



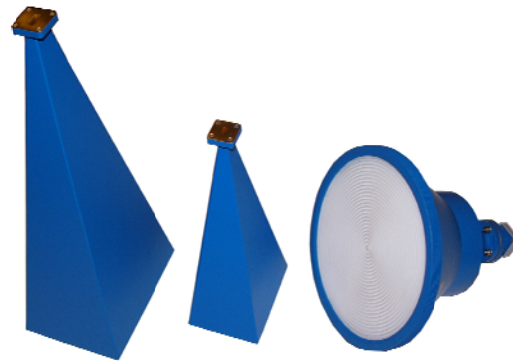
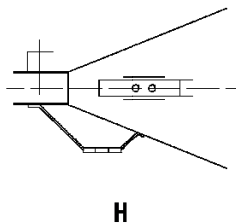
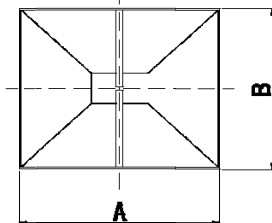
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The power beyond expectations

0.4~4.0GHz Double Ridge Horn Antenna

Electrical and Environmental Specifications:

| | |
|---------------------|-------------------|
| Frequency Range: | 0.4-4.0GHz |
| Antenna Gain: | 6-15dB (typ.) |
| Power: | 100W CW |
| VSWR: | 2.5 : 1 max. |
| Isolation: | 20dB min |
| Connector: | N-Female |
| Impedance: | 50 ohm |
| Operational Temp. : | -55°C~+85° C |
| Storage Temp. : | -55°C~+100° C |
| Dimension: | 20.5"x13.8"x16.5" |



Summary:

- . High power operational up to 100W CW
- . compacted package in high gain cross band.
- . Wide bandwidth, flat frequency response
- . MIL-E-5400 standard
- . Customized unit is available upon request.

PN: RWDRHAoGo4



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400~4000MHz dual ridge horn antenna

Polar diagram test report

1. The time, location and environment condition of the test

Temperature: 10°C, humidity: RH70%;

Darkroom space: 10m (L) x 6m (W) x 5m (H)

2. Product amount and Test item

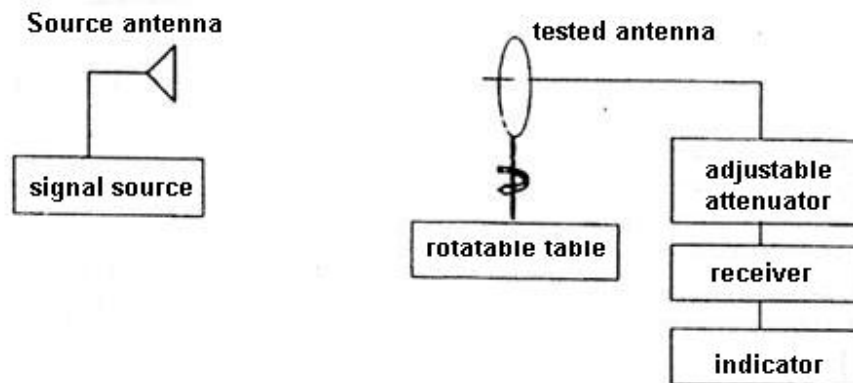
Test product: one 400~4000MHz dual ridge horn antenna.

Test item: antenna polar diagram

3. Test instrument and test diagram

Test instrument: antenna far-field test system (including Vector Network Analyzer HP 8753D, a rotatable table)

Test diagram: The test diagram of polar diagram



The test diagram of polar diagram

5. Test step

Test step of the antenna polar diagram:

- Connect the test instrument and the produce which is tested as shown above;
- Chose three frequency between the frequency range of the product(including the upper limit frequency and the lower frequency);

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- c. Set the frequency of the signal source as the upper frequency, and make the source antenna aim at the radiation direction of the tested antenna ;
- d. Make the tested antenna as the receiving antenna, and rotate it in the horizontal plane by step as the product specification when we need a horizontal polar diagram; the attenuator need to be adjusted base on the receiving signal strength so that the output value of the indicator of the receiver keep constant, write down the signal strength base on the attenuation of attenuator when the direction is different;
- e. Redo d above when change the frequency of the signal source;

Put the antenna in the vertical plane and redo d~e when we need the vertical polar diagram, and write down the signal strength of the different direction.

6. Test result

The test result of the polar diagram

400~4000MHz dual ridge horn antenna E and H ,400MHz,450 MHz,470 MHz,800MHz, 900MHz,1000MHz,1500MHz,2000MHz,2500MHz,3000MHz,3500MHz ,3600MHz,3700MHz,4000 MHz diagram(shown as below).

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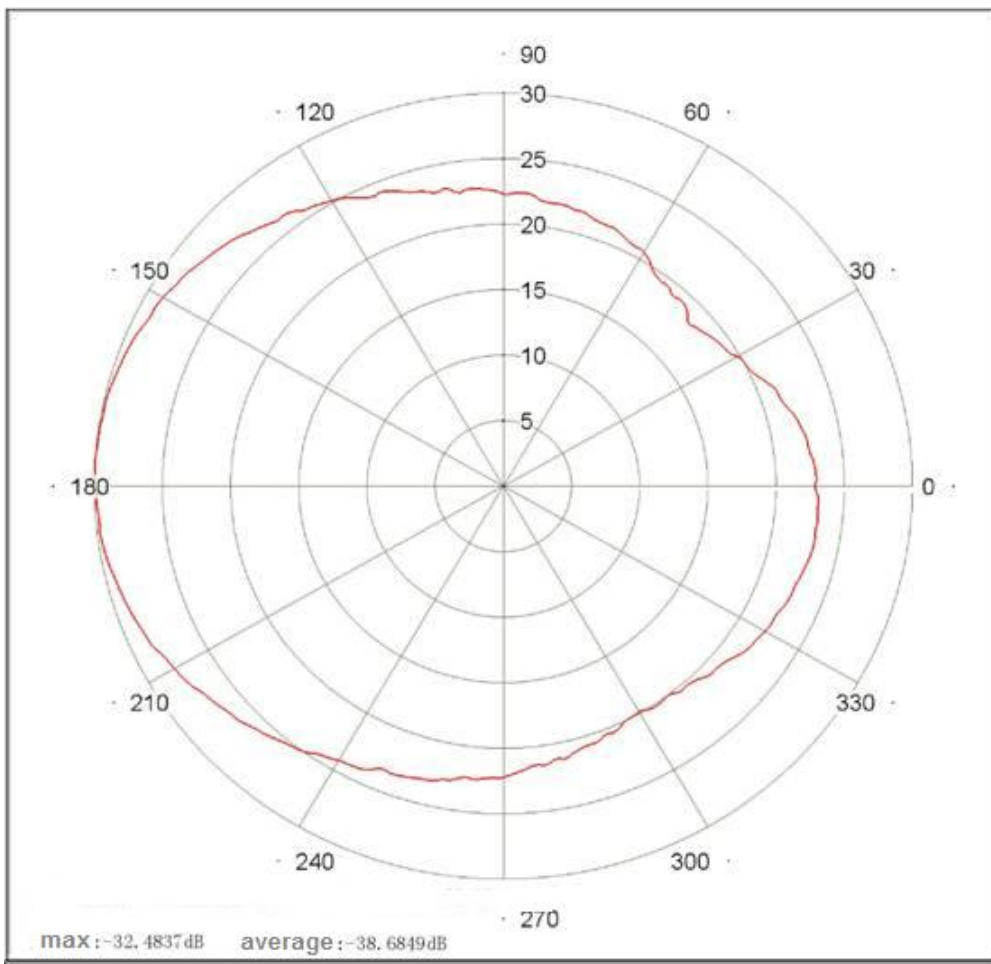
Sep 23th 2008



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Test system



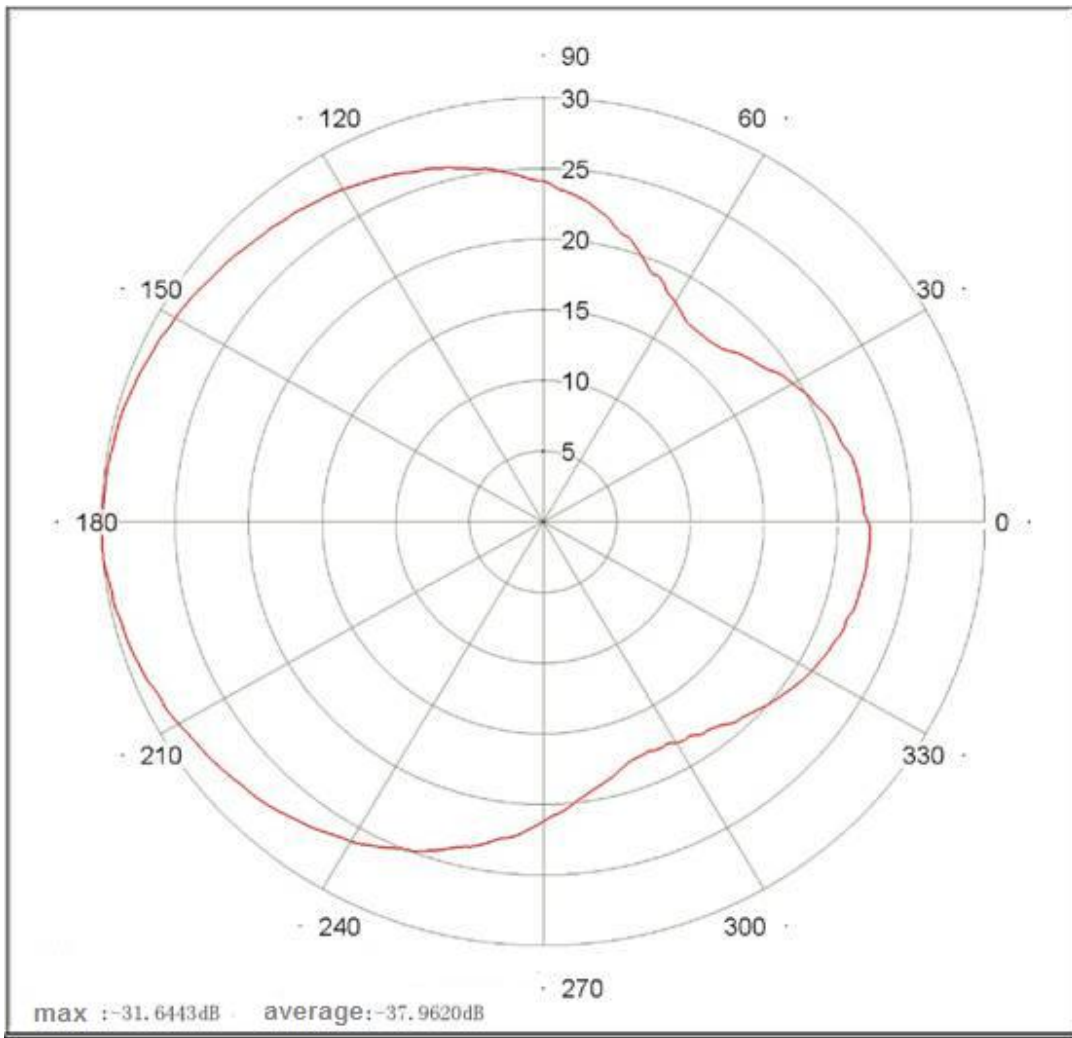
400~4000MHz dual ridge horn antenna E 400MHz polar diagram

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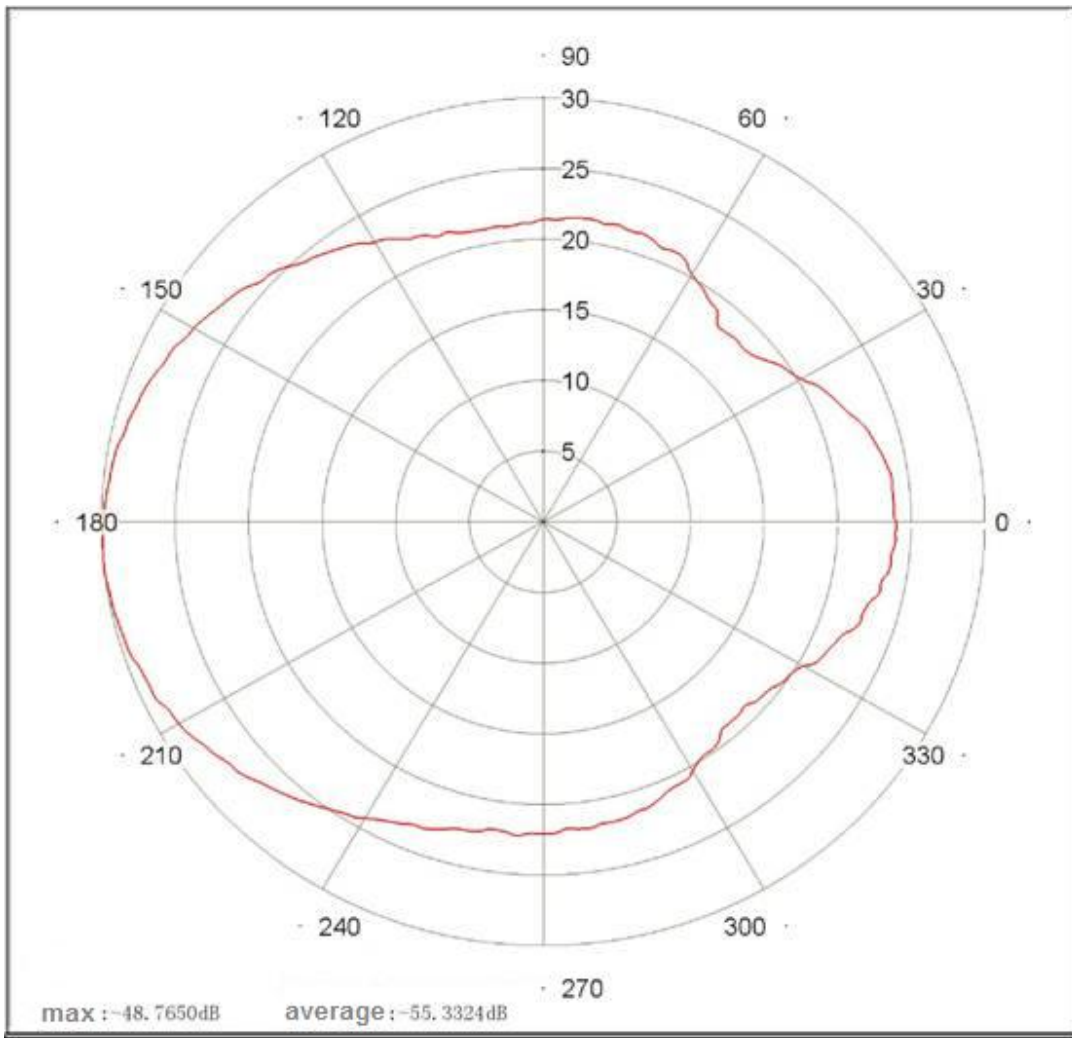
400~4000MHz dual ridge horn antenna H 400MHz polar diagram

