

TEST REPORT

Realme Chongqing Mobile Telecommunications **APPLICANT**

Corp., Ltd.

PRODUCT NAME : Mobile Phone

MODEL NAME : RMX3690

BRAND NAME : realme

FCC ID : 2AUYFRMX3690

STANDARD(S) : 47 CFR Part 15 Subpart B

RECEIPT DATE : 2022-08-12

TEST DATE : 2022-08-18 to 2022-08-22

ISSUE DATE : 2022-09-07

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Shenzhen Morlab Communications Technology Co., Ltd.



DIRECTORY

1. Technical Information
1.1. Applicant and Manufacturer Information ·······
1.2. Equipment Under Test (EUT) Description
2. Test Results·····
2.1. Applied Reference Documents ······
2.2. EUT Setup and Operating Conditions ·······
3. 47 CFR Part 15B Requirements ····································
3.1. Conducted Emission······· 10
3.2. Radiated Emission ······· 14
Annex B Test Uncertainty22
Annex C Testing Laboratory Information 22

Change History				
Version	Date	Reason for Change		
1.0	2022-09-07	First edition		



1. Technical Information

Note: Provide by applicant

1.1. Applicant and Manufacturer Information

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

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone
EUT No.:	8#
Hardware Version:	11
Software Version:	Android 12
Tx Frequency:	GSM850: 824 MHz ~ 849 MHz
	GSM1900: 1850 MHz ~ 1910 MHz
	WCDMA Band II: 1850 MHz ~ 1910 MHz
	WCDMA Band IV: 1710 MHz ~ 1755 MHz
	WCDMA Band V: 824 MHz ~ 849 MHz
	LTE Band 2: 1850 MHz ~ 1910 MHz
	LTE Band 4: 1710 MHz ~ 1755 MHz
	LTE Band 5: 824 MHz ~ 849 MHz
	LTE Band 7: 2500 MHz ~ 2570 MHz
	LTE Band 13: 777 MHz ~ 787 MHz
	LTE Band 38: 2570 MHz ~ 2620 MHz
	LTE Band 41: 2535 MHz ~2655 MHz
	LTE Band 66: 1710 MHz ~ 1780 MHz
	Bluetooth: 2402 MHz ~ 2480 MHz
	802.11b/g/n: 2412 MHz ~2462 MHz
Rx Frequency:	GSM850: 869 MHz ~ 894 MHz
	GSM1900: 1930 MHz ~ 1990 MHz
	WCDMA Band II: 1930 MHz ~ 1990 MHz
	WCDMA Band IV: 2110 MHz ~ 2155 MHz
	WCDMA Band V: 869 MHz ~ 894 MHz





	LTE Band 2: 1930 MHz ~ 1990 MHz		
	LTE Band 4: 2110 MHz ~ 2155 MHz		
	LTE Band 5: 869 MHz ~ 894 MHz		
	LTE Band 7: 2620 MHz ~ 2690 MHz		
	LTE Band 13: 746 MHz ~ 756 MHz		
		0 MHz ~ 2620 MHz	
		5 MHz ~2655 MHz	
	LTE Band 66: 2110 MHz ~ 2200 MHz		
	Bluetooth: 2402 M		
	802.11b/g/n: 2412 MHz ~2462 MHz		
_	GPS(L1)/GLONASS(G1)/SBAS(L1): 1559MHz ~ 1610MHz		
Accessory:	AC Adapter 1	Τ .	
	Brand Name:	realme	
	Model No.:	OP52YAUH	
	Serial No.:	(N/A, marked #1 by test site)	
	Rated Input:	100-240V~50/60Hz, 0.4A	
	Rated Output:	5V=2A	
	Manufacturer:	Jiangsu Chenyang Electron Co., Ltd.	
	AC Adapter 2		
	Brand Name:	realme	
	Model No.:	OP52JAUH	
	Serial No.:	(N/A, marked #1 by test site)	
	Rated Input:	100-240V~50/60Hz, 0.4A	
	Rated Output:	5V=2A	
	Manufacturer:	Ten Pao Industrial Co., Ltd.	
	Battery 1 (Cell ma	aker: CosMX)	
	Brand Name:	realme	
	Model No.:	BLP877	
	Serial No.:	(N/A, marked #1 by test site)	
	Capacity:	Typical: 5000mAh, Rated: 4890mAh	
	Rated Voltage:	3.87V	
	Charge Limit:	4.45V	
	Manufacturer:	Huizhou Desay Battery Co., Ltd	
	Battery 2 (Cell ma	,	
	Brand Name:	realme	
	Model No.:	BLP877	
	Serial No.:	(N/A, marked #1 by test site)	
	<u> </u>		





