

Test Report

Applicant: RM Acquisition LLC.

Address : 1100 West Idaho Street SUITE 310 Boise Idaho

United States 83702

Product Name: Bluetooth ANC Headset

Brand Mark : Rand McNally

Model : ClearDryve 220S

Series model : CD220, CD180, CD210, CD300

FCC ID : A4C91008B

Report Number : BLA-EMC-202408-A3003

Date of Receipt : 2024.08.07

Date of Test : 2024.08.07 to 2024.08.20

Test Standard : 47 CFR Part 15, Subpart C 15.247

Test Result : Pass

Compiled by:

Review by:

Approved by:

Issued Date: 2024.08.20

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China





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Revise Record

| Version No. | Date | Description |
|-------------|------------|-------------|
| 01 | 2024.08.20 | Original |
| | | |
| | | |
| | | |



1 General information

1.1 General information

| Applicant | RM Acquisition LLC. | | |
|--------------|--|--|--|
| Address | 1100 West Idaho Street SUITE 310 Boise Idaho United States 83702 | | |
| Manufacturer | RM Acquisition LLC. | | |
| Address | 1100 West Idaho Street SUITE 310 Boise Idaho United States 83702 | | |
| Factory | N/A | | |
| Address | N/A | | |

1.2 General description of EUT

| Product Name | Bluetooth ANC Headset | | | |
|---|---|--|--|--|
| Model No. | ClearDryve 220S | | | |
| Series model | CD220, CD180, CD210, CD300 | | | |
| Note | All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose. | | | |
| Operation Frequency: | 2402MHz-2480MHz | | | |
| Modulation Type: | GFSK | | | |
| Rate data: | 1Mbps; 2Mbps | | | |
| Channel Spacing: | 2MHz | | | |
| Number of Channels: | 40 | | | |
| Antenna Type: | PCB antenna | | | |
| Antenna Gain: | 3.3 dBi (Provided by customer) | | | |
| Power supply or adapter information | DC3.7V | | | |
| Hardware Version | N/A | | | |
| Software Version | N/A | | | |
| Note: For a more detailed description, please refer to Specification or User's Manual supplied by | | | | |

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



2 Test summary

| No. | Test item | Result | Remark |
|-----|---|--------|--------|
| 1 | Antenna Requirement | Pass | |
| 2 | Conducted Emissions at AC Power Line (150kHz-30MHz) | Pass | |
| 3 | Conducted Peak Output Power | Pass | |
| 4 | Minimum 6dB Bandwidth | Pass | |
| 5 | Power Spectrum Density | Pass | |
| 6 | Conducted Band Edges Measurement | Pass | |
| 7 | Conducted Spurious Emissions | Pass | |
| 8 | Radiated Spurious Emissions | Pass | |
| 9 | Radiated Emissions which fall in the restricted bands | Pass | |



3 Test Configuration

3.1 Test mode

| Test Mode Note 1 | Description | | |
|--|---|--|--|
| TX | Keep the EUT in continuously transmitting with modulation mode. | | |
| RX Keep the EUT in receiving mode | | | |
| TX Low channel | Keep the EUT in continuously transmitting mode in low channel | | |
| TX middle channel Keep the EUT in continuously transmitting mode in middle channel | | | |
| TX high channel | Keep the EUT in continuously transmitting mode in high channel | | |

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode Note 2 to fix the TX or Rx frequency that was for the purpose of the measurements.





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3.2 Operation Frequency each of channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| | | | | | | | |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |

3.3 Test channel

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2402MHz |
| The middle channel | 2442MHz |
| The Highest channel | 2480MHz |

3.4 Auxiliary equipment

| Device Type | Manufacturer | Model Name | Serial No. | Remark | | | |
|---|--------------|------------|------------|------------------------------------|--|--|--|
| PC | Lenovo | E460C | N/A | From lab (No.BLA-ZC-BS-2022005) | | | |
| Note: "" mean no any auxiliary device during testing. | | | | | | | |

3.5 Test environment

| Environment | Temperature | Voltage | |
|-------------|-------------|---------|--|
| Normal | 25°C | DC 3.7V | |



4 Laboratory information

4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

| Company name: | BlueAsia of Technical Services(Shenzhen) Co., Ltd. Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, | | |
|--------------------------|---|--|--|
| Address: | Shenzhen, Guangdong Province, China | | |
| CNAS accredited No.: | L9788 | | |
| A2LA Cert. No.: | 5071.01 | | |
| FCC Designation No.: | CN1252 | | |
| ISED CAB identifier No.: | CN0028 | | |
| Telephone: | +86-755-28682673 | | |
| FAX: | +86-755-28682673 | | |

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

| Parameter | Expanded Uncertainty |
|--|----------------------|
| Radiated Emission(9kHz-30MHz) | ±4.34dB |
| Radiated Emission(30Mz-1000MHz) | ±4.24dB |
| Radiated Emission(1GHz-18GHz) | ±4.68dB |
| AC Power Line Conducted Emission(150kHz-30MHz) | ±3.45dB |
| Occupied Channel Bandwidth | ±5 % |
| RF output power, conducted | ±1.5 dB |
| Power Spectral Density, conducted | ±3.0 dB |
| Unwanted Emissions, conducted | ±3.0 dB |
| Temperature | ±3 °C |
| Supply voltages | ±3 % |
| Time | ±5 % |



