3D Antenna Measurement Report

REPORT NO.:	
PLATFORM MANUFACTURER:	Kunshan Innowave Communication Technology Co., Ltd.
PLATFORM NAME:	BT
ANTENNA TYPE:	PCB Antenna
TESTED DATE:	2022.11.25
ISSUED:	2022.11.28

APPLICANT: Kunshan Innowave Communication Technology Co., Ltd.

ADDRESS : 1689 Zizhu Road, Yushan Town, Kunshan City, Jiangsu Province

ISSUED BY :

ADDRESS :

RELEASE CONTROL RECORD

REPORT NO.	REASON FOR CHANGE	DATE ISSUED

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GENERAL INFORMATION

APPLICANT:	
MANUFACTURER:	Kunshan Innowave Communication Technology Co., Ltd.
MODEL NO.:	B04N

Test Standard:

PREPARED BY : _____ **, DATE :** 2022.11.28

APPROVED BY : _____ **, DATE :** 2022.11.28

1. Test EquipmentList

TYPE OF EQUIPMENT	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DUE DATE
etwork Analyzer	E5071C	WY46632208	2023.09.01
OTA	GTS-1800	N/A	2023.09.10

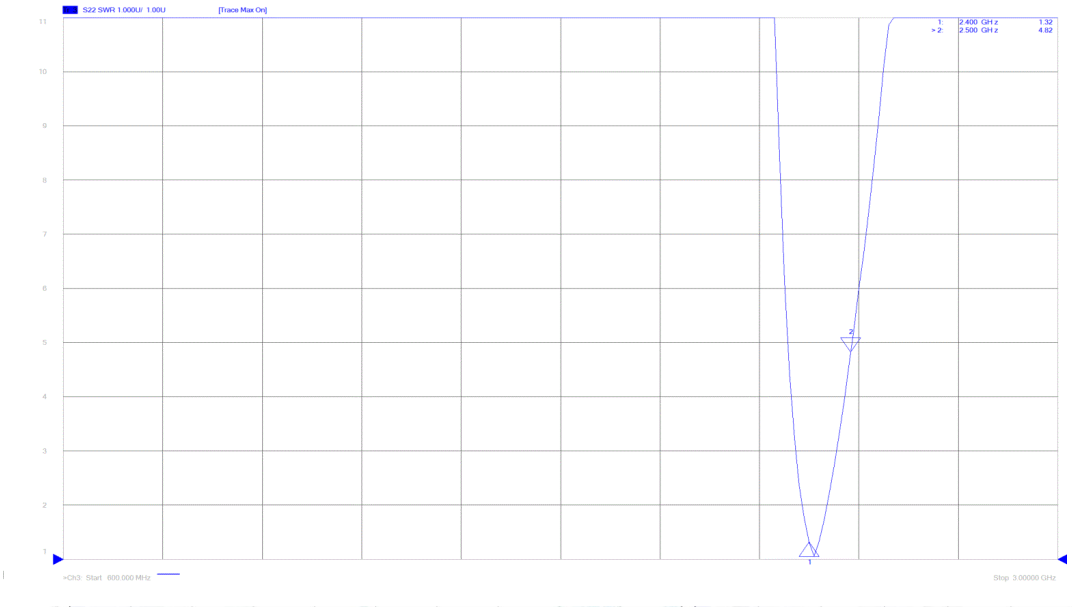
2. MeasurementUncertainty

Expanded Uncertainty for Measurement (k=2 or 95% Confidence Level) at Passive antenna test over frequency range 690 – 2200MHz is +/- 1.52 dB.

