

车帮手 **Antenna Test Report**

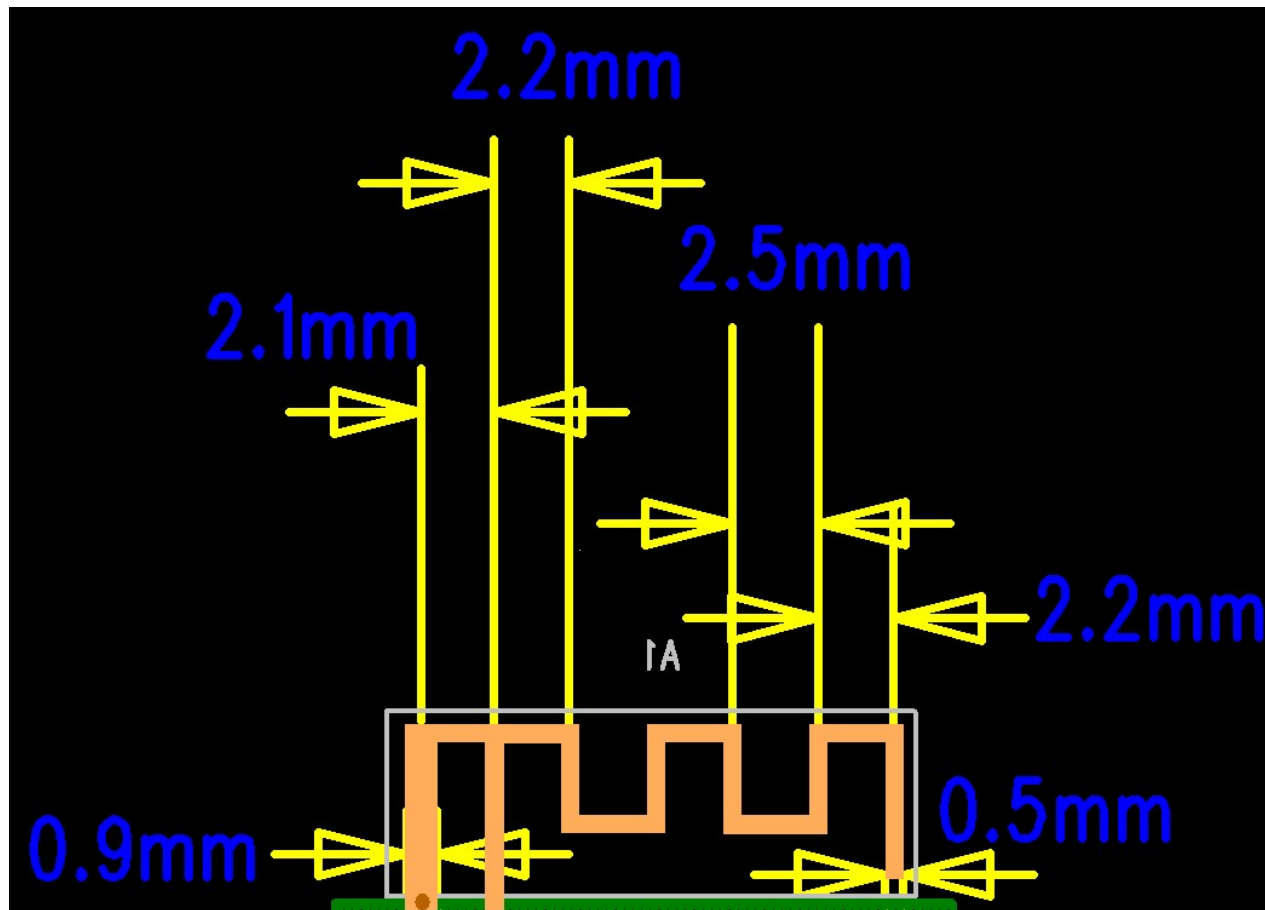
Customer	车帮手
Project	L1
Antenna Revision	A1
Product Description	板载
Product No	
DATE	2023. 12. 04

