

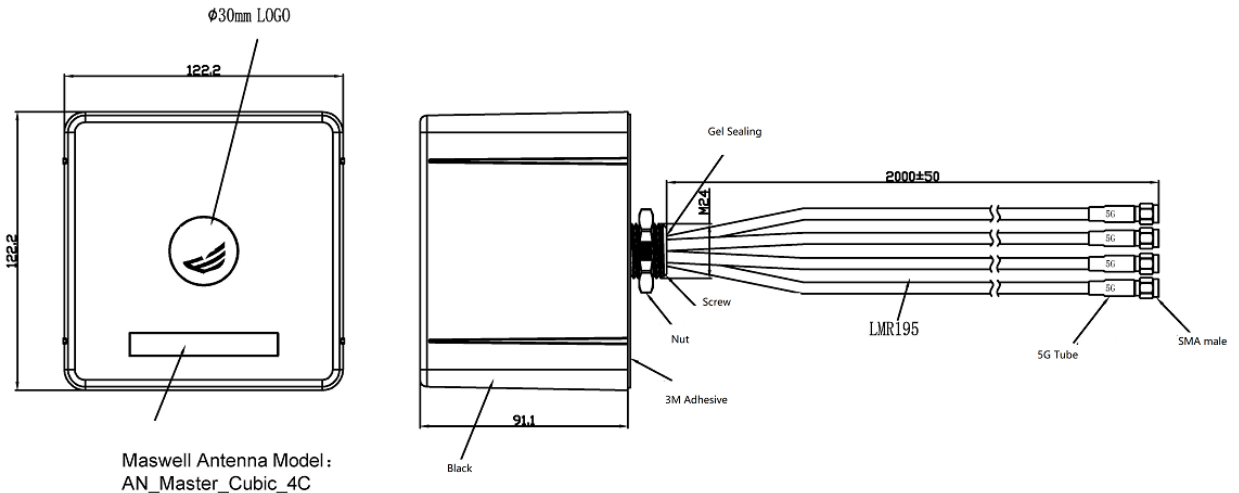


# Maswell Cellular 5G/4G 4X4 MIMO Antenna Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C



## Schematic Picture





# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

### Specifications

Item	Specifications	
Antenna 1: 5G/4G LTE/WiFi6E/UWB	Frequency Range	600MHz~8.0GHz
	Polarization	Linear
	Gain	Up to 6.0dBi (20cm Cable Length)
	Radiation Pattern	Omni-directional
	V.S.W.R	average 3.0
	Efficiency	>50%
Antenna 2: 5G/4G LTE/WiFi6E/UWB	Frequency Range	600MHz~8.0GHz
	Polarization	Linear
	Gain	Up to 6.0dBi (20cm Cable Length)
	Radiation Pattern	Omni-directional
	V.S.W.R	average 3.0
	Efficiency	>50%
Antenna 3: 5G/4G LTE/WiFi6E/UWB	Frequency Range	600MHz~8.0GHz
	Polarization	Linear
	Gain	Up to 6.0dBi (20cm Cable Length)
	Radiation Pattern	Omni-directional
	V.S.W.R	average 3.0
	Efficiency	>50%
Antenna 4: 5G/4G LTE/WiFi6E/UWB	Frequency Range	600MHz~8.0GHz
	Polarization	Linear
	Gain	Up to 6.0dBi (20cm Cable Length)
	Radiation Pattern	Omni-directional
	V.S.W.R	average 3.0
	Efficiency	>50%



# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

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### Specifications

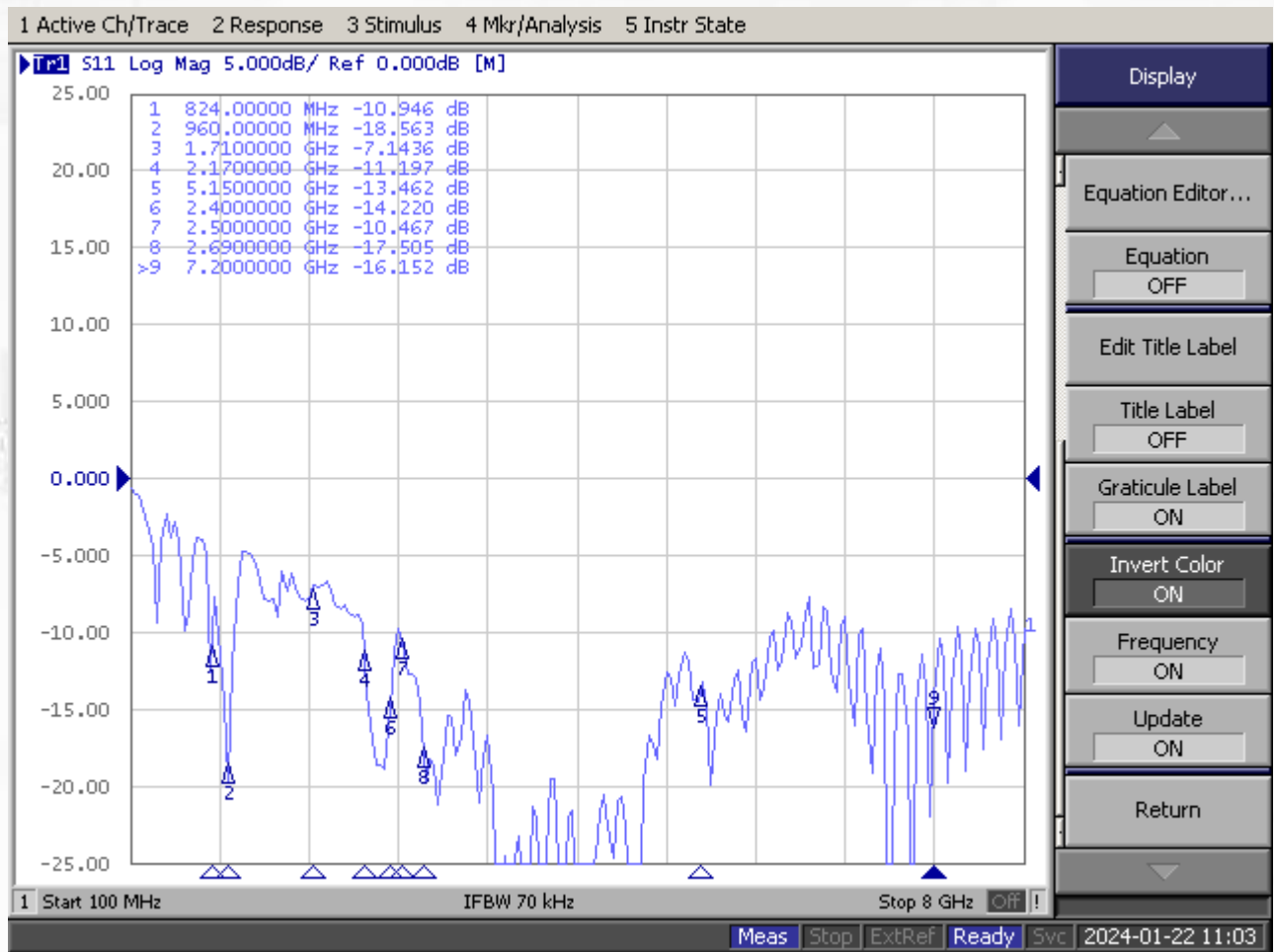
Item		Specifications
Mechanical	Dimension	121mm *121mm*91mm
	Cable	LMR195 equivalent 2m or Customised
	Connector	SMA male
Environmental	Operating Temperature	-40°C~+85°C
	Waterproof Grade	IP67 (EURO: EN 60529:1991+A1:2000+A2:2013 +AC:2019 CHINA: GB/T4208-2017)
	Radome Material	ASA/ (UL Yellow Card)
	UV Exposure & Water Immersion	F1 (UL746C) UV stabilized
	Relative Humidity	Up to 95%
	Vibration	10 to 55Hz with 1.5mm amplitude 2hours
	Environmentally Friendly	ROHS Compliant

# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

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### S11 Reflection Coefficient Antenna 1

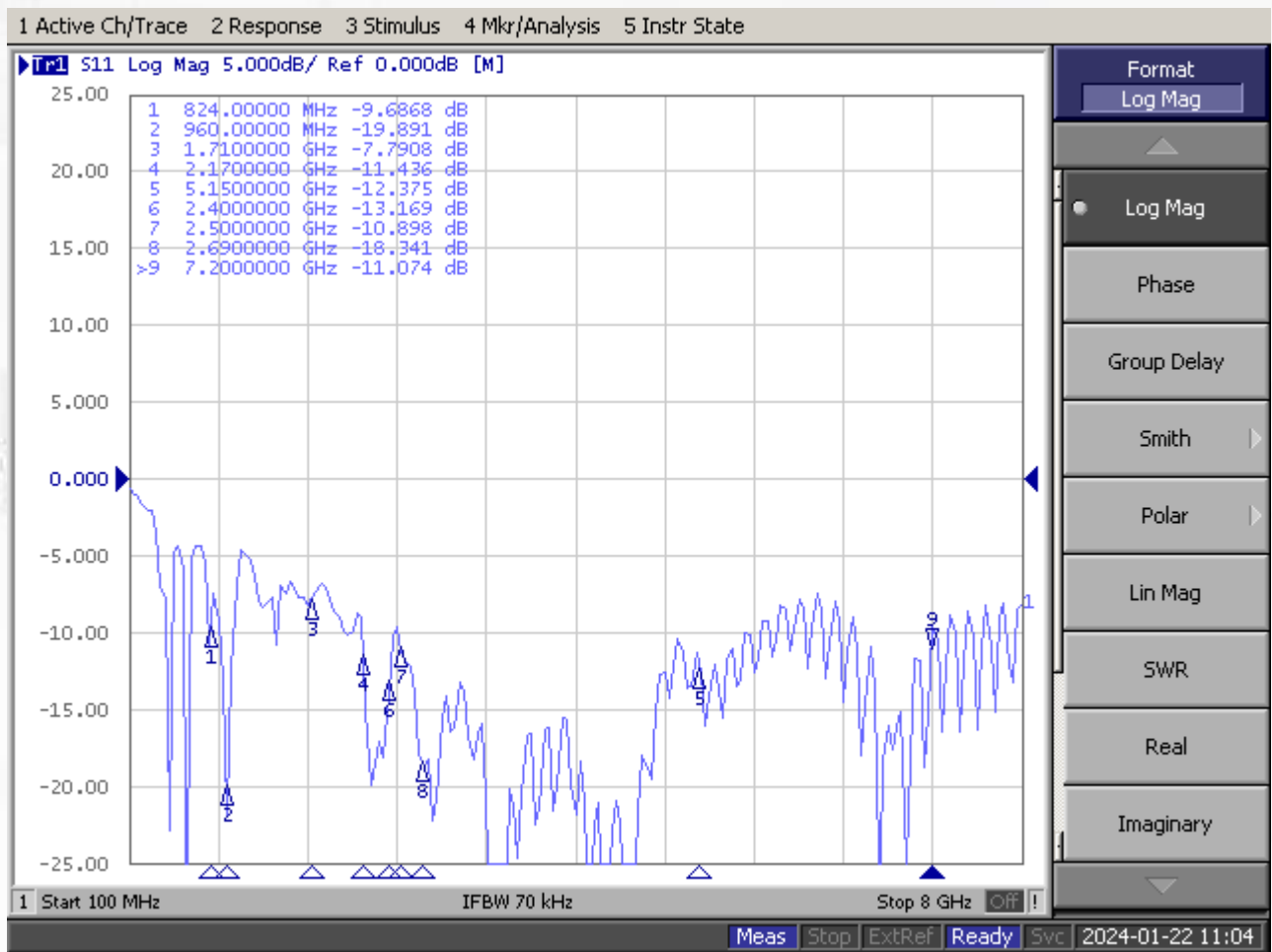


# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

### S11 Reflection Coefficient Antenna 2

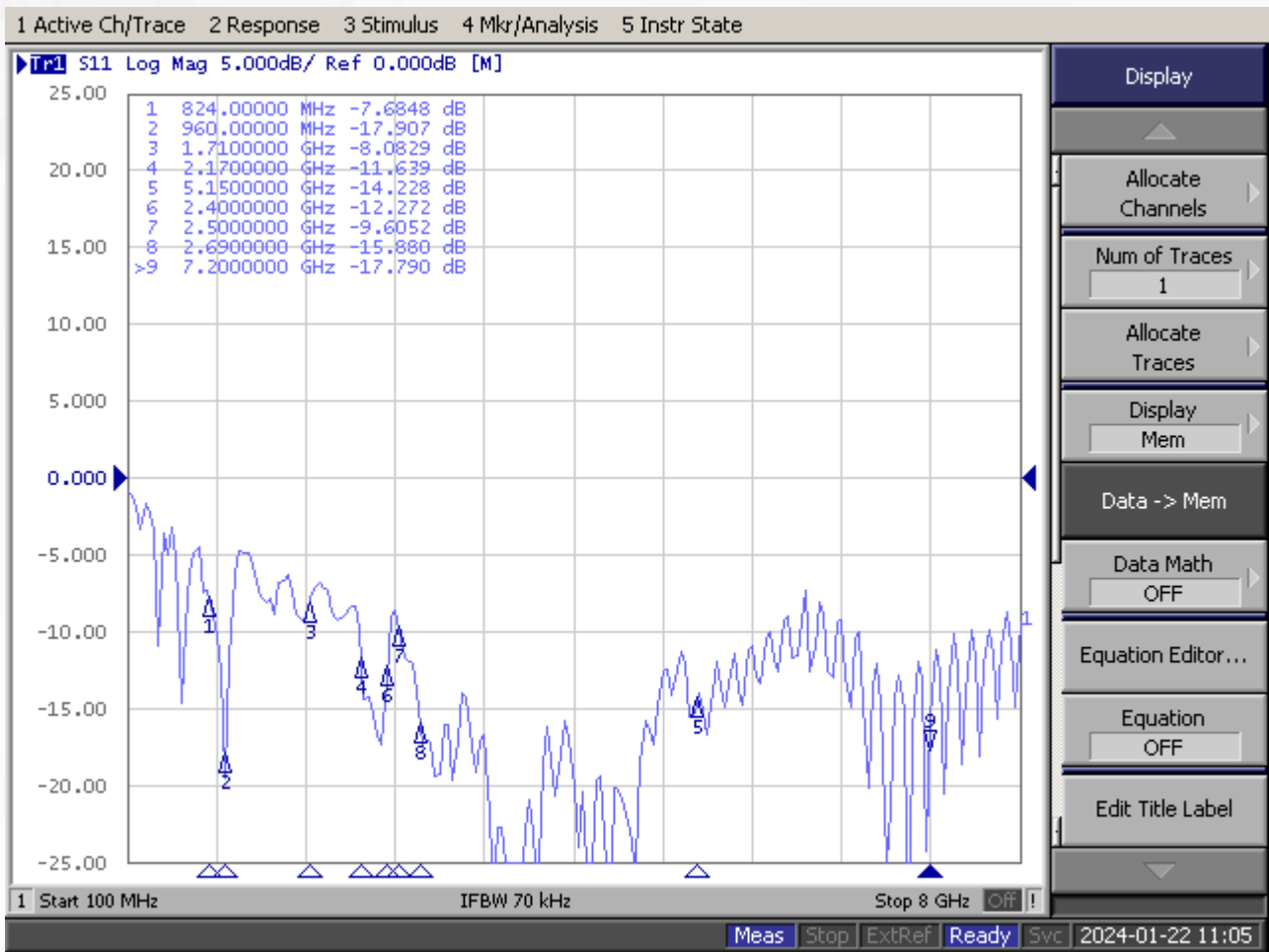


# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

### S11 Reflection Coefficient Antenna 3



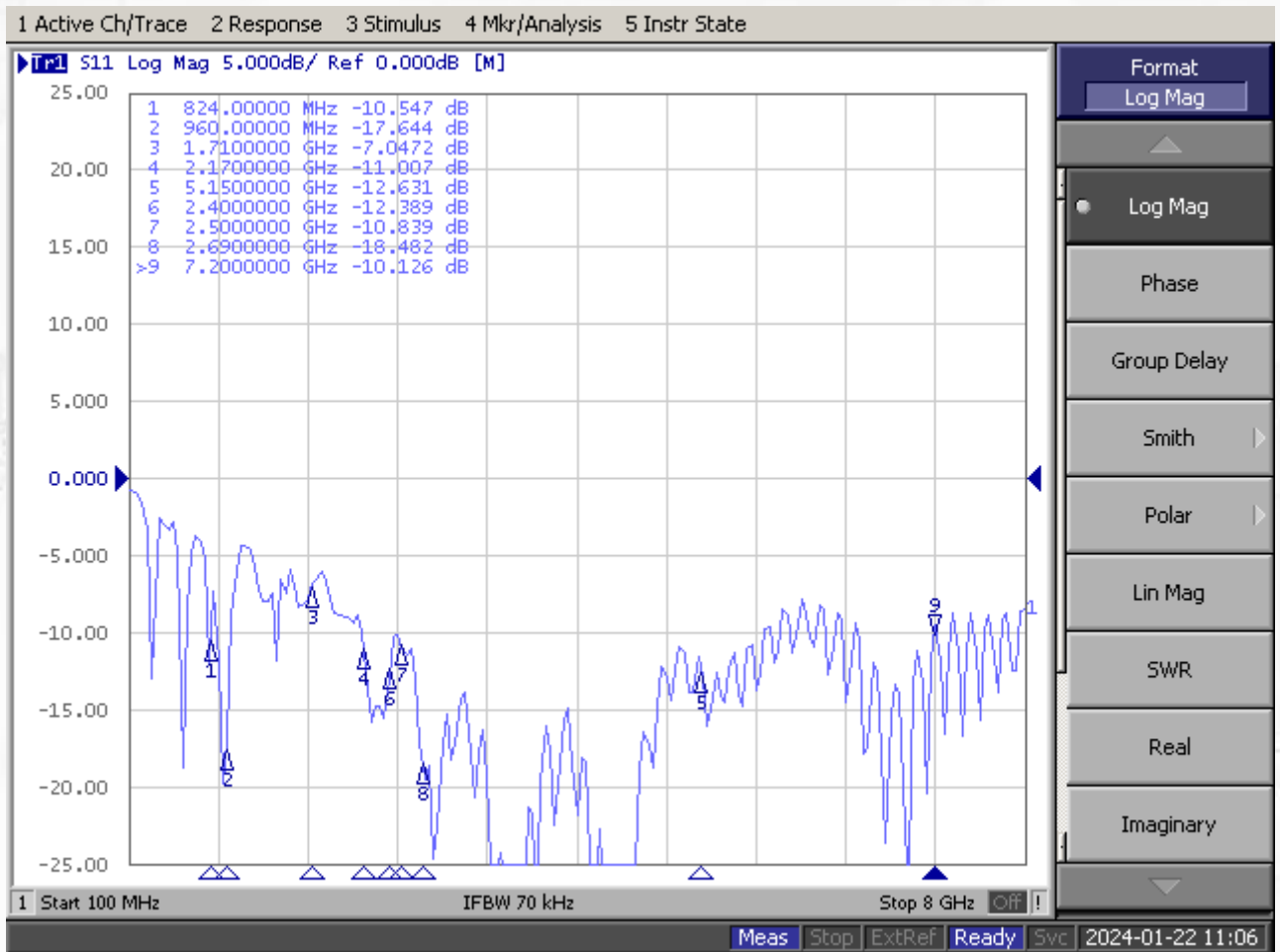


# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

### S11 Reflection Coefficient Antenna 4

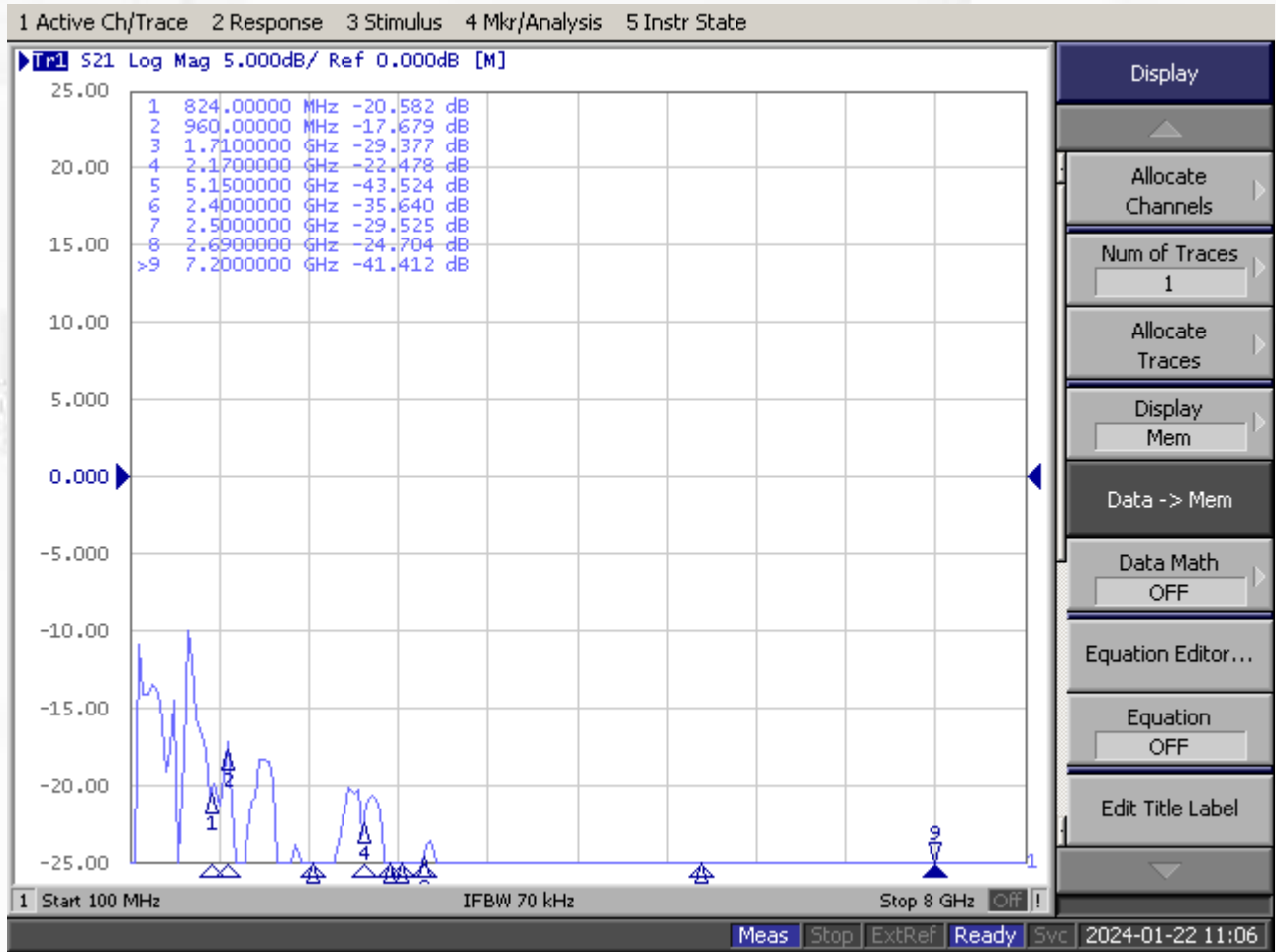


# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

### Isolation Port 1/Cable 1 to Port 2/Cable 2



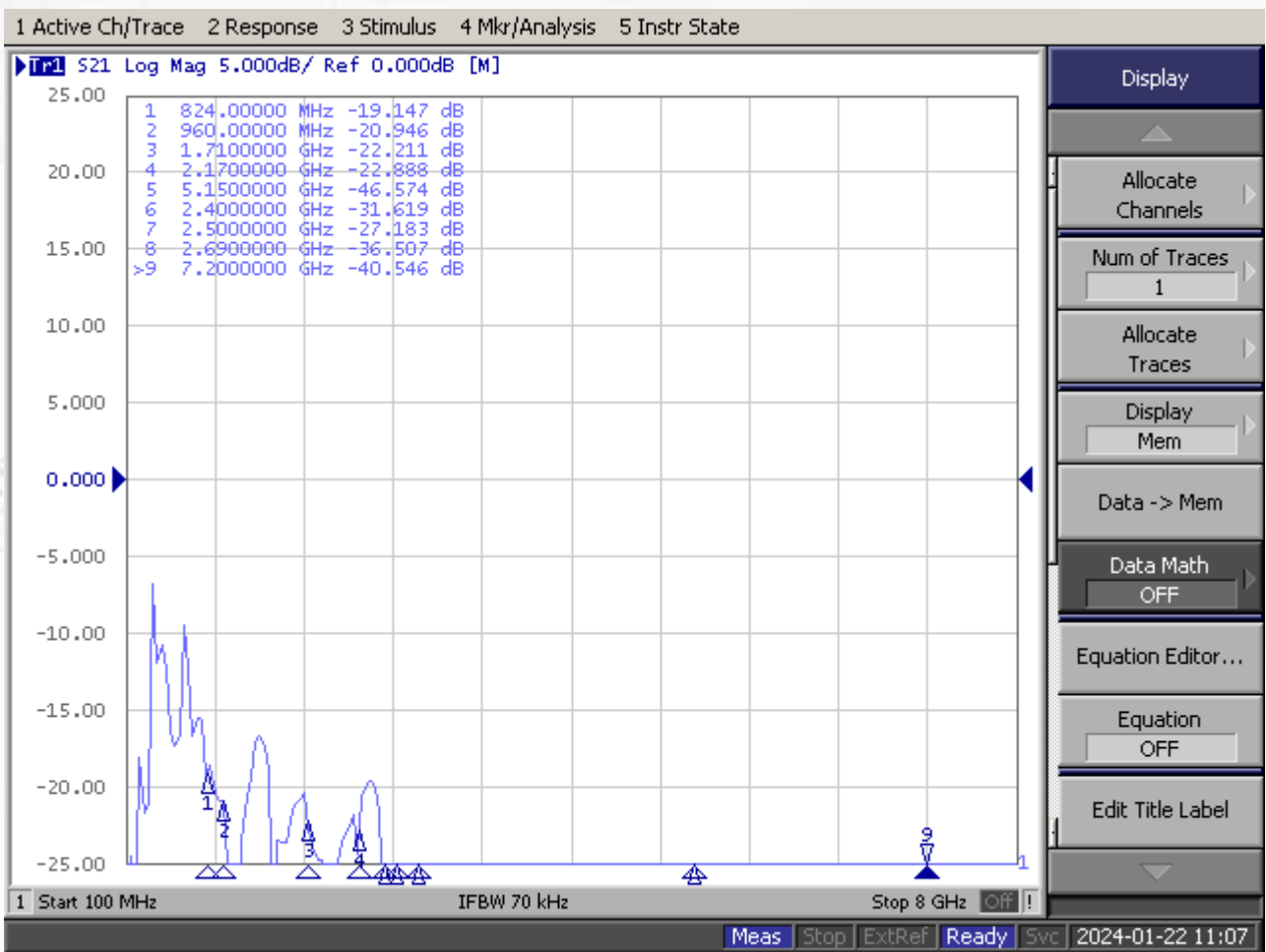


# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

### Isolation Port 1/Cable 1 to Port 3/Cable 3

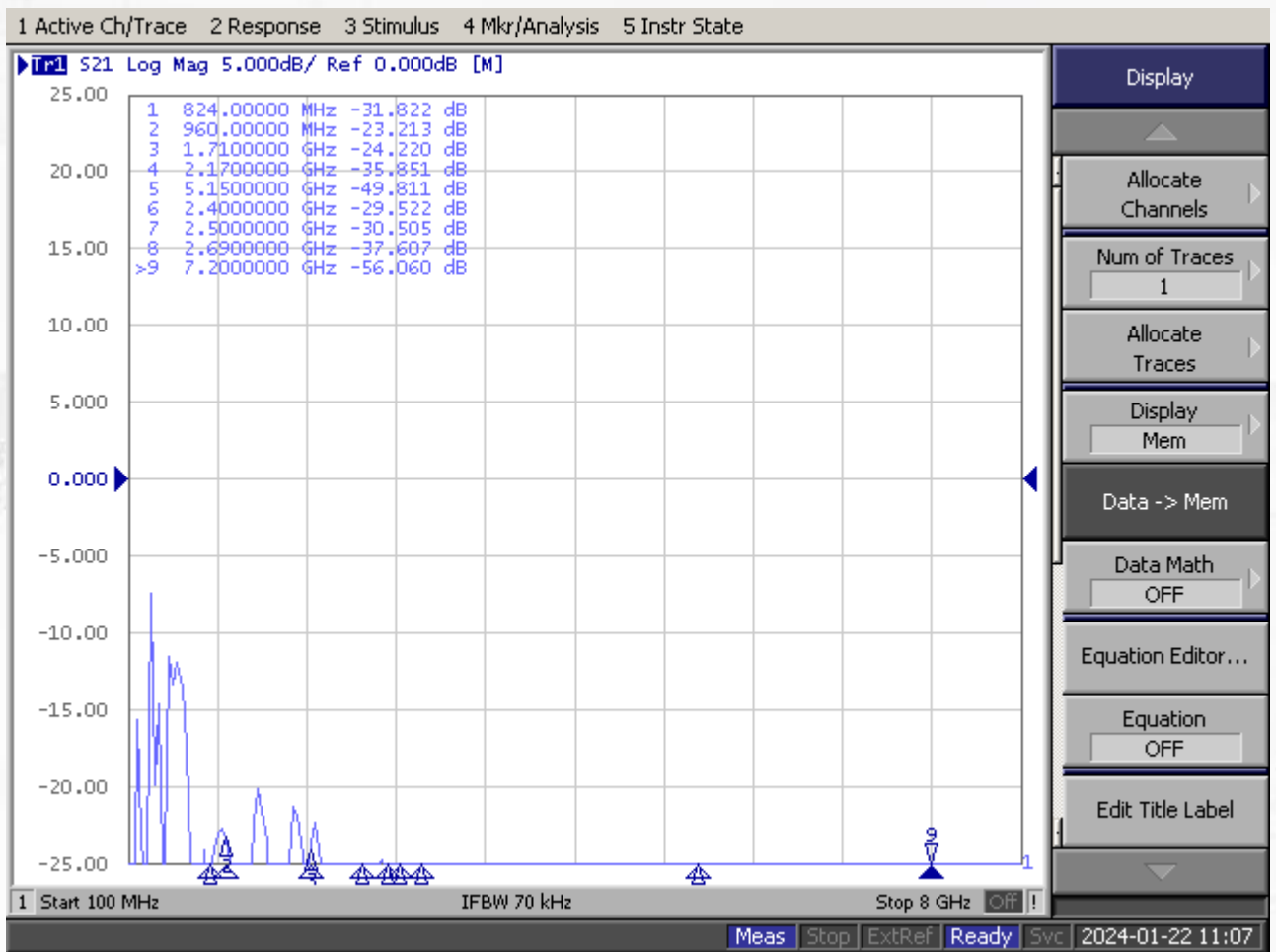


# Maswell Cellular 5G/4G 4X4 MIMO Antenna

## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

