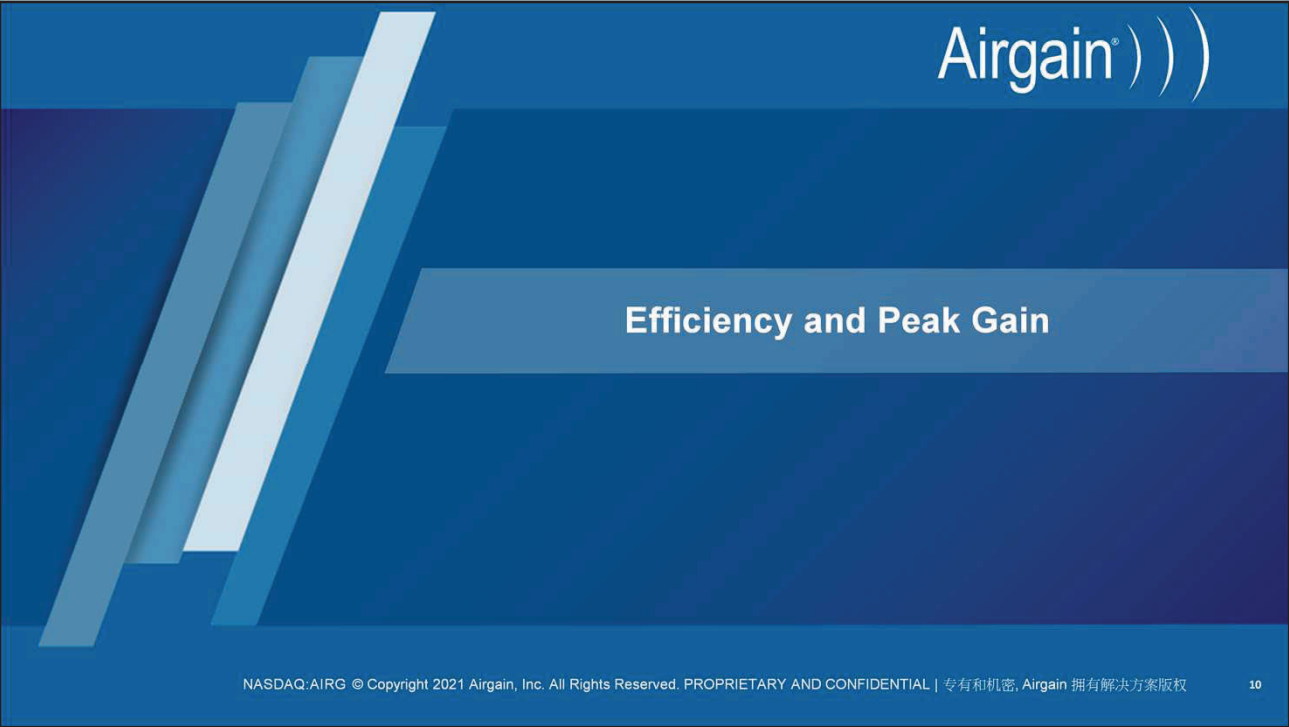




Airgain®))

Efficiency and Peak Gain

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10

Antenna Efficiency (%) – 2.4 GHz Wi-Fi Antennas

Frequency (MHz)	Ant5_2G4 (%)	Ant6_2G4 (%)	Ant7_2G4 (%)	Ant8_2G4 (%)
2400	65.4	65.3	68.9	70.4
2410	67.1	66.0	69.9	74.0
2420	69.0	67.7	72.1	77.7
2430	65.7	65.1	67.8	76.4
2440	64.2	64.0	66.1	76.8
2450	64.7	63.9	65.9	78.0
2460	64.0	63.1	64.3	77.7
2470	63.7	63.7	65.4	78.8
2480	63.3	62.6	66.0	79.1
2490	62.0	61.8	67.3	79.3
Average	64.9	64.3	67.4	76.8



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11

Antenna Efficiency (%) – 5 GHz Wi-Fi Antennas

Frequency (MHz)	Ant5_5G (%)	Ant6_5G (%)	Ant7_5G (%)	Ant8_5G (%)
5150	72.5	64.2	80.4	79.2
5200	68.0	60.7	77.2	76.8
5300	70.8	62.9	81.0	79.1
5400	65.1	60.7	77.4	75.4
5500	67.5	61.3	78.0	74.8
5600	66.9	61.1	76.1	75.1
5700	70.2	62.6	81.4	77.6
5800	65.0	60.3	76.0	75.9
5850	67.9	61.3	80.0	78.6
Average	68.2	61.7	78.6	77.0



