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Website: www.cqa-cert.com Report Template Revision Date: 2021-11-03

Report Template Version: V05

Test Report

Report No.: CQASZ20250300571E-02 **Applicant:** Shenzhen Buzz Tech CO., LTD

Address of Applicant: 10th Floor, Guang Chang Bldg, 74#,BaoMin 1st Rd, Bao An

Shenzhen, Guangdong, China

Equipment Under Test (EUT):

Product: Smart glasses

Model No.: G01

Test Model No.: G01
Brand Name: N/A

FCC ID: 2AGFW-G01

Standards: 47 CFR Part 15, Subpart C

KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

Date of Receipt: 2025-03-26

Date of Test: 2025-03-26 to 2025-04-11

Date of Issue: 2025-4-25 Test Result : PASS*

*In the configuration tested, the EUT complied with the standards specified above.

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(Jack Ai)







1 Version

Revision History Of Report

| Report No. | Version | Description | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20250300571E-02 | Rev.01 | Initial report | 2025-4-25 |



2 Test Summary

| Test Item | Test Requirement | Test method | Result |
|---|--|------------------|--------|
| Antenna Requirement | 47 CFR Part 15.203 | 1 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10-2013 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15.247 | ANSI C63.10-2013 | PASS |
| 20dB Occupied Bandwidth | 47 CFR Part 15.247 | ANSI C63.10-2013 | PASS |
| Carrier Frequencies Separation | 47 CFR Part 15.247 | ANSI C63.10-2013 | PASS |
| Hopping Channel Number | 47 CFR Part 15.247 | ANSI C63.10-2013 | PASS |
| Dwell Time | 47 CFR Part 15.247 | ANSI C63.10-2013 | PASS |
| Pseudorandom Frequency Hopping Sequence | 47 CFR Part 15.247 | ANSI C63.10-2013 | PASS |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15.247 | ANSI C63.10-2013 | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15.247 | ANSI C63.10-2013 | PASS |
| Radiated Spurious emissions | 47 CFR Part 15.209 | ANSI C63.10-2013 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15.205/15.209 | ANSI C63.10-2013 | PASS |

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature. Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application



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4 General Information

4.1 Client Information

| Applicant: | Shenzhen Buzz Tech CO., LTD |
|--------------------------|--|
| Address of Applicant: | 10th Floor, Guang Chang Bldg, 74#,BaoMin 1st Rd, Bao An Shenzhen,Guangdong, China |
| Manufacturer: | Shenzhen Buzz Tech CO., LTD |
| Address of Manufacturer: | 10th Floor, Guang Chang Bldg, 74#,BaoMin 1st Rd, Bao An Shenzhen,Guangdong, China |
| Factory: | Shenzhen Buzz Tech CO., LTD |
| Address of Factory: | 10th Floor, Guang Chang Bldg, 74#,BaoMin 1st Rd, Bao An Shenzhen,Guangdong, China |

4.2 General Description of EUT

R

| 11 | |
|---------------------------|---|
| Product Name: | Smart glasses |
| Model No.: | G01 |
| Test Model No.: | G01 |
| Trade Mark: | N/A |
| Software Version: | V01 |
| Hardware Version: | V6 |
| Operation Frequency: | 2402MHz~2480MHz |
| Bluetooth Version: | V5.4 |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) |
| Modulation Type: | GFSK, π/4DQPSK |
| Transfer Rate: | 1Mbps/2Mbps |
| Number of Channel: | 79 |
| Hopping Channel Type: | Adaptive Frequency Hopping systems |
| Product Type: | ☐ Mobile ☐ Portable |
| Test Software of EUT: | FCC_assist_1.0.2.2 |
| Antenna Type: | Ceramic antenna |
| Antenna Gain: | 3dBi |
| Power Supply: | Li-ion battery: DC 3.7V 105mAh,0.39Wh Charge by DC 5V for adapter |
| Simultaneous Transmission | ☐ Simultaneous TX is supported and evaluated in this report. |
| | ⊠ Simultaneous TX is not supported. |



