

Antenna Composite Gain Test Report

1. Test Information

Equipment	Campus Access Points
Brand Name	Aruba
Model Name	AP755
Applicant	Aruba
Manufacturer	Aruba

2. Testing Location

Testing Location	
WNC	ADD : 20 Park Ave. II, Hsinchu Science Park, Hsinchu 308 Taiwan

Test Condition	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	Leo Chuang	20-24 / 45-60	03.20.2024~04.03.2024

3. Test Frequency

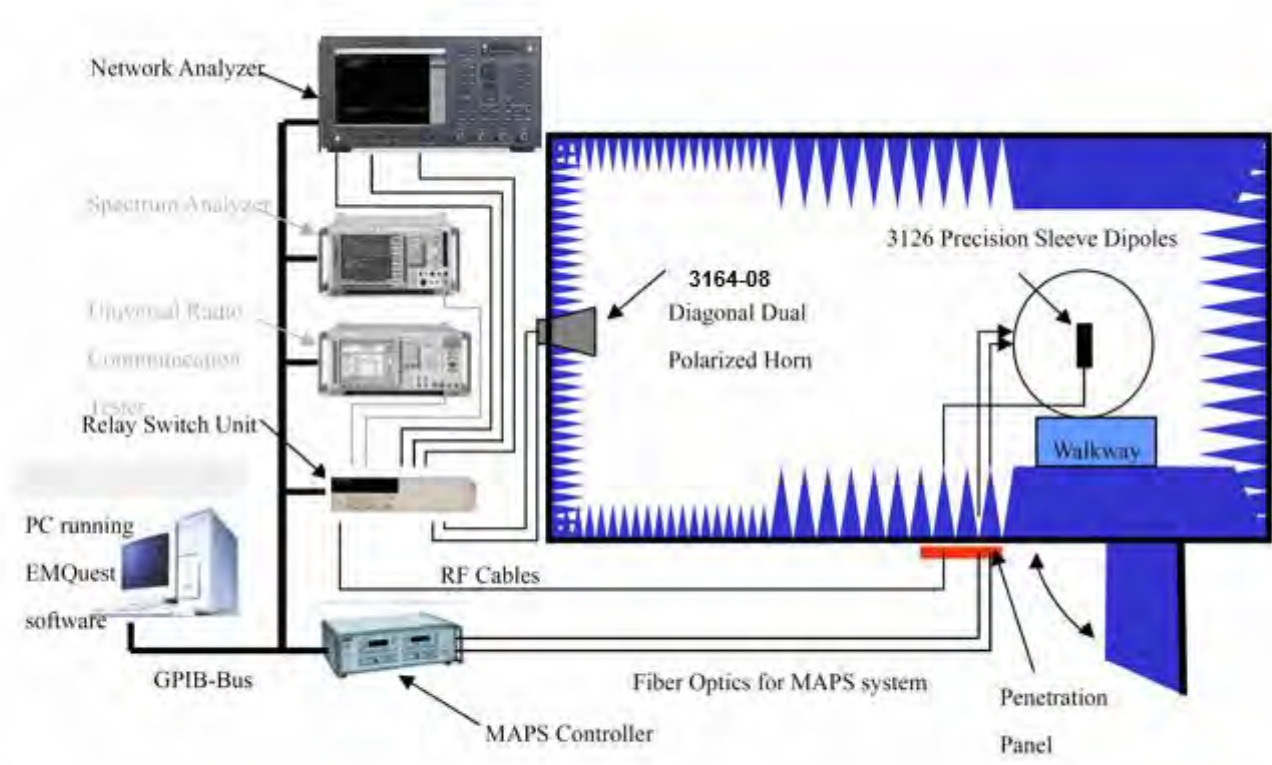
Band (MHz)	Test Frequency (MHz)
1165-1185	1176
1560-1590	1575
2401-2423	2401
2441-2463	2452
2473-2484	2484
5150-5250	5150
5470-5725	5550
5725-5850	5850
5850~5895	5850, 5895
5925-6425	5925
6425-6525	6555
6875-7125	7125

4. Antenna Information

Ant. Position	Brand Name	Model Name	Ant. Type	Connector
Antenna 1 (5G/6G)	Aruba	95XPAD15.G38	PIFA	I-PEX
Antenna 2 (5G/6G)	Aruba	95XPAD15.G39	PIFA	I-PEX
Antenna 3 (5G/6G)	Aruba	95XPAD15.G40	Alford Loop	I-PEX
Antenna 4 (5G/6G)	Aruba	95XPAD15.G41	Alford Loop	I-PEX
Antenna 5 (6G)	Aruba	95XPAD15.G42	Alford Loop	I-PEX
Antenna 6 (6G)	Aruba	95XPAD15.G43	Alford Loop	I-PEX
Antenna 7 (2G/6G)	Aruba	95XPAD15.G44	PIFA	I-PEX
Antenna 8 (2G/6G)	Aruba	95XPAD15.G45	PIFA	I-PEX

Antenna 9 (2G/5G/6G)	Aruba	95XPAD15.G46	Dipole	I-PEX
Antenna 10 (2G/5G/6G)	Aruba	95XPAD15.G47	Dipole	I-PEX
Antenna 11 (2G/5G/6G)	Aruba	95XPAD15.G48	PIFA	I-PEX
Antenna 12 (2G/5G/6G)	Aruba	95XPAD15.G49	PIFA	I-PEX
Antenna 13 (GPS)	Aruba	95XPAD15.G50	PIFA	I-PEX
Antenna 14 (BLE)	Aruba	95XPAD15.G51	Alford Loop	I-PEX

5. Test Configuration

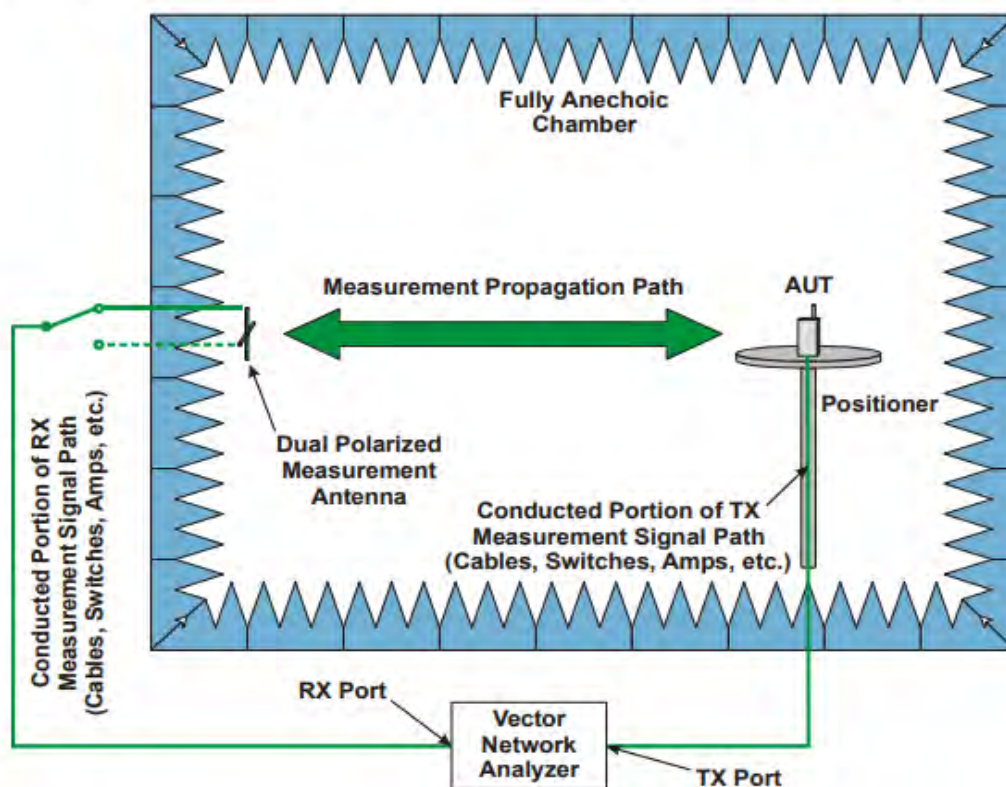


ETS-AMS 8500 System

Item	Device	Type/Model	Serial#	Manufacturer	Cal. Date	Cal. Due Date
1	Anechoic Chamber	ETS-AMS	8500	ETS-Lindgren	2024/03/09	2025/03/08
2	Turn Table	ETS		ETS-Lindgren	2024/03/09	2025/03/08
3	Multi-Device Positioning Controller	Model 2090	142407	ETS-Lindgren	2024/03/09	2025/03/08
4	Network Analyzer	E5071C	0171E5485A6J	Keysight	2023/05/31	2024/05/30
5	Horn antenna	3164-08	140264	ETS-Lindgren	2024/03/09	2025/03/08
6	Cable 7.5m 400MHz to 18GHz (H-pol)	SS402	00100A1F5A1XXS	Woken	2024/03/09	2025/03/08
7	Cable 7.5m 400MHz to 18GHz (V-pol)	SS402	00100A1F5A1XXS	Woken	2024/03/09	2025/03/08
8	Cable 14m 400MHz to 18GHz	SS402	00100A1F5A1XXS	Woken	2024/03/09	2025/03/08
9	Temperature & Humidity Meter	HTC-01		Metravi	2024/03/09	2025/03/08

6. Reference Calibration

Range Calibration Configuration (Passive)



7. Test Method

The “great circle” cut method, whereby the Measurement Antenna remains fixed and the EUT is rotated about two axes in sequential order. The radiated RF performance of the Equipment Under Test (EUT) is measured by sampling the radiated transmit power of the mobile at various locations surrounding the device. A three-dimensional characterization of the 'transmit' performance of the EUT is pieced together by analyzing the data from the spatially distributed measurements.

Data points taken every 15 degrees in the theta and in the phi axes are deemed sufficient to fully characterize the EUT's Far-Field radiation pattern and total radiated power. All of the measured power values will be integrated.

8. Measured Values and Calculation of Correlated / Uncorrelated Gains

Antenna Peak Gain Table (Ant. Position : 5G/6G Ant.1~4)

Band (MHz)	5150-5470	5470-5725	5725-5850	5850~5895	
Frequency (MHz)	5150	5550	5850	5850	5895
Ant.1 Max Gain (dBi)	3.7	5.5	5.4	5.4	5.5
Ant.2 Max Gain (dBi)	3.4	5.8	4.4	4.4	4.5
Ant.3 Max Gain (dBi)	3.8	4.4	3.5	3.5	4.2
Ant.4 Max Gain (dBi)	4.7	4.6	4.1	4.1	4.1
Max Gain (dBi)	4.7	5.8	5.4	5.4	5.5

Band (MHz)	5925-6425	6425-6525	6525-7125
Frequency (MHz)	5925	6555	7125
Ant.1 Max Gain (dBi)	5.1	5.3	6.0
Ant.2 Max Gain (dBi)	4.8	5.8	4.8
Ant.3 Max Gain (dBi)	4.6	3.6	3.3
Ant.4 Max Gain (dBi)	4.0	4.3	3.0
Max Gain (dBi)	5.1	5.8	6.0

Antenna Peak Gain Table (Ant. Position : 6G Ant.5~8)

Band (MHz)	5925-6425	6425-6525	6525-7125
Frequency (MHz)	5925	6555	7125
Ant.3 Max Gain (dBi)	4.4	4.3	4.6
Ant.4 Max Gain (dBi)	4.1	4.6	4.6
Ant.3 Max Gain (dBi)	5.9	5.4	5.7
Ant.4 Max Gain (dBi)	5.2	5.7	5.3
Max Gain (dBi)	5.9	5.7	5.7

Antenna Peak Gain Table (Ant. Position : 2G/5G/6G Ant.9~12)

Band (MHz)	2401-2423	2441-2463	2473-2484
Frequency (MHz)	2401	2452	2484
Ant.9 Max Gain (dBi)	4.8	5.0	4.7
Ant.10 Max Gain (dBi)	4.5	5.0	5.2
Ant.11 Max Gain (dBi)	2.3	3.6	4.1
Ant.12 Max Gain (dBi)	2.8	3.2	3.2
Max Gain (dBi)	4.8	5.0	5.2

Band (MHz)	5150-5470	5470-5725	5725-5850	5850~5895	
Frequency (MHz)	5150	5550	5850	5850	5895
Ant.9 Max Gain (dBi)	4.4	5.6	5.6	5.6	5.7
Ant.10 Max Gain (dBi)	4.9	5.1	5.0	5.0	4.4
Ant.11 Max Gain (dBi)	4.6	3.6	4.0	4.0	4.0
Ant.12 Max Gain (dBi)	3.9	4.7	5.4	5.4	5.7
Max Gain (dBi)	4.9	5.6	5.6	5.6	5.7

Band (MHz)	5925-6425	6425-6525	6525-7125
Frequency (MHz)	5925	6555	7125
Ant.9 Max Gain (dBi)	5.6	5.7	5.3
Ant.10 Max Gain (dBi)	4.6	5.2	5.0
Ant.11 Max Gain (dBi)	4.5	3.3	4.2
Ant.12 Max Gain (dBi)	4.7	4.1	5.0
Max Gain (dBi)	5.6	5.7	5.3

Antenna Peak Gain Table (Ant. Position : GPS Ant.13)

Band (MHz)	1165-1185	1560-1590
Frequency (MHz)	1176	1575
Ant.13 Max Gain (dBi)	2.9	3.3

Antenna Peak Gain Table (Ant. Position : BLE Ant.7~8, 14)

Band (MHz)	2401-2423	2441-2463	2473-2484
Frequency (MHz)	2401	2452	2484
Ant.7 Max Gain (dBi)	2.9	3.9	4.4
Ant.8 Max Gain (dBi)	2.1	2.1	2.1
Ant.14 Max Gain (dBi)	5.2	5.7	5.3
Max Gain (dBi)	5.2	5.7	5.3

Antenna Correlated / Uncorrelated Gain Table (Ant. Position : 5G/6G Ant.1~4)

Frequency (MHz)	Correlated Gain (dBi)	Uncorrelated Gain (dBi)
5150	8.4	2.7
5550	9.5	3.6
5850	9.0	3.0
5895	8.1	2.4
5925	8.1	2.4
6555	9.2	3.2
7125	8.5	2.8

Antenna Correlated / Uncorrelated Gain Table (Ant. Position : 6G Ant.5~8)

Frequency (MHz)	Correlated Gain (dBi)	Uncorrelated Gain (dBi)
5925	9.1	3.1
6555	9.0	3.0
7125	9.4	3.6

Antenna Correlated / Uncorrelated Gain Table (Ant. Position : 2G/5G/6G Ant.9~12)

Frequency (MHz)	Correlated Gain (dBi)	Uncorrelated Gain (dBi)
2401	8.2	2.4
2452	8.7	2.9
2484	9.0	3.1
5150	9.5	3.5
5550	9.5	3.6
5850	9.6	3.7
5895	9.2	3.4
5925	9.4	3.6
6555	9.5	3.6
7125	8.7	3.0

Antenna Correlated / Uncorrelated Gain Table (Ant. Position : BLE Ant.7, 14)

Frequency (MHz)	Correlated Gain (dBi)	Uncorrelated Gain (dBi)
2401	6.6	3.7
2452	7.2	4.2
2484	7.1	4.1

Antenna Correlated / Uncorrelated Gain Table (Ant. Position : BLE Ant.7, 8)

Frequency (MHz)	Correlated Gain (dBi)	Uncorrelated Gain (dBi)
2401	4.9	2.0
2452	5.2	2.3
2484	5.5	2.7

Because the antennas are fixed in location within the device the directional antenna gain for MIMO is calculated over a sphere using the raw spatial data taken at 5 degree steps of theta and phi for each antenna using the equations from KDB 662911 D01. The raw antenna data is located in the appendix of this report.

The correlated antenna gain was calculated using KDB 662911 D01, F(2)(d)(i). The uncorrelated antenna gain was calculated using KDB 662911 D01, F(2)(d)(ii).

The uncorrelated and correlated gains were calculated for each point in the spatial data, and the highest values reported.

Note :

KDB 662911 D01, F(2)(d)(i)

$$\text{Correlated Gain} = 10 \log \left[\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2 / N_{Ant.} \right] \text{ dBi}$$

KDB 662911 D01, F(2)(d)(ii)

$$\text{Uncorrelated Gain} = 10 \log \left[\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_n}{10}} \right) / N_{Ant.} \right] \text{ dBi}$$

$N_{Ant.}$: Number of antenna

G_n : Gain of antenna

Maximum Correlated / Uncorrelated Gain Calculation (Ant. Position : 5G/6G Ant.1~4)

Frequency (MHz)	5550	6555
Ant.1 Gain (dBi)	4.37	1.02
Ant.2 Gain (dBi)	3.57	3.92
Ant.3 Gain (dBi)	4.12	3.32
Ant.4 Gain (dBi)	1.84	4.02
Phi (°)	160	325
Theta (°)	50	45
Corr. Ant. Gain (dBi) [10 ^{^(G₁/20)} +10 ^{^(G₂/20)}] ² /N _{ANT.}	9.02	8.26
Uncor. Ant. Gain (dBi) [10 ^{^(G₁/10)} +10 ^{^(G₂/10)}]/N _{ANT.}	2.28	2.10
Corr. Gain (dBi) 10*log(Corr. Ant. Gain)	9.5	9.2
Uncor. Gain (dBi) 10*log(Uncor. Ant. Gain)	3.6	3.2

(Ant. Position : 6G Ant.5~8)

Frequency (MHz)	7125
Ant.5 Gain (dBi)	2.68
Ant.6 Gain (dBi)	0.67
Ant.7 Gain (dBi)	5.44
Ant.8 Gain (dBi)	4.19
Phi (°)	340
Theta (°)	45
Corr. Ant. Gain (dBi) $[10^{(G_1/20)}+10^{(G_2/20)}]^2/N_{ANT.}$	8.80
Uncor. Ant. Gain (dBi) $[10^{(G_1/10)}+10^{(G_2/10)}]/N_{ANT.}$	2.29
Corr. Gain (dBi) $10 \cdot \log(\text{Corr. Ant. Gain})$	9.4
Uncor. Gain (dBi) $10 \cdot \log(\text{Uncor. Ant. Gain})$	3.6

(Ant. Position : 2G/5G/6G Ant.9~12)

Frequency (MHz)	2484	5850	6555
Ant.9 Gain (dBi)	2.08	5.39	5.01
Ant.10 Gain (dBi)	4.73	3.93	4.55
Ant.11 Gain (dBi)	2.00	1.63	1.88
Ant.12 Gain (dBi)	2.80	2.99	2.17
Phi (°)	215	5	315
Theta (°)	40	15	5
Corr. Ant. Gain (dBi) $[10^{(G_1/20)}+10^{(G_2/20)}]^2/N_{ANT.}$	7.93	9.15	8.98
Uncor. Ant. Gain (dBi) $[10^{(G_1/10)}+10^{(G_2/10)}]/N_{ANT.}$	2.02	2.35	2.30
Corr. Gain (dBi) $10 \cdot \log(\text{Corr. Ant. Gain})$	9.0	9.6	9.5
Uncor. Gain (dBi) $10 \cdot \log(\text{Uncor. Ant. Gain})$	3.1	3.7	3.6

(Ant. Position : BLE Ant.7, 14)

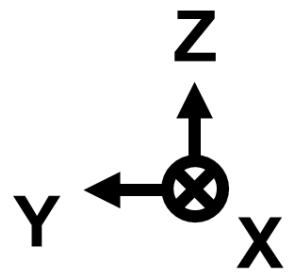
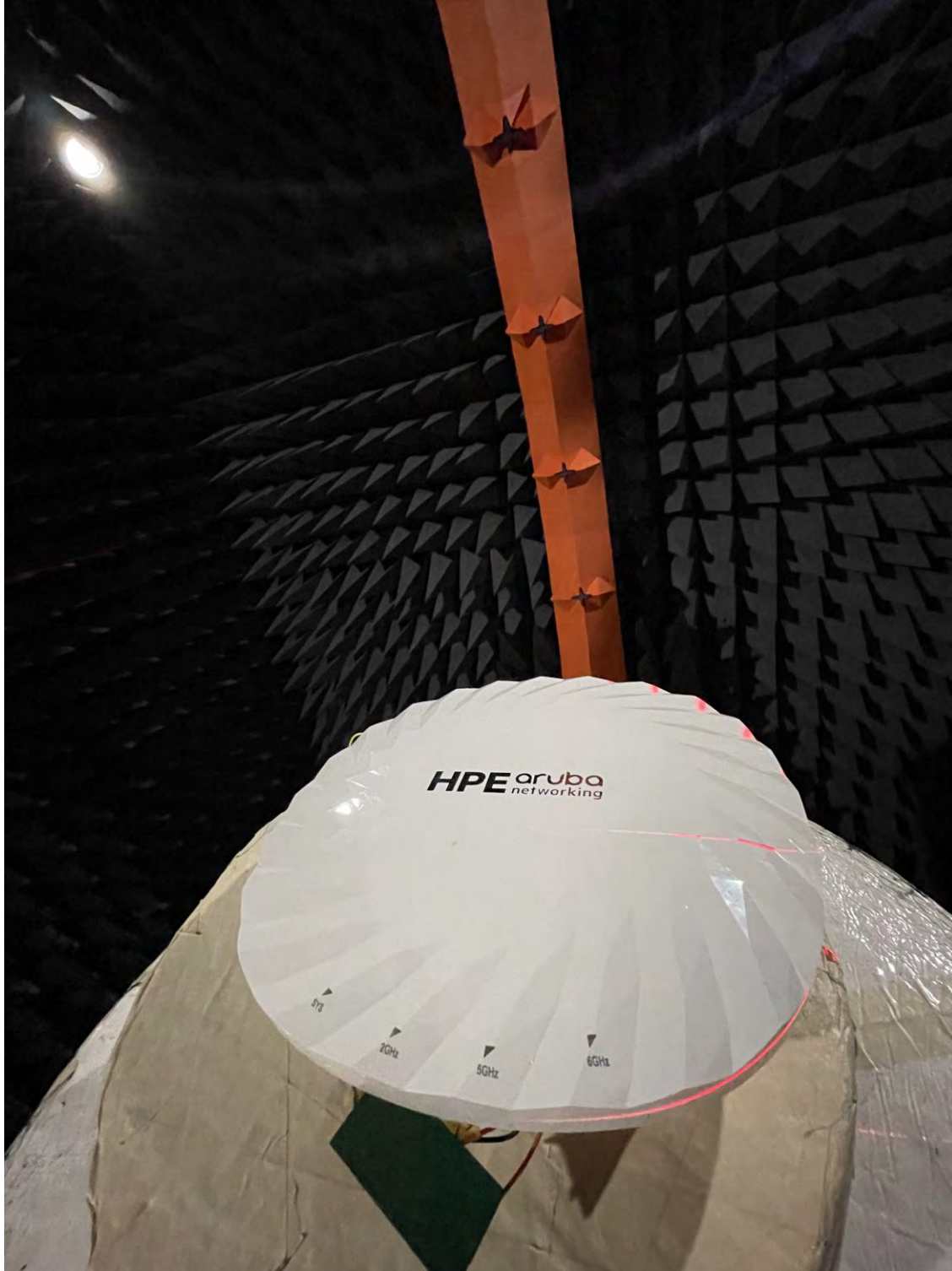
Frequency (MHz)	2452
Ant.7 Gain (dBi)	3.52
Ant.14 Gain (dBi)	4.78
Phi (°)	150
Theta (°)	50
Corr. Ant. Gain (dBi) [10^(G ₁ /20)+10^(G ₂ /20)] ² /N _{ANT.}	5.22
Uncor. Ant. Gain (dBi) [10^(G ₁ /10)+10^(G ₂ /10)]/N _{ANT.}	2.63
Corr. Gain (dBi) 10*log(Corr. Ant. Gain)	7.2
Uncor. Gain (dBi) 10*log(Uncor. Ant. Gain)	4.2

(Ant. Position : BLE Ant.7~8)

Frequency (MHz)	2484
Ant.7 Gain (dBi)	4.13
Ant.8 Gain (dBi)	0.50
Phi (°)	165
Theta (°)	55
Corr. Ant. Gain (dBi) [10^(G ₁ /20)+10^(G ₂ /20)] ² /N _{ANT.}	3.56
Uncor. Ant. Gain (dBi) [10^(G ₁ /10)+10^(G ₂ /10)]/N _{ANT.}	1.85
Corr. Gain (dBi) 10*log(Corr. Ant. Gain)	5.5
Uncor. Gain (dBi) 10*log(Uncor. Ant. Gain)	2.7

Note : Antenna gain is the correlated / uncorrelated gain position in the appendix gain table.

9. Test Setup

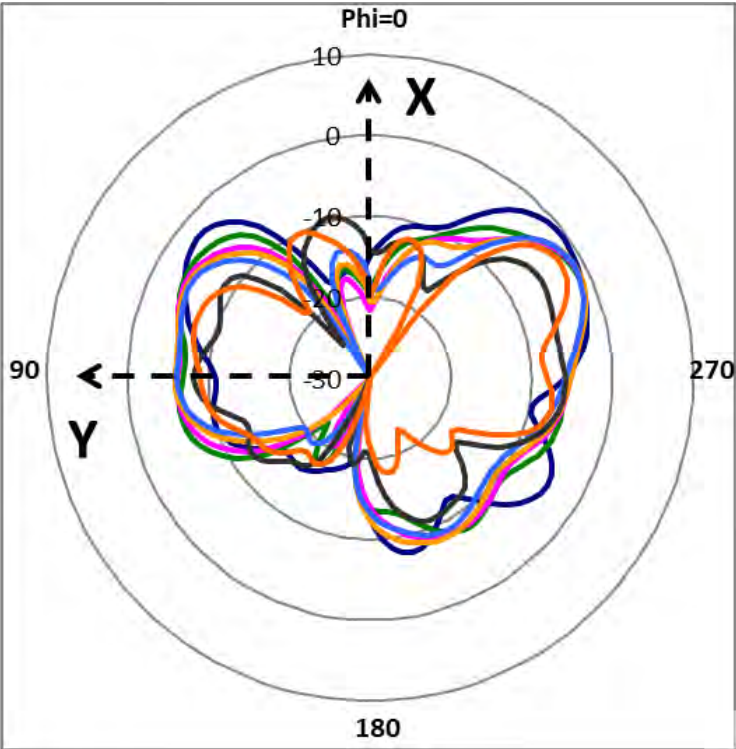


Note :
Top cover toward +Z direction

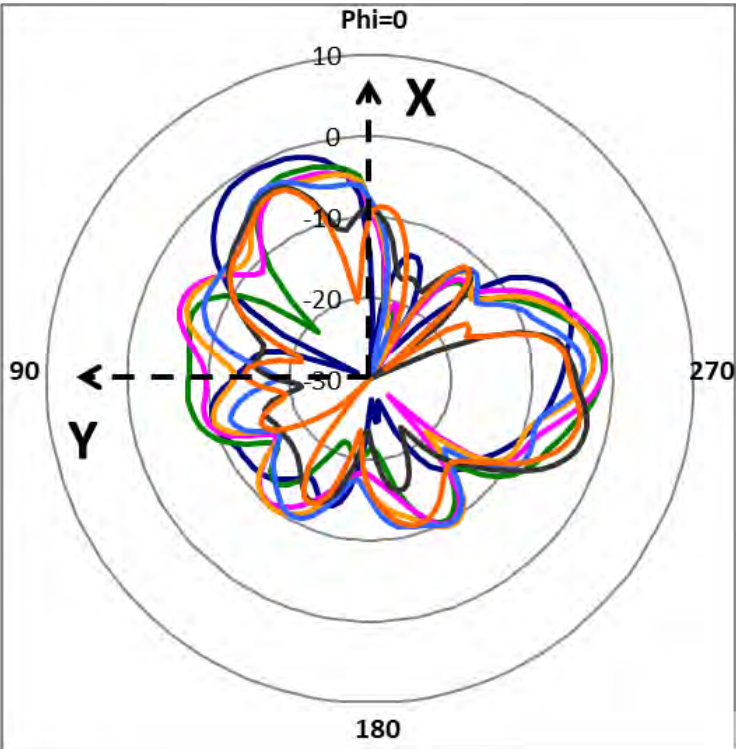
10. Radiation Pattern

Ant. Position : 5G/6G Ant.1~4

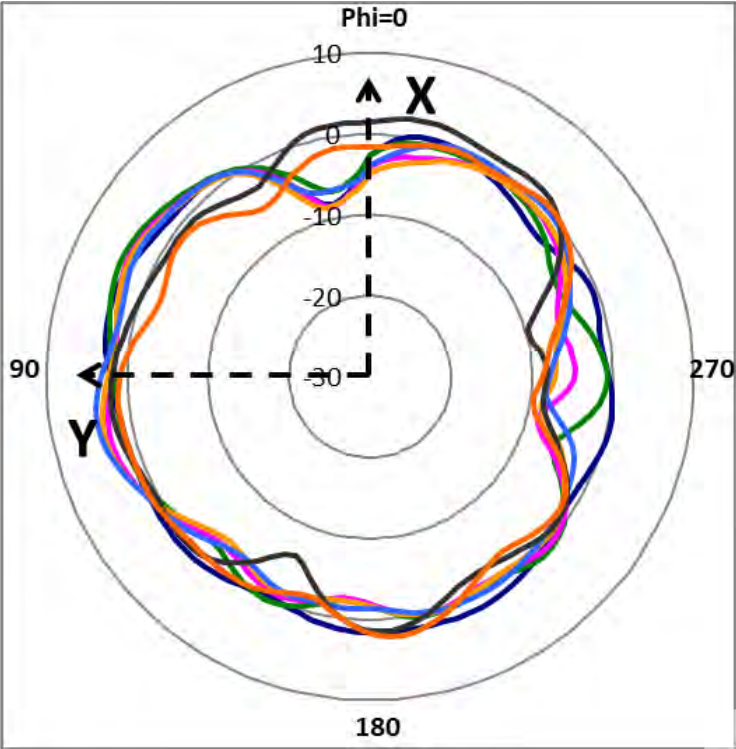
XY_Pol._Phi_Ant.1



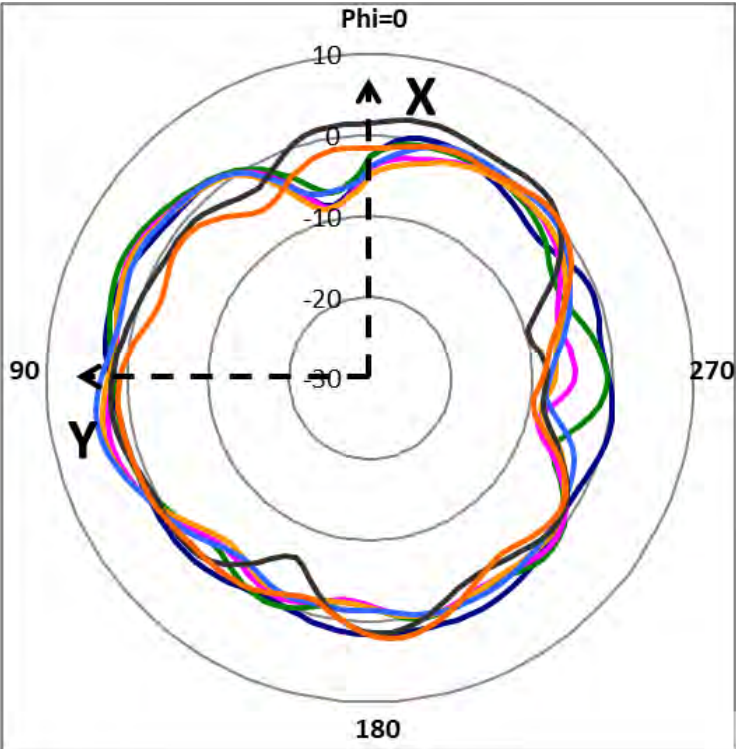
XY_Pol._Phi_Ant.2



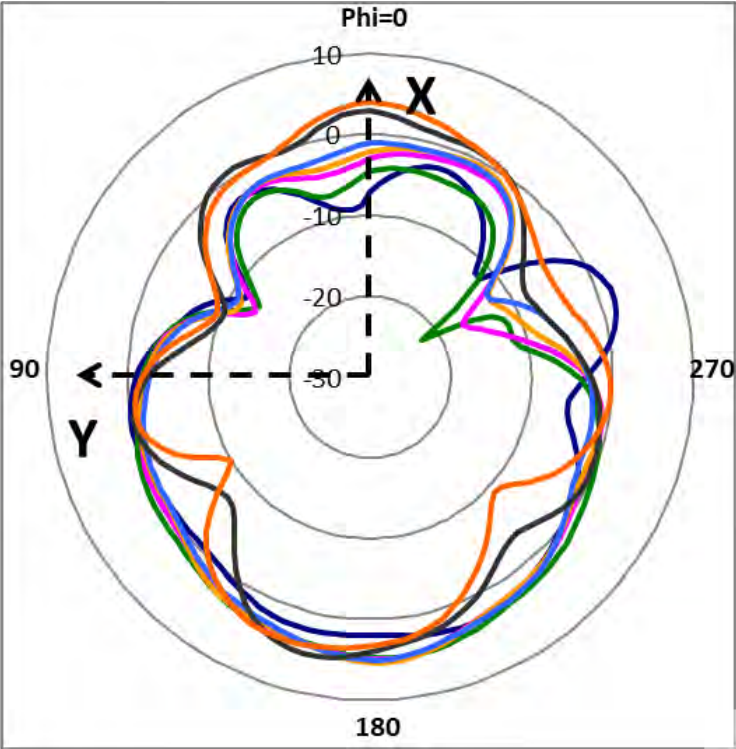
XY_Pol._Phi_Ant.3



XY_Pol._Phi_Ant.4

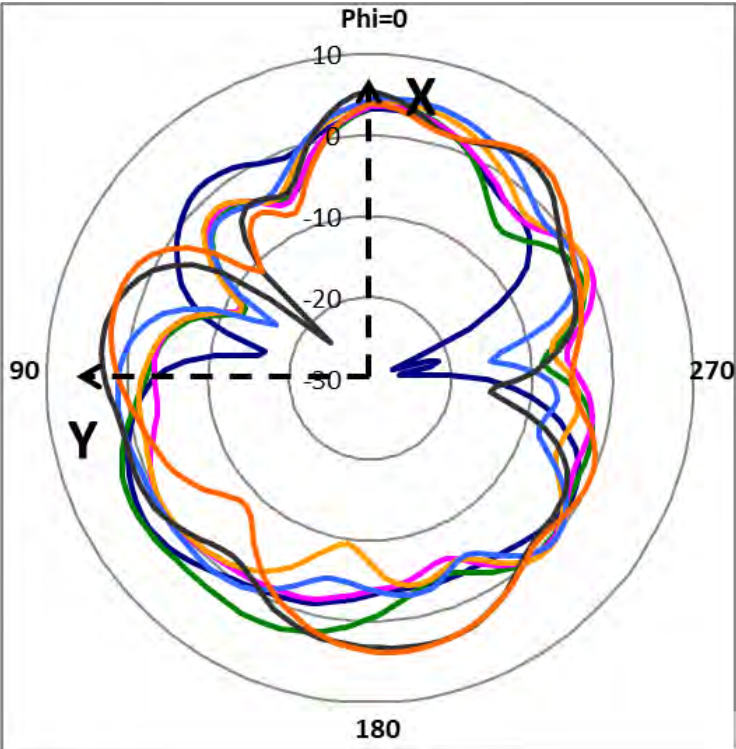


XY_Pol._Theta_Ant.1



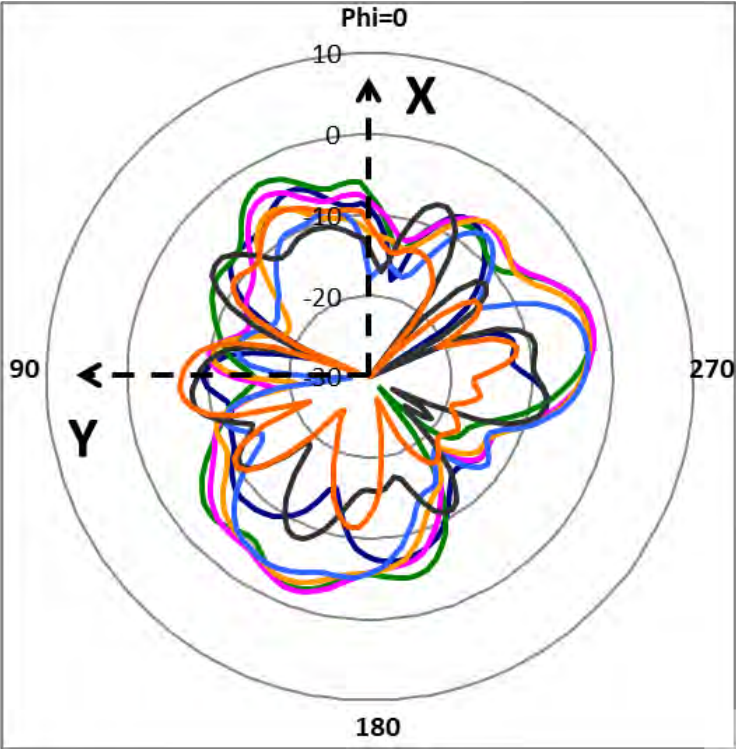
- 5150MHz_Gain_3.01
- 5550MHz_Gain_4.96
- 5850MHz_Gain_5.02
- 5895MHz_Gain_5.39
- 5925MHz_Gain_5.05
- 6555MHz_Gain_4.73
- 7125MHz_Gain_3.74

