



No. : ZJ-2023081703

TEST REPORT

Product Name: Panel Antenna

Model: KDP2N-D2458L13BWB

Test Sort: Type inspection

Client: PD

Test date: August 17 2023

Kenbotong Technology Co., Ltd.
Testing Center

KBT-OP-10026-2/00-1

Test Report

Sample name	Panel Antenna	Sample Amount	1
Model	KDP2N-D2458L13BWB	Product Trademark	KBT
Client	PD		
Product department	The PD of Kenbotong Technology Co., Ltd.		
Test place.	The testing center of Kenbotong Technology Co., Ltd.		
Date Received	August 17 2023	Test date	August 17 2023
Test Conditions	Temperature: 22	Relative Humidity: 55%	Atmospheric pressure:/
Test Items	Frequency range ,Gain ,Beam width,Antenna 2D pattern ,VSWR,F/B		
Testing Regulations	GB/T 9410-2008 General specification for antennas used in mobile communications Kenbotong Technology Co., Ltd. Omni Antenna Specifications.		
Test Profile and Analysis	According to the standard and the requirements from the client , the performance of Omni Antenna of KDP2N-D2458L13BWB at normal temperature have been tested.		
Testing Conclusion	☒ Passed ☐ Failed Test Appropriative cachet		
Test by:	Checked by:	Approved by:	
Hongliang Fan Date: 2023.8.17	Zhihui Ou Date: 2023.8.17	ze ji Luo Date: 2023.8.17	



Performance of the Antenna at Normal Temperature

No.	Examination item	Requests of index	Units	Test results		Decide
1	Frequency range	2400-2483/5150-5850	MHz	2400-2483/5150-5850		Passed
2	Gain	13	dBi	2400 MHz	13.97	Passed
				2450 MHz	13.74	
				2500 MHz	13.92	
				5150 MHz	12.9	
				5550 MHz	13.96	
				5850 MHz	13.48	
3	VSWR	≤1.5/≤2.0	/	≤1.21/≤1.65 (chart1)		Passed
4	Ver. Beam width	30	°	2400 MHz	35.25	Passed
				2450 MHz	34.78	
				2500 MHz	33.39	
				5150 MHz	30.01	
				5550 MHz	27.31	
				5850 MHz	29.27	
5	Hor. Beam width	30	°	2400 MHz	32.92	Passed
				2450 MHz	32.9	
				2500 MHz	32.21	
				5150 MHz	32.86	
				5550 MHz	29.61	
				5850 MHz	26.64	
6	F/B	≥25	dB	2400 MHz	25.49	/
				2450 MHz	25.65	
				2500 MHz	26.58	
				5150 MHz	29.23	
				5550 MHz	30.17	
				5850 MHz	29.99	
7	pattern	/	/	patterns		Passed
8	Polarization	Vertical & Horizontal	/	Vertical & Horizontal		Passed
Decide; Requests by the client , All specifications under test are passed.						

