

Antenna Factor Data



OCEAN MICROWAVE

25# Building Advanced Business Park
18 zone Fengtai district Beijing China
(+86) 010 60290088 fax (+86) 010 60290088
sales@oceanmicrowave.com www.rfecho.com

WARRANTY

Ocean Microwave Inc., warrants that our Antennas, Sensors and Probes will be free from defects in materials and workmanship for a period of three (2) years. All other products delivered under contract will be warranted for a period of two (1) years. Damage caused by excessive signals at the product's input is not covered under the warranty. Ocean Microwave Inc' obligation under this warranty shall be limited to repairing or replacing, F.O.B. Beijing, China, each part of the product which is defective, provided that the buyer gives Ocean Microwave Inc notice of such defect within the warranty period commencing with the delivery of the product by Ocean Microwave Inc.

The remedy set forth herein shall be the only remedy available to the buyer, and in no event shall Ocean Microwave Inc be liable for direct, indirect, incidental or consequential damages.

This warranty shall not apply to any part of the product which, without fault of Ocean Microwave Inc has been subject to alteration, failure caused by a part not supplied by Ocean Microwave Inc, accident, fire or other casualty, negligence, misuse or normal wear of materials.

Except for the warranty set forth above, there are no other warranties, expressed or implied, with respect to the condition of the product or its suitability for the use intended for them by the buyer.

For prompt service, please contact our service department for a Return Material Authorization Number before shipping equipment back to us.



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Contents List

Quantity	Model Number	Description	SN
1	OBH-10180	frequency: 1GHz -18GHz, Gain: 7-15dBi	RF-803029009



Certificate Number: 2204-OBH-01002

Certificate of Calibration

The instrument identified below has been individually calibrated per the following standard(s)

ANSI C63.5-2017 Calibration and Qualification of antennas

Manufacturer: Ocean microwave
Model Number: OBH-10180
Serial Number: D21-4026 9001
Customer: Ergun YA Ş AYAN

Date Calibrated: 01-Apr-22
Calibration Interval: 12 Month
Calibration Due Date: 31-Mar-23
Temperature: 79F (26.1 C)
Humidity: 21% Relative Humidity

Remarks

This calibration is traceable to the National Institute of Standards and Technology through documents on file in the Chatsworth Metrology laboratory. Copies of NIST Traceability and test reports are available upon request. All calibrations conform to ANSI/NCSL Z540-1-1994 and ISO/IEC 17025. Uncertainties listed are derived from methods described by NIST Tech Note 1297.

Measurement Standards and Equipment Used:

Manufacturer	Model Number	SN	Due Date
Agilent	8722ES	US39175722	28-Jan-23

Condition of Instrumentation

Condition received: Good Condition

Condition returned: Within Manufacturers Specifications

Calibration Uncertainty

95% Confidence Level using a coverage factor of k=2

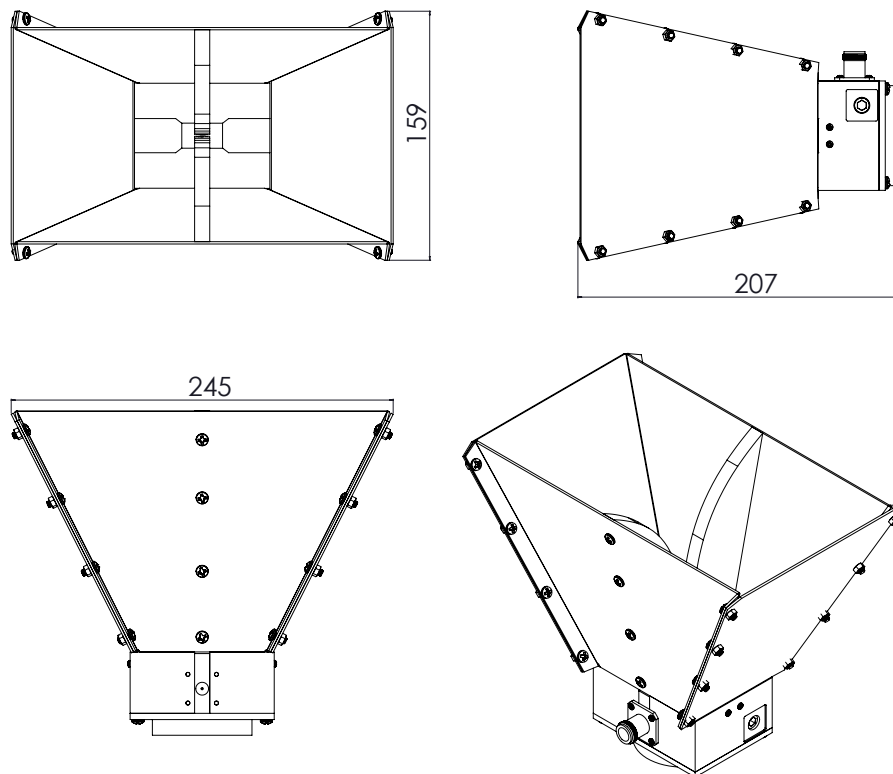
Correction Factor +/- 0.87 dB

RF Technician

Quality Control Manager

The information shown on this certificate applies only to the instrument identified above and may not be reproduced except in full, without the written approval of OCEAN MICROWAVE, inc. There is no implied warranty that the instrument will maintain its specified tolerances during the calibration interval due to possible drift, environment, or other factors beyond our control.

