2.4/5G Wifi Antenna

MODEL: TH-2458H

1. GENERAL DESCRIPTION

Model No
TH-2458H-RPSMA(M)

1.1 Electrical Properties

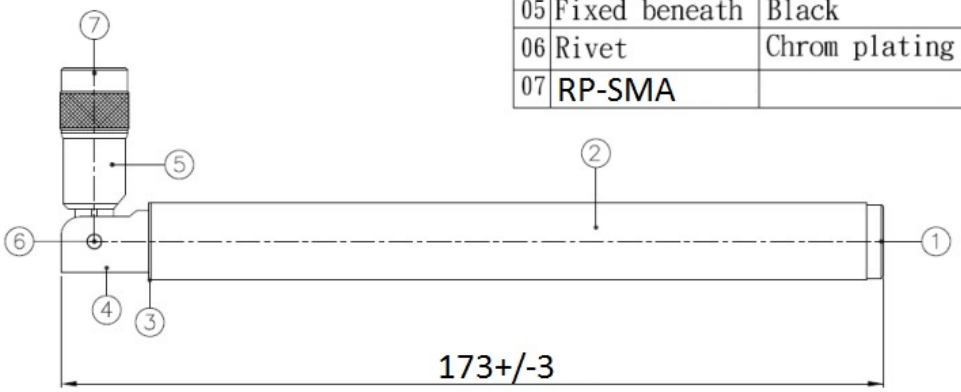
Parameter	Description
Frequency Band	2.4~2.5/5.1~5.85GHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	RP-SMA(M)
Antenna Dimensions	OD16 x 198 mm ±3
Antenna Color	Black
Operating Temperature Range	-30˚C~+70˚C
Storage Temperature Range	-30˚C~+70˚C

