

Antenna Specifications

Design Specifications	Typical	Units
Antenna type	frame LDS+foam	
working Frequency	1575.42MHz & 2400-2500MHz	
Gain	【GPS :-1.18; WIFI: 3.06 ~ 3.57】	dBi
Antenna efficiency	【GPS:28.84; WIFI: 50.08~60.31】	%
VSWR	<11	
Polarization	Linear polarization	
Axial Ratio	When the antenna is circular polarization, note the axial ratio in the working bandwidth	N/A
Radiation pattern	omnidirectional	
impedance	50 ohm	
Power handling	33	dBm
Interface	Spring foot contact	
Overall dimensions	See drawing section	
Weight	no requirement	
Operatin Temp	-30 ----- 70	°
Storing Temp	-30 ----- 70	°

407D Law Enforcement Camera WD Antenna Specification

1、 Indication

The report mainly provides the test status of various electrical performance parameters of the 407D Law Enforcement Camera WD Antenna. (As shown in Figure 1 below)

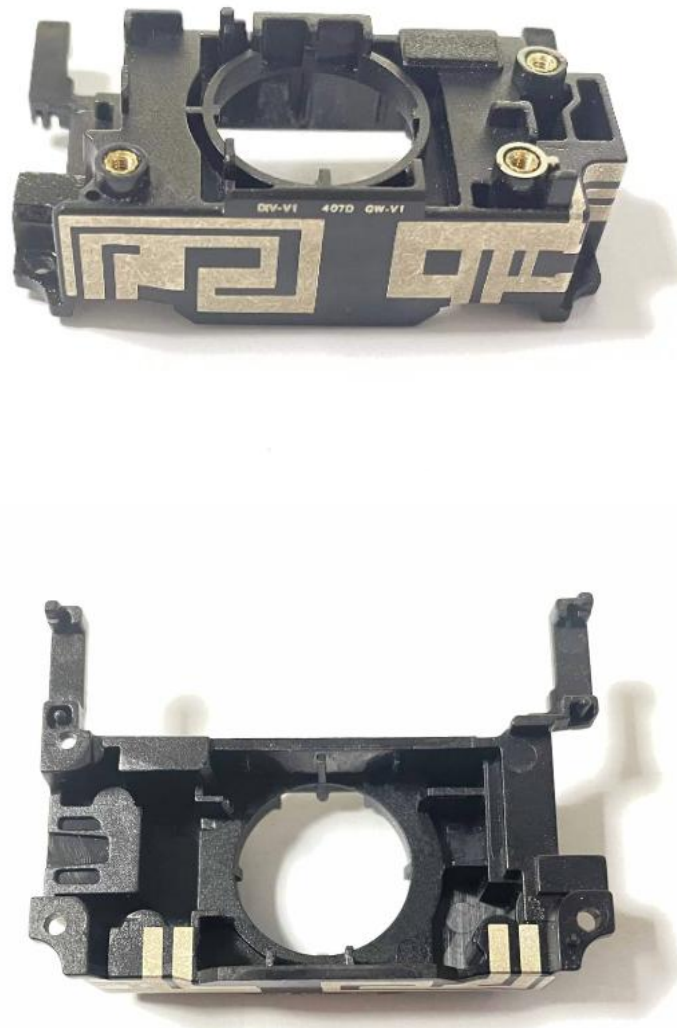


Figure 1 407D Law Enforcement Camera WD Antenna

2、 Electrical Performance

2.1 Specification standard

407D Law Enforcement Camera WD Antenna working band is at 1575.42MHz & 2400-2500MHz.

2.2 Antenna matching circuit

407D Law Enforcement Camera WD Antenna matches the original matching circuit.

2.3 VSWR Test

A. Test setup

VSWR measurements (S11) were performed using Agilent E5071B Network Analyzer and the previously described test fixture. A ferrite-loaded coaxial cable was used to mitigate surface currents on the outside of the cabling. The testing was performed in free space ETS AMP8500S chamber.

