# FCC AND ISED CERTIFICATION TEST REPORT

| | | |
|---|---|---|
| **Applicant** | : | Corsair Memory, Inc. |
| **Address of Applicant** | : | 115 North McCarthy Blvd, Milpitas, CA 95035, USA |
| **Manufacturer** | : | Corsair Memory, Inc. |
| **Address of Manufacturer** | : | 115 North McCarthy Blvd, Milpitas, CA 95035, USA |
| **Equipment under Test** | : | Wireless Headset |
| **Model No.** | : | RDA0047 |
| **FCC ID** | : | 2AAFMRDA0047 |
| **IC** | : | 10954A-RDA0047 |
| **Test Standard(s)** | : | FCC Rules and Regulations Part 15 Subpart C,<br>RSS-247 Issue 3 August 2023,<br>ANSI C63.10:2013,<br>RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021) |
| **Report No.** | : | DDT-RE24080825-2E12 |
| **Issue Date** | : | 2024/11/04 |
| **Issue By** | : | Guangdong Dongdian Testing Service Co., Ltd.<br>Unit 2, Building 1, No. 17, Zongbu 2nd Road,<br>Songshan Lake Park, Dongguan, Guangdong, China, 523808 |

REPORT

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# Test Report Declare

| | | |
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**Test Standard Used:**

FCC Rules and Regulations Part 15 Subpart C,
RSS-247 Issue 3 August 2023,
ANSI C63.10:2013,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

**We Declare:**

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

| | | | |
|---|---|---|---|
| **Report No.:** | DDT-RE24080825-2E12 | | |
| **Date of Receipt:** | 2024/09/09 | **Date of Test:** | 2024/09/09 - 2024/11/04 |

**Prepared By:**

Johnson Huang

**Johnson Huang/Engineer**

**Approved By:**

Damon Hu

Certificate and Report Seal
检验检测专用章

**Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

# Revision History

| Rev. | Revisions | Issue Date | Revised By |
|---|---|---|---|
| --- | Initial issue | 2024/11/04 | |
| | | | |

# 1. Summary of Test Results

| No. | Test Parameter | Clause No. | Condition | Result |
|---|---|---|---|---|
| 1 | Peak Output Power | FCC Part 15: 15.247(b)(3), RSS-247 Issue 3 clause 5.4(d) | / | Pass |
| 2 | RF Conducted Spurious Emissions | FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5 | / | Pass |
| 3 | Radiated Emission | FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10 | / | Pass |
| 4 | Band Edge Compliance | FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10 | / | Pass |
| 5 | Antenna Requirement | FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8 | / | Pass |

Note1: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

Note2: This report reflects the the position of the PCB hole is changed, refer to DDT-R22121217-1E01. The items affected by the change have been retested, the original data and records refer to DDT-R22121217-1E01.

# 2. General Test Information

## 2.1. Description of EUT

| | | |
|---|---|---|
| EUT Name | : | Wireless Headset |
| Model Number | : | RDA0047 |
| EUT Function Description | : | Please reference user manual of this device |
| Power Supply | : | DC 5V from external USB cable, DC 3.7V Polymer Li-ion built-in battery |
| Hardware Version | : | V0.05.25 |
| Software Version | : | V0.15.146 |
| Antenna Type | : | Chip |
| Max Antenna Gain(dBi) | : | -0.9 |

Note: This EUT support Bluetooth BR/EDR/LE, 2.4 GHz SRD, this report only for Bluetooth BR/EDR.

| | | |
|---|---|---|
| Radio Specification | : | Bluetooth BR/EDR |
| Operation Frequency | : | 2402 MHz-2480 MHz |
| Modulation | : | GFSK, π/4-DQPSK, 8DPSK |

| Channel information | | | | | |
|---|---|---|---|---|---|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 0 | 2402 | 27 | 2429 | 54 | 2456 |
| 1 | 2403 | 28 | 2430 | 55 | 2457 |
| 2 | 2404 | 29 | 2431 | 56 | 2458 |
| 3 | 2405 | 30 | 2432 | 57 | 2459 |
| 4 | 2406 | 31 | 2433 | 58 | 2460 |
| 5 | 2407 | 32 | 2434 | 59 | 2461 |
| 6 | 2408 | 33 | 2435 | 60 | 2462 |
| 7 | 2409 | 34 | 2436 | 61 | 2463 |
| 8 | 2410 | 35 | 2437 | 62 | 2464 |
| 9 | 2411 | 36 | 2438 | 63 | 2465 |
| 10 | 2412 | 37 | 2439 | 64 | 2466 |
| 11 | 2413 | 38 | 2440 | 65 | 2467 |
| 12 | 2414 | 39 | 2441 | 66 | 2468 |
| 13 | 2415 | 40 | 2442 | 67 | 2469 |
| 14 | 2416 | 41 | 2443 | 68 | 2470 |
| 15 | 2417 | 42 | 2444 | 69 | 2471 |
| 16 | 2418 | 43 | 2445 | 70 | 2472 |
| 17 | 2419 | 44 | 2446 | 71 | 2473 |
| 18 | 2420 | 45 | 2447 | 72 | 2474 |
| 19 | 2421 | 46 | 2448 | 73 | 2475 |
| 20 | 2422 | 47 | 2449 | 74 | 2476 |

| | | | | | |
|---|---|---|---|---|---|
| 21 | 2423 | 48 | 2450 | 75 | 2477 |
| 22 | 2424 | 49 | 2451 | 76 | 2478 |
| 23 | 2425 | 50 | 2452 | 77 | 2479 |
| 24 | 2426 | 51 | 2453 | 78 | 2480 |
| 25 | 2427 | 52 | 2454 | | |
| 26 | 2428 | 53 | 2455 | | |

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"☒" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

## 2.2. Accessories of EUT

| Accessories | Manufacturer | Model number | Description |
|---|---|---|---|
| USB cable | Corsair | N/A | Length: 1.9m, unshielded |
| Dongle | Corsair | RDA0048 | N/A |

## 2.3. Block diagram of EUT configuration for test


## 2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: AB1565_AB1568_Airoha_Tool_Kit(ATK)_v3.2.6.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5 dB (According to the manufacturer's claims)

| Tested mode, channel, information | | | |
|---|---|---|---|
| Mode | Setting Tx Power | Channel | Frequency (MHz) |
| GFSK hopping on Tx mode | 58 | CH0 to CH78 | 2402 to 2480 |
| π/4-DQPSK hopping on Tx mode | 58 | CH0 to CH78 | 2402 to 2480 |
| 8DPSK hopping on Tx mode | 58 | CH0 to CH78 | 2402 to 2480 |
| GFSK hopping off Tx mode | 58 | CH0 | 2402 |
| | 58 | CH39 | 2441 |
| | 58 | CH78 | 2480 |
| π/4-DQPSK hopping off Tx mode | 58 | CH0 | 2402 |
| | 58 | CH39 | 2441 |
| | 58 | CH78 | 2480 |
| 8DPSK hopping off Tx mode | 58 | CH0 | 2402 |
| | 58 | CH39 | 2441 |
| | 58 | CH78 | 2480 |
| Worst-case data rates were: GFSK mode: DH5, π/4-DQPSK mode: 2DH5, 8DPSK mode: 3DH5 | | | |

## 2.5. Deviations of test standard

No deviation.

## 2.6. Test environment conditions

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

| | |
|---|---|
| Temperature range: | +15℃ to +35 ℃ |
| Humidity range: | 20% to 75% |
| Pressure range: | 86 kPa to106 kPa |

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

## 2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

## 2.8. Measurement uncertainty

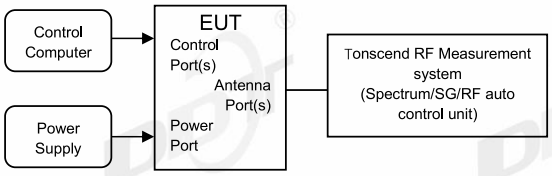
| Test Item | Uncertainty |
|---|---|
| Bandwidth | 1.1% |
| Peak Output Power (Conducted) (Spectrum analyzer) | 0.86 dB (10 MHz ≤ f < 3.6 GHz); |
| | 1.38 dB (3.6 GHz ≤ f < 8 GHz) |
| Peak Output Power (Conducted) (Power Sensor) | 0.74 dB |
| Power Spectral Density | 0.74 dB (10 MHz ≤ f < 3.6 GHz); |
| | 1.38 dB (3.6 GHz ≤ f < 8 GHz) |
| Frequencies Stability | $6.7 \times 10^{-8}$ (Antenna couple method) |
| | $5.5 \times 10^{-8}$ (Conducted method) |
| Conducted spurious emissions | 0.86 dB (10 MHz ≤ f < 3.6 GHz); |
| | 1.40 dB (3.6 GHz ≤ f < 8 GHz) |
| | 1.66 dB (8 GHz ≤ f < 26.5 GHz) |
| Uncertainty for radio frequency (RBW < 20 kHz) | $3 \times 10^{-8}$ |
| Temperature | 0.4 ℃ |
| Humidity | 2 % |
| Uncertainty for Radiation Emission test (9 kHz – 30 MHz) | 3.44 dB |
| Uncertainty for Radiation Emission test (30 MHz - 1 GHz) | 4.70 dB (Antenna Polarize: V) |
| | 4.84 dB (Antenna Polarize: H) |
| Uncertainty for Radiation Emission test (1 GHz - 40 GHz) | 4.10 dB (1 - 6 GHz) |
| | 4.40 dB (6 GHz - 18 GHz) |
| | 3.54 dB (18 GHz - 26 GHz) |
| | 4.30 dB (26 GHz - 40 GHz) |
| Uncertainty for Power line conduction emission test | 3.34dB (150KHz-30MHz) |
| | 3.72dB (9KHz-150KHz) |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |

# 3. Equipment Used During Conductive Test

| Equipment | Manufacturer | Model No. | Serial Number | Due Date |
|---|---|---|---|---|
| ☒RF Connected Test (RF Measurement System 4#) | | | | |
| Signal &Spectrum Analyzer | R&S | FSV3044 | 101173 | 2025/03/31 |
| Wideband Radio Communication Tester | R&S | CMW500 | 168801 | 2025/03/31 |
| MXG Vector Signal Generator | Agilent | N5182A | MY48180737 | 2025/03/31 |
| PSG Vector Signal Generator | Agilent | E8267D | US49060192 | 2025/08/25 |
| RF Control Unit | Tonsend | JS0806-2 | 21I8060485 | 2025/03/31 |
| TEMP&HUMI Programmable Chamber | ZHIXIANG | ZXGDJS-150L | ZX170110-A | 2025/04/22 |
| Test Software | Tonscend | JS1120-3 | Ver.3.2.22 | N/A |

# 4. Maximum Peak Output Power

## 4.1. Block diagram of test setup




## 4.2. Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

## 4.3. Test procedure

(1) The test according to ANSI C63.10-2013 clause 7.8.5.
(2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
(3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
(4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

| | |
|---|---|
| RBW: | > 20 dB bandwidth of the emission being measured. |
| VBW: | VBW ≥ RBW. |
| Span: | Approximately five times the 20 dB bandwidth, centered on a hopping channel. |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode: | Max hold |

(5) Use the marker-to-peak function to set the marker to the peak of the emission and record the results in the report.

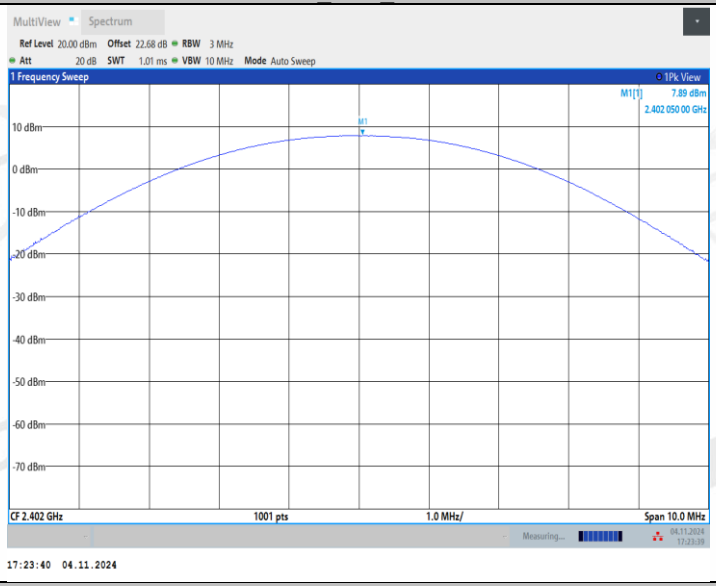
## 4.4. Test result

| Test Engineer: | Zoe | Test Site: | RF Measurement System 4# |
|---|---|---|---|
| Ambient Condition: | 22.3℃,47.1%RH | Test Date: | 2024.11.04 |
| Test Power Supply: | Battery | Sample Number: | S24080825-002 |

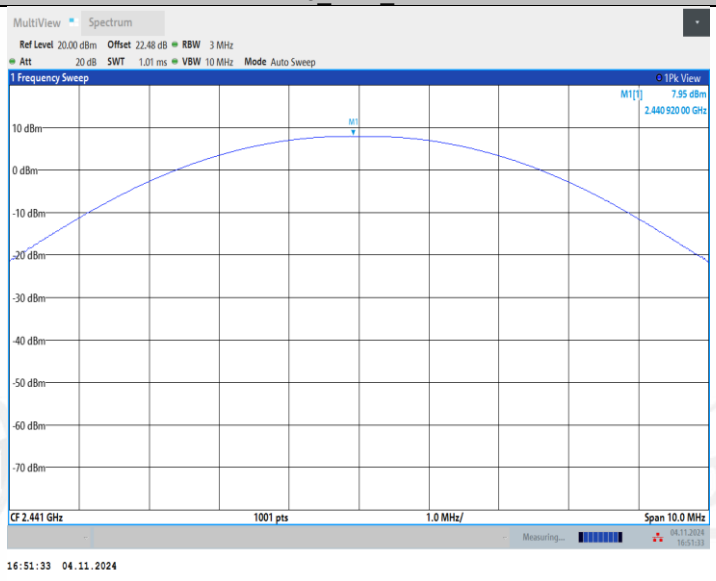
| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | EIRP[dBm] | EIRP Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| DH5 | Ant1 | 2402 | 7.89 | ≤20.97 | 6.99 | ≤30 | PASS |
| | | 2441 | 7.95 | ≤20.97 | 7.05 | ≤30 | PASS |
| | | 2480 | 8.11 | ≤20.97 | 7.21 | ≤30 | PASS |
| 2DH5 | Ant1 | 2402 | 7.97 | ≤20.97 | 7.07 | ≤30 | PASS |
| | | 2441 | 8.20 | ≤20.97 | 7.30 | ≤30 | PASS |
| | | 2480 | 8.38 | ≤20.97 | 7.48 | ≤30 | PASS |
| 3DH5 | Ant1 | 2402 | 8.26 | ≤20.97 | 7.36 | ≤30 | PASS |
| | | 2441 | 8.30 | ≤20.97 | 7.40 | ≤30 | PASS |
| | | 2480 | 8.56 | ≤20.97 | 7.66 | ≤30 | PASS |