	Capacity:	Typical: 5000mAh, Rated: 4890mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Huizhou Desay Battery Co., Ltd
	Battery 3	
	Brand Name:	realme
	Model No.:	BLP877
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	Typical: 5000mAh, Rated: 4890mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Dongguan NVT Technology Co., Ltd.
	Battery 4	
	Brand Name:	realme
	Model No.:	BLP877
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	Typical: 5000mAh, Rated: 4890mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	TWS Technology (Guangzhou) Limited
	USB Cable	
	Model:	DL122
Nata.		

Note:

- 1. There are two kinds of adapters, all adapters have been tested, For the CE, RE, only the worst case (Adapter 1) is recorded in this report.
- 2. There are four kinds of batteries, all batteries have been tested, For the CE, RE, only the worst case (Battery 1) is recorded in this report.
- 3. The product uses a total of four LCDs from different manufacturers. The size, specifications, materials and designs of these LCDs are exactly the same, only the name of the manufacturer is different. The LCD produced by each manufacturer has its corresponding model name:

Object Manufacturer		Model name	
LCD	HE YUAN COE COMMUNICATION	TOGETTOSO UD4 OT	
LOD	TECHNOLOGY CO., LTD.	T065IT029-HD1-QT	





SHENZHEN DJN PHOTOELECTRIC TECHNOLOGY CO., LTD	9A-3R065-1296B
Zhejiang Lianxinkang Technology Co.,LTD	LMIBH065105850
SHENZHEN TONGXINGDA TECHNOLOGY CO., LTD	TXDY650EBAPUG-109

All of the above have been evaluated, the main test model name is LMIBH065105850, only the result for LMIBH065105850 was recorded in this report.

4. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.

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2. Test Results

2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination Remark
1	15.107	Conducted Emission	2022.08.22	Wu Zhaoling	PASS	No deviation
2	15.109	Radiated Emission	2022.08.18	Li Hanbin	PASS	No deviation

Note 1:Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 2:When the test result is a critical value,we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.





2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Test Item)	
Mode 1	:	GSM850 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + AC Adapter + SIM Card
Mode 2	:	GSM1900 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + AC Adapter + SIM Card
Mode 3	:	WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + Earphone + AC Adapter + SIM Card
Mode 4	:	WCDMA Band IV Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + Earphone + AC Adapter + SIM Card
Mode 5	:	WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + Earphone + AC Adapter + SIM Card
Mode 6	:	LTE Band 2 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + AC Adapter + SIM Card
Mode 7	:	LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + AC Adapter + SIM Card
Mode 8	:	LTE Band 5 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + AC Adapter + SIM Card
Mode 9	:	LTE Band 7 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + AC Adapter + SIM Card
Mode 10	:	LTE Band 13 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + AC Adapter + SIM Card
Mode 11	:	LTE Band 38 Idle + Bluetooth Idle + 2.4G WLAN Idle + GPS(L1) Rx + Battery + USB
		Cable(Charging from Adapter) + Earphone + AC Adapter + SIM Card
Mode 12	:	LTE Band 41 Idle + Bluetooth Idle + 2.4G WLAN Idle + GLONASS(G1) Rx + Battery +
		USB Cable(Charging from Adapter) + Earphone + AC Adapter + SIM Card
Mode 13	:	LTE Band 66 Idle + Bluetooth Idle + 2.4G WLAN Idle + SBAS(L1) Rx + Battery + USB
		Cable(Charging from Adapter) + Earphone + AC Adapter + SIM Card
Mode 14	:	WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + Earphone + AC Adapter + SIM Card + Rear Camera
		Recording Mode
Mode 15	:	LTE Band 2 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable +
		Earphone + SIM Card + PC + PC Adapter + Data Transmission Mode

Remark:

The above test mode in boldface (Mode 14) was the worst case of conducted emission test, only the test data of these modes were reported. The above test mode in boldface (Mode 14) was the





worst case of radiated emission test, only the test data of these modes were reported.

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106



3. 47 CFR Part 15B Requirements

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a $50\mu H/50\Omega$ line impedance stabilization network (LISN).

