

Regulatory WLAN Antenna Information

Platform information										
Brand		ODM		RMN		Intel platform (ex: Yes, No or NA)		Platform type (ex: regular NB, convertible PC, AIO...etc)		*SAR minimum separation (mm)
HP Inc.		Compal		TPN-C175		Yes		Convertible PC		2.4
*****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.										
Antenna information										
Vendor			Type			Antenna Part number (Main/Tx2)		Antenna Part number (Aux/Tx1)		
INPAQ			PIFA			DC33002X810 (WA-P-LE-02-225)		DC33002X800 (WA-P-LE-02-226)		
Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	2.73	2.41	2.41	2.24	1.78	0.55	1.6	0.73	2.49	2.96
Aux	2.58	2.84	2.84	2.91	2.91	2.08	2.97	0.69	1.99	2.64
Module Information										
Model		Form factor and suffixes								
MT7922A22M		Mediatek Tequini2 RZ616 Wi-Fi 6E +Bluetooth 5.3 M.2 2230 AIM-T 160MHz PCI-e+USB WW WLAN								
MT7925B22M		Mediatek Torres MT7925 M.2 2230 Wi-Fi 7 +Bluetooth 5.4 WW WLAN								
Antenna vendor Address										
No. 11, Keyi St., 11th Neighborhood, Gongyi Vil., Zhunan Township, Miaoli County 350402, Taiwan (R.O.C.)										

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1. Applicable test methods

ETS-Lindgren AMS-8500 system is 3D fully anechoic chamber, it is applied to the “Conical Cut test method”, the detail description is described as below.

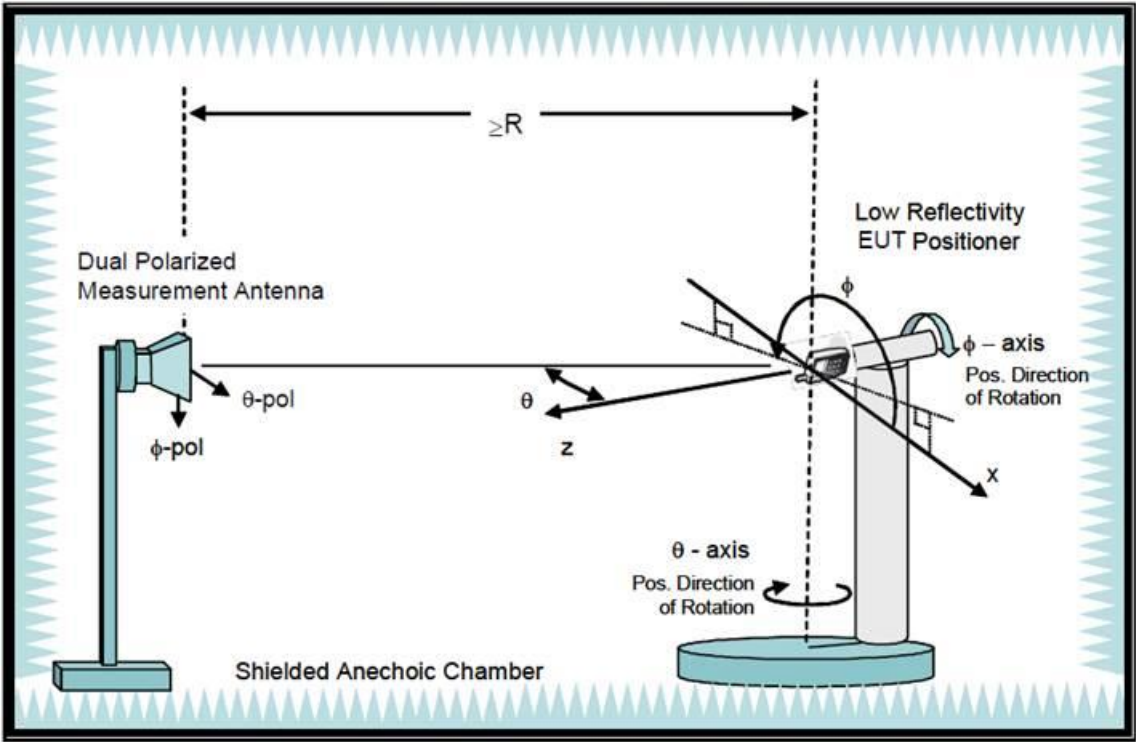
The Conical Cut method requires the ability of the Measurement Antenna to be physically rotated in the theta plane (overhead) of the EUT for implementations using a single Measurement Antenna, Eleven conical cuts are required to capture data at every 15 degrees from the EUT, with the top (0 degrees) and bottom (180 degrees) cuts not being measured. Typically, the EUT will remain affixed to a turntable during the entire measurement process. The Measurement Antenna will be positioned at a starting theta angle. The EUT will then be rotated around the full 360 degrees of phi rotation. The Measurement Antenna will then be positioned at the next theta angle, and the process repeated.

