



U6 Plus Antenna Report

2022/08/01



Revision	Date	Description	Author
V.01	2022.04.29	1. Antenna design and simulation 2. Leverage from [U6 Lite] or [UAP-AC-Pro G2]	Mark Hung
V.02	2022.06.16	Antenna performance validation of SR2 sample	Mark Hung
V.03	2022.08.01	Antenna performance validation of SRT1 sample	Mark Hung

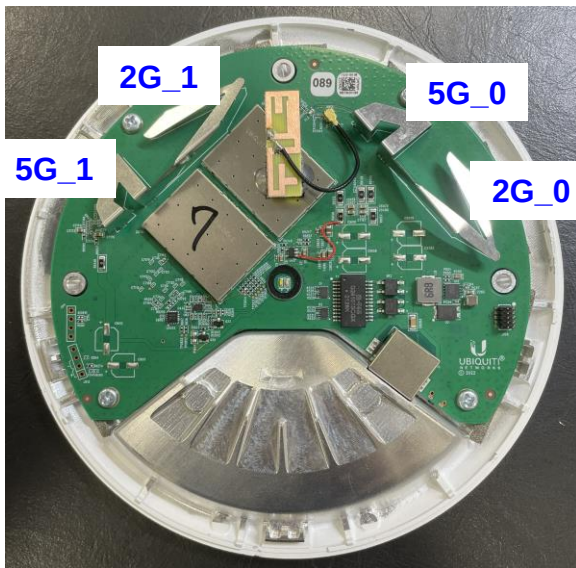
DUT and Test Environment



- DUT: U6+_SRT1

	function	Type	Con.
2G_0	2G	stamping	N/A
2G_1	2G	stamping	N/A
5G_0	5G	stamping	N/A
5G_1	5G	stamping	N/A

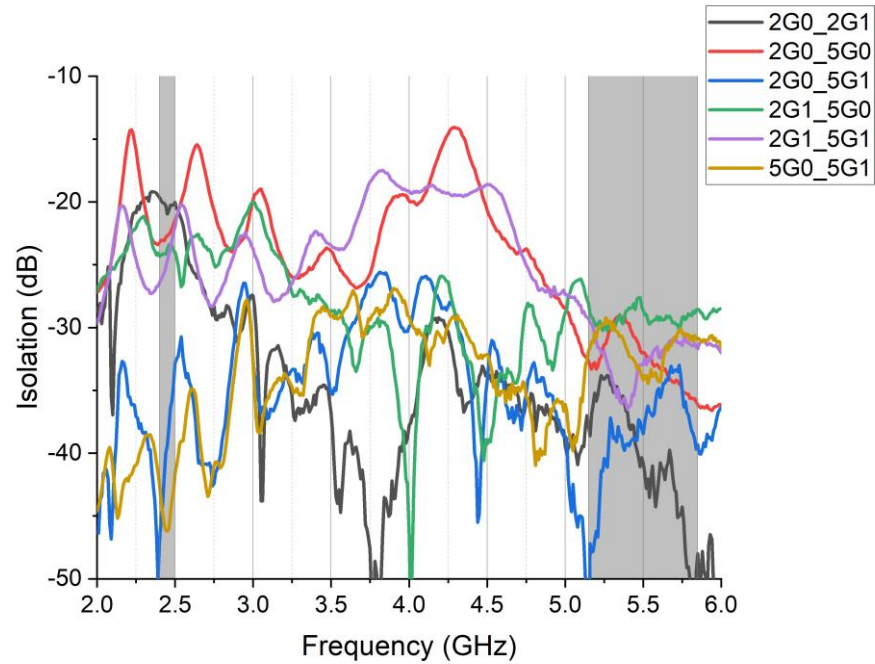
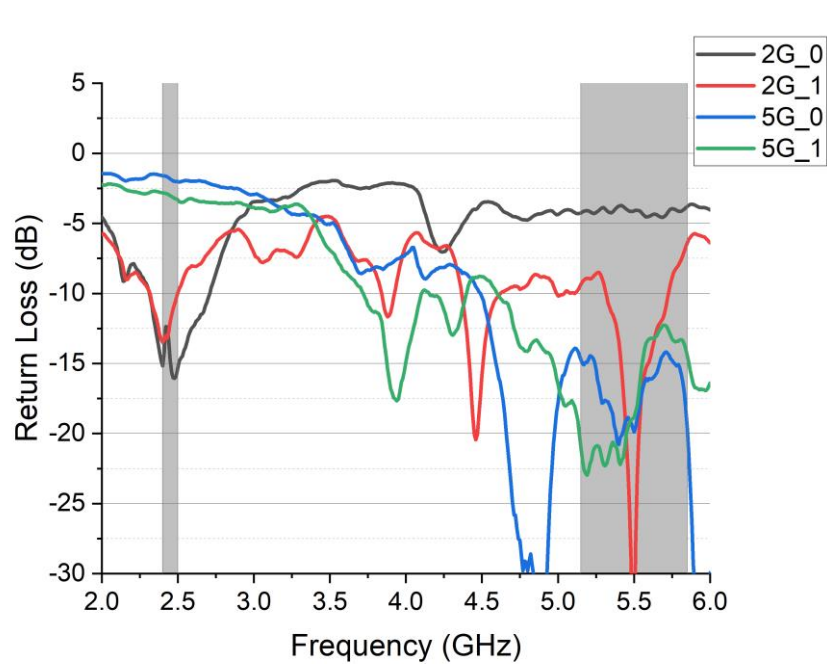
Radio:
2G:2x2
5G:2x2