Broadband Horn Antenna *Dual Ridged Horn*



Description:

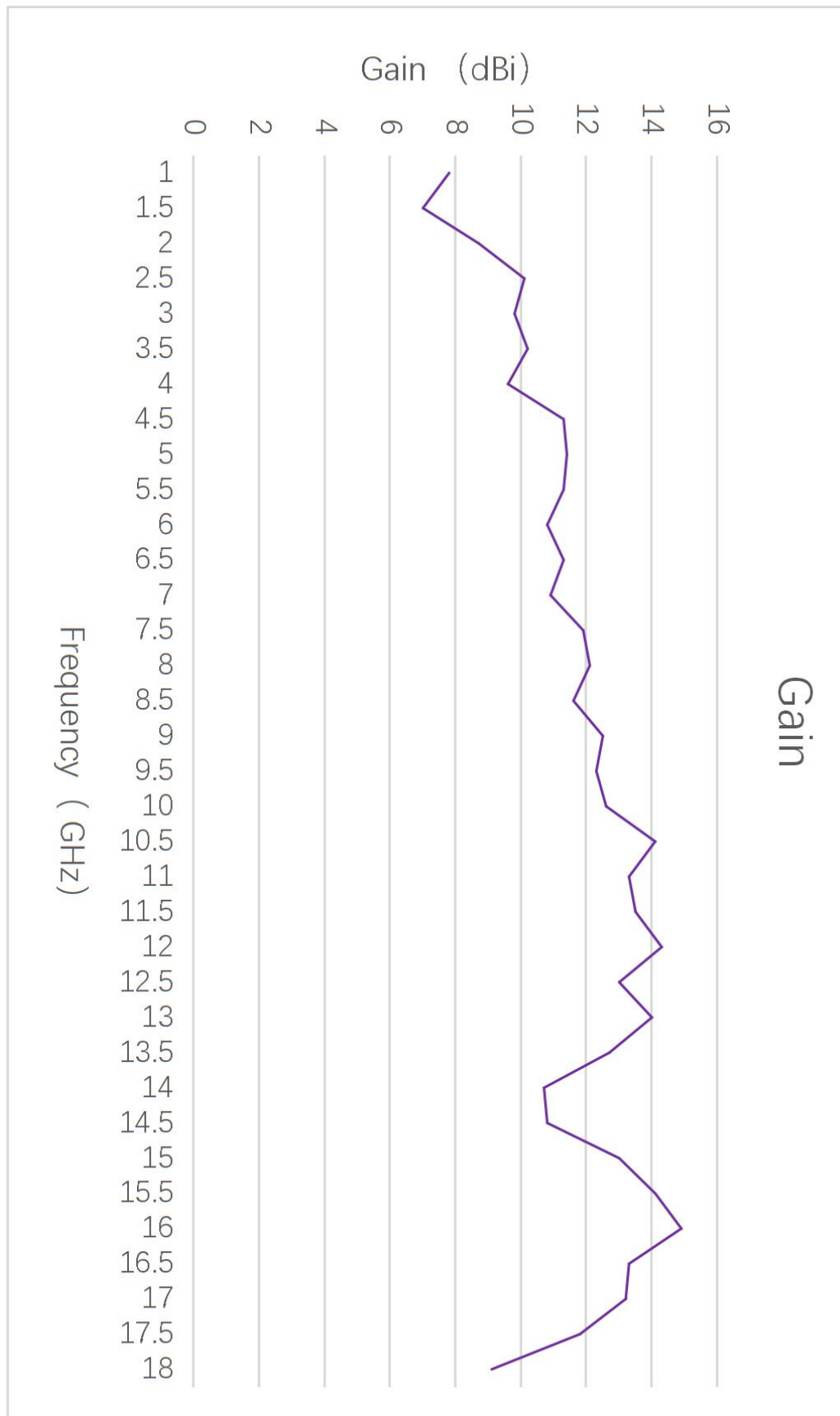
Broadband Horn Antenna for EMC/EMI
Gain Test System Applications.

