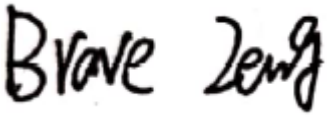
TEST REPORT

Report No.:	BCTC2409503312E
Applicant:	Shenzhen Huafurui Technology Co., Ltd.
Product Name:	Smartphone
Test Model:	KINGKONG X
Tested Date:	2024-09-12 to 2024-10-21
Issued Date:	2024-11-14

Shenzhen BCTC Testing Co., Ltd.

Product Name:	Smartphone
Trademark:	CUBOT
Model/Type Reference:	KINGKONG X KINGKONG ACE 2, KINGKONG ACE 3, KINGKONG AX, KINGKONG ES, KINGKONG POWER 3, KINGKONG STAR 2, KINGKONG X PRO
Prepared For:	Shenzhen Huafurui Technology Co., Ltd.
Address:	Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Shenzhen
Manufacturer:	Shenzhen Huafurui Technology Co., Ltd.
Address:	Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Shenzhen
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2024-09-12
Sample tested Date:	2024-09-12 to 2024-10-21
Issue Date:	2024-11-14
Report No.:	BCTC2409503312E
Test Standards:	FCC Part 15B ANSI C63.4:2014
Test Results:	PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2409503312E	2024-11-14	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

Standard	Test Item	Test result
FCC 15.107	Conducted Emission	Pass
FCC 15.109	Radiated Emission	Pass

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Conducted Emission (150kHz-30MHz)	3.10
Radiated Emission(30MHz~200MHz)	4.60
Radiated Emission(200MHz~1GHz)	5.20
Radiated Emission(1GHz~6GHz)	5.20

4. Product Information And Test Setup

4.1 Product Information

Ratings:	DC 9V from Adapter/ DC 3.87 from battery
Adapter Information:	Model: HJ-PD33W-US Input: 100-240V~50/60Hz 0.8A Output: 5.0V3.0A 15.0W OR DC9V3.0A 27.0W OR DC 12V2.75A 33.0W MAX
Model differences:	All models are identical except for the appearance color.
The highest frequency of the unintentional radiators internal sources of the EUT is (less than108)MHz:	☐ less than 1.705 MHz, the measurement shall only be made up to 30 MHz. ☒ between 1.705 MHz and 108 MHz, the measurement shall only be made up to 1 GHz. ☐ between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. ☐ between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. ☐ above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40GHz, whichever is less.

Cable of Product

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1	--	--	Applicant	---	No	---
2	--	--	BCTC	--	No	--

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	ADAPTER	Hoco.	HJ-PD33W-US	---	---

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Test Mode

Test item	Test Mode	Test Voltage
Conducted Emission (150KHz-30MHz) Class B	Mode 1*	AC 120V/60Hz
	Mode 2	AC 120V/60Hz
Radiated emission(30MHz-1GHz) Class B	Mode 1	AC 120V/60Hz
	Mode 2	AC 120V/60Hz
	Mode 3	DC 3.87V
	Mode 4*	DC 3.87V
All test mode were tested and passed, only Conducted Emissions, Radiated Emissions shows (*) is the worst case mode which were recorded in this report.		

Remark:
Mode1: Charging+BT+WiFi+Camera shooting
Mode2: Charging+BT+WiFi+TF Card Playing
Mode3: NFC
Mode4: Data Transmitting

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

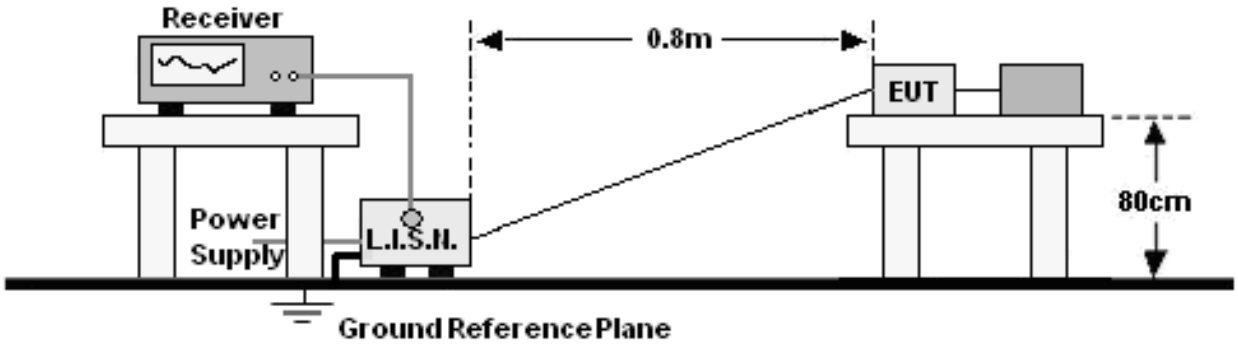
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD 9561-F	01323	May 16, 2024	May 15, 2025