3. Characteristics of antenna

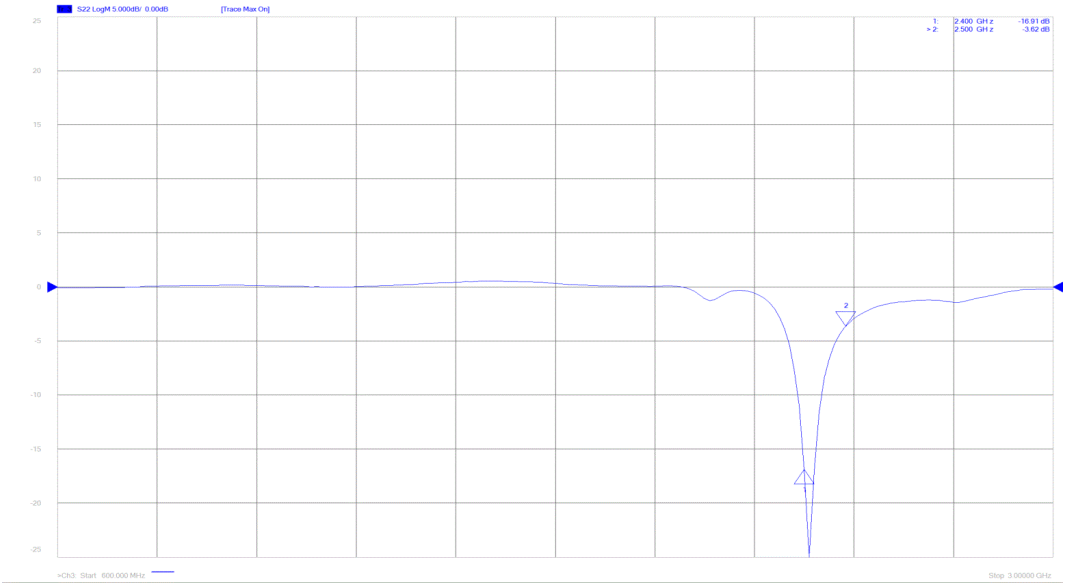
3.1. VSWR

BT Antenna:



3.2. S11

BT Antenna:

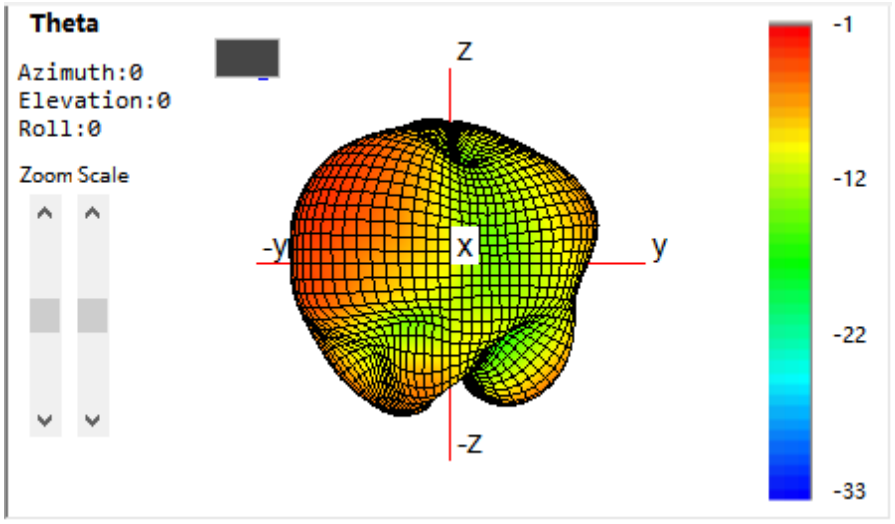


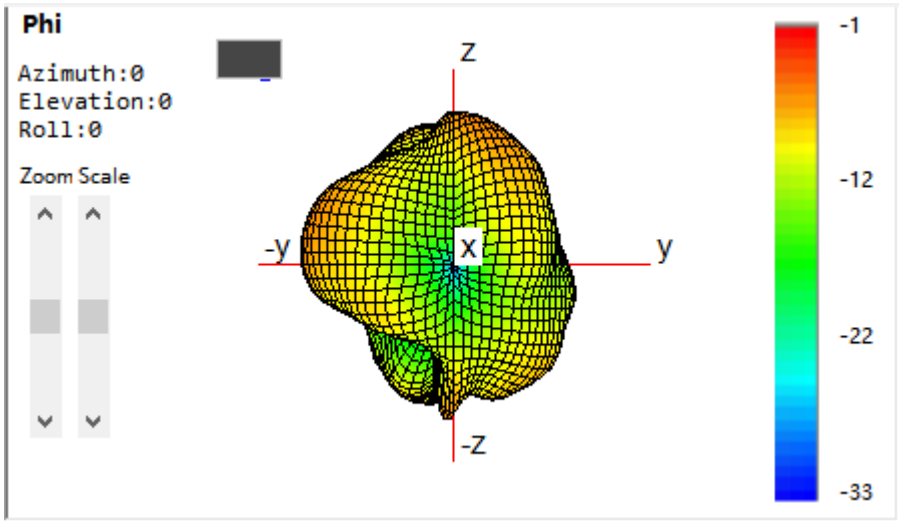
3.3. 3D Antenna Gain-Free Space

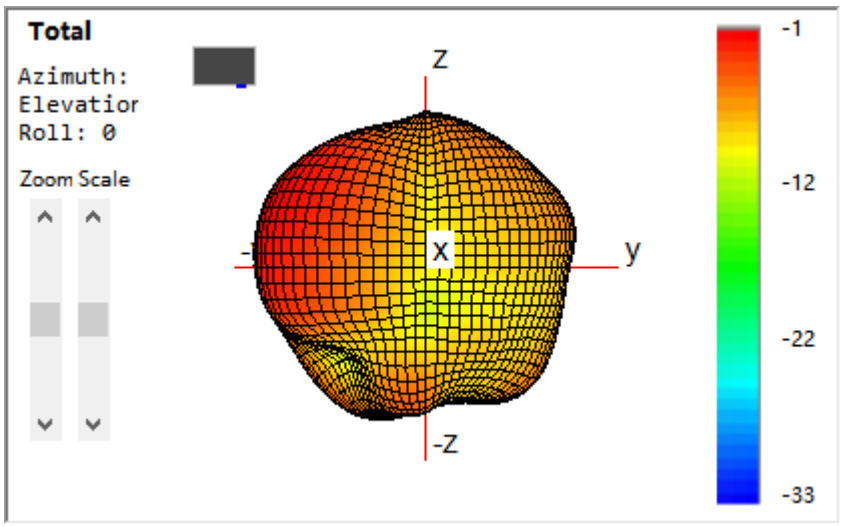
Freq(MHz)	Effi(dB)	Gain(dBi)
2400	-5.31	-5.1
2410	-5.19	-5.2
2420	-5.42	-5.1
2430	-5.84	-5.4
2440	-6.03	-5.1
2450	-6	-5
2460	-6.43	-5.2
2470	-6.81	-5
2480	-6.66	-5.3
2490	-6.87	-5.2
2500	-7.16	-5.2

