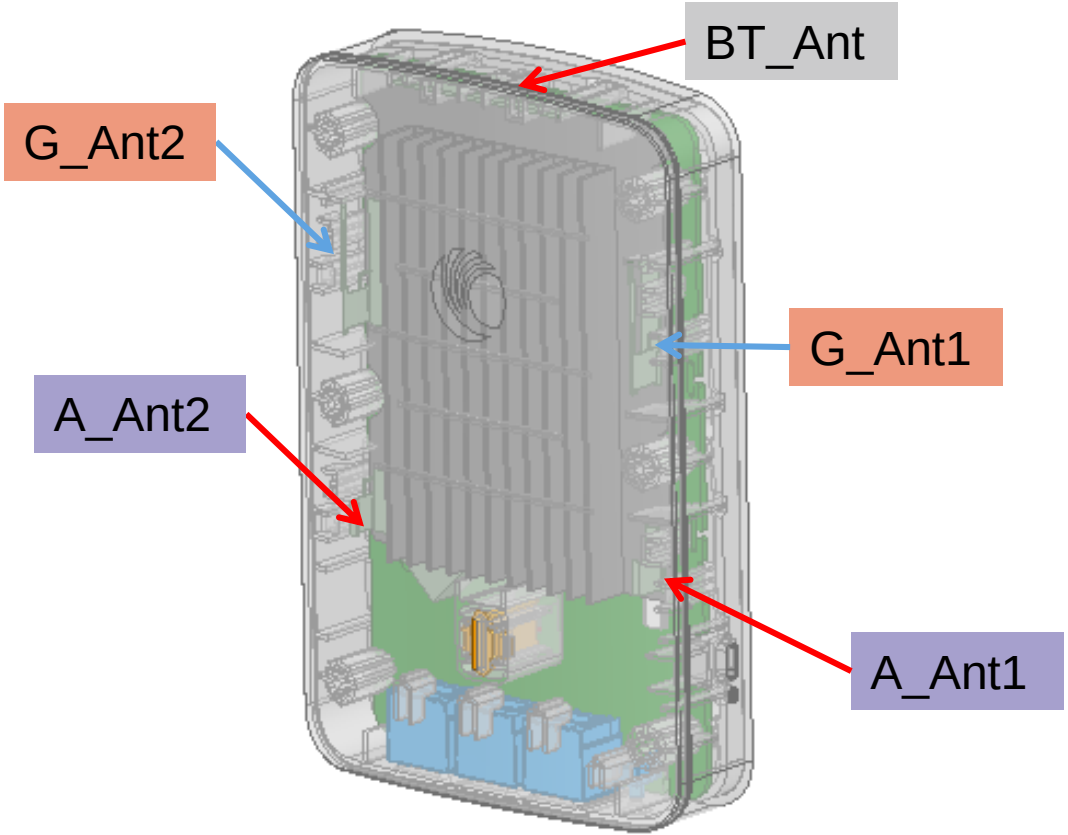
Cambium XV2-22H Antenna Test Report Vt01

Antenna Team
August 8, 2022

Gemtek
Wireless Broadband Anywhere

Antenna Set Definition



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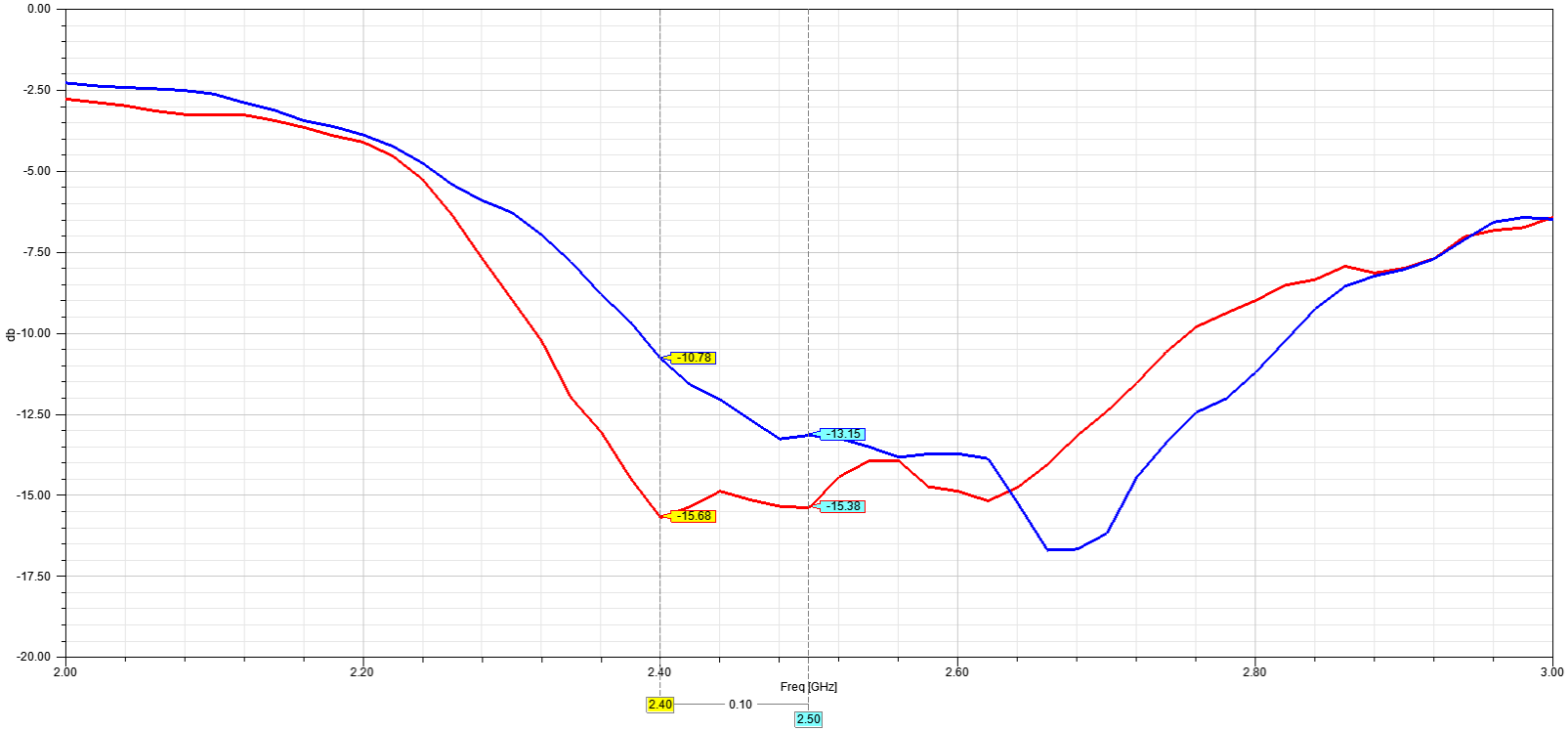
G Band Antenna Return Loss