Radiated Emissions Test (966 Chamber#01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Amplifier	SKET	LAPA_01G18G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Horn Antenna	schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. Conducted Emission At The Mains Terminals Test

6.1 Block Diagram Of Test Setup

For mains ports:



6.2 Limit

Limits for Class B devices

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56*	56 to 46*
0,50 to 5	56	46
5 to 30	60	50

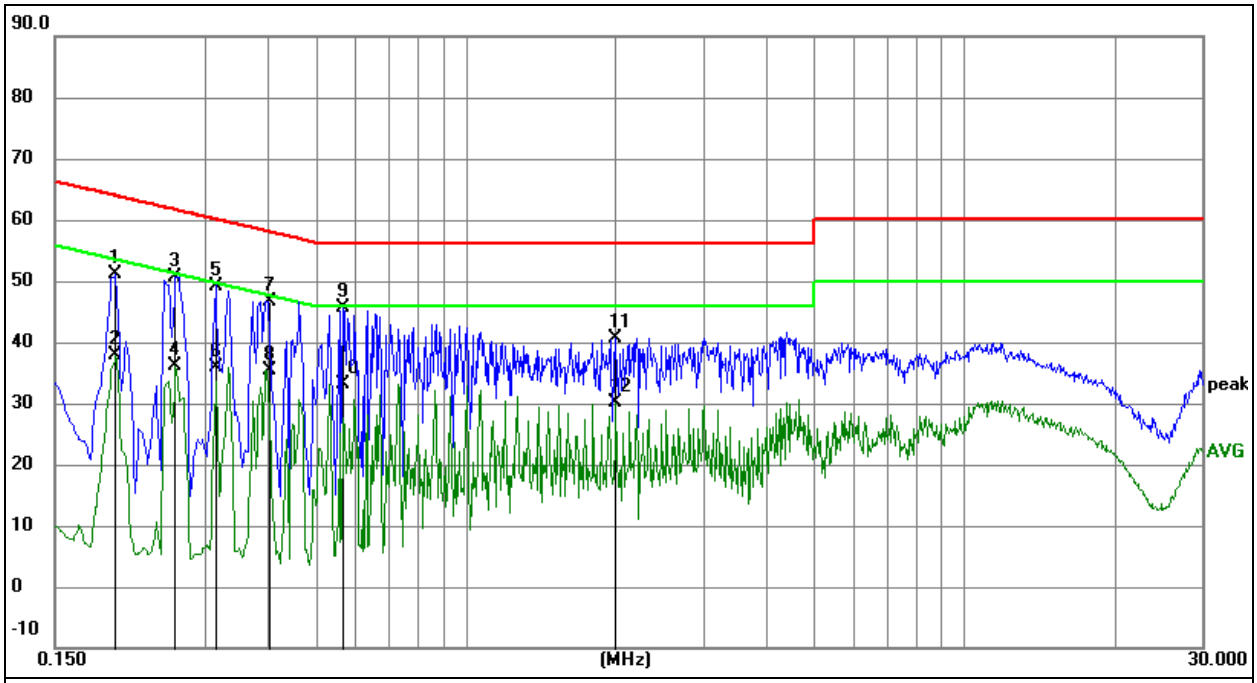
Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

For mains ports:
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 Test Result