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| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 20 | 2422MHz | 40 | 2442MHz | 60 | 2462MHz |
| 1 | 2403MHz | 21 | 2423MHz | 41 | 2443MHz | 61 | 2463MHz |
| 2 | 2404MHz | 22 | 2424MHz | 42 | 2444MHz | 62 | 2464MHz |
| 3 | 2405MHz | 23 | 2425MHz | 43 | 2445MHz | 63 | 2465MHz |
| 4 | 2406MHz | 24 | 2426MHz | 44 | 2446MHz | 64 | 2466MHz |
| 5 | 2407MHz | 25 | 2427MHz | 45 | 2447MHz | 65 | 2467MHz |
| 6 | 2408MHz | 26 | 2428MHz | 46 | 2448MHz | 66 | 2468MHz |
| 7 | 2409MHz | 27 | 2429MHz | 47 | 2449MHz | 67 | 2469MHz |
| 8 | 2410MHz | 28 | 2430MHz | 48 | 2450MHz | 68 | 2470MHz |
| 9 | 2411MHz | 29 | 2431MHz | 49 | 2451MHz | 69 | 2471MHz |
| 10 | 2412MHz | 30 | 2432MHz | 50 | 2452MHz | 70 | 2472MHz |
| 11 | 2413MHz | 31 | 2433MHz | 51 | 2453MHz | 71 | 2473MHz |
| 12 | 2414MHz | 32 | 2434MHz | 52 | 2454MHz | 72 | 2474MHz |
| 13 | 2415MHz | 33 | 2435MHz | 53 | 2455MHz | 73 | 2475MHz |
| 14 | 2416MHz | 34 | 2436MHz | 54 | 2456MHz | 74 | 2476MHz |
| 15 | 2417MHz | 35 | 2437MHz | 55 | 2457MHz | 75 | 2477MHz |
| 16 | 2418MHz | 36 | 2438MHz | 56 | 2458MHz | 76 | 2478MHz |
| 17 | 2419MHz | 37 | 2439MHz | 57 | 2459MHz | 77 | 2479MHz |
| 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| 19 | 2421MHz | 39 | 2441MHz | 59 | 2461MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|---------------------|-----------|
| The Lowest channel | 2402MHz |
| The Middle channel | 2441MHz |
| The Highest channel | 2480MHz |

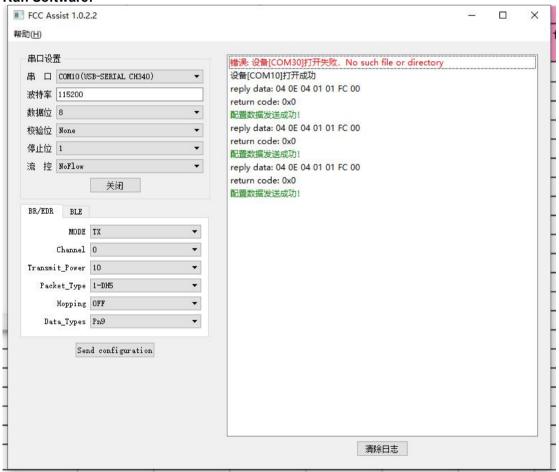




4.3 Additional Instructions

| EUT Test Software Settings: | | | | | |
|---|------------------------------------|-----------------------|--|--|--|
| Mode: | ⊠ Special software is used. | | | | |
| | ☐ Through engineering command into | the engineering mode. | | | |
| | engineering command: *#*#3646633# | *#* | | | |
| EUT Power level: | Class10 | | | | |
| Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. | | | | | |
| Mode | Channel | Frequency(MHz) | | | |
| | CH0 | 2402 | | | |
| DH1/DH3/DH5 | CH39 | 2441 | | | |
| | CH78 | 2480 | | | |
| | CH0 | 2402 | | | |
| 2DH1/2DH3/2DH5 | CH39 | 2441 | | | |
| | CH78 | 2480 | | | |

Run Software:





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4.4 Test Environment

| Operating Environment: | Operating Environment: | | | |
|------------------------|---|--|--|--|
| Temperature: | 25 °C | | | |
| Humidity: | 54% RH | | | |
| Atmospheric Pressure: | 1009mbar | | | |
| Test Mode: | Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. | | | |

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. | Remark | Supplied |
|-------------|--------------|-----------|--------|----------|
| Adapter | MI | / | / | CQA |





4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

| No. | Item | Uncertainty |
|-----|------------------------------------|--------------------|
| 1 | Radiated Emission (Below 1GHz) | 5.12dB |
| 2 | Radiated Emission (Above 1GHz) | 4.60dB |
| 3 | Conducted Disturbance (0.15~30MHz) | 3.34dB |
| 4 | Radio Frequency | 3×10 ⁻⁸ |
| 5 | Duty cycle | 0.6 % |
| 6 | Occupied Bandwidth | 1.1% |
| 7 | RF conducted power | 0.86dB |
| 8 | RF power density | 0.74 |
| 9 | Conducted Spurious emissions | 0.86dB |
| 10 | Temperature test | 0.8℃ |
| 11 | Humidity test | 2.0% |
| 12 | Supply voltages | 0.5 % |
| 13 | Frequency Error | 5.5 Hz |



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4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

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

IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

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

• CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.



4.11 Equipment List

| | | | 1 | 0.11 | 0.111 |
|-------------------------------|--------------|----------------------------|-------------------|---------------------|----------------------|
| Test Equipment | Manufacturer | Model No. | Instrument No. | Calibration Date | Calibration Due Date |
| EMI Test Receiver | R&S | FSR7 | CQA-005 | 2024/9/2 | 2025/9/1 |
| Spectrum analyzer | R&S | FSU26 | CQA-038 | 2024/9/2 | 2025/9/1 |
| Spectrum analyzer | R&S | FSU40 | CQA-075 | 2024/9/2 | 2025/9/1 |
| Preamplifier | MITEQ | AFS4-00010300-18- 10P-4 | CQA-035 | 2024/9/2 | 2025/9/1 |
| Preamplifier | MITEQ | AMF-6D-02001800- 29-20P | CQA-036 | 2024/9/2 | 2025/9/1 |
| Preamplifier | EMCI | EMC184055SE | CQA-089 | 2024/9/2 | 2025/9/1 |
| Loop antenna | Schwarzbeck | FMZB1516 | CQA-060 | 2023/9/8 | 2026/9/7 |
| Bilog Antenna | R&S | HL562 | CQA-011 | 2023/11/01 | 2026/10/31 |
| Horn Antenna | R&S | HF906 | CQA-012 | 2023/11/01 | 2026/10/31 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | CQA-088 | 2023/9/7 | 2026/9/6 |
| Coaxial Cable (Above 1GHz) | CQA | N/A | C007 | 2024/9/2 | 2025/9/1 |
| Coaxial Cable (Below 1GHz) | CQA | N/A | C013 | 2024/9/2 | 2025/9/1 |
| Antenna Connector | CQA | RFC-01 | CQA-080 | 2024/9/2 | 2025/9/1 |
| RF cable(9KHz~40GHz) | CQA | RF-01 | CQA-079 | 2024/9/2 | 2025/9/1 |
| Power meter | R&S | NRVD | CQA-029 | 2024/9/2 | 2025/9/1 |
| Power divider | MIDWEST | PWD-2533-02-SMA- 79 | CQA-067 | 2024/9/2 | 2025/9/1 |
| EMI Test Receiver | R&S | ESR7 | CQA-005 | 2024/9/2 | 2025/9/1 |
| LISN | R&S | ENV216 | CQA-003 | 2024/9/2 | 2025/9/1 |
| Coaxial cable | CQA | N/A | CQA-C009 | 2024/9/2 | 2025/9/1 |
| DC power | KEYSIGHT | E3631A | CQA-028 | 2024/9/2 | 2025/9/1 |

Test software:

| | | Software | Software |
|-----------------------------------|--------------|----------|-----------|
| | Manufacturer | brand | version |
| Radiated Emissions test software | Tonscend | JS1120-3 | Version:8 |
| Conducted Emissions test software | Audix | e3 | Version:9 |
| RF Conducted test software | Audix | e3 | V3.5.39 |

