



Word Easy Electronics Co.,Ltd.

SPECIFICATION FOR APPROVAL

2025/06/17

Date

25061705

File No

1.0

Revision

NEXhome Smart Technologies Co.,Ltd.

CUSTOMER: _____

CUSTOMER NO: _____

BT Antenna L=47mm MHF

PART NAME: _____

WE007N.F0198.V01

SUPPLIER NO: _____

Date:

Q “TY:

CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

工程专用章
Hunter

Luo

Liu

WE-RD-F01-A



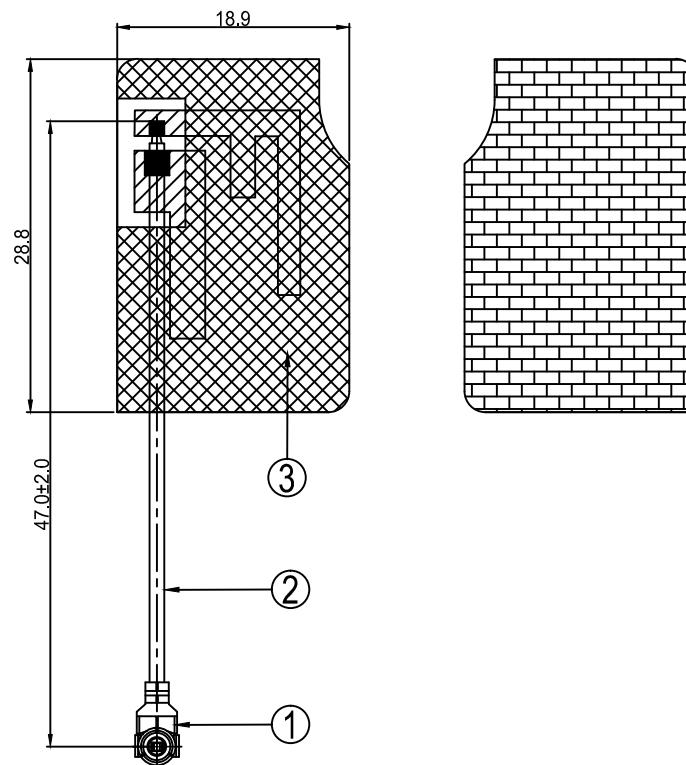
Schedule of Deed Projects

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10	N/A	N/A	N/A
11	-	-	-

RoHS

Compatible

REV.	DESCRIPTION	DATE
A	Initial Issuance	2025.06.16



3	FPCB	28.8*18.9*T0.2MM	FPCB	FPC0472.V01	1
2	Coaxial Cable	O.D.1.13 Gray	O.D.1.13	CAB0113.V01	1
1	Mini Connector	Au Plated 1st	Cu	MET0XD1.V01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

		World Easy Electronics Co.,Ltd.		Tel :0591-22628085 Fax:0591-22627656	
PART NAME: BT Antenna L=47mm MHF					
PART NO.: WE007N.F0198.V01				DATE: 2025-06-16	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance	
		Hunter	UNITS: mm	X.X ±0.50	
			SCALE: 1/1	X.XX±0.15	
			REVISION: A	X° ±3°	



Antenna Specification

Electrical Properties

Frequency	2400~2500MHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.6
Return Loss	≤ -13
Radiation	Omni-directional
Gain (Peak)	$\leq 1.6\text{dBi}(\text{MAX})$
Polarization	Linear
Connector	1st generation I-PEX