5 Test equipment

| Equipment No. | Equipment Name | Model No. | Manufactu re | S/N | Cal. Date | Next Cal. Date |
|---------------|-------------------------------------|------------------------|---------------------|------------------|------------|-------------------|
| BLA-EMC-008 | Spectrum | FSP40 | R&S | 100817 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-009 | EMI Receiver | ESR7 | R&S | 101199 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-011 | LISN | ENV216 | R&S | 101372 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-012 | broad band Antenna | VULB9168 | Schwarz beck | 00836 P:00227 | 2022/10/12 | 2025/10/11 |
| BLA-EMC-013 | Horn Antenna | BBHA9120D | Schwarz beck | 01892 | 2022/09/13 | 2025/09/12 |
| BLA-EMC-014 | Amplifier | PA_000318G-4 5 | SKET | PA2018043003 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-016 | Signal Generator | N5182A | Agilent | MY52420567 | 2023/11/16 | 2024/11/15 |
| BLA-EMC-028 | Spectrum | N9020A | Agilent | MY53420839 | 2023/11/16 | 2024/11/15 |
| BLA-EMC-038 | Spectrum | N9020A | Agilent | MY49100060 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-041 | LISN | AT166-2 | ATTEN | AKK1806000003 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-042 | Power sensor | RPR3006W | DARE | 14I00889SN042 | 2023/09/01 | 2024/08/31 |
| BLA-EMC-043 | Loop antenna | FMZB1519B | SCHNARZBE CK | 00102 | 2022/09/14 | 2025/09/13 |
| BLA-EMC-044 | Wideband radio communication tester | CMW500 | R&S | 132429 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-045 | Impedance stable network | ISNT8-cat6 | TESEQ | 53580 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-046 | Filter bank | 2.4G/5G Filter bank | SKET | N/A | 2024/07/07 | 2025/07/06 |
| BLA-EMC-061 | Receiver | ESPI7 | R&S | 101477 | 2024/07/07 | 2025/07/06 |
| BLA-EMC-062 | Signal Generator | N5181A | Agilent | MY46240904 | 2024/07/07 | 2025/07/06 |
| BLA-EMC-064 | Signal Generator | N5182B | KEYSIGHT | MY58108892 | 2024/07/07 | 2025/07/06 |
| BLA-EMC-065 | broadband Antenna | VULB9168 | Schwarz beck 01065P | | 2022/12/12 | 2025/12/11 |
| BLA-EMC-066 | Amplifier | LNPA_30M01G -30 | SKET | SK2021060801 | 2024/07/07 | 2025/07/06 |
| BLA-EMC-079 | Spectrum | N9020A | Agilent | MY54420161 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-080 | Signal Generator | N5182A | Agilent | MY47420955 | 2023/08/30 | 2024/08/29 |
| BLA-EMC-086 | Amplifier | LNPA_18G40G- 50dB | SKET | SK2022071301 | 2023/08/14 | 2024/08/13 |



6 Test result

6.1 Antenna requirement

| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
|---------------|----------------------------------|
| Test Method | N/A |

6.1.1 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.3 dBi.



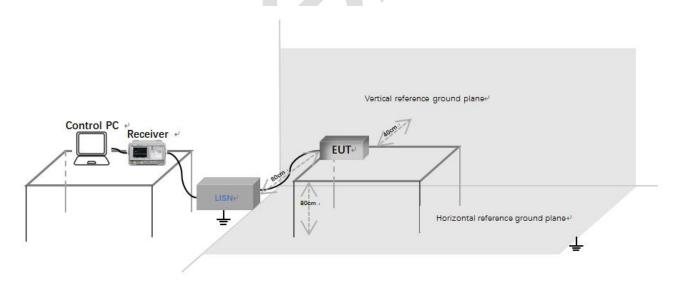
6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
|------------------------|----------------------------------|
| Test Method | ANSI C63.10 (2013) Section 6.2 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |

6.2.1 Limit

| Fire access of a main air m/MUL-V | Conducted limit(dBµV) | | | | | | |
|---|-----------------------|-----------|--|--|--|--|--|
| Frequency of emission(MHz) | Quasi-peak | Average | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | |
| 0.5-5 | 56 | 46 | | | | | |
| 5-30 | 60 | 50 | | | | | |
| *Decreases with the logarithm of the frequency. | | | | | | | |

6.2.2 Test setup



Description of test setup connection:

- a) Connect the control PC to the receiver through a USB to GPIB cable;
- b) The receiver is connected to the LISN through a coaxial line;
- c) Connect the power port of LISN to the EUT.