Antenna Peak Gain – 2.4 GHz Wi-Fi Antennas

Frequency (MHz)	Ant5_2G4 (dBi)	Ant6_2G4 (dBi)	Ant7_2G4 (dBi)	Ant8_2G4 (dBi)
2400	5.7	5.0	3.8	3.6
2410	5.7	5.0	4.0	3.8
2420	5.8	5.0	4.1	4.0
2430	5.6	4.7	3.5	4.2
2440	5.5	4.8	3.4	4.3
2450	5.6	4.9	3.2	4.3
2460	5.6	4.8	2.6	4.3
2470	5.6	5.2	2.7	4.4
2480	5.5	5.4	2.6	4.5
2490	5.4	5.4	3.0	4.5



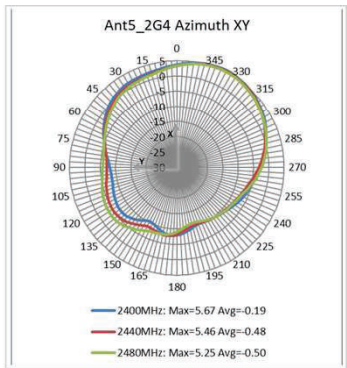
Antenna Peak Gain – 5 GHz Wi-Fi Antennas

Frequency (MHz)	Ant5_5G (dBi)	Ant6_5G (dBi)	Ant7_5G (dBi)	Ant8_5G (dBi)
5150	5.9	5.6	4.1	5.3
5200	5.7	5.6	4.3	5.0
5300	5.8	5.3	4.6	4.1
5400	4.6	4.8	4.4	4.2
5500	4.1	4.2	4.4	3.8
5600	4.0	3.7	4.1	4.4
5700	4.6	5.1	4.4	4.4
5800	4.5	4.8	4.3	4.8
5850	5.1	5.1	4.5	5.4