G_Ant1

G_Ant2

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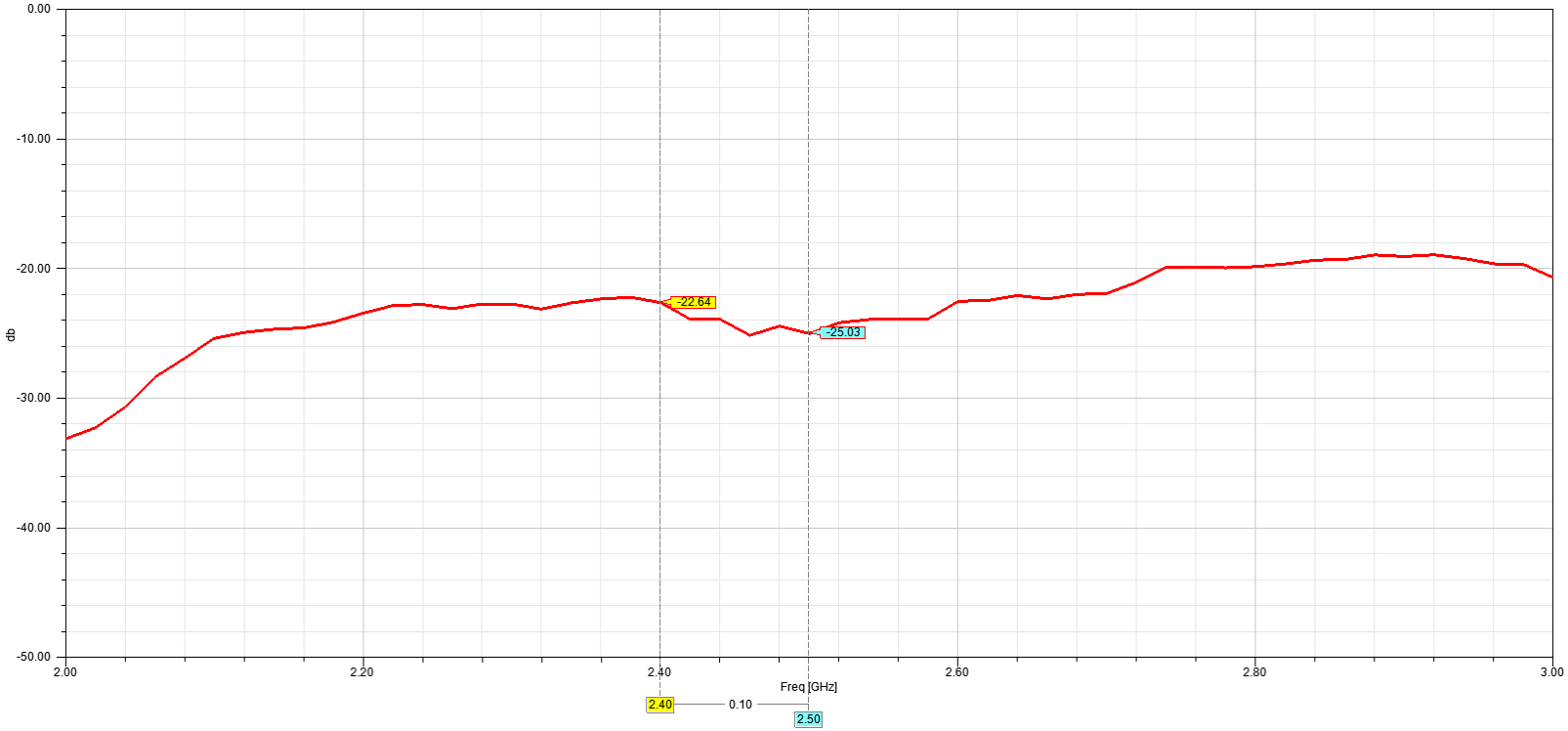
G Band Antenna Isolation