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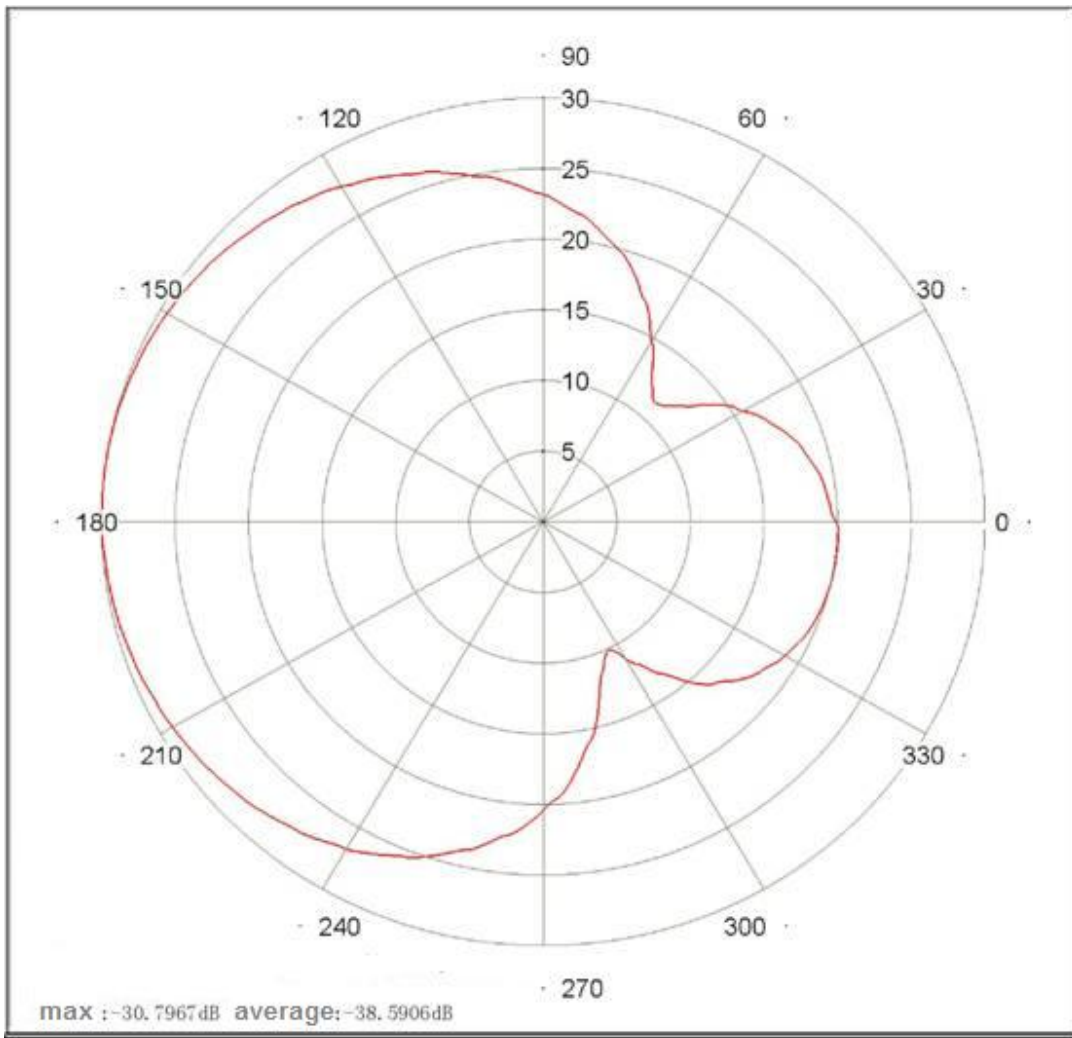
400~4000MHz dual ridge horn antenna E 450MHz polar diagram

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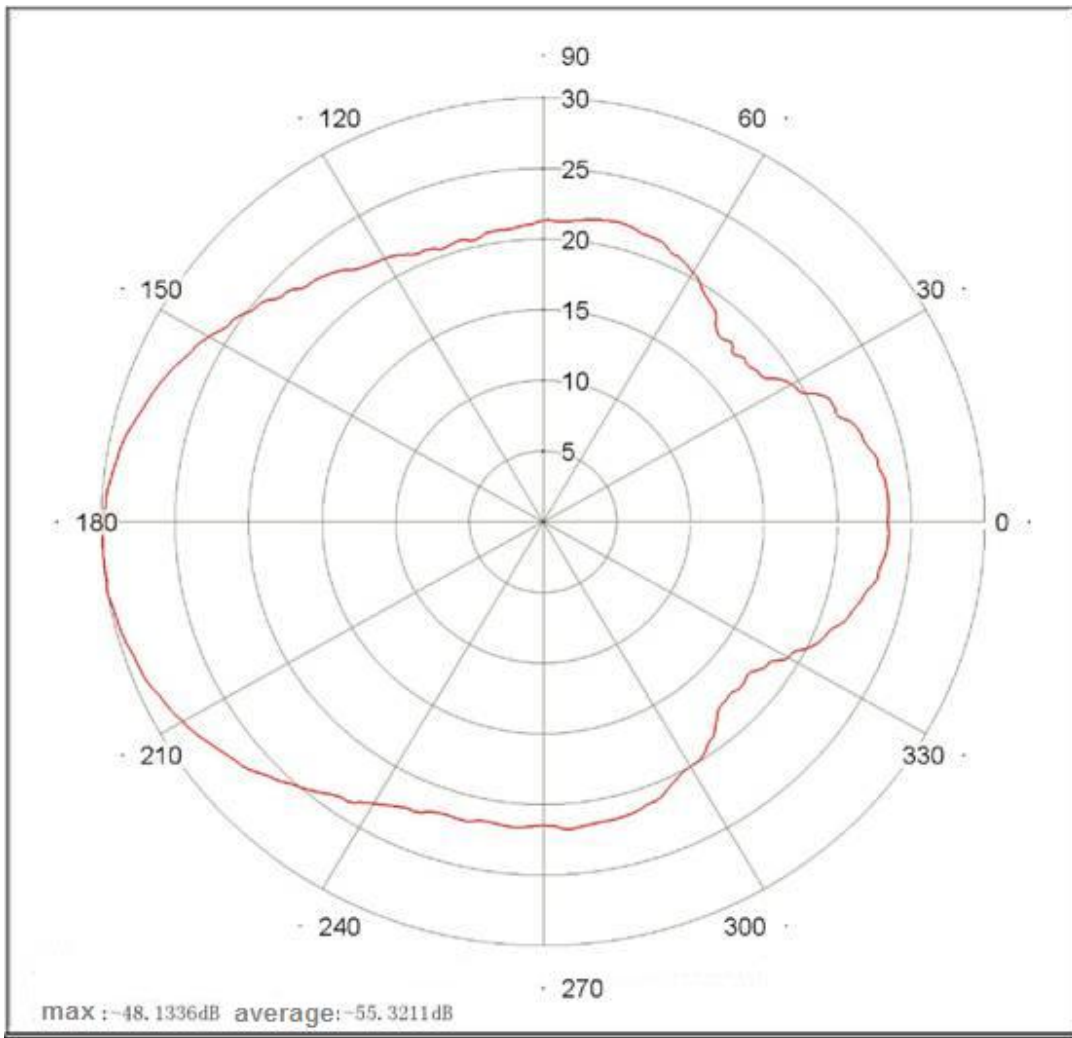
400~4000MHz dual ridge horn antenna H 450MHz polar diagram

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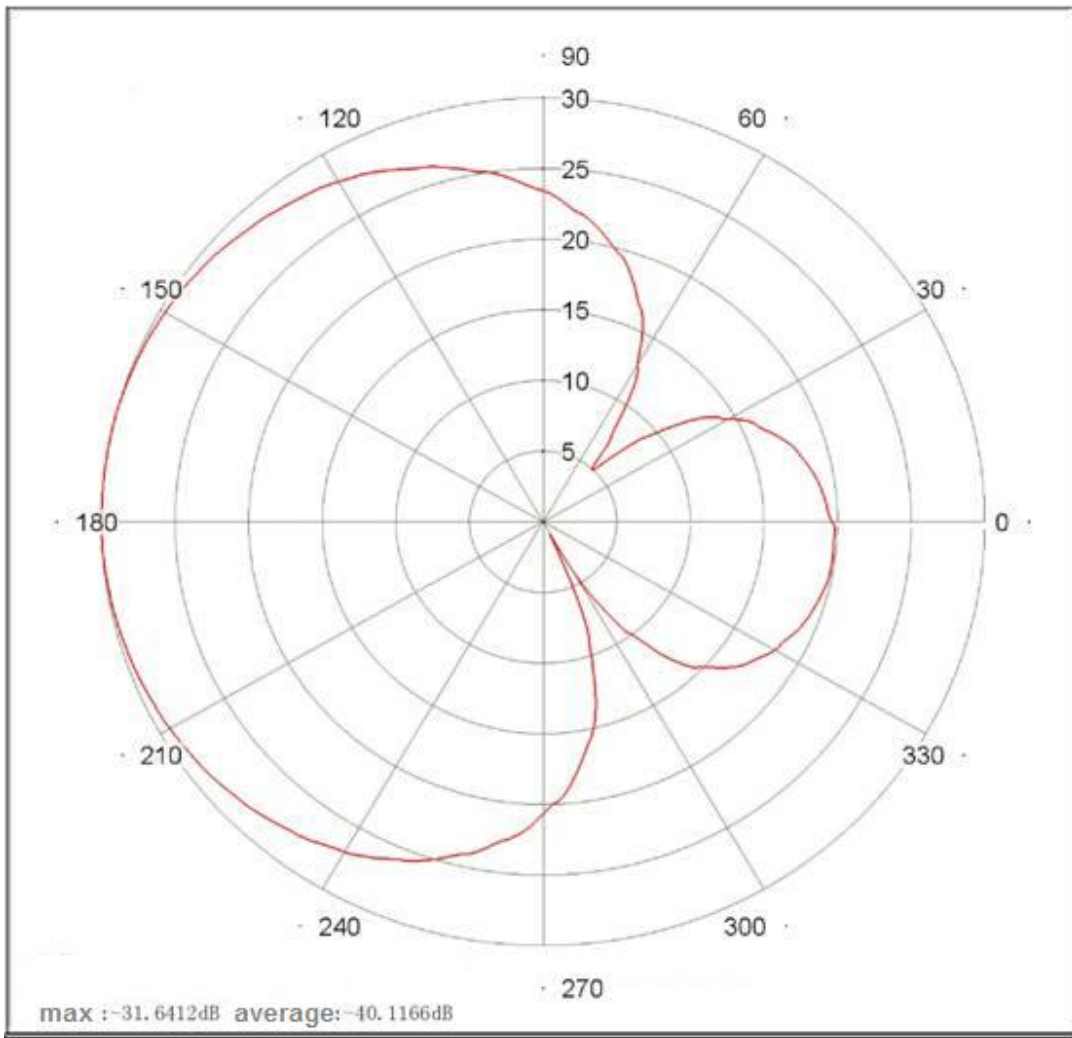
400~4000MHz dual ridge horn antenna E 470MHz polar diagram