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6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

%RH

Humidity:

Sweep Time: 10 ms

RBW: 9 KHz

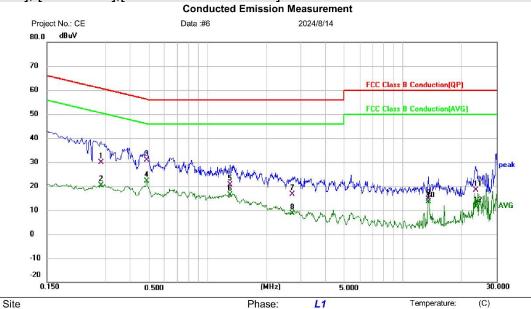
VBW: 30 KHz

ESPI



6.2.4 Test data

[Test mode: TX]; [Line: Line]; [Power:AC120V/60Hz]



Power:

Distance:

Limit: FCC Class B Conduction(QP) EUT: Bluetooth ANC Headset

M/N: ClearDryve 220

Mode: BLE1M TX

Note:

| No. M | lk. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|--------|-----------|------------------|-------------------|------------------|-------|----------------|----------|-------------------|-----------------|---------------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | cm | degree | Comment |
| 1 | 0.2819 | 19.96 | 9.99 | 29.95 | 60.76 | -30.81 | QP | | | |
| 2 | 0.2819 | 10.33 | 9.99 | 20.32 | 50.76 | -30.44 | AVG | | | |
| 3 | 0.4860 | 21.11 | 9.84 | 30.95 | 56.24 | -25.29 | QP | | | |
| 4 * | 0.4860 | 12.36 | 9.84 | 22.20 | 46.24 | -24.04 | AVG | | | |
| 5 | 1.2980 | 10.73 | 9.90 | 20.63 | 56.00 | -35.37 | QP | | | |
| 6 | 1.2980 | 6.42 | 9.90 | 16.32 | 46.00 | -29.68 | AVG | | | |
| 7 | 2.7180 | 6.52 | 10.09 | 16.61 | 56.00 | -39.39 | QP | | | |
| 8 | 2.7180 | -1.36 | 10.09 | 8.73 | 46.00 | -37.27 | AVG | | | |
| 9 | 13.4180 | 15.40 | -0.81 | 14.59 | 60.00 | -45.41 | QP | | | |
| 10 | 13.4180 | 14.45 | -0.81 | 13.64 | 50.00 | -36.36 | AVG | | | |
| 11 | 23.5700 | 3.47 | 14.96 | 18.43 | 60.00 | - 41.57 | QP | | | |
| 12 | 23.5700 | -3.22 | 14.96 | 11.74 | 50.00 | - 38.26 | AVG | | | |
| :Maxir | num data | x:Over lim | it !:over | margin | | | | | | (Reference On |

Spectrum Analyzer:

Test Result: Pass

Receiver:

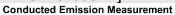
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

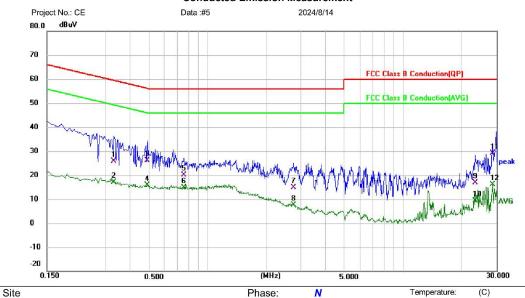
ESPI_1

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[Test mode: TX]; [Line: Neutral]; [Power: AC120V/60Hz]





Limit: FCC Class B Conduction(QP)

EUT: Bluetooth ANC Headset

M/N: ClearDryve 220

Mode: BLE1M TX

Note:

| Mary Control of the and the control of the control | - A Y P THY THY | Avg |
|---|-----------------|-------------------|
| (MHz) | 5.000 | 30.000 |
| Phase: | N | Temperature: (C) |
| Power: | | Humidity: %RH |
| Distance: | RBW: 9 KHz | |
| | VBW: 30 KHz | Sweep Time: 10 ms |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|---|-----|---------|------------------|-------------------|------------------|-------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | cm | degree | Comment |
| 1 | | 0.3300 | 16.09 | 9.87 | 25.96 | 59.45 | -33.49 | QP | | | |
| 2 | | 0.3300 | 7.32 | 9.87 | 17.19 | 49.45 | -32.26 | AVG | | | 8 |
| 3 | * | 0.4900 | 16.28 | 9.81 | 26.09 | 56.17 | -30.08 | QP | | | |
| 4 | | 0.4900 | 6.19 | 9.81 | 16.00 | 46.17 | -30.17 | AVG | | | |
| 5 | | 0.7580 | 10.24 | 9.93 | 20.17 | 56.00 | -35.83 | QP | | | |
| 6 | | 0.7580 | 4.89 | 9.93 | 14.82 | 46.00 | -31.18 | AVG | | | , |
| 7 | | 2.7540 | 4.91 | 10.05 | 14.96 | 56.00 | -41.04 | QP | | | |
| 8 | | 2.7540 | -2.54 | 10.05 | 7.51 | 46.00 | -38.49 | AVG | | | , |
| 9 | | 23.3100 | 2.14 | 14.84 | 16.98 | 60.00 | -43.02 | QP | | | |
| 10 | | 23.3100 | - 5.38 | 14.84 | 9.46 | 50.00 | -40.54 | AVG | | | |
| 11 | | 28.6860 | 14.01 | 15.15 | 29.16 | 60.00 | -30.84 | QP | | | |
| 12 | | 28.6860 | 0.96 | 15.15 | 16.11 | 50.00 | -33.89 | AVG | | | |
| *:Maximum data x:Over limit !:over margin | | | | | | | | | Reference Only | | |

Spectrum Analyzer:

ESPI

Test Result: Pass

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ESPI_1

Receiver:

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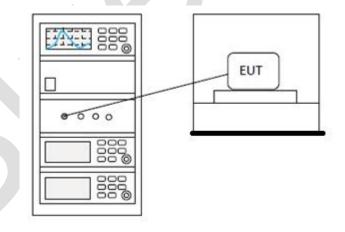
6.3 Conducted peak output Power

| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
|------------------------|----------------------------------|
| Test Method | ANSI C63.10 (2013) Section 7.8.5 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |

6.3.1 Limit

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|----------------------|--|
| | 1 for ≥50 hopping channels |
| 902-928 | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| | 1 for ≥75 non-overlapping hopping channels |
| 2400-2483.5 | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

6.3.2 Test setup



6.3.3 Test data

Pass: Please refer to appendix A for details



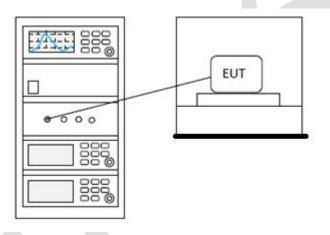
6.4 Minimum 6dB bandwidth

| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
|------------------------|-----------------------------------|
| Test Method | ANSI C63.10 (2013) Section 11.8.1 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |

6.4.1 Limit

≥500 kHz

6.4.2 Test setup



6.4.3 Test data

Pass: Please refer to appendix A for details



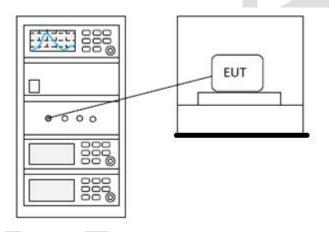
6.5 Power spectrum density

| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
|------------------------|------------------------------------|
| Test Method | ANSI C63.10 (2013) Section 11.10.2 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |

6.5.1 Limit

≤8dBm in any 3 kHz band during any time interval of continuous transmission

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details



6.6 Conducted Band Edges Measurement

| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
|------------------------|--|
| Test Method | ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |

6.6.1 Limit

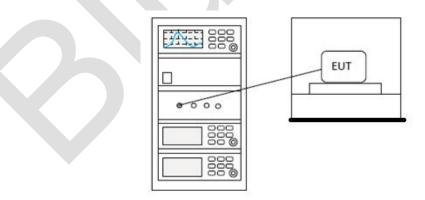
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.6.2 Test setup



6.6.3 Test data

Pass: Please refer to appendix A for details

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6.7 Conducted spurious emissions

| Test Standard | 47 CFR Part 15, Subpart C 15.247 | | | | | |
|------------------------|--|--|--|--|--|--|
| Test Method | ANSI C63.10 (2013) Section 7.8.6 & Section 11.11 | | | | | |
| Test Mode (Pre-Scan) | TX | | | | | |
| Test Mode (Final Test) | TX | | | | | |

6.7.1 Limit

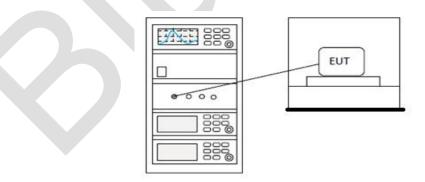
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

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6.8 Radiated spurious emissions

| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
|------------------------|--|
| Test Method | ANSI C63.10 (2013) Section 6.4,6.5,6.6 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |

6.8.1 Limit

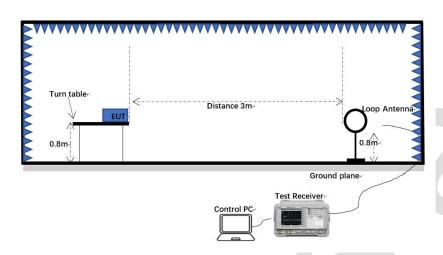
| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) | | |
|----------------|----------------------------------|------------------------------|--|--|
| 0.009-0.490 | 2400/F(kHz) | 300 | | |
| 0.490-1.705 | 24000/F(kHz) | 30 | | |
| 1.705-30.0 | 30 | 30 | | |
| 30-88 | 100 | 3 | | |
| 88-216 | 150 | 3 | | |
| 216-960 | 200 | 3 | | |
| Above 960 | 500 | 3 | | |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

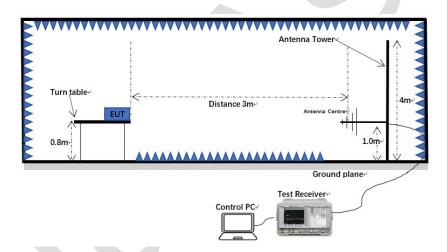


6.8.2 Test setup

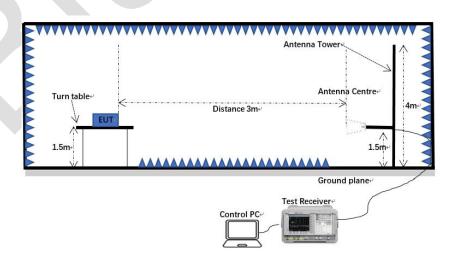
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



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6.8.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Level (dBuV) = Reading (dBuV) + Factor (dB/m)

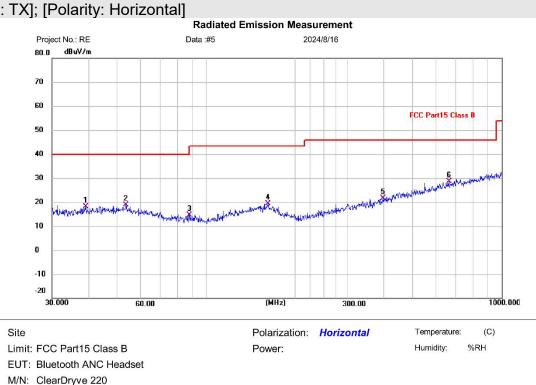
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6.8.4 Test data

