



REPORT No.: SZ24030089E01

TEST REPORT

APPLICANT : Realme Chongqing Mobile Telecommunications Corp., Ltd.

PRODUCT NAME : Bluetooth Earphone

MODEL NAME : RMA2402, RMA2403

BRAND NAME : realme

FCC ID : 2AUYFRMA2402

STANDARD(S) : 47 CFR Part 15 Subpart B

RECEIPT DATE : 2024-04-23

TEST DATE : 2024-04-26 to 2024-05-14

ISSUE DATE : 2024-05-27



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| Change History | | |
|----------------|------------|-------------------|
| Version | Date | Reason for change |
| 1.0 | 2024-05-27 | 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: | Bluetooth Earphone | |
| EUT No.: | 1#, 3# | |
| Hardware Version: | V1.2 | |
| Software Version: | V1.1.0.27 | |
| Frequency Range: | Bluetooth: 2402 MHz ~ 2480 MHz | |
| Accessory: | Battery 1 (for Earphone) | |
| Brand Name: | N/A | |
| Model No.: | 112570 | |
| Serial No.: | (N/A, marked #1 by test site) | |
| Capacity: | 58mAh | |
| Rated Voltage: | 3.85V | |
| Charge Limit: | 4.4V | |
| Manufacturer: | XINYU GANFENG ELECTRONICS CO., LTD. | |
| Battery 2(for Charging case) | | |
| Brand Name: | N/A | |
| Model No.: | 751536 | |
| Serial No.: | (N/A, marked #1 by test site) | |
| Capacity: | 460mAh | |
| Rated Voltage: | 3.8V | |
| Charge Limit: | 4.35V | |
| Manufacturer: | Chongqing VDL Electronics Co., Ltd. | |



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Note:

1. According to the certificate holder, they declared that the product name: Bluetooth Earphone, with model name: RMA2402, RMA2403 have the same hardware and software, only differ in model name and colour, the main test model name is RMA2402, only the result for RMA2402 was recorded in this report.
2. 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 | 2024.04.26 | Wang Deyong | PASS | No deviation |
| 2 | 15.109 | Radiated Emission | 2024.05.13 | Yang Lian Yuan Zihong | PASS | No deviation |

Note 1:The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

Note 2: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 3: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

| Test Item | |
|--|--|
| Radiated Emission | |
| Mode 1 : | EUT + Bluetooth Link + Battery 1 + Mobile Phone + Play Music Mode |
| Mode 2 : | EUT (Earphone + Charging Case) + Bluetooth Idle + Battery 1 + Battery 2 + USB Cable + Adapter + Charging Mode |
| Mode 3 : | EUT (Charging Case) + Battery 2 + USB Cable + Adapter + Charging Mode |
| Conducted Emission | |
| Mode 2 : | EUT (Earphone + Charging Case) + Bluetooth Idle + Battery 1 + Battery 2 + USB Cable + Adapter + Charging Mode |
| Mode 3 : | EUT (Charging Case) + Battery 2 + USB Cable + Adapter + Charging Mode |
| Remark: | |
| The above test mode in boldface (Mode 2) was the worst case of conducted emission test, only the test data of these modes were reported. The above test mode in boldface (Mode 3) 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 μ H/50 Ω line impedance stabilization network (LISN).