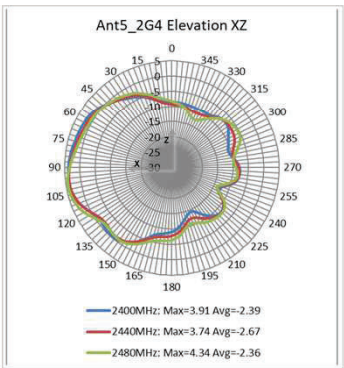


Radiation Patterns

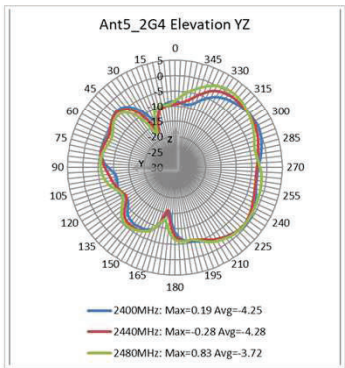
2D Patterns: Ant5_2G4 at 2.44 GHz



Azimuth



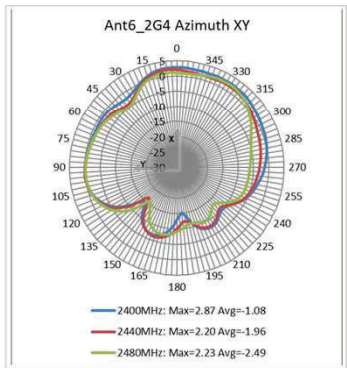
Side to Side Elevation



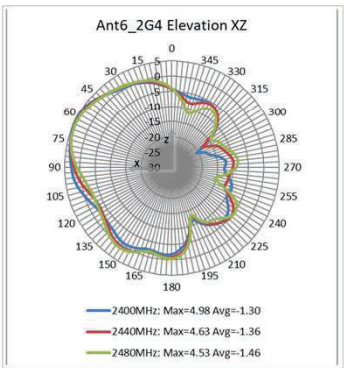
Front to Back Elevation



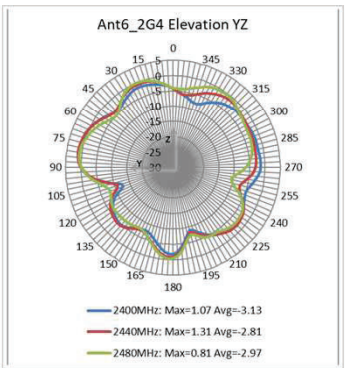
2D Patterns: Ant6_2G4 at 2.44 GHz



Azimuth



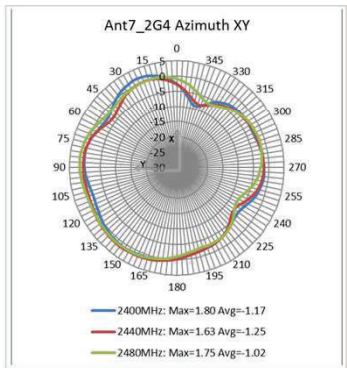
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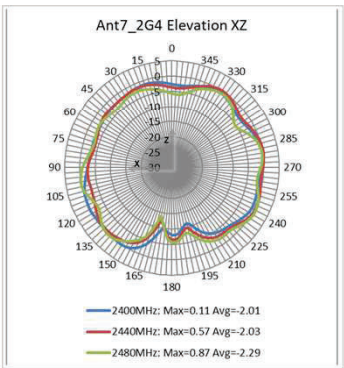
Front to Back Elevation



