

Awan Dipole Datasheet

AW158SM002

Manufacturer: AWAN

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The Reliable industry high performance standard for Antennas

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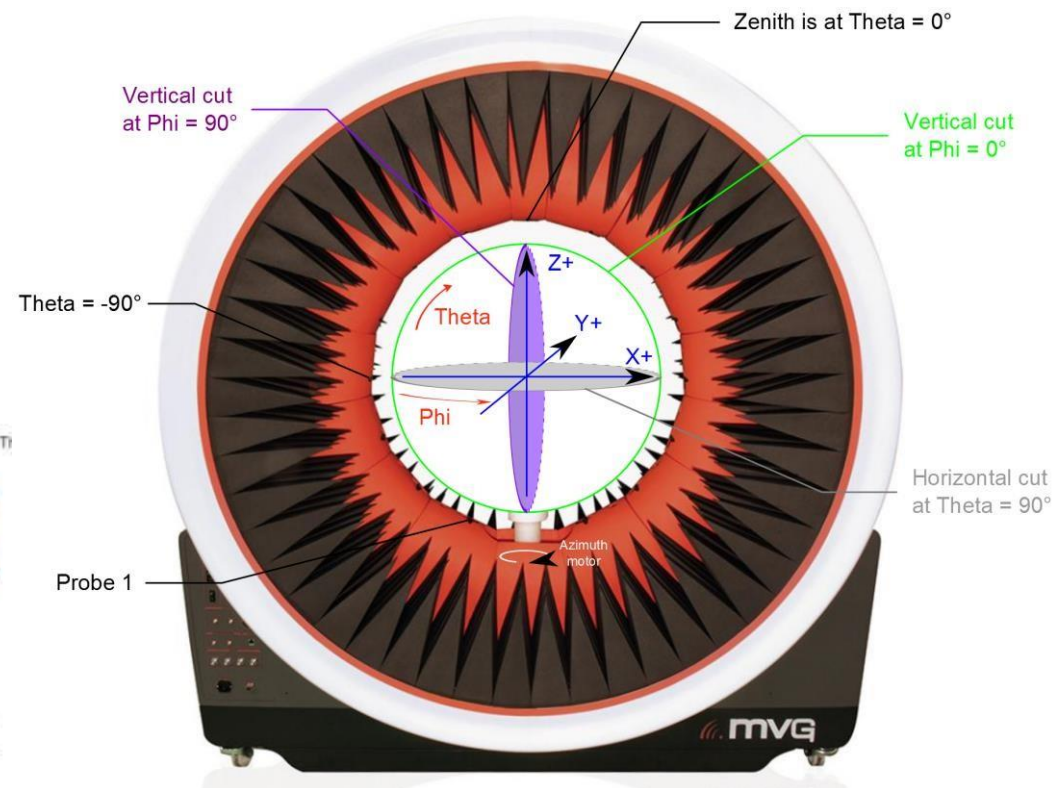
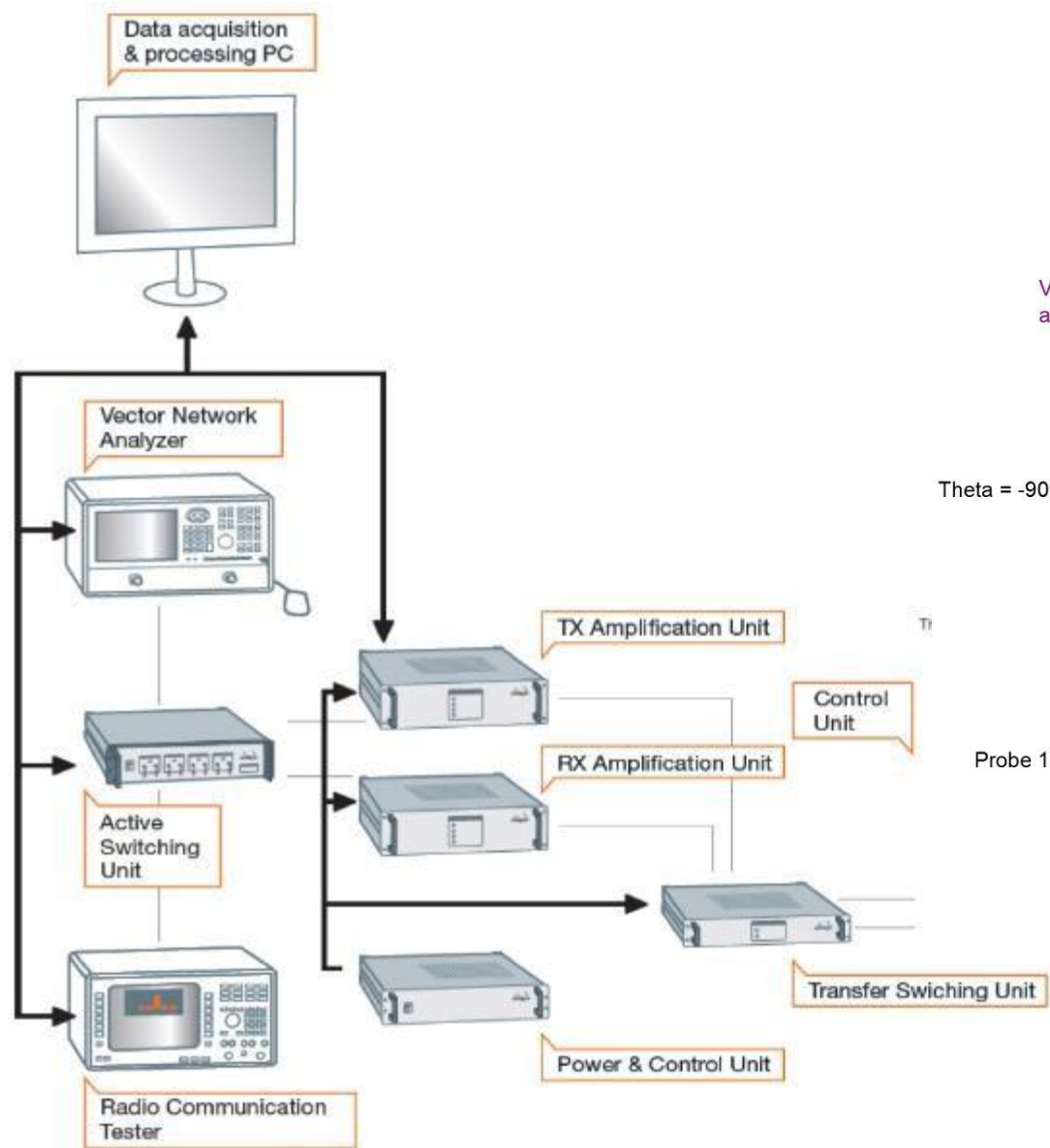
- **Antenna Testing Conditions**

