



FCC AND ISED CERTIFICATION TEST REPORT

| | | |
|--------------------------------|---|---|
| Applicant | : | Harman International Industries, Inc. |
| Address of Applicant | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |
| Manufacturer | : | Harman International Industries, Inc. |
| Address of Manufacturer | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |
| Equipment under Test | : | Portable Bluetooth Speaker |
| Model No. | : | CHARGE6G |
| FCC ID | : | APIJBLCHARGE6G |
| IC | : | 6132A-JBLCHARGE6G |
| Test Standard(s) | : | 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) |
| Report No. | : | DDT-RE24081413-1E01 |
| Issue Date | : | 2024/10/17 |
| Issue By | : | Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808 |

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Test Report Declare

| | | |
|--------------------------------|---|--|
| Applicant | : | Harman International Industries, Inc. |
| Address of Applicant | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |
| Equipment under Test | : | Portable Bluetooth Speaker |
| Model No. | : | CHARGE6G |
| Manufacturer | : | Harman International Industries, Inc. |
| Address of Manufacturer | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |

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-RE24081413-1E01 | | |
| Date of Receipt: | 2024/08/29 | Date of Test: | 2024/08/29 - 2024/10/17 |

Prepared By:

Bobo Chen

Bobo Chen/Engineer

Approved By:



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 | 2024/10/17 | |
| | | | |

1. Summary of Test Results

| No. | Test Parameter | Clause No. | Condition | Result |
|-----|---------------------------------|--|-----------|--------|
| 1 | Maximum Peak Output Power | FCC Part 15: 15.247(b)(1), RSS-247 Issue 3 clause 5.4(b) | / | Pass |
| 2 | 20 dB Bandwidth | FCC Part 15: 15.247(a)(1), RSS-247 Issue 3 clause 5.1(a) | / | Pass |
| 3 | 99% Bandwidth | RSS-Gen Issue 5 clause 6.7 | / | Pass |
| 4 | Carrier Frequency Separation | FCC Part 15: 15.247(a)(1), RSS-247 Issue 3 clause 5.1(b) | / | Pass |
| 5 | Number of Hopping Channel | FCC Part 15: 15.247(a)(1)(iii), RSS-247 Issue 3 clause 5.1(d) | / | Pass |
| 6 | Dwell Time | FCC Part 15: 15.247(a)(1)(iii), RSS-247 Issue 3 clause 5.1(d) | / | Pass |
| 7 | RF Conducted Spurious Emissions | FCC Part 15: 15.247(d), RSS- 247 Issue 3 clause 5.5 | / | Pass |
| 8 | 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 |
| 9 | 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 |
| 10 | Antenna Requirement | FCC Part 15: 15.203, RSS- Gen Issue 5 clause 6.8 | / | Pass |
| 11 | Power Line Conducted Emissions | FCC Part 15: 15.207(a), RSS- Gen Issue 5 clause 8.8 | / | Pass |

Note: 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.

2. General Test Information

2.1. Description of EUT

| | |
|--------------------------|---|
| EUT Name | : Portable Bluetooth Speaker |
| Model Number | : CHARGE6G |
| EUT Function Description | : Please reference user manual of this device |
| Power Supply | : DC 5V/9V/12V/15V/20V---3.0A from external AC Adapter DC 7.2V 4722mAh Polymer Li-ion built-in battery |
| Antenna Type | : FPC |
| Max Antenna Gain(dBi) | : 2.11 |

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

| | |
|---------------------|-------------------------------|
| Radio Specification | : Bluetooth BR/EDR |
| Operation Frequency | : 2402 MHz-2480 MHz |
| Modulation | : GFSK, $\pi/4$ -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 | | |

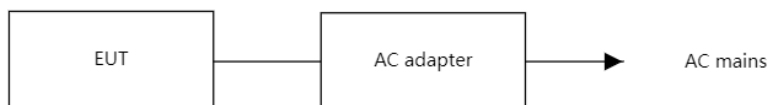
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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 |
|-------------|--------------|--------------|-------------|
| / | / | / | / |

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: FCC.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 | 9 | CH0 to CH78 | 2402 to 2480 |
| $\pi/4$ -DQPSK hopping on Tx mode | 9 | CH0 to CH78 | 2402 to 2480 |
| 8DPSK hopping on Tx mode | 9 | CH0 to CH78 | 2402 to 2480 |
| GFSK hopping off Tx mode | 9 | CH0 | 2402 |
| | 9 | CH39 | 2441 |
| | 9 | CH78 | 2480 |
| $\pi/4$ -DQPSK hopping off Tx mode | 9 | CH0 | 2402 |
| | 9 | CH39 | 2441 |
| | 9 | CH78 | 2480 |
| 8DPSK hopping off Tx mode | 9 | CH0 | 2402 |
| | 9 | CH39 | 2441 |
| | 9 | CH78 | 2480 |

Worst-case data rates were: GFSK mode: DH5, $\pi/4$ -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°C to +35 °C |
| Humidity range: | 20% to 75% |
| Pressure range: | 86 kPa to 106 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 x 10 ⁻⁸ (Antenna couple method) |
| | 5.5 x 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) | 3x10 ⁻⁸ |
| Temperature | 0.4 °C |
| 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) |

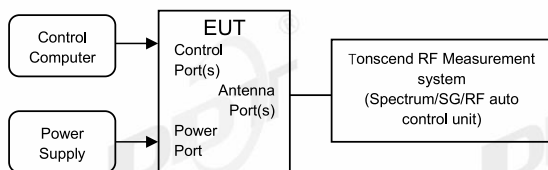
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment Used During Conductive Test

| Equipment | Manufacturer | Model No. | Serial Number | Due Date |
|--|--------------|-------------|---------------|------------|
| <input checked="" type="checkbox"/> RF Connected Test (RF Measurement System 1#) | | | | |
| SIGNAL ANALYZER | R&S | FSQ26 | 101272 | 2025/03/31 |
| Wideband Radio Communication Tester | R&S | CMW500 | 120259 | 2025/07/08 |
| MXG Vector Signal Generator | KEYSIGHT | N5182B | MY59100192 | 2025/03/31 |
| MXG Vector Signal Generator | Agilent | N5182A | MY19060405 | 2025/03/31 |
| RF Control Unit | Tonsend | JS0806-2 | 158060010 | 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. 20 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 6.9.2.
- (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 20 dB bandwidth measurement:

| | |
|----------------|-------------------------------------|
| RBW: | 1% to 5% of the OBW |
| VBW: | approximately three times RBW |
| Span: | between 2 times and 5 times the OBW |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode: | Max hold |