Product Overview & Dimension

Front



Antenna shape



Purpose

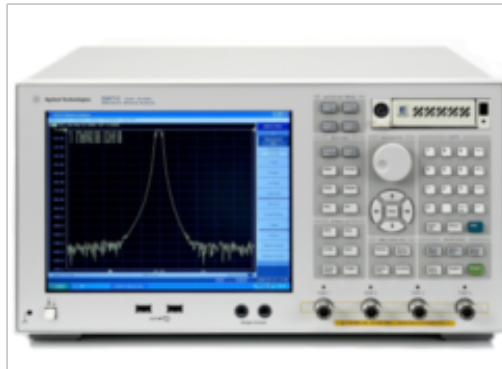
This report is to measure the performance of BT antenna for CBS01. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

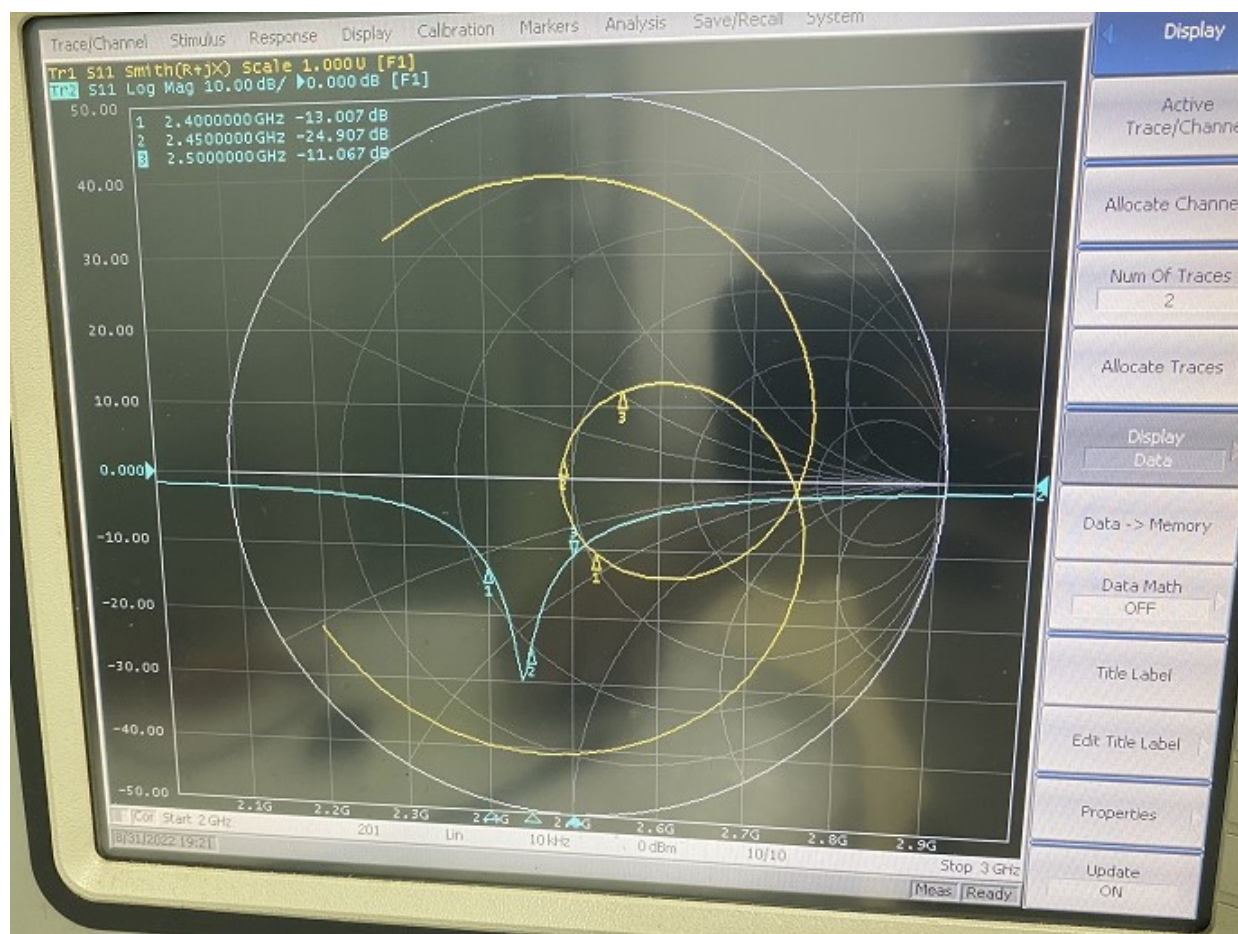
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
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 - 4.5 BT Boot measured
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2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