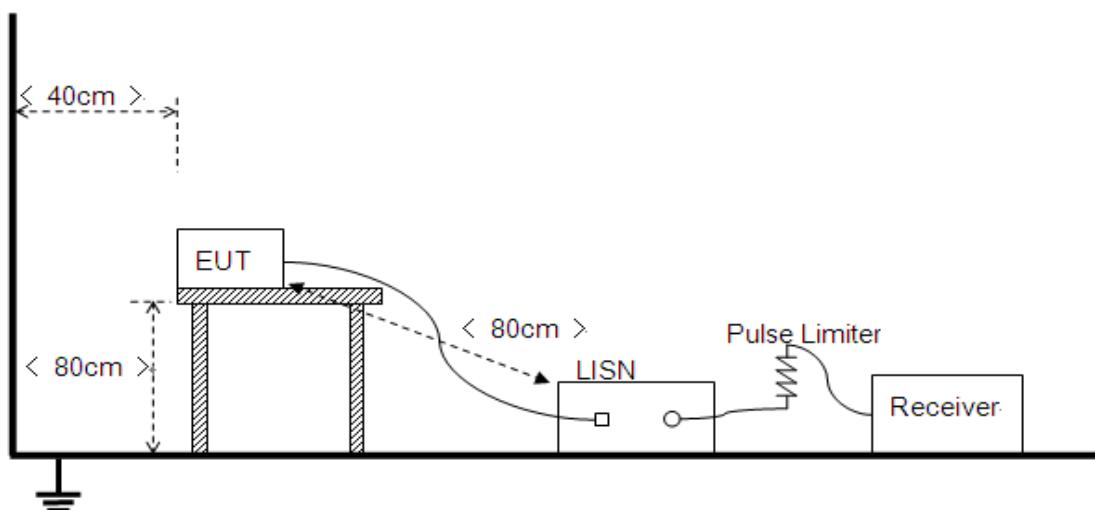
| Frequency Range (MHz) | Conducted Limit (dB μ V) | |
|--------------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

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 $50\Omega/50\mu\text{H}$ 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 is maintained 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.

The measurement results are obtained as below:

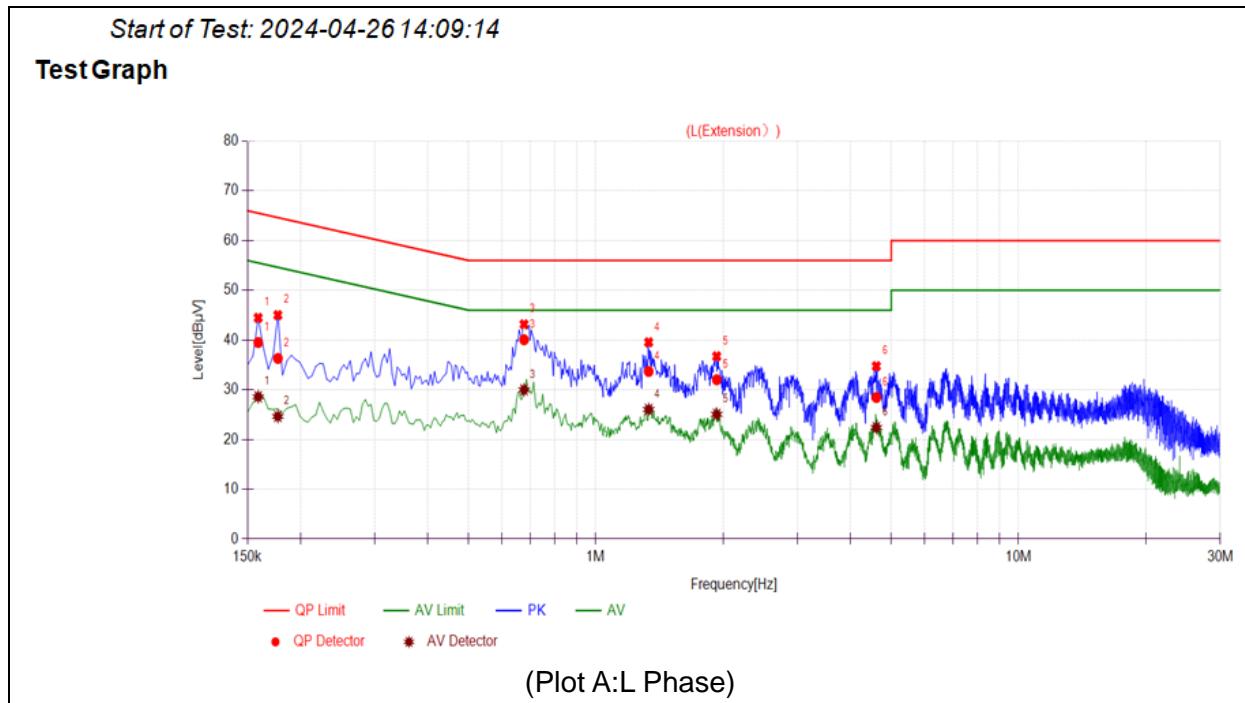
$$E [\text{dB}\mu\text{V}] = U_R [\text{dB}\mu\text{V}] + L_{\text{Cable loss}} [\text{dB}] + A_{\text{Factor}} [\text{dB}]$$