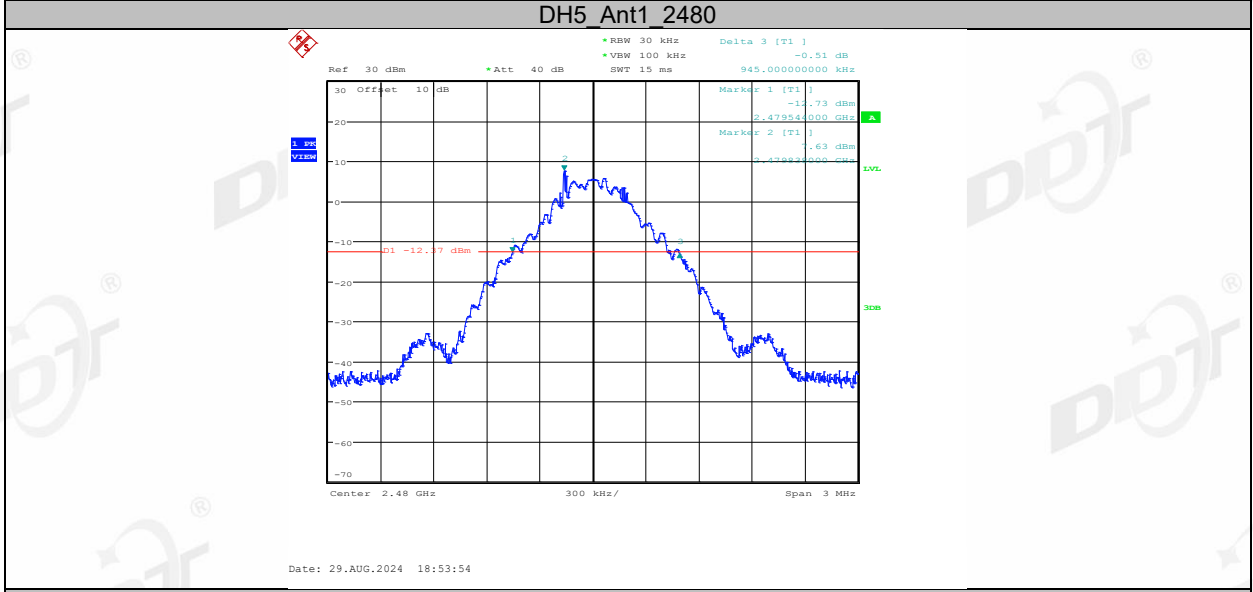
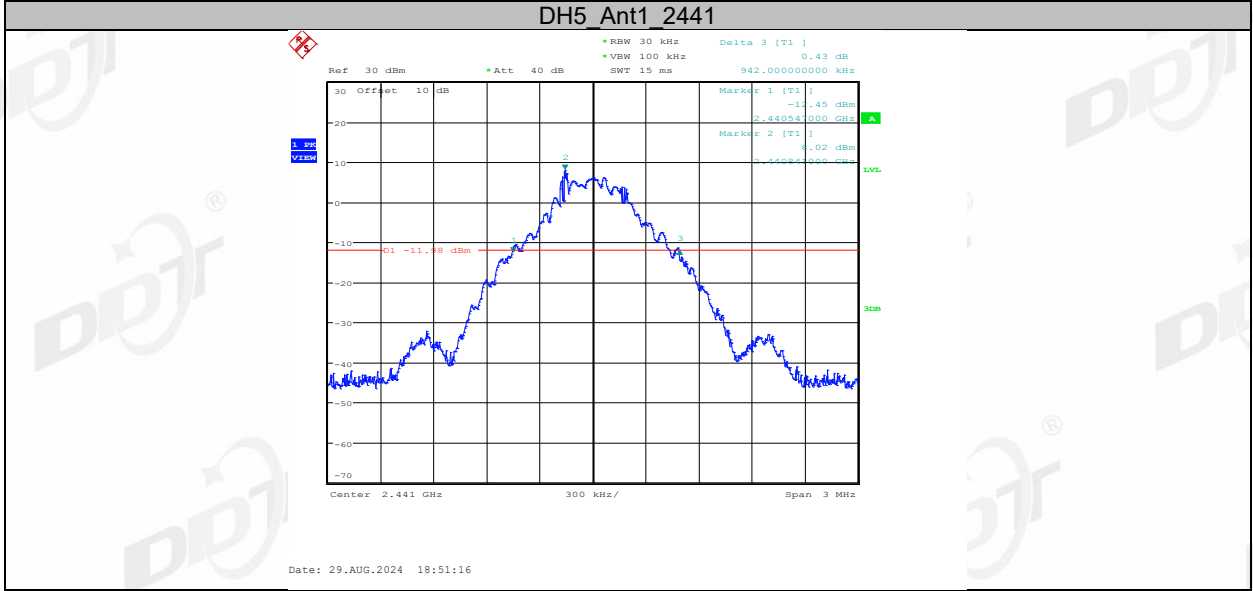
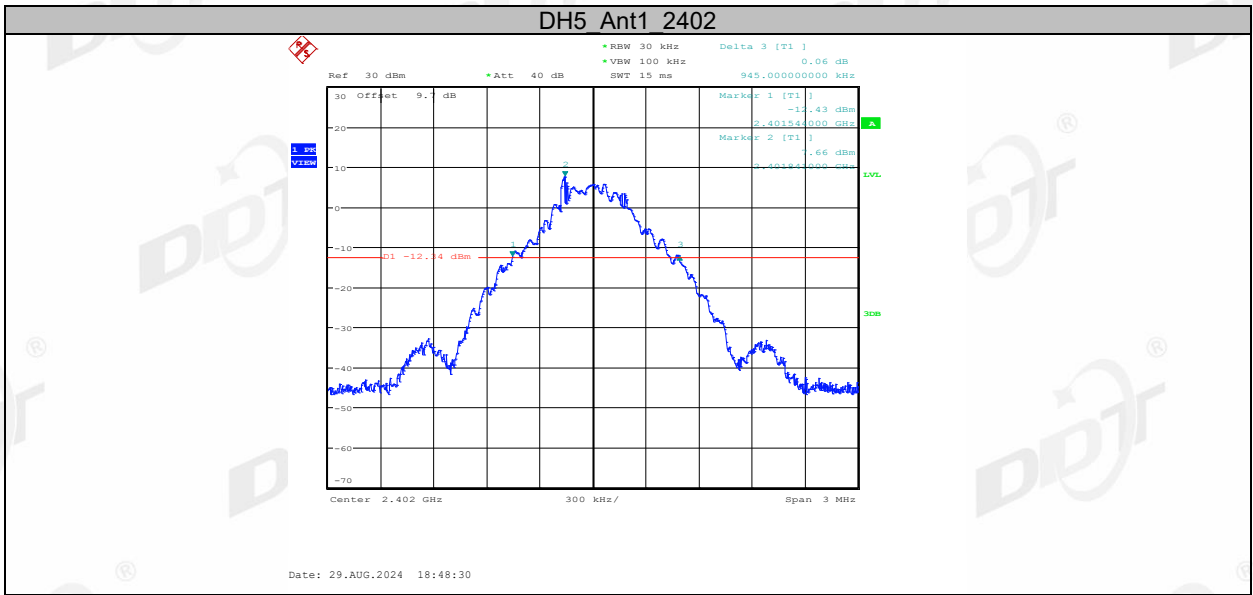
- (5) Measure and record the results in the report.

4.4. Test result

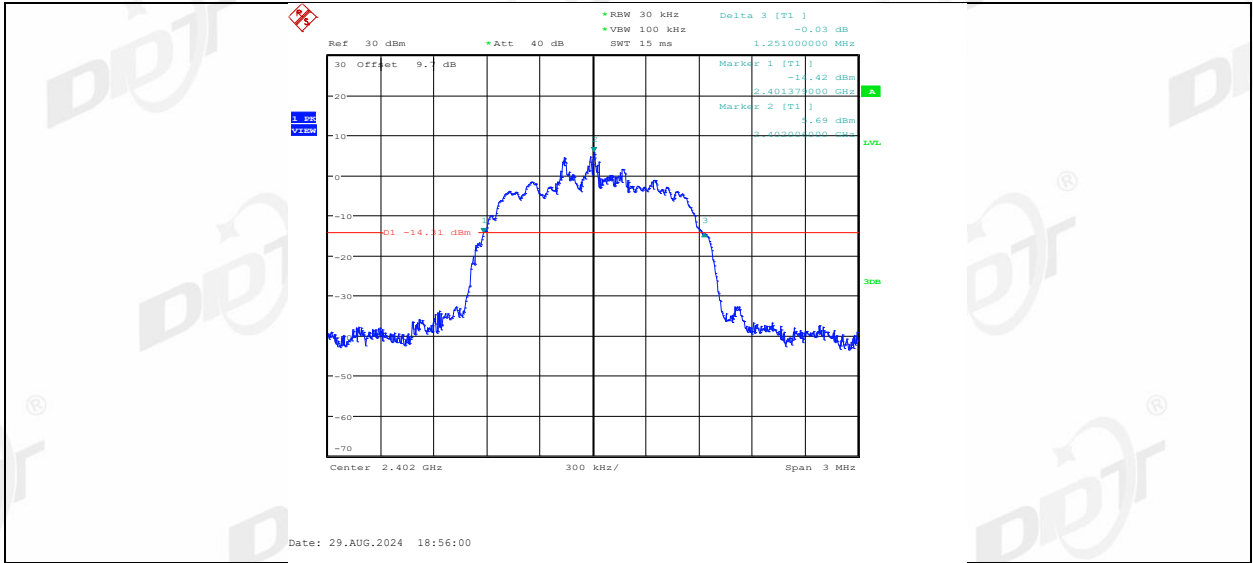
| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.08.29 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

| Test Mode | Antenna | Frequency [MHz] | 20dB EBW[MHz] |
|-----------|---------|-----------------|---------------|
| DH5 | Ant1 | 2402 | 0.95 |
| | | 2441 | 0.94 |
| | | 2480 | 0.95 |
| 2DH5 | Ant1 | 2402 | 1.25 |
| | | 2441 | 1.28 |
| | | 2480 | 1.25 |
| 3DH5 | Ant1 | 2402 | 1.21 |
| | | 2441 | 1.20 |
| | | 2480 | 1.21 |

