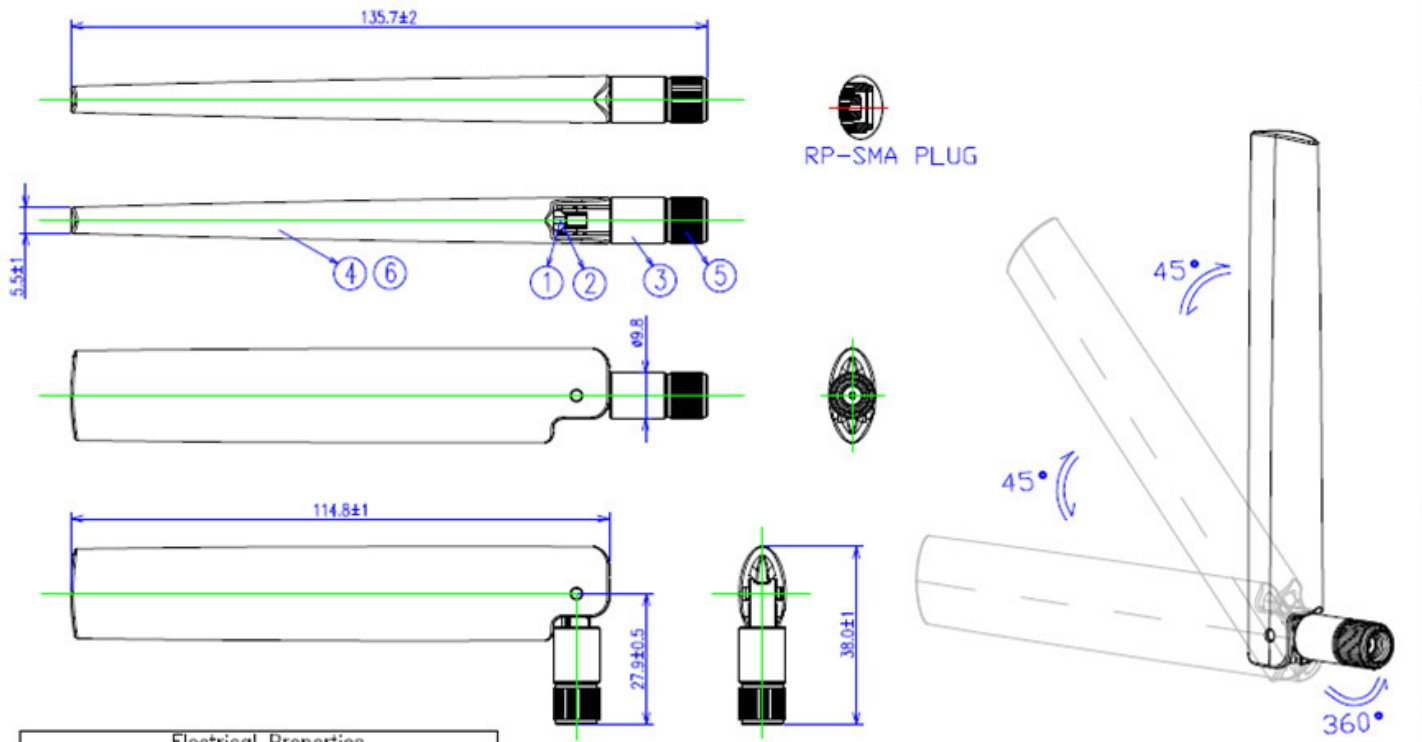


AWAN P/N	A8EEE-000002
SENAO P/N	7102A0558000

Rev.	Edif	Description	Drawn/Date	Checked/Date	Approved/Date
X1		NEW RELEASE	Roy 05/12/22	Louis 05/12/22	Louis 05/12/22

Brand Name: AWAN  
 Model Name: 7102A0558000  
 Antenna Type: Dipole



Electrical Properties	
Frequency	2400~2500 MHz
	5150~5850 MHz
Impedance	50 Ohm Nominal
VSWR	< 2
Gain	2.4G~2.5G @ 3dBi±0.5dBi
	5.15G~5.85G @ 5dBi±0.5dBi
Polarization	Linear
Mechanical Properties	
CASE	ABS
CONNECTOR	RPSMA
CASE COLOR	Black
Operating Temp	-30 ~ +65 °C
Waterproof level	IP68

6	SPONGE	1		SPONGE
5	SMALL WIRE	1		CORR
4	Antenna Cover	1		ABS PA757
3	Antenna Base	1		PC/PBT ALLOY A724
2	RG178 CABLE	1		Cable
1	PCB	1		PCB

Rev.	Name	D'y	Part #	Material / Finish
1	AWAN			

Drawn	Rev	Date
Roy	05/12/22	
Check	Rev	Date
Roy	05/12/22	
Assm	Rev	Date
Louis	05/12/22	
Appr	Rev	Date
Louis	05/12/22	

ADE-135DBB
DIPOLE_ANT_HF

AWAN	ABEE	SALES	A3
Customer Drawing	C:\APP01-00-01	X1	

HALOGEN FREE

Address : Rm. F, B2., No. 207-1, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City, Taiwan (R.O.C.)