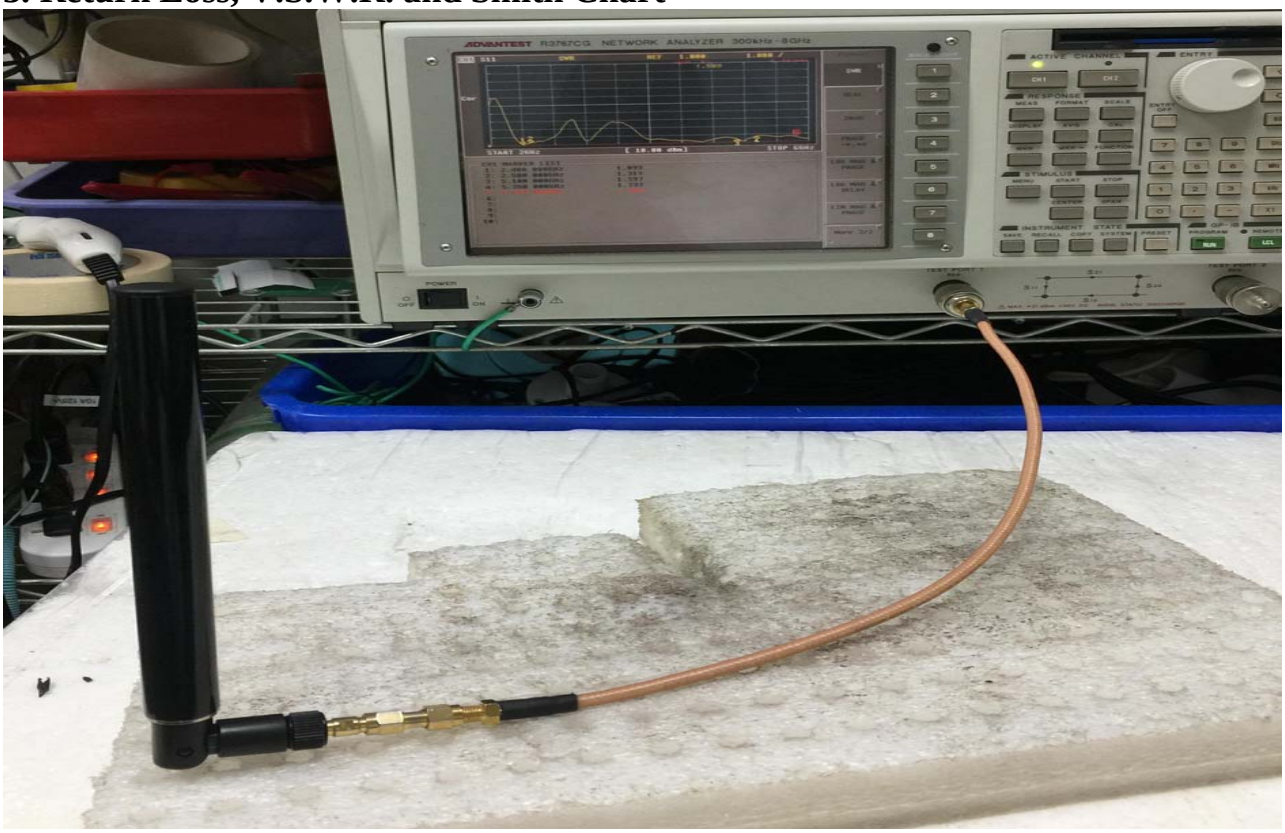
2. Appearance

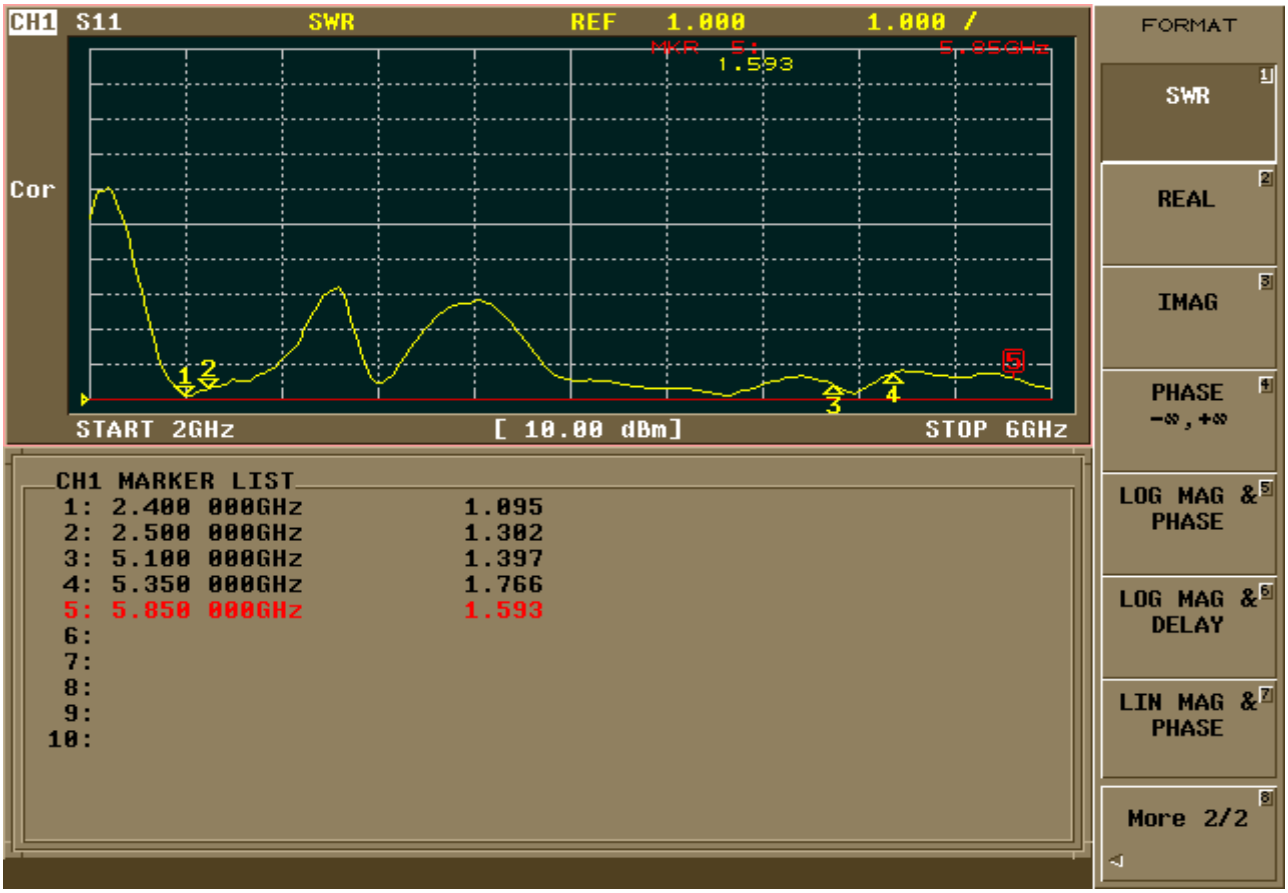
NO.	NAME	FINISH	Q, TY
01	Plug cap	Black	01
02	Tubing plastic	Black	01
03	Fixed set	Nickel plating	01
04	Fixed upper	Black	01
05	Fixed beneath	Black	01
06	Rivet	Chrom plating	02
07	RP-SMA		01