		θ -Axis	Φ -Axis
Passive	Step size	15°~165° step: 15°	0°~345° step: 15°
	N / M (Points)	12	24

2. Test & System Description

a. Test setup

Typical Setup for ETS-Lindgren AMS-8500:



b. Equipment list

Anechoic Chamber

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Network analyzer	Agilent	E5071C	2023/01/07	2024/01/06
Measurement software	ETS-Lindgren	EMQuest	2023/03/03	2024/03/03
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2115	2023/03/03	2024/03/03
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2110	2023/03/03	2024/03/03
MAPSTM controller	ETS-Lindgren	EMCO 2090	2023/03/03	2024/03/03
Horn antenna	ETS-Lindgren	3164-10	2023/03/03	2024/03/03
Cable 40cm 18 GHz	Jmtt	201EH012010400	2023/04/07	2024/04/07
Cable 6m 18 GHz	Jmtt	201EH012016000	2023/04/07	2024/04/07
Cable 6m 18 GHz	Jmtt	201EH012016000	2023/04/07	2024/04/07
Cable 3.5m 18 GHz	Jmtt	201EH012013500	2023/04/07	2024/04/07
Cable 1.5m 18 GHz	Jmtt	201EH012011500	2023/04/07	2024/04/07

Antenna Information

Section 1. Antenna Assembly Specifications

1A	1B	1C	1D		1E	1F	1G	1H
Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	* Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
P/N: DC33002X810 (WA-P-LE-02-225) Main Antenna (TX2)	INPAQ	PIFA	50 ohm Coaxial length:430mm diameter: 1.37mm Connector Type: IPEX MHF-4L 20632-001R-37	2400-2495	2.73	3.73	3.00 MAX	1.00
				5150-5250	2.41	3.90	3.00 MAX	1.49
				5250-5350	2.41	3.92	3.00 MAX	1.51
				5470-5725	2.24	3.78	3.00 MAX	1.54
				5725-5850	1.78	3.34	3.00 MAX	1.56
				5850-5895	0.55	2.13	3.00 MAX	1.58
				5925-6425	1.60	3.24	3.00 MAX	1.64
				6425-6525	0.73	2.40	3.00 MAX	1.67
				6525-6875	2.49	4.20	3.00 MAX	1.71
				6875-7125	2.96	4.73	3.00 MAX	1.77
P/N: DC33002X800 (WA-P-LE-02-226) Aux Antenna (TX1)	INPAQ	PIFA	50 ohm Coaxial length: 515mm diameter: 1.37mm Connector Type: IPEX MHF-4L 20632-001R-37	2400-2495	2.58	3.41	3.00 MAX	0.84
				5150-5250	2.84	4.09	3.00 MAX	1.25
				5250-5350	2.84	4.11	3.00 MAX	1.27
				5470-5725	2.91	4.22	3.00 MAX	1.31
				5725-5850	2.91	4.25	3.00 MAX	1.34
				5850-5895	2.08	3.43	3.00 MAX	1.35
				5925-6425	2.97	4.42	3.00 MAX	1.45
				6425-6525	0.69	2.17	3.00 MAX	1.48
				6525-6875	1.99	3.53	3.00 MAX	1.54
				6875-7125	2.64	4.25	3.00 MAX	1.61

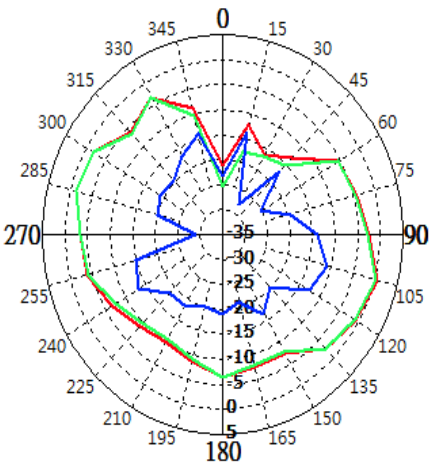
Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

