

M8 Antenna Test Report

Customer	Leading Innovation
Project	M8
Antenna BAND	BT
Product Description	NY-3216-M02
Product No	V1.0

This report is to measure the performance of BT antenna for B02. The antenna operating frequency at (2400–2500MHZ) , All test data are showed as below.

Content

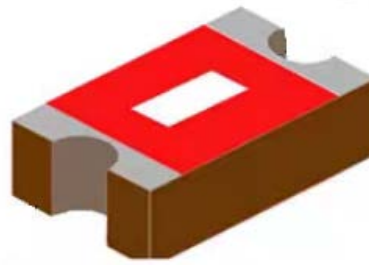
1. Product Overview & Dimension
2. Test system
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4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Gain & Efficiency
 - 4.3 Test coordinate
 - 4.4 2D Pattern
 - 4.5 OTA Data
 - 4.6 BT Boot measured
5. Antenna Assembly & environmental processing

2. Test System

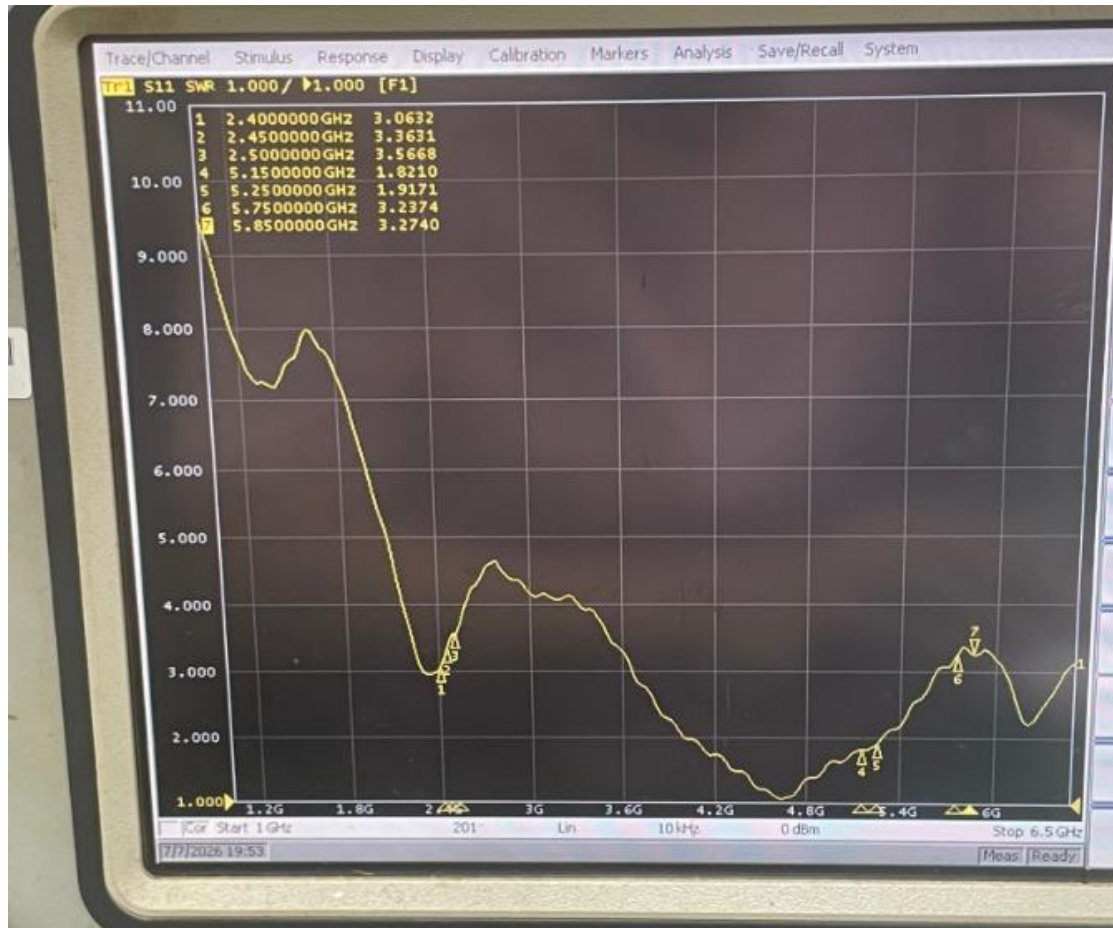
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & HP 8753
OTA Test	TRP&TIS	CMW500 & CMW270 ETS& FT SG24
Gain & Efficiency	Gain & Efficiency	ETS&FT SG24 Agilent 5071C