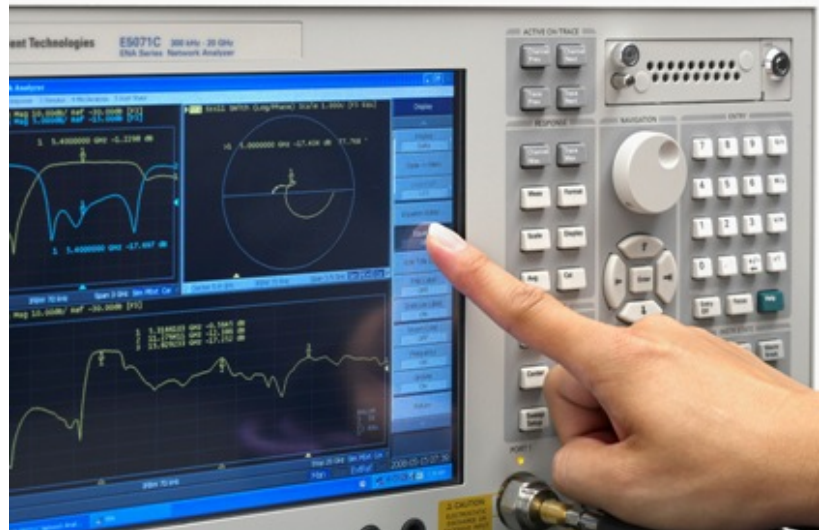
Physical Properties

Antenna Material	FPC
Cable Type	O.D.0.81//L=47mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Gray

