

品名：RFPCA430919EMLB301

History List

[illegible]

品名：RFPCA430919EMLB301

1. Explanation of part number：

RF	PCA	4309	19	E	M	L	B	3	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 2924 Length 29.6mm, Width 24.7mm	2 digits for cable length e.g.: 40 Length 40cm	A: N C: MCX D: IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U: MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band W: WCDMA band	B: MP T: During Test X: Pile Run	0: None 1: $\varnothing$ 0.81 2: $\varnothing$ 1.32 3: $\varnothing$ 1.13 4: Low Loss $\varnothing$ 1.13 5: $\varnothing$ 0.5 6: RG316 7: $\varnothing$ 1.37 8: RG178 9: Low Loss $\varnothing$ 1.37	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4 ~ 2.5 / 5.15 ~ 5.85 GHz
Return Loss	-10 dB(Max)
Gain(peak)	3.24 dBi@2.4~2.5 GHz 3.41 dBi@5.15~5.85 GHz
VSWR	2 max.
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20℃ ~ +65℃

UNLESS OTHER SPECIFIED TOLERANCES ON :
X=N/A X.X=N/A X.XX=N/A
ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 李欣樺

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

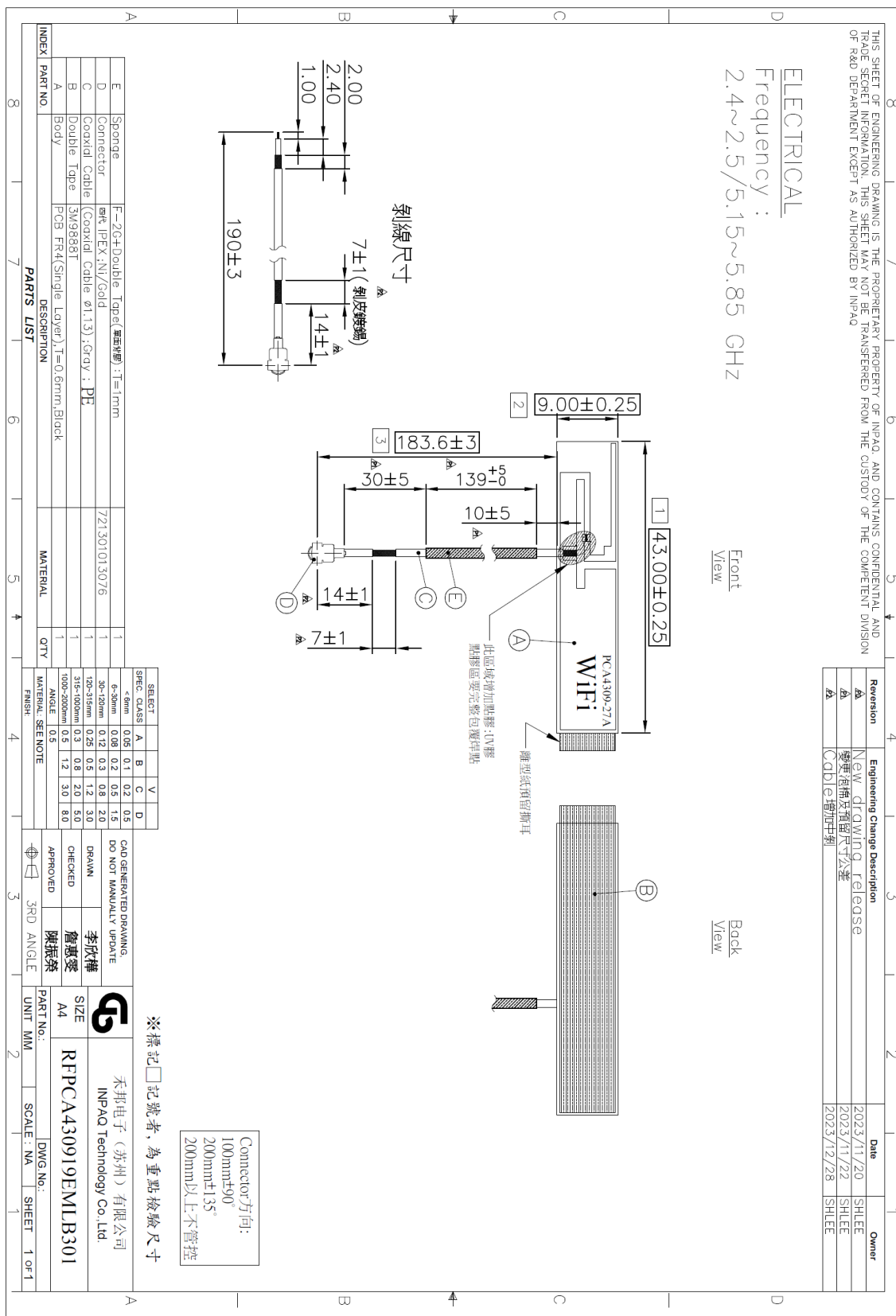
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3. Antenna Drawing :