U_R : Receiver Reading

A_{Factor} : Voltage Division Factor of LISN

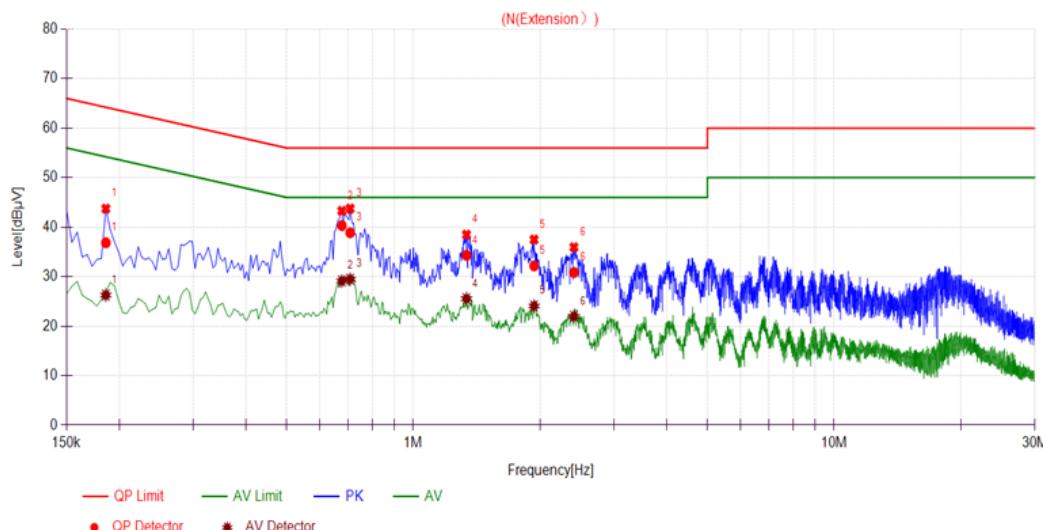
$L_{\text{Cable loss}}$: Correction Factor Contains Pulse Limiter and Cable

During the test, the total correction Factor $L_{\text{Cable loss}}$ and A_{Factor} were built in test software.

A. Test Plot and Suspicious Points:


| No. | Fre. (MHz) | Emission Level (dB μ V) | | Limit (dB μ V) | | Power-line | Verdict |
|-----|---------------|-----------------------------|---------|--------------------|---------|------------|---------|
| | | Quasi-peak | Average | Quasi-peak | Average | | |
| 1 | 0.1590 | 39.51 | 28.60 | 65.52 | 55.52 | Line | PASS |
| 2 | 0.1770 | 36.30 | 24.64 | 64.63 | 54.63 | | PASS |
| 3 | 0.6765 | 40.07 | 29.99 | 56.00 | 46.00 | | PASS |
| 4 | 1.3335 | 33.69 | 26.05 | 56.00 | 46.00 | | PASS |
| 5 | 1.9321 | 32.02 | 25.06 | 56.00 | 46.00 | | PASS |
| 6 | 4.6095 | 28.45 | 22.41 | 56.00 | 46.00 | | PASS |

Start of Test: 2024-04-26 14:13:14

Test Graph


| No. | Fre. (MHz) | Emission Level (dB μ V) | | Limit (dB μ V) | | Power-line | Verdict |
|-----|---------------|-----------------------------|---------|--------------------|---------|------------|---------|
| | | Quasi-peak | Average | Quasi-peak | Average | | |
| 1 | 0.1860 | 36.84 | 26.26 | 64.21 | 54.21 | Neutral | PASS |
| 2 | 0.6765 | 40.32 | 29.11 | 56.00 | 46.00 | | PASS |
| 3 | 0.7080 | 38.87 | 29.48 | 56.00 | 46.00 | | PASS |
| 4 | 1.3380 | 34.31 | 25.53 | 56.00 | 46.00 | | PASS |
| 5 | 1.9366 | 32.18 | 24.06 | 56.00 | 46.00 | | PASS |
| 6 | 2.4088 | 30.83 | 21.96 | 56.00 | 46.00 | | PASS |



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 Range (MHz) | Field Strength Limitation at 3m Measurement Dist | |
|-----------------------|--|----------------|
| | (μ V/m) | (dB μ V/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.
- 2) Limitation expressed in dB μ V/m is calculated by 20log Emission Level(μ V/m).