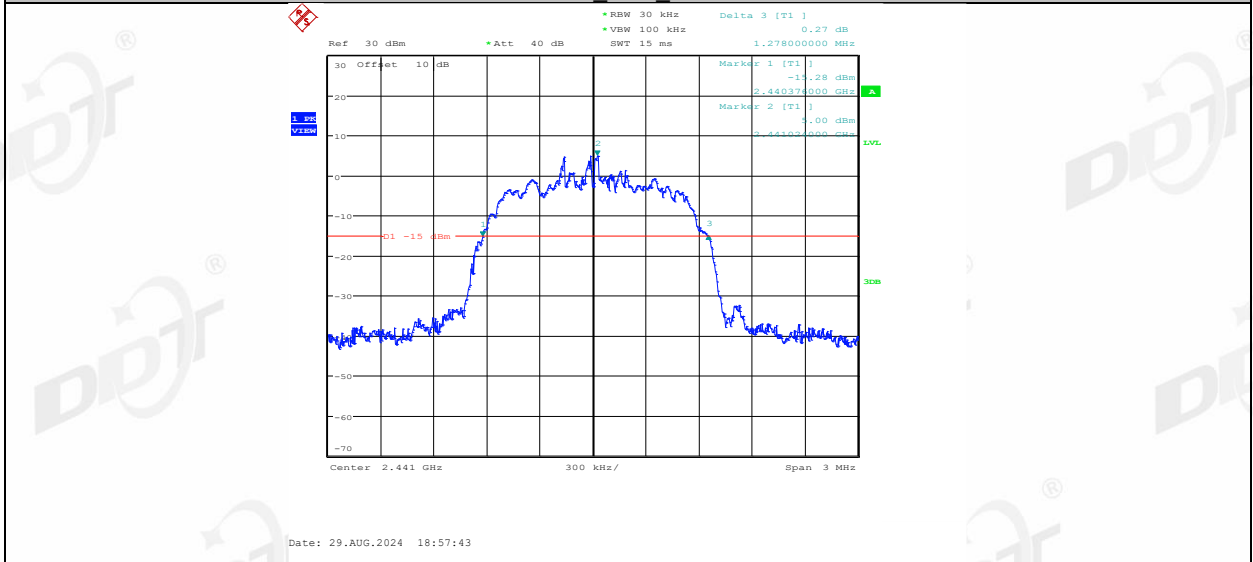
4.5. Test graphs



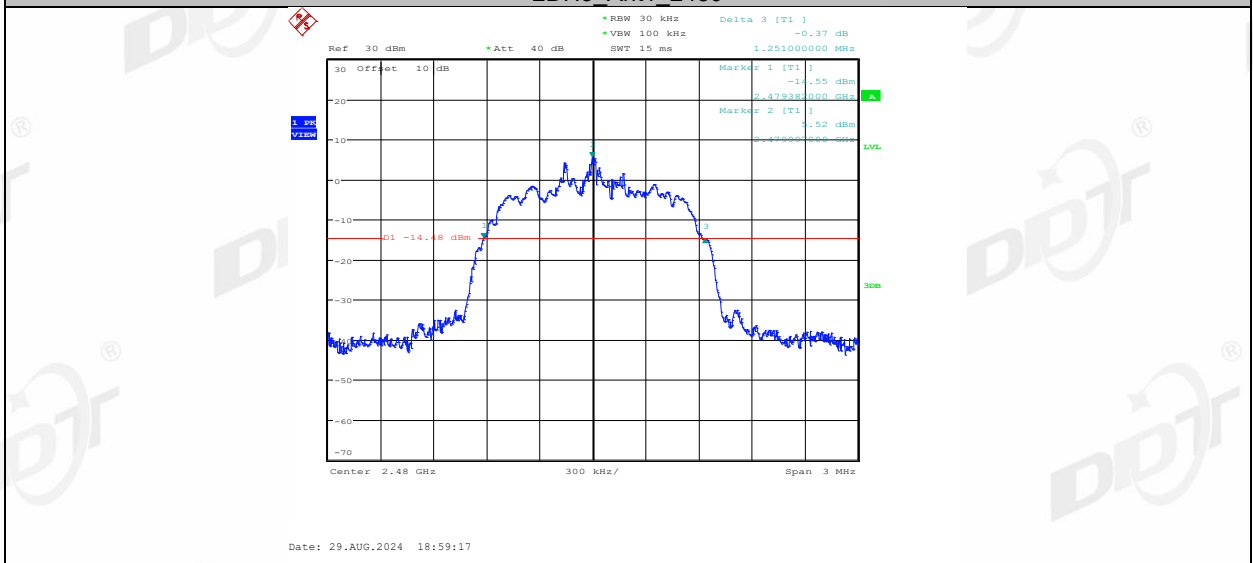
2DH5_Ant1_2402



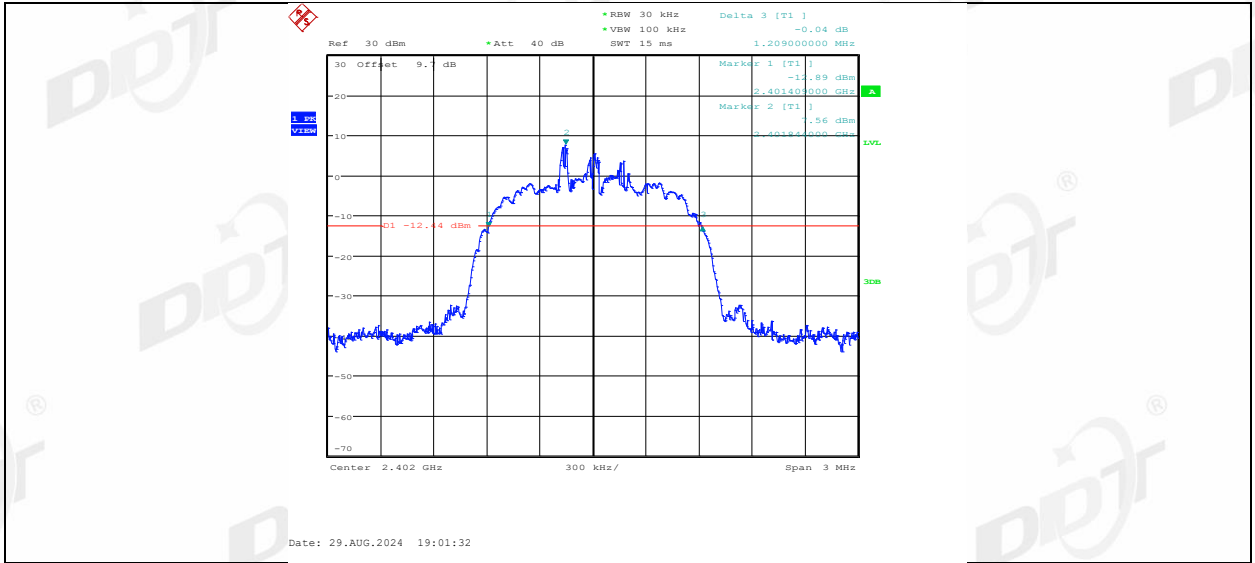
2DH5_Ant1_2441



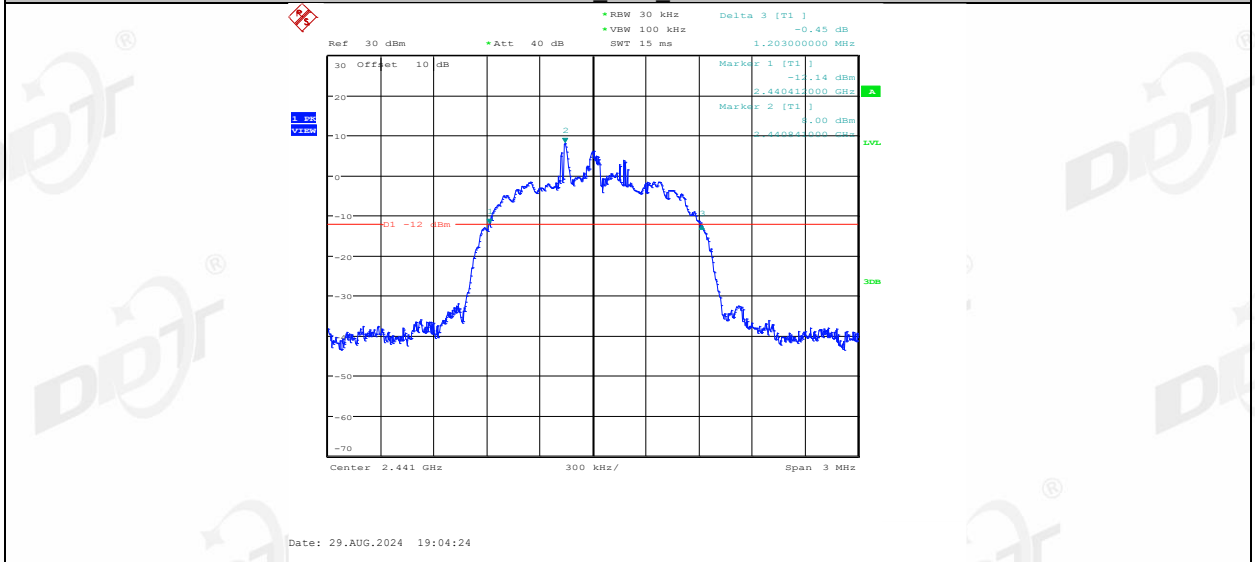
2DH5_Ant1_2480



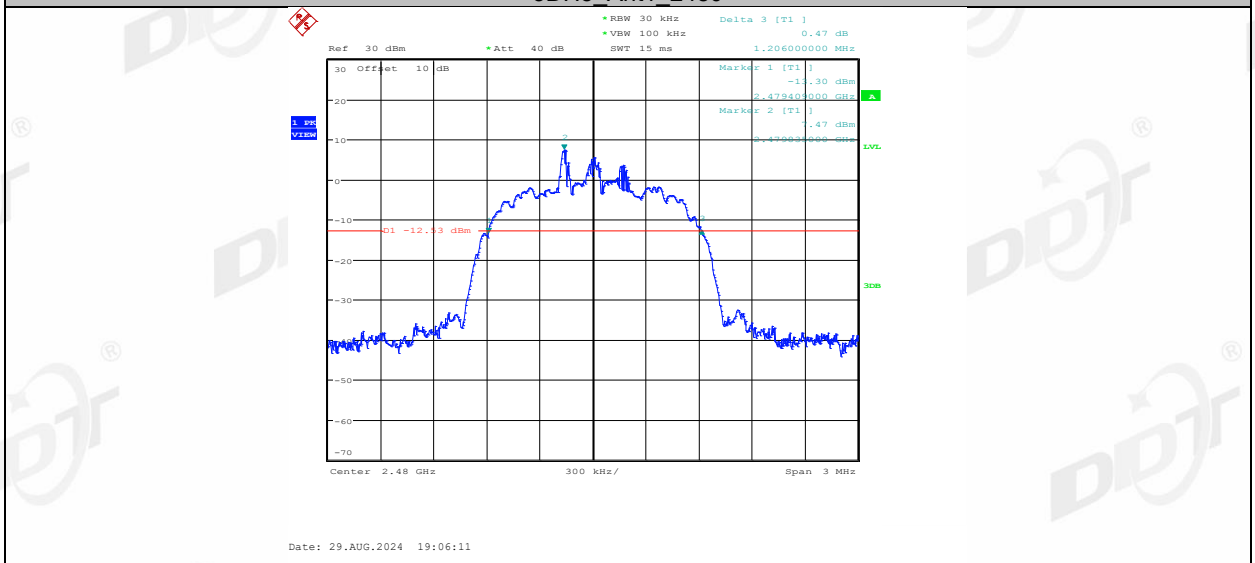
3DH5_Ant1_2402



3DH5_Ant1_2441

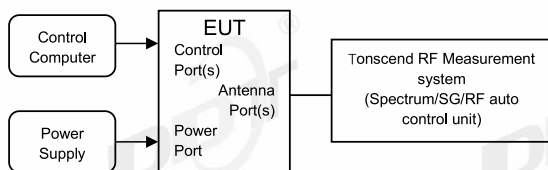


3DH5_Ant1_2480



5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 6.9.3.
- (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 99% bandwidth measurement:

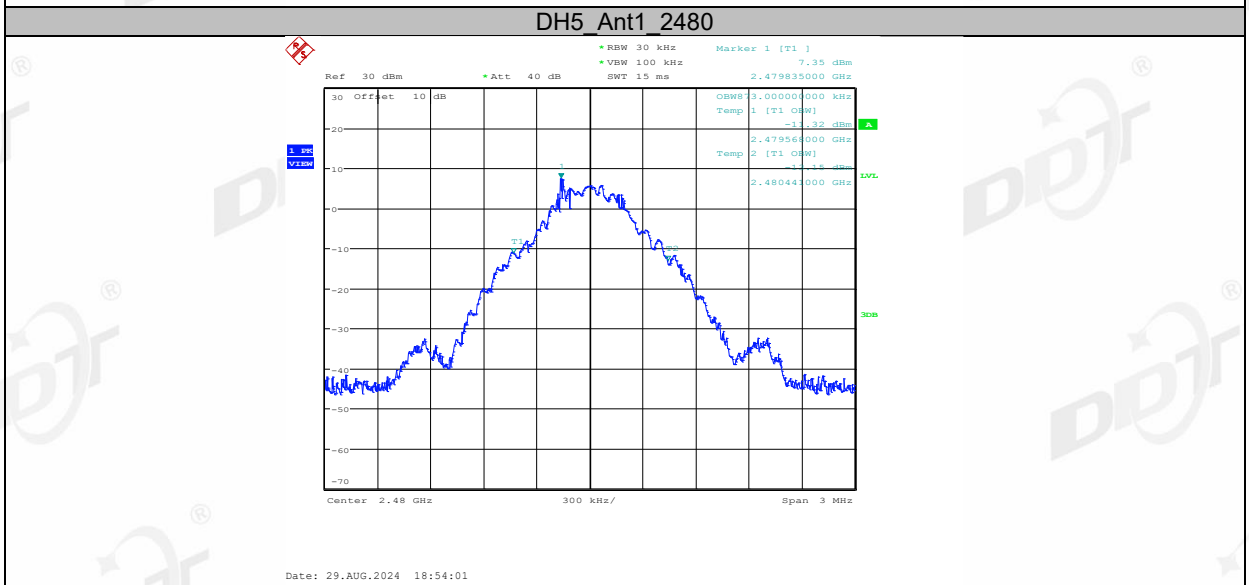
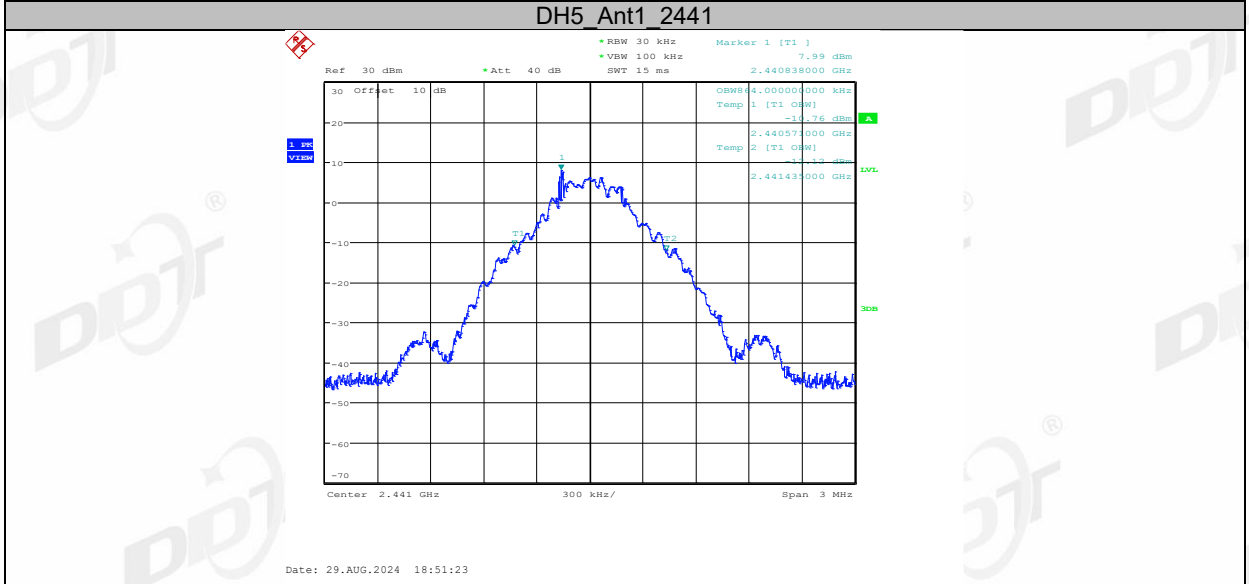
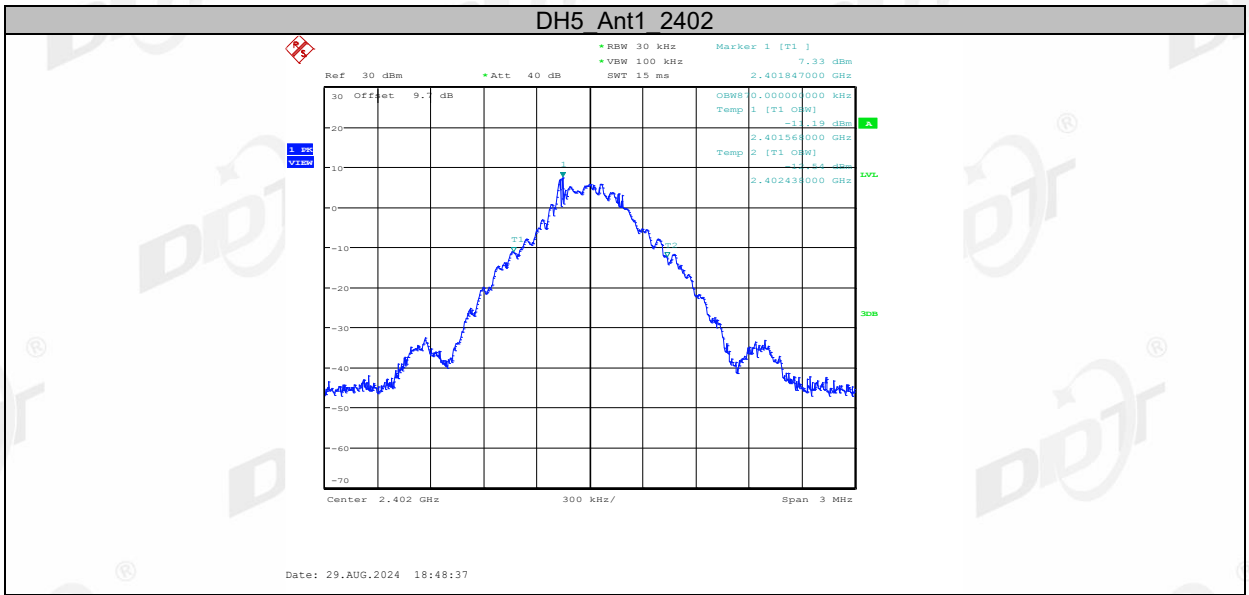
| | |
|----------------|---|
| RBW: | 1% to 5% of the OBW |
| VBW: | approximately three times RBW |
| Span: | between 1.5 times and 5.0 times the OBW |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode: | Max hold |
- (5) Measure and record the results in the report.