XY_Pol._Theta_Ant.2

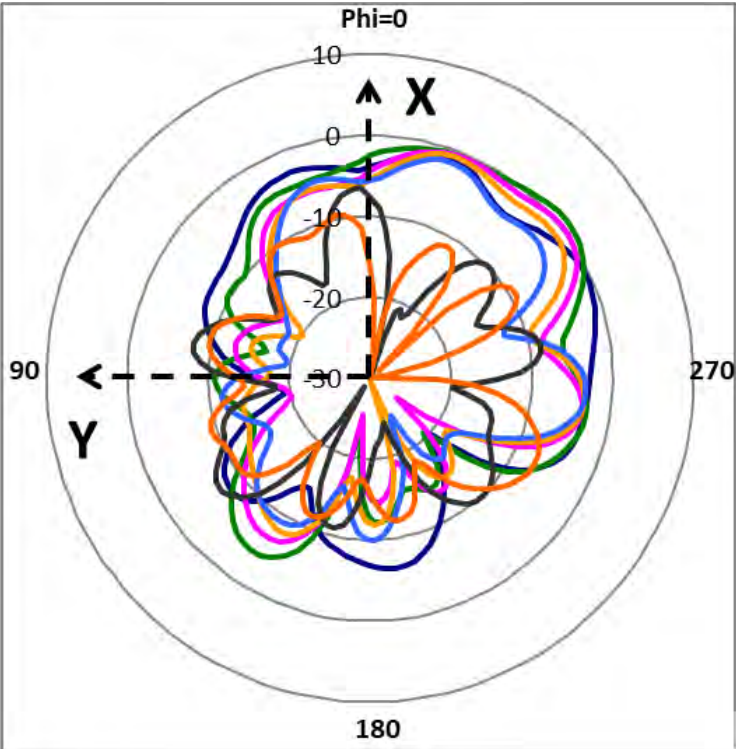


- 5150MHz_Gain_3.26
- 5550MHz_Gain_3.70
- 5850MHz_Gain_3.63
- 5895MHz_Gain_4.29
- 5925MHz_Gain_4.73
- 6555MHz_Gain_5.40
- 7125MHz_Gain_3.97

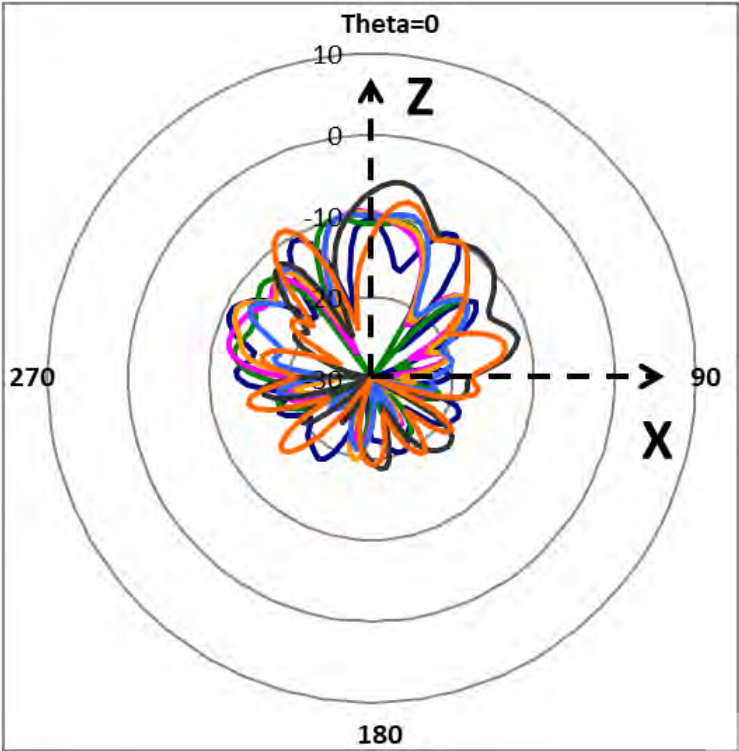
XY_Pol._Theta_Ant.3



XY_Pol._Theta_Ant.4

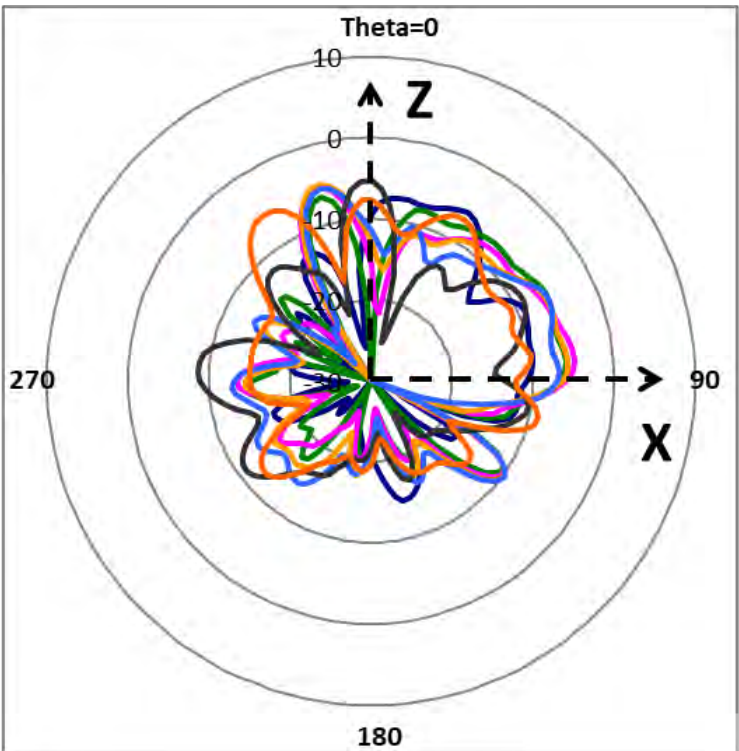


XZ_Pol._Phi_Ant.1



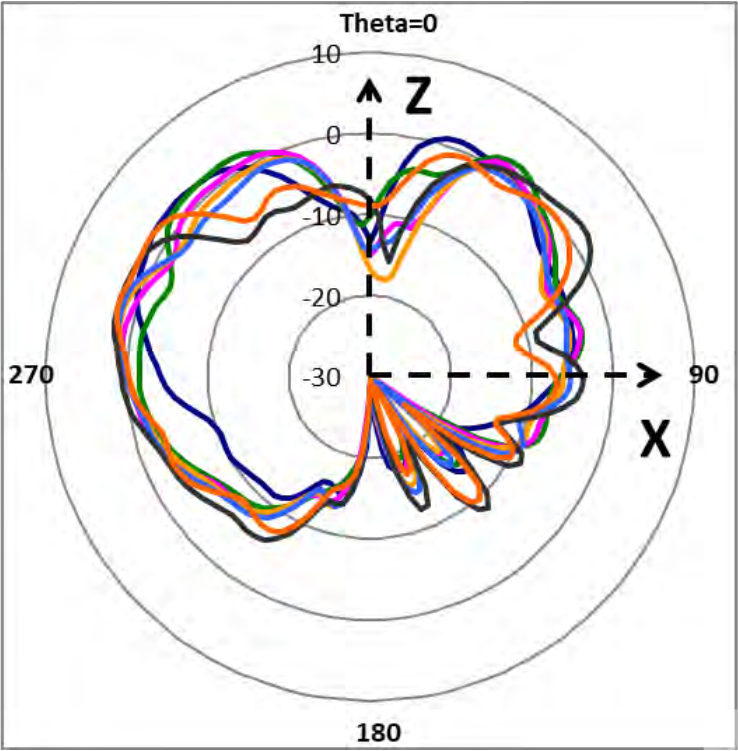
- 5150MHz_Gain_-9.49
- 5550MHz_Gain_-9.85
- 5850MHz_Gain_-9.27
- 5895MHz_Gain_-9.51
- 5925MHz_Gain_-9.35
- 6555MHz_Gain_-5.60
- 7125MHz_Gain_-7.87

XZ_Pol._Phi_Ant.2



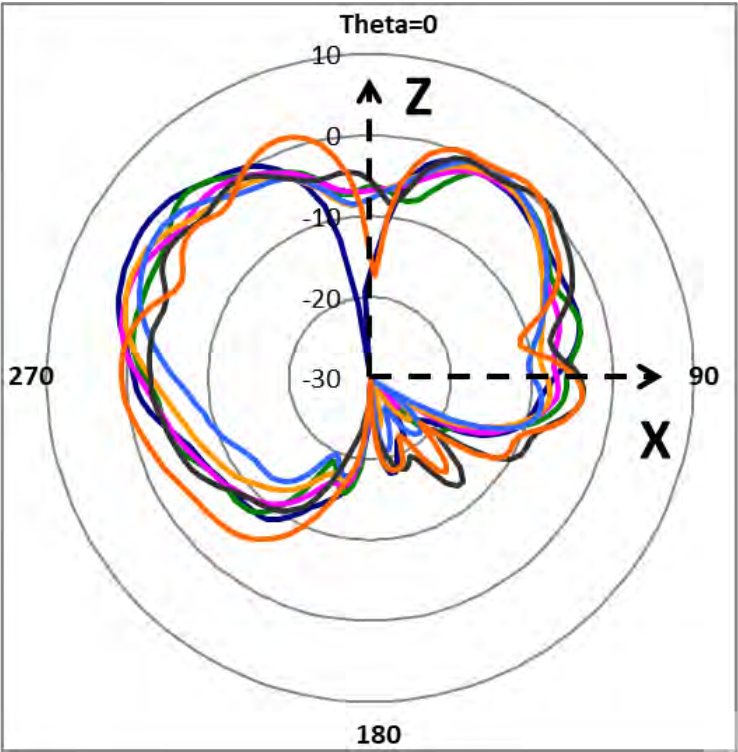
- 5150MHz_Gain_-6.12
- 5550MHz_Gain_-5.86
- 5850MHz_Gain_-4.74
- 5895MHz_Gain_-4.96
- 5925MHz_Gain_-5.46
- 6555MHz_Gain_-5.30
- 7125MHz_Gain_-5.59

XZ_Pol._Phi_Ant.3



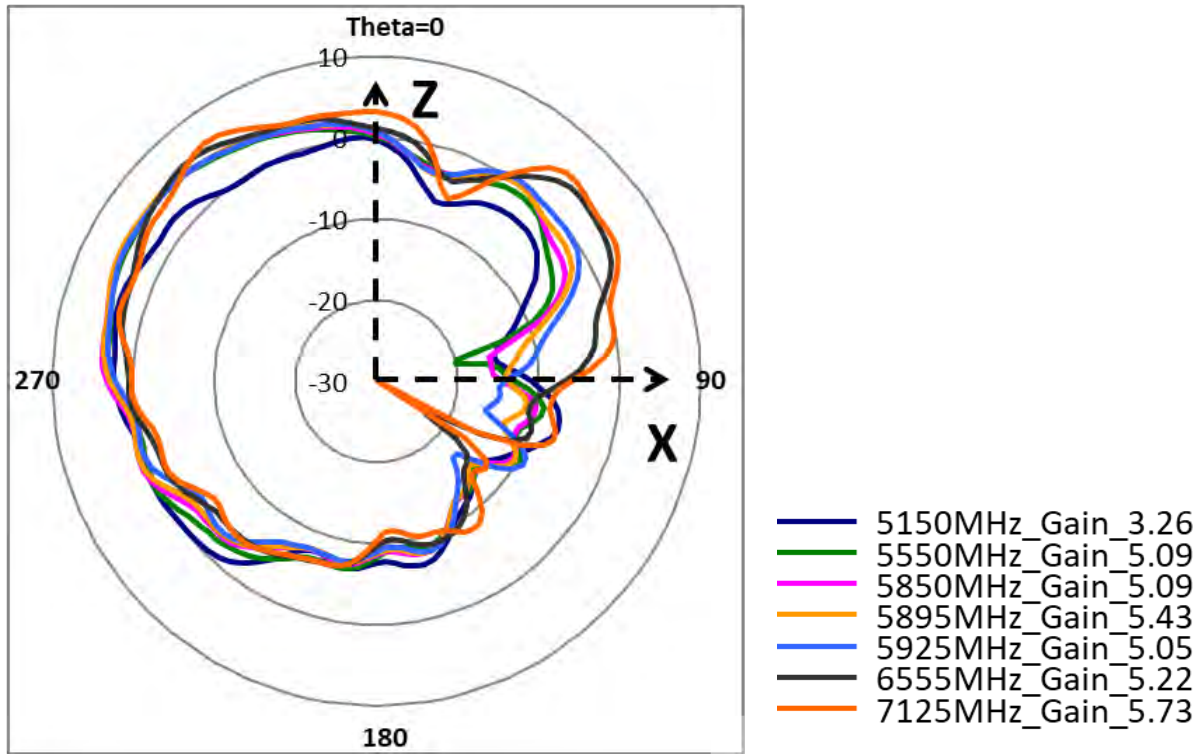
- 5150MHz_Gain_2.22
- 5550MHz_Gain_1.93
- 5850MHz_Gain_1.08
- 5895MHz_Gain_1.53
- 5925MHz_Gain_1.81
- 6555MHz_Gain_2.25
- 7125MHz_Gain_2.21

XZ_Pol._Phi_Ant.4

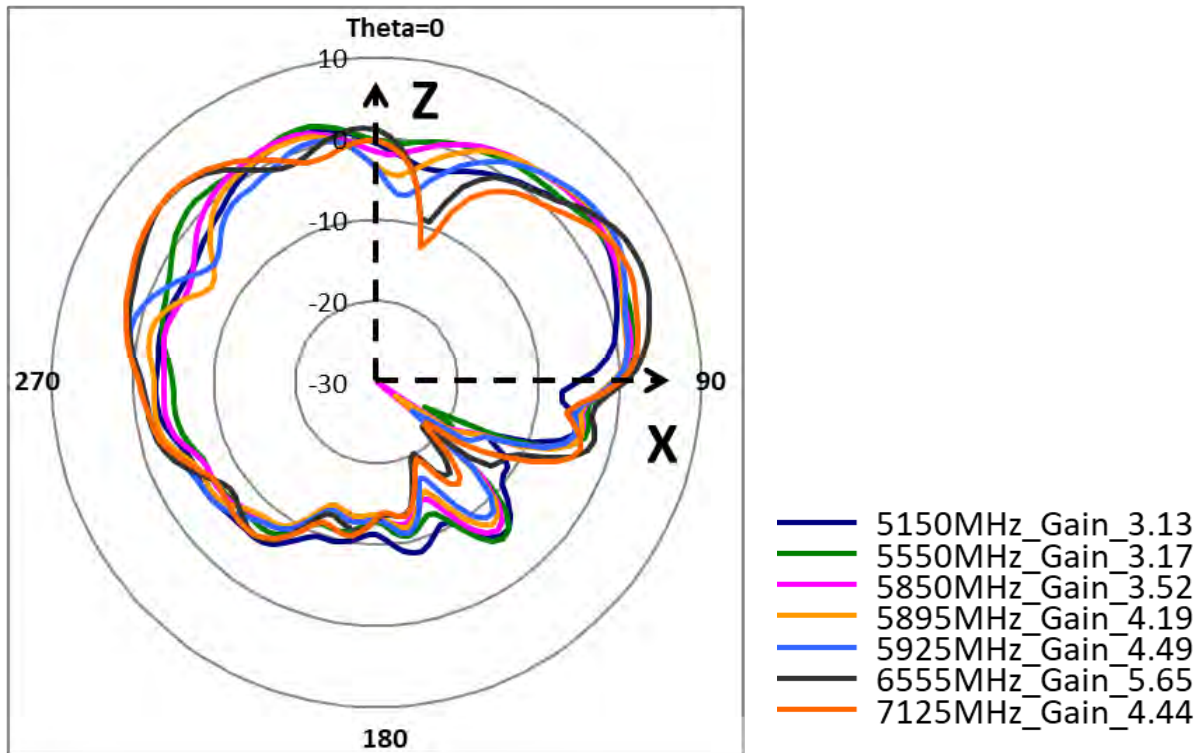


- 5150MHz_Gain_3.55
- 5550MHz_Gain_2.19
- 5850MHz_Gain_1.78
- 5895MHz_Gain_2.07
- 5925MHz_Gain_1.74
- 6555MHz_Gain_0.77
- 7125MHz_Gain_1.46

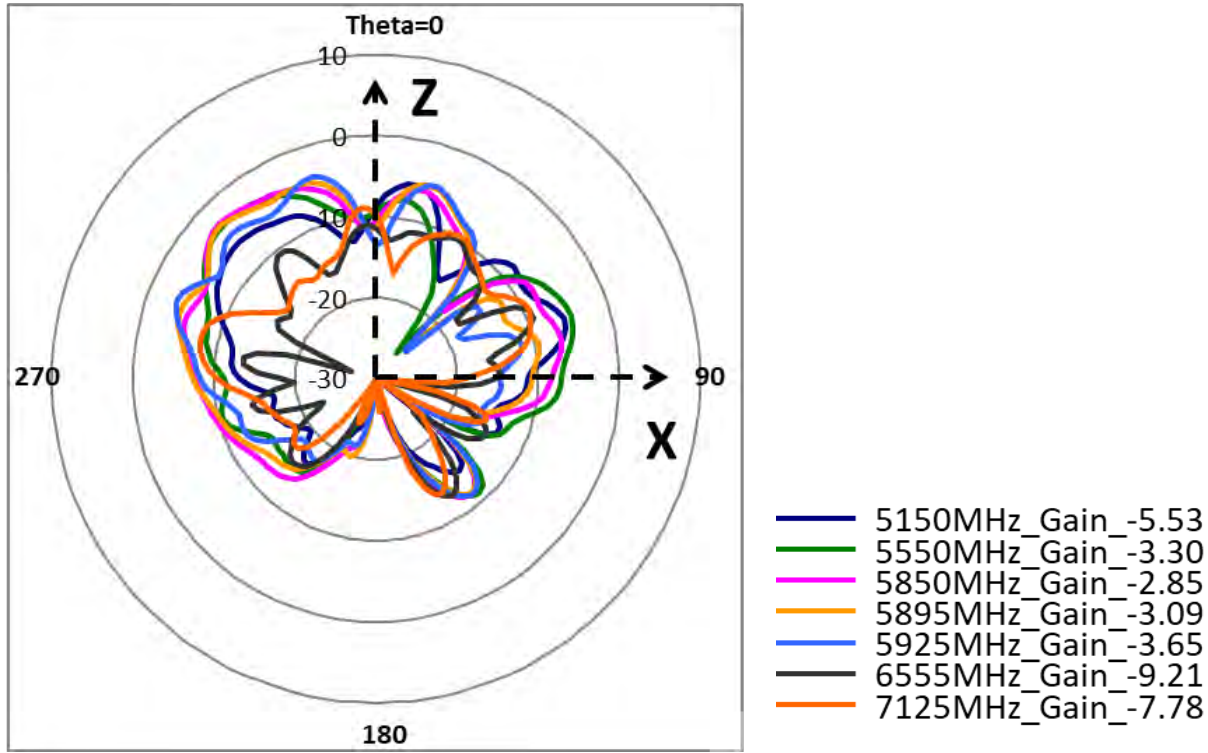
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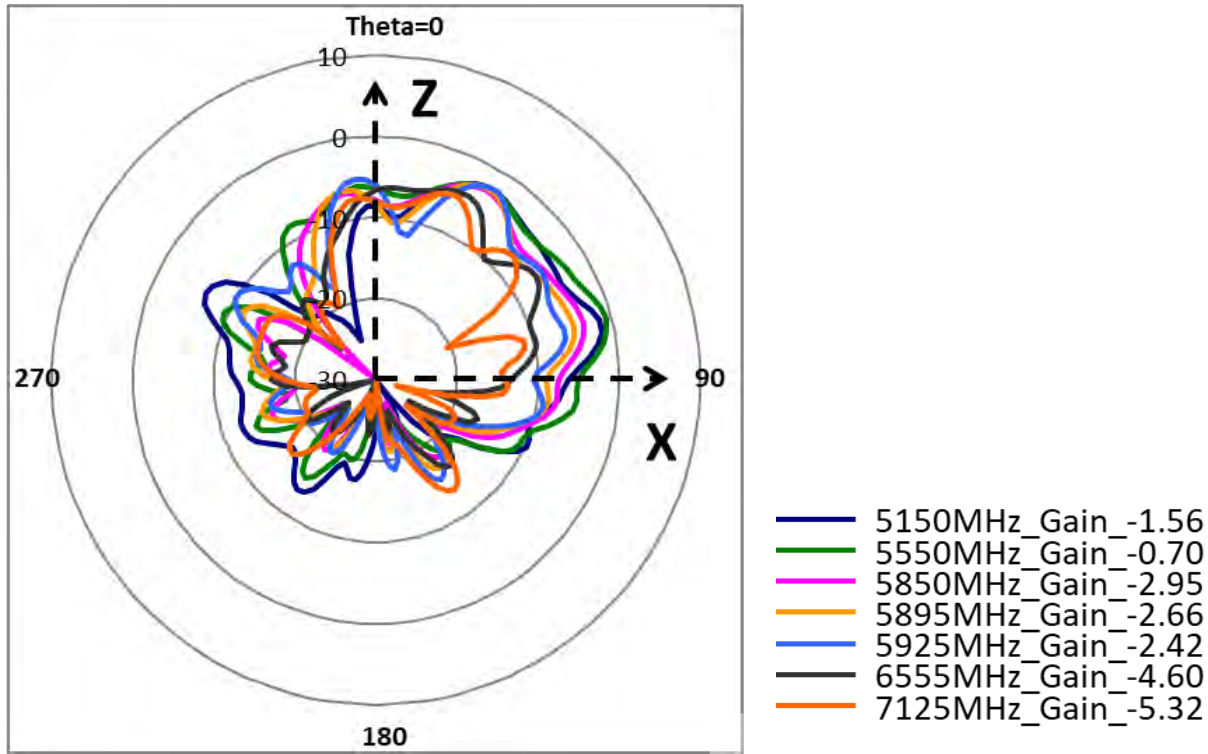
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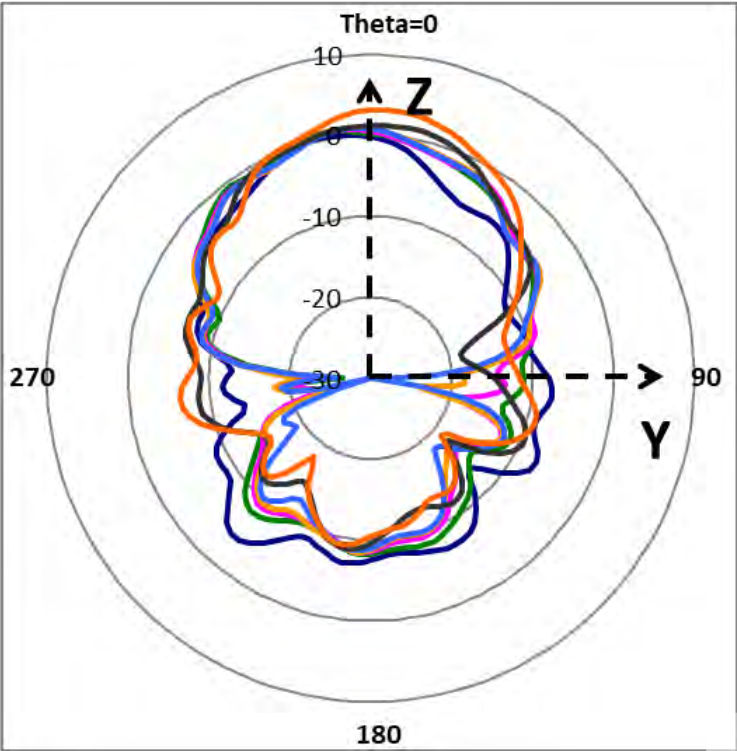
XZ_Pol._Theta_Ant.3



XZ_Pol._Theta_Ant.4

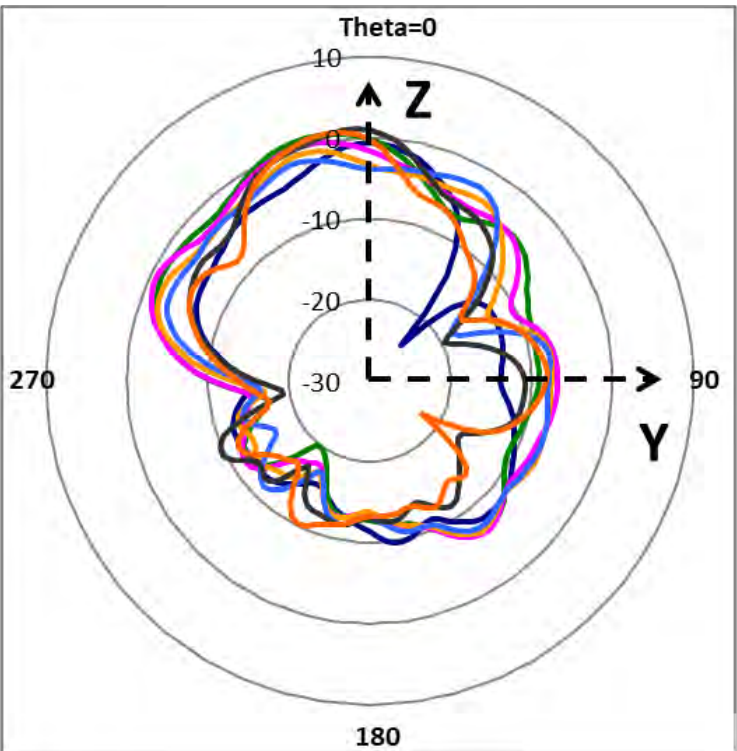


YZ_Pol._Phi_Ant.1



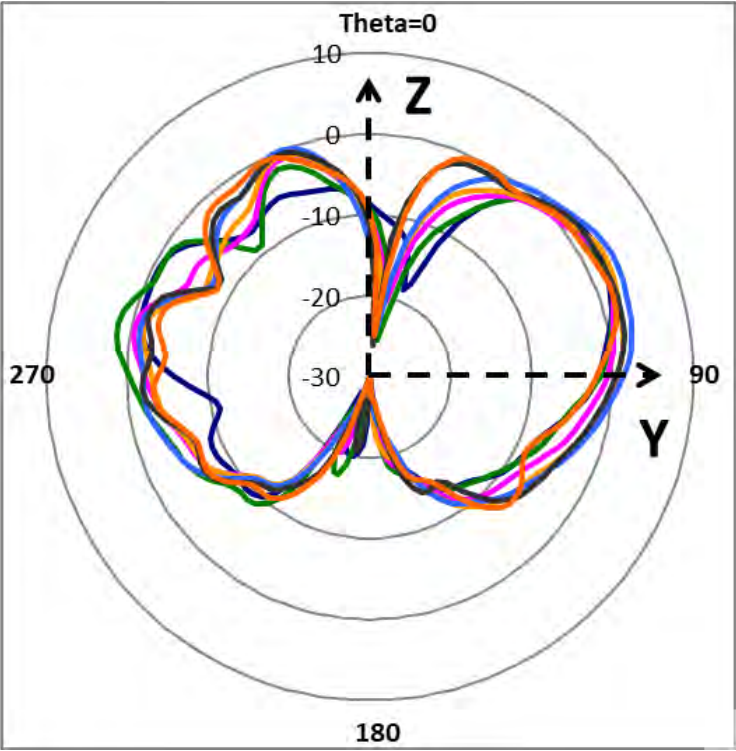
- 5150MHz_Gain_0.36
- 5550MHz_Gain_0.93
- 5850MHz_Gain_0.96
- 5895MHz_Gain_1.10
- 5925MHz_Gain_0.99
- 6555MHz_Gain_1.29
- 7125MHz_Gain_2.76

YZ_Pol._Phi_Ant.2



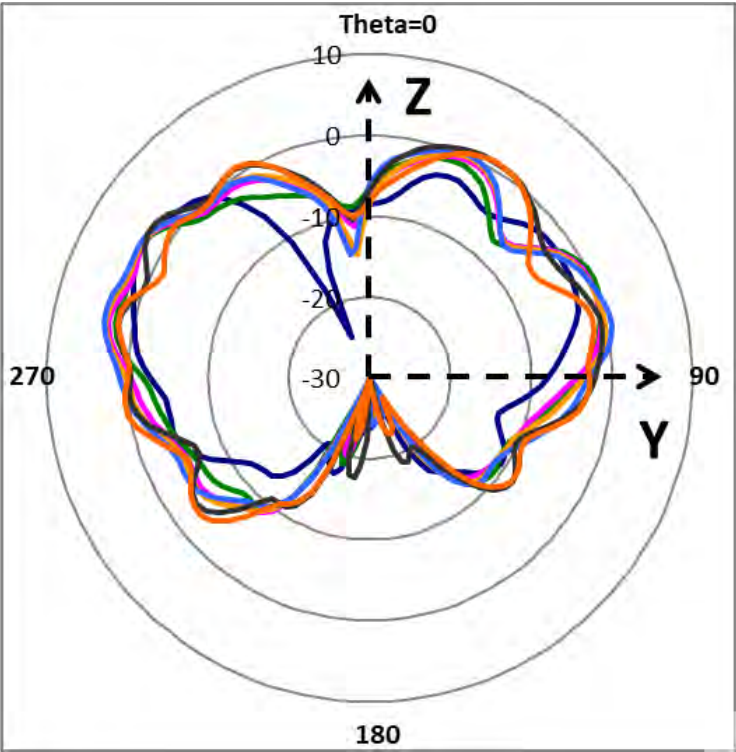
- 5150MHz_Gain_-0.57
- 5550MHz_Gain_1.02
- 5850MHz_Gain_0.26
- 5895MHz_Gain_-0.71
- 5925MHz_Gain_-1.63
- 6555MHz_Gain_1.22
- 7125MHz_Gain_1.04

YZ_Pol._Phi_Ant.3



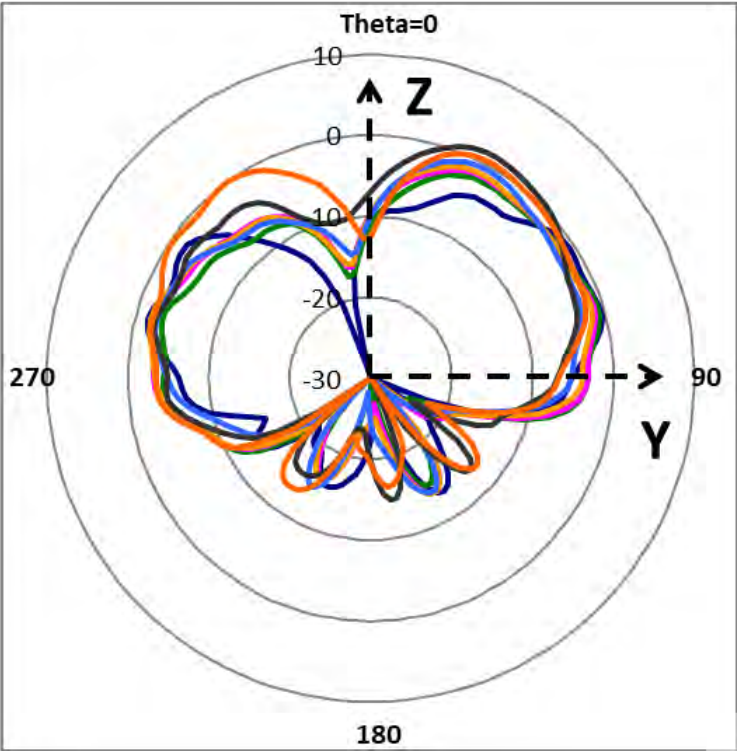
- 5150MHz_Gain_2.12
- 5550MHz_Gain_2.04
- 5850MHz_Gain_2.29
- 5895MHz_Gain_2.68
- 5925MHz_Gain_3.63
- 6555MHz_Gain_2.17
- 7125MHz_Gain_1.75

YZ_Pol._Phi_Ant.4

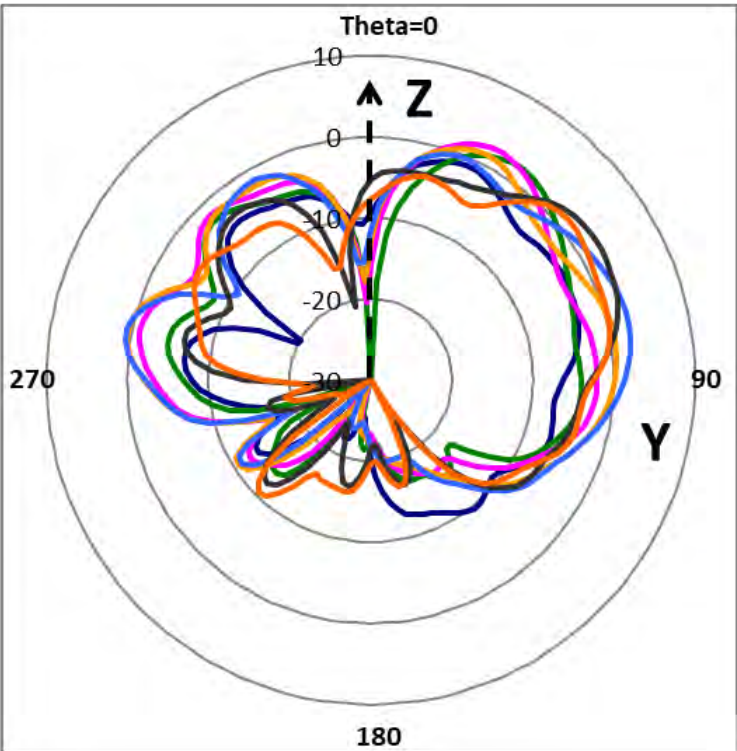


- 5150MHz_Gain_2.48
- 5550MHz_Gain_2.84
- 5850MHz_Gain_3.07
- 5895MHz_Gain_3.39
- 5925MHz_Gain_3.74
- 6555MHz_Gain_2.74
- 7125MHz_Gain_1.88

