

# Regulatory WLAN Antenna Information

(English Language Required for Intel Regulatory Review / Approval)

**(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.  
Remove Intel references and make this your own document)**

<b>Platform</b>	
Platform Owner	DELL
Brand Name	
Model Name	
ODM	COMPAL
Target Launch Date	(YYYY/ MM/ DD)
<b>Antenna</b>	
Brand Name	GALTRONICS
Antenna Set Name	WLAN_L
Antenna Set P/N	021020201NC3793-1
Part Number	<input type="checkbox"/> Tx1 Antenna: 06-7015-03 (MAIN) <input type="checkbox"/> Tx2 Antenna: 06-7016-03 (AUX)
Antenna Set Name	WLAN_R
Antenna Set P/N	021020201NC3793-2
Part Number	<input type="checkbox"/> Tx3 Antenna: 06-7014-03 (MIMO)
<b>Module</b>	
With WLAN Module	
(Check Box)	
	<input type="checkbox"/> 533ANX Family
	<input type="checkbox"/> 512ANX Family
	<input type="checkbox"/> 533AN Family
	<input type="checkbox"/> 512AN Family

## Antenna Sample / Antenna Data Requirements for worldwide regulatory approval

Section	Description of Required OEM / ODM Antenna Information	US / IC	EU	Japan	Taiwan	S.Korea
1A	Part Number for Antenna only	Required	Required	Required	Required	Required
1B	Antenna Manufacturer Name	Required	Required	Required	Required	Required
1C	Description of Antenna Type	Required	N/A	N/A	N/A	N/A
1D	Part number of Antenna Assembly / cable impedance, length & diameter.	Required	Desired	Desired	Desired	Desired
1E	Tx1, Tx2 & Tx3 antenna (Peak Gain W/ cable loss) *	Required	Required	Required	Required	Required
	1E OR 1F, 1G, 1H					
1F	Tx1, Tx2 & Tx3 antenna (Peak Gain only) *	Required	Required	Required	Required	Required
1G	VSWR of cable including connector	Required	Required	Required	Required	Required
1H	Tx1, Tx2 & Tx3 antenna (Cable loss W/ connector) *	Required	Required	Required	Required	Required
2	Dimensioned Photographs <u>and</u> Drawings of Tx1, Tx2, and Tx3 (or Rx3) antennas	Required	Required	Required	Required	Required
3	Radiation patterns of antennas loaded in the host platform.	Required	Desired	Required	N/A	Required
4	Platform model name / number - correlated to antenna manufacturer and antenna part number	Required	Required	Desired	Required	Desired
5	Photograph(s) or Drawings showing location of antennas in platform. <u>(S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.</u>	Required	Required	Desired	<u>Required (Photos)</u>	<u>Required (Photos)</u>
6	Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).	Required	N/A	N/A	N/A	N/A
7	Photograph(s) or Drawings showing the location of all antennas (WLAN, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.	Required	N/A	N/A	N/A	N/A
8	Local representative contact information for LMA/ PARS process.	Required	N/A	N/A	N/A	N/A

NOTE:

(\* ) if 3<sup>rd</sup> antenna is Rx only (e.g. receive only for 4965AGN) then peak gain and cable loss not required

# Antenna Information

## Section 1. Antenna Assembly Specifications

### Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
(P/N:06-7015-03) Tx1 antenna	Galtronics	PIFA	(P/N: 03-7007-01) 50 ohm Coaxial. length:53.9cm diameter: 1.13mm Connector: U.FL	2400-2500MHz <u>-2.49</u> dBi (peak)	2400-2500MHz <u>-1.15</u> dBi (peak)	2400-2500MHz <u>2.00</u> max	2400-2500MHz <u>-1.34</u> dBi (peak)
				2496-2690MHz <u>-2.19</u> dBi (peak)	2496-2690MHz <u>-0.85</u> dBi (peak)	2496-2690MHz <u>1.47</u> max	2496-2690MHz <u>-1.34</u> dBi (peak)
				5150-5350MHz <u>-1.88</u> dBi (peak)	5150-5350MHz <u>-0.36</u> dBi (peak)	5150-5350MHz <u>1.59</u> max	5150-5350MHz <u>-2.24</u> dBi (peak)
				5470-5725MHz <u>0.40</u> dBi (peak)	5470-5725MHz <u>1.84</u> dBi (peak)	5470-5725MHz <u>1.73</u> max	5470-5725MHz <u>-2.24</u> dBi (peak)
				5725-5850MHz <u>-0.52</u> dBi (peak)	5725-5850MHz <u>1.72</u> dBi (peak)	5725-5850MHz <u>2.00</u> max	5725-5850MHz <u>2.24</u> dBi (peak)
(P/N:06-7016-03) Tx2 antenna	Galtronics	PIFA	(P/N: 03-7008-01) 50 ohm Coaxial. length:49.1cm diameter: 1.13mm Connector: U.FL	2400-2500MHz <u>0.18</u> dBi (peak) *	2400-2500MHz <u>1.40</u> dBi (peak) *	2400-2500MHz <u>1.80</u> max *	2400-2500MHz <u>-1.22</u> dBi (peak) *
				2496-2690MHz <u>0.18</u> dBi (peak) *	2496-2690MHz <u>1.40</u> dBi (peak) *	2496-2690MHz <u>1.56</u> max*	2496-2690MHz <u>-1.22</u> dBi (peak) *
				5150-5350MHz <u>1.32</u> dBi (peak) *	5150-5350MHz <u>3.36</u> dBi (peak) *	5150-5350MHz <u>2.50</u> max *	5150-5350MHz <u>-2.04</u> dBi (peak) *
				5470-5725MHz <u>-0.60</u> dBi (peak) *	5470-5725MHz <u>1.44</u> dBi (peak) *	5470-5725MHz <u>2.03</u> max *	5470-5725MHz <u>-2.04</u> dBi (peak) *
				5725-5850MHz <u>-1.31</u> dBi (peak) *	5725-5850MHz <u>0.73</u> dBi (peak) *	5725-5850MHz <u>1.65</u> max *	5725-5850MHz <u>-2.04</u> dBi (peak) *
(P/N:06-7014-03) Tx3 antenna	Galtronics	PIFA	(P/N: 03-7009-01) 50 ohm Coaxial. length:32.9cm diameter: 1.13mm Connector: U.FL	2400-2500MHz <u>-1.8</u> dBi (peak) *	2400-2500MHz <u>-0.98</u> dBi (peak) *	2400-2500MHz <u>2.65</u> max *	2400-2500MHz <u>-0.82</u> dBi (peak) *
				2496-2690MHz <u>-1.28</u> dBi (peak) *	2496-2690MHz <u>-0.46</u> dBi (peak) *	2496-2690MHz <u>1.36</u> max*	2496-2690MHz <u>-0.82</u> dBi (peak) *
				5150-5350MHz <u>1.37</u> dBi (peak) *	5150-5350MHz <u>0</u> dBi (peak) *	5150-5350MHz <u>1.13</u> max *	5150-5350MHz <u>-1.37</u> dBi (peak) *
				5470-5725MHz <u>-0.87</u> dBi (peak) *	5470-5725MHz <u>0.50</u> dBi (peak) *	5470-5725MHz <u>1.21</u> max *	5470-5725MHz <u>-1.37</u> dBi (peak) *
				5725-5850MHz <u>-1.76</u> dBi (peak) *	5725-5850MHz <u>-0.39</u> dBi (peak) *	5725-5850MHz <u>1.73</u> max *	5725-5850MHz <u>-1.37</u> dBi (peak) *

### NOTE:

(\* ) If Rx2/Rx3 only (2<sup>nd</sup> or 3<sup>rd</sup> antenna receives only, e.g. for 512 family & 4965AGN) then the information marked with \* is not required

### Antenna Peak Gain Table:

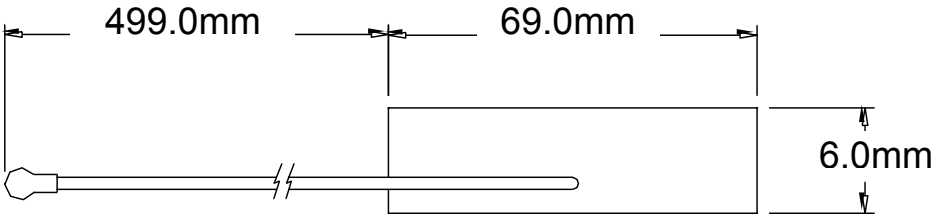
Frequency (MHz)	Tx1 antenna		Tx2 Antenna		Tx3 Antenna	
	Horizontal (dBi)	Vertical (dBi)	Horizontal (dBi)	Vertical (dBi)	Horizontal (dBi)	Vertical (dBi)
2400	-2.49	-4.62	-1.84	-6.34	-3.01	-3.40
2450	-2.84	-2.73	-2.76	-3.52	-0.69	-3.12
2500	-3.97	-2.69	-2.33	-2.41	-2.00	-2.87
2500	-3.97	-2.69	-2.33	-2.41	-2.00	-2.87
2600	-2.23	-3.06	-1.62	-5.19	-1.35	-3.63
2700	-2.78	-2.19	-3.20	-2.54	-2.75	-3.10
5150	-6.38	-1.88	-7.72	-1.07	-11.42	-3.46
5470	-4.66	0.30	-8.86	-1.71	-6.27	-0.83
5600	-6.23	0.40	-8.63	-2.10	-4.30	0.64
5785	-7.23	-2.04	-9.22	-4.54	-3.23	0.15
5850	-3.27	-0.52	-6.55	-2.48	-2.57	1.62

- Antenna Peak Gain required being test in system basis.
- 1E frame contend absolutely peak antenna gain include H/V

**Section 2. Dimensioned Photos or Drawings of Antennas**

Include a dimensioned photo and dimensioned drawing of Tx1 antenna here.

**Tx1 Antenna Dimensioned Drawing: (MAIN)**

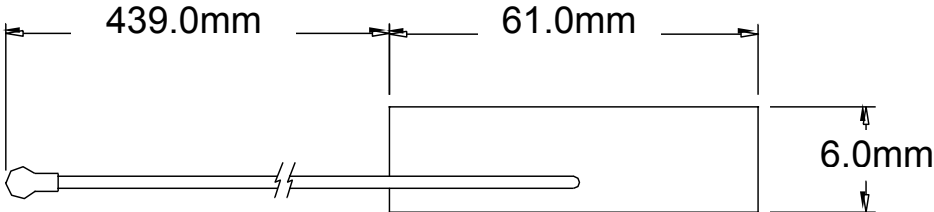


**Tx1 Antenna Photo:**



Include a dimensioned photo and dimensioned drawing of Tx2 antenna here.

Tx2 Antenna Dimensioned Drawing: (AUX)

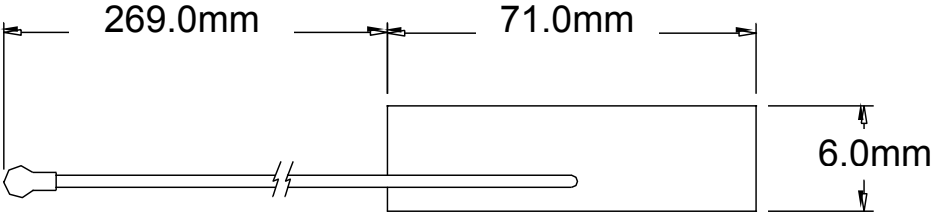


Tx2 Antenna Photo:



Include a dimensioned photo and dimensioned drawing of Tx3 antenna here.

Tx3 Antenna Dimensioned Drawing: (MIMO)



Tx3 Antenna Photo:



**Include front view photo of all 3 antennas here.**

Antenna Manufacturer: Galtronics

Antenna Part Number: 06-7015-03 (Tx1), 06-7016-03 (Tx2), 06-7014-03 (Tx3)



**Include back view photo of all 3 antennas here.**

Antenna Manufacturer: Galtronics

Antenna Part Number: 06-7015-03 (Main), 06-7016-03 (Aux), 06-7014-03 (MIMO)

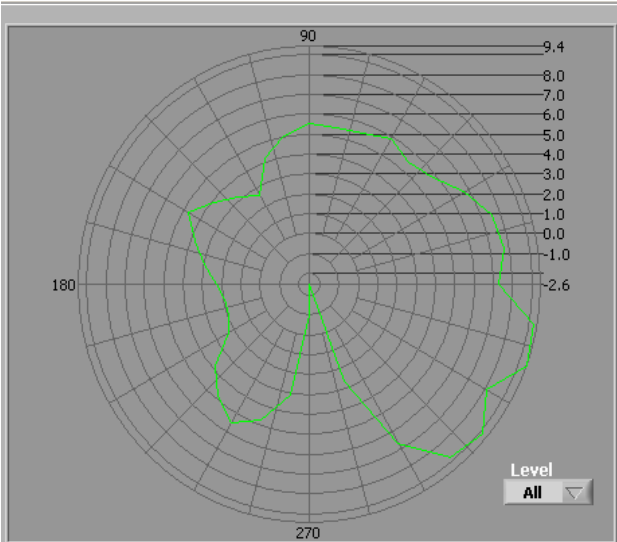




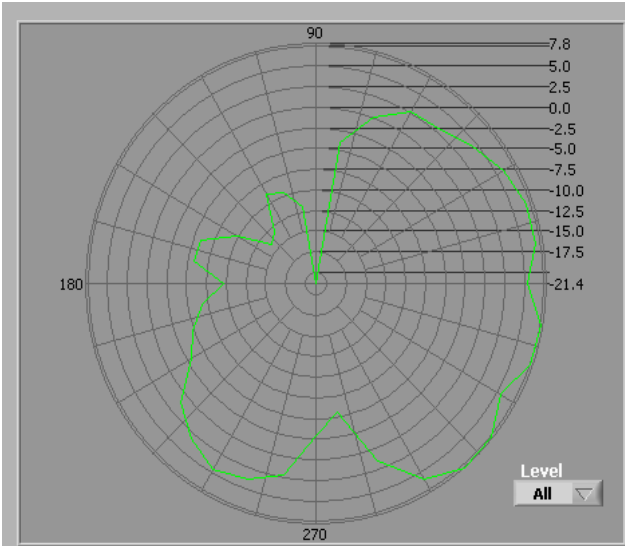
# Section 3. Radiation characteristics of antennae Loaded in Host Platform

## 2400-2500MHz radiation characteristic

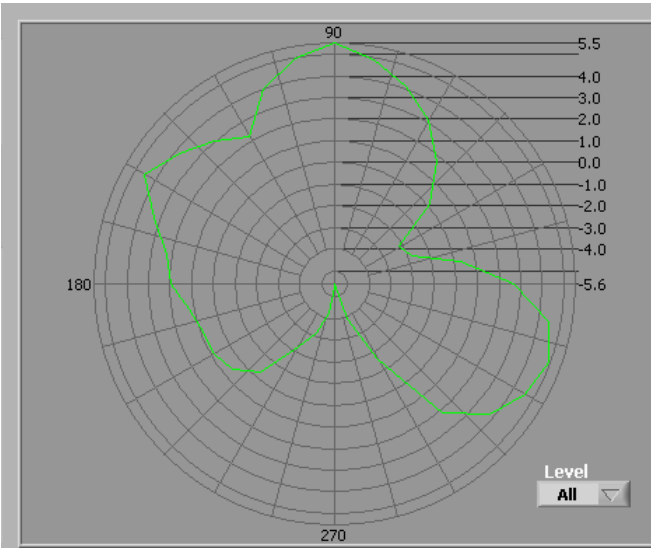
Tx1 antenna: 2400 MHz



Total



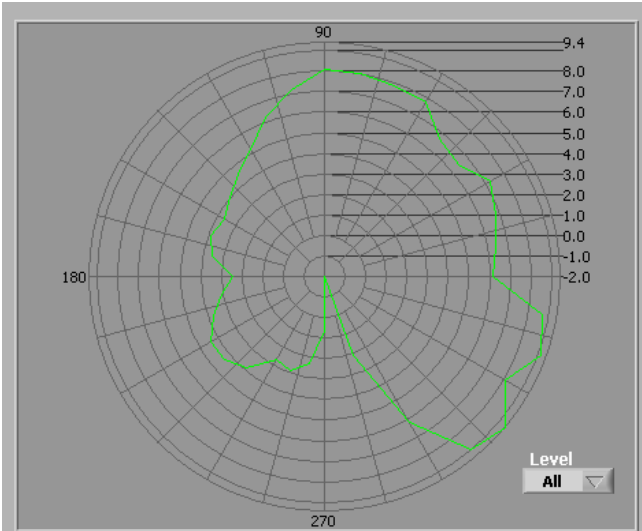
Horizontal



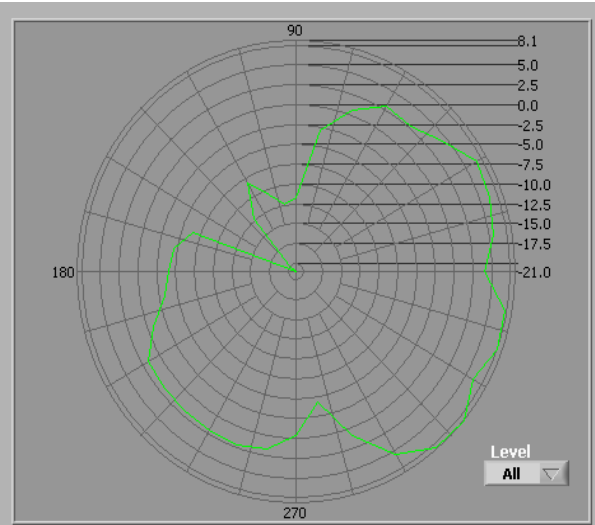
Vertical

Center Frequency	<b>2400 MHz</b>
Horizontal (dBi) peak	<b>-2.49</b>
Vertical (dBi) peak	<b>-4.62</b>