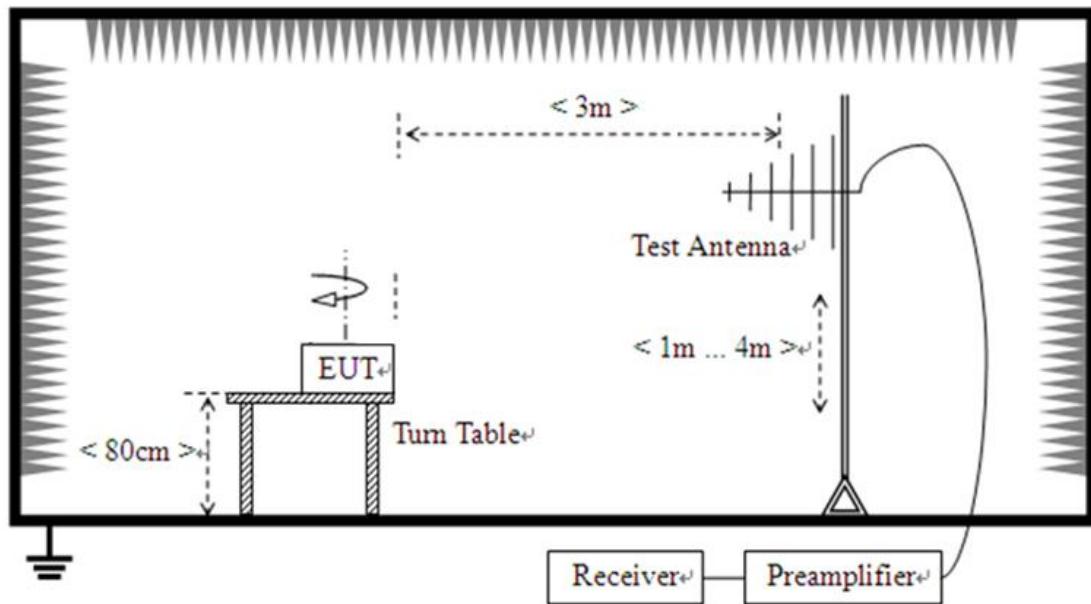
3.2.2. Frequency Range of Measurement

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

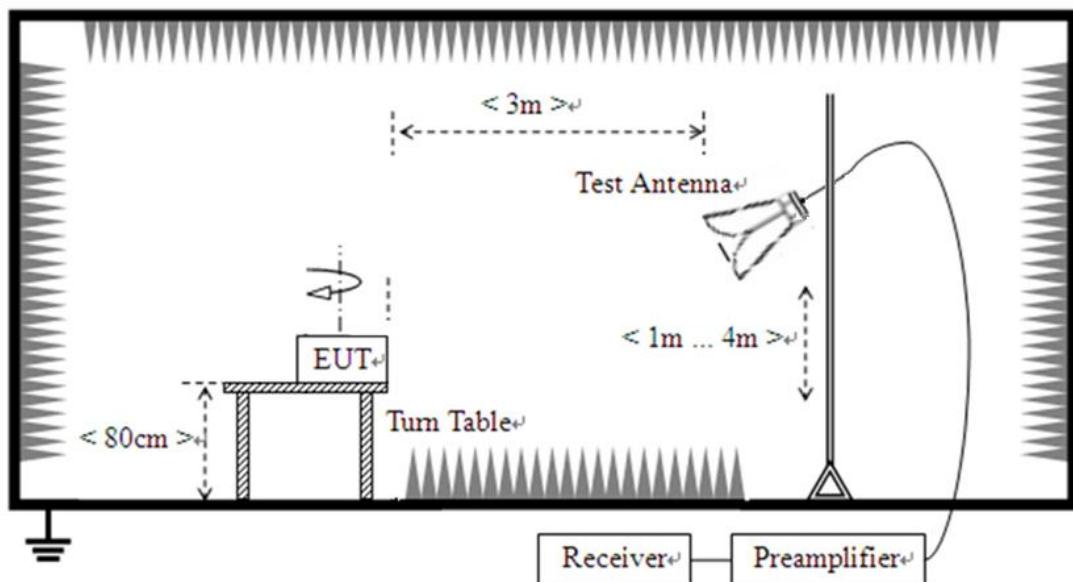
| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|--|--|
| Below 1.705 | 30. |
| 1.705–108 | 1000. |
| 108–500 | 2000. |
| 500–1000 | 5000. |
| Above 1000 | 5th harmonic of the highest frequency or 40 GHz, 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 a 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 above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

