



KBT85VP08-0809142458AT0 Directional Antenna

Product Approval Certificate

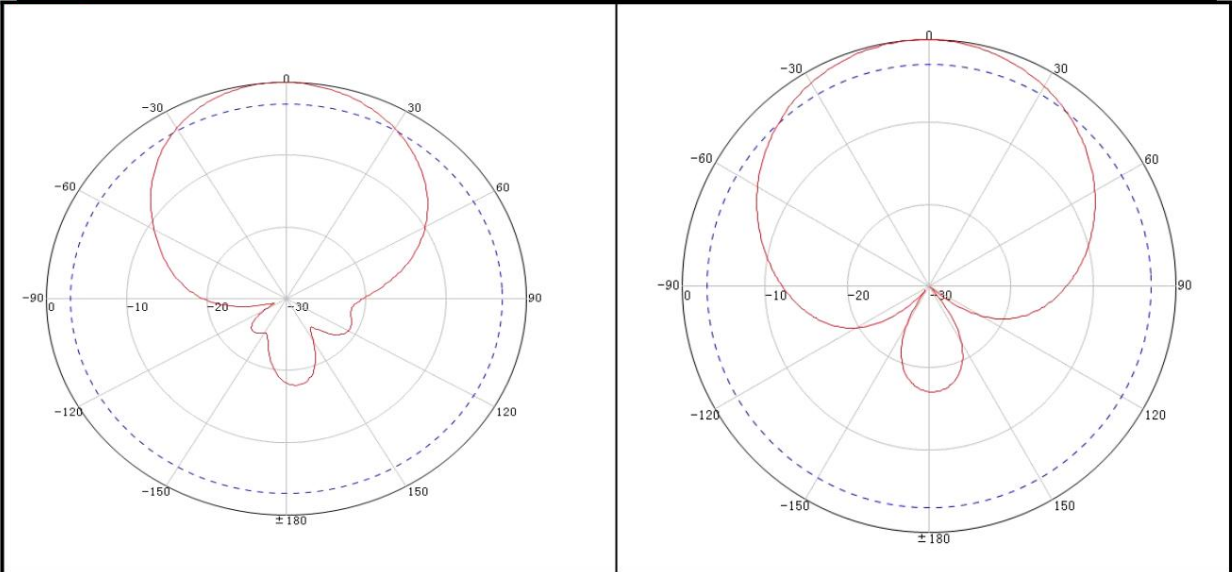
Approval Sheet

Supplier Name	Guangdong Jianbotong Technology Co., Ltd.			
Customer Name	Shenzhen Autel Intelligent Aviation Technology Co., Ltd.			
Product Name	Five-band directional antenna for relay base station			
Supplier material code	11183040001			
Customer material code	501007181			
Product Model	KBT85VP08-0809142458AT0			
Network support	800MHz & 900MHz & 1.4GHz & 2.4GHz & 5.8GHz WiFi system			
Frequency range	832~862/900~930/1410~1470/2400-2500/5150-5900			
Manufacturer Model	KBT85VP08-0809142458AT0			
Submission Date	2025.06.06			
Version	V1.0			
APPROVED BY VENDOR				
confirm	Proofreading	Review	approve	time
Shen Pingyuan	Lu Yiwen and Zhao	Liming		2025.06.06