# AWAN Dipole\_DB\_band 135mm Report

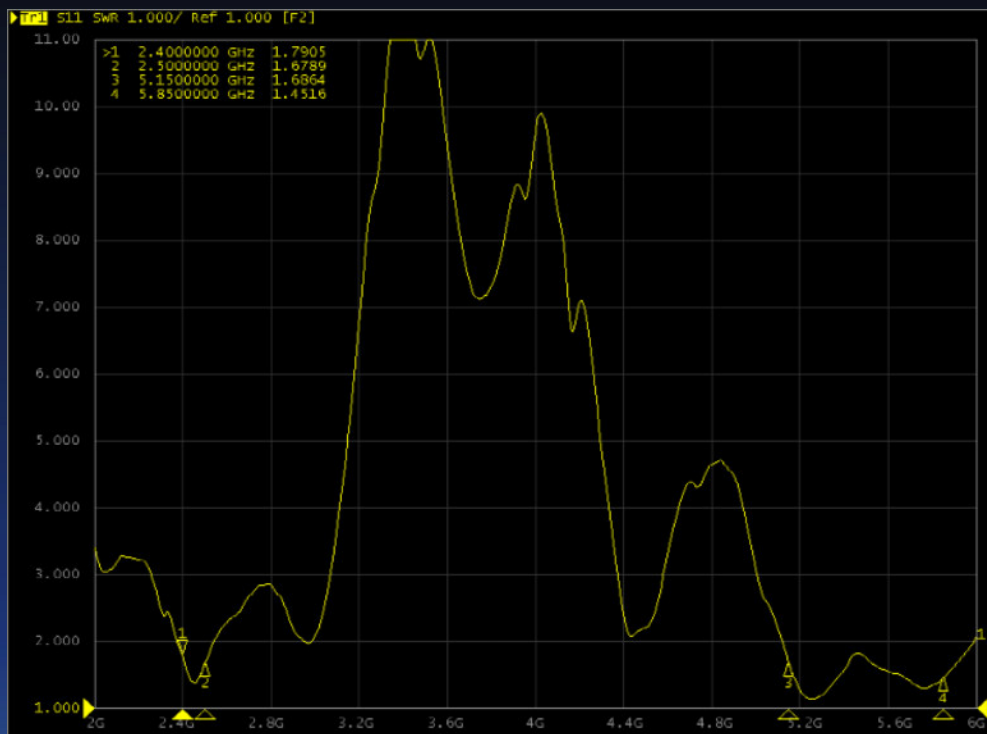
*ADVANCED WIRELESS & ANTENNA  
INC.*

# Antenna proposal and specification

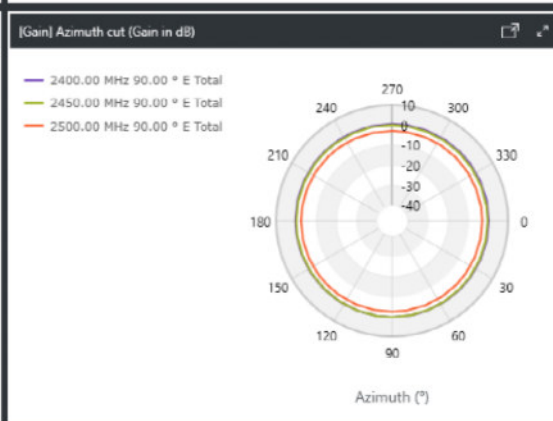
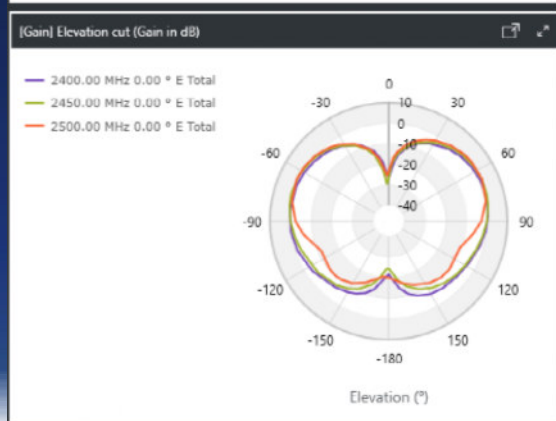
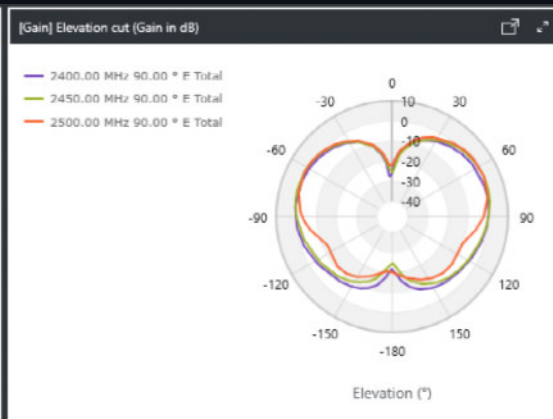
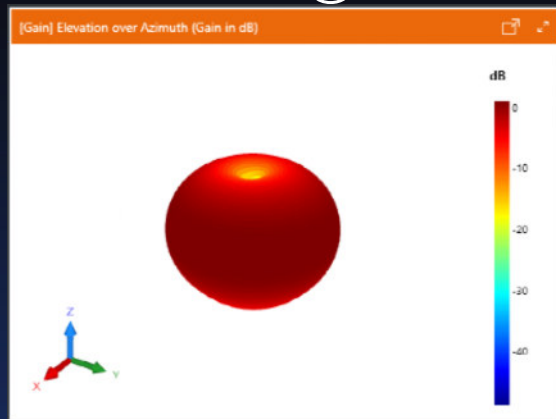


