CYANHE 东莞市青禾电子科技有限公司

Dongguan CYANHE Electronic Technology Co., Ltd

SPECIFICATION FOR APPROVAL

Customer Name: EJEAS

Project Name: S2

Antenna Description： 480MHz 0.81 Black cable L=270mm

Customer P/N: 03.4100.000061

CYANHE P/N: H007A01C01002

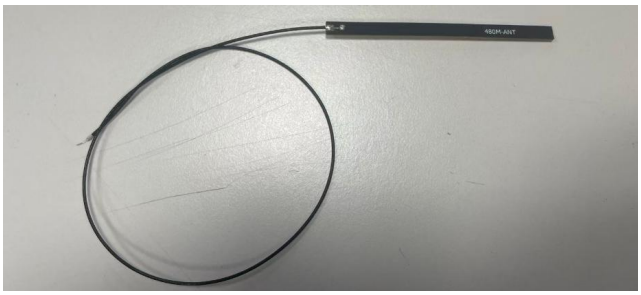
Date: 2025-09-15 Vesion:A1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Annie	
AUDITOR BY:	Bronson	
APPROVED BY:	Edith	
DATE:	2025-09-15	

Production Address： No. 2 Factory, Qianmei Road, Dongkeng Town, Dongguan City

Number	Effective date	Change record
V1.0	2025-09-15	Initial release

1. Product Photo:



2.Product features:

a. Peak Gain 480MHz 0.82 dBi

b. Efficiency is high

c. Assembly is simple

3. Main technical specifications:

Main technical specifications	
Frequency Range(MHZ)	480
Impedance(Ω)	50
Gain(dBi)	0.82
Efficiency(%)	46.63
ReTurnLoss(dB)	≤-9.5
VSWR	≤2.0
Admitted Power	1W
Polarization	Linear,Vertical
Radiation	Omni-directional
Connector Type	Cable

Physical Properties	
Operating Temp	-20℃~+60℃
Storage Temp	-20℃~+70℃

4. **Electrical Specification :**

Those specifications were specially defined for test Stream model.

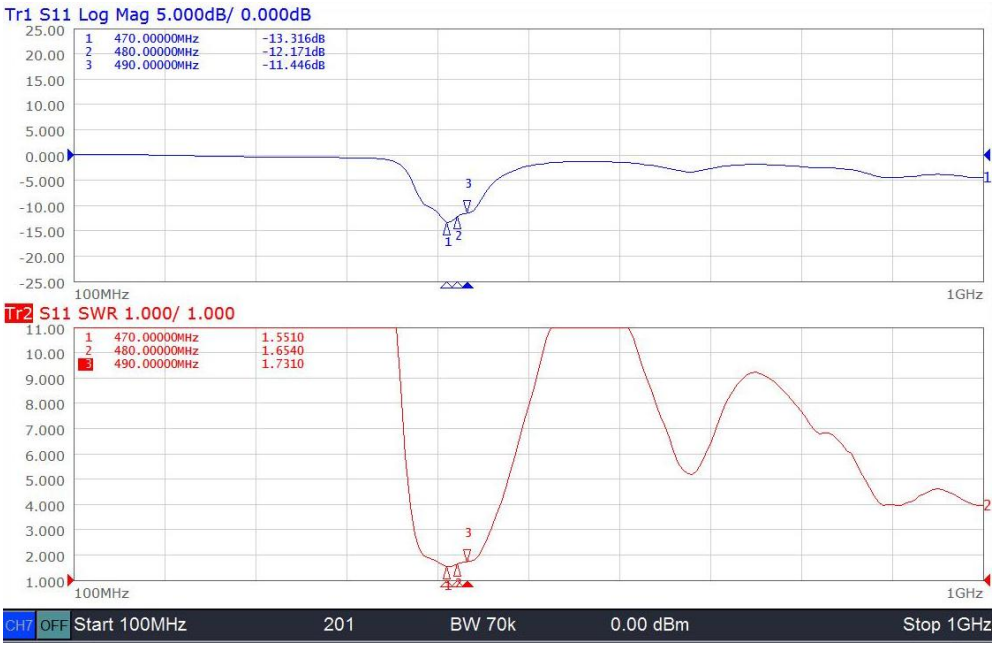
5. VSWR

5.1 Measuring Method

1.A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR

2. Keeping this jig away from metal at least 20cm

5.2 Measurement frequency points and VSWR value



6. Anechoic Chamber

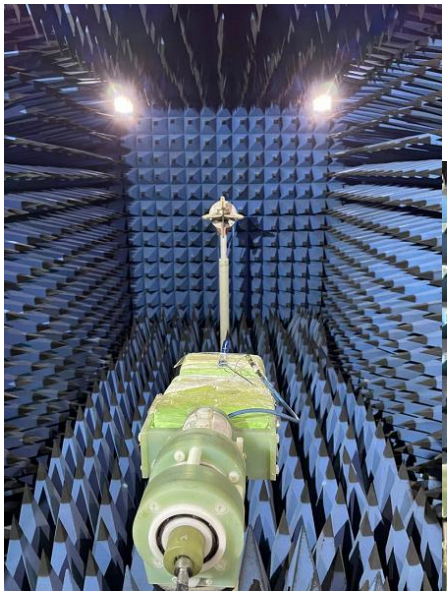
Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

