

# WPXE8326 Antenna report

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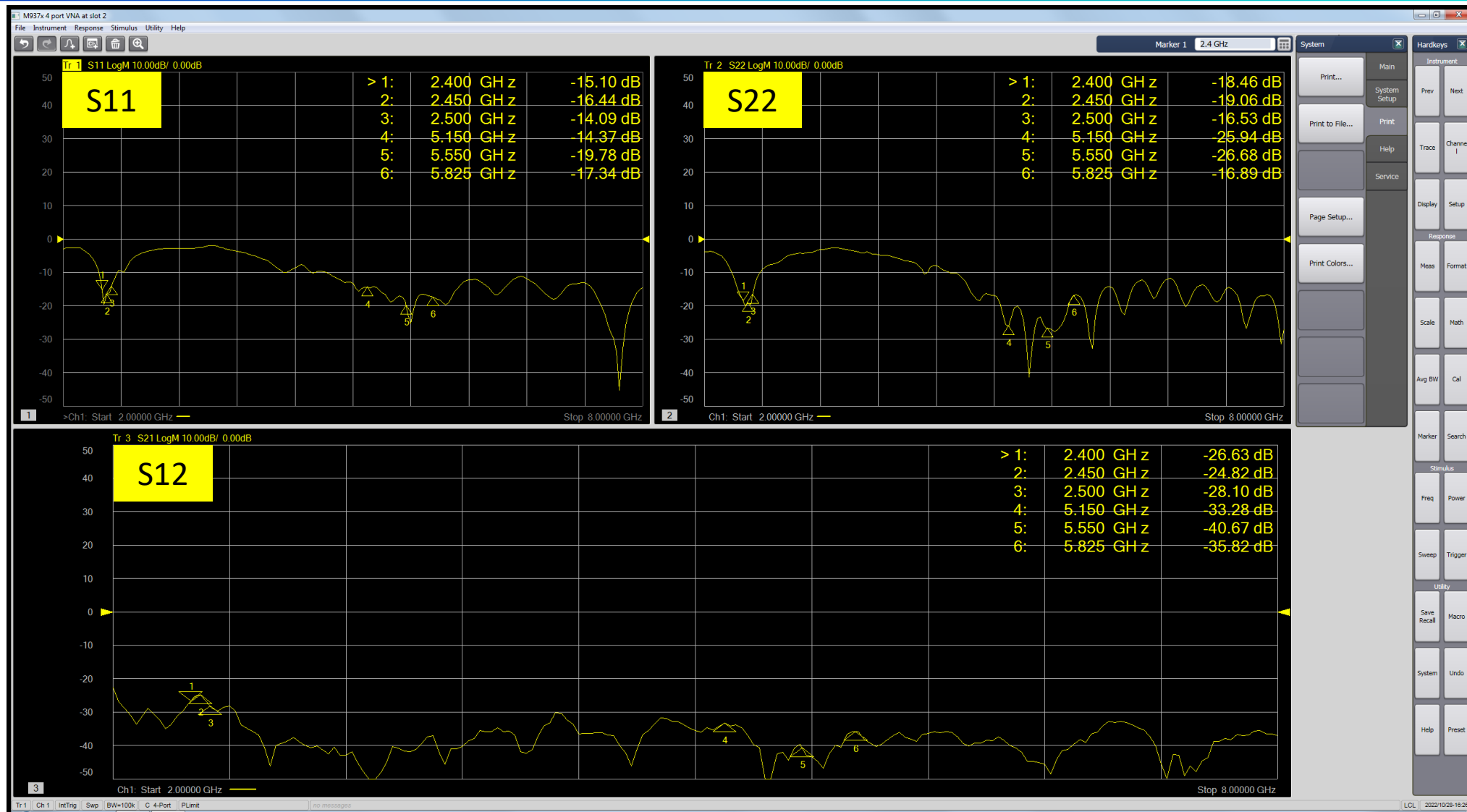
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# Antenna Placement

