

Antenna Test Report

Issue date: 2023/11/02

Documented by: Qian Si

EQUIPMENT : **ANT**

BRAND NAME : WELLETRONICS COMMUNICATION TECHNOLOGY
CO. , LTD

MODEL NAME : P325A-MAIN-WTT
P325A-SHY-WTT

ANTENNA TYPE : PIFA

MANUFACTURE : WELLETRONICS COMMUNICATION TECHNOLOGY
CO. , LTD
F1-3, BUILDING 8, TONGFU LNDUSTRIA PARK, DALANG
LONGHUA SHENZHEN DISTRICT

Test site : **Tinno Shenzhen RD team Lab with GTS2800
chamber**

Test environment : **General test GTS 2800**

Test instrument : **5071C**

Test equipment software **GTS MaxSign-Libra**

**List of calibrated test
equipment** **GTS2800 with calibrated date: 2022/12/26**

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Antenna Report

1. Antenna Placement

ANT Number	Frequency	Other information
ANT0	700MHz-2690MHz	TRX: LB+MB+HB
ANT3	700MHz-2690MHz	DRX: LB+MB+HB
ANT4	1575MHz	GPS
ANT5	2400MHz-2500MHz	2. 4G WIFI+5G WIFI

2. TX Antenna Peak Gain

Test / Position	Free Space					
	bands	Frequency	TX Antenna Peak Gain			
			Ant 0	Ant 1	Ant 2	Ant 3
GSM 850	824.2-848.8MHz	-4				
GSM 900	880.2 - 914.8MHz	-3.8				
DCS 1800	1710.2-1784.8MHz	-2.5				
PCS 1900	1850.2-1909.8MHz	-2.6				
WCDMA Band 1	1922.6-1977.4MHz	-3.2				
WCDMA Band 2	1747.4 - 1782.4MHz	-2.6				
WCDMA Band 4	1710-1755MHz	-2.9				
WCDMA Band 5	824-849MHz	-4				
WCDMA Band 8	902.6 - 912.4MHz	-3.8				
LTE Band 1	1920-1980MHz	-3.2				
LTE Band 2	1810-1910MHz	-2.6				
LTE Band 3	1712.5-1782.5MHz	-2.5				
LTE Band 4	1710-1755MHz	-2.9				
LTE Band 5	824-849MHz	-4				
LTE Band 7	2500-2570MHz	-2.8				
LTE Band 8	902.5-912.5MHz	-3.8				
LTE Band 13	779.5-784.5MHz	-3.7				
LTE Band 26	814-849MHz	-4				
LTE Band 28	720.5-745.5MHz	-3.9				

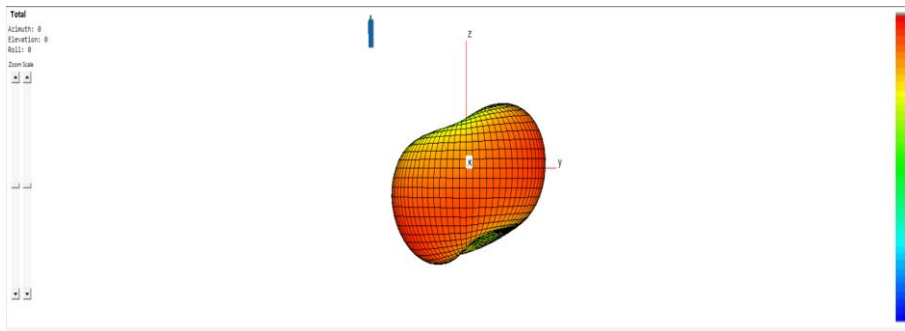
Antenna Report

LTE Band 38	2570-2620MHz	-2.8			
LTE Band 40	2300-2400MHz	-3			
LTE Band 66	1710-1780MHz	-2.9			

