

An aerial view of a city at night, with a network of white lines and dots overlaid on the image, suggesting a global or digital network. The city lights are visible, and a bright sun or moon is in the sky.

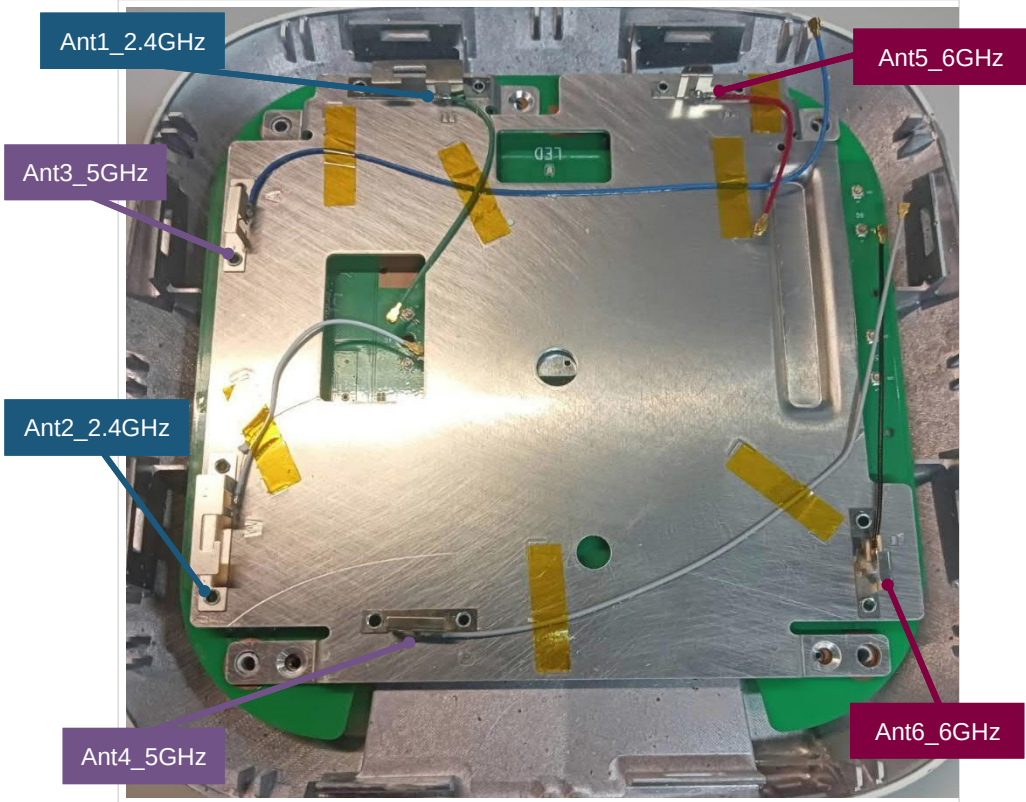
Airgain®))

DAP-X5480



Airgain Antenna System Proposal

Antenna System Proposal



Antenna #	Part Number
Ant1_2.4GHz	M01CMAEA
Ant2_2.4GHz	M01CMAEA
Ant3_5GHz	M02CMAEB
Ant4_5GHz	M02CMAEB
Ant5_6GHz	M06CMAEC
Ant6_6GHz	M06CMAEC

Antenna Efficiency (%) – 2.4G 5G & 6GHz Wi-Fi Antennas



Frequency (MHz)	Ant1_2G4 (%)	Ant2_2G4 (%)
2400	68.3	61.3
2410	68.7	64.6
2420	68.0	66.1
2430	67.8	67.4
2440	67.3	68.8
2450	66.9	69.2
2460	66.9	70.3
2470	67.1	71.5
2480	67.2	71.5
2490	66.5	70.6
Average	67.5	68.1

Frequency (MHz)	Ant3_5G (%)	Ant4_5G (%)
5150	66.1	70.2
5200	69.7	73.5
5300	68.4	71.2
5400	69.7	72.5
5500	69.0	73.0
5600	69.1	72.8
5700	68.1	71.6
5800	70.0	73.5
5850	68.4	72.5
Average	68.7	72.3