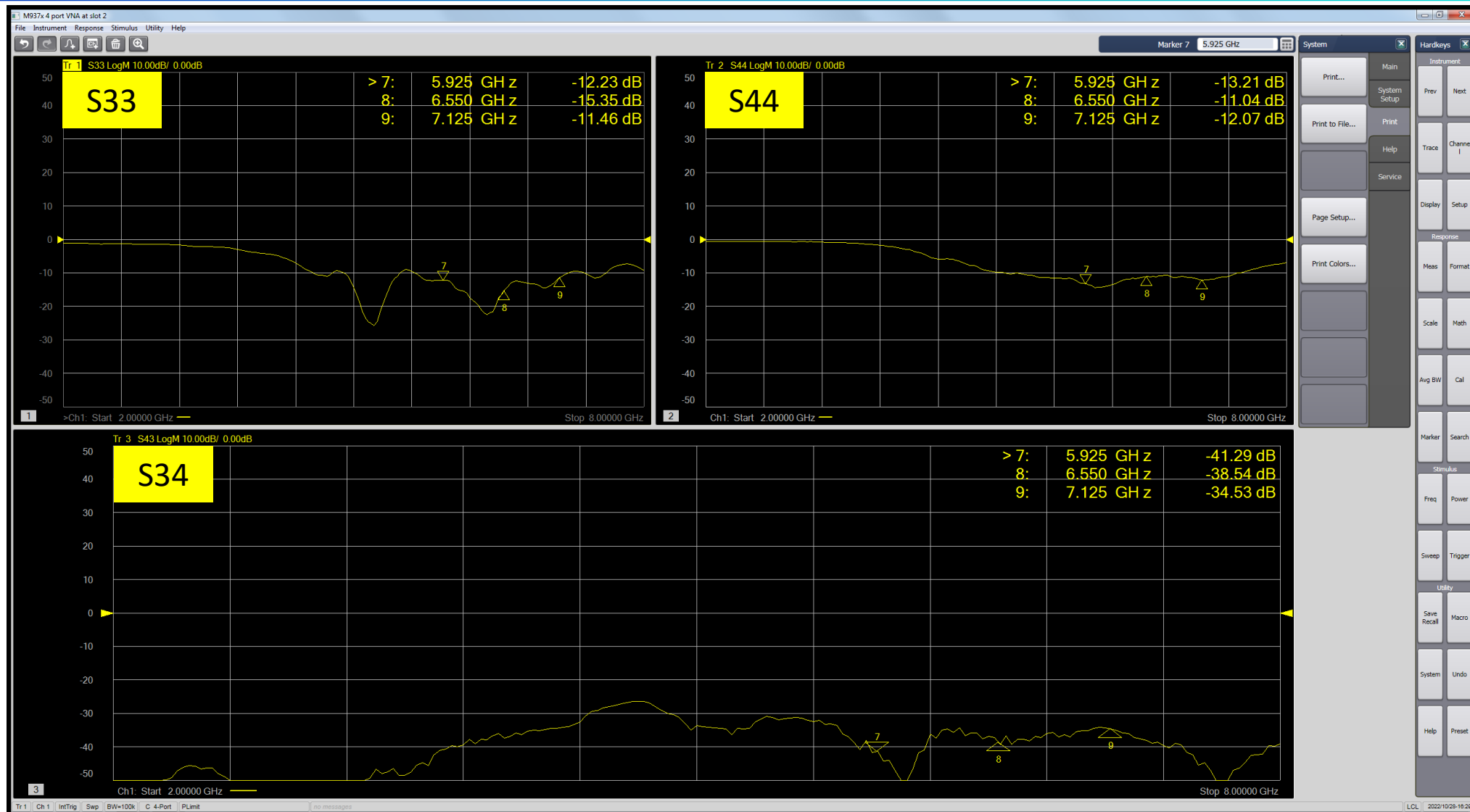
Antenna	Description	Frequency
Ant.1	Dual band	2400 ~ 2500 MHz · 5150 ~ 5825 MHz
Ant.2	Dual band	2400 ~ 2500 MHz · 5150 ~ 5825 MHz
Ant.3	6G	5925 ~ 7125 MHz
Ant.4	6G	5925 ~ 7125 MHz
Ant.5	BT	2400 ~ 2500 MHz



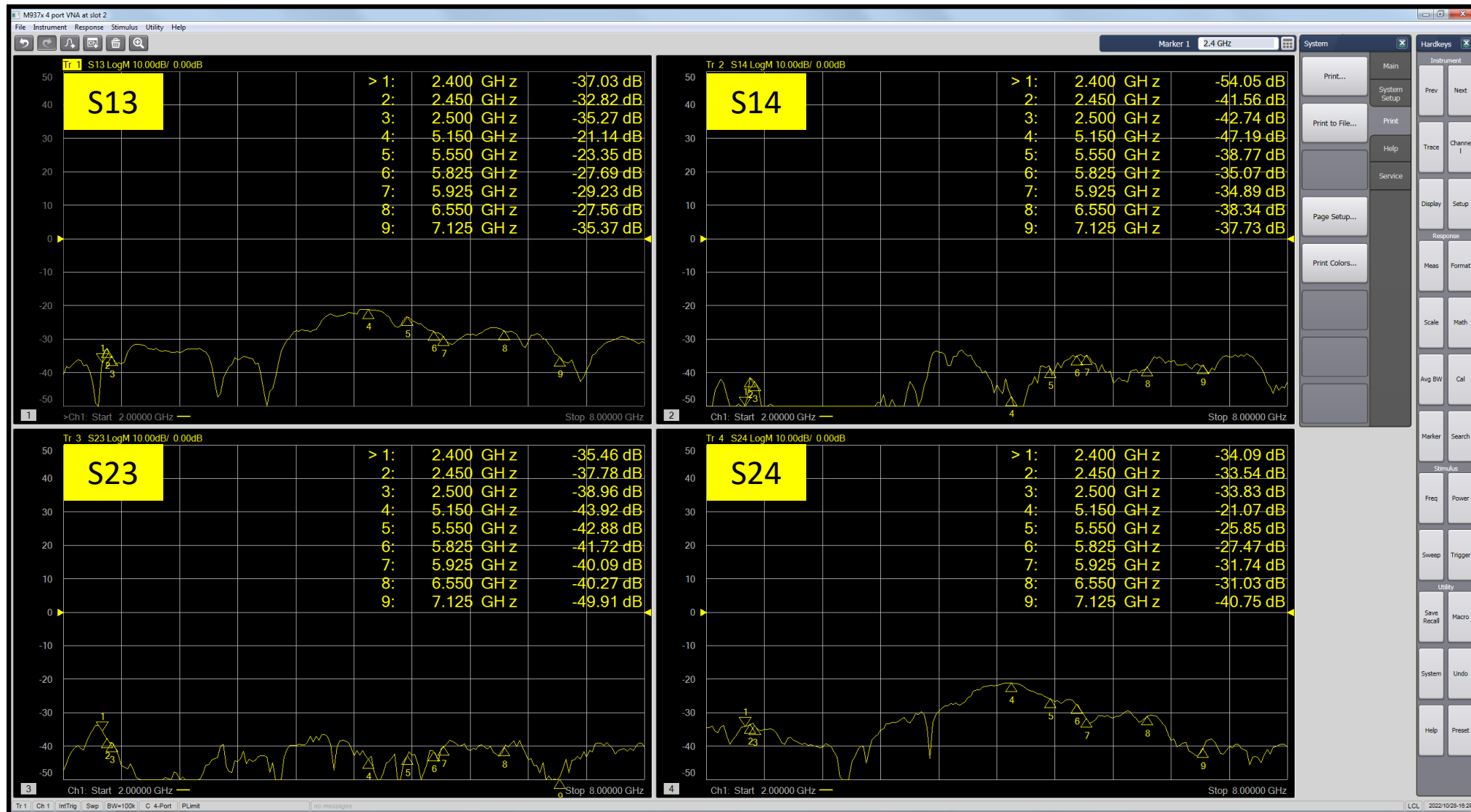
# S-parameter



# 6E S-parameter



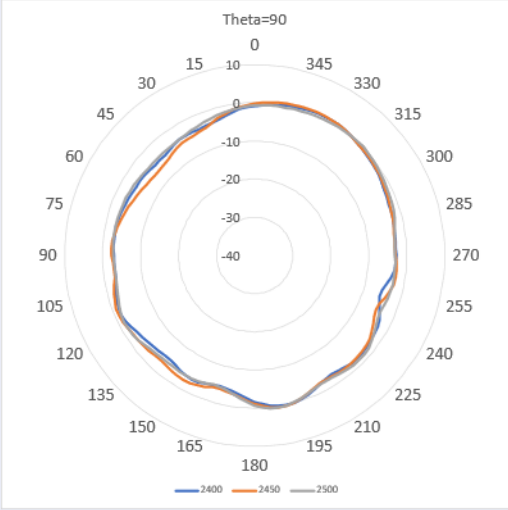
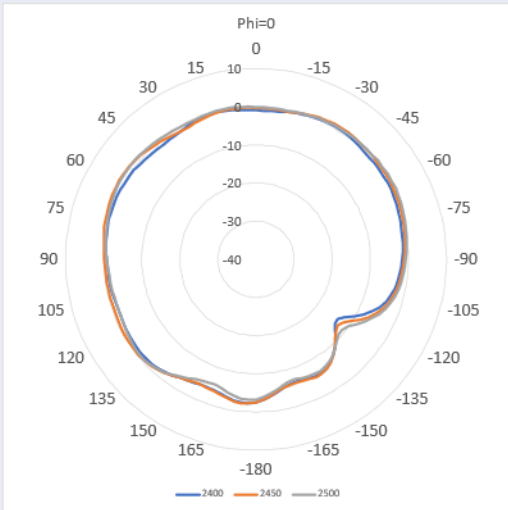
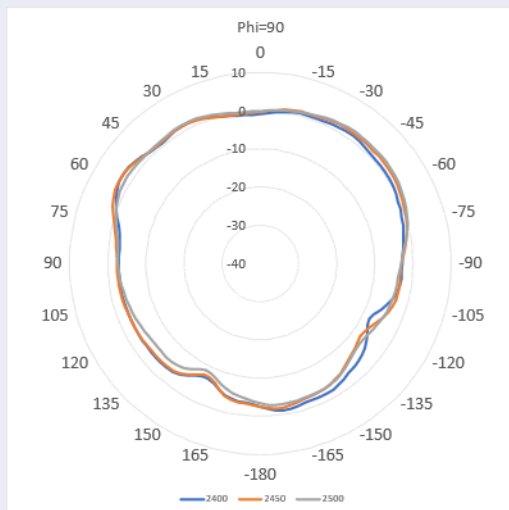



# S-parameter



# S-parameter



# ANT-1 2.4G 2D Radiation Pattern

Frequency(MHz)	2400~2500		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p> 	<p style="text-align: center;"><b>Z</b></p> 	<p style="text-align: center;"><b>Z</b></p> 



# ANT-2 2.4G 2D Radiation Pattern

Frequency(MHz)	2400~2500		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p> <p style="text-align: center;"><b>RJ</b></p>	<p style="text-align: center;"><b>Z</b></p> <p style="text-align: center;"><b>X</b></p>	<p style="text-align: center;"><b>Z</b></p> <p style="text-align: center;"><b>RJ</b></p>

# ANT-1 5G 2D Radiation Pattern

Frequency(MHz)	5150~5825		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p>	<p style="text-align: center;"><b>Z</b></p>	<p style="text-align: center;"><b>Z</b></p>

# ANT-2 5G 2D Radiation Pattern

Frequency(MHz)	5150~5825		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p>	<p style="text-align: center;"><b>Z</b></p>	<p style="text-align: center;"><b>Z</b></p>

# ANT-3 6G 2D Radiation Pattern

Frequency(MHz)	5925~7125		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p>	<p style="text-align: center;"><b>Z</b></p>	<p style="text-align: center;"><b>Z</b></p>

# ANT-4 6G 2D Radiation Pattern

Frequency(MHz)	5925~7125		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p> <p style="text-align: center;"><b>Y</b> <span style="float: right;"><b>RJ</b></span></p>	<p style="text-align: center;"><b>Z</b></p> <p style="text-align: center;"><b>X</b></p>	<p style="text-align: center;"><b>Z</b></p> <p style="text-align: center;"><b>Y</b> <span style="float: right;"><b>RJ</b></span></p>

# ANT-5 BT 2D Radiation Pattern

Frequency(MHz)	2400~2500		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p>	<p style="text-align: center;"><b>Z</b></p>	<p style="text-align: center;"><b>Z</b></p>

# 2.4G Combine 2D Radiation Pattern

Frequency(MHz)	2400~2500		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center; color: red; font-size: 24px;">X</p>	<p style="text-align: center; color: red; font-size: 24px;">Z</p>	<p style="text-align: center; color: red; font-size: 24px;">Z</p>

# 5G Combine 2D Radiation Pattern

Frequency(MHz)	5150~5825		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p>	<p style="text-align: center;"><b>Z</b></p>	<p style="text-align: center;"><b>Z</b></p>



# 6G Combine 2D Radiation Pattern

Frequency(MHz)	5925~7125		
Plane	Azimuth	Elevation(Phi=0)	Elevation(Phi=90)
Radiation Pattern			
Setup	<p style="text-align: center;"><b>X</b></p> <p style="text-align: center;"><b>Y</b> <span style="float: right;"><b>RJ</b></span></p>	<p style="text-align: center;"><b>Z</b></p> <p style="text-align: center;"><b>X</b></p>	<p style="text-align: center;"><b>Z</b></p> <p style="text-align: center;"><b>Y</b> <span style="float: right;"><b>RJ</b></span></p>

# Gain Table

Ant.1						
Frequency (MHz)	2400	2450	2500	5150	5550	5825
Efficiency(%)	71	75	76	69	74	73
Peak Gain(dBi)	3.0	2.9	3.1	3.6	3.7	3.7
Ant.2						
Frequency (MHz)	2400	2450	2500	5150	5550	5825
Efficiency(%)	65	70	70	69	69	68
Peak Gain(dBi)	2.7	2.7	2.8	3.8	3.8	2.9
Ant.3						
Frequency (MHz)	5925	6500	6725	7125		
Efficiency(%)	64	70	63	60		
Peak Gain(dBi)	4.1	4.5	4.5	3.7		
Ant.4						
Frequency (MHz)	5925	6500	6725	7125		
Efficiency(%)	75	73	69	70		
Peak Gain(dBi)	4.5	4.1	4.5	4.0		
Ant.5						
Frequency (MHz)	2400	2450	2500			
Efficiency(%)	68	74	74			
Peak Gain(dBi)	3.2	4.1	4.6			

## The antenna characteristics

- Efficiency
  - 2G > 60% , 5G > 60%
  - 6GHz Band ≥60%
  - BT > 65%
- Gain
  - 2G Band 2.7~3.1dBi , 5G Band 2.9 ~ 3.8dBi
  - 6GHz Band 3.7~4.5dBi
  - BT 3.2~4.6dBi

**LITEON** *Thank You*