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

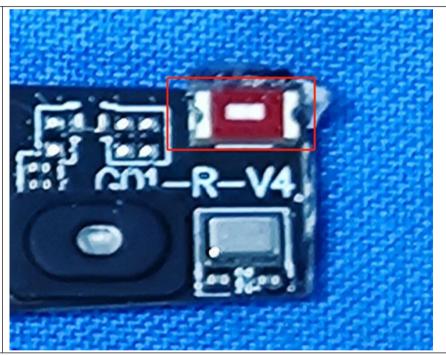
15.203 requirement:

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 a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is Ceramic antenna.

The connection/connection type between the antenna to the EUT's antenna port is: permanently attachment.

This is either permanently attachment or a unique coupling that satisfies the requirement.





5.2 Conducted Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.207 | | |
|-----------------------|---|---|---------------|
| Test Method: | ANSI C63.10: 2013 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Limit: | Limit (dBuV) | | |
| | Frequency range (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 logarithn | n of the frequency. | |
| Test Procedure: | * Decreases with the logarithm of the frequency. The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω 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. 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, 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. 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: 2013 on conducted measurement. | | |
| Test Setup: | Shielding Room EUT AC Mains LISN1 | AE LISN2 AC Main Ground Reference Plane | Test Receiver |

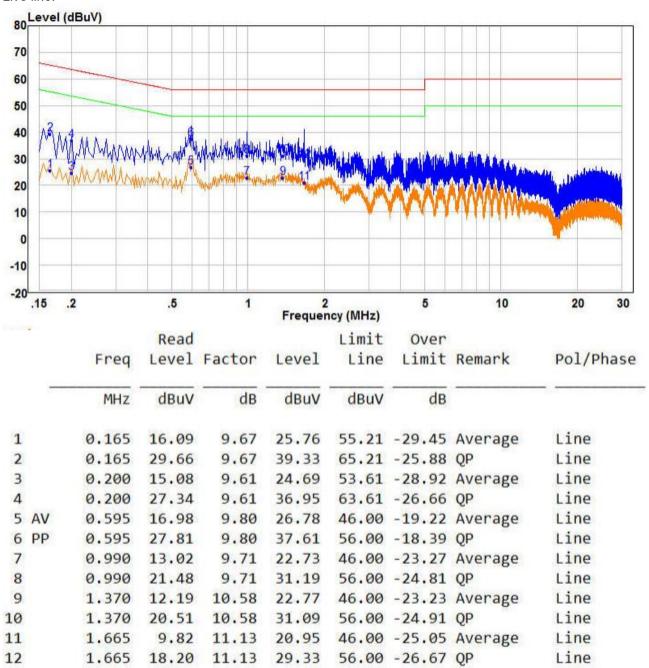


| Exploratory Test Mode: | Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. |
|------------------------|--|
| Final Test Mode: | Through Pre-scan, It has been discovered that charging is the poorest mode. Only the worst case is recorded in the report. |
| Test Voltage: | AC 120V/60Hz |
| Test Results: | Pass |



Measurement Data

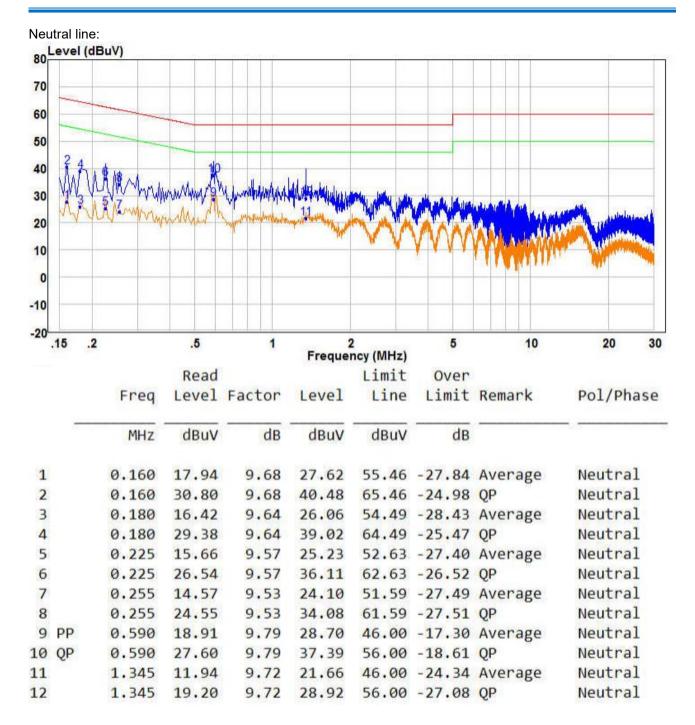
Live line:



Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





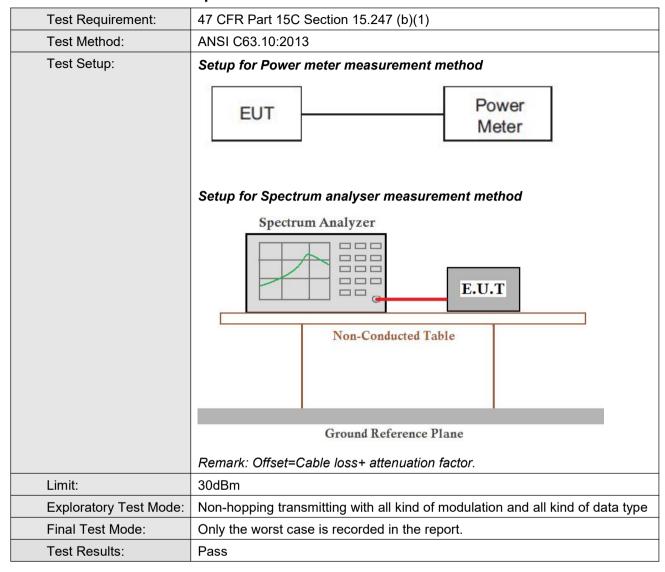
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



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5.3 Conducted Peak Output Power