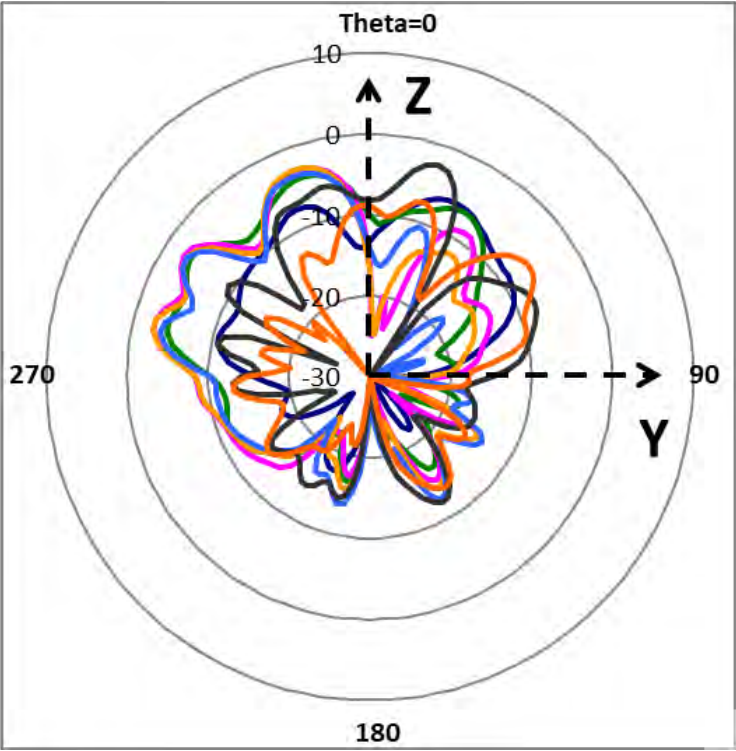
YZ_Pol._Theta_Ant.1



YZ_Pol._Theta_Ant.2

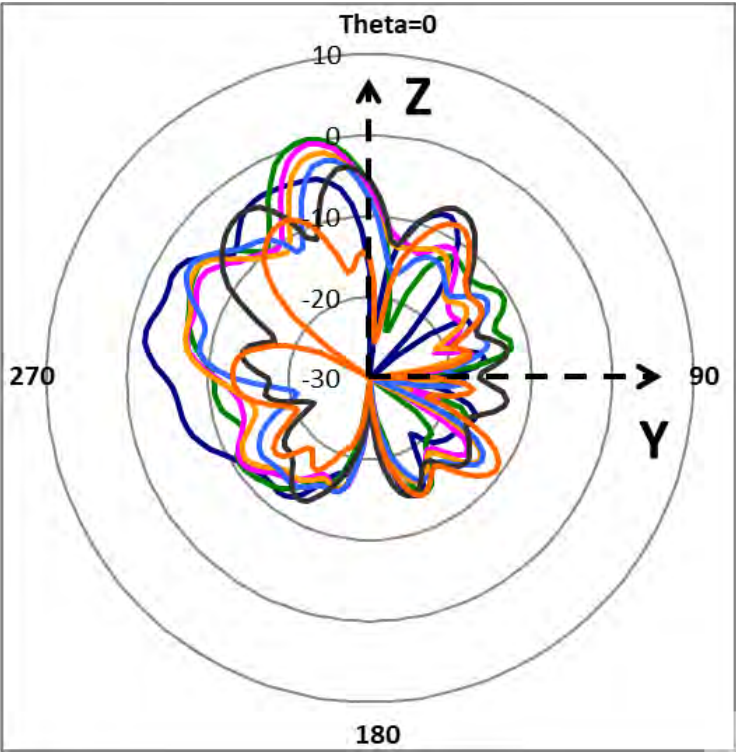


YZ_Pol._Theta_Ant.3



- 5150MHz_Gain_-6.04
- 5550MHz_Gain_-3.47
- 5850MHz_Gain_-2.58
- 5895MHz_Gain_-2.60
- 5925MHz_Gain_-3.03
- 6555MHz_Gain_-2.47
- 7125MHz_Gain_-6.04

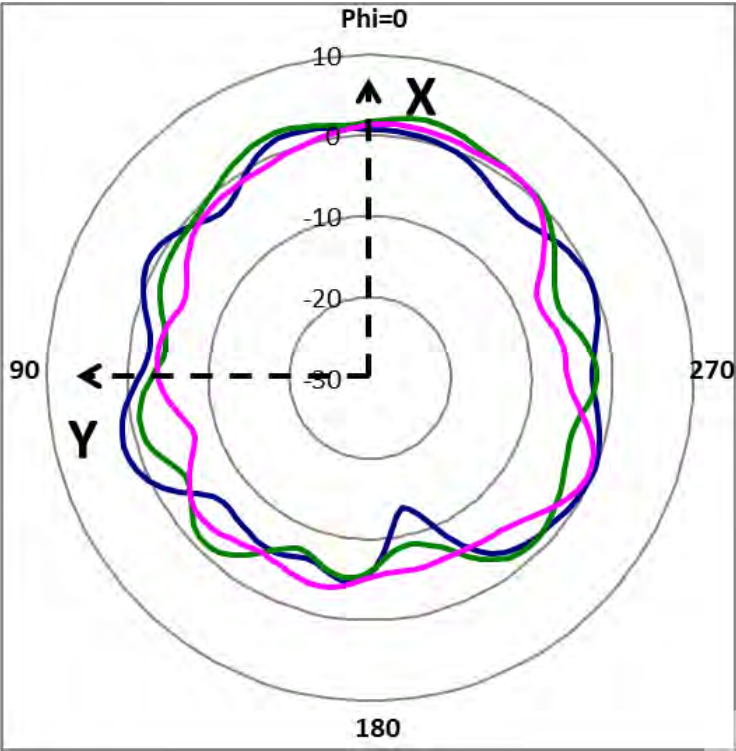
YZ_Pol._Theta_Ant.4



- 5150MHz_Gain_-1.74
- 5550MHz_Gain_0.50
- 5850MHz_Gain_-0.15
- 5895MHz_Gain_-1.45
- 5925MHz_Gain_-2.56
- 6555MHz_Gain_-3.79
- 7125MHz_Gain_-7.98

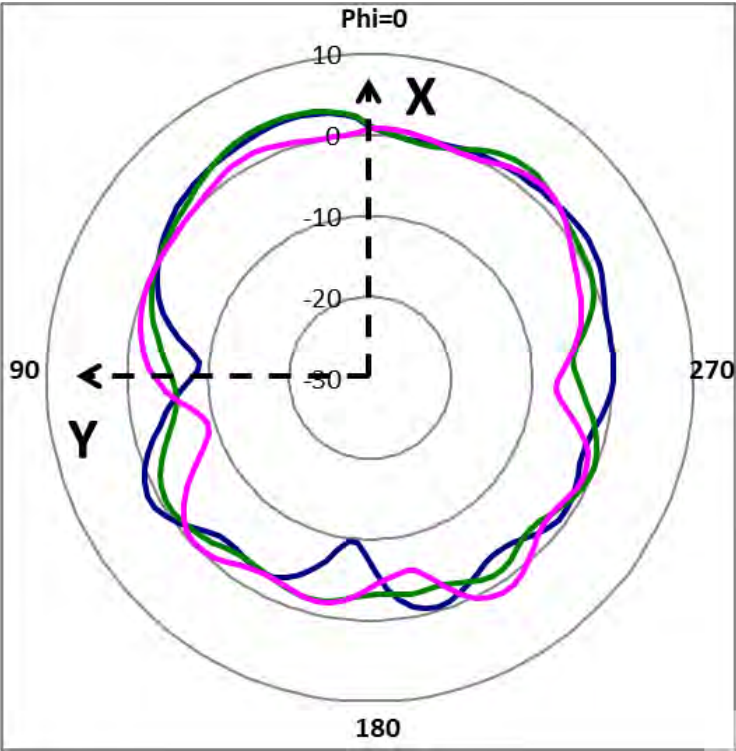
Ant. Position : 6G Ant.5~8

XY_Pol._Phi_Ant.5



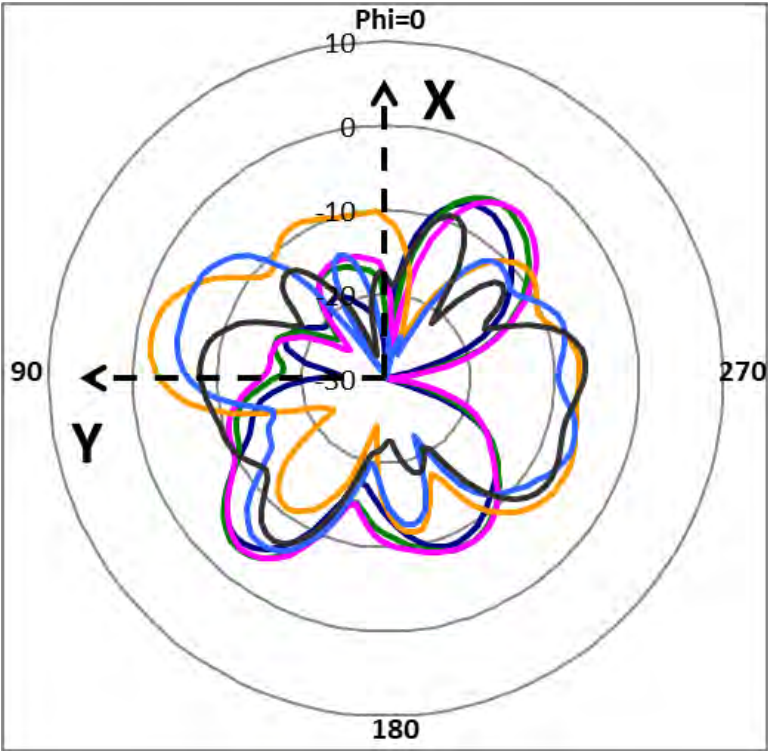
- 5925MHz_Gain_1.83
- 6555MHz_Gain_2.62
- 7125MHz_Gain_1.51

XY_Pol._Phi_Ant.6

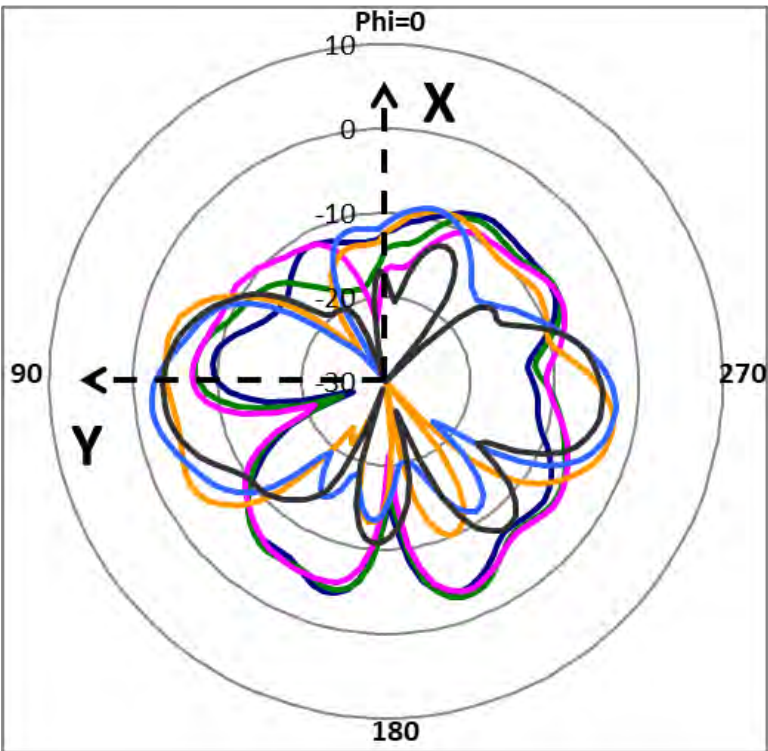


- 5925MHz_Gain_3.46
- 6555MHz_Gain_3.84
- 7125MHz_Gain_1.97

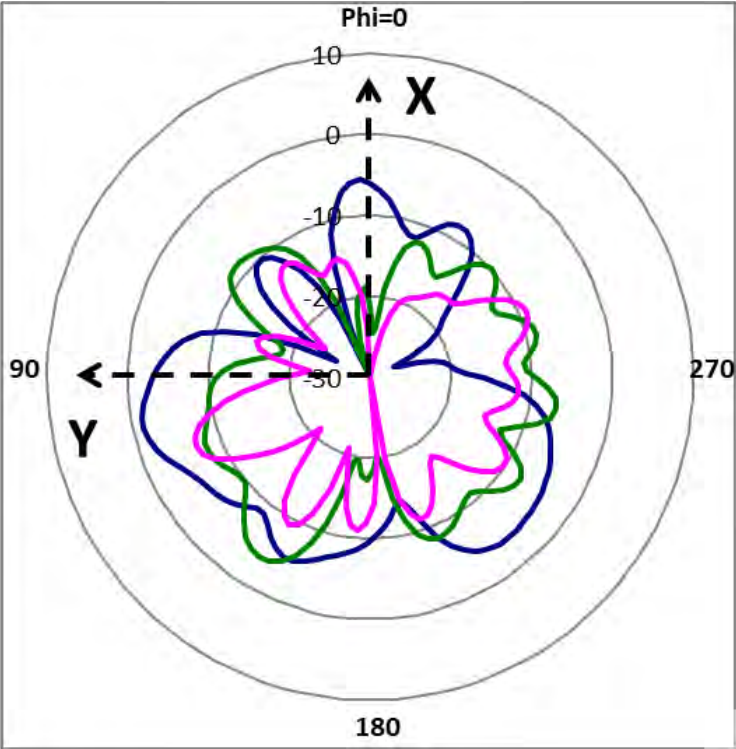
XY_Pol._Phi_Ant.7



XY_Pol._Phi_Ant.8

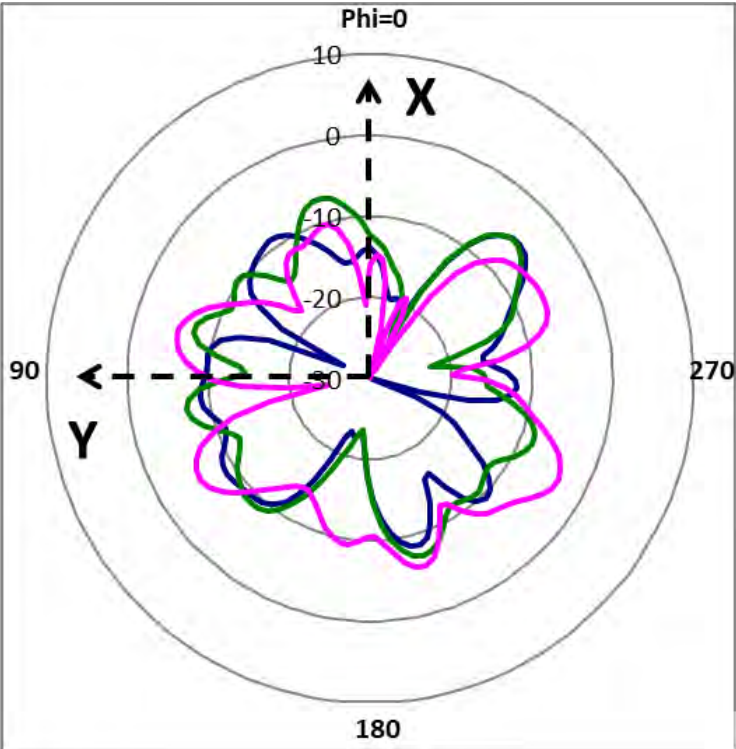


XY_Pol._Theta_Ant.5



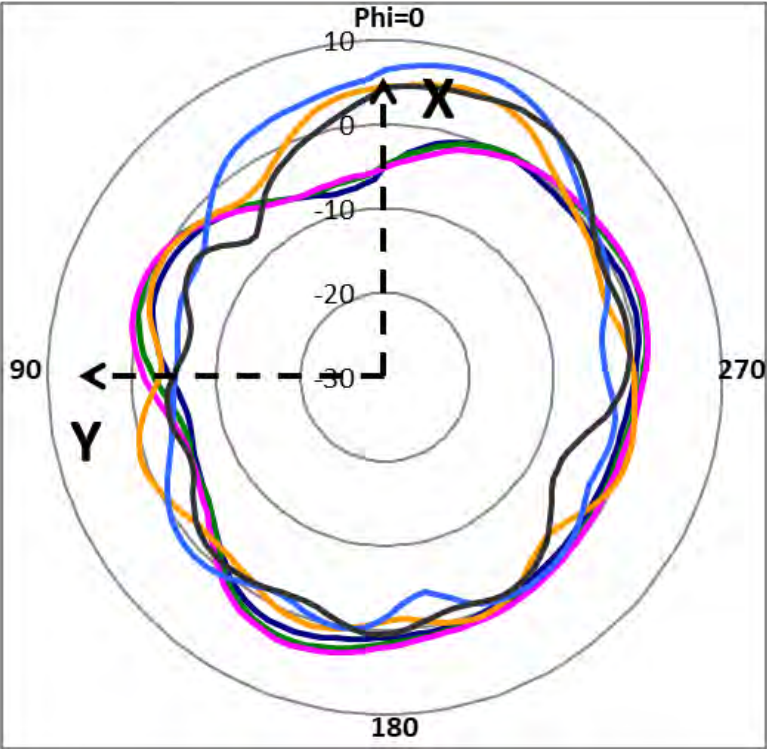
- 5925MHz_Gain_-1.24
- 6555MHz_Gain_-3.80
- 7125MHz_Gain_-6.76

XY_Pol._Theta_Ant.6



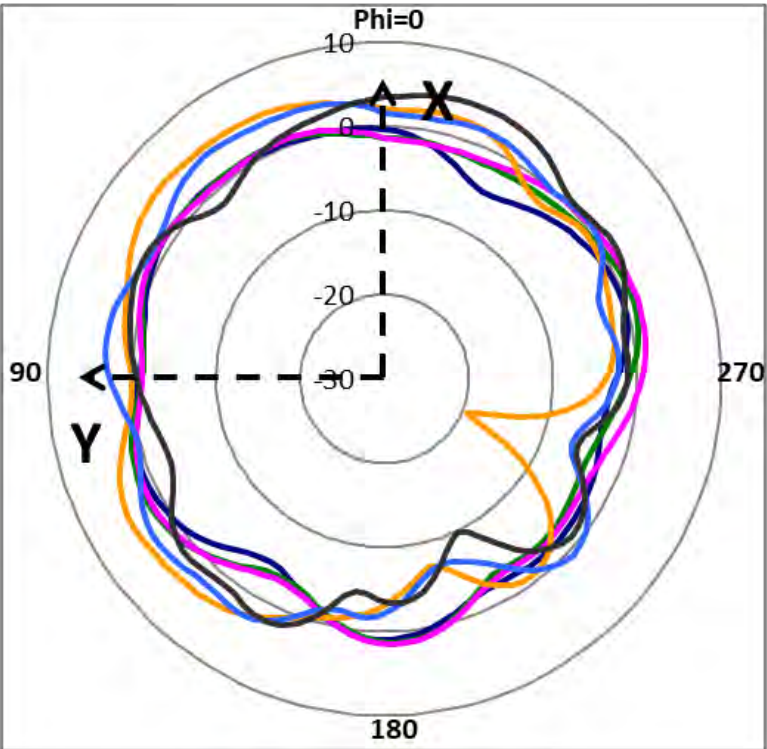
- 5925MHz_Gain_-5.18
- 6555MHz_Gain_-5.43
- 7125MHz_Gain_-3.59

XY_Pol._Theta_Ant.7



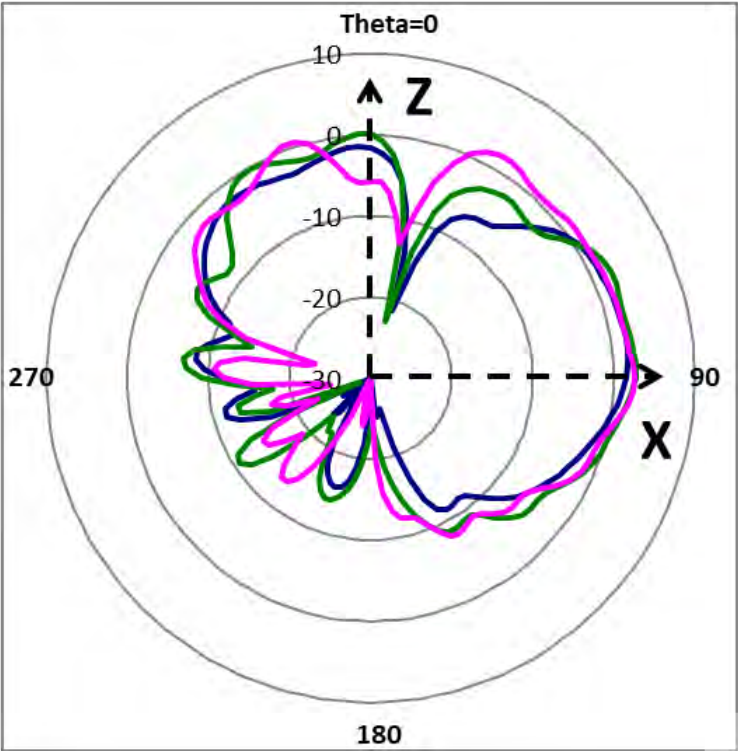
- 2401MHz_Gain_2.02
- 2452MHz_Gain_3.19
- 2484MHz_Gain_3.67
- 5925MHz_Gain_5.50
- 6555MHz_Gain_5.31
- 7125MHz_Gain_5.57

XY_Pol._Theta_Ant.8



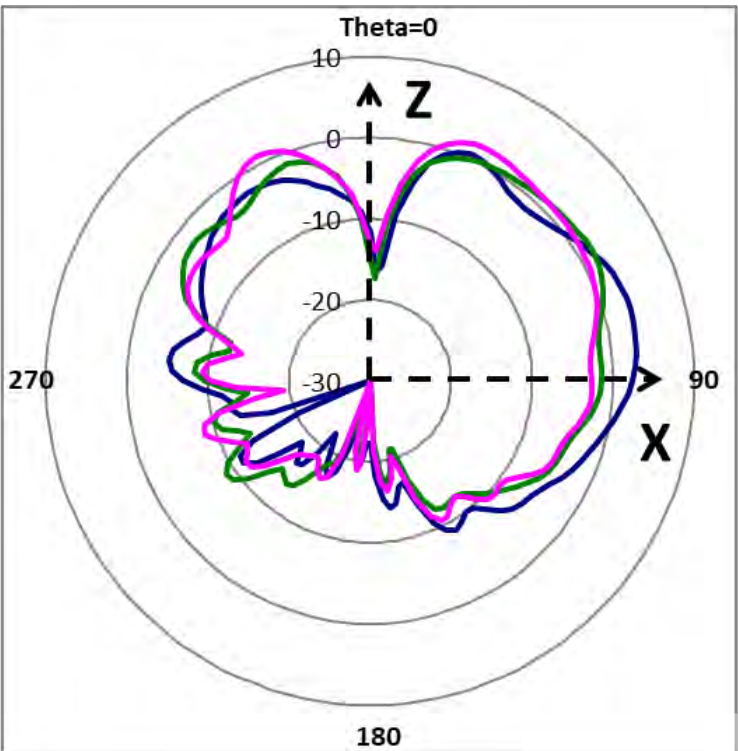
- 2401MHz_Gain_1.07
- 2452MHz_Gain_1.75
- 2484MHz_Gain_1.60
- 5925MHz_Gain_5.07
- 6555MHz_Gain_3.98
- 7125MHz_Gain_4.38

XZ_Pol._Phi_Ant.5



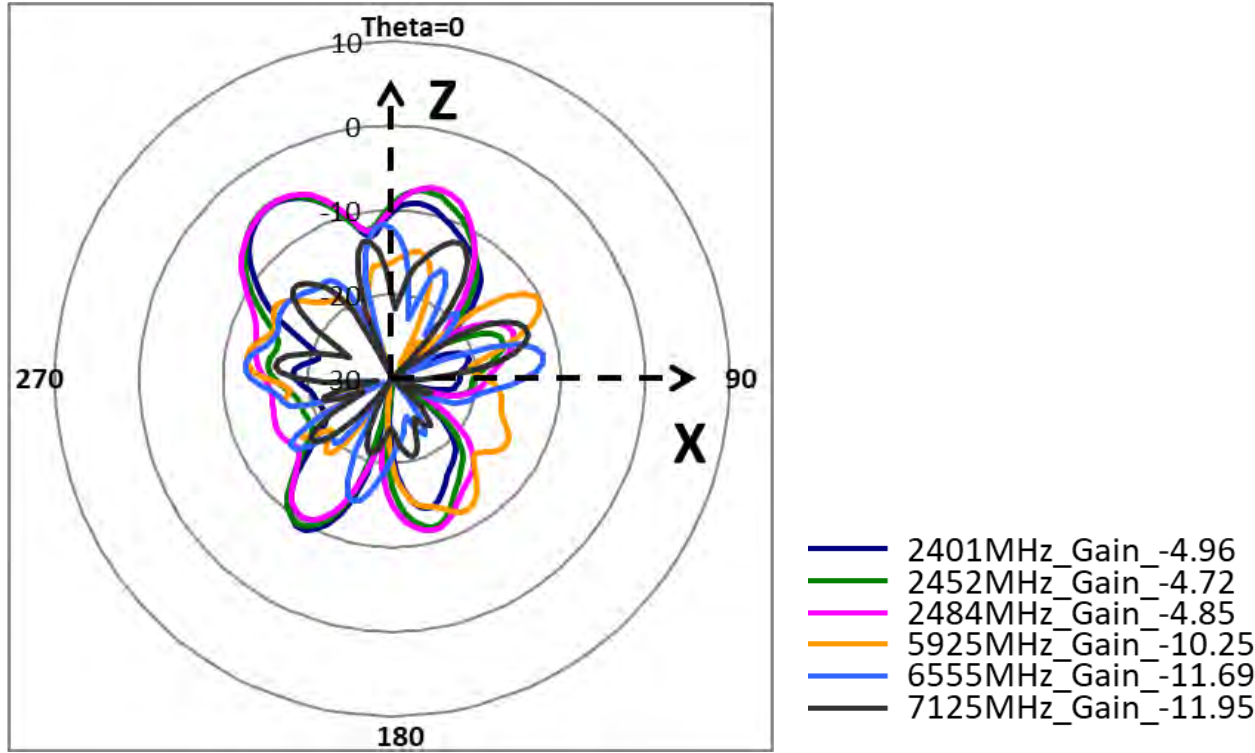
- 5925MHz_Gain_1.90
- 6555MHz_Gain_2.80
- 7125MHz_Gain_2.57

XZ_Pol._Phi_Ant.6

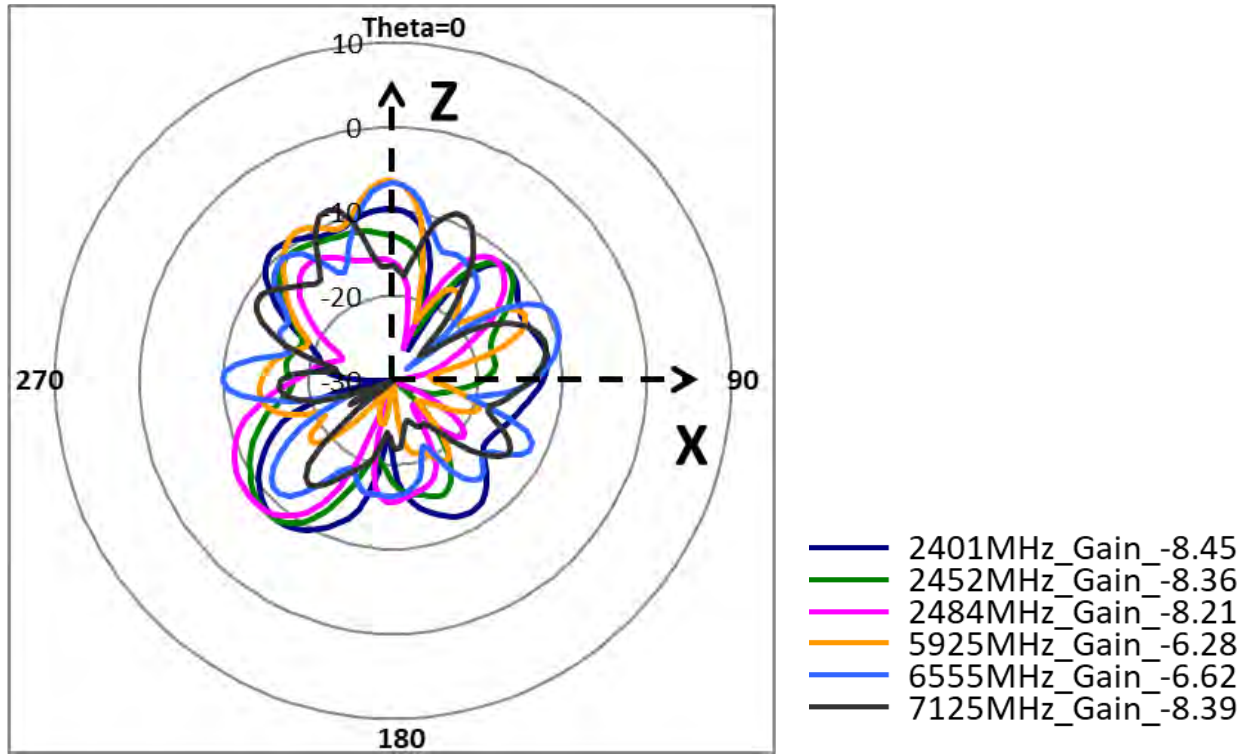


- 5925MHz_Gain_3.35
- 6555MHz_Gain_1.77
- 7125MHz_Gain_2.07

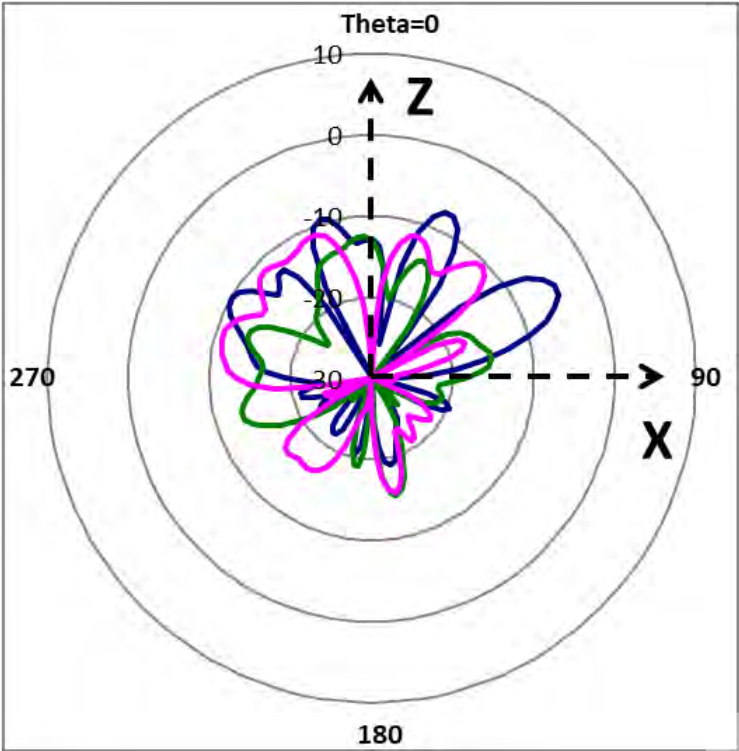
XZ_Pol._Phi_Ant.7



XZ_Pol._Phi_Ant.8

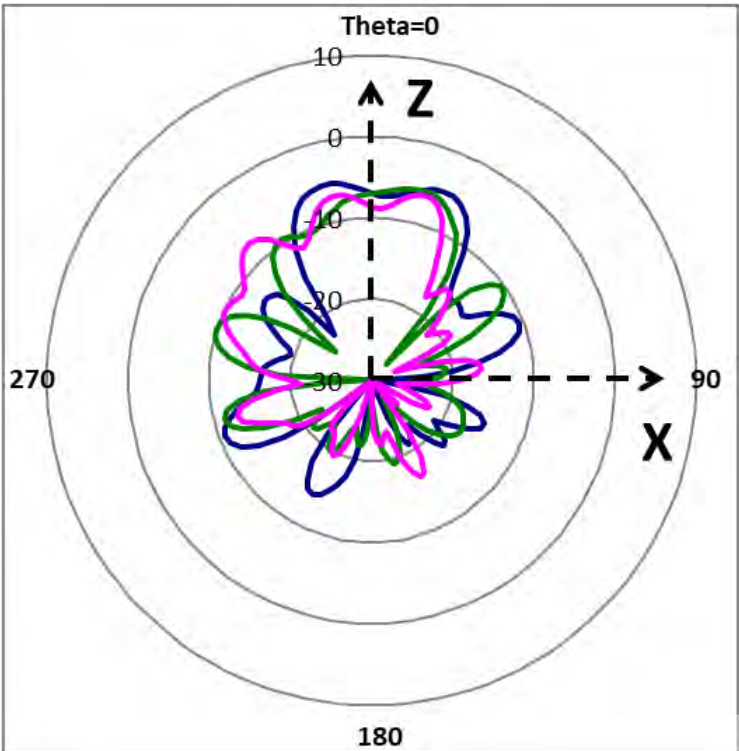


XZ_Pol._Theta_Ant.5



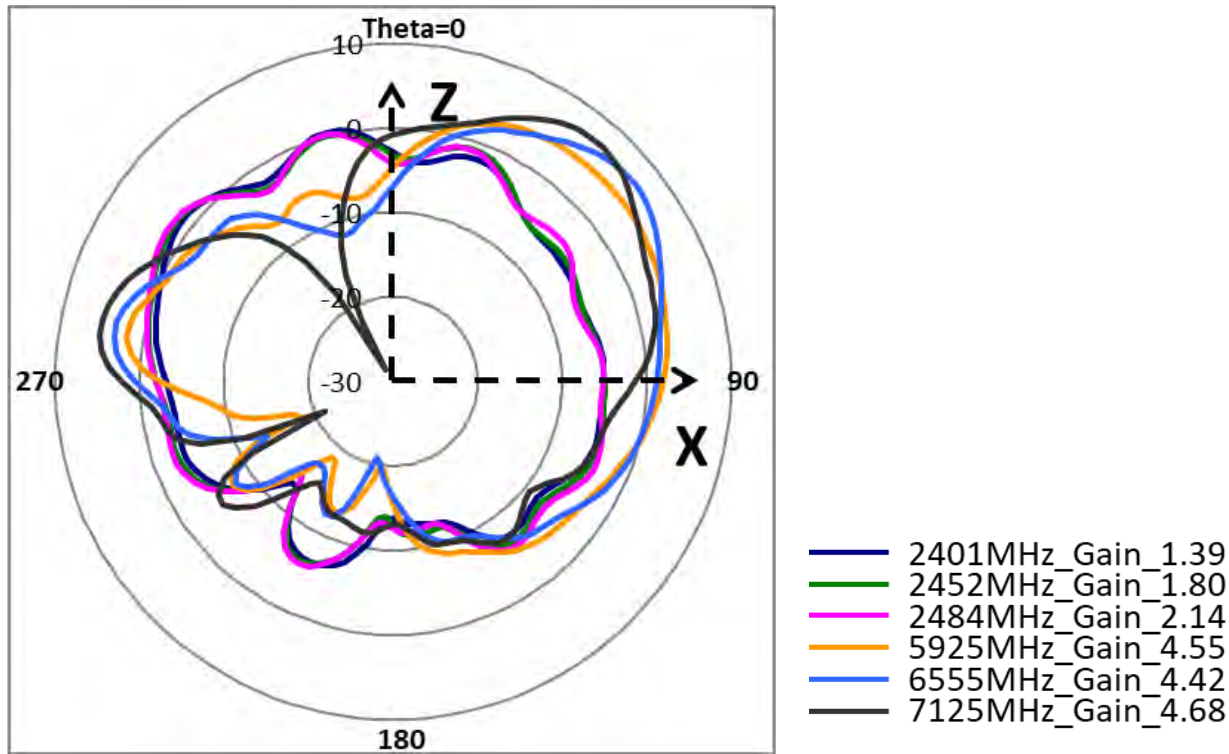
- 5925MHz_Gain_-4.23
- 6555MHz_Gain_-12.45
- 7125MHz_Gain_-10.63

