



Antenna proposal

Innolux

X-ray antenna evaluation report

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Outline

- **Antenna Environmental**
- **Antenna fixed method**

Wifi1 : Slot antenna lock screw in the housing

Wifi2 : Slot antenna lock screw in the housing

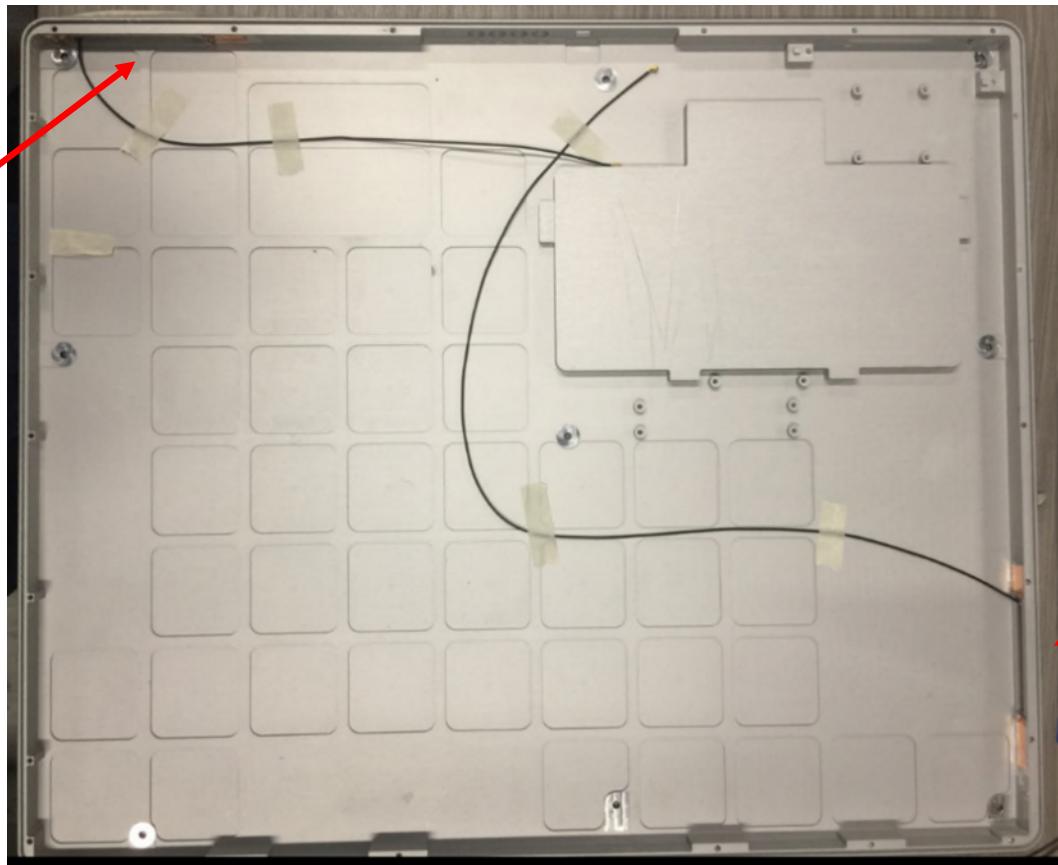
- **S11**
- **Efficiency**
 - a) Efficiency
 - b) Average Gain
 - c) Peak Gain
 - d) Performance table