Max Antenna 2D Radiation Pattern 2400 – 2495 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2400-2495	2.73

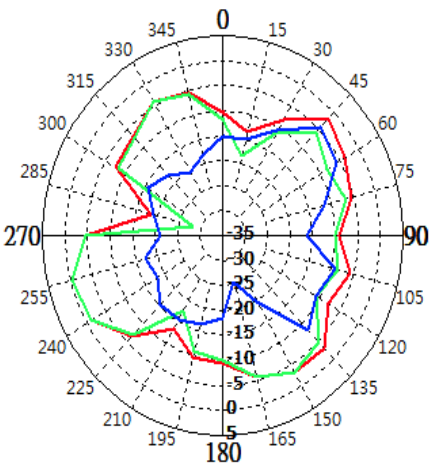
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- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5150-5250	2.41

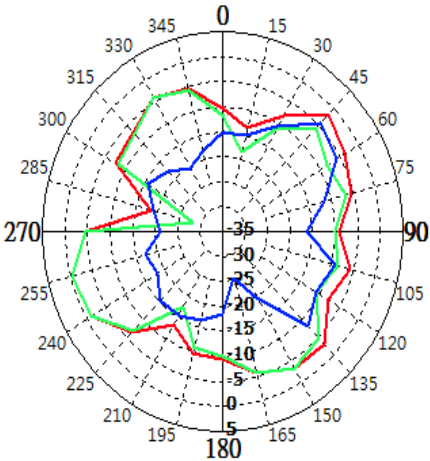
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- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5250-5350	2.41

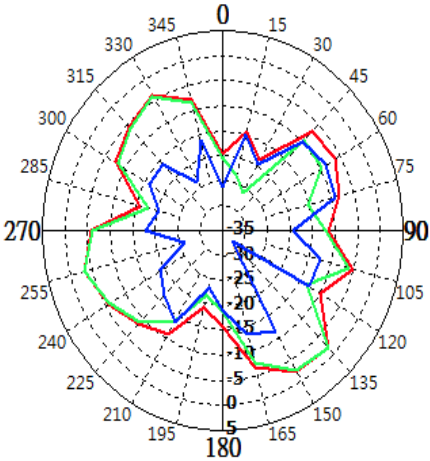
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- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5470-5725	2.24

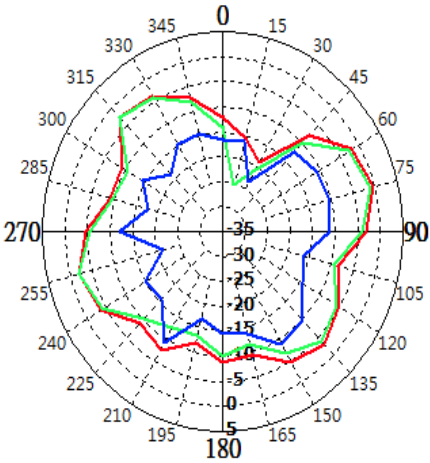
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5725-5850	1.78

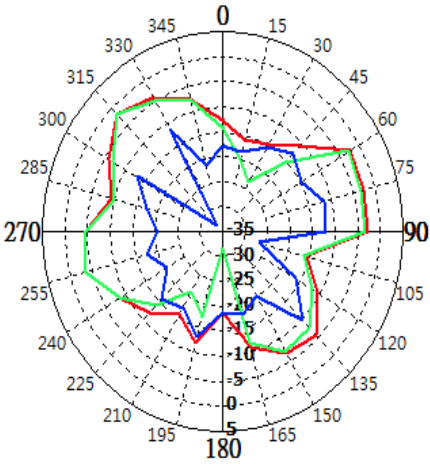
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5850-5895	0.55

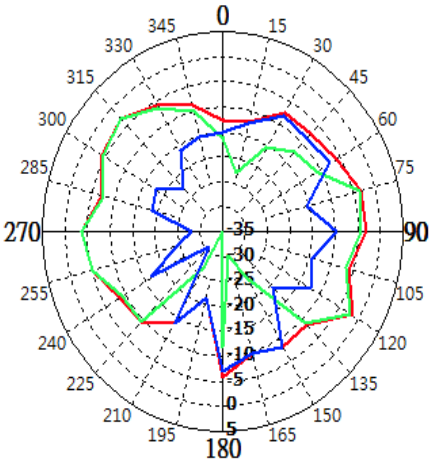
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5925-6425	1.60