Below 1GHz

[Test mode: TX]; [Polarity: Horizontal]



Mode: BLE TX

Note:

| 10 | | | | | | | | | |
|-----|--------------------|----------------|------------------|-------------------|-------------------|----------------|----------|-----|--------|
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
| 1 | 39.0245 | -1.03 | 19.24 | 18.21 | 40.00 | -21.79 | QP | Р | |
| 2 | 53.5052 | -0.99 | 19.79 | 18.80 | 40.00 | -21.20 | QP | Р | |
| 3 | 87.7248 | -0.95 | 15.53 | 14.58 | 40.00 | -25.42 | QP | Р | |
| 4 | 162.0414 | -1.05 | 20.33 | 19.28 | 43.50 | -24.22 | QP | Р | |
| 5 | 396.2415 | -1.23 | 22.88 | 21.65 | 46.00 | -24.35 | QP | Р | |
| 6 * | 663.4729 | 0.88 | 27.75 | 28.63 | 46.00 | -17.37 | QP | Р | |

Test Result: Pass

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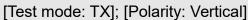
Temperature:

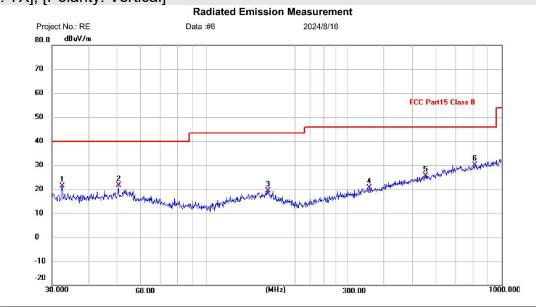
Humidity:

(C)

%RH







Limit: FCC Part15 Class B

M/N: ClearDryve 220 Mode: BLE TX

Frequency

(MHz)

32.5198

50.4089

161.4742

356.6758

552.8832

813.1115

Note:

No.

1

2

3

4

5

6 *

Polarization: Vertical Power: EUT: Bluetooth ANC Headset

| Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|----------------|------------------|-------------------|-------------------|----------------|----------|-----|--------|
| 2.89 | 18.57 | 21.46 | 40.00 | -18.54 | QP | Р | |
| 1.85 | 19.81 | 21.66 | 40.00 | -18.34 | QP | Р | |
| -0.98 | 20.37 | 19.39 | 43.50 | -24.11 | QP | Р | |
| -0.77 | 21.47 | 20.70 | 46.00 | -25.30 | QP | Р | |
| -0.33 | 25.99 | 25.66 | 46.00 | -20.34 | QP | Р | |
| 0.15 | 30.03 | 30.18 | 46.00 | -15.82 | QP | Р | |

Test Result: Pass

Blue Asia of Technical Services (Shenzhen) Co., Ltd.

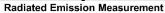
Tel: +86-755-23059481

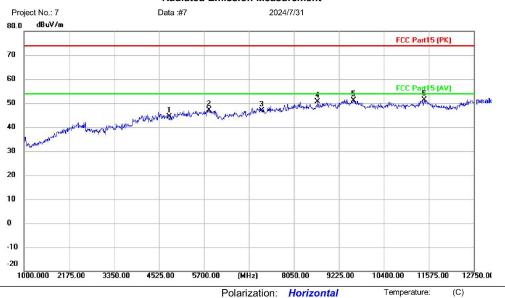


Above 1GHz:

Remark: During the test, pre-scan the BLE1M/BLE2M mode, and found the BLE1M mode which it is worse case.

[Test mode: TX low channel]; [Polarity: Horizontal]





Site

Limit: FCC Part15 (PK)

EUT: Bluetooth ANC Headset

M/N: ClearDryve 220 Mode: BLE TX 2402

Note:

| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|----|----------|------------------|-------------------|------------------|--------|----------------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4804.000 | 38.23 | 6.03 | 44.26 | 74.00 | -29.74 | peak | |
| 2 | | 5829.250 | 38.19 | 8.86 | 47.05 | 74.00 | - 26.95 | peak | |
| 3 | | 7206.000 | 37.54 | 9.45 | 46.99 | 74.00 | -27.01 | peak | |
| 4 | | 8672.750 | 38.63 | 11.95 | 50.58 | 74.00 | -23.42 | peak | |
| 5 | | 9608.000 | 37.83 | 13.21 | 51.04 | 74.00 | -22.96 | peak | |
| 6 | * | 11457.50 | 37.34 | 13.95 | 51.29 | 74.00 | -22.71 | peak | |

Power:

Test Result: Pass

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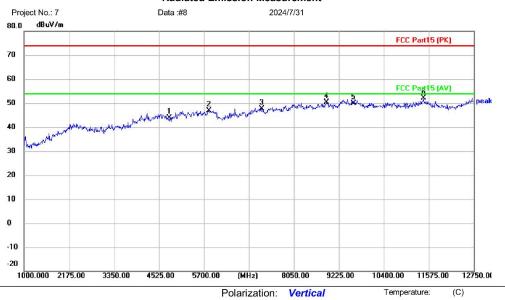
Tel: +86-755-23059481