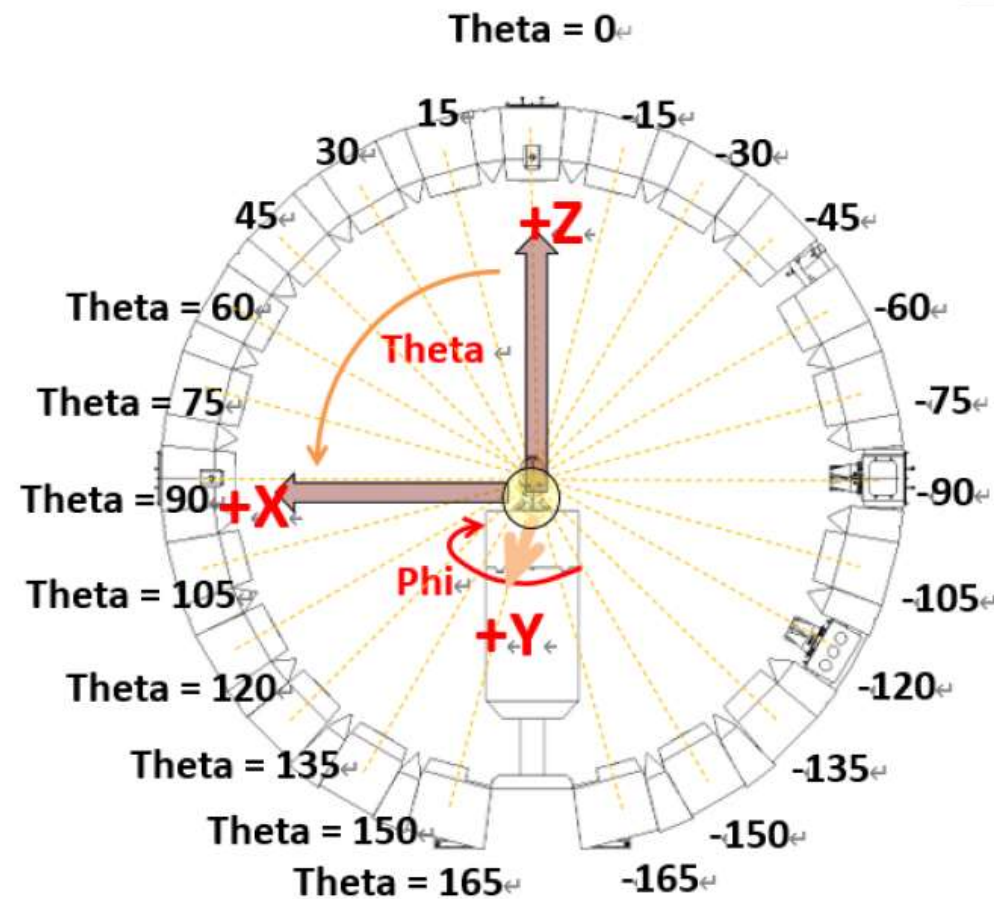


无源S11—(BT ANT)