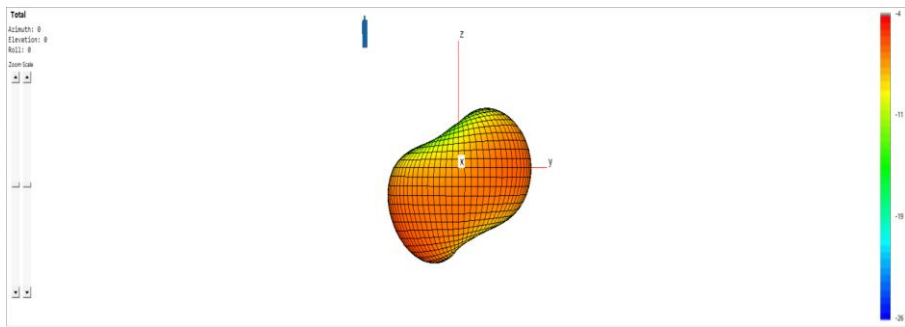
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Test / Position	Free Space			
bands	Frequency	TX Antenna Peak Gain		
		Ant 5		
WiFi 2.4G/BT	2400-2483.5MHz	-4.5		
WiFi 5G UNII-1	5150-5250MHz	-4.5		
WiFi 5G UNII-2A	5250-5350MHz	-4.5		
WiFi 5G UNII-2C	5470-5725MHz	-4.5		
WiFi 5G UNII-3	5725-5850MHz	-5		