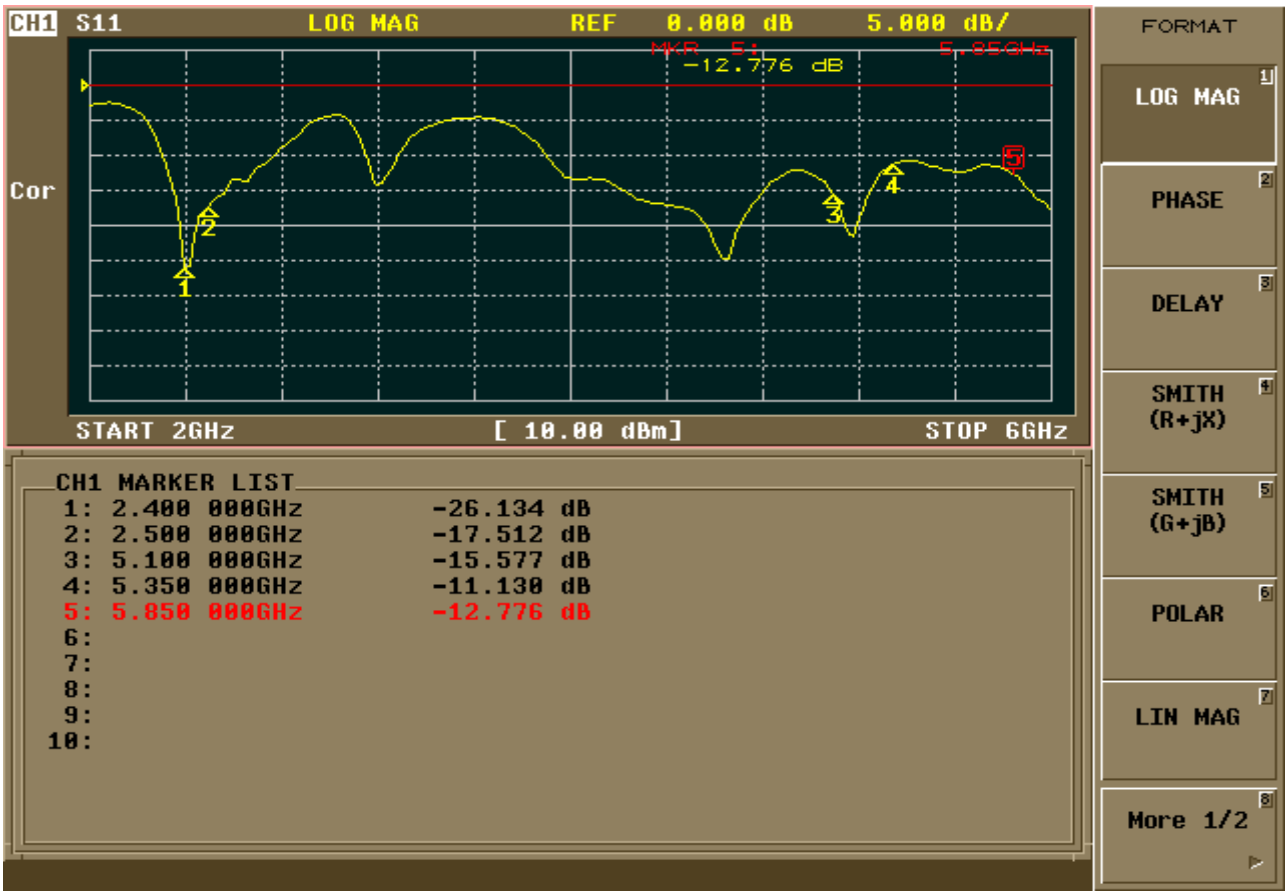


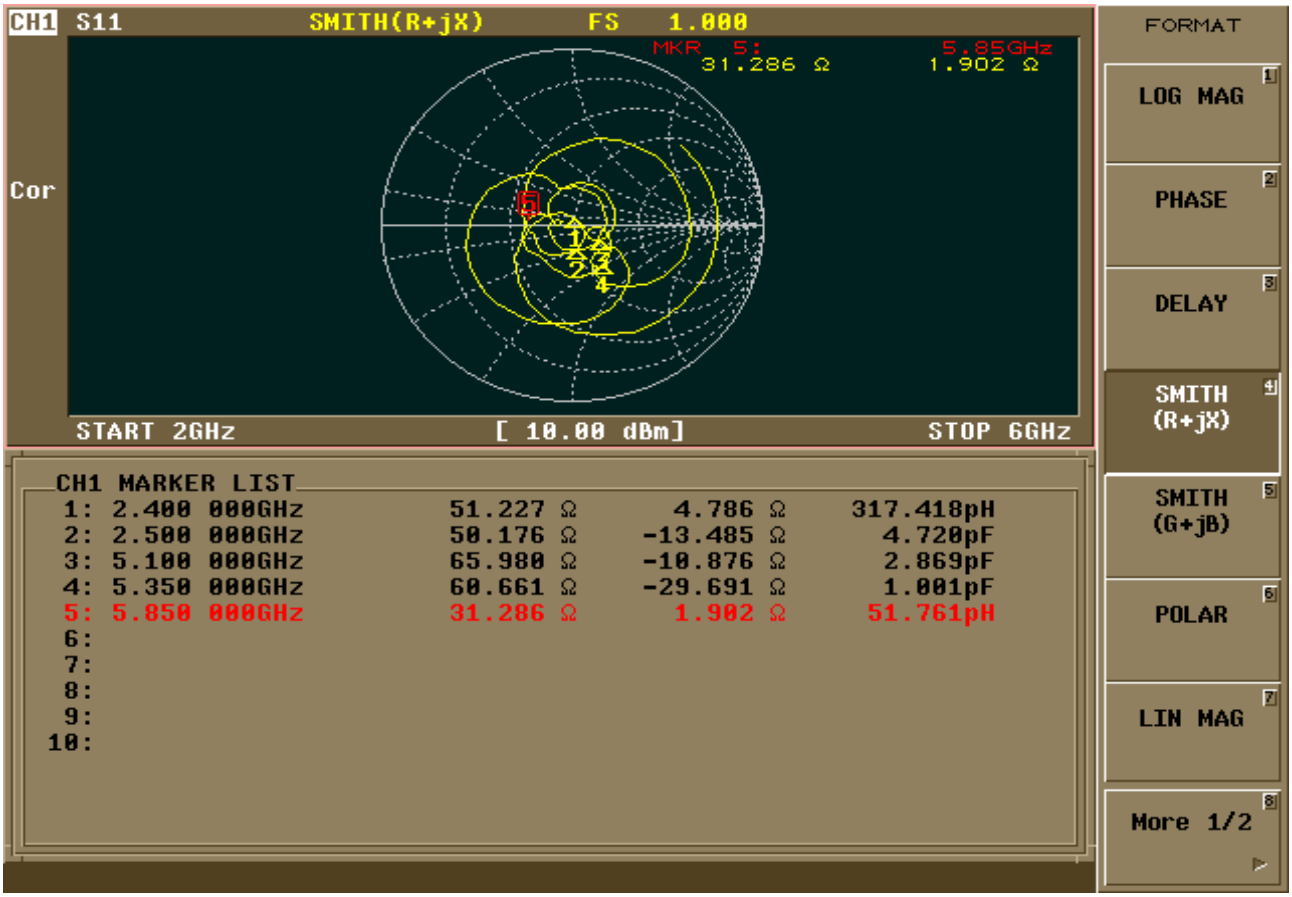
Third angle projection	CUSTOMER' S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
			TH-2458H	2.4/5G	M/M		20190125	1
	TOLERANCE	X. XX±0. 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	S	APPEARANCE					