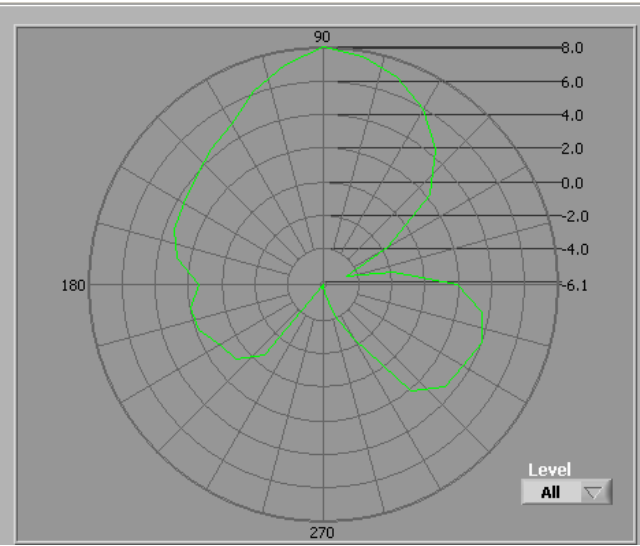
Tx1 antenna: 2450 MHz



Total



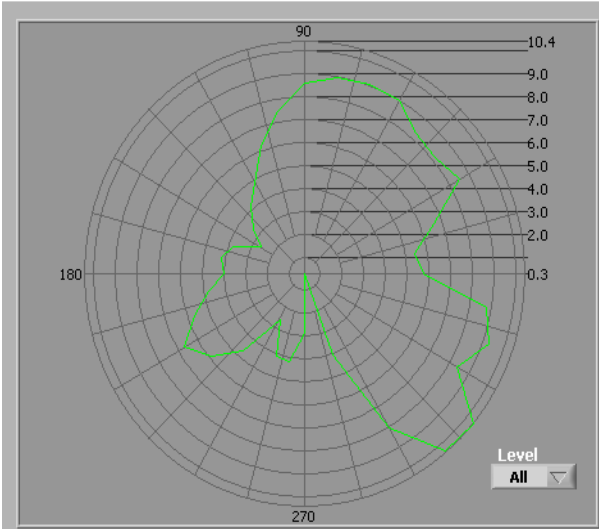
Horizontal



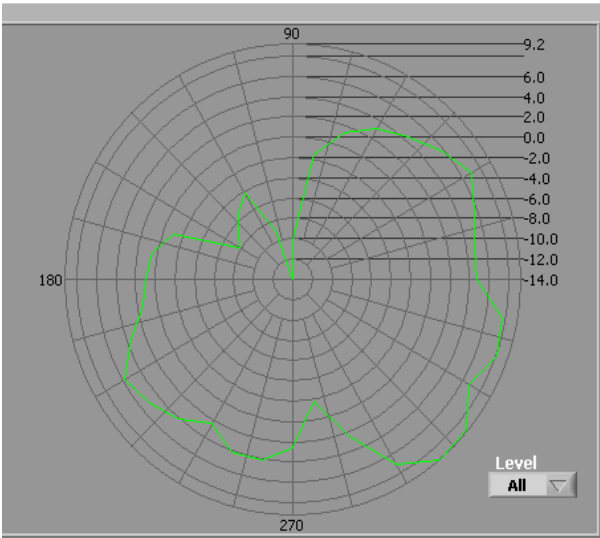
Vertical

Center Frequency	<b>2450 MHz</b>
Horizontal (dBi) peak	<b>-2.84</b>
Vertical (dBi) peak	<b>-2.73</b>

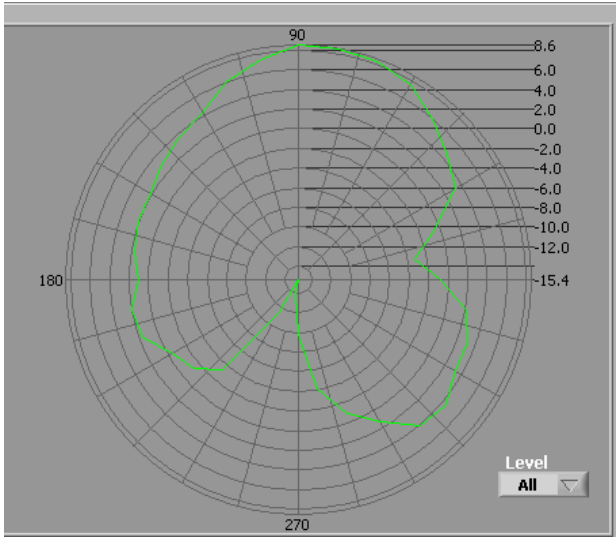
Tx1 antenna: 2500 MHz



Total



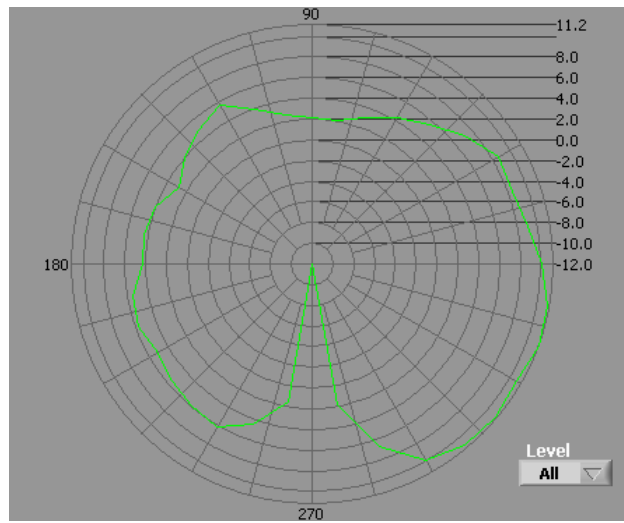
Horizontal



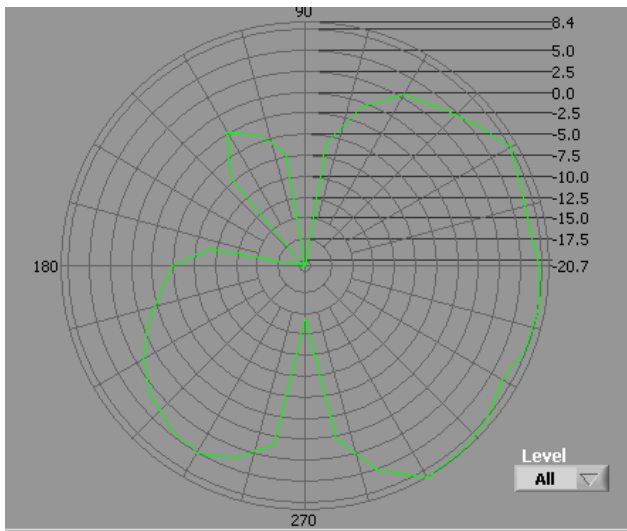
Vertical

Center Frequency	<b>2500 MHz</b>
Horizontal (dBi) peak	<b>-3.97</b>
Vertical (dBi) peak	<b>-2.69</b>

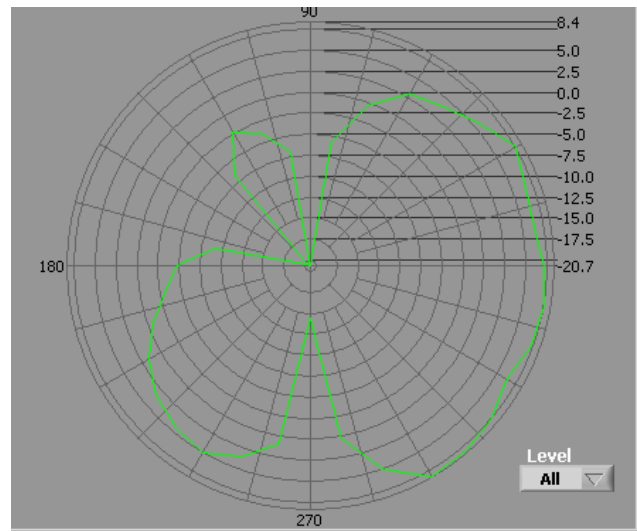
**Tx2 (or Rx2) antenna: 2400 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**



Total



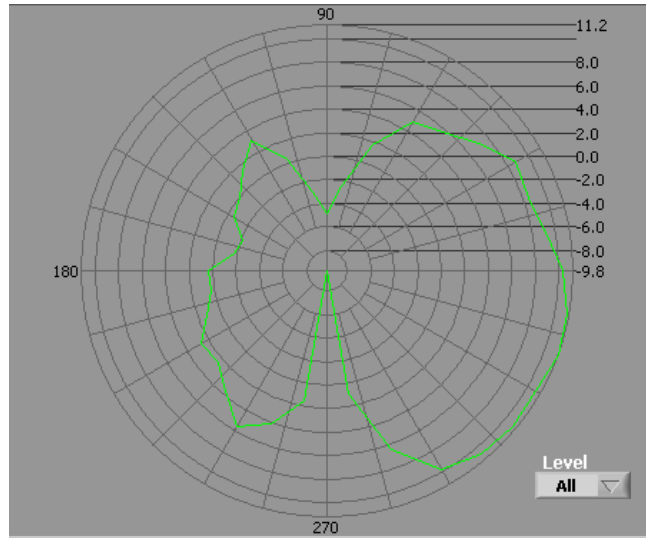
Horizontal



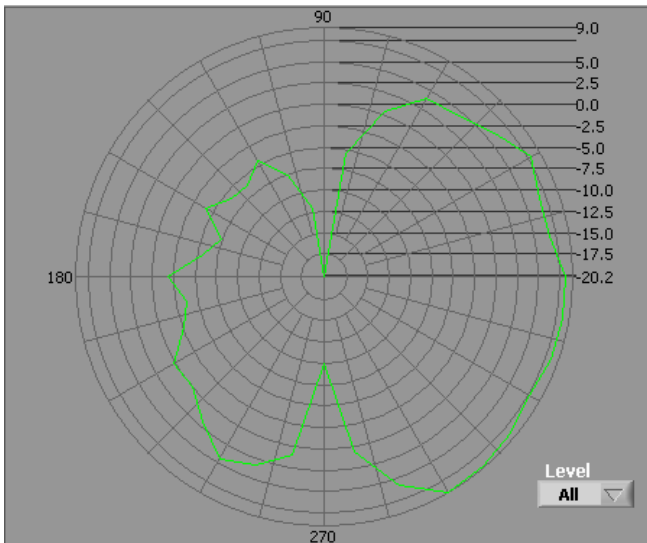
Vertical

Center Frequency	<b>2400 MHz</b>
Horizontal (dBi) peak	<b>-1.84</b>
Vertical (dBi) peak	<b>-6.34</b>

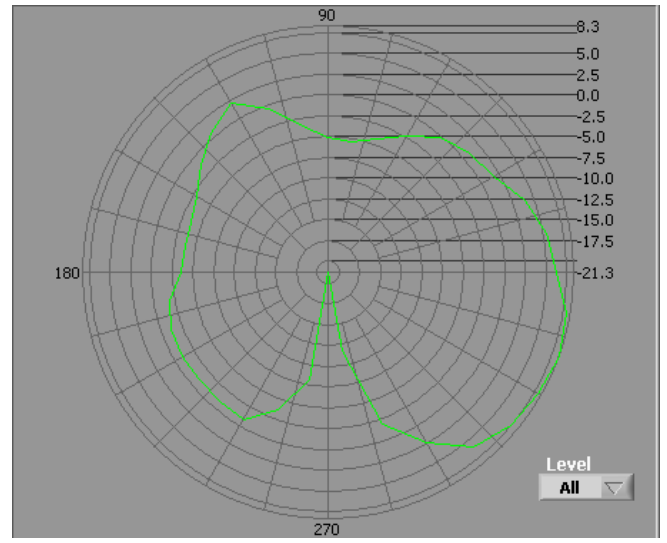
**Tx2 (or Rx2) antenna: 2450 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**



Total



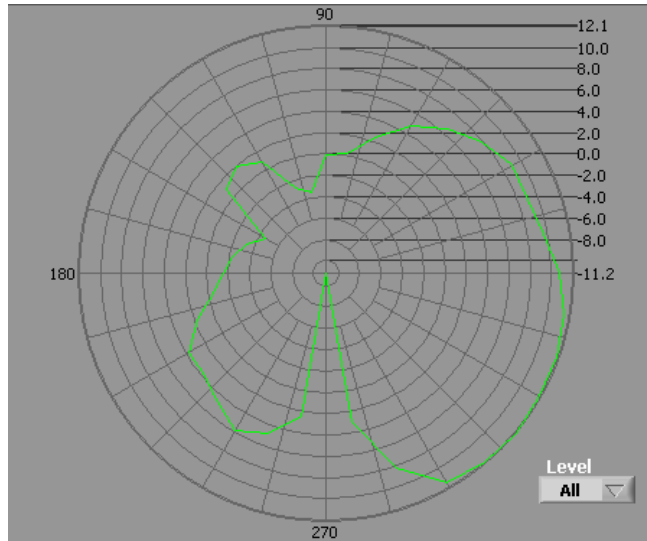
Horizontal



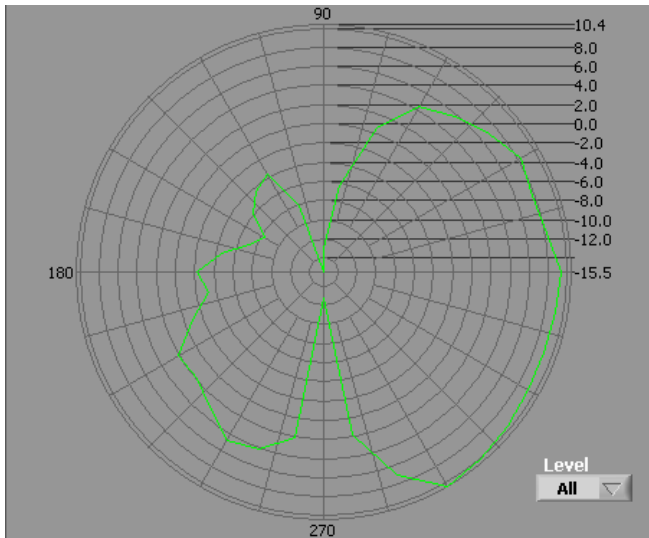
Vertical

Center Frequency	<b>2450 MHz</b>
Horizontal (dBi) peak	<b>-2.76</b>
Vertical (dBi) peak	<b>-3.52</b>

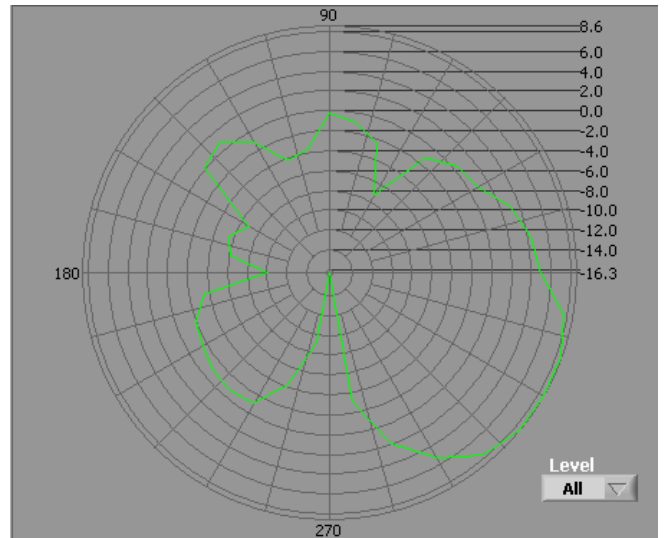
**Tx2 (or Rx2) antenna: 2500 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**