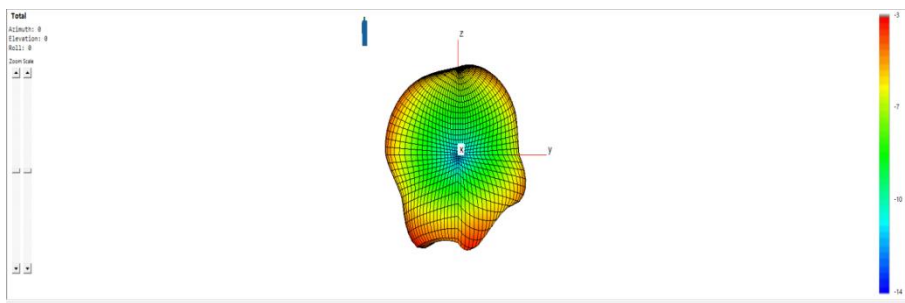
3. Gain Plots



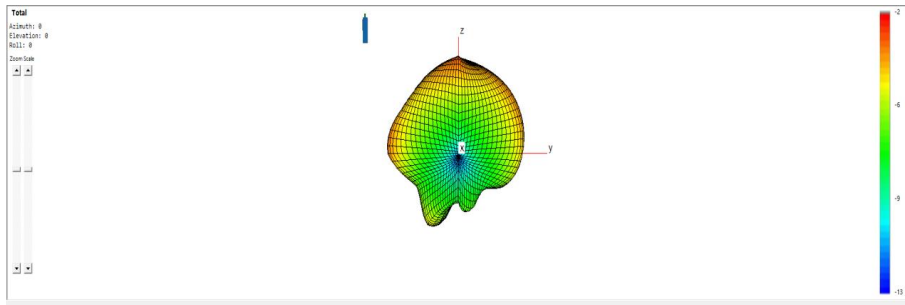
GSM 850



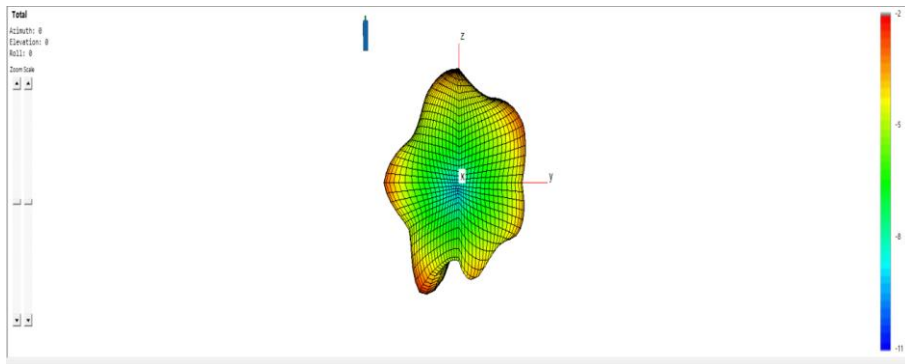
GSM900



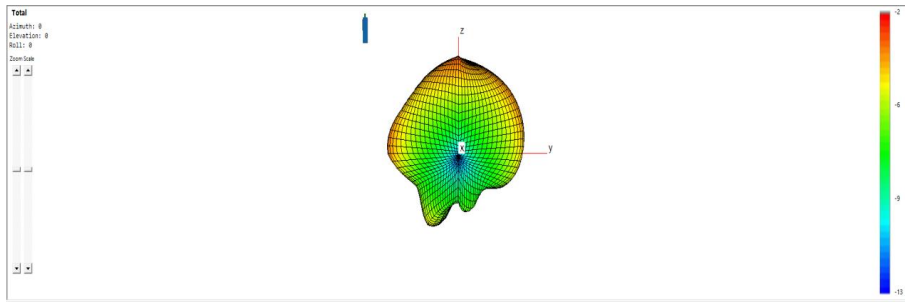
DCS 1800