5.4. Test result

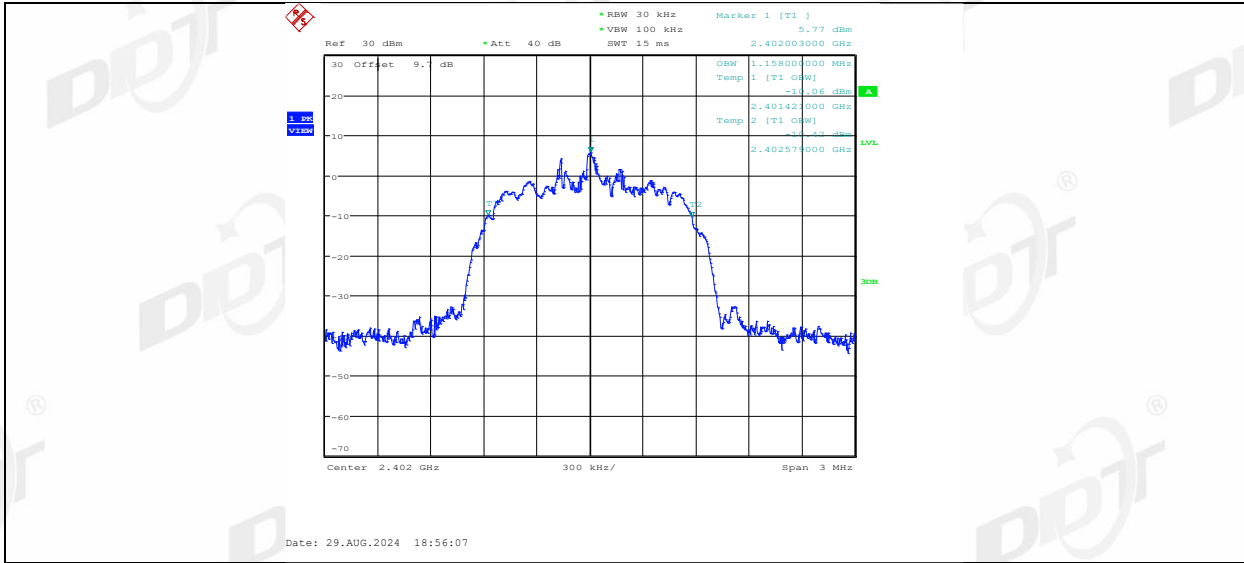
| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.08.29 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

| Test Mode | Antenna | Frequency [MHz] | OCB [MHz] | FL[MHz] | FH[MHz] |
|-----------|---------|-----------------|-----------|-----------|-----------|
| DH5 | Ant1 | 2402 | 0.87 | 2401.5680 | 2402.4380 |
| | | 2441 | 0.864 | 2440.5710 | 2441.4350 |
| | | 2480 | 0.873 | 2479.5680 | 2480.4410 |
| 2DH5 | Ant1 | 2402 | 1.158 | 2401.4210 | 2402.5790 |
| | | 2441 | 1.155 | 2440.4240 | 2441.5790 |
| | | 2480 | 1.161 | 2479.4210 | 2480.5820 |
| 3DH5 | Ant1 | 2402 | 1.152 | 2401.4300 | 2402.5820 |
| | | 2441 | 1.149 | 2440.4300 | 2441.5790 |
| | | 2480 | 1.152 | 2479.4300 | 2480.5820 |