Prototype image



S11

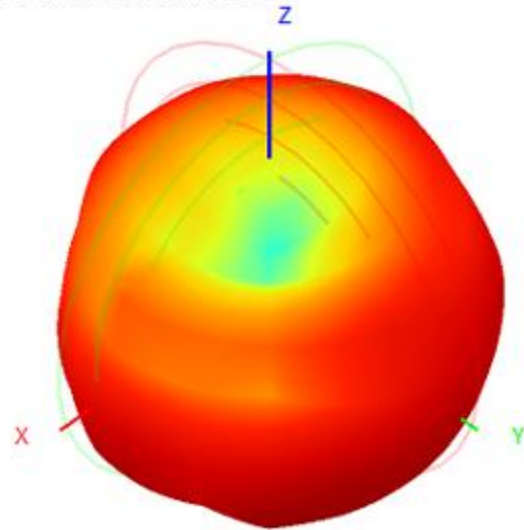


VSWR

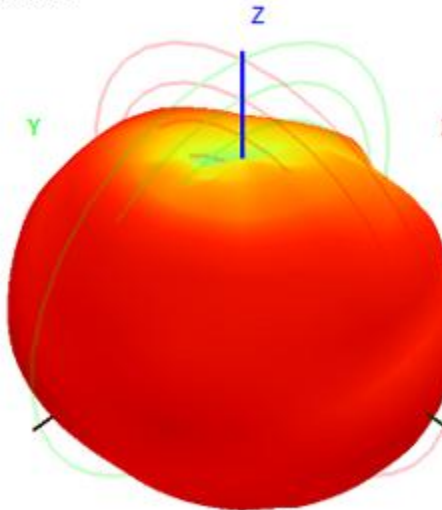
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-4.17	-4.71	-4.12	-4.58	-4.01	-4.12	-3.28	-3.16	-3.03	-3.86	-3.94
Efficiency (%)	14.81	13.59	16.47	14.46	16.10	15.67	17.51	16.93	17.22	14.30	14.01

5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
-2.03	-1.77	-1.52	-1.89	-2.29	-1.91	-2.10	-2.43	-2.35	-2.26	-2.86	-2.86	-2.17	-3.57	-2.64
21.32	20.97	21.78	21.56	19.96	20.61	20.31	18.55	18.96	19.01	15.52	15.56	18.57	13.27	12.68