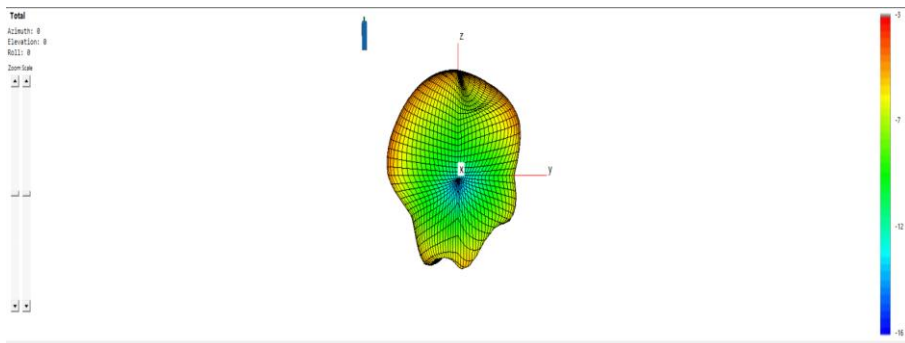
PCS 1900



WCDMA Band I

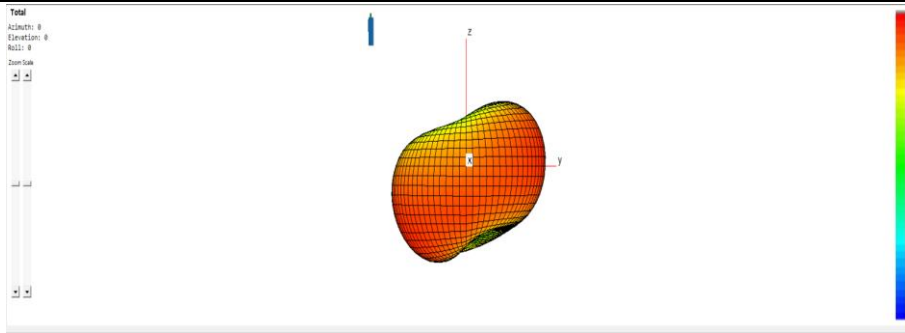


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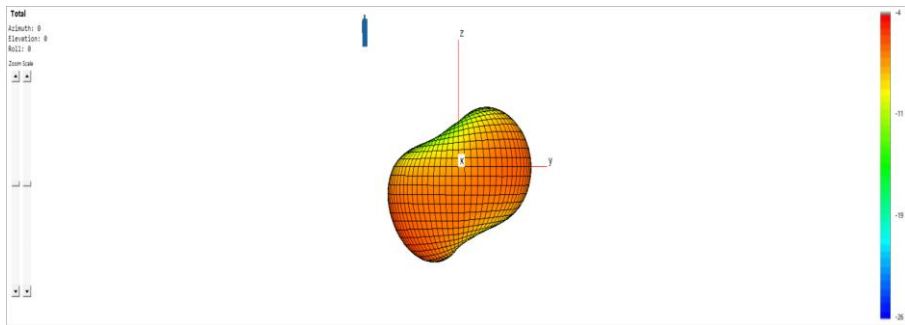