- **Chamber Environmental**
- **Antenna 2D radiation patterns**



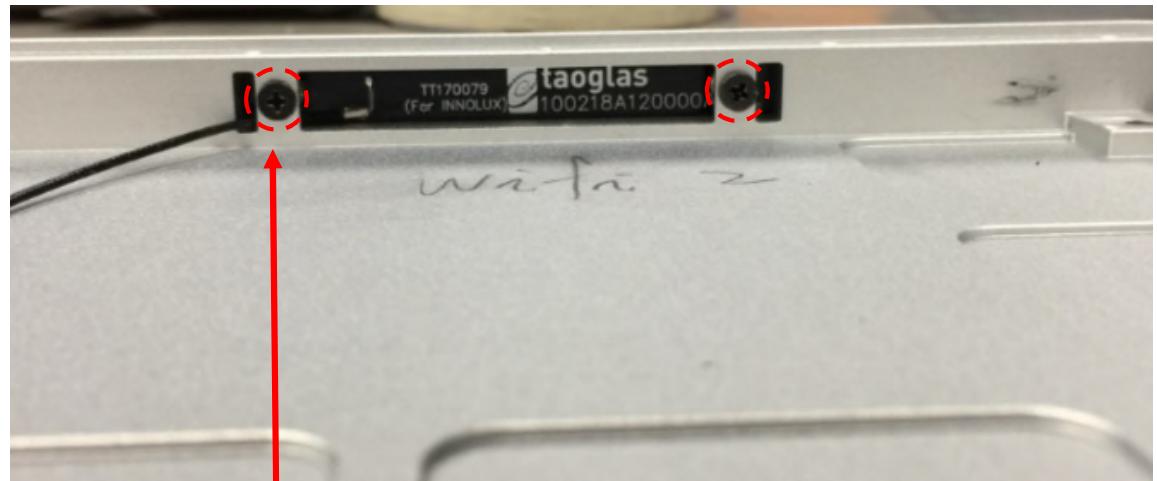
Antenna Environmental

Wifi1 & Wifi2 position