XZ_Pol._Theta_Ant.6

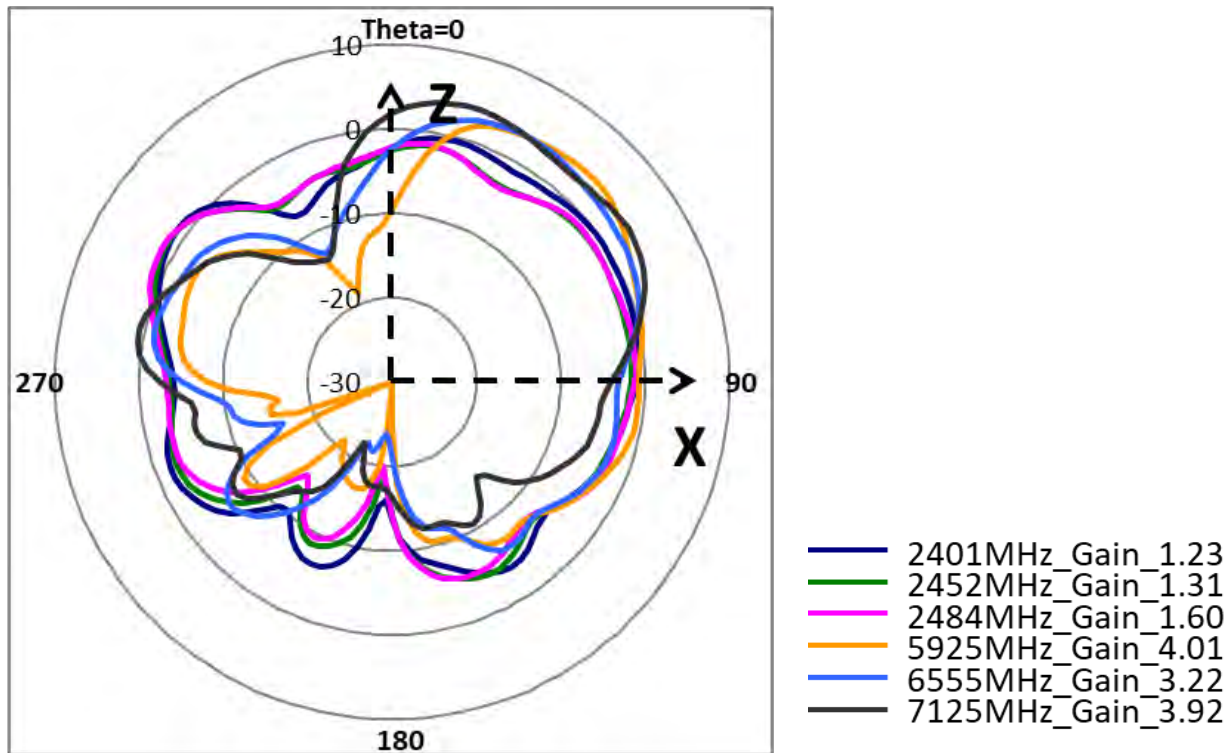


- 5925MHz_Gain_-5.12
- 6555MHz_Gain_-5.74
- 7125MHz_Gain_-6.29

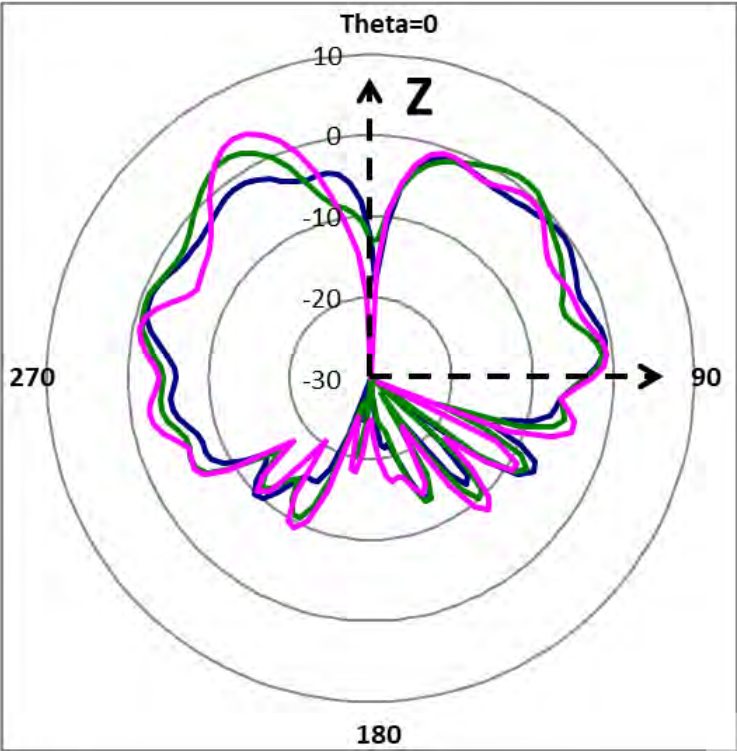
XZ_Pol._Theta_Ant.7



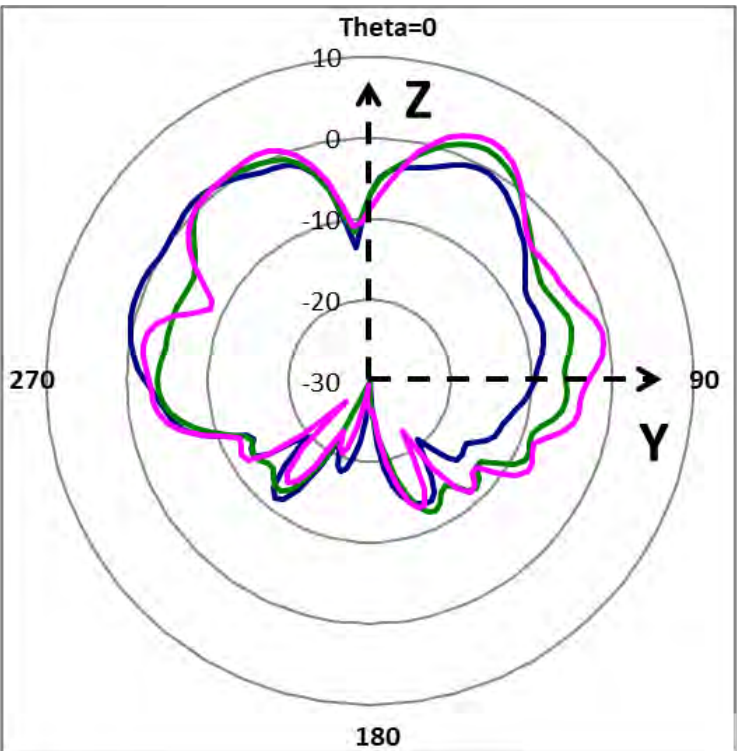
XZ_Pol._Theta_Ant.8



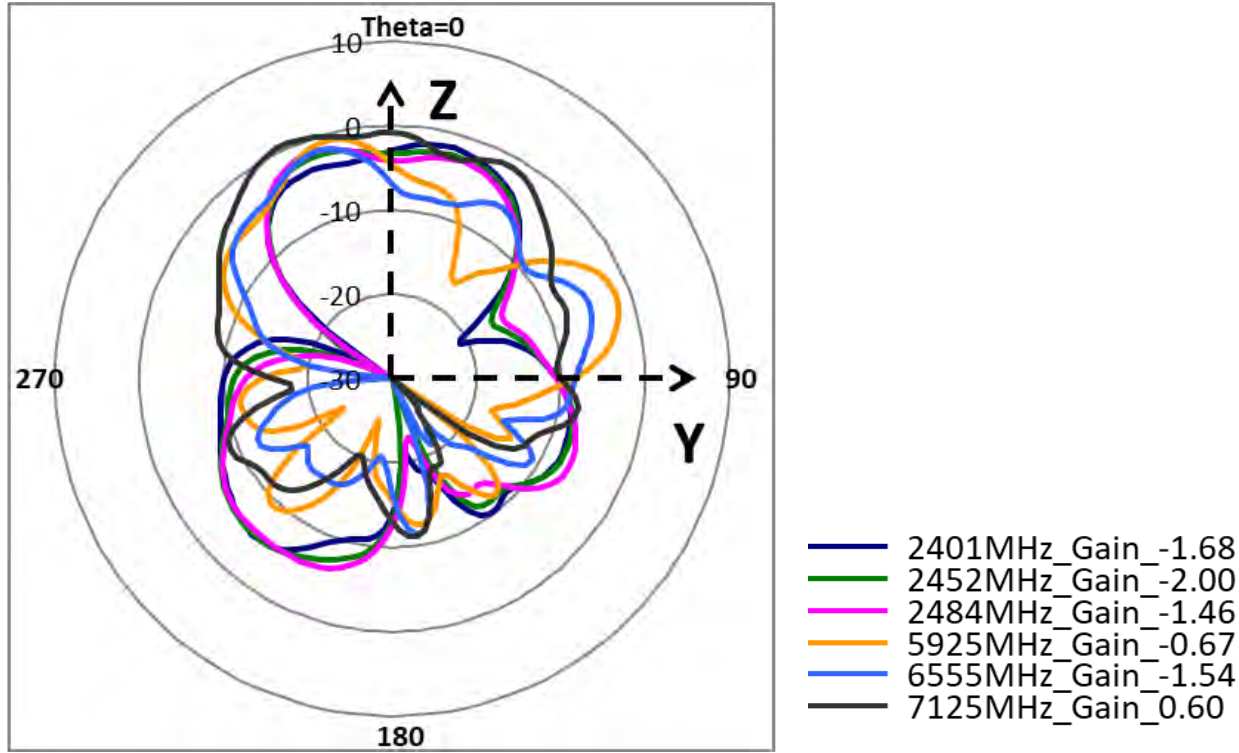
YZ_Pol._Phi_Ant.5



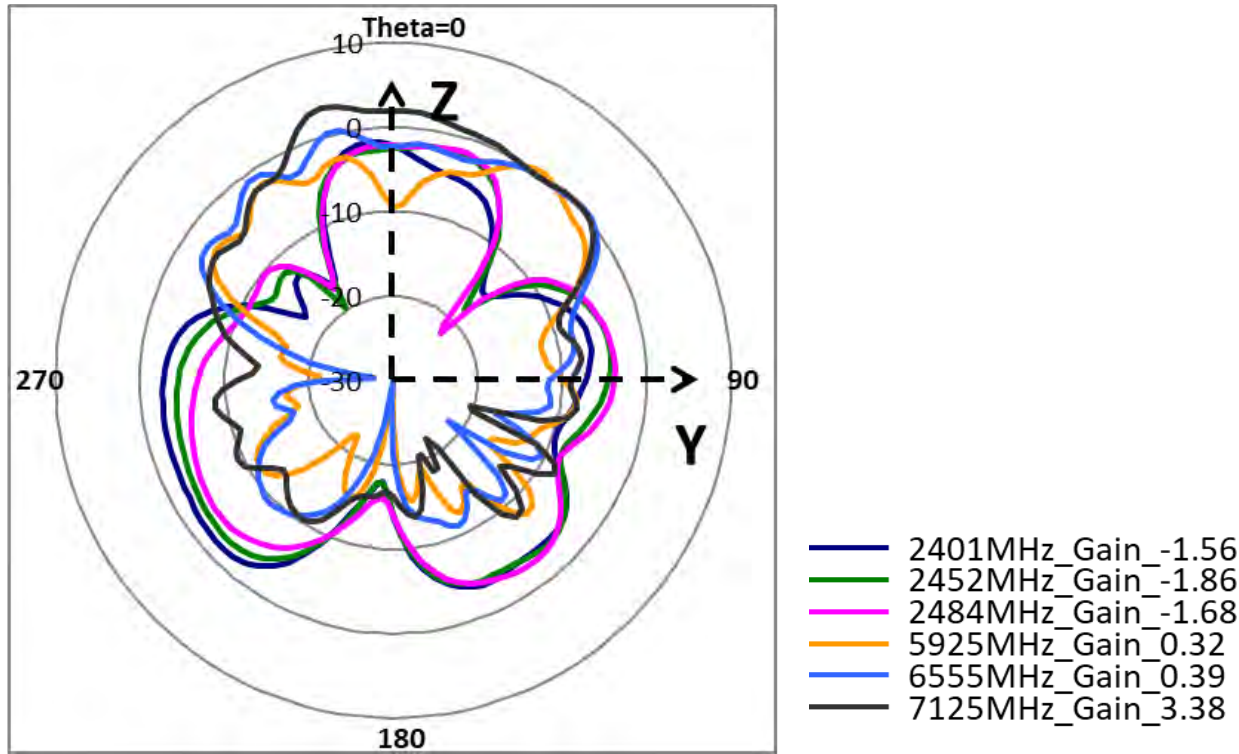
YZ_Pol._Phi_Ant.6



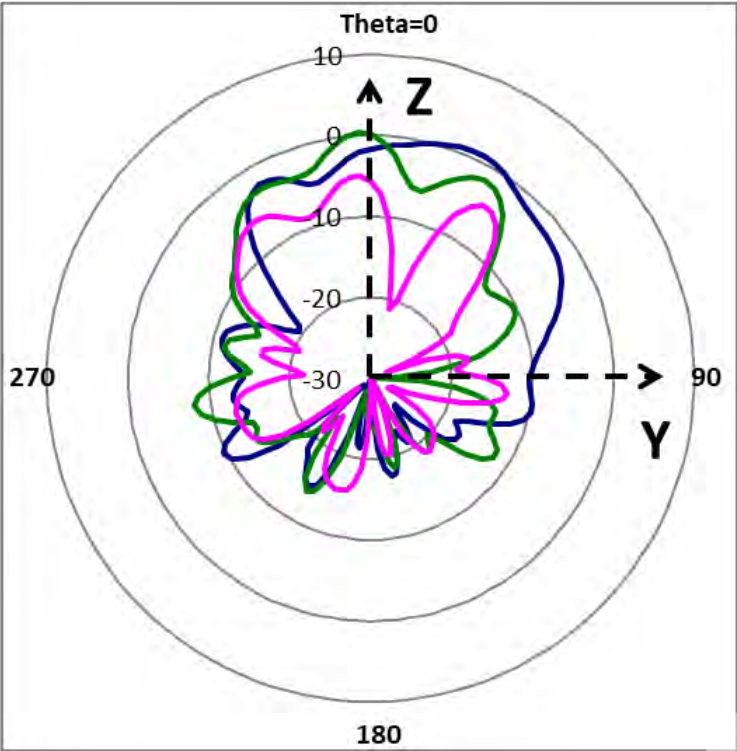
YZ_Pol._Phi_Ant.7



YZ_Pol._Phi_Ant.8

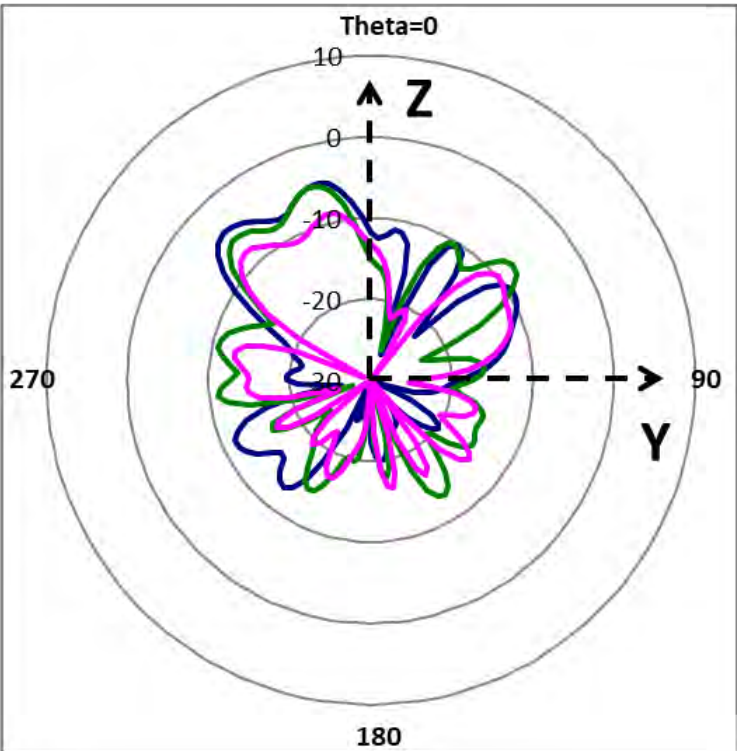


YZ_Pol._Theta_Ant.5



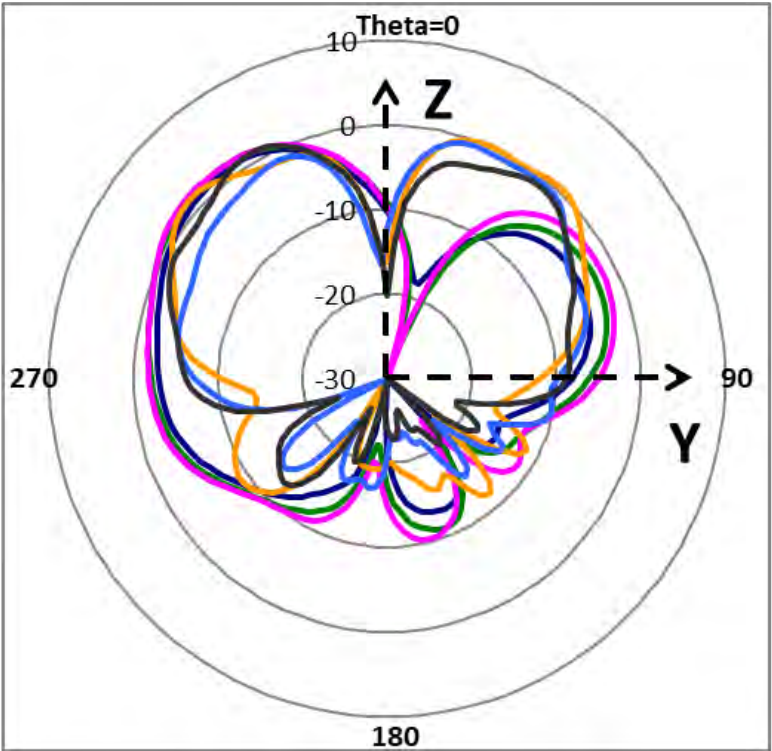
- 5925MHz_Gain_0.88
- 6555MHz_Gain_0.35
- 7125MHz_Gain_-4.62

YZ_Pol._Theta_Ant.6



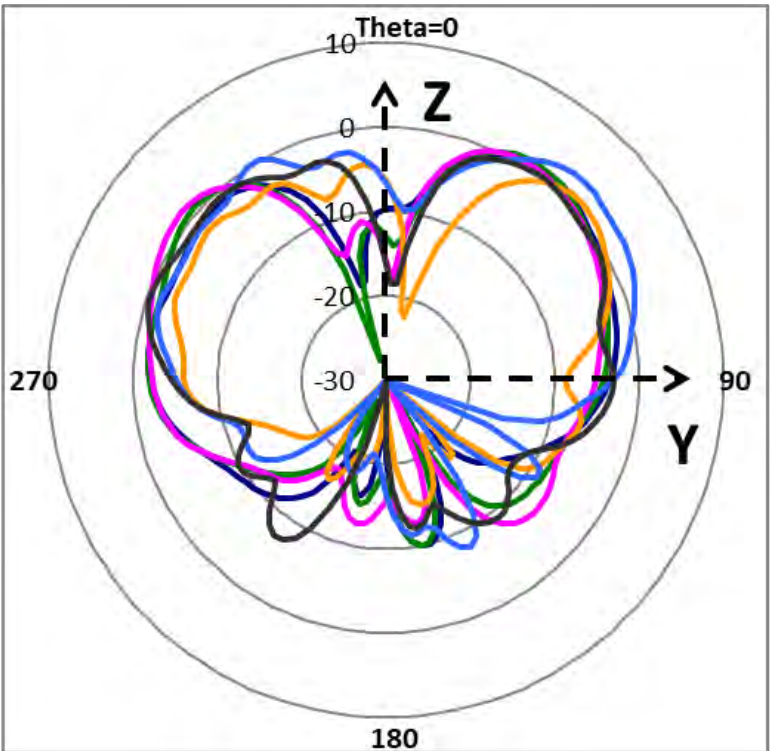
- 5925MHz_Gain_-4.34
- 6555MHz_Gain_-5.04
- 7125MHz_Gain_-7.91

YZ_Pol._Theta_Ant.7



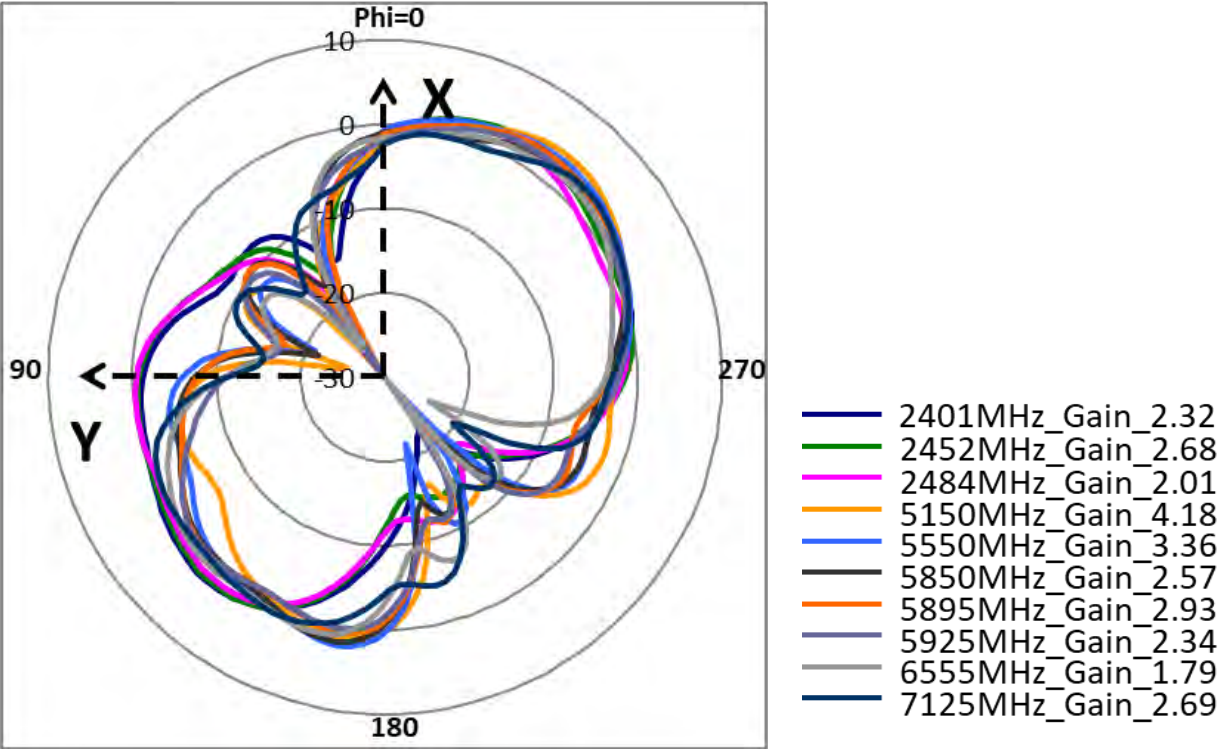
- 2401MHz_Gain_1.21
- 2452MHz_Gain_1.70
- 2484MHz_Gain_1.88
- 5925MHz_Gain_1.51
- 6555MHz_Gain_-0.45
- 7125MHz_Gain_1.16

YZ_Pol._Theta_Ant.8

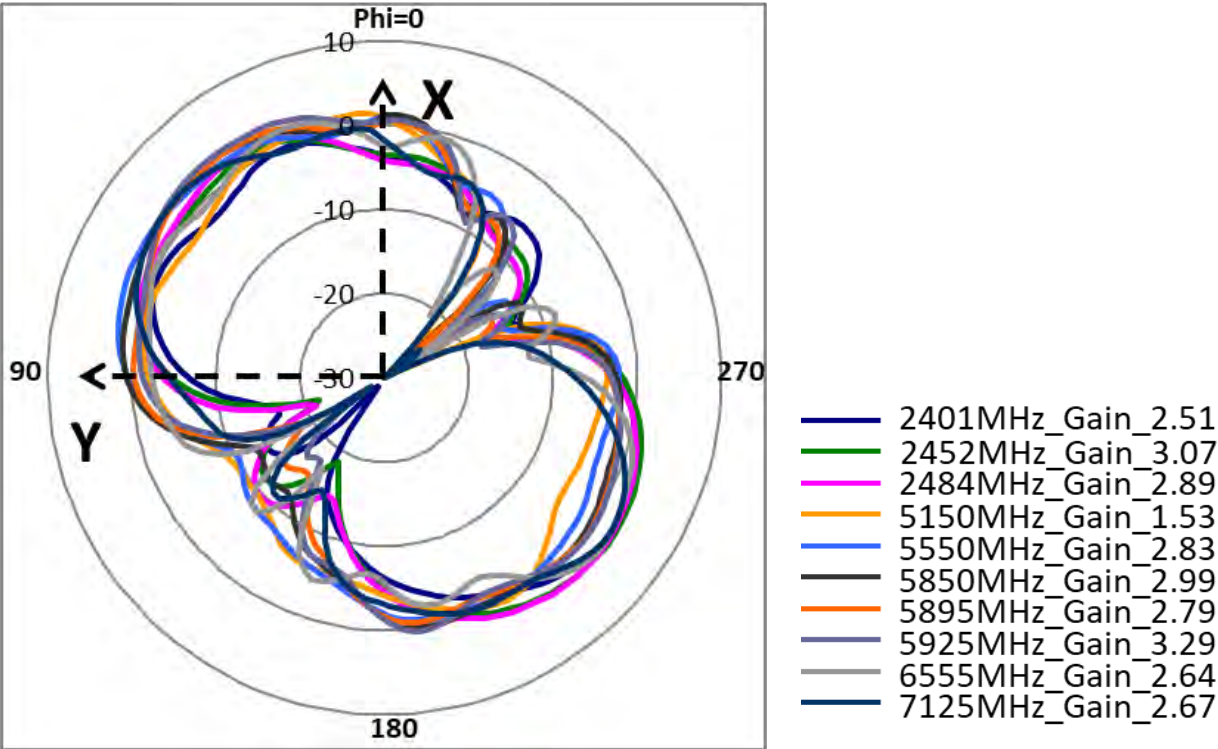


- 2401MHz_Gain_1.19
- 2452MHz_Gain_1.29
- 2484MHz_Gain_1.38
- 5925MHz_Gain_1.29
- 6555MHz_Gain_3.34
- 7125MHz_Gain_0.38