G_Ant1 & G_Ant2

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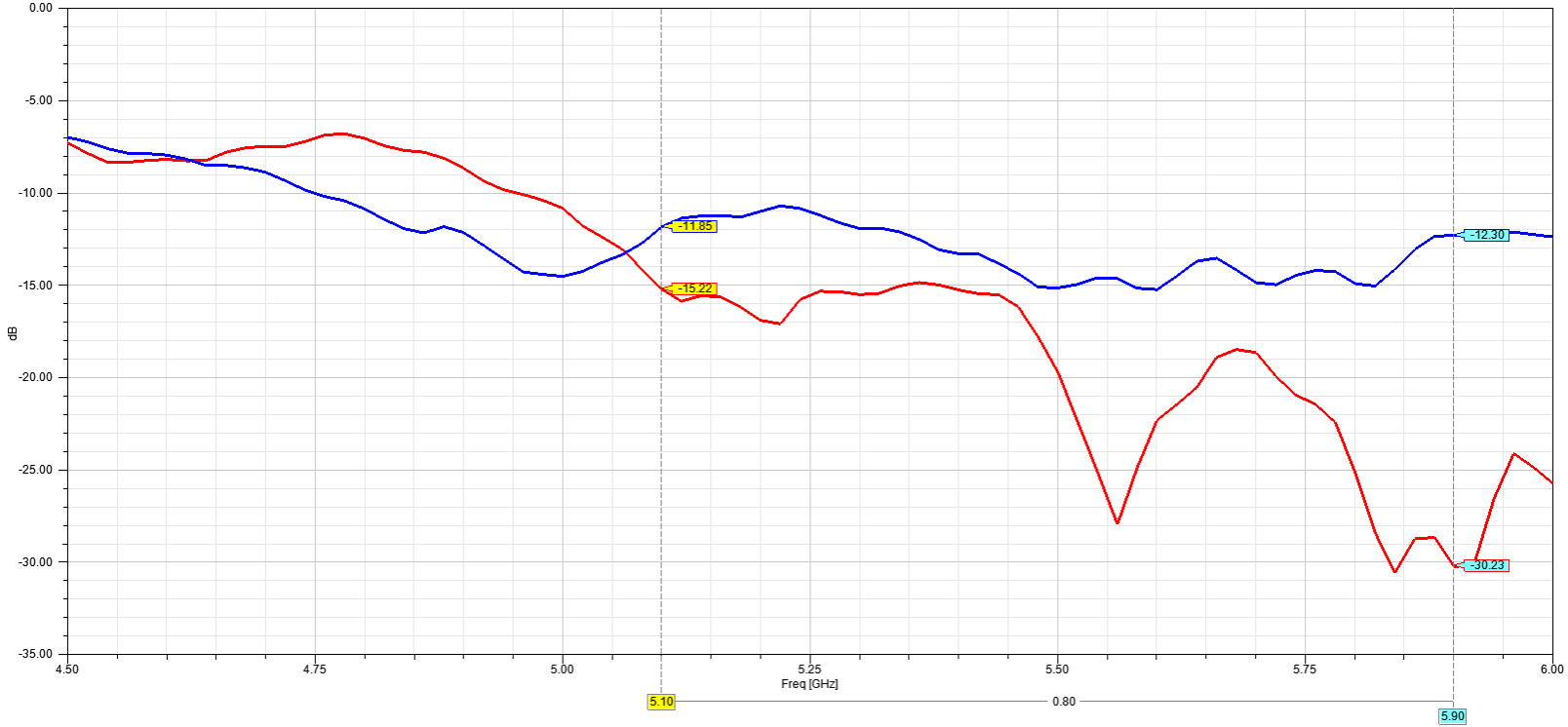
A Band Antenna Return Loss