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 (6GHz-12.5GHz) which are attenuated more than 20 dB below the permissible value need not be reported.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R [\text{dB}\mu\text{V}] + A_T [\text{dB}] + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

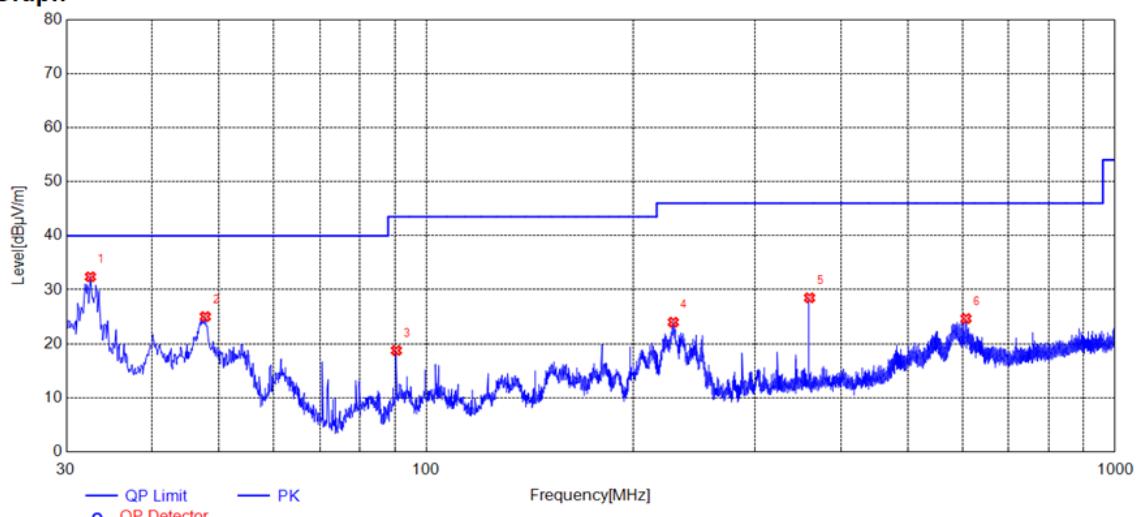
Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.



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Start of Test: 2024-05-13 15:24:32

Test Graph



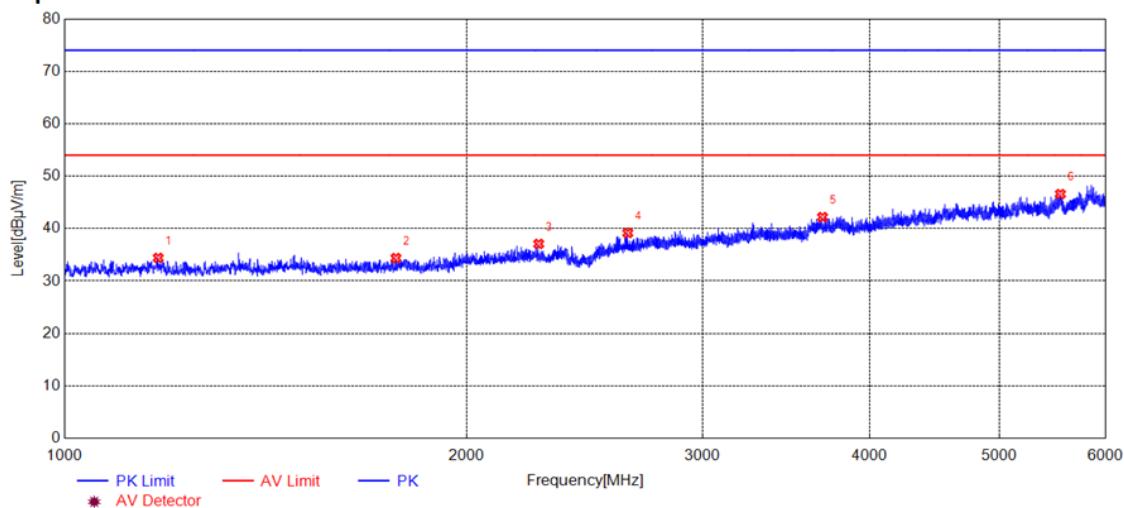
(Plot A: ANT-Vertical,30MHz - 1GHz)

