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Acknowledgement

FIRST ARTICLE REPORT

customer name : _____

Customer model: J 2 0_____

Antenna screen printing: J20-FPC-

v1.2 Date: 2025.05.28_____

Approved by: Kang Zhongzhu_____

Customer con- firmation			
Character	Research and development	Purchase	Approval

Please sign a letter of recognition for our company. Thank you!

type : ☒Sample First Batch☐multitudinous

Catalogue

1. test tools..... 2

2. essential information..... 3

3. Antenna Info..... 4

4. Gain efficiency..... 5

5. Gain efficiency..... 6

6. Active OTA free space test data..... 7

7。 schedule drawing..... 8

1. Test Tools

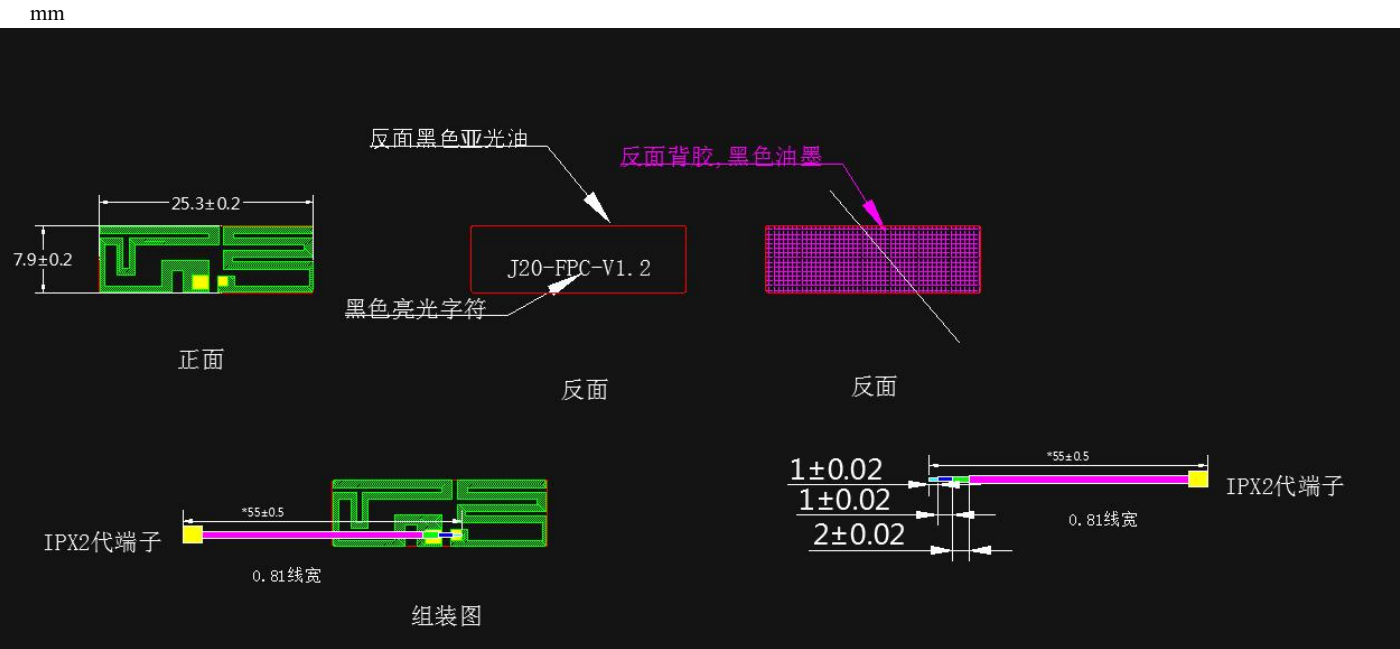
Comprehensive tester	Agelent Technologies E5071B & R&S CMW500
Darkroom	Atenlab M3
Quality Testing Engineer	Zhuang Zhicheng
temperature	25℃
Humidity	65%（RH）



2。 Essential Inf-ormation

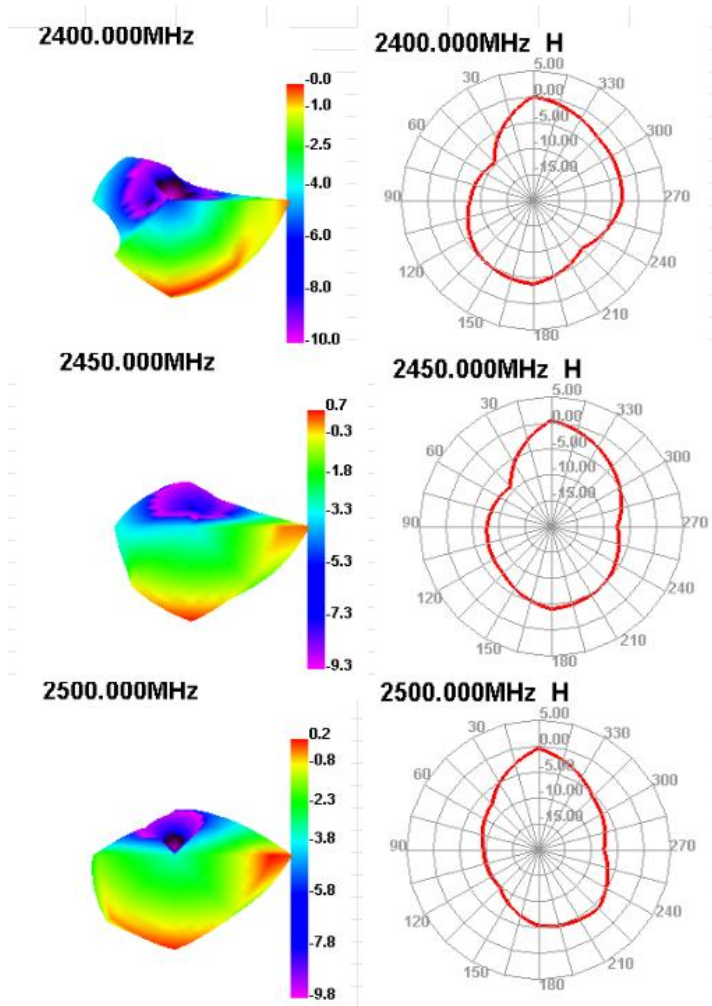
Customer Na-me:	
Machine type:	J20
Antenna frequency band:	2400MHZ-2485MHZ
Antenna type:	FPC+ coaxial cable
Feed-in form:	Double-fed
Number of pins:	Feed point + feed location
Motherboard num-ber:	

