



TCW01G Antenna SPECIFICATION

Antenna Manufacturer Name	Universal Global Scientific Industrial Co., Ltd.
Address	No.141, Lane 351, Sec.1, Taiping Road, Tsautuen, Nantou County 542007, Taiwan
ODM P/N:	46-500669-01
Test DATE	2026/03/30
DATASHEET REVISION	V1
Ant. Type (IFA)	Ant-1, Ant-5, Ant-6, Ant-7, Ant-8, Ant-9
Ant. Type (Loop)	NFC

Sam Liu

Test Engineer:



Description of Antenna

Antenna 6 Structure	
Frequency Range	2400-2500MHz, 5150-5850MHz and 5925-7125MHz
Impedance	50 ohm
Antenna type	IFA
Manufacturing Process	LDS

Antenna Ant-6 Peak Gain

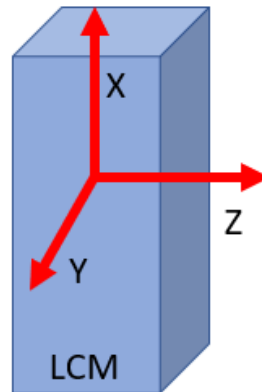
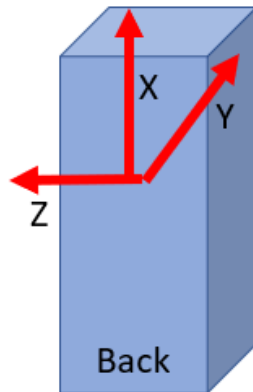
Ant 6	
Frequency (MHz)	Peak gain (dBi)
2400	0.44
2450	0.61
2500	0.18
5150	-0.69
5250	-0.52
5350	-0.33
5450	-0.24
5550	-0.28
5650	-0.42
5750	-0.32
5850	-0.34
5925	-0.88
6425	-1.22
6525	-1.48
6875	-1.46
7125	-1.52

Antenna Ant-6 UHIS

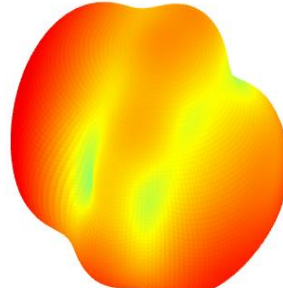
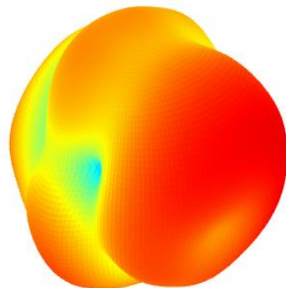
Frequency (MHz)	UHIS
1560	-6.84
1570	-6.77
1580	-6.46
1590	-6.61
1600	-6.89
1610	-7.05

Antenna Radiation Patterns

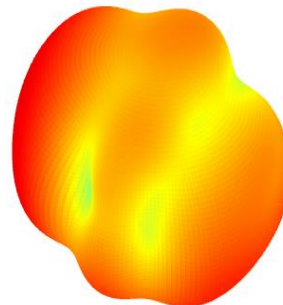
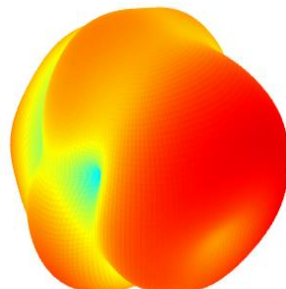
DUT Axis Reference