1. Test System
2. Antenna Proposal and specification

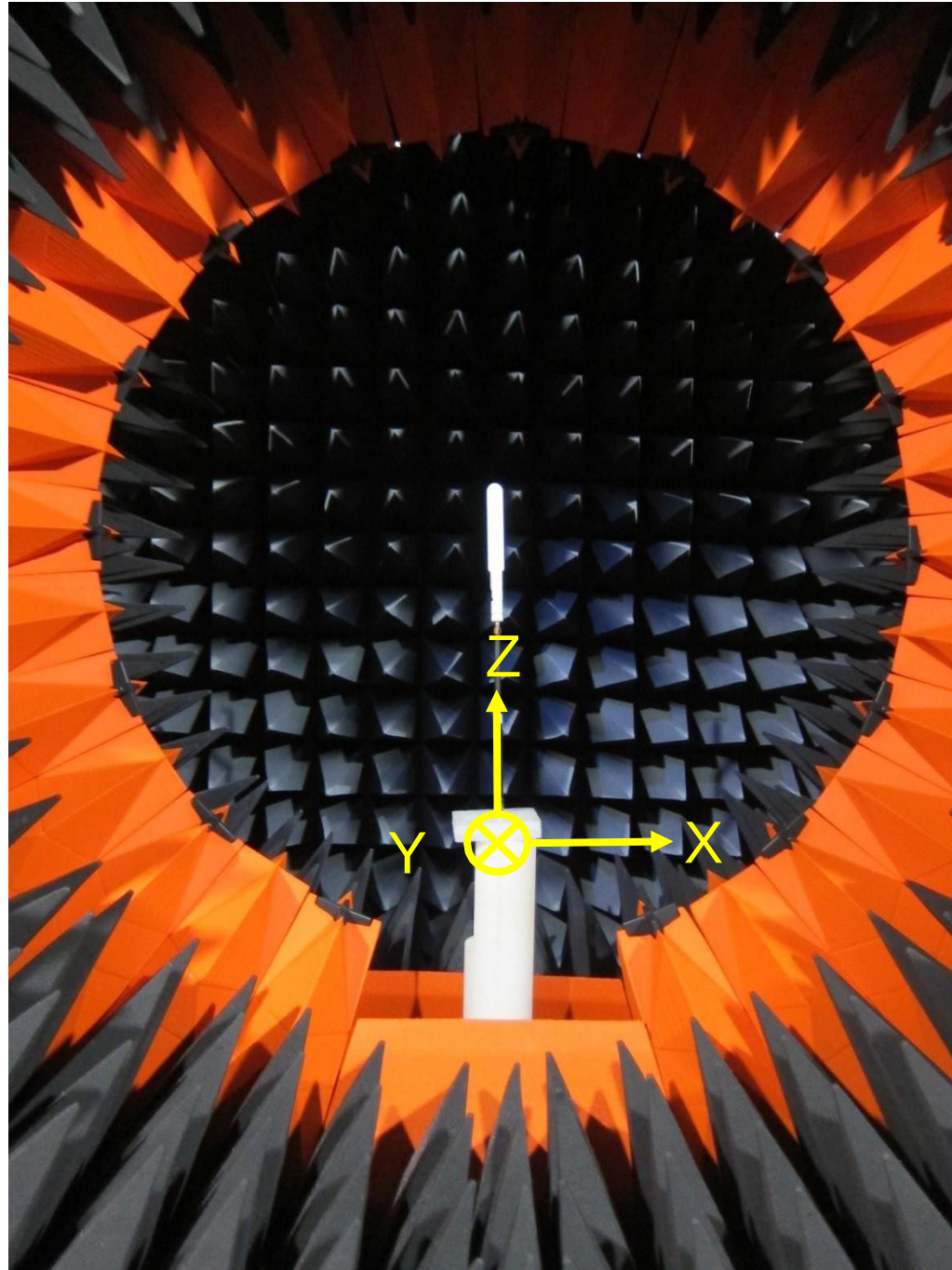
- **Antenna RF characteristics**

1. Radiation Pattern 2D & 3D
2. Gain Table

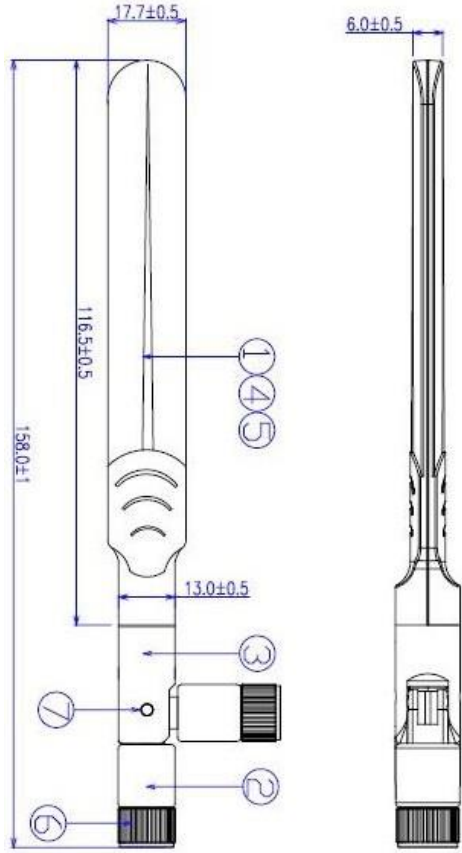
Aantenna Test System



Antenna Under Test

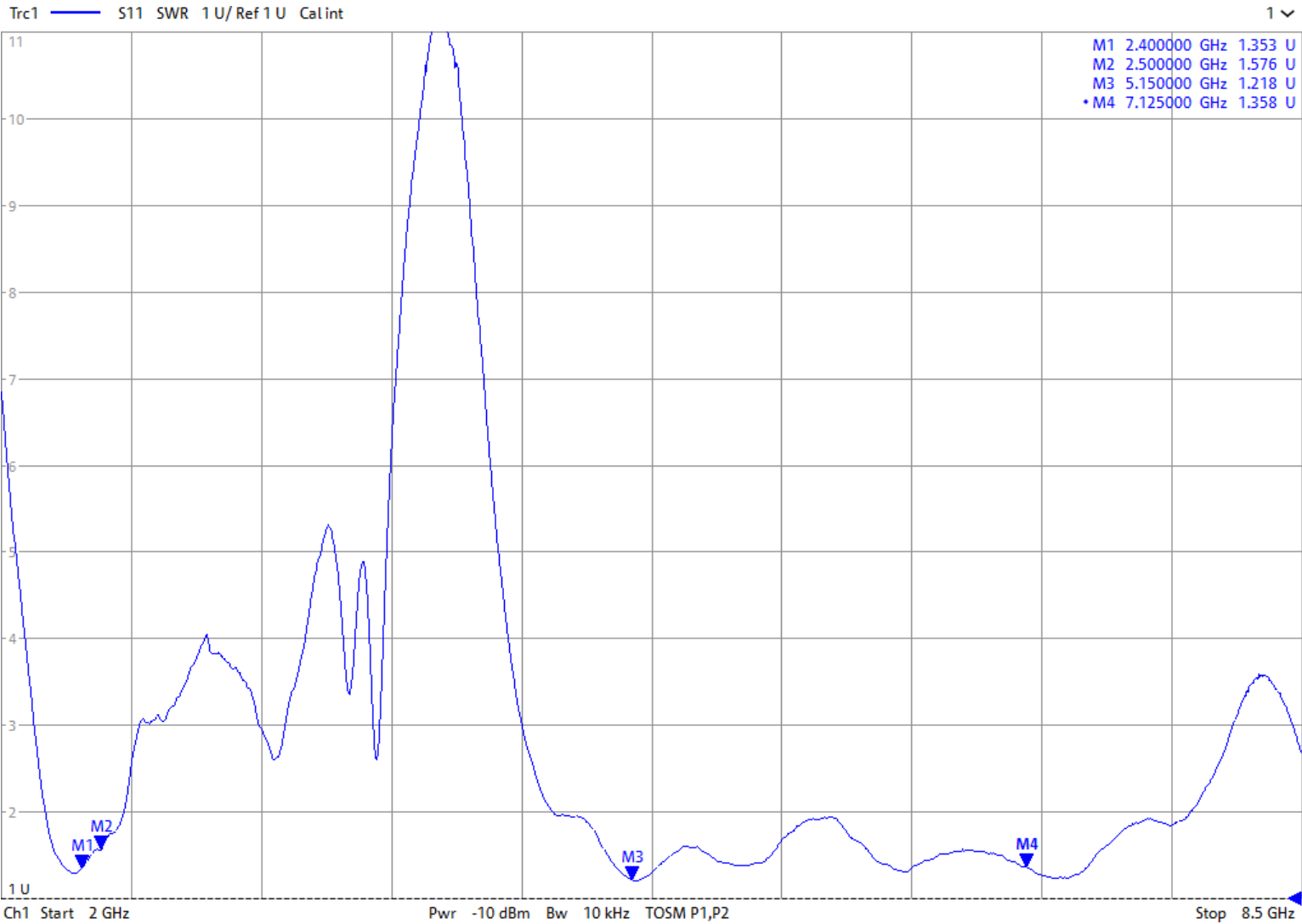


Antenna proposal and specification



RP-SMA PLUG
公頭母針

Paddle Antenna	Specification
Antenna Type	Dipole
VSWR	< 2
Frequency	2.4GHz~2.5GHz 5.15GHz ~ 5.85GHz 5.925~7.125GHz
Efficiency	2.4~2.5GHz @ 65~70% 5.15~5.85GHz @ 70~75% 5.925~7.125GHz @ 70~75%
For the gain of Bluetooth, please refer to the gain of Wi-Fi 2.4G	