Total



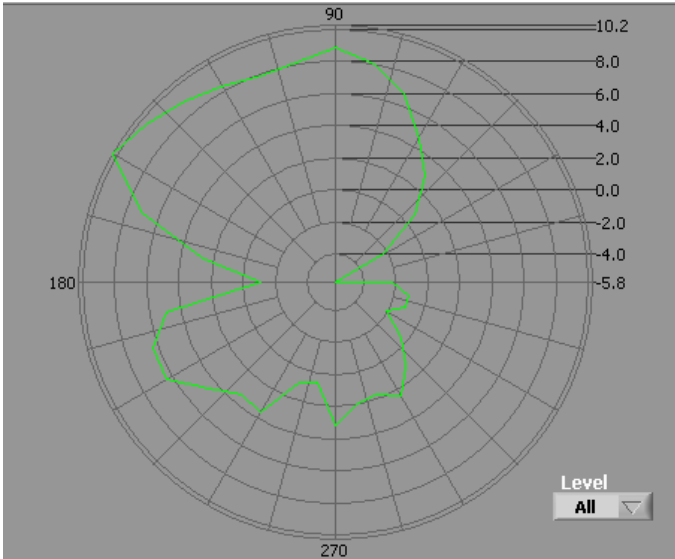
Horizontal



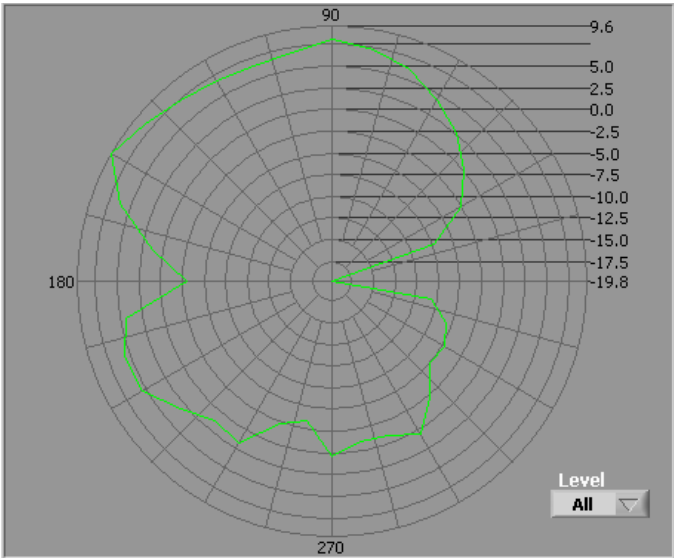
Vertical

Center Frequency	<b>2500 MHz</b>
Horizontal (dBi) peak	<b>-2.33</b>
Vertical (dBi) peak	<b>-2.41</b>

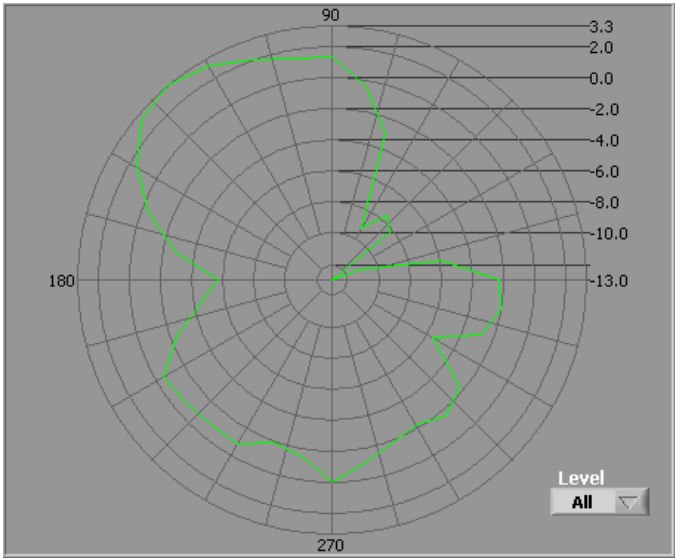
Tx3 (or Rx3) antenna: 2400 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)



Total



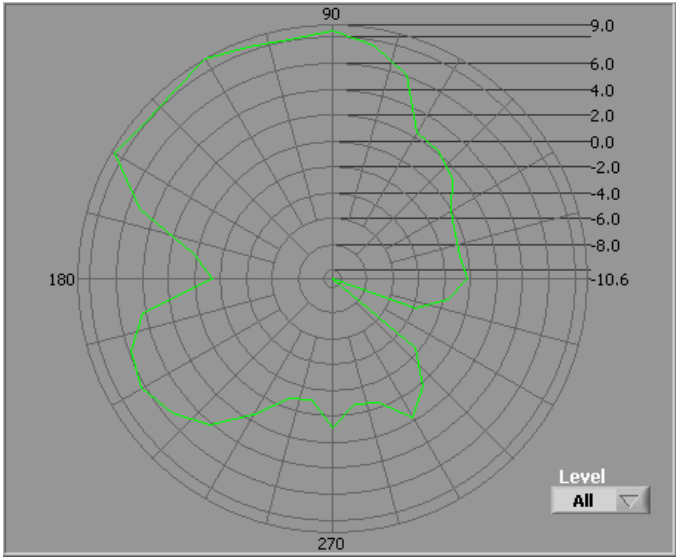
Horizontal



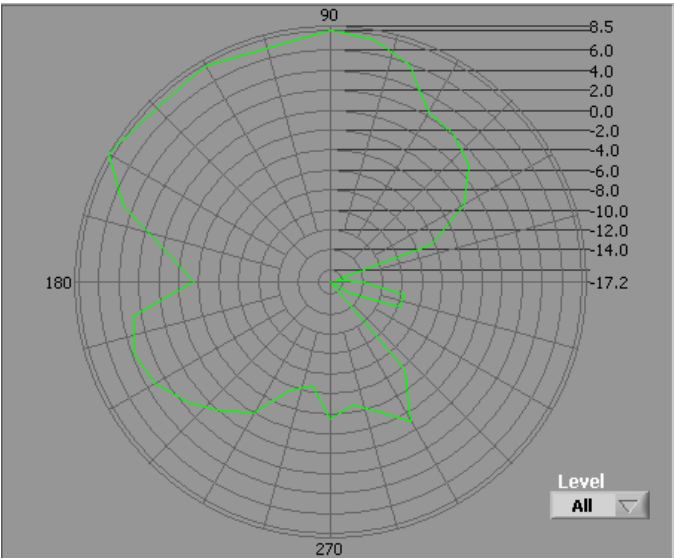
Vertical

Center Frequency	<b>2400 MHz</b>
Horizontal (dBi) peak	<b>-3.01</b>
Vertical (dBi) peak	<b>-3.70</b>

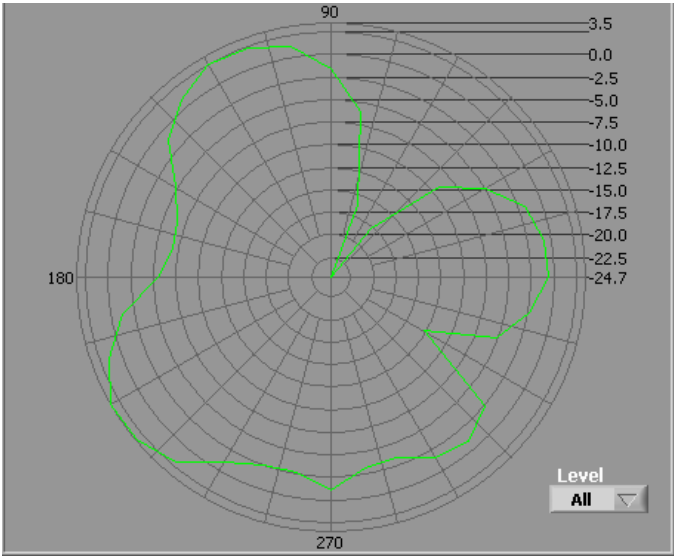
Tx3 (or Rx3) antenna: 2450 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)



Total



Horizontal

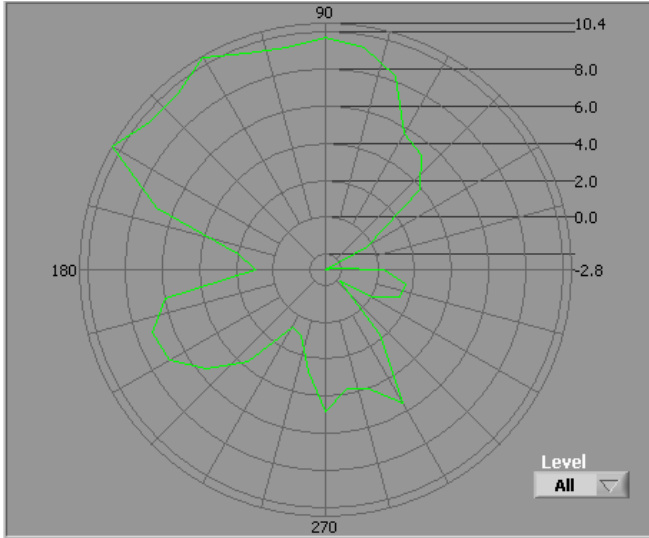


Vertical

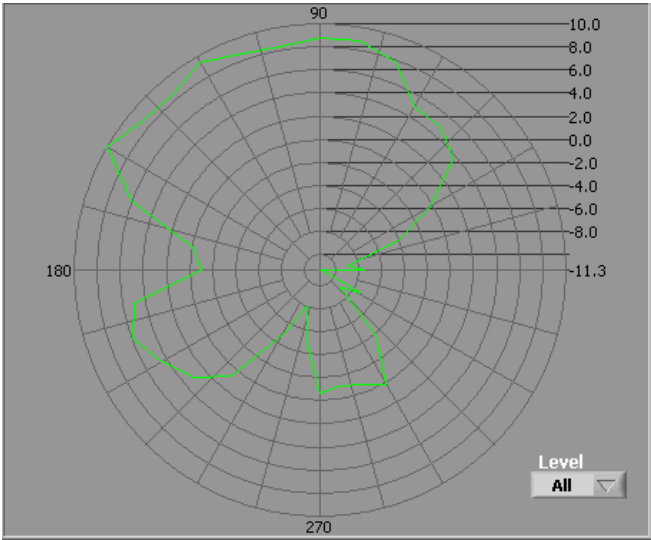
Center Frequency	<b>2450 MHz</b>
Horizontal (dBi) peak	<b>-0.69</b>
Vertical (dBi) peak	<b>-3.12</b>



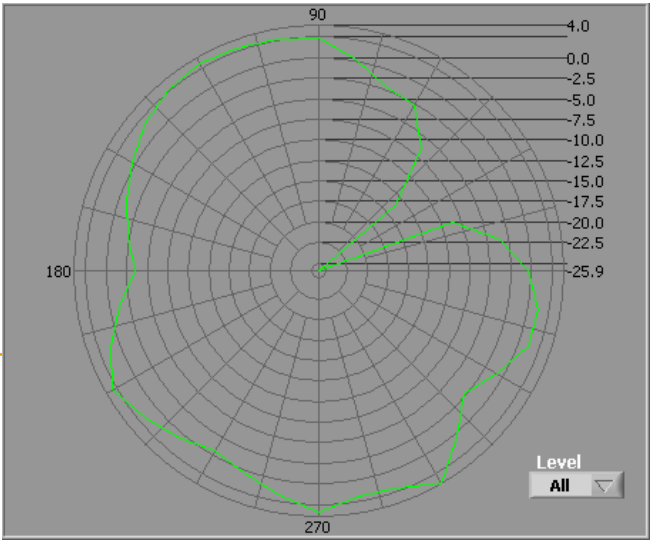
Tx3 (or Rx3) antenna: 2500 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for



4965AGN)



Horizontal



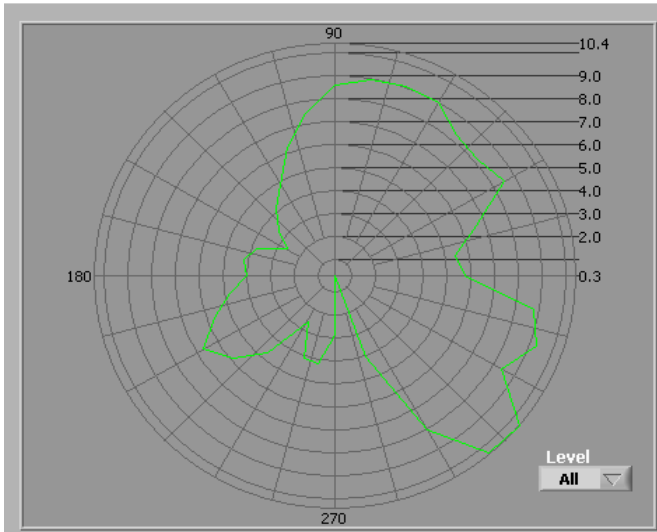
Vertical

Total

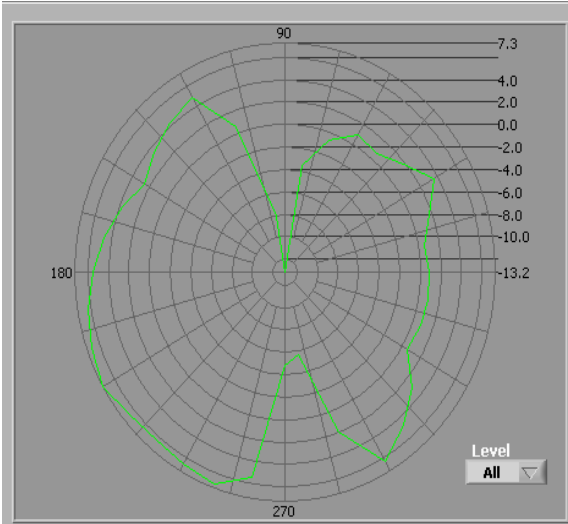
Center Frequency	<b>2500 MHz</b>
Horizontal (dBi) peak	<b>-2</b>
Vertical (dBi) peak	<b>-2.87</b>

2490-2700MHz radiation characteristic

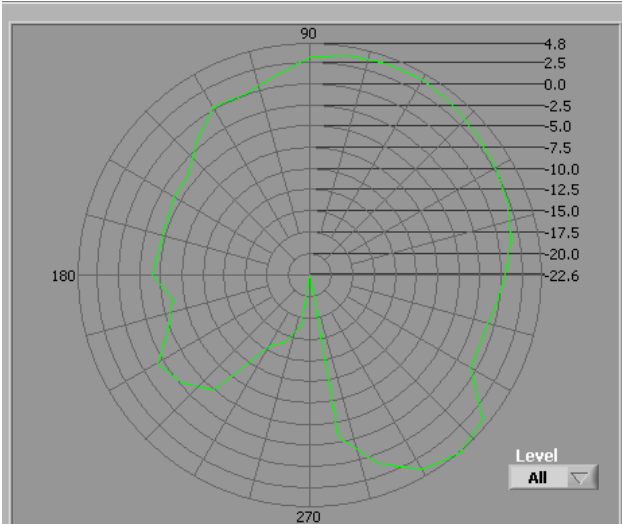
Tx1 antenna: 2500MHz



Total



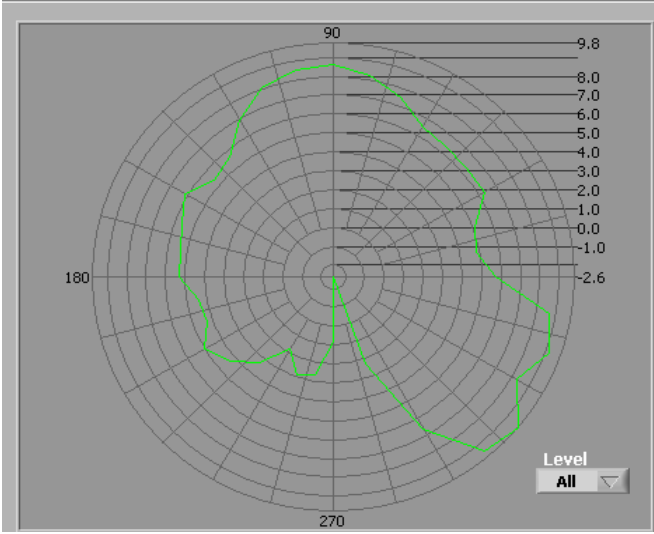
Horizontal



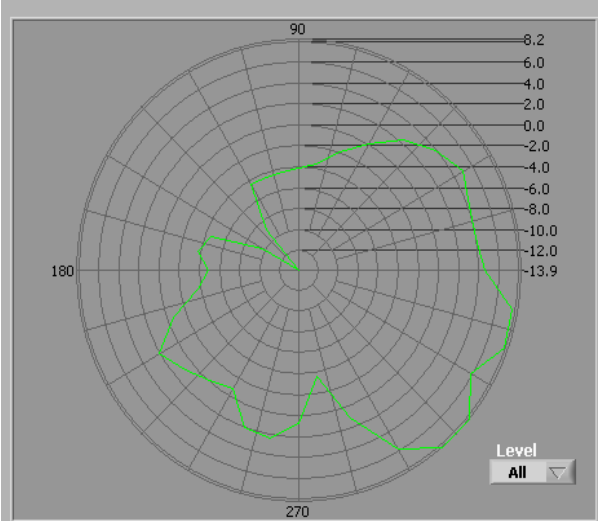
Vertical

Center Frequency	<b>2500 MHz</b>
Horizontal (dBi) peak	<b>-3.97</b>
Vertical (dBi) peak	<b>-2.69</b>