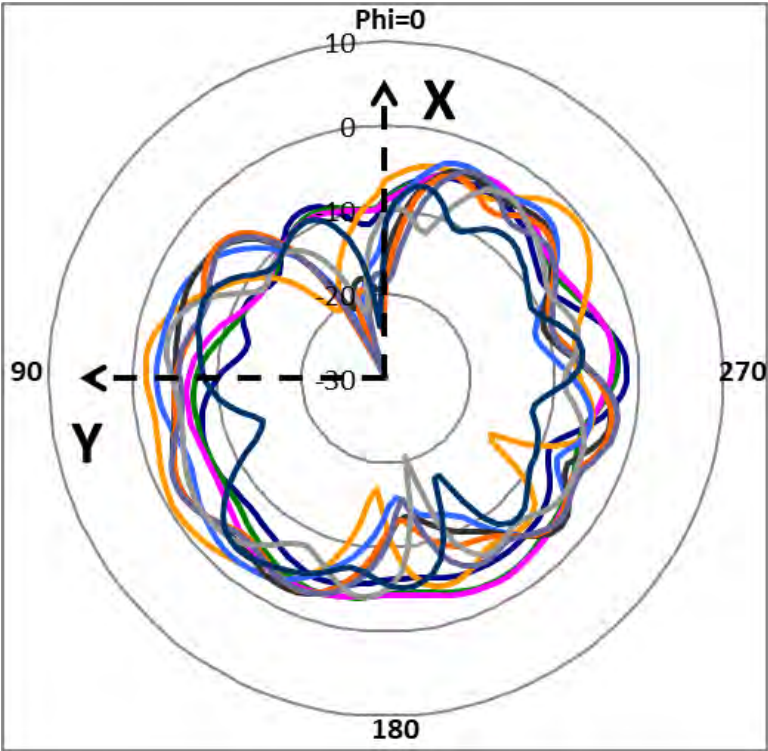
XY_Pol._Phi_Ant.9



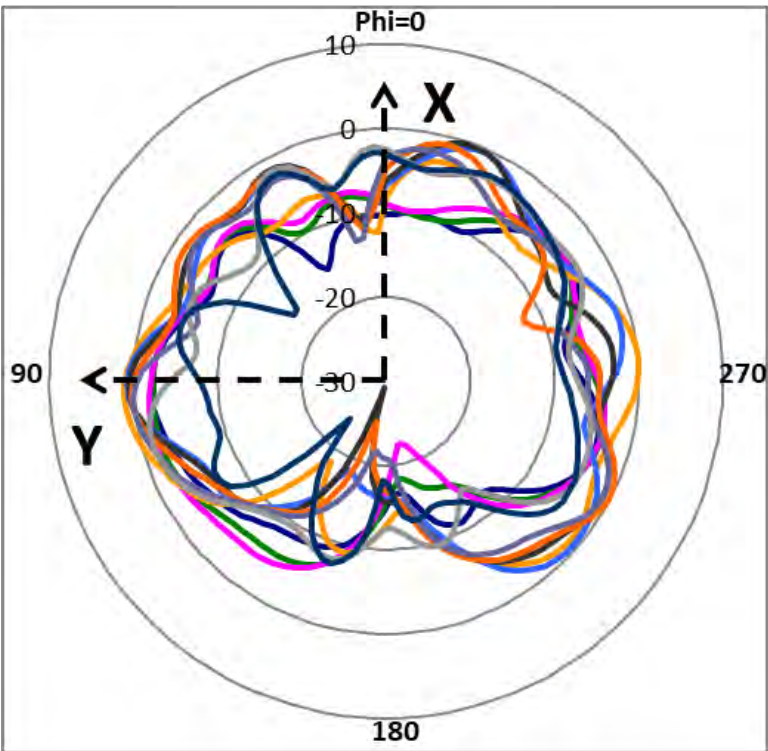
XY_Pol._Phi_Ant.10



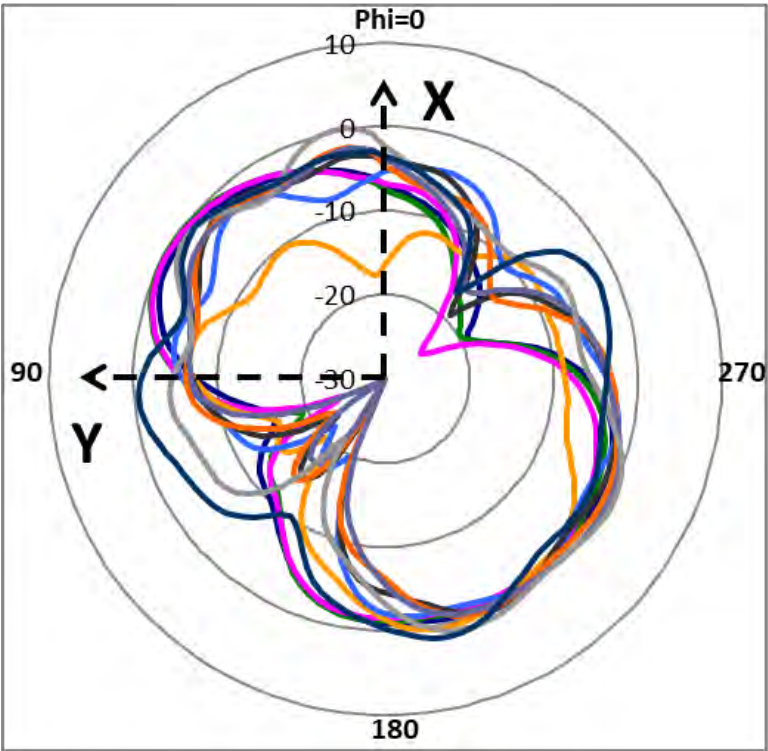
XY_Pol._Phi_Ant.11



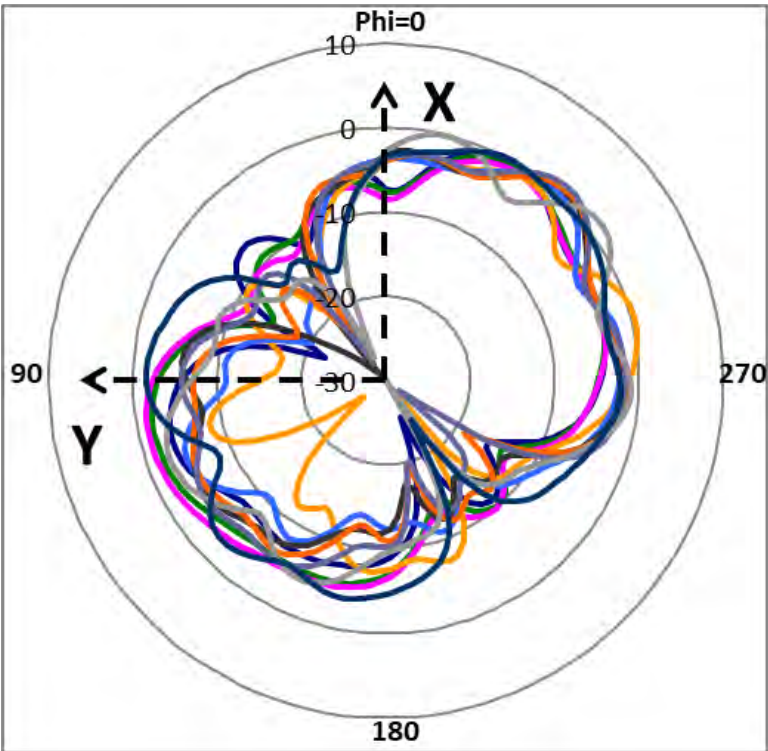
XY_Pol._Phi_Ant.12



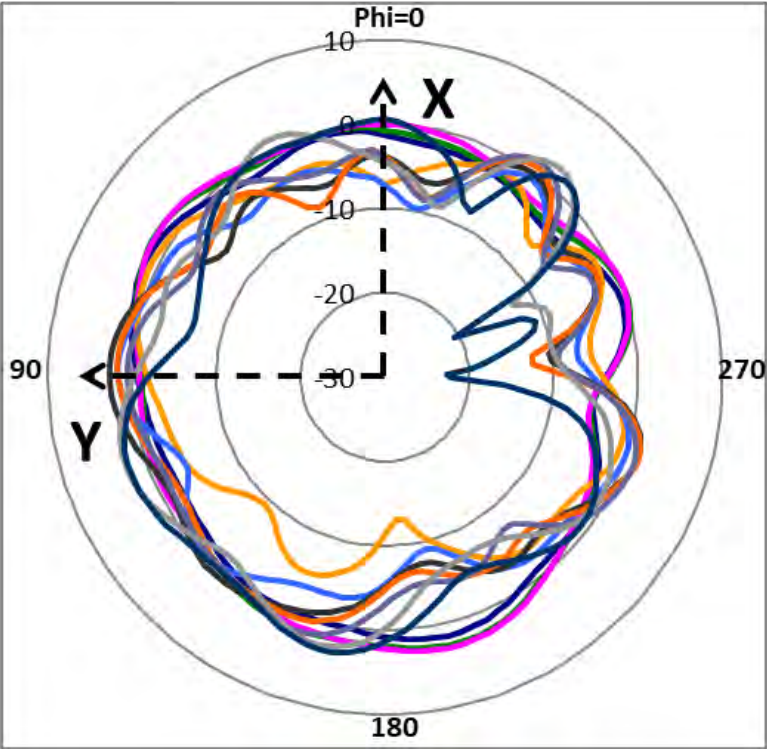
XY_Pol._Theta_Ant.9



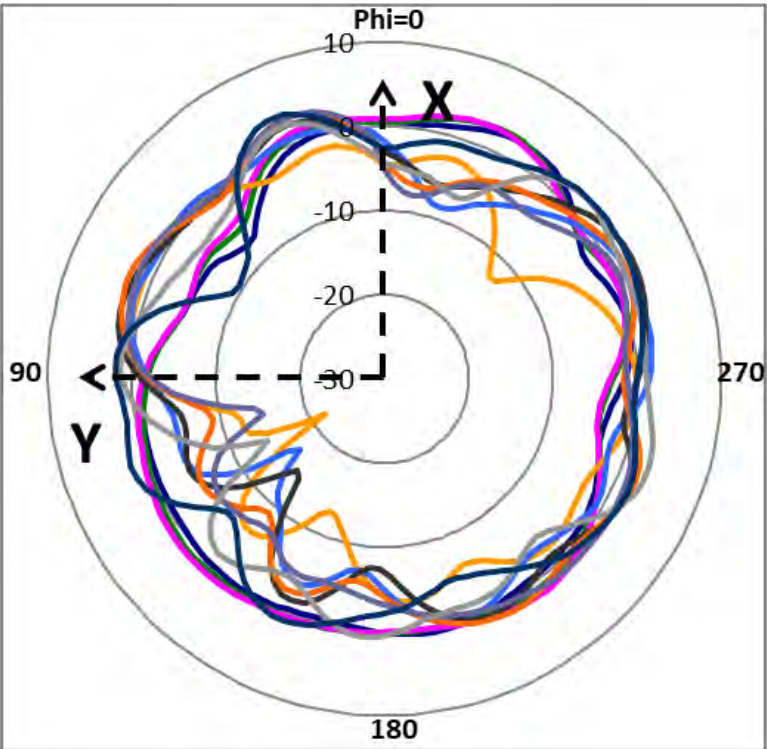
XY_Pol._Theta_Ant.10



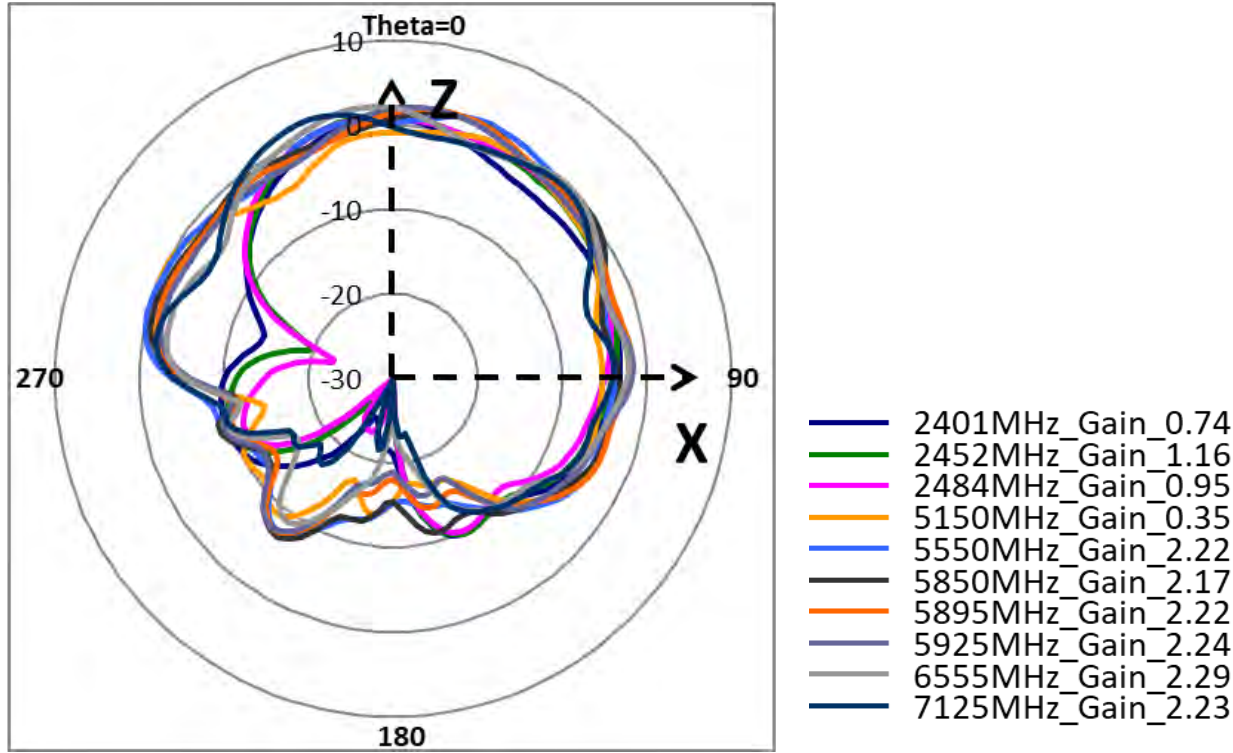
XY_Pol._Theta_Ant.11



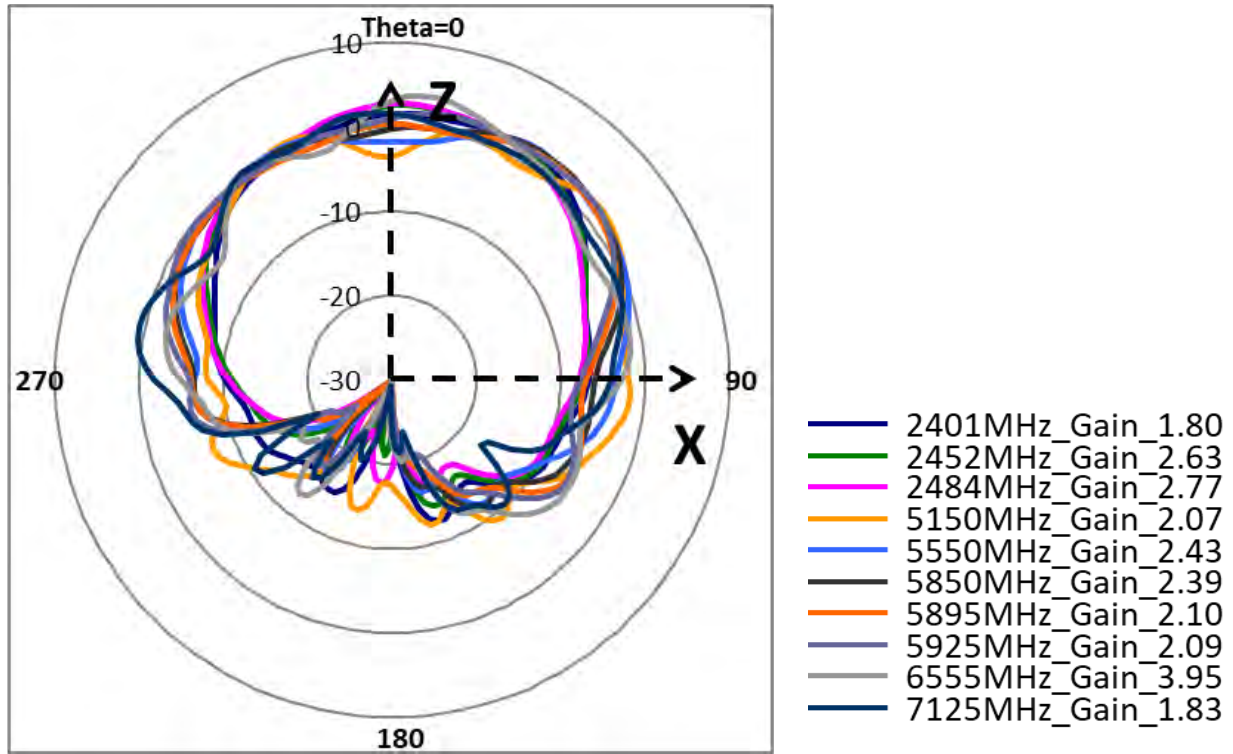
XY_Pol._Theta_Ant.12



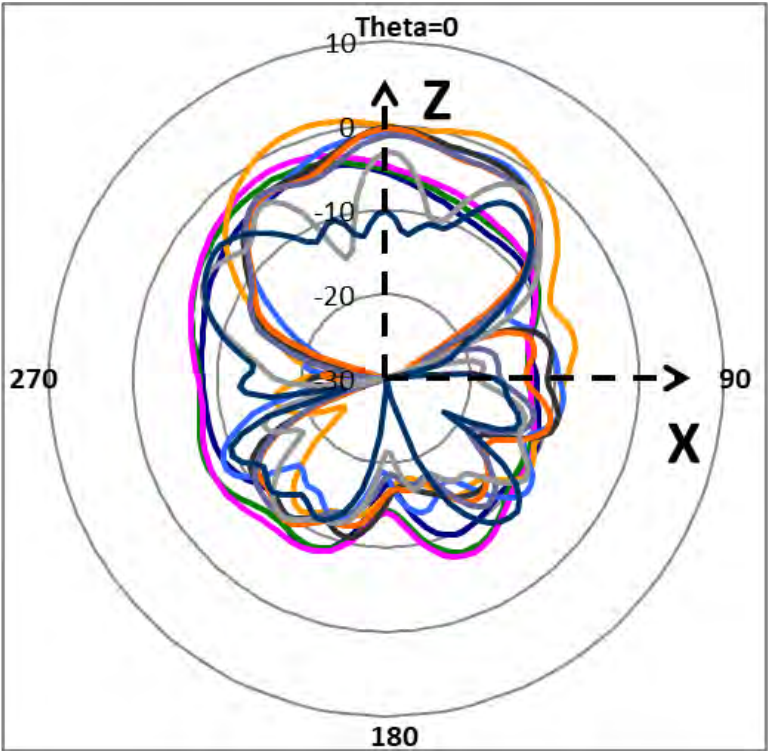
XZ_Pol._Phi_Ant.9



XZ_Pol._Phi_Ant.10

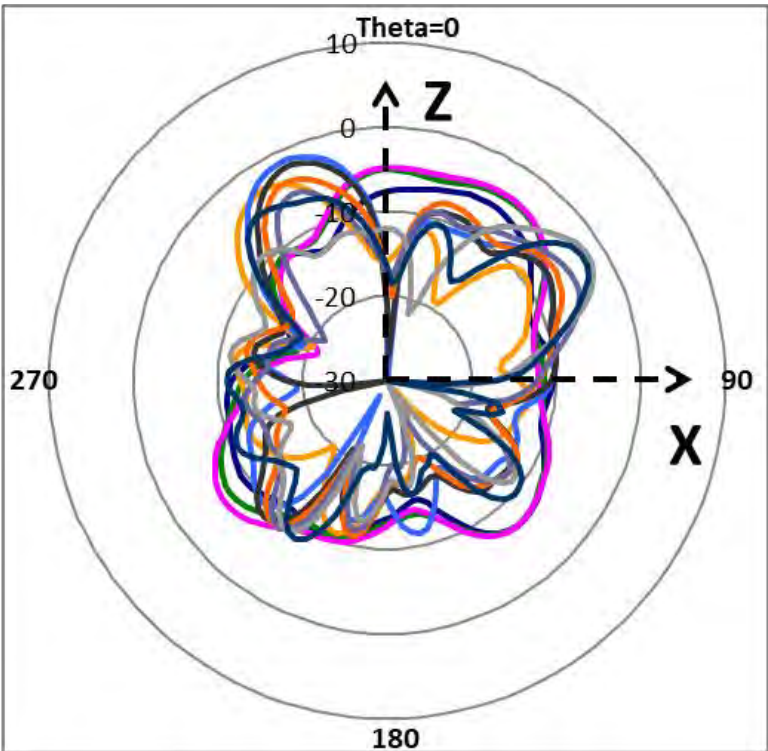


XZ_Pol._Phi_Ant.11



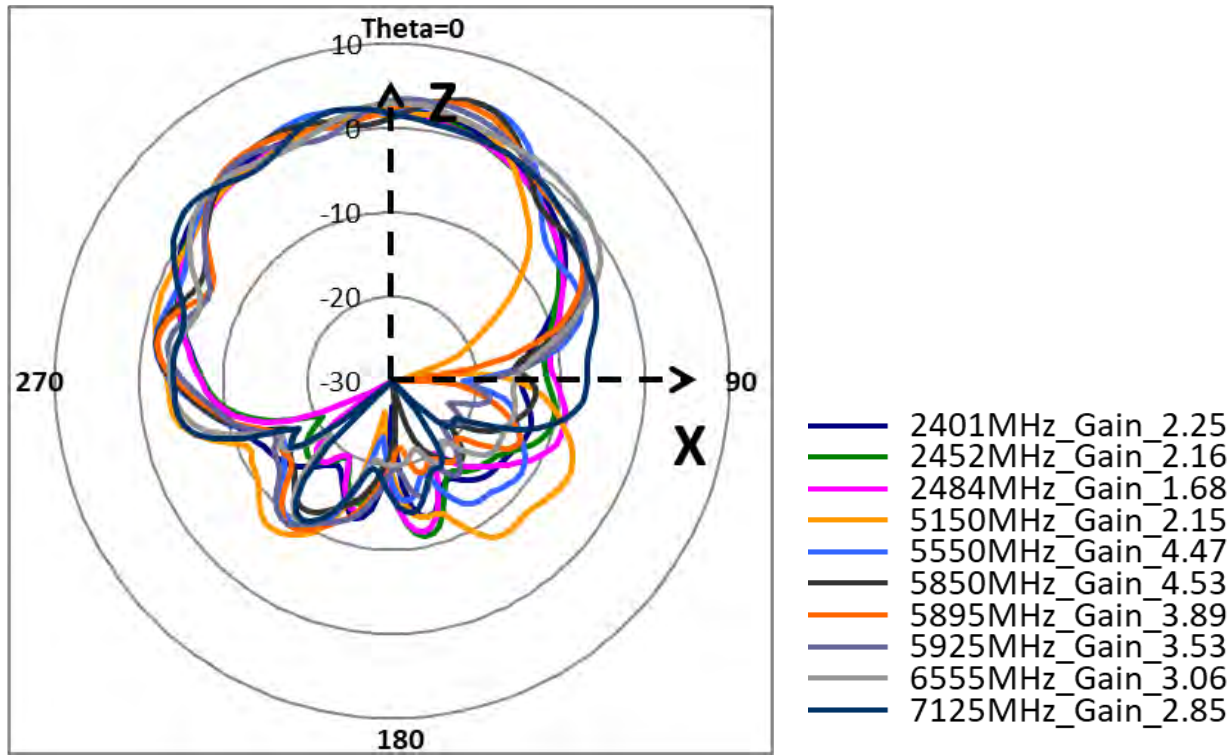
- 2401MHz_Gain_-3.94
- 2452MHz_Gain_-2.85
- 2484MHz_Gain_-1.80
- 5150MHz_Gain_1.36
- 5550MHz_Gain_-0.92
- 5850MHz_Gain_-0.18
- 5895MHz_Gain_-0.29
- 5925MHz_Gain_-1.13
- 6555MHz_Gain_-2.15
- 7125MHz_Gain_-4.56

XZ_Pol._Phi_Ant.12

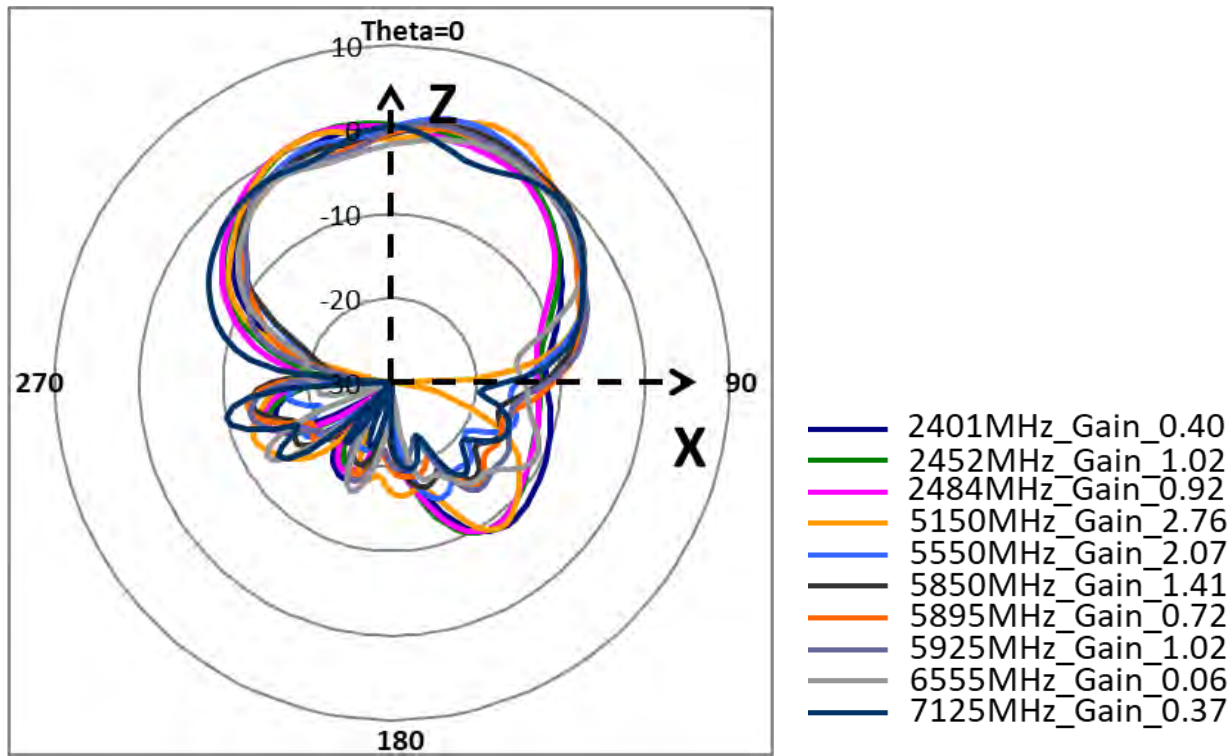


- 2401MHz_Gain_-5.81
- 2452MHz_Gain_-4.24
- 2484MHz_Gain_-3.81
- 5150MHz_Gain_-3.00
- 5550MHz_Gain_-1.28
- 5850MHz_Gain_-2.10
- 5895MHz_Gain_-3.74
- 5925MHz_Gain_-4.79
- 6555MHz_Gain_-1.96
- 7125MHz_Gain_-2.56