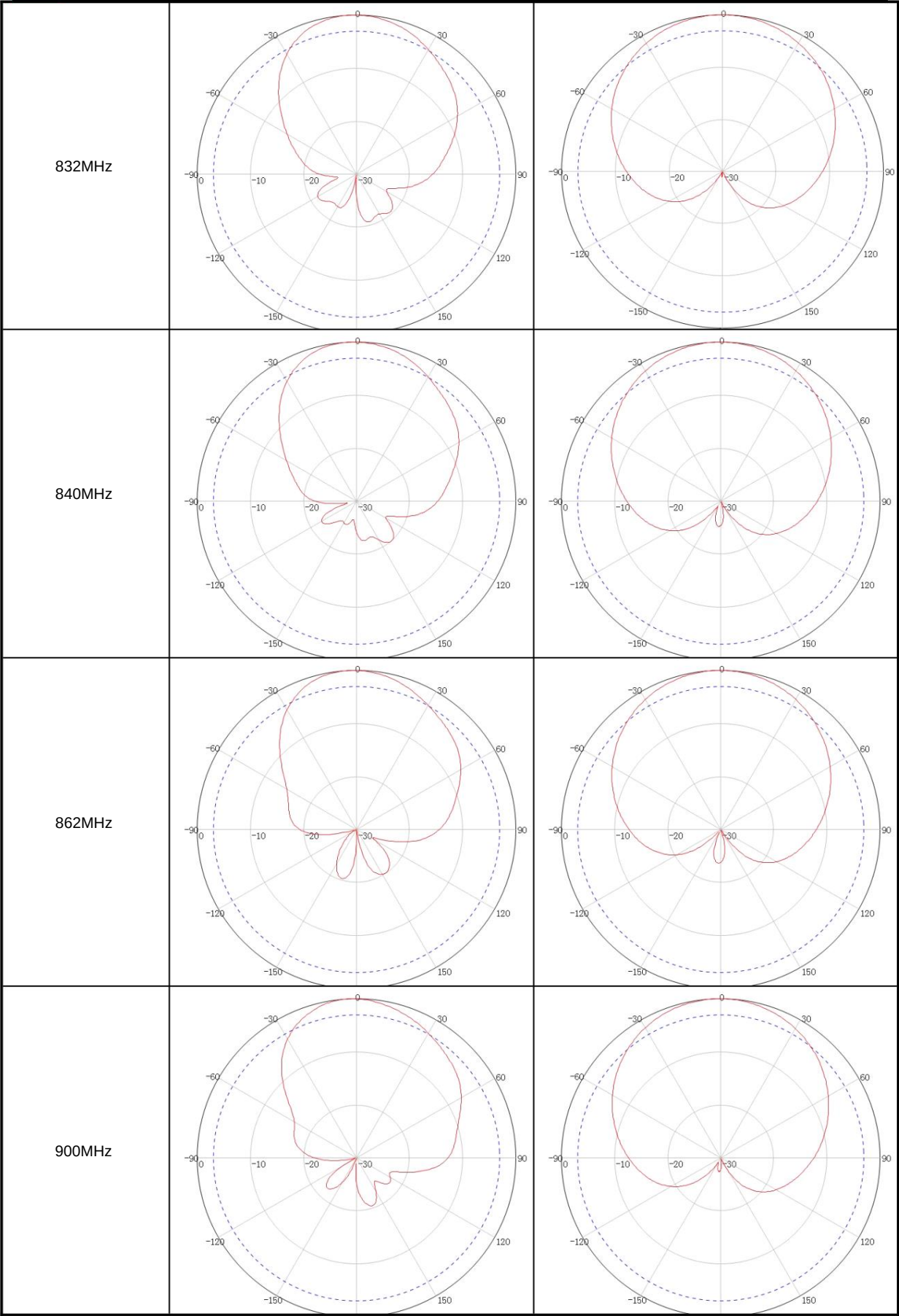


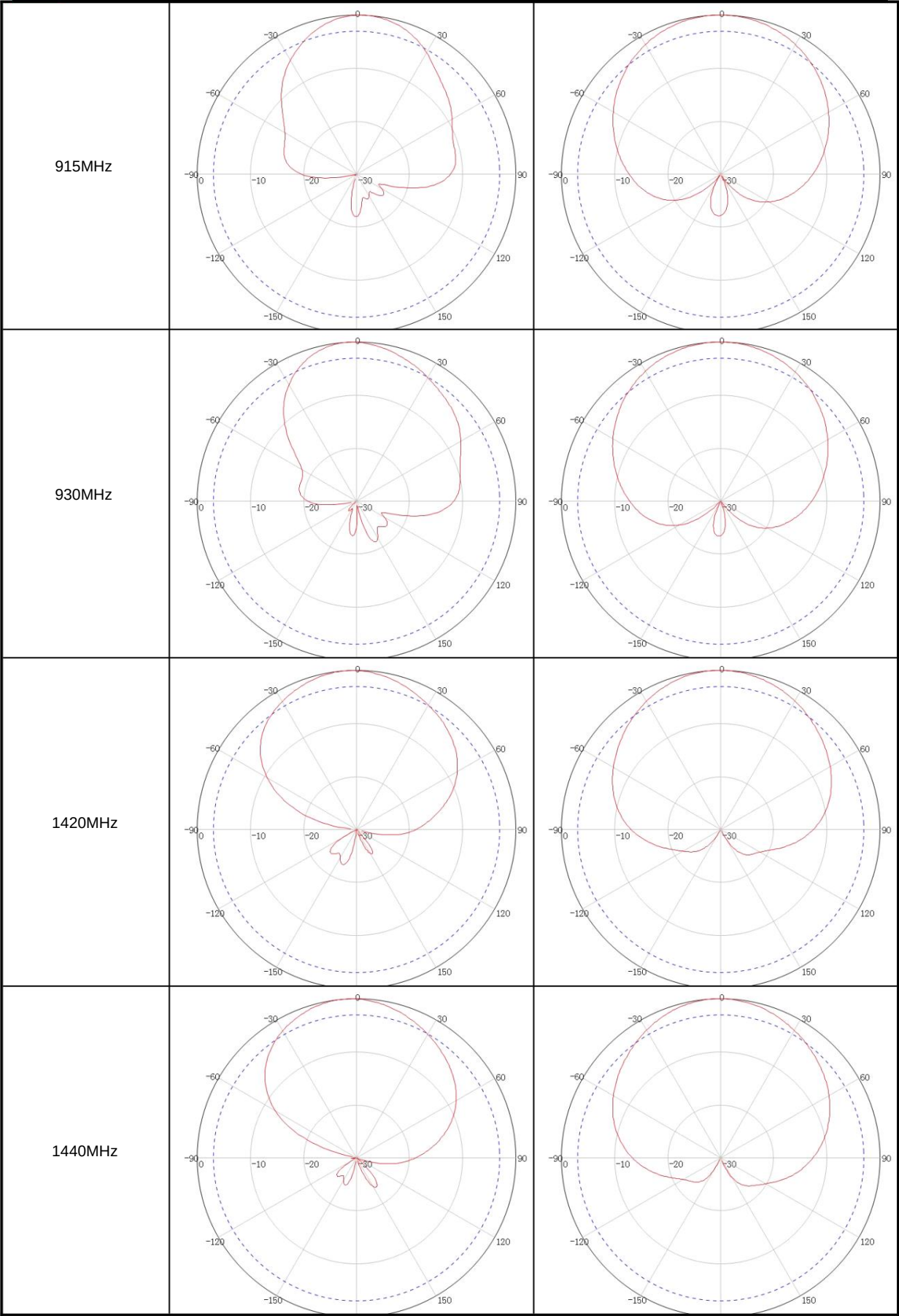
Electrical and Mechanical Performance

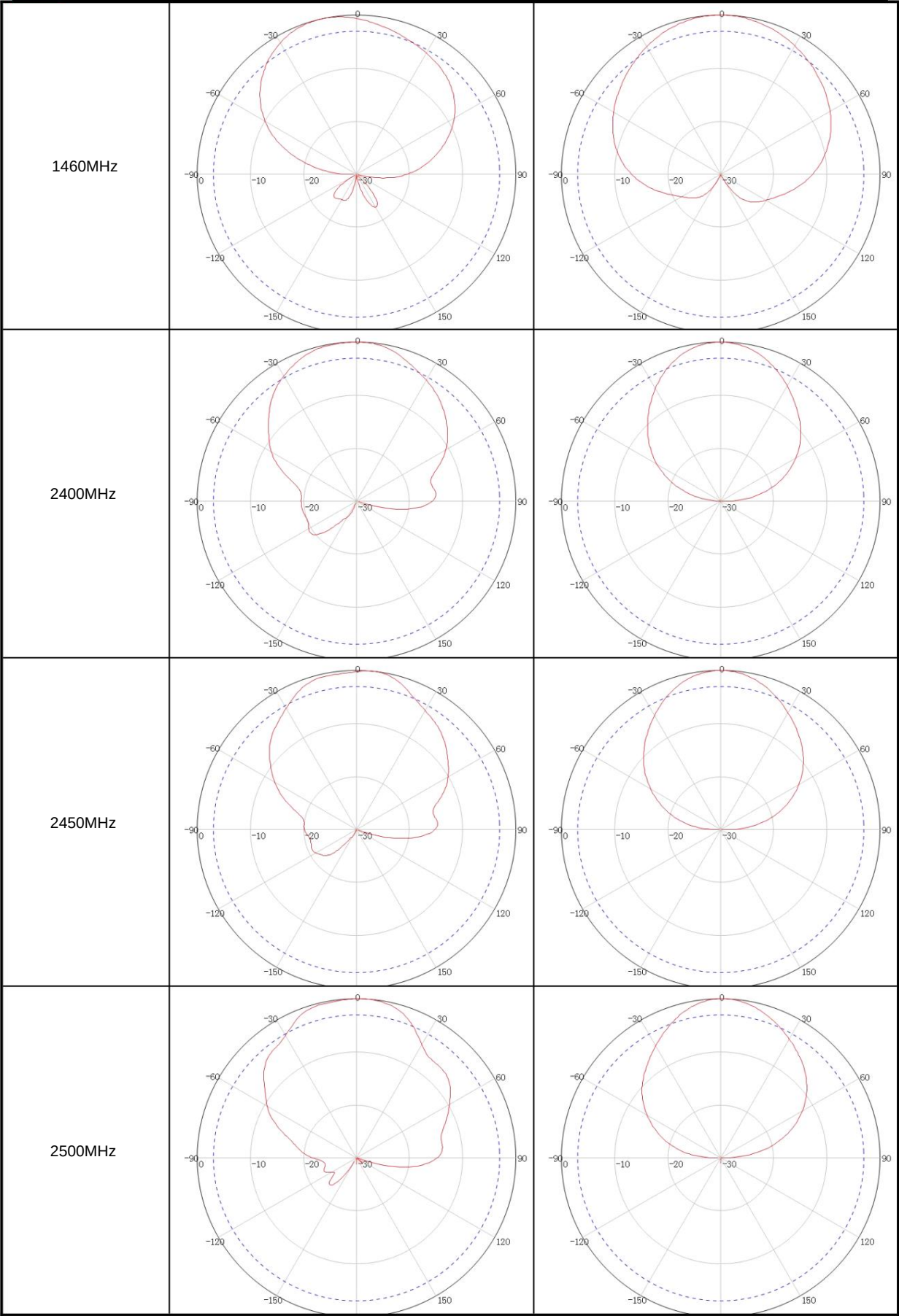
Electrical Specification	
Operating frequency band	832~862/900~930/1410~1470/2400-2500/5150-5900
(MHz), gain (dBi),	8±1
voltage standing	≤2/≤3(Max)@5150-5900
wave ratio, polarization mode	Vertical polarization
Horizontal beamwidth (°)	85@832-862/900-930, 72@1410-1470, 45@2400-2500/5150-5900 (reference)
Vertical beamwidth (°)	57@832-862/900-930, 65@1410-1470, 53@2400-2500/5150-5900 (reference)
Front-to-back ratio	≥17
(dB) Input impedance (Ω)	50
Maximum power (W)	2(Max)
Lightning protection	/
Mechanical Specifications	
Connector	N-type female connector
type, connector	antenna bottom
location, antenna size	480*287*132
(mm), packaging size (mm)	/
Antenna weight (kg)	3.8±0.1 (including clamping)
Clamp weight (kg)	/
Radome material	PVC
Radome color	grey
Operating temperature	-40 ~ +70
(°C) Operating	5 ~ 95
humidity (%) Maximum	60
wind speed (m/s) Salt	96-hour neutral salt spray (GB/T 2423.17-2008)
spray duration (h) Waterproof rating	IP65 (Test for plugging leaks)
Pole diameter (mm)	50~70
Mounting component model	JM-VB1
Jumper	/
configuration: Jumper length	/
(cm) Connector configuration	/
Radiation pattern	
Typical vertical plane orientation pattern	Typical horizontal plane orientation diagram