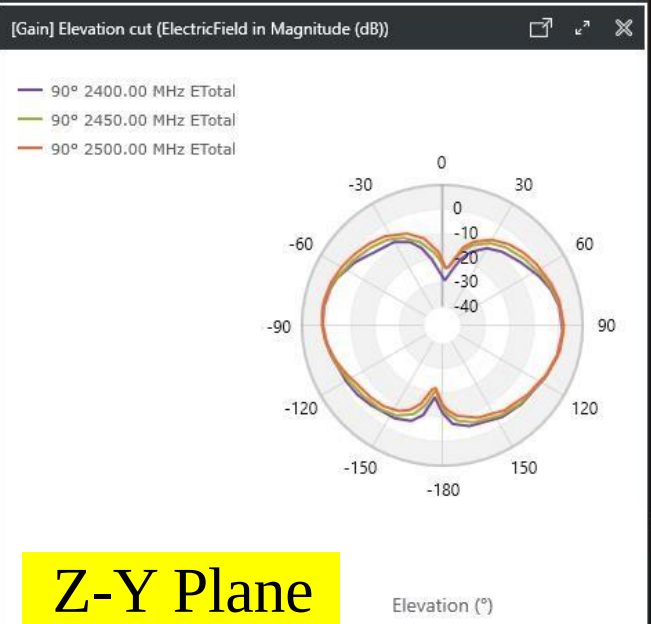
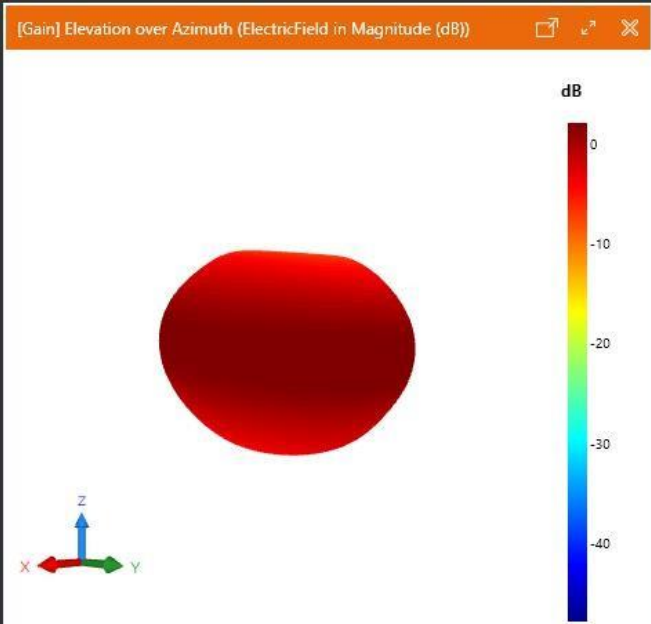


Gain Table

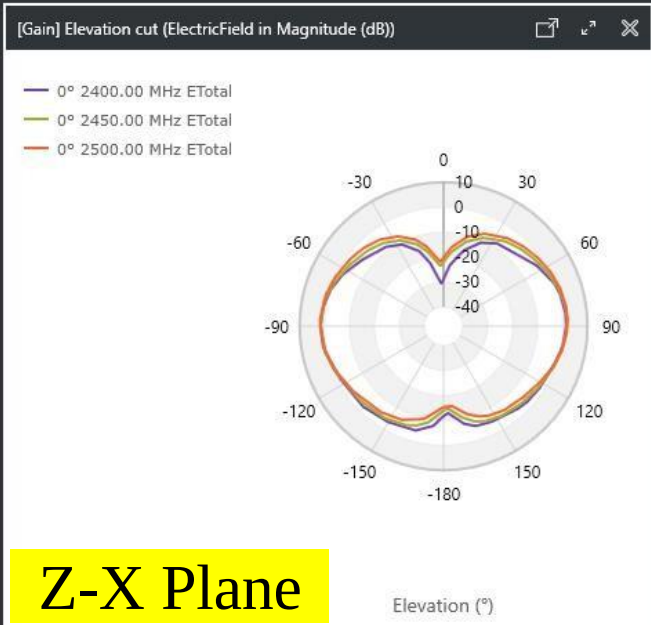
Frequency (MHz)	Peak Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.88	-1.67	68.08
2450	2.22	-1.73	67.14
2500	2.28	-1.75	66.83
5150	5.49	-1.44	71.78
5250	5.59	-1.3	74.13
5350	5.5	-1.43	71.94
5470	5.61	-1.47	71.29
5600	5.32	-1.33	73.62
5725	5.01	-1.36	73.11
5785	5.5	-1.39	72.61
5850	5.53	-1.5	70.79
5925	5.28	-1.36	73.11
6000	5.32	-1.33	73.62
6125	5.42	-1.29	74.30
6225	5.56	-1.39	72.61
6325	5.39	-1.37	72.95
6425	5.24	-1.53	70.31
6525	5.15	-1.43	71.94
6725	5.32	-1.38	72.78
6925	4.83	-1.33	73.62
7125	5.21	-1.5	70.79