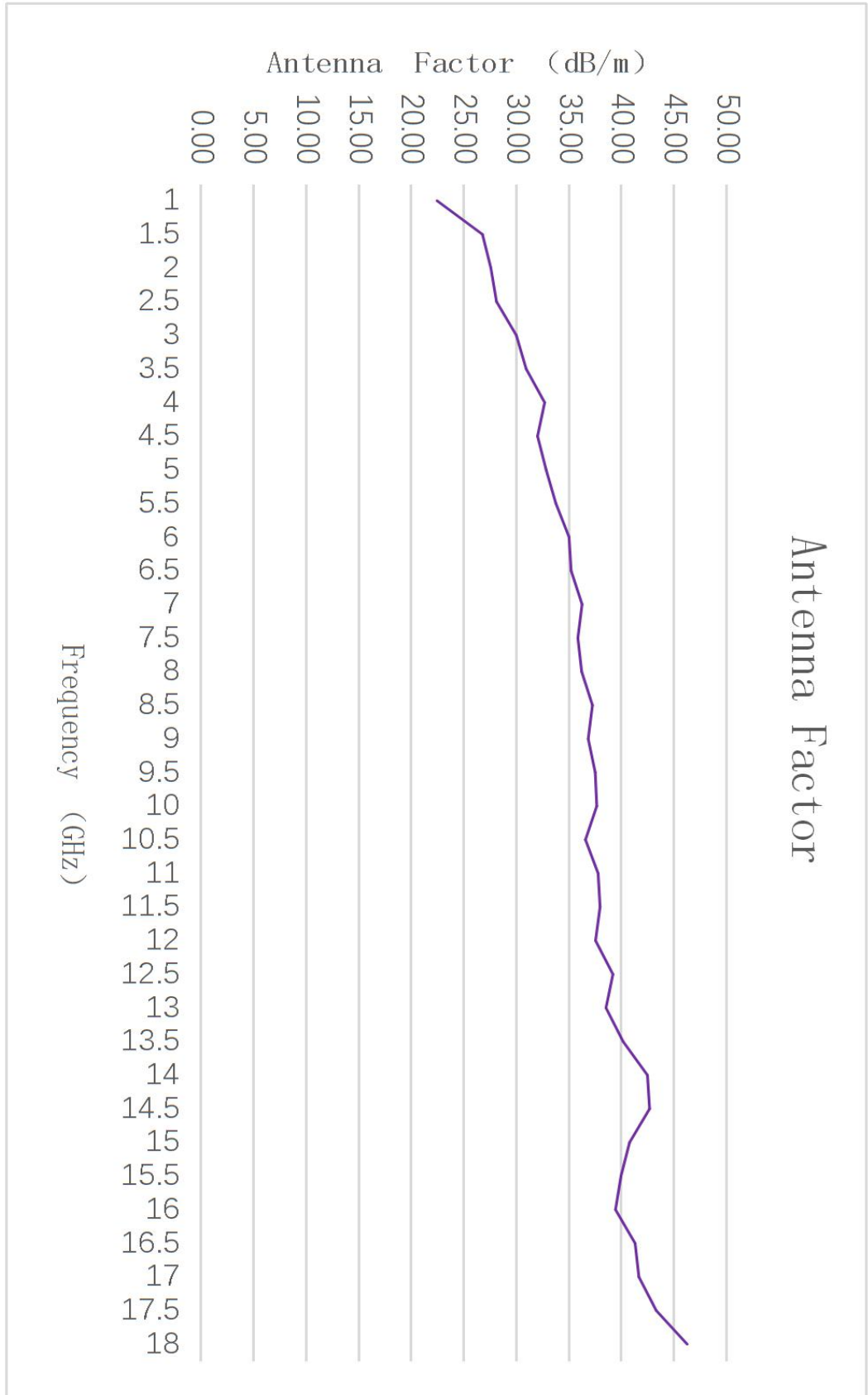
Specifications:

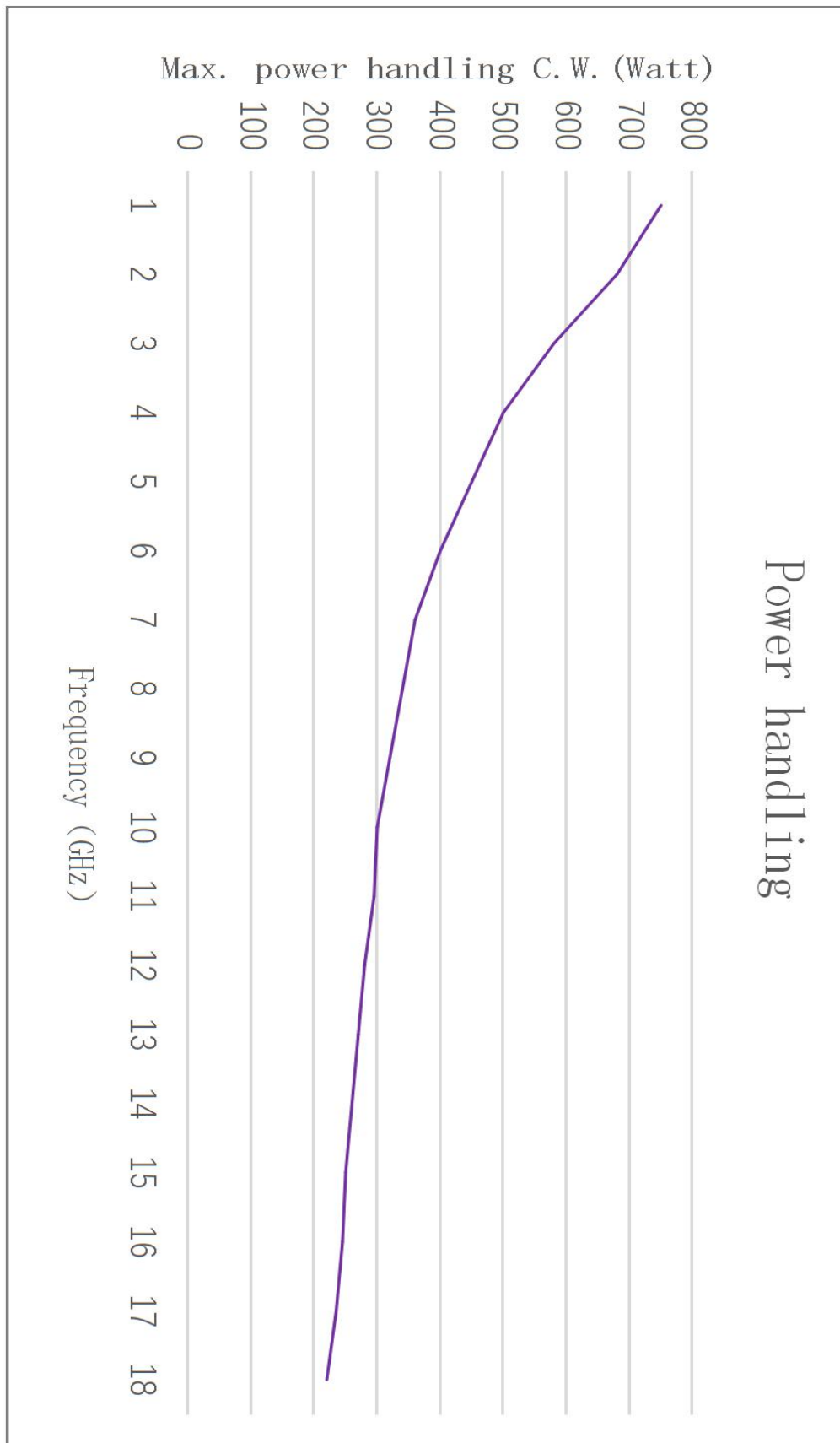
Nominal Frequency Range:	1GHz...18GHz
Usable Frequency Range:	900MHz ... 18GHz
Isotropic Gain:	7-15 dBi
Antenna Factor:	22-47dB/m
Nominal Impedance:	50 Ω
Standing Wave Ratio SWR typical:	≈ 1.8
Front to Back Ratio:	> 25 dB
Cross Polarisation:	> 25dB(1GHz...18GHz)
3 dB Beamwidth typ. (E-Plane):	80° ... 40.2°
3 dB Beamwidth typ. (H-Plane):	70° ... 30.5°
Max. Input Power:	see diagram
N-Connector female	
Mount: Custom design	
Width x Length x Thickness:	159×207×245mm
Weight:	1.63kg