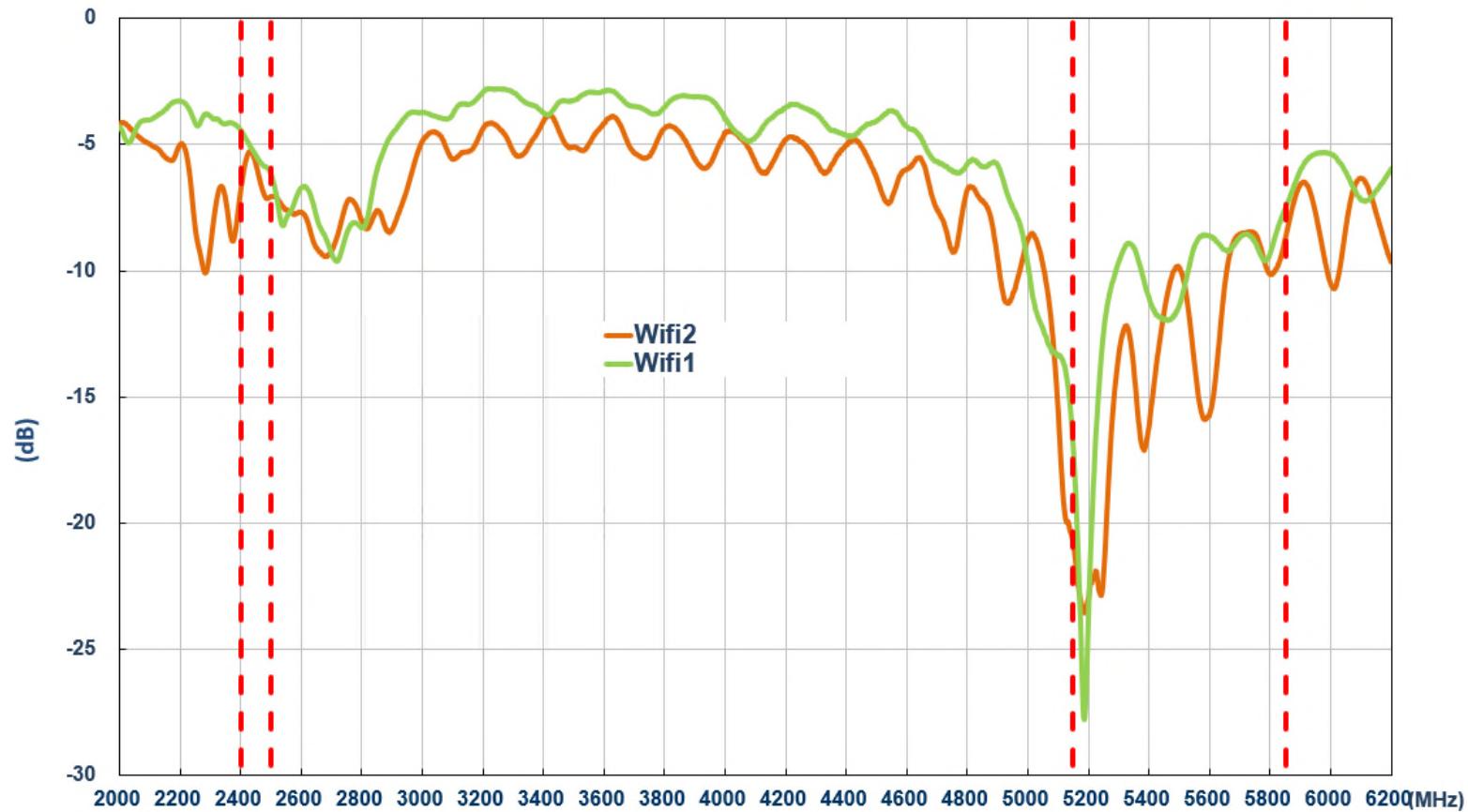


Antenna fixed method

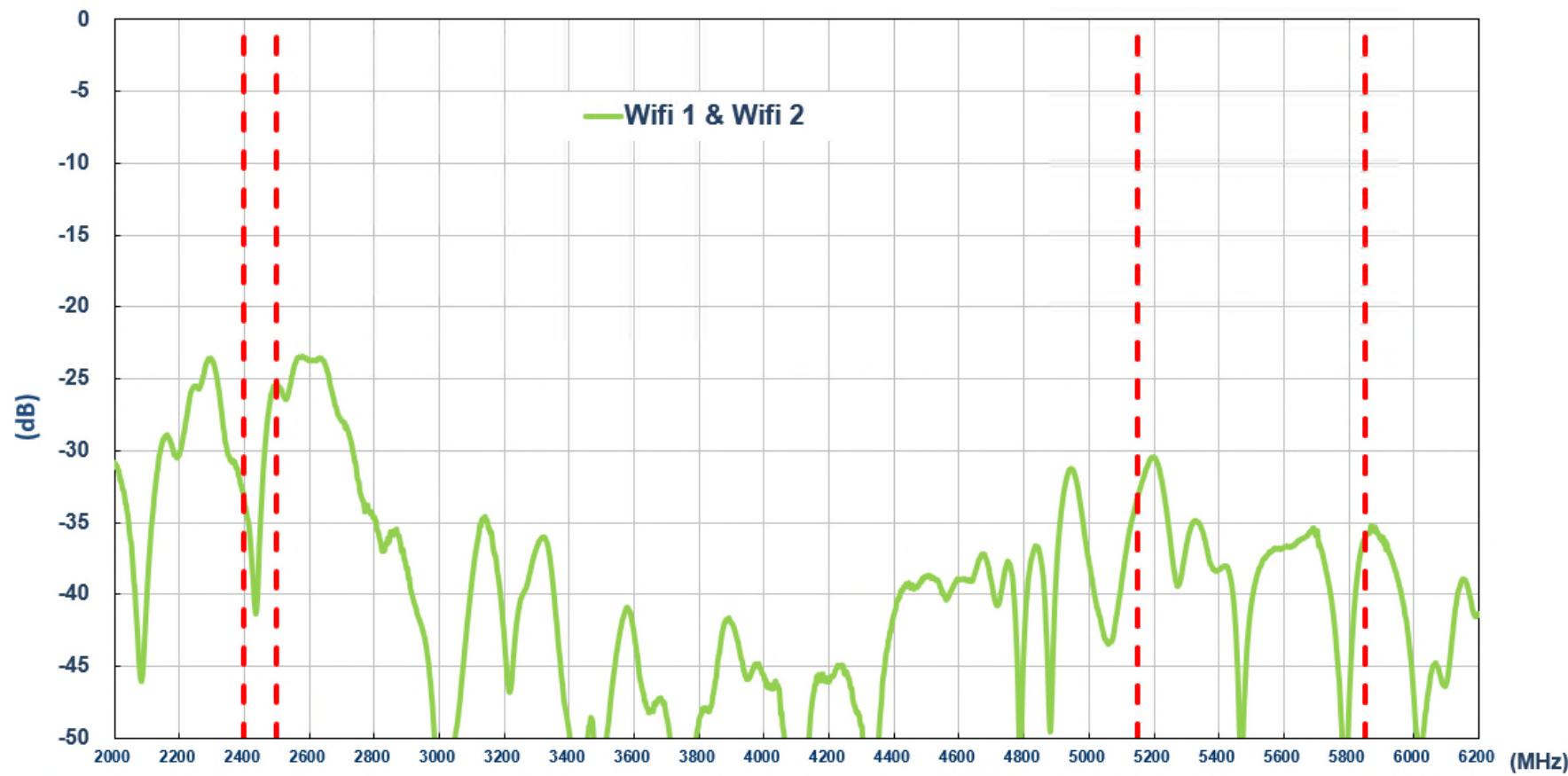
Wifi1 & Wifi2 antenna solder nut and screw in housing.