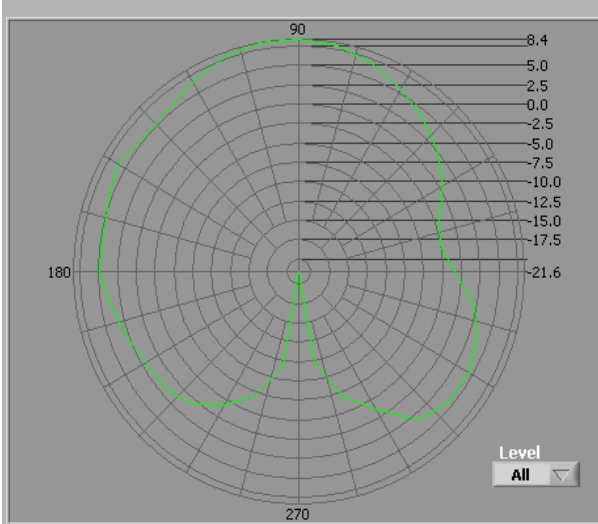
Tx1 antenna: 2600MHz



Total



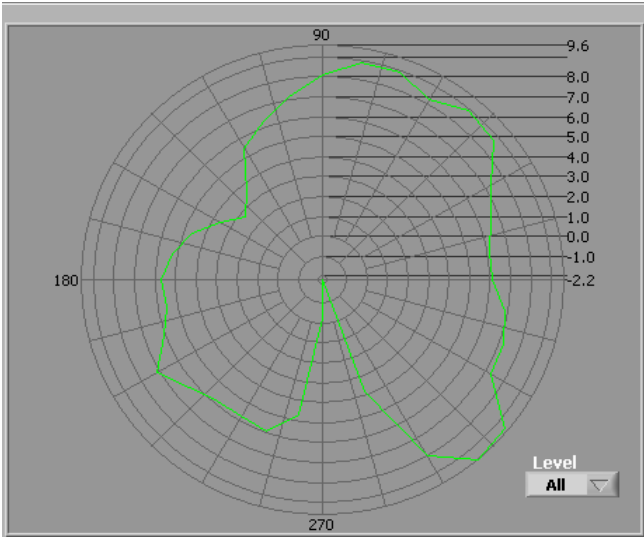
Horizontal



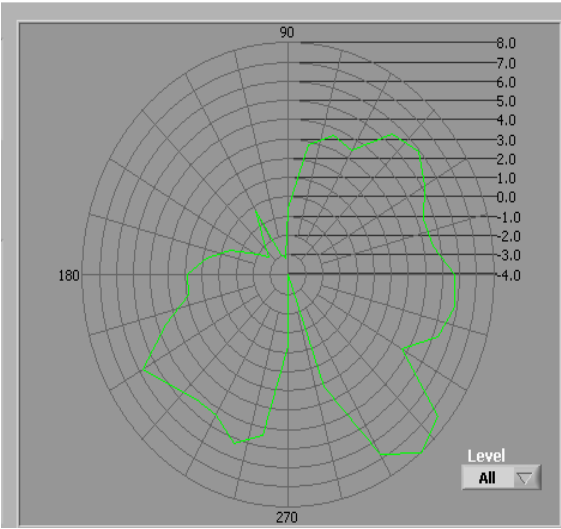
Vertical

Center Frequency	<b>2600 MHz</b>
Horizontal (dBi) peak	<b>-2.23</b>
Vertical (dBi) peak	<b>-3.06</b>

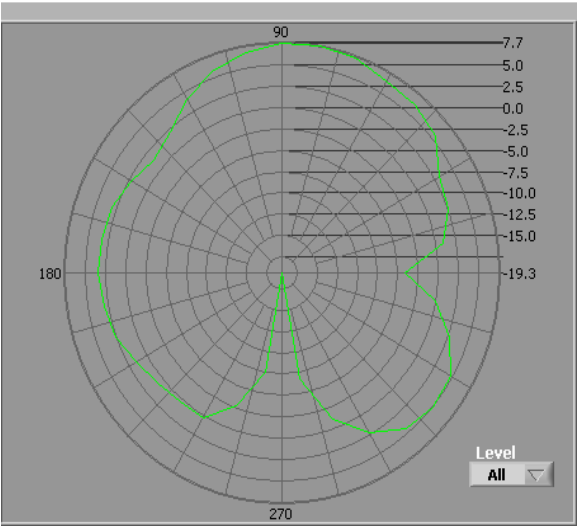
Tx1 antenna: 2700 MHz



Total



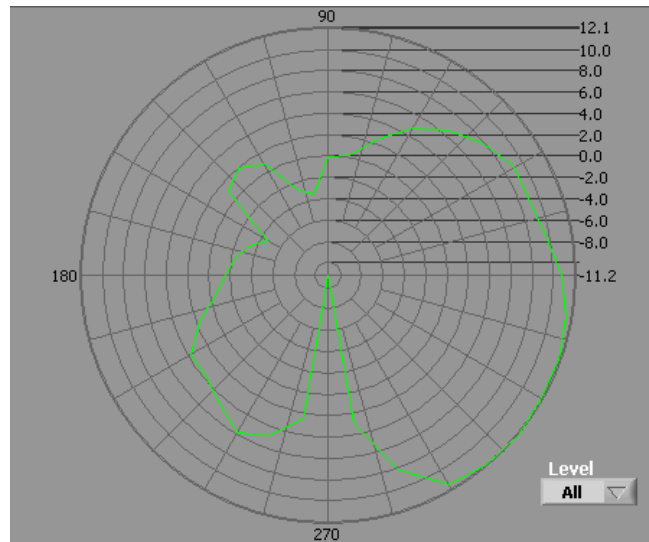
Horizontal



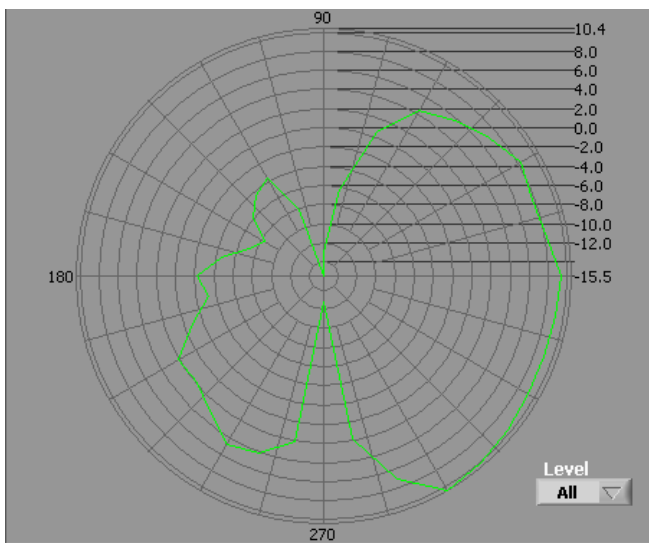
Vertical

Center Frequency	<b>2700 MHz</b>
Horizontal (dBi) peak	<b>-2.78</b>
Vertical (dBi) peak	<b>-2.19</b>

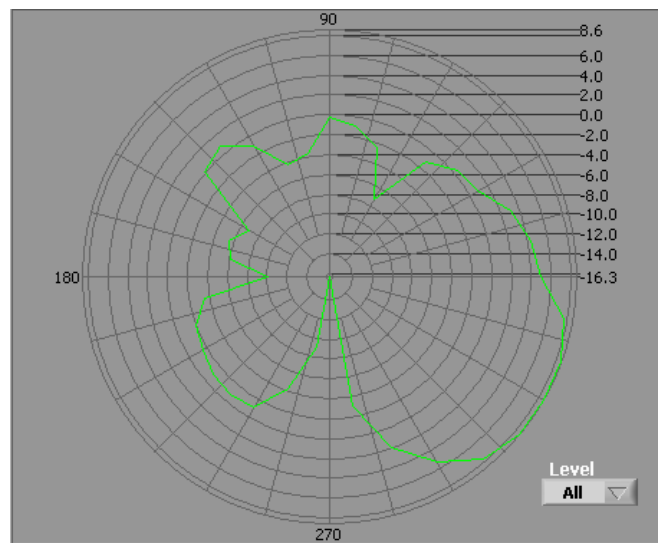
**Tx2 (or Rx2) antenna: 2500MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**



Total



Horizontal

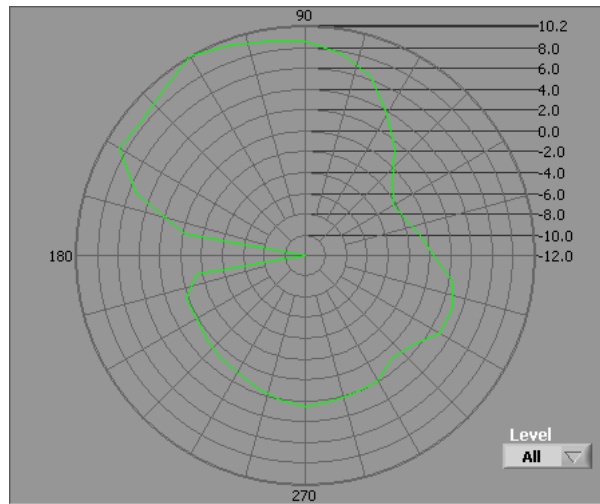


Vertical

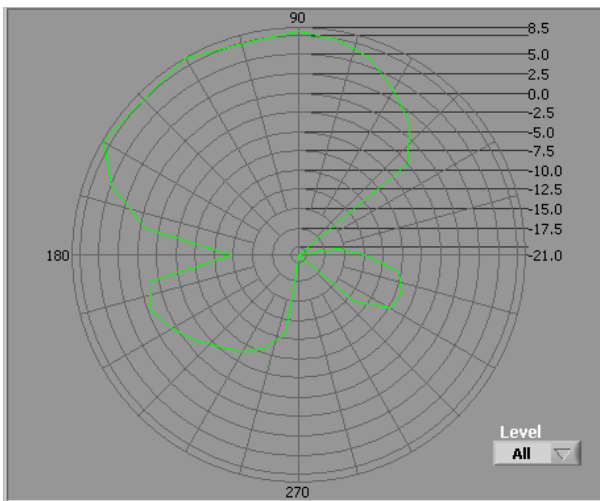
Center Frequency	<b>2500 MHz</b>
Horizontal (dBi) peak	<b>-2.33</b>
Vertical (dBi) peak	<b>-2.41</b>

**Tx2 (or Rx2) antenna: 2600MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**

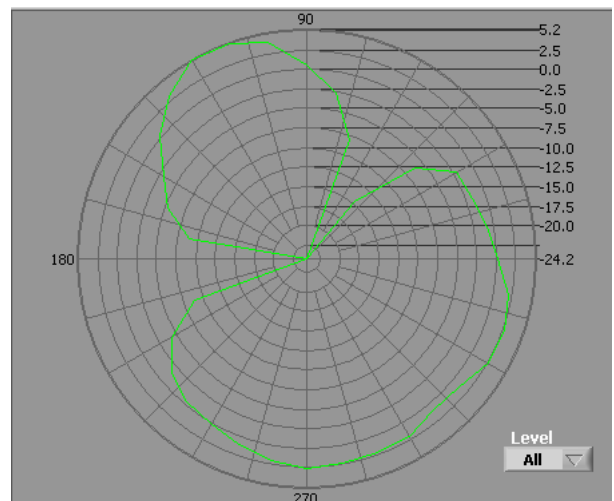
1



total



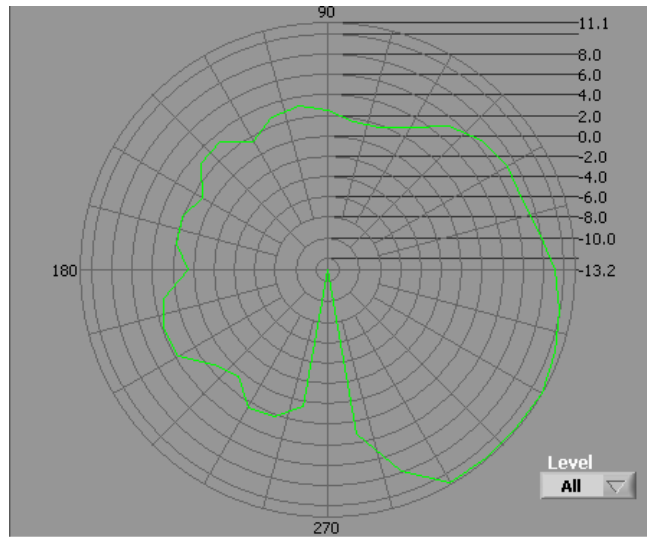
Horizontal



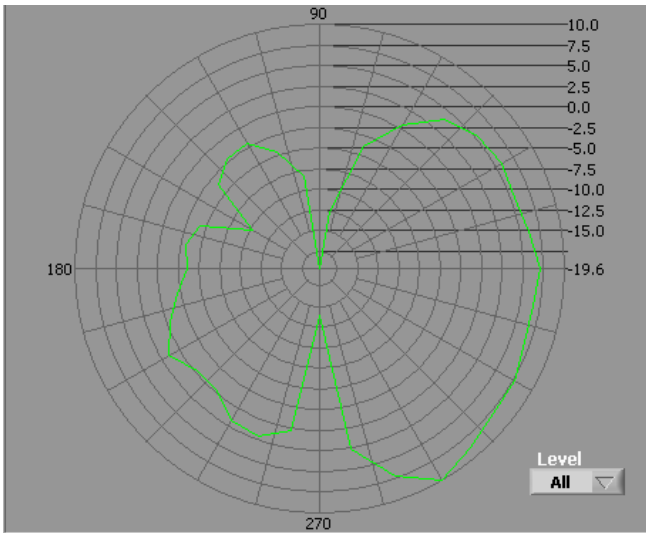
Vertical

Center Frequency	<b>2600 MHz</b>
Horizontal (dBi) peak	<b>-1.62</b>
Vertical (dBi) peak	<b>-5.19</b>

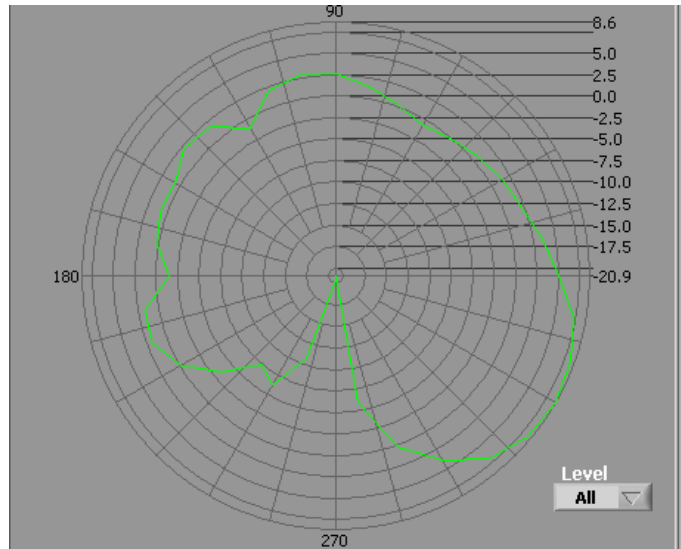
**Tx2 (or Rx2) antenna: 2700 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**