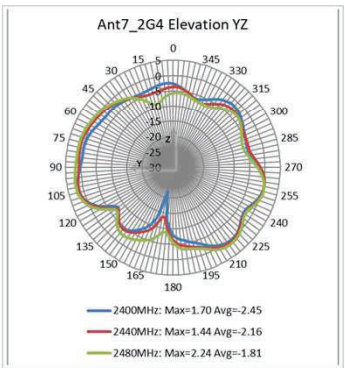
2D Patterns: Ant7_2G4 at 2.44 GHz



Azimuth



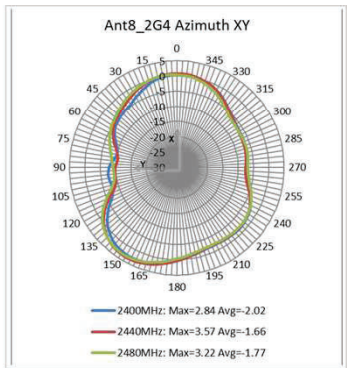
Side to Side Elevation



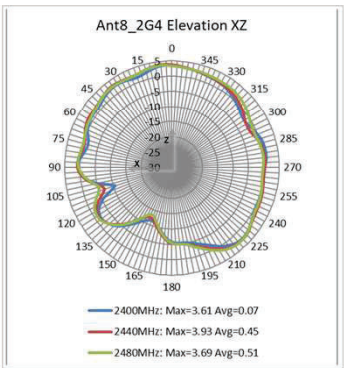
Front to Back Elevation



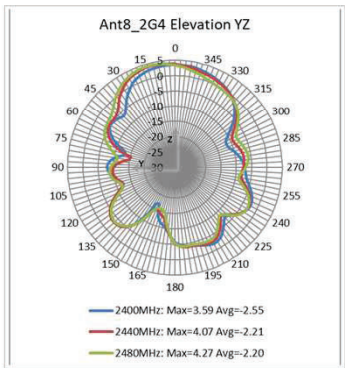
2D Patterns: Ant8_2G4 at 2.44 GHz



Azimuth



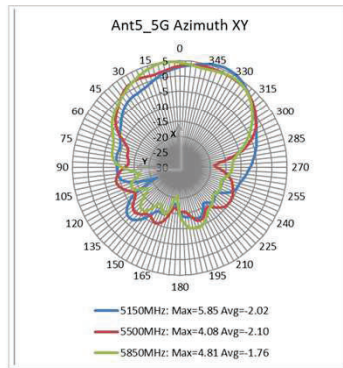
Side to Side Elevation



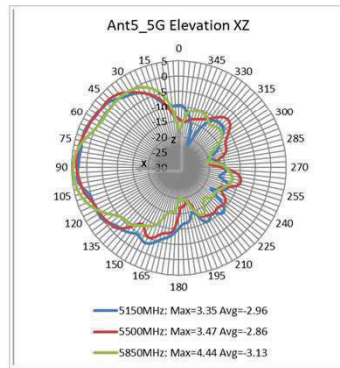
Front to Back Elevation



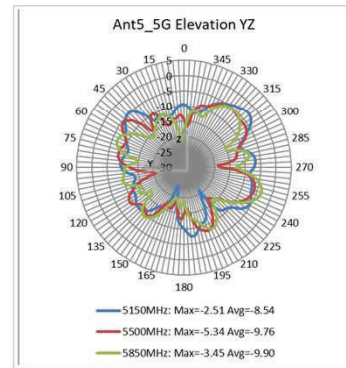
2D Patterns: Ant5_5G at 5.5 GHz



Azimuth



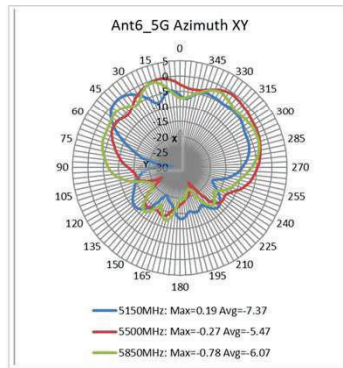
Side to Side Elevation