3.4. Antenna Pattern

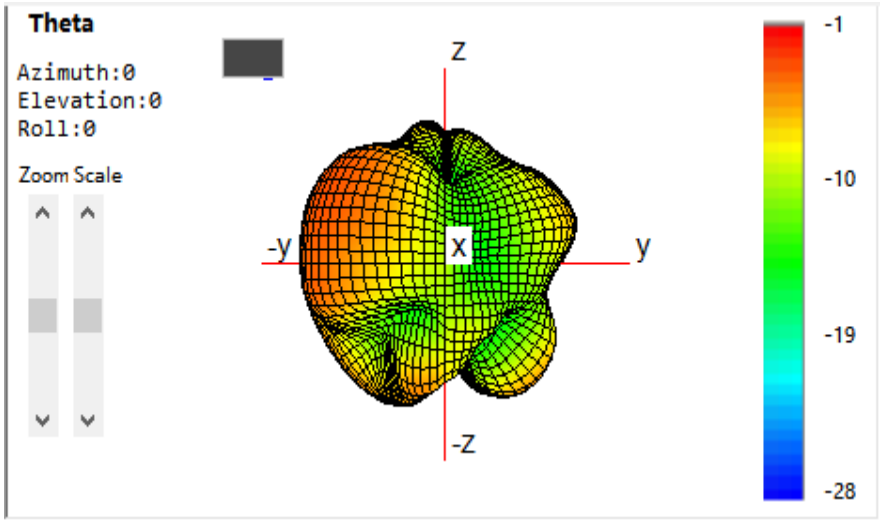
2400MHz






Total
Azimuth:
Elevatior
Roll: 0
Zoom Scale
Z
-Z
y
x
-1
-12
-22
-33

2440MHz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Z
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-y
y
x
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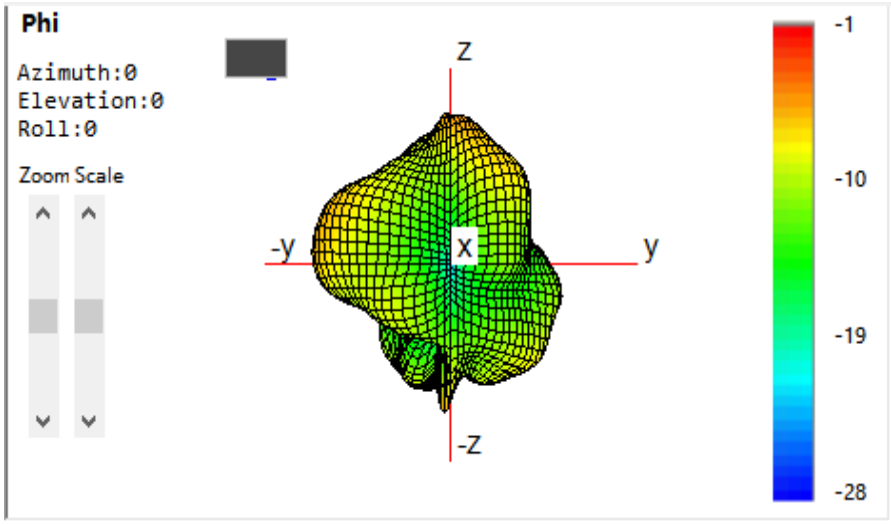
-10
-19
-28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y
x
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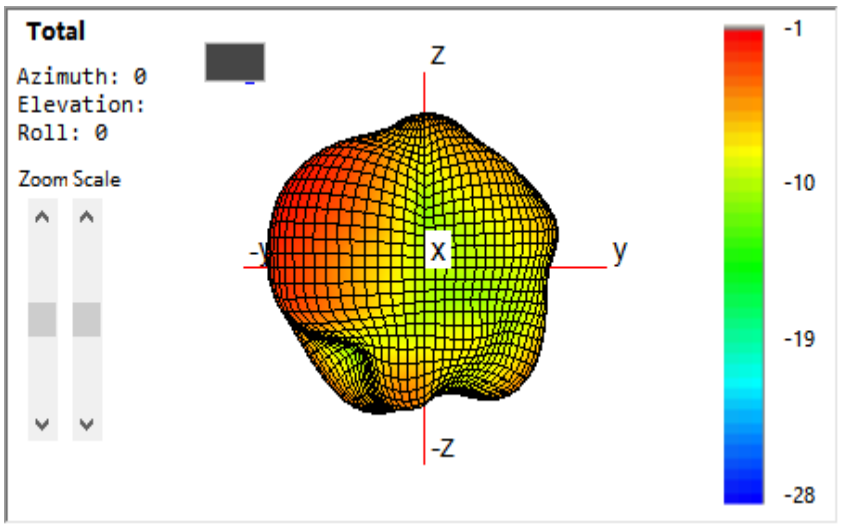
-10
-19
-28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Roll: 0
Zoom Scale
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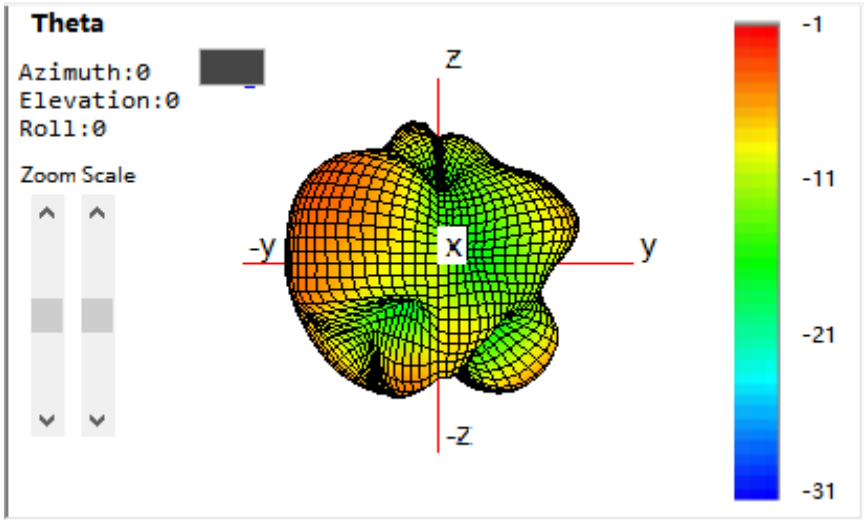
X
Y
-Z
-1
-10
-19
-28