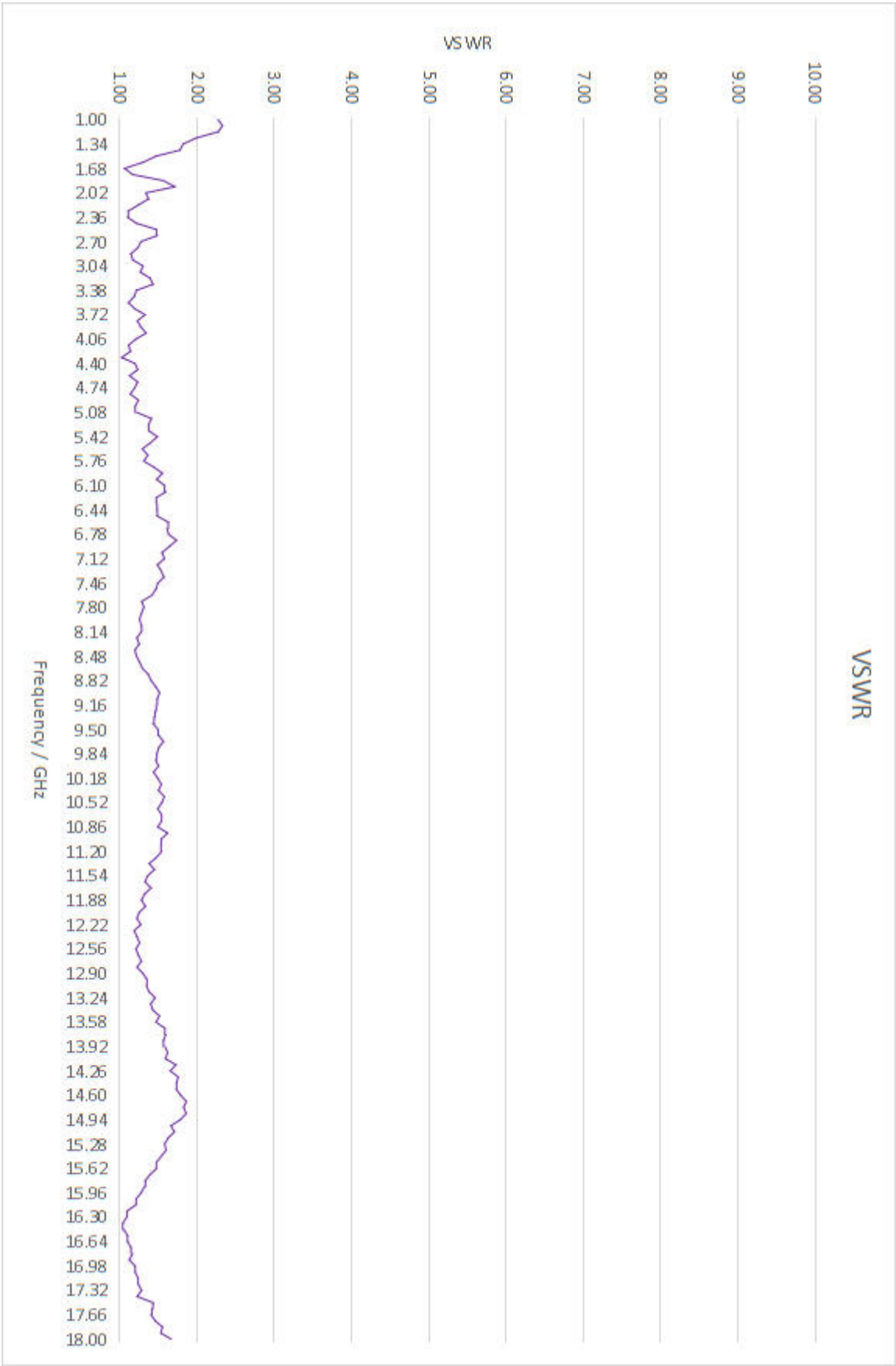
Frequency GHz	Max Gain over Frequency dBi	Ant.-Factor dB/m
1	7.80	22.42
1.5	7.00	26.74
2	8.70	27.54
2.5	10.10	28.08
3	9.80	29.96
3.5	10.20	30.90
4	9.60	32.66
4.5	11.30	31.98
5	11.40	32.80
5.5	11.30	33.73
6	10.80	34.98
6.5	11.30	35.18
7	10.90	36.22
7.5	11.90	35.82
8	12.10	36.18
8.5	11.60	37.21
9	12.50	36.80
9.5	12.30	37.47
10	12.60	37.62
10.5	14.10	36.54
11	13.30	37.75
11.5	13.50	37.93
12	14.30	37.50
12.5	13.00	39.16
13	14.00	38.50
13.5	12.70	40.13
14	10.70	42.44
14.5	10.80	42.65
15	13.00	40.74
15.5	14.10	39.93
16	14.90	39.40
16.5	13.30	41.27
17	13.20	41.63
17.5	11.80	43.28
18	9.10	46.23