### Isolation Port 1/Cable 1 to Port 4/Cable 4

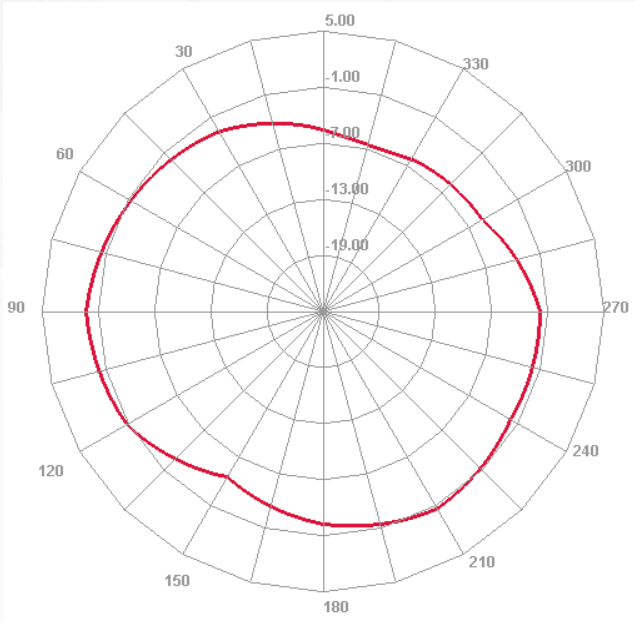


# Maswell Cellular 5G/4G 4X4 MIMO Antenna

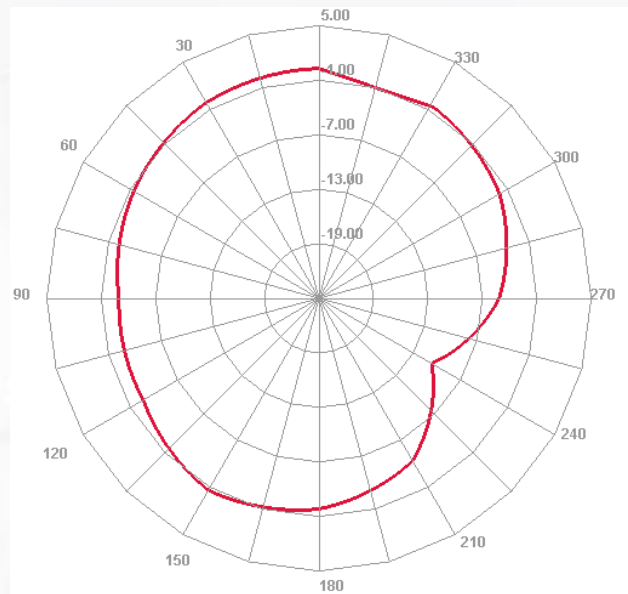
## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

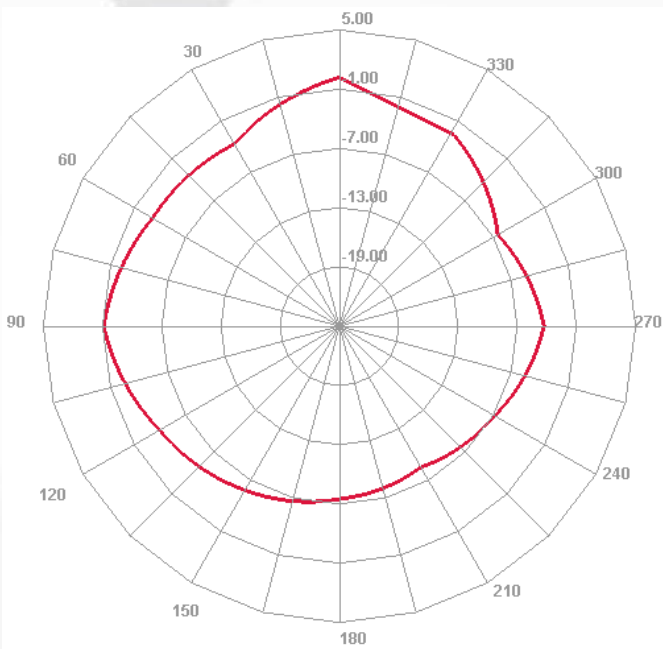
