

MEMOR 30/30X SPECIFICATION

Antenna Manufacturer	Haitong: Ant8, Ant9
Frequency Range	Ant 8: 1575, 2400~2500, 5150~7125MHz Ant 9: 2400~2500, 5150~7125MHz
Impedance	50 Ohms
Antenna type	Loop type: Ant9 Monopole+Coupling type: Ant8
Process	LDS and FPC
TEST DATA	2024/03/06
DATASHEET REVISION	Rev 00

Authorized by *Ruggiero Coccioppo*

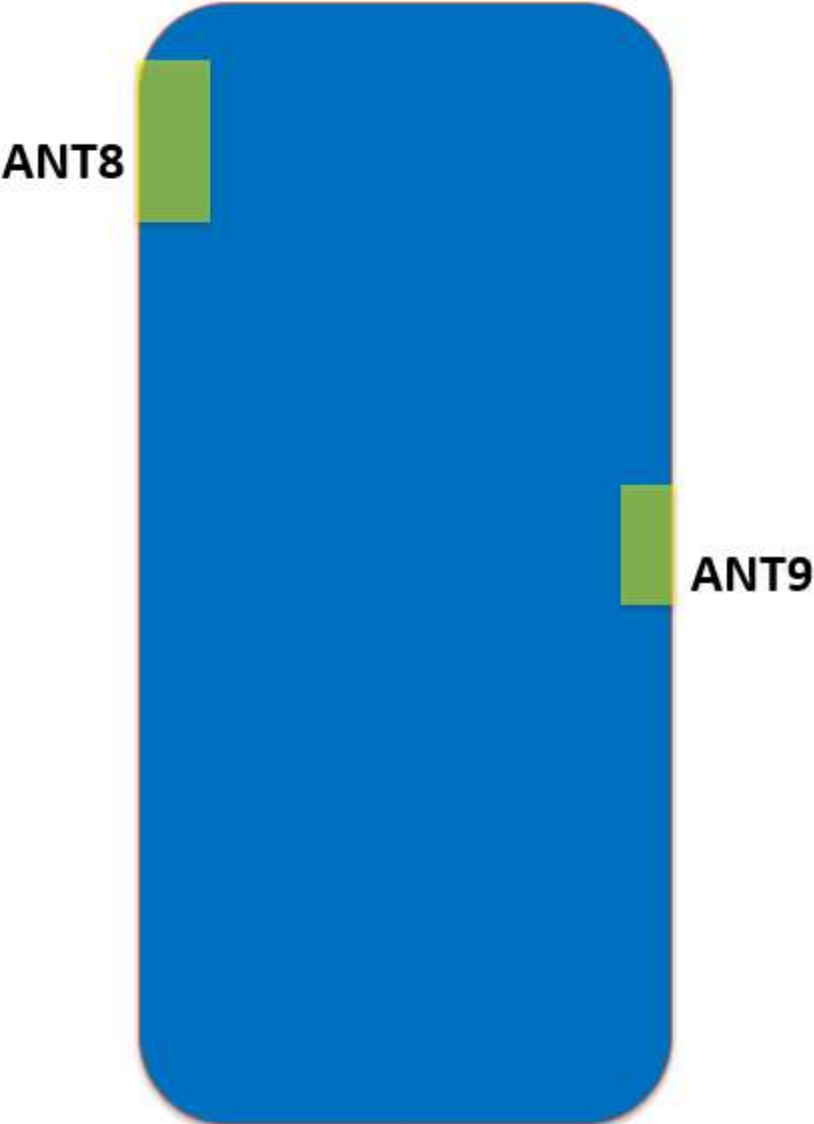
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Antenna Location