## 4.5. Test graphs

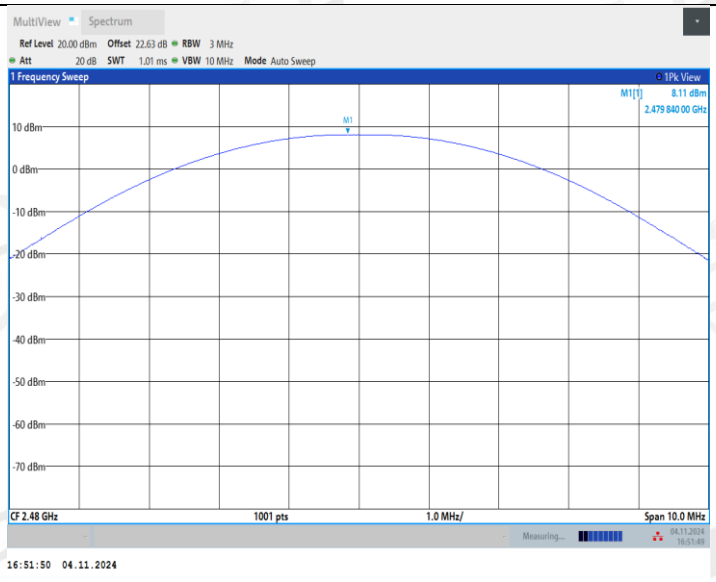
DH5_Ant1_2402



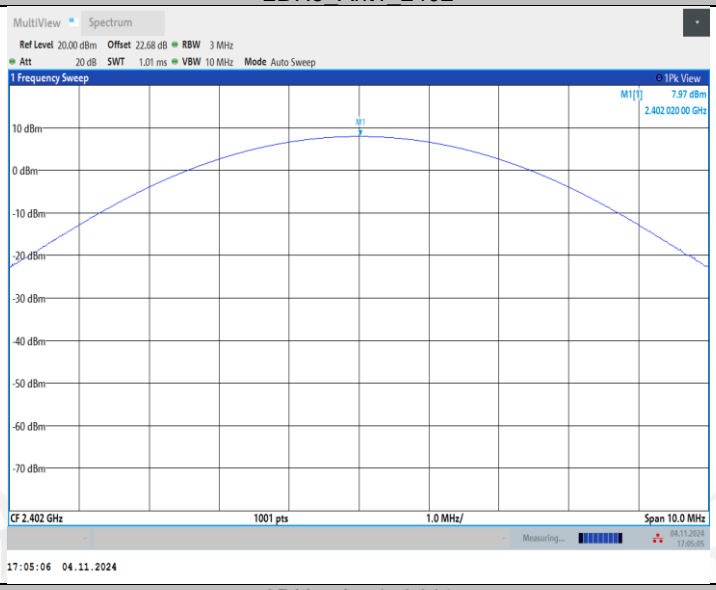

DH5_Ant1_2441



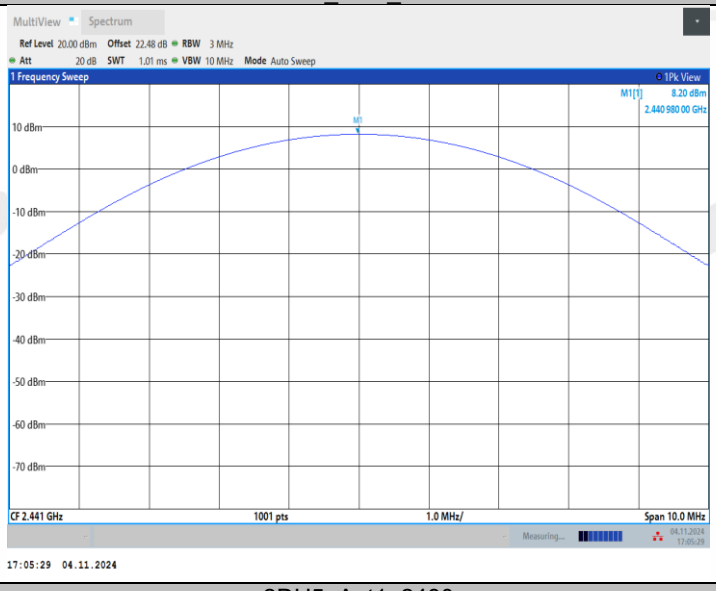

DH5_Ant1_2480



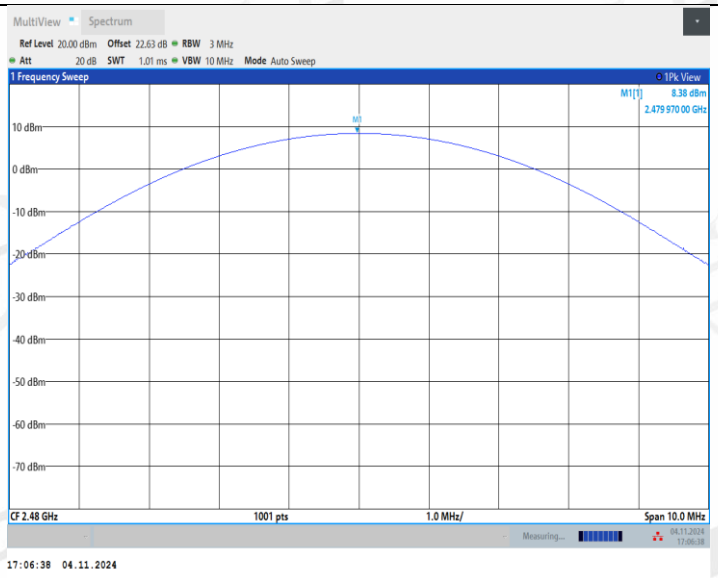

2DH5_Ant1_2402



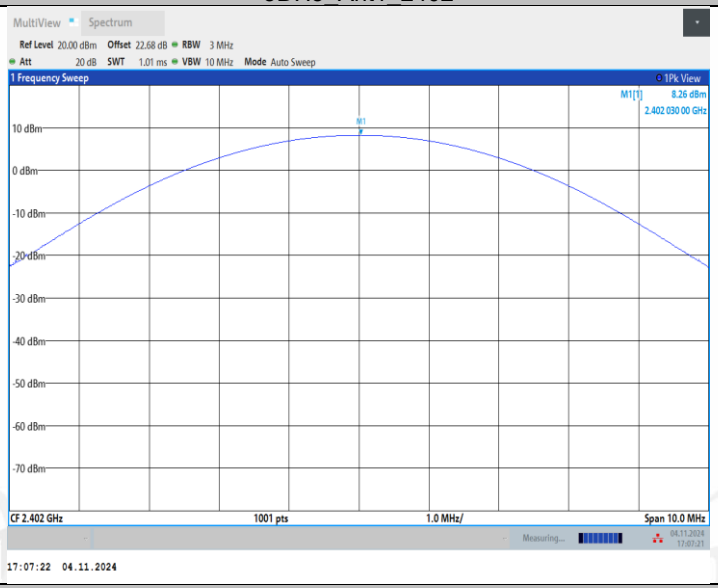

2DH5_Ant1_2441



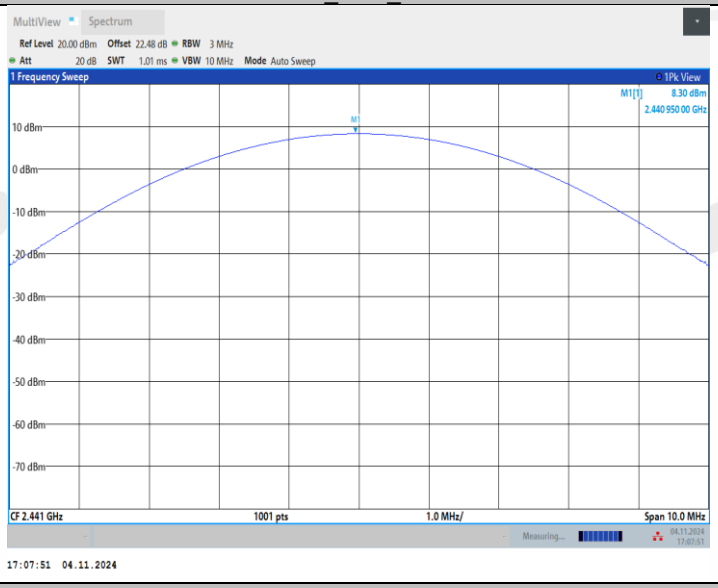

2DH5_Ant1_2480



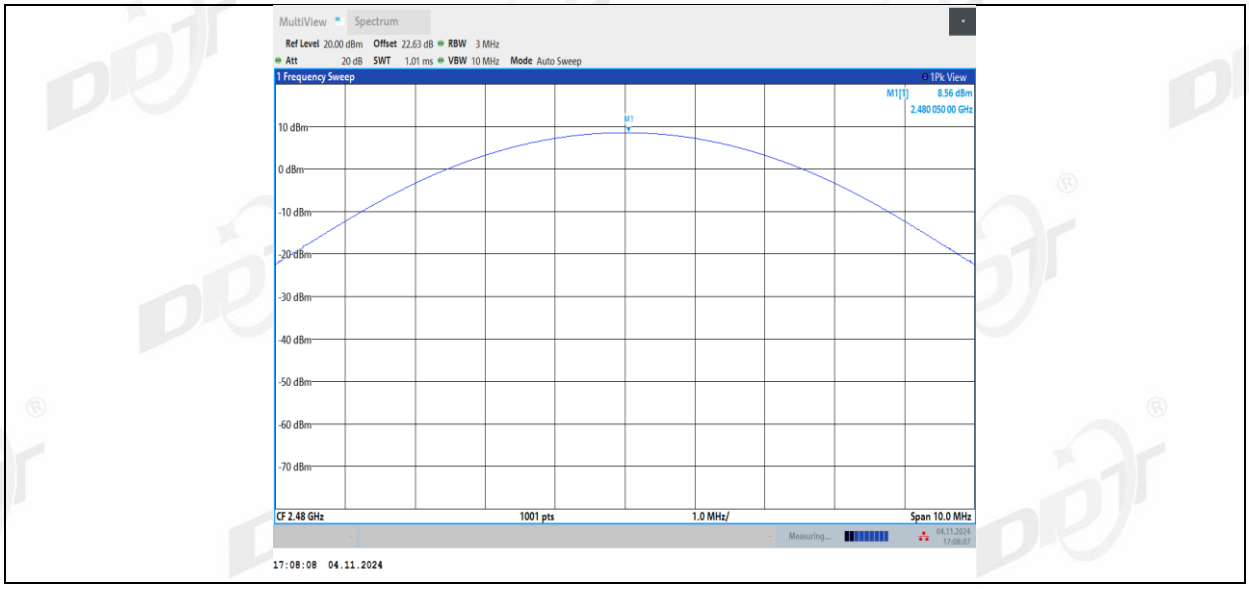

3DH5_Ant1_2402




3DH5_Ant1_2441

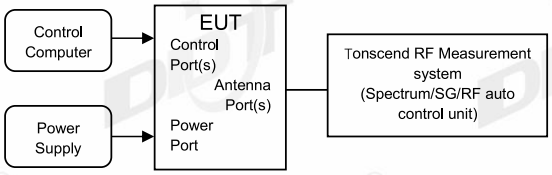



3DH5_Ant1_2480


MultiView
Spectrum
Ref Level 20.00 dBm Offset 22.63 dB RBW 3 MHz
Att 20 dB SWT 1.01 ms VBW 10 MHz Mode Auto Sweep
1 Frequency Sweep
1Pk View
M1[1] 8.56 dBm
2.480 050 00 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.48 GHz
1001 pts
1.0 MHz/
Span 10.0 MHz
Measuring...
17:08:08 04.11.2024

# 5. Band Edge Compliance (Conducted Method)

## 5.1. Block diagram of test setup




## 5.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB below the fundamental.

## 5.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.
(2) Establish a reference level by using the following procedure:

| | |
|---|---|
| RBW: | 100 kHz |
| VBW: | 300 kHz |
| Span | Encompass frequency range to be measured |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode | Max hold |

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
(4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

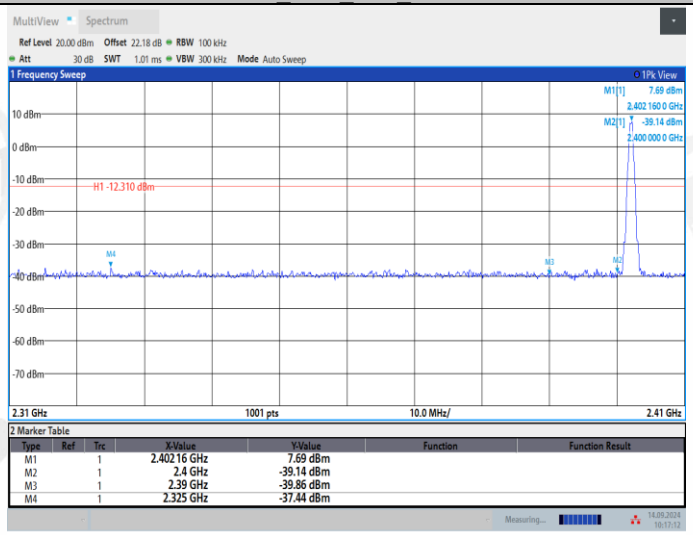
## 5.4. Test result

| Test Engineer: | Zoe | Test Site: | RF Measurement System 4# |
|---|---|---|---|
| Ambient Condition: | 23.6℃,48.2%RH | Test Date: | 2024.09.14-2024.09.14 |
| Test Power Supply: | Battery | Sample Number: | S24080825-002 |

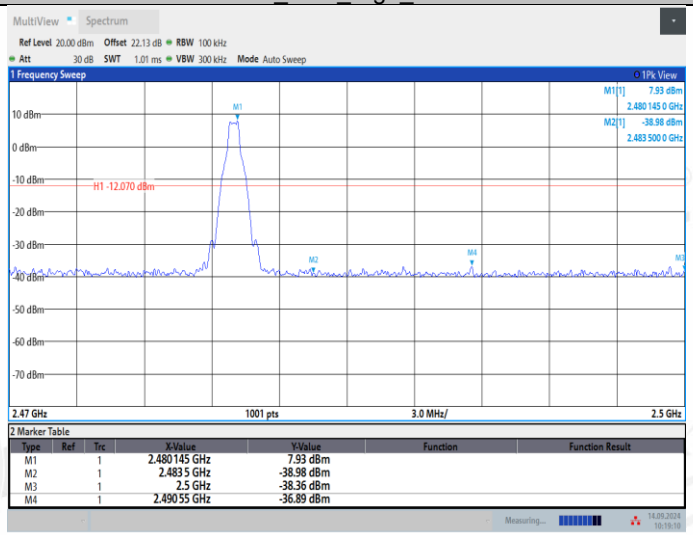
| Mode | Freq. (MHz) | Verdict |
|---|---|---|
| GFSK | Hopping off 2402 | Pass |
| | Hopping off 2480 | Pass |
| | Hopping on | Pass |
| π/4-DQPSK | Hopping off 2402 | Pass |
| | Hopping off 2480 | Pass |
| | Hopping on | Pass |
| 8DPSK | Hopping off 2402 | Pass |
| | Hopping off 2480 | Pass |
| | Hopping on | Pass |