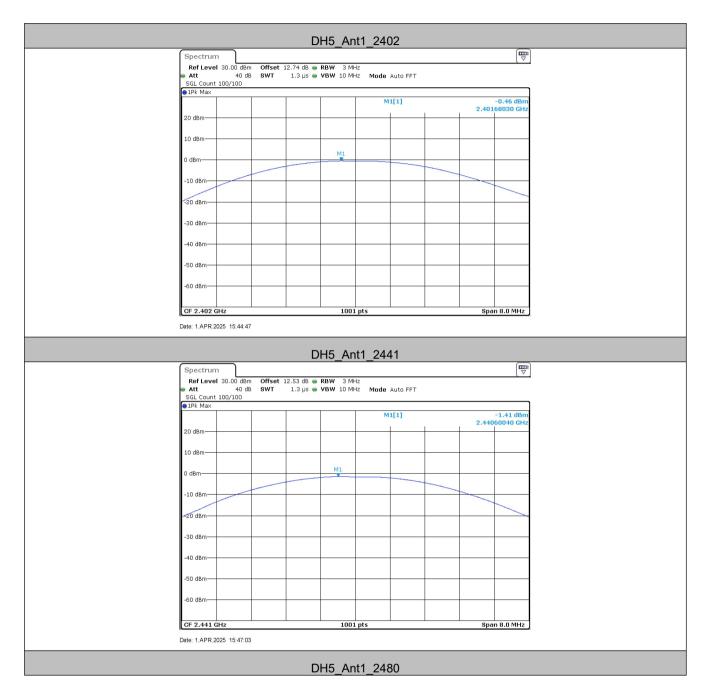
Report No.: CQASZ20250300571E-02

Measurement Data

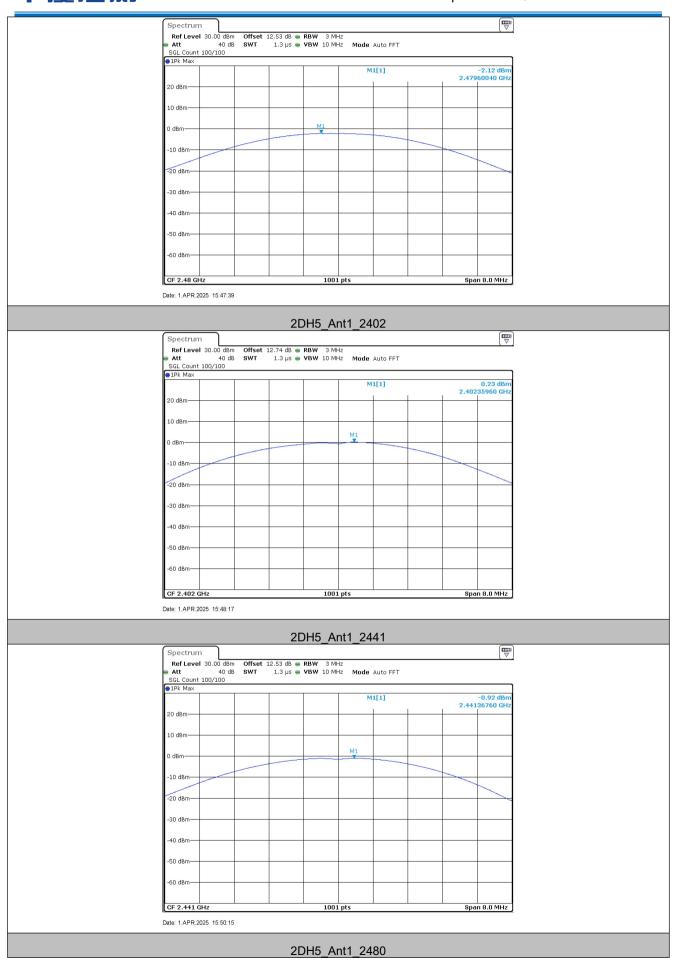
| GFSK mode | | | | |
|---------------|-------------------------|-------------|--------|--|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | |
| Lowest | -0.46 | 30 | Pass | |
| Middle | -1.41 | 30 | Pass | |
| Highest | -2.12 | 30 | Pass | |
| π/4DQPSK mode | | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | |
| Lowest 0.23 | | 30 | Pass | |
| Middle -0.92 | | 30 | Pass | |
| Highest | Highest -1.83 | | Pass | |



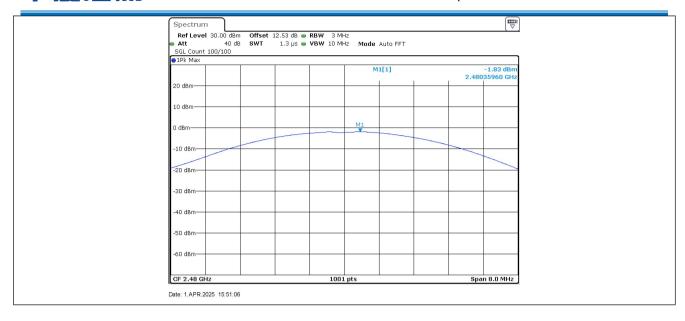
Test plot as follows:







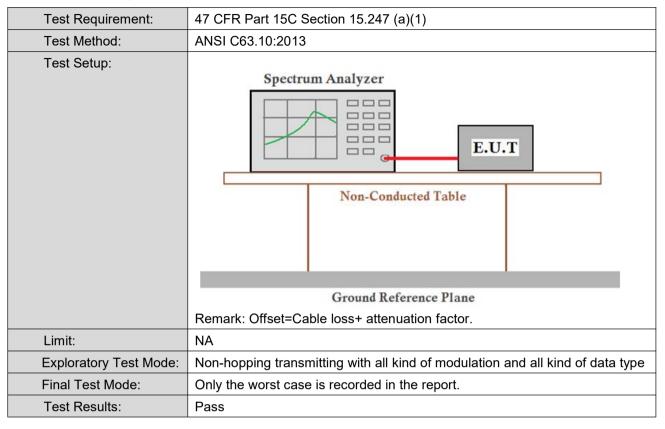






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5.4 20dB Occupied Bandwidth

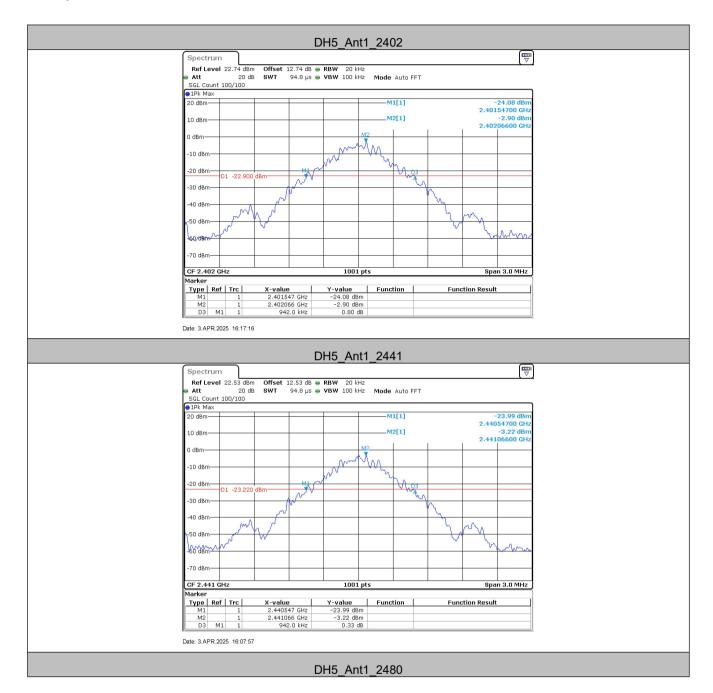


Measurement Data

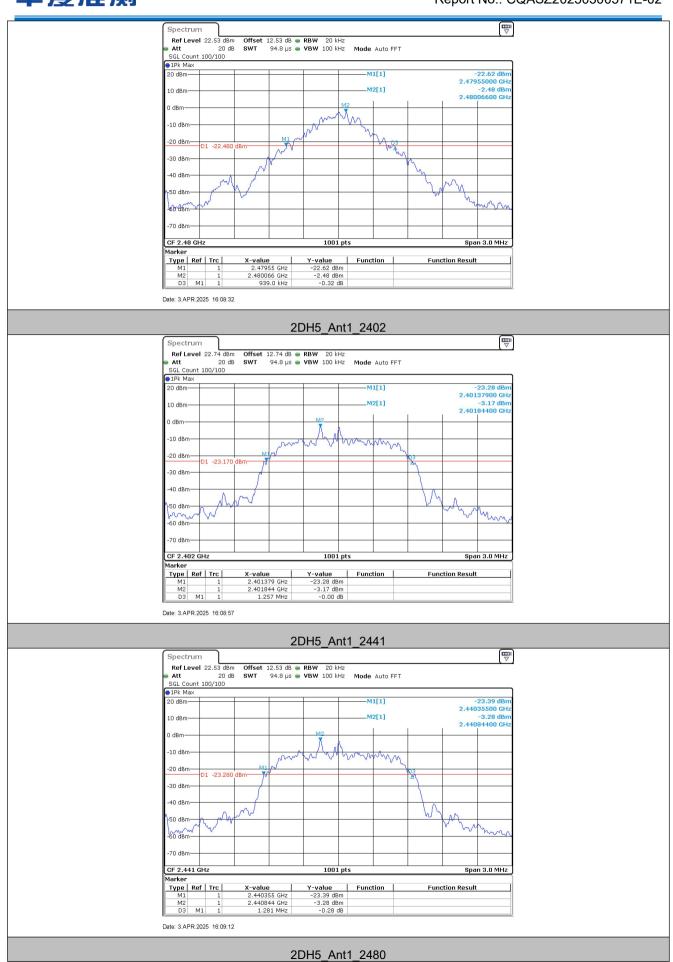
| Test channel | 20dB Occupy Bandwidth (MHz) | | |
|--------------|-----------------------------|----------|--|
| rest channel | GFSK | π/4DQPSK | |
| Lowest | 0.94 | 1.26 | |
| Middle | 0.94 | 1.28 | |
| Highest | 0.94 | 1.28 | |