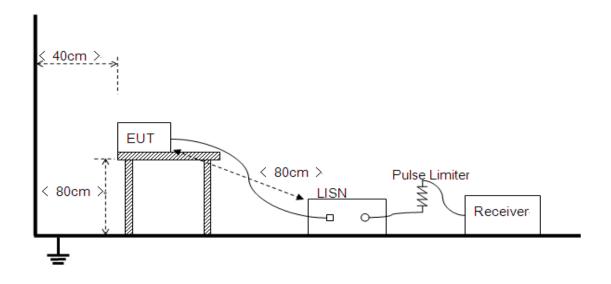
Frequency Range	Conducted Limit (dBµV)				
(MHz)	Quasi-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5	56	46			
5 - 30	60	50			

NOTE:

- a) The limit subjects to the Class B digital device.
- b) The lower limit shall apply at the band edges.
- c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz.

3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.





The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu H$ of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

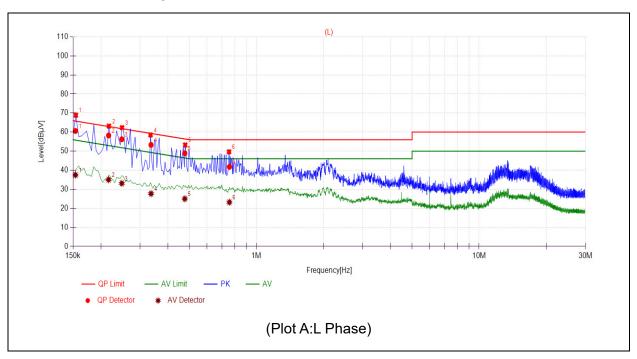
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

3.1.3. Test Result

Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

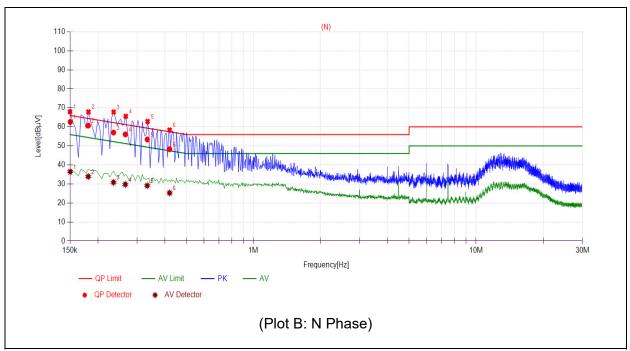


A. Test Plot and Suspicious Points:



No.	Fre.	Emission Level (dBµV)		Limit (d	Limit (dBµV)		Vordict
NO.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	Verdict
1	0.1539	60.61	37.47	65.79	55.79		PASS
2	0.2167	58.25	35.00	62.94	52.94		PASS
3	0.2484	56.23	33.10	61.81	51.81	Lina	PASS
4	0.3361	53.30	27.69	59.30	49.30	Line	PASS
5	0.4765	48.88	24.99	56.40	46.40		PASS
6	0.7559	41.77	23.18	56.00	46.00		PASS





No.	Fre.	Emission Level (dBµV)		Limit (d	dΒμV)	Power-line	Vordict
NO.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	Verdict
1	0.1503	62.60	36.42	65.98	55.98		PASS
2	0.1811	60.69	33.90	64.44	54.44		PASS
3	0.2352	57.05	30.84	62.26	52.26	Noutral	PASS
4	0.2657	56.07	29.78	61.25	51.25	Neutral	PASS
5	0.3333	53.41	29.12	59.37	49.37		PASS
6	0.4201	48.29	25.27	57.45	47.45		PASS

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3.2. Radiated Emission

3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field Strength Limitation at 3m Measurement Dist			
Range (MHz)	(μV/m)	(dBµV/m)		
30.0 - 88.0	100	20log 100		
88.0 - 216.0	150	20log 150		
216.0 - 960.0	200	20log 200		
Above 960.0	500	20log 500		

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- Limitation expressed indBμV/m is calculated by 20log Emission Level(μV/m).