Calibration Uncertainty (k=2):
Frequency range $f < 10$ GHz
Frequency range $10 \text{ GHz} < f < 20$ GHz

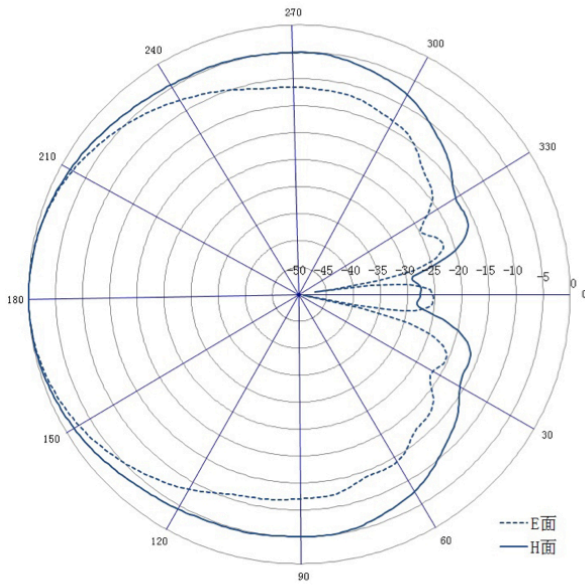




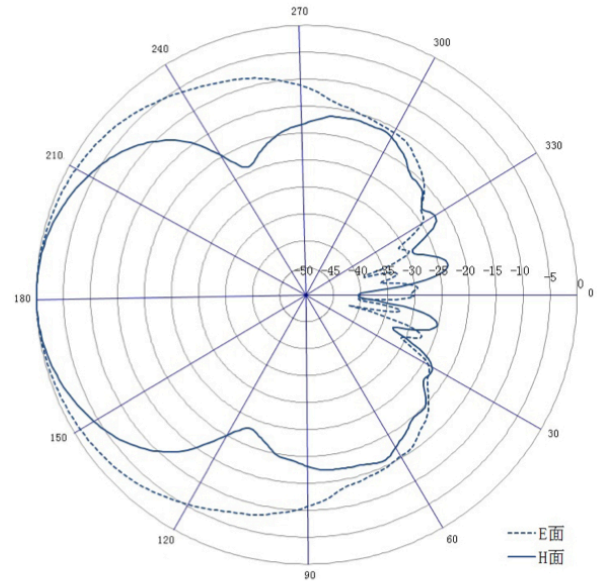