Antenna Proposal	
Antenna type	•Dipole
Measurement data	
VSWR	•VSWR < 2
Peak Gain	•2.4 ~ 2.5 G 3dBi $\pm$ 0.5dBi •5.15 ~ 5.85G 5dBi $\pm$ 0.5dBi
Efficiency	•2.4 ~ 2.5 G 60 ~ 70 % •5.15 ~ 5.85G. 60 ~ 75 %

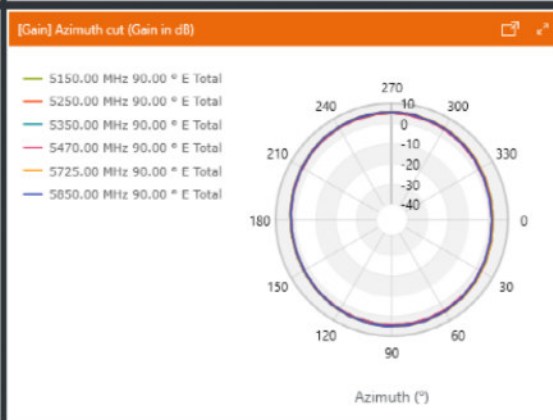
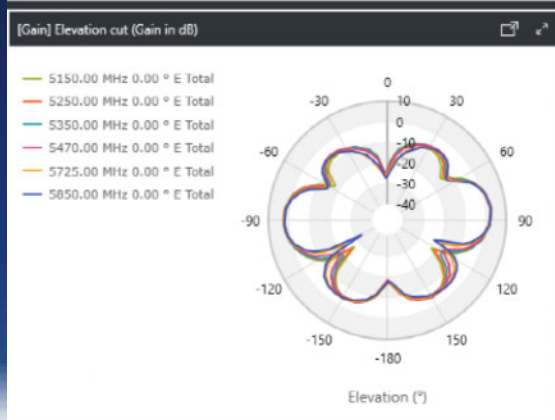
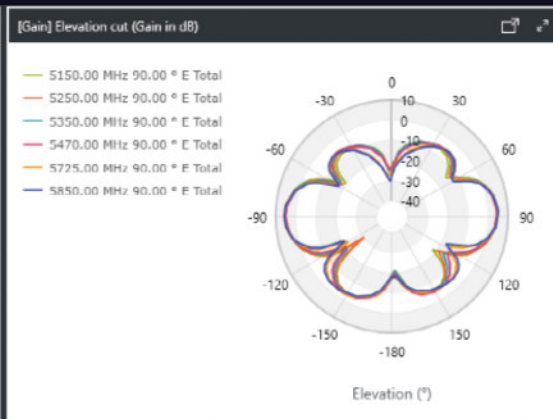
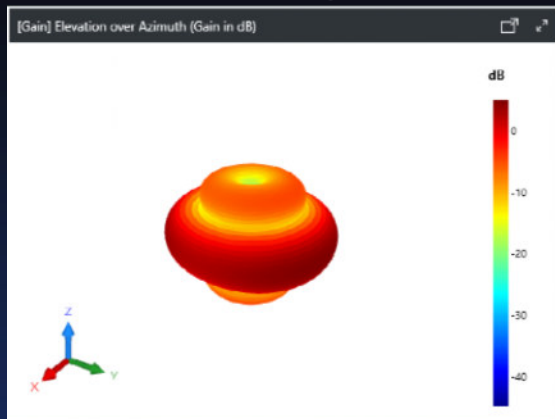
# Return Loss



# 2D & 3D Radiation @2GHz



# 2D & 3D Radiation @5GHz



# EFF. & Peak Gain

Frequency (MHz)	E-total (dBi)	Efficiency (dB)	Efficiency (%)
2400	2.85	-1.96	63.68
2450	2.97	-1.78	66.37
2500	2.73	-2.10	61.66
5150	4.45	-1.79	66.22
5250	4.61	-1.38	72.78
5350	4.97	-1.78	66.37
5470	4.85	-1.49	70.96
5725	4.86	-1.95	63.83
5850	4.71	-1.65	68.39