- Chamber: UI SATIMO



S Parameter



Antenna Efficiency and Gain



2G_0			
Fre.(MHz)	Efficiency(%)		Gain (dBi)
	U6+	U6 Lite	
2400	50	48	3.08
2450	54	44	4.01
2500	47	46	4.43

2G_1			
Fre.(MHz)	Efficiency(%)		Gain (dBi)
	U6+	U6 Lite	
2400	59	54	2.75
2450	60	57	2.41
2500	58	64	1.58

5G_0			
Fre.(MHz)	Efficiency(%)		Gain (dBi)
	U6+	U6 Lite	
5150	63	49	5.16
5250	66	38	5.11
5350	62	42	5.12
5450	68	40	5.18
5550	63	39	4.83
5650	63	34	4.65
5750	63	35	5.62
5850	65	38	6.38

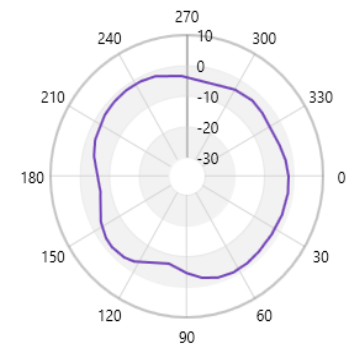
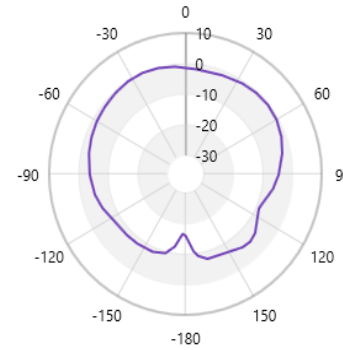
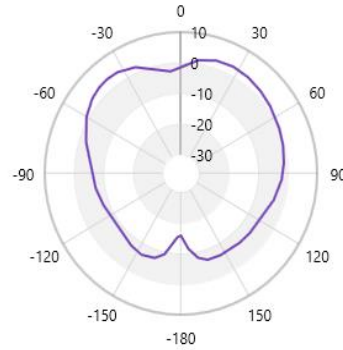
5G_1			
Fre.(MHz)	Efficiency(%)		Gain (dBi)
	U6+	U6 Lite	
5150	56	42	2.85
5250	58	45	3.5
5350	55	46	3.54
5450	56	44	3.99
5550	53	43	4.41
5650	52	30	4.77
5750	51	30	5.21
5850	50	31	5.77