## 5.5. Test graphs

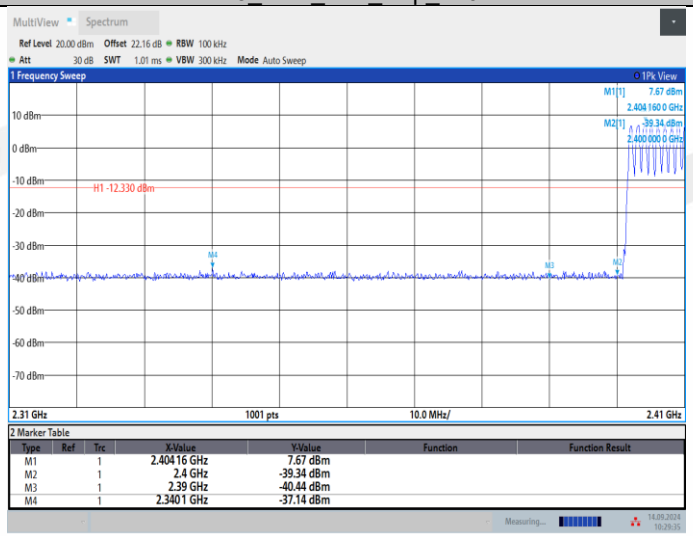
DH5_Ant1_Low_2402



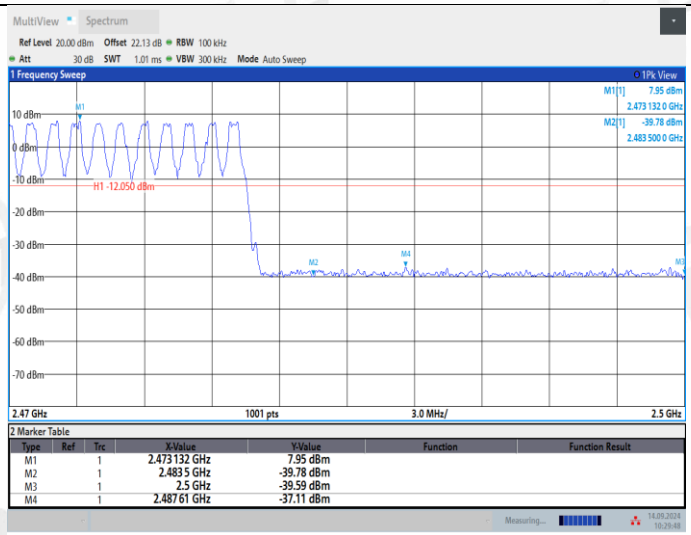

DH5_Ant1_High_2480



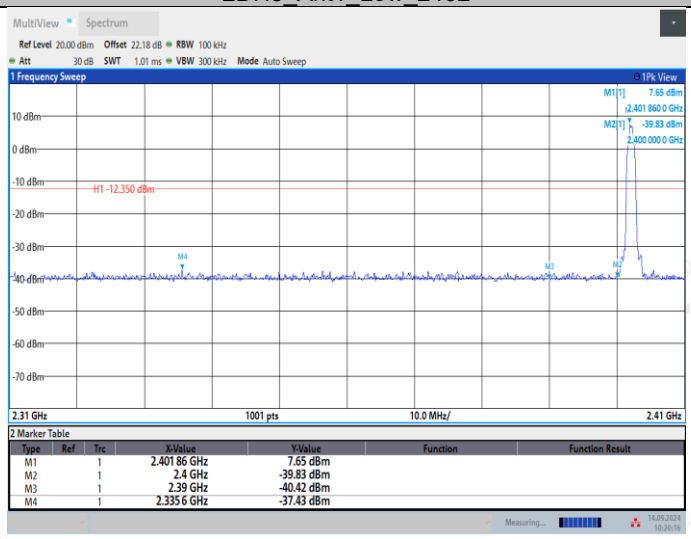

DH5_Ant1_Low_Hop_2402



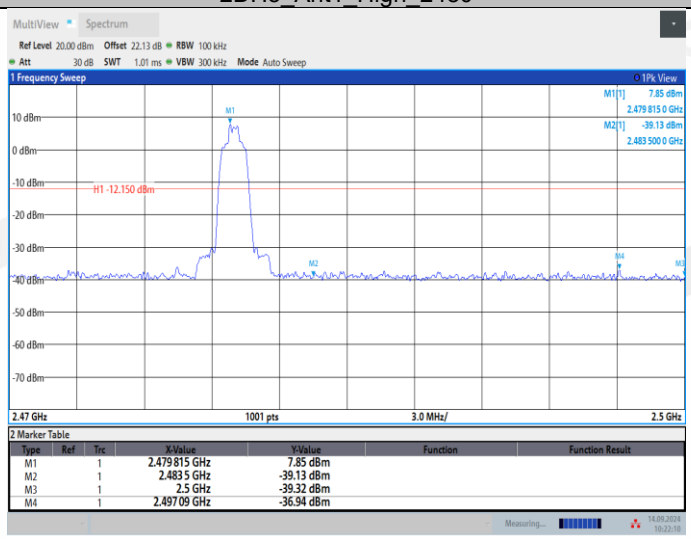

DH5_Ant1_High_Hop_2480



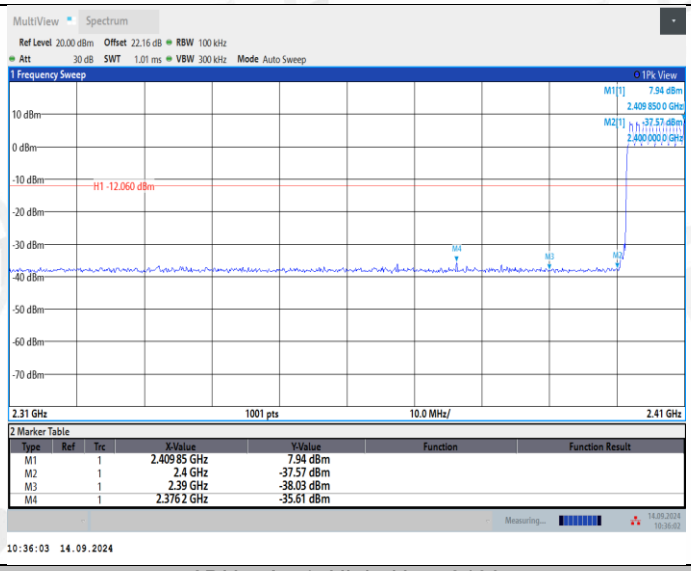

2DH5_Ant1_Low_2402



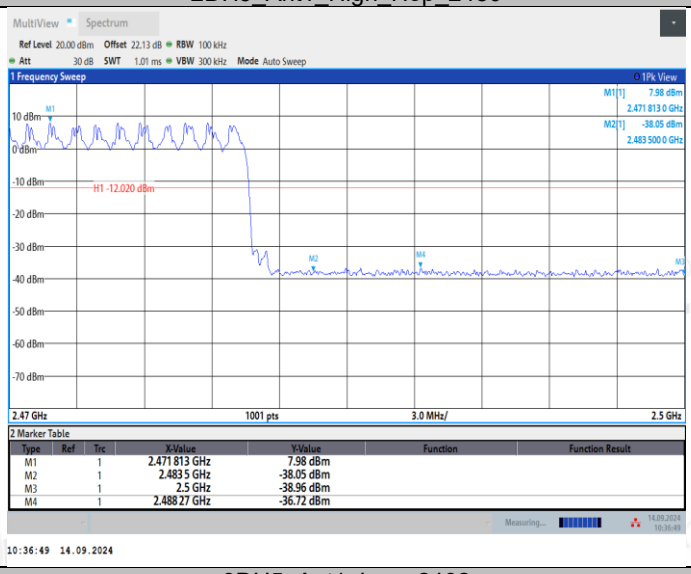

2DH5_Ant1_High_2480



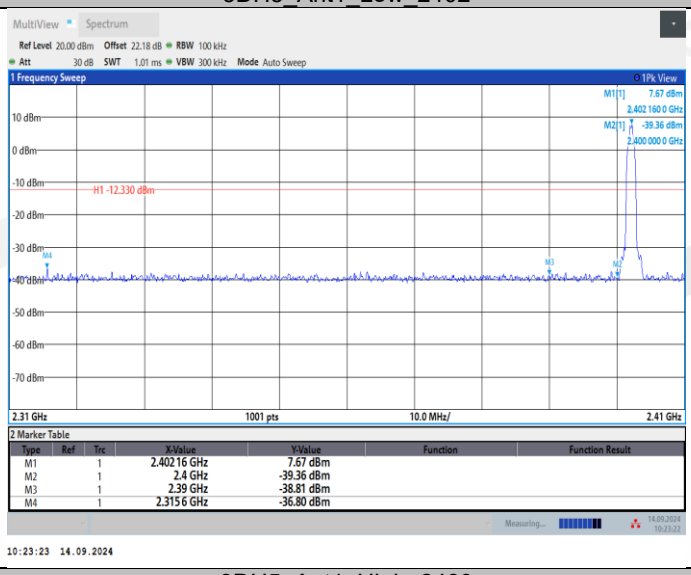

2DH5_Ant1_Low_Hop_2402



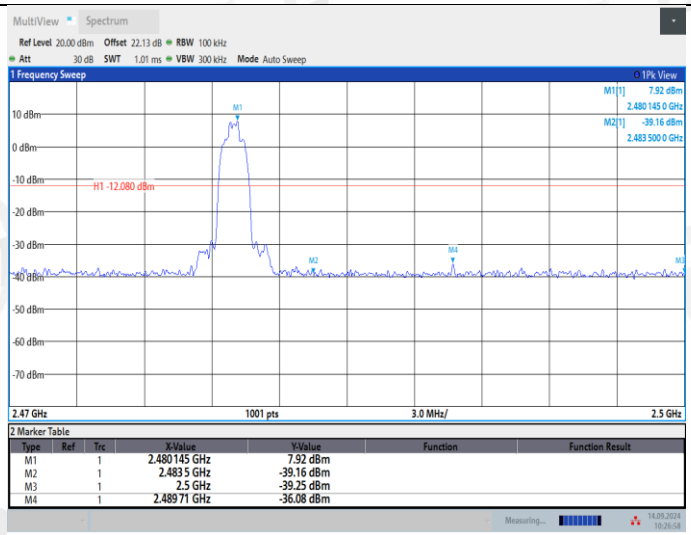

2DH5_Ant1_High_Hop_2480



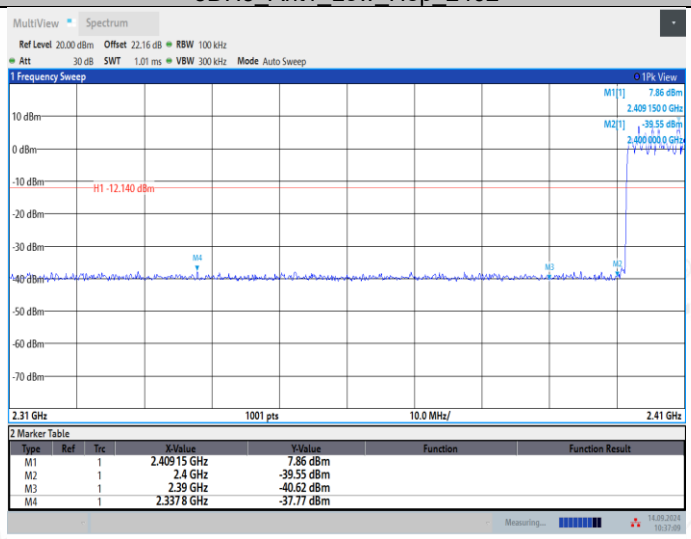

3DH5_Ant1_Low_2402



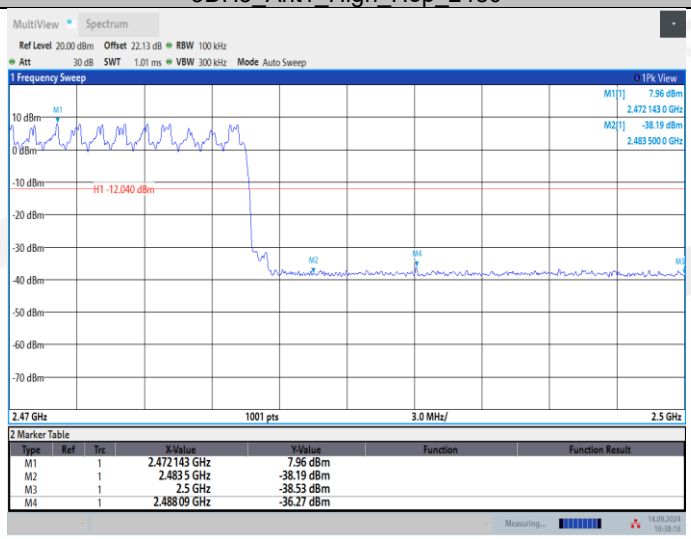

3DH5_Ant1_High_2480




3DH5_Ant1_Low_Hop_2402

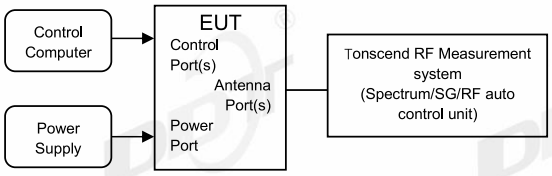



3DH5_Ant1_High_Hop_2480



# 6. RF Conducted Spurious Emissions

## 6.1. Block diagram of test setup




## 6.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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.

## 6.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.
(2) Establish a reference level by using the following procedure:

| | |
|---|---|
| Center frequency | Test frequency |
| RBW: | 100 kHz |
| VBW: | 300 kHz |
| Span | Wide enough to capture the peak level of the in-band emission |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode | Max hold |

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
(4) Set the spectrum analyzer as follows:

| | |
|---|---|
| RBW: | 100 kHz |
| VBW: | 300 kHz |
| Span | Encompass frequency range to be measured |
| Number of measurement points | ≥Span/RBW |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode | Max hold |

Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

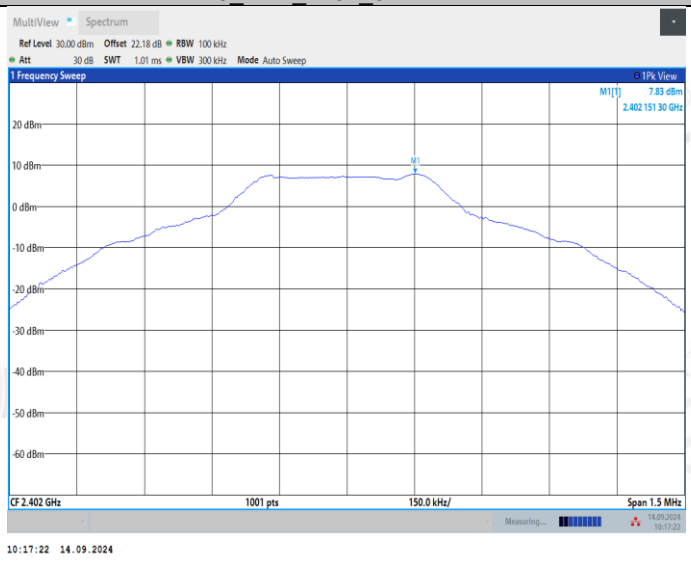
## 6.4. Test result

| Test Engineer: | Zoe | Test Site: | RF Measurement System 4# |
|---|---|---|---|
| Ambient Condition: | 23.6℃,48.2%RH | Test Date: | 2024.09.14-2024.09.14 |
| Test Power Supply: | Battery | Sample Number: | S24080825-002 |

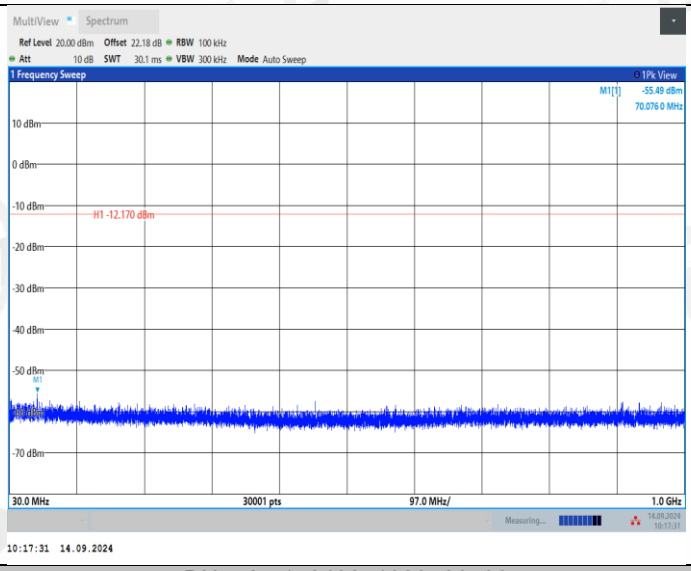
| Mode | Freq. (MHz) | Verdict |
|---|---|---|
| GFSK | Hopping off 2402 | Pass |
| | Hopping off 2441 | Pass |
| | Hopping off 2480 | Pass |
| π/4-DQPSK | Hopping off 2402 | Pass |
| | Hopping off 2441 | Pass |
| | Hopping off 2480 | Pass |
| 8DPSK | Hopping off 2402 | Pass |
| | Hopping off 2441 | Pass |
| | Hopping off 2480 | Pass |

## 6.5. Test graphs

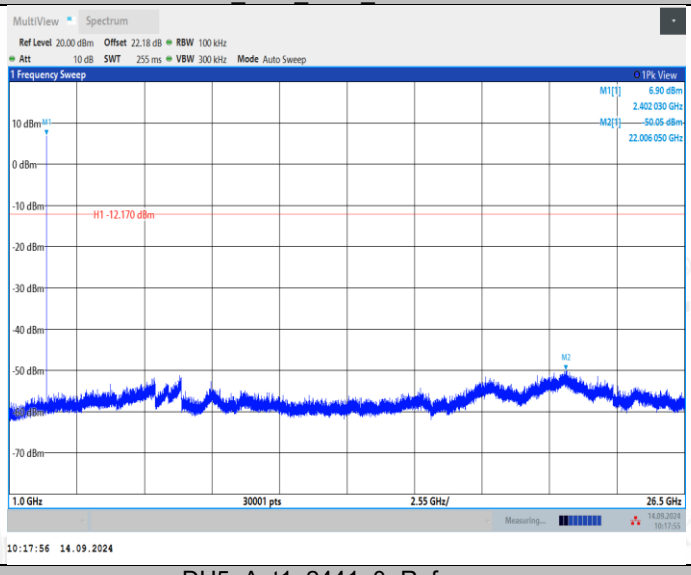
DH5_Ant1_2402_0~Reference



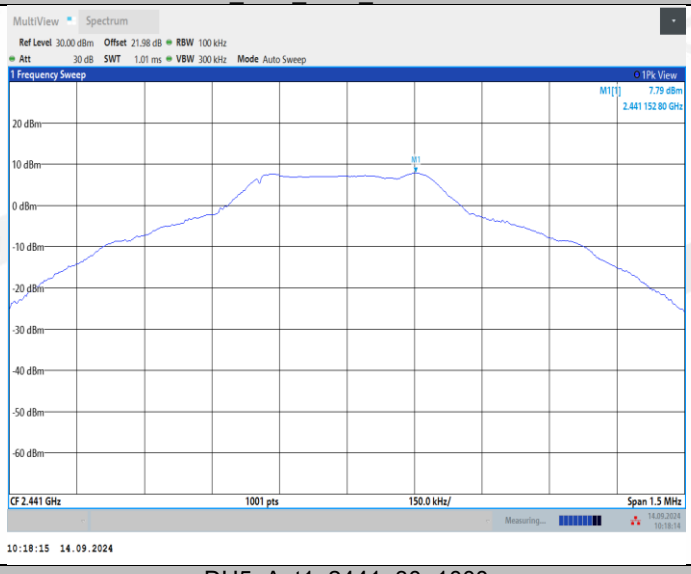

DH5_Ant1_2402_30~1000




DH5_Ant1_2402_1000~26500




DH5_Ant1_2441_0~Reference

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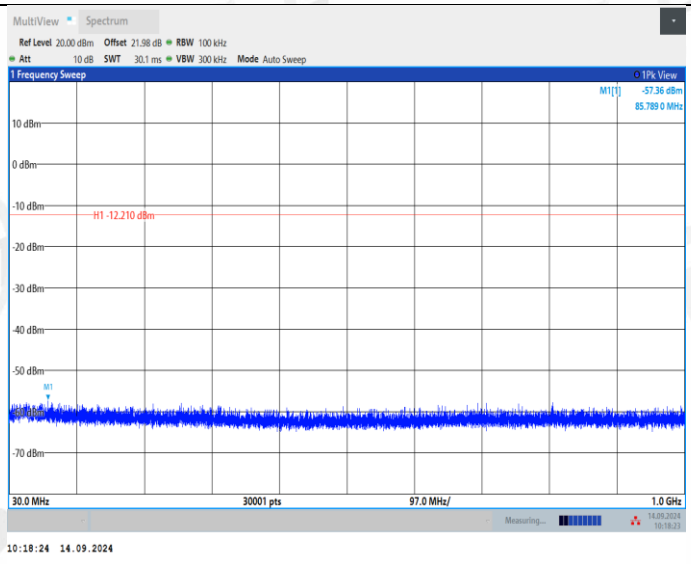
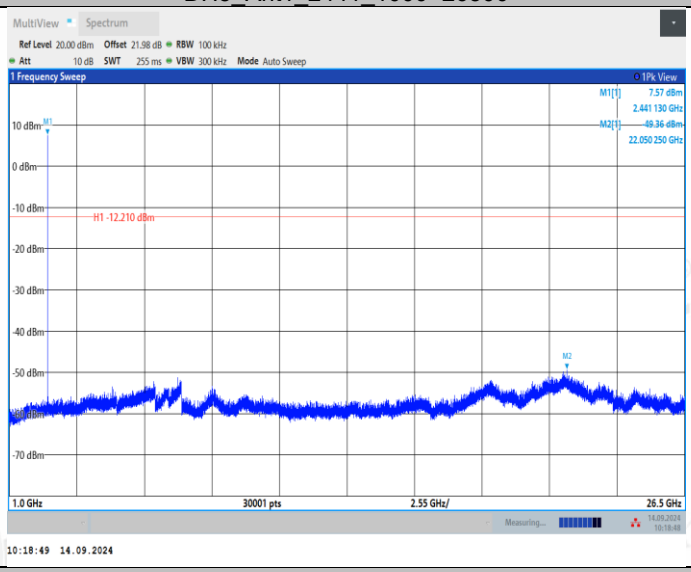
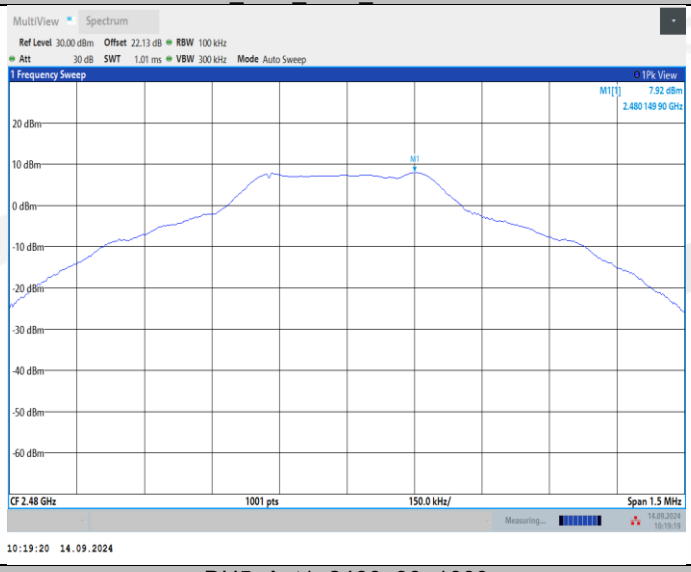