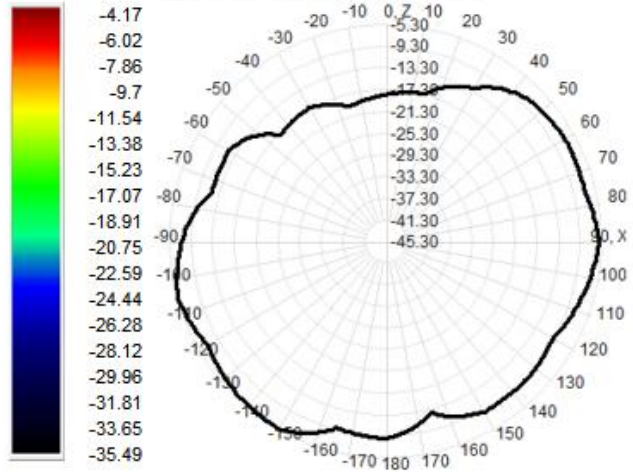
2400.0MHz Total, Eff: 14.8%



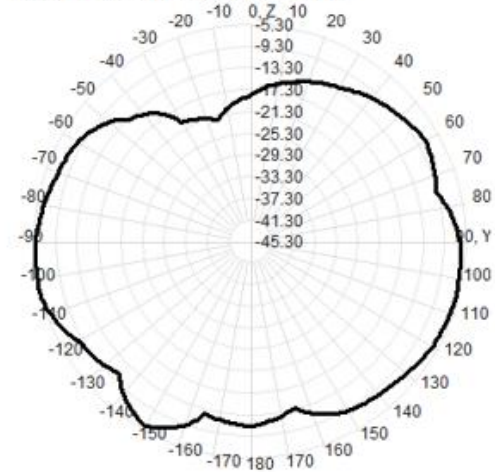
Back View



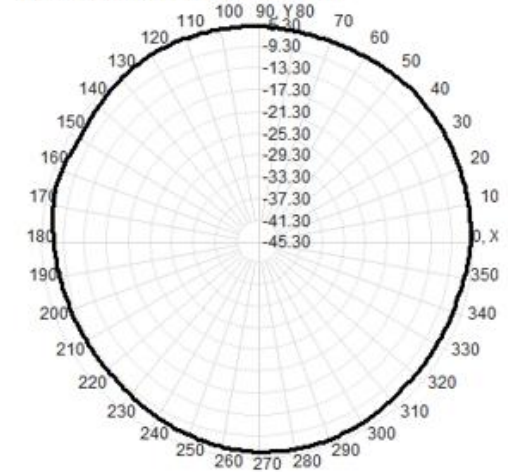
2400.0MHz Total(E1-XZ), Max= -5.54dBi



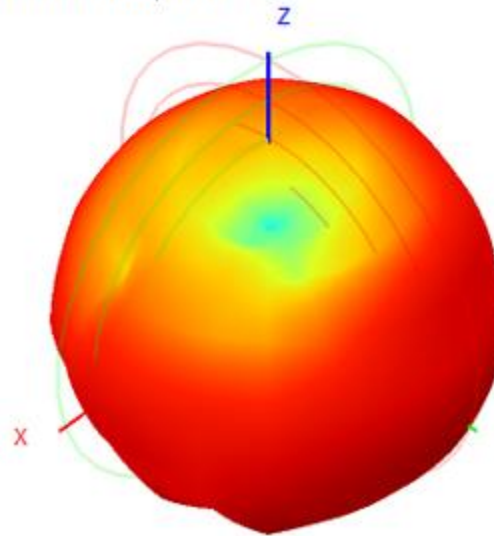
