

Internal Antenna Specification

IU-M8232-V2-ANT

Layout Size: 14.3*5.5MM



Electronic Characteristics

Frequency	2.4GHz~2.483GHz
Gain	-2.08 dBi
VSWR	2.9166 Max
Polarization	All direction antenna
Azimuth Bandwidth	Omni-directional
Impedance	50 ohm
Antenna Type	PCB Onboard Antenna
Operating Temp.	-40℃~+85℃
Storage Temp.	-40℃~+120℃

Antenna assembly diagram

Device



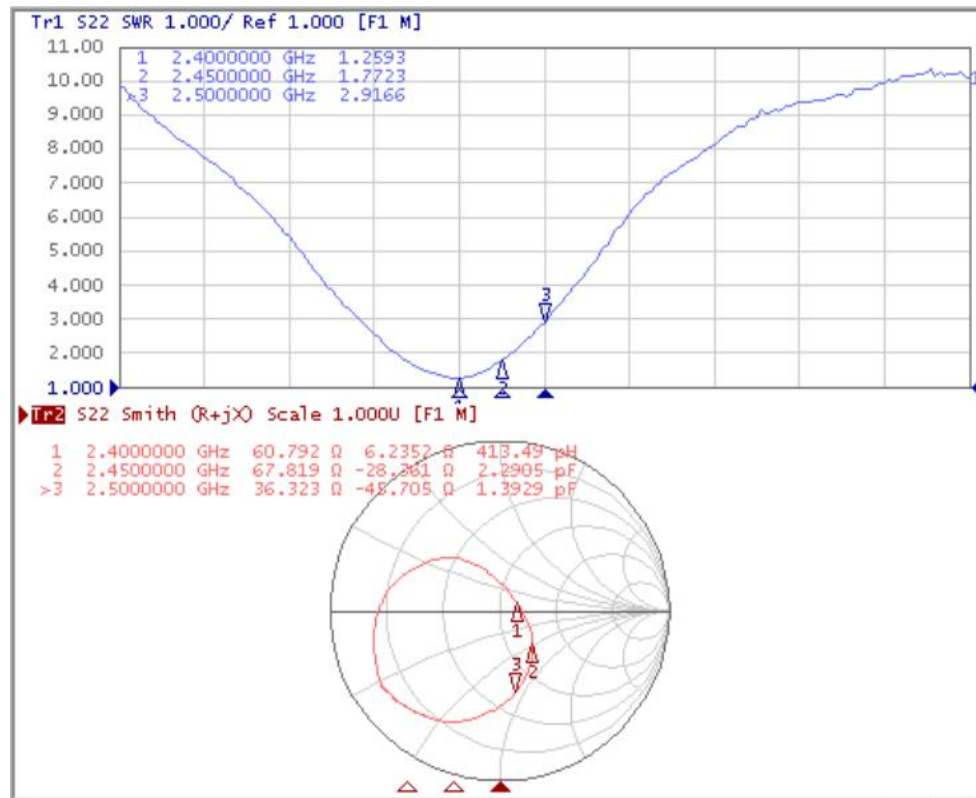
Antenna Location



The Environment of Antenna Radiation Pattern

TEST ITEMS	TEST PARAMETERS	TEST EQUIPMENT	EQUIPMENT PHOTOS
S parameters	VSWR, Smith	Network analyzer Agilent 5071B	
Passive test	Efficiency, Gain Test	Microwave anechoic chamber: GTS 2800 Network analyzer Agilent 5071B	