Test Result

Sample status & coordinates



Test Result

Gain & Efficiency—**BT- ANT**

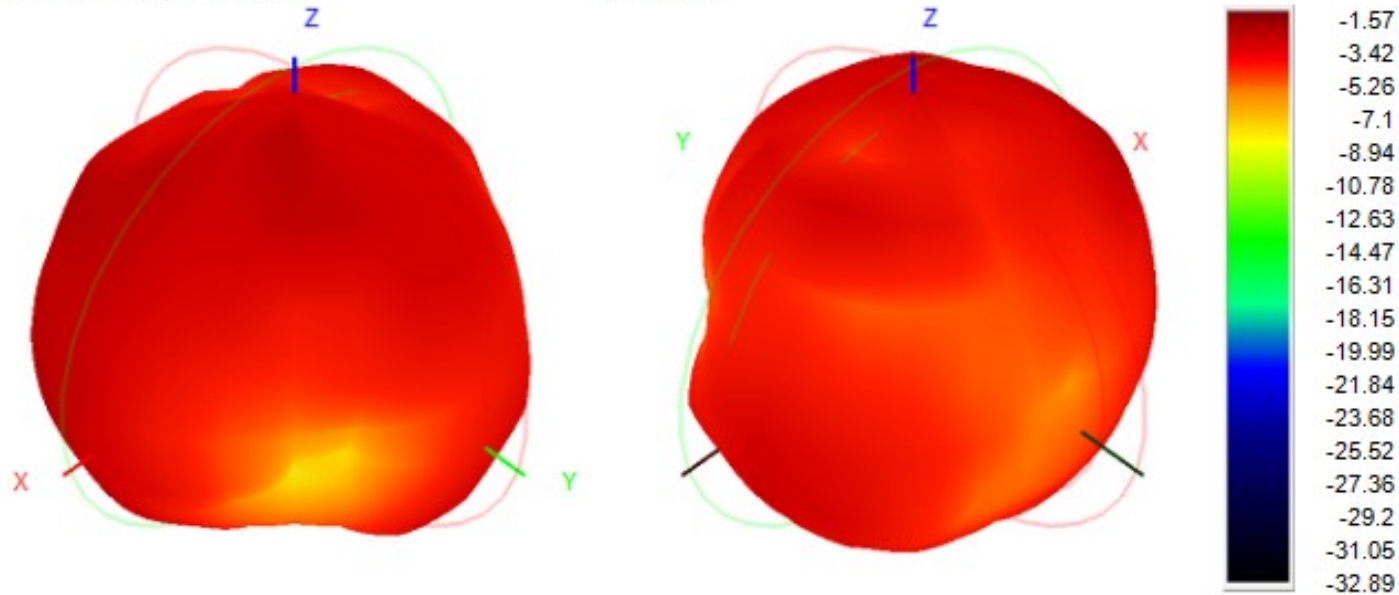
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	25.25	-1.57
2410	26.57	-1.06
2420	26.52	-1.09
2430	29.04	-0.67
2440	29.29	-0.66
2450	29.57	-0.57
2460	29.96	-0.42
2470	30.62	-0.63
2480	29.30	-0.83
2490	28.31	-0.83
2500	28.01	-0.64