2400.0MHz Total(E2-YZ), Max= -5.30dBi



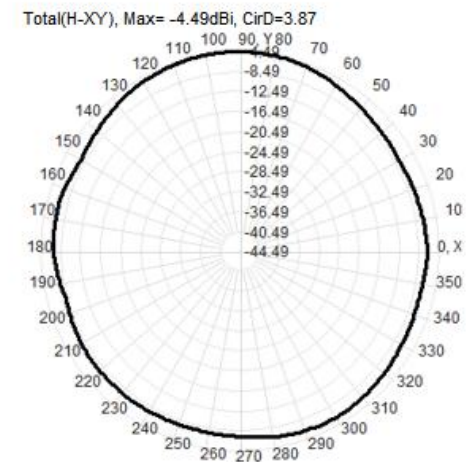
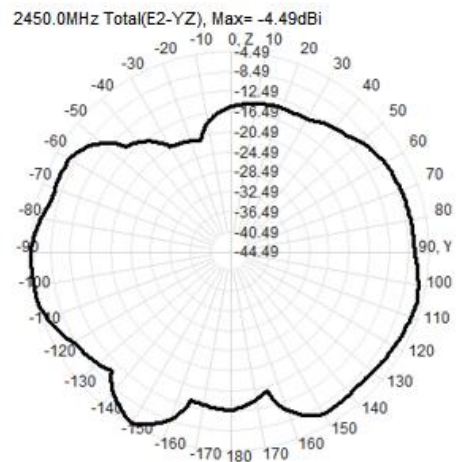
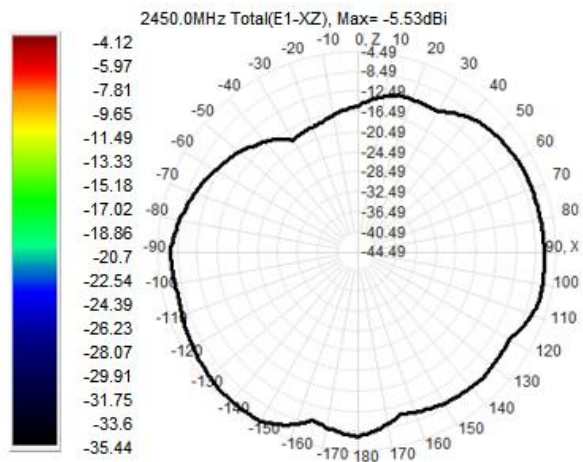
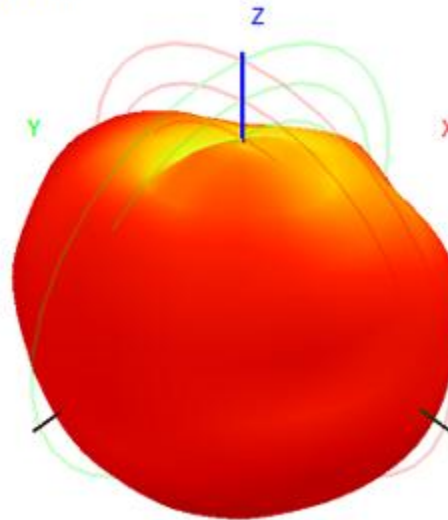
Total(H-XY), Max= -5.45dBi, CirD=3.47