| No. | Fre. MHz | PK dB μ V/m | QP dB μ V/m | AV dB μ V/m | Limit-PK dB μ V/m | Limit-QP dB μ V/m | Limit-AV dB μ V/m | ANT | Verdict |
|-----|-------------|--------------------|--------------------|--------------------|--------------------------|--------------------------|--------------------------|-----|---------|
| 1 | 32.5223 | 32.39 | N.A. | N.A. | N.A. | 40.00 | N.A. | V | PASS |
| 2 | 47.7528 | 25.03 | N.A. | N.A. | N.A. | 40.00 | N.A. | V | PASS |
| 3 | 90.4370 | 18.76 | N.A. | N.A. | N.A. | 43.50 | N.A. | V | PASS |
| 4 | 228.2878 | 23.99 | N.A. | N.A. | N.A. | 46.00 | N.A. | V | PASS |
| 5 | 360.0270 | 28.51 | N.A. | N.A. | N.A. | 46.00 | N.A. | V | PASS |
| 6 | 607.4988 | 24.67 | N.A. | N.A. | N.A. | 46.00 | N.A. | V | PASS |



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Start of Test: 2024-05-13 15:26:40

Test Graph

(Plot B: ANT-Vertical, 1GHz - 6GHz)

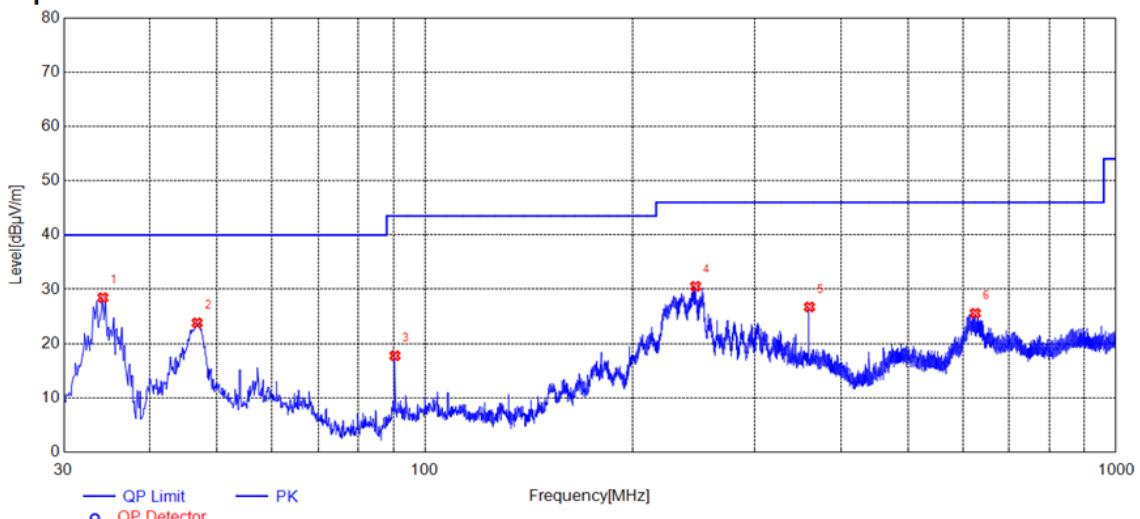
| No. | Fre. MHz | PK dB μ V/m | QP dB μ V/m | AV dB μ V/m | Limit-PK dB μ V/m | Limit-QP dB μ V/m | Limit-AV dB μ V/m | ANT | Verdict |
|-----|-------------|--------------------|--------------------|--------------------|--------------------------|--------------------------|--------------------------|-----|---------|
| 1 | 1175.5000 | 34.42 | N.A. | N.A. | 74.00 | N.A. | 54.00 | V | PASS |
| 2 | 1770.0000 | 34.38 | N.A. | N.A. | 74.00 | N.A. | 54.00 | V | PASS |
| 3 | 2263.0000 | 37.08 | N.A. | N.A. | 74.00 | N.A. | 54.00 | V | PASS |
| 4 | 2638.0000 | 39.15 | N.A. | N.A. | 74.00 | N.A. | 54.00 | V | PASS |
| 5 | 3688.5000 | 42.20 | N.A. | N.A. | 74.00 | N.A. | 54.00 | V | PASS |
| 6 | 5555.0000 | 46.59 | N.A. | N.A. | 74.00 | N.A. | 54.00 | V | PASS |