3.2.2. Frequency Range of Measurement

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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,

Block67, BaoAn District, ShenZhen ,GuangDong Province, P. R. China

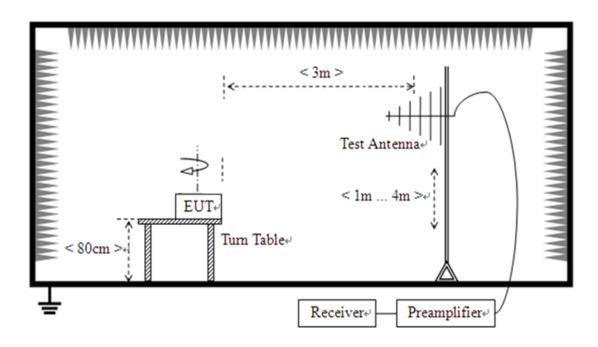
According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

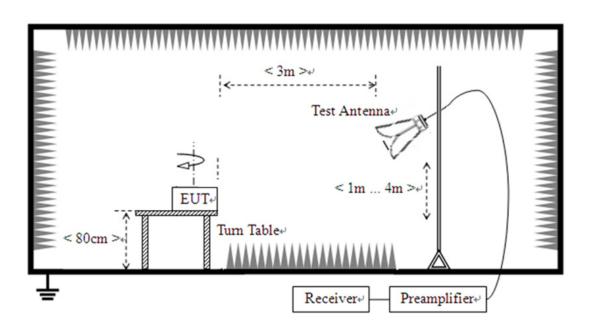


3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz







The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz)are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

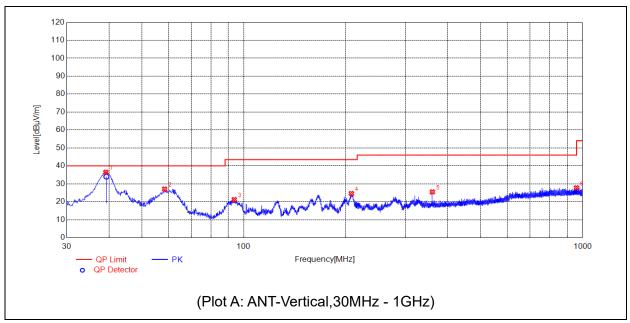
3.2.4. Test Result

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions which (6GHz-13.5GHz) are attenuated more than 20 dB below the permissible value need not be reported.

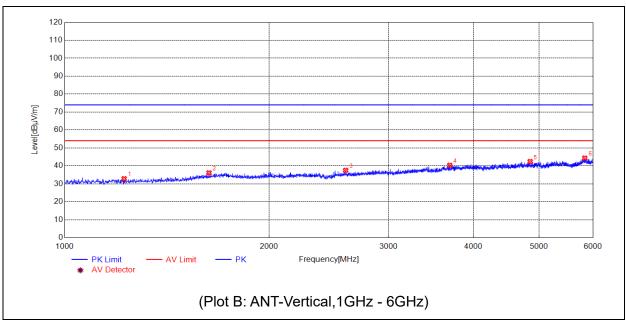
Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.





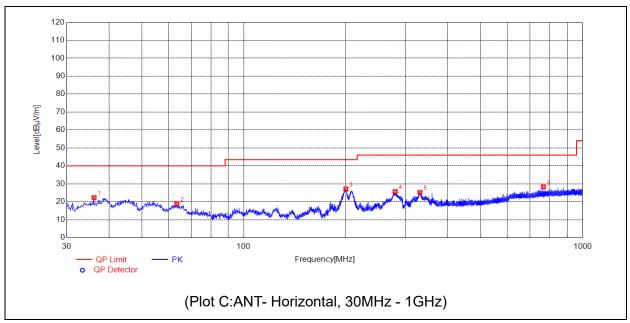
No.	Fre.	PK	QP	AV	Limit-PK	Limit-QP	Limit-AV	ANT	Verdict
NO.	MHz	dBµV/m	dΒμV/m	dΒμV/m	dΒμV/m	dBμV/m	dBμV/m	ANI	verdict
1	39.1189	36.45	33.98	N.A	N.A	40.00	N.A	V	PASS
2	58.3268	27.07	N.A	N.A	N.A	40.00	N.A	>	PASS
3	93.6384	21.20	N.A	N.A	N.A	43.50	N.A	>	PASS
4	207.6248	24.60	N.A	N.A	N.A	43.50	N.A	V	PASS
5	360.0270	25.48	N.A	N.A	N.A	46.00	N.A	>	PASS
6	959.4499	27.77	N.A	N.A	N.A	46.00	N.A	V	PASS