2450.0MHz Total, Eff: 15.7%

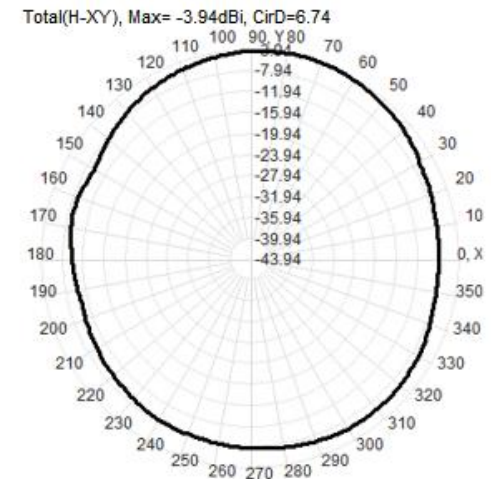
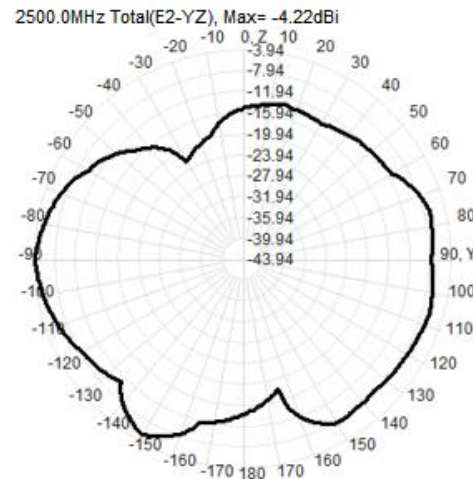
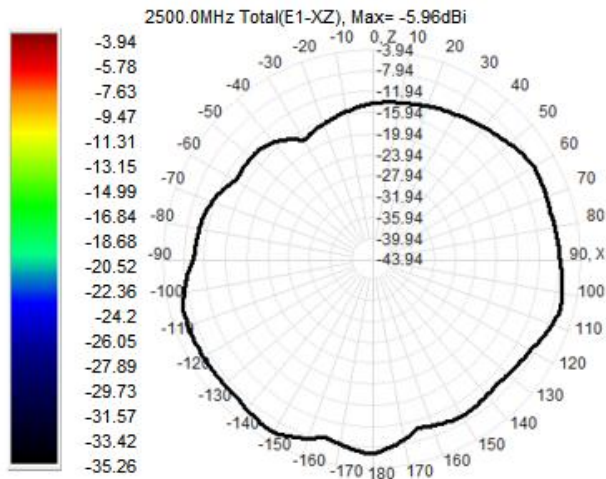
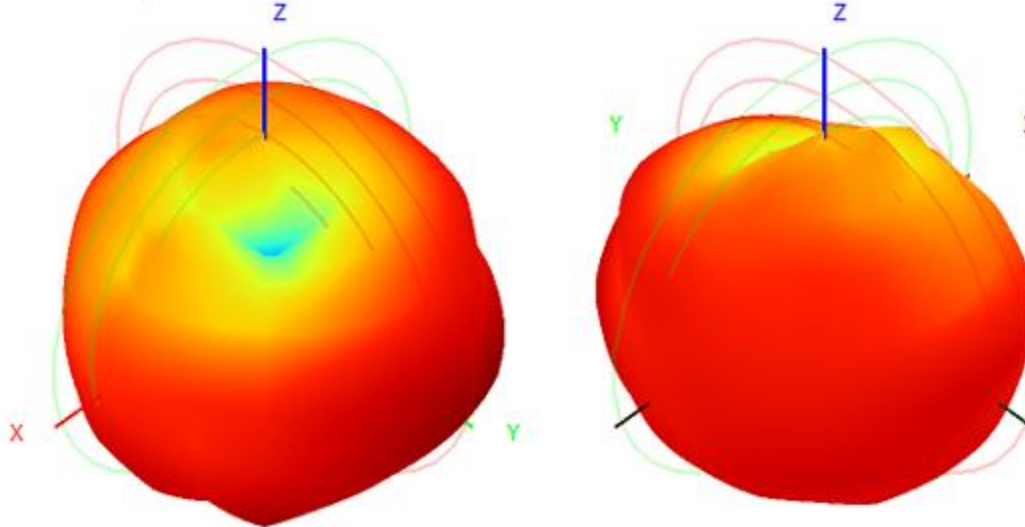