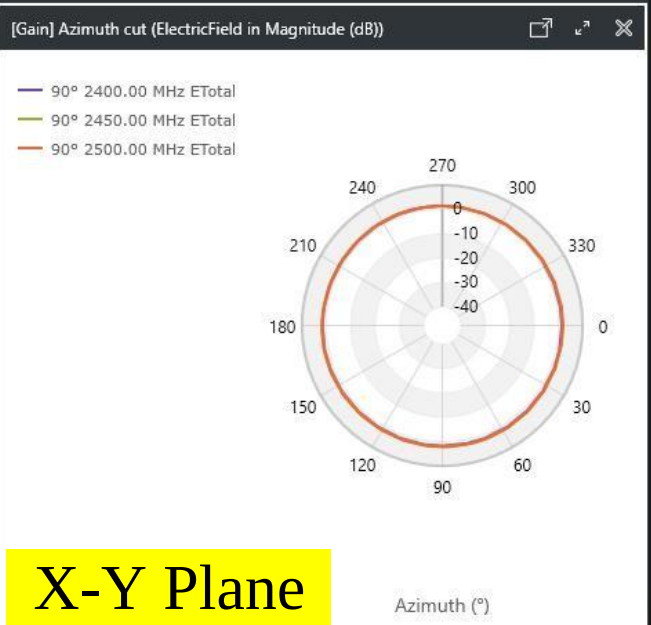
Radiation Pattern 2D & 3D (2400~2500MHz)



Z-Y Plane

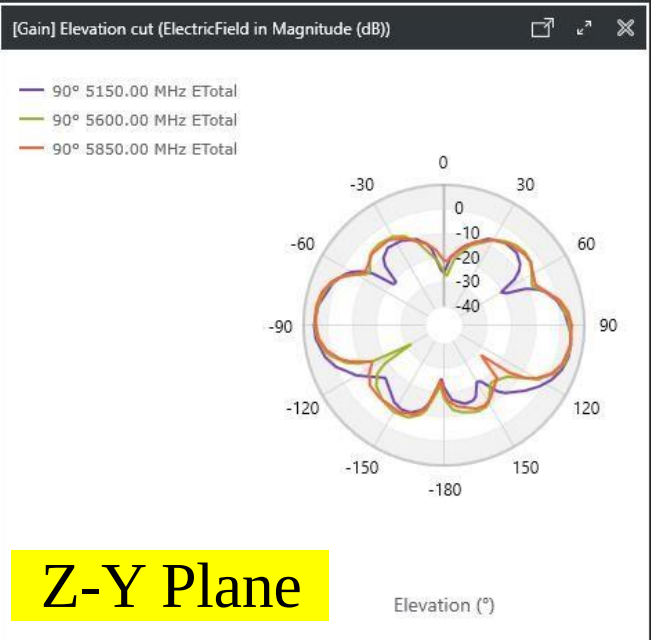
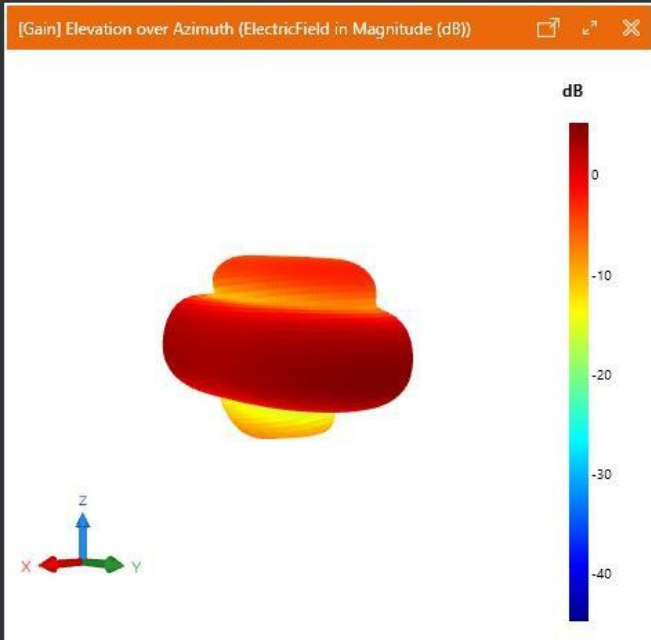