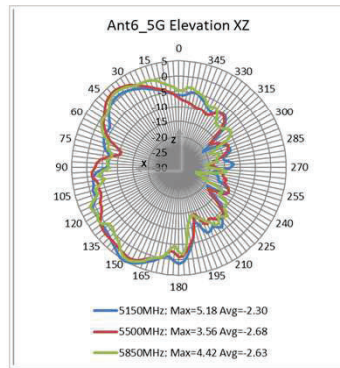
Front to Back Elevation



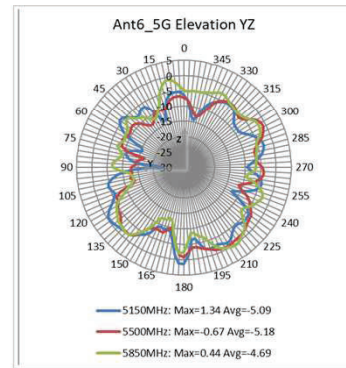
2D Patterns: Ant6_5G at 5.5 GHz



Azimuth



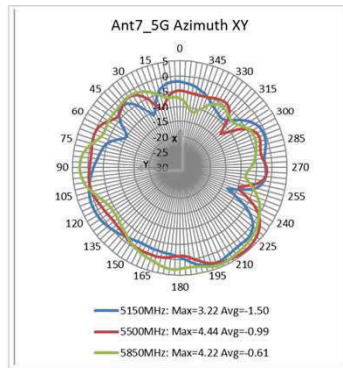
Side to Side Elevation



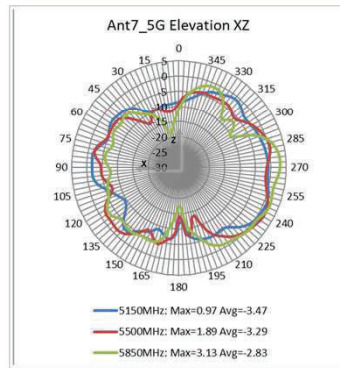
Front to Back Elevation



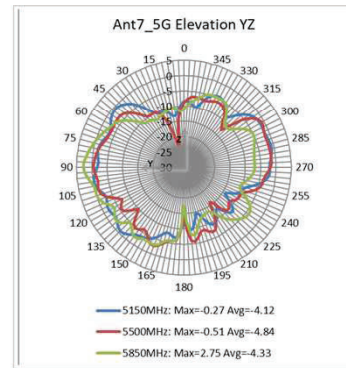
2D Patterns: Ant7_5G at 5.5 GHz



Azimuth



Side to Side Elevation

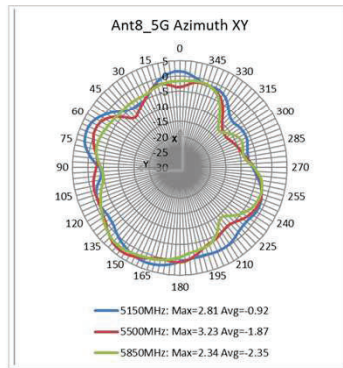


Front to Back Elevation

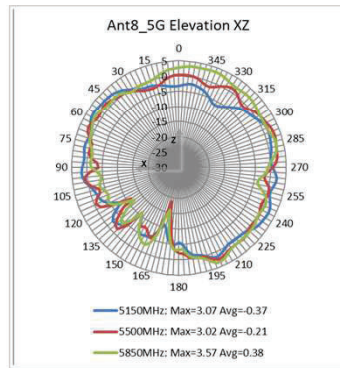


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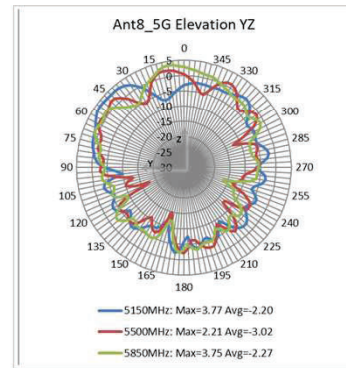
2D Patterns: Ant8_5G at 5.5 GHz