### Radiation Pattern



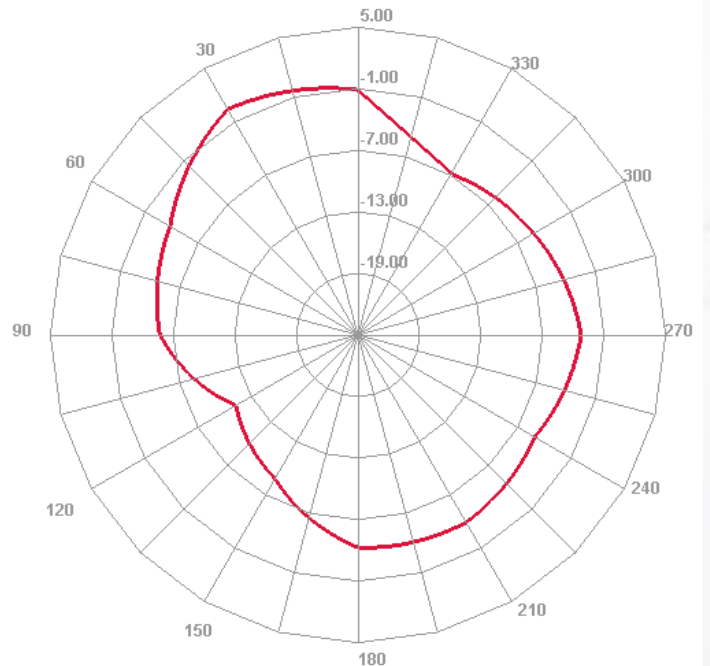
900 MHz E plane



900 MHz H plane



1800 MHz E plane



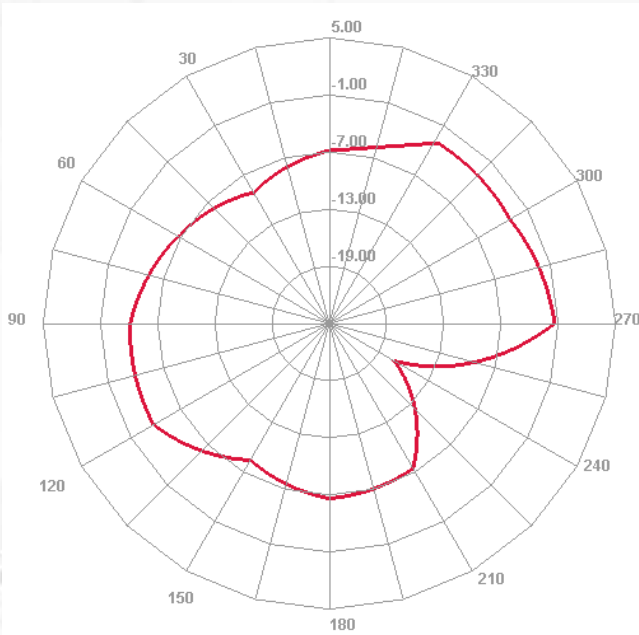
1800 MHz H plane

# Maswell Cellular 5G/4G 4X4 MIMO Antenna

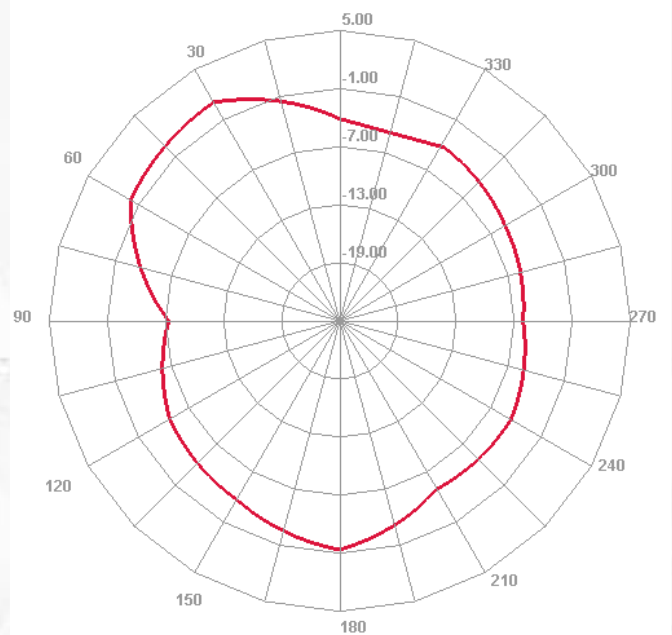
## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