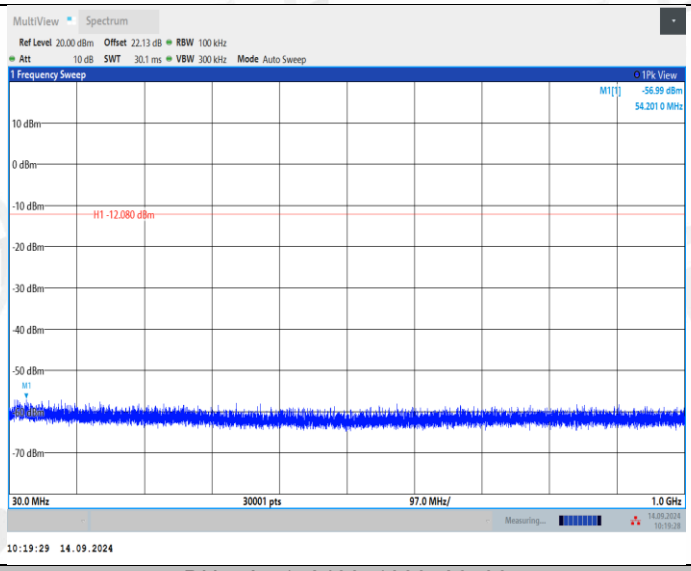

DH5_Ant1_2441_1000~26500



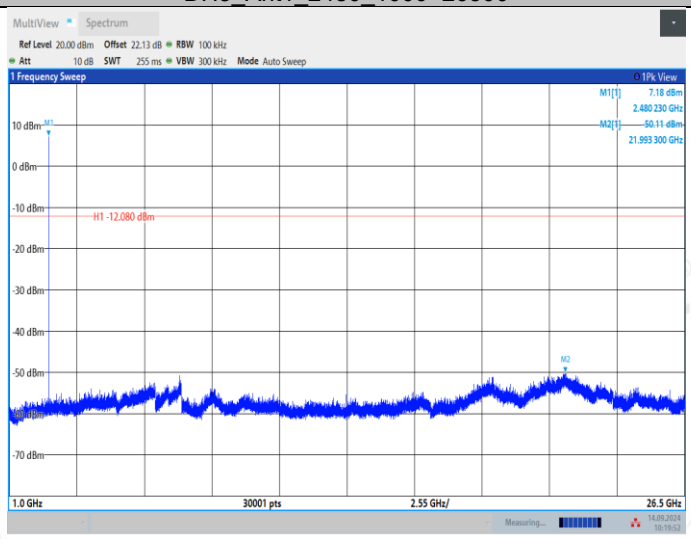

DH5_Ant1_2480_0~Reference



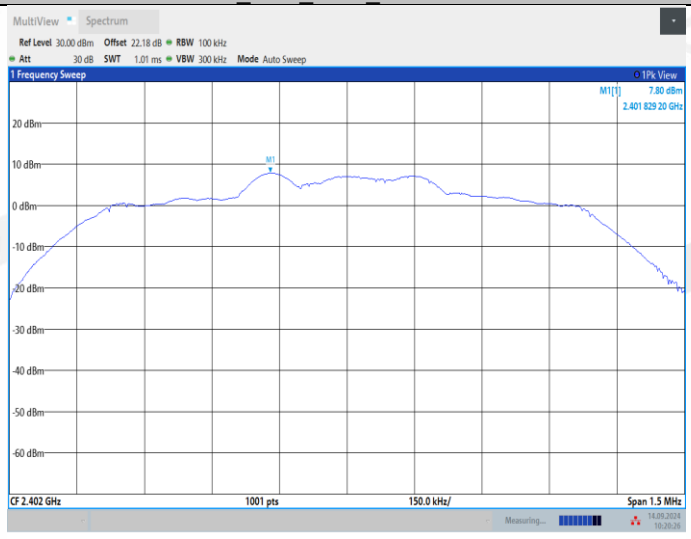

DH5_Ant1_2480_30~1000



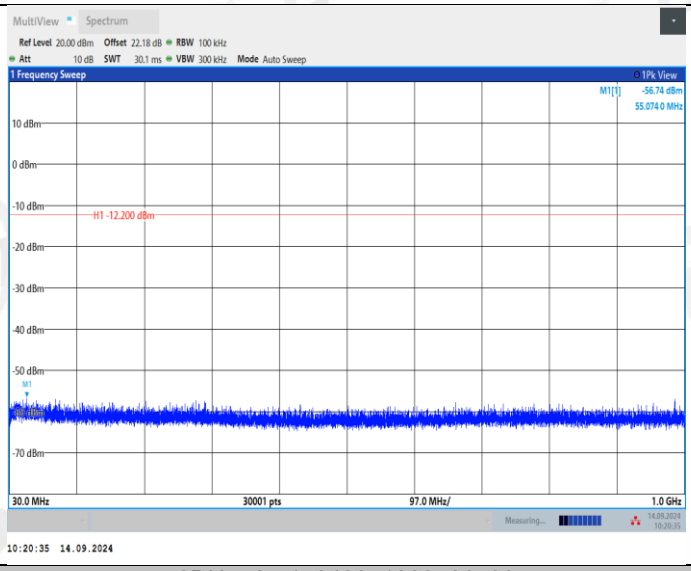

DH5_Ant1_2480_1000~26500



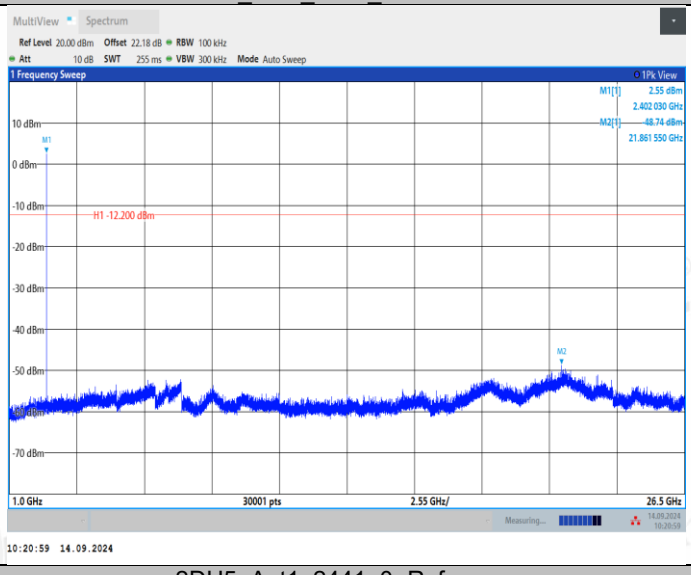

2DH5_Ant1_2402_0~Reference



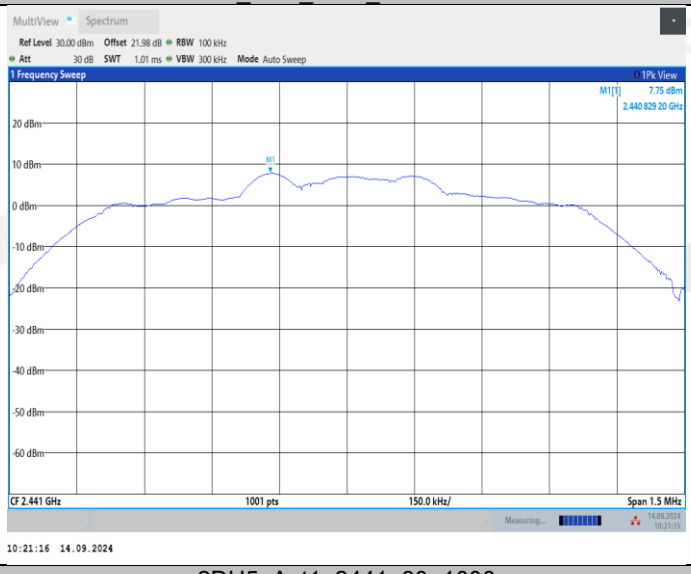

2DH5_Ant1_2402_30~1000



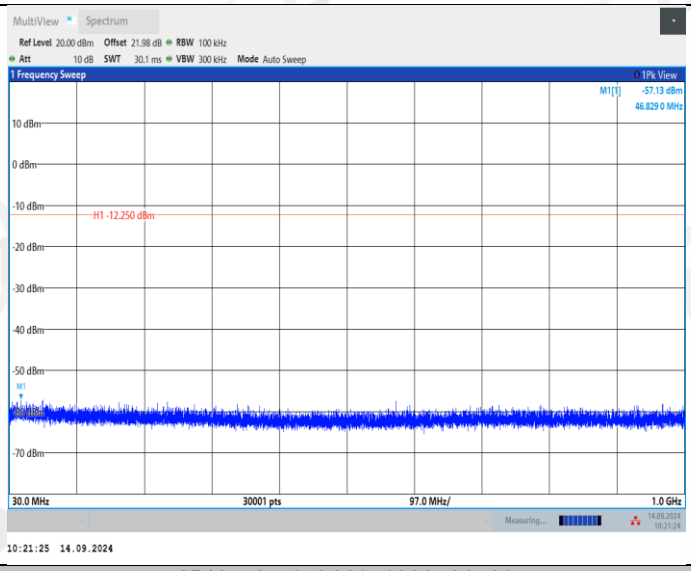

2DH5_Ant1_2402_1000~26500



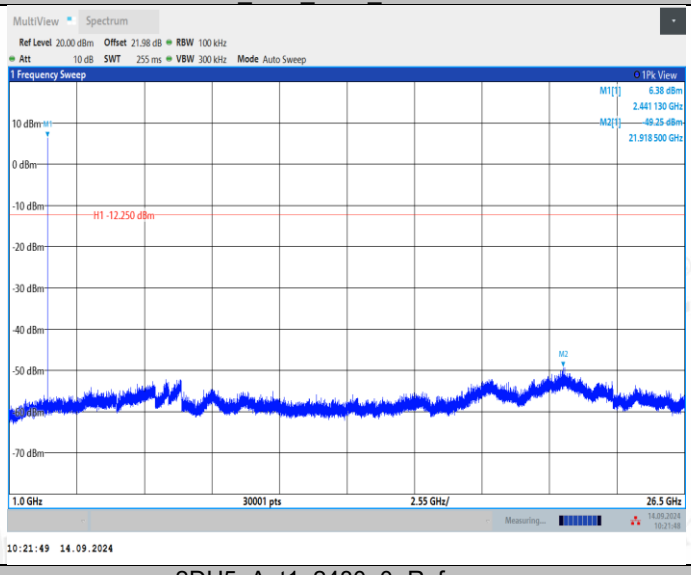

2DH5_Ant1_2441_0~Reference



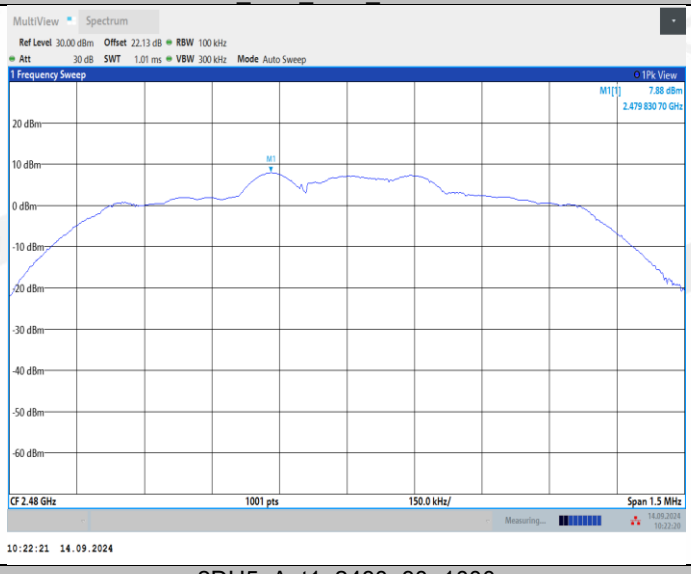

2DH5_Ant1_2441_30~1000



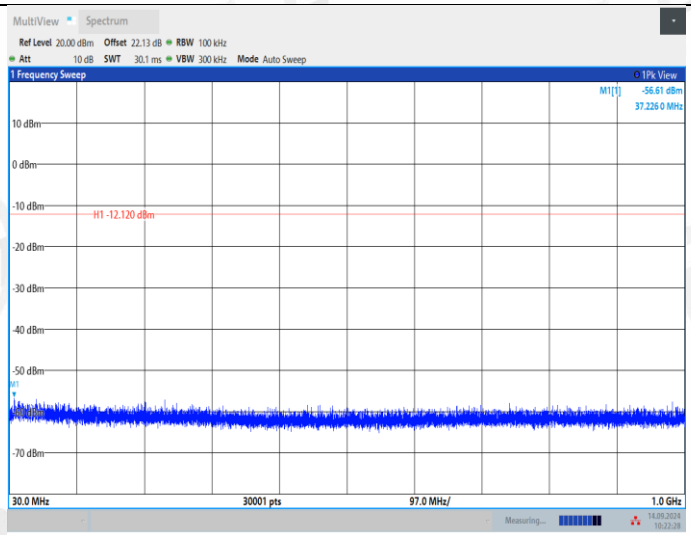

2DH5_Ant1_2441_1000~26500



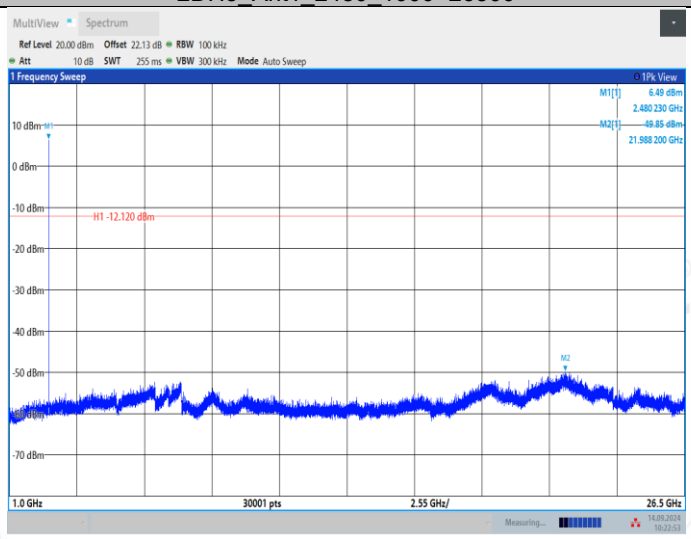

2DH5_Ant1_2480_0~Reference



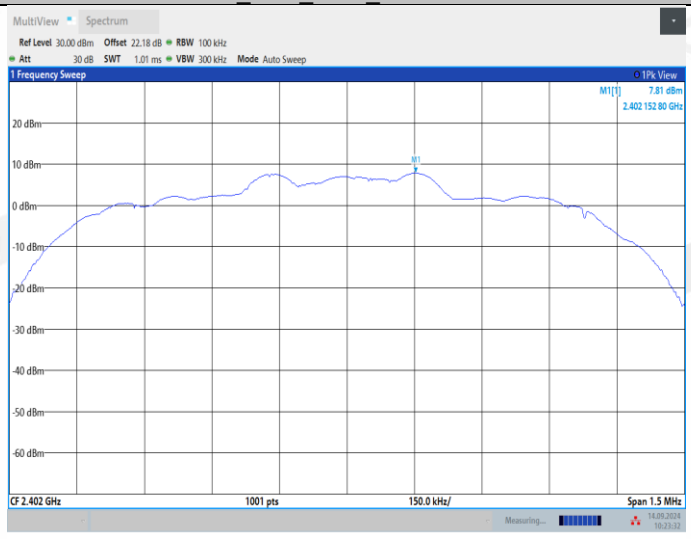

2DH5_Ant1_2480_30~1000



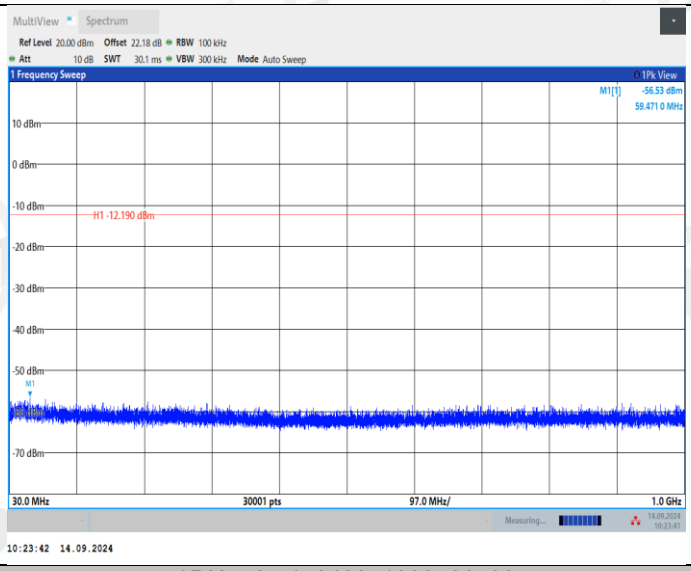

2DH5_Ant1_2480_1000~26500



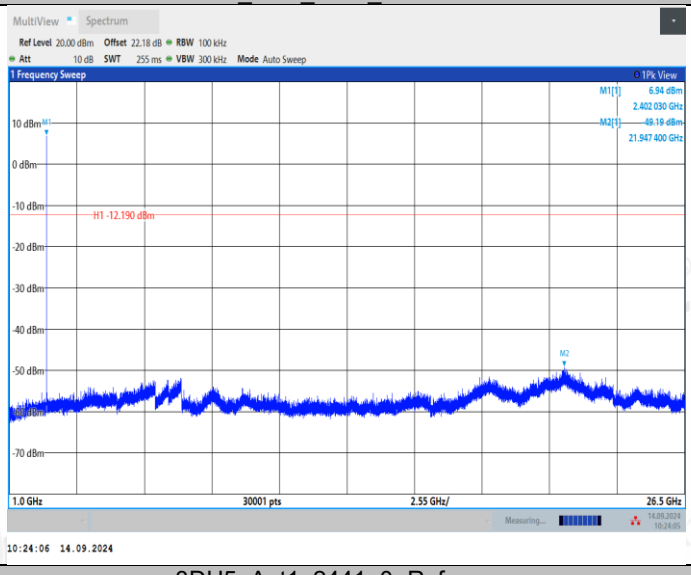

3DH5_Ant1_2402_0~Reference




3DH5_Ant1_2402_30~1000




3DH5_Ant1_2402_1000~26500

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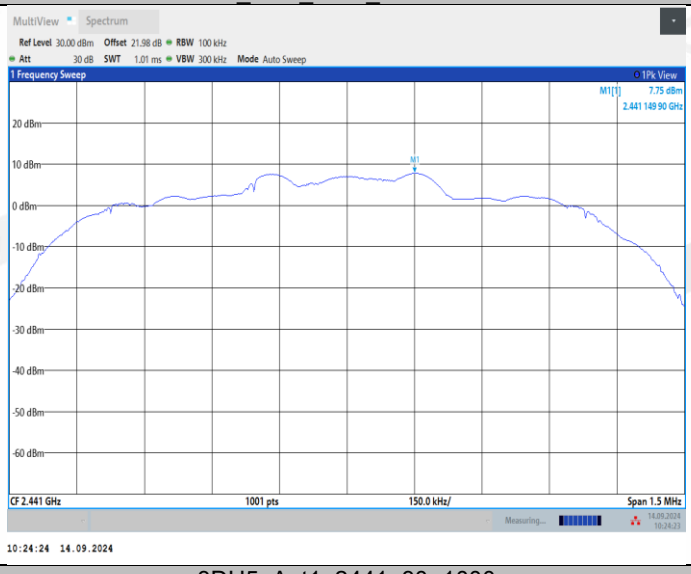
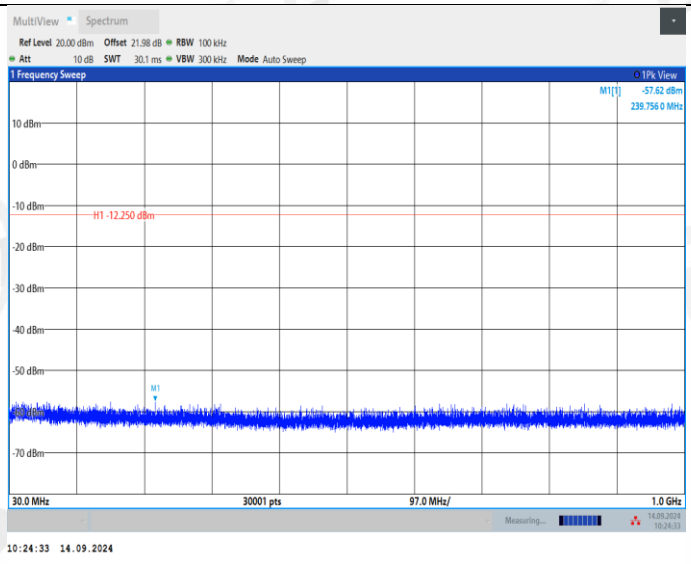
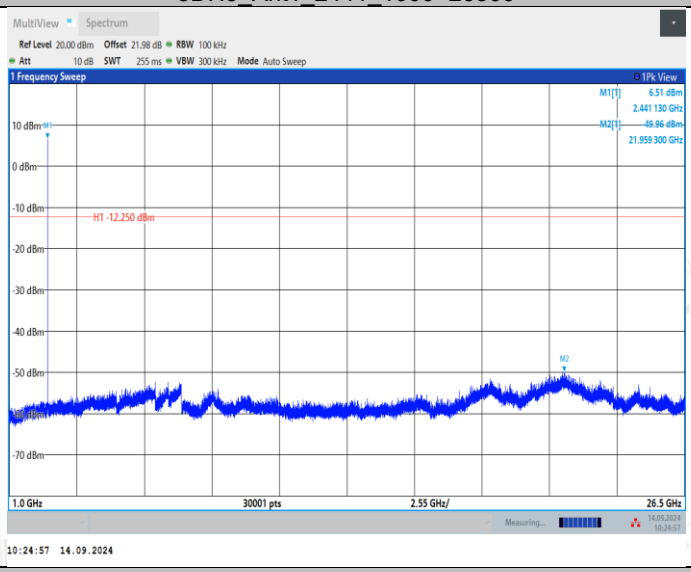