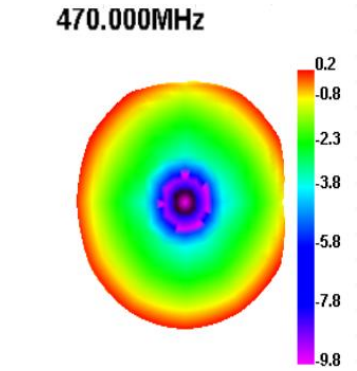
The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

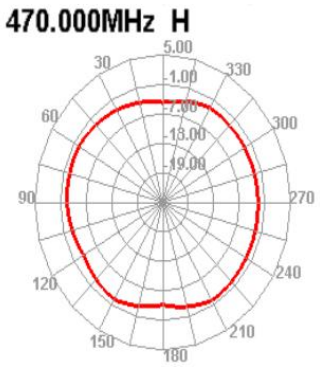
Main performance ：

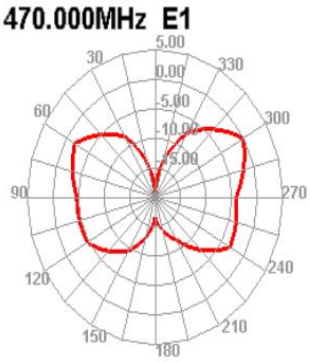
Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)