3. Return Loss, V.S.W.R. and Smith Chart

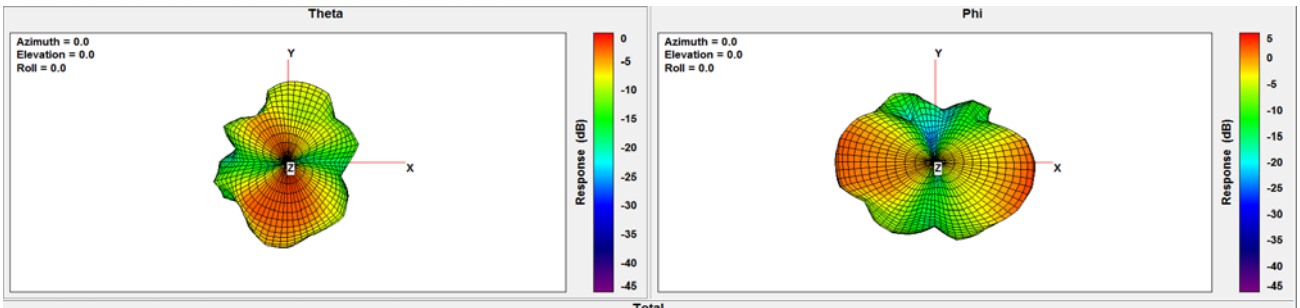



CH1 S11 SWR REF 1.000 1.000 /
MKR 5: 5.85GHz
1.593
Cor
START 2GHz [10.00 dBm] STOP 6GHz
CH1 MARKER LIST
1: 2.400 000GHz 1.095
2: 2.500 000GHz 1.302
3: 5.100 000GHz 1.397
4: 5.350 000GHz 1.766
5: 5.850 000GHz 1.593
6:
7:
8:
9:
10:
FORMAT
SWR
REAL
IMAG
PHASE -∞,+∞
LOG MAG & PHASE
LOG MAG & DELAY
LIN MAG & PHASE
More 2/2


CH1 S11 LOG MAG REF 0.000 dB 5.000 dB/
MKR 5: 5.85GHz
-12.776 dB
Cor
START 2GHz [10.00 dBm] STOP 6GHz
CH1 MARKER LIST
1: 2.400 000GHz -26.134 dB
2: 2.500 000GHz -17.512 dB
3: 5.100 000GHz -15.577 dB
4: 5.350 000GHz -11.130 dB
5: 5.850 000GHz -12.776 dB
6:
7:
8:
9:
10:
FORMAT
LOG MAG
PHASE
DELAY
SMITH (R+jX)
SMITH (G+jB)
POLAR
LIN MAG
More 1/2