Total



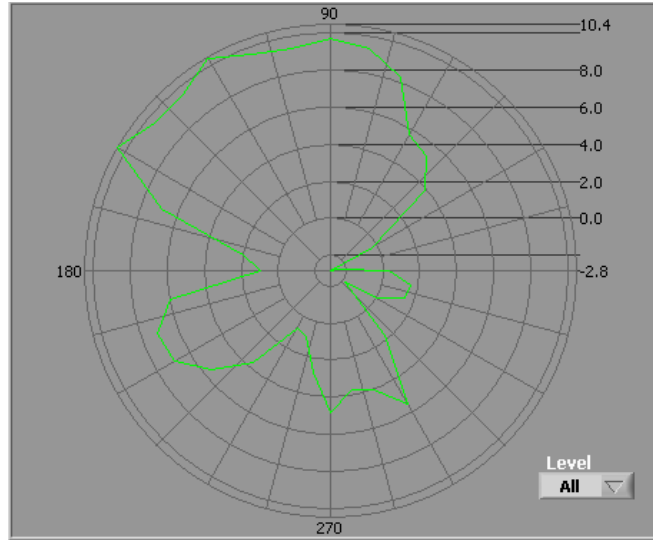
Horizontal



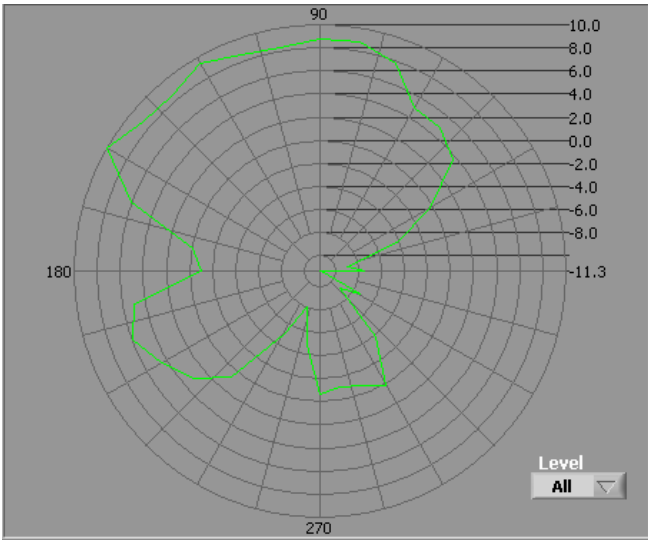
Vertical

Center Frequency	<b>2700 MHz</b>
Horizontal (dBi) peak	<b>-3.20</b>
Vertical (dBi) peak	<b>-2.54</b>

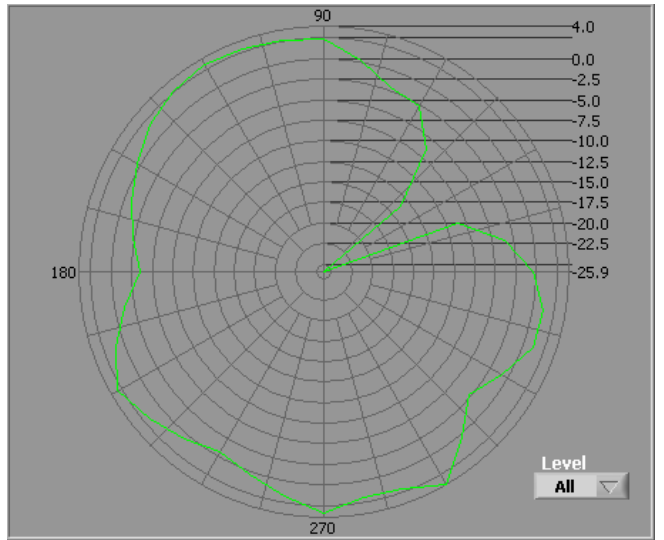
**Tx3 (or Rx3) antenna: 2500 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)**



Total



Horizontal

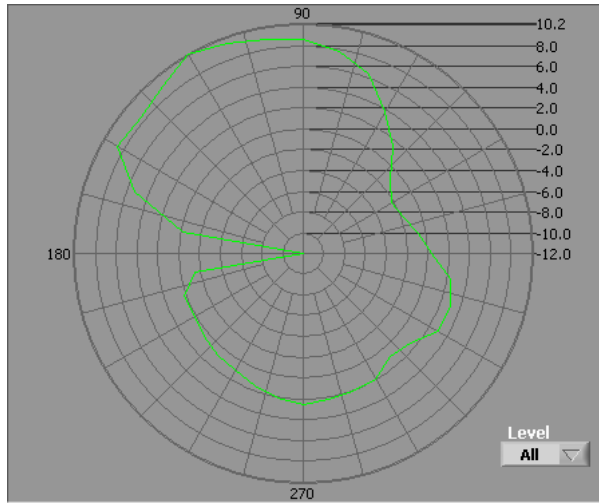


Vertical

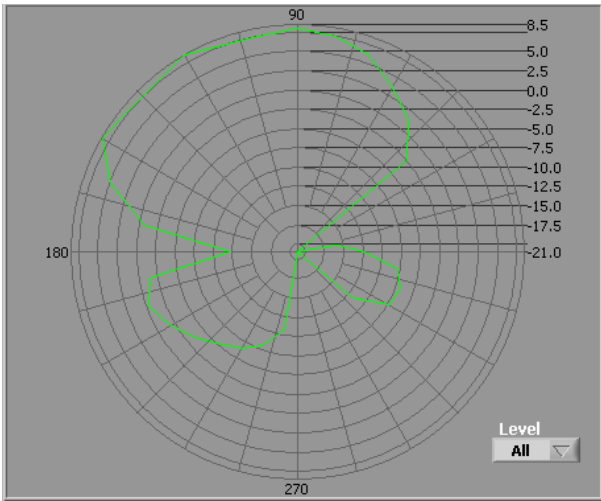
Center Frequency	<b>2500 MHz</b>
Horizontal (dBi) peak	<b>-2</b>
Vertical (dBi) peak	<b>-2.87</b>



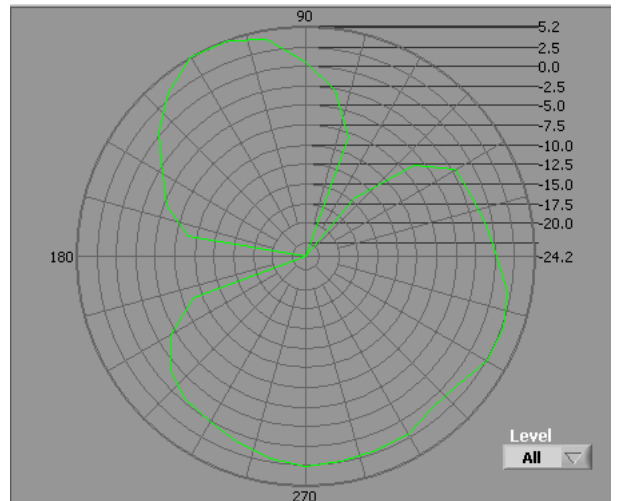
**Tx3 (or Rx3) antenna: 2600MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)**



Total



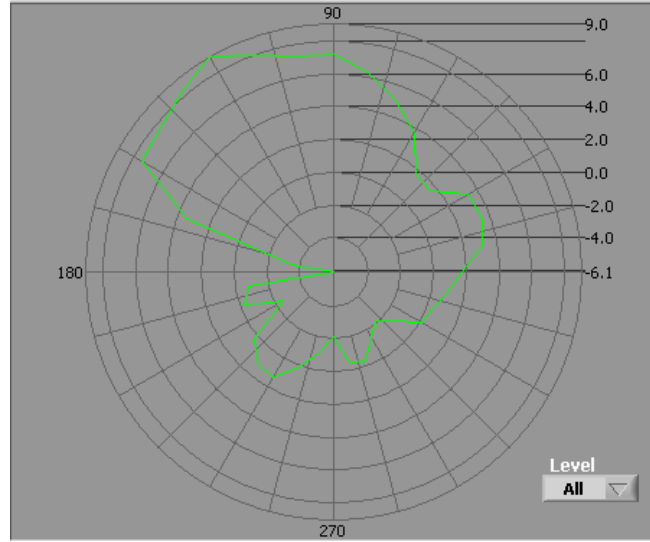
Horizontal



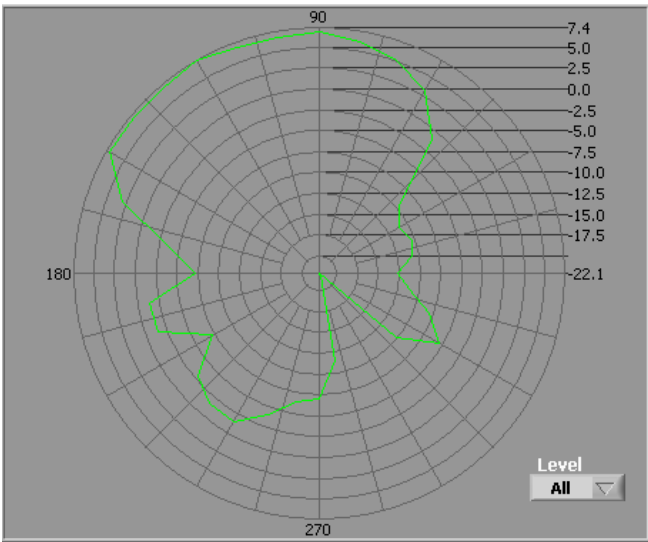
Vertical

Center Frequency	<b>2600 MHz</b>
Horizontal (dBi) peak	<b>-1.35</b>
Vertical (dBi) peak	<b>-3.63</b>

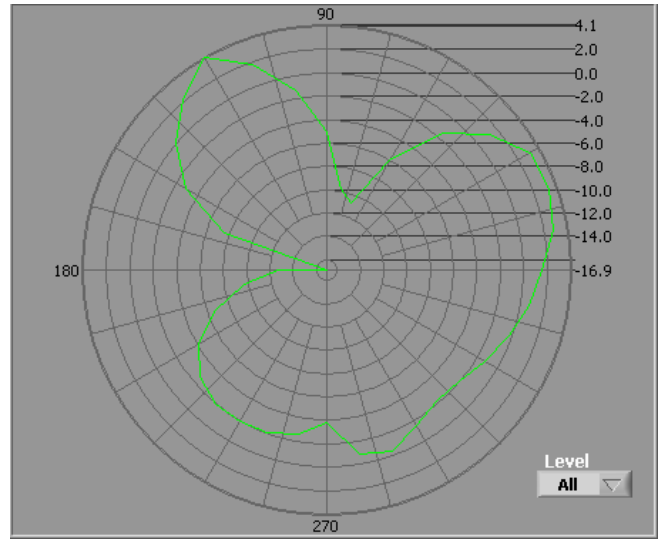
**Tx3 (or Rx3) antenna: 2700 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)**



Total



Horizontal



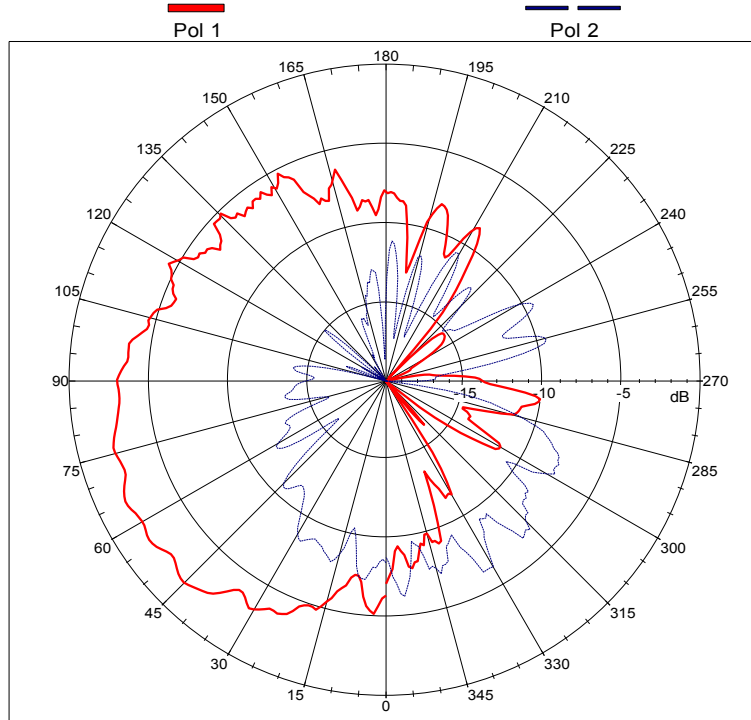
Vertical

Center Frequency	<b>2700 MHz</b>
Horizontal (dBi) peak	<b>-2.75</b>
Vertical (dBi) peak	<b>-3.1</b>

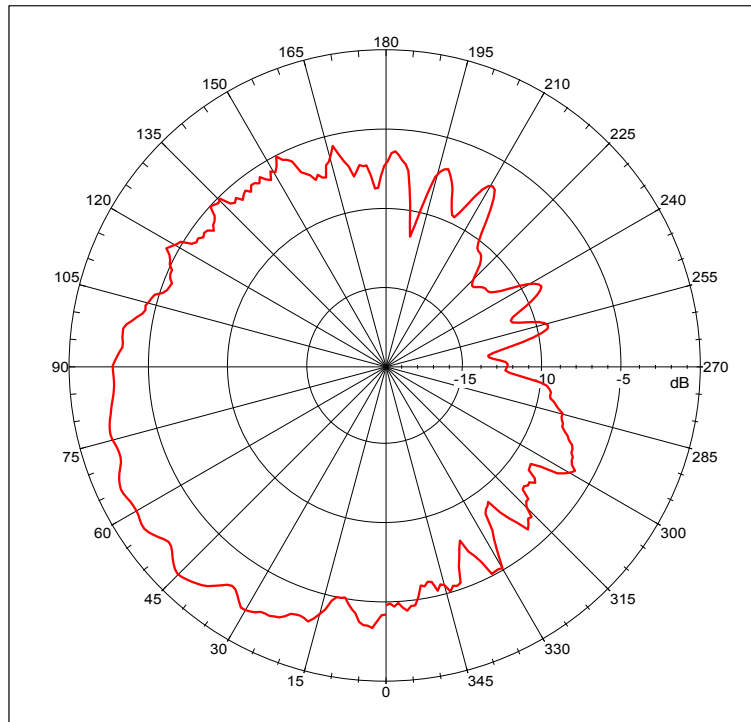
**5150-5350 MHz radiation characteristic**

**Tx1 antenna: 5150 MHz**

**Far-Field Phi Cut, Theta=90 f=5.1500 GHz**

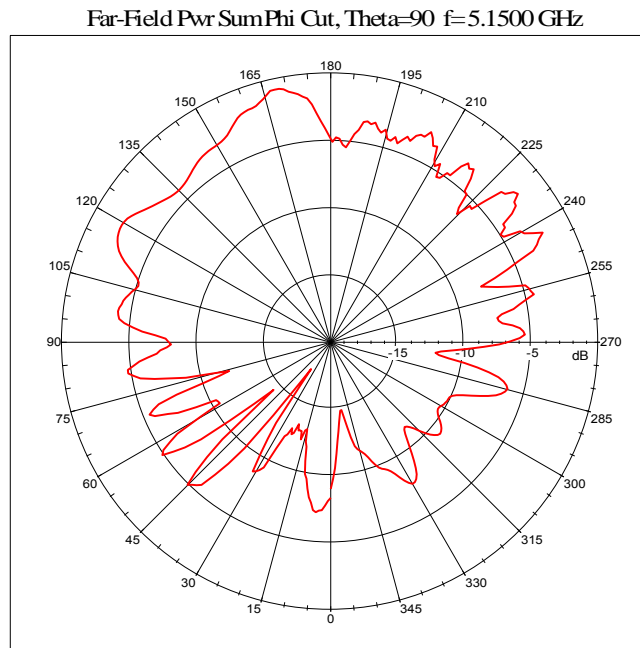
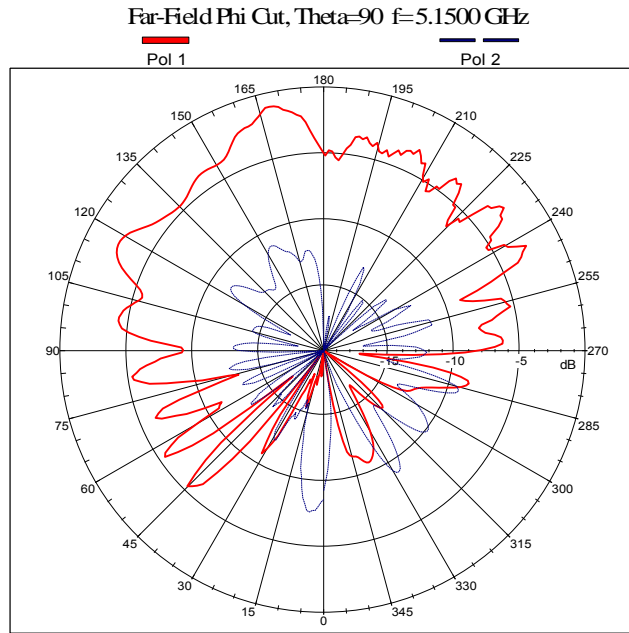


**Far-Field Pwr SumPhi Cut, Theta=90 f=5.1500 GHz**



Center Frequency	<b>5150 MHz</b>
Horizontal (dBi) peak	<b>-6.38</b>
Vertical (dBi) peak	<b>-1.88</b>