The VSWR at Normal Temperature

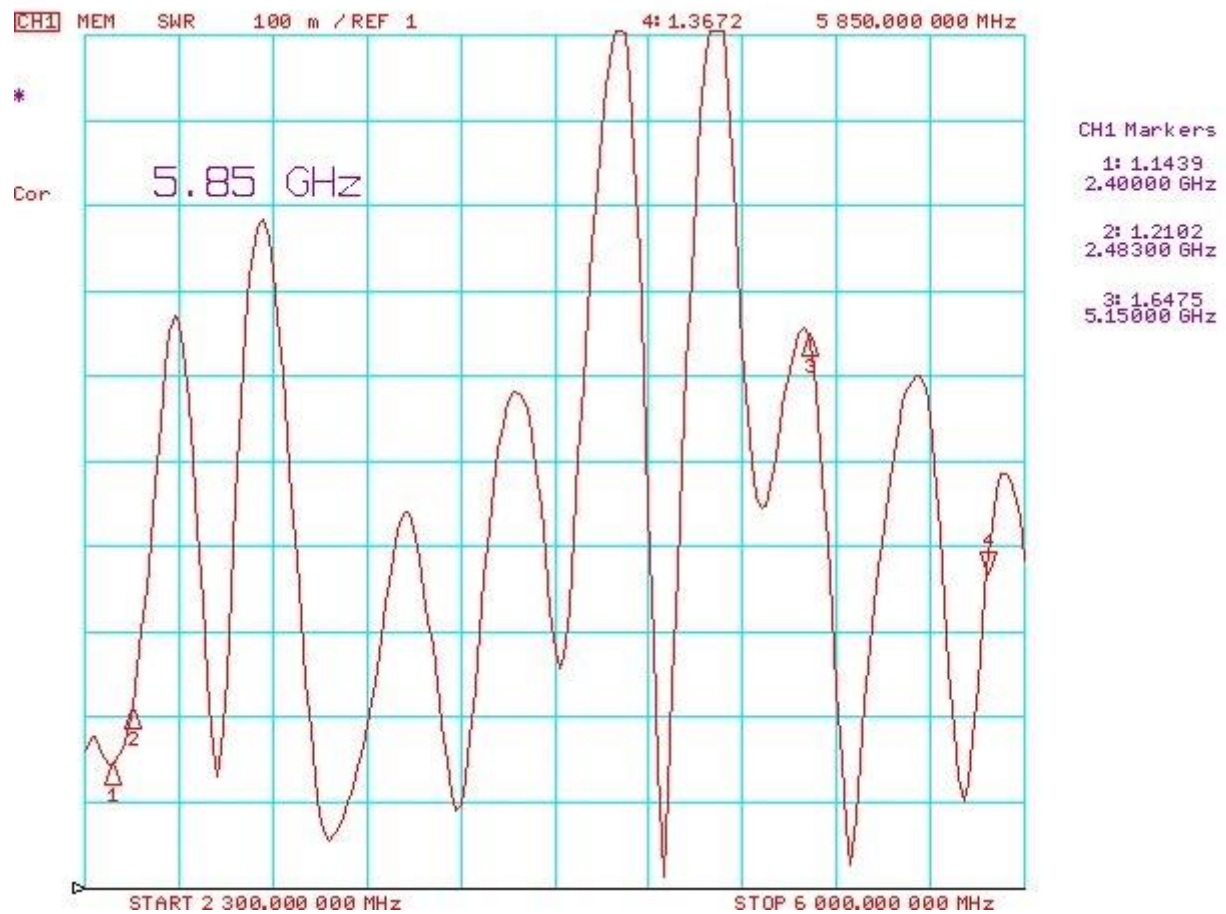
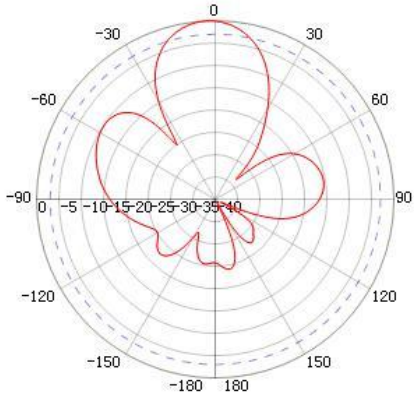
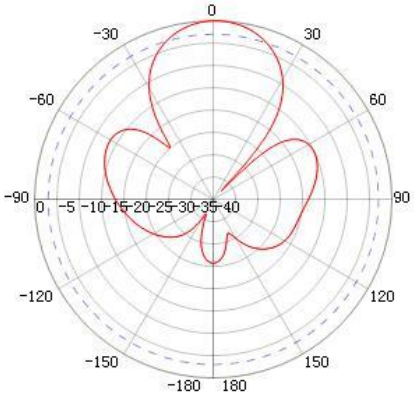
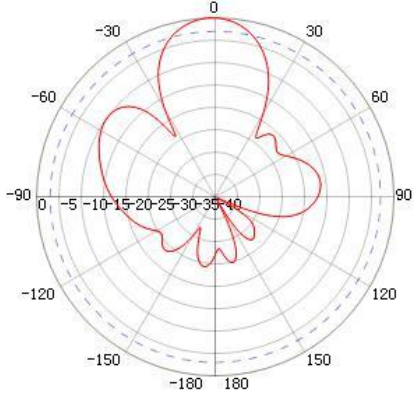
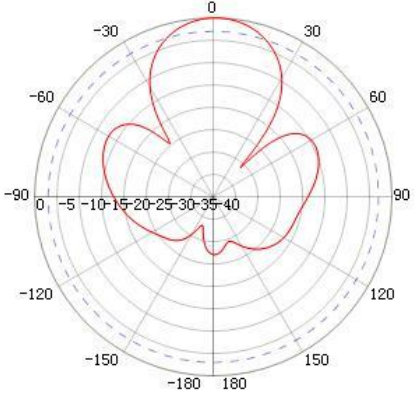
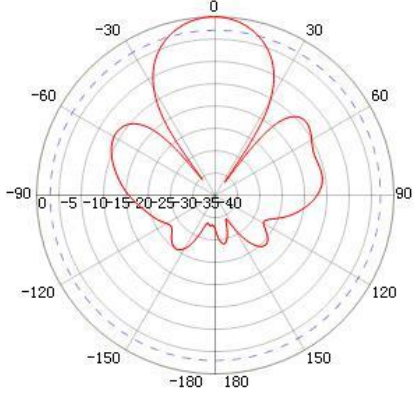
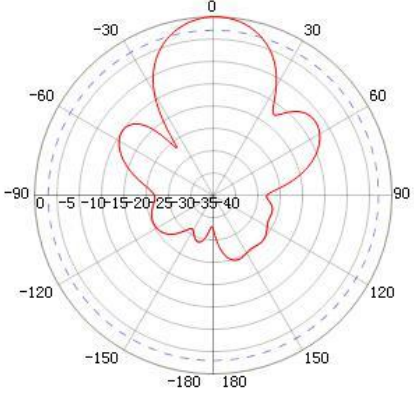