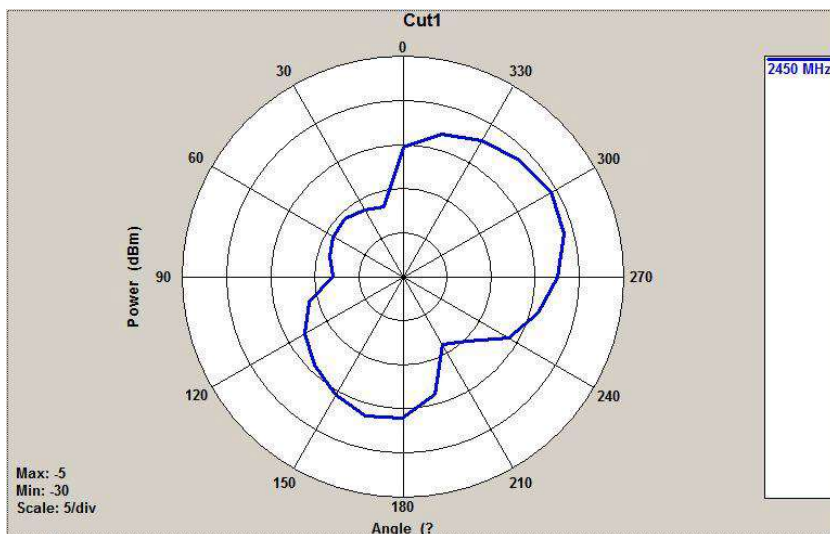
Antenna Gain

ANT8 (WiFi/BT/GPS)			ANT9 (WiFi)		
Freq	Efficiency	Peak Gain	Freq	Efficiency	Peak Gain
1559	-4.52	-0.56	2400	-3.99	0.30
1575	-4.41	-0.36	2410	-3.95	0.24
1610	-4.44	-0.55	2420	-3.79	0.28
2400	-4.64	-1.40	2430	-3.74	0.25
2410	-4.51	-1.69	2440	-3.92	0.30
2420	-4.38	-1.42	2450	-3.89	0.30
2430	-4.35	-1.50	2460	-3.82	0.28
2440	-4.37	-1.53	2470	-3.97	0.26
2450	-4.41	-1.10	2480	-3.95	0.27
2460	-4.40	-1.84	2490	-3.86	0.18
2470	-4.40	-1.97	2500	-3.82	0.20
2480	-4.43	-1.93	5150	-3.78	0.50
2490	-4.39	-1.50	5200	-3.77	-0.19
2500	-4.33	-1.30	5250	-3.86	0.10
5150	-3.96	0.30	5300	-3.67	-0.08
5200	-3.88	0.54	5350	-3.62	0.60
5250	-3.66	0.90	5400	-4.02	-0.61
5300	-3.60	0.87	5450	-3.91	0.60
5350	-3.66	0.80	5500	-3.90	0.46
5400	-3.35	1.05	5550	-3.92	0.20
5450	-3.40	1.00	5600	-3.90	0.59
5500	-3.25	1.08	5650	-4.03	0.80
5550	-3.01	1.20	5700	-4.06	0.78
5600	-3.19	1.57	5750	-4.03	1.10
5650	-3.25	1.70	5800	-3.85	1.10
5700	-3.27	1.67	5850	-3.64	-0.20
5750	-2.94	2.10	5925	-3.40	0.49
5800	-3.05	2.03	5950	-3.43	0.85
5850	-2.93	2.00	6025	-3.52	1.20
5925	-3.08	1.30	6125	-3.51	0.45
5950	-3.13	1.49	6225	-3.57	1.20
6025	-2.95	1.60	6325	-3.39	1.20
6125	-2.70	1.16	6425	-3.44	0.60
6225	-3.28	0.90	6525	-3.57	0.44
6325	-3.23	1.31	6625	-3.97	0.60
6425	-3.63	1.20	6725	-4.04	0.13
6525	-3.36	0.34	6825	-3.82	0.20
6625	-3.65	0.40	6925	-4.00	0.23
6725	-3.51	0.38	7025	-3.97	0.30
6825	-3.89	0.40	7125	-3.79	0.08
6925	-3.84	1.13			
7025	-3.84	1.30			
7125	-3.97	0.56			