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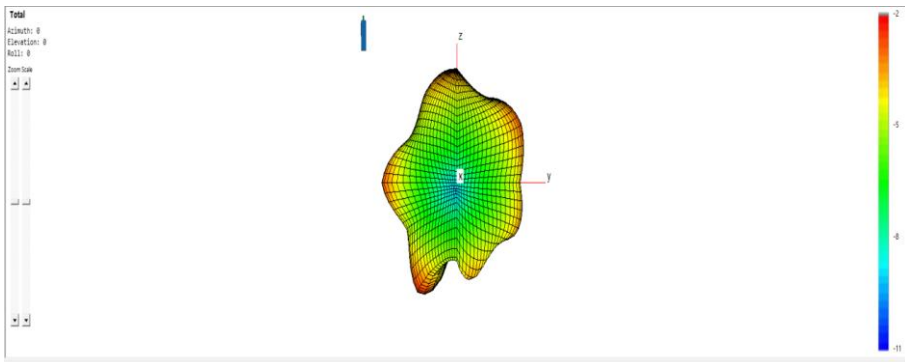
Antenna Report



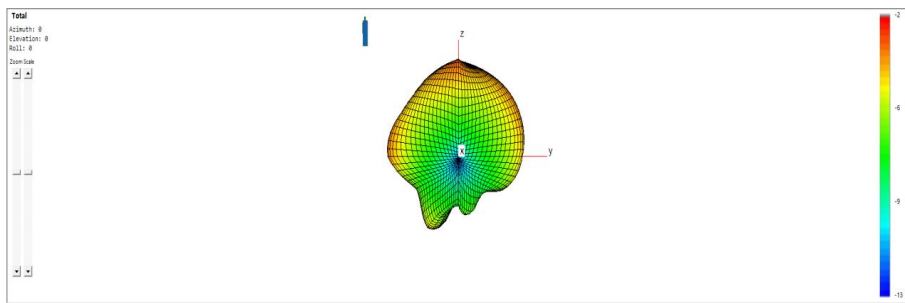
WCDMA Band 5



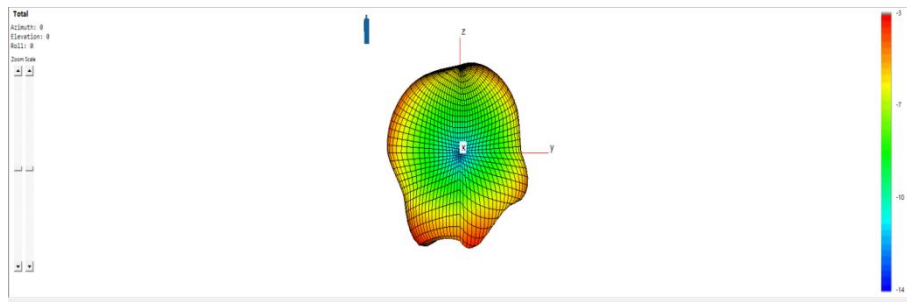
WCDMA Band 8



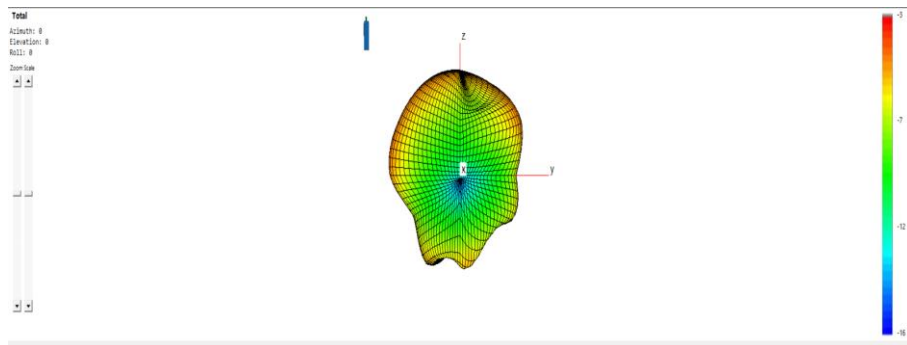
LTE Band 1



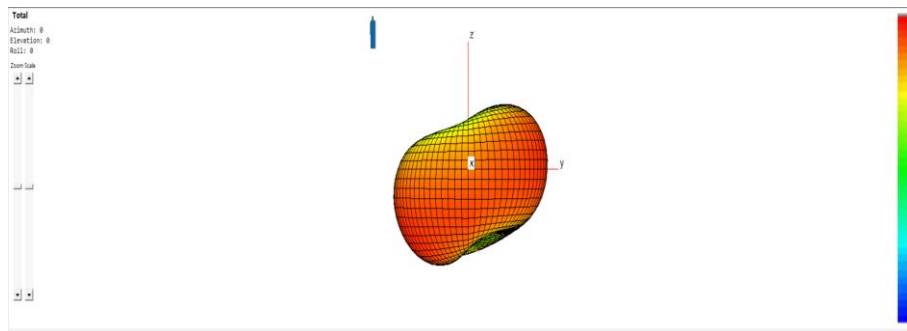