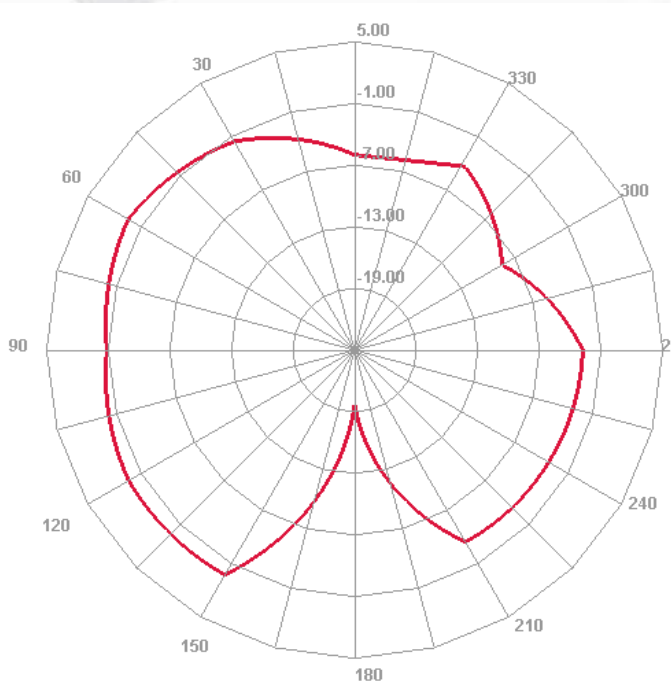
### Radiation Pattern



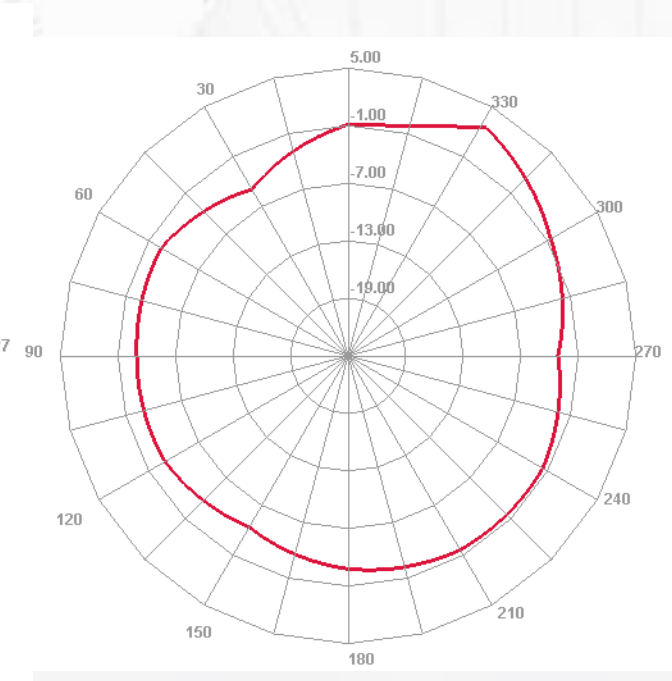
2600 MHz E plane



2600 MHz H plane



3500 MHz E plane



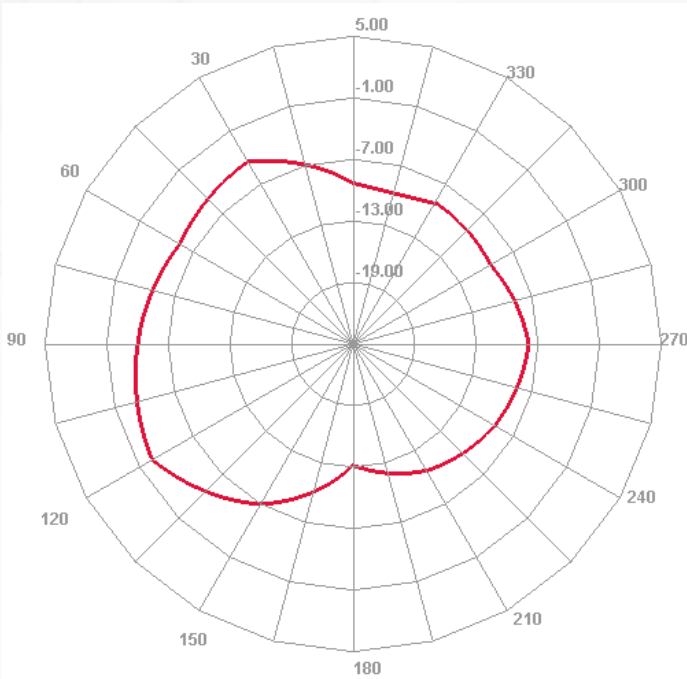
3500 MHz H plane

# Maswell Cellular 5G/4G 4X4 MIMO Antenna

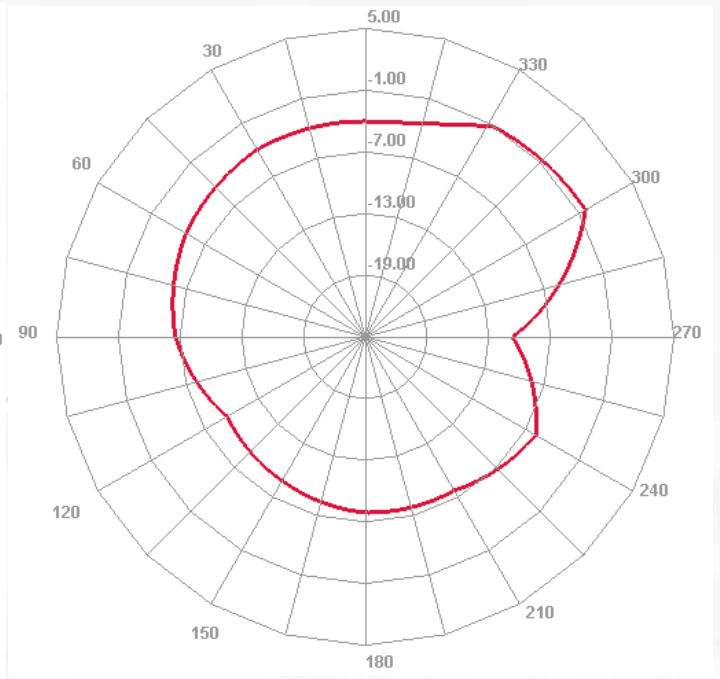
## Screw Mount IP67 UV stabilized

AN\_Master\_Cubic-4C

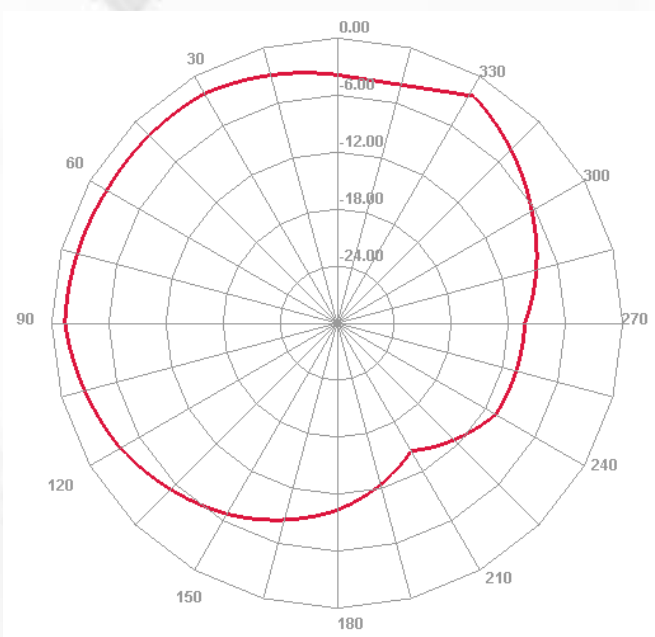
### Radiation Pattern



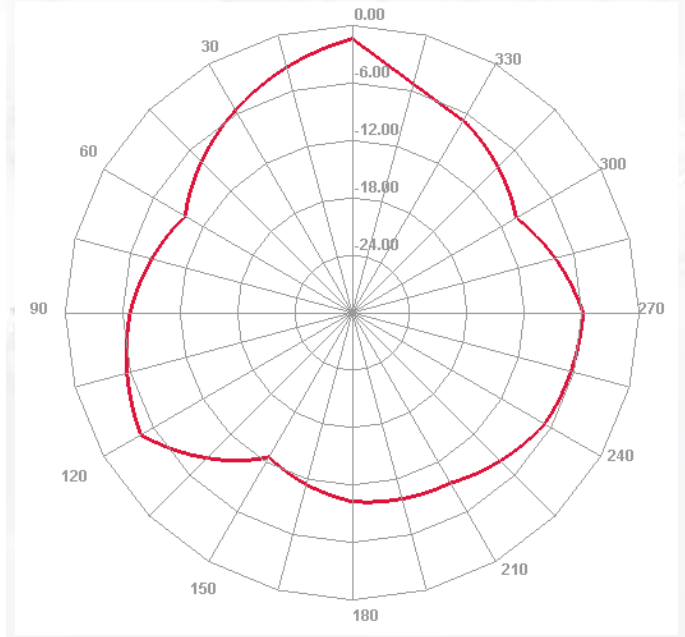
4800 MHz E plane



4800 MHz H plane



7100 MHz E plane



7100 MHz H plane



**TEST REPORT**

EN 60529

**Degrees of protection provided by enclosures(IP code)**

Report reference No..... : CTB231113016Q

Date of issue..... : 2023-11-16

**Testing laboratory**

Name Shenzhen CTB Testing Technology Co., Ltd.

Address..... : 1&amp;2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

Testing location..... : Same as above

**Client**

Applicant..... : Suzhou Maswell Communication Technology Co.Ltd

Address..... : Room 403,Building 1,No.88 Zhenbei Road,High-tech District,Suzhou 215153,Jiangsu,China

**Test specification**

Standard..... : EN 60529:1991+A1:2000+A2:2013+AC:2019

Procedure deviation..... : N/A

Non-standard test method.... : N/A

Object under test..... : Maswell MIMO Cubic Antenna Series

Model/Type reference..... : AN\_Master\_Cubic\_4C/AN\_Master\_Cubic\_2C2W/AN\_Master\_Cubic\_4W and Variants

Others Model..... : /

Trade mark..... : Maswell

Manufacturer..... : Suzhou Maswell Communication Technology Co.Ltd

Address..... : Room 403,Building 1,No.88 Zhenbei Road,High-tech District,Suzhou 215153,Jiangsu,China

IP degrees..... : IP67

**Possible test case verdicts**

- test case does not apply to the test object..... : N/A(Not Applicable)