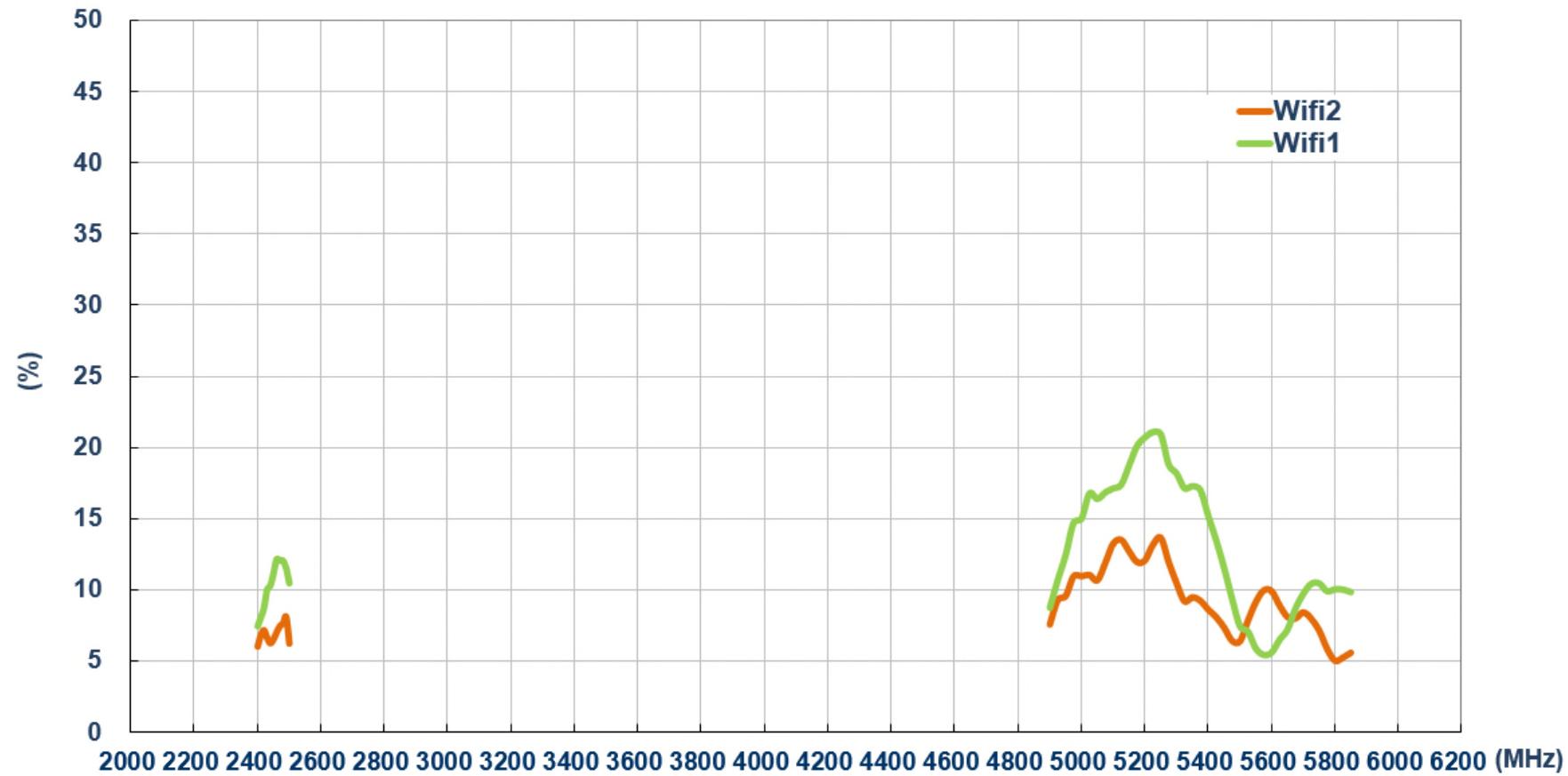
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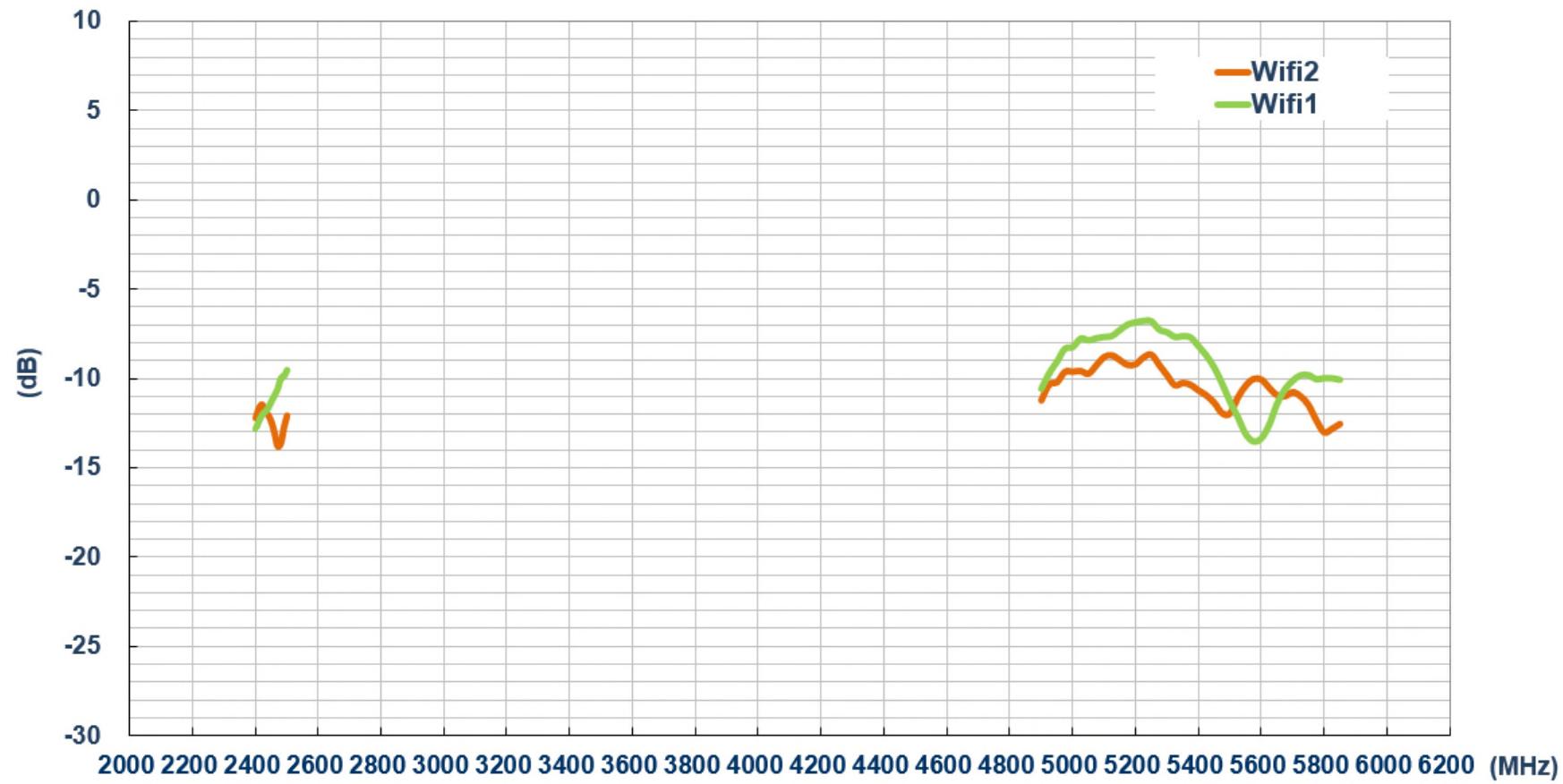
S21