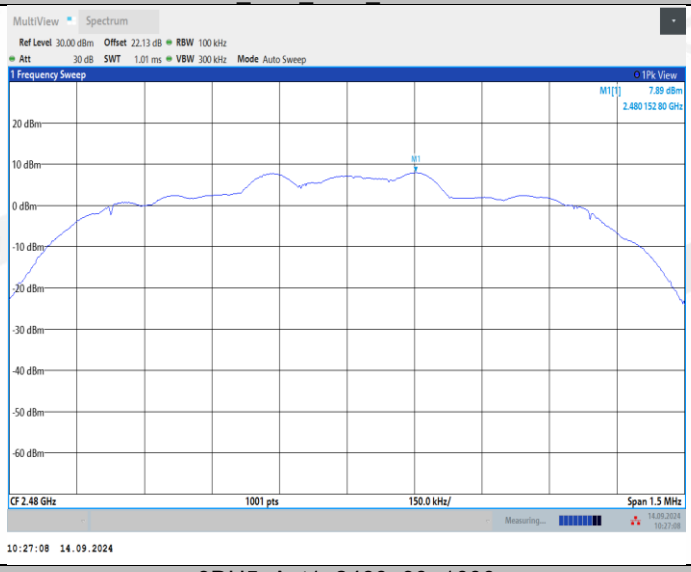

3DH5_Ant1_2441_30~1000



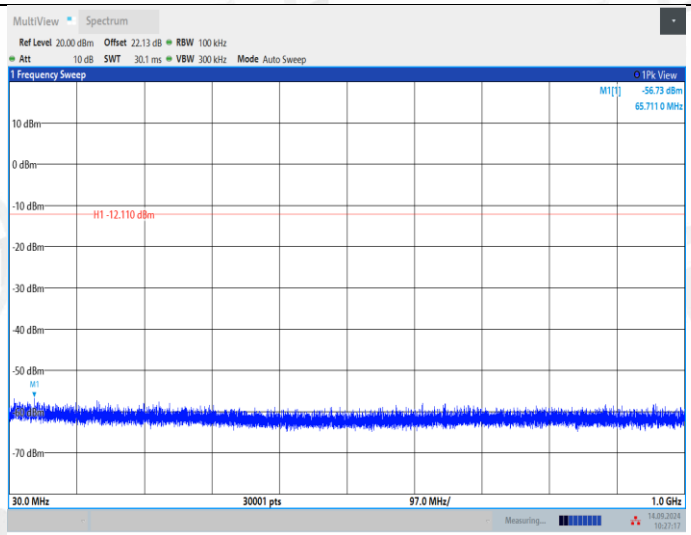

3DH5_Ant1_2441_1000~26500



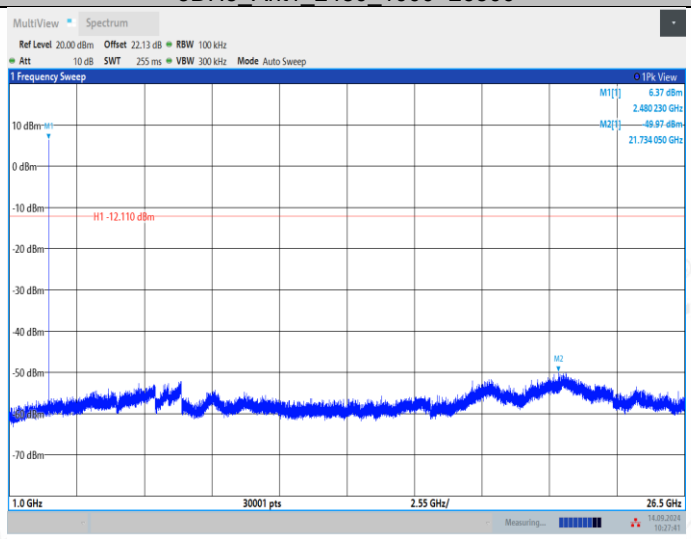

3DH5_Ant1_2480_0~Reference




3DH5_Ant1_2480_30~1000




3DH5_Ant1_2480_1000~26500



# 7. Antenna Requirements

## 7.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

## 7.2. Result

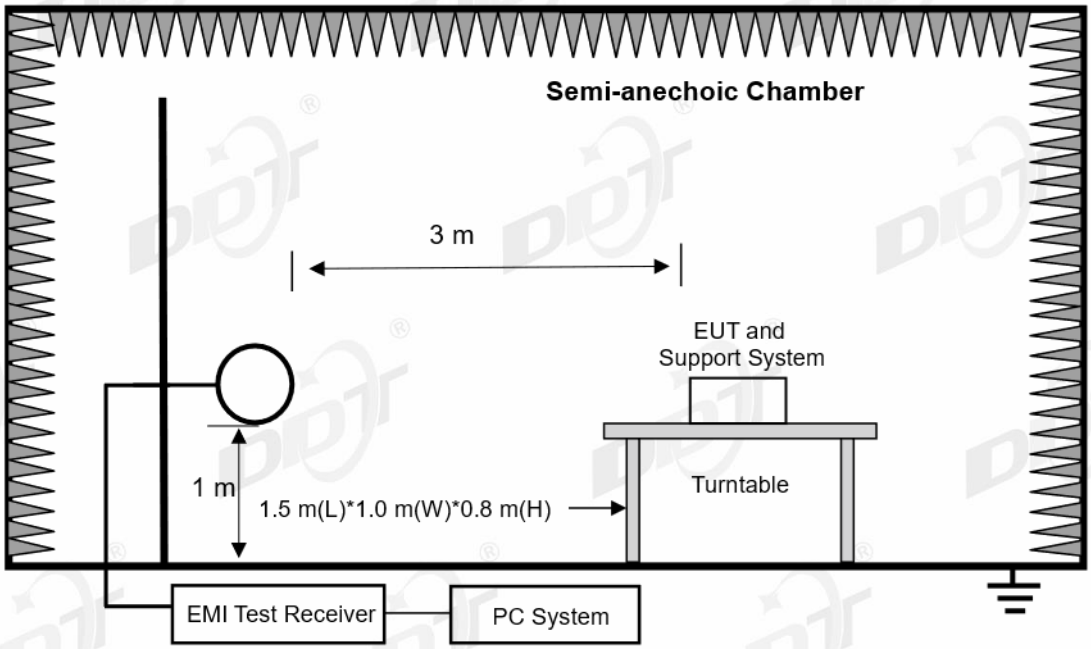
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

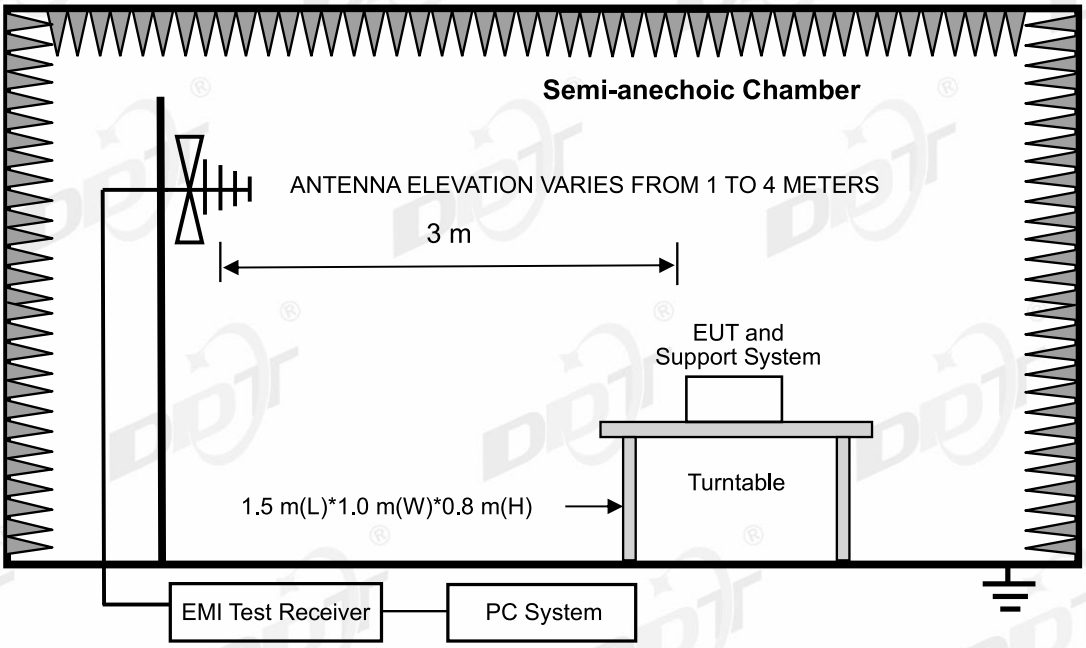
# 8. Radiated Emission

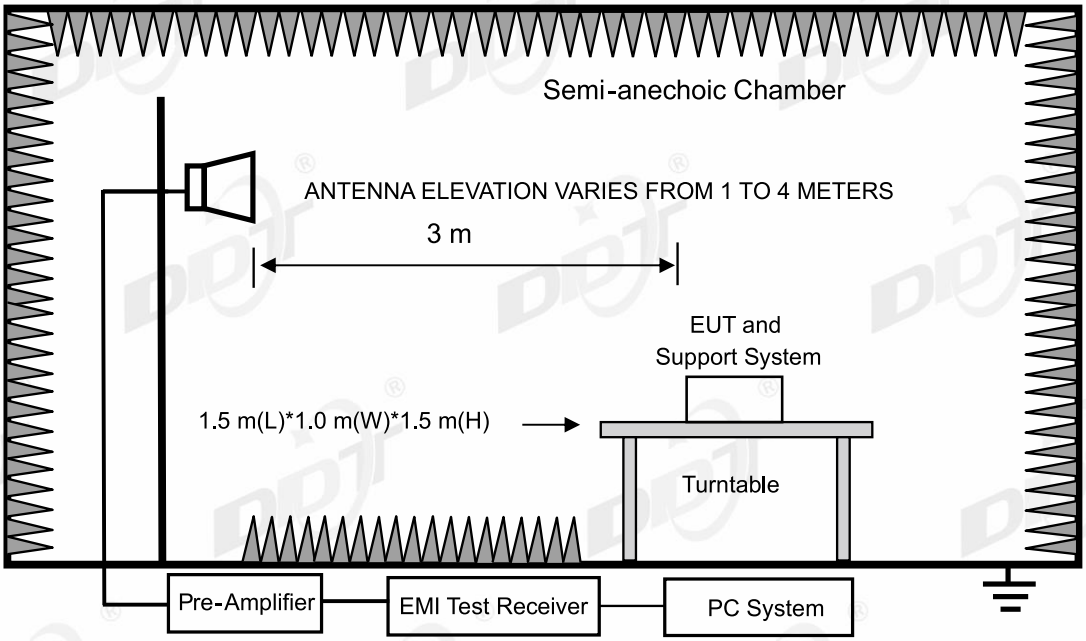
## 8.1. Test equipment

| Equipment | Manufacturer | Model No. | Serial No. | Cal Due To |
|---|---|---|---|---|
| High pass filter | Micro-Tronics | HPM50102 | DDT-ZC00561 | 2025/04/22 |
| RF cable | Yuhu Technology | JCTB810-NJ-NJ-9M | DDT-ZC02538 | 2025/03/31 |
| Pre-amplifier | COM-POWER | PAM-118A | DDT-ZC01293 | 2025/08/25 |
| RF cable | Zhongke Junchuang | JCT26S-NJ-NJ-1.5M | DDT-ZC02762 | 2025/03/31 |
| RF cable | Yuhu Technology | ZT26S-SMAJ-SMAJ-1M | DDT-ZC02037 | 2025/03/31 |
| RF Cable | N/A | W24.02 HL-562 | DDT-ZC04022 | 2025/03/31 |
| Micro-Tronics filters | REBES | BRM50702 | DDT-ZC03242 | / |
| RF Cable | N/A | W13.02 AP1-X2 | DDT-ZC04023 | 2025/03/31 |
| Micro-Tronics filters | REBES | BRM50716 | DDT-ZC03240 | / |
| Trilog Broadband Antenna | Schwarzbeck | VULB 9163 | DDT-ZC02050 | 2025/07/11 |
| Hochgewinn-Hornantenne | SCHWARZBECK | BBHA 9120 D | DDT-ZC02129 | 2025/09/18 |
| EMI TEST RECEIVER | R&S | ESU26 | DDT-ZC01909 | 2025/03/31 |
| Pre-amplifier | COM-POWER | PAM-840A | DDT-ZC01693 | 2025/03/31 |
| High pass filter | Micro-Tronics | HPM50108 | DDT-ZC00560 | 2025/04/22 |
| PSA Series Spectrum Analyzer | Agilent | E4447A | DDT-ZC00517 | 2025/03/31 |
| High Pass filter | Xi'an Xingbo | XBLBQ-GTA67 | DDT-ZC02179 | 2025/04/22 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | DDT-ZC00506 | 2025/04/26 |
| Active Loop Antenna | Schwarzbeck | FMZB1519 | DDT-ZC00524 | 2025/09/11 |

## 8.2. Block diagram of test setup






## 8.3. Limits

(1) FCC 15.205 Restricted frequency band

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| [1]0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.1772&4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.2072&4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | ([2]) |
| 13.36-13.41 | | | |

1Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090-0.110 | 12.51975-12.52025 | 240-285 | 3.5-4.4 |
| 0.495-0.505 | 12.57675-12.57725 | 322-335.4 | 4.5-5.15 |
| 2.1735-2.1905 | 13.36-13.41 | 399.9-410 | 5.35-5.46 |
| 3.020-3.026 | 16.42-16.423 | 608-614 | 7.25-7.75 |
| 4.125-4.128 | 16.69475-16.69525 | 960-1427 | 8.025-8.5 |
| 4.1772&4.17775 | 16.80425-16.80475 | 1435-1626.5 | 9.0-9.2 |
| 4.2072&4.20775 | 25.5-25.67 | 1645.5-1646.5 | 9.3-9.5 |
| 5.677-5.683 | 37.5-38.25 | 1660-1710 | 10.6-12.7 |
| 6.215-6.218 | 73-74.6 | 1718.8-1722.2 | 13.25-13.4 |
| 6.26775-6.26825 | 74.8-75.2 | 2200-2300 | 14.47-14.5 |
| 6.31175-6.31225 | 108-138 | 2310-2390 | 15.35-16.2 |
| 8.291-8.294 | 149.9-150.05 | 2483.5-2500 | 17.7-21.4 |
| 8.362-8.366 | 156.52475-156.52525 | 2655-2900 | 22.01-23.12 |
| 8.37625-8.38675 | 156.7-156.9 | 3260-3267 | 23.6-24.0 |
| 8.41425-8.41475 | 162.0125-167.17 | 3332-3339 | 31.2-31.8 |
| 12.29-12.293 | 167.72-173.2 | 3345.8-3358 | 36.43-36.5 |
| | | | Above 38.6 |

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|---|---|---|---|
| | | mV/m | dB(mV)/m |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | 67.6-20log(F) |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | 87.6-20log(F) |
| 1.705 ~ 30.0 | 30 | 30 | 29.54 |
| 30~88 | 3 | 100 | 40.0 |
| 88~216 | 3 | 150 | 43.5 |
| 216~960 | 3 | 200 | 46.0 |
| 960~1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(mV)/m (Peak)<br>54.0 dB(mV)/m (Average) | |

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

## 8.4. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | Description | other |
|---|---|---|---|---|
| Laptop | HP | SL10H72009 | HP laptops | AC Adapter Mode: TPN-CA17, HP Part No.: L25299-002, Input: 100-240V, 50/60Hz, Output: DC 19.5V, 3.33A, 65W |

## 8.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

(2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

| Test frequency range | Test antenna used | Test antenna distance |
|---|---|---|
| 9 kHz - 30 MHz | Active Loop antenna | 3 m |
| 30 MHz - 1 GHz | Trilog Broadband Antenna | 3 m |
| 1 GHz - 18 GHz | Double Ridged Horn Antenna(1 GHz-18 GHz) | 3 m |
| 18 GHz - 40 GHz | Horn Antenna(18 GHz-40 GHz) | 1 m |

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz,110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

| Frequency band | RBW |
|---|---|
| 9 kHz - 150 kHz | 200 Hz |
| 150 kHz - 30 MHz | 9 kHz |
| 30 MHz - 1 GHz | 120 kHz |

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

(9) According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

(10) For 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is reported)

(11) For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in worst mode 8DPSK TX 2441MHz.