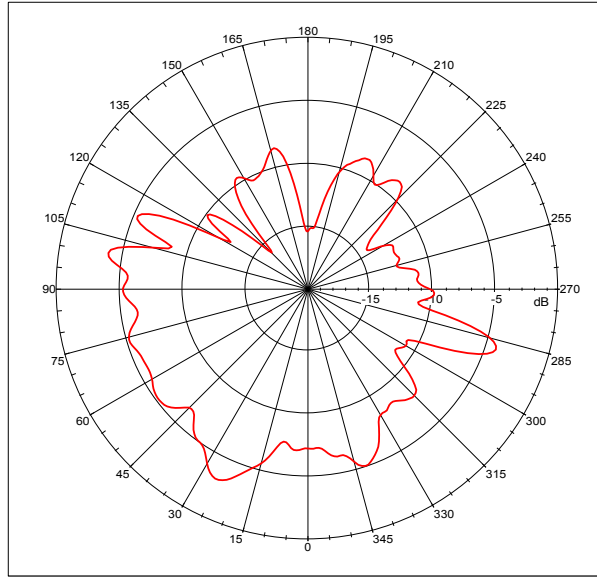
**Tx2 (or Rx2) antenna: 5150 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**



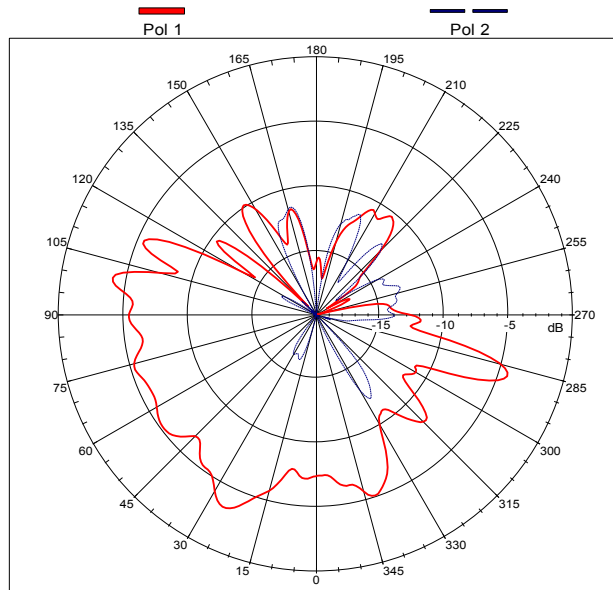
Center Frequency	<b>5150 MHz</b>
Horizontal (dBi) peak	-7.721
Vertical (dBi) peak	-1.071

**Tx3 (or Rx3) antenna: 5150 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)**

Far-Field Pwr SumPhi Cut, Theta=90 f=5.1500 GHz



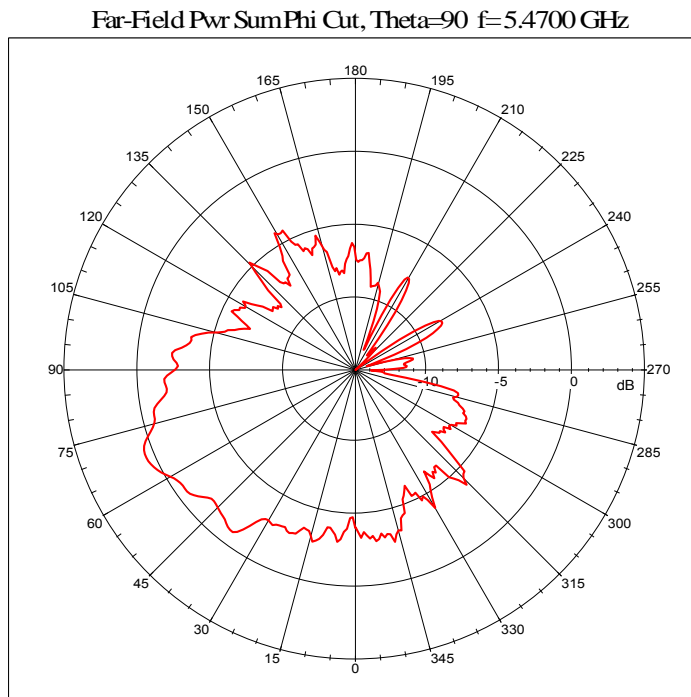
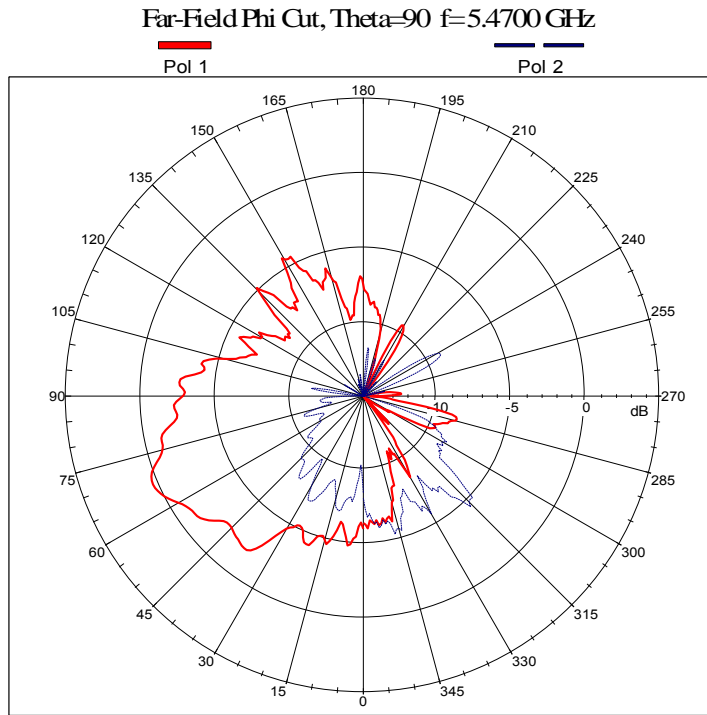
Far-Field Phi Cut, Theta=90 f=5.1500 GHz



Center Frequency	<b>5150 MHz</b>
Horizontal (dBi) peak	<b>-11.4</b>
Vertical (dBi) peak	<b>-3.46</b>

**5470-5725MHz radiation characteristic**

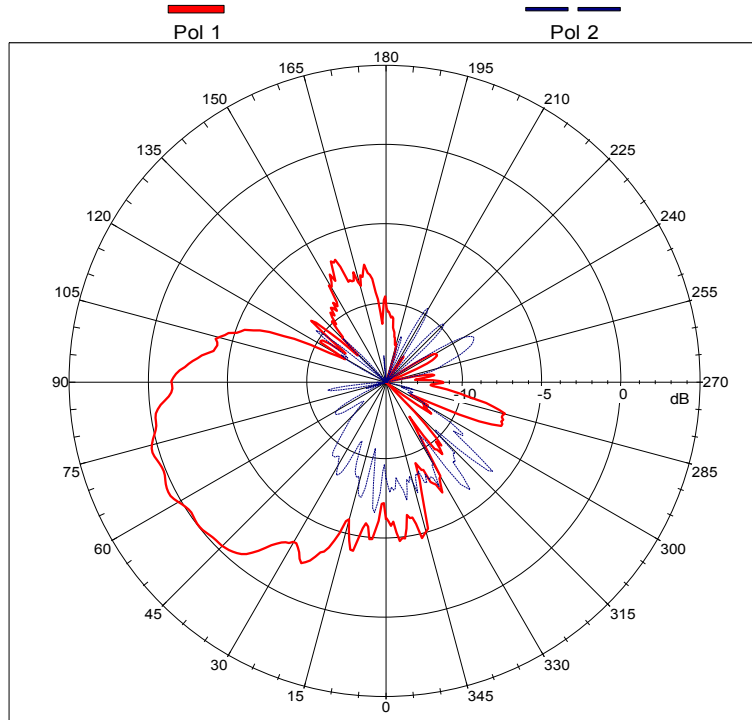
**Tx1 antenna: 5470 MHz**



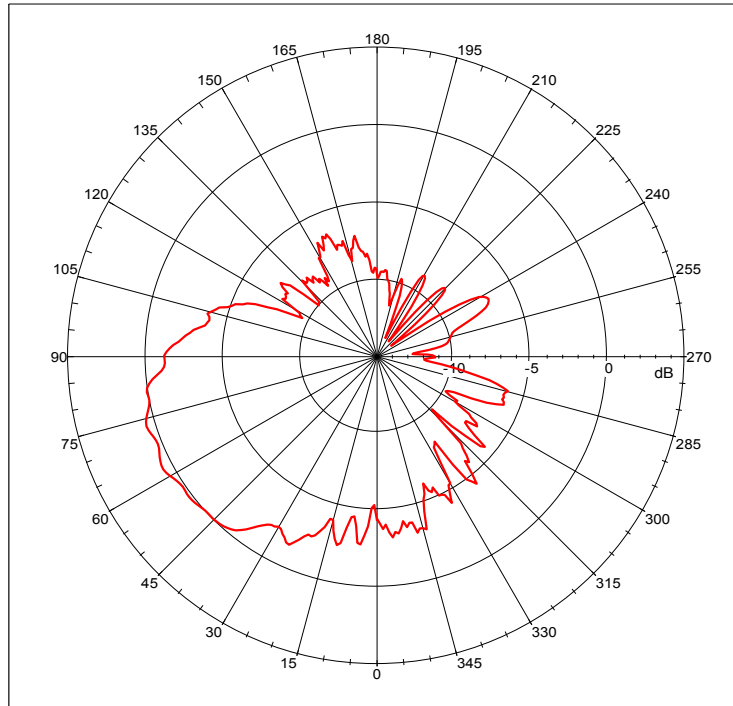
Center Frequency	<b>5470 MHz</b>
Horizontal (dBi) peak	<b>-4.66</b>
Vertical (dBi) peak	<b>0.30</b>

**Tx1 antenna: 5600 MHz**

**Far-Field Phi Cut, Theta=90 f=5.6000 GHz**

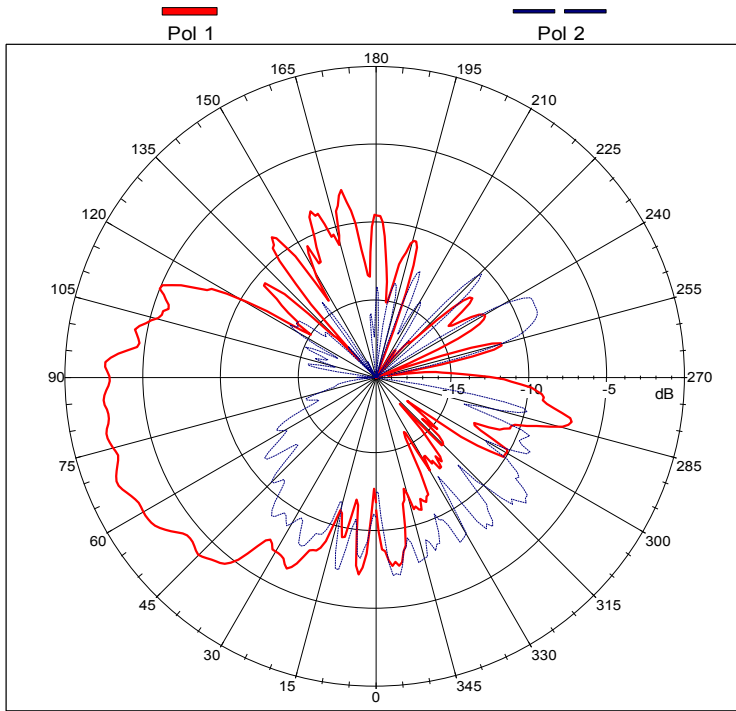


**Far-Field Pwr Sum Phi Cut, Theta=90 f=5.6000 GHz**

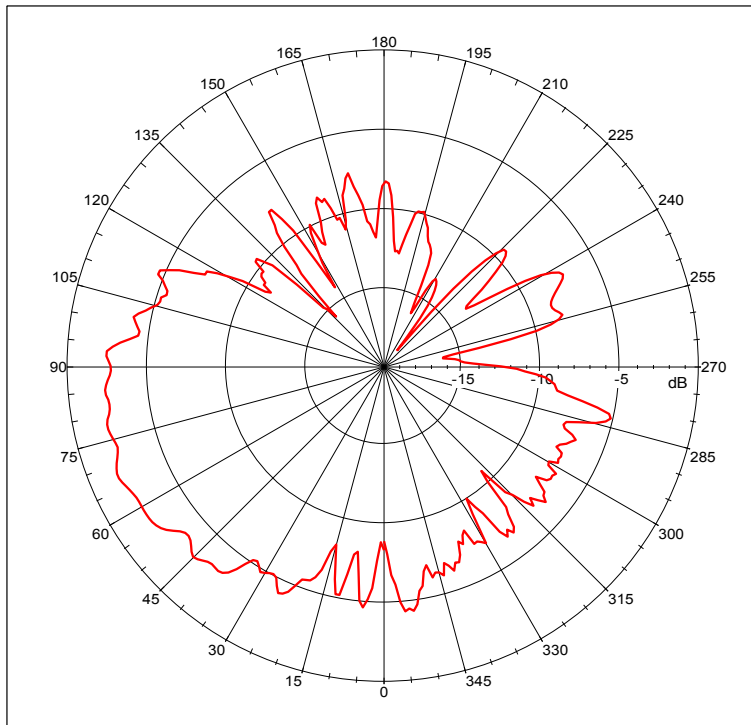


Center Frequency	<b>5600 MHz</b>
Horizontal (dBi) peak	<b>-6.23</b>
Vertical (dBi) peak	<b>0.40</b>

**Far-Field Phi Cut, Theta=90 f=5.7250 GHz**



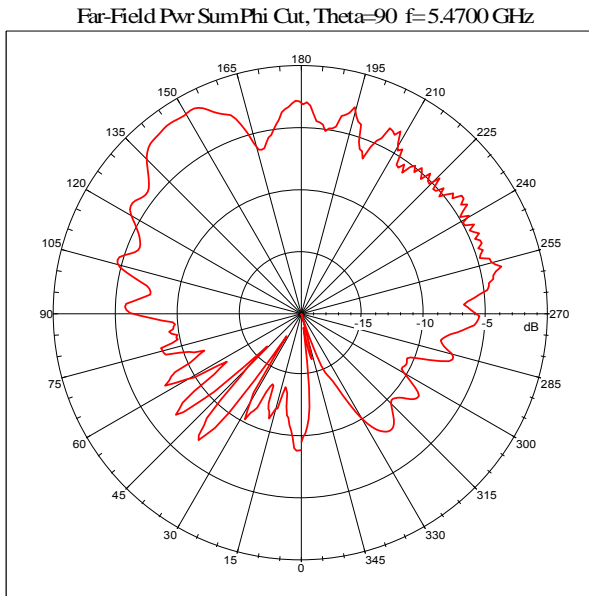
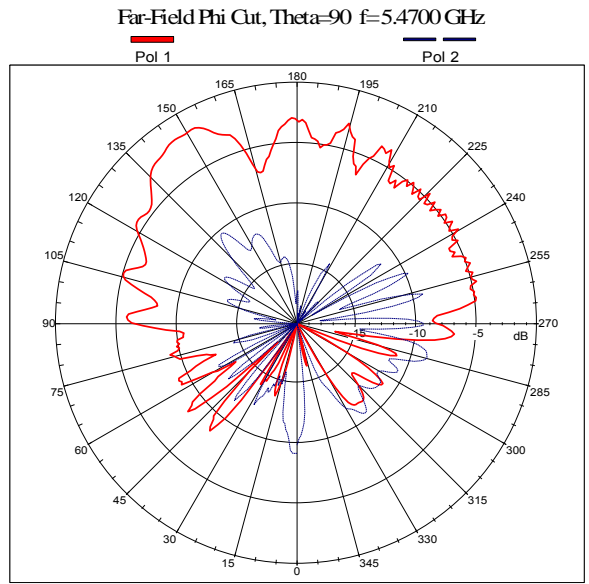
**Far-Field Pwr Sum Phi Cut, Theta=90 f=5.7250 GHz**



Center Frequency	<b>5725 MHz</b>
Horizontal (dBi) peak	<b>-7.23</b>
Vertical (dBi) peak	<b>-2.04</b>