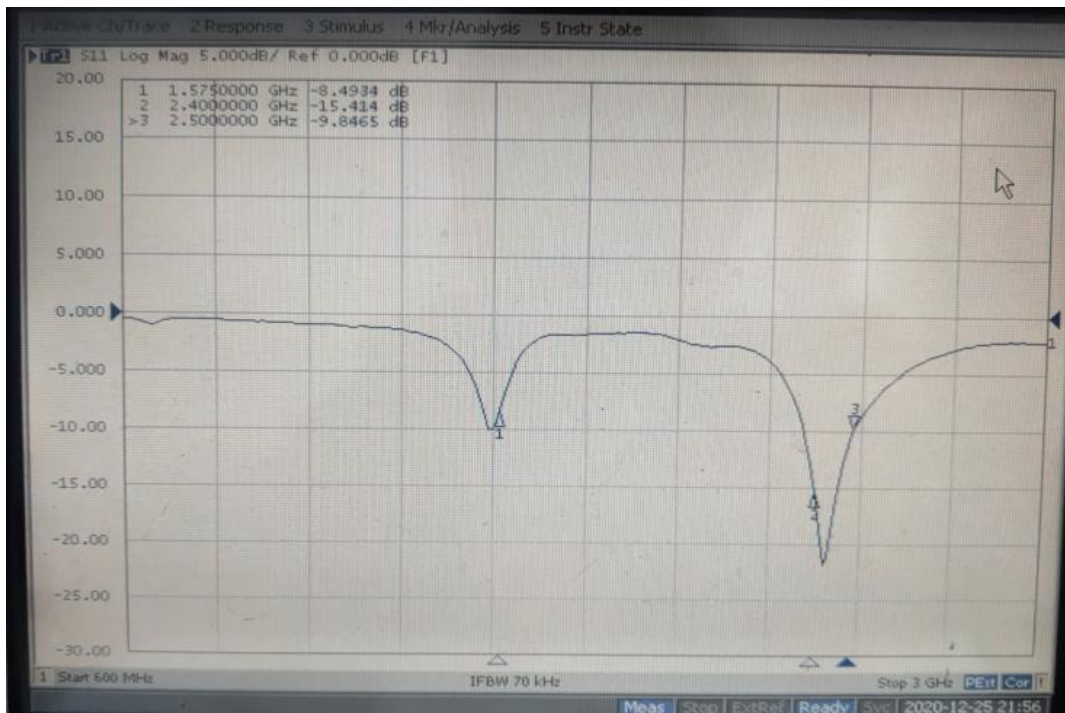
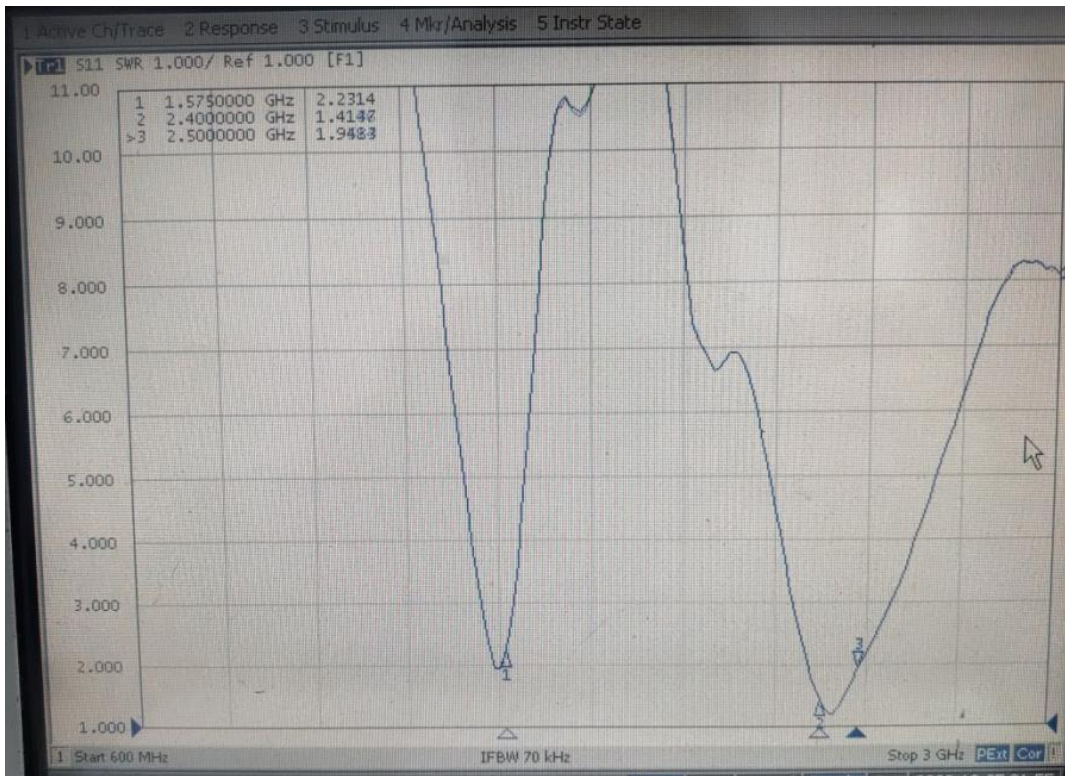
B. VSWR