Frequency (MHz)	2400	2450	2500	5150	5250	5350	5470	5600	5725	5785	5850
Peak Gain (dBi)	3.27	2.68	2.05	4.75	3.55	4.11	4.85	4.09	3.39	2.98	3.81
Efficiency (%)	42.78	42.38	42.90	42.68	42.70	44.81	44.38	49.13	52.73	50.12	49.69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Phi
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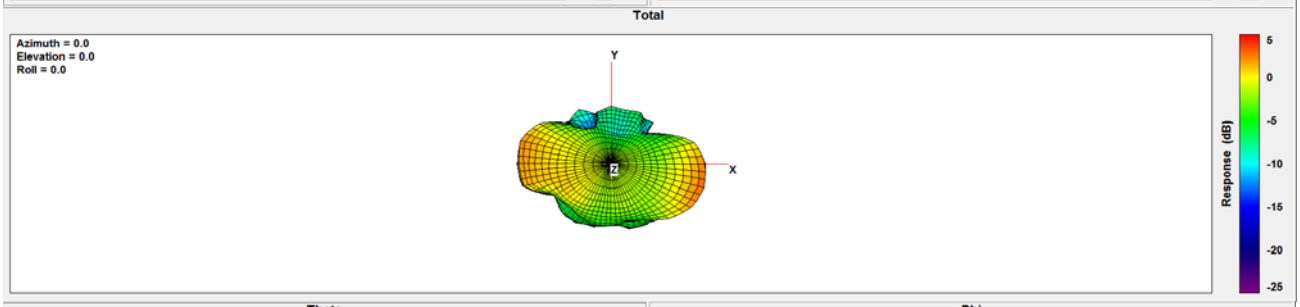
Roll = 0.0
Y
X
Z
Response (dB)
0 -5 -10 -15 -20 -25 -30 -35 -40 -45
5 0 -5 -10 -15 -20 -25 -30 -35 -40 -45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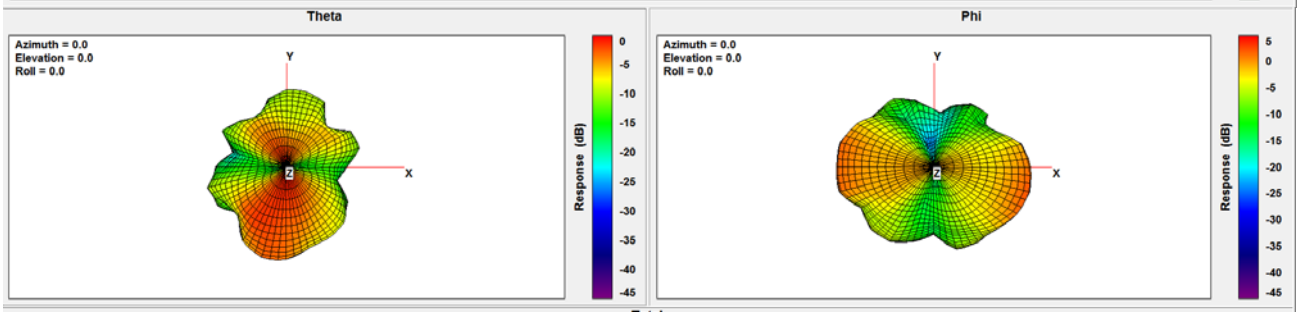
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Response (dB)
0 -5 -10 -15 -20 -25 -30 -35 -40 -45
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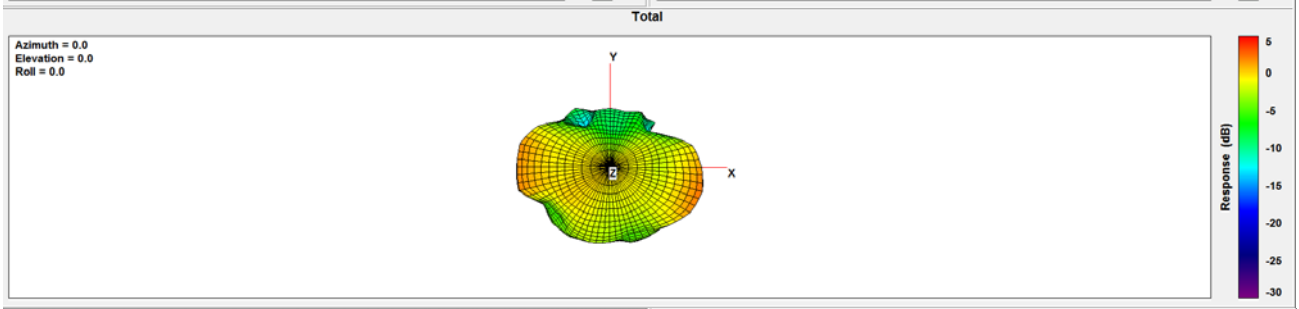
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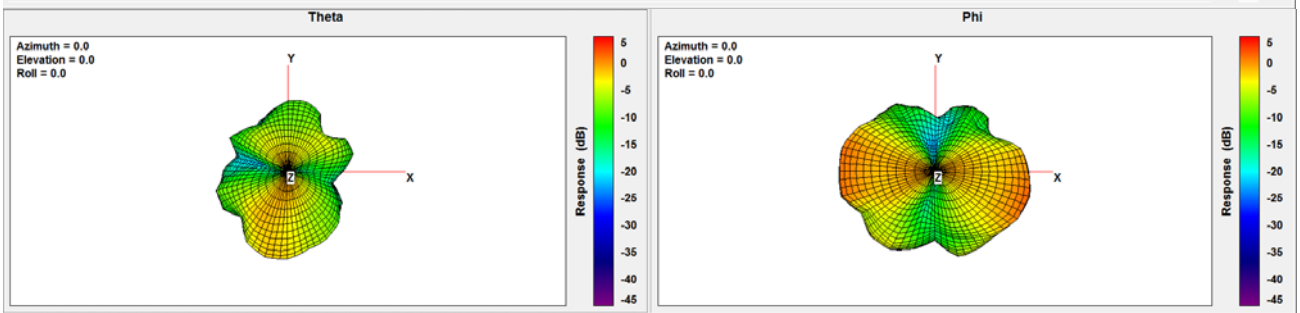
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Response (dB)
5 0 -5 -10 -15 -20 -25 -30 -35 -40 -45
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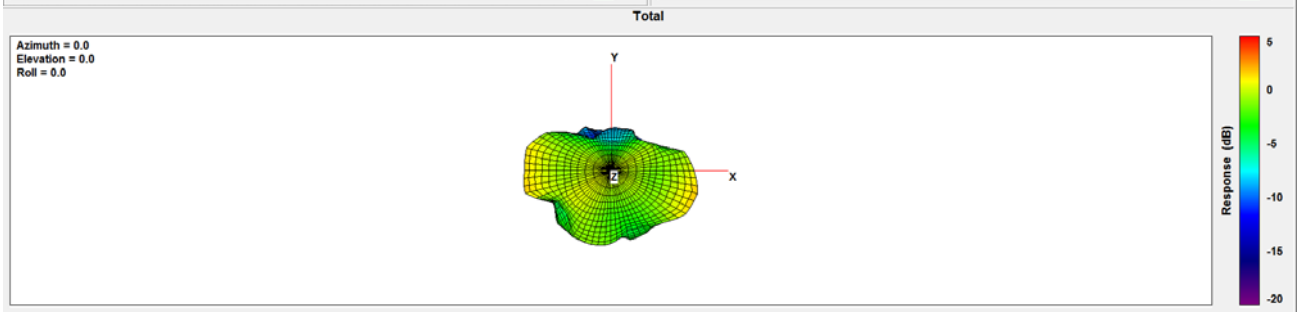
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Z
Response (dB)
5 0 -5 -10 -15 -20