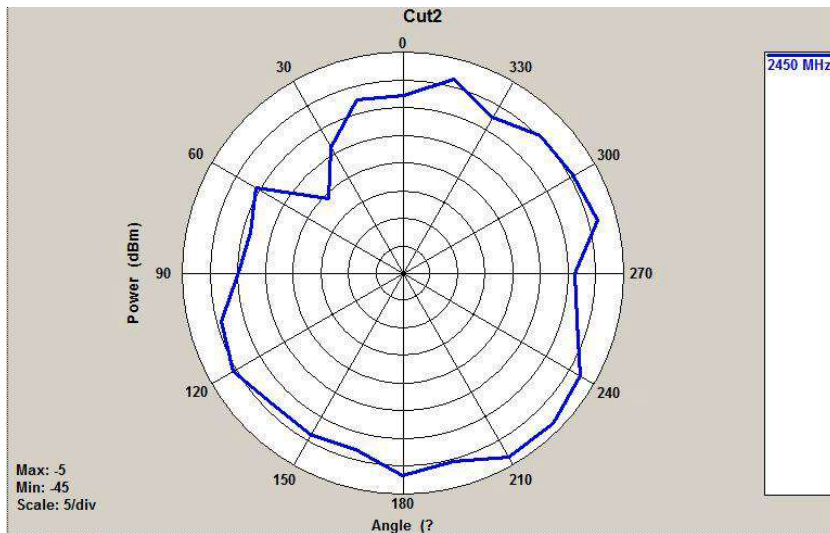
2D Radiation Pattern

Ant 8(GPS L1+WIFI)_2450MHz

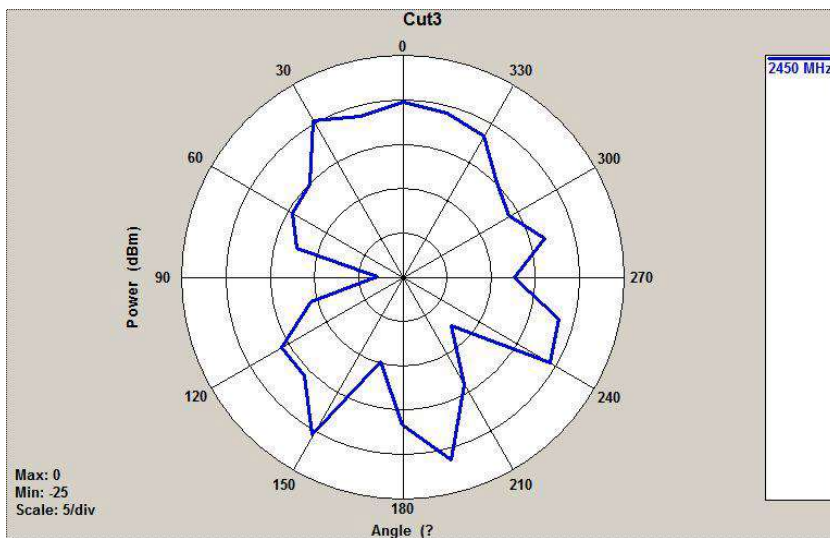
XY



XZ

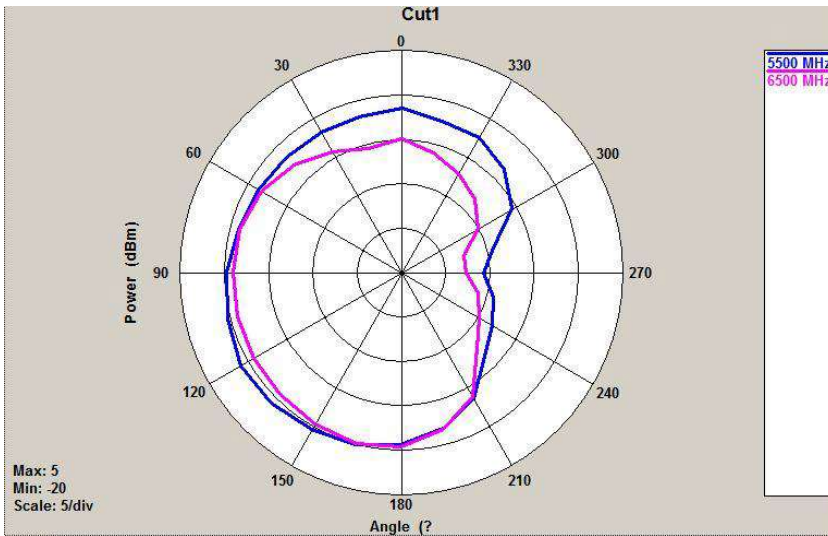


YZ

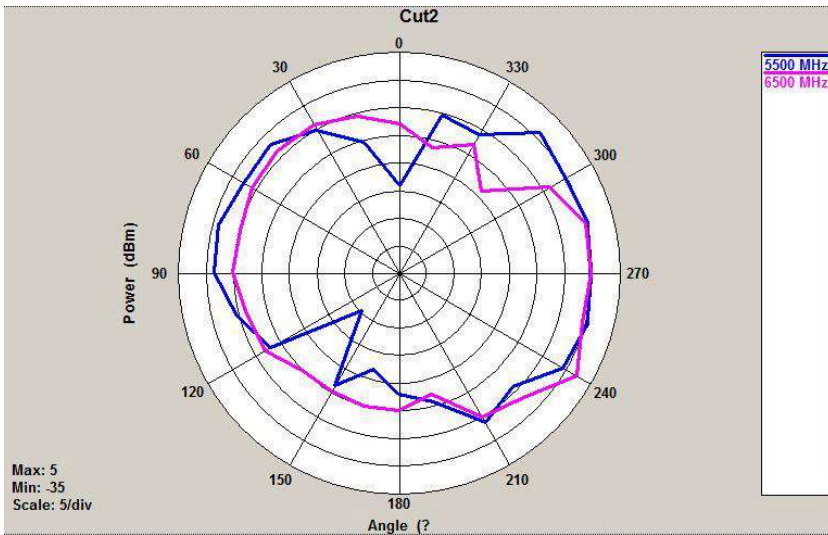


Ant 8(GPS L1+WIFI)_5500MHz_6500MHz

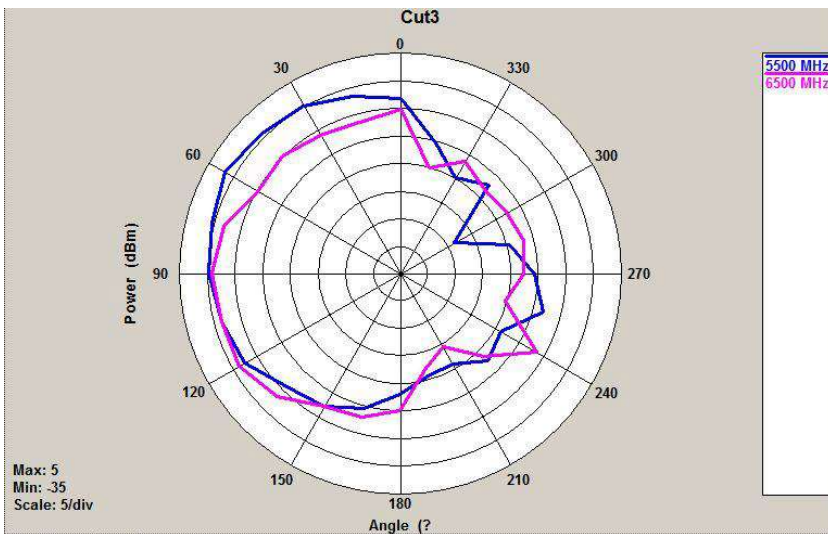
XY



XZ

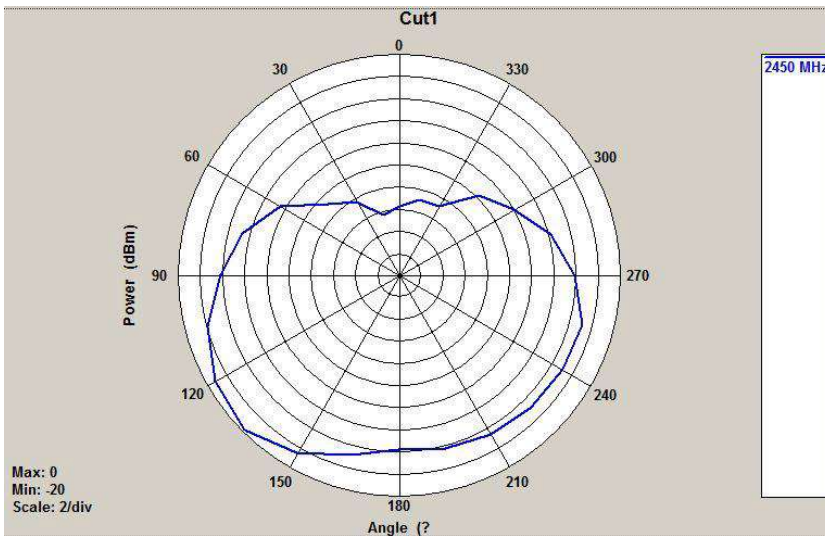


YZ

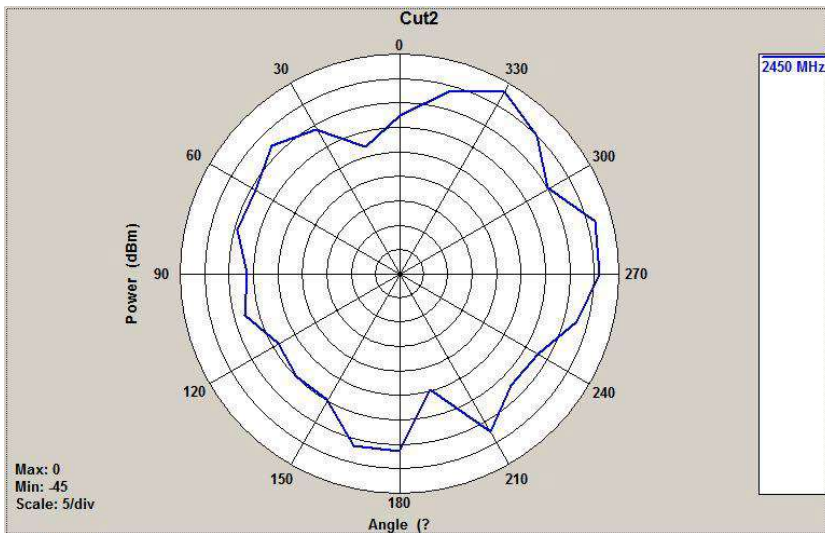