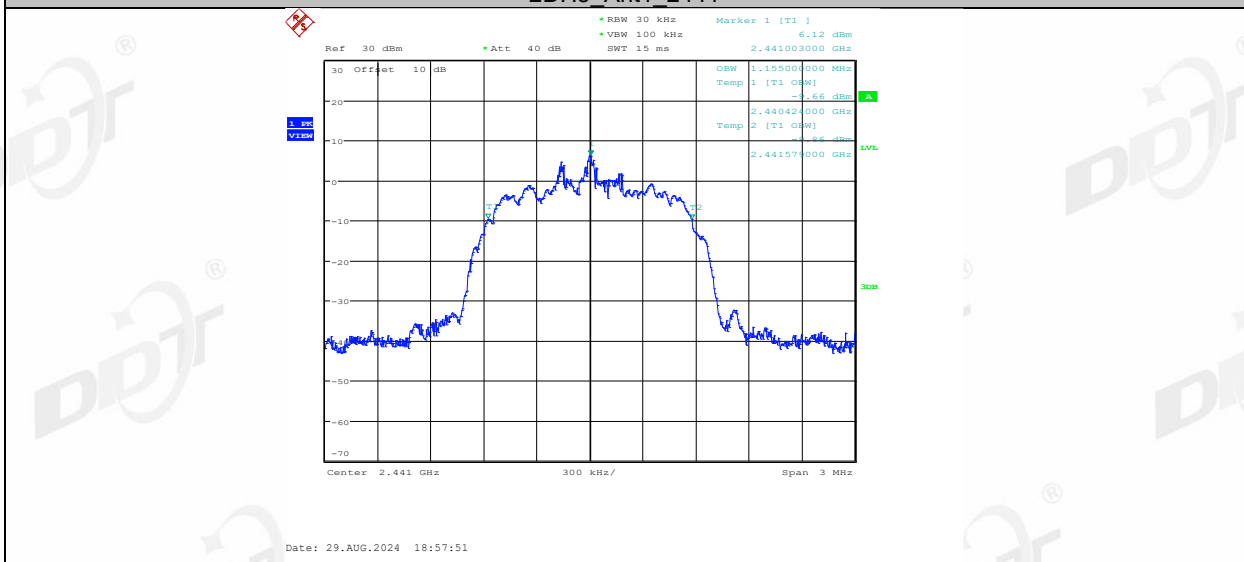
5.5. Test graphs



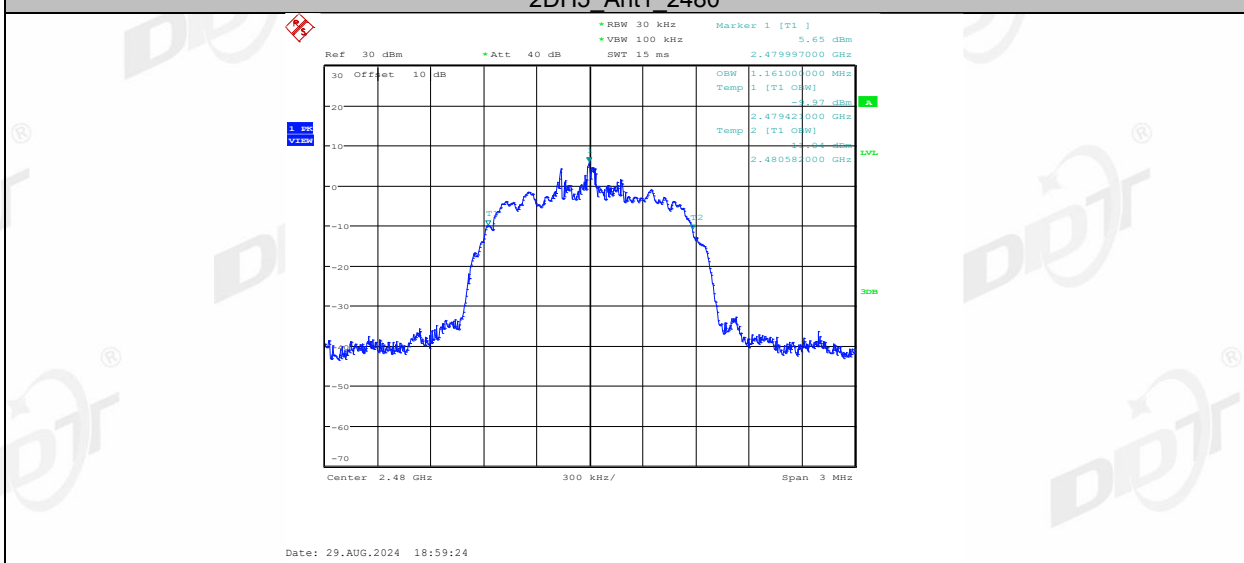
2DH5_Ant1_2402



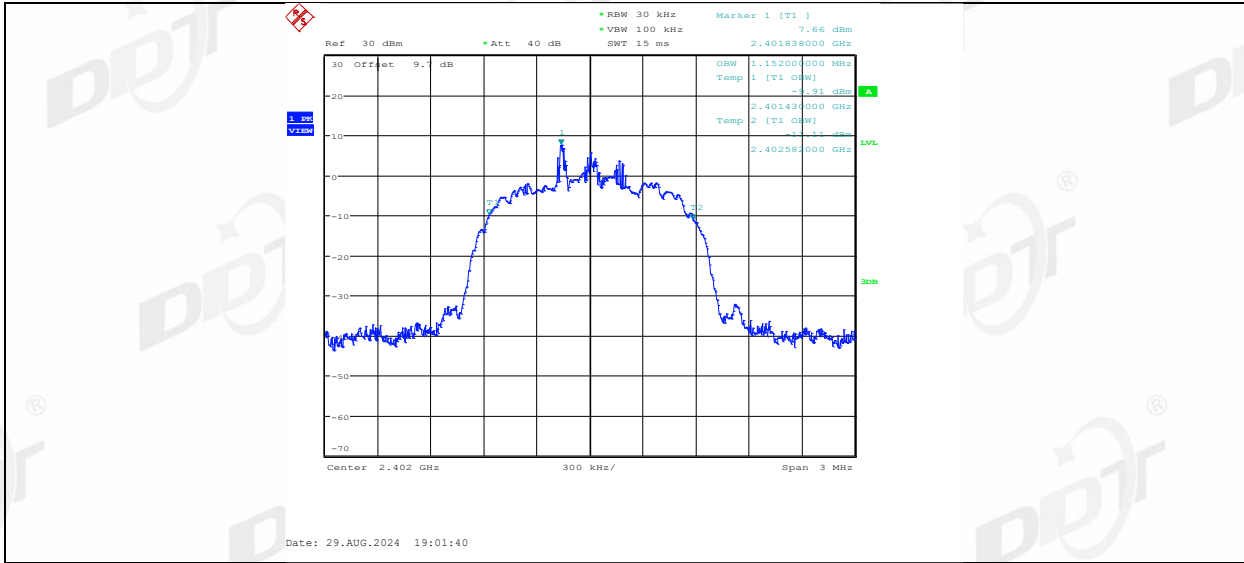
2DH5 Ant1 2441



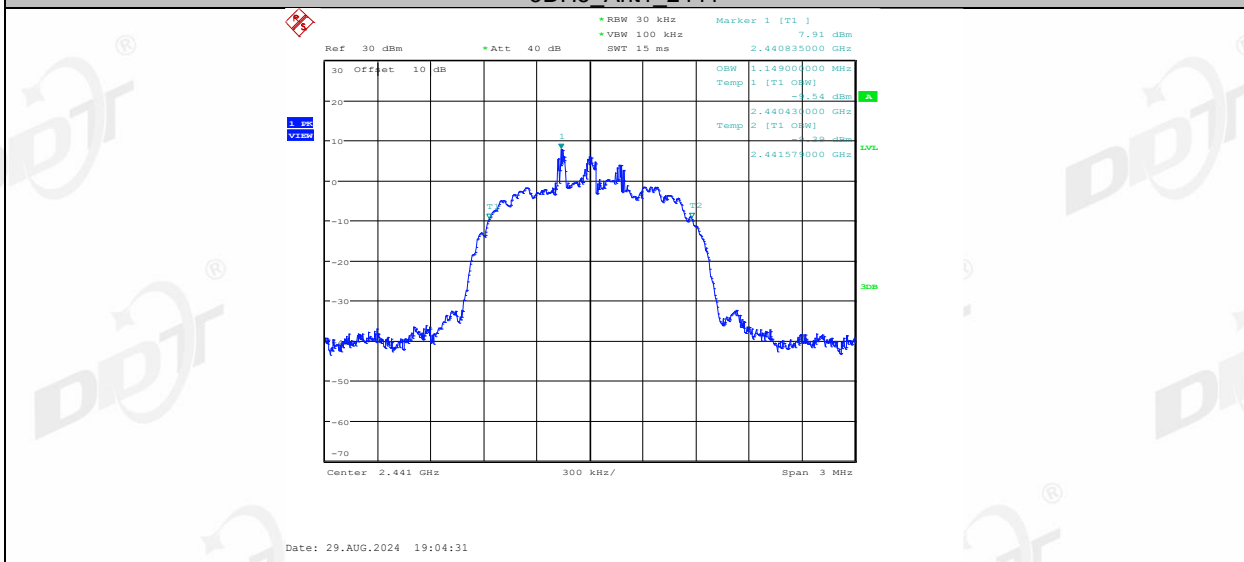
2DH5 Ant1 2480



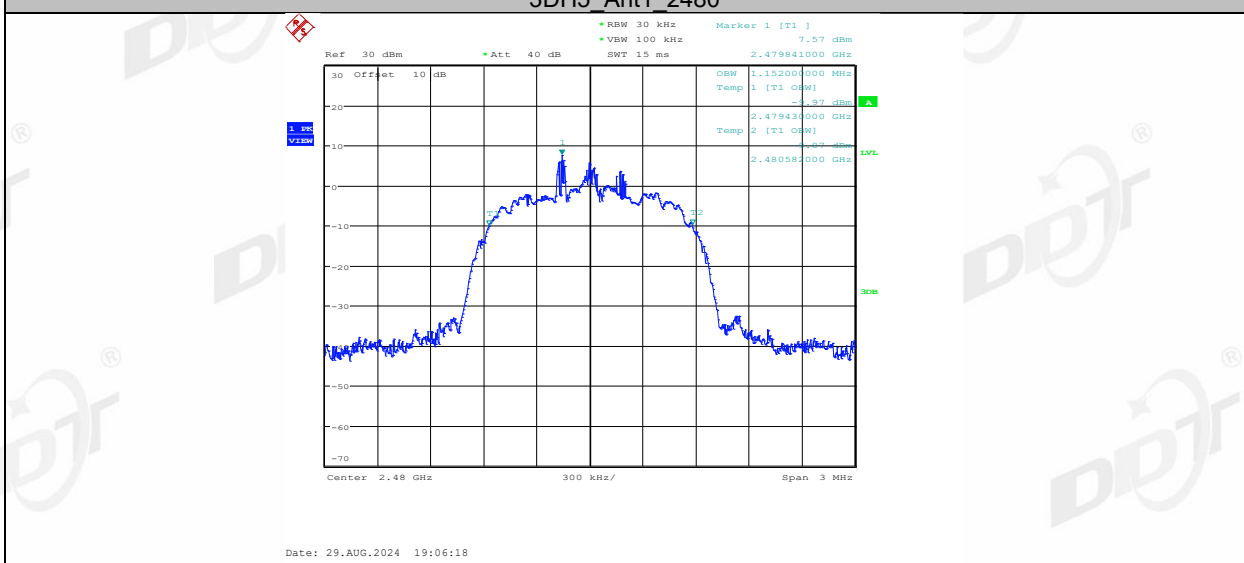
3DH5 Ant1 2402



3DH5_Ant1_2441

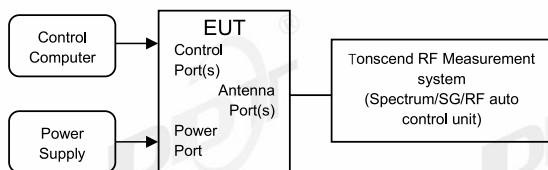


3DH5_Ant1_2480



6. Maximum Peak Output Power

6.1. Block diagram of test setup



6.2. 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.

6.3. 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:

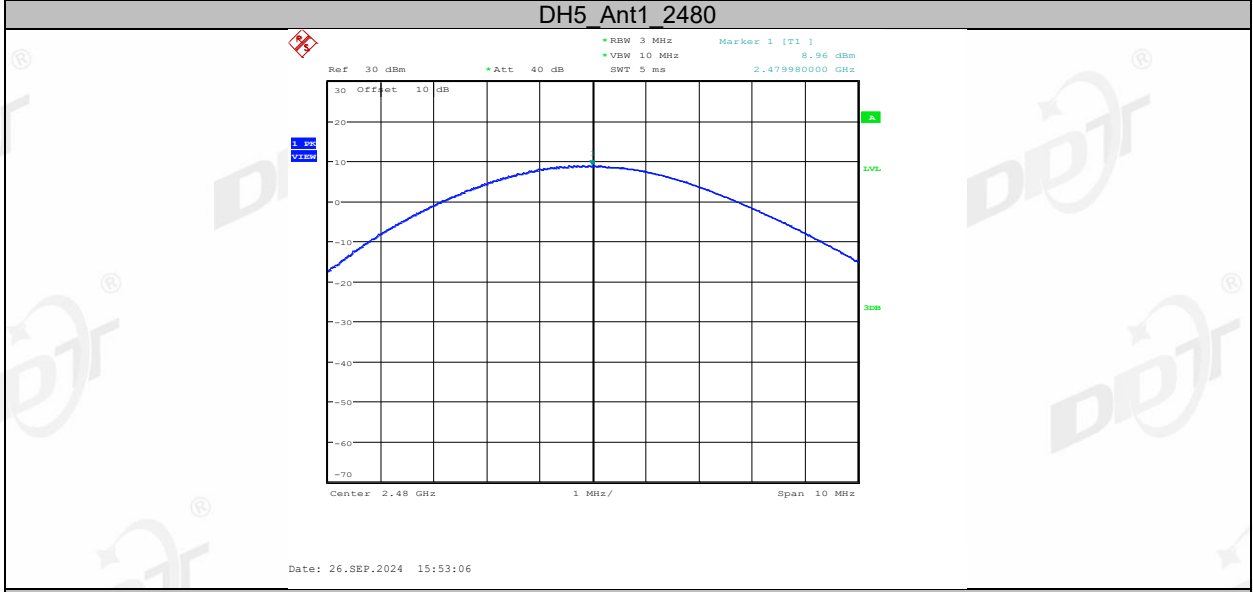
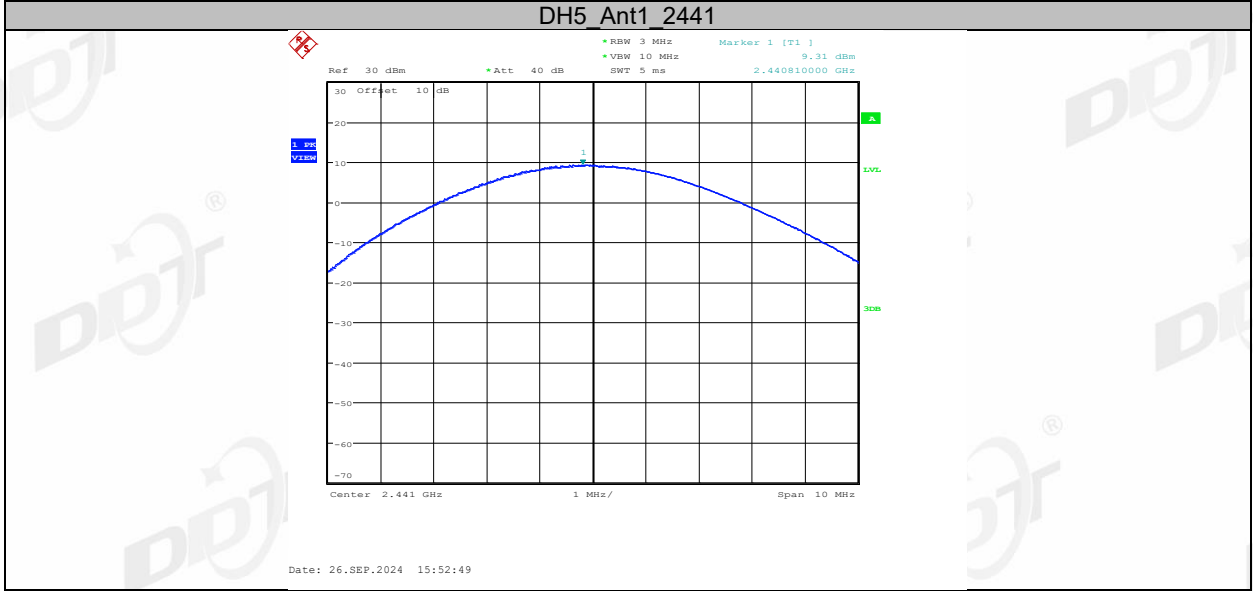
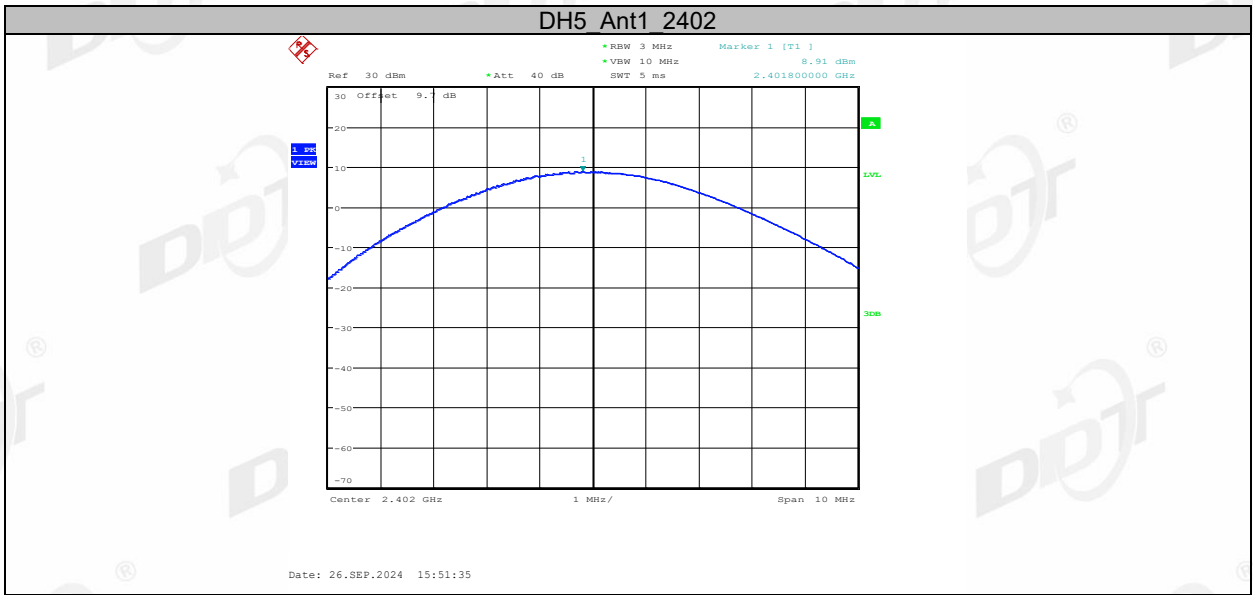
| | |
|----------------|--|
| RBW: | > 20 dB bandwidth of the emission being measured. |
| VBW: | $VBW \geq RBW$. |
| Span: | Approximately five times the 20 dB bandwidth, centered on a hopping channel. |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode: | Max hold |
- (5) Use the marker-to-peak function to set the marker to the peak of the emission and record the results in the report.