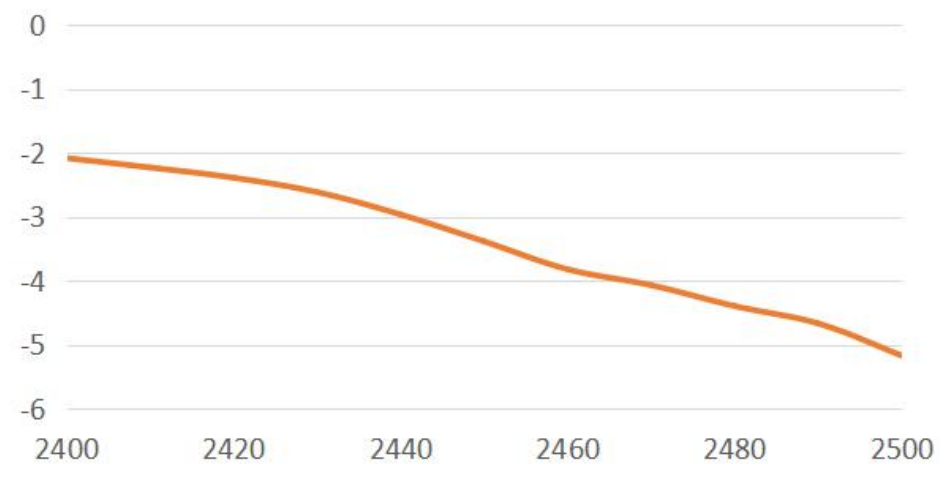
VSWR and Smith



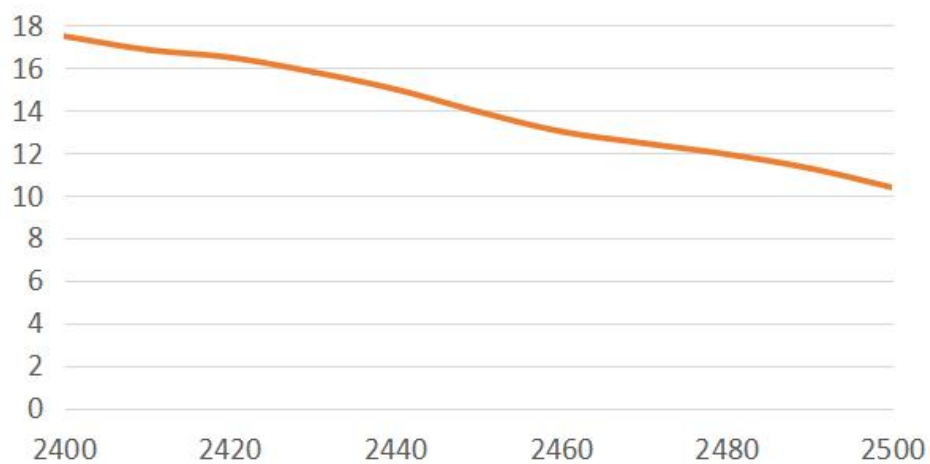
Efficiency and Gain Test

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	-2.08	-7.58	17.46
2410	-2.23	-7.74	16.83
2420	-2.39	-7.83	16.46
2430	-2.62	-8.02	15.79
2440	-2.97	-8.25	14.97
2450	-3.39	-8.56	13.92
2460	-3.82	-8.86	12.99
2470	-4.07	-9.05	12.44
2480	-4.40	-9.24	11.92
2490	-4.67	-9.48	11.26
2500	-5.17	-9.85	10.36

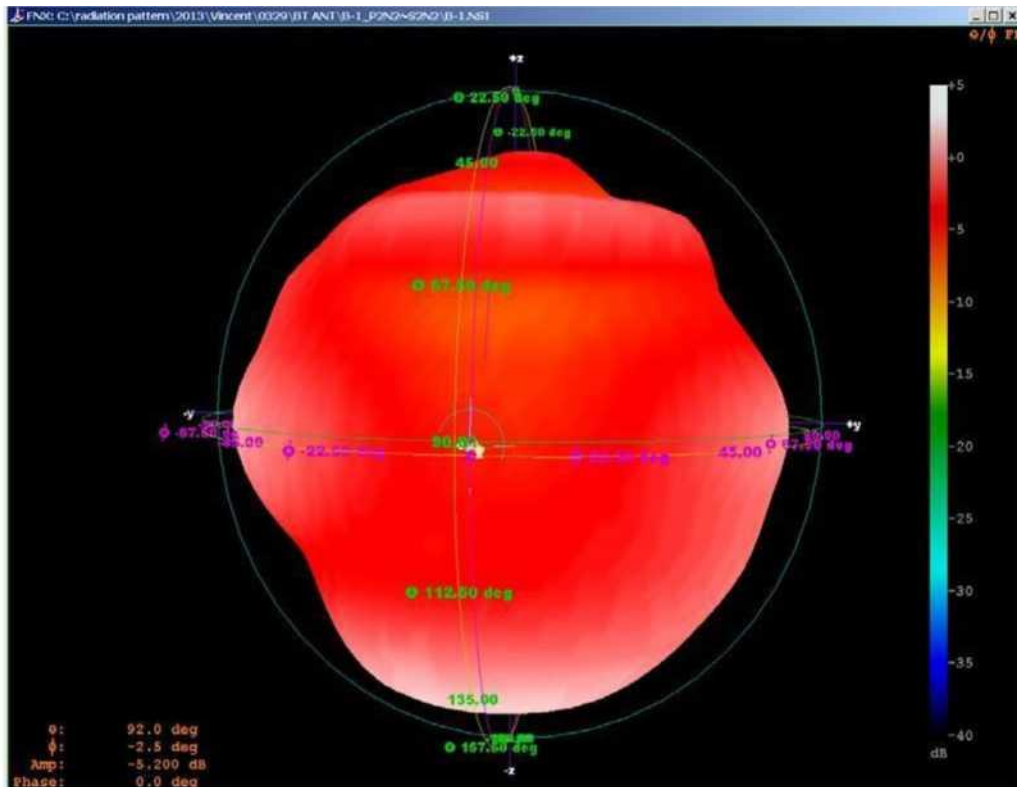
Gain(dBi)



Efficiency(%)

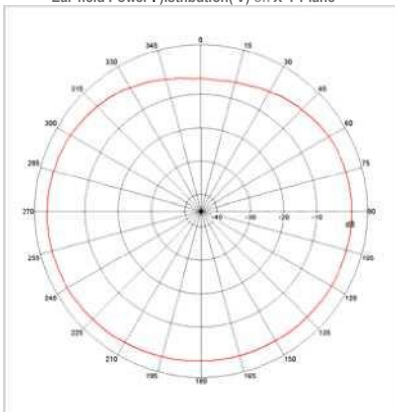


3D radiation pattern diagram



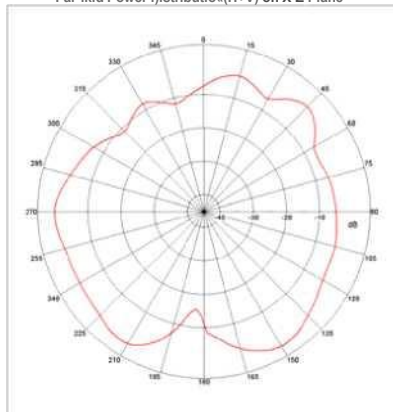
XY-plane

Far-field Power Distribution (V) on X-Y Plane



XZ-plane

Far-field Power Distribution (H+V) on X-Z Plane



YZ-plane

Far-field Power Distribution (H+V) on Y-Z Plane