Back View



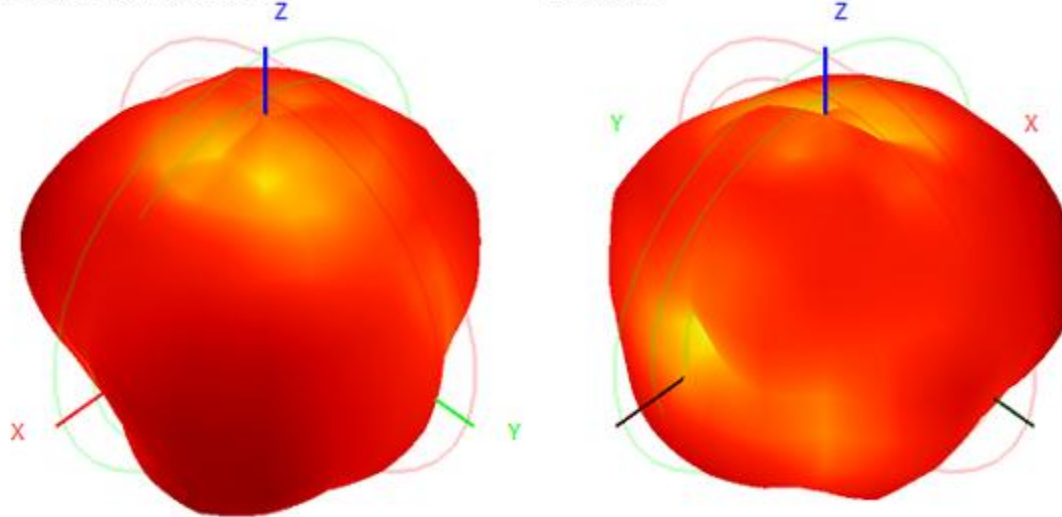
2500.0MHz Total, Eff: 14.0%

Back View



5150.0MHz Total, Eff: 21.3%

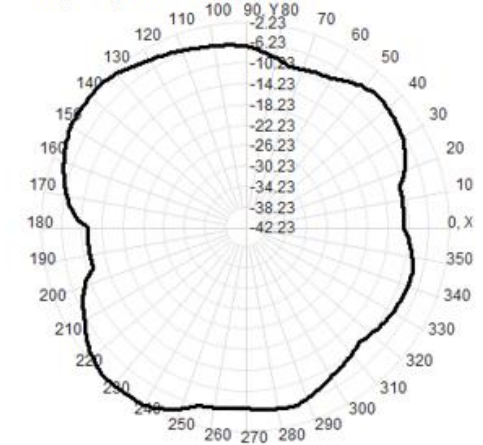
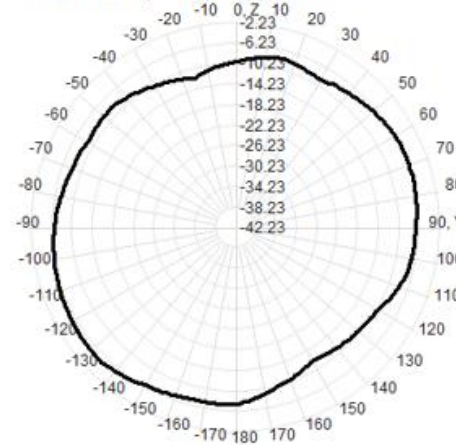
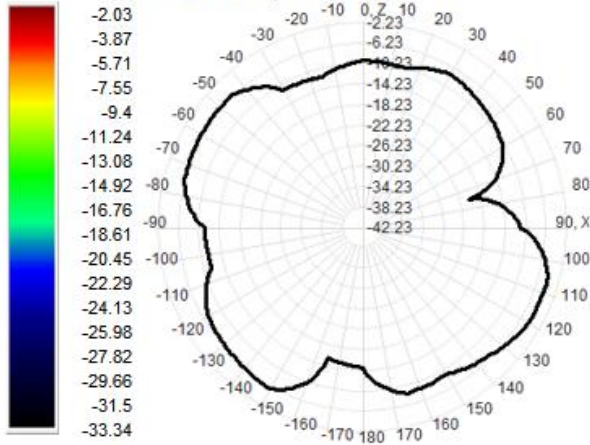
Back View