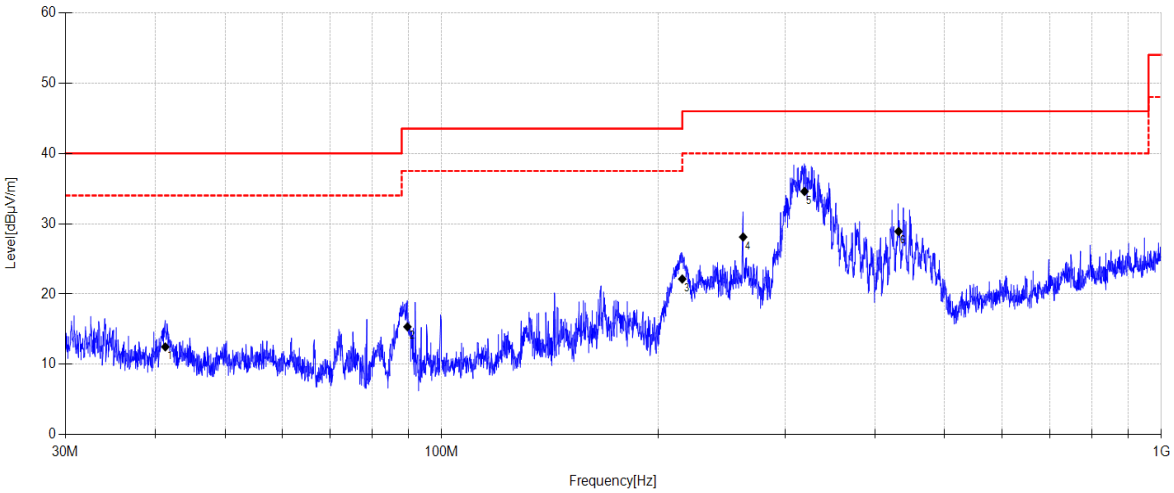
## 8.6. Test result

**PASS. (See below detailed test result)**

## 8.7. Test data

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | TX Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC BELOW1G\20240918-102532_H | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

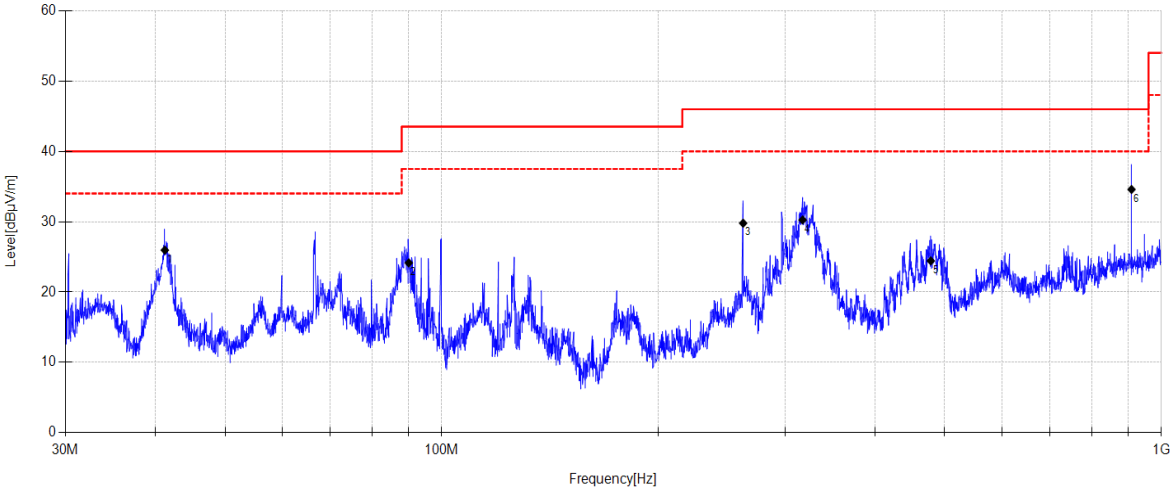



| Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable Loss [dB]** | **Result [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 41.303 | 27.15 | 12.61 | 3.83 | 12.49 | 40.00 | 27.51 | QP | Horizontal |
| 2 | 89.633 | 32.87 | 9.43 | 4.15 | 15.35 | 43.50 | 28.15 | QP | Horizontal |
| 3 | 215.939 | 37.78 | 10.76 | 4.83 | 22.14 | 43.50 | 21.36 | QP | Horizontal |
| 4 | 262.413 | 42.78 | 11.60 | 5.05 | 28.11 | 46.00 | 17.89 | QP | Horizontal |
| 5 | 319.337 | 46.76 | 13.93 | 5.30 | 34.58 | 46.00 | 11.42 | QP | Horizontal |
| 6 | 431.407 | 38.92 | 15.71 | 5.74 | 28.90 | 46.00 | 17.10 | QP | Horizontal |

Note:
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | TX Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC BELOW1G\20240918-102553_V | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |



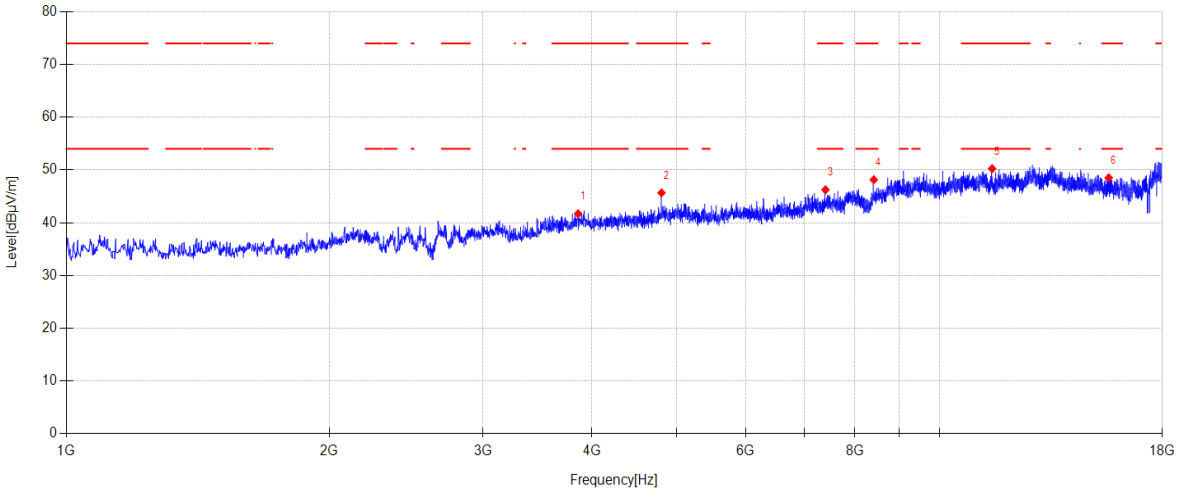

| Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable Loss [dB]** | **Result [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 41.245 | 40.66 | 12.57 | 3.83 | 25.96 | 40.00 | 14.04 | QP | Vertical |
| 2 | 90.011 | 41.6 | 9.50 | 4.15 | 24.15 | 43.50 | 19.35 | QP | Vertical |
| 3 | 262.413 | 44.46 | 11.60 | 5.05 | 29.79 | 46.00 | 16.21 | QP | Vertical |
| 4 | 317.329 | 42.64 | 13.73 | 5.29 | 30.25 | 46.00 | 15.75 | QP | Vertical |
| 5 | 478.245 | 33.57 | 16.43 | 5.92 | 24.43 | 46.00 | 21.57 | QP | Vertical |
| 6 | 909.046 | 36.39 | 21.50 | 7.22 | 34.59 | 46.00 | 11.41 | QP | Vertical |

Note:
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2402MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\1 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:59 | | |

**Test Graph**



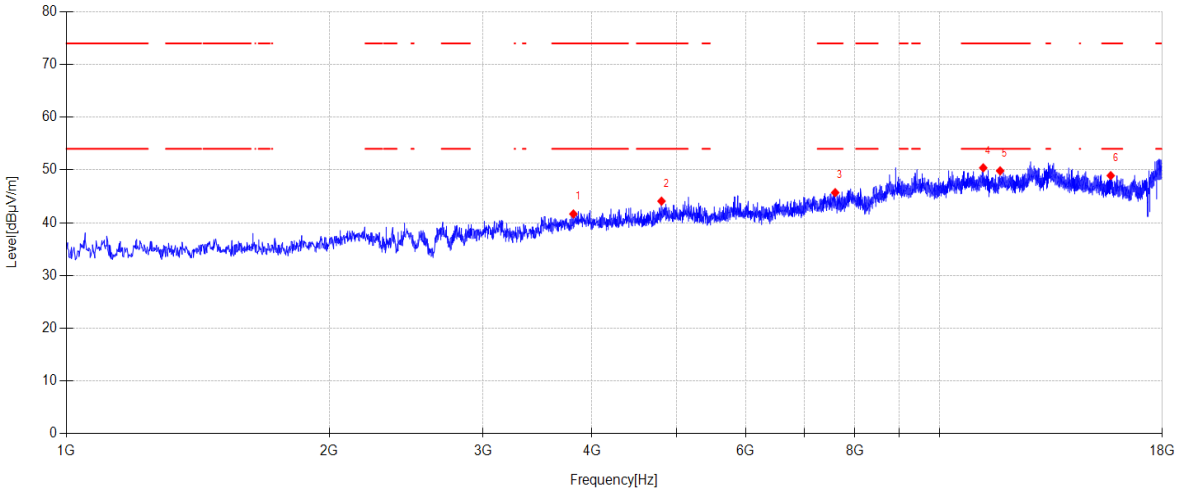

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 3856.000 | 45.34 | 30.94 | 5.07 | -39.65 | 41.70 | 74.00 | 32.30 | PK | Horizontal |
| 2 | 4804.600 | 47.13 | 32.62 | 5.53 | -39.62 | 45.66 | 74.00 | 28.34 | PK | Horizontal |
| 3 | 7403.900 | 43.54 | 36.69 | 6.65 | -40.64 | 46.24 | 74.00 | 27.76 | PK | Horizontal |
| 4 | 8410.300 | 43.11 | 37.50 | 7.11 | -39.57 | 48.15 | 74.00 | 25.85 | PK | Horizontal |
| 5 | 11490.700 | 42.08 | 39.21 | 8.44 | -39.49 | 50.24 | 74.00 | 23.76 | PK | Horizontal |
| 6 | 15625.100 | 39.45 | 38.57 | 9.90 | -39.40 | 48.52 | 74.00 | 25.48 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2402MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\2 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:59 | | |

**Test Graph**




**Data List**

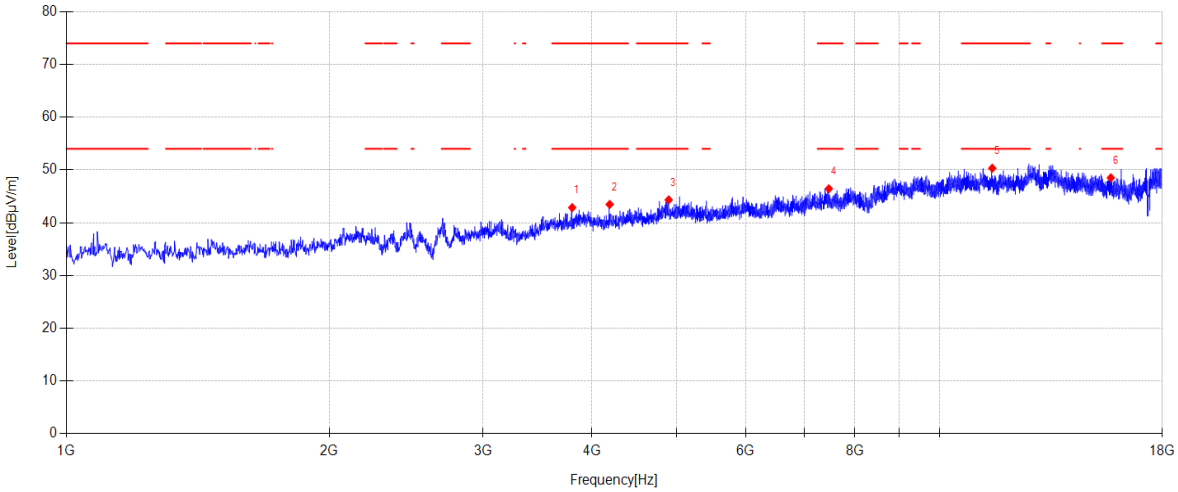
| NO. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3808.400 | 45.48 | 30.73 | 5.08 | -39.63 | 41.66 | 74.00 | 32.34 | PK | Vertical |
| 2 | 4804.600 | 45.56 | 32.62 | 5.53 | -39.62 | 44.09 | 74.00 | 29.91 | PK | Vertical |
| 3 | 7596.000 | 42.92 | 36.49 | 6.76 | -40.46 | 45.71 | 74.00 | 28.29 | PK | Vertical |
| 4 | 11223.800 | 42.15 | 39.20 | 8.27 | -39.22 | 50.40 | 74.00 | 23.60 | PK | Vertical |
| 5 | 11735.500 | 42.02 | 38.96 | 8.59 | -39.74 | 49.83 | 74.00 | 24.17 | PK | Vertical |
| 6 | 15710.100 | 39.89 | 38.48 | 9.96 | -39.40 | 48.93 | 74.00 | 25.07 | PK | Vertical |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2441MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\3 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**




**Data List**

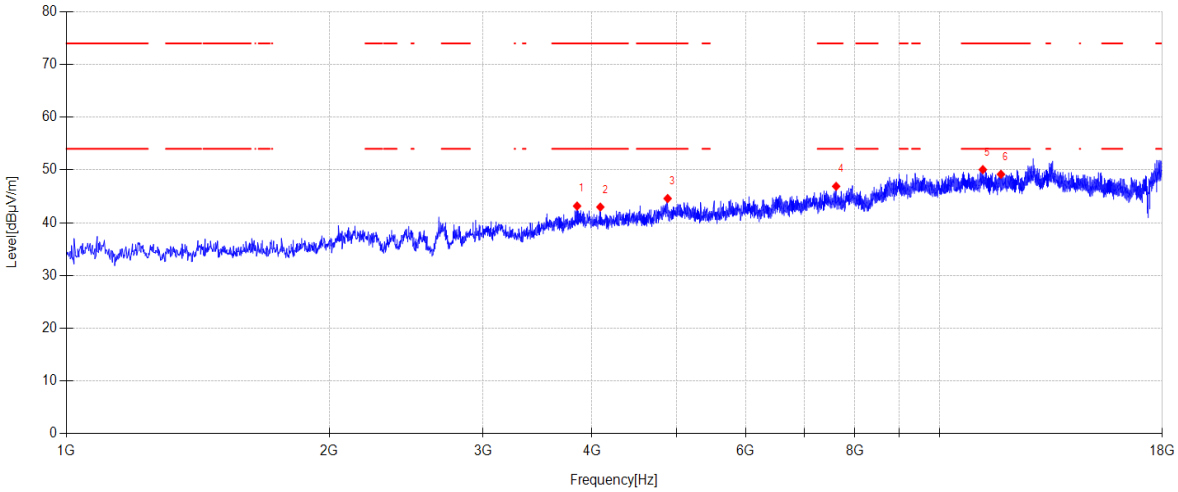
| NO. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3796.500 | 46.72 | 30.69 | 5.08 | -39.63 | 42.86 | 74.00 | 31.14 | PK | Horizontal |
| 2 | 4190.900 | 46.77 | 31.20 | 5.16 | -39.66 | 43.47 | 74.00 | 30.53 | PK | Horizontal |
| 3 | 4896.400 | 45.29 | 33.06 | 5.59 | -39.61 | 44.33 | 74.00 | 29.67 | PK | Horizontal |
| 4 | 7470.200 | 43.77 | 36.56 | 6.69 | -40.58 | 46.44 | 74.00 | 27.56 | PK | Horizontal |
| 5 | 11494.100 | 42.17 | 39.21 | 8.44 | -39.49 | 50.33 | 74.00 | 23.67 | PK | Horizontal |
| 6 | 15713.500 | 39.48 | 38.47 | 9.96 | -39.40 | 48.51 | 74.00 | 25.49 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2441MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\4 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**




**Data List**

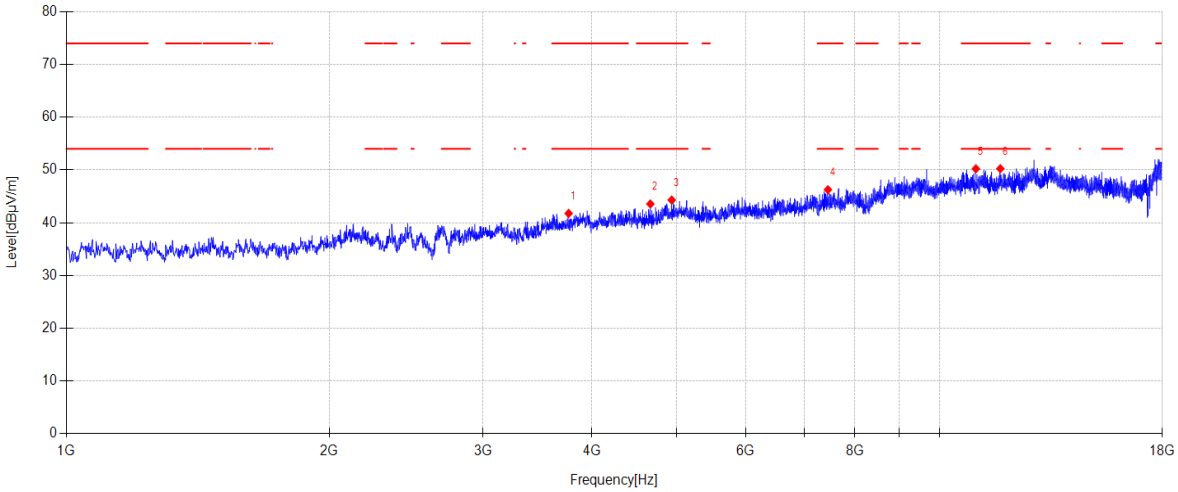
| NO. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3845.800 | 46.84 | 30.88 | 5.08 | -39.64 | 43.16 | 74.00 | 30.84 | PK | Vertical |
| 2 | 4088.900 | 46.46 | 31.08 | 5.10 | -39.67 | 42.97 | 74.00 | 31.03 | PK | Vertical |
| 3 | 4882.800 | 45.34 | 33.28 | 5.58 | -39.61 | 44.59 | 74.00 | 29.41 | PK | Vertical |
| 4 | 7614.700 | 44.05 | 36.53 | 6.77 | -40.45 | 46.90 | 74.00 | 27.10 | PK | Vertical |
| 5 | 11211.900 | 41.82 | 39.20 | 8.26 | -39.21 | 50.07 | 74.00 | 23.93 | PK | Vertical |
| 6 | 11761.000 | 41.39 | 38.94 | 8.61 | -39.76 | 49.18 | 74.00 | 24.82 | PK | Vertical |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2480MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\5 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