6.4. Test result

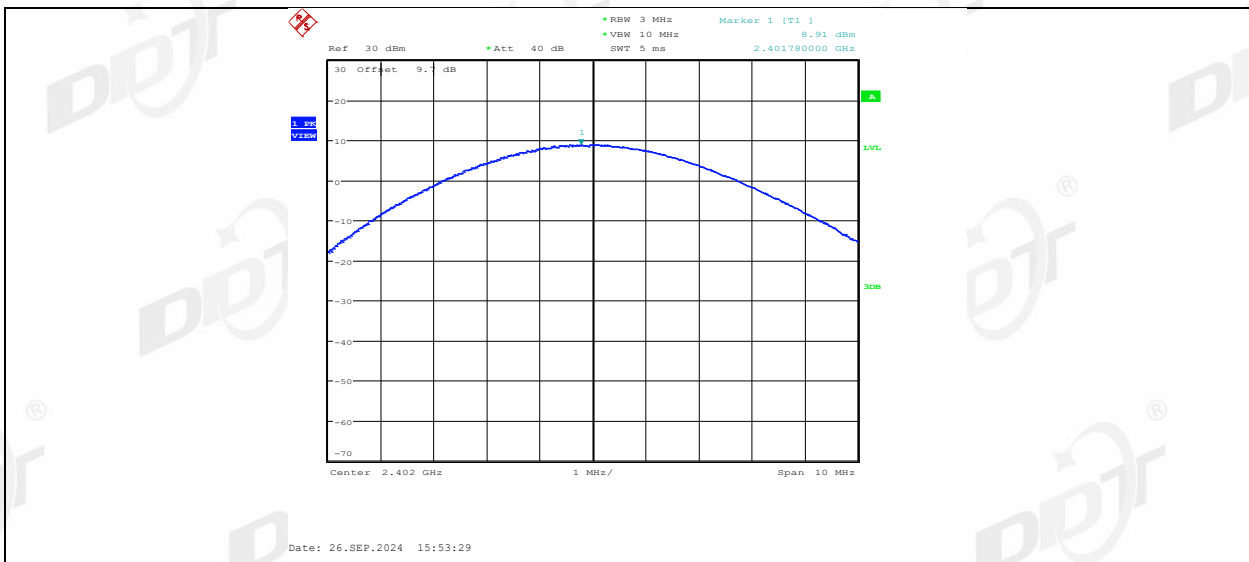
| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.09.26 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | EIRP[dBm] | EIRP Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|-----------|-----------------|---------|
| DH5 | Ant1 | 2402 | 8.91 | ≤20.97 | 11.02 | ≤30 | PASS |
| | | 2441 | 9.31 | ≤20.97 | 11.42 | ≤30 | PASS |
| | | 2480 | 8.96 | ≤20.97 | 11.07 | ≤30 | PASS |
| 2DH5 | Ant1 | 2402 | 8.91 | ≤20.97 | 11.02 | ≤30 | PASS |
| | | 2441 | 9.35 | ≤20.97 | 11.46 | ≤30 | PASS |
| | | 2480 | 8.96 | ≤20.97 | 11.07 | ≤30 | PASS |
| 3DH5 | Ant1 | 2402 | 9.02 | ≤20.97 | 11.13 | ≤30 | PASS |
| | | 2441 | 9.44 | ≤20.97 | 11.55 | ≤30 | PASS |
| | | 2480 | 9.05 | ≤20.97 | 11.16 | ≤30 | PASS |