Frequency (MHz)	Ant5_6G (%)	Ant6_6G (%)
5925	73.9	72.6
6000	76.7	74.9
6100	73.8	73.2
6200	75.0	74.9
6300	72.9	72.6
6400	73.1	72.9
6500	71.8	71.8
6600	73.6	72.2
6700	73.0	69.7
6800	75.4	72.4
6900	72.8	70.9
7125	72.5	71.3
Average	73.7	72.5

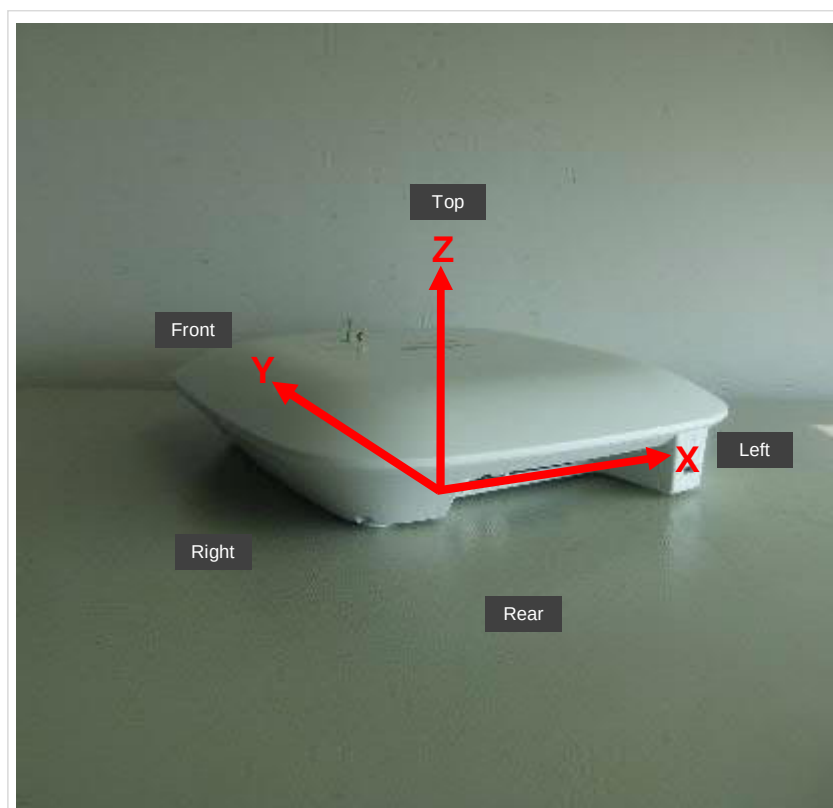
Antenna Peak Gain – 2.4G 5G & 6GHz Wi-Fi Antennas



Frequency (MHz)	Ant1_2G4 (dBi)	Ant2_2G4 (dBi)	Frequency (MHz)	Ant3_5G (dBi)	Ant4_5G (dBi)	Frequency (MHz)	Ant5_6G (dBi)	Ant6_6G (dBi)
2400	3.2	2.3	5150	4.2	4.3	5925	4.5	4.4
2410	3.2	2.4	5200	4.6	4.5	6000	5.2	4.7
2420	3.2	2.5	5300	4.9	4.3	6100	5.3	4.5
2430	3.2	2.5	5400	4.6	4.5	6200	5.0	4.7
2440	3.1	2.5	5500	4.4	4.9	6300	5.2	4.8
2450	3.0	2.4	5600	4.2	4.8	6400	5.1	4.4
2460	3.0	2.4	5700	5.0	5.2	6500	4.2	4.2
2470	3.1	2.7	5800	5.2	5.3	6600	5.0	4.6
2480	3.1	2.8	5850	5.2	5.2	6700	4.9	4.9
2490	3.2	2.9				6800	5.1	4.9
						6900	5.0	5.2
						7125	5.3	4.9