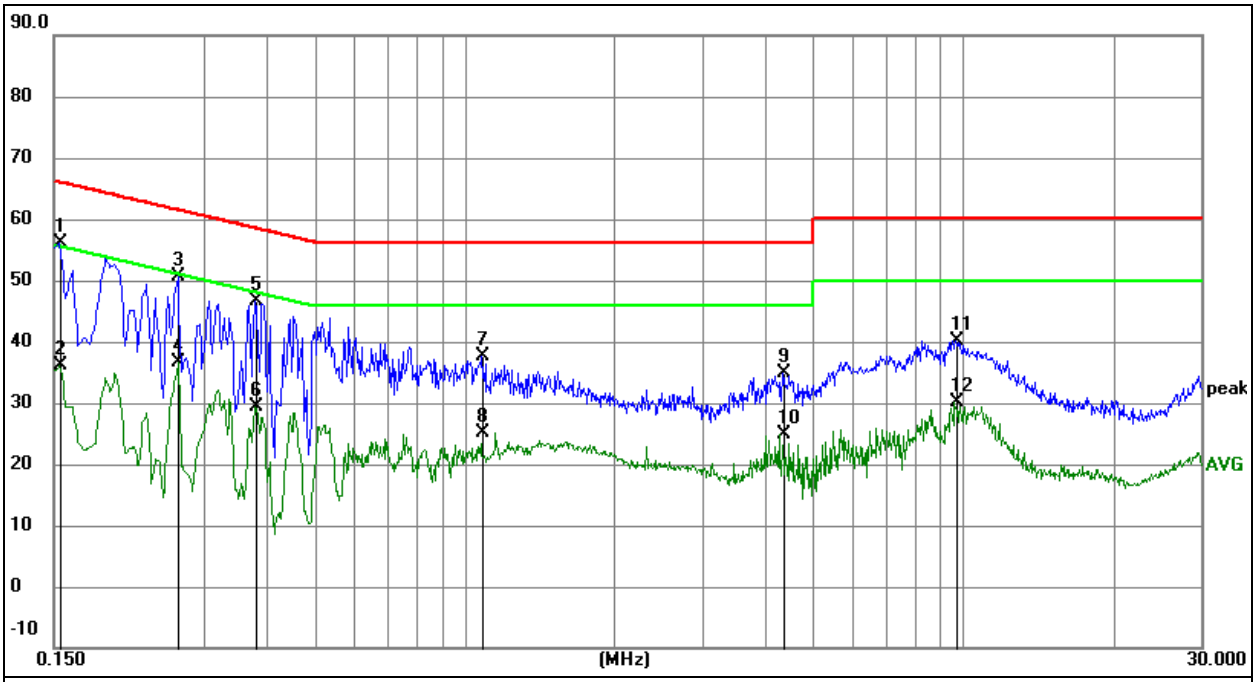
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Line
Test Voltage:	AC 120V/60Hz	Test Mode:	The worst data(Mode 1)



Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1986	31.03	20.07	51.10	63.67	-12.57	QP
2		0.1986	17.92	20.07	37.99	53.67	-15.68	AVG
3		0.2615	30.66	20.07	50.73	61.38	-10.65	QP
4		0.2615	16.11	20.07	36.18	51.38	-15.20	AVG
5		0.3149	29.18	20.07	49.25	59.84	-10.59	QP
6		0.3149	15.90	20.07	35.97	49.84	-13.87	AVG
7		0.4019	26.57	20.08	46.65	57.81	-11.16	QP
8		0.4019	15.36	20.08	35.44	47.81	-12.37	AVG
9	*	0.5670	25.56	20.08	45.64	56.00	-10.36	QP
10		0.5670	13.08	20.08	33.16	46.00	-12.84	AVG
11		1.9906	20.43	20.10	40.53	56.00	-15.47	QP
12		1.9906	9.98	20.10	30.08	46.00	-15.92	AVG

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Neutral
Test Voltage:	AC 120V/60Hz	Test Mode:	The worst data(Mode 1)



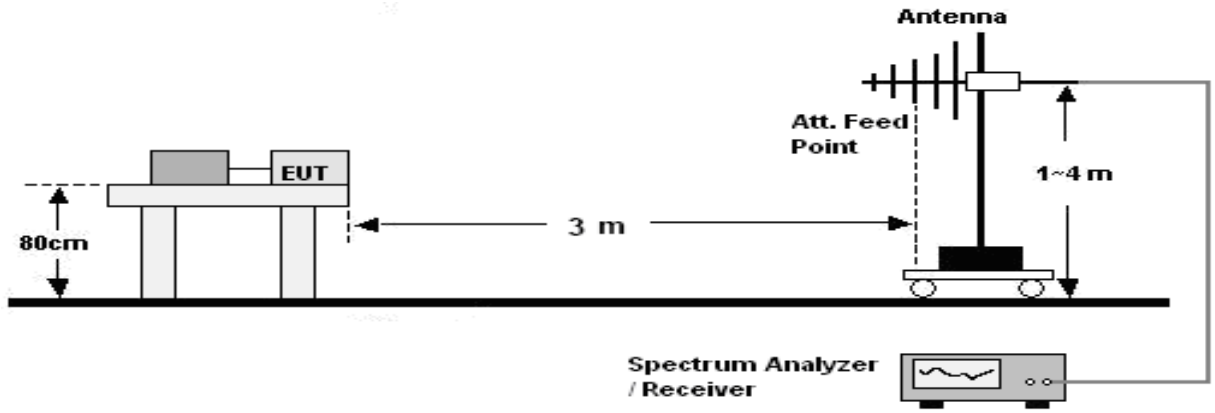
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1545	36.17	20.07	56.24	65.75	-9.51	QP
2		0.1545	16.00	20.07	36.07	55.75	-19.68	AVG
3		0.2670	30.45	20.07	50.52	61.21	-10.69	QP
4		0.2670	16.49	20.07	36.56	51.21	-14.65	AVG
5		0.3795	26.43	20.08	46.51	58.29	-11.78	QP
6		0.3795	9.21	20.08	29.29	48.29	-19.00	AVG
7		1.0859	17.56	20.09	37.65	56.00	-18.35	QP
8		1.0859	4.92	20.09	25.01	46.00	-20.99	AVG
9		4.3485	14.64	20.14	34.78	56.00	-21.22	QP
10		4.3485	4.65	20.14	24.79	46.00	-21.21	AVG
11		9.6765	20.04	20.17	40.21	60.00	-19.79	QP
12		9.6765	9.92	20.17	30.09	50.00	-19.91	AVG