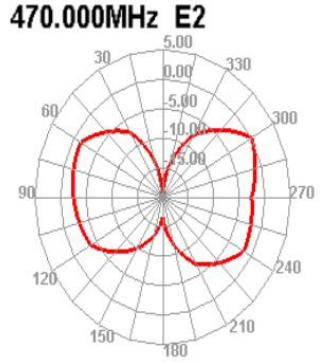


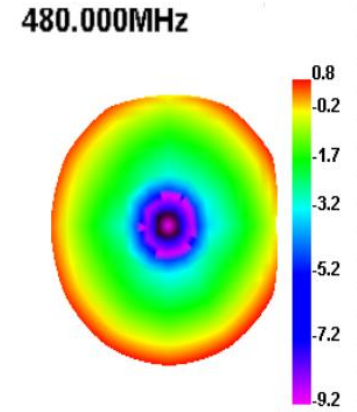
7. 2D、3DRaditation Pattern

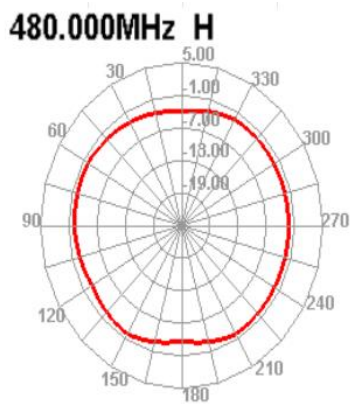


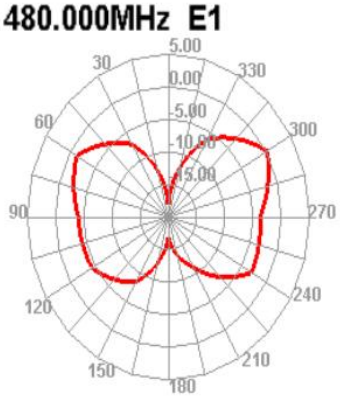


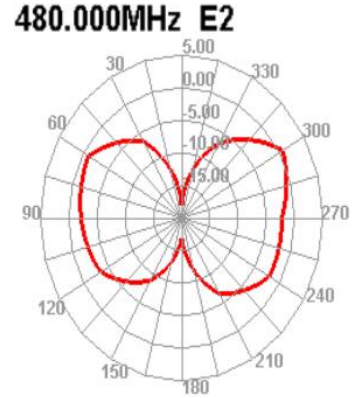


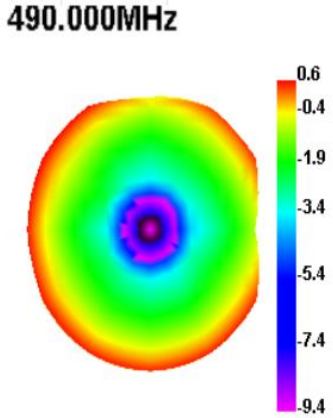


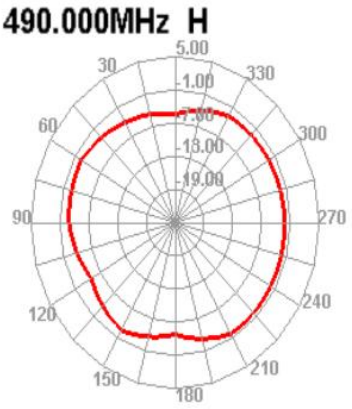


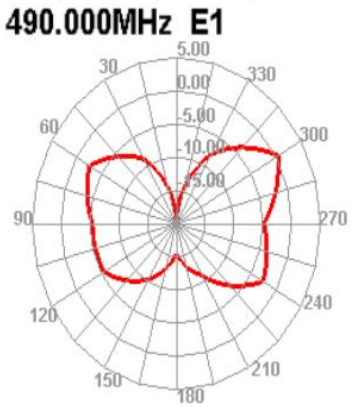


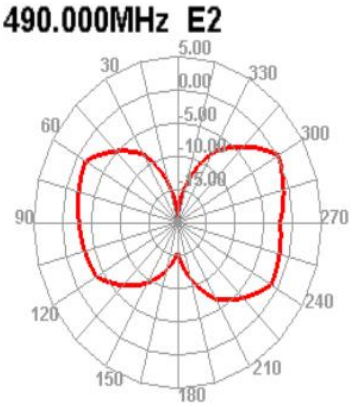






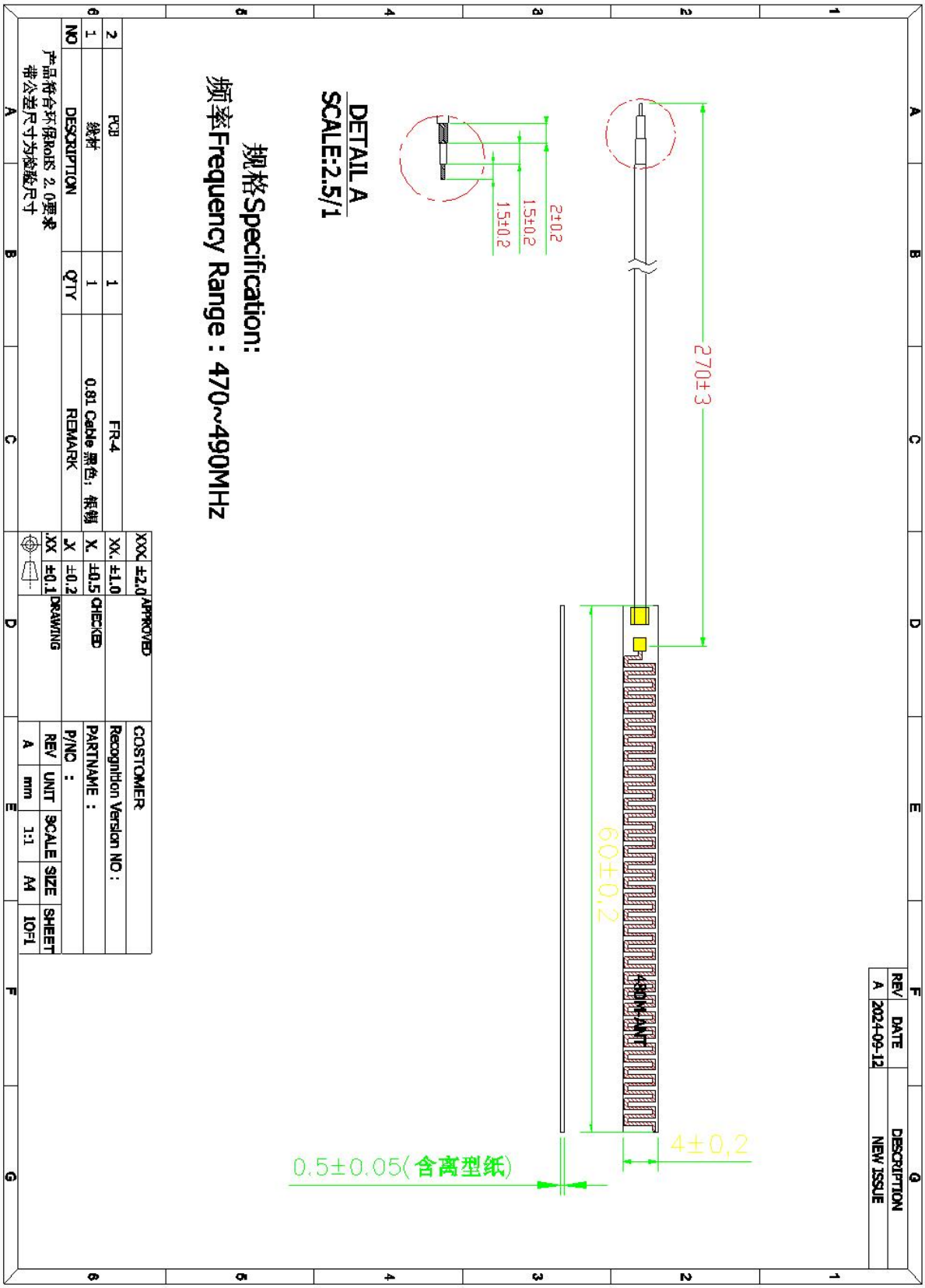






Freq	Effi	Gain
(MHz)	(%)	(dBi)
470	45.92	0.21
480	46.63	0.82
490	45.29	0.64

8. Antenna Dimensions



9.ROHS:

Antenna H007A01C01002 meets RoHS2.0 requirements.

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