%RH



[Test mode: TX low channel]; [Polarity: Vertical]





Site Limit: FCC Part15 (PK)

EUT: Bluetooth ANC Headset

M/N: ClearDryve 220 Mode: BLE TX 2402

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|----------------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4804.000 | 37.81 | 6.03 | 43.84 | 74.00 | -30.16 | peak | |
| 2 | | 5829.250 | 38.07 | 8.86 | 46.93 | 74.00 | - 27.07 | peak | |
| 3 | | 7206.000 | 38.22 | 9.45 | 47.67 | 74.00 | -26.33 | peak | |
| 4 | | 8907.750 | 37.19 | 13.16 | 50.35 | 74.00 | -23.65 | peak | |
| 5 | | 9608.000 | 36.63 | 13.21 | 49.84 | 74.00 | -24.16 | peak | |
| 6 | * | 11434.00 | 38.28 | 13.85 | 52.13 | 74.00 | -21.87 | peak | |

Power:

Test Result: Pass

4

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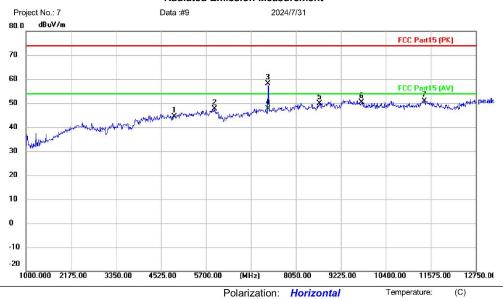
Tel: +86-755-23059481

%RH



[Test mode: TX middle channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site

Limit: FCC Part15 (PK) EUT: Bluetooth ANC Headset

M/N: ClearDryve 220 Mode: BLE TX 2442

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|--|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment | |
| 1 | | 4884.000 | 38.28 | 6.12 | 44.40 | 74.00 | -29.60 | peak | | |
| 2 | , | 5923.250 | 38.55 | 9.03 | 47.58 | 74.00 | -26.42 | peak | | |
| 3 | | 7321.500 | 48.98 | 9.17 | 58.15 | 74.00 | -15.85 | peak | | |
| 4 | * - | 7321.500 | 38.41 | 9.17 | 47.58 | 54.00 | -6.42 | AVG | | |
| 5 | , | 8661.000 | 37.86 | 11.92 | 49.78 | 74.00 | -24.22 | peak | | |
| 6 | 9 | 9768.000 | 36.57 | 13.81 | 50.38 | 74.00 | -23.62 | peak | | |
| 7 | | 11410.50 | 37.16 | 13.75 | 50.91 | 74.00 | -23.09 | peak | | |

Power:

x:Over limit !:over margin *:Maximum data (Reference Only ESR_1 Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

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Temperature:

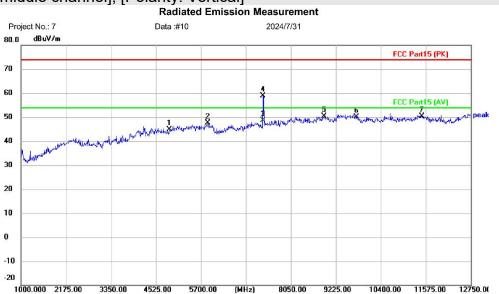
Humidity:

(C)

%RH



[Test mode: TX middle channel]; [Polarity: Vertical]



Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: Bluetooth ANC Headset

M/N: ClearDryve 220 Mode: BLE TX 2442

Note:

Site

| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4884.000 | 38.86 | 6.12 | 44.98 | 74.00 | -29.02 | peak | |
| 2 | | 5876.250 | 38.58 | 8.94 | 47.52 | 74.00 | -26.48 | peak | |
| 3 | * | 7321.500 | 39.35 | 9.17 | 48.52 | 54.00 | -5.48 | AVG | |
| 4 | | 7326.000 | 49.57 | 9.25 | 58.82 | 74.00 | -15.18 | peak | |
| 5 | | 8919.500 | 37.50 | 12.99 | 50.49 | 74.00 | -23.51 | peak | |
| 6 | | 9768.000 | 36.41 | 13.81 | 50.22 | 74.00 | -23.78 | peak | |
| 7 | | 11469.25 | 36.50 | 13.99 | 50.49 | 74.00 | -23.51 | peak | |

Power:

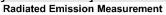
Test Result: Pass

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[Test mode: TX High channel]; [Polarity: Horizontal]





Power:

Site

Limit: FCC Part15 (PK)

EUT: Bluetooth ANC Headset M/N: ClearDryve 220 Mode: BLE TX 2480

Freq.

MHz

4960.000

5899.750

7440.000

8954.750

9920.000

11445.75

Reading

Level

dBuV

37.99

38.82

38.45

37.73

35.40

36.86

Correct

Factor

dB

7.04

9.06

10.04

12.60

13.08

13.90

50.33

48.48

50.76

Note:

No. Mk.