Ant 9(WIFI)_2450MHz

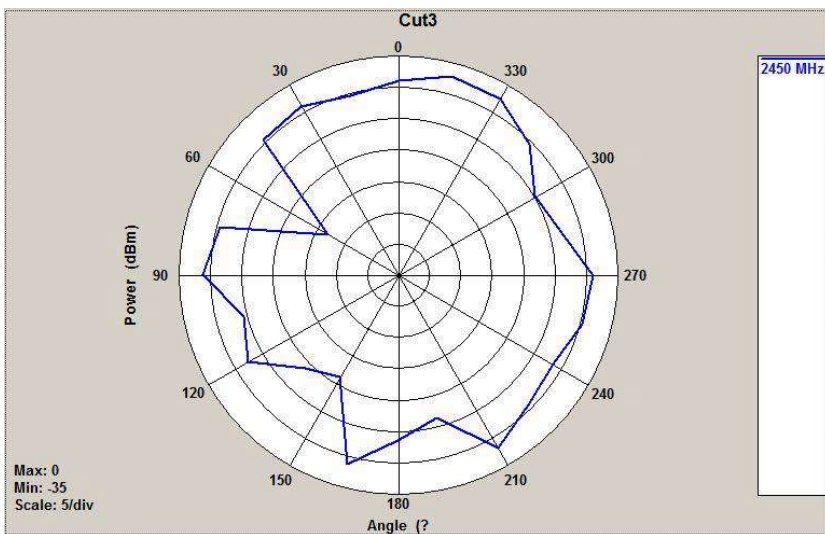
XY



XZ

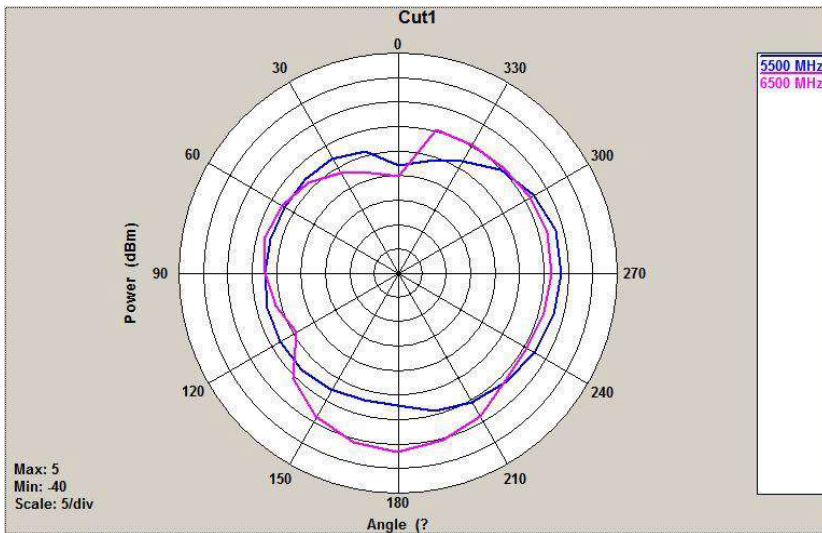


YZ

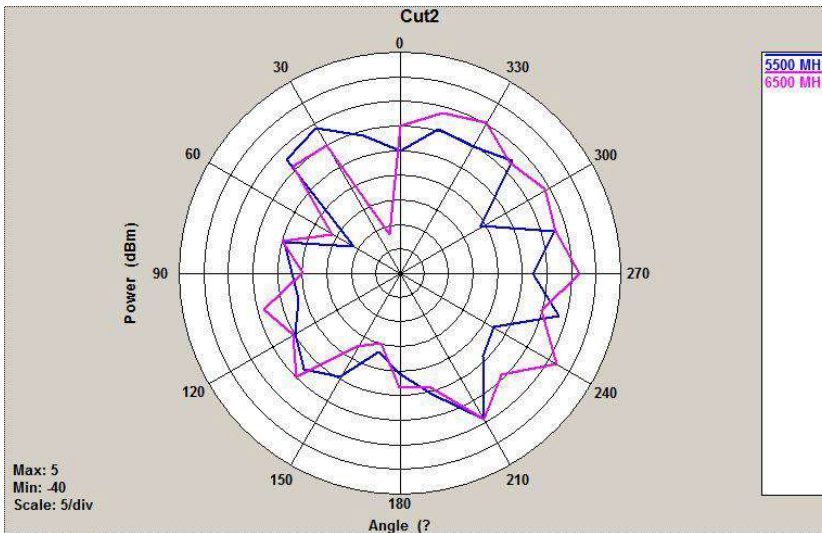


Ant 9(WIFI)_5500MHz_6500MHz

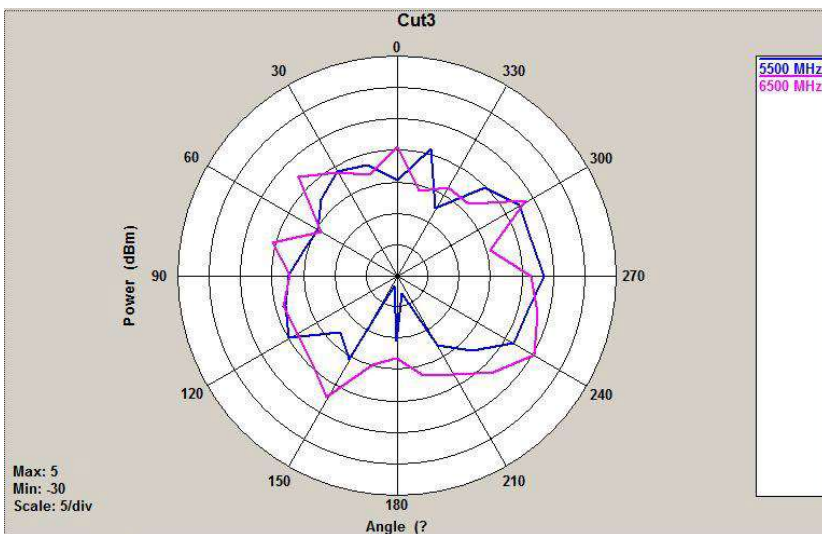
XY



XZ



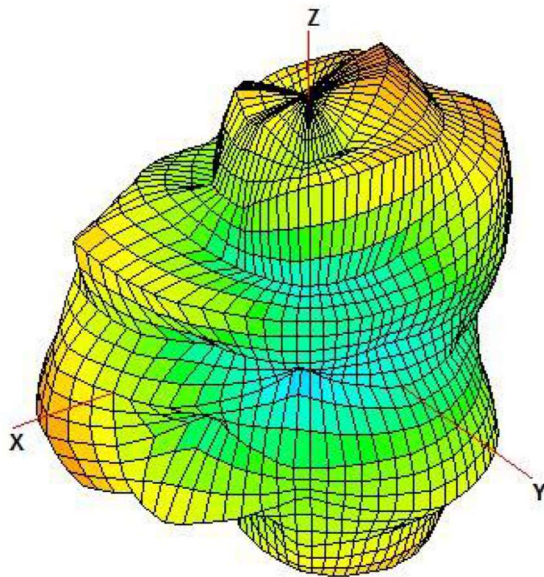
YZ



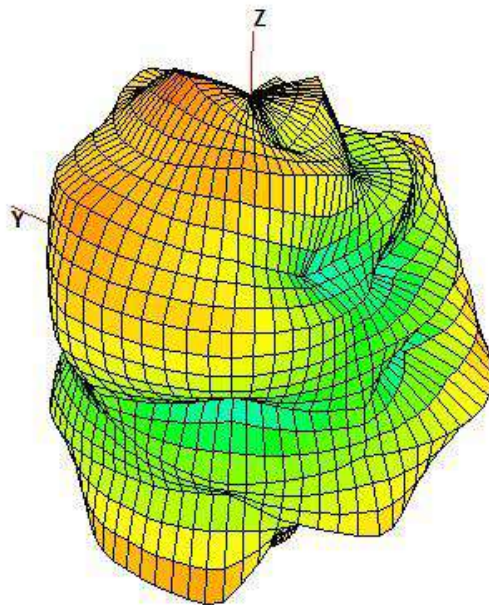
3D Radiation Pattern

Ant 8(GPS L1+WIFI)_2450MHz