7. Radiation Emission Test

7.1 Block Diagram Of Test Setup

30MHz ~ 1GHz:



7.2 Limit

Limits for Class B devices

Frequency (MHz)	limits at 3m dB(μV/m)		
	QP Detector	PK Detector	AV Detector
30-88	40.0	--	--
88-216	43.5	--	--
216-960	46.0	--	--
960 to 1000	54.0	--	--
Above 1000	--	74.0	54.0

Note: The lower limit shall apply at the transition frequencies.

7.3 Test Procedure

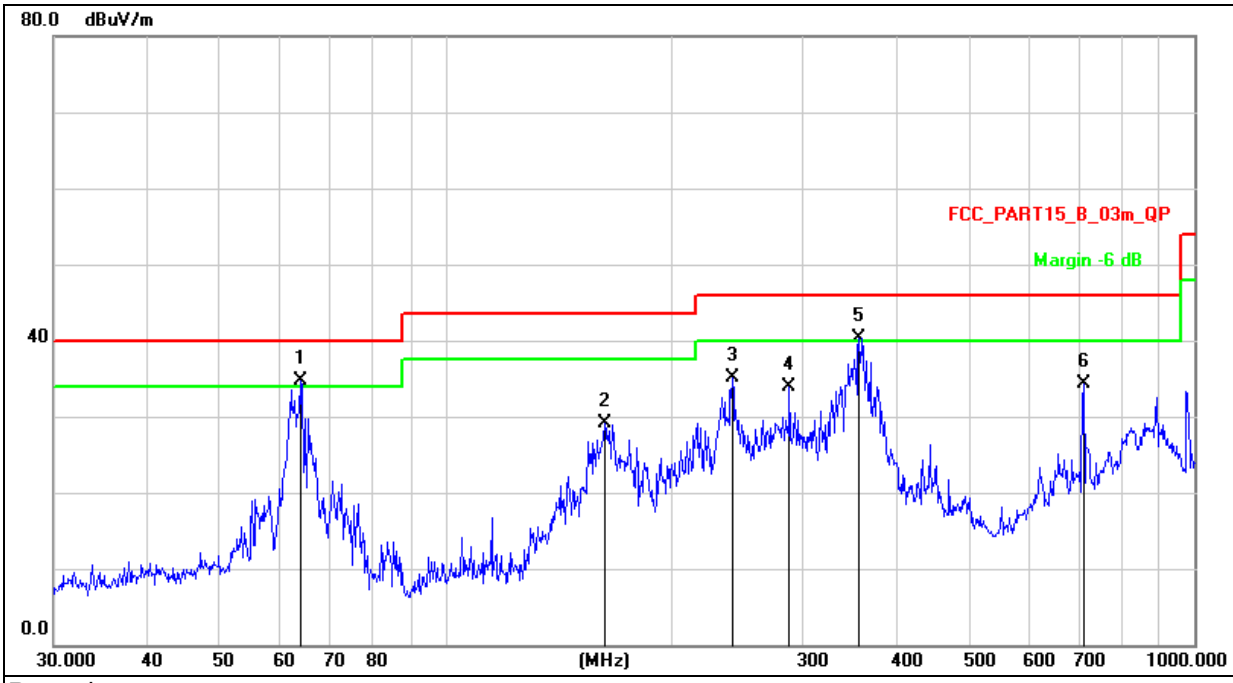
30MHz ~ 1GHz:

a. The Product was placed on the nonconductive turntable 0.8 m above the ground at a chamber.
b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
c. For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