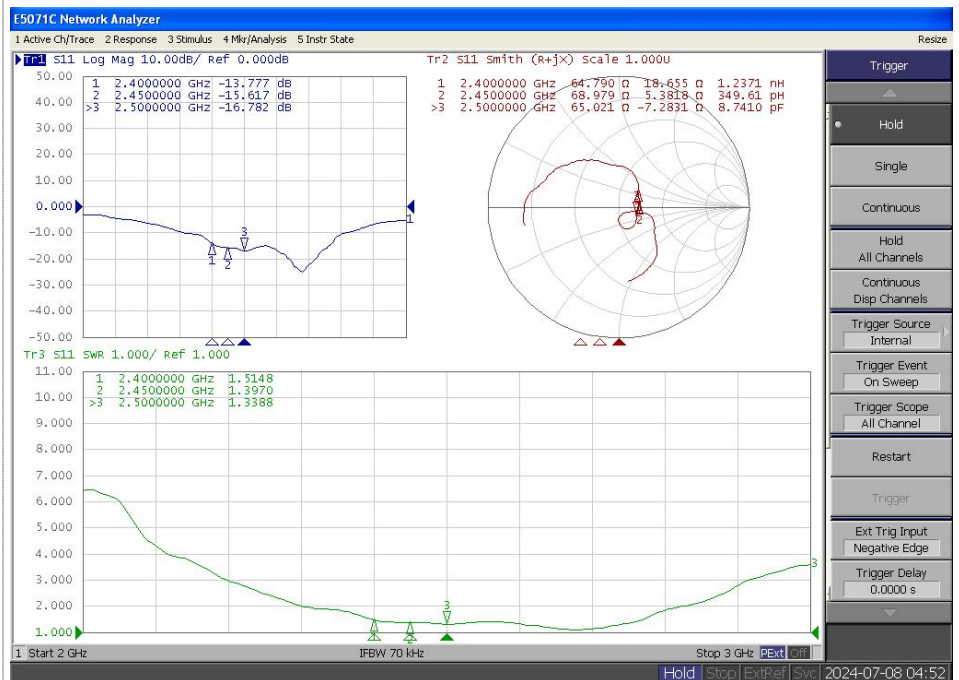


Antenna Performance Test

**Agilent
E5071C**