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
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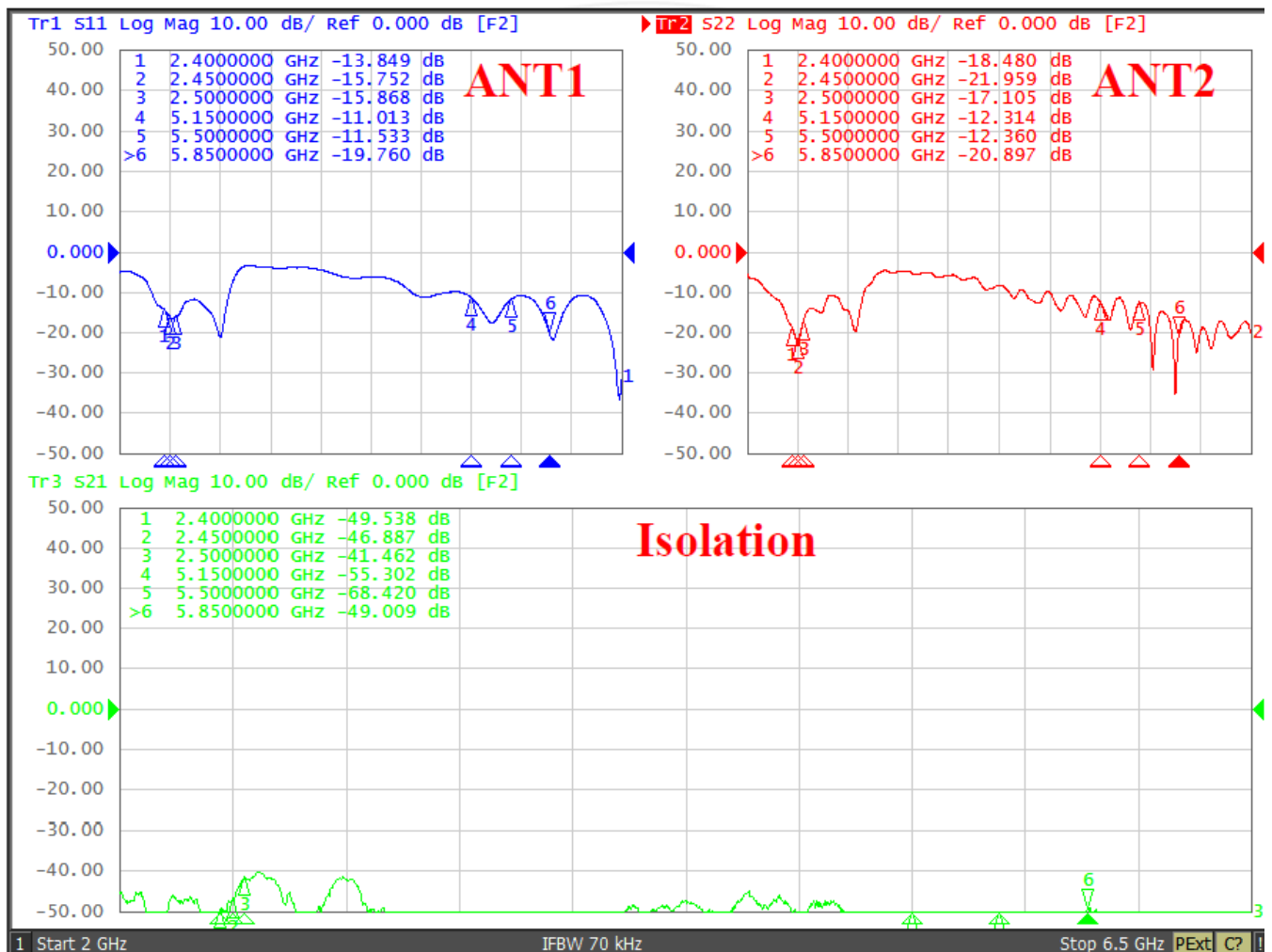
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4. Performance Report :