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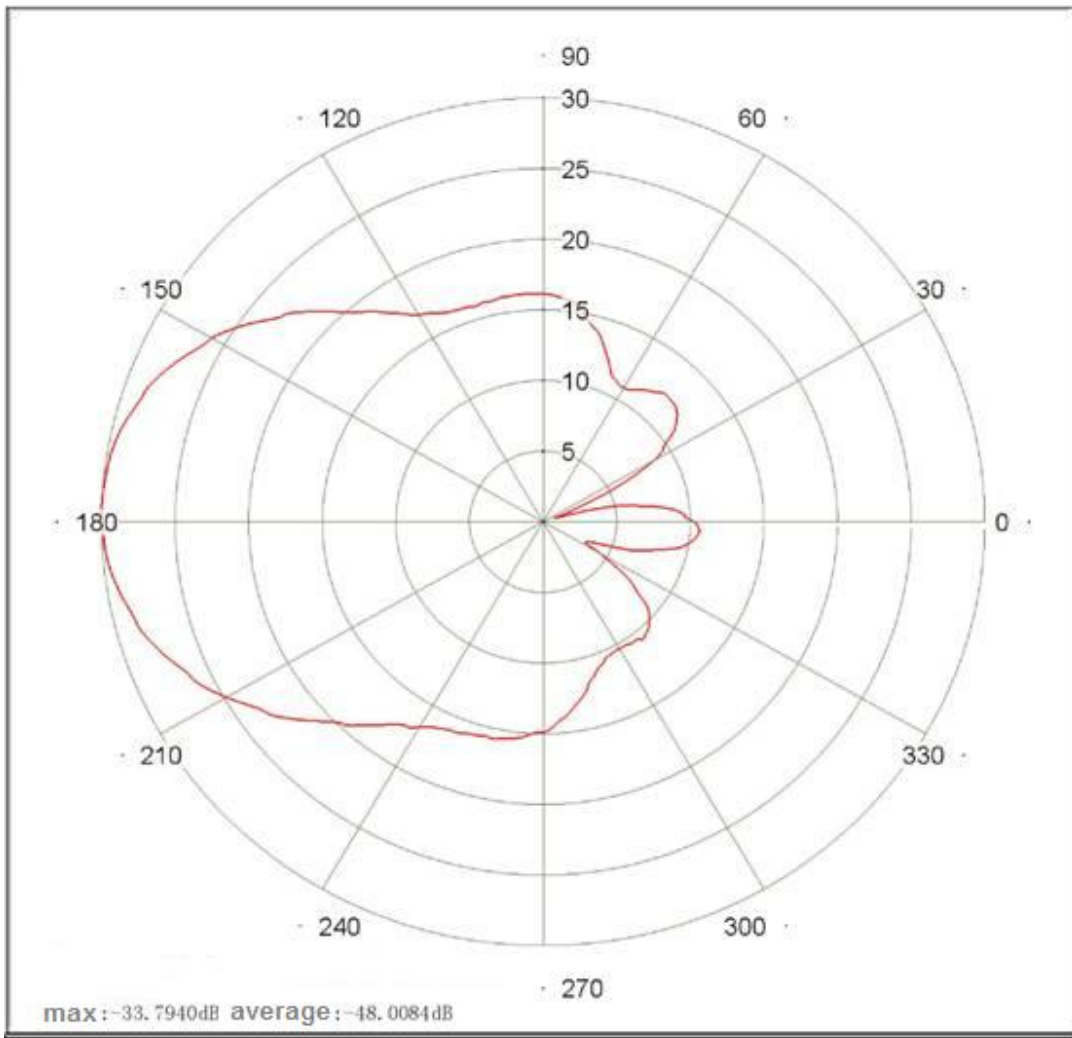
400~4000MHz dual ridge horn antenna H 470MHz polar diagram

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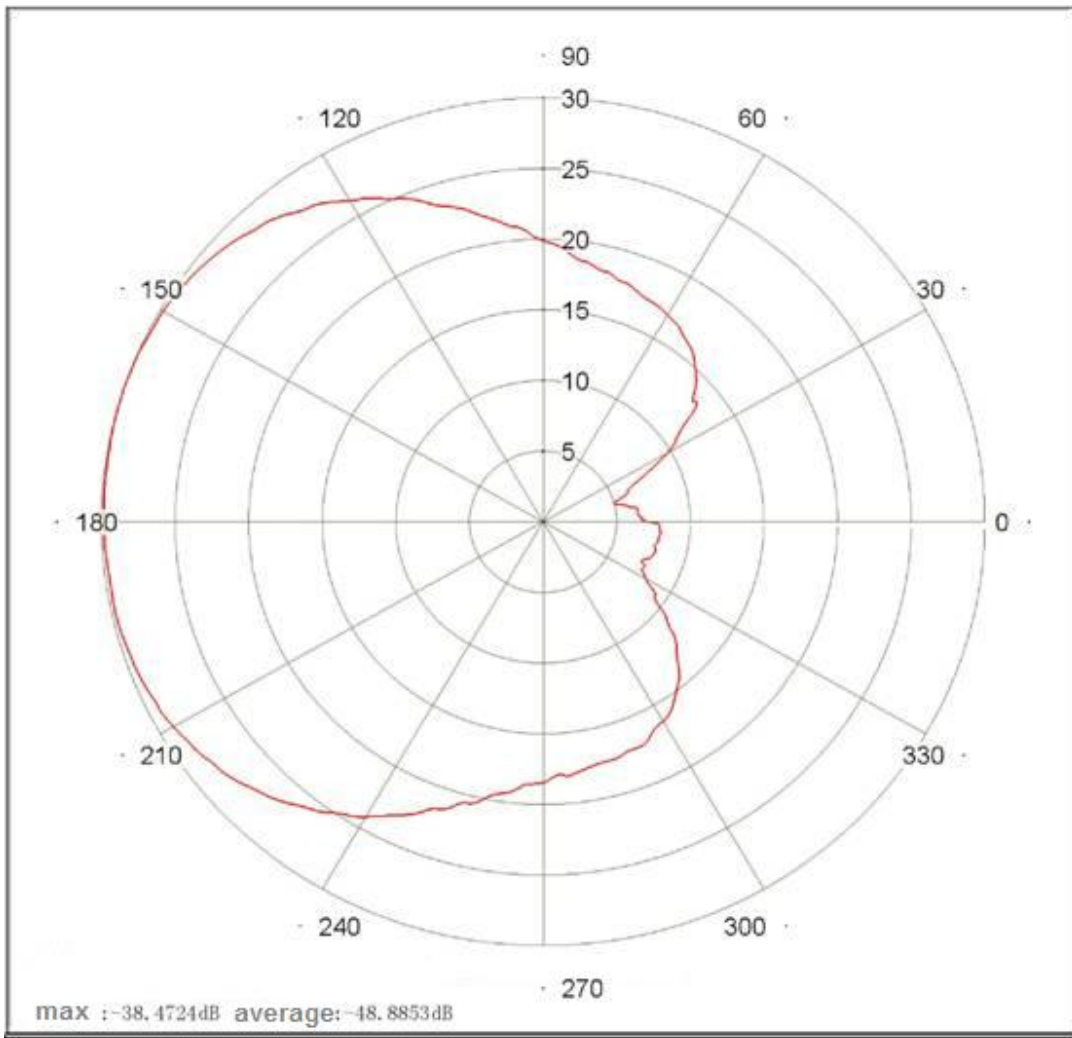
400~4000MHz dual ridge horn antenna E 800MHz polar diagram

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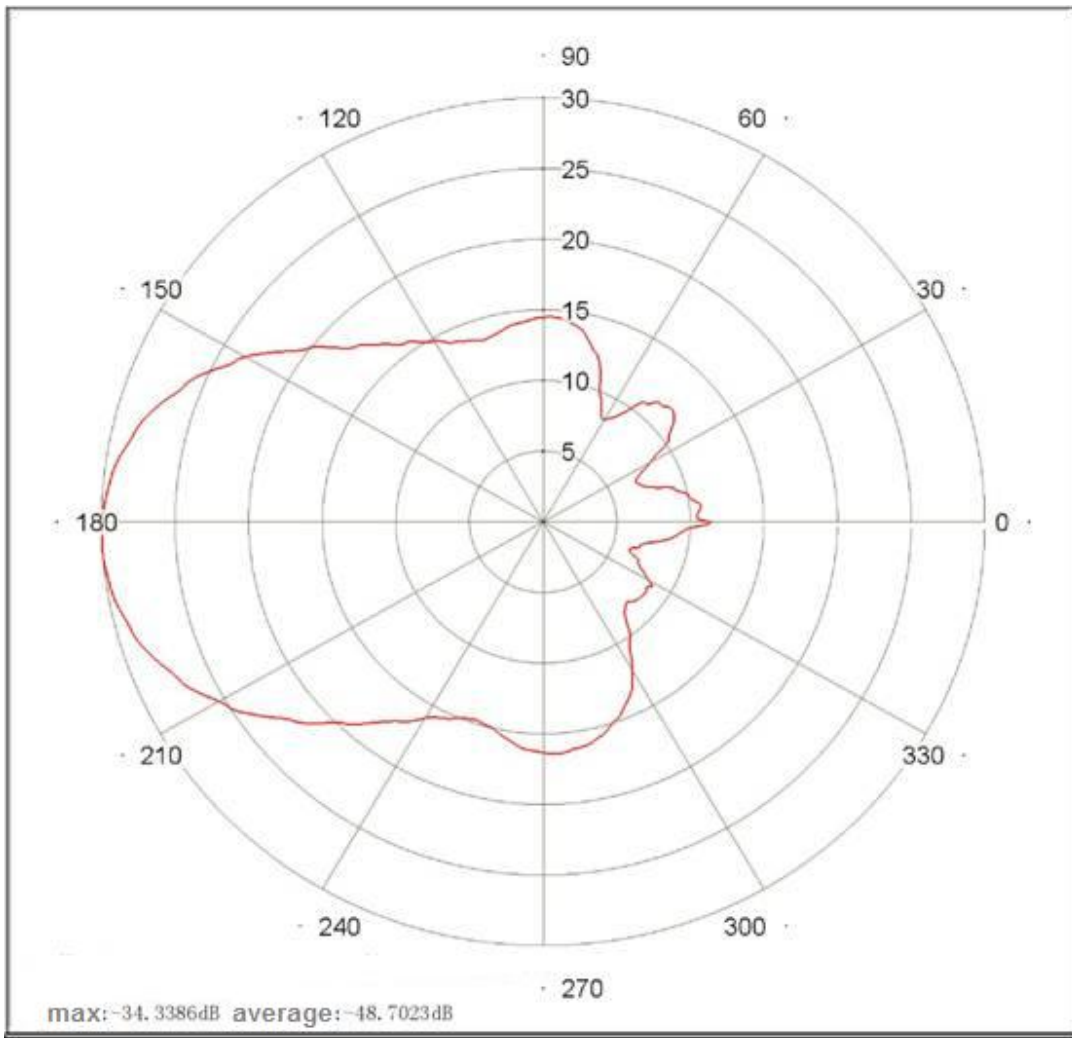
400~4000MHz dual ridge horn antenna H 800MHz polar diagram

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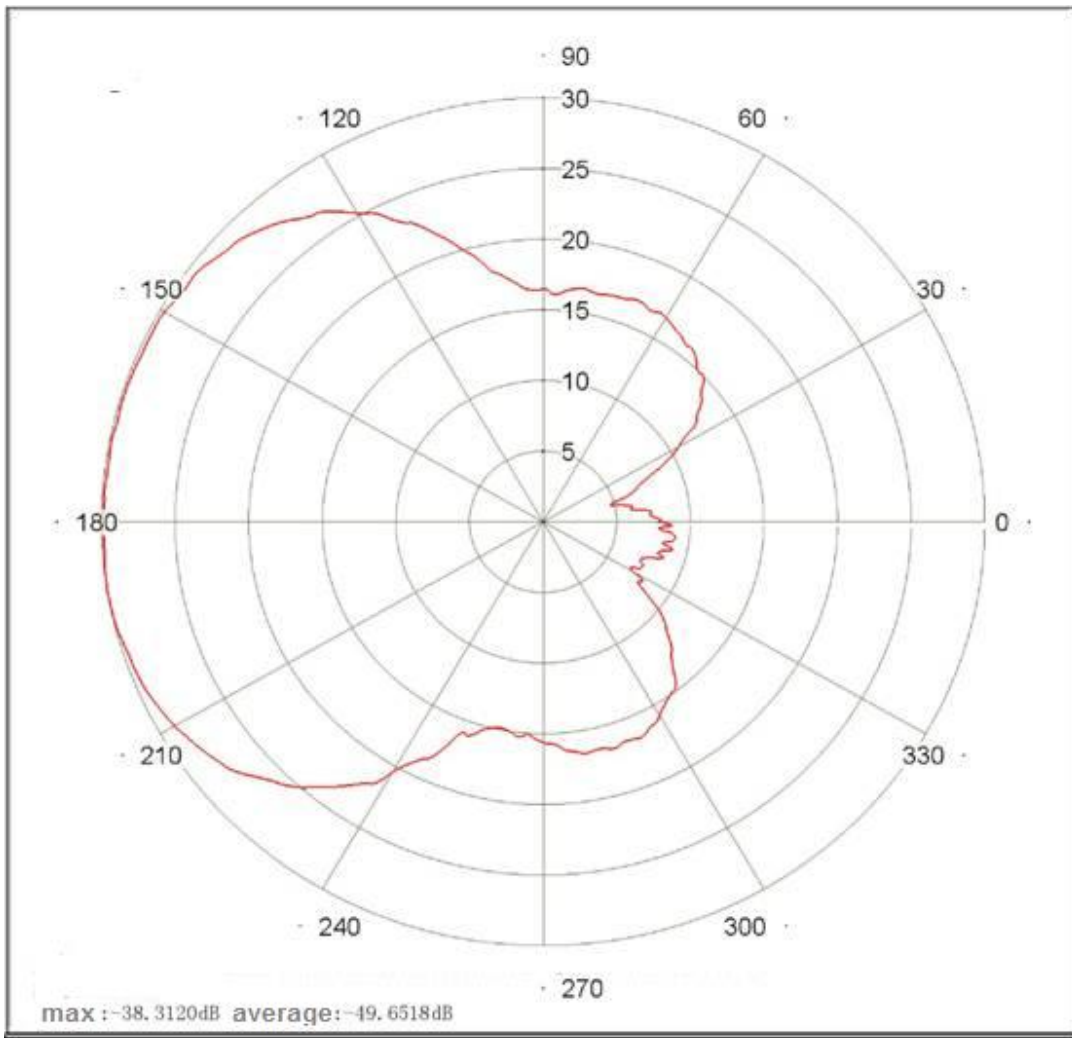
400~4000MHz dual ridge horn antenna E 900MHz polar diagram