The table below shows the standing wave ratio value of the edge frequency of the working band of 407D Law Enforcement Camera GWD Antenna matches the original matching circuit.

Frequency band	frequency (MHz)	VSWR
GPS&WIFI	1575.42	2.23
	2400	1.41
	2500	1.94

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GPS&WIFI:

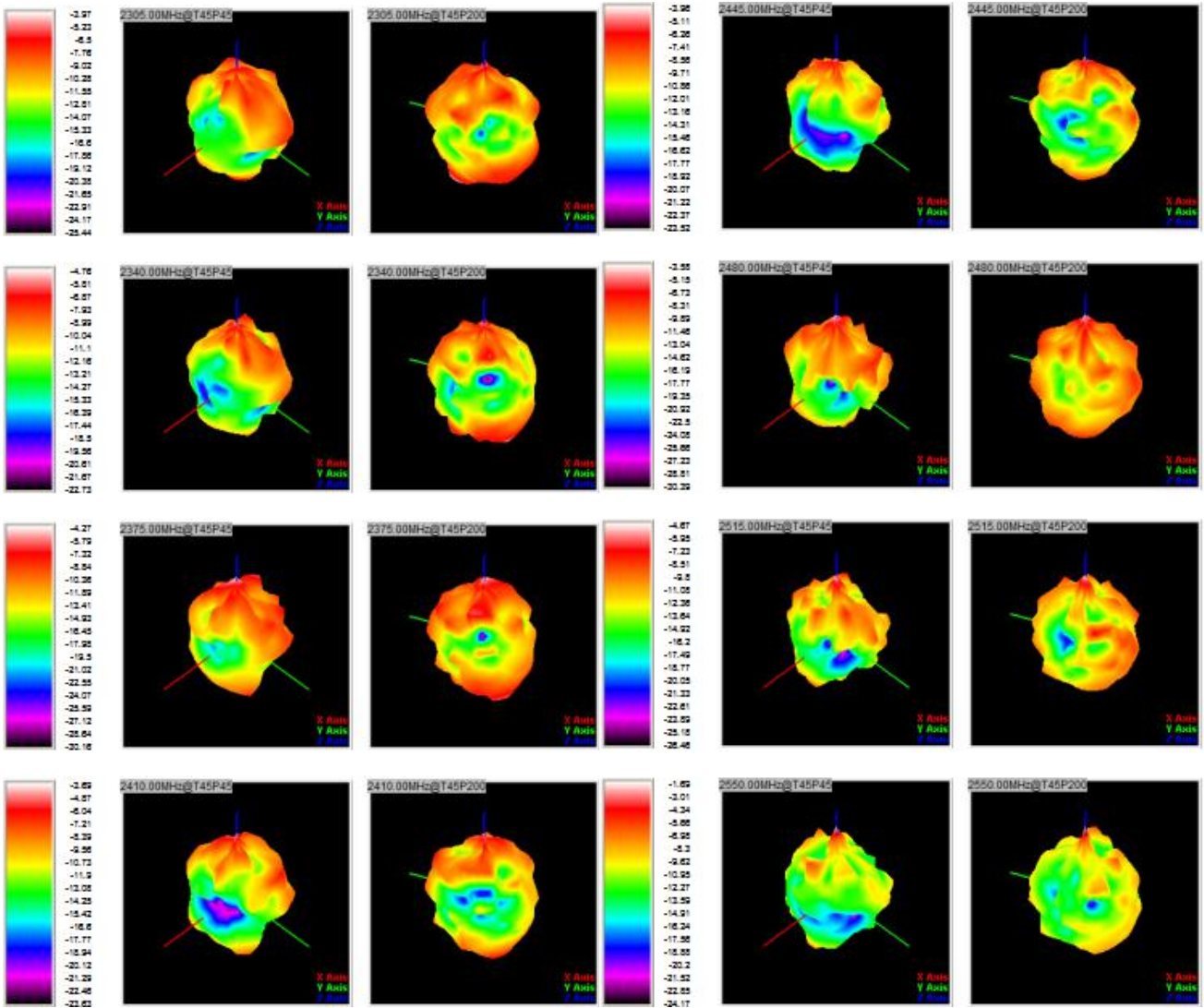


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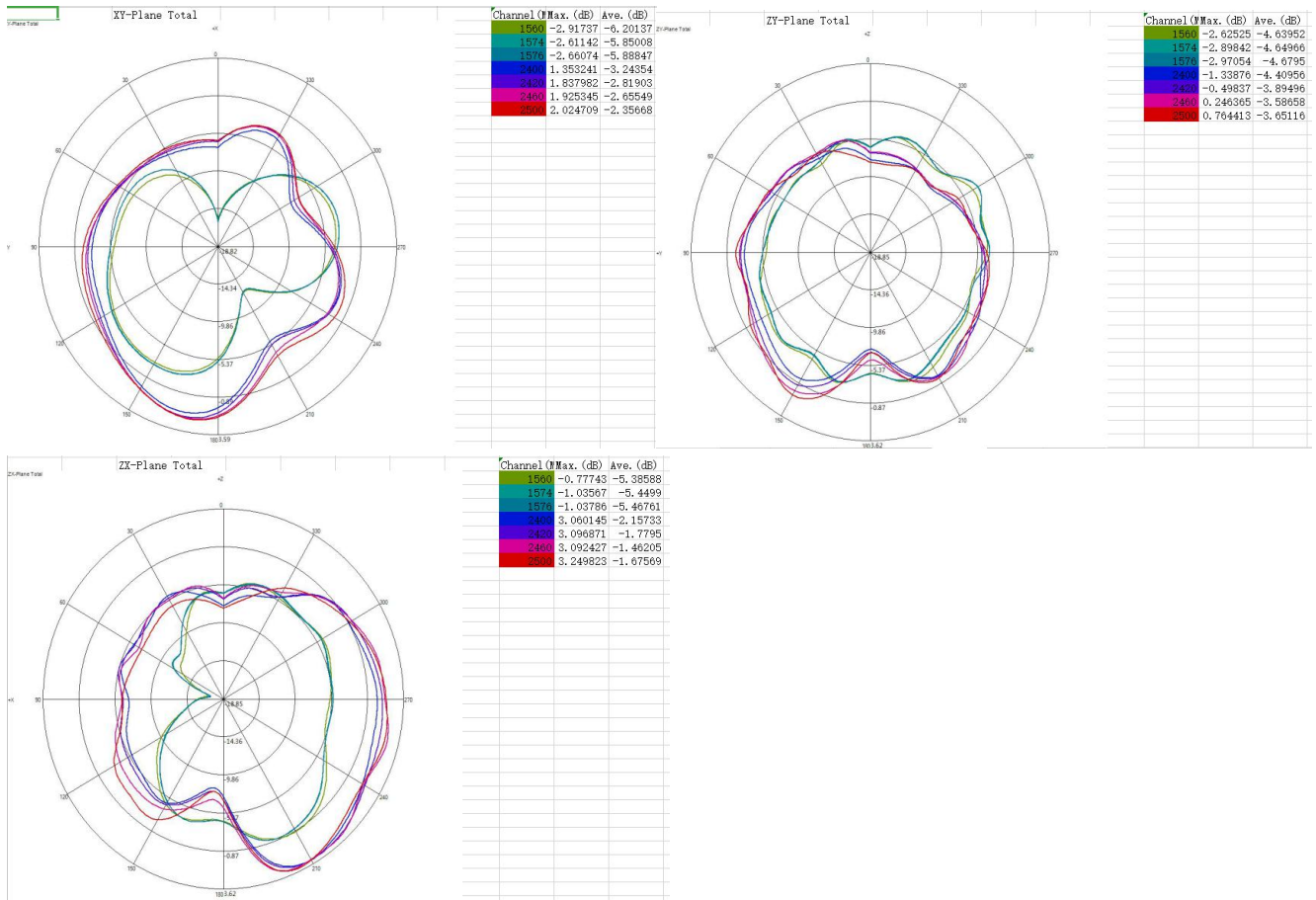
GPS&WIFI:

Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
1550	-0.40	-5.29	29.55
1552	-0.46	-5.31	29.42
1554	-0.54	-5.33	29.32
1556	-0.62	-5.33	29.33
1558	-0.71	-5.33	29.31
1560	-0.78	-5.32	29.39
1562	-0.87	-5.33	29.29
1564	-0.95	-5.33	29.32
1566	-1.00	-5.33	29.30
1568	-1.04	-5.32	29.39
1570	-1.07	-5.31	29.47
1572	-1.12	-5.33	29.31
1574	-1.15	-5.36	29.11
1576	-1.18	-5.40	28.84
1578	-1.21	-5.46	28.46
1580	-1.27	-5.54	27.92
2400	3.06	-3.00	50.08
2410	3.13	-2.75	53.12
2420	3.19	-2.60	54.90
2430	3.25	-2.50	56.22
2440	3.28	-2.43	57.10
2450	3.36	-2.33	58.51
2460	3.34	-2.30	58.88
2470	3.30	-2.25	59.59
2480	3.29	-2.20	60.31
2490	3.46	-2.22	60.02
2500	3.57	-2.32	58.61

Antenna Specifications



GPS&WIFI:



3. Suggestion And Solution

This report is according to the customer provide 407D Law Enforcement Camera WD Antenna the final version of the electrical performance of antenna.

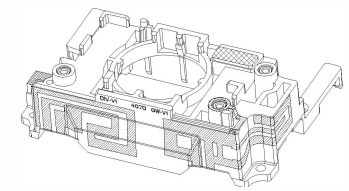
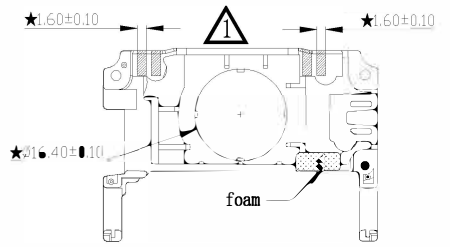
As can be seen from the above test data, this antenna provides better electrical performance.

We are looking forward to your confirmation. Thank you for your cooperation!