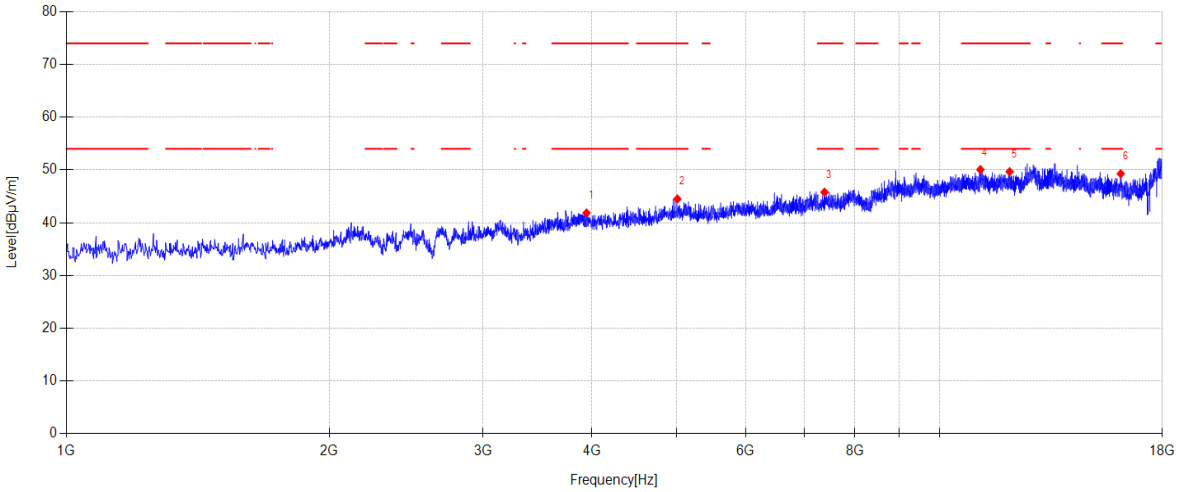

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 3760.800 | 45.76 | 30.54 | 5.09 | -39.62 | 41.77 | 74.00 | 32.23 | PK | Horizontal |
| 2 | 4665.200 | 45.68 | 32.06 | 5.45 | -39.63 | 43.56 | 74.00 | 30.44 | PK | Horizontal |
| 3 | 4935.500 | 45.23 | 33.07 | 5.61 | -39.61 | 44.30 | 74.00 | 29.70 | PK | Horizontal |
| 4 | 7451.500 | 43.57 | 36.60 | 6.68 | -40.59 | 46.26 | 74.00 | 27.74 | PK | Horizontal |
| 5 | 11007.900 | 41.80 | 39.30 | 8.13 | -39.01 | 50.22 | 74.00 | 23.78 | PK | Horizontal |
| 6 | 11740.600 | 42.42 | 38.96 | 8.60 | -39.74 | 50.24 | 74.00 | 23.76 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2480MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\6 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**




| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 3942.700 | 45.35 | 31.11 | 5.06 | -39.67 | 41.85 | 74.00 | 32.15 | PK | Vertical |
| 2 | 5010.300 | 45.23 | 33.22 | 5.66 | -39.60 | 44.51 | 74.00 | 29.49 | PK | Vertical |
| 3 | 7385.200 | 43.07 | 36.73 | 6.64 | -40.65 | 45.79 | 74.00 | 28.21 | PK | Vertical |
| 4 | 11138.800 | 41.73 | 39.26 | 8.22 | -39.14 | 50.07 | 74.00 | 23.93 | PK | Vertical |
| 5 | 12033.000 | 41.66 | 39.23 | 8.78 | -39.99 | 49.68 | 74.00 | 24.32 | PK | Vertical |
| 6 | 16130.000 | 40.72 | 37.87 | 10.18 | -39.49 | 49.28 | 74.00 | 24.72 | PK | Vertical |

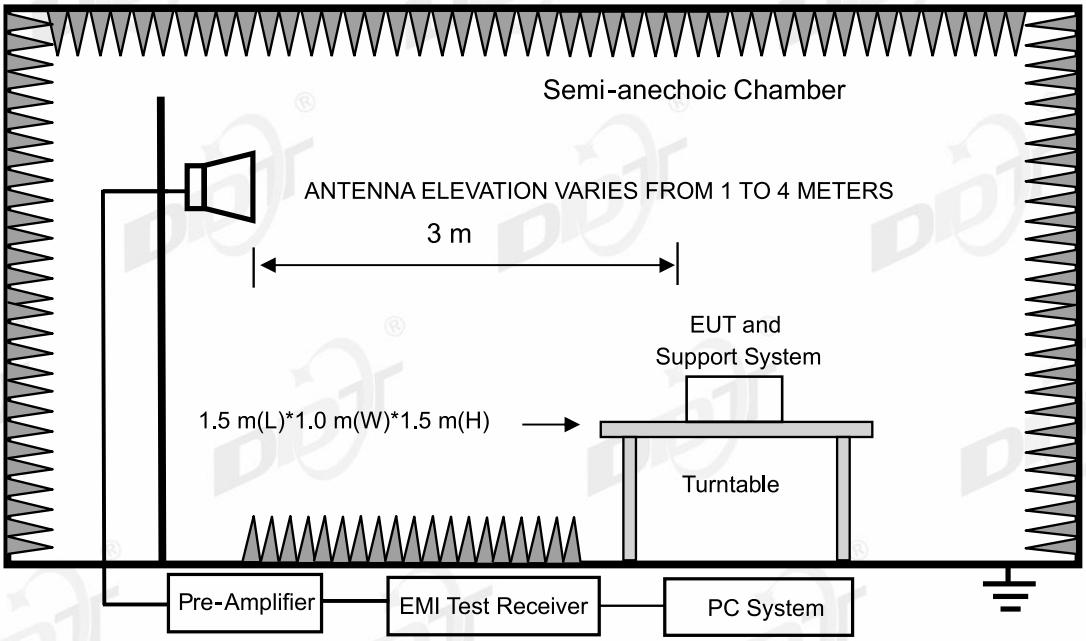
Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# 9. Band Edge Compliance

## 9.1. Test equipment

| Equipment | Manufacturer | Model No. | Serial No. | Cal Due To |
|---|---|---|---|---|
| High pass filter | Micro-Tronics | HPM50102 | DDT-ZC00561 | 2025/04/22 |
| Pre-amplifier | COM-POWER | PAM-840A | DDT-ZC01693 | 2025/03/31 |
| RF cable | Yuhu Technology | ZT26S-SMAJ-SMAJ-1M | DDT-ZC02037 | 2025/03/31 |
| EMI TEST RECEIVER | R&S | ESU26 | DDT-ZC01909 | 2025/03/31 |
| High Pass filter | Xi'an Xingbo | XBLBQ-GTA67 | DDT-ZC02179 | 2025/04/22 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | DDT-ZC00506 | 2025/04/26 |
| Micro-Tronics filters | REBES | BRM50716 | DDT-ZC03240 | / |
| RF Cable | N/A | W24.02 HL-562 | DDT-ZC04022 | 2025/03/31 |
| Micro-Tronics filters | REBES | BRM50702 | DDT-ZC03242 | / |
| RF cable | Zhongke Junchuang | JCT26S-NJ-NJ-1.5M | DDT-ZC02762 | 2025/03/31 |
| PSA Series Spectrum Analyzer | Agilent | E4447A | DDT-ZC00517 | 2025/03/31 |
| RF Cable | N/A | W13.02 AP1-X2 | DDT-ZC04023 | 2025/03/31 |
| Pre-amplifier | COM-POWER | PAM-118A | DDT-ZC01293 | 2025/08/25 |
| Hochgewinn-Hornantenne | SCHWARZBECK | BBHA 9120 D | DDT-ZC02129 | 2025/09/18 |
| RF cable | Yuhu Technology | JCTB810-NJ-NJ-9M | DDT-ZC02538 | 2025/03/31 |
| Trilog Broadband Antenna | Schwarzbeck | VULB 9163 | DDT-ZC02050 | 2025/07/11 |
| Active Loop Antenna | Schwarzbeck | FMZB1519 | DDT-ZC00524 | 2025/09/11 |
| High pass filter | Micro-Tronics | HPM50108 | DDT-ZC00560 | 2025/04/22 |

## 9.2. Block diagram of test setup




## 9.3. Limits

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

## 9.4. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | Description | other |
|---|---|---|---|---|
| Laptop | HP | SL10H72009 | HP laptops | AC Adapter Mode: TPN-CA17, HP Part No.: L25299-002, Input: 100-240V, 50/60Hz, Output: DC 19.5V, 3.33A, 65W |

## 9.5. Test procedure

Same with Radiated Emission except change investigated frequency range.
Remark: All restriction band have been tested, and only the worst case is shown in report.

## 9.6. Test result

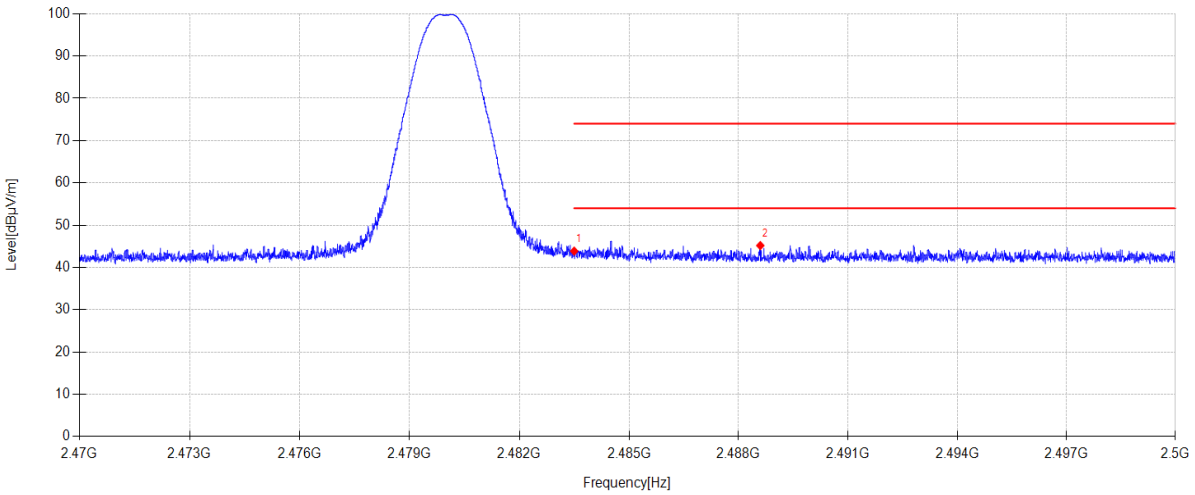
**PASS. (See below detailed test result)**

## 9.7. Test data

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | DH5 2480MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\27 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



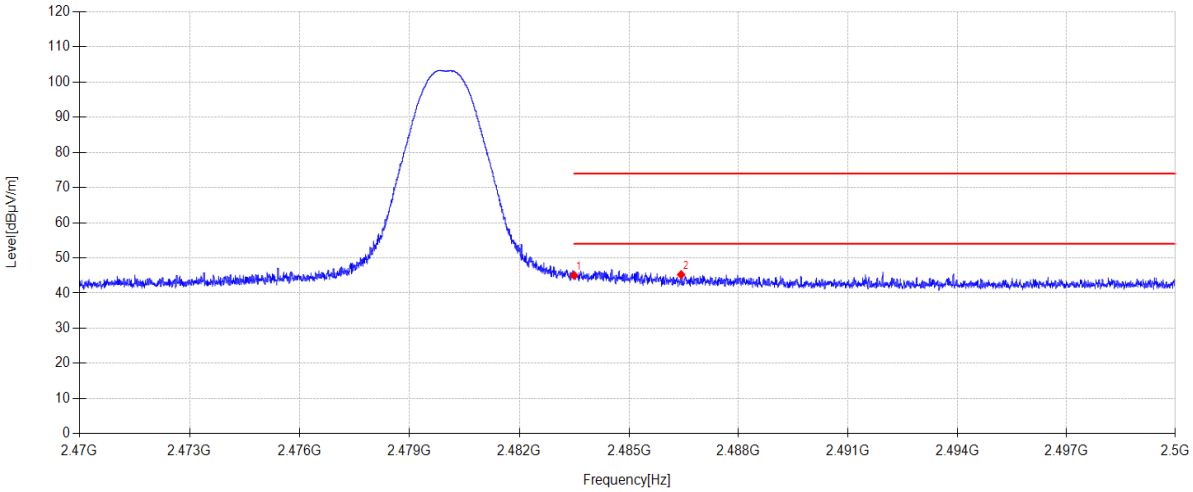

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2483.500 | 12.72 | 27.53 | 3.62 | 0.00 | 43.87 | 74.00 | 30.13 | PK | Horizontal |
| 2 | 2488.597 | 14.01 | 27.55 | 3.62 | 0.00 | 45.18 | 74.00 | 28.82 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | DH5 2480MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\28 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



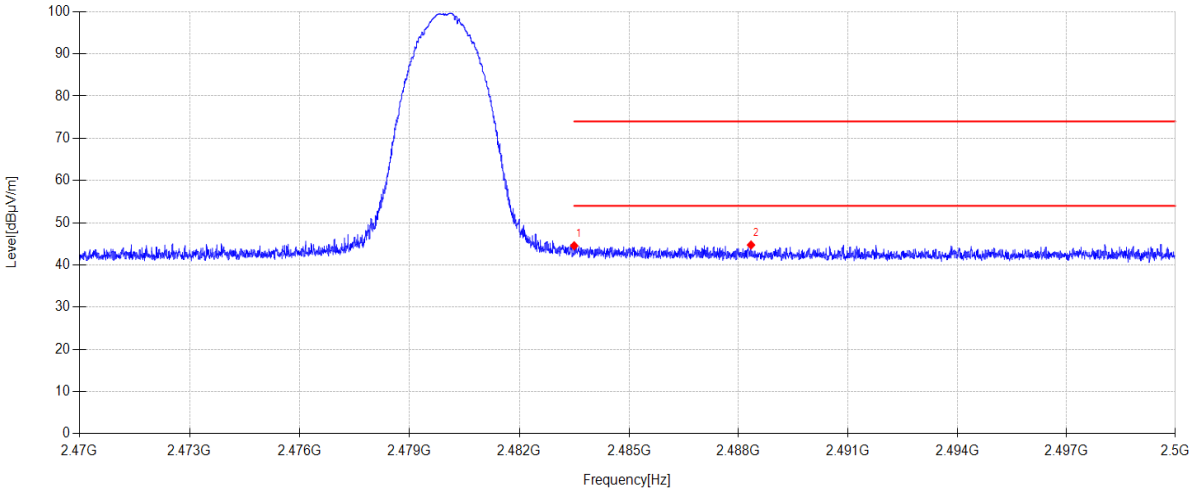

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2483.500 | 13.87 | 27.53 | 3.62 | 0.00 | 45.02 | 74.00 | 28.98 | PK | Vertical |
| 2 | 2486.428 | 14.07 | 27.55 | 3.62 | 0.00 | 45.24 | 74.00 | 28.76 | PK | Vertical |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 2DH5 2480MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\29 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



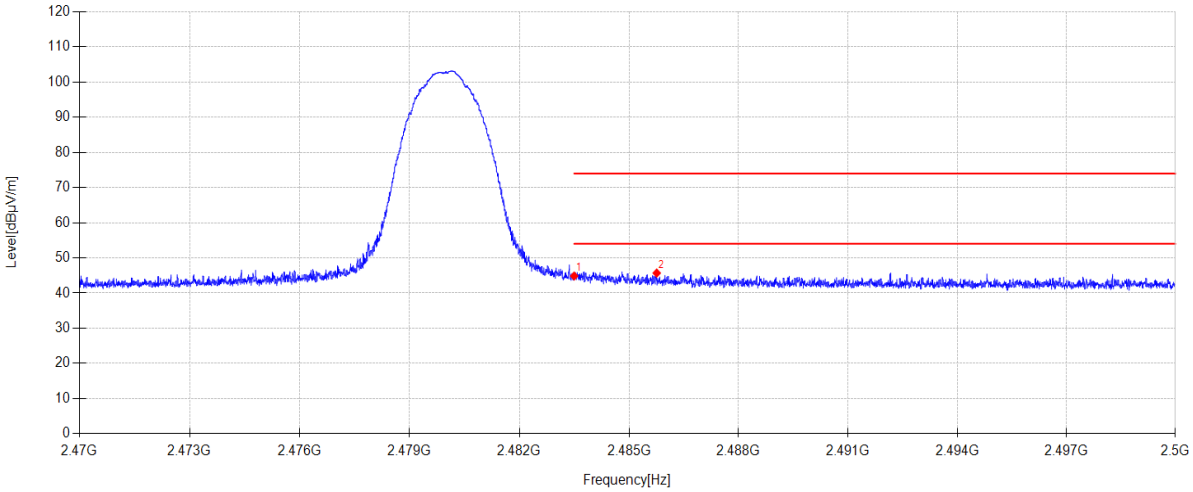

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2483.500 | 13.39 | 27.53 | 3.62 | 0.00 | 44.54 | 74.00 | 29.46 | PK | Horizontal |
| 2 | 2488.342 | 13.56 | 27.55 | 3.62 | 0.00 | 44.73 | 74.00 | 29.27 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 2DH5 2480MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\30 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