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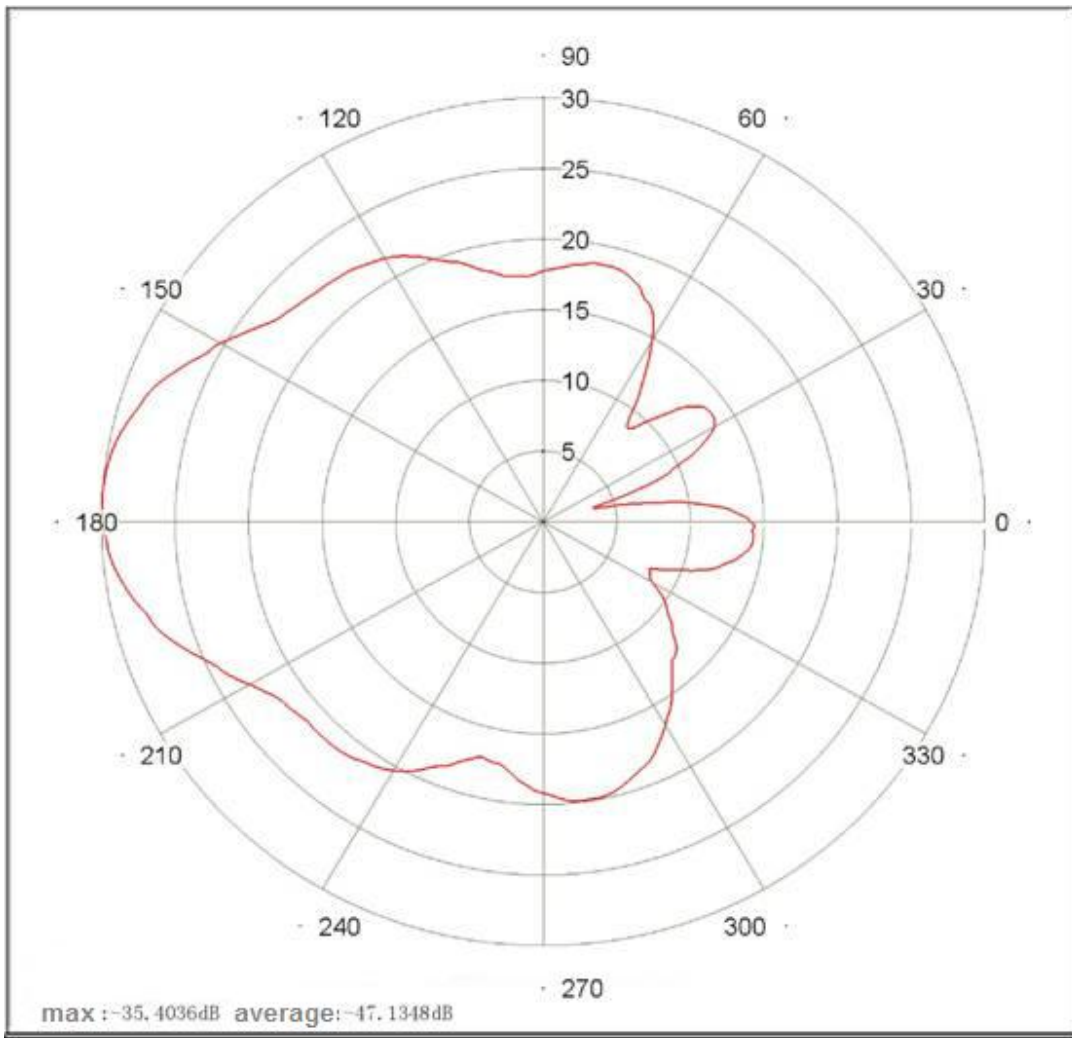
400~4000MHz dual ridge horn antenna H 900MHz polar diagram

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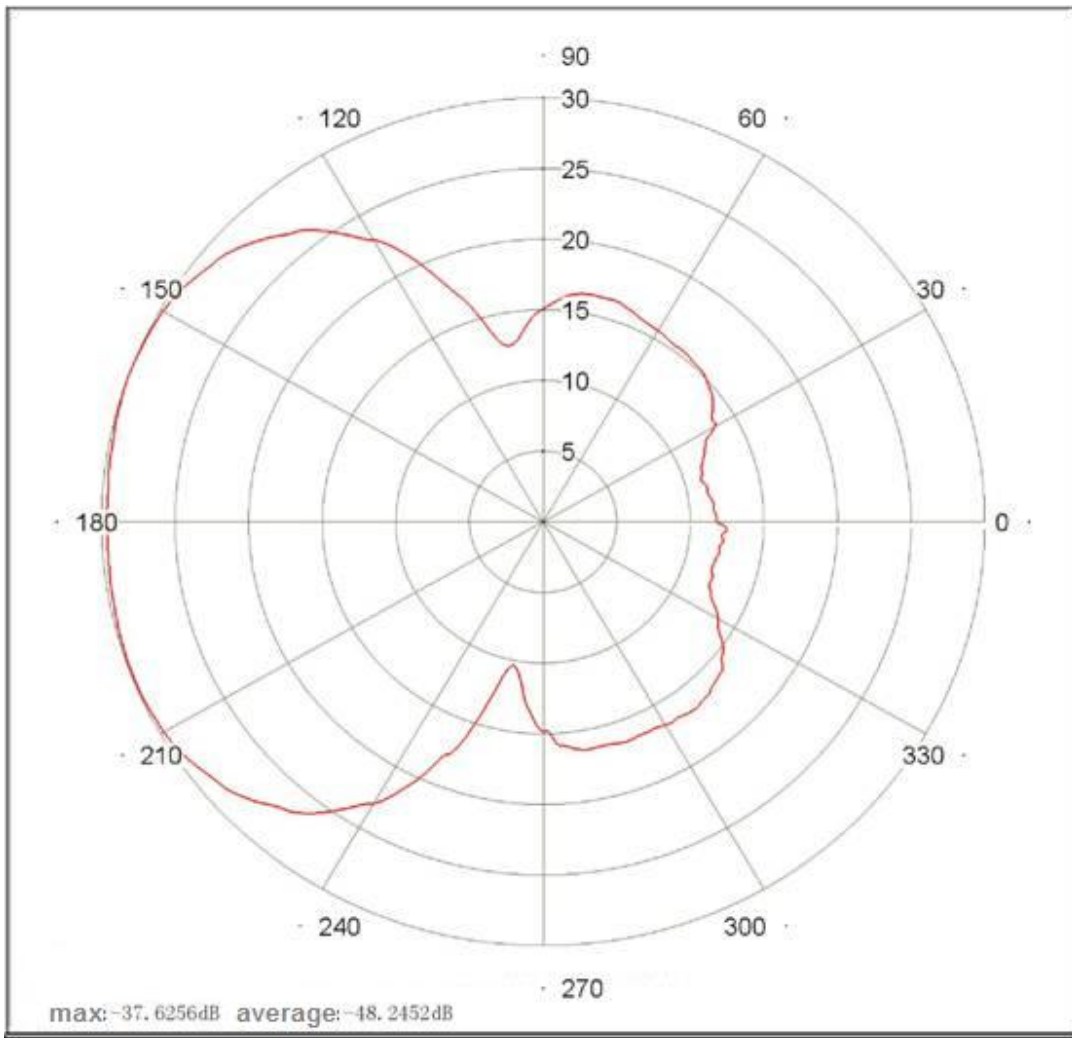
400~4000MHz dual ridge horn antenna E 1000MHz polar diagram

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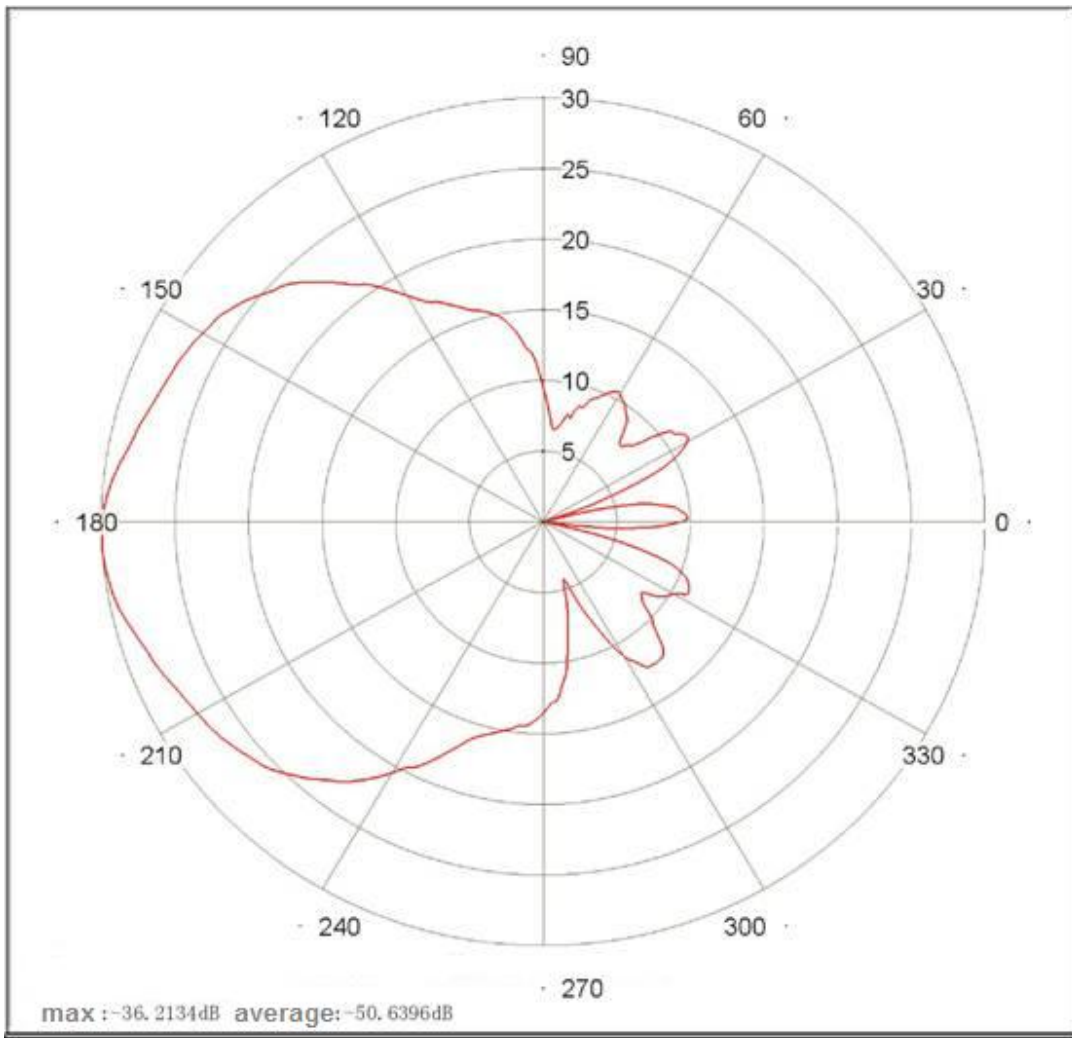
400~4000MHz dual ridge horn antenna H 1000MHz polar diagram