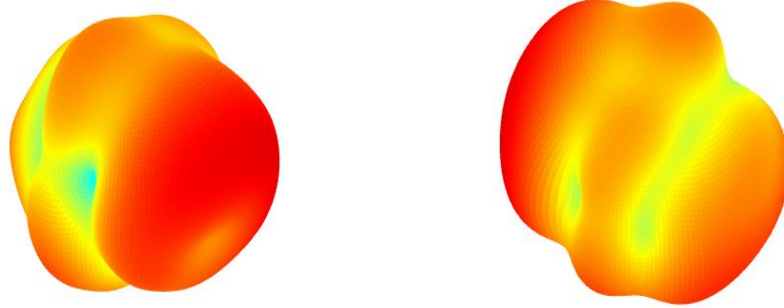
- 2400 MHz



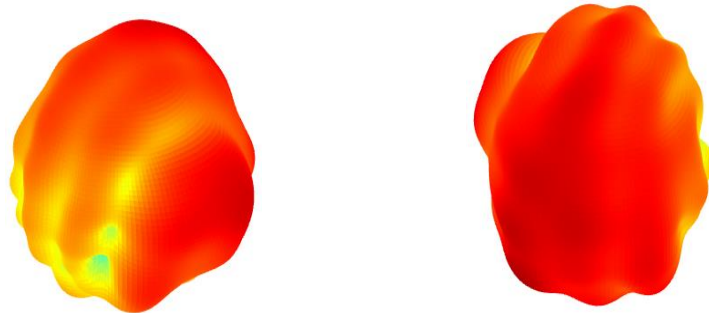
- 2450 MHz



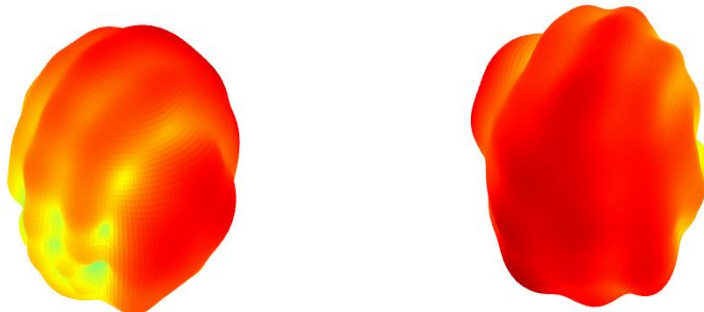
- 2500 MHz



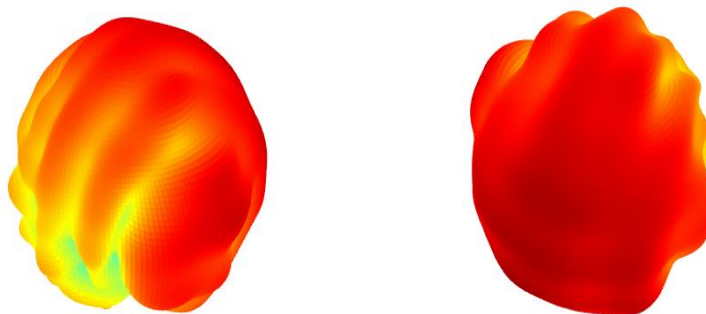
- 5150 MHz



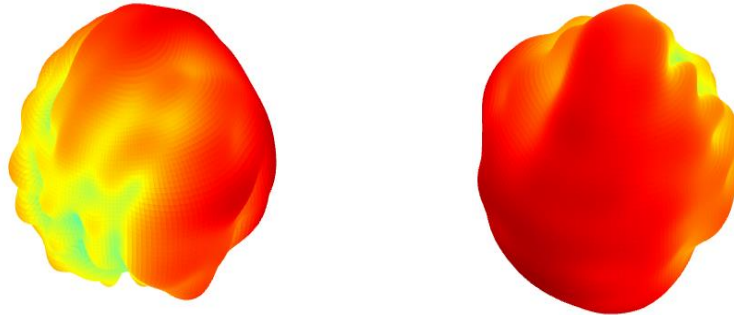
- 5450 MHz



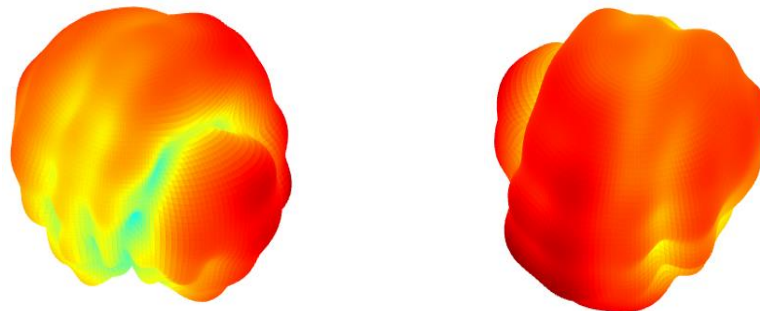
- 5850 MHz



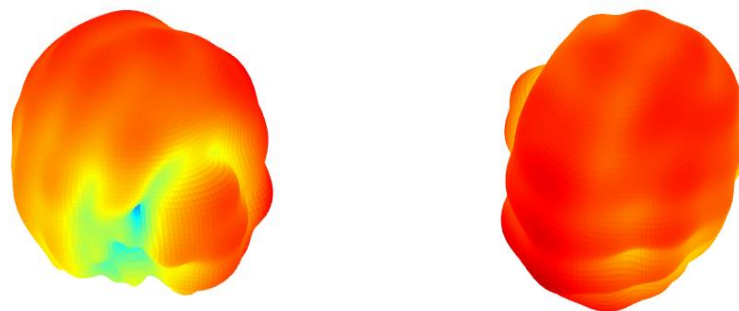
- 5925 MHz



- 6525 MHz



- 7125 MHz





Antenna 7 Structure

Frequency Range	2400-2500MHz, 5150-5850MHz and 5925-7125MHz