A_Ant1

A_Ant2

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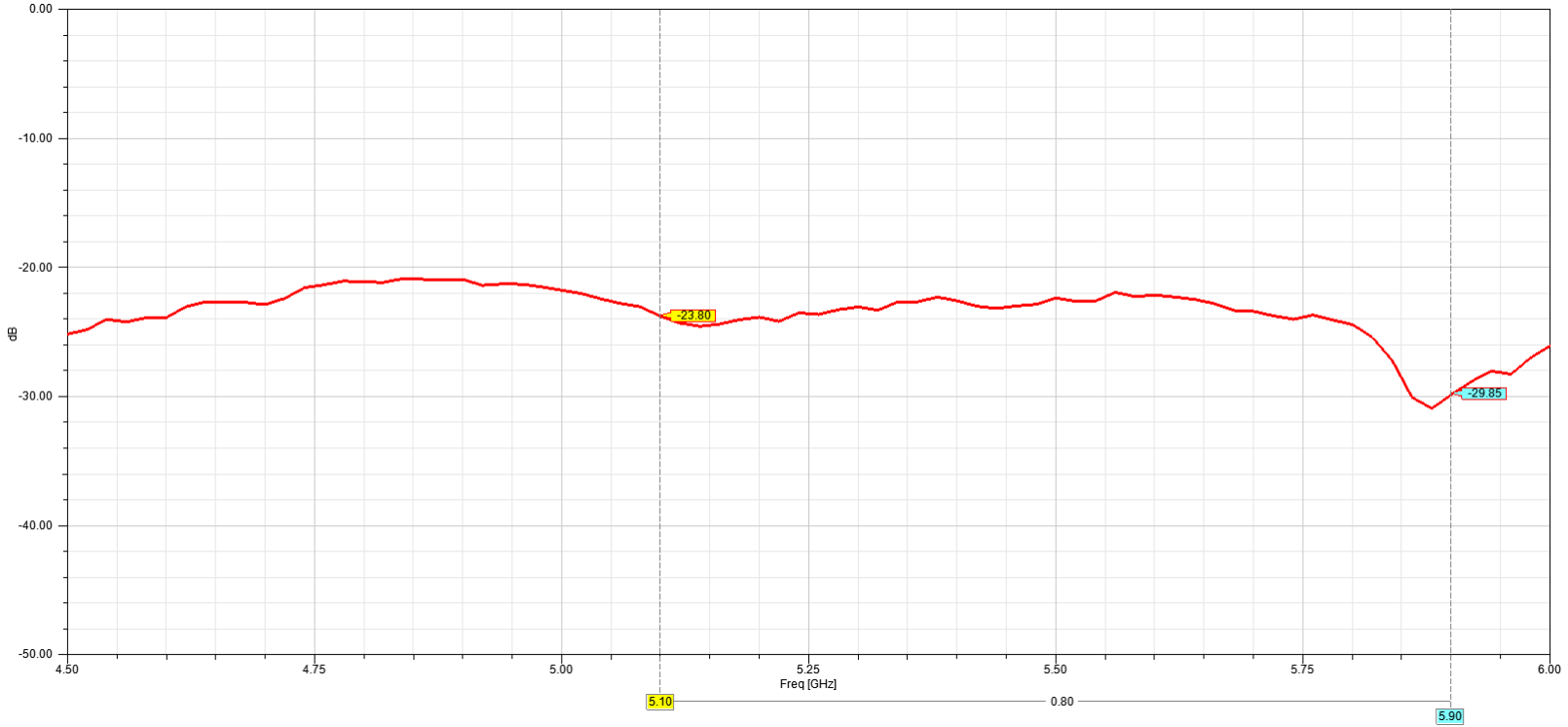
A Band Antenna Isolation



A_Ant1 & A_Ant2

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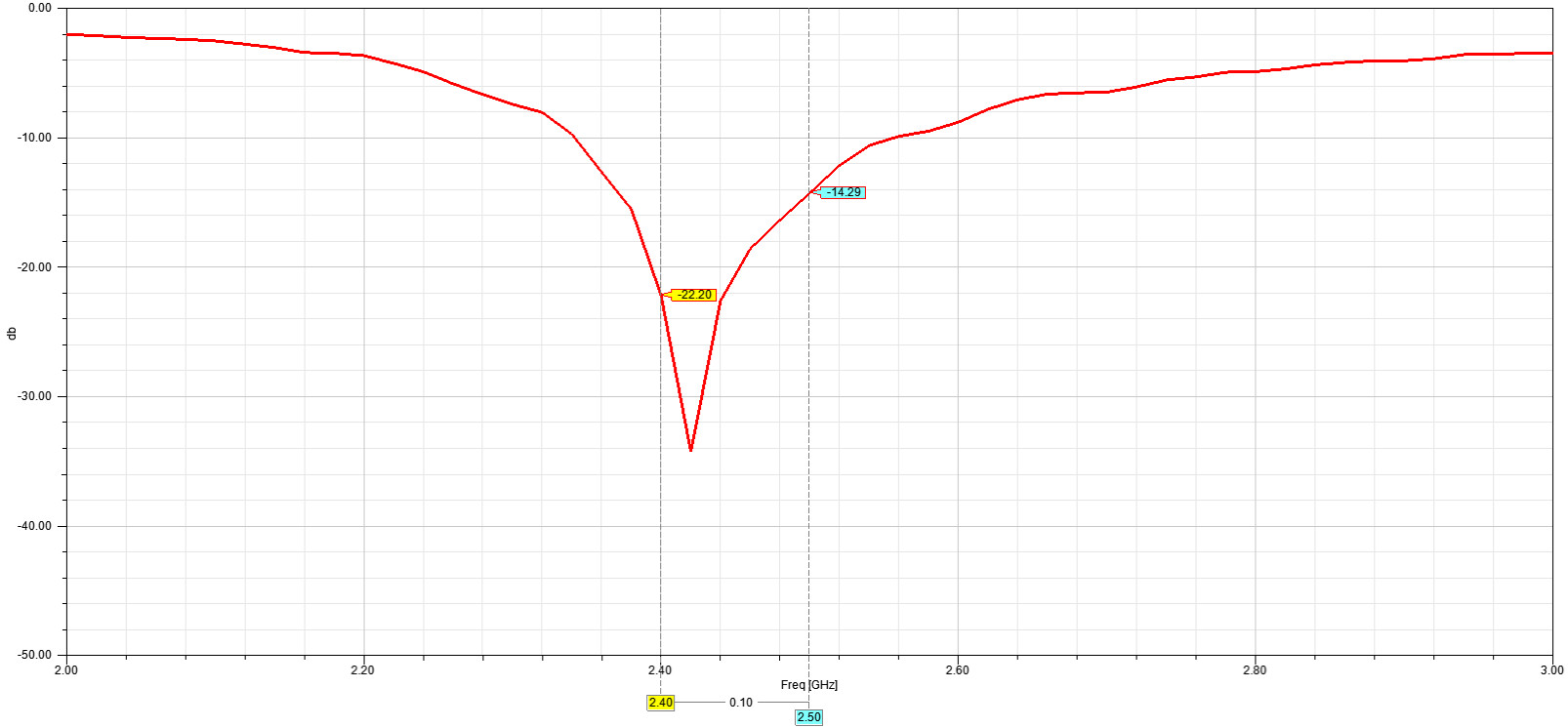
BT Antenna Return Loss