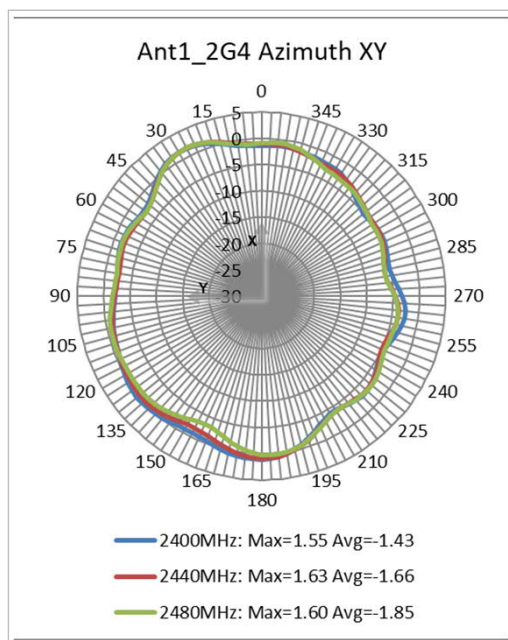
Radiation Patterns

Coordinate System for Radiation Pattern Visualization

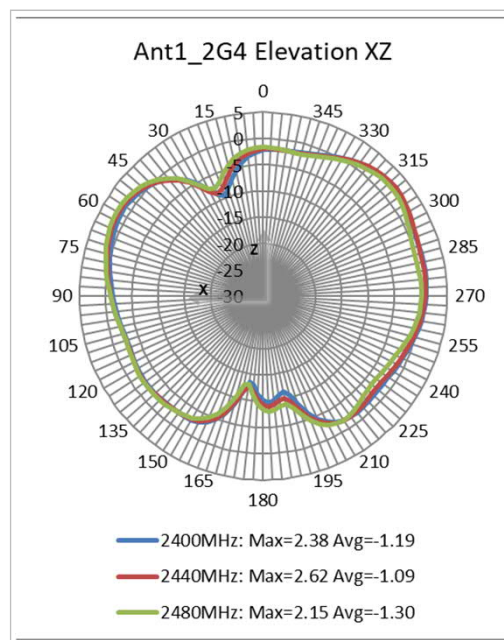


Orientation of Cameo DAP-X5480

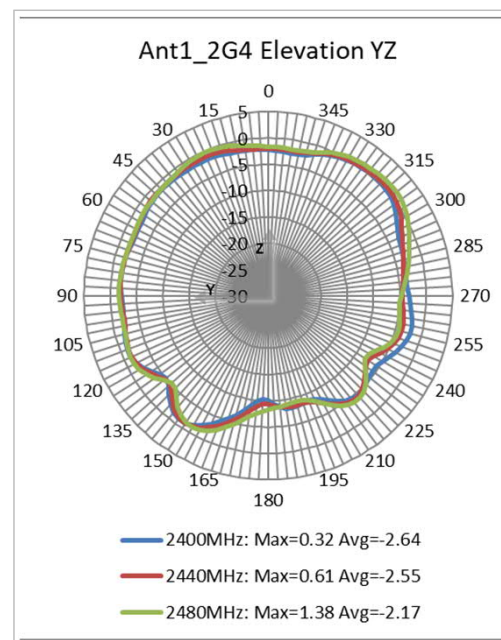
Total Gain Patterns: Ant1_2G4



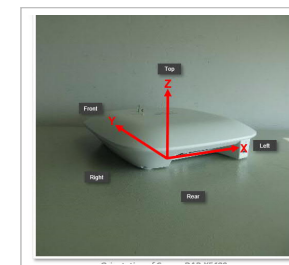
Azimuth (XY)



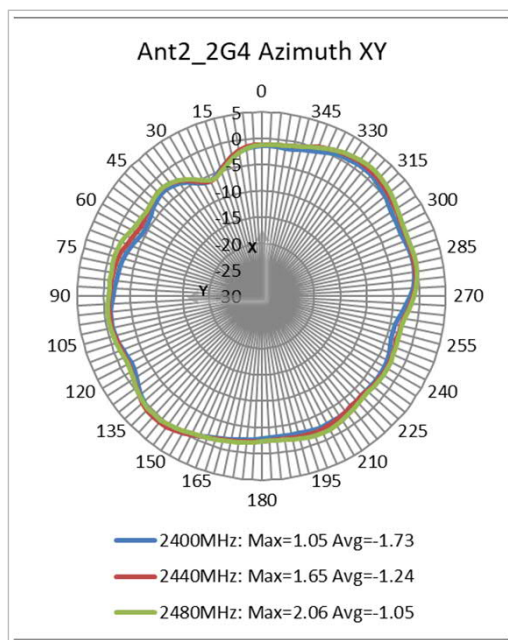
Side to Side (XZ)



