

TEST REPORT

Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Equipment Type: Mobile Phone
Model Name: RMX3943
Brand Name: realme
Test Standard: EN IEC 62311: 2020
EN 50665: 2017
1999/519/EC
Sample Arrival Date: Sep. 30, 2024
Test Date: Oct. 30, 2024
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ISSUED BY:

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Nov. 08, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3943
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI 6.0
Dimensions (Approx.)	165.7×76.22×7.94(mm)
Weight (Approx.)	190g
EUT ID	S06
IMEI Number	S06: IMEI1: 860836070025719; IMEI2: 860836070025701

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 900/1800 3G Network WCDMA/HSDPA/HSUPA/HSPA+/DC-HSDPA Band 1/5/8 4G Network FDD LTE Band 1/3/5/7/8/20/28 TDD LTE Band 38/40/41 LTE CA Uplink (UL): CA_1C, CA_3C, CA_7C, CA_38C, CA_40C, CA_41C, CA_1A-3A, CA_1A-7A, CA_1A-8A, CA_1A-20A, CA_1A-28A, CA_3A-7A, CA_3A-8A, CA_3A-20A, CA_3A-28A, CA_7A-8A, CA_7A-20A, CA_7A-28A 5G Network SA: NR n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78 NSA(EN-DC): DC_3A_n1A, DC_7A_n1A, DC_8A_n1A, DC_20A_n1A, DC_40A_n1A, DC_1A_n3A, DC_7A_n3A, DC_8A_n3A, DC_20A_n3A, DC_28A_n3A, DC_3A_n5A, DC_1A_n7A, DC_3A_n7A, DC_20A_n7A, DC_28A_n7A, DC_3A_n8A, DC_3A_n20A, DC_1A_n28A, DC_3A_n28A, DC_7A_n28A, DC_41A_n28A, DC_3A_n38A, DC_1A_n40A, DC_3A_n40A, DC_8A_n40A, DC_1A_n41A, DC_3A_n41A, DC_8A_n41A, DC_1A_n77A, DC_3A_n77A, DC_8A_n77A,, DC_20A_n77A, DC_28A_n77A, DC_40A_n77A, DC_41A_n77A, DC_1A_n78A, DC_3A_n78A, DC_7A_n78A, DC_8A_n78A, DC_20A_n78A, DC_28A_n78A, DC_38A_n78A, DC_40A_n78A, DC_41A_n78A Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, Galileo, BDS, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	NFC	
Frequency Range	NFC	13.56 MHz
Antenna Type	NFC	Coil Antenna
Exposure Category	General Population/Uncontrolled Exposure	
EUT Type	Portable Device	

3 STANDARD INFORMATION

3.1 Test Standards

No.	Identity	Document Title
1	EN IEC 62311: 2020	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)
2	EN 50665: 2017	Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)
3	1999/519/EC	Council Recommendation of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)

4 Radiofrequency Radiation Exposure Limit

Compliance criteria

According to 1999/519/EC the limit for General Population/ Uncontrolled exposure should be applied for this device, E-field strength of limit is 28 V/m.

Reference levels for electric, magnetic and electromagnetic fields
(0 Hz to 300 GHz, unperturbed rms values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1 Hz	—	$3,2 \times 10^4$	4×10^4	—
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	—
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	—
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	—
0,8-3 kHz	$250/f$	5	6,25	—
3-150 kHz	87	5	6,25	—
0,15-1 MHz	87	$0,73/f$	$0,92/f$	—
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	—
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Notes:

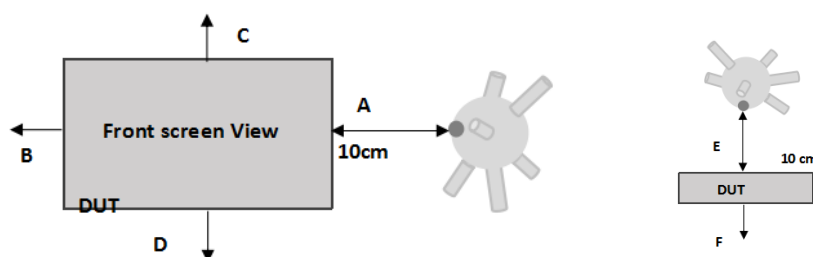
1. f as indicated in the frequency range column.
2. For frequencies between 100 kHz and 10 GHz, S_{eq} , E^2 , H^2 , and B^2 are to be averaged over any six-minute period.
3. For frequencies exceeding 10 GHz, S_{eq} , E^2 , H^2 , and B^2 are to be averaged over any $68/f^{1.05}$ -minute period (f in GHz).
4. No E-field value is provided for frequencies < 1 Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25 kV/m. Spark discharges causing stress or annoyance should be avoided.

5 DEVICE CATEGORY

5.1 Test Setup Photo

Maximum E-field measurements were made on each of six sides of the DUT that could come in contact with a user. The six sides are defined as follows: A, B, C, D, E, F. Refer to the test position diagram below.

E-field:



5.2 Measurement procedure

1. The RF exposure test was performed in anechoic chamber.
2. The measurement probe was placed at test distance 10 cm for A, B, C, D, E, F which is between the edge of the DUT and the geometric edge of probe.
3. The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.

5.3 Test Condition

Probe	Test Distance (cm) A, B, C, D, E, F
E-field	10

5.4 Test Equipment

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
PC	Lenovo	E4-ARR	MP1K4PCW	N/A	N/A
Test Software	Narda	WinEP600	N/A	N/A	N/A
E-Field Probe	Narda	EP 602	611WX80276	2024/09/05	2025/09/04
Anechoic Chamber	Yiheng	9m*6m*6m	N/A	2024/05/12	2027/05/11

6 ASSESSMENT RESULT

6.1 E-field

Distance (cm)	EUT Edges						Max. (V/m)	Limit (V/m)
	A (V/m)	B (V/m)	C (V/m)	D (V/m)	E (V/m)	F (V/m)		
10	0.458	0.490	0.352	0.435	0.448	0.324	0.490	28.000

Note: Test setup photos please refer the document "BL-SZ2491153-AS-2 SAR test setup photo.pdf".

7 Test Conclusion

7.1 E-field

Distance(cm)	EUT Edge B	Max. (V/m)	Limit (V/m)
	B (V/m)		
10	0.490	0.490	28.000

Note: Test setup photos please refer the document "BL-SZ2491153-AS-2 SAR test setup photo.pdf".

8 Simultaneous Transmission

8.1 Total exposure ratio

Mode	Exposure Ratio	TER	Verdict
Max E-File	0.018	0.992	Pass
Max Simultaneous transmission SAR	0.974		

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

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