■ ELECTRICAL CHARACTERISTICS

Retune Loss & Isolation

ANT1



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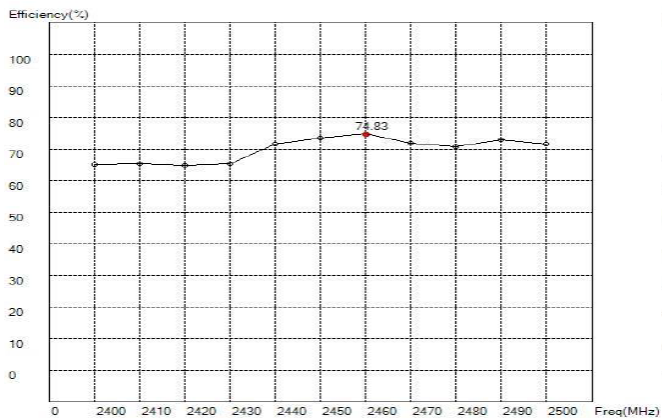
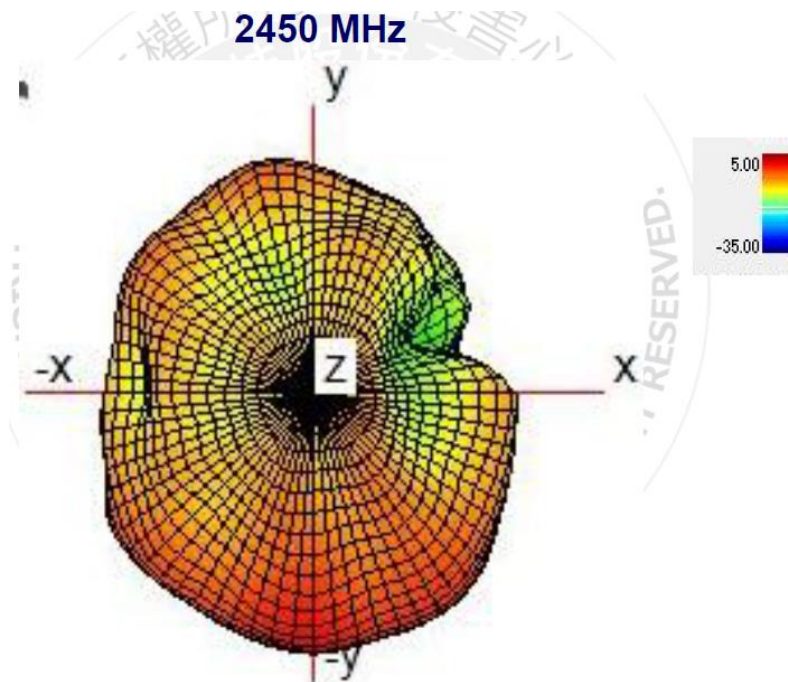
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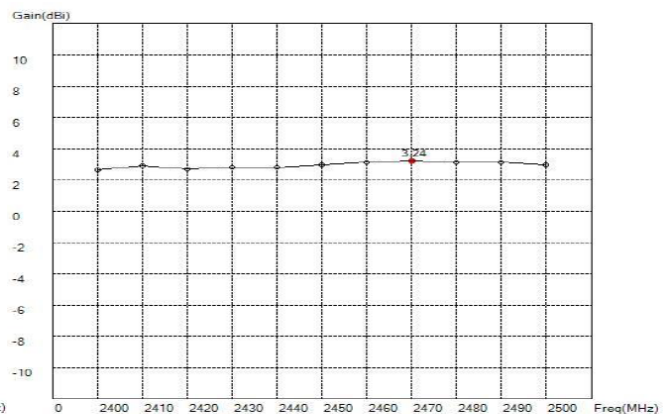
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Antenna Efficiency & Peak Gain