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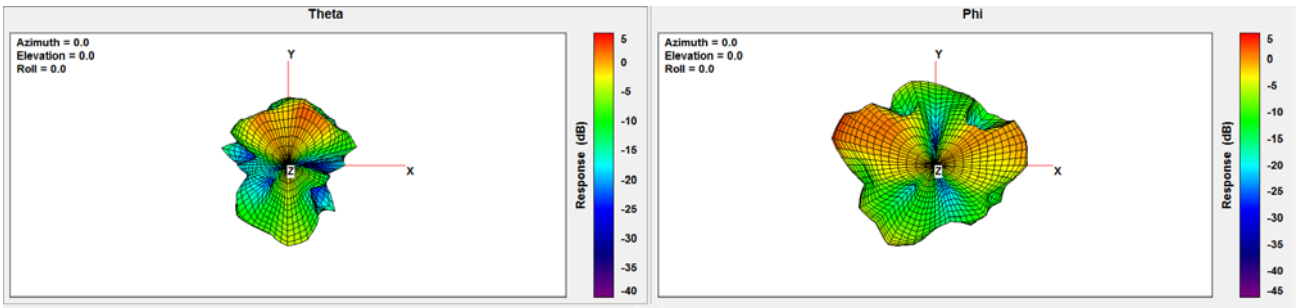
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Response (dB)
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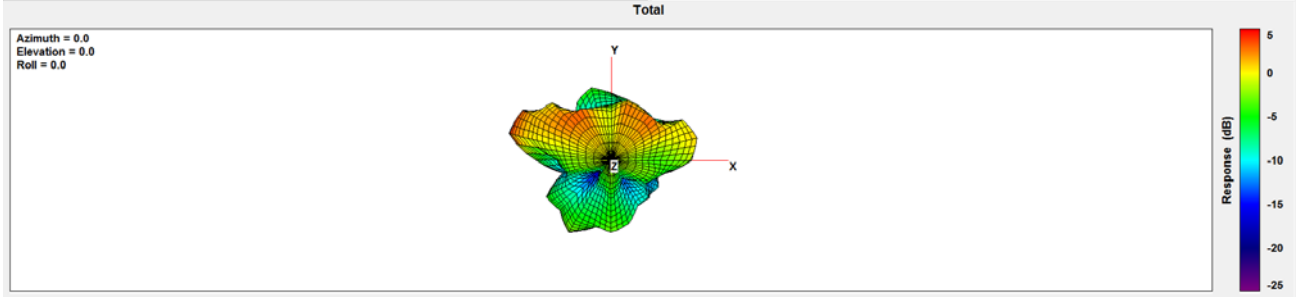
-35
-40
-45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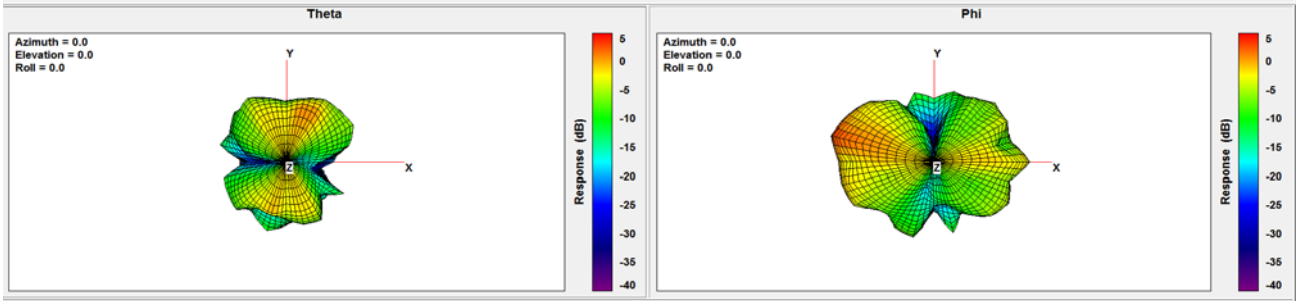
-5
-10
-15
-20
-25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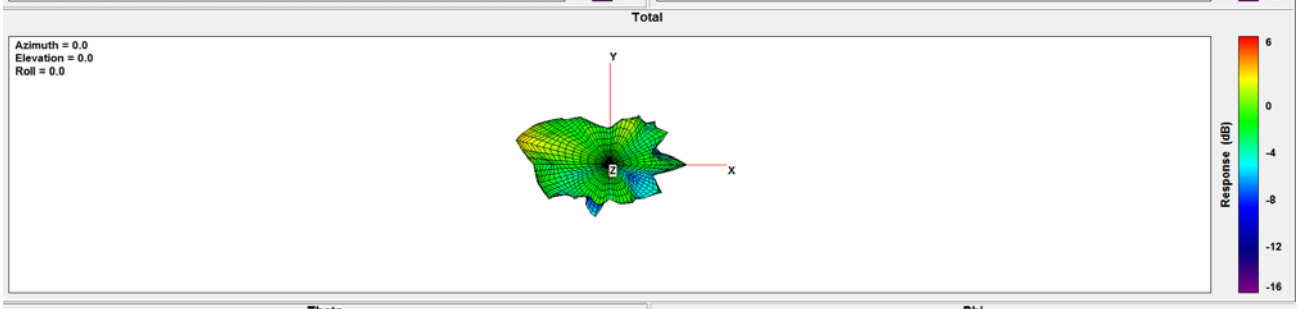
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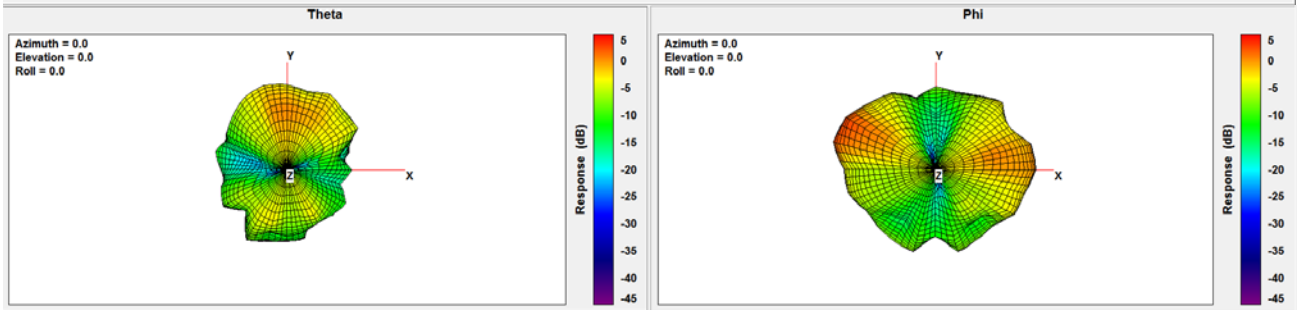