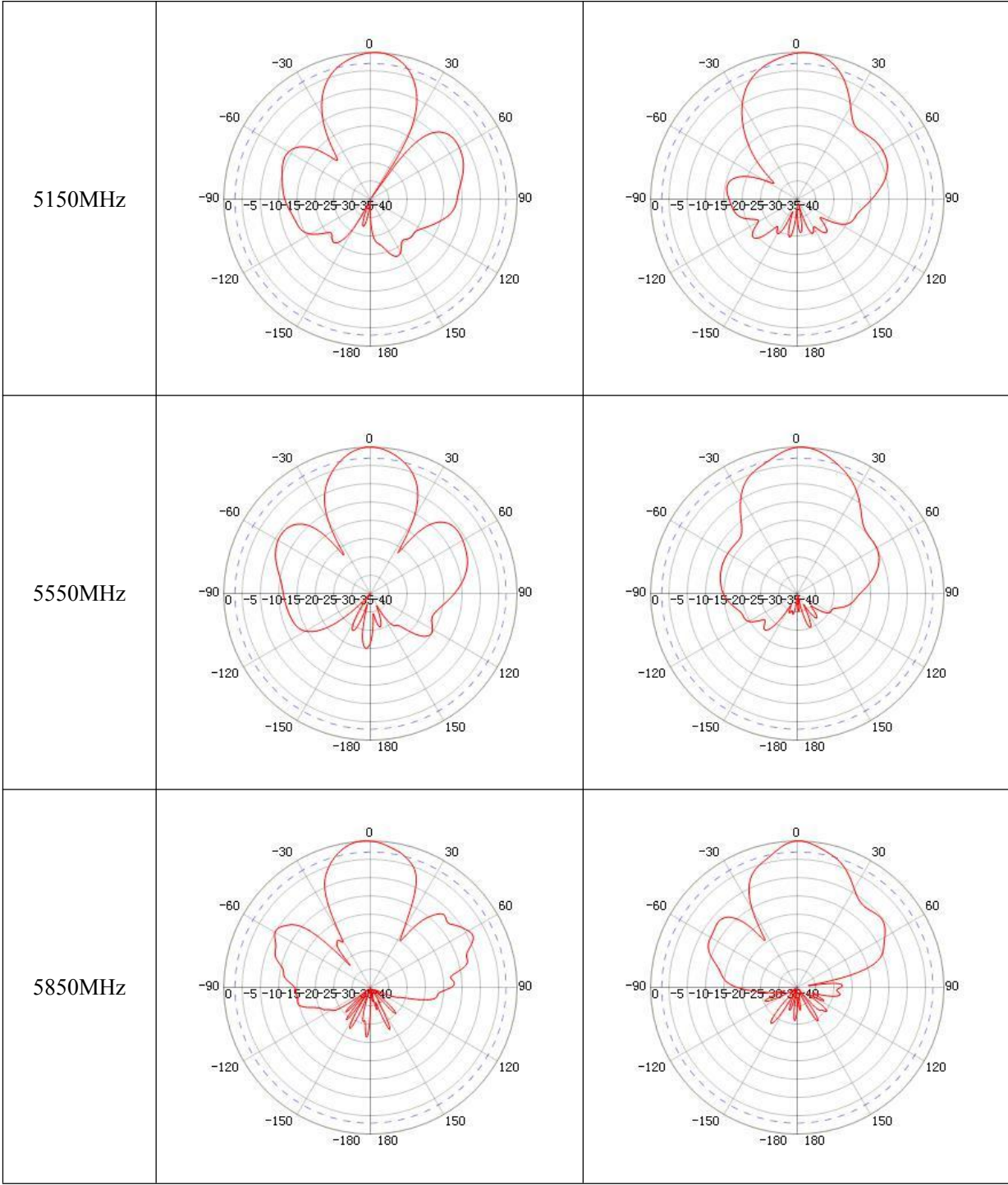


Chart1

The Pattern at Normal Temperature

Freq	E Pattern	H Pattern
2400MHz		
2450MHz		
2500MHz		



Devices been used

No.	Name	Model	Period of Validity
1	Test Systems	SG64	Within Effective Date
2	Standard Gain Antenna	SH-400	Within Effective Date