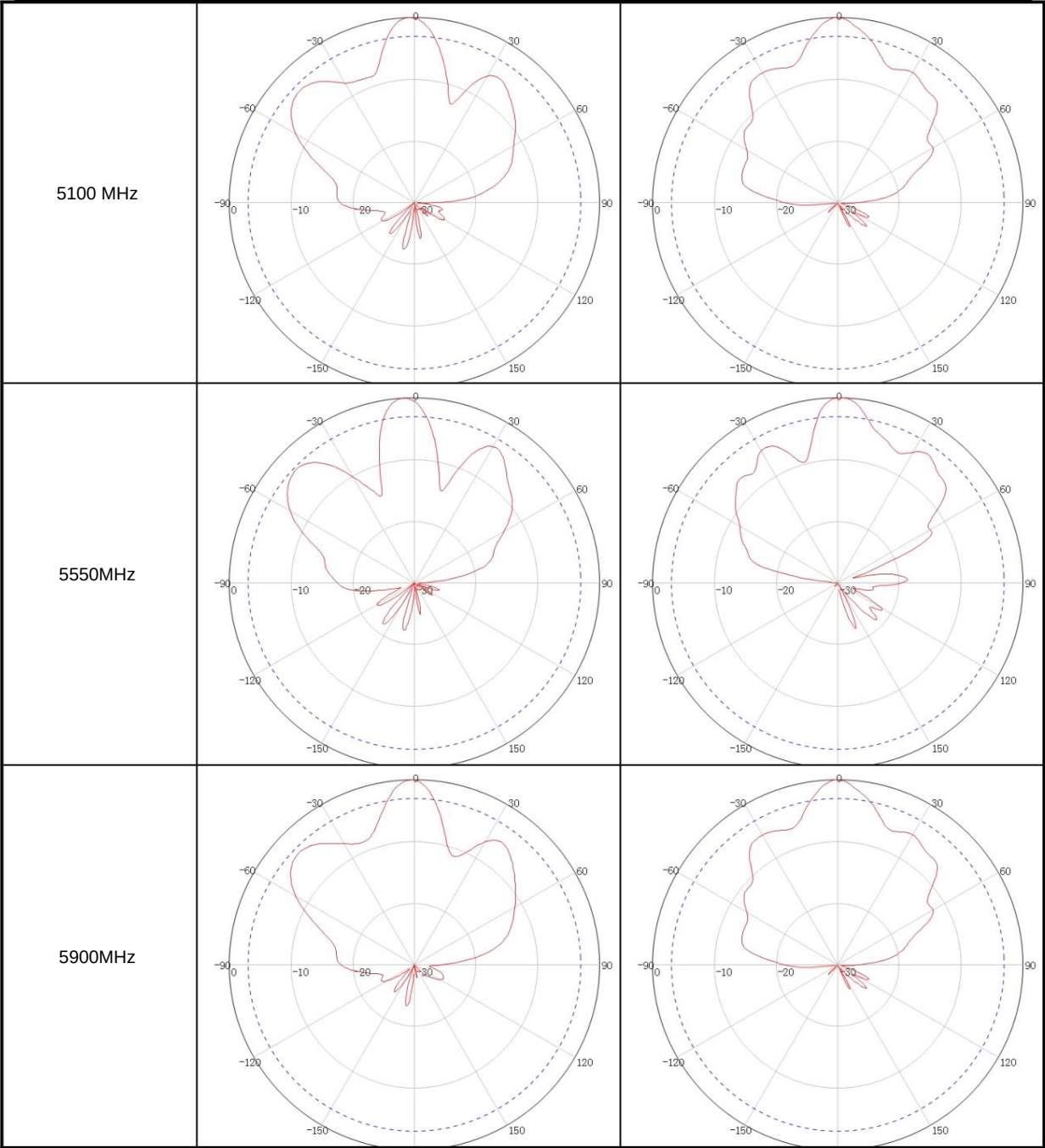


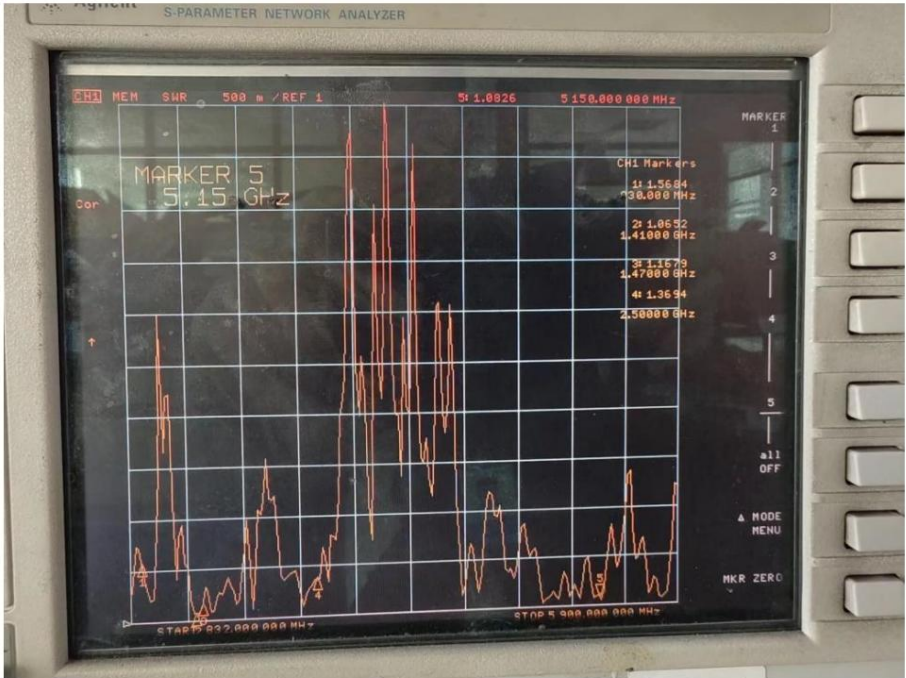
Performance Test Report					
Test Project	Gain	Vertical plane 3dB wave Lobe width - typical value	3dB wave on horizontal plane Petal width	Before and after comparison	
Indicator Requirements	8	57@832~ 862/900~ 930,65@1410~ 1460,53@2400-2 500/25@5150-59 00 (reference)	85@832~ 862/900~ 930,72@1410~ 1460,45@2400-2 500/28@5100-59 00 (reference)	≥17	
832MHz	8.2	57.71	82.44	26.5	
840MHz	8.48	57.04	81.28	25.22	
862MHz	8.06	57.04	80.49	23.68	
900MHz	7.8	57.08	78.85	26.89	
915MHz	8.01	58.96	78.35	22.15	
930MHz	7.96	53.77	78.11	23.39	
1420MHz	8.06	66.87	74.15	27.9	
1440MHz	8.14	62.92	71.9	25.71	
1460MHz	8.17	61.08	72.96	27.42	
2400MHz	9.45	57.02	44.15	32.6	
2450MHz	9.7	51.62	45.09	33.9	
2500MHz	9.74	51.83	44.47	29.04	
5100MHz	8.8	24.67	26.4	22.27	
5550MHz	7.5	27.64	29.9	19.19	
5900MHz	7.56	20.3	26.4	17.4	
2D radiation pattern					
frequency	vertical plane		level		