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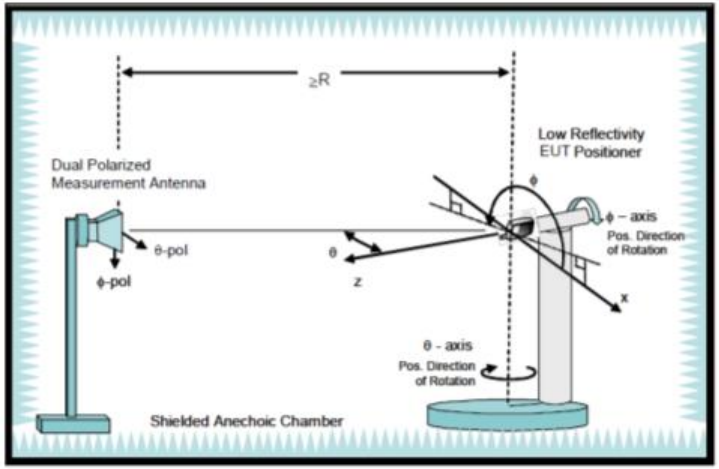
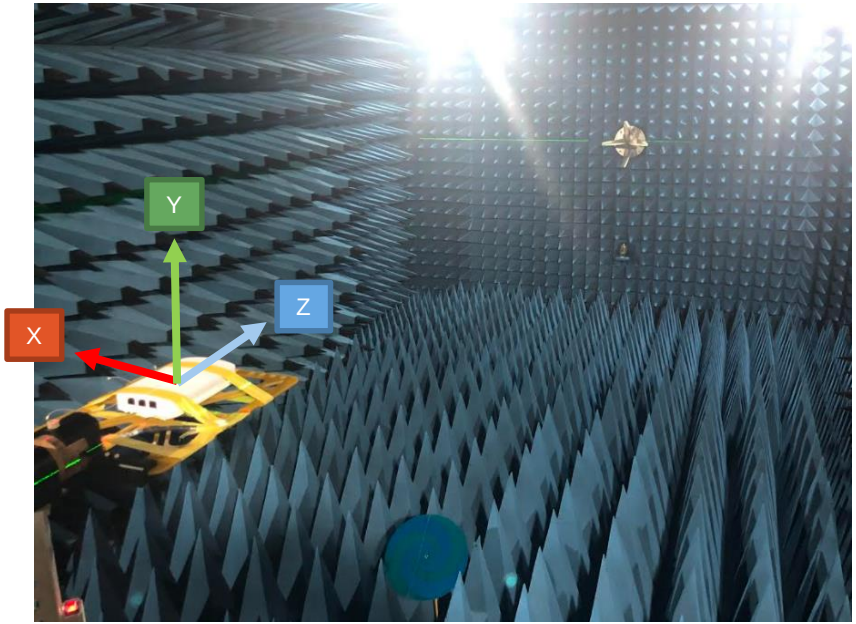
Antenna Coordinate System Definition





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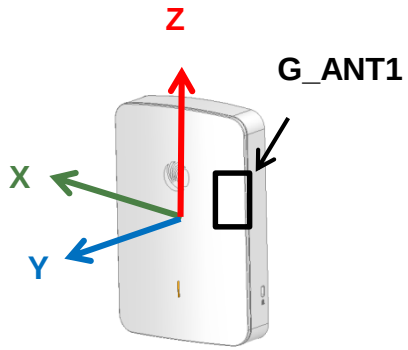
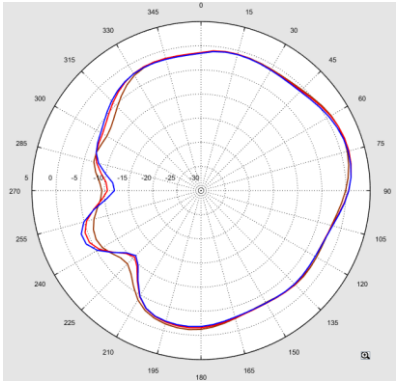
G_ANT1 GainTotal (dBi) Pattern