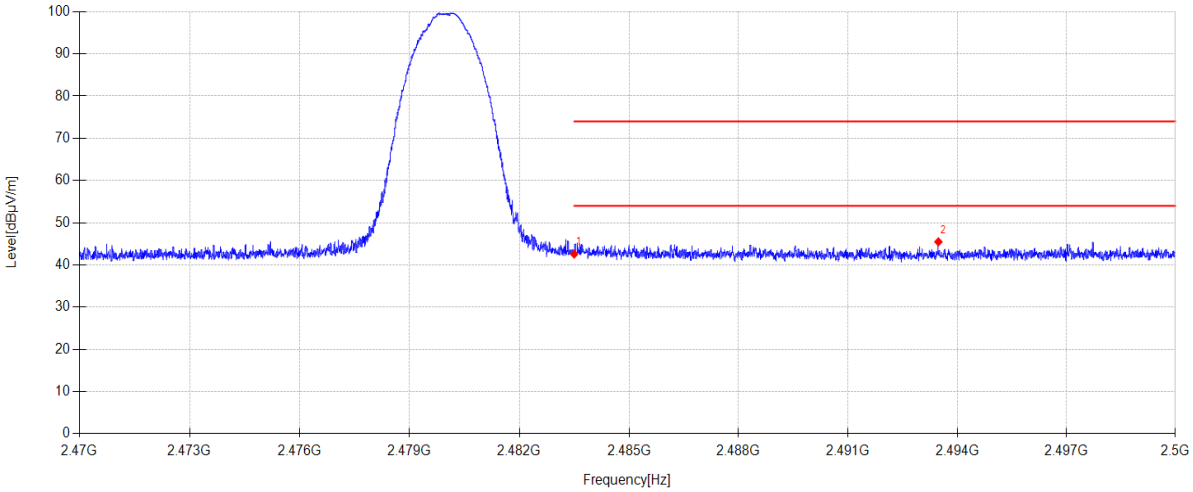

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2483.500 | 13.70 | 27.53 | 3.62 | 0.00 | 44.85 | 74.00 | 29.15 | PK | Vertical |
| 2 | 2485.759 | 14.53 | 27.54 | 3.62 | 0.00 | 45.69 | 74.00 | 28.31 | PK | Vertical |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2480MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\31 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



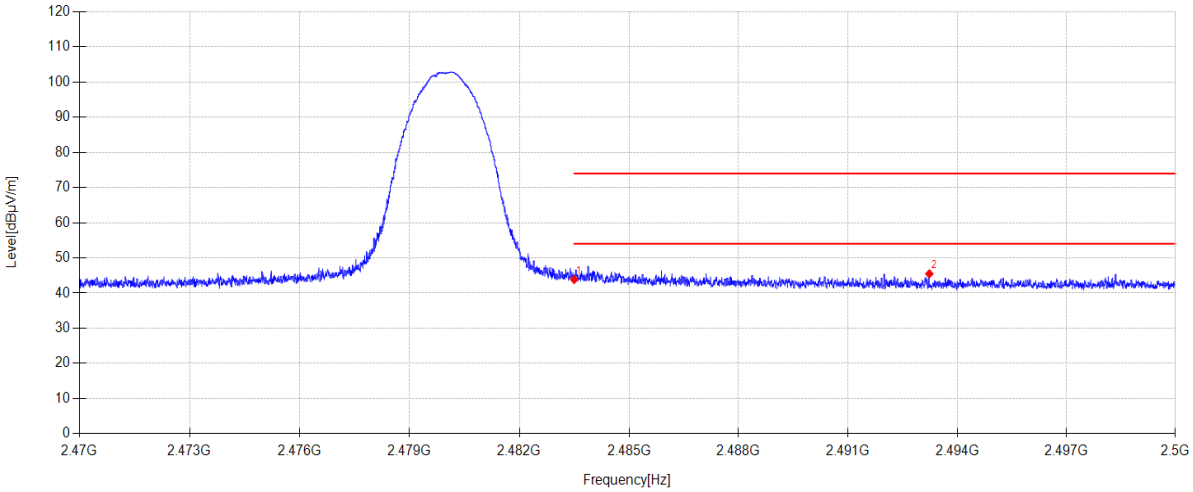

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2483.500 | 11.42 | 27.53 | 3.62 | 0.00 | 42.57 | 74.00 | 31.43 | PK | Horizontal |
| 2 | 2493.484 | 14.27 | 27.57 | 3.63 | 0.00 | 45.47 | 74.00 | 28.53 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2480MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\32 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



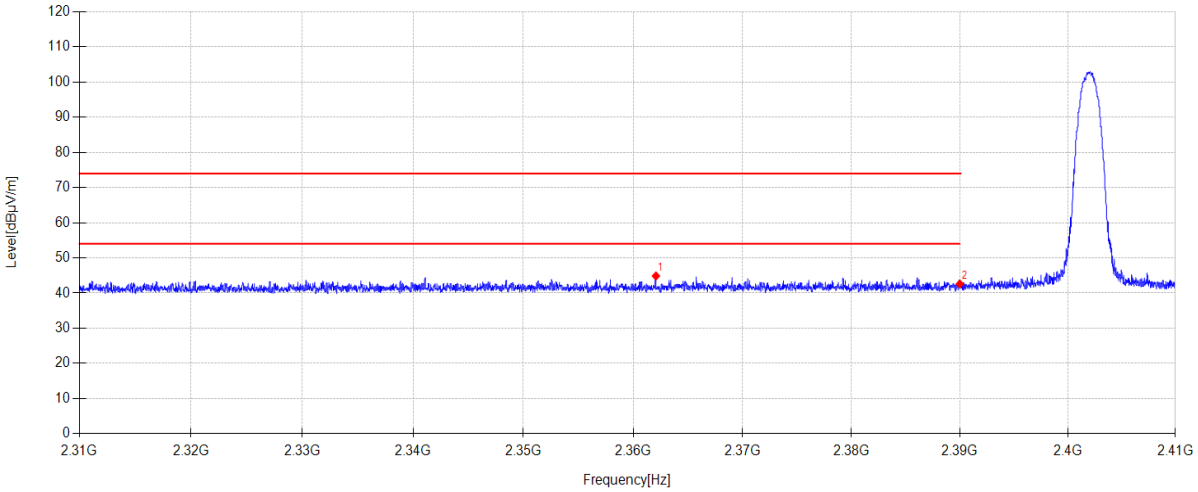

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2483.500 | 12.71 | 27.53 | 3.62 | 0.00 | 43.86 | 74.00 | 30.14 | PK | Vertical |
| 2 | 2493.235 | 14.28 | 27.57 | 3.63 | 0.00 | 45.48 | 74.00 | 28.52 | PK | Vertical |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2402MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\33 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



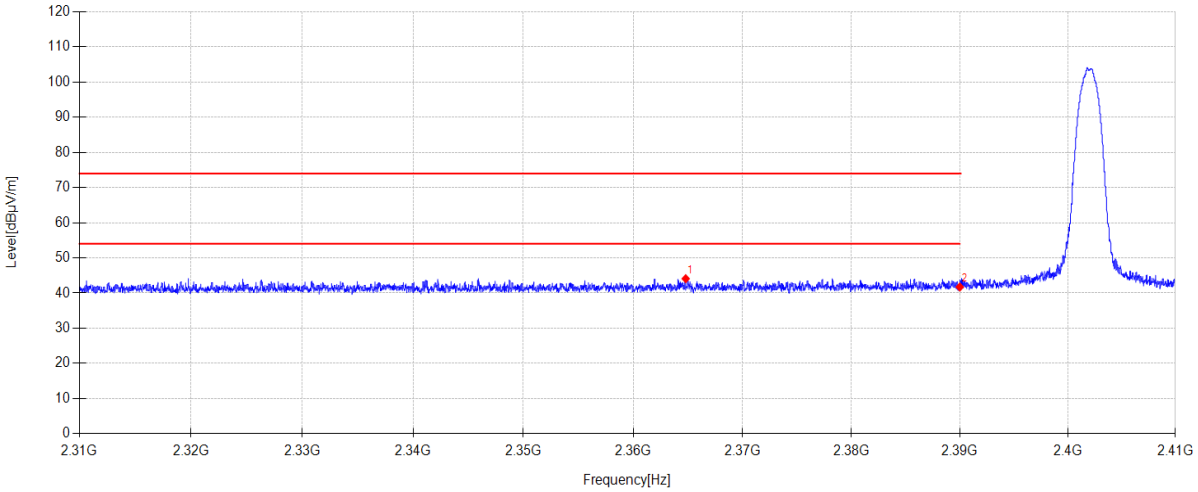

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2362.080 | 14.16 | 27.15 | 3.55 | 0.00 | 44.86 | 74.00 | 29.14 | PK | Horizontal |
| 2 | 2390.000 | 11.76 | 27.26 | 3.57 | 0.00 | 42.59 | 74.00 | 31.41 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 3DH5 2402MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\34 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



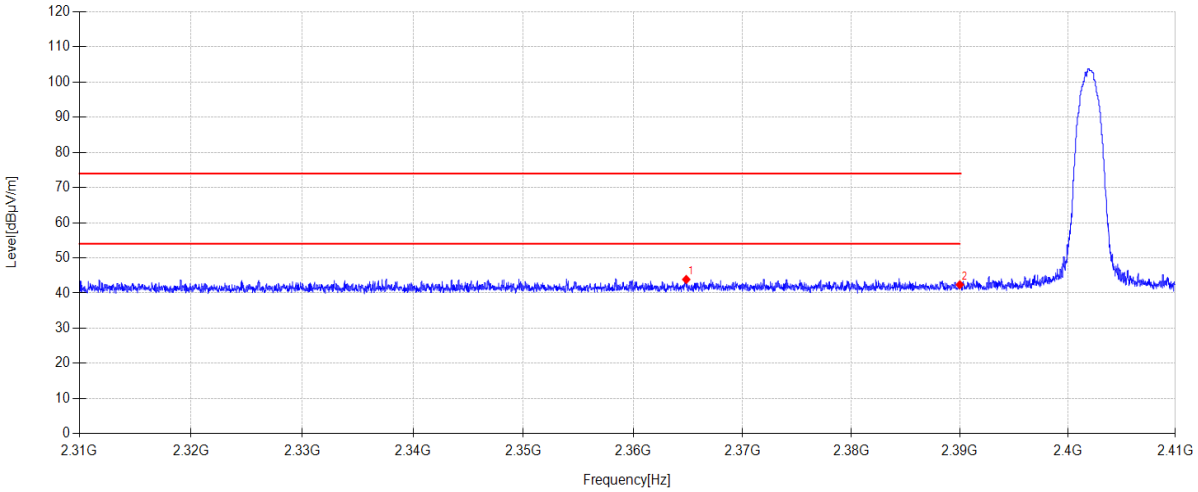

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2364.800 | 13.38 | 27.16 | 3.55 | 0.00 | 44.09 | 74.00 | 29.91 | PK | Vertical |
| 2 | 2390.000 | 10.90 | 27.26 | 3.57 | 0.00 | 41.73 | 74.00 | 32.27 | PK | Vertical |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 2DH5 2402MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\35 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



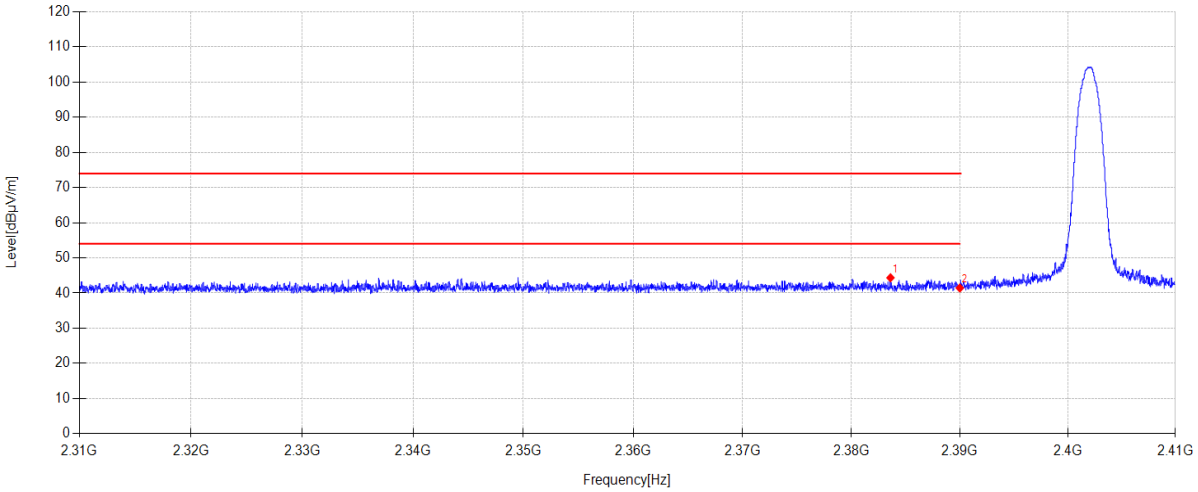

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2364.850 | 13.16 | 27.16 | 3.55 | 0.00 | 43.87 | 74.00 | 30.13 | PK | Horizontal |
| 2 | 2390.000 | 11.55 | 27.26 | 3.57 | 0.00 | 42.38 | 74.00 | 31.62 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | 2DH5 2402MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\36 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



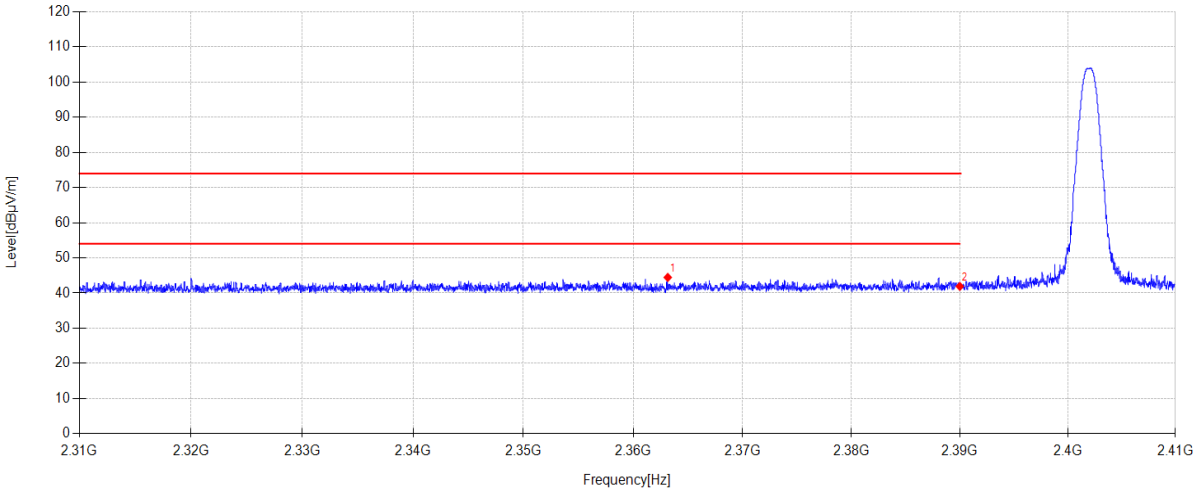

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2383.600 | 13.56 | 27.23 | 3.56 | 0.00 | 44.35 | 74.00 | 29.65 | PK | Vertical |
| 2 | 2390.000 | 10.62 | 27.26 | 3.57 | 0.00 | 41.45 | 74.00 | 32.55 | PK | Vertical |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | DH5 2402MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\37 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**



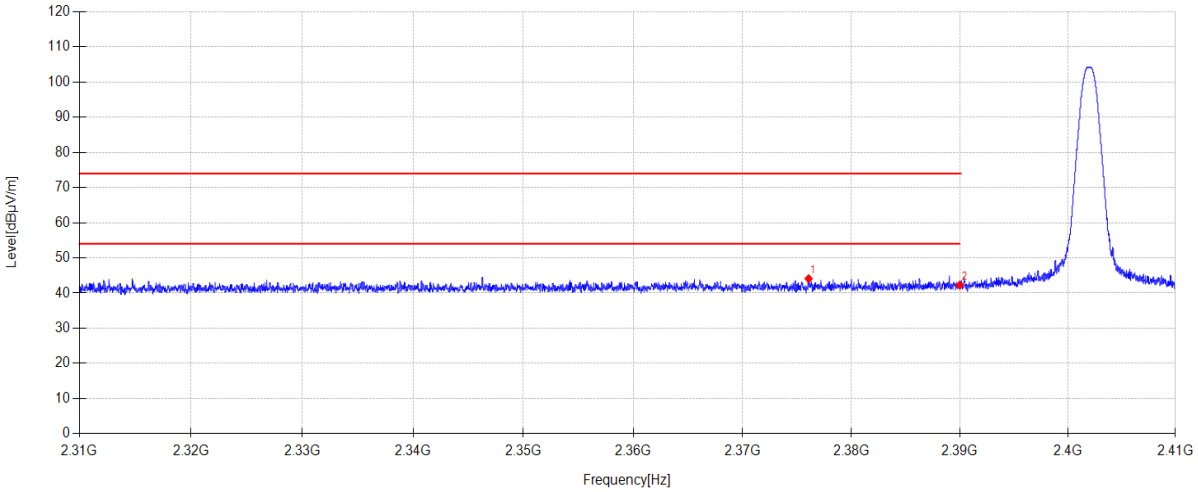

| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2363.160 | 13.76 | 27.15 | 3.55 | 0.00 | 44.46 | 74.00 | 29.54 | PK | Horizontal |
| 2 | 2390.000 | 11.08 | 27.26 | 3.57 | 0.00 | 41.91 | 74.00 | 32.09 | PK | Horizontal |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

| | | | |
|---|---|---|---|
| **Test Date**: | 2024-09-18 | **Tested By**: | Zhong Nan |
| **EUT**: | Wireless Headset | **Model Number**: | RDA0047 |
| **Test Mode**: | DH5 2402MHz Mode | **Power Supply**: | BATTERY |
| **Condition**: | Temp:23.5°C;Humi:65.2% | **Test Site**: | DDT 3# Chamber |
| **File Path**: | d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\38 | | |
| **Memo**: | Sample Number:S24080825-002 Power Setting:58 | | |

**Test Graph**




| Data List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | **Freq. [MHz]** | **Reading [dBµV/m]** | **Antenna Factor [dB]** | **Cable loss [dB]** | **AMP [dB]** | **Level [dBµV/m]** | **Limit [dBµV/m]** | **Margin [dB]** | **Detector** | **Polarity** |
| 1 | 2376.070 | 13.32 | 27.20 | 3.56 | 0.00 | 44.08 | 74.00 | 29.92 | PK | Vertical |
| 2 | 2390.000 | 11.44 | 27.26 | 3.57 | 0.00 | 42.27 | 74.00 | 31.73 | PK | Vertical |

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## 11. Photos of the EUT

Please refer to DDT-Q24080825-1E appendix I

**----------End Report----------**