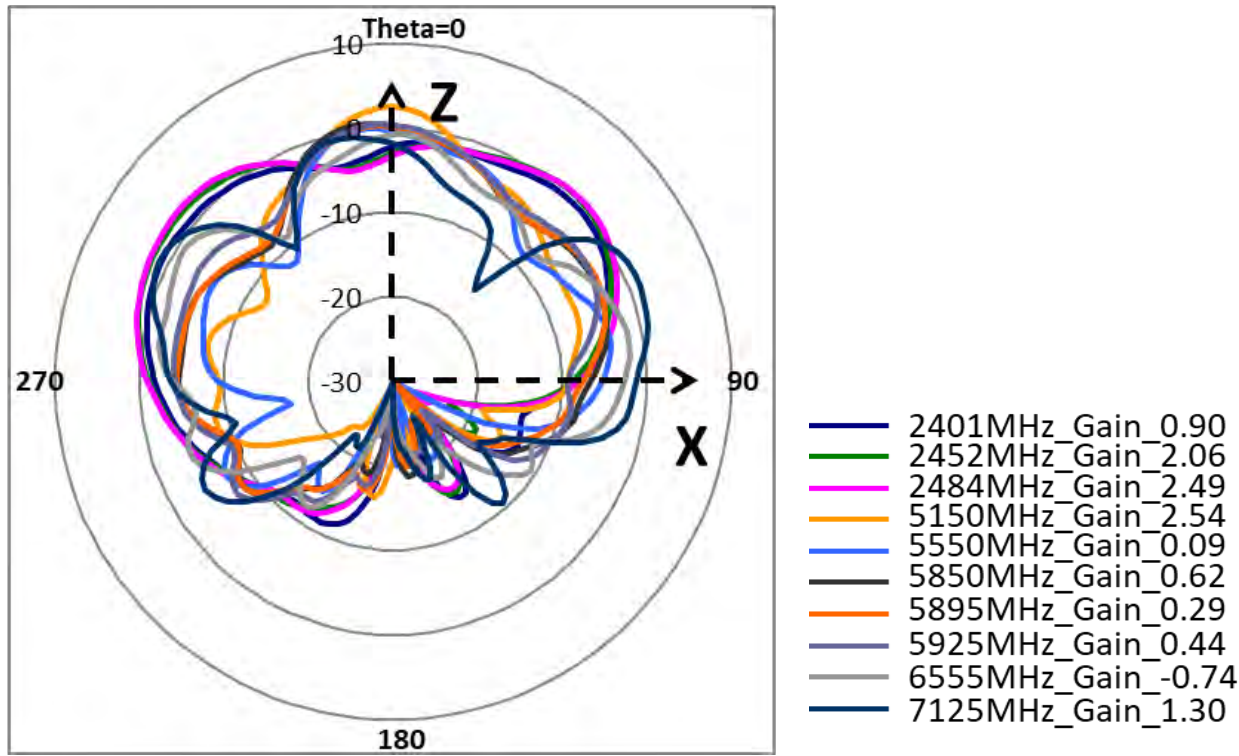
XZ_Pol._Theta_Ant.9



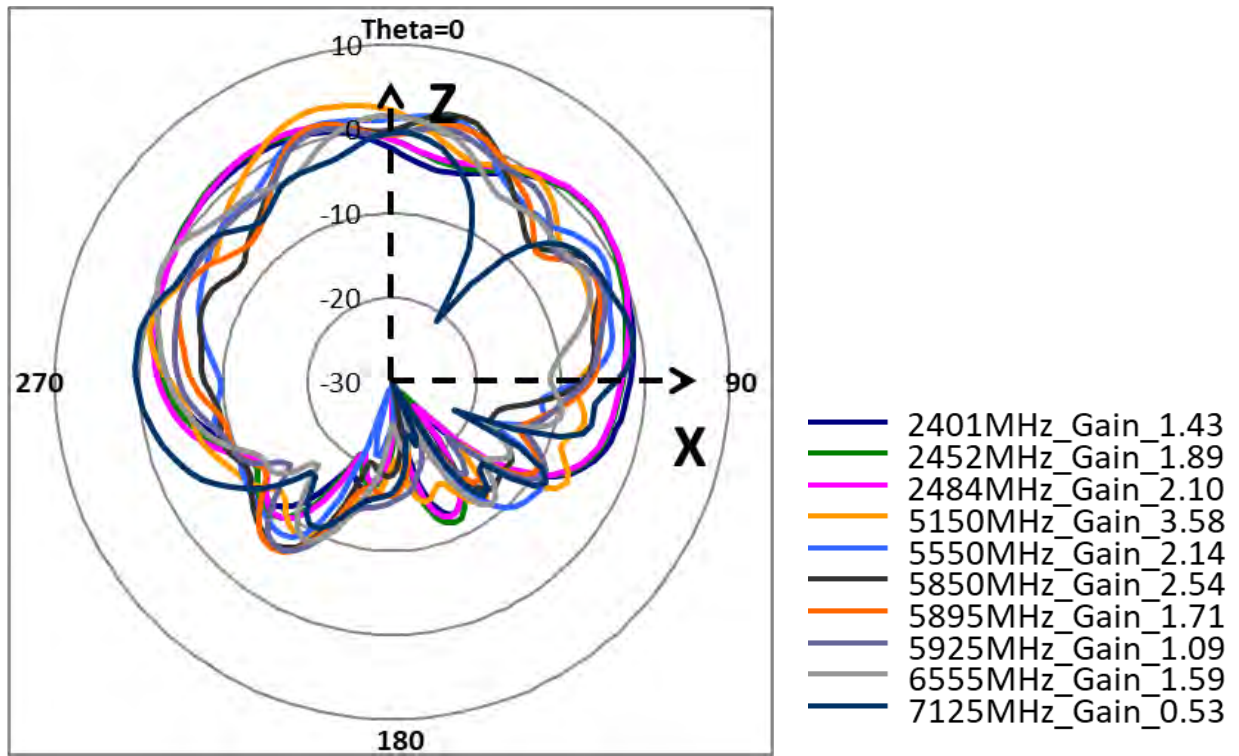
XZ_Pol._Theta_Ant.10



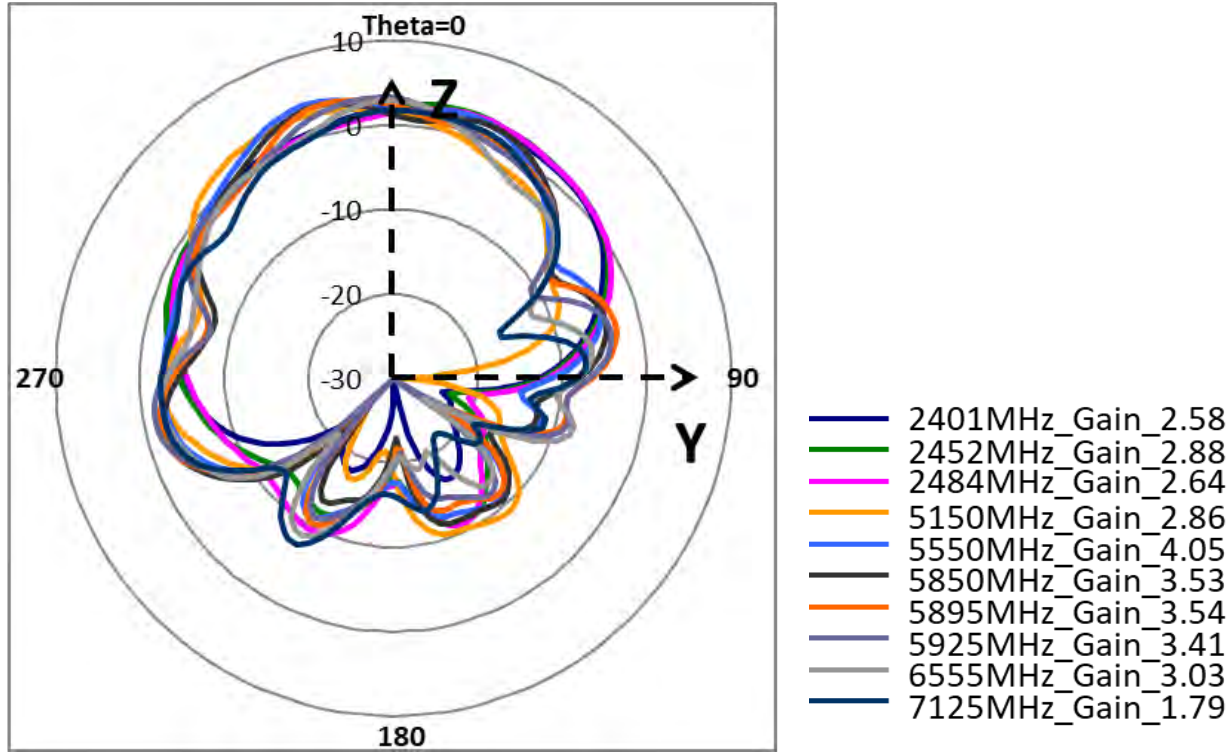
XZ_Pol._Theta_Ant.11



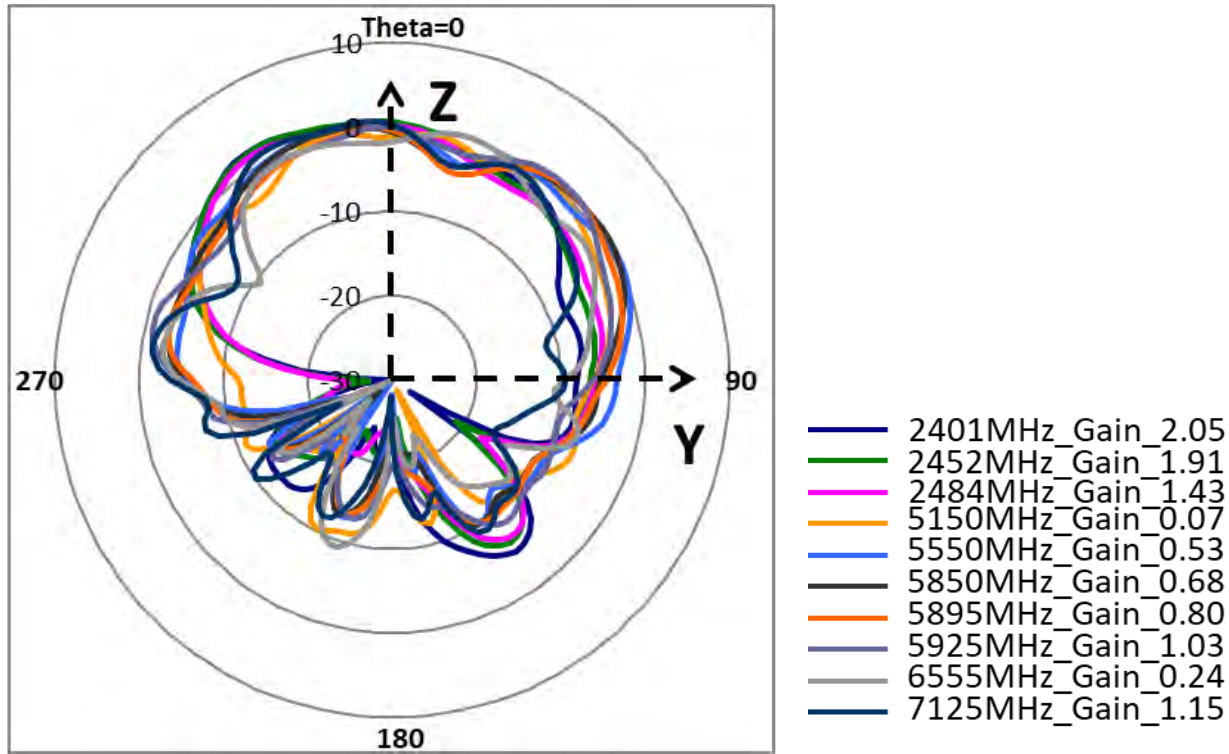
XZ_Pol._Theta_Ant.12



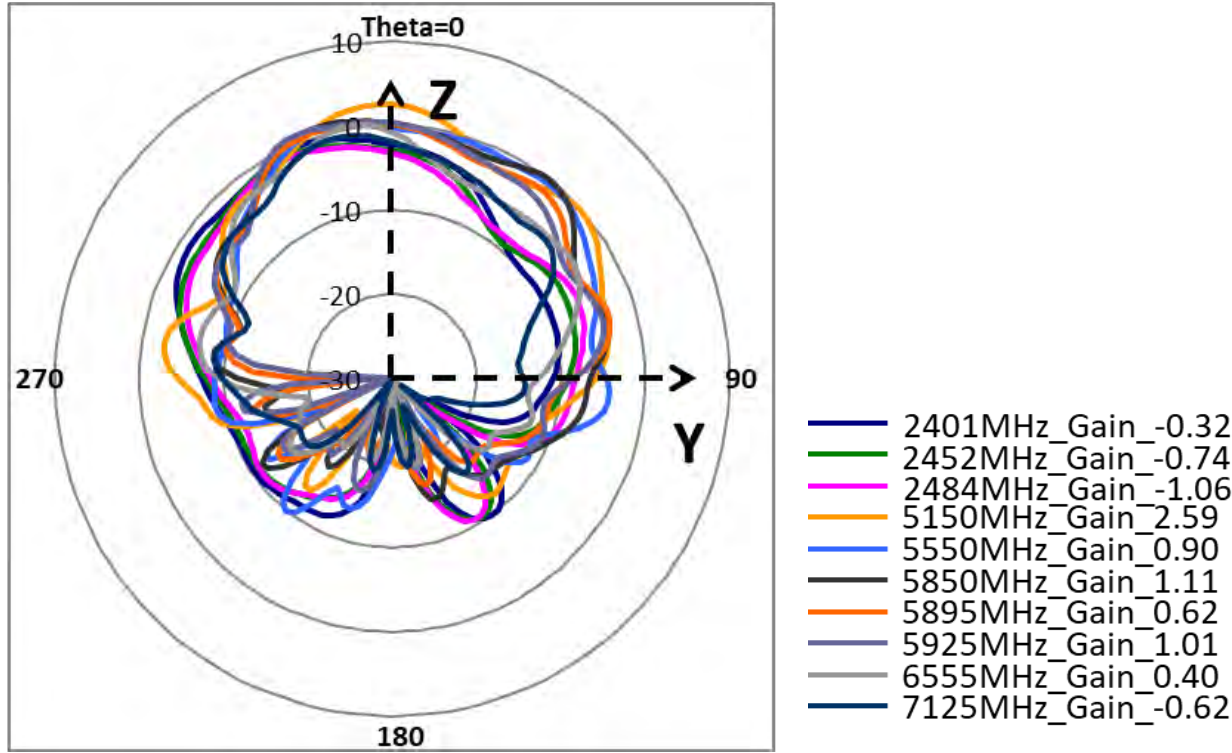
YZ_Pol._Phi_Ant.9



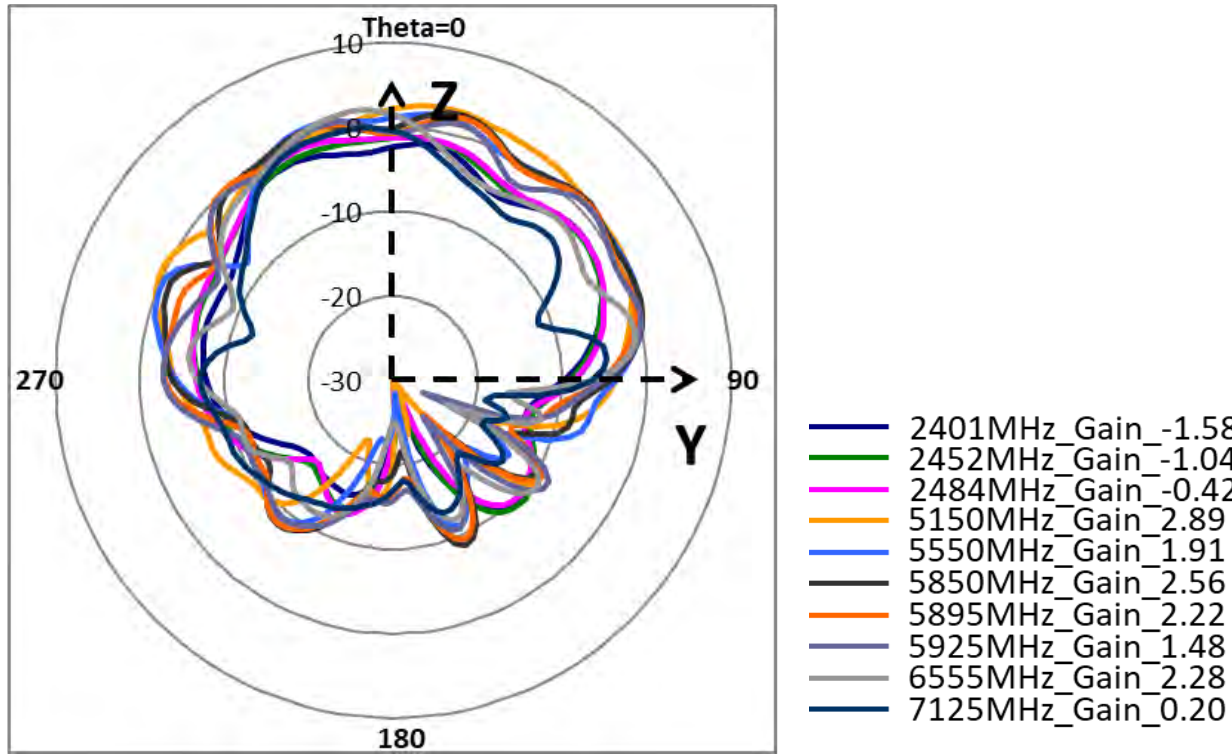
YZ_Pol._Phi_Ant.10



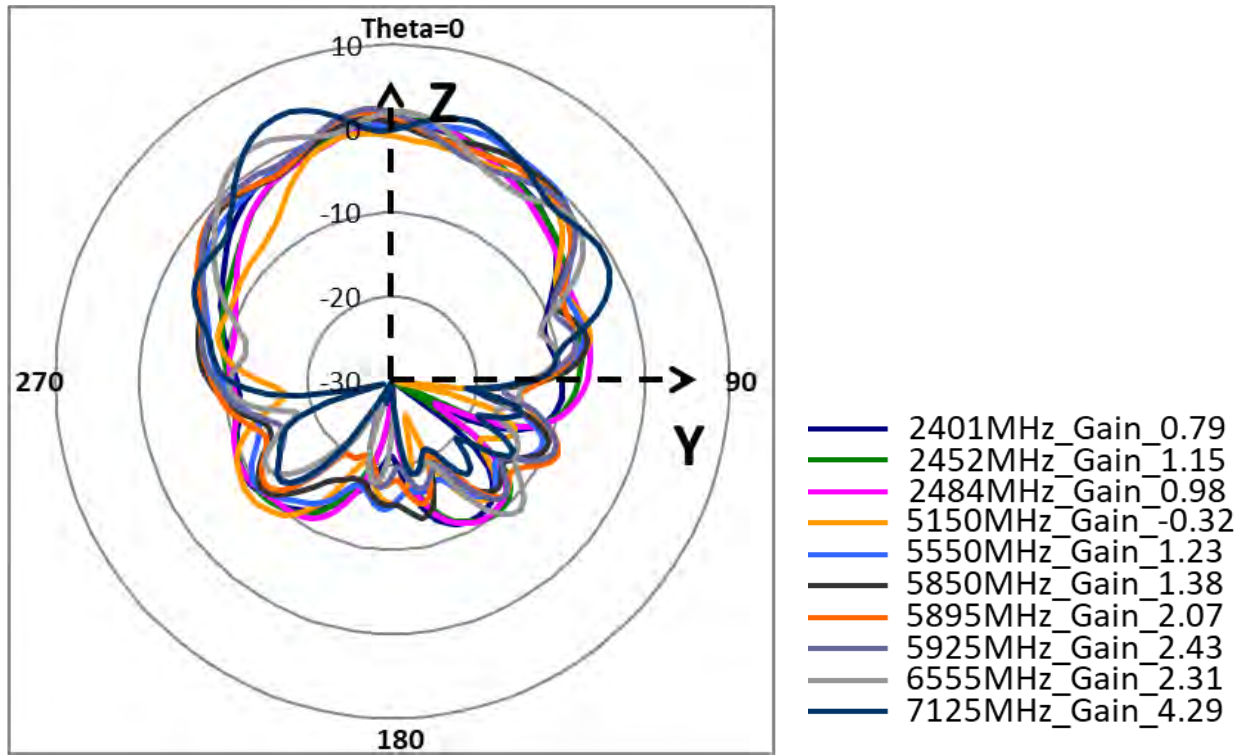
YZ_Pol._Phi_Ant.11



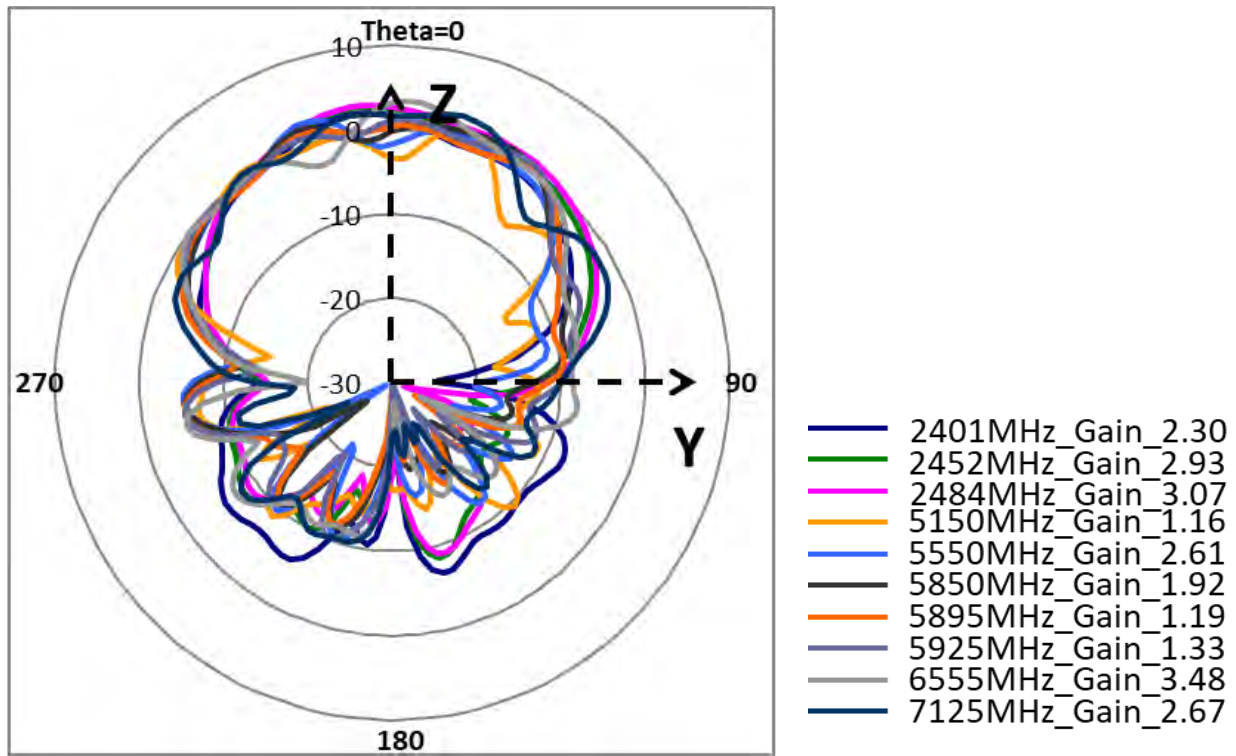
YZ_Pol._Phi_Ant.12



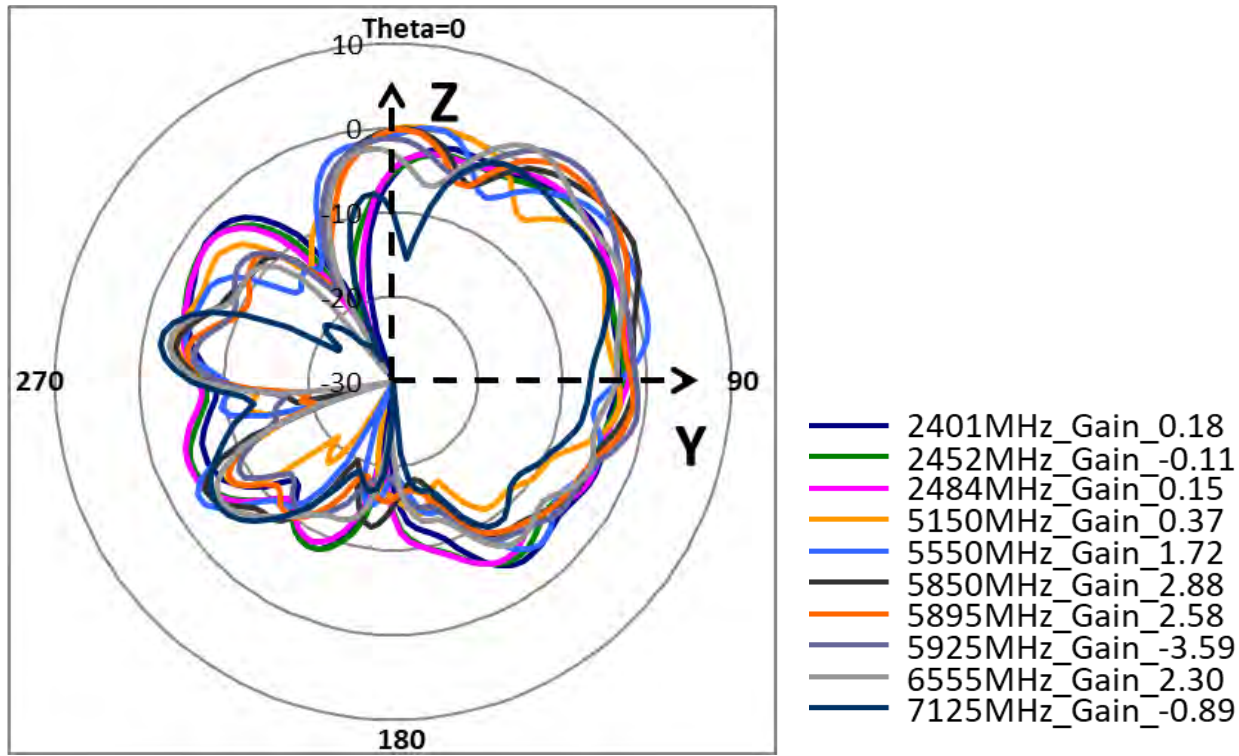
YZ_Pol._Theta_Ant.9



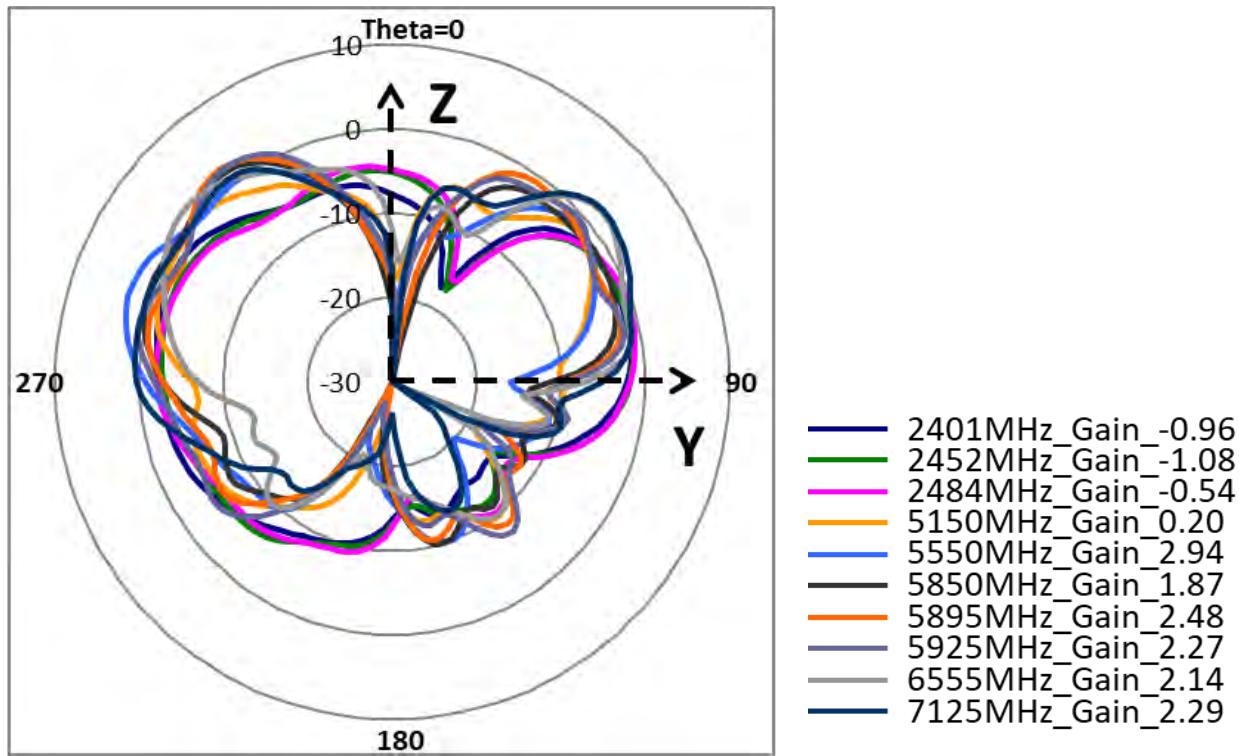
YZ_Pol._Theta_Ant.10



YZ_Pol._Theta_Ant.11

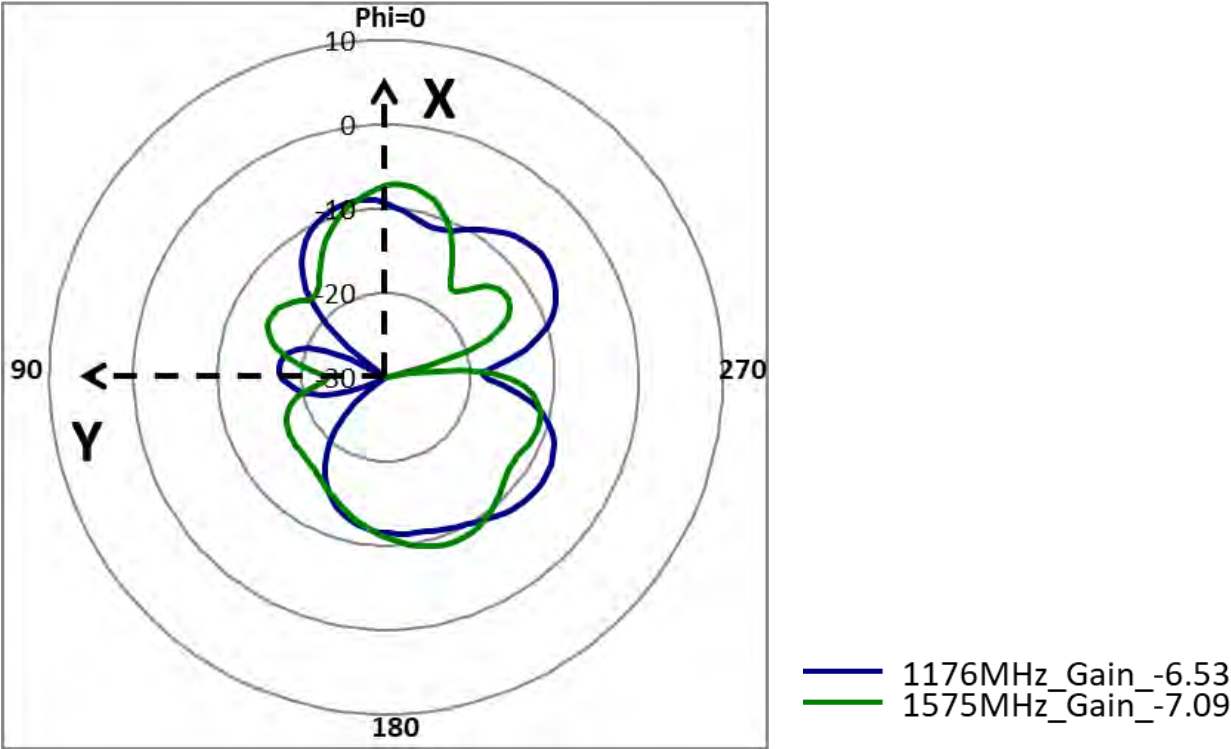


YZ_Pol._Theta_Ant.12

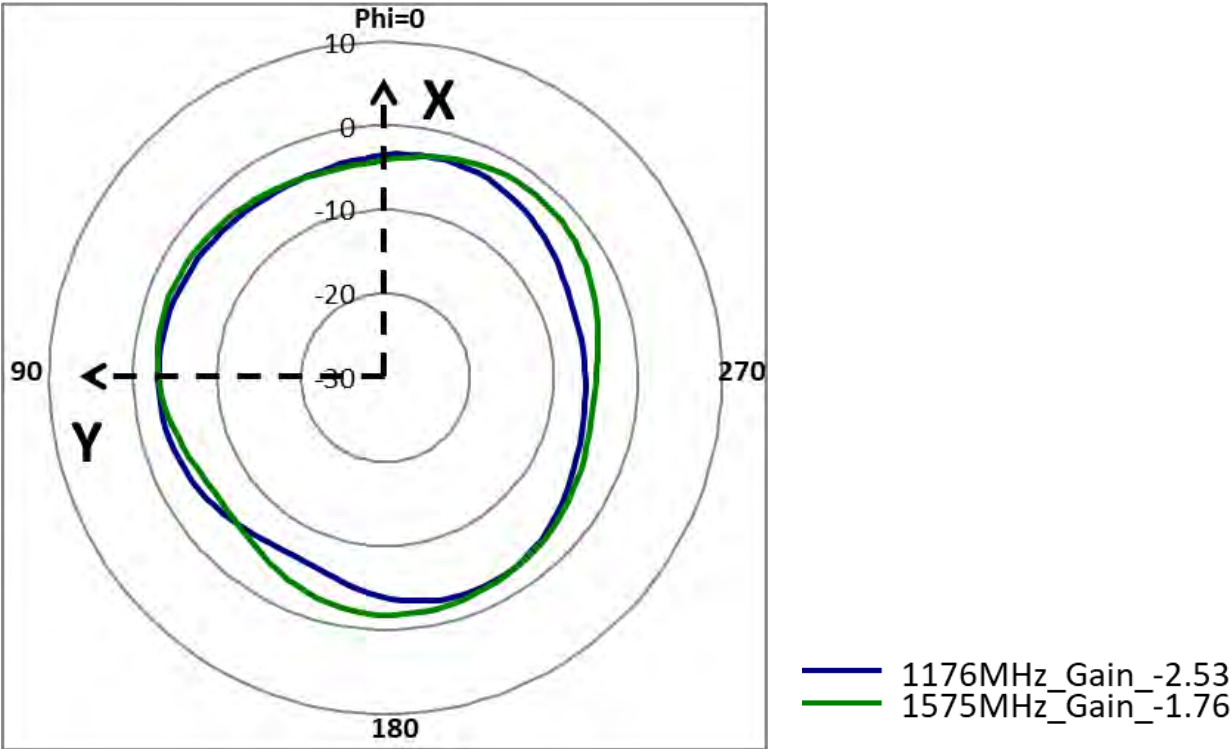


Ant. Position : GPS Ant.13

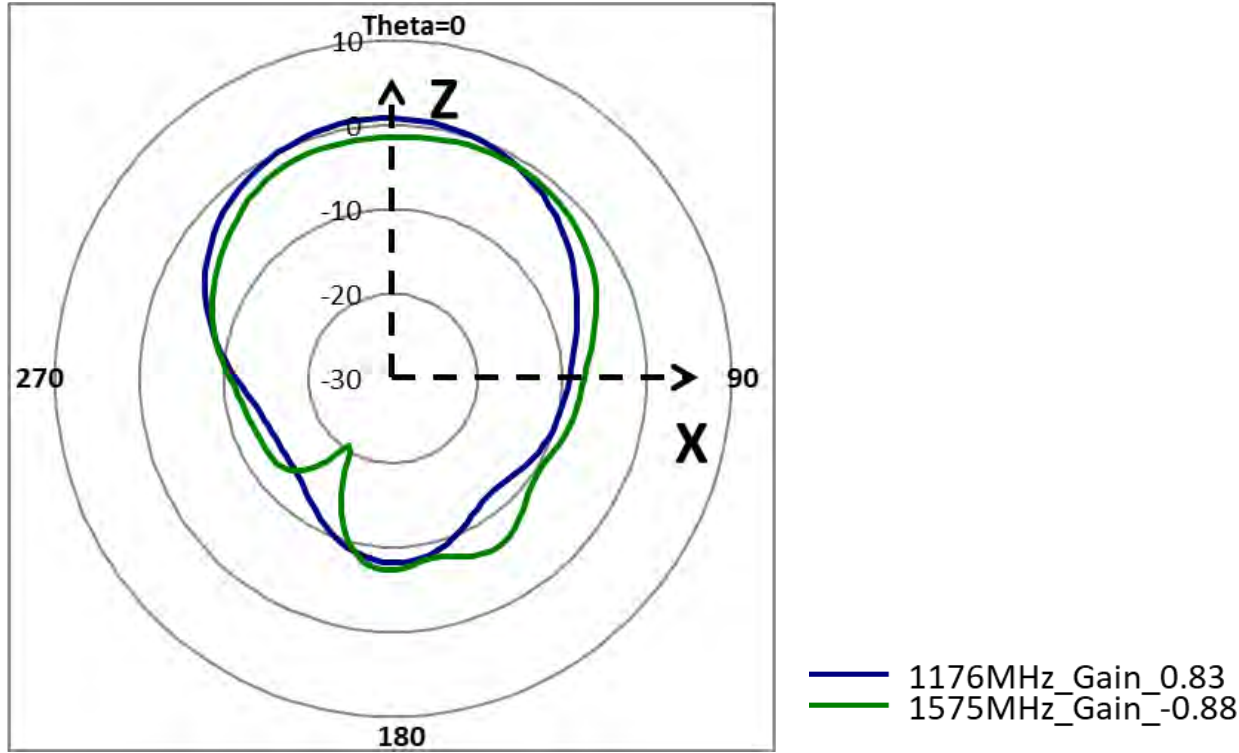
XY_Pol._Phi_Ant.13



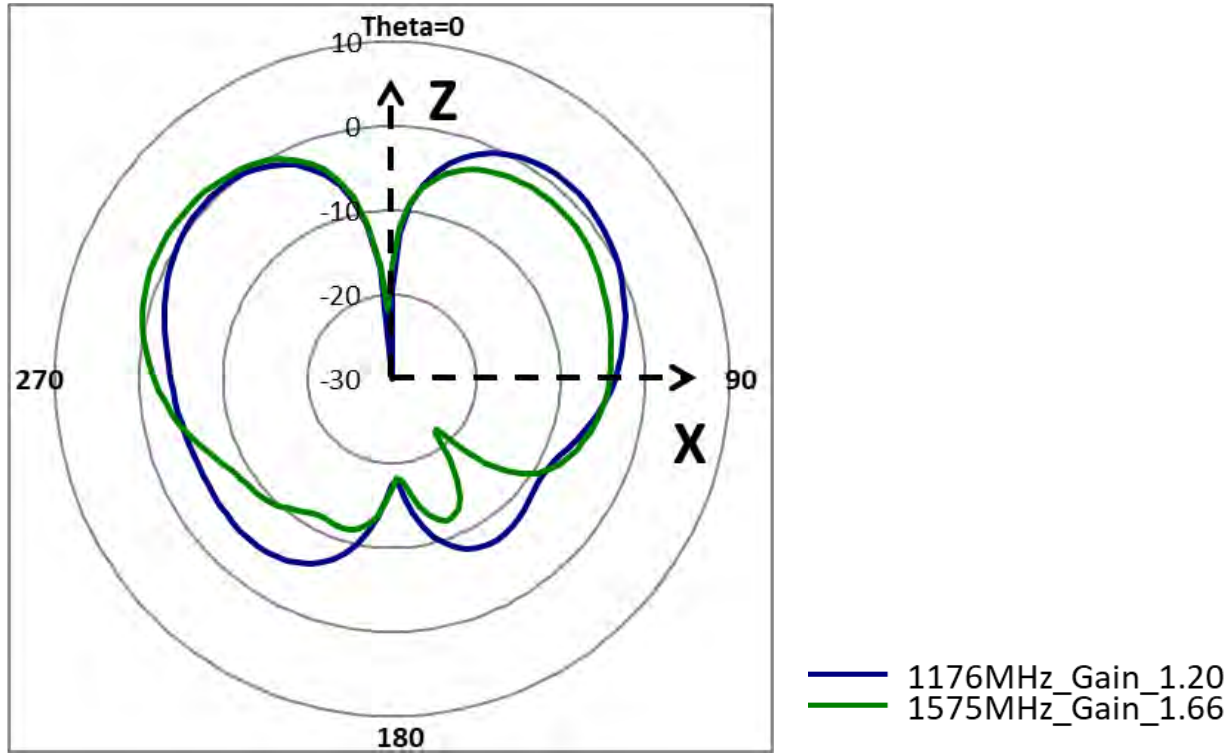
XY_Pol._Theta_Ant.13



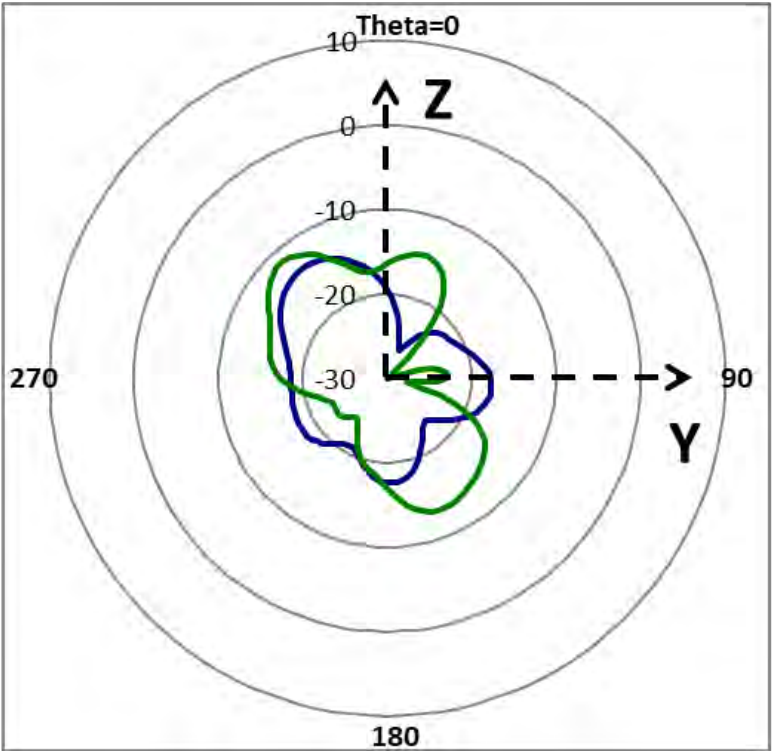
XZ_Pol._Phi_Ant.13



XZ_Pol._Theta_Ant.13

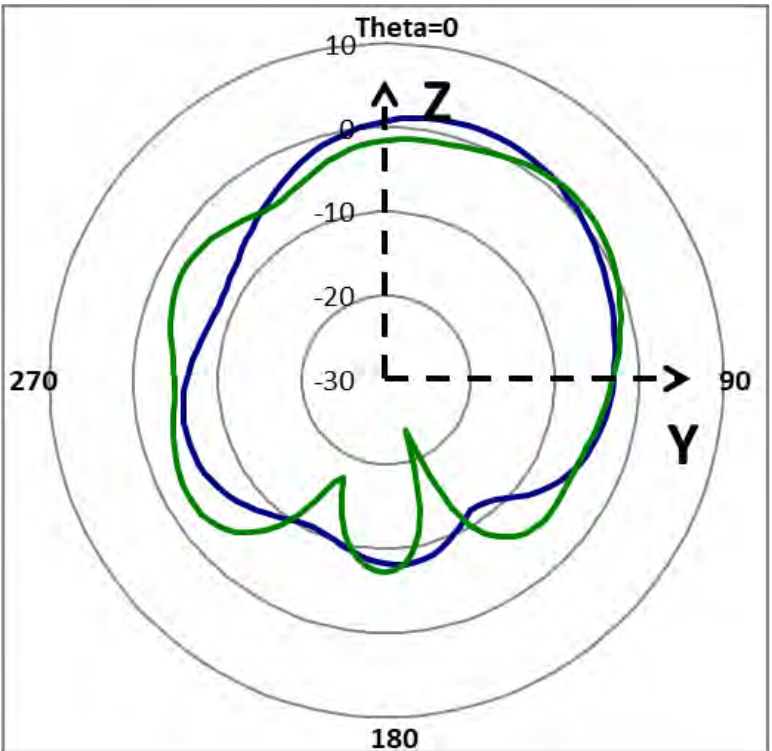


YZ_Pol._Phi_Ant.13



1176MHz_Gain_-13.57
1575MHz_Gain_-11.46

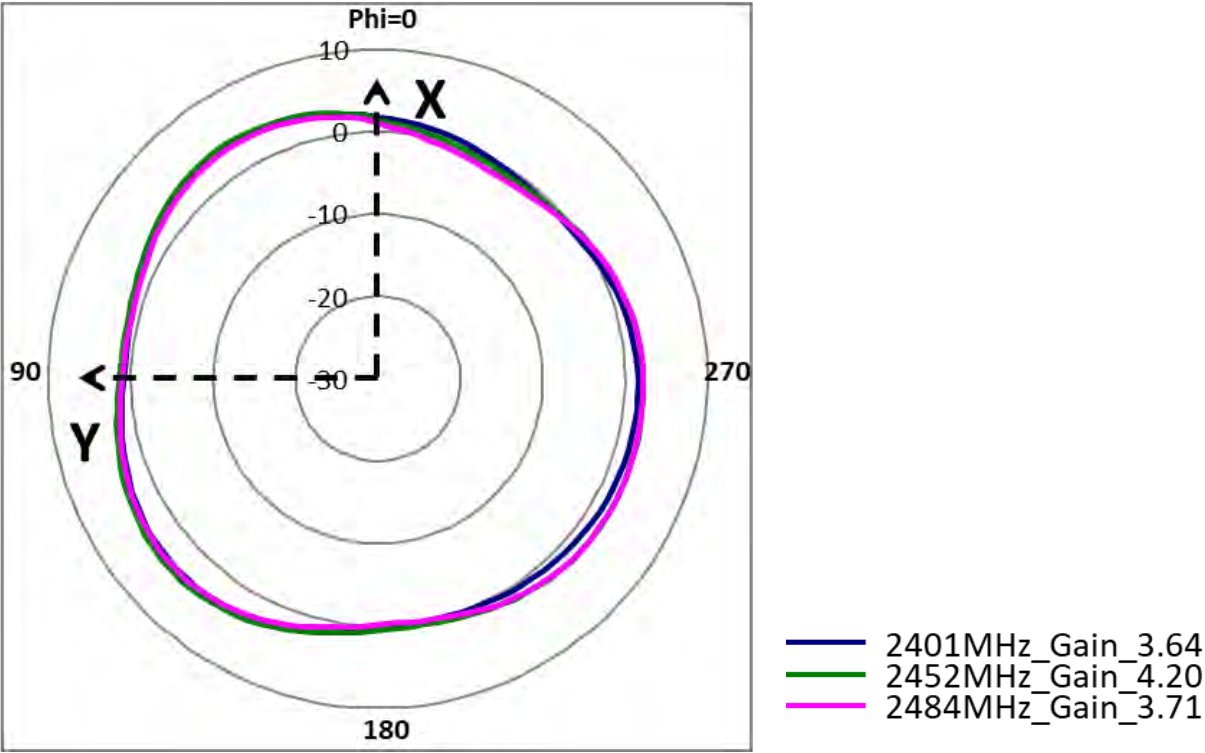
YZ_Pol._Theta_Ant.13



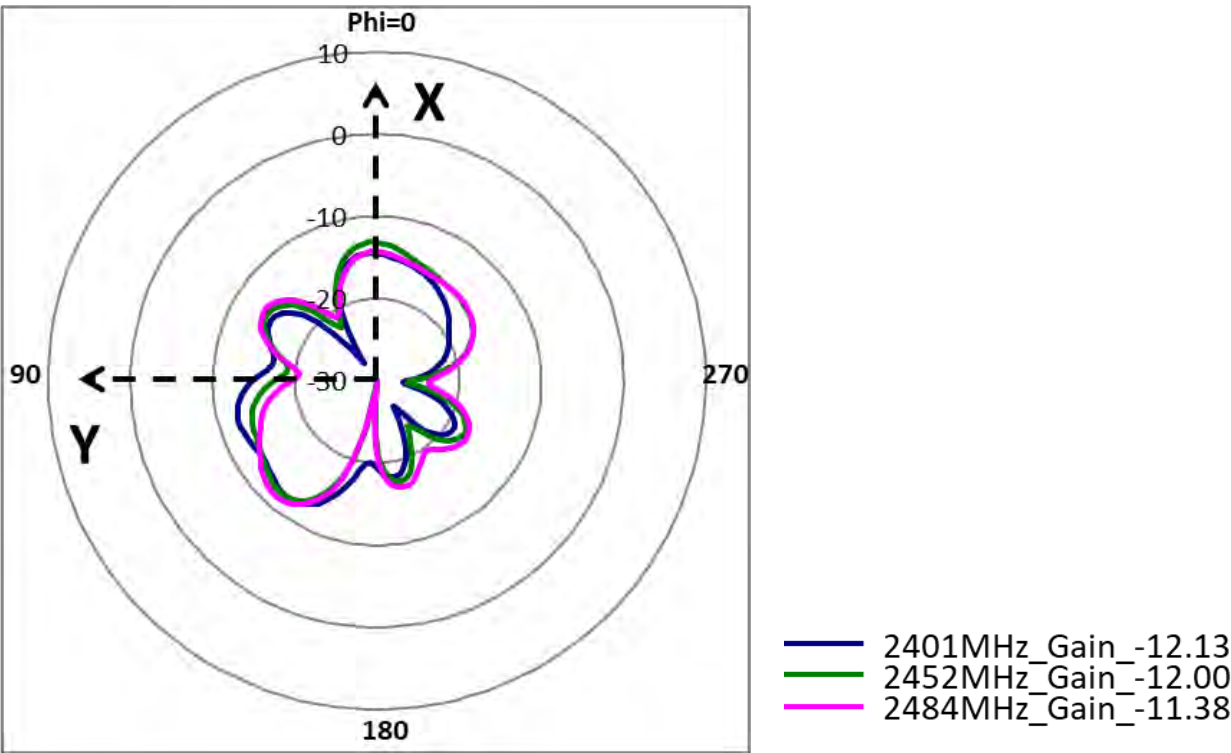
1176MHz_Gain_1.79
1575MHz_Gain_1.19

Ant. Position : BLE Ant.14

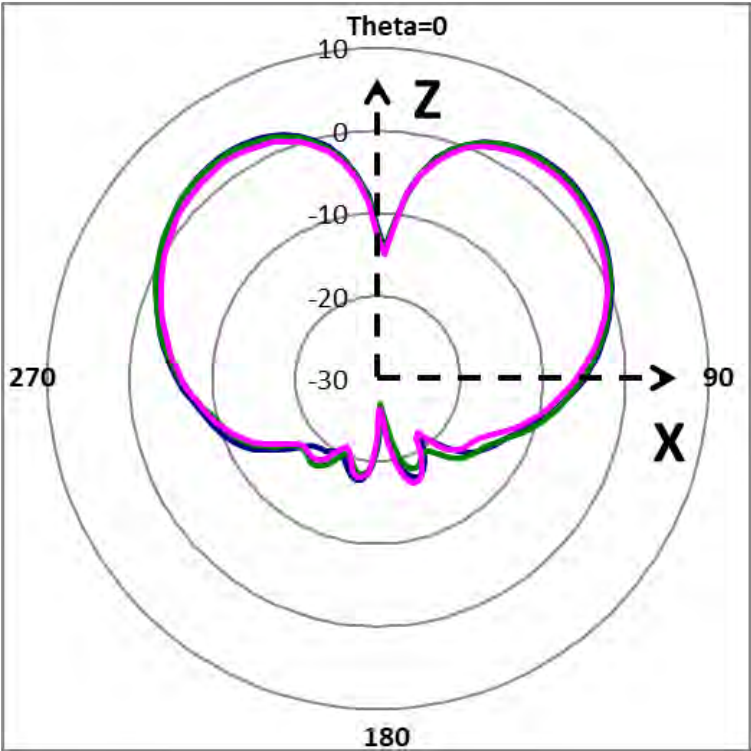
XY_Pol._Phi_Ant.14



XY_Pol._Theta_Ant.14

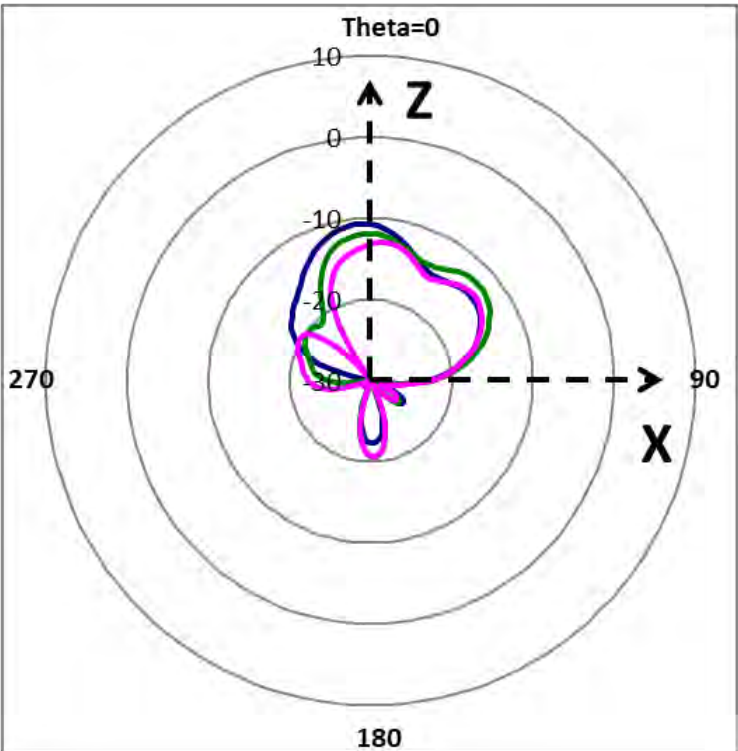


XZ_Pol._Phi_Ant.14



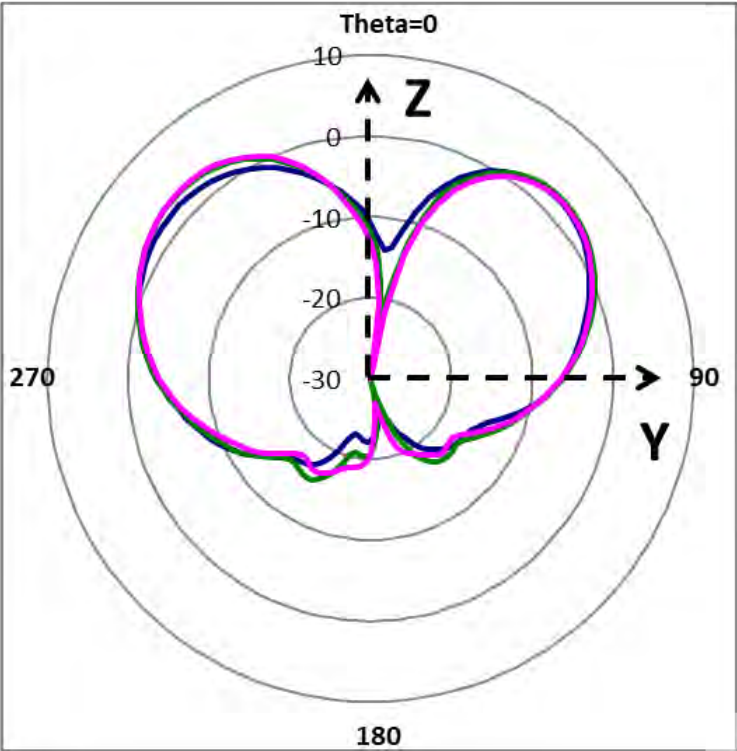
- 2401MHz_Gain_3.42
- 2452MHz_Gain_3.21
- 2484MHz_Gain_2.67