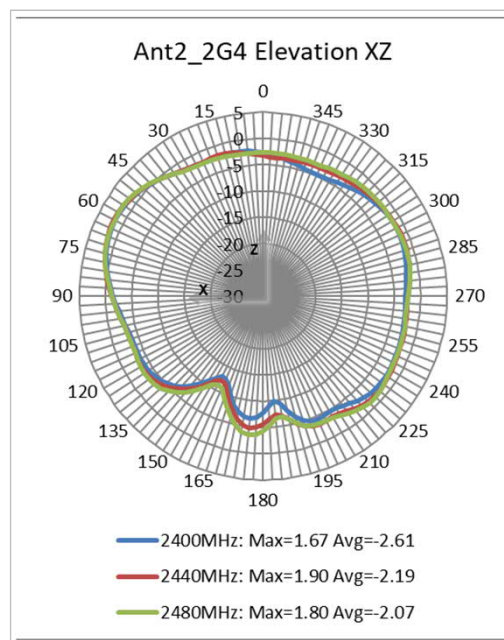
Front to Back (YZ)



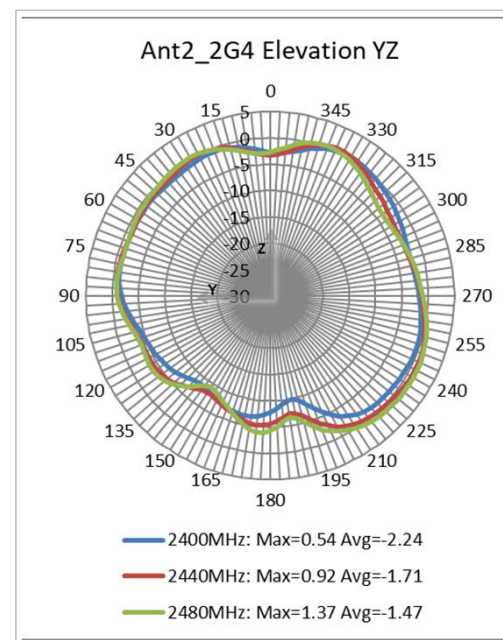
Total Gain Patterns: Ant2_2G4



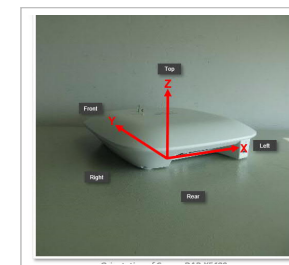
Azimuth (XY)



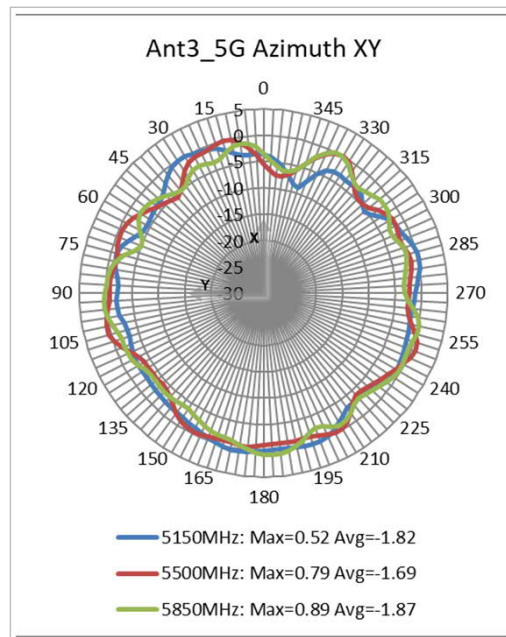
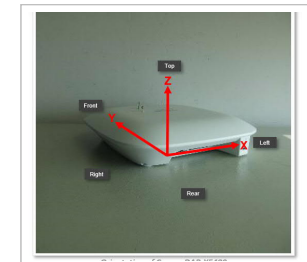
Side to Side (XZ)