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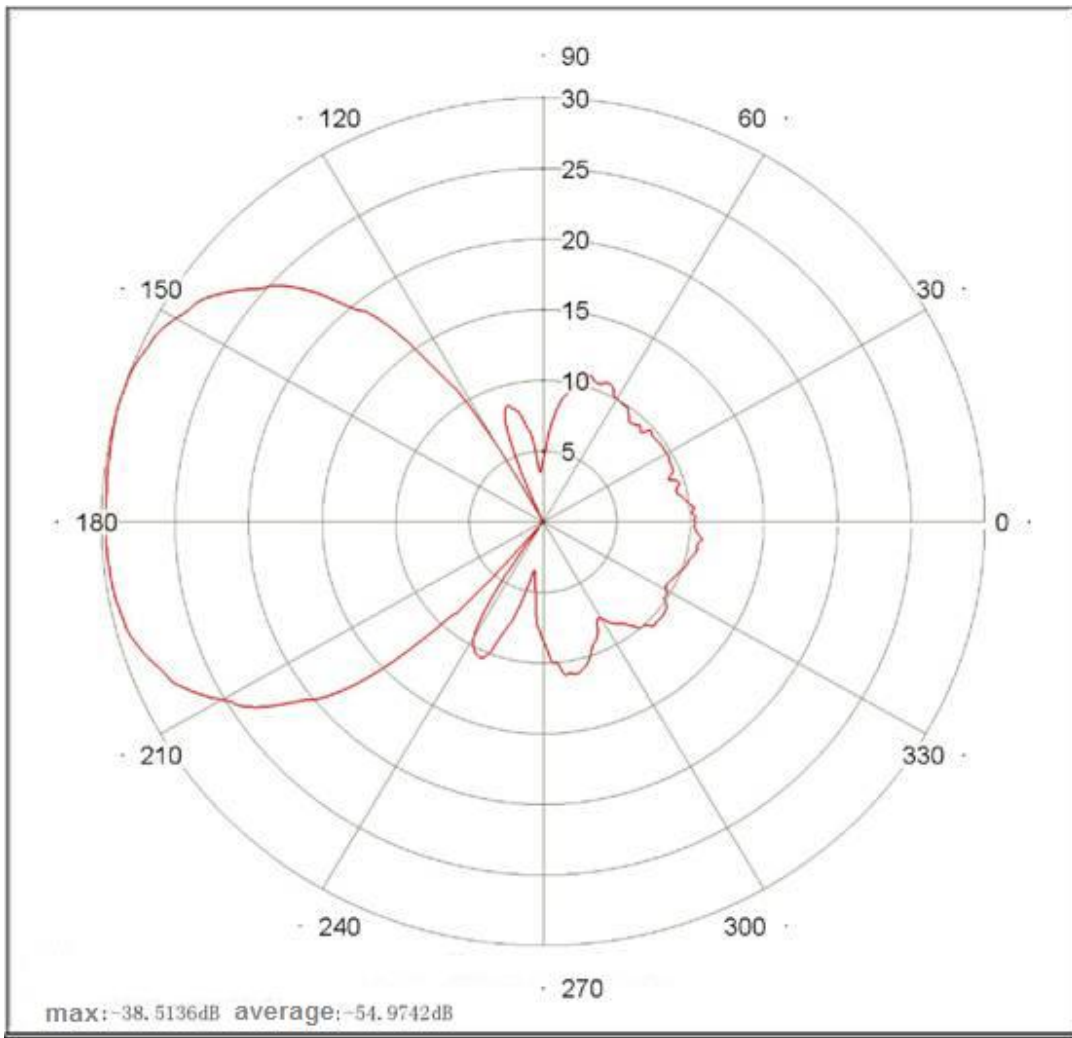
400~4000MHz dual ridge horn antenna E 1500MHz polar diagram

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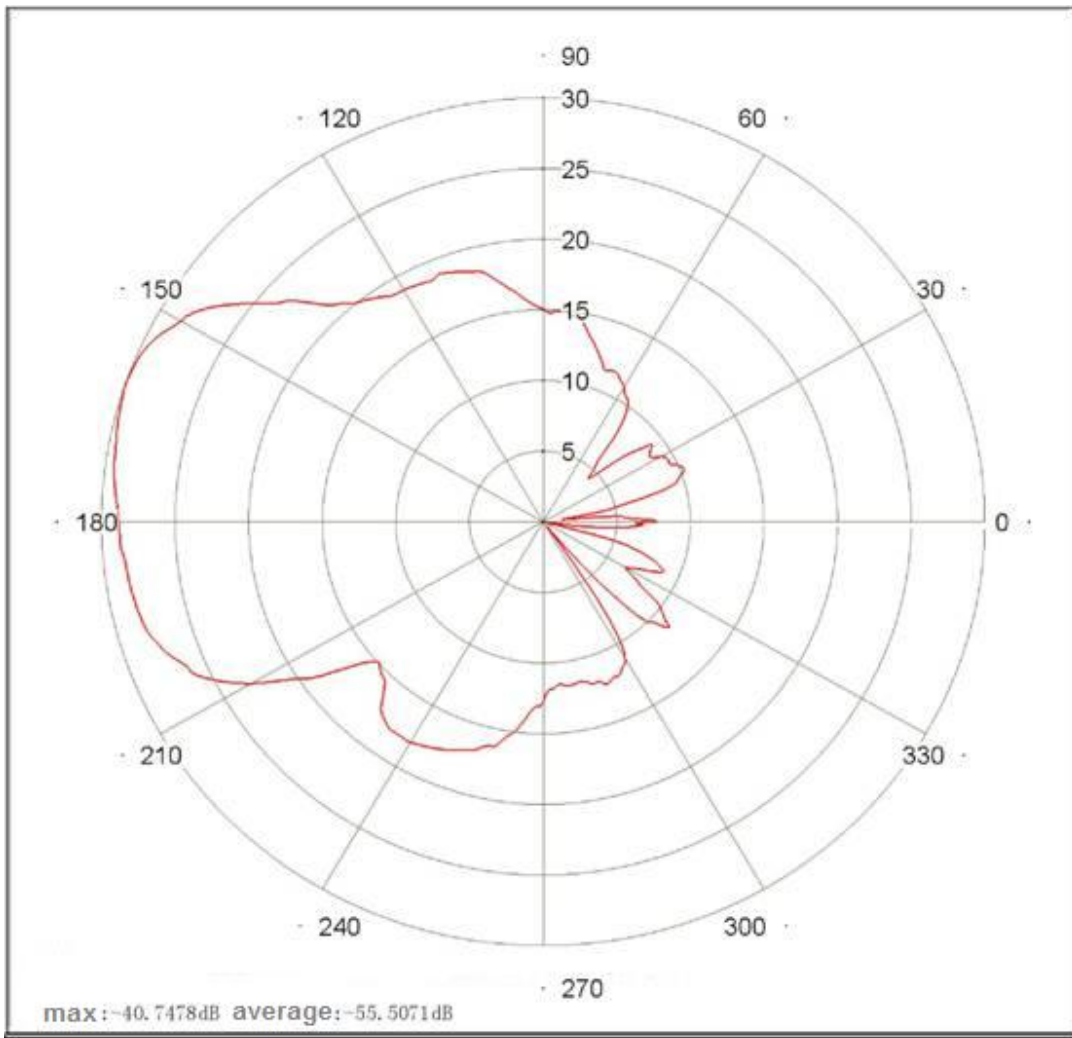
400~4000MHz dual ridge horn antenna H 1500MHz polar diagram

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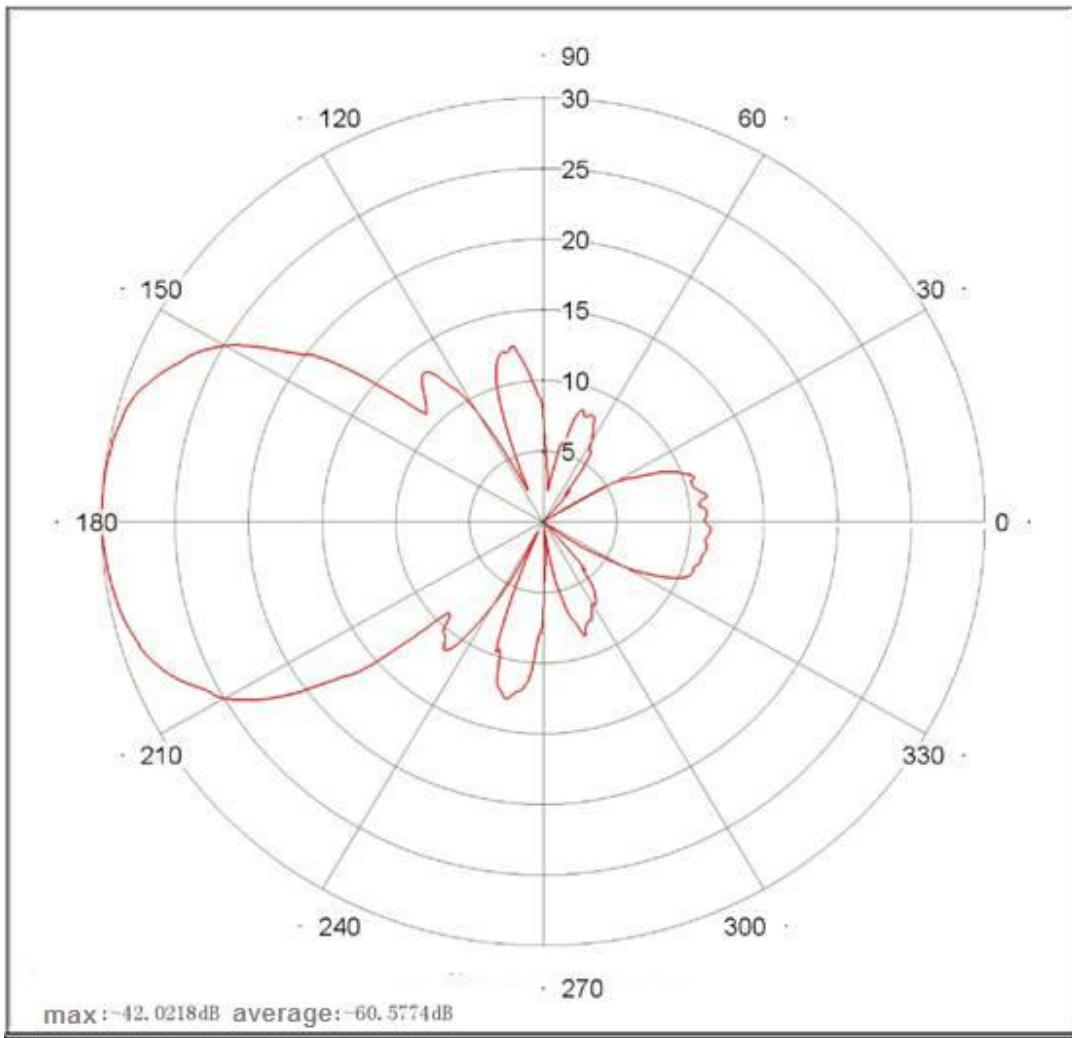
400~4000MHz dual ridge horn antenna E 2000MHz polar diagram

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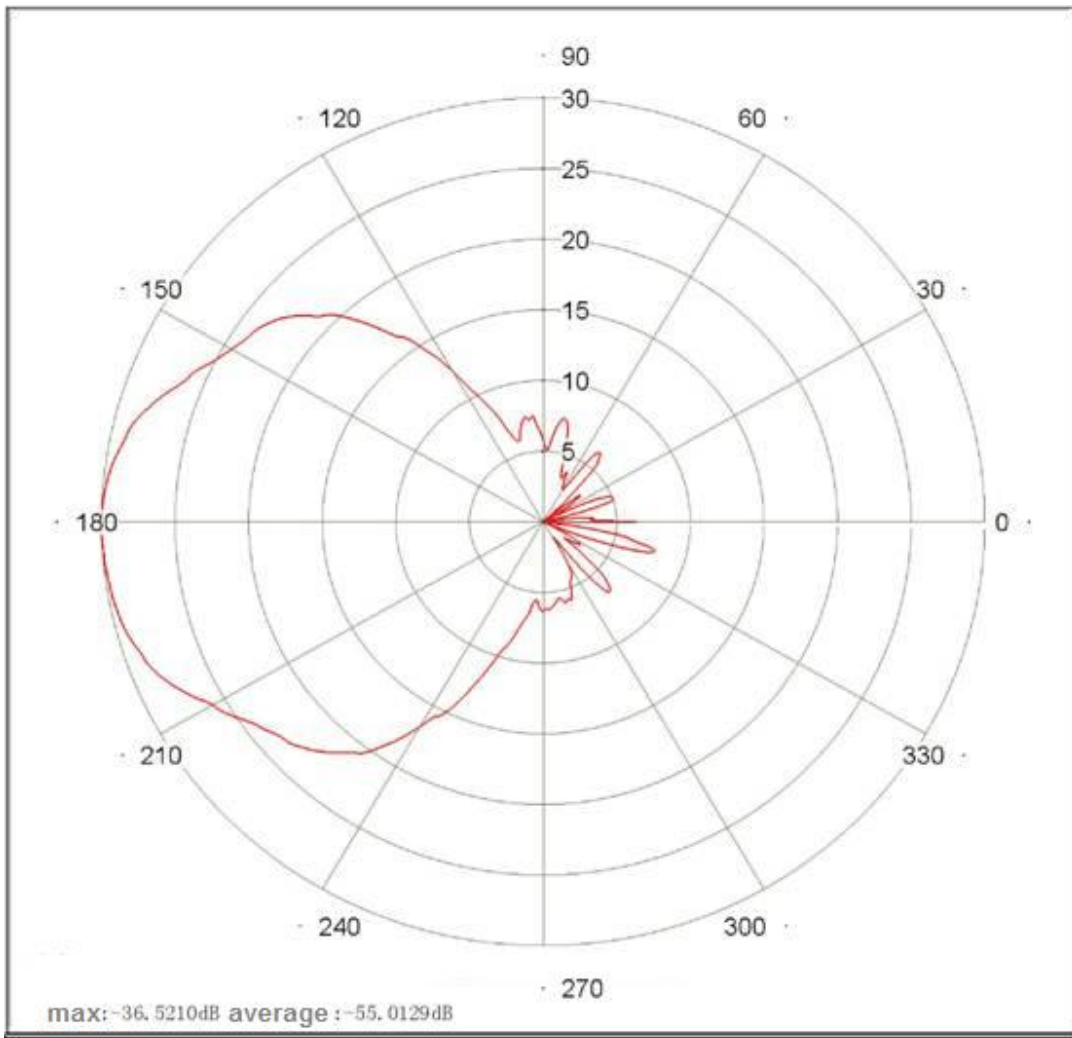
400~4000MHz dual ridge horn antenna H 2000MHz polar diagram