Z-X Plane

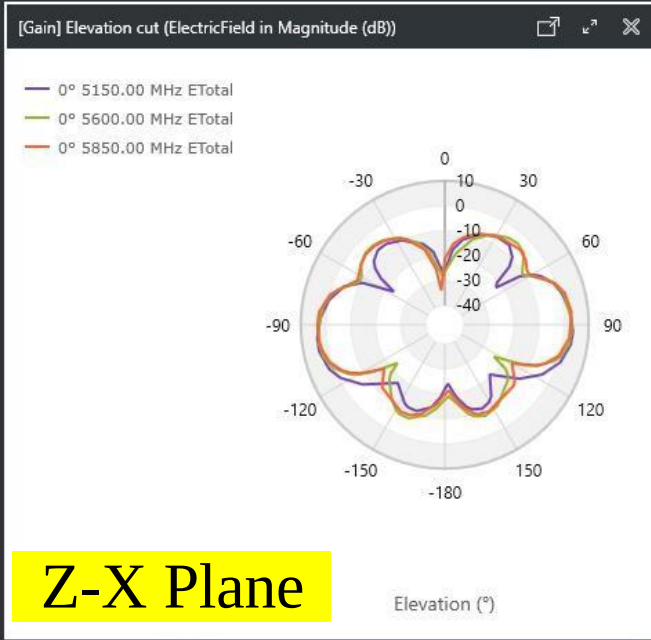


X-Y Plane

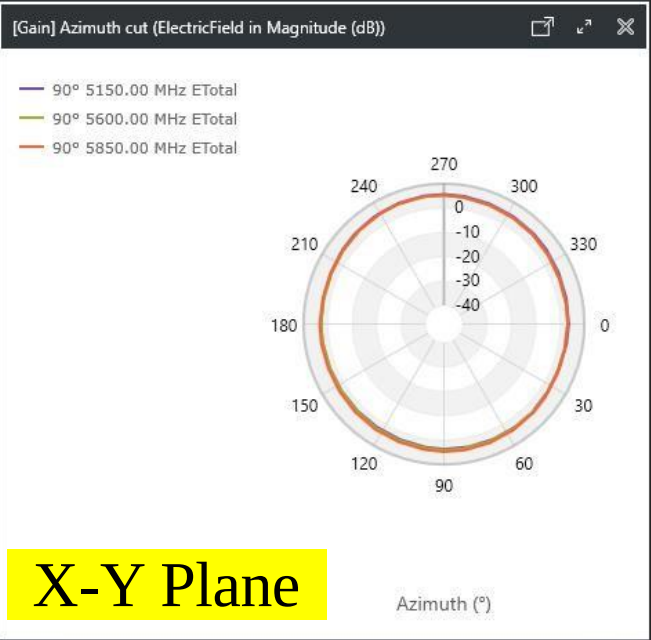
Radiation Pattern 2D & 3D (5150~5850MHz)



Z-Y Plane

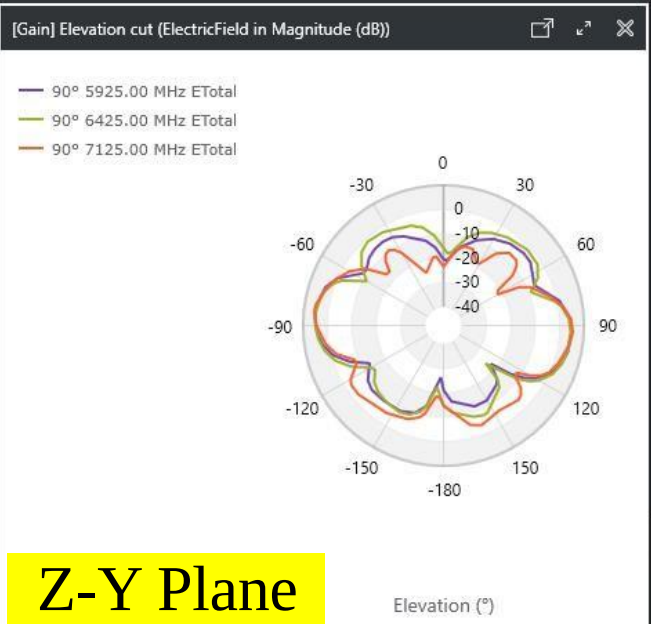
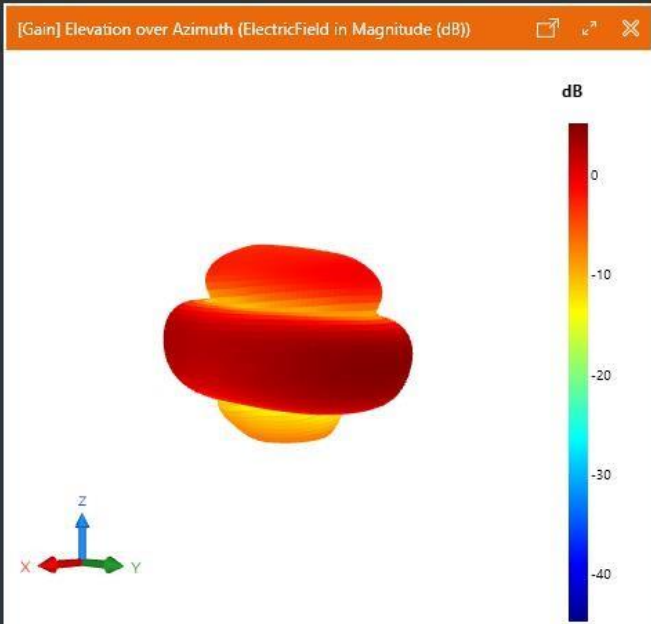