7.4 Test Result

30MHz ~ 1GHz

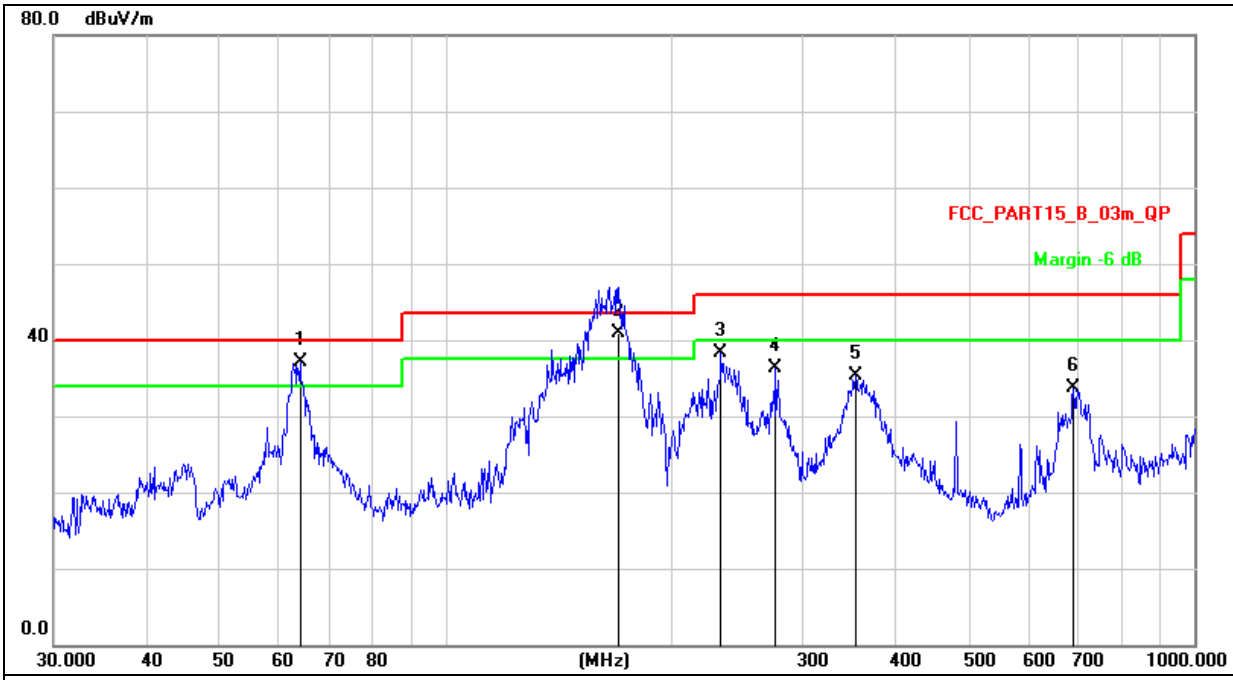
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	The worst data(Mode 4)



Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	63.9828	51.01	-16.35	34.66	40.00	-5.34	QP
2		163.1818	47.58	-18.45	29.13	43.50	-14.37	QP
3		241.6763	49.70	-14.53	35.17	46.00	-10.83	QP
4		287.9904	47.44	-13.49	33.95	46.00	-12.05	QP
5	!	356.6758	51.71	-11.39	40.32	46.00	-5.68	QP
6		711.6734	39.94	-5.54	34.40	46.00	-11.60	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	The worst data(Mode 4)



Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	63.9827	53.46	-16.35	37.11	40.00	-2.89	QP
2	*	169.9148	58.80	-17.95	40.85	43.50	-2.65	QP
3		233.3487	53.03	-14.77	38.26	46.00	-7.74	QP
4		276.1235	49.95	-13.74	36.21	46.00	-9.79	QP
5		352.9433	46.65	-11.44	35.21	46.00	-10.79	QP
6		689.5643	39.55	-5.80	33.75	46.00	-12.25	QP