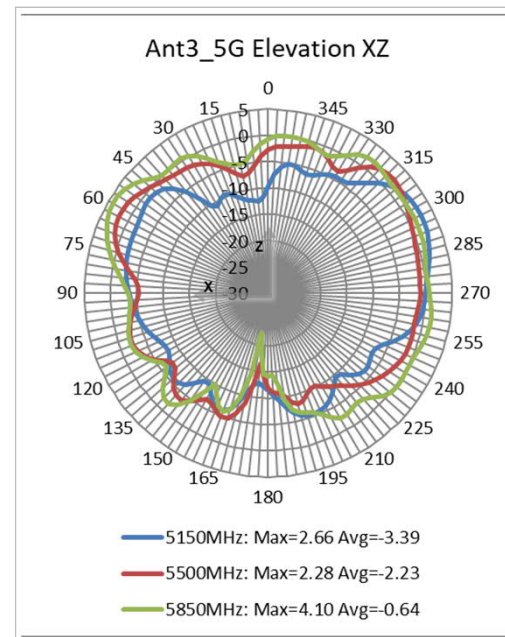
Front to Back (YZ)



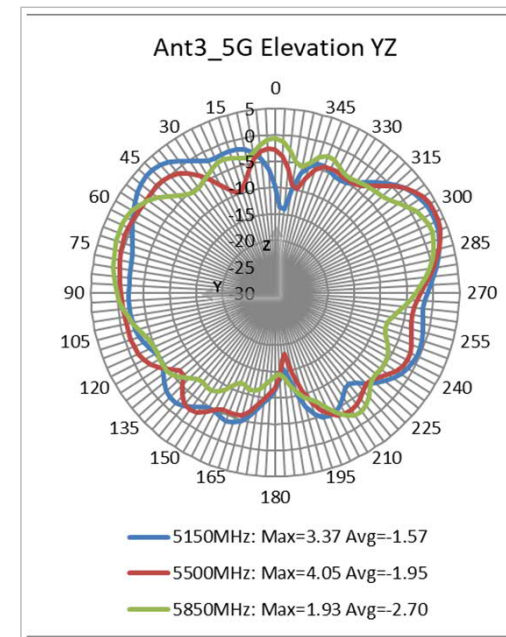
Total Gain Patterns: Ant3_5G



Azimuth (XY)

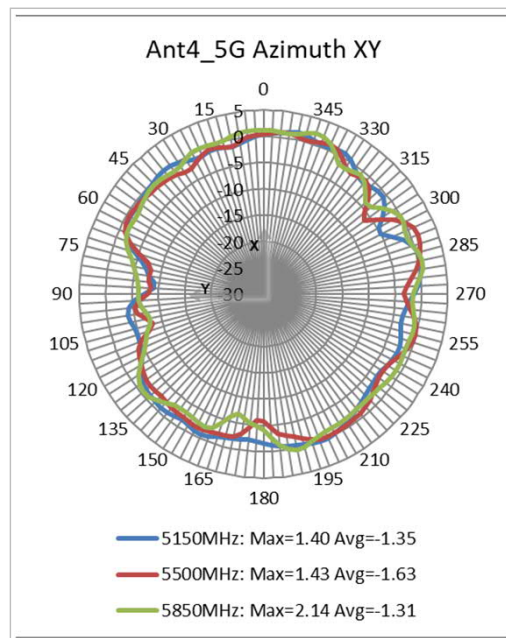
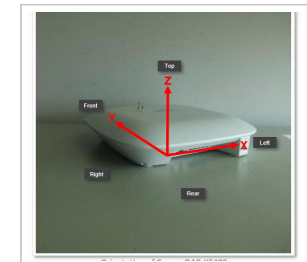


Side to Side (XZ)

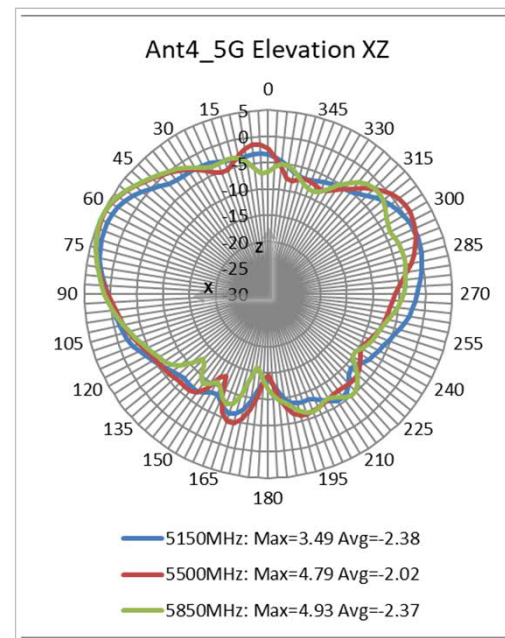


Front to Back (YZ)