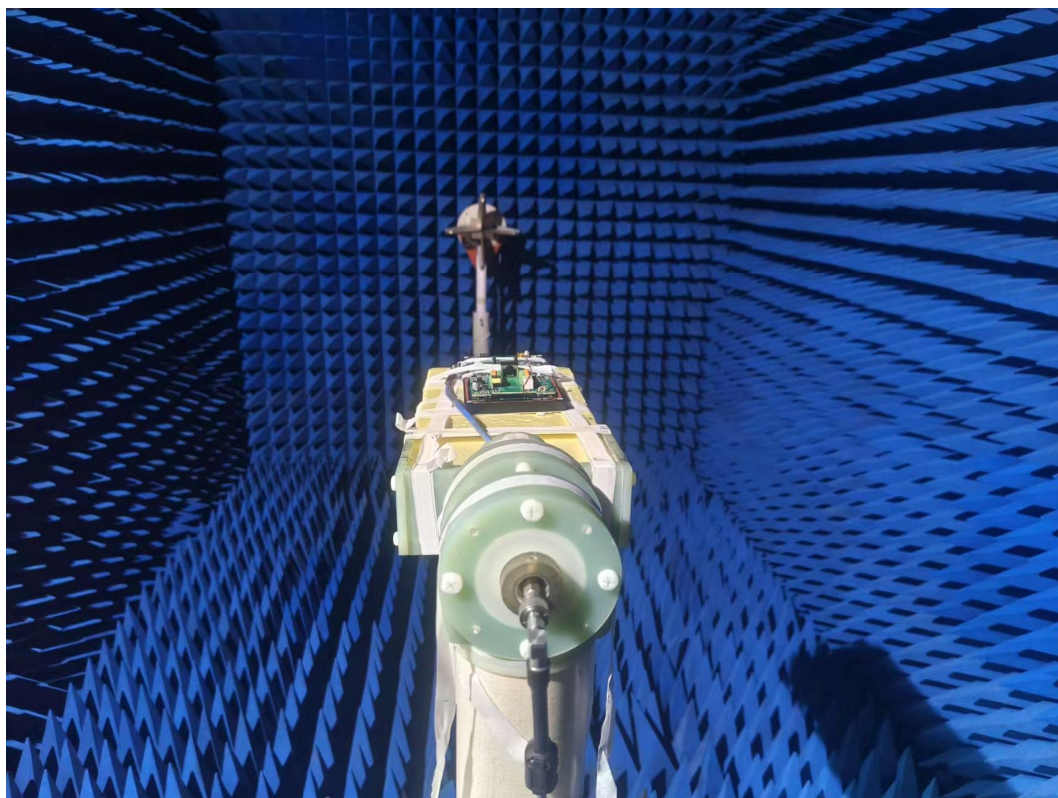
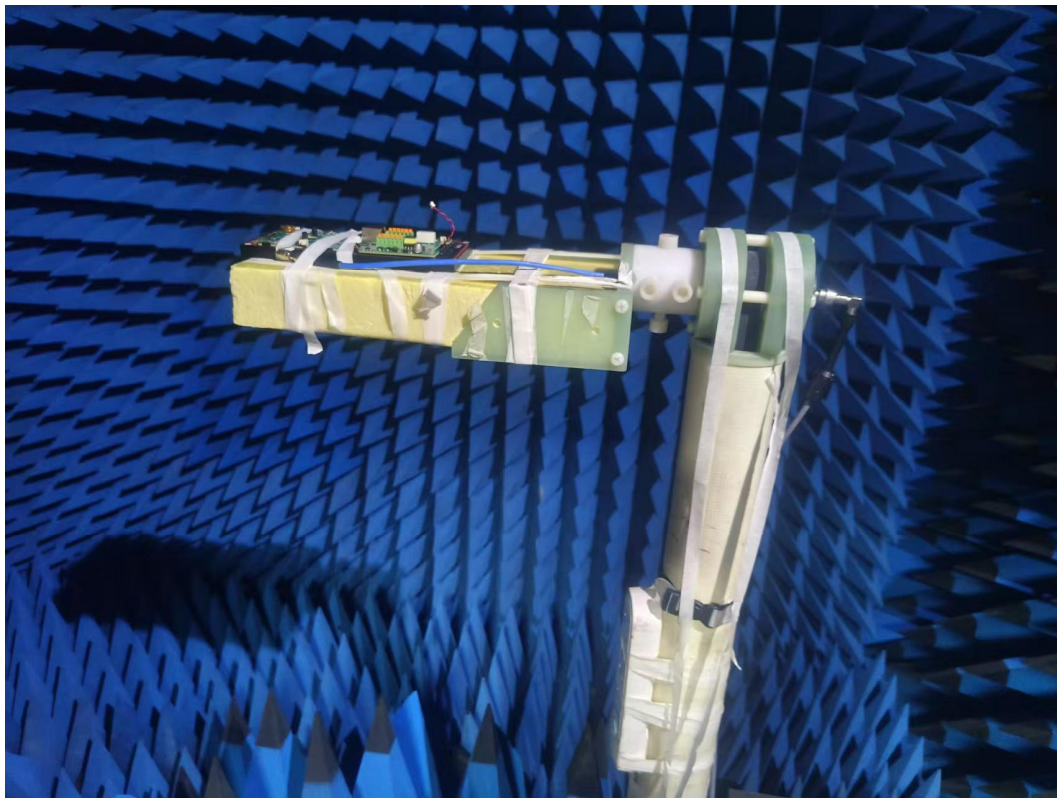