Azimuth = 125.0
Elevation = -45.0
Roll = -45.0

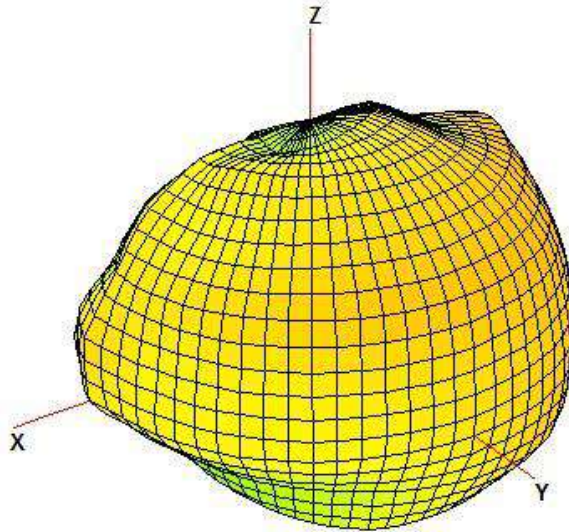


Azimuth = -65.0
Elevation = 30.0
Roll = 50.0

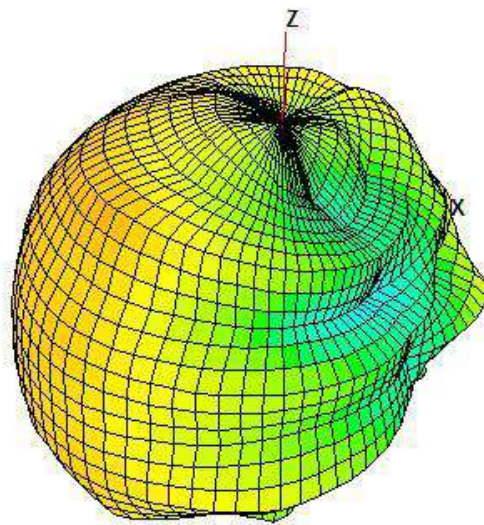


Ant 8(GPS L1+WIFI)_5500MHz

Azimuth = 125.0
Elevation = -45.0
Roll = -45.0

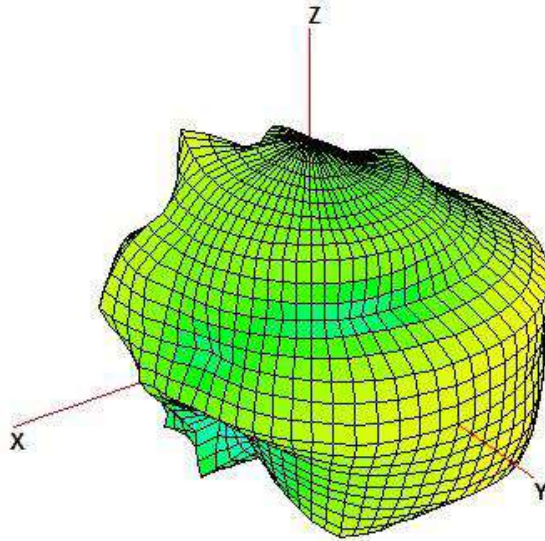


Azimuth = -65.0
Elevation = 30.0
Roll = 50.0

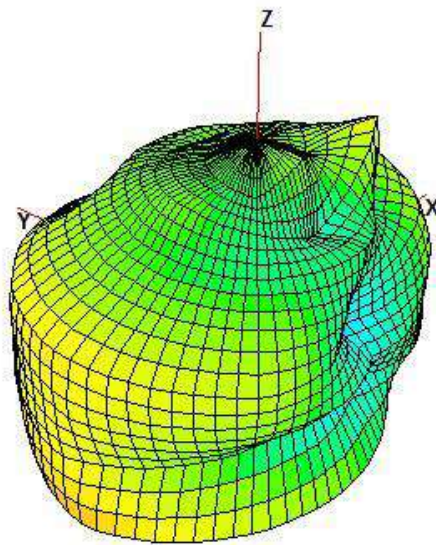