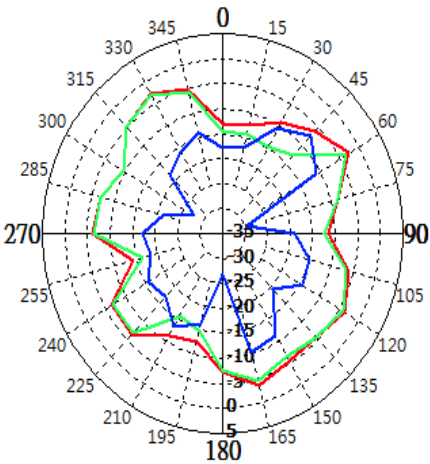
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6425-6525	0.73

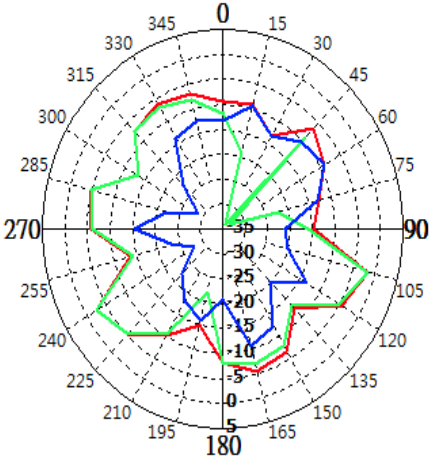
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6525-6875	2.49

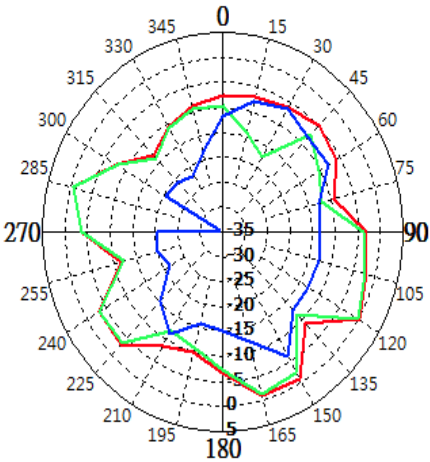
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6875-7125	2.96

- TOTAL
- H_POL
- V_POL

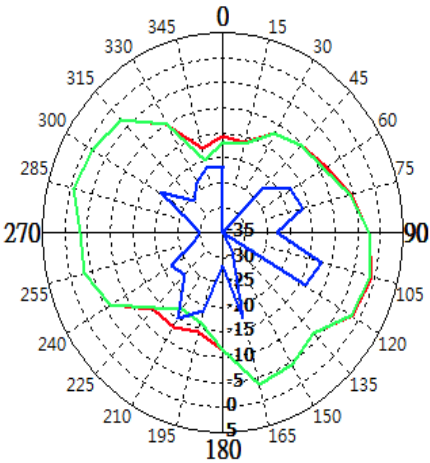


Auxiliary Antenna

Max Antenna 2D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
2400-2483.5	2.58

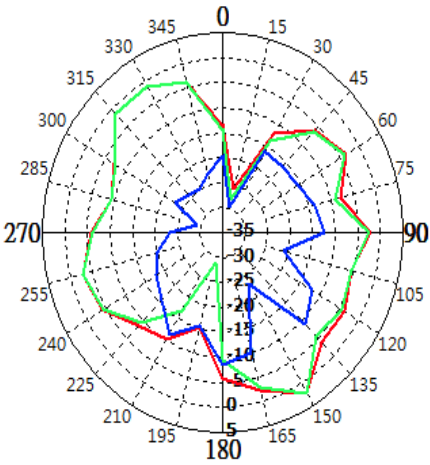
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5150-5250	2.84

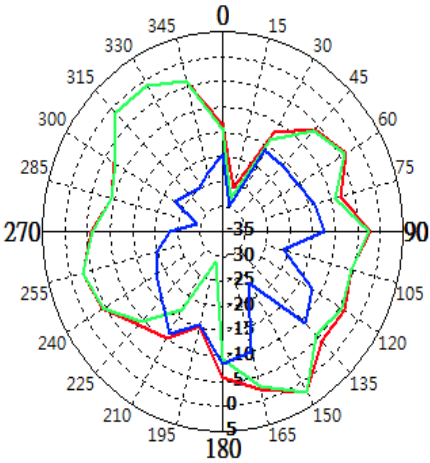
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5250-5350	2.84