**S
Parameter
Test //
BT**





Antenna Passive Test



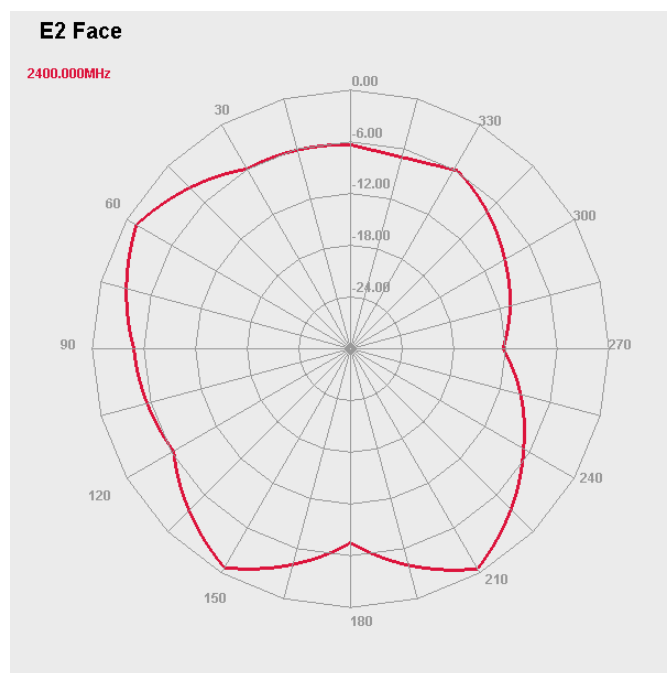
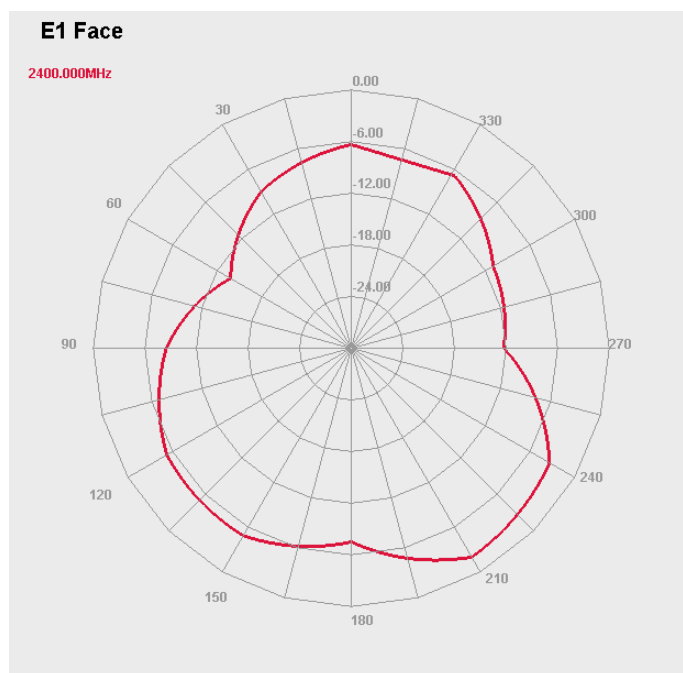
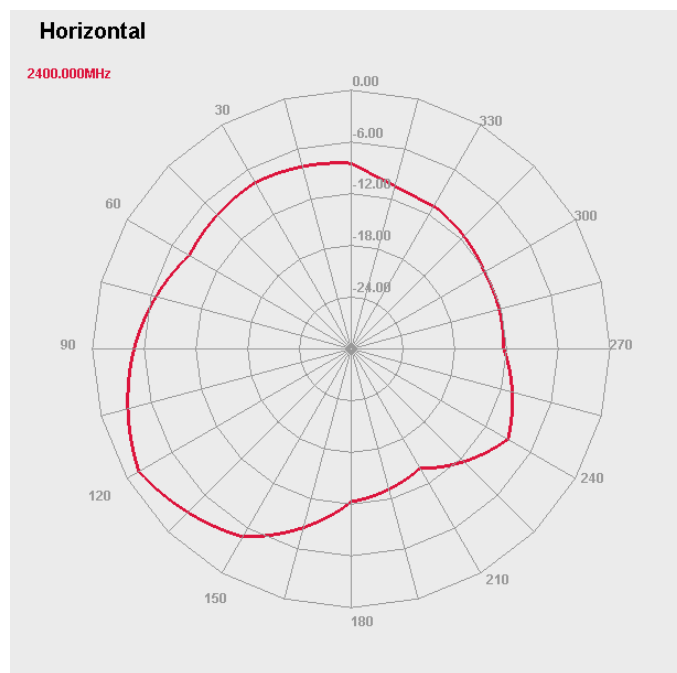
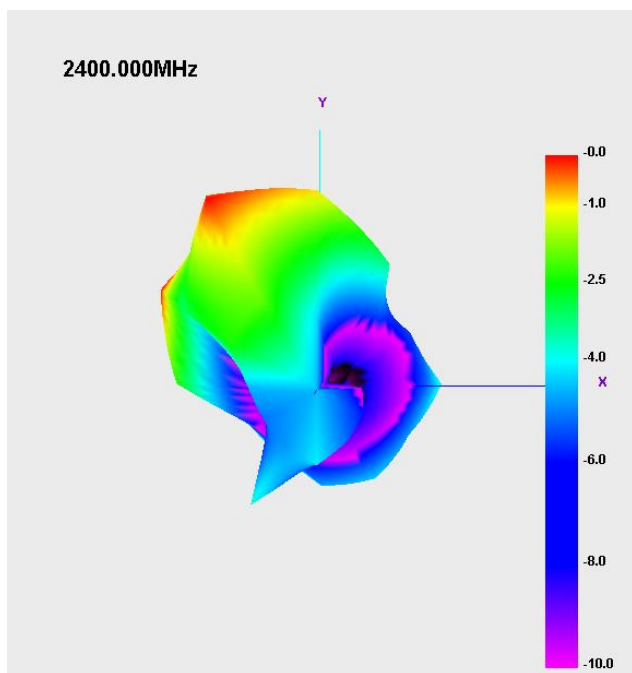