Azimuth



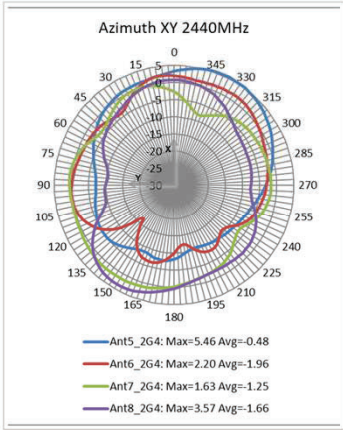
Side to Side Elevation



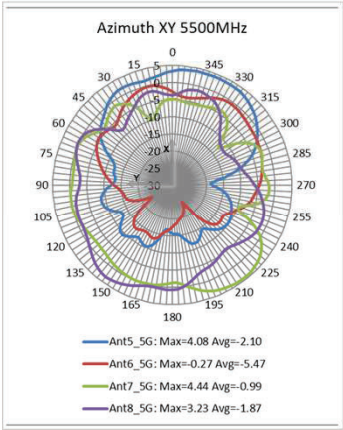
Front to Back Elevation



System Coverage: Azimuth at 2.44 GHz & 5.5 GHz



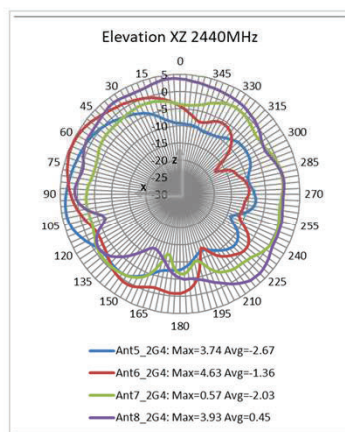
WiFi Antennas @ 2.44 GHz



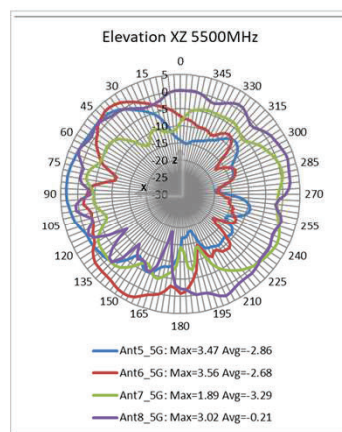
WiFi Antennas @ 5.5 GHz



System Coverage: Side to Side Elevation at 2.44 GHz & 5.5 GHz



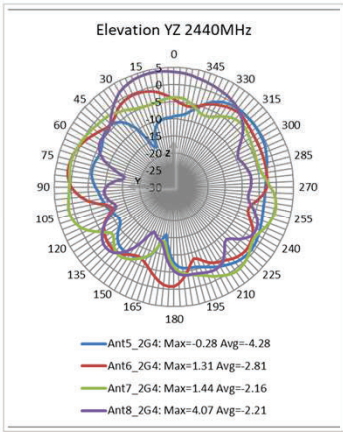
WiFi Antennas @ 2.44 GHz



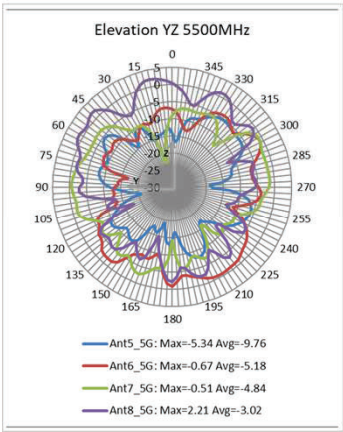
WiFi Antennas @ 5.5 GHz



System Coverage: Front to Back Elevation at 2.44 GHz & 5.5 GHz



WiFi Antennas @ 2.44 GHz

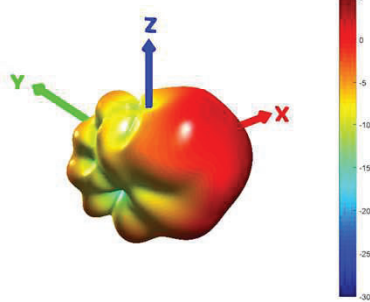


WiFi Antennas @ 5.5 GHz

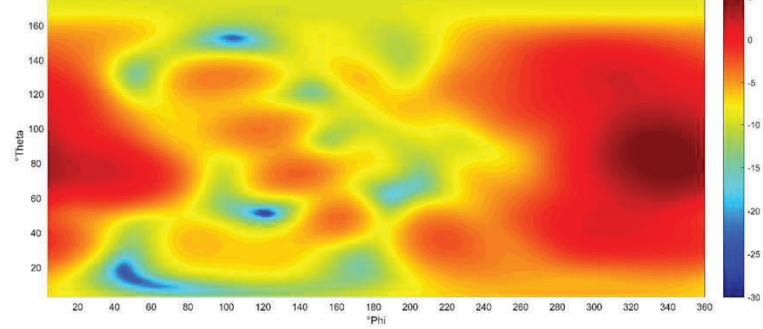


3D Pattern – Ant5 at 2.44 GHz

RTL6316 Ant5_2G4: Frequency = 2440 MHz Peak Gain = 5.5 dBi



RTL6316 Ant5_2G4: Frequency = 2440 Max Gain= 5.5 dBi

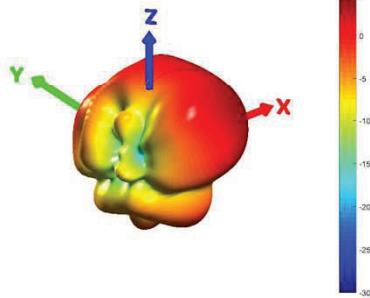


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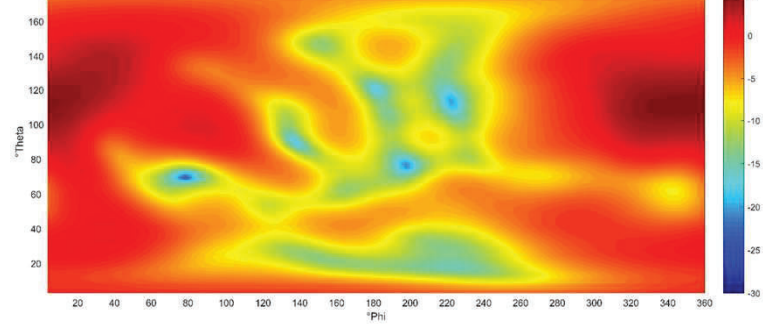
28

3D Pattern – Ant6 at 2.44 GHz

RTL6316 Ant6_2G4: Frequency = 2440 MHz Peak Gain = 4.8 dBi



RTL6316 Ant6_2G4: Frequency = 2440 Max Gain= 4.8 dBi

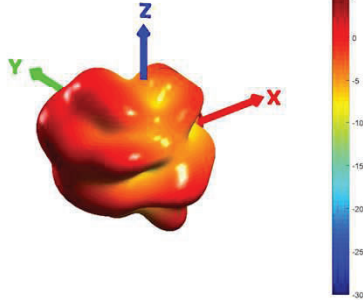


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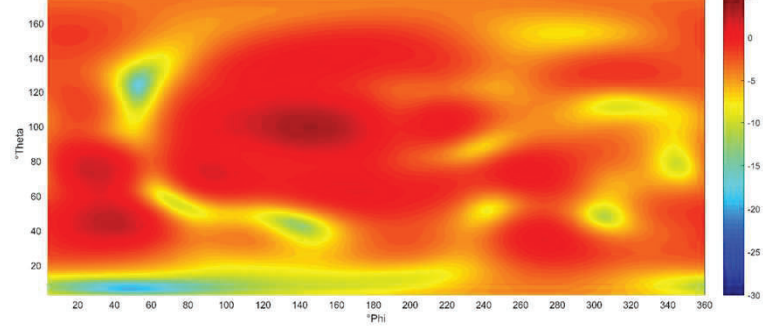
29