XZ_Pol._Theta_Ant.14



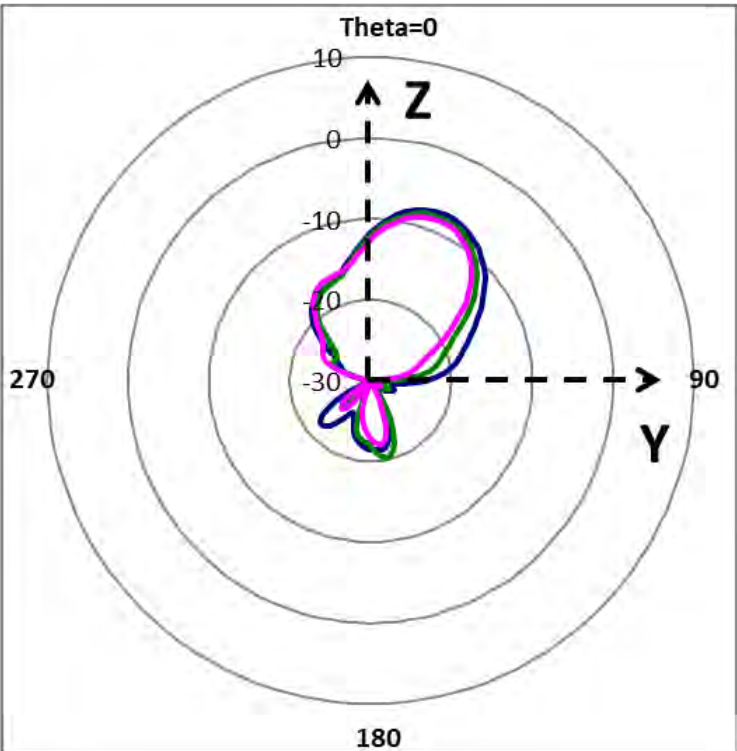
- 2401MHz_Gain_-10.64
- 2452MHz_Gain_-11.88
- 2484MHz_Gain_-12.89

YZ_Pol._Phi_Ant.14



- 2401MHz_Gain_2.11
- 2452MHz_Gain_2.99
- 2484MHz_Gain_3.18

YZ_Pol._Theta_Ant.14



- 2401MHz_Gain_-7.53
- 2452MHz_Gain_-8.00
- 2484MHz_Gain_-8.44

Appendix_Radiated Total Gain Result

Ant. Position : 5G/6G Ant.1

S150 (Theta,Az) (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi,Azimuth (°)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)	Response (dBi)		
0	0.27	-1.03	-3.22	-5.46	-6.88	-5.38	-3.19	-3.52	-3.73	-4.08	-5.27	-7.37	-8.83	-12.25	-14.45	-14.58	-12.57	-10.42	-8.48	-7.07	-6.72	-7.43	-9.32	-10.82	-12.21	-13.38	-12.71	-11.46	-10.83	-10.02	-8.57	-7.19	-6.52	-6.74	-7.38	-7.38		
5	0.27	-1.03	-3.18	-5.27	-6.48	-4.10	-3.08	-2.73	-2.89	-3.28	-4.07	-5.93	-8.38	-10.07	-10.74	-10.98	-10.93	-10.82	-9.98	-9.18	-8.88	-7.18	-9.56	-11.01	-13.01	-12.11	-12.62	-12.87	-11.47	-10.57	-9.83	-8.32	-7.12	-6.57	-6.83	-7.48	-7.38	
10	0.27	-1.03	-3.11	-5.04	-5.13	-3.76	-2.72	-2.48	-2.48	-2.82	-3.82	-5.66	-8.31	-9.96	-10.13	-10.58	-10.74	-9.48	-8.67	-8.88	-7.07	-7.78	-10.93	-14.62	-12.41	-10.82	-11.56	-12.18	-11.42	-10.34	-9.20	-7.97	-6.98	-6.58	-6.93	-7.53	-7.38	
15	0.27	-1.01	-3.01	-4.78	-4.83	-3.56	-2.57	-2.26	-2.33	-2.61	-3.46	-5.22	-7.32	-9.38	-9.56	-10.01	-9.86	-7.70	-6.88	-6.98	-5.14	-6.16	-10.80	-13.62	-11.13	-10.07	-10.97	-11.72	-11.32	-10.28	-9.08	-7.84	-6.82	-6.48	-7.03	-7.61	-7.38	
20	0.27	-0.98	-2.88	-4.54	-4.58	-3.45	-2.55	-2.30	-2.38	-2.54	-3.04	-4.27	-5.85	-7.71	-8.00	-8.20	-8.00	-6.00	-5.23	-5.11	-3.28	-4.32	-10.07	-11.40	-11.19	-10.71	-10.74	-10.98	-11.08	-10.58	-9.79	-7.47	-6.88	-6.61	-7.14	-7.68	-7.38	
25	0.27	-0.94	-2.75	-4.36	-4.42	-3.43	-2.63	-2.44	-2.53	-2.53	-3.22	-4.20	-5.88	-8.27	-8.88	-8.56	-8.42	-6.07	-4.53	-4.88	-2.68	-3.69	-9.81	-10.98	-12.43	-11.88	-10.19	-9.81	-10.58	-10.58	-9.90	-7.33	-6.88	-6.65	-7.27	-7.38		
30	0.27	-0.90	-2.61	-4.08	-4.21	-3.50	-2.88	-2.73	-2.58	-2.25	-2.28	-2.82	-3.53	-5.58	-6.87	-7.38	-7.88	-4.70	-3.46	-3.76	-1.56	-2.78	-10.05	-14.88	-12.85	-12.01	-9.84	-10.07	-10.97	-10.20	-7.38	-6.81	-6.72	-7.39	-7.84	-7.38		
35	0.27	-0.86	-2.46	-3.88	-4.25	-3.62	-3.00	-2.91	-2.68	-2.18	-2.18	-2.68	-3.41	-5.35	-6.38	-6.23	-6.54	-3.34	-2.35	-2.56	-0.36	-1.56	-9.86	-13.62	-13.00	-10.81	-9.81	-9.01	-9.27	-11.58	-10.82	-7.64	-6.83	-7.03	-7.82	-7.38		
40	0.27	-0.78	-2.32	-3.72	-4.23	-3.88	-3.32	-3.25	-3.38	-3.23	-2.36	-1.38	-0.83	-0.85	-0.58	-0.68	-0.36	-1.62	-1.15	-1.10	-0.93	-0.18	-0.84	-11.62	-10.98	-14.53	-9.21	-8.26	-10.11	-12.18	-10.08	-7.73	-6.81	-6.86	-7.67	-7.98	-7.38	
45	0.27	-0.73	-2.18	-3.57	-4.22	-3.88	-3.67	-3.72	-3.88	-3.98	-2.78	-1.48	-0.90	-1.13	-0.98	-0.41	-0.67	-2.01	-1.53	-1.48	-0.27	-0.64	-10.51	-12.81	-17.52	-15.46	-10.57	-9.48	-11.19	-13.02	-10.78	-7.88	-6.86	-7.12	-7.82	-8.04	-7.38	
50	0.27	-0.67	-2.05	-3.44	-4.28	-4.17	-4.08	-4.31	-4.77	-4.74	-3.38	-1.85	-1.58	-2.07	-1.71	-0.87	-1.17	-2.68	-4.08	-3.68	-2.47	-11.44	-11.88	-18.84	-12.07	-13.71	-12.88	-11.58	-11.88	-13.08	-10.48	-7.94	-7.85	-7.28	-7.86	-8.08	-7.38	
55	0.27	-0.61	-1.93	-3.31	-4.15	-4.28	-4.48	-4.82	-4.80	-5.00	-3.48	-2.25	-2.36	-2.28	-1.10	-0.78	-2.95	-4.84	-4.78	-4.84	-3.81	-4.25	-11.73	-18.86	-17.62	-13.00	-10.81	-9.81	-9.01	-9.27	-11.58	-10.82	-7.64	-6.83	-7.03	-7.82	-7.38	
60	0.27	-0.55	-1.80	-3.17	-4.08	-4.28	-4.58	-5.38	-5.25	-5.62	-4.68	-3.07	-2.86	-2.41	-2.48	-1.12	-3.31	-2.75	-3.75	-4.28	-3.88	-5.58	-7.58	-19.80	-17.58	-14.88	-14.88	-17.82	-17.82	-13.78	-12.72	-9.61	-9.10	-9.55	-8.18	-8.15	-7.38	
65	0.27	-0.48	-1.68	-3.03	-3.91	-4.14	-4.58	-5.48	-5.48	-6.37	-4.24	-2.88	-3.11	-3.50	-2.58	-1.22	-3.28	-2.68	-3.93	-4.88	-5.48	-4.74	-6.31	-8.27	-17.40	-18.14	-18.01	-20.83	-18.46	-12.88	-11.71	-9.38	-7.86	-7.64	-8.27	-8.14	-7.38	
70	0.27	-0.41	-1.56	-2.88	-3.71	-3.88	-4.15	-5.08	-4.84	-5.56	-4.44	-3.38	-3.18	-3.58	-2.78	-1.44	-3.40	-2.82	-4.85	-5.58	-6.31	-6.87	-8.62	-9.86	-17.36	-18.82	-18.82	-20.83	-18.88	-11.74	-9.47	-7.84	-7.88	-8.88	-8.38	-8.15	-7.38	
75	0.27	-0.35	-1.44	-2.78	-3.58	-3.88	-4.08	-5.02	-4.88	-5.88	-4.68	-3.68	-3.48	-3.88	-3.08	-1.45	-3.44	-3.21	-5.15	-5.72	-6.14	-6.88	-7.83	-9.18	-18.48	-19.57	-19.57	-21.81	-19.42	-10.48	-8.78	-7.88	-7.98	-8.28	-8.15	-7.38		
80	0.27	-0.28	-1.32	-2.65	-3.17	-3.50	-3.61	-4.58	-4.38	-5.38	-4.18	-3.18	-2.98	-3.38	-2.58	-1.06	-3.48	-3.06	-4.86	-5.37	-5.58	-7.28	-9.24	-10.25	-18.58	-19.85	-19.85	-21.81	-19.17	-12.24	-9.47	-8.86	-7.88	-8.23	-8.08	-7.38		
85	0.27	-0.22	-1.19	-2.28	-2.88	-2.88	-2.44	-2.53	-2.61	-3.68	-2.97	-1.38	-1.68	-1.83	-0.58	-1.15	-2.87	-4.03	-4.11	-4.88	-6.64	-7.55	-7.28	-7.78	-10.72	-12.62	-13.11	-13.01	-15.35	-7.91	-6.88	-6.58	-6.88	-7.85	-8.13	-8.03	-7.38	
90	0.27	-0.15	-1.06	-2.08	-2.53	-2.31	-1.84	-1.78	-1.68	-1.17	-0.48	-0.18	-0.48	-0.58	-0.02	-0.30	-2.53	-3.38	-3.82	-4.03	-7.28	-8.14	-7.25	-7.33	-10.22	-12.12	-11.58	-10.87	-6.81	-6.01	-4.20	-4.48	-7.84	-7.58	-8.00	-7.38		
95	0.27	-0.09	-0.92	-1.81	-2.18	-1.94	-1.52	-1.23	-0.95	-0.41	0.15	0.37	0.17	0.12	0.43	0.34	0.74	-2.22	-2.84	-3.34	-5.18	-6.22	-6.85	-7.24	-7.07	-6.84	-11.84	-12.02	-7.35	-6.58	-6.85	-6.48	-7.11	-7.58	-7.84	-7.88	-7.38	
100	0.27	-0.03	-0.78	-1.56	-1.88	-1.87	-1.18	-0.83	-0.46	0.10	0.67	0.88	0.85	0.57	0.94	0.71	0.48	-1.78	-1.18	-1.02	-2.48	-3.82	-4.83	-4.98	-4.67	-3.82	-9.58	-7.56	-6.58	-6.18	-6.71	-6.71	-7.22	-7.25	-7.48	-7.78	-7.38	
105	0.27	0.09	-0.51	-1.01	-0.98	-0.72	-0.58	-0.37	-0.07	0.48	0.92	0.83	0.40	0.42	0.88	0.68	-0.52	-1.78	-1.23	-1.08	-2.58	-3.86	-4.93	-4.87	-4.55	-3.84	-8.28	-6.58	-5.23	-4.14	-6.07	-6.07	-7.23	-7.11	-7.38	-7.61	-7.38	
110	0.27	0.15	-0.39	-0.74	-0.58	-0.24	-0.11	0.14	0.01	0.84	0.83	0.83	0.89	0.15	0.88	0.51	-0.74	-1.85	-2.25	-2.18	-3.87	-4.78	-5.86	-6.84	-6.81	-4.87	-6.88	-5.84	-4.61	-3.88	-5.21	-4.12	-7.01	-7.21	-6.97	-7.13	-7.53	-7.38
115	0.27	0.28	-0.27	-0.58	-0.18	0.24	0.33	0.16	0.17	0.53	0.75	0.99	-0.23	-0.15	0.42	-0.18	-1.15	-2.28	-2.48	-3.37	-5.91	-6.81	-6.81	-6.88	-6.75	-4.73	-6.48	-4.48	-3.44	-2.58	-4.18	-4.28	-7.08	-7.17	-6.85	-6.88	-7.42	-7.38
120	0.27	0.25	-0.17	-0.28	0.18	0.76	0.79	0.53	0.42	0.68	0.74	0.22	-0.48	-0.36	0.18	-0.18	-1.53	-2.14	-2.68	-3.83	-6.18	-6.88	-6.38	-6.88	-6.78	-4.82	-5.38	-3.91	-3.88	-4.87	-4.27	-5.88	-7.12	-6.78	-6.85	-7.33	-7.38	
130	0.27	0.29	-0.08	-0.11	0.48	1.18	1.23	0.82	0.74	0.88	0.83	0.28	-0.48	-0.38	0.08	-0.46	-1.78	-2.57	-2.87	-4.68	-6.07	-6.33	-7.84	-7.78	-6.24	-5.78	-4.11	-2.83	-1.17	-0.58	-0.07	-3.88	-5.68	-6.74	-7.24	-7.38		
135	0.27	0.33	-0.01	0.02	0.78	1.41	1.60	1.38	1.07	1.13	0.88	0.32	-0.31	-0.18	0.08	-0.46	-1.62	-2.15	-2.28	-3.18	-5.25	-6.95	-6.86	-6.08	-6.42	-4.47	-2.97	-2.08	-0.23	-0.46	-0.78	-0.88	-2.07	-4.68	-6.67	-7.17	-7.38	
140	0.27	0.37	0.05	0.03	0.83	1.61	1.85	1.68	1.37	1.39	1.21	0.59	0.08	0.24	0.41	-0.12	-1.05	-1.30	-1.32	-2.38	-4.48	-6.48	-6.48	-5.84	-6.44	-4.44	-2.16	-1.58	-0.20	-0.57	-0.38	-0.75	-1.68	-4.67	-6.68	-7.08	-7.38	
145	0.27	0.40	0.08	0.11	0.88	1.68	1.97	1.78	1.63	1.67	1.52	1.08	0.44	0.68	0.58	0.47	-0.23	-1.28	-1.35	-2.48	-4.42	-6.48	-6.48	-5.88	-6.48	-4.48	-2.16	-1.58	-0.44	-0.44	-0.78	-1.68	-4.68	-6.68	-7.08	-7.38		
150	0.27	0.43	0.18	0.08	0.75	1.61	1.84	1.84	1.78	1.94	1.88	1.58	1.27	1.58	1.61	1.14	0.61	-0.74	-1.23	-1.28	-2.84	-3.13	-5.14	-6.84	-6.48	-5.88	-4.48	-1.11	-0.58	-0.82	-0.78	-0.88	-1.25	-4.68	-6.68	-7.08	-7.38	
155	0.27	0.46	0.11	0.02	0.65	1.44	1.77	1.73	1.83	1.94	2.23	1.88	1.82	2.04	2.13	1.71	1.31	1.82	-1.13	-1.08	-2.28	-2.58	-4.98	-6.73	-6.87	-6.55	-5.84	-4.28	-4.68	-5.23	-4.14	-4.68	-4.07	-7.23	-7.11	-7.38	-7.61	-7.38
160	0.27	0.48	0.11	0.02	0.65	1.44	1.77	1.73	1.83	1.94	2.22	2.45	2.28	2.15	2.36	2.47	2.11	1.88	2.04	2.07	-1.87	-0.88	-1.69	-1.58	-1.11	-1.86	-1.28	-1.33	-1.08	-1.28	-2.38	-4.47	-6.87	-6.88	-6.55	-6.88	-7.38	
165	0.27	0.58	0.18	-0.18	0.24	0.88	1.15	1.15	1.51	2.16	2.48	2.35	2.22	2.48	2.65	2.39	2.13	2.34	2.38	1.48	-0.12	-1.03	-0.78	-0.38	-0.47	-0.98	-1.11	-0.83	-1.12	-2.28	-4.38	-6.43	-7.64	-7.07	-6.56	-6.84	-7.38	
170	0.27	0.52	0.18	-0.27	0.03	0.81	0.88	0.16	1.18	1.95	2.35	2.23	2.13	2.46	2.78	2.65	2.36																					

Ph.Antc	Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB)		Response (dB	
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Theta (Arc)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi (Arc)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
1	1.37	1.01	0.17	-1.40	-2.35	-4.00	-1.06	0.74	2.52	3.47	3.47	3.10	2.62	1.64	-0.51	-0.01	-2.78	-4.22	-6.09	-6.84	-10.03	-10.26	-10.40	-10.36	-10.03	-9.373	-8.336	-7.222	-6.079	-4.975	-4.217	-3.915	-3.32	-4.61	-3.34	-4.72		
5	1.37	1.02	0.17	-1.40	-2.36	-4.00	-0.96	0.93	2.66	3.53	3.40	2.96	2.44	1.52	-0.22	-0.20	-3.23	-4.79	-6.64	-6.90	-10.42	-11.06	-11.05	-10.65	-9.852	-8.647	-7.440	-6.245	-5.074	-4.211	-3.900	-3.22	-4.62	-3.36	-4.72			
10	1.37	1.03	0.17	-1.40	-2.36	-4.00	-0.86	1.12	2.76	3.62	3.24	2.76	2.24	1.32	-0.26	-0.26	-3.46	-5.04	-6.90	-7.16	-10.65	-11.29	-11.28	-10.88	-10.07	-8.862	-7.655	-6.448	-5.283	-4.430	-4.017	-3.306	-4.61	-3.36	-4.72			
15	1.37	1.05	0.34	-1.23	-2.56	-4.06	-1.24	0.50	2.19	3.03	2.68	2.15	0.95	0.03	-0.91	-0.76	-5.11	-6.94	-8.80	-9.29	-12.44	-13.08	-13.07	-12.67	-11.86	-10.65	-9.448	-8.241	-7.034	-5.869	-5.017	-4.203	-3.513	-4.61	-3.36	-4.72		
20	1.37	1.08	0.32	-1.00	-2.24	-4.40	-1.58	-0.06	1.58	2.51	2.32	1.15	-0.05	-0.58	-0.66	-1.39	-2.94	-3.82	-5.71	-6.81	-10.01	-10.65	-10.64	-10.24	-9.43	-8.22	-7.015	-5.808	-4.601	-3.434	-3.551	-3.31	-4.60	-3.41	-4.72			
25	1.37	1.11	0.40	-0.73	-1.87	-4.27	-1.86	-0.70	0.82	1.80	2.00	1.15	-0.06	-0.34	0.22	-0.26	-4.01	-5.29	-6.40	-7.44	-10.64	-11.28	-11.28	-10.88	-10.07	-8.862	-7.655	-6.448	-5.283	-4.430	-4.017	-3.306	-4.61	-3.36	-4.72			
30	1.37	1.15	0.65	-0.46	-1.36	-3.95	-1.94	-1.22	-0.06	1.18	1.58	1.14	0.33	0.26	0.93	1.15	0.58	-0.15	0.32	0.94	0.95	-1.73	-2.43	-3.09	-3.22	-3.11	-2.68	-1.94	-1.32	-0.63	-0.77	-1.034	-1.82	-1.68	-1.67	-1.72		
35	1.37	1.20	0.82	-0.15	-0.84	-3.64	-2.14	-1.50	-0.34	0.45	1.05	1.51	0.61	0.51	1.29	1.49	0.85	0.15	0.48	0.95	0.95	-1.73	-2.43	-3.09	-3.22	-3.11	-2.68	-1.94	-1.32	-0.63	-0.77	-1.034	-1.82	-1.68	-1.67	-1.72		
40	1.37	1.24	0.85	0.28	-0.46	-3.06	-1.55	-1.37	-0.71	-0.14	0.64	1.60	0.97	0.10	0.17	0.45	-0.58	-1.30	-1.47	-1.77	-3.62	-2.66	-3.07	-3.42	-3.62	-3												
45	1.37	1.30	1.00	0.59	0.04	-2.66	-1.15	-1.00	-0.03	-0.12	-0.08	-0.22	-0.10	0.17	0.45	-0.03	-0.80	-2.77	-3.02	-3.42	-4.04	-3.02	-4.00	-3.17	-3.78	-2.85	-2.14	-1.44	-1.04	-0.79	-1.017	-1.87	-1.73	-1.68	-1.67	-1.72		
50	1.37	1.35	1.18	0.80	-0.40	-2.18	-0.79	-0.78	-0.43	-0.71	-0.48	-0.25	-0.22	0.00	-0.16	-0.56	-2.56	-3.81	-3.95	-4.30	-4.91	-4.04	-5.06	-4.26	-3.78	-2.85	-2.14	-1.44	-1.04	-0.79	-1.017	-1.87	-1.73	-1.68	-1.67	-1.72		
55	1.37	1.41	1.30	1.10	-0.24	-1.68	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	
60	1.37	1.46	1.47	1.46	1.23	-0.04	-0.16	-0.36	-0.34	-0.71	-0.38	-0.58	-0.36	-0.43	-0.57	-0.02	-3.40	-5.01	-4.48	-4.34	-4.21	-4.03	-3.83	-3.63	-3.43	-3.23	-3.03	-2.83	-2.63	-2.43	-2.23	-2.03	-1.83	-1.63	-1.43	-1.23	-1.03	
65	1.37	1.52	1.62	1.70	1.57	0.99	-0.16	-0.28	-0.48	-1.50	-1.03	-0.13	-0.78	-0.58	-1.18	-0.70	-4.34	-5.90	-5.25	-5.36	-4.97	-4.51	-4.05	-3.59	-3.13	-2.67	-2.21	-1.75	-1.29	-0.83	-0.37	-0.13	-0.14	-0.16	-0.18	-0.20	-0.22	
70	1.37	1.58	1.76	1.93	1.89	1.39	0.56	-0.09	-0.57	-1.61	-1.03	-0.41	-0.78	-0.64	-1.41	-0.79	-5.71	-7.34	-6.48	-6.08	-5.64	-5.20	-4.76	-4.32	-3.88	-3.44	-2.99	-2.55	-2.11	-1.67	-1.23	-0.79	-0.35	-0.10	-0.11	-0.13	-0.15	
75	1.37	1.60	1.78	1.98	2.14	1.81	1.06	-0.27	-0.37	-1.31	-0.93	-0.54	-0.94	-0.82	-1.01	-0.71	-8.02	-9.15	-8.03	-7.53	-7.03	-6.54	-6.04	-5.54	-5.04	-4.54	-4.04	-3.54	-3.04	-2.54	-2.04	-1.54	-1.04	-0.54	-0.04	-0.05	-0.07	
80	1.37	1.63	1.82	2.00	2.18	1.84	1.16	-0.40	-0.35	-1.06	-0.85	-0.68	-1.08	-0.97	-0.79	-0.61	-10.32	-10.98	-9.58	-9.08	-8.58	-8.08	-7.58	-7.08	-6.58	-6.08	-5.58	-5.08	-4.58	-4.08	-3.58	-3.08	-2.58	-2.08	-1.58	-1.08	-0.58	-0.08
85	1.37	1.74	2.14	2.50	2.69	2.59	1.24	-1.49	-0.87	-0.29	-0.56	-1.06	-1.36	-1.46	-1.22	-0.96	-12.07	-13.07	-11.48	-10.87	-10.26	-9.65	-9.04	-8.43	-7.82	-7.21	-6.60	-6.00	-5.39	-4.78	-4.17	-3.56	-2.95	-2.34	-1.73	-1.12	-0.51	-0.01
90	1.37	1.79	2.25	2.65	2.80	2.80	2.00	-2.00	-1.52	1.06	0.53	-0.40	-1.78	-2.08	-2.37	-2.61	-4.24	-4.74	-3.50	-3.08	-2.62	-2.18	-1.74	-1.30	-0.86	-0.42	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	
95	1.37	1.84	2.35	2.77	3.03	3.10	2.39	2.47	1.93	1.53	1.22	0.57	-0.70	-1.10	-1.37	-1.61	-4.83	-5.79	-4.40	-3.76	-3.14	-2.51	-1.88	-1.25	-0.62	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01		
100	1.37	1.90	2.42	2.82	3.12	3.12	2.32	2.32	1.92	1.52	1.22	0.57	-0.70	-1.10	-1.37	-1.61	-5.08	-6.14	-4.65	-4.01	-3.38	-2.75	-2.12	-1.49	-0.86	-0.23	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01		
105	1.37	1.92	2.52	2.96	3.19	3.16	2.26	2.47	1.79	1.22	0.85	0.53	-0.83	-1.27	-1.64	-1.68	-4.48	-5.15	-3.68	-2.98	-2.27	-1.63	-1.00	-0.37	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
110	1.37	1.96	2.59	3.02	3.15	3.02	2.09	2.09	1.31	0.64	0.29	0.37	-1.09	-1.36	-1.51	-1.58	-4.82	-5.42	-3.85	-3.02	-2.21	-1.50	-0.87	-0.24	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
115	1.37	1.98	2.64	3.05	3.09	2.88	2.15	1.08	-0.03	-0.05	-0.58	-1.59	-1.33	-1.40	-1.45	-1.47	-5.00	-5.47	-4.00	-3.02	-2.10	-1.22	-0.59	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
120	1.37	2.01	2.69	3.07	3.09	2.62	1.81	0.80	0.13	-0.03	-0.46	-1.77	-1.48	-1.42	-1.40	-1.40	-5.00	-5.45	-4.00	-3.02	-2.10	-1.22	-0.59	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
125	1.37	2.03	2.70	3.07	2.98	2.42	1.54	0.71	0.16	-0.17	-0.54	-1.90	-1.54	-1.44	-1.39	-1.39	-5.00	-5.45	-4.00	-3.02	-2.10	-1.22	-0.59	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
130	1.37	2.04	2.75	3.07	2.75	1.92	1.00	0.42	-0.17	-0.35	-1.03	-1.94	-1.64	-1.40	-1.30	-1.30	-5.00	-5.45	-4.00	-3.02	-2.10	-1.22	-0.59	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
135	1.37	2.04	2.76	3.05	2.43	1.63	0.44	0.68	0.76	0.40	-0.82	-2.00	-1.68	-1.40	-1.30	-1.30	-5.00	-5.45	-4.00	-3.02	-2.10	-1.22	-0.59	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
140	1.37	2.04	2.76	3.02	2.52	1.50	0.89	1.19	1.57	1.26	0.64	-1.98	-1.67	-1.37	-1.32	-1.30	-5.00	-5.45	-4.00	-3.02	-2.10	-1.22	-0.59	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
145	1.37	2.03	2.76	3.00	2.44	1.40	1.12	1.82	2.36	2.04	0.95	-2.09	-1.78	-1.43	-1.40	-1.39	-5.00	-5.45	-4.00	-3.02	-2.10	-1.22	-0.59	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
150	1.37	2.03	2.76	3.00	2.44	1.40	1.12	1.82	2.36	2.04	0.95	-2.09	-1.78	-1.43	-1.40	-1.39	-5.00	-5.45	-4.00	-3.02	-2.10	-1.22	-0.59	-0.02	0.38	-0.17	-0.27	-0.27	-0.16	-0.10	-0.05	-0.02	-0.01	-0.01	-0.01			
155	1.37	2.00	2.71	2.96	2.42	1.41	1.00	3.05	3.66	3.35	2.76	2.84	2.31	1.31	0.26	0.68	-0.58	-1.00	-0.58	-1.34	-2.76	-4.01	-4.60	-5.52	-6.40	-7.27	-8.07	-8.80	-9.50	-10.00	-10.40	-10.80	-11.20	-11.60	-12.00			
160	1.37	1.97	2.68	2.95	2.48	1.08	2.36	3.50	4.20	3.93	3.55	3.08	2.45	1.47	0.31	0.95	0.00	-0.38	-1.07	-2.40	-3.83	-5.05	-6.07	-6.90	-7.67	-8.40	-9.00	-9.50	-10.00	-10.40	-10.80	-11.20	-11.60	-12.00				
165	1.37	1.94	2.64	2.96	2.41	1.01	2.83	4.00	4.68	4.44	4.14	3.44	2.74	1.43	0.21	2.00	1.00	-0.40	-1.07	-2.40	-3.83	-5.05	-6.07	-6.90	-7.67	-8.40	-9.00	-9.50	-10.00	-10.40	-10.80	-11.20	-11.60	-12.00				
170	1.37	1.94	2.64	2.96	2.41	1.01	2.83	4.00	4.68	4.44	4.14	3.44	2.74	1.43	0.21	2.00	1.00	-0.40	-1.07	-2.40	-3.83	-5.05	-6.07	-6.90	-7.67	-8.40	-9.00	-9.50	-10.00	-10.40	-10.80	-11.20	-11.60	-12.00				
175	1.37	1.86	2.53	2.98	2.37	0.94	3.66	4.72	5.24	5.65	4.64	4.00	3.34	2.58	1.02	1.11	-0.02																					

[illegible]