Passive Test For Zigbee

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	30.5	-5.2	0.0
2410	36.9	-4.3	0.8
2420	28.3	-5.5	-0.3
2430	32.9	-4.8	0.5
2440	26.5	-5.8	-0.3
2450	32.9	-4.8	0.7
2460	27.1	-5.7	0.1
2470	35.4	-4.5	1.0
2480	27.4	-5.6	0.2
2490	35.3	-4.5	1.6
2500	29.5	-5.3	1.2

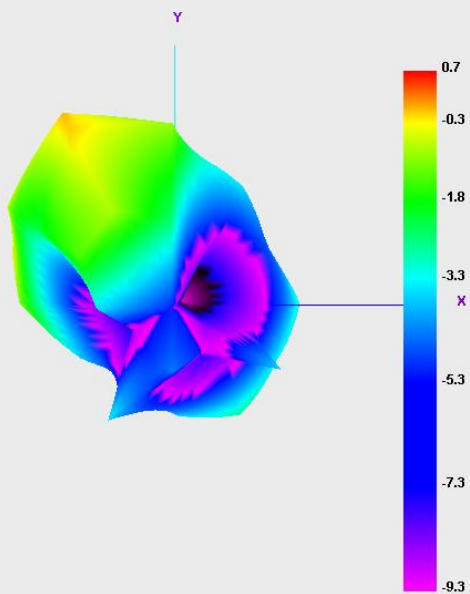


Antenna Radiation Pattern



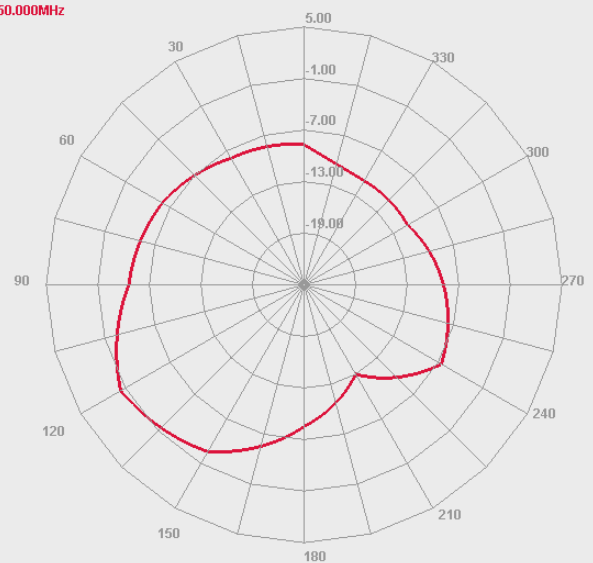