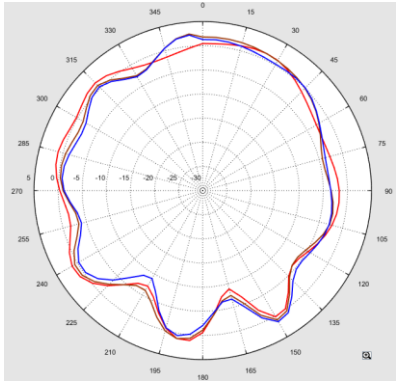


X



Y

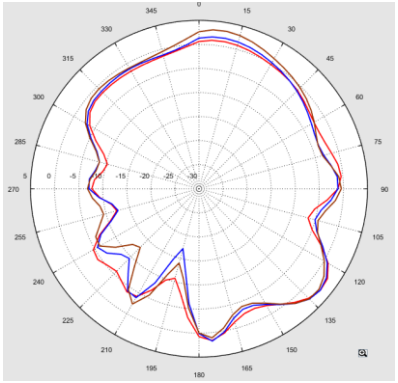
Z



X

2400MHz
2450MHz
2500MHz

Z



Y

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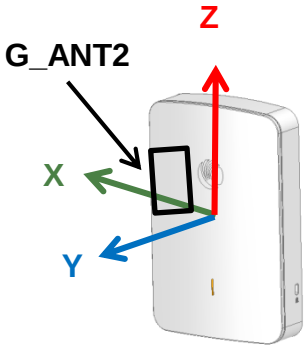
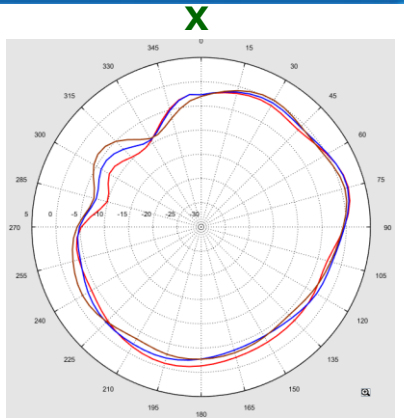
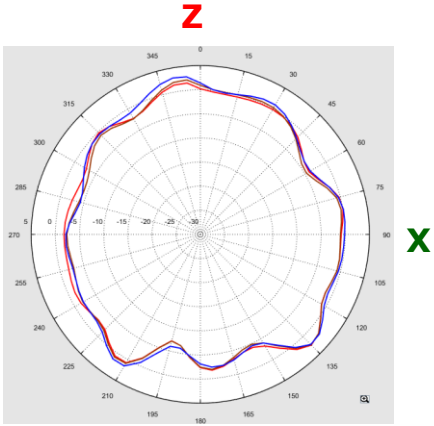
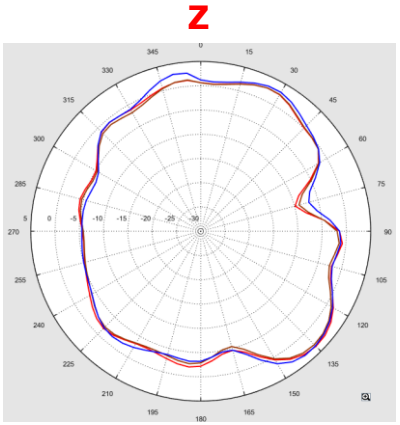
G_ANT2 GainTotal (dBi) Pattern







2400MHz
2450MHz
2500MHz



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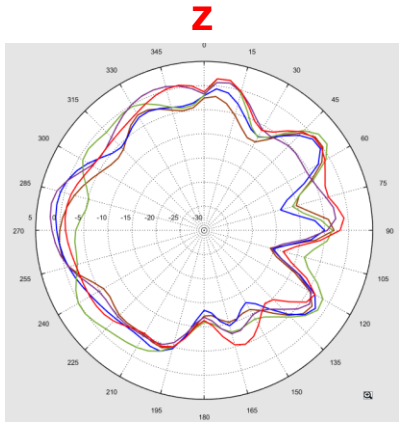
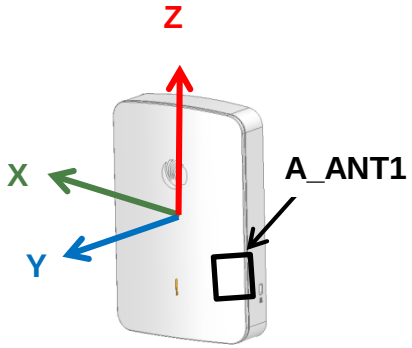
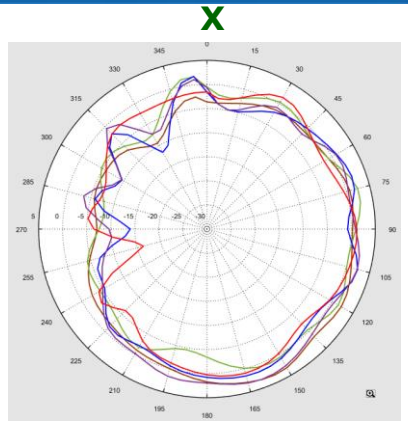
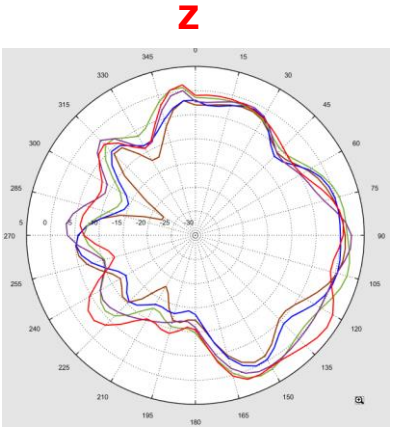
A_ANT1 GainTotal (dBi) Pattern