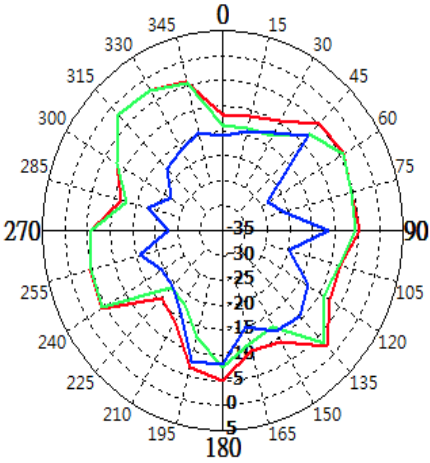
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5470-5725	2.91

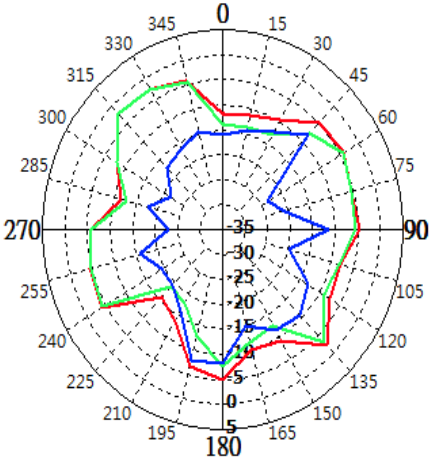
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5725-5850	2.91

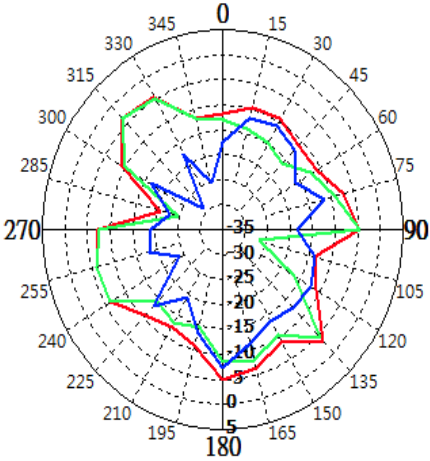
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5850-5895	2.08

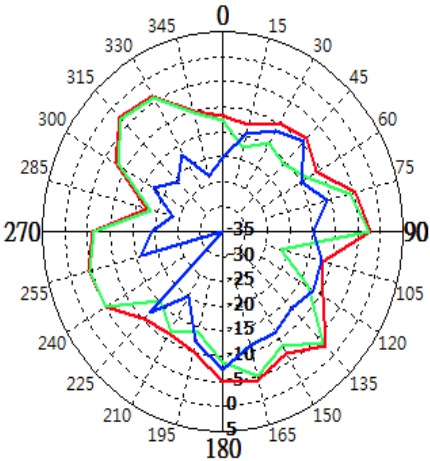
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
5925-6425	2.97

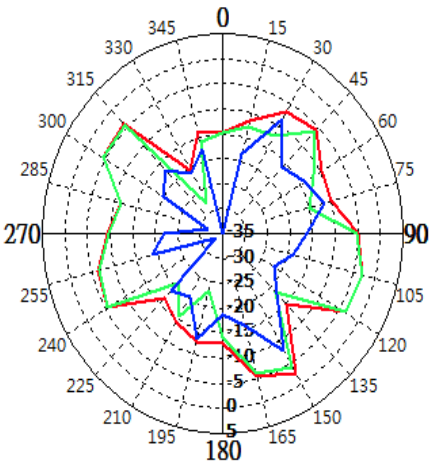
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6425-6525	0.69

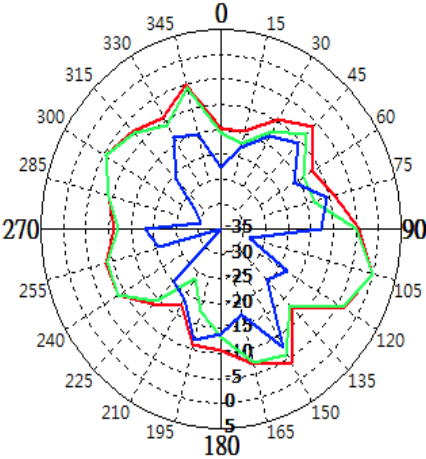
- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6525-6875	1.99

- TOTAL
- H_POL
- V_POL



Max Antenna 2D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Horizontal+ Vertical (dBi) peak (dBi)
6875-7125	2.64

- TOTAL
- H_POL
- V_POL