Test Result

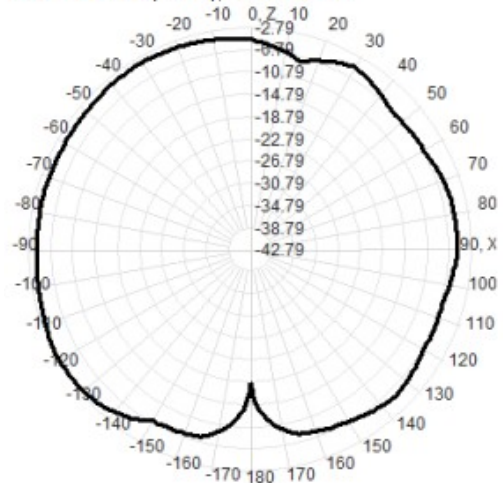
2D&3D — BT- ANT

2400.0MHz H+V, Eff: 25.2%

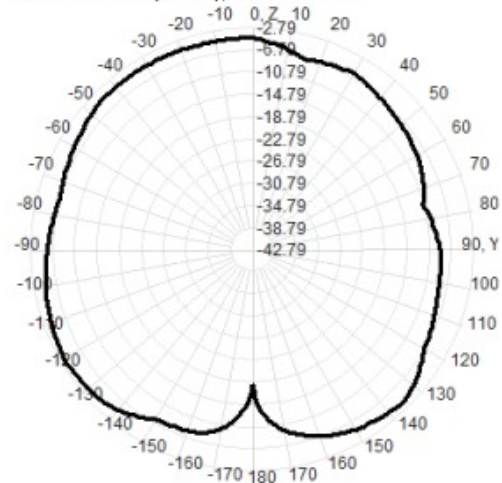
Back View



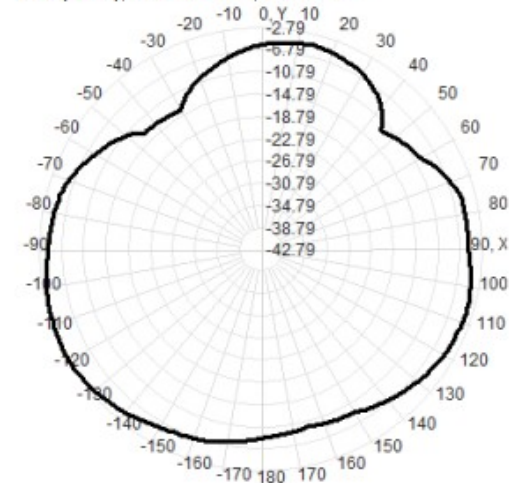
2400.0MHz Total(E1-XZ), Max= -3.02dBi



2400.0MHz Total(E2-YZ), Max= -3.68dBi



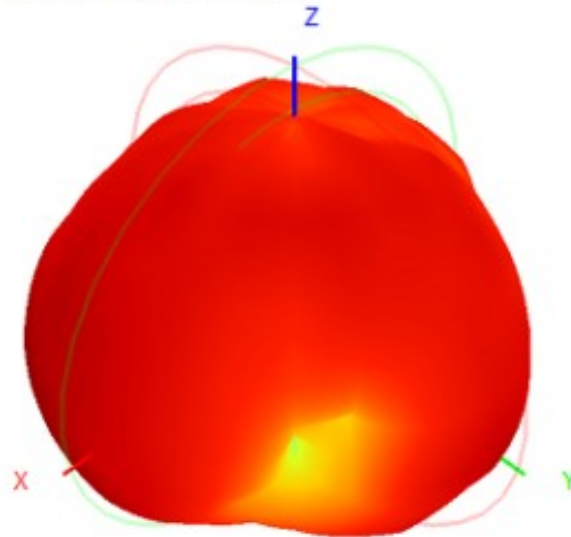
Total(H-XY), Max= -2.79dBi, CirD=11.01



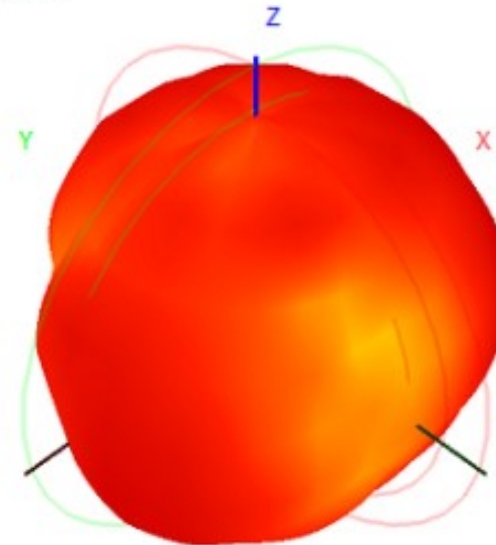
Test Result

2D&3D — BT- ANT

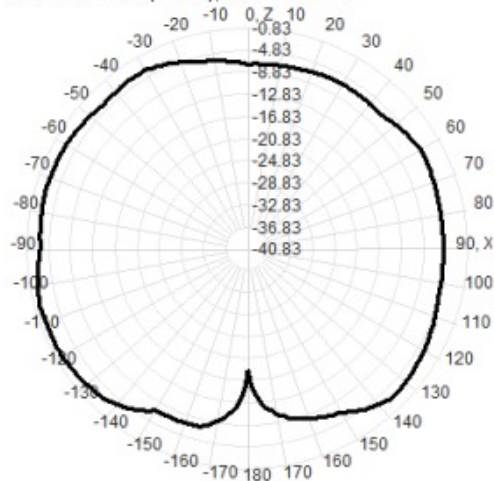