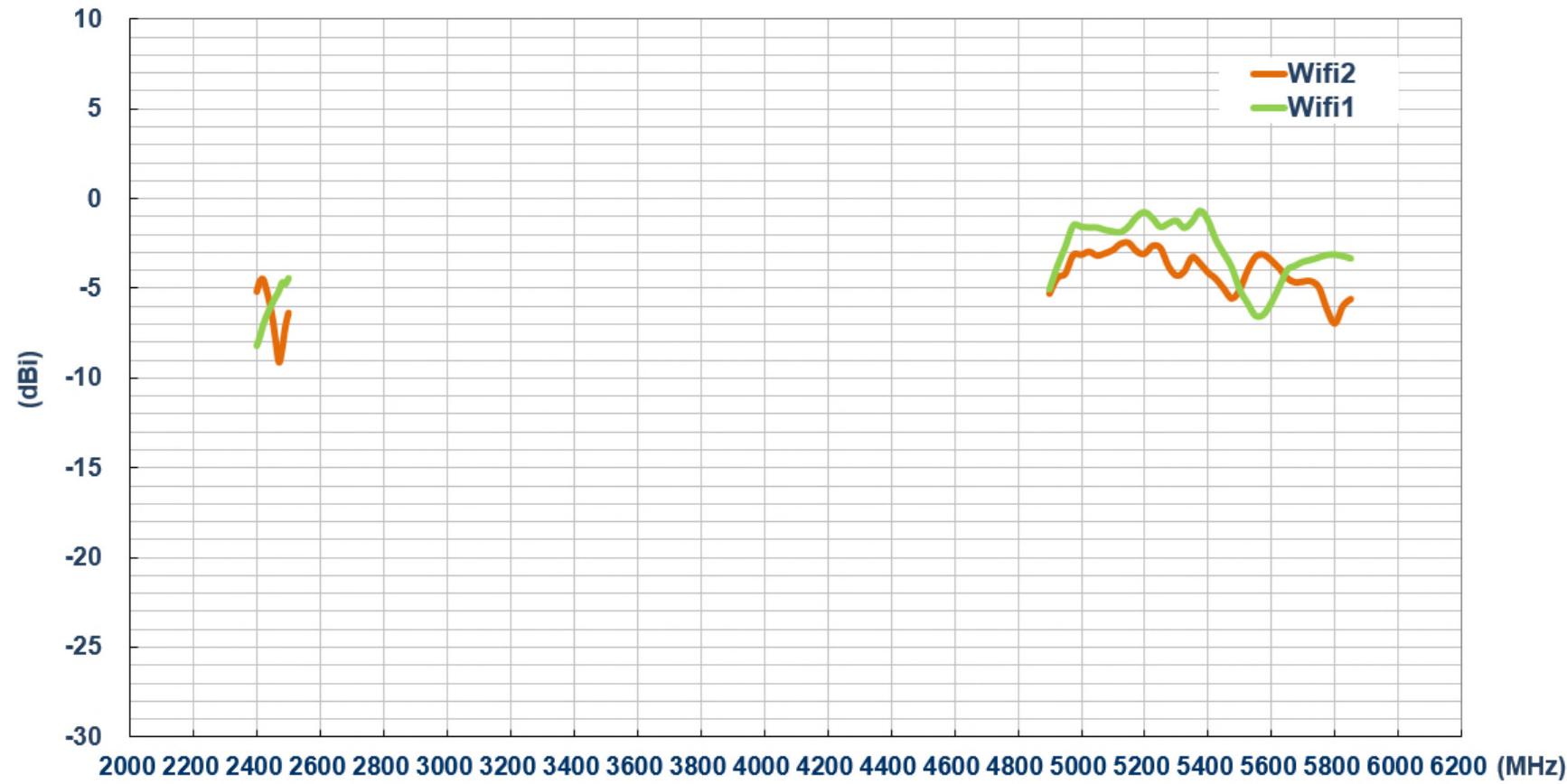
Efficiency



Average Gain



Peak Gain