2450.000MHz



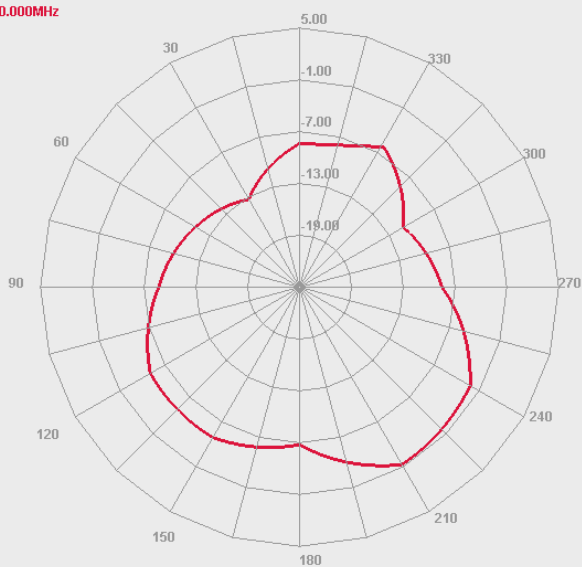
Horizontal

2450.000MHz



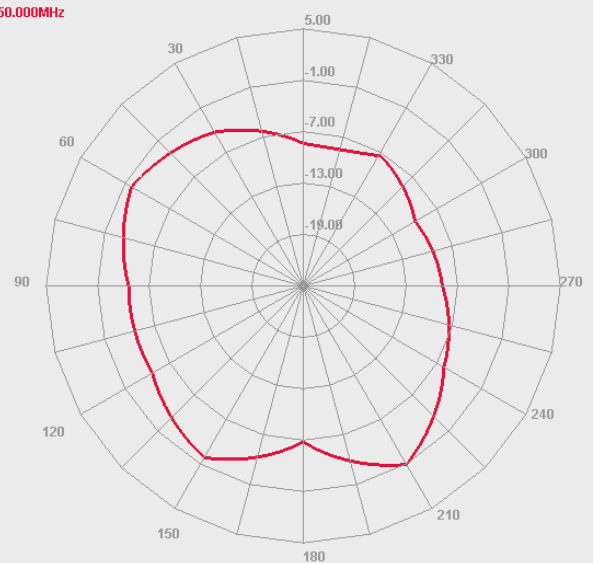
E1 Face

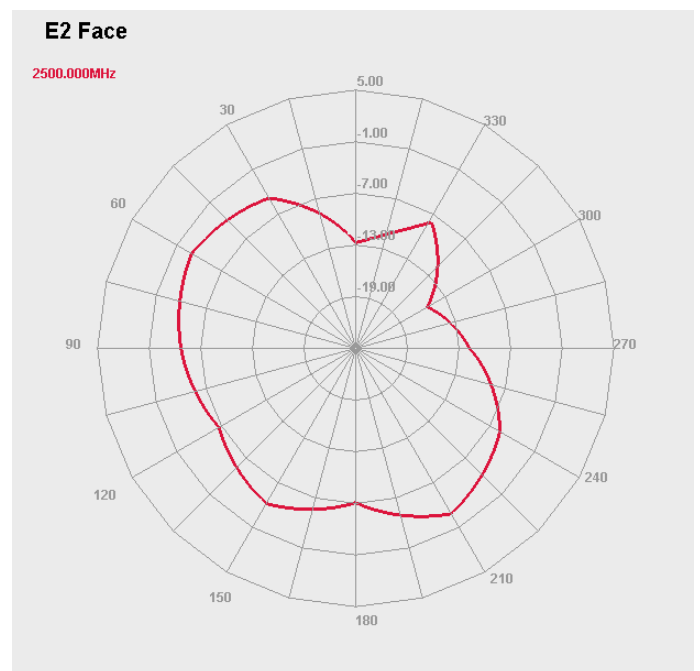
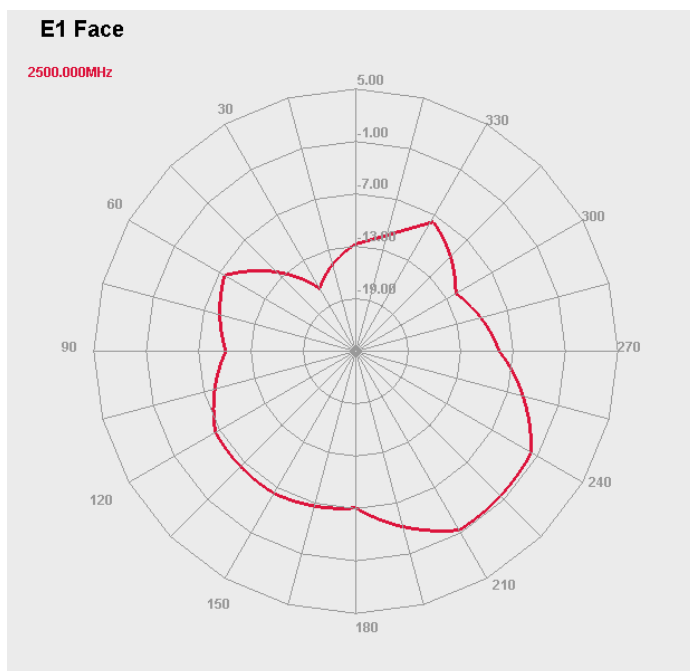
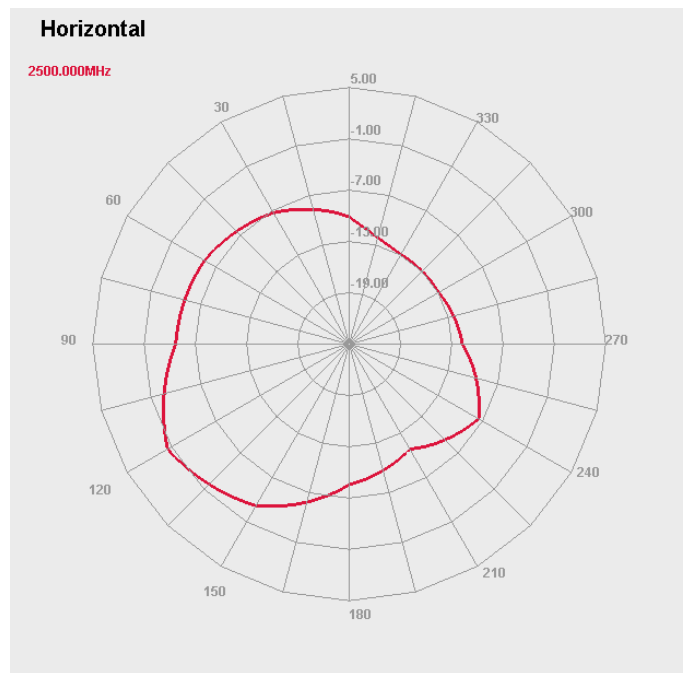
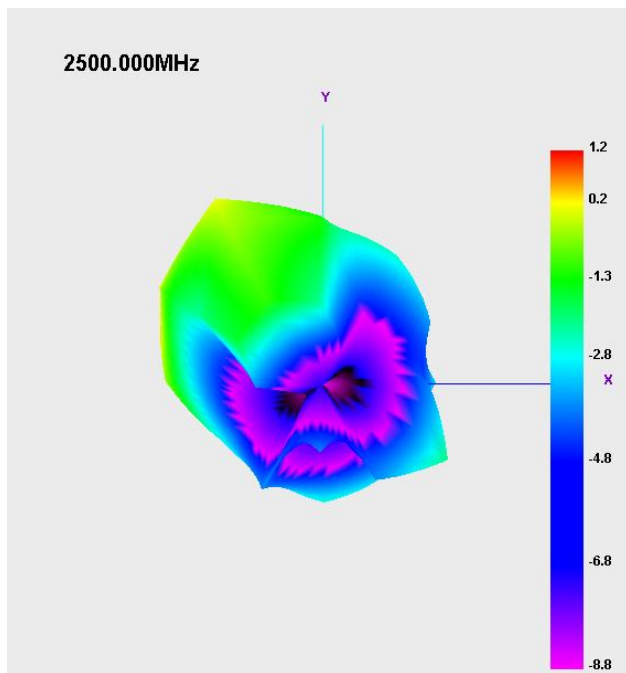
2450.000MHz



E2 Face

2450.000MHz







Antenna Profile

Device



*Antenna
BT*





Assembly Drawing

BT Antenna