2480MHz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x
y
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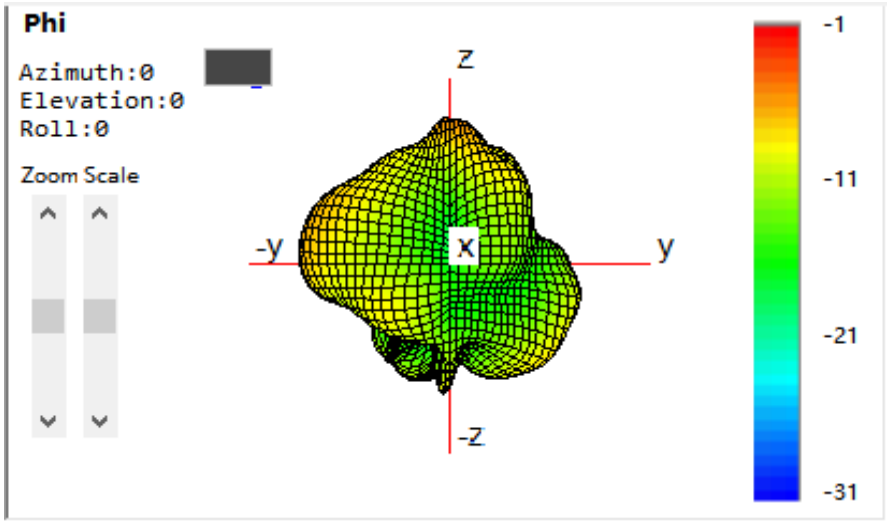
-11
-21
-31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y
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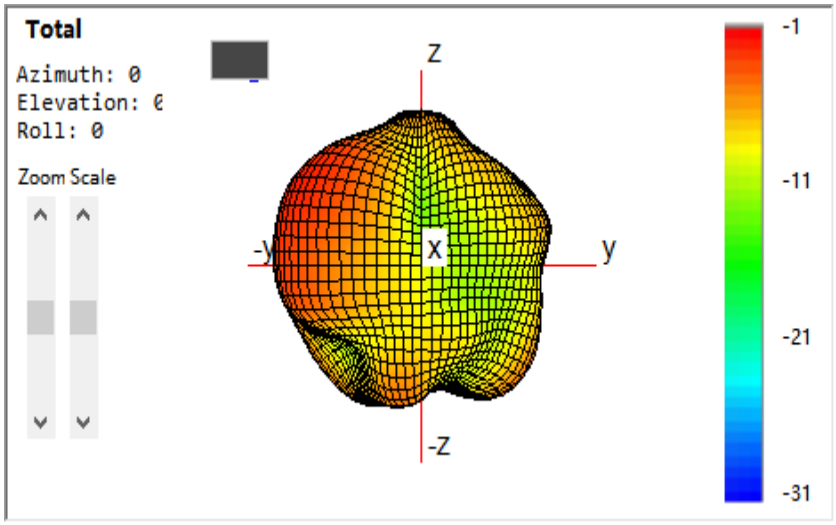
-11
-21
-31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Elevation: 0
Roll: 0
Zoom Scale
Z
-Y
X
Y
-Z
-1
-11
-21
-31