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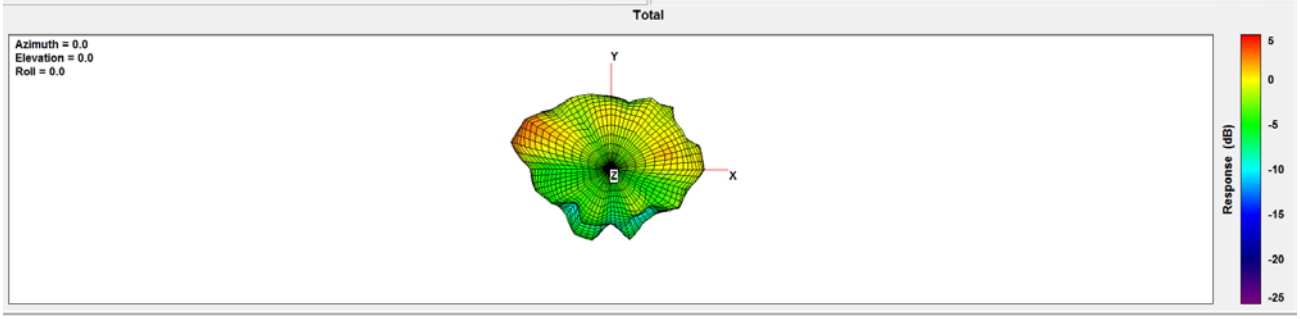
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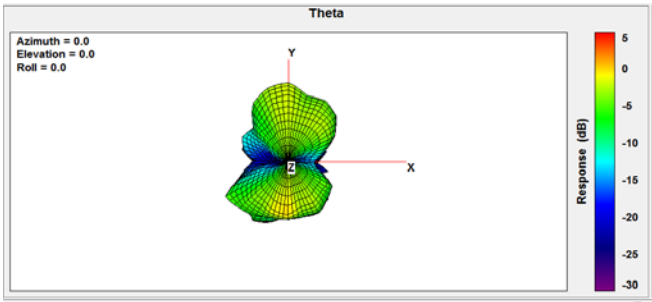
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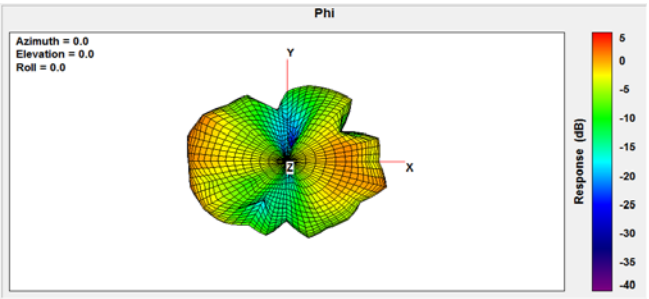
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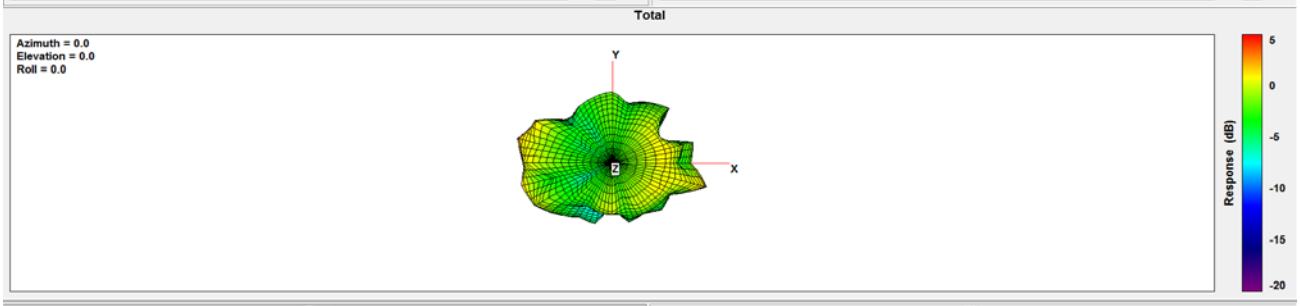
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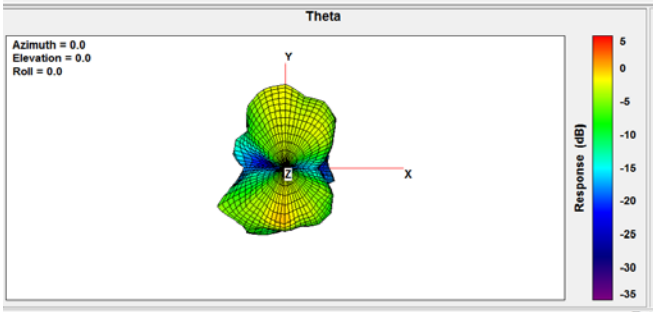