Impedance	50 ohm
Antenna type	IFA
Manufacturing Process	LDS

Antenna Ant-7 Peak Gain

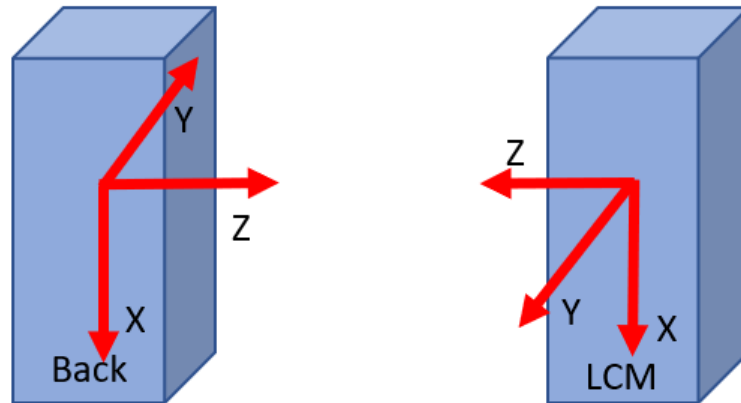
Ant 7	
Frequency (MHz)	Peak gain (dBi)
2400	1.22
2450	1.33
2500	1.09
5150	0.69
5250	0.88
5350	0.73
5450	0.87
5550	0.93
5650	0.89
5750	0.75
5850	0.83
5925	0.85
6425	0.62
6525	0.69
6875	0.53
7125	0.43

Antenna Ant-7 UHIS

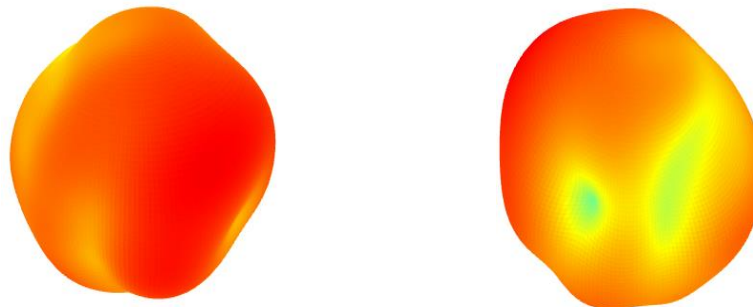
Frequency (MHz)	UHIS
1160	-8.56
1170	-8.28
1180	-8.66
1190	-8.53