Ant. Position : 5G/6G Ant.2

5150 Thz Antc	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180		
Phy Antc	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)			
5	-0.04	-0.72	-1.36	-1.86	-2.13	-2.23	0.50	0.91	1.29	1.58	1.78	1.89	2.77	3.24	3.14	2.53	1.76	0.93	0.24	-1.28	-1.41	-1.58	-1.45	-1.70	-1.44	-1.15	-0.84	-0.28	-0.47	-0.51	-0.74	-0.91	-0.85	-0.52	-0.77	-0.53	-0.44	-0.76	
10	-0.04	-0.68	-1.18	-1.44	-1.23	-0.81	0.21	0.64	0.91	1.62	2.42	2.93	2.81	2.40	1.75	1.22	0.67	-0.59	-1.02	-1.48	-1.68	-1.48	-1.28	-1.00	-0.68	-0.18	-0.10	-0.18	-0.78	-1.01	-0.82	-0.78	-0.89	-0.78	-0.59	-0.44	-0.76		
15	-0.04	-0.67	-1.06	-1.18	-0.86	-0.70	0.16	0.47	1.12	1.82	2.46	2.80	2.27	1.76	1.36	0.96	-0.16	-0.86	-1.30	-1.45	-1.08	-0.74	-0.48	-0.18	-0.12	-0.10	-0.12	-0.78	-0.85	-0.62	-0.52	-0.63	-0.68	-0.58	-0.46	-0.76			
20	-0.04	-0.40	-0.81	-1.02	-0.86	-0.62	-0.35	-0.13	0.01	0.60	1.30	2.01	2.35	2.05	1.62	1.20	0.36	0.11	-1.47	-2.50	-2.82	-1.95	-1.21	-0.64	-0.16	-0.14	-0.16	-0.78	-1.14	-1.05	-0.84	-0.44	-0.11	-0.05	-0.36	-0.76			
25	-0.04	-0.41	-0.62	-0.77	-0.79	-0.64	-0.58	-0.46	-0.36	0.20	1.03	1.77	2.13	2.02	1.61	1.25	0.32	0.20	-0.91	-1.39	-2.76	-1.54	-1.15	-0.68	-0.18	-0.14	-0.16	-0.78	-1.14	-1.05	-0.84	-0.44	-0.11	-0.05	-0.36	-0.76			
30	-0.04	-0.33	-0.44	-0.52	-0.58	-0.61	-0.66	-0.73	-0.57	0.09	1.80	2.46	2.41	2.02	1.58	1.12	0.37	-0.73	-1.79	-3.02	-1.97	-1.34	-0.86	-0.38	-0.12	-0.11	-0.16	-0.78	-1.14	-1.05	-0.84	-0.44	-0.11	-0.05	-0.36	-0.76			
35	-0.04	-0.38	-0.27	-0.27	-0.35	-0.53	-0.76	-0.89	-0.62	0.54	1.44	2.47	3.01	3.00	2.53	2.11	1.49	0.59	-0.68	-2.08	-3.59	-1.93	-1.17	-0.72	-0.36	-0.10	-0.14	-0.78	-1.14	-1.05	-0.84	-0.44	-0.11	-0.05	-0.36	-0.76			
40	-0.04	-0.37	-0.26	-0.26	-0.30	-0.49	-0.76	-0.89	-0.62	0.54	1.44	2.47	3.01	3.00	2.53	2.11	1.49	0.59	-0.68	-2.08	-3.59	-1.93	-1.17	-0.72	-0.36	-0.10	-0.14	-0.78	-1.14	-1.05	-0.84	-0.44	-0.11	-0.05	-0.36	-0.76			
45	-0.04	-0.31	-0.15	0.20	0.15	-0.21	-0.86	-1.12	-0.65	0.54	1.89	2.50	3.34	3.32	2.75	2.12	1.30	0.80	-1.68	-3.57	-4.86	-1.41	-0.58	-0.61	-0.74	-0.70	-0.80	-0.80	-0.22	-0.53	-1.34	-1.24	-1.54	-0.82	-0.41	-0.33	-0.76		
50	-0.04	-0.06	0.18	0.40	0.40	0.02	-0.70	-1.22	-0.84	0.33	1.60	2.46	2.73	2.46	1.85	1.16	0.16	-1.19	-3.08	-4.66	-1.41	-0.58	-0.61	-0.74	-0.70	-0.80	-0.80	-0.22	-0.53	-1.34	-1.24	-1.54	-0.82	-0.41	-0.33	-0.76			
55	-0.04	0.01	0.30	0.57	0.62	0.26	-0.54	-1.31	-1.20	-0.20	0.90	1.53	1.95	1.84	0.20	-0.78	-1.50	-3.42	-5.30	-4.72	-1.06	-0.56	-0.56	-0.73	-0.80	-1.14	-1.12	-0.82	-1.15	-1.03	-0.87	-0.64	-1.02	-1.35	-1.16	-0.75	-0.34	-0.76	
60	-0.04	0.01	0.29	0.48	0.57	0.20	-0.50	-1.31	-1.20	-0.20	0.90	1.53	1.95	1.84	0.20	-0.78	-1.50	-3.42	-5.30	-4.72	-1.06	-0.56	-0.56	-0.73	-0.80	-1.14	-1.12	-0.82	-1.15	-1.03	-0.87	-0.64	-1.02	-1.35	-1.16	-0.75	-0.34	-0.76	
65	-0.04	0.12	0.47	0.81	0.92	0.01	-1.38	-2.31	-2.30	-1.04	0.75	1.28	2.38	2.34	-0.28	-0.76	-0.88	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-1.18	-0.76	
70	-0.04	0.16	0.63	0.88	1.04	0.04	-1.06	-1.30	-2.86	-3.80	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-1.28	-1.44	-0.76	
75	-0.04	0.19	0.58	0.91	1.07	0.88	-0.15	-1.28	-2.34	-3.36	-0.84	-0.78	-0.74	-0.84	-1.06	-1.07	-1.16	-1.30	-1.43	-1.18	-1.02	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.76
80	-0.04	0.23	0.58	0.89	1.04	0.84	0.14	-1.28	-2.34	-3.36	-0.84	-0.78	-0.74	-0.84	-1.06	-1.07	-1.16	-1.30	-1.43	-1.18	-1.02	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.76
85	-0.04	0.25	0.58	0.89	1.04	0.84	0.14	-1.28	-2.34	-3.36	-0.84	-0.78	-0.74	-0.84	-1.06	-1.07	-1.16	-1.30	-1.43	-1.18	-1.02	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.78	-0.80	-0.76
90	-0.04	0.29	0.53	0.65	0.61	0.26	-0.58	-1.36	-2.82	-3.86	-2.83	-2.61	-2.82	-2.75	-3.01	-3.54	-4.44	-5.51	-6.14	-4.00	-5.59	-5.40	-5.61	-4.00	-4.46	-4.46	-4.28	-5.44	-5.72	-4.28	-4.46	-4.52	-4.46	-4.37	-4.36	-4.76	-0.76		
95	-0.04	0.31	0.49	0.52	0.38	0.06	-0.97	-2.25	-3.10	-2.71	-1.74	-1.03	-0.78	-0.48	-0.68	-1.09	-1.58	-2.48	-3.65	-4.50	-4.40	-4.33	-4.28	-4.38	-4.06	-3.58	-3.54	-3.50	-4.44	-5.24	-4.46	-4.70	-4.16	-4.25	-3.99	-4.11	-4.37	-0.76	
100	-0.04	0.33	0.46	0.37	0.12	-0.44	-1.53	-2.38	-3.61	-1.65	-0.46	0.24	0.48	0.48	0.23	0.04	-0.42	-1.23	-2.38	-3.23	-3.52	-3.48	-3.68	-3.18	-2.46	-2.46	-2.46	-3.58	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-0.76	
105	-0.04	0.34	0.41	0.34	-0.22	-0.56	-2.27	-1.87	-0.64	-0.54	0.54	1.29	1.42	1.31	1.06	0.72	0.26	-0.48	-1.41	-2.33	-3.07	-3.15	-3.41	-3.82	-3.45	-3.44	-3.46	-4.44	-4.46	-5.36	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-0.76	
110	-0.04	0.36	0.38	0.13	-0.32	-0.92	-1.57	-1.07	-0.03	0.27	1.37	2.00	2.17	2.02	1.68	1.23	0.68	-0.04	-0.82	-1.77	-2.37	-2.68	-2.83	-3.31	-3.88	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-0.76	
115	-0.04	0.38	0.37	0.06	-0.43	-0.97	-1.36	-1.16	-0.23	0.99	2.00	2.50	2.74	2.58	2.19	1.65	1.00	0.24	-0.57	-1.31	-1.86	-2.22	-2.41	-3.17	-3.88	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-4.46	-0.76	
120	-0.04	0.38	0.38	0.05	-0.42	-0.95	-0.97	-0.66	-0.38	0.94	2.47	2.38	2.88	2.46	1.95	1.14	0.38	-0.38	-0.82	-1.23	-1.66	-2.27	-3.18	-3.88	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-0.76	
125	-0.04	0.41	0.42	0.18	-0.38	-0.95	-0.76	-0.48	-0.18	1.28	2.76	2.36	2.86	2.36	1.76	0.96	-0.16	-0.48	-1.28	-1.68	-2.48	-3.48	-4.18	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-4.78	-0.76	
130	-0.04	0.45	0.48	0.23	-0.08	-0.25	-0.15	0.25	0.89	1.68	2.18	2.48	2.80	2.24	1.76	1.13	0.46	-0.01	-0.24	-0.32	-0.59	-1.33	-2.63	-3.41	-4.38	-4.53	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-0.76
135	-0.04	0.48	0.57	0.41	0.21	0.12	0.20	0.46	0.87	1.34	1.68	1.82	1.72	1.44	1.01	0.46	-0.06	-0.41	-0.54	-0.88	-1.86	-3.58	-4.38	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-4.58	-0.76
140	-0.04	0.51	0.67	0.62	0.52	0.40	0.61	0.61	0.78	0.96	1.58	1.88	0.85	0.40	0.07	-0.33	-0.68	-0.82	-0.96	-1.46	-2.68	-4.43	-4.38	-4.58	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-0.76
145	-0.04	0.53	0.79	0.65	0.53	0.40	0.77	0.73	0.68	0.97	0.99	1.58	0.10	0.12	0.18	0.09	-0.22	-0.65	-1.30	-2.38	-3.58	-4.43	-4.38	-4.58	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-0.76
150	-0.04	0.58	0.94	0.81	0.68	0.50	1.00	1.00	1.00	1.00	1.00	1.00	0.10	0.12	0.18	0.09	-0.22	-0.65	-1.30	-2.38	-3.58	-4.43	-4.38	-4.58	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-4.57	-0.76
155	-0.04	0.62	1.04	1.29	1.36	1.30	1.18	0.93	0.48	-0.11	-0.62	-0.91	-0.84	-0.91	-0.57	0.73	0.38	-0.26	-0.86	-1.84	-2.74	-3.77	-4.21	-3.86	-3.51	-3.68	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-0.76
160	-0.04	0.65	1.17	1.49	1.54	1.40	1.30	0.94	0.32	-0.40	-1.10	-0.78	-0.89	0.54	0.71	0.32	-0.30	-0.78	-0.88	-1.15	-1.79	-2.61	-3.15	-3.20	-3.20	-3.54	-4.23	-5.08	-4.00	-3.98	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-4.44	-0.76	
165	-0.04	0.68	1.28	1.68	1.72	1.58	1.33	0.84	0.07	-0.71	-1.25	-1.46	-1.24	-0.58	0.05	0.19	-0.19	-0.70	-0.82	-0.70	-1.00	-1.30	-2.05	-2.05	-2.38	-3.44	-4.28	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-4.48	-0.76
170	-0.04	0.70	1.36	1.78	1.82	1.72	1.58	1.04</																															

5850 Theta(Angle)		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi(Angle)	Theta(Angle)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-1.46	-1.74	-0.82	0.45	1.42	2.10	2.62	3.00	3.27	3.52	3.73	3.81	3.82	3.21	2.77	2.58	2.56	2.06	1.32	-2.48	-3.81	-5.61	-8.21	-12.23	-17.17	-23.84	-32.01	-41.41	-51.80	-62.26	-72.25	-80.08	-82.63	-83.40	-82.50	-81.94	-82.55	-83.00	
5	-1.46	-1.82	-0.89	0.38	1.24	1.73	2.11	2.47	2.84	3.20	3.44	3.58	3.60	2.41	1.86	1.62	1.65	1.26	0.32	-3.19	-5.14	-7.68	-10.48	-13.96	-18.40	-23.48	-29.00	-35.00	-41.40	-48.00	-54.80	-60.80	-65.80	-68.80	-70.10	-69.80	-68.50	-66.00	
10	-1.46	-1.91	-0.96	0.31	1.09	1.43	1.71	1.97	2.23	2.50	2.72	2.86	2.91	1.70	1.07	0.82	0.84	0.54	0.14	-3.86	-6.32	-9.36	-12.86	-17.40	-22.40	-27.40	-32.40	-37.40	-42.40	-47.40	-51.40	-54.40	-56.40	-57.40	-57.10	-55.10	-52.10	-48.10	
15	-1.46	-1.93	-1.04	0.18	0.76	0.94	1.09	1.25	1.41	1.58	1.69	1.76	1.78	0.38	-0.88	-1.36	-1.14	-0.74	-0.17	-5.08	-8.27	-11.61	-15.36	-19.84	-24.40	-28.40	-31.40	-33.40	-34.40	-34.40	-33.40	-31.40	-28.40	-24.40	-19.40	-14.40	-10.40	-7.40	
20	-1.46	-1.97	-1.13	0.06	0.52	0.44	-0.28	-0.96	-1.42	-1.69	-1.82	-1.80	-1.73	-0.53	-2.22	-2.54	-2.55	-2.40	-2.13	-3.61	-5.43	-7.61	-10.19	-13.07	-16.16	-19.46	-22.86	-26.26	-29.46	-32.46	-35.46	-38.46	-41.46	-44.46	-47.46	-50.46	-53.46	-56.46	-59.46
25	-1.46	-2.01	-1.22	-0.07	0.33	-0.14	-1.01	-1.67	-2.15	-2.43	-2.58	-2.59	-2.48	-1.27	-2.79	-3.27	-3.24	-2.95	-2.55	-4.28	-6.73	-9.68	-13.05	-16.86	-20.86	-24.96	-29.06	-33.06	-36.86	-40.46	-43.86	-47.06	-50.06	-52.86	-55.46	-57.86	-60.06	-61.86	
30	-1.46	-2.04	-1.31	-0.14	0.25	-0.33	-1.38	-2.32	-2.59	-2.57	-2.41	-2.18	-1.86	-0.60	-2.47	-3.41	-3.52	-3.24	-2.76	-4.55	-6.49	-8.41	-11.02	-14.03	-17.44	-21.04	-24.84	-28.44	-31.84	-34.94	-37.74	-40.34	-42.74	-44.94	-46.84	-48.44	-49.74		
35	-1.46	-2.06	-1.40	-0.26	0.18	-0.51	-1.62	-2.27	-2.46	-2.26	-1.98	-1.68	-1.34	-0.10	-2.56	-3.60	-3.66	-3.36	-2.86	-4.76	-6.80	-8.80	-11.40	-14.40	-17.80	-21.40	-25.00	-28.40	-31.60	-34.60	-37.40	-40.00	-42.40	-44.60	-46.60	-48.40	-49.80	-50.80	
40	-1.46	-2.07	-1.47	-0.37	0.17	-0.69	-1.65	-2.19	-2.31	-2.06	-1.76	-1.46	-1.14	-0.34	-2.71	-3.75	-3.78	-3.48	-2.98	-4.88	-6.92	-8.92	-11.52	-14.52	-17.92	-21.52	-25.12	-28.42	-31.52	-34.42	-37.12	-39.62	-42.02	-44.22	-46.22	-47.92	-49.32	-50.32	
45	-1.46	-2.06	-1.53	-0.40	0.23	-0.21	-0.88	-1.65	-1.82	-1.71	-1.43	-1.13	-0.80	-0.77	-2.21	-3.00	-3.12	-2.80	-2.42	-4.63	-6.37	-7.97	-10.47	-13.32	-16.52	-19.82	-23.24	-26.44	-29.44	-32.24	-34.84	-37.24	-39.44	-41.44	-43.14	-44.54	-45.64	-46.34	
50	-1.46	-2.04	-1.56	-0.47	0.32	0.53	-0.28	-0.92	-1.63	-1.85	-1.71	-1.46	-1.14	-0.58	-2.58	-3.23	-3.00	-2.70	-2.17	-4.79	-6.13	-7.24	-9.63	-11.86	-13.97	-15.87	-17.46	-18.86	-19.96	-20.76	-21.26	-21.56	-21.76	-21.86	-21.86	-21.76	-21.56	-21.26	
55	-1.46	-2.01	-1.59	-0.50	0.40	0.81	-0.13	-0.77	-1.53	-1.73	-1.60	-1.38	-1.10	-0.42	-2.70	-3.26	-2.98	-2.62	-2.05	-4.72	-5.86	-6.77	-9.06	-11.29	-13.40	-15.30	-16.99	-18.39	-19.49	-20.39	-21.09	-21.59	-21.89	-22.09	-22.19	-22.19	-22.09	-21.89	
60	-1.46	-1.95	-1.51	-0.46	0.65	1.04	1.00	0.82	-0.58	-1.75	-2.05	-1.92	-1.62	-0.85	-3.02	-3.45	-3.05	-2.60	-2.03	-4.81	-5.66	-6.30	-8.50	-10.61	-12.44	-14.00	-15.29	-16.29	-17.09	-17.69	-18.19	-18.59	-18.89	-19.09	-19.19	-19.19	-19.09	-18.89	
65	-1.46	-1.88	-1.42	-0.37	0.65	1.25	1.25	0.83	-0.48	-1.72	-2.20	-2.33	-2.02	-1.04	-3.21	-3.62	-3.14	-2.51	-1.86	-4.78	-5.53	-6.17	-8.37	-10.48	-12.44	-14.16	-15.56	-16.66	-17.46	-18.06	-18.46	-18.76	-18.96	-19.06	-19.06	-18.96	-18.76	-18.46	
70	-1.46	-1.80	-1.28	-0.23	0.82	1.48	1.48	0.84	-0.31	-1.54	-2.34	-2.68	-2.04	-1.34	-3.38	-3.62	-3.05	-2.40	-1.68	-4.80	-5.52	-6.08	-8.28	-10.39	-12.40	-14.12	-15.52	-16.62	-17.42	-18.02	-18.42	-18.72	-18.92	-19.02	-19.02	-18.92	-18.72	-18.42	
75	-1.46	-1.70	-1.11	-0.02	1.03	1.71	1.71	1.15	0.01	-1.17	-2.22	-2.58	-2.08	-1.40	-3.52	-3.68	-3.08	-2.42	-1.68	-4.72	-5.45	-5.93	-8.13	-10.14	-11.96	-13.56	-14.96	-16.06	-16.86	-17.46	-17.86	-18.16	-18.36	-18.46	-18.46	-18.36	-18.16	-17.86	
80	-1.46	-1.58	-0.89	0.22	1.30	2.21	2.21	1.24	0.24	-0.60	-1.46	-1.94	-1.46	-0.70	-3.26	-3.26	-2.66	-2.00	-1.30	-4.64	-5.36	-5.84	-8.04	-10.05	-11.87	-13.47	-14.87	-15.97	-16.77	-17.37	-17.77	-18.07	-18.27	-18.37	-18.37	-18.27	-18.07	-17.77	
85	-1.46	-1.47	-0.65	0.32	1.62	2.38	2.38	1.27	0.24	-0.82	-1.70	-2.28	-1.70	-0.94	-3.70	-3.60	-3.00	-2.34	-1.64	-4.62	-5.34	-5.82	-8.02	-10.03	-11.85	-13.45	-14.85	-15.95	-16.75	-17.35	-17.75	-18.05	-18.25	-18.35	-18.35	-18.25	-18.05	-17.75	
90	-1.46	-1.34	-0.38	0.85	1.97	2.77	2.77	1.20	0.29	-1.00	-1.92	-2.47	-1.90	-1.04	-4.26	-4.26	-3.58	-2.84	-2.10	-4.50	-5.22	-5.70	-7.90	-9.91	-11.73	-13.33	-14.73	-15.83	-16.63	-17.23	-17.63	-17.93	-18.13	-18.23	-18.23	-18.13	-17.93	-17.63	
95	-1.46	-1.21	0.10	1.20	2.33	3.35	3.35	1.30	0.33	-1.28	-2.72	-3.71	-3.02	-1.68	-4.58	-4.48	-3.80	-3.06	-2.20	-4.70	-5.42	-5.90	-8.10	-10.11	-11.93	-13.53	-14.93	-16.03	-16.83	-17.43	-17.83	-18.13	-18.33	-18.43	-18.43	-18.33	-18.13	-17.83	
100	-1.46	-1.07	0.18	1.54	2.50	3.50	3.50	1.38	0.36	-1.35	-2.82	-3.81	-3.02	-1.76	-4.66	-4.56	-3.88	-3.14	-2.28	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
105	-1.46	-0.94	0.45	1.87	2.98	3.77	3.77	1.43	0.38	-1.48	-3.17	-4.16	-3.37	-2.05	-4.58	-4.48	-3.80	-3.06	-2.20	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
110	-1.46	-0.81	0.71	2.17	3.25	3.96	3.96	1.43	0.36	-1.43	-3.22	-4.21	-3.42	-2.10	-4.46	-4.36	-3.68	-2.94	-2.08	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
115	-1.46	-0.68	0.84	2.44	3.47	4.08	4.07	1.43	0.35	-1.47	-3.36	-4.35	-3.56	-2.24	-4.44	-4.34	-3.66	-2.92	-2.06	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
120	-1.46	-0.57	1.16	2.68	3.66	4.15	4.15	1.42	0.33	-1.53	-3.51	-4.50	-3.71	-2.34	-4.44	-4.34	-3.66	-2.92	-2.06	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
125	-1.46	-0.47	1.31	2.86	3.81	4.20	4.20	1.41	0.32	-1.63	-3.66	-4.65	-3.86	-2.42	-4.34	-4.24	-3.56	-2.82	-1.96	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
130	-1.46	-0.36	1.50	3.04	3.91	4.18	4.18	1.40	0.30	-1.68	-3.77	-4.71	-3.92	-2.54	-4.24	-4.14	-3.46	-2.72	-1.86	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
135	-1.46	-0.28	1.63	3.17	3.99	4.17	3.99	1.40	0.30	-1.68	-3.87	-4.80	-4.01	-2.65	-4.08	-3.98	-3.30	-2.56	-1.70	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
140	-1.46	-0.21	1.73	3.26	4.03	4.14	3.86	1.41	0.30	-1.64	-3.98	-4.91	-4.12	-2.74	-4.01	-3.91	-3.23	-2.49	-1.64	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
145	-1.46	-0.15	1.79	3.30	4.08	4.08	3.75	1.33	0.30	-1.59	-4.09	-5.02	-4.23	-2.84	-4.00	-3.90	-3.22	-2.48	-1.60	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
150	-1.46	-0.11	1.82	3.38	3.98	3.98	3.64	1.32	0.30	-1.54	-4.20	-5.13	-4.34	-2.95	-3.90	-3.80	-3.12	-2.38	-1.50	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01	-16.81	-17.41	-17.81	-18.11	-18.31	-18.41	-18.41	-18.31	-18.11	-17.81	
155	-1.46	-0.08	1.83	3.25	3.88	3.88	3.48	1.30	0.24	-1.33	-4.10	-5.02	-4.23	-2.95	-3.80	-3.70	-3.02	-2.26	-1.40	-4.68	-5.40	-5.88	-8.08	-10.09	-11.91	-13.51	-14.91	-16.01											

PhA (km)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180		
Response (a)	Response (b)	Response (c)	Response (d)	Response (e)	Response (f)	Response (g)	Response (h)	Response (i)	Response (j)	Response (k)	Response (l)	Response (m)	Response (n)	Response (o)	Response (p)	Response (q)	Response (r)	Response (s)	Response (t)	Response (u)	Response (v)	Response (w)	Response (x)	Response (y)	Response (z)	Response (aa)	Response (ab)	Response (ac)	Response (ad)	Response (ae)	Response (af)	Response (ag)	Response (ah)	Response (ai)	Response (aj)	Response (ak)	Response (al)		
0	0.0	0.0	-0.23	-7.12	-7.25	-0.81	-1.55	-0.40	0.03	0.72	1.88	3.07	3.90	4.17	3.89	3.35	2.88	2.15	0.22	-0.22	-0.35	-0.20	-0.25	4.32	-10.87	-13.87	-13.14	-12.08	-12.36	-14.88	-15.11	-14.24	-12.98	-12.47	-13.14	-12.29	-11.41	-12.29	
5	0.0	0.0	-0.46	-3.27	-4.45	-0.47	-3.96	-2.17	-1.63	-1.59	-0.99	-3.38	1.72	2.62	2.95	2.79	2.54	2.54	2.16	0.33	-1.54	-0.70	-4.16	-4.73	-7.85	-9.88	-11.84	-12.87	-12.87	-13.63	-16.21	-16.02	-14.92	-12.74	-12.45	-13.12	-12.29		
10	0.0	0.0	-0.75	-2.47	-3.11	-0.75	-3.94	-2.47	-1.71	-1.57	-1.01	-3.31	1.37	2.11	2.44	2.28	2.11	2.11	1.71	0.33	-1.54	-0.70	-4.16	-4.73	-7.85	-9.88	-11.84	-12.87	-12.87	-13.63	-16.21	-16.02	-14.92	-12.74	-12.45	-13.12	-12.29		
15	0.0	0.0	-0.76	-2.31	-3.12	-0.76	-4.15	-2.45	-1.77	-1.43	-1.03	-3.30	-1.36	-0.93	-0.83	-0.59	-0.43	-0.15	-0.19	-0.40	-0.77	-13.17	-11.36	-10.30	-7.18	-4.78	-4.99	-11.34	-10.00	-14.80	-14.80	-13.28	-12.14	-12.22	-10.30	-10.20	-10.20		
20	0.0	0.0	-0.79	-2.13	-3.71	-0.43	-4.62	-2.36	-1.46	-0.88	-10.27	-1.12	-2.23	-2.91	-0.47	-1.82	-1.13	-1.26	-1.80	-1.40	-0.39	-1.91	-13.86	-10.38	-7.26	-4.74	-4.99	-11.34	-10.00	-14.80	-14.80	-13.28	-12.14	-12.22	-10.30	-10.20	-10.20		
25	0.0	0.0	-0.81	-2.01	-3.81	-0.26	-5.06	-2.42	-1.25	-0.60	-10.43	-1.21	-2.45	-2.62	-1.36	-0.97	-1.28	-1.96	-1.24	-0.56	-0.95	-12.47	-11.44	-12.47	-10.00	-7.72	-4.80	-10.97	-10.05	-10.78	-11.43	-12.59	-12.24	-12.42	-11.57	-11.84	-12.29		
30	0.0	0.0	-0.82	-2.07	-4.00	-0.08	-5.54	-2.40	-1.04	-0.34	-11.14	-1.33	-2.15	-1.53	-1.13	-1.15	-1.05	-2.32	-0.73	-0.59	-0.40	-10.12	-11.42	-10.00	-12.22	-10.43	-11.54	-11.58	-10.60	-10.40	-11.80	-12.77	-12.15	-11.34	-12.54	-12.82	-12.29		
35	0.0	0.0	-0.82	-2.07	-4.00	-0.08	-5.54	-2.40	-1.04	-0.34	-11.14	-1.33	-2.15	-1.53	-1.13	-1.15	-1.05	-2.32	-0.73	-0.59	-0.40	-10.12	-11.42	-10.00	-12.22	-10.43	-11.54	-11.58	-10.60	-10.40	-11.80	-12.77	-12.15	-11.34	-12.54	-12.82	-12.29		
40	0.0	0.0	-0.82	-2.57	-3.91	-0.33	-6.00	-2.38	-1.29	-1.10	-0.42	-10.00	-1.37	-3.85	-2.45	-0.81	-1.44	-1.43	-0.79	-0.72	-1.10	-1.05	-0.80	-10.40	-12.12	-13.37	-11.64	-10.65	-10.40	-12.12	-13.37	-11.64	-10.65	-10.40	-12.12	-13.37	-11.64	-10.65	-10.40
45	0.0	0.0	-0.81	-2.41	-3.52	-1.84	-3.88	-3.34	-3.33	-3.71	-4.13	-4.40	-4.80	-5.81	-6.93	-7.88	-8.50	-8.54	-10.31	-13.38	-13.81	-13.82	-10.83	-0.00	-0.00	-7.08	-0.00	-11.52	-7.08	-6	-6	-6	-6	-6	-6	-6	-6		
50	0.0	0.0	-0.82	-2.27	-3.18	-3.46	-3.56	-3.80	-4.28	-4.12	-4.12	-4.12	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	
55	0.0	0.0	-0.82	-2.27	-3.18	-3.46	-3.56	-3.80	-4.28	-4.12	-4.12	-4.12	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	
60	0.0	0.0	-0.79	-2.51	-3.44	-3.59	-3.40	-4.08	-4.00	-4.00	-2.79	1.24	1.35	1.68	0.40	0.32	-1.13	-1.62	-1.47	-1.70	-2.23	-2.27	-2.44	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	
65	0.0	0.0	-0.75	-2.90	-2.46	-2.82	-3.55	-4.13	-3.50	-4.11	0.22	1.44	2.90	2.32	2.14	1.59	0.75	-0.21	-0.00	-1.50	-1.40	-1.34	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	-1.31	
70	0.0	0.0	-0.71	-3.81	-2.26	-2.46	-4.06	-2.97	-4.00	-2.86	1.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	
75	0.0	0.0	-0.71	-3.81	-2.26	-2.46	-4.06	-2.97	-4.00	-2.86	1.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	
80	0.0	0.0	-0.71	-3.81	-2.26	-2.46	-4.06	-2.97	-4.00	-2.86	1.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	
85	0.0	0.0	-0.67	-3.65	-2.01	-2.34	-3.12	-3.63	-2.51	-4.48	1.12	1.92	2.86	1.83	1.70	1.59	1.43	0.91	-0.31	-1.40	-2.56	-2.94	-3.37	-3.56	-3.76	-3.96	-4.16	-4.36	-4.56	-4.76	-4.96	-5.16	-5.36	-5.56	-5.76	-5.96	-6.16		
90	0.0	0.0	-0.65	-3.63	-1.98	-2.25	-3.26	-3.40	-2.52	-2.70	0.79	1.45	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65		
95	0.0	0.0	-0.63	-3.62	-1.98	-2.17	-2.70	-3.12	-2.46	-0.88	0.44	0.95	0.89	0.07	0.48	0.46	0.24	-0.18	-0.56	-1.40	-2.38	-2.79	-3.05	-3.66	-4.34	-4.83	-5.46	-6.04	-6.64	-7.24	-7.84	-8.44	-9.04	-9.64	-10.24	-10.84			
100	0.0	0.0	-0.63	-3.62	-1.98	-2.17	-2.70	-3.12	-2.46	-0.88	0.44	0.95	0.89	0.07	0.48	0.46	0.24	-0.18	-0.56	-1.40	-2.38	-2.79	-3.05	-3.66	-4.34	-4.83	-5.46	-6.04	-6.64	-7.24	-7.84	-8.44	-9.04	-9.64	-10.24	-10.84			
105	0.0	0.0	-0.59	-3.65	-1.85	-2.30	-2.27	-2.44	-2.10	-1.14	0.23	0.01	0.62	-1.85	-2.43	-2.41	-1.97	-1.64	-1.37	-2.42	-3.38	-4.13	-4.57	-5.22	-6.68	-8.88	-10.20	-9.71	-9.40	-10.02	-10.61	-10.71	-10.91	-11.55	-11.82	-11.81	-12.08		
110	0.0	0.0	-0.56	-3.68	-2.14	-2.11	-2.00	-2.08	-1.84	-1.25	-0.60	-0.64	-0.36	-2.30	-2.93	-2.78	-2.29	-2.06	-2.40	-3.42	-4.84	-5.99	-6.34	-6.48	-7.27	-8.03	-10.11	-10.08	-9.62	-9.78	-10.10	-10.33	-10.93	-11.70	-12.32	-11.76	-12.39		
115	0.0	0.0	-0.54	-3.71	-2.23	-2.12	-1.90	-2.12	-1.85	-1.33	-0.76	-0.40	-0.21	-0.38	-3.47	-3.15	-2.64	-2.58	-3.29	-4.74	-6.80	-7.88	-7.98	-7.88	-8.66	-10.46	-10.76	-10.17	-9.83	-9.82	-10.13	-11.02	-12.62	-12.08	-11.71	-10.91	-12.39		
120	0.0	0.0	-0.52	-3.74	-2.23	-2.12	-1.90	-2.12	-1.85	-1.33	-0.76	-0.40	-0.21	-0.38	-3.47	-3.15	-2.64	-2.58	-3.29	-4.74	-6.80	-7.88	-7.98	-7.88	-8.66	-10.46	-10.76	-10.17	-9.83	-9.82	-10.13	-11.02	-12.62	-12.08	-11.71	-10.91	-12.39		
125	0.0	0.0	-0.49	-3.76	-2.40	-2.12	-1.46	-0.95	-0.81	-1.13	-1.10	-1.38	-0.47	-0.96	-0.85	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82	-0.82		
130	0.0	0.0	-0.47	-3.77	-2.40	-2.02	-1.22	-0.54	-0.39	-0.94	-2.22	-0.40	-0.88	-0.58	-0.51	-0.58	-0.43	-0.40	-0.44	-0.64	-2.44	-4.74	-7.62	-10.00	-10.13	-10.88	-10.08	-10.08	-10.08	-10.08	-10.08	-10.08	-10.08	-10.08	-10.08	-10.08	-10.08		
135	0.0	0.0	-0.49	-3.76	-2.50	-1.98	-0.96	-0.14	0.03	-0.05	-0.09	-0.10	-0.45	-0.70	-0.48	-0.42	-0.56	-0.99	-0.56	-0.76	-0.78	-0.94	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64		
140	0.0	0.0	-0.49	-3.74	-2.46	-2.06	-0.88	0.24	-0.44	-0.20	-0.17	-0.80	-0.55	-0.56	-0.46	-0.33	-0.21	-0.30	-0.51	-0.82	-0.54	-0.33	-0.76	-0.40	-0.78	-0.40	-10.27	-10.33	-9.14	-9.73	-9.83	-10.13	-10.99	-12.27	-11.27	-10.46	-10.39		
145	0.0	0.0	-0.49	-3.74	-2.46	-2.06	-0.88	0.24	-0.44	-0.20	-0.17	-0.80	-0.55	-0.56	-0.46	-0.33	-0.21	-0.30	-0.51	-0.82	-0.54	-0.33	-0.76	-0.40	-0.78	-0.40	-10.27	-10.33	-9.14	-9.73	-9.83	-10.13	-10.99	-12.27	-11.27	-10.46	-10.39		
150	0.0	0.0	-0.42	-3.63	-2.38	-1.52	-1.14	1.27	0.07	-0.11	-0.22	-1.33	-2.00	-1.31	-1.85	-2.00	-2.32	-2.84	-2.93	-3.33	-4.00	-4.93	-5.15	-4.79	-5.78	-6.88	-7.18	-7.84	-7.13	-7.13	-7.13	-7.13	-7.13	-7.13	-7.13	-7.13			
155	0.0	0.0	-0.15	-3.54	-2.27	-1.34	-0.15	1.20	1.50	0.84	0.40	-0.55	-0.59	-0.77	-1.14	-1.60	-2.00	-2.40	-2.80	-3.40	-3.91	-4.04	-3.94	-4.14	-4.07	-4.13	-4.62	-4.30	-4.32	-3.96	-3.96	-3.96	-3.96	-3.96	-3.96	-3.96			
160	0.0	0.0	-0.07	-3.43	-2.15	-1.10	0.30	1.54	2.11	2.14	1.79	1.32	0.94	0.68	0.37	-0.08	-0.70	-1.28	-1.73	-2.05	-2.38	-2.73	-3.12	-3.40	-3.68	-4.07	-4.55	-5.07	-5.72	-6.08	-6.96	-8.08	-11.10	-11.76	-11.12	-10.29			
165	0.0	0.0	-0.10	-3.46	-2.15	-1.10	0.30	1.54	2.11	2.14	1.79	1.32	0.94	0.68	0.37	-0.08	-0.70	-1.28	-1.73	-2.05	-2.38	-2.73	-3.12	-3.40	-3.68	-4.07	-4.55	-5.07											

Ant. Position : 5G/6G Ant

[illegible]

Phy.Angle	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	
1	4.64	-4.24	-2.58	-2.54	-2.77	-0.79	1.35	1.90	1.04	-0.13	-0.65	-1.29	-1.83	-2.00	-1.58	-1.15	-1.40	-2.48	-3.76	-4.57	-5.34	-6.14	-6.55	-6.02	-3.30	-12.72	-12.42	-12.44	-9.71	-10.13	-12.38	-14.62	-16.28	-17.27	-19.25	-23.40	-21.41	-27.01
5	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
9	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
13	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
17	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
21	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
25	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
29	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
33	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
37	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
41	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
45	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
49	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
53	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
57	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
61	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
65	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
69	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
73	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
77	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
81	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
85	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
89	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
93	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
97	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
101	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
105	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
109	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
113	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
117	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
121	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
125	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
129	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-1.10	-1.67	-2.64	-2.44	-1.60	-1.20	-1.79	-3.25	-4.41	-5.24	-6.11	-7.29	-8.17	-8.98	-16.23	-17.42	-17.64	-9.79	-10.29	-12.33	-14.55	-16.53	-17.06	-18.03	-20.44	-24.02	-27.01	
133	4.64	-4.44	-3.02	-3.25	-3.53	-1.22	0.86	1.22	0.33	-0.60	-																											