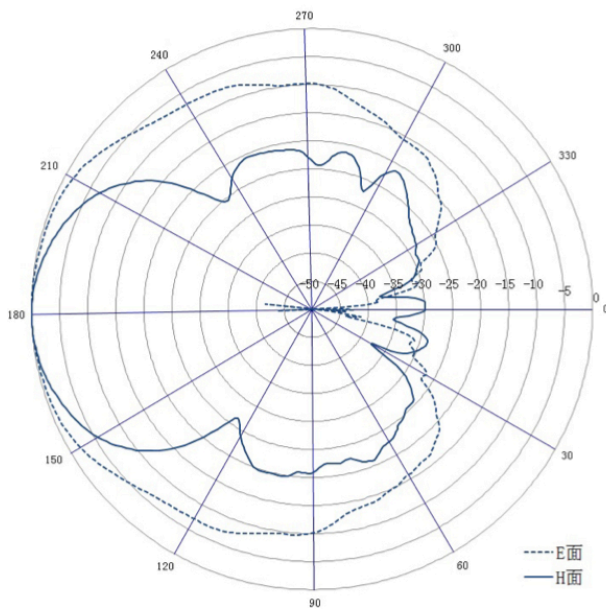
1GHz



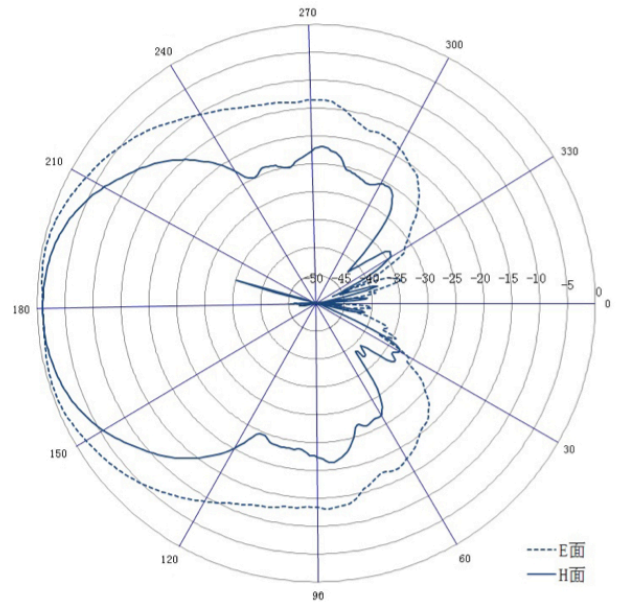
2GHz



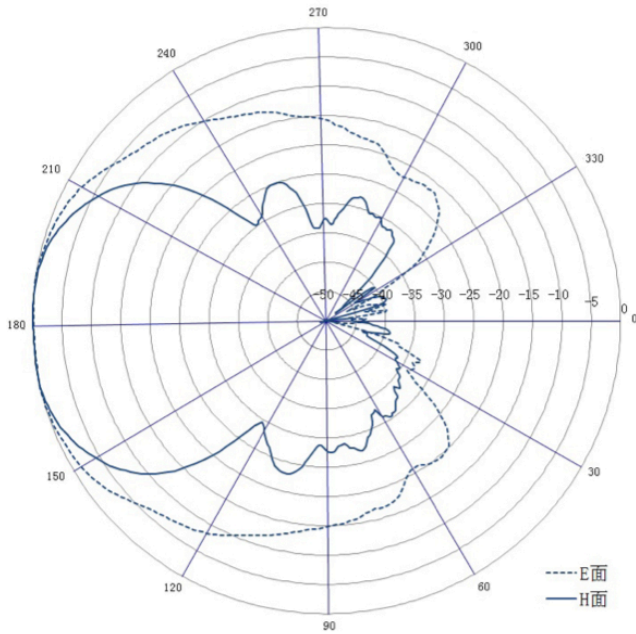
3GHz



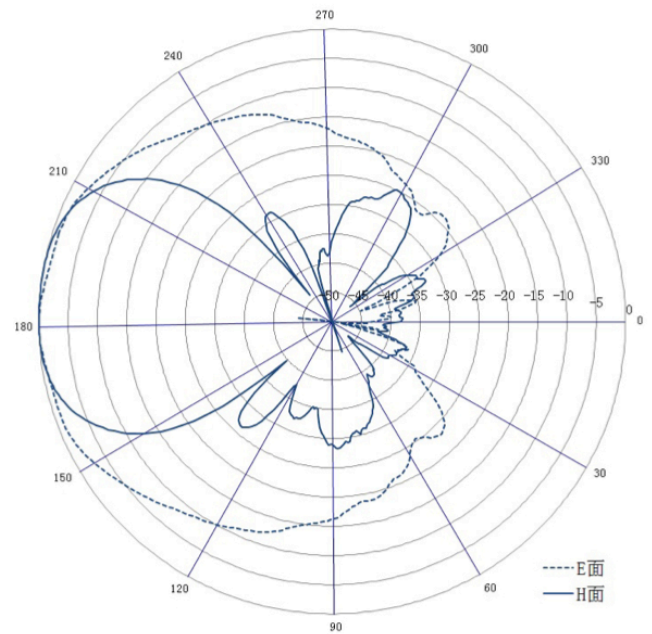
4GHz



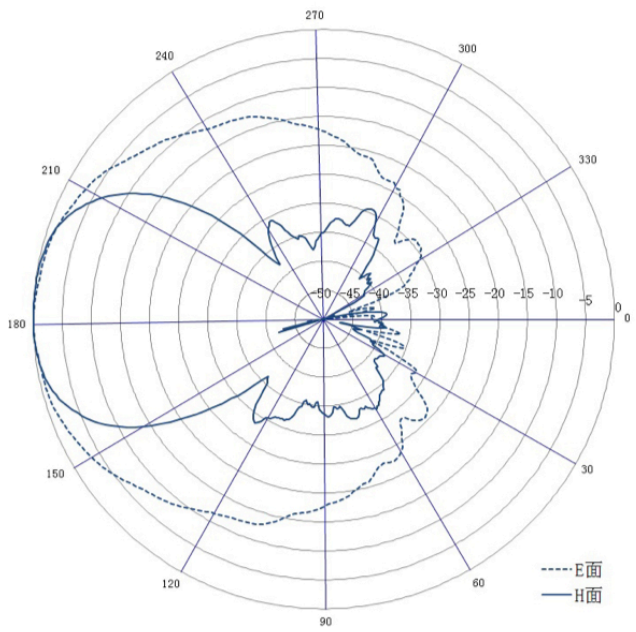