5100MHz
5300MHz
5500MHz
5700MHz
5900MHz





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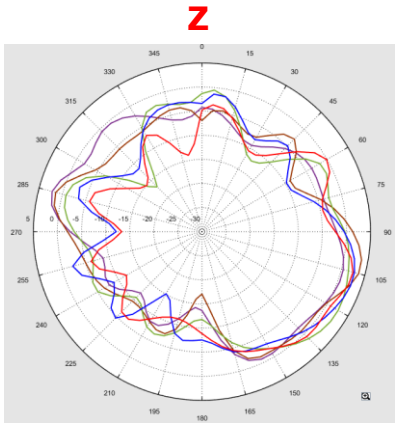
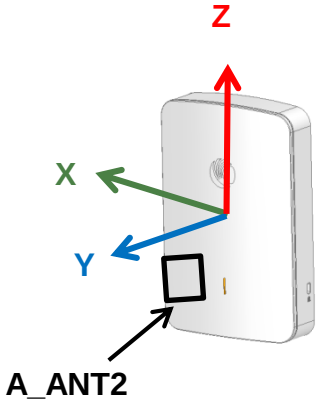
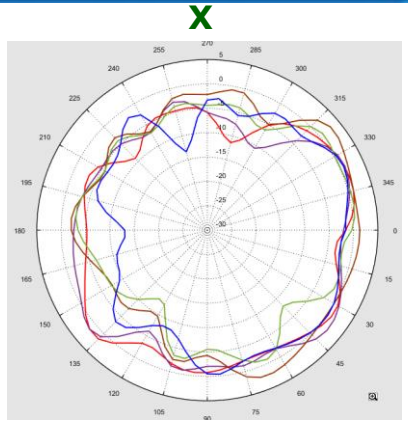
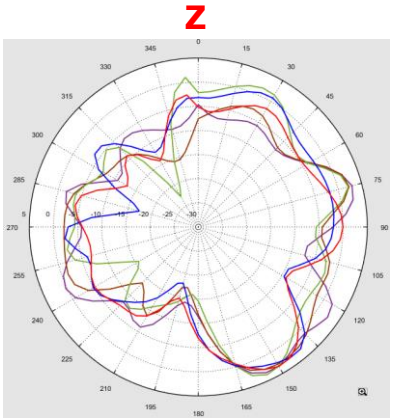
A_ANT2 GainTotal (dBi) Pattern





5100MHz
5300MHz
5500MHz
5700MHz
5900MHz





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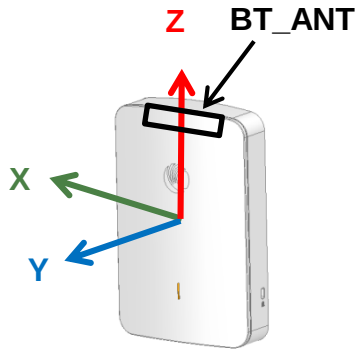
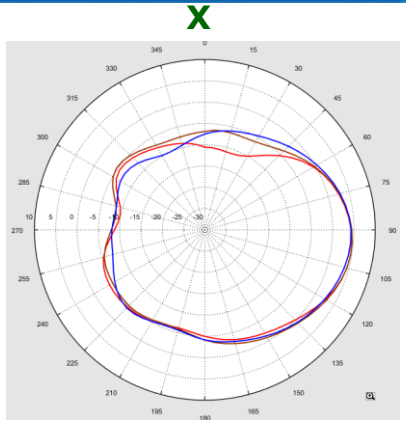
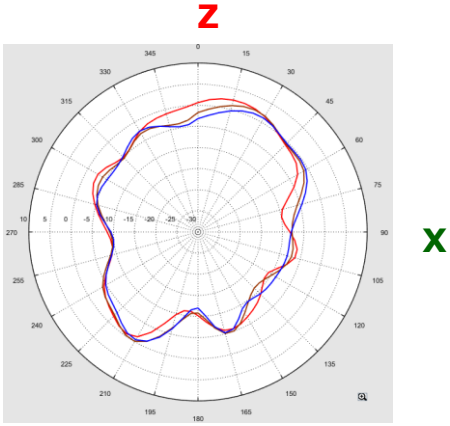
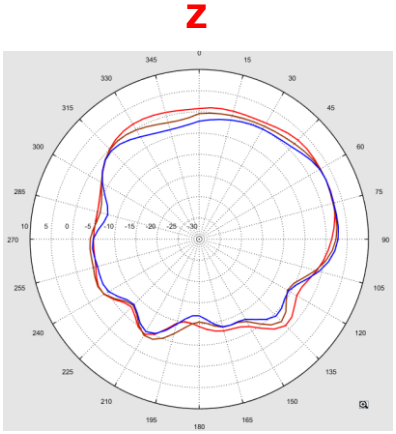
BT_ANT GainTotal (dBi) Pattern