- test object does meet the requirement..... : P(Pass)

- test object does not meet the requirement..... : F(Fail)

Date of receipt of test item..... : 2023-11-10

Date(s) of performance of tests..... : 2023-11-13 to 2023-11-15

Laboratory sample number..... : 2231110007-1,14





## Model PW-957(+)(f1)

File Number: E56070



### COMPANY

#### CHI MEI CORPORATION

No 398 Sec 1 Zhongzheng Rd  
Rende District  
Tainan City, 717010 Taiwan

### MODEL INFO

PW-957(+)(f1)

Acrylonitrile Styrene Acrylate (ASA) "KIBILAC", furnished as pellets

(f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(+) – Indicate 0~0.5% acid scavengers.

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
<b>Flammability</b>		ANSI/UL 94
1.5 mm, Color: ALL	HB	
3.0 mm, Color: ALL	HB	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
<b>Flammability</b>		IEC 60695-11-10
1.5 mm, Color: ALL	HB75	
3.0 mm, Color: ALL	HB40	
ELECTRICAL PROPERTIES	VALUE	TEST METHOD
<b>Hot-wire Ignition (HWI)</b>		UL 746A
1.5 mm	PLC 4	
3.0 mm	PLC 3	
<b>High Amp Arc Ignition (HAI)</b>		UL 746A
1.5 mm	PLC 0	

3.0 mm	PLC 0	
<b>Comparative Tracking Index (CTI)</b>	PLC 0	UL 746A
<b>High Voltage Arc Tracking Rate (HVTR)</b>	PLC 3	
<b>High Voltage, Low Current Arc Resistance</b>	PLC 6	
<b>THERMAL PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
<b>Relative Thermal Index - Electrical Strength</b>		UL 746B
1.5 mm	90 °C	
3.0 mm	90 °C	
<b>Relative Thermal Index - Mechanical Impact</b>		UL 746B
1.5 mm	90 °C	
3.0 mm	90 °C	
<b>Relative Thermal Index - Mechanical Strength</b>		UL 746B
1.5 mm	95 °C	
3.0 mm	95 °C	
<b>PHYSICAL PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
<b>UV Exposure &amp; Water Immersion</b>	f1	UL 746C

Report Date: 2006-08-31

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