LTE Band 2



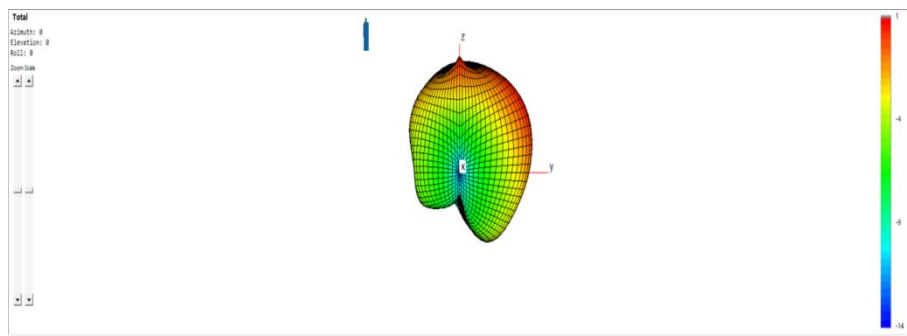
LTE Band 3



LTE Band 4

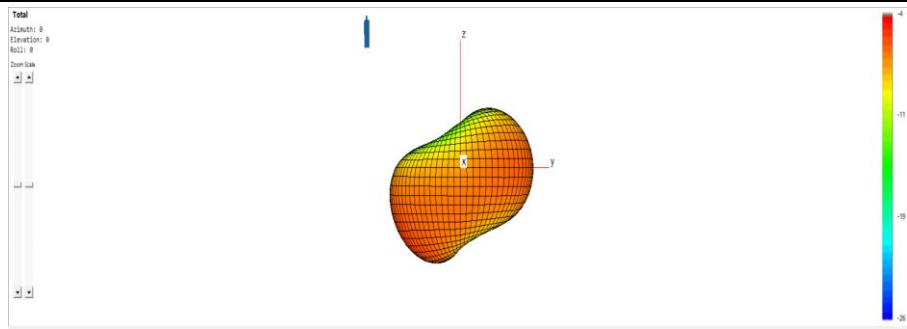


LTE Band 5

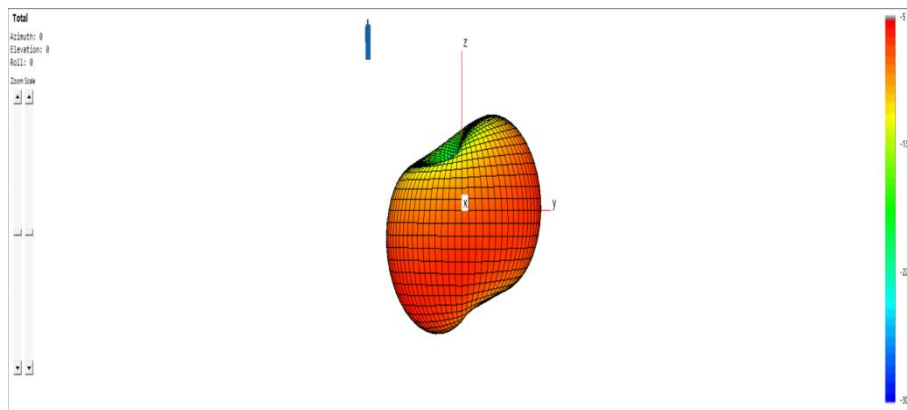


LTE BAND 7

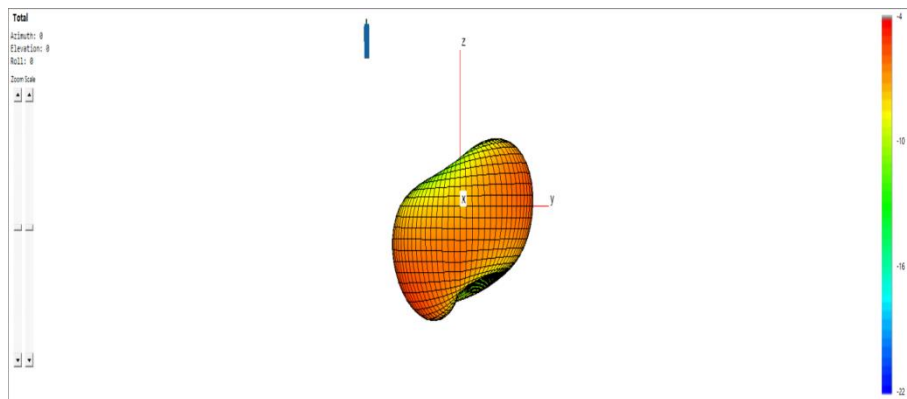
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LTE BAND 8