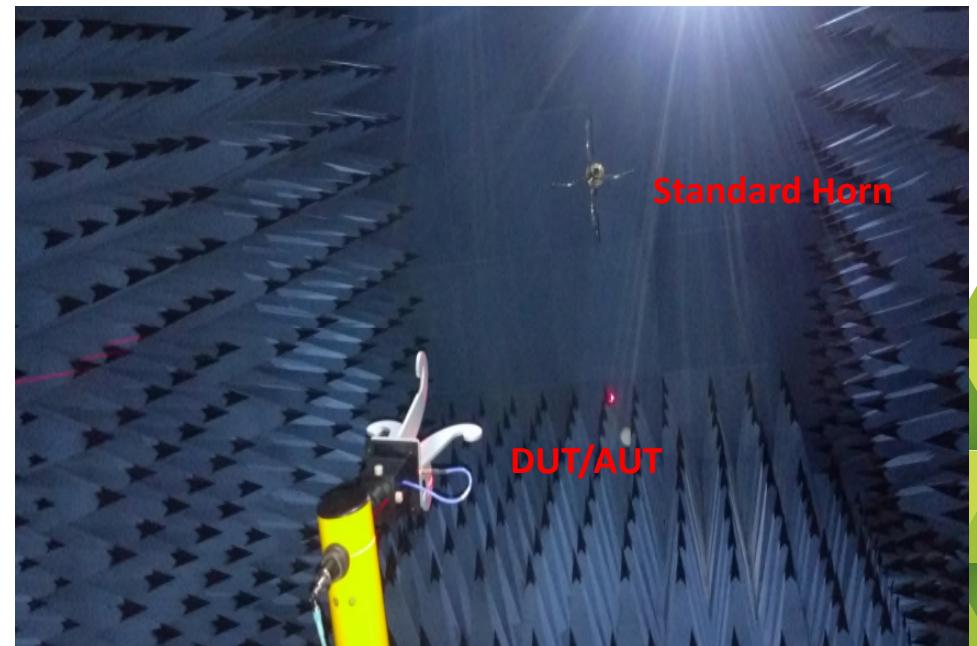
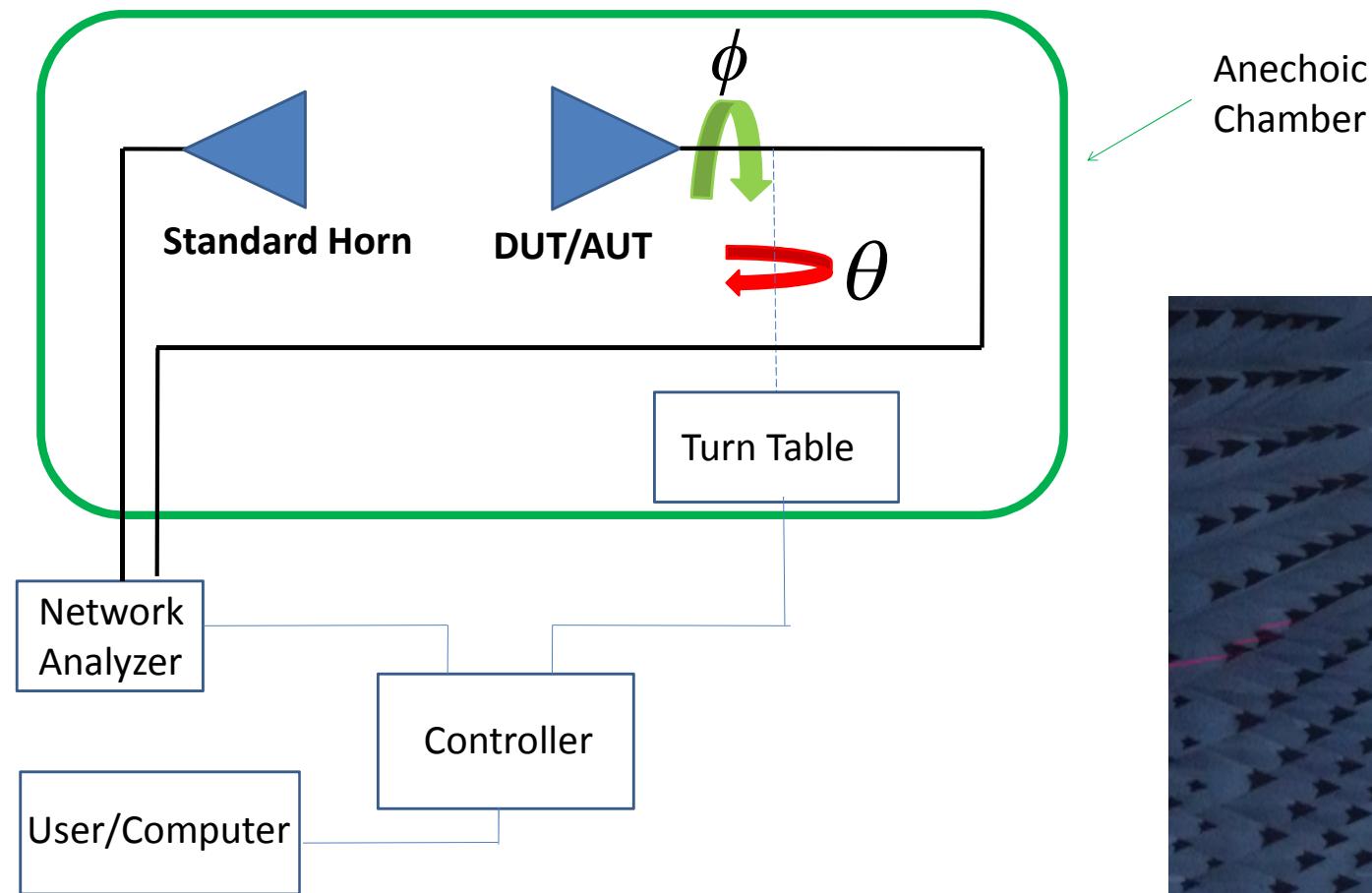
Performance table