Ant 8(GPS L1+WIFI)_6500MHz

Azimuth = 125.0
Elevation = -45.0
Roll = -45.0

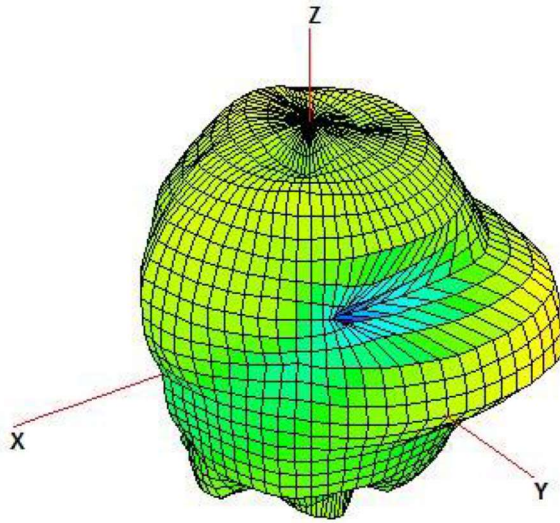


Azimuth = -65.0
Elevation = 30.0
Roll = 50.0

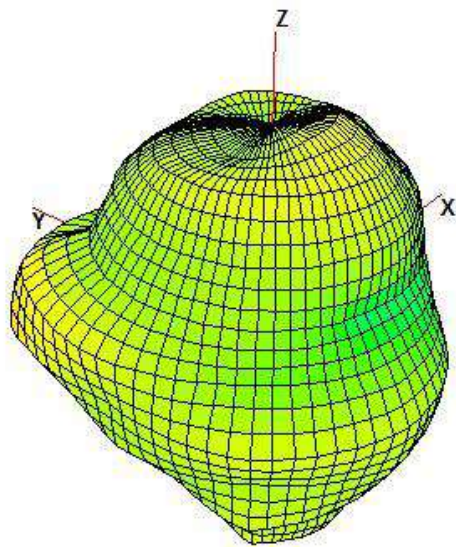


Ant 9(WIFI)_2450MHz

Azimuth = 125.0
Elevation = -45.0
Roll = -45.0

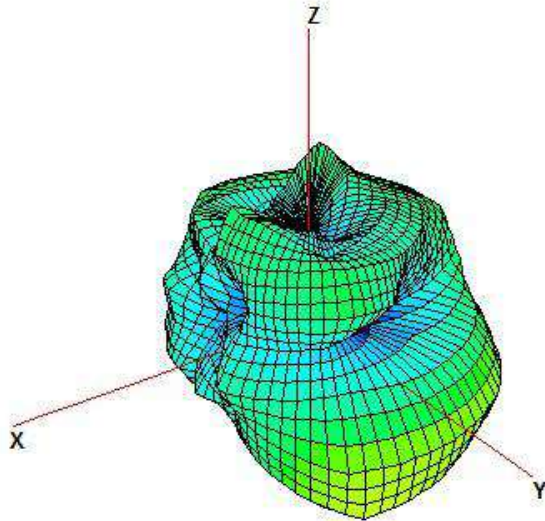


Azimuth = -65.0
Elevation = 30.0
Roll = 50.0

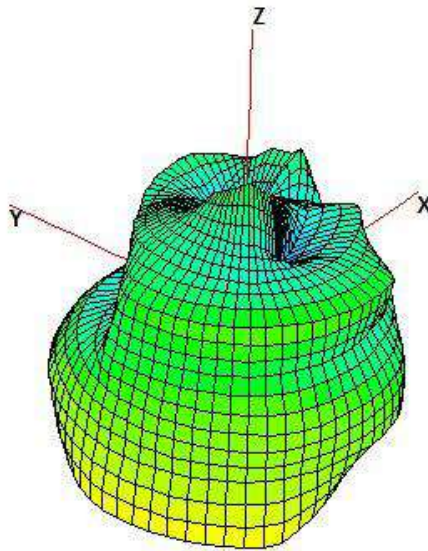