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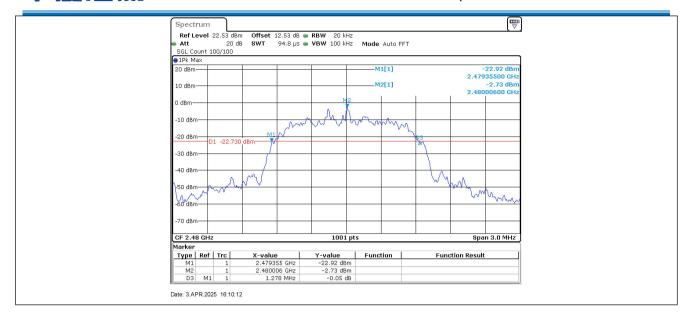
Test plot as follows:







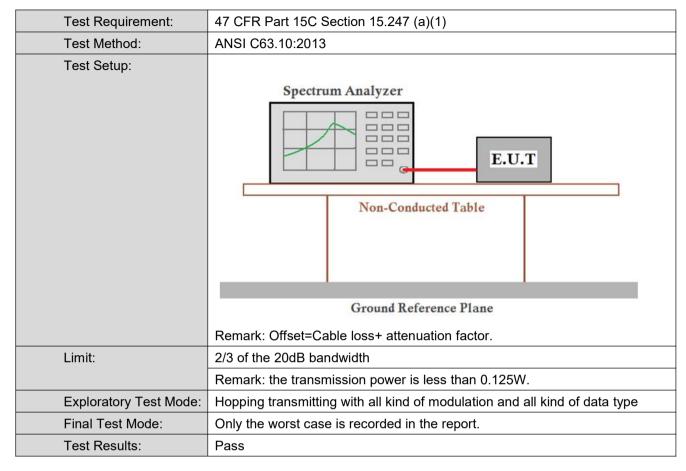








5.5 Carrier Frequencies Separation





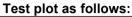
Report No.: CQASZ20250300571E-02

Measurement Data

| TestMode | Freq(MHz) | Result[MHz] | Limit[MHz] | Verdict |
|----------|-----------|-------------|------------|---------|
| DH5 | Нор | 1 | ≥0.627 | PASS |
| 2DH5 | Нор | 1.026 | ≥0.853 | PASS |

| Mode | 20dB bandwidth (MHz) (worse case) | Limit (MHz) (Carrier Frequencies Separation) |
|----------|-----------------------------------|--|
| GFSK | 0.94 | ≥0.627 |
| π/4DQPSK | 1.28 | ≥0.853 |



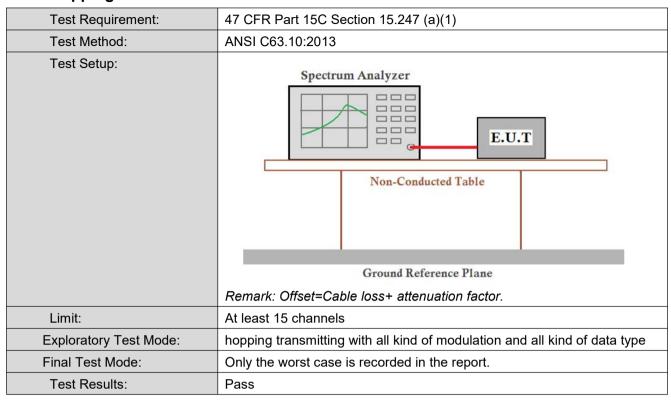






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5.6 Hopping Channel Number



Measurement Data

| Mode | Hopping channel numbers | Limit |
|----------|-------------------------|-------|
| GFSK | 79 | ≥15 |
| π/4DQPSK | 79 | ≥15 |





Test plot as follows:

