

WLRRTES-106 Antenna Test Report Vt01

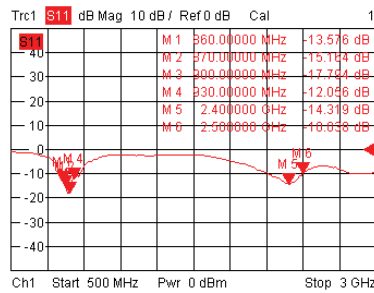
2020/8/25

Antenna Overview

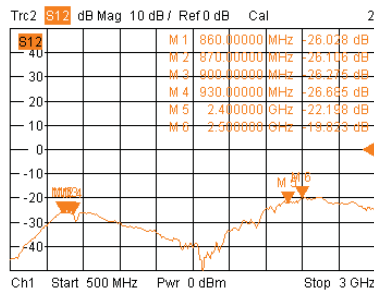


Return Loss & Isolation

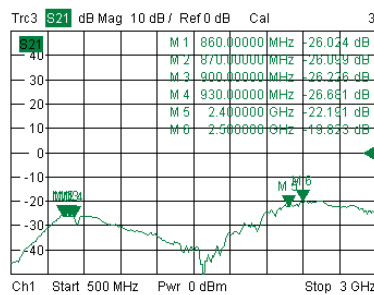
Return Loss
LoRa Ant.



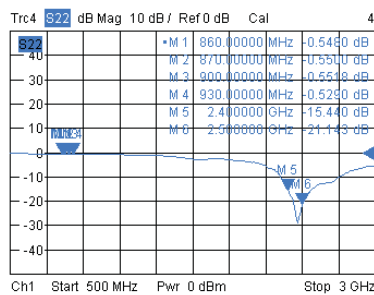
Isolation
LoRa & Wifi Ant.



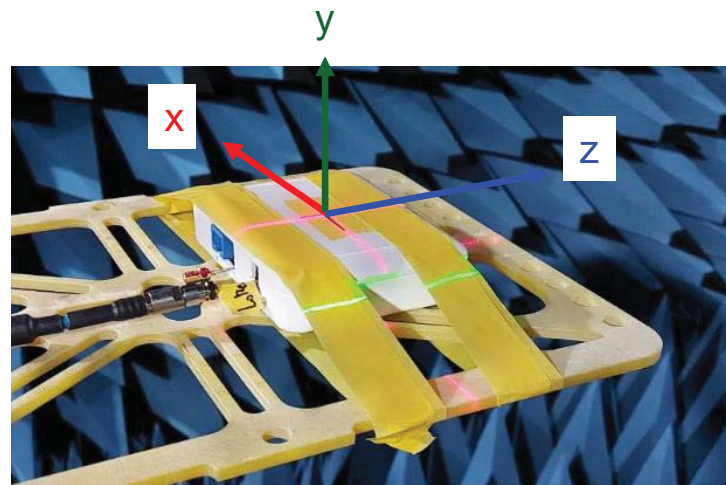
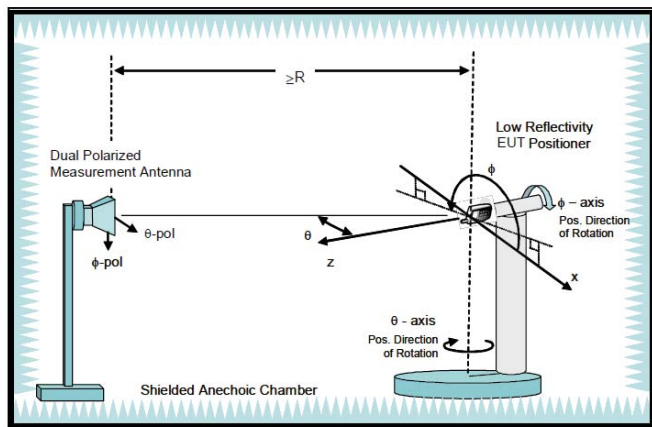
Isolation
LoRa & Wifi Ant.



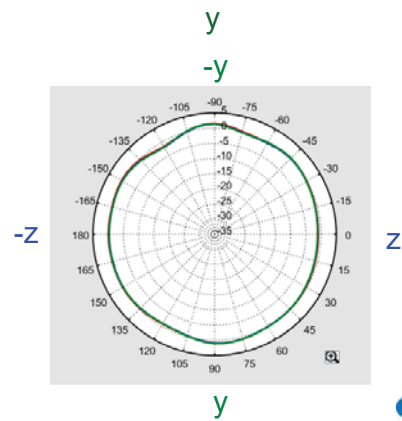
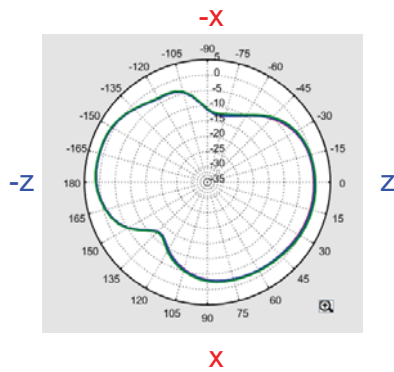
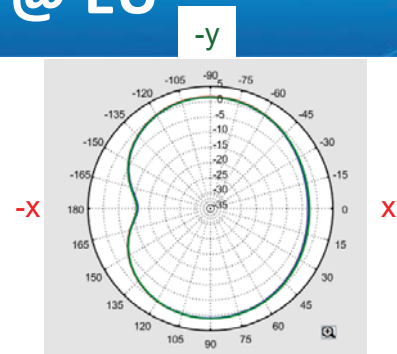
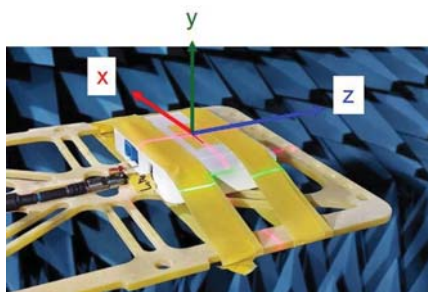
Return Loss
Wifi Ant.