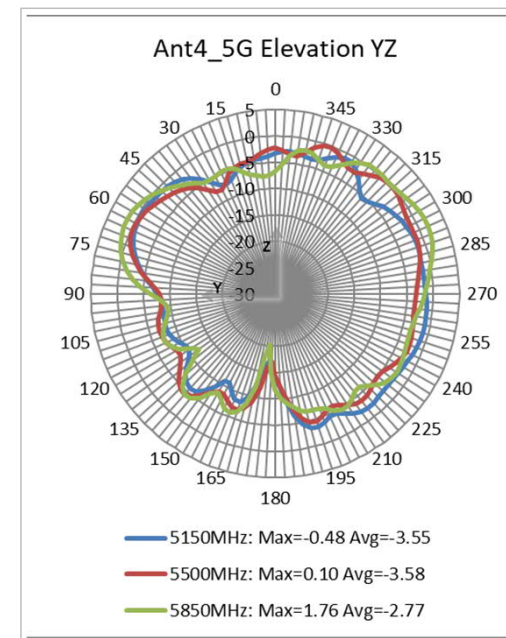
Total Gain Patterns: Ant4_5G



Azimuth (XY)

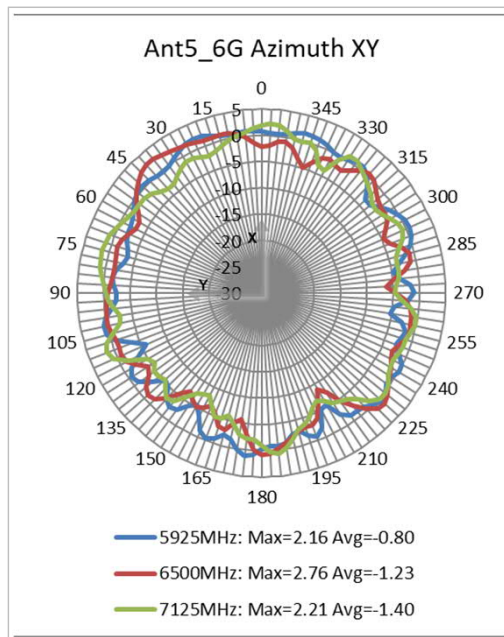


Side to Side (XZ)

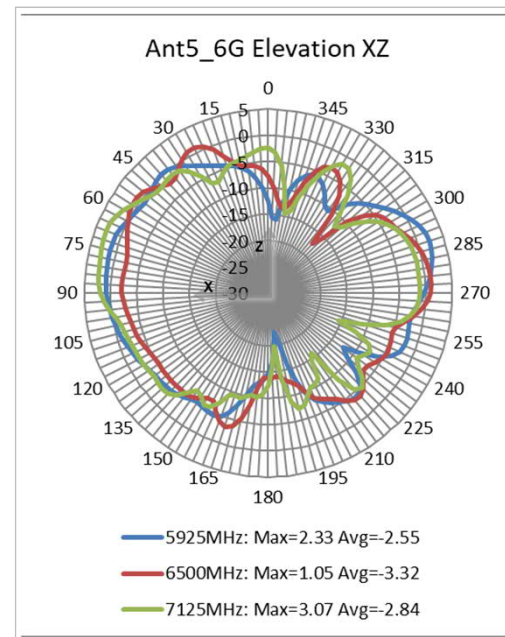


Front to Back (YZ)

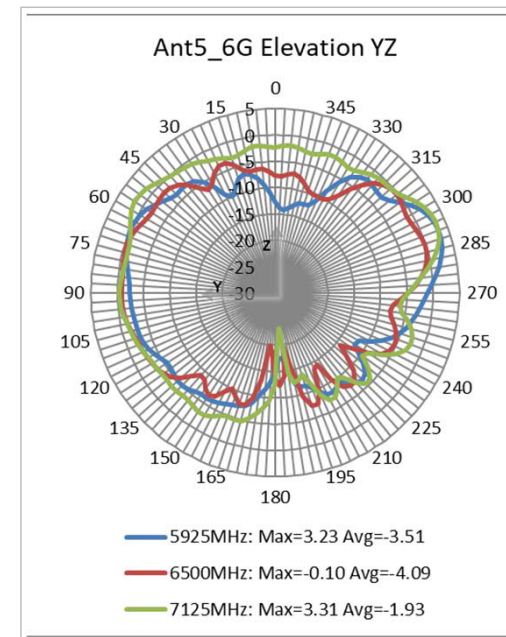
Total Gain Patterns: Ant5_6G



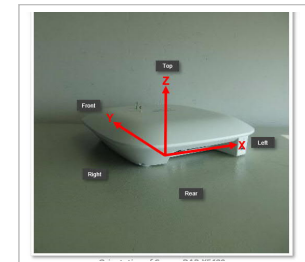
Azimuth (XY)