4. Appearance Drawing

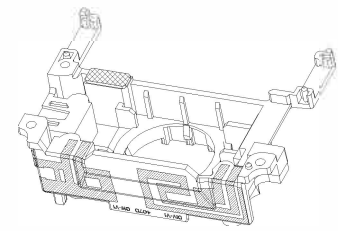
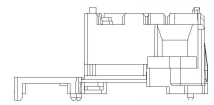
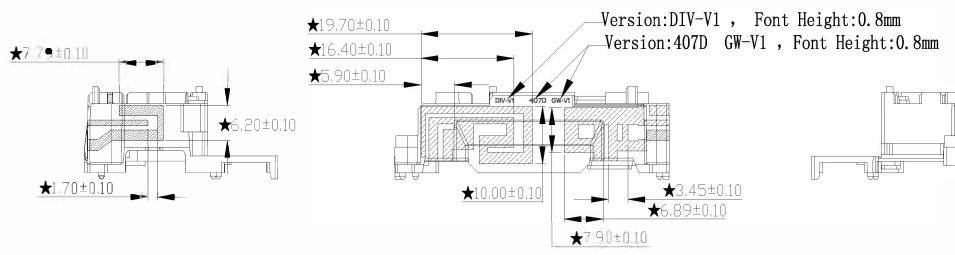
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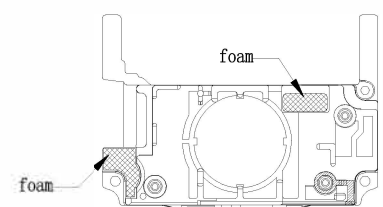
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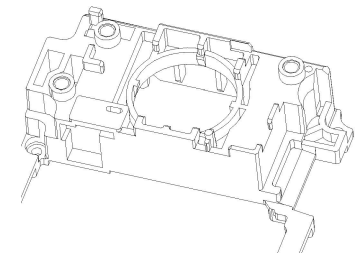
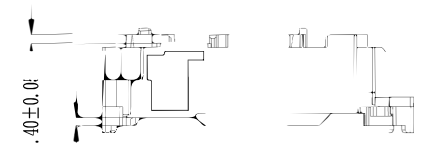
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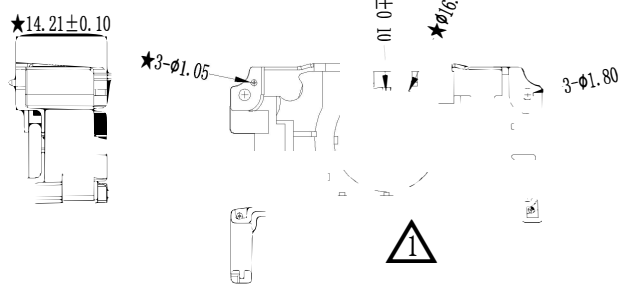
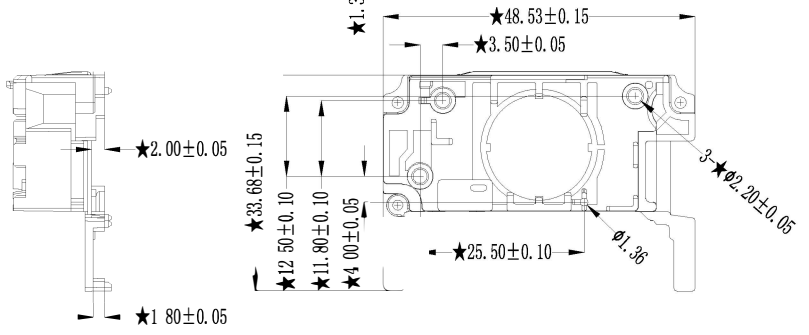
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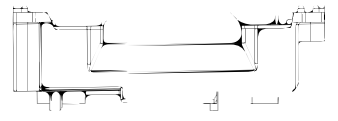
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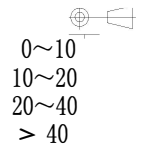
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