2400MHz
2450MHz
2500MHz

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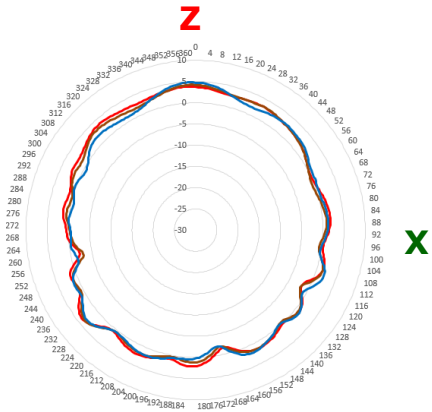
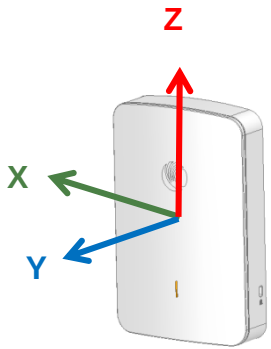
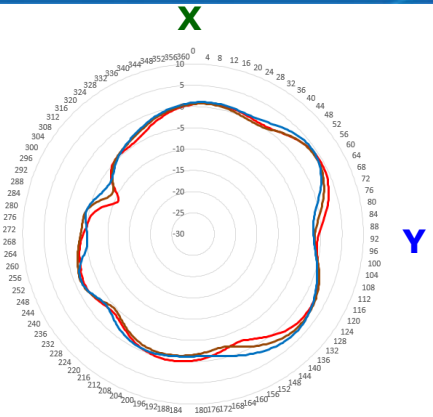
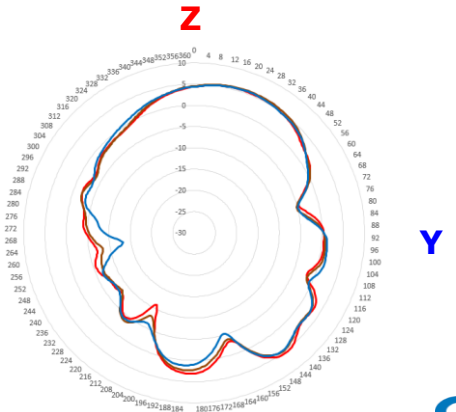
G_ANT Composite GainTotal (dBi) Pattern









2400MHz
2450MHz
2500MHz

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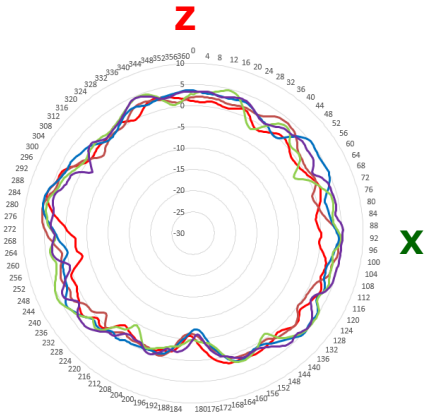
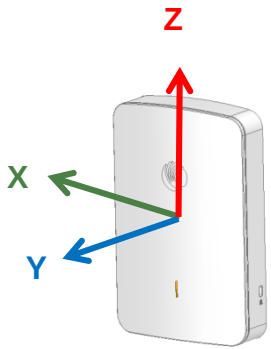
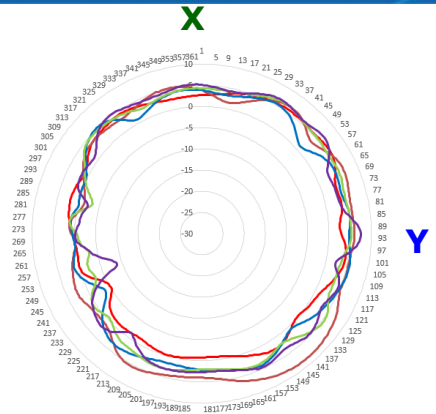
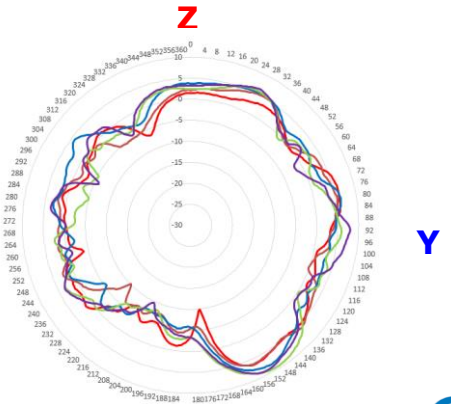
A_ANT Composite GainTotal (dBi) Pattern





5100MHz
5300MHz
5500MHz
5700MHz
5900MHz





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Antenna Efficiency & Peak Gain

WIFI G Band Antenna Efficiency (%)			
Frequency (MHz)	2400	2450	2500
G_ANT1	71.13	71.09	70.56
G_ANT2	68.79	71.72	71.3
BT	70.45	72.27	68.21

WIFI G Band Antenna Peak Gain (dBi)			
Frequency (MHz)	2400	2450	2500
G_ANT1	4.33	4.47	4.39
G_ANT2	4.03	4.37	4.42
BT	4.82	5.18	4.94

*Note. The antenna gain includes the cable loss.

Antenna Efficiency & Peak Gain

WIFI A Band Antenna Efficiency (%)					
Frequency (MHz)	5100	5300	5500	5700	5900
A_ANT1	70.23	72.81	72.61	70.29	68.09
A_ANT2	69.38	70.39	71.38	69.7	68.12

WIFI A Band Antenna Peak Gain(dBi)					
Frequency (MHz)	5100	5300	5500	5700	5900
A_ANT1	5.56	5.51	5.45	5.53	5.48
A_ANT2	5.45	5.52	5.41	5.48	5.51

*Note. The antenna gain includes the cable loss.