Radiation Pattern_2G



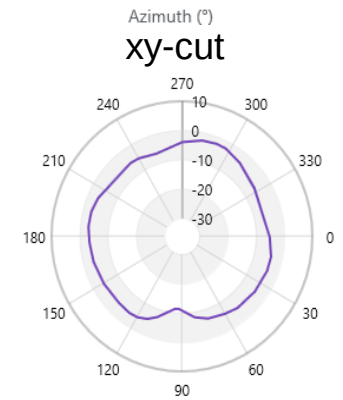
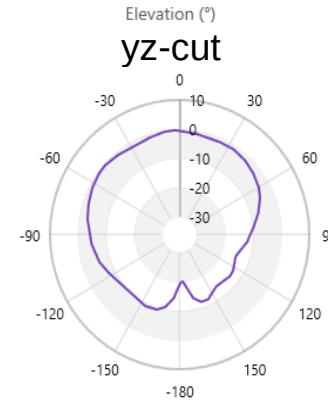
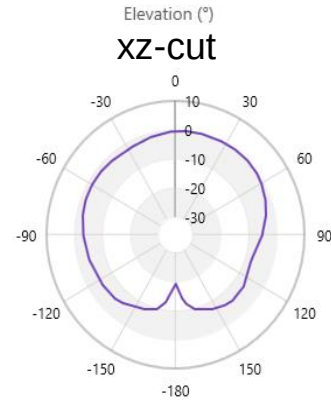
- 2G_0

— 2450 MHz 0 ° E Total



- 2G_1

— 2450 MHz 0 ° E Total

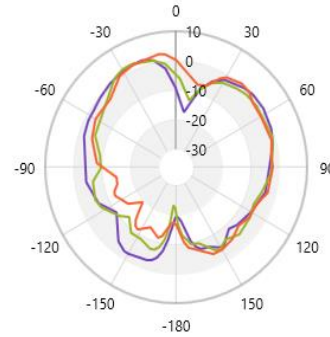


Radiation Pattern_5G



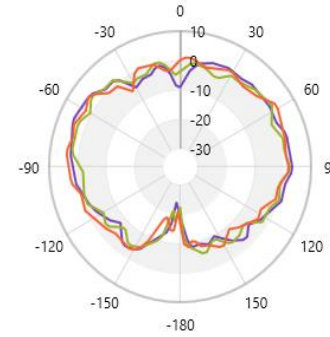
- 5G_0

— 5150 MHz 0° E Total
— 5550 MHz 0° E Total
— 5850 MHz 0° E Total



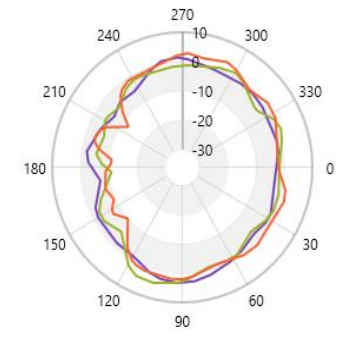
Elevation (°)

xz-cut



Elevation (°)

yz-cut

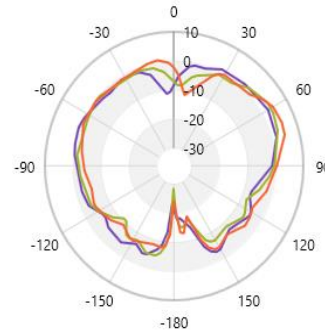


Azimuth (°)

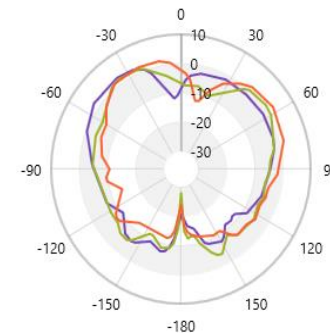
xy-cut

- 5G_1

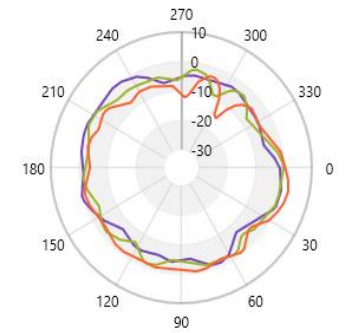
— 5150 MHz 0° E Total
— 5550 MHz 0° E Total
— 5850 MHz 0° E Total



Elevation (°)



Elevation (°)



Azimuth (°)