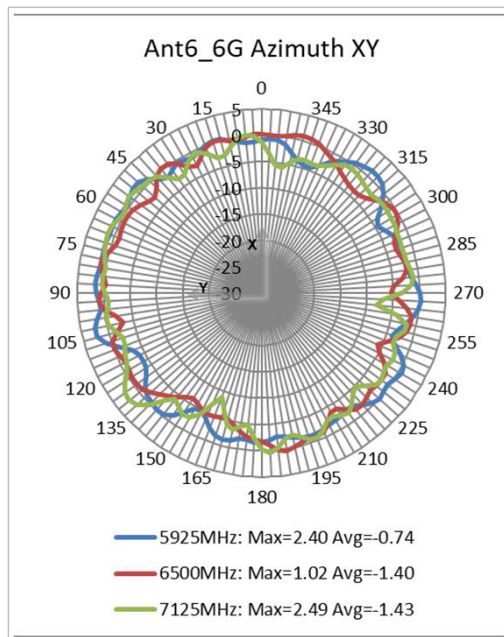
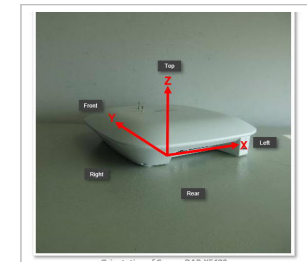
Side to Side (XZ)



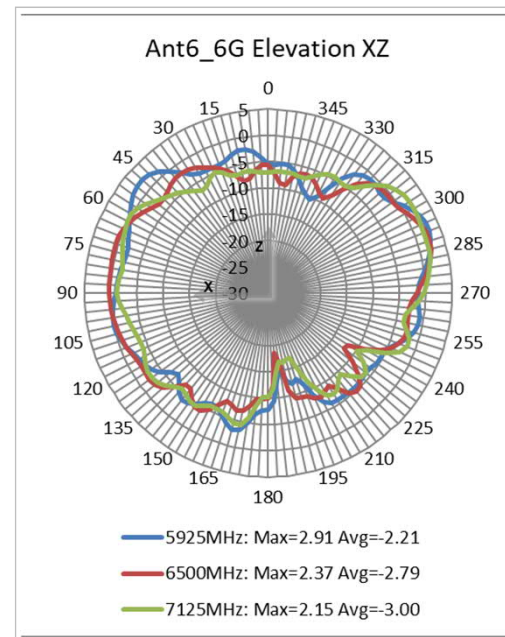
Front to Back (YZ)



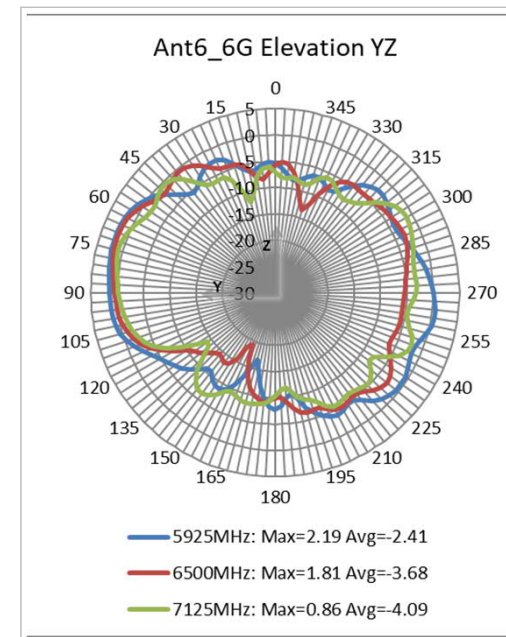
Total Gain Patterns: Ant6_6G



Azimuth (XY)



Side to Side (XZ)



Front to Back (YZ)