3D Pattern – Ant7 at 2.44 GHz

RTL6316 Ant7_2G4: Frequency = 2440 MHz Peak Gain = 3.4 dBi



RTL6316 Ant7_2G4: Frequency = 2440 Max Gain= 3.4 dBi

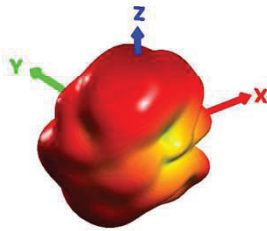


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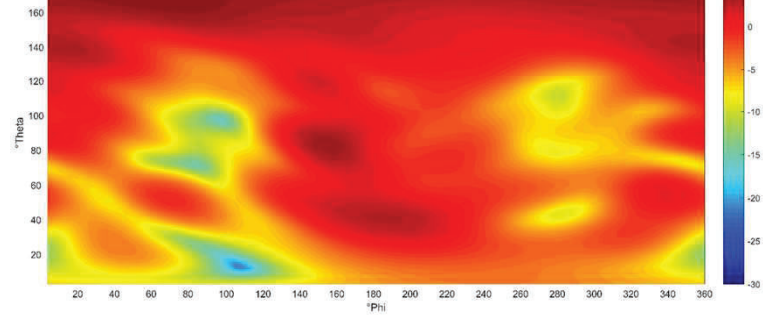
30

3D Pattern – Ant8 at 2.44 GHz

RTL6316 Ant8_2G4: Frequency = 2440 MHz Peak Gain = 4.3 dBi



RTL6316 Ant8_2G4: Frequency = 2440 Max Gain= 4.3 dBi

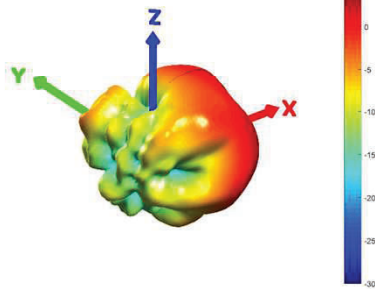


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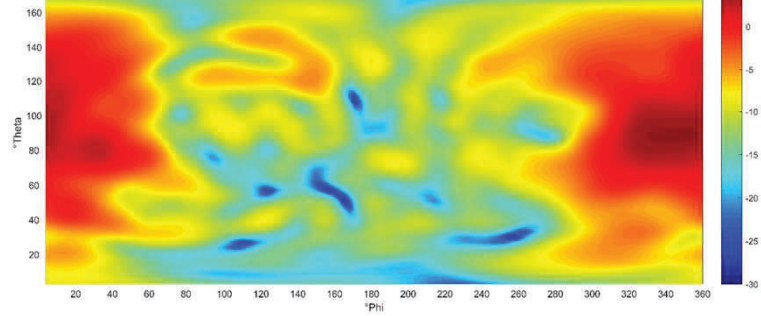
31

3D Pattern – Ant5 at 5.5 GHz

RTL6316 Ant5_5G: Frequency = 5500 MHz Peak Gain = 4.1 dBi



RTL6316 Ant5_5G: Frequency = 5500 Max Gain= 4.1 dBi

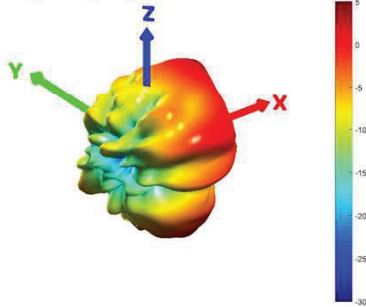


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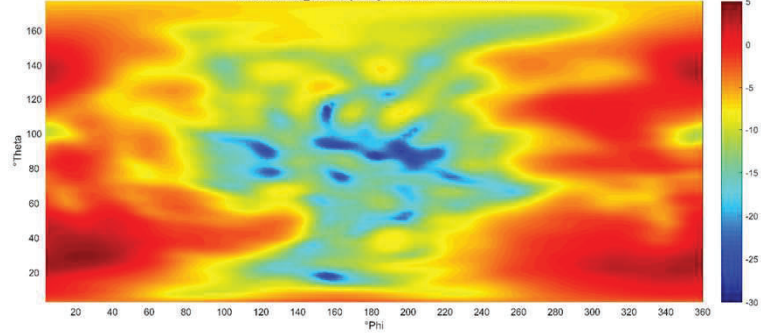
32