Maximum Efficiency at 2460 MHz : 74.83 %



Maximum Peak Gain at 2470 MHz : 3.24 dBi

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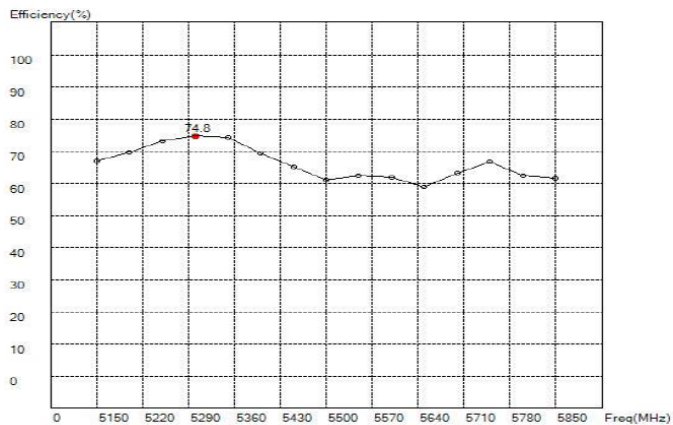
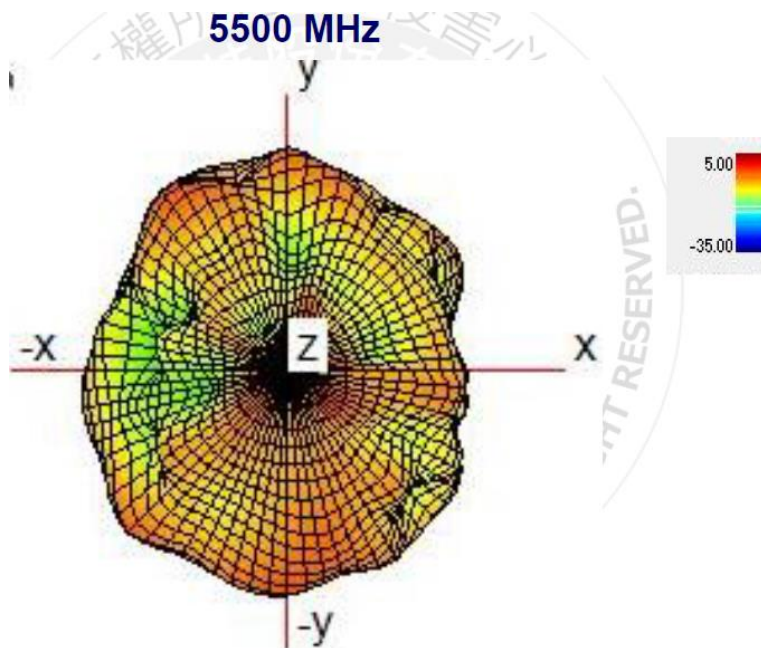


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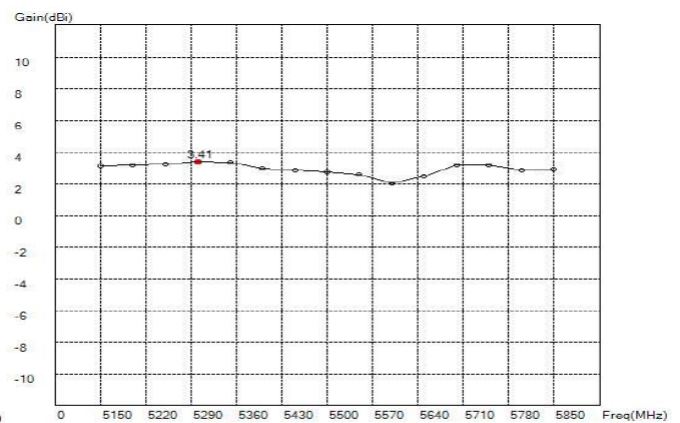
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Maximum Efficiency at 5300 MHz : 74.80 %