Ant 9(WIFI)_5500MHz

Azimuth = 125.0
Elevation = -45.0
Roll = -45.0

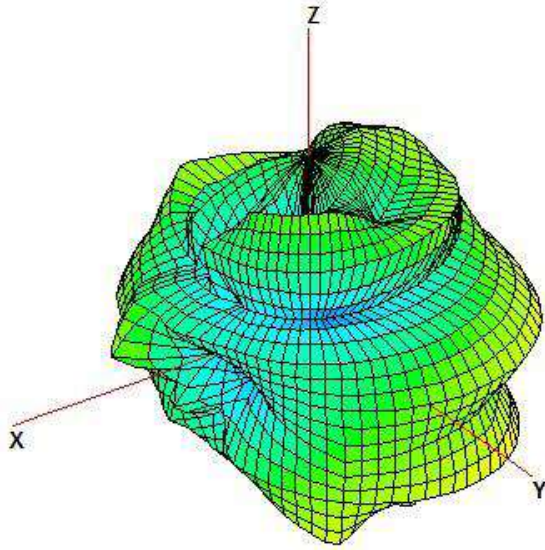


Azimuth = -65.0
Elevation = 30.0
Roll = 50.0

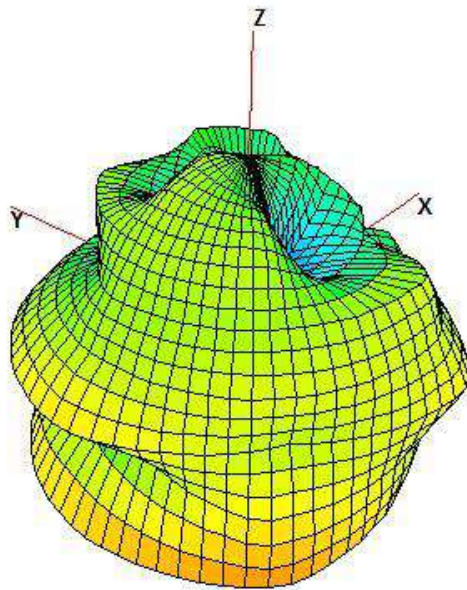


Ant 9(WIFI)_6500MHz

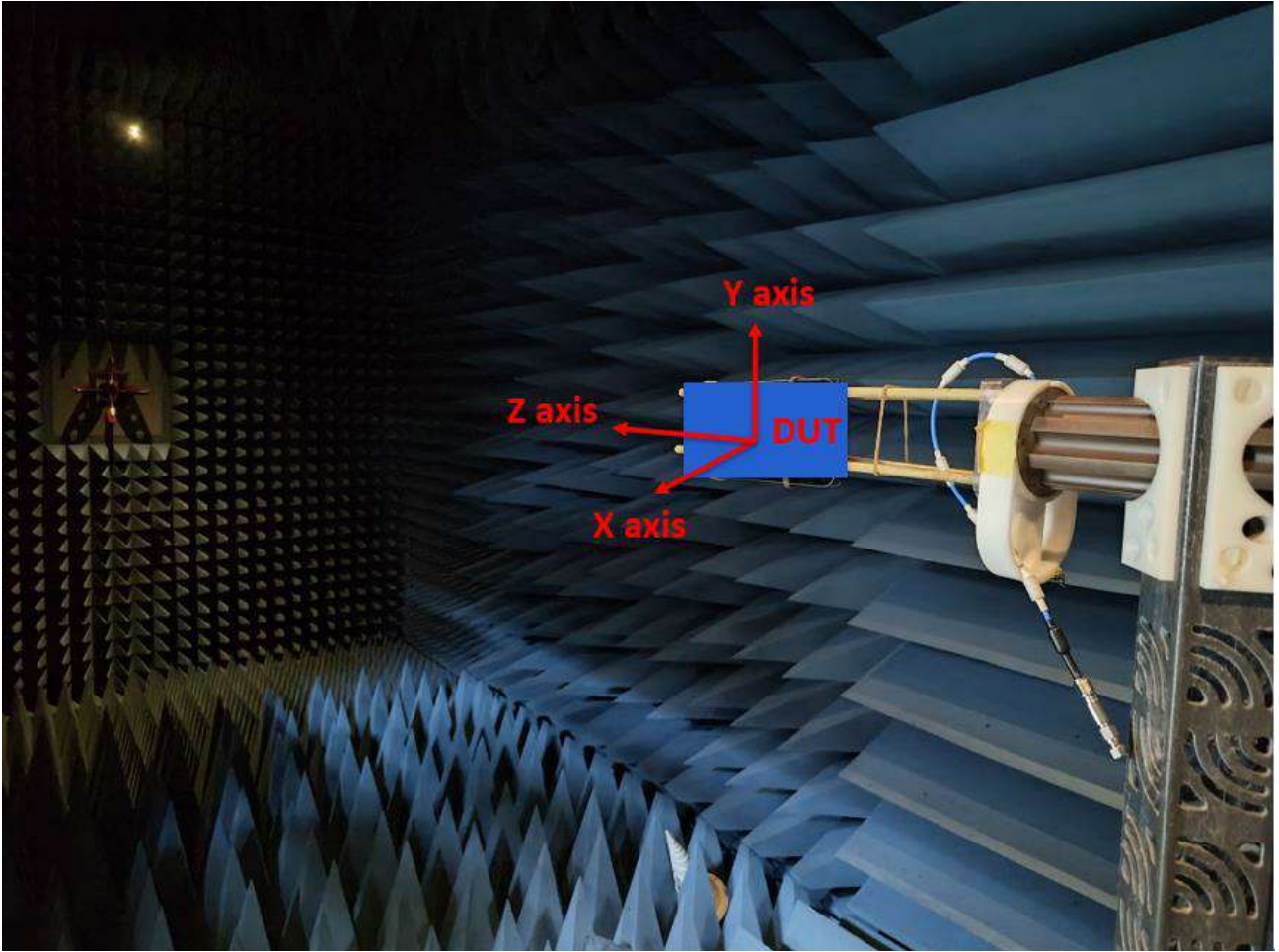
Azimuth = 125.0
Elevation = -45.0
Roll = -45.0



Azimuth = -65.0
Elevation = 30.0
Roll = 50.0



Test Environment & Equipment



Test & System Description

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Network analyzer	Agilent	E5071C	2023/6/13	2024/6/13
Measurement software	ETS-Lindgren	<u>EMQuest</u>	2023/10/15	2024/10/15
<u>EMCenter</u>	ETS-Lindgren	7000-001	2023/10/15	2024/10/15
Multi-device controller	ETS-Lindgren	Model 2090	2023/10/15	2024/10/15
Horn antenna	ETS-Lindgren	3164-08	2023/10/15	2024/10/15