3D Pattern – Ant6 at 5.5 GHz

RTL6316 Ant6_5G: Frequency = 5500 MHz Peak Gain = 4.2 dBi



RTL6316 Ant6_5G: Frequency = 5500 Max Gain= 4.2 dBi

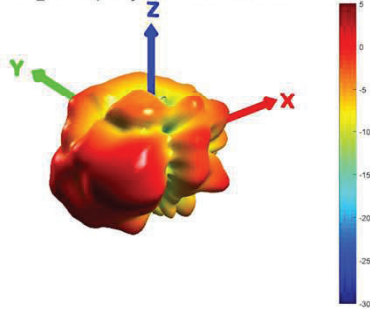


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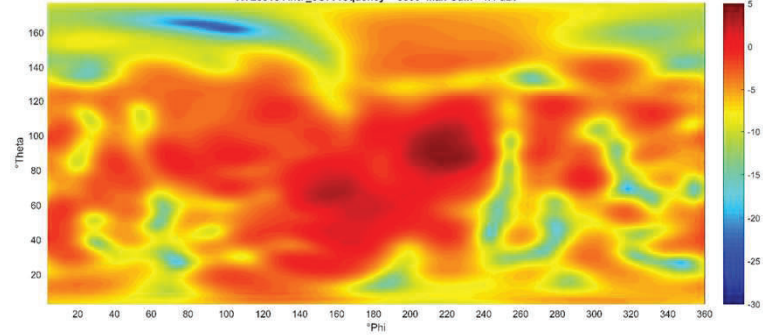
33

3D Pattern – Ant7 at 5.5 GHz

RTL6316 Ant7_5G: Frequency = 5500 MHz Peak Gain = 4.4 dBi



RTL6316 Ant7_5G: Frequency = 5500 Max Gain= 4.4 dBi

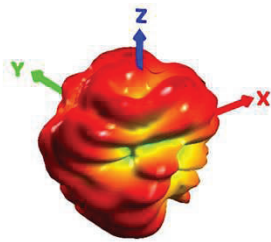


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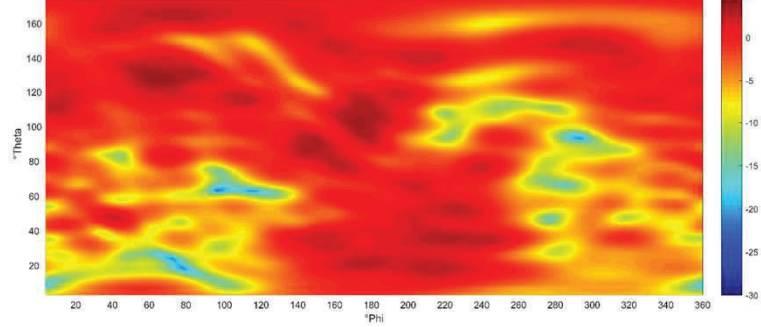
34

3D Pattern – Ant8 at 5.5 GHz

RTL6316 Ant8_5G: Frequency = 5500 MHz Peak Gain = 3.8 dBi



RTL6316 Ant8_5G: Frequency = 5500 Max Gain= 3.8 dBi

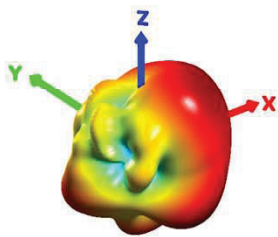


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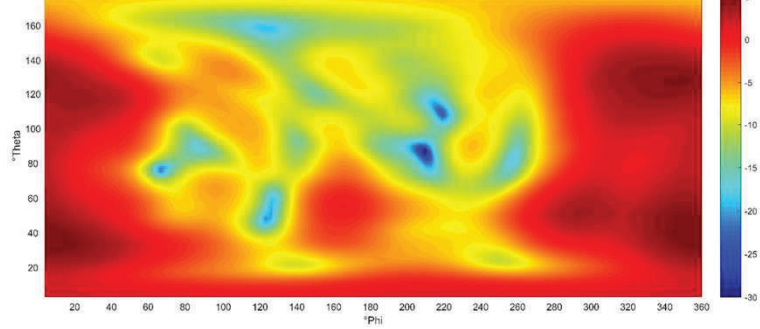
35

3D Pattern – Ant4 at 2.11 GHz

RTL6316 Ant4_1G7: Frequency = 2110 MHz Max Gain= 5.1 dBi



RTL6316 Ant4_1G7: Frequency = 2110 Max Gain= 5.1 dBi



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