Average	WiFi 2.4G	WiFi 5G
Frequency (MHz)	2400~2500	4900~5850
Efficiency (%)		
Wifi 1	10.4	13.1
Wifi 2	6.9	9.4
Peak Gain (dBi)		
Wifi 1	-4.5	-0.7
Wifi 2	-4.5	-2.5
Average Gain (dB)		
Wifi 1	-9.8	-8.9
Wifi 2	-11.6	-10.3



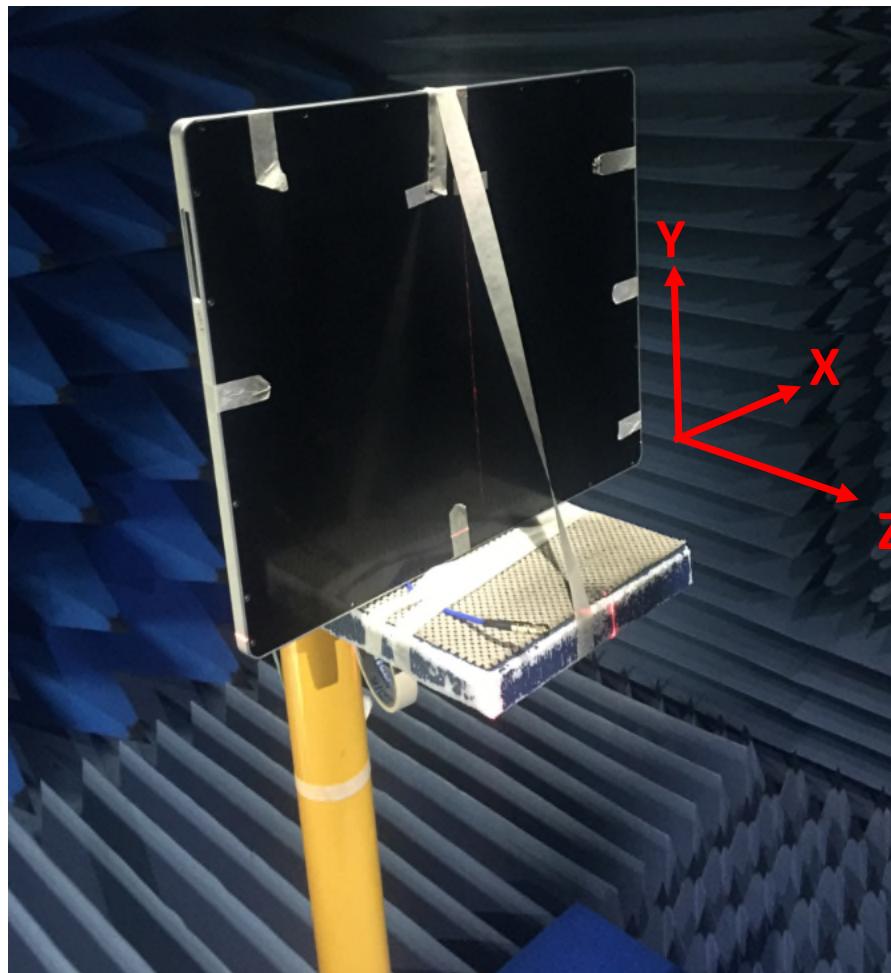
Chamber Environmental

Measurement System



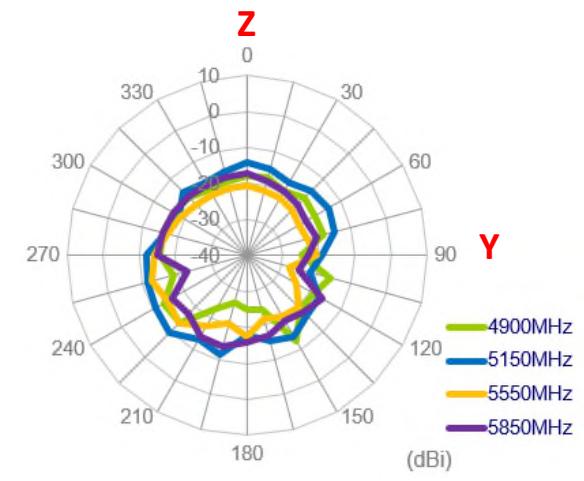
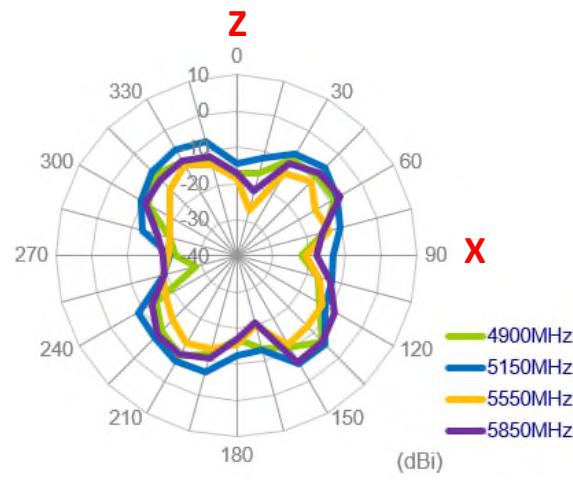
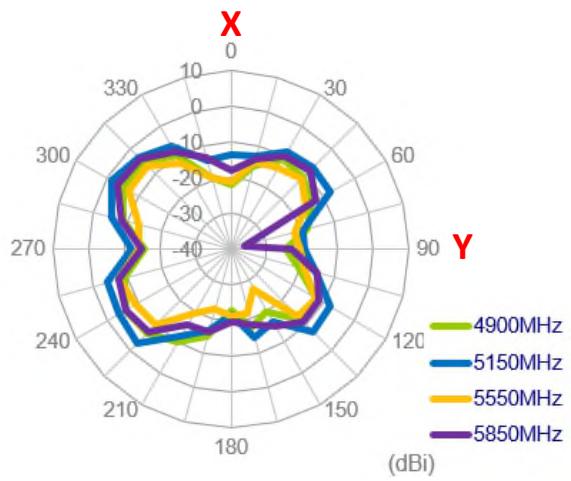
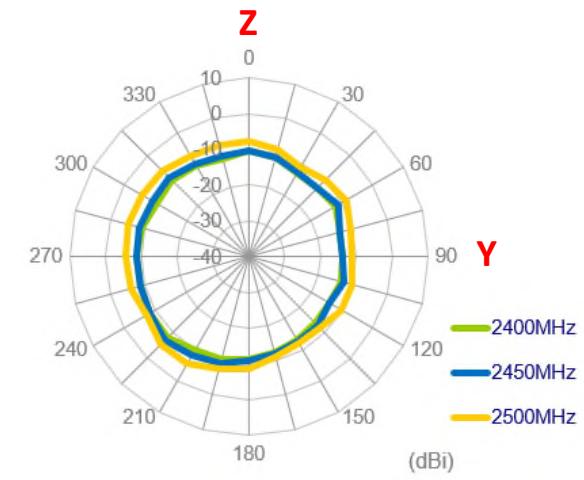
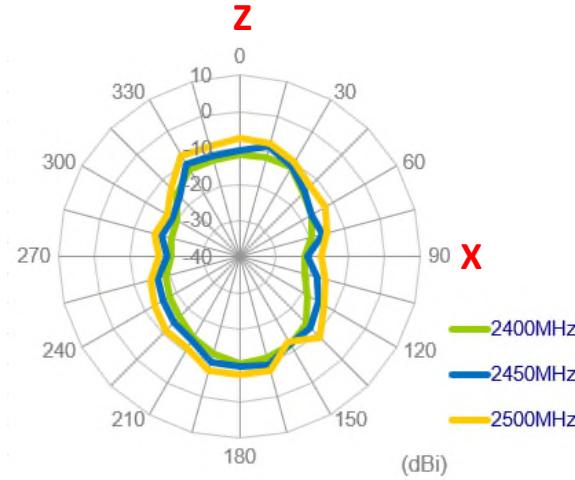
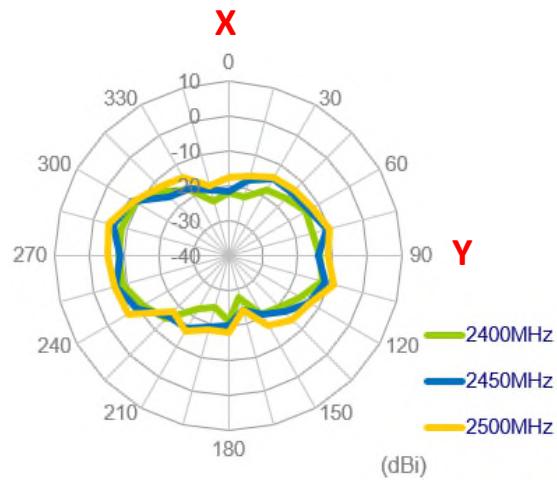
Chamber Environmental