Z-X Plane

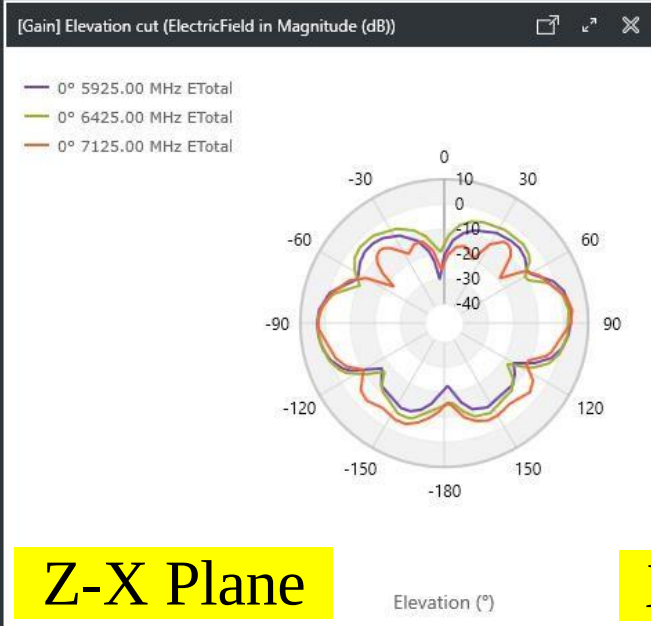


X-Y Plane

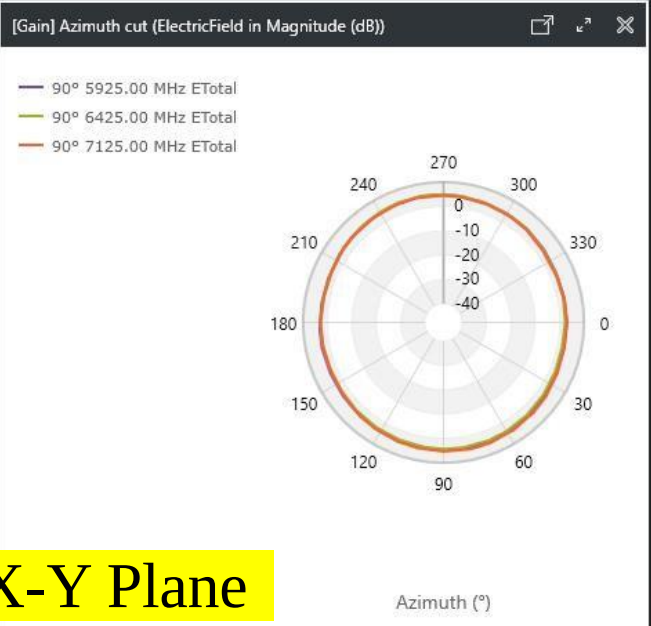
Radiation Pattern 2D & 3D (5925~7125MHz)



Z-Y Plane



Z-X Plane



X-Y Plane



 **awan**
THANK YOU