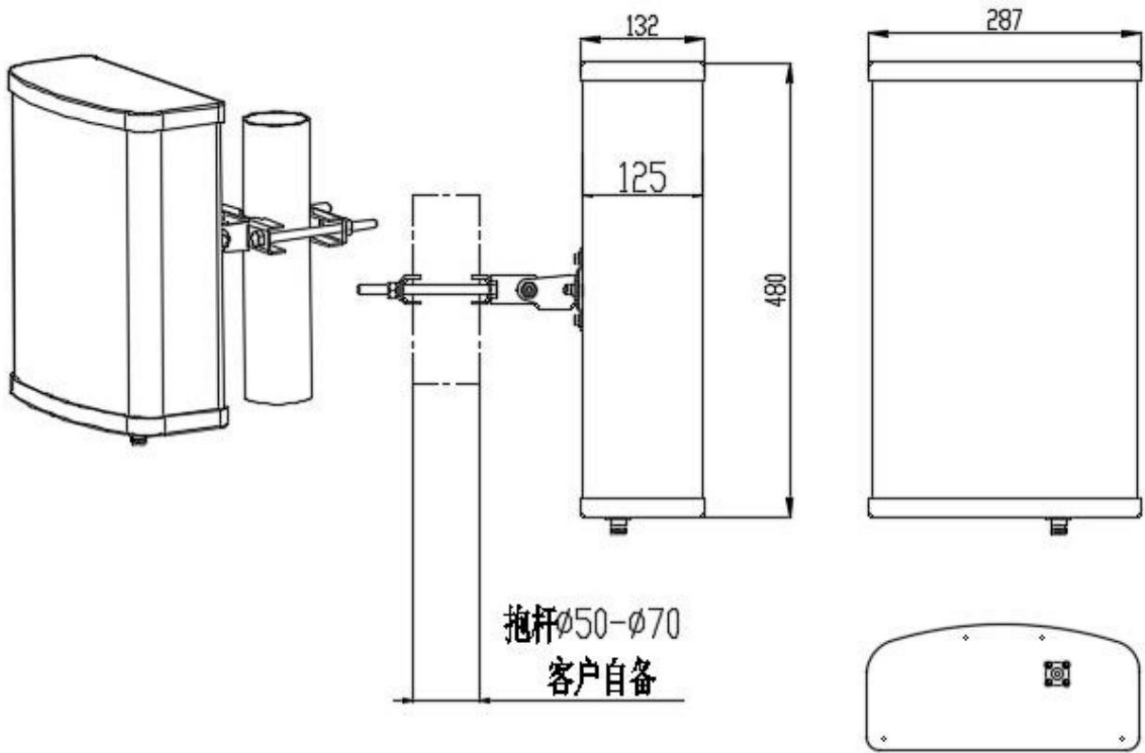


2. Antenna appearance drawing and installation diagram



Antenna physical image

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Antenna structure dimensions and installation diagram

3. Packing List

name	Five-band directional antenna			
Model Specifications	KBT85VP08-0809142458AT0			
Serial Number	describe	quantity	unit	Remark
1	antenna	1	vice	
2	Technical Specifications	1	open	
3	Certificate of Conformity	1	open	
4	Clip	1	set	
5	Clamp fastening screws	4	set	Includes flat washers, spring washers, and nuts.