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Start of Test: 2024-05-13 15:23:05

Test Graph

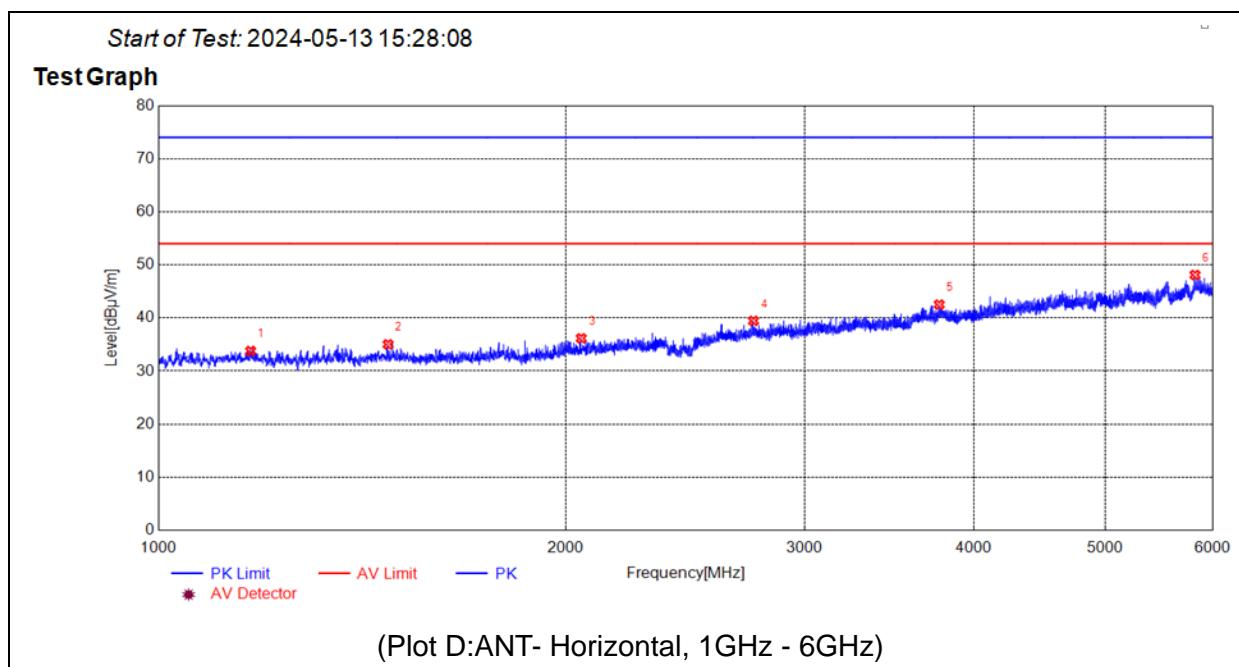


(Plot C:ANT- Horizontal, 30MHz - 1GHz)

| No. | Fre. MHz | PK dB μ V/m | QP dB μ V/m | AV dB μ V/m | Limit-PK dB μ V/m | Limit-QP dB μ V/m | Limit-AV dB μ V/m | ANT | Verdict |
|-----|-------------|--------------------|--------------------|--------------------|--------------------------|--------------------------|--------------------------|-----|---------|
| 1 | 34.1714 | 28.46 | N.A. | N.A. | N.A. | 40.00 | N.A. | H | PASS |
| 2 | 46.7827 | 23.81 | N.A. | N.A. | N.A. | 40.00 | N.A. | H | PASS |
| 3 | 90.4370 | 17.76 | N.A. | N.A. | N.A. | 43.50 | N.A. | H | PASS |
| 4 | 246.3316 | 30.54 | N.A. | N.A. | N.A. | 46.00 | N.A. | H | PASS |
| 5 | 360.0270 | 26.74 | N.A. | N.A. | N.A. | 46.00 | N.A. | H | PASS |
| 6 | 625.5426 | 25.59 | N.A. | N.A. | N.A. | 46.00 | N.A. | H | PASS |