2450.0MHz H+V, Eff: 29.6%



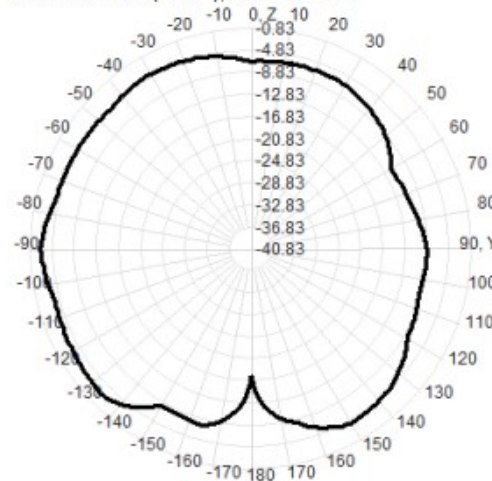
Back View



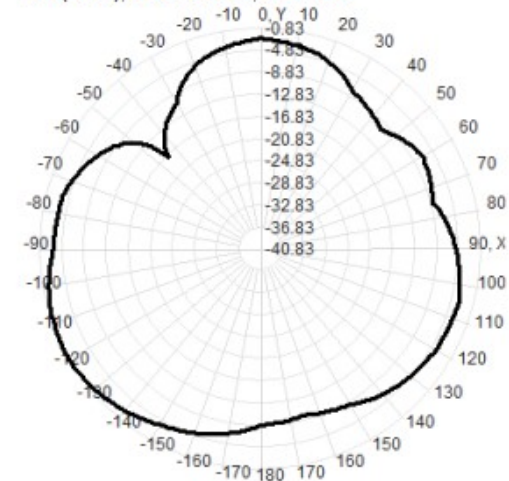
2450.0MHz Total(E1-XZ), Max= -1.95dBi



2450.0MHz Total(E2-YZ), Max= -2.74dBi



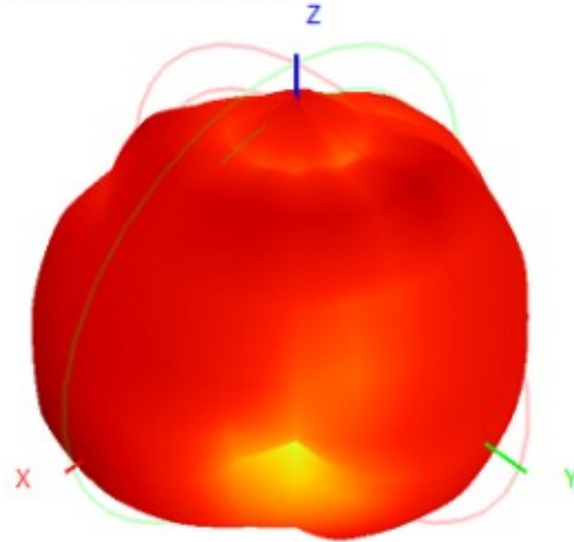
Total(H-XY), Max= -0.83dBi, CirD=16.37



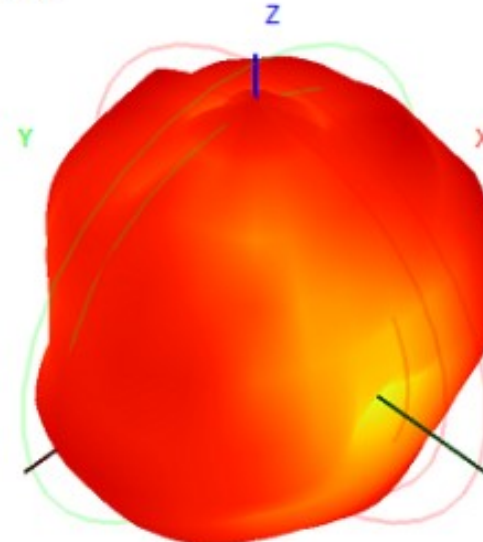
Test Result

2D&3D — BT- ANT

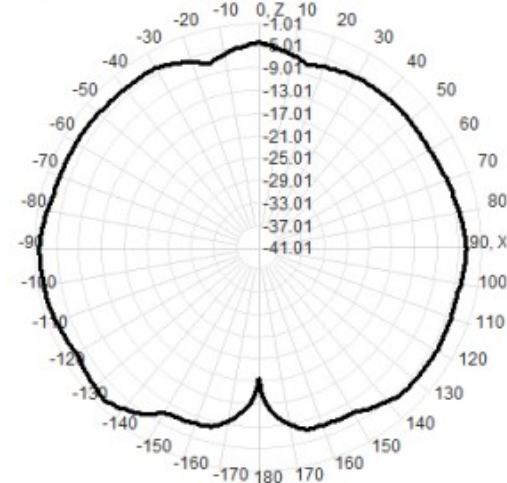
2500.0MHz H+V, Eff: 28.0%