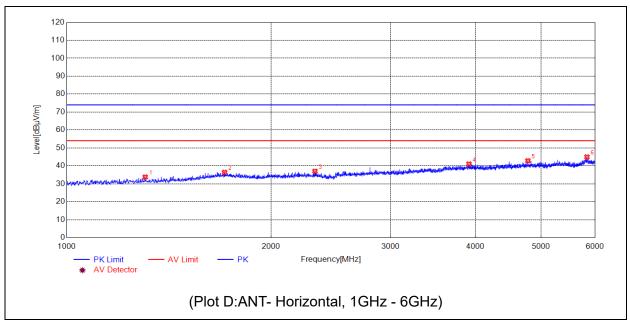
Na	Fre.	PK	QP	AV	Limit-PK	Limit-QP	Limit-AV	ANT	\/o.udio4
No.	MHz	dΒμV/m	dΒμV/m	dΒμV/m	dΒμV/m	dBμV/m	dΒμV/m	ANT	Verdict
1	1223.0446	32.85	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1631.1262	36.13	N.A	N.A	74.00	N.A	54.00	V	PASS
3	2593.3187	37.52	N.A	N.A	74.00	N.A	54.00	V	PASS
4	3692.5385	40.35	N.A	N.A	74.00	N.A	54.00	V	PASS
5	4850.7702	42.44	N.A	N.A	74.00	N.A	54.00	V	PASS
6	5837.9676	44.36	N.A	N.A	74.00	N.A	54.00	V	PASS





No	Fre.	PK	QP	AV	Limit-PK	Limit-QP	Limit-AV	ANT	Verdict
No.	MHz	dΒμV/m	dΒμV/m	dΒμV/m	dΒμV/m	dBμV/m	dΒμV/m	ANT	verdict
1	36.1116	22.32	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	63.3713	18.95	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	199.9610	27.12	N.A	N.A	N.A	43.50	N.A	Н	PASS
4	279.7030	25.71	N.A	N.A	N.A	46.00	N.A	Н	PASS
5	330.9241	25.21	N.A	N.A	N.A	46.00	N.A	Н	PASS
6	765.5276	28.31	N.A	N.A	N.A	46.00	N.A	Н	PASS





No	Fre.	PK	QP	AV	Limit-PK	Limit-QP	Limit-AV	ANT	Verdict
No.	MHz	dΒμV/m	dΒμV/m	dΒμV/m	dΒμV/m	dΒμV/m	dΒμV/m	ANT	verdict
1	1305.0610	33.78	N.A	N.A	74.00	N.A	54.00	Н	PASS
2	1708.1416	36.40	N.A	N.A	74.00	N.A	54.00	Н	PASS
3	2321.2643	37.02	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	3914.5829	41.03	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	4780.7562	42.85	N.A	N.A	74.00	N.A	54.00	Н	PASS
6	5841.9684	44.96	N.A	N.A	74.00	N.A	54.00	Н	PASS

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Annex B Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for	9kHz-150kHz	±3.3dB
a Level of Confidence of	150kHz-30MHz	±2.8dB
95%(U=2Uc(y))		

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for	30MHz-200MHz	±5.06dB
a Level of Confidence of	200MHz-1000MHz	±5.04dB
95%(U=2Uc(y))	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB



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Annex C Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	FL.3, Building A, FeiYang Science Park, No.8 LongChang
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

3. Accreditation Certificate

Accredited Testing	The FCC designation number is CN1192.	
Laboratory:	Test firm registration number is 226174.	
	(Shenzhen Morlab Communications Technology Co., Ltd.)	

4. Test Software Utilized

Model	Version Number	Producer
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[JS32-CE]	Version 2.5.0.0	Tonscend





5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBE CK	2022/5/25	2025/5/24
Horn Antenna	BBHA 9120D	01774	SCHWARZBE CK	2022/7/13	2025/7/12
Receiver	N9038A	MY5640009 3	KEYSIGHT	2022/3/3	2023/3/2
Signal Analyzer	N9020A	MY5606014 5	Agilent	2022/7/4	2023/7/3
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2021/10/18	2022/10/17
Preamplifier	S020180L320 3	61171/6117 2	LUCIX CORP.	2022/7/8	2023/7/7
Preamplifier	S10M100L380 2	46732	LUCIX CORP.	2022/7/8	2023/7/7
Receiver	ESPI	101052	R&S	2022/7/7	2023/7/6
LISN	NSLK 8127	8127449	Schwarzbeck	2022/3/3	2023/3/2
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBE CK	2022/7/6	2023/7/5

5. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
PC	APPLE	A1466	C2QJJ1X1DRVD
PC Adapter	APPLE	A1436	N/A
Earphone	VIVO	N/A	N/A

END OF REPORT	