2

3

5

| Measure- ment | Limit | Over | | | |
|------------------|--------|--------|----------|---------|--|
| dBuV/m | dBuV/m | dB | Detector | Comment | |
| 45.03 | 74.00 | -28.97 | peak | | |
| 47.88 | 74.00 | -26.12 | peak | | |
| 48.49 | 74.00 | -25.51 | peak | | |

peak

peak

peak

Humidity:

%RH

| *:Maximum d | ata | x:Over limit | !:over margin | | | Reference Only |
|-------------|------|--------------|---------------|--------------------|-------|----------------|
| Receiver: | ESR_ | _1 | | Spectrum Analyzer: | FSP40 | |

74.00 -23.67

74.00 -25.52

74.00 -23.24

Test Result: Pass

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%RH

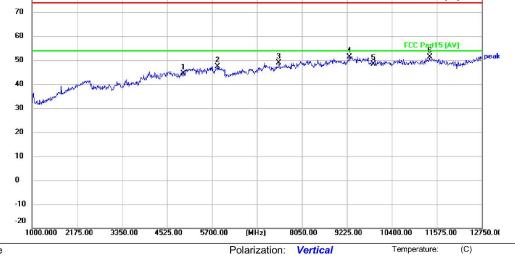


[Test mode: TX High channel]; [Polarity: Vertical] Radiated Emission Measurement

Project No.: 7

dBuV/m





Site Limit: FCC Part15 (PK)

EUT: Bluetooth ANC Headset M/N: ClearDryve 220

Mode: BLE TX 2480

Note:

| No. | Mk | c. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4960.000 | 37.40 | 7.04 | 44.44 | 74.00 | -29.56 | peak | |
| 2 | | 5841.000 | 38.47 | 8.82 | 47.29 | 74.00 | -26.71 | peak | |
| 3 | | 7440.000 | 38.72 | 10.04 | 48.76 | 74.00 | -25.24 | peak | |
| 4 | | 9295.500 | 37.83 | 13.58 | 51.41 | 74.00 | -22.59 | peak | |
| 5 | | 9920.000 | 35.29 | 13.08 | 48.37 | 74.00 | -25.63 | peak | |
| 6 | * | 11387.00 | 37.82 | 13.60 | 51.42 | 74.00 | -22.58 | peak | |

Power:

x:Over limit !:over margin *:Maximum data (Reference Only ESR_1 Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

4

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6.9 Radiated emissions which fall in the restricted bands

| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
|------------------------|-----------------------------------|
| Test Method | ANSI C63.10 (2013) Section 6.10.5 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |

6.9.1 Limit

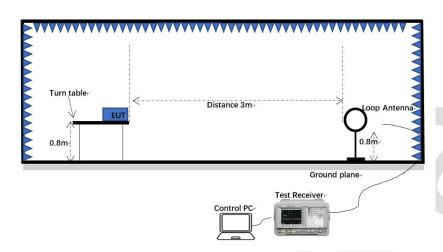
| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

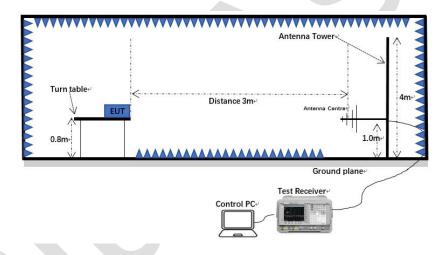


6.9.2 Test setup

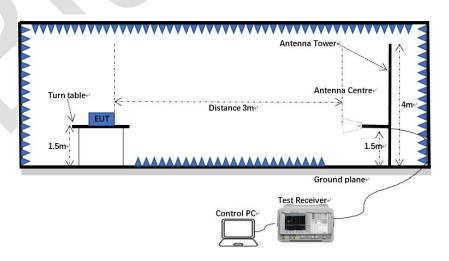
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



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6.9.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

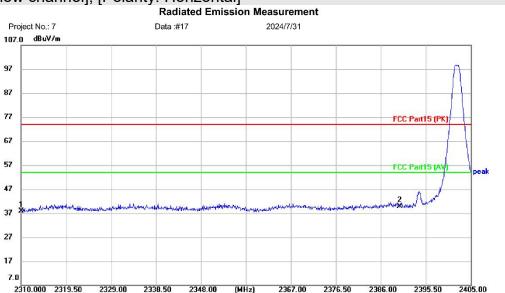
Temperature: Humidity:



6.9.4 Test data

Remark: During the test, pre-scan the BLE1M/BLE2M mode, and found the BLE1M mode which it is worse case.

[Test mode: TX low channel]; [Polarity: Horizontal]



Polarization: Horizontal

Site Limit: FCC Part15 (PK)

EUT: Bluetooth ANC Headset

M/N: ClearDryve 220 Mode: BLE TX 2402

Note:

| No. | Mł | k. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|----|------|-------|------------------|-------------------|------------------|--------|--------|----------|---------|
| - | | i | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310 | 0.000 | 40.59 | -2.67 | 37.92 | 74.00 | -36.08 | peak | |
| 2 | * | 2390 | 0.000 | 42.14 | -2.24 | 39.90 | 74.00 | -34.10 | peak | |

Power:

*:Maximum data x:Over limit !:over margin \(\text{Reference Only } \)

Receiver: ESR_1 \(\text{Spectrum Analyzer:} \)

\$\$FSP40\$

Test Result: Pass

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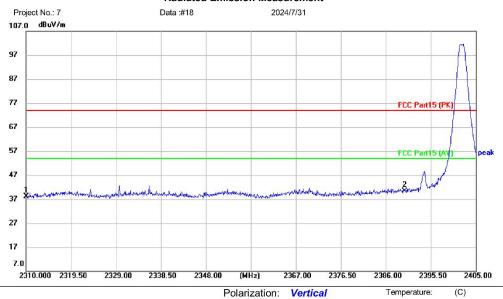
Tel: +86-755-23059481