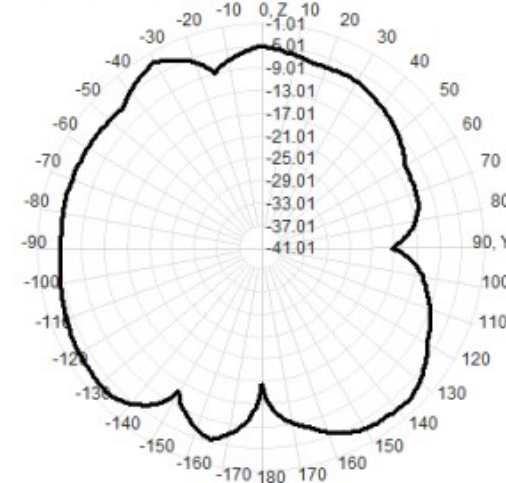
Back View



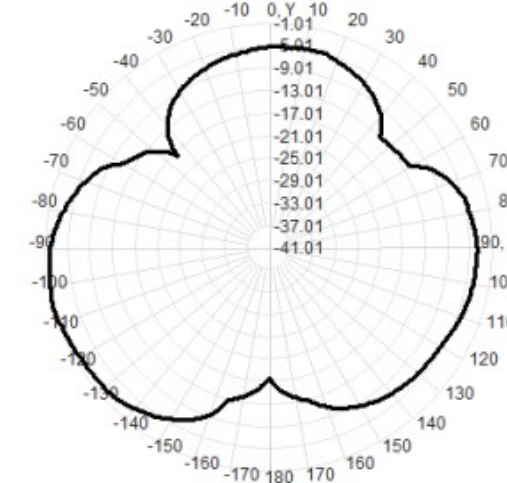
2500.0MHz Total(E1-XZ), Max=-1.90dBi



2500.0MHz Total(E2-YZ), Max=-2.85dBi

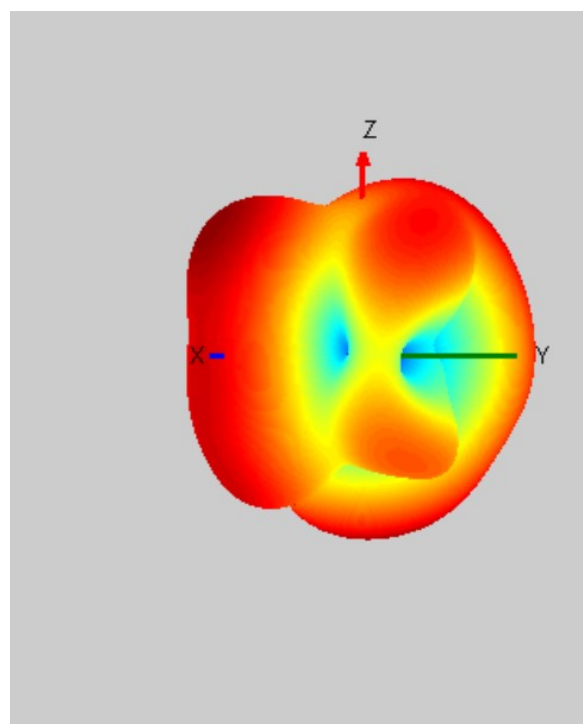


Total(H-XY), Max=-1.01dBi, CirD=16.85



OTA DATA(--自由空间

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
BT		0	-1.20	-81.76
		39	-0.83	-81.35
		78	-0.36	-81.09



Thanks for your comment!

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