8. EUT Photographs

EUT Photo 1



EUT Photo 2



EUT Photo 3



EUT Photo 4



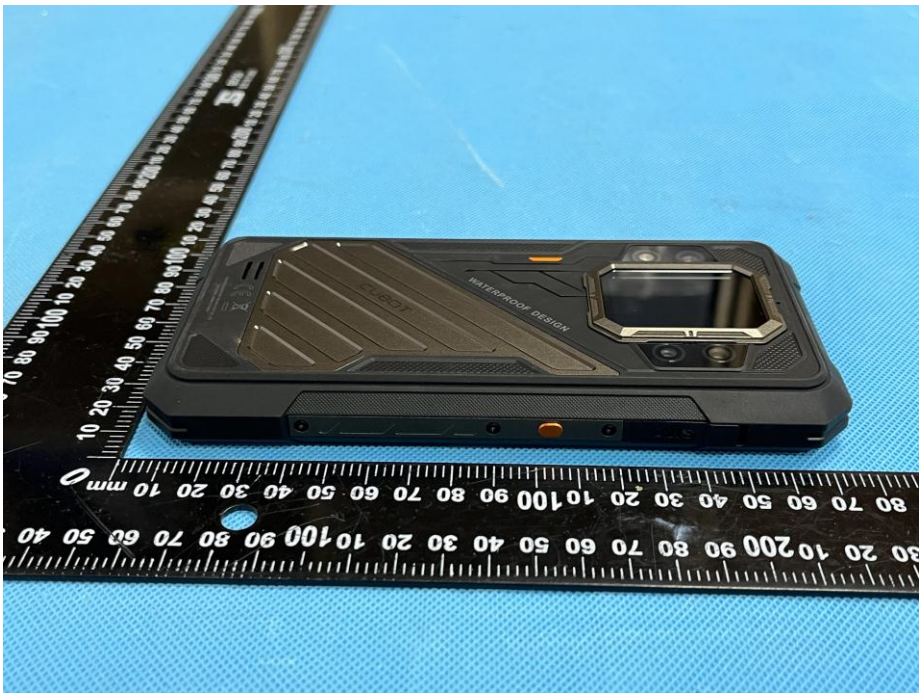
EUT Photo 5



EUT Photo 6



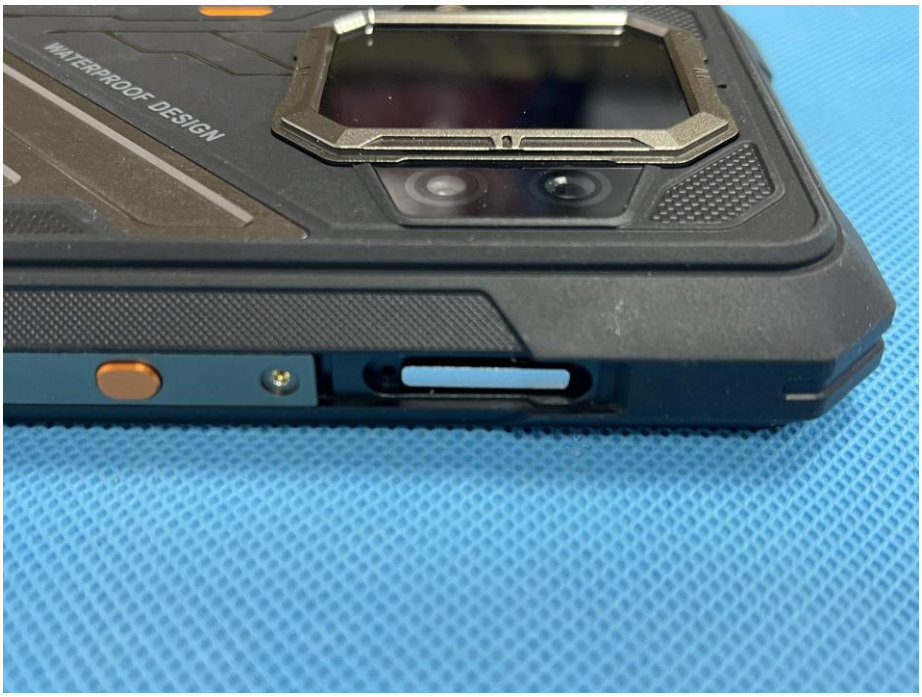
EUT Photo 7



EUT Photo 8



EUT Photo 9



EUT Photo 10



EUT Photo 11



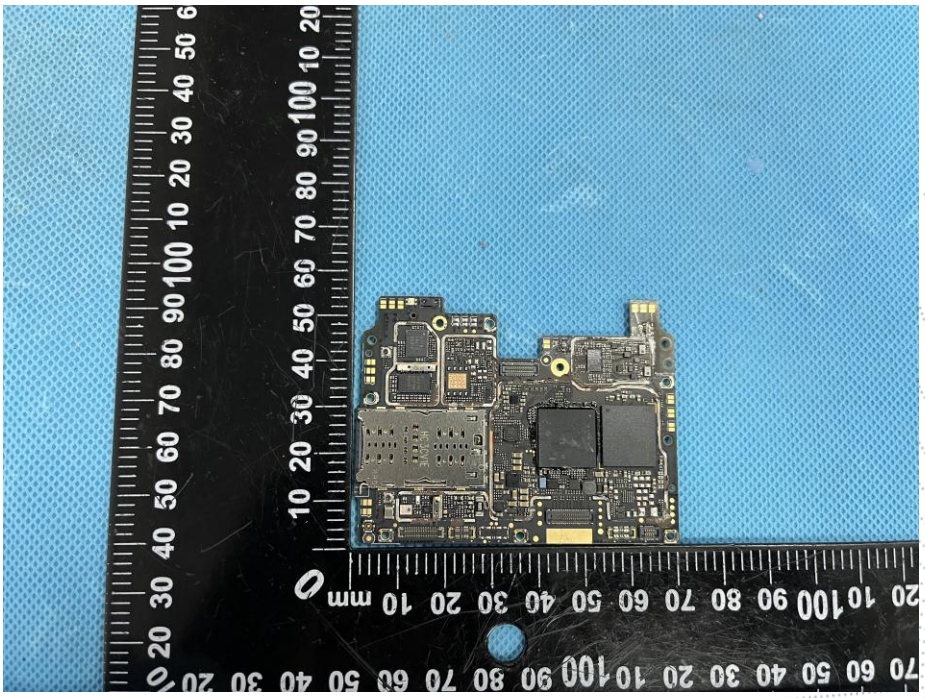
EUT Photo 12



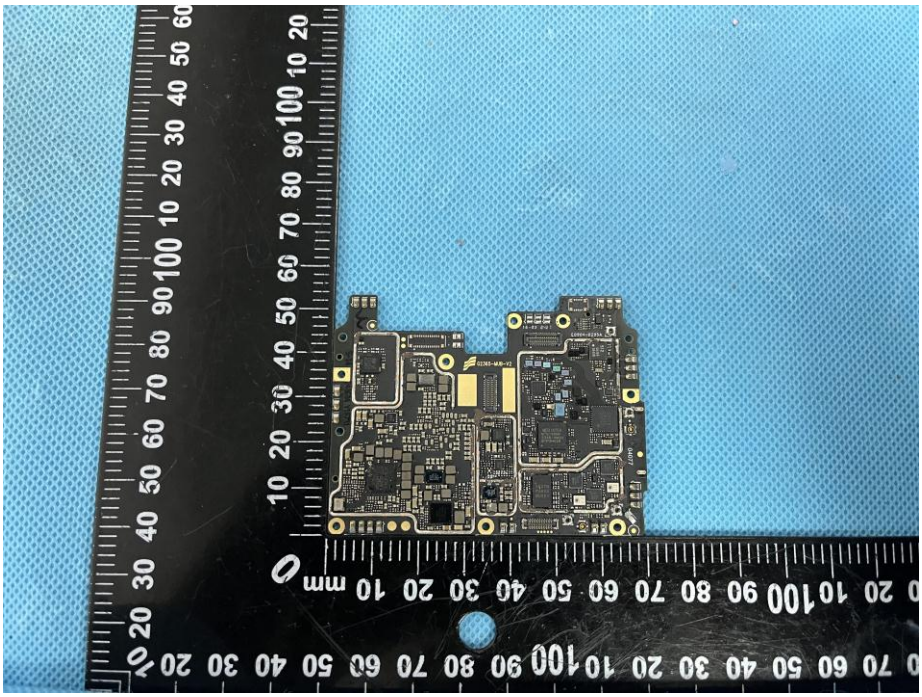
EUT Photo 13



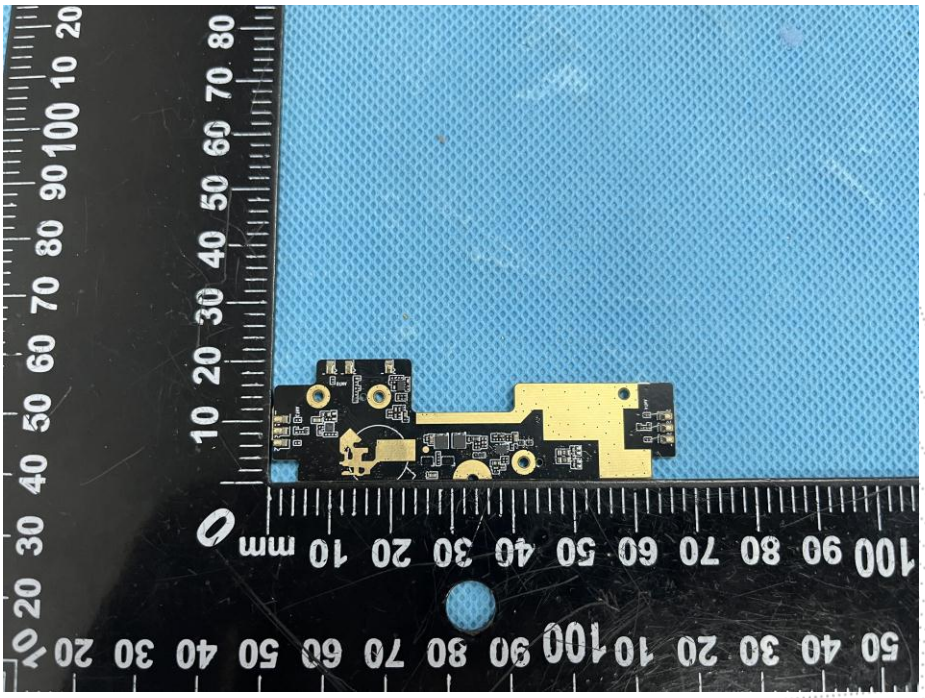
EUT Photo 14