**Tx2 (or Rx2) antenna: 5470 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**



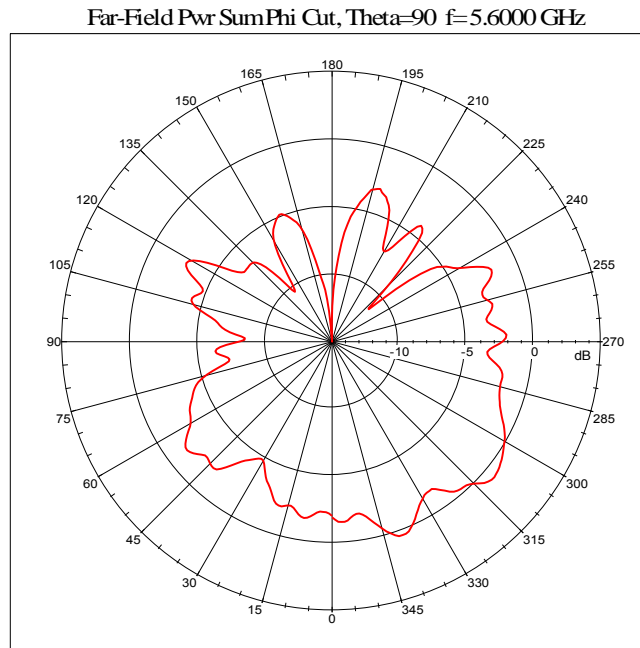
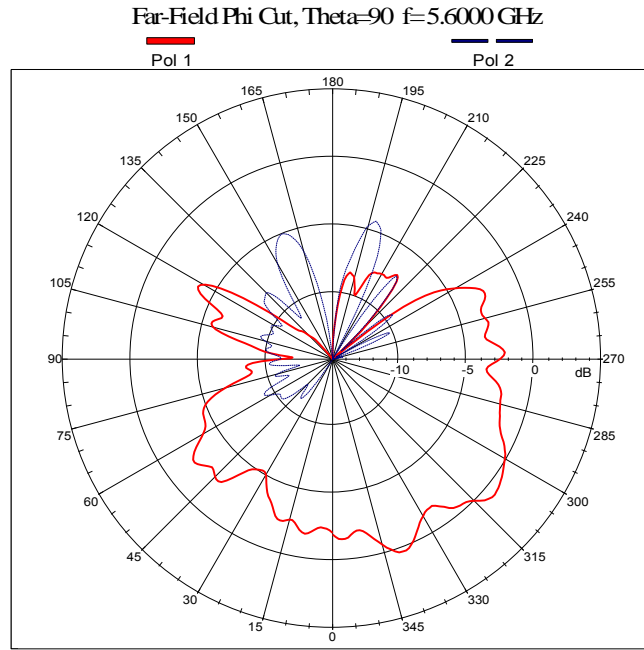
Center Frequency	<b>5470 MHz</b>
Horizontal (dBi) peak	<b>-8.86</b>
Vertical (dBi) peak	<b>-1.71</b>





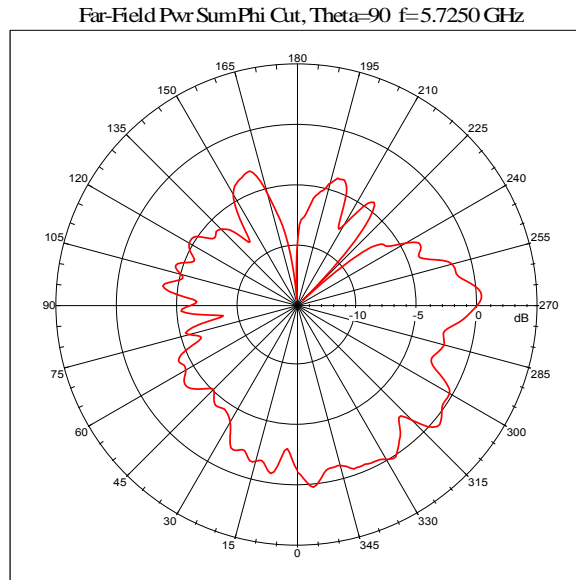
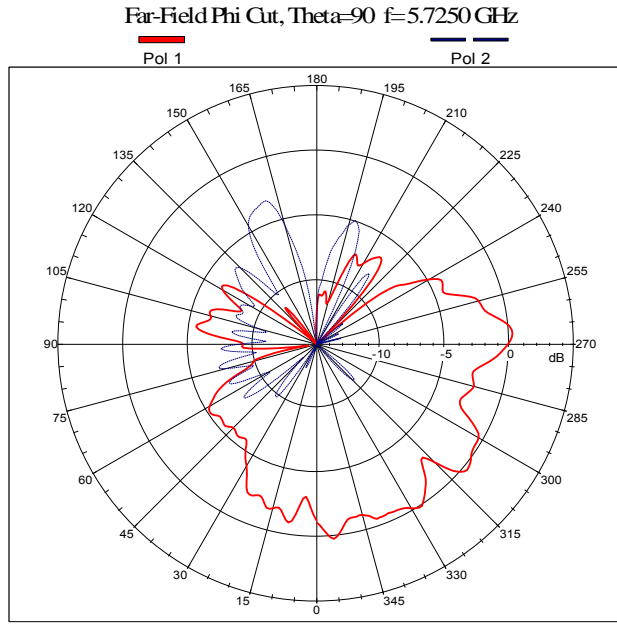


**Tx3 (or Rx3) antenna: 5600 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)**



Center Frequency	<b>5600 MHz</b>
Horizontal (dBi) peak	<b>-4.3</b>
Vertical (dBi) peak	<b>-0.64</b>

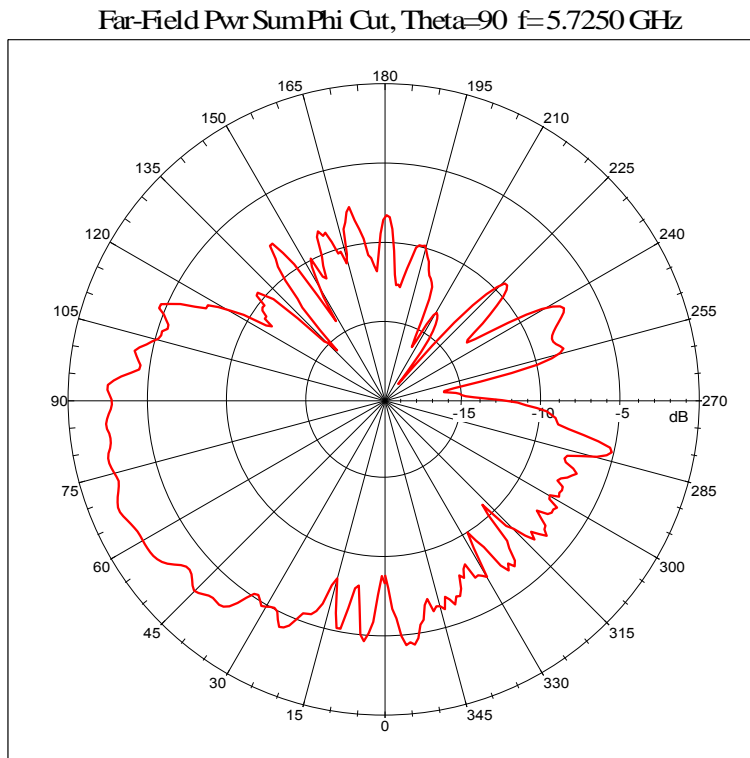
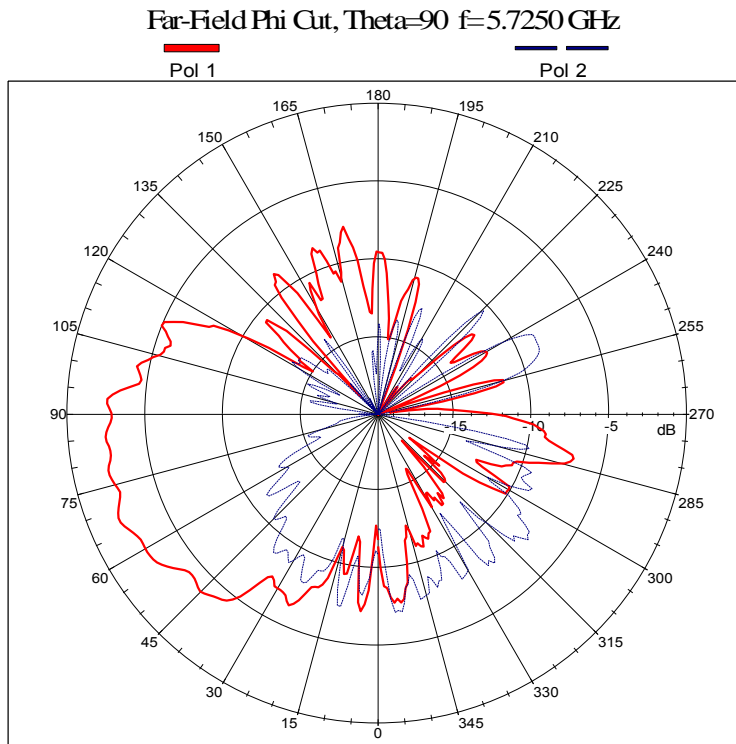
**Tx3 (or Rx3) antenna: 5750 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)**



Center Frequency	<b>5725 MHz</b>
Horizontal (dBi) peak	<b>-3.24</b>
Vertical (dBi) peak	<b>0.15</b>

**5725-5850 MHz radiation characteristic**

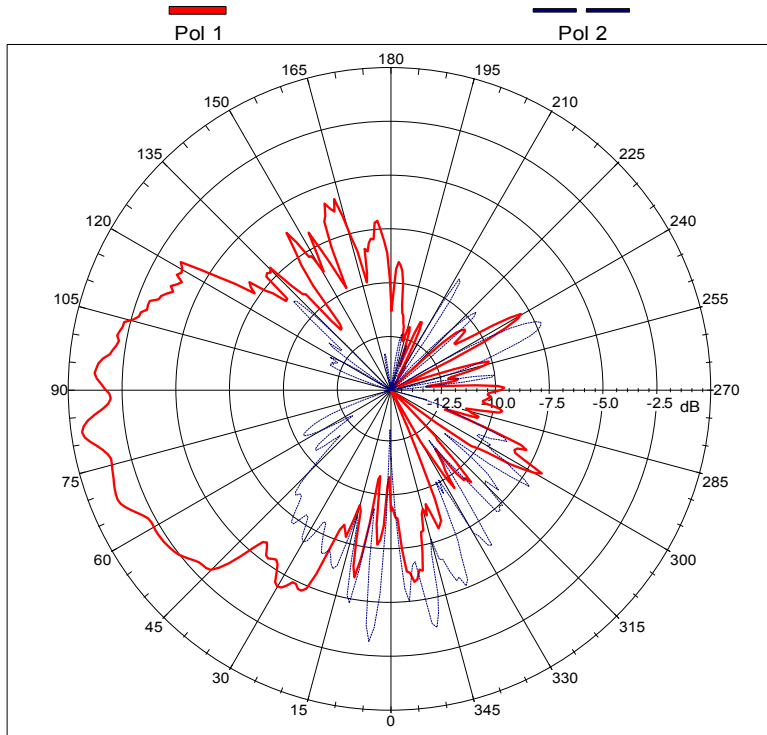
**Tx1 antenna: 5725 MHz**



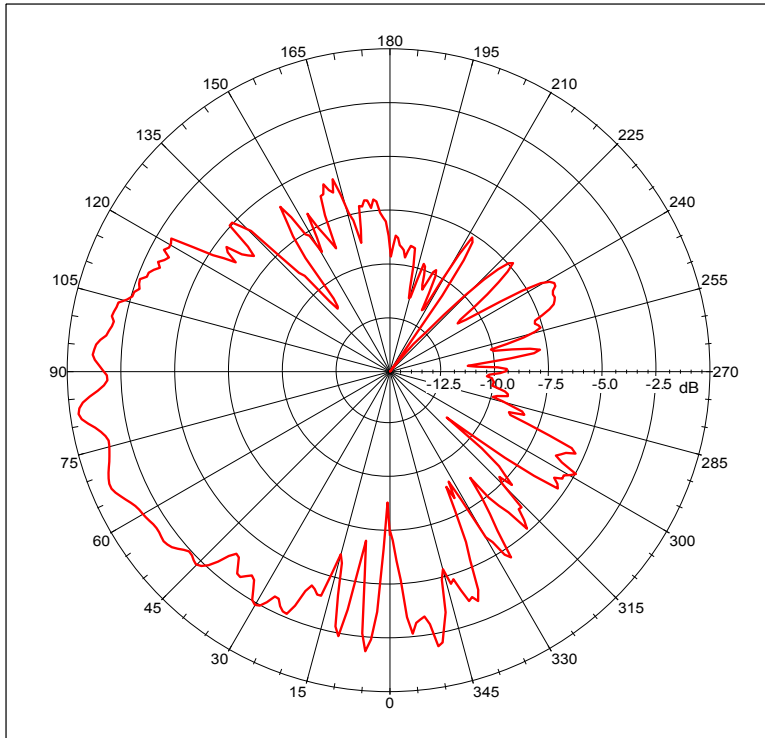
Center Frequency	<b>5725 MHz</b>
Horizontal (dBi) peak	<b>-7.23</b>
Vertical (dBi) peak	<b>-2.04</b>

**Tx1 antenna: 5850 MHz**

**Far-Field Phi Cut, Theta=90 f=5.8500 GHz**



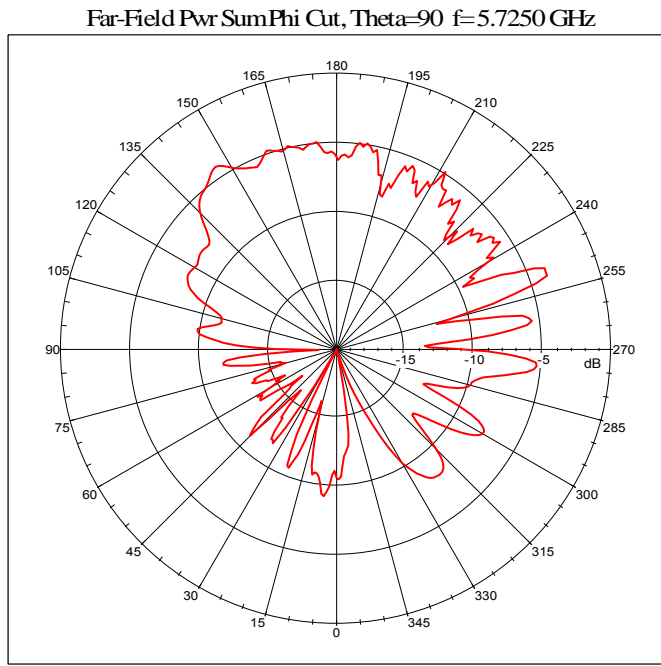
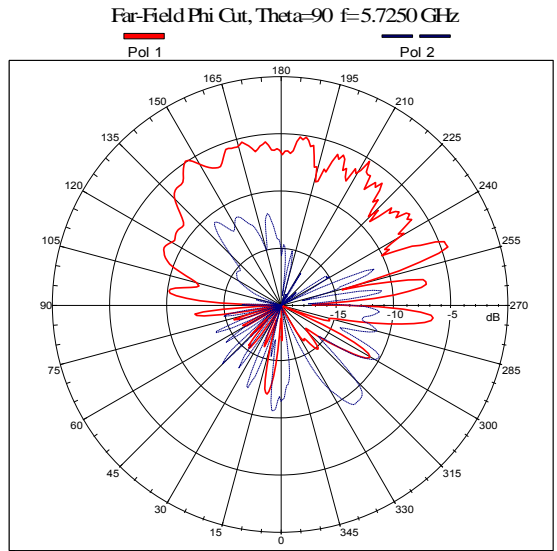
**Far-Field Pwr SumPhi Cut, Theta=90 f=5.8500 GHz**



Center Frequency	<b>5850 MHz</b>
Horizontal (dBi) peak	<b>-3.27</b>
Vertical (dBi) peak	<b>-0.52</b>



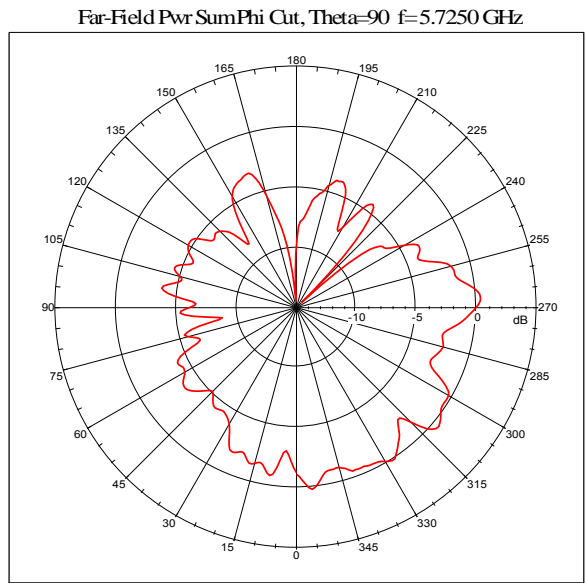
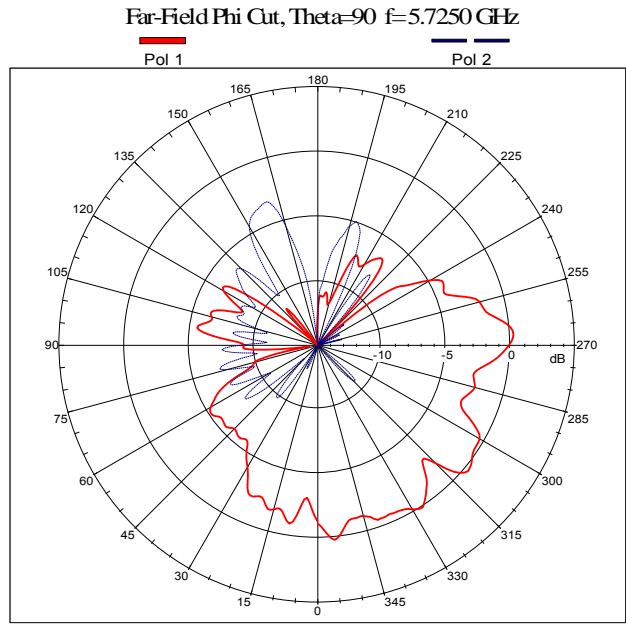
**Tx2 (or Rx2) antenna: 5725 MHz (Plot is not required if 2<sup>nd</sup> Antenna is receive only e.g. Rx2 for 512 family)**