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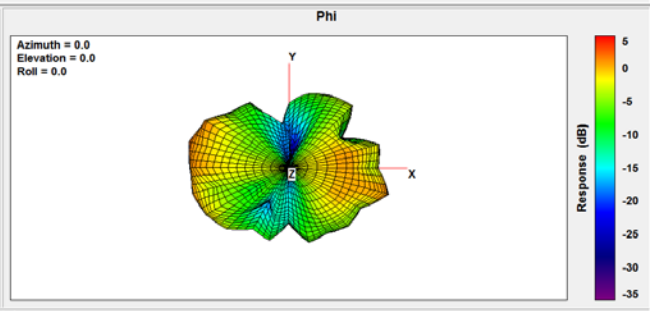
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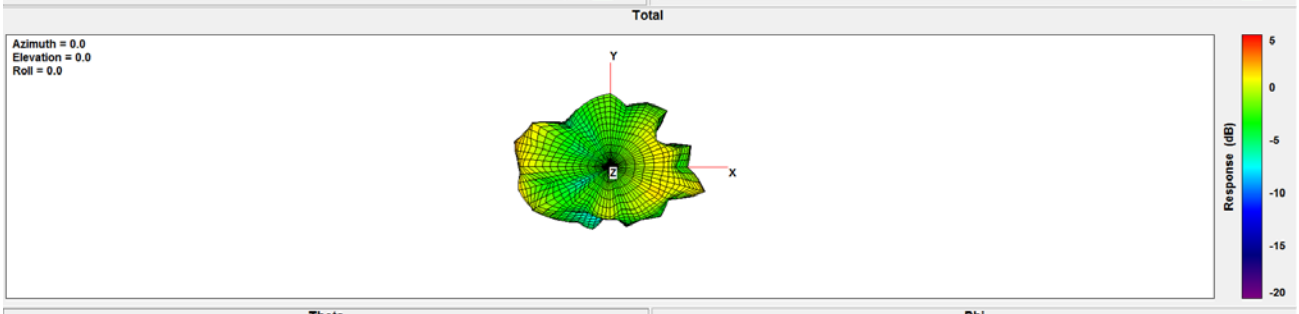
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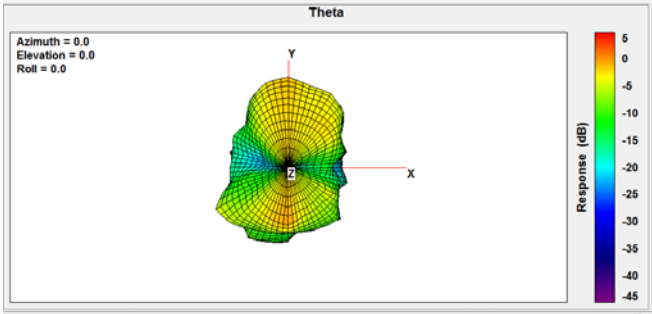
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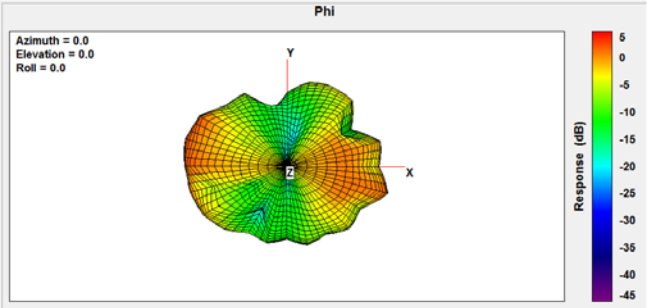
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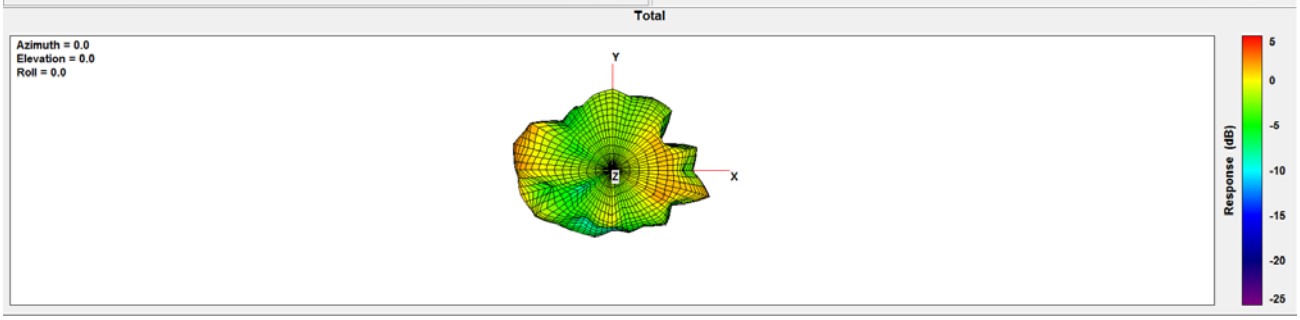
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