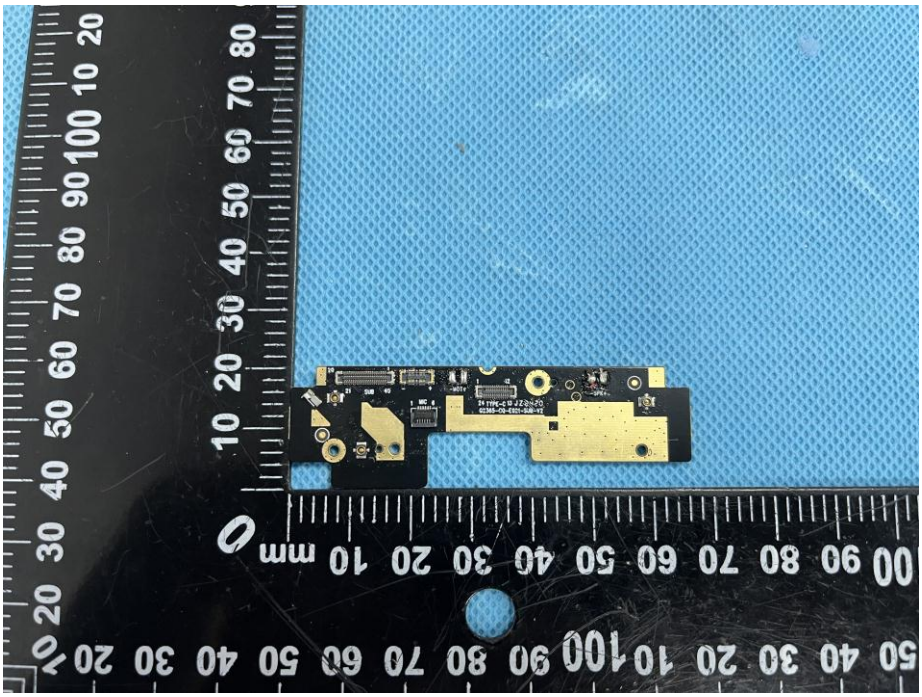
EUT Photo 15



EUT Photo 16



EUT Photo 17



EUT Photo 18



EUT Photo 19

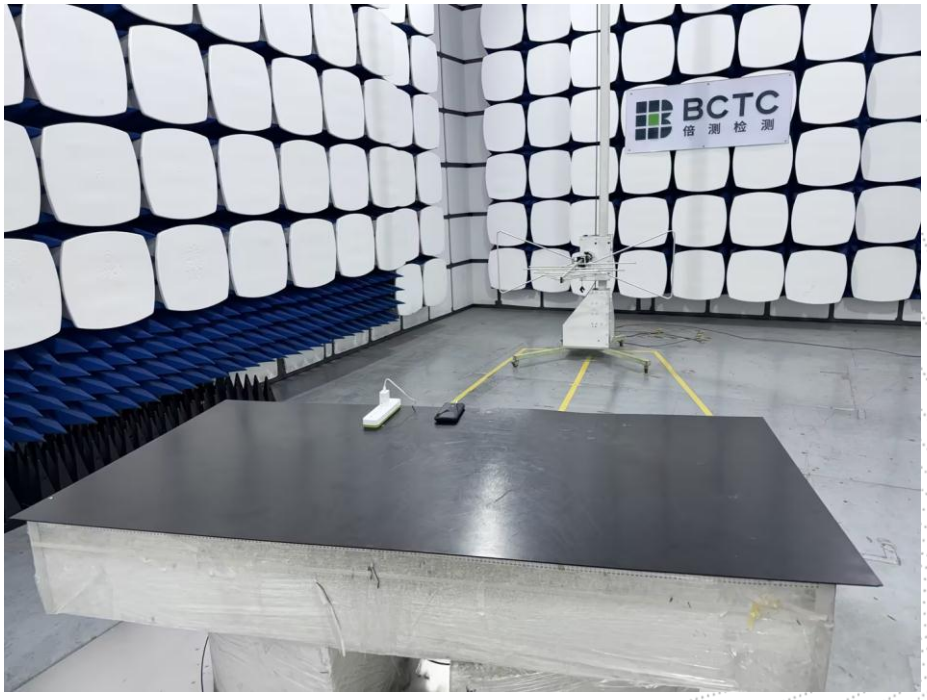

MODEL : C45
1ICP6/64/78-2
Rechargeable Li-polymer battery
Rated Capacity :10200 mAh/39.474Wh
Nominal Voltage:3.87V
Charging Limit Voltage:4.45V
Shenzhenshi jiuliyuan electronic technology co.,LTD
CAUTION
Do not charge or expose battery pack out of the temperature range 0°C-45°C
Use the authorized charger only
Do not disassemble this battery
Do not short-circuit this battery
Do not expose battery to open flames
Dispose of the battery appropriately
S/N : JLY20240529011
Standard: GB 31241-2022
Made in China
Li-Polymer

9. EUT Test Setup Photographs

Conducted emissions



Radiated emissions



STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:
1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

※※※※※ END ※※※※※