Maximum Peak Gain at 5300 MHz : 3.41 dBi

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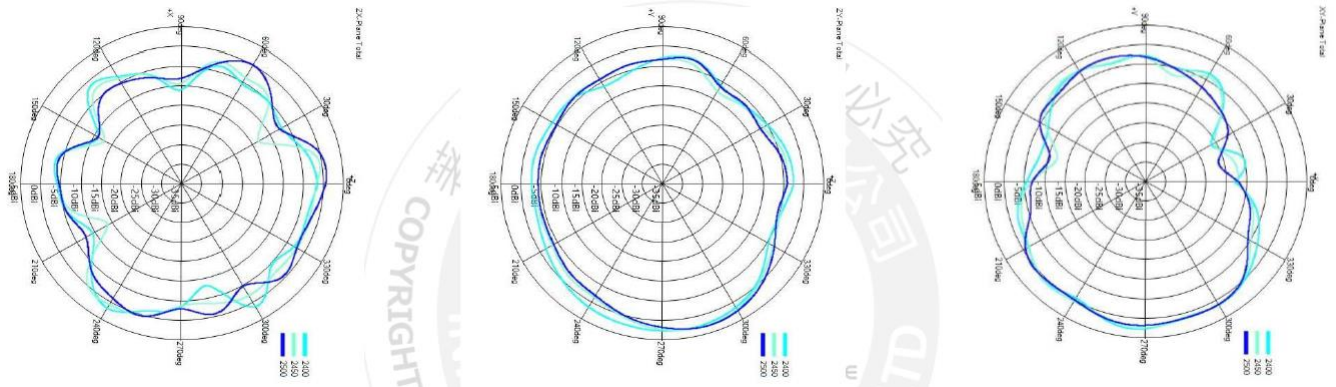
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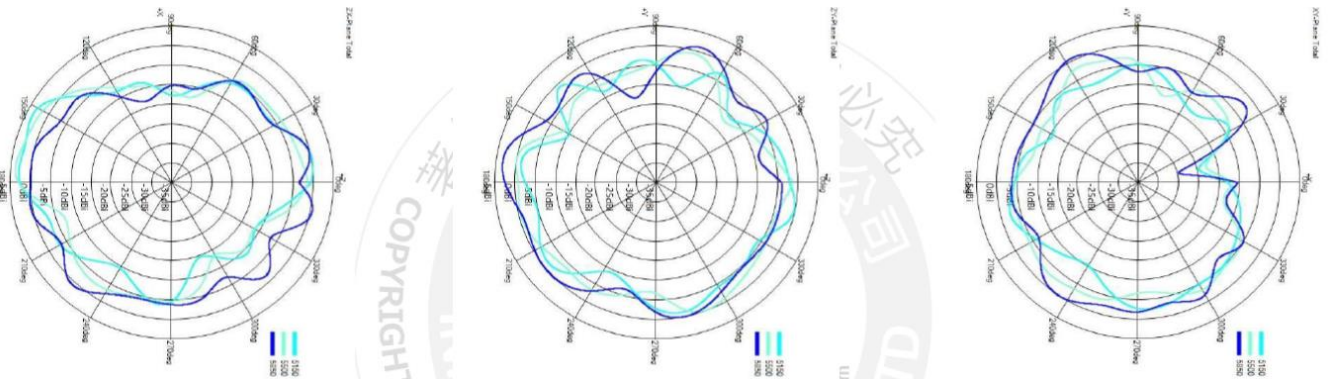
RADIATION PATTERN

2G



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.73	-3.16	2.62	-1.38	2.62	-2.08
2450	0.64	-3.27	2.95	-1.94	2.28	-2.33
2500	0.67	-3.13	2.99	-1.98	1.74	-2.50

5G



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	3.13	-4.13	-0.48	-3.93	-2.48	-6.49
5500	2.77	-4.32	-0.56	-3.53	-2.35	-5.52
5850	0.68	-3.43	2.35	-2.78	0.61	-3.76

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