Measurement

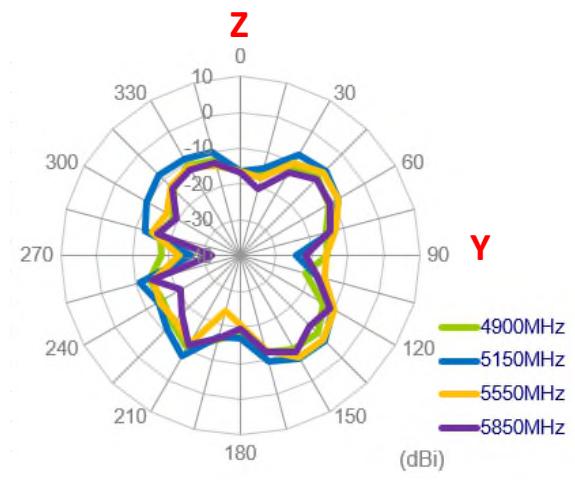
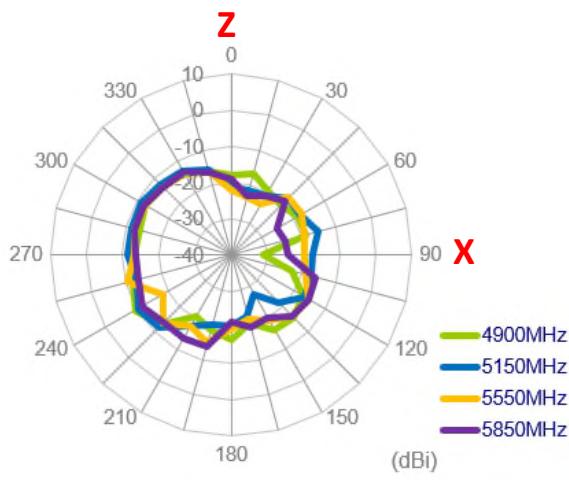
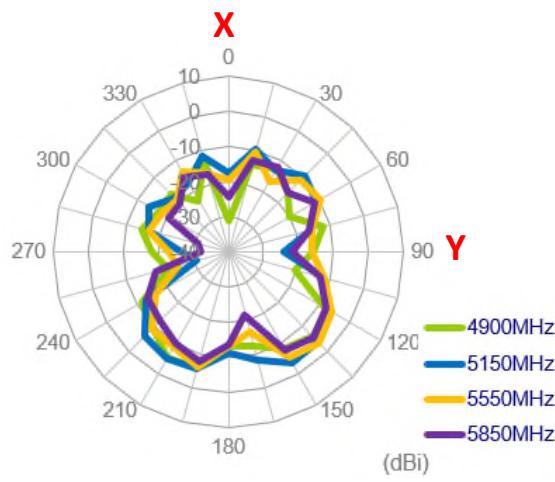
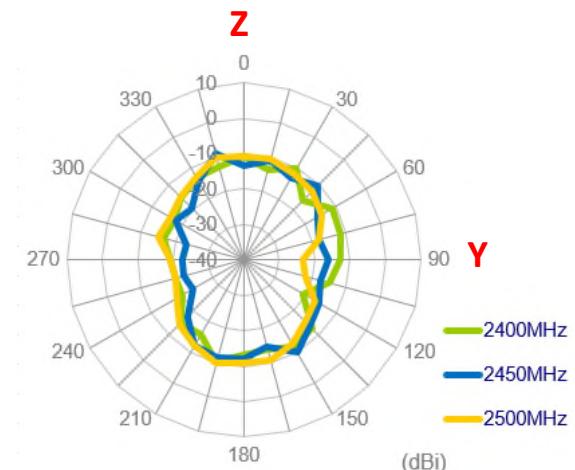
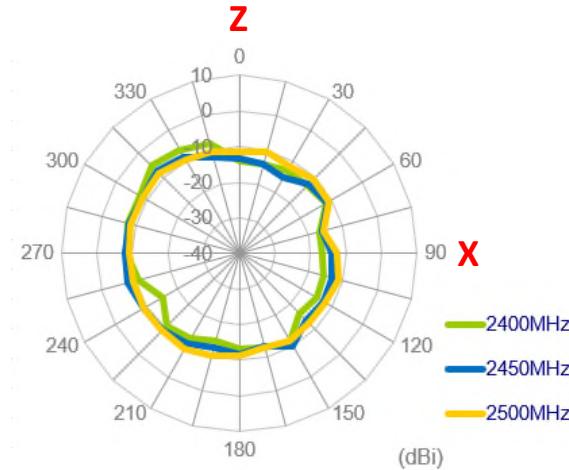
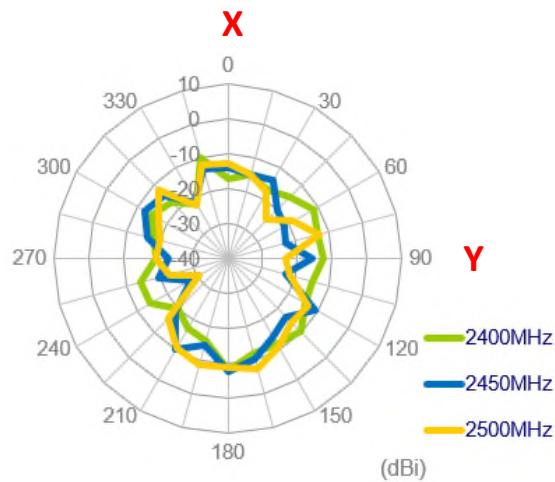


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Antenna 2D Radiation Patterns : Wifi 1



Antenna 2D Radiation Patterns : Wifi 2



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