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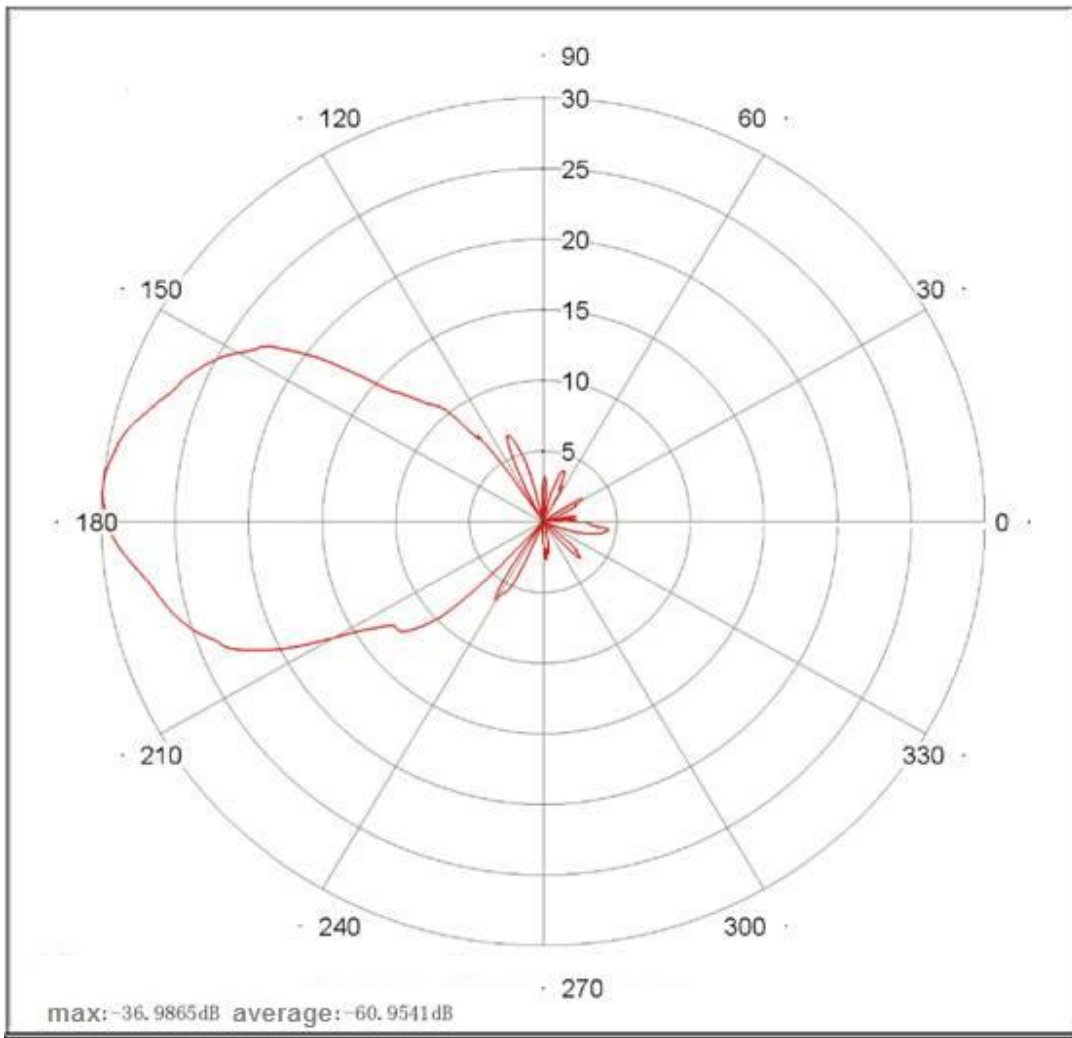
400~4000MHz dual ridge horn antenna E 2500MHz polar diagram

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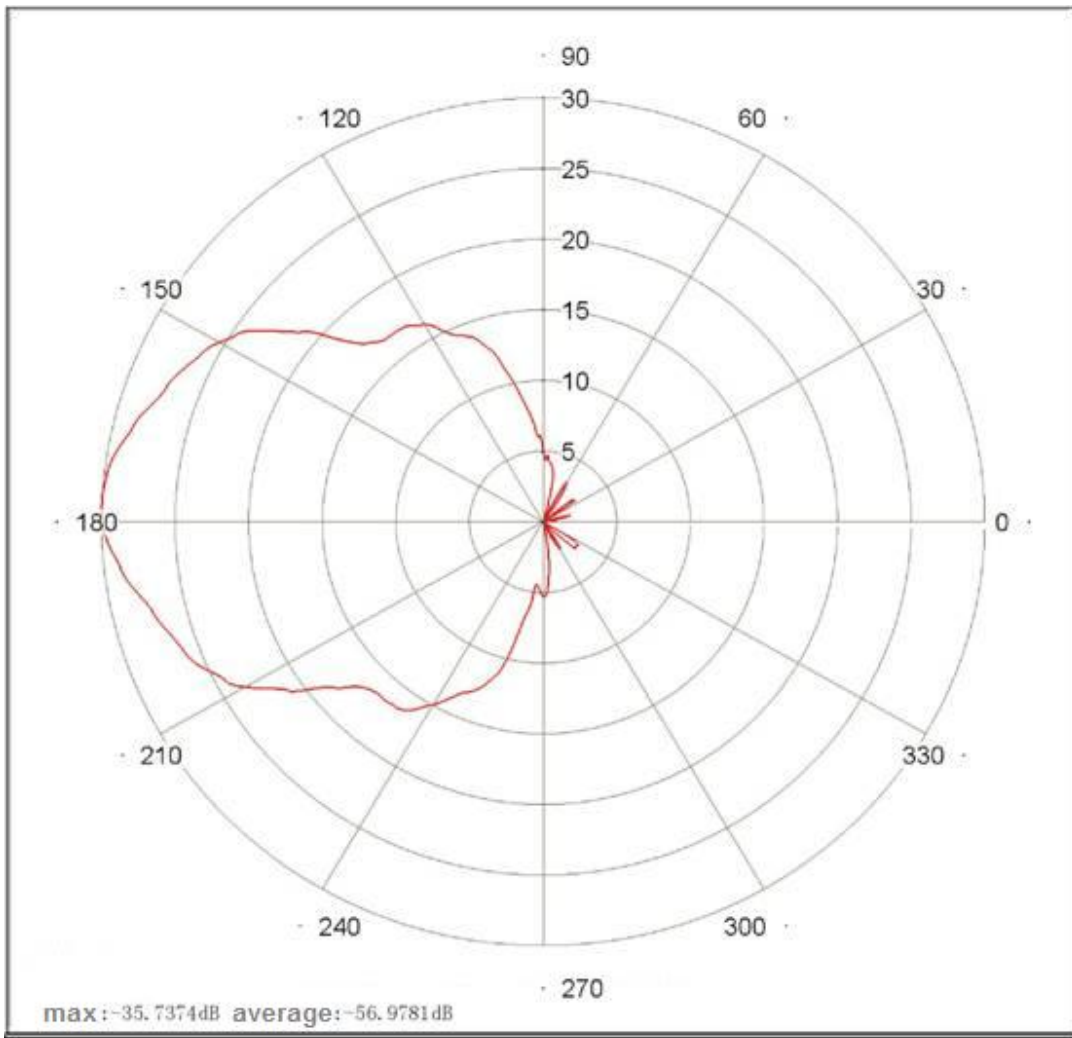
400~4000MHz dual ridge horn antenna H 2500MHz polar diagram

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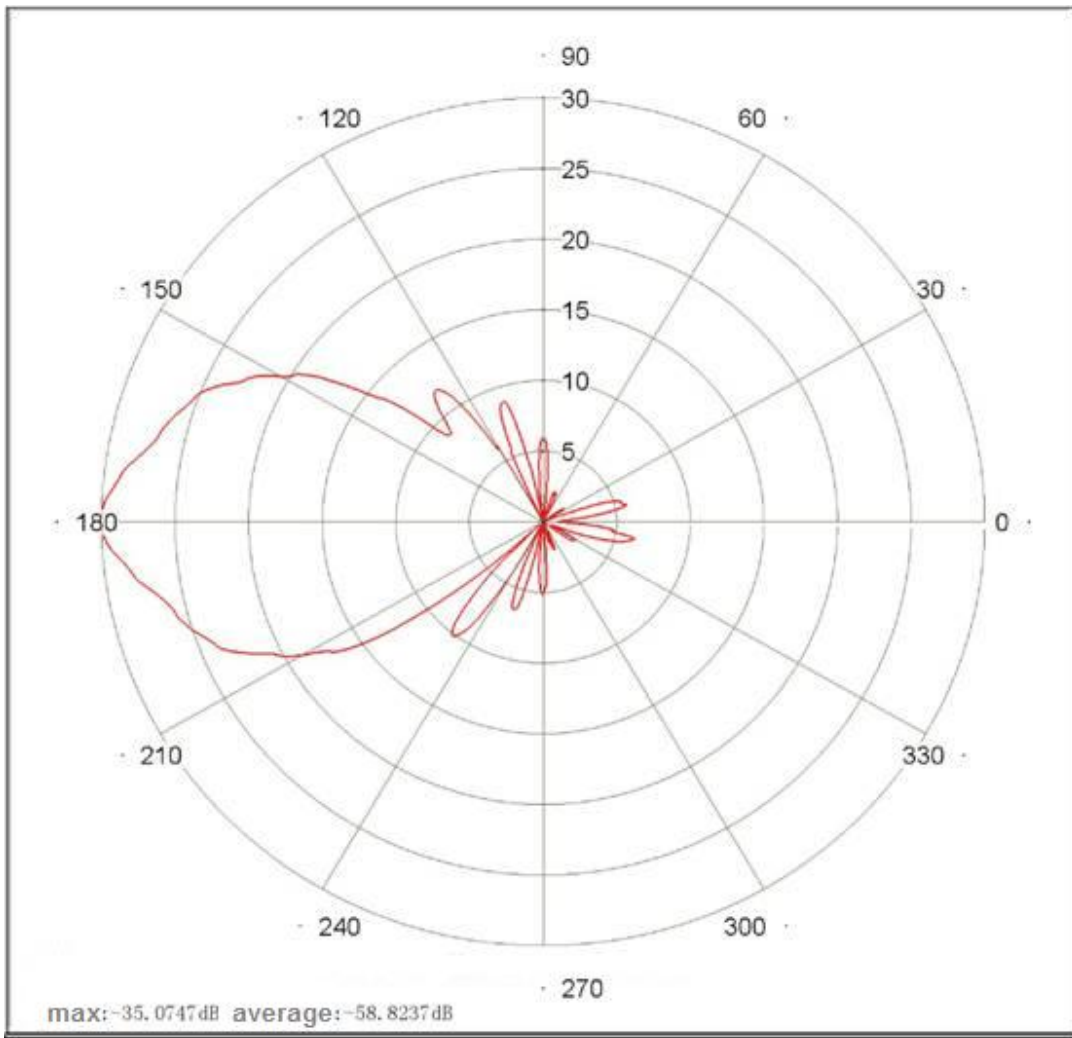
400~4000MHz dual ridge horn antenna E 3000MHz polar diagram

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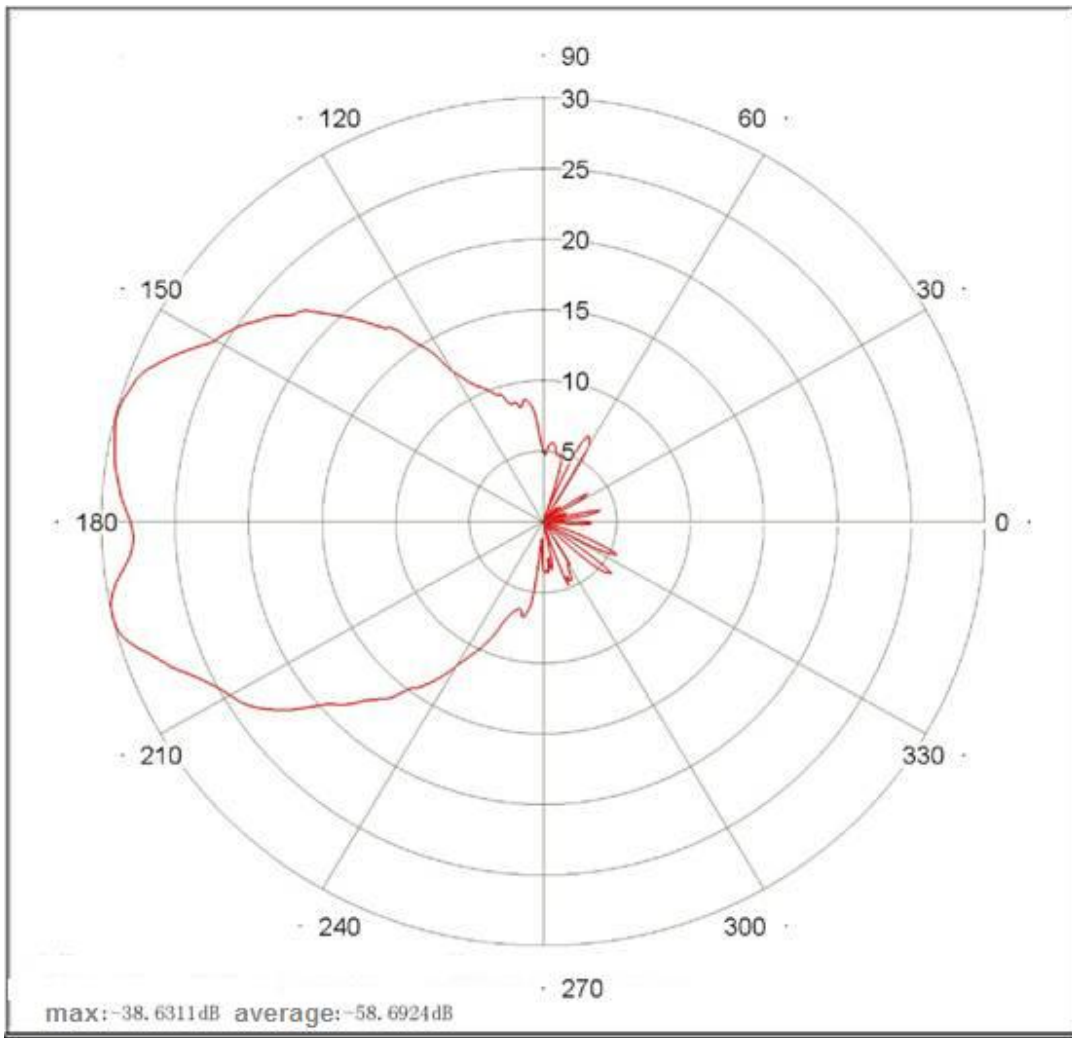
400~4000MHz dual ridge horn antenna H 3000MHz polar diagram