5GHz



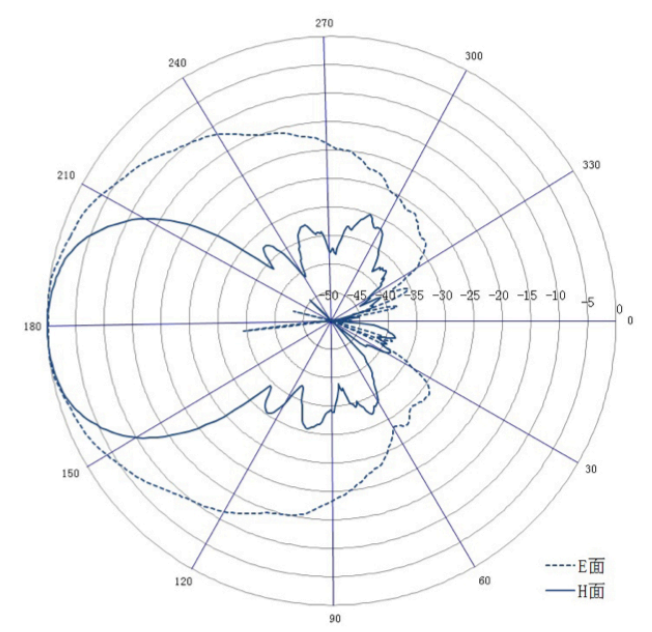
6GHz



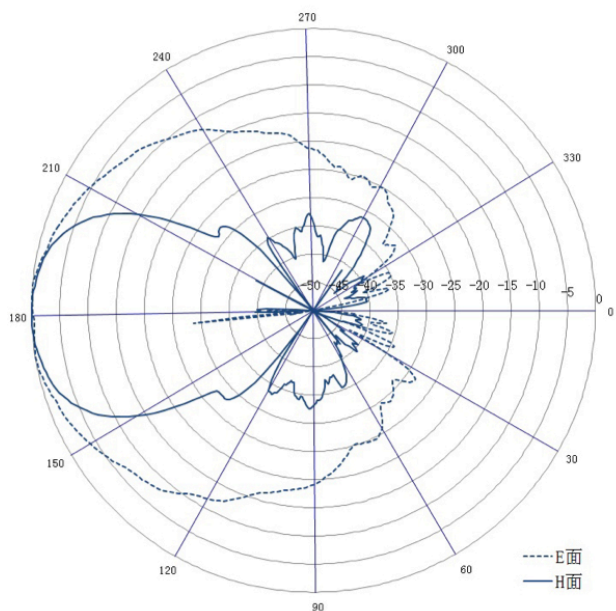
7GHz



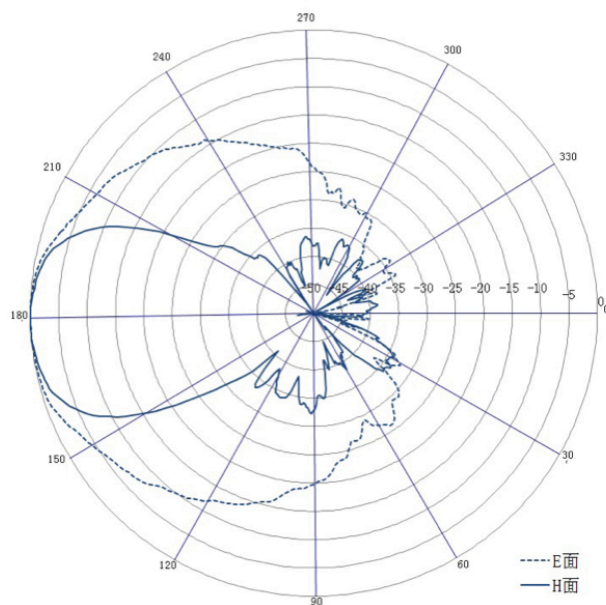
8GHz



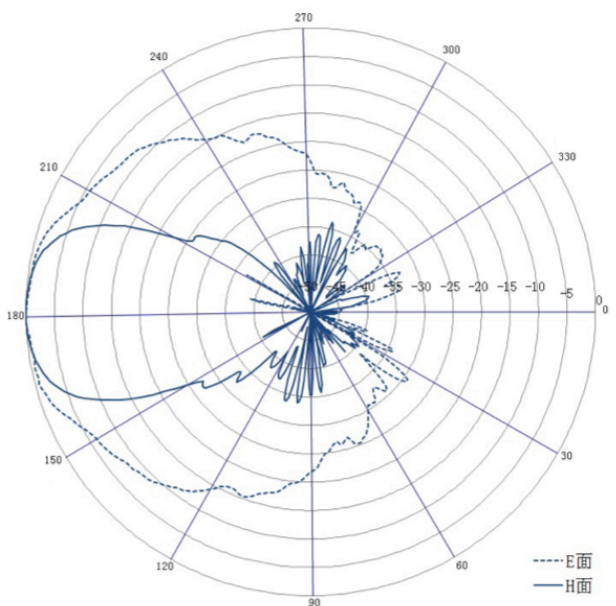
9GHz