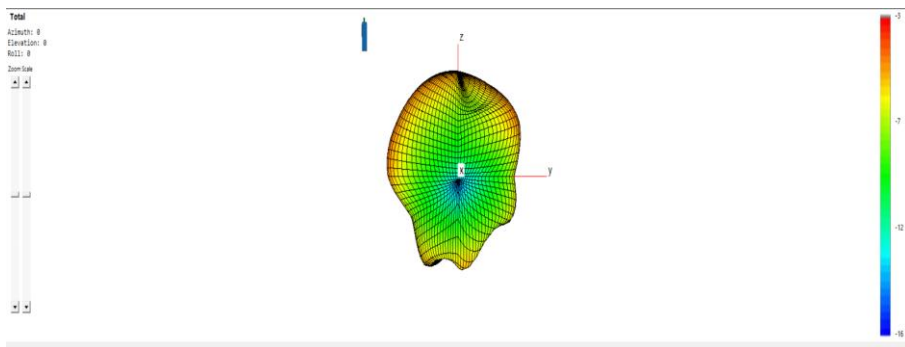
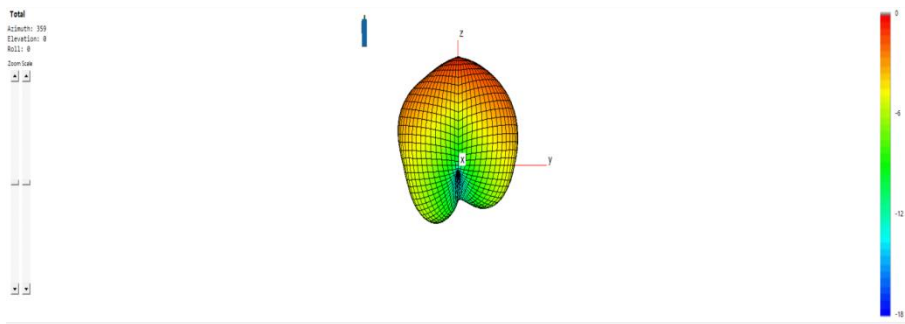
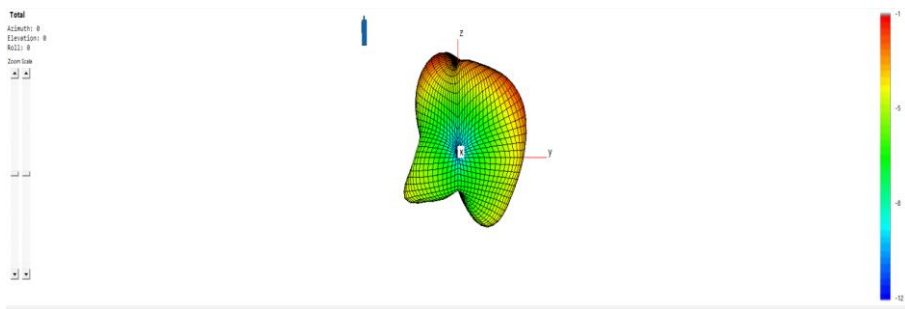
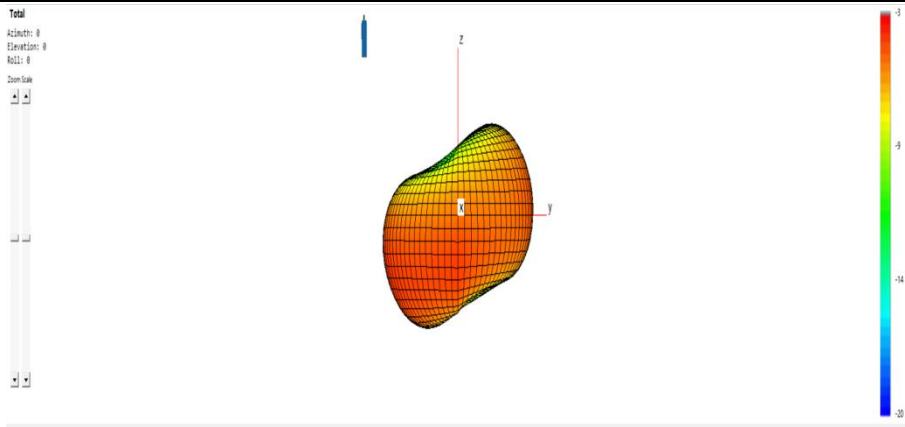