Antenna Coordinate System Definition

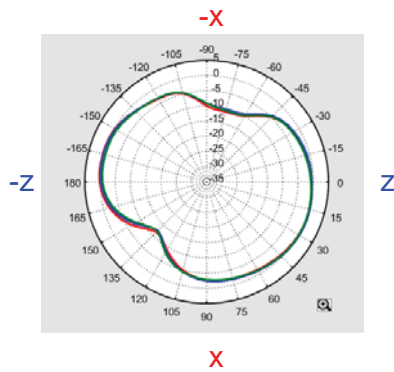
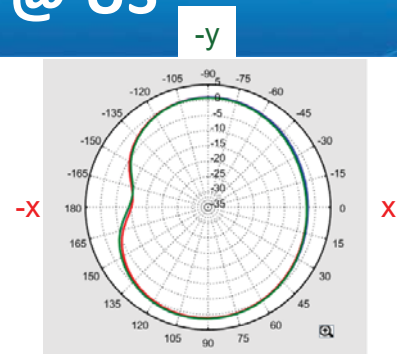
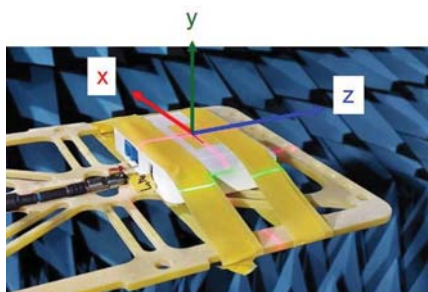


LoRa Ant. GainTotal (dBi) Pattern @ EU

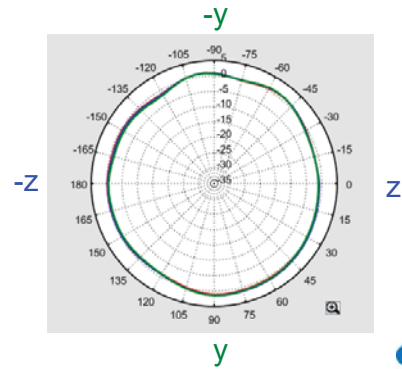


860MHz —
865MHz —
870MHz —

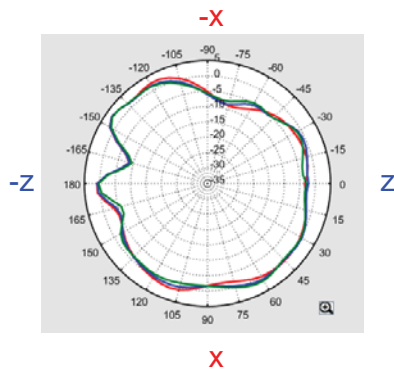
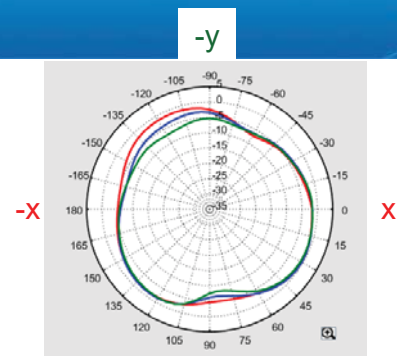
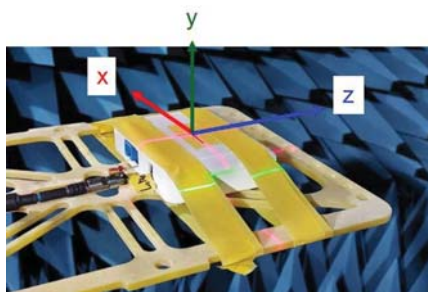
LoRa Ant. GainTotal (dBi) Pattern @ US



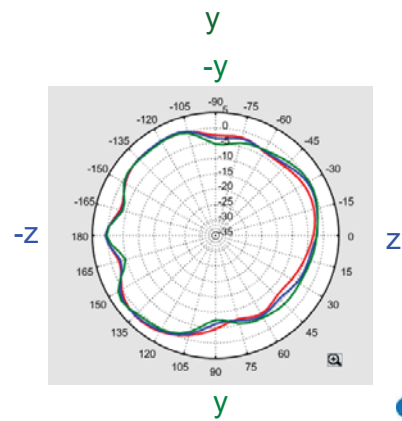
900MHz
915MHz
930MHz



Wifi Ant. GainTotal (dBi) Pattern



2400MHz —
2450MHz —
2500MHz —



Antenna Efficiency & Peak Gain

LoRa Antenna						
Frequency (MHz)	860	865	870	900	915	930
Efficiency (%)	72.28	70.79	73.11	72.44	74.99	71.94
3D Peak Gain (dBi)	1.58	1.42	1.53	1.2	1.47	1.46

Wifi Antenna			
Frequency (MHz)	2400	2450	2500
Efficiency (%)	74.64	74.99	71.78
3D Peak Gain (dBi)	3.01	2.99	2.48