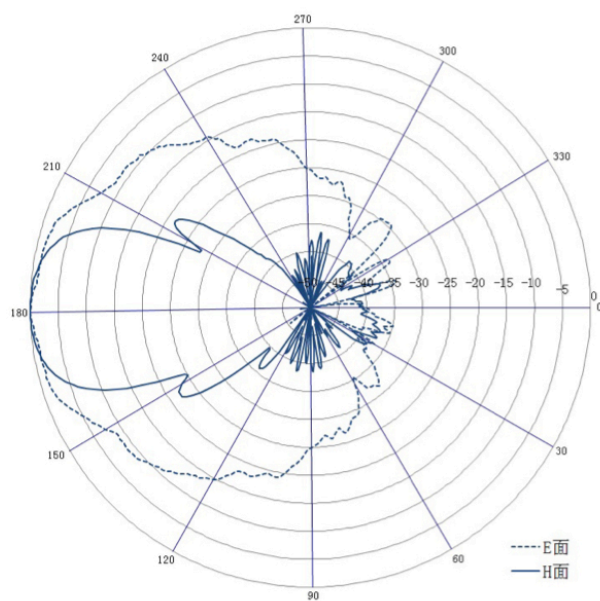
10GHz



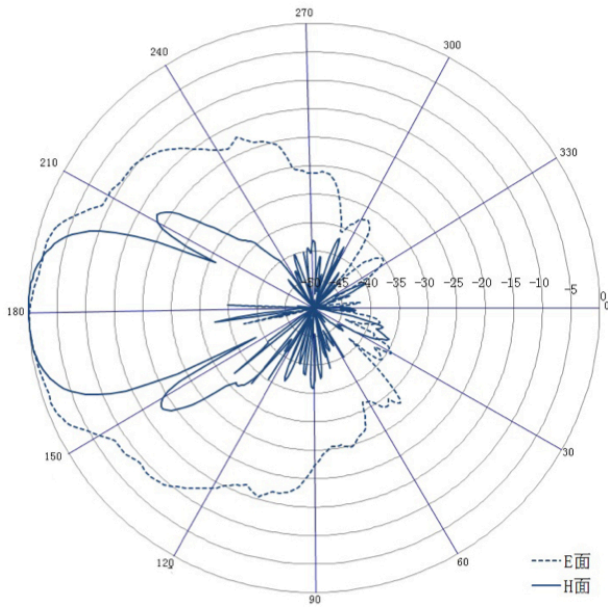
11GHz



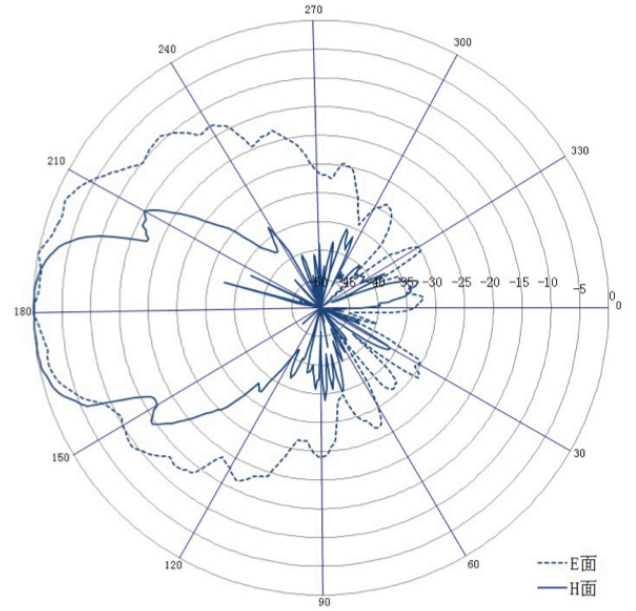
12GHz



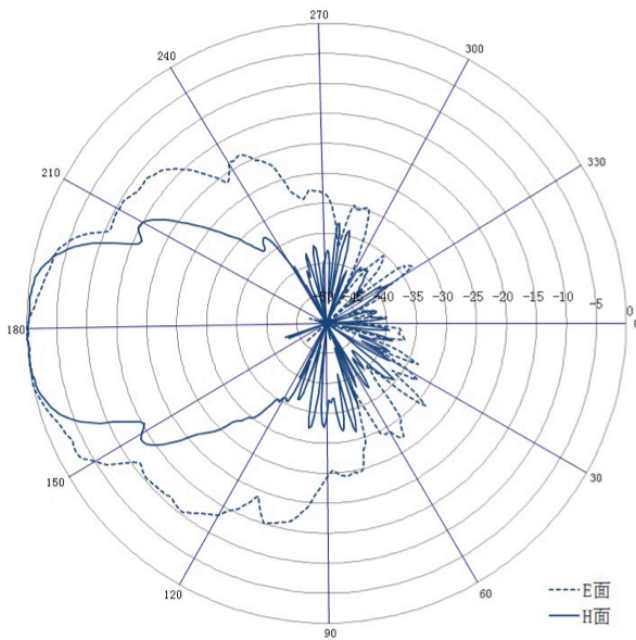
13GHz



14GHz



15GHz



16GHz