LTE BAND 13

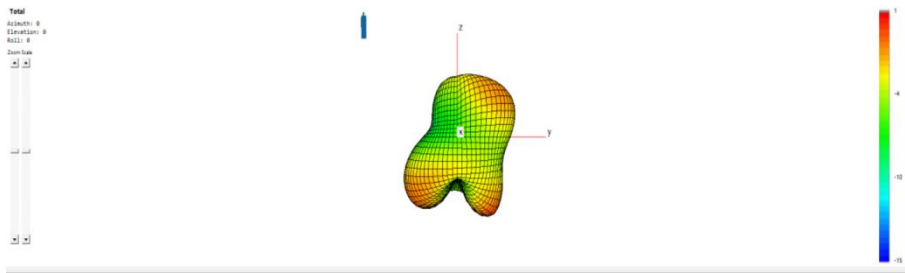


LTE BAND 26

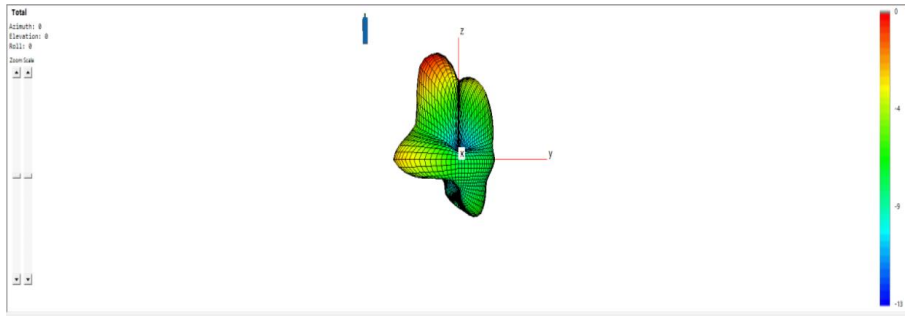
Antenna Report



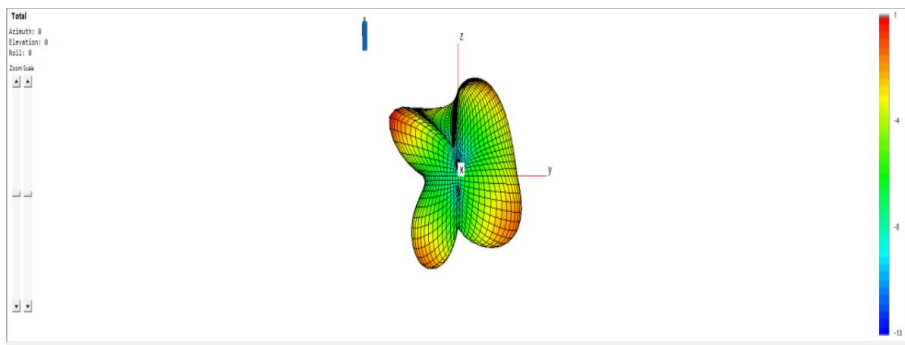
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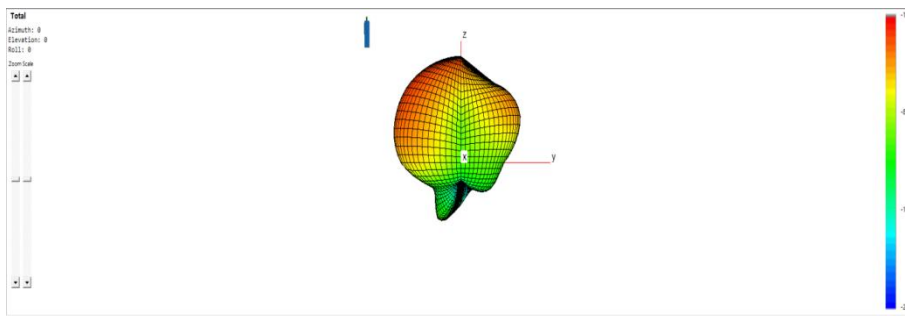
2.4G WiFi



5G WIFI band 1

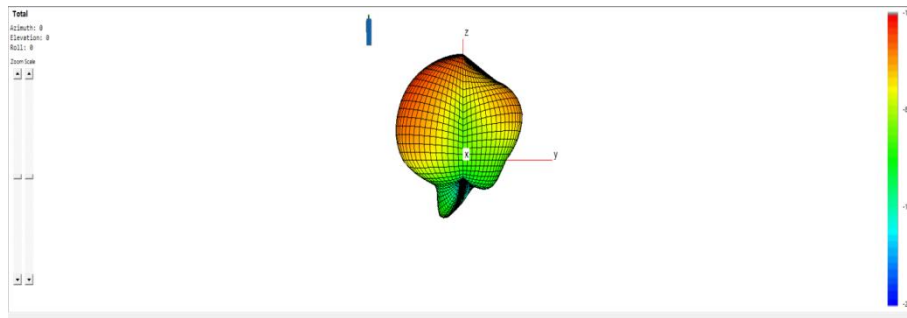


5G WIFI band 2



5G WIFI band 3

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5G WIFI band 4