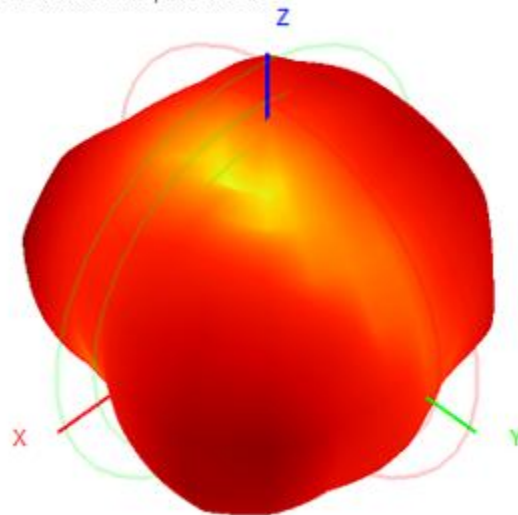
5150.0MHz Total(E1-XZ), Max=-4.82dBi

5150.0MHz Total(E2-YZ), Max=-5.23dBi

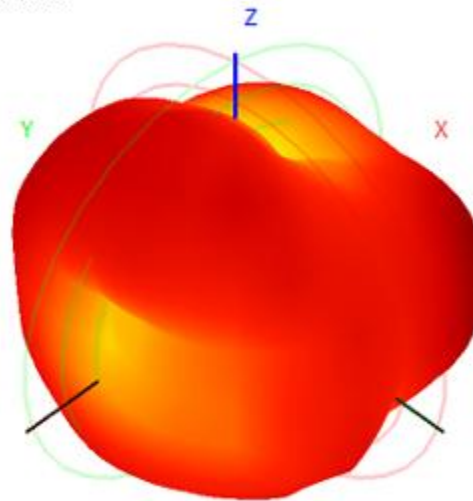
Total(H-XY), Max=-2.23dBi, CirD=9.21



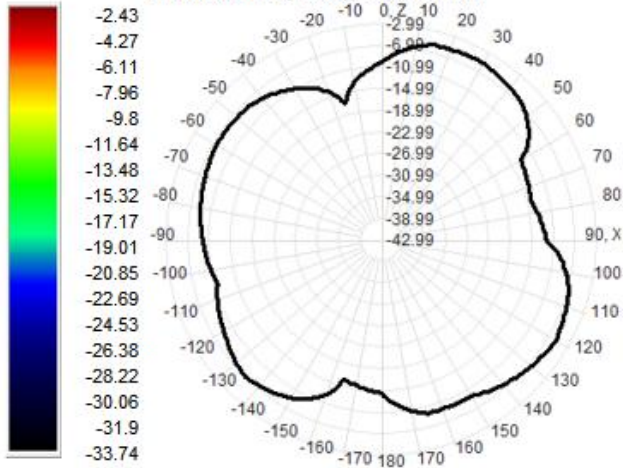
5500.0MHz Total, Eff: 18.6%



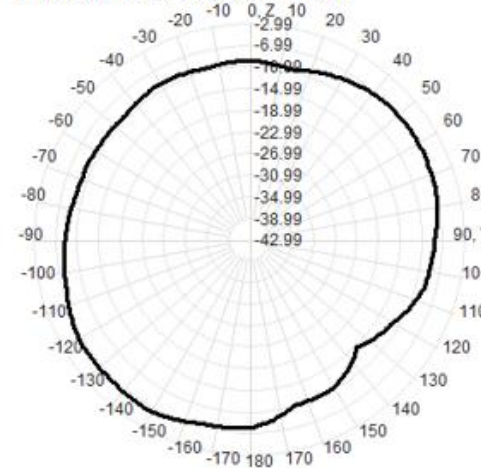
Back View



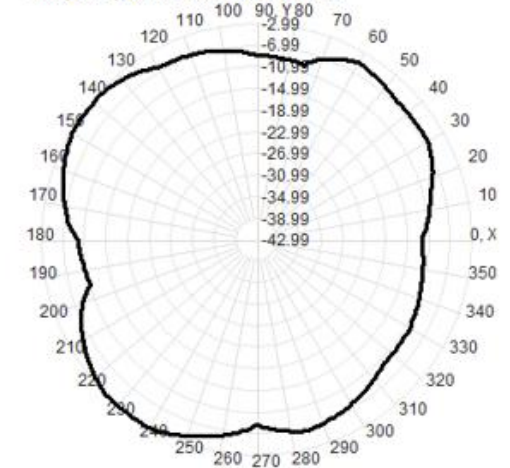
5500.0MHz Total(E1-XZ), Max= -5.29dBi



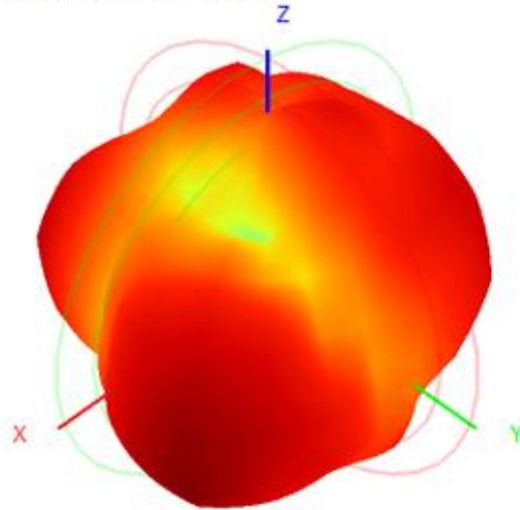
5500.0MHz Total(E2-YZ), Max= -6.42dBi