%RH



[Test mode:TX low channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site Limit: FCC Part15 (PK)

EUT: Bluetooth ANC Headset M/N: ClearDryve 220

Mode: BLE TX 2402

Note:

| No. | М | k. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|---|-----|--------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 231 | 10.000 | 40.70 | - 2.67 | 38.03 | 74.00 | -35.97 | peak | |
| 2 | * | 239 | 90.000 | 42.54 | -2.24 | 40.30 | 74.00 | -33.70 | peak | |

Power:

*:Maximum data x:Over limit !:over margin \tag{Reference Only}

Receiver: ESR_1 Spectrum Analyzer: FSP40

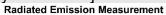
Test Result: Pass

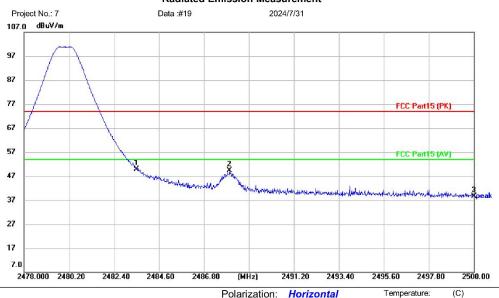
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481



[Test mode: TX High channel]; [Polarity: Horizontal]





Site Limit: FCC Part15 (PK)

Polarization: Horizontal

Temperature:

Power:

Humidity: %RH

EUT: Bluetooth ANC Headset M/N: ClearDryve 220 Mode: BLE TX 2480

Note:

| No. | М | k. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|---|-----|--------|------------------|-------------------|------------------|--------|----------------|----------|---------|
| | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 248 | 83.500 | 52.70 | - 2.71 | 49.99 | 74.00 | -24.01 | peak | |
| 2 | | 248 | 88.054 | 52.06 | - 2.74 | 49.32 | 74.00 | - 24.68 | peak | |
| 3 | | 250 | 00.000 | 41.38 | - 2.80 | 38.58 | 74.00 | -35.42 | peak | |

x:Over limit !:over margin *:Maximum data (Reference Only ESR_1 Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

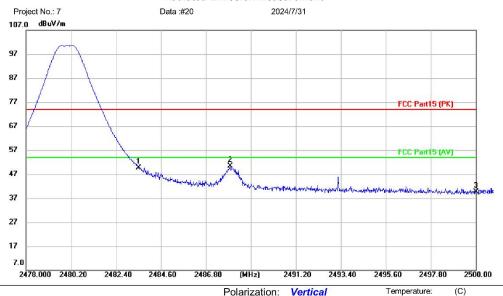
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481



[Test mode:TX High channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site

Polarization: Vertical

Temperature: Humidity:

%RH

Limit: FCC Part15 (PK) EUT: Bluetooth ANC Headset

M/N: ClearDryve 220

Mode: BLE TX 2480

Note:

| No. | Mł | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|----|----------|------------------|-------------------|------------------|--------|----------------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2483.500 | 52.33 | -2.71 | 49.62 | 74.00 | - 24.38 | peak | |
| 2 | * | 2487.988 | 53.09 | - 2.74 | 50.35 | 74.00 | -23.65 | peak | |
| 3 | | 2500.000 | 42.45 | -2.80 | 39.65 | 74.00 | -34.35 | peak | |

Power:

x:Over limit !:over margin *:Maximum data (Reference Only ESR_1 Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

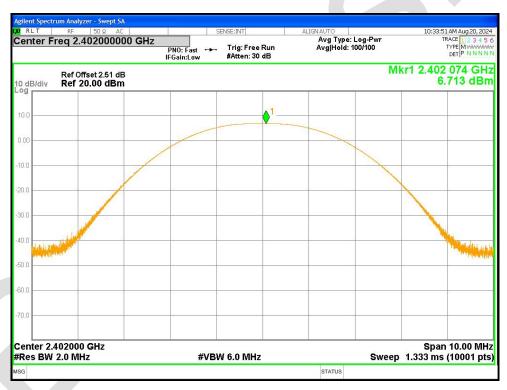


7 Appendix A

Maximum Conducted Output Power

| Condition | Mode | Frequency | Antenna | Conducted Power | Limit | Verdict |
|-----------|--------|-----------|---------|-----------------|-------|---------|
| | | (MHz) | | (dBm) | (dBm) | |
| NVNT | BLE 1M | 2402 | Ant1 | 6.713 | 30 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | 7.395 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 7.147 | 30 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | 6.752 | 30 | Pass |
| NVNT | BLE 2M | 2442 | Ant1 | 7.377 | 30 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 7.046 | 30 | Pass |

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2442MHz Ant1





Power NVNT BLE 1M 2480MHz Ant1



Power NVNT BLE 2M 2402MHz Ant1





Power NVNT BLE 2M 2442MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1







-6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|-----------|--------------------|---------|--------------------------|--------------------------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 0.696 | 0.5 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | 0.707 | 0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 0.712 | 0.5 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | 1.182 | 0.5 | Pass |
| NVNT | BLE 2M | 2442 | Ant1 | 1.159 | 0.5 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 1.141 | 0.5 | Pass |

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2442MHz Ant1





-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1





-6dB Bandwidth NVNT BLE 2M 2442MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1