Antenna Radiation Patterns

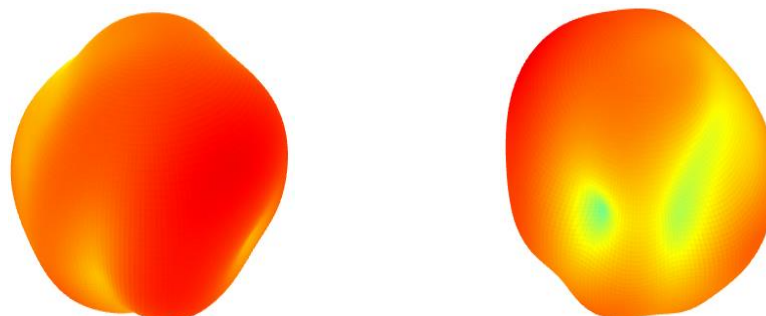
DUT Axis Reference



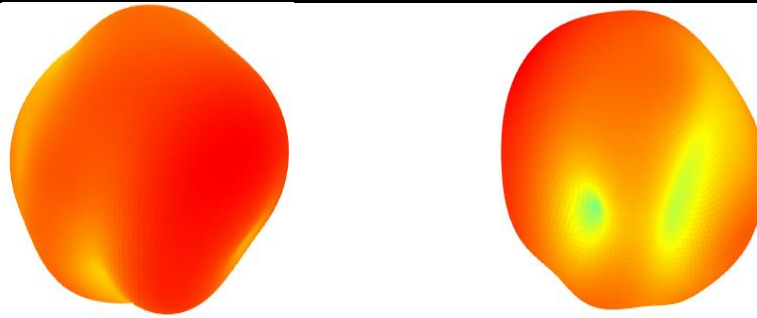
- 2400 MHz



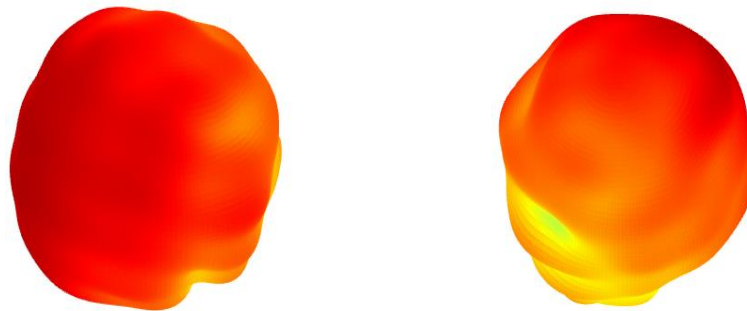
- 2450 MHz



- 2500 MHz



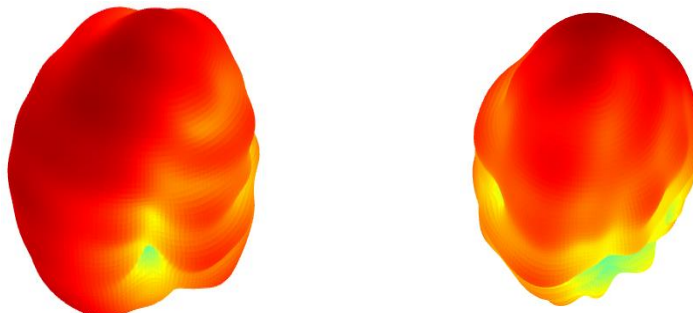
- 5150 MHz



- 5450 MHz



- 5850 MHz

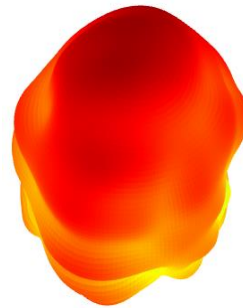
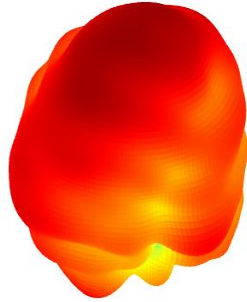




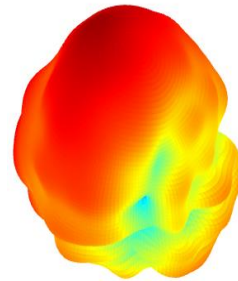
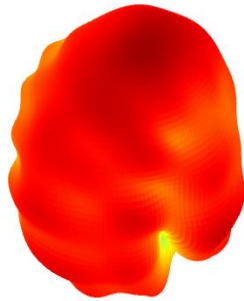
ZEBRA

Zebra Technologies Corporation

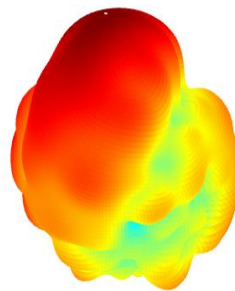
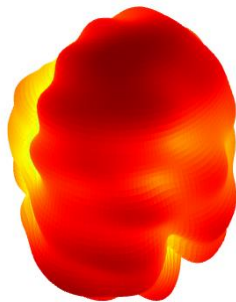
- 5925 MHz



- 6525 MHz



- 7125 MHz





NFC Antenna

FPCB Dimensions