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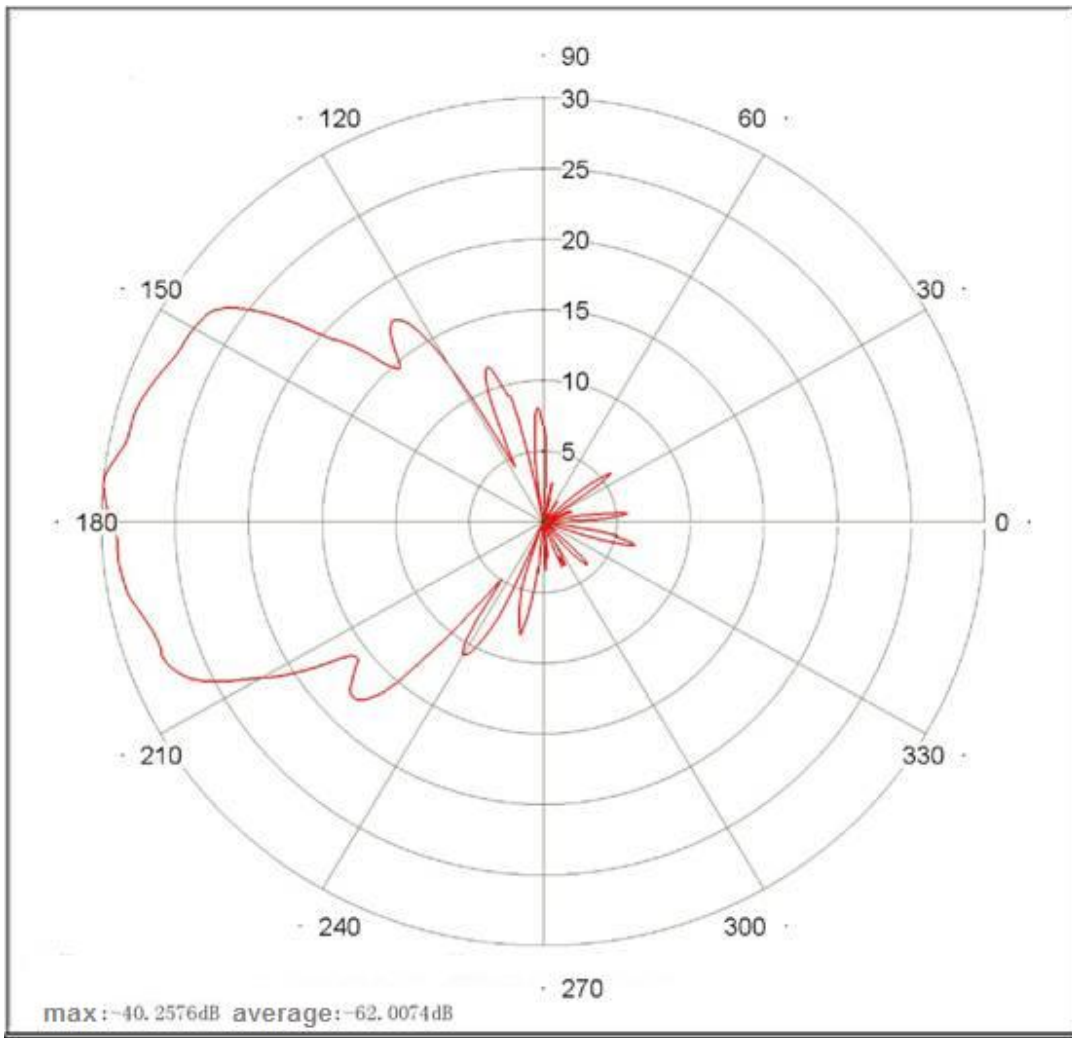
400~4000MHz dual ridge horn antenna E 3500MHz polar diagram

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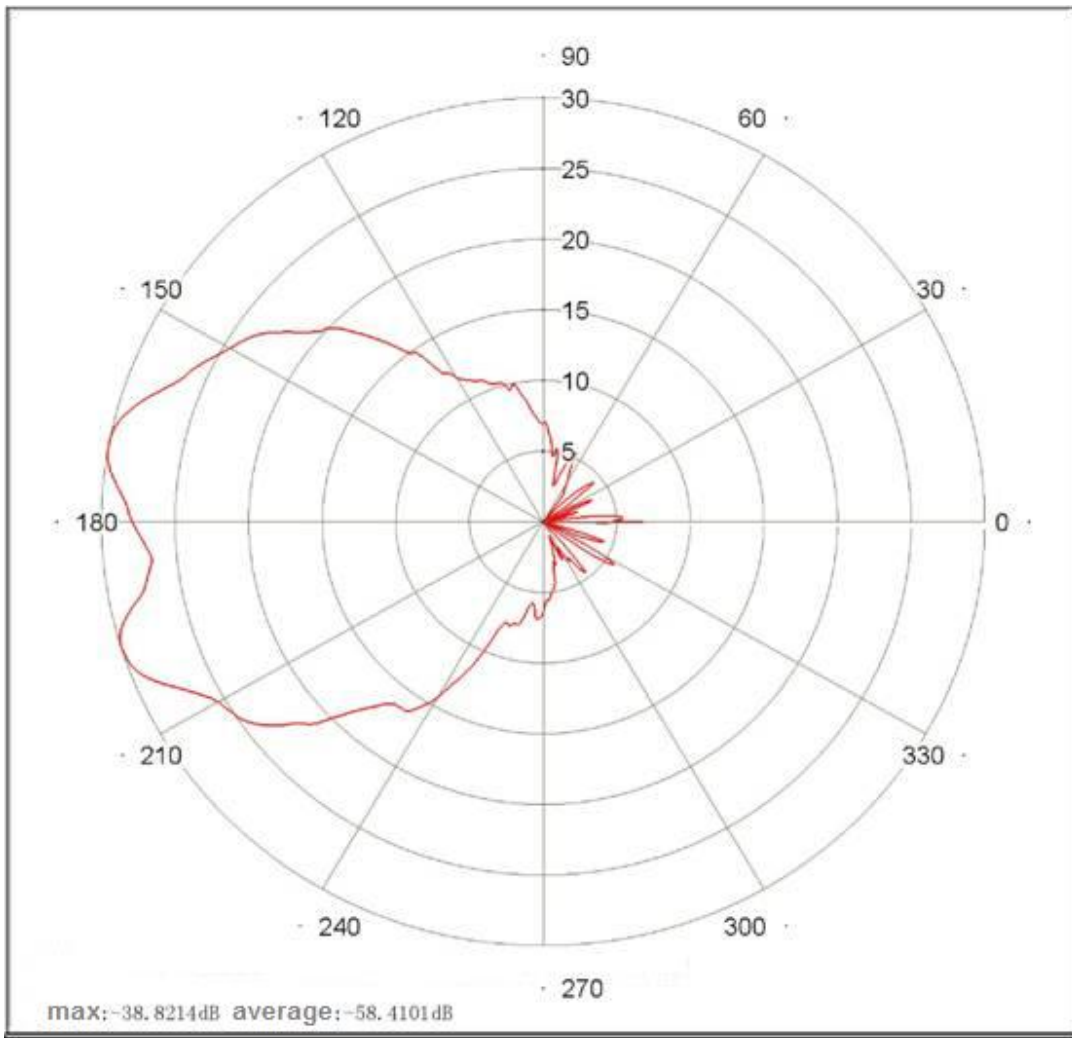
400~4000MHz dual ridge horn antenna H 3500MHz polar diagram

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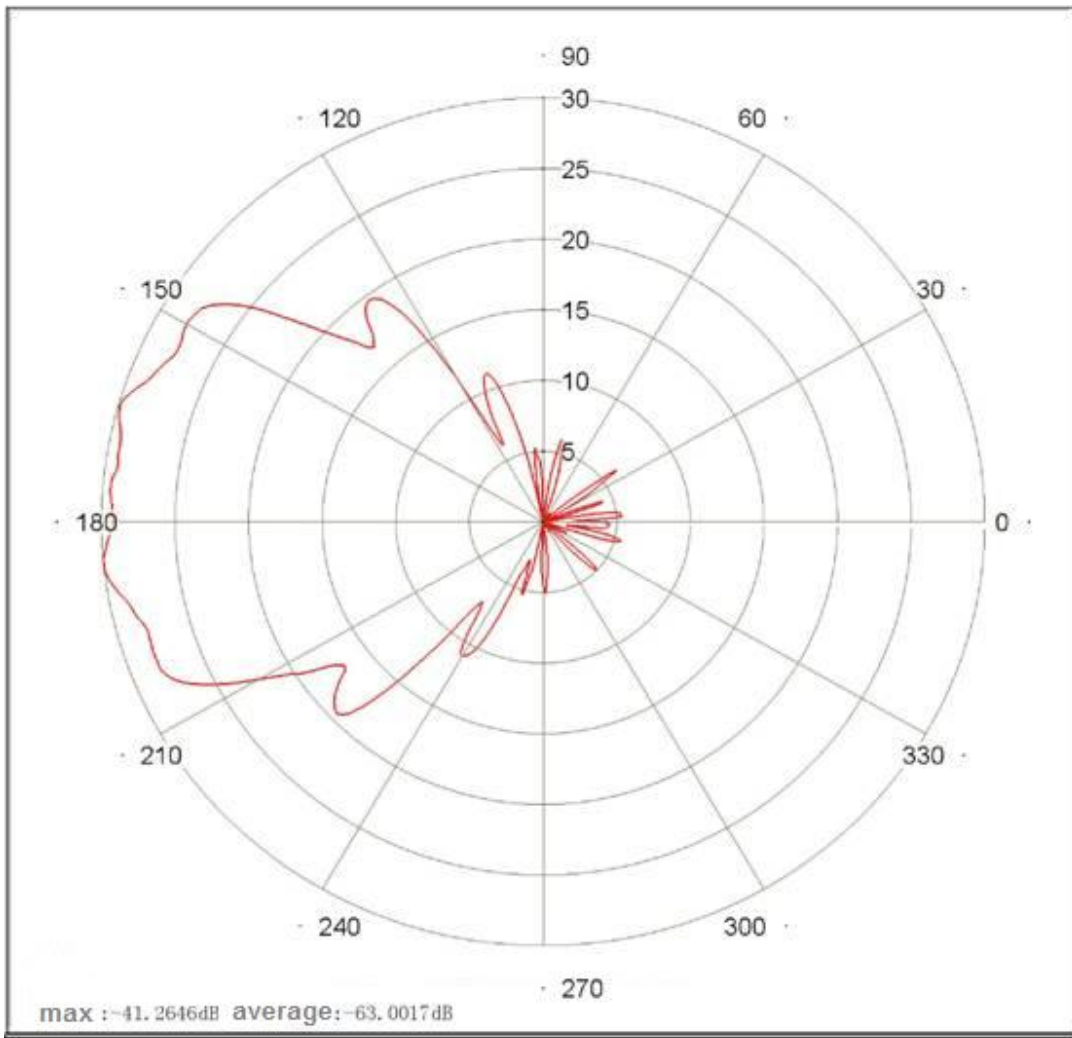
400~4000MHz dual ridge horn antenna E 3600MHz polar diagram