Center Frequency	<b>5725 MHz</b>
Horizontal (dBi) peak	<b>-9.22</b>
Vertical (dBi) peak	<b>-4.55</b>

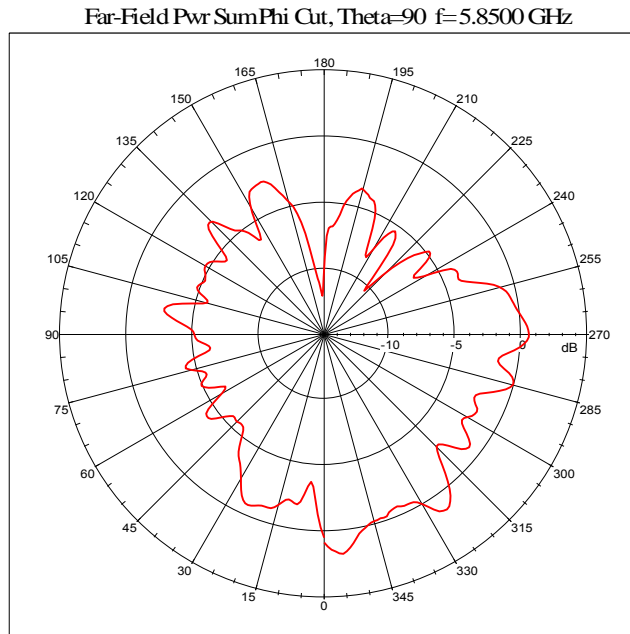
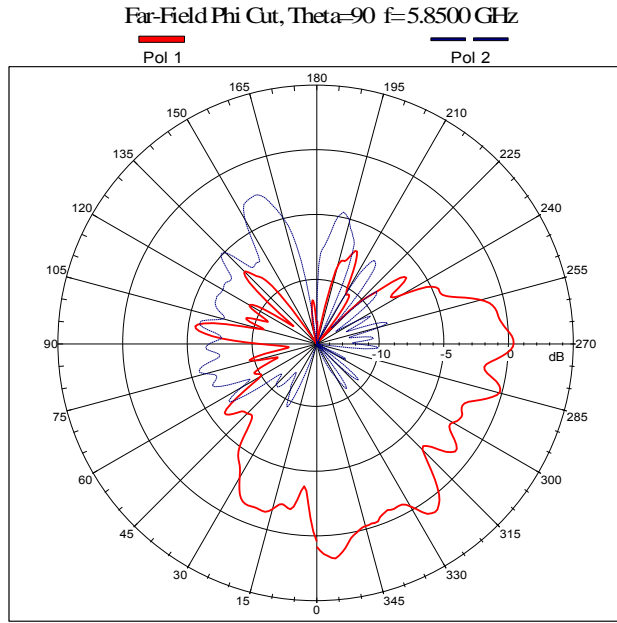


**Tx3 (or Rx3) antenna: 5725 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)**



Center Frequency	<b>5725 MHz</b>
Horizontal (dBi) peak	<b>-3.24</b>
Vertical (dBi) peak	<b>0.15</b>

**Tx3 (or Rx3) antenna: 5850 MHz (Plot is not required if 3<sup>rd</sup> Antenna is receive only e.g. Rx3 for 4965AGN)**



Center Frequency	<b>5850 MHz</b>
Horizontal (dBi) peak	<b>-2.57</b>
Vertical (dBi) peak	<b>-1.63</b>

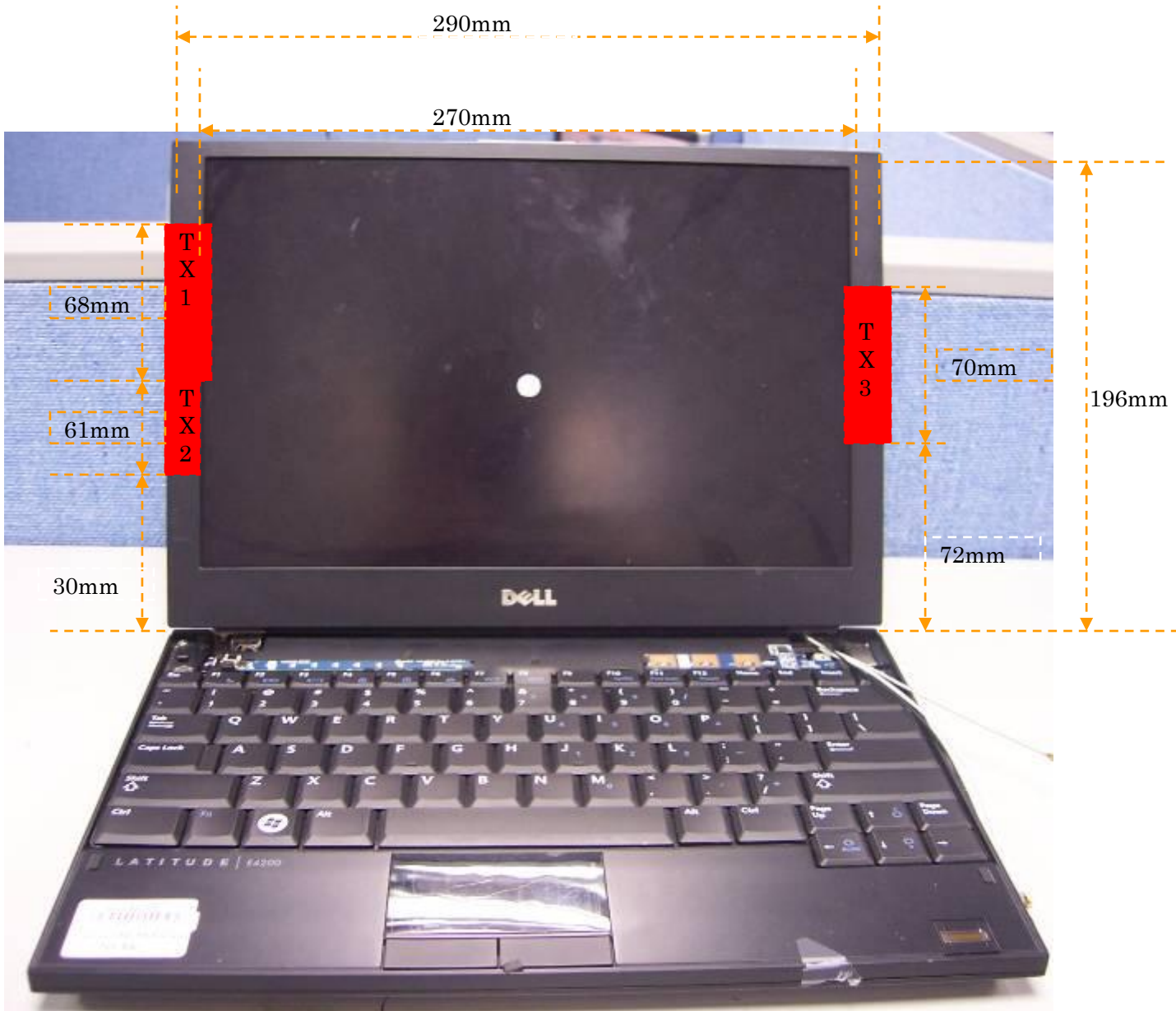
## Section 4. Host Platform Information

OEM / ODM Host platform: (XXXXXXX) platform correlated to antenna data

Rating Label Photo:

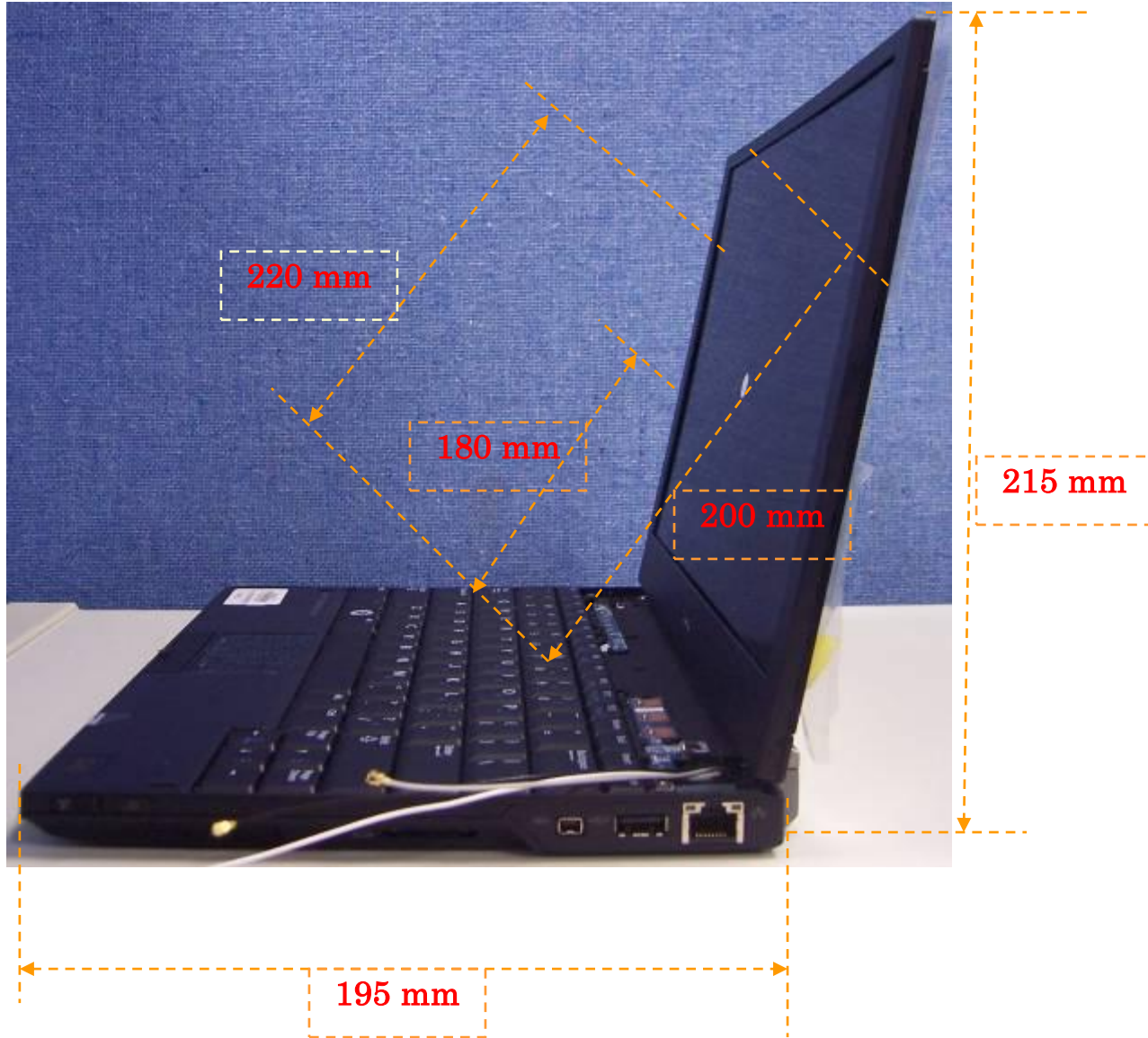
## Section 5. Antenna Host Platform Location Information

Include a **dimensioned photo or dimensioned drawing** of Tx1, Tx2 and Tx3 antenna placements (measurements are not required for receive-only antenna). Any antenna that transmits must show dimensions to bottom of laptop.



## Section 6. Antenna dimensional information for SAR evaluation

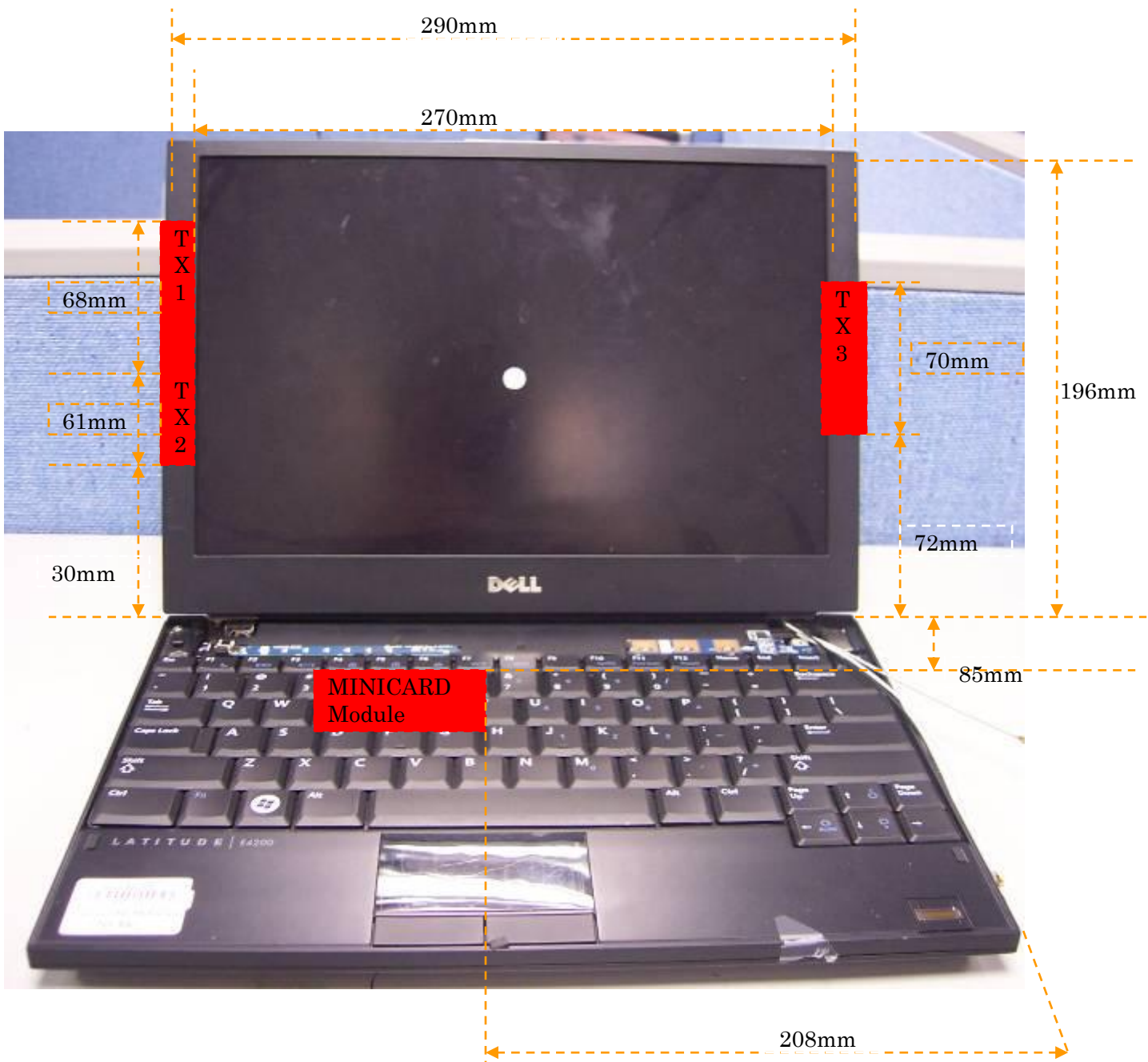
Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between the transmit antennas and the user (excluding hands, wrist, feet, lap/ thigh, and ankle)



## Section 7. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between all WLAN transmit antennas and other co-located radiator transmit antenna such as Bluetooth, WWAN,..

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)





## Section 8. Local representative contact information

Local representative contact information is required for regulatory support for target countries below.

	Local company name	Contact name	Phone number	FAX Number	e-Mail Address	Notes
Argentina						
Brazil						
Indonesia						
Israel	Galtronics LTD	Doron Kenigsbuch	+972-46-739-812	+972-46-734-138	Doron.kenigsbuch@galtronics.coml	
Malaysia						
Mexico						
Singapore						Telecommunication Equipment Dealer License Required
South Africa						
USA, Canada						