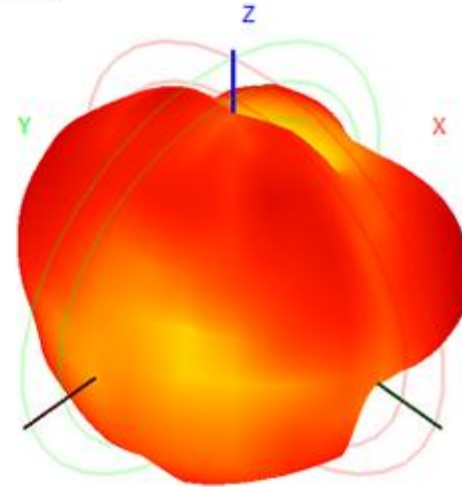
Total(H-XY), Max= -2.99dBi, CirD=9.56



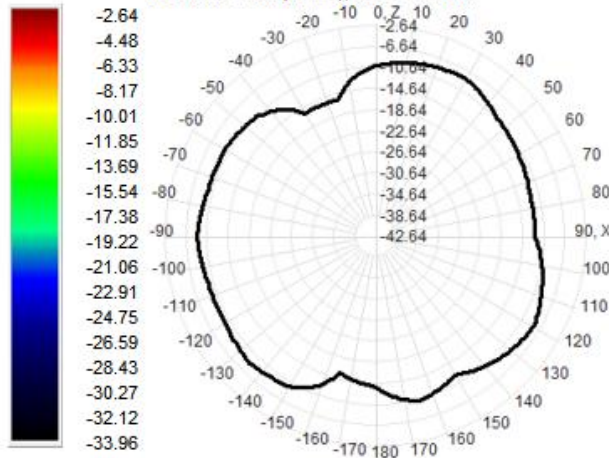
5850.0MHz Total, Eff: 12.7%



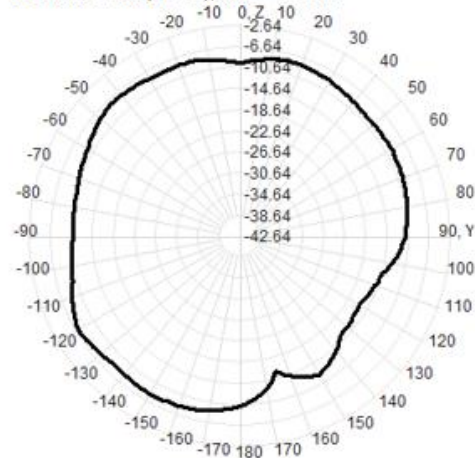
Back View



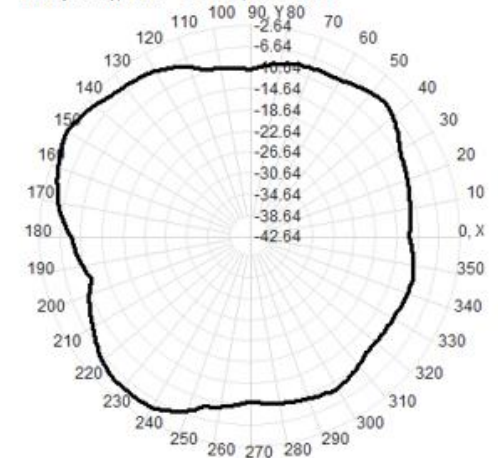
5850.0MHz Total(E1-XZ), Max= -8.22dBi



5850.0MHz Total(E2-YZ), Max= -7.33dBi



Total(H-XY), Max= -2.64dBi, CirD=9.94



Thanks for your comment!

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