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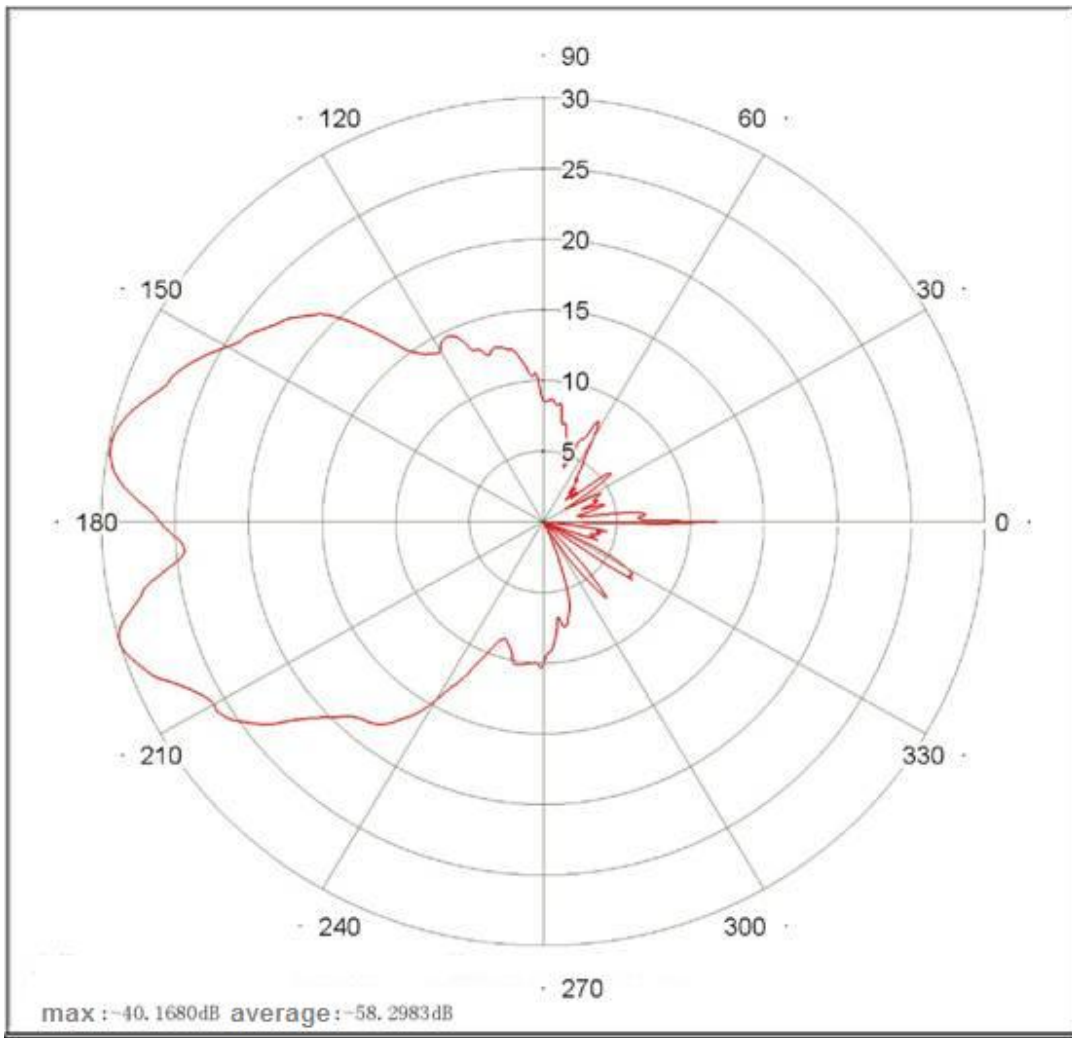
400~4000MHz dual ridge horn antenna H 3600MHz polar diagram

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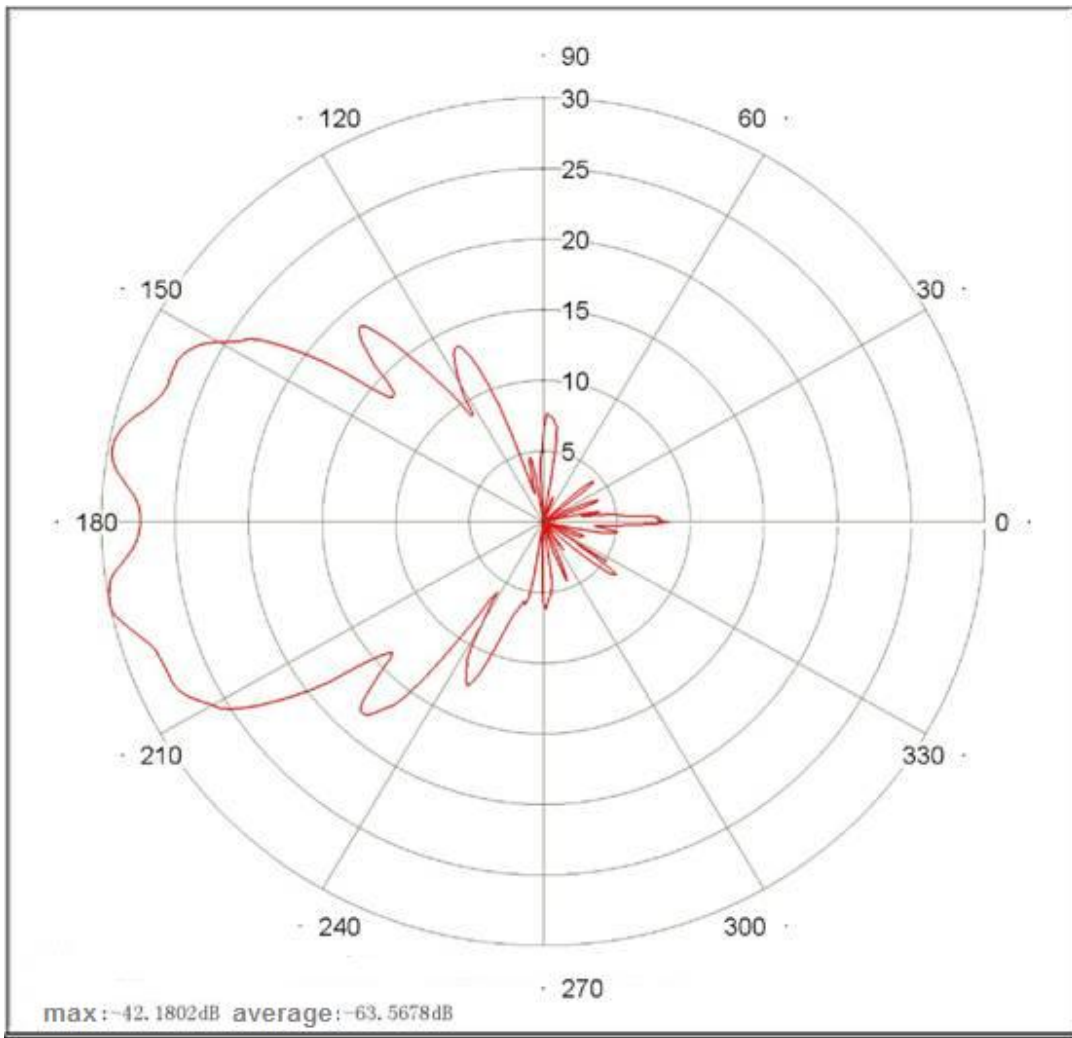
400~4000MHz dual ridge horn antenna E 3700MHz polar diagram

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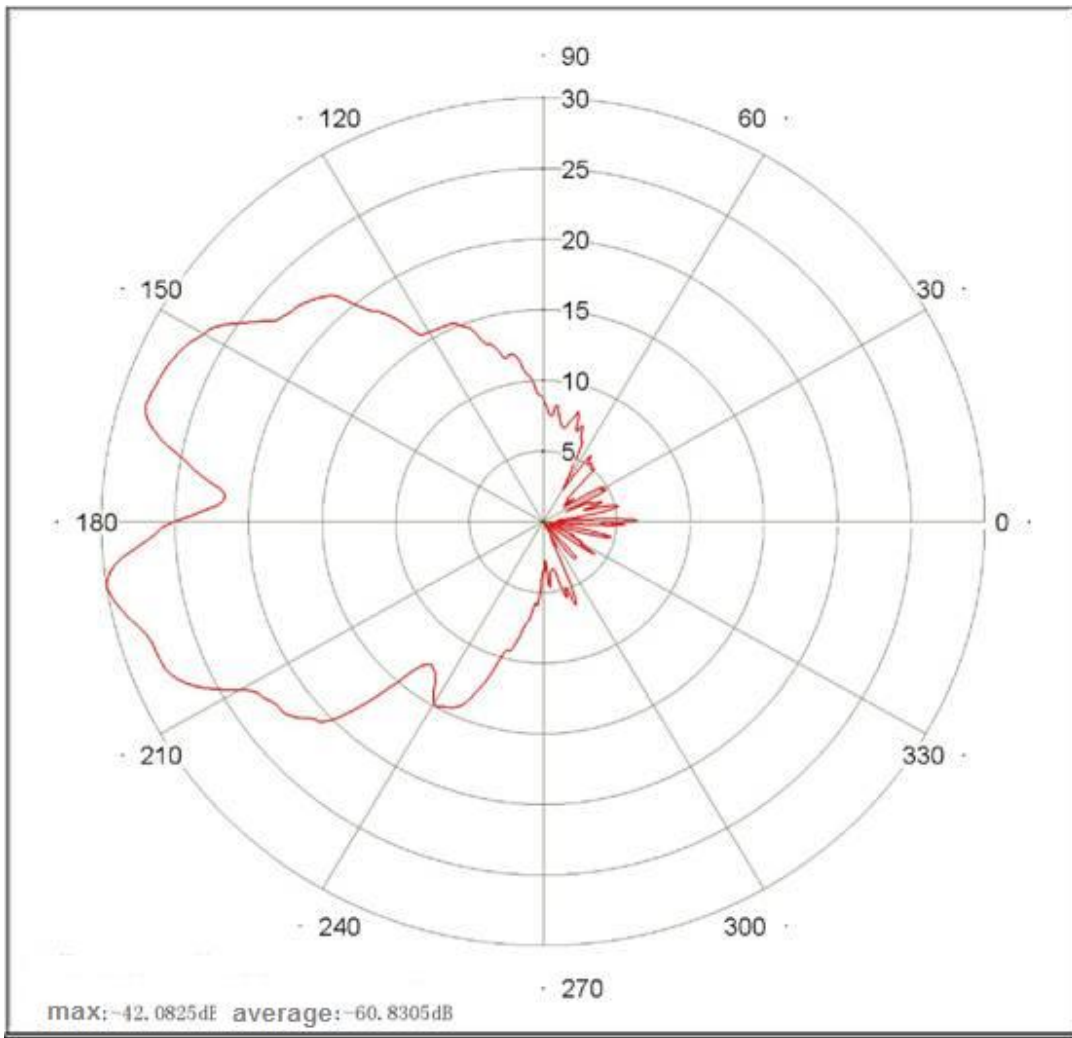
400~4000MHz dual ridge horn antenna H 3700MHz polar diagram

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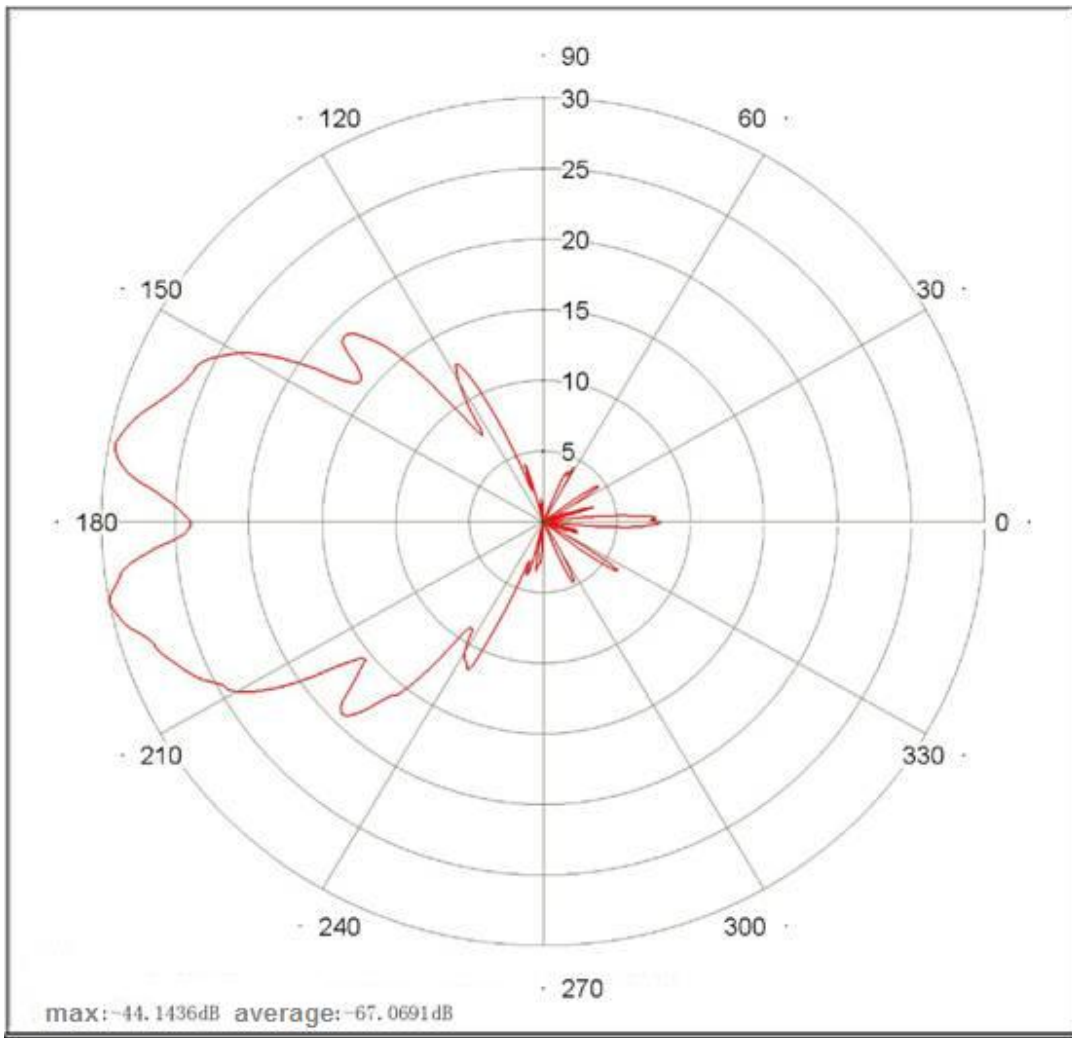
400~4000MHz dual ridge horn antenna E 4000MHz polar diagram

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