3 Antenna Inform-ation



4. Gain Efficiency

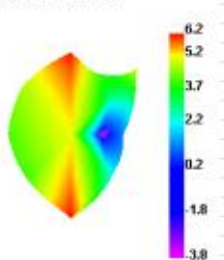
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	36.37	-4.39	-0.01	-2.16
2410	35.19	-4.54	-0.03	-2.18
2420	35.6	-4.49	0.17	-1.98
2430	34.94	-4.57	0.19	-1.96
2440	35.21	-4.53	0.3	-1.85
2450	38.29	-4.17	0.73	-1.42
2460	38.58	-4.14	0.67	-1.48
2470	35.67	-4.48	0.37	-1.78
2480	37.31	-4.28	0.5	-1.65
2490	35.62	-4.48	0.24	-1.91
2500	35.49	-4.5	0.16	-1.99



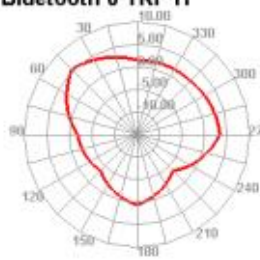
5Active OTA Free Space Test Data

Test Result	Bluetooth TRP		
	0	39	78
Frequency (MHz)	2402	2441	2480
TRP (dBm)	2.43	4.81	6.82
NHPRP (dBm) 45	2.43	4.81	6.82
MAX (dBm)	6.23	8.45	11.34
EIRP peak	6.23	8.45	11.34
Min (dBm)	-3.68	-3.32	-0.48
Test Result	Bluetooth TIS		
	0	39	78
Frequency (MHz)	2402	2441	2480
TIS (dBm)	-85.57	-87.41	-86.81
NHPIS (dBm) 45	-85.57	-87.41	-86.81
RSSIAve	3.29	4.49	6.89
MaxPosRSSI	5.75	8.08	11.23
MaxPosSens	-88.03	-90.99	-91.15
MAX (dBm)	7.09	8.13	11.41
EIS peak	7.09	8.13	11.41
Min (dBm)	-2.82	-3.64	-0.41

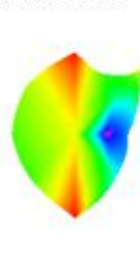
Bluetooth 0 TRP



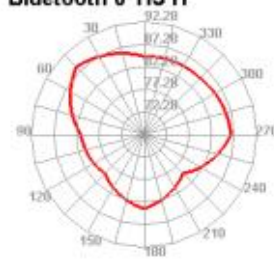
Bluetooth 0 TRP H



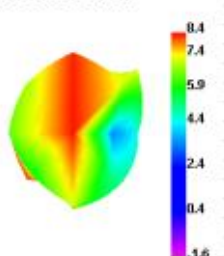
Bluetooth 0 TIS



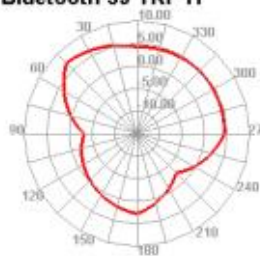
Bluetooth 0 TIS H



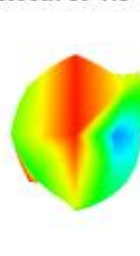
Bluetooth 39 TRP



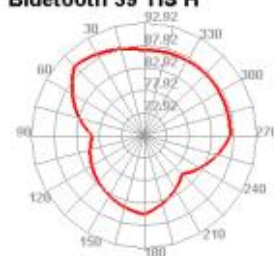
Bluetooth 39 TRP H



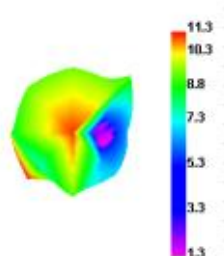
Bluetooth 39 TIS



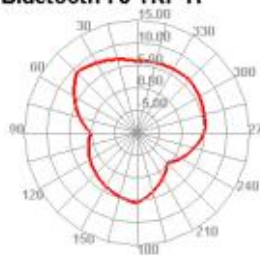
Bluetooth 39 TIS H



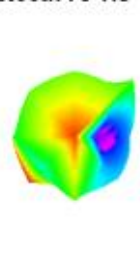
Bluetooth 78 TRP



Bluetooth 78 TRP H



Bluetooth 78 TIS



Bluetooth 78 TIS H