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| No. | Fre. MHz | PK dB μ V/m | QP dB μ V/m | AV dB μ V/m | Limit-PK dB μ V/m | Limit-QP dB μ V/m | Limit-AV dB μ V/m | ANT | Verdict |
|-----|-------------|--------------------|--------------------|--------------------|--------------------------|--------------------------|--------------------------|-----|---------|
| 1 | 1170.0000 | 33.79 | N.A. | N.A. | 74.00 | N.A. | 54.00 | H | PASS |
| 2 | 1478.0000 | 35.03 | N.A. | N.A. | 74.00 | N.A. | 54.00 | H | PASS |
| 3 | 2052.5000 | 36.17 | N.A. | N.A. | 74.00 | N.A. | 54.00 | H | PASS |
| 4 | 2750.5000 | 39.45 | N.A. | N.A. | 74.00 | N.A. | 54.00 | H | PASS |
| 5 | 3772.0000 | 42.52 | N.A. | N.A. | 74.00 | N.A. | 54.00 | H | PASS |
| 6 | 5826.5000 | 48.10 | N.A. | N.A. | 74.00 | N.A. | 54.00 | H | PASS |

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Annex A 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 a Level of Confidence of 95%(U=2Uc(y)) | 9kHz-150kHz | ±3.3dB |
| | 150kHz-30MHz | ±2.8dB |

Uncertainty of Radiated Emission Measurement

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



Annex B 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. |
| Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |

3. Accreditation Certificate

| | |
|---------------------------------------|--|
| Accredited Testing Laboratory: | The FCC designation number is CN1192. 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 |



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5. Test Equipments Utilized

| Description | Model | Serial No. | Manufacturer | Cal. Date | Due. Date |
|-----------------------|---------------------|--------------------------|---------------|-----------|-----------|
| Bi-Log Antenna | VULB 9163 | 9163-519 | SCHWARZBECK | 2023/7/1 | 2024/6/30 |
| Horn Antenna | BBHA 9120D | 01774 | SCHWARZBECK | 2023/7/1 | 2024/6/30 |
| Receiver | N9038A | MY564000 93 | KEYSIGHT | 2024/1/25 | 2025/1/24 |
| 6db Attenuator | BW-N6W5+ | E191001 | Mini-circuits | 2023/9/19 | 2024/9/18 |
| Preamplifier | S020180L3203 | 61171/611 72 | LUCIX CORP. | 2023/6/27 | 2024/6/26 |
| Preamplifier | S10M100L3802 | 46732 | LUCIX CORP. | 2023/6/27 | 2024/6/26 |
| RF Coaxial Cable | PE330 | MRE001 | Pasternack | N/A | N/A |
| RF Coaxial Cable | CLU18 | MRE002 | Pasternack | N/A | N/A |
| RF Coaxial Cable | CLU18 | MRE003 | Pasternack | N/A | N/A |
| RF Coaxial Cable | QA360-40-KK- 0.5 | 22290045 | Qualwave | N/A | N/A |
| RF Coaxial Cable | QA360-40-KKF -2 | 22290046 | Qualwave | N/A | N/A |
| RF Coaxial Cable | QA500-18-NN- 5 | 22120181 | Qualwave | N/A | N/A |
| RF Coaxial Cable | BNC | MRE04 | Qualwave | N/A | N/A |
| Receiver | ESPI | 101052 | R&S | 2023/6/21 | 2024/6/20 |
| LISN | NSLK 8127 | 8127449 | Schwarzbeck | 2024/2/2 | 2025/2/1 |
| 10dB Pulse Limiter | VTSD 9561-F | VTSD 9561 F-B #206 | SCHWARZBECK | 2023/6/27 | 2024/6/26 |

6. Ancillary Equipment Utilized

| Description | Model | Serial No. | Manufacturer |
|--------------|----------------|-----------------|--------------|
| Adapter | H785LBJBY16392 | HW-050200C01 | HUAWEI |
| Mobile Phone | RMX3193 | VGSKUKT85TLFBMP | Realme |

END OF REPORT