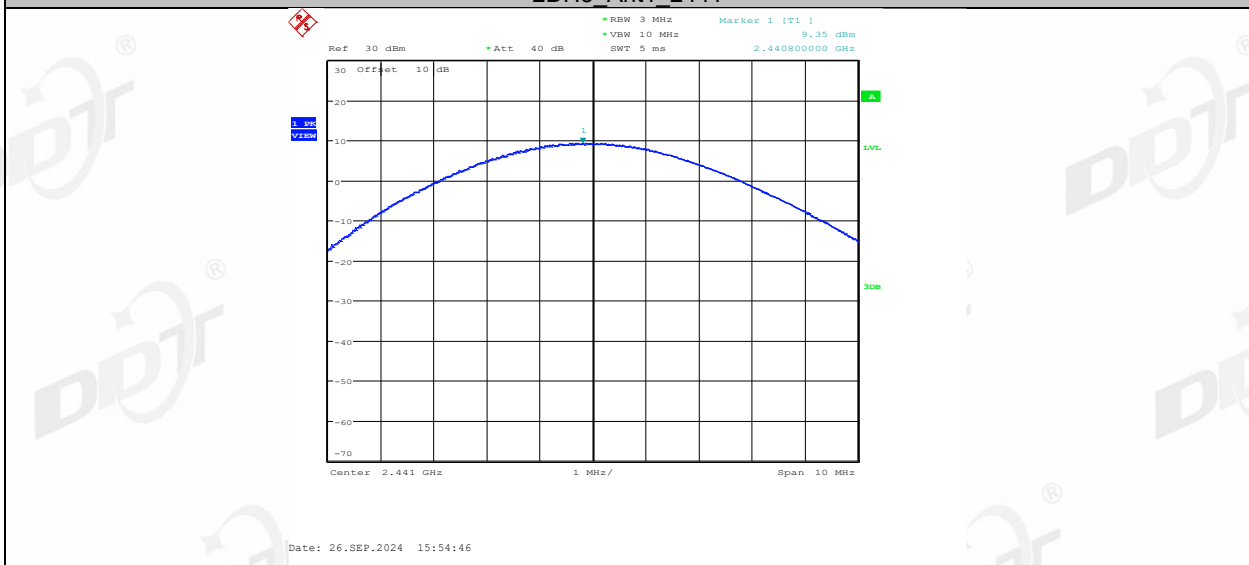
6.5.Test graphs



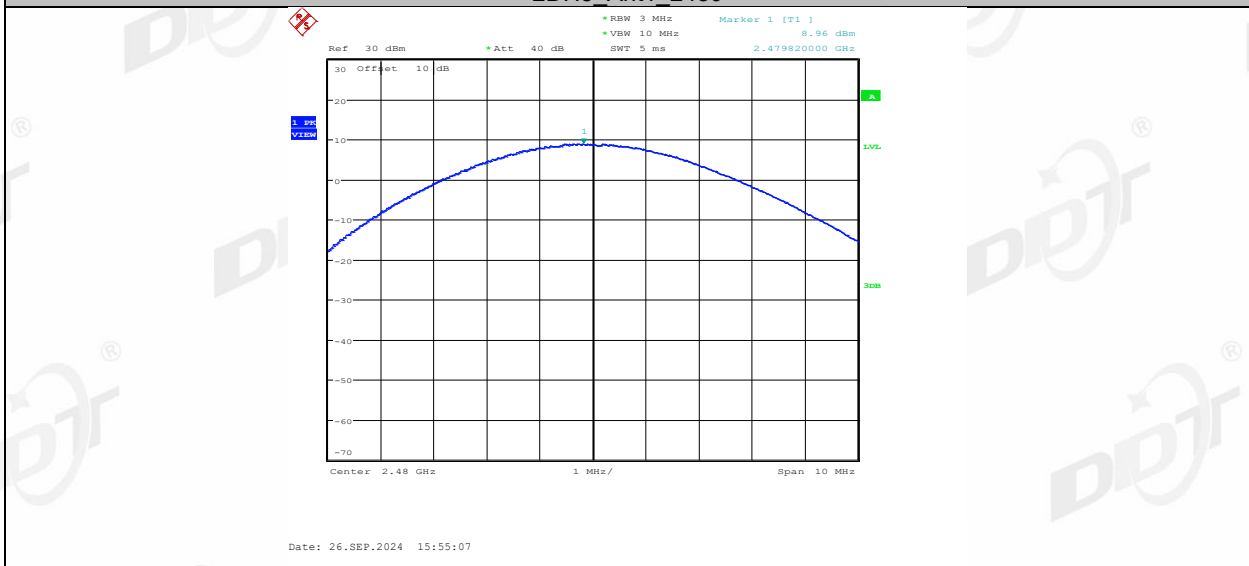
2DH5_Ant1_2402



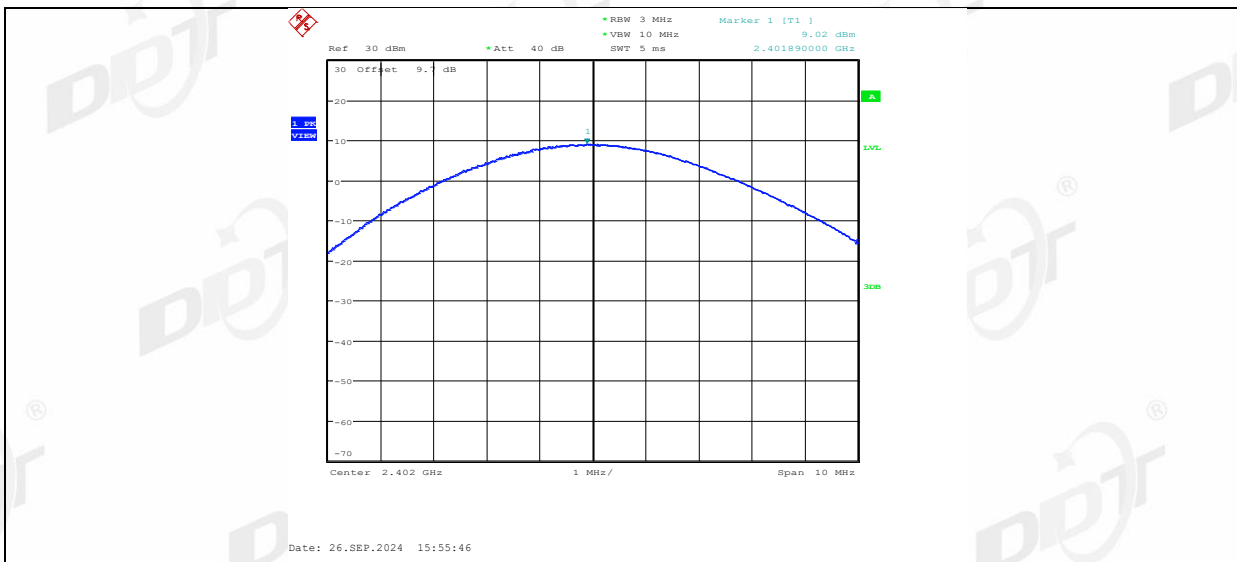
2DH5_Ant1_2441



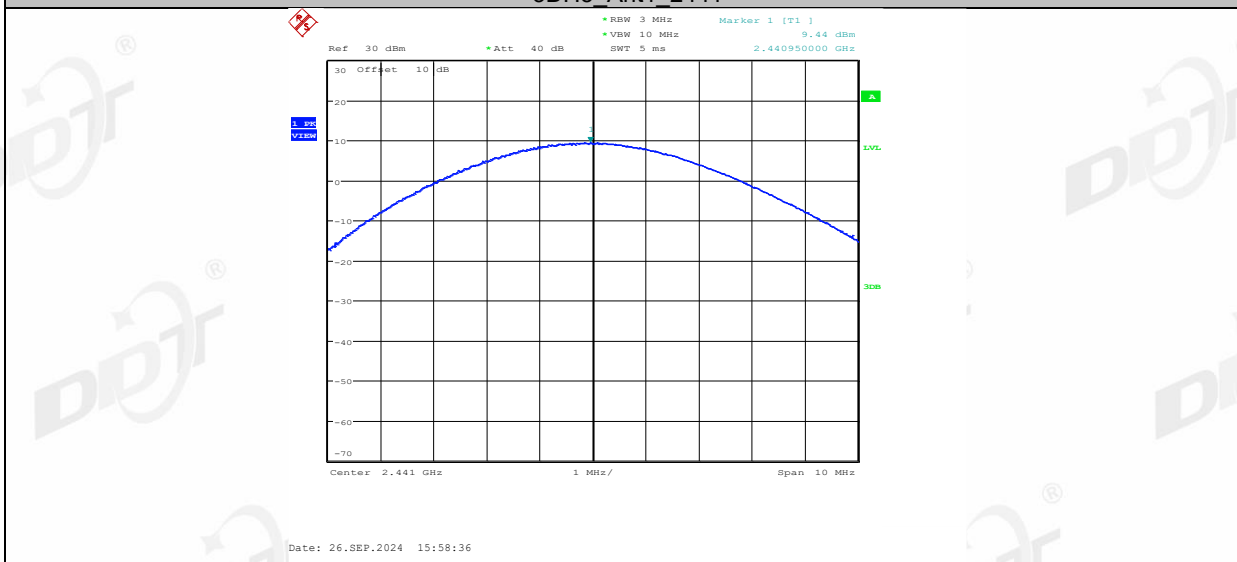
2DH5_Ant1_2480



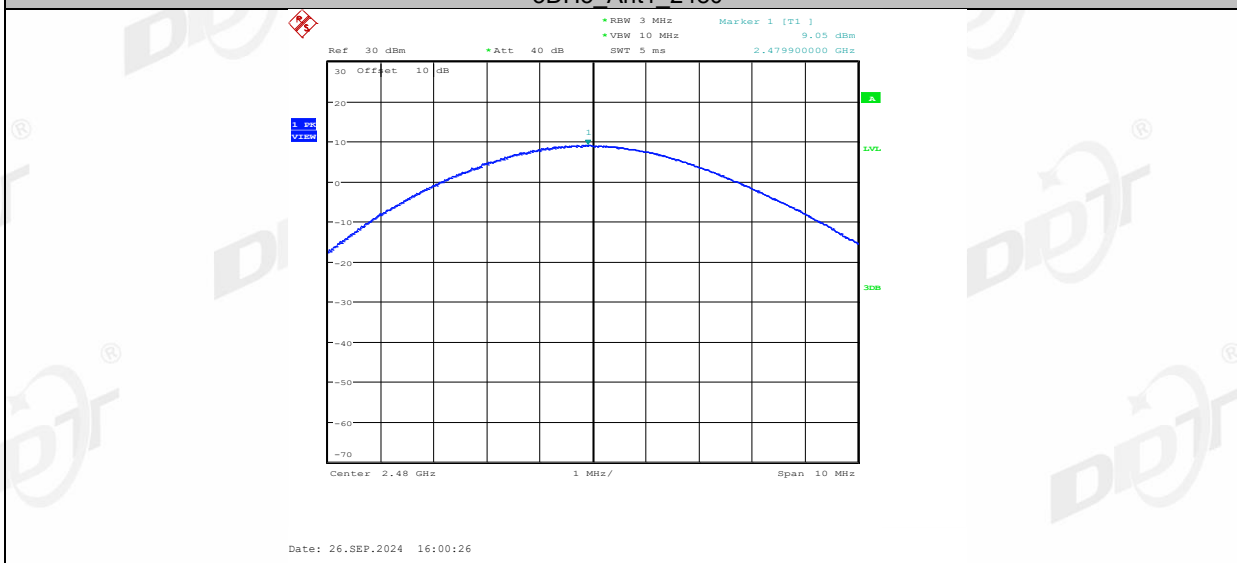
3DH5_Ant1_2402



3DH5_Ant1_2441

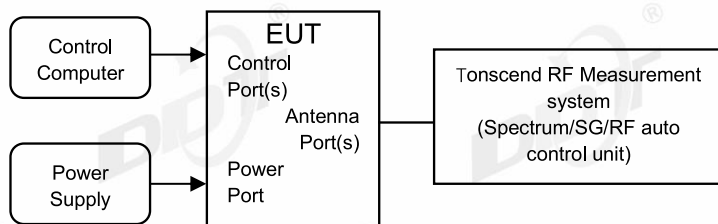


3DH5_Ant1_2480



7. Carrier Frequency Separation

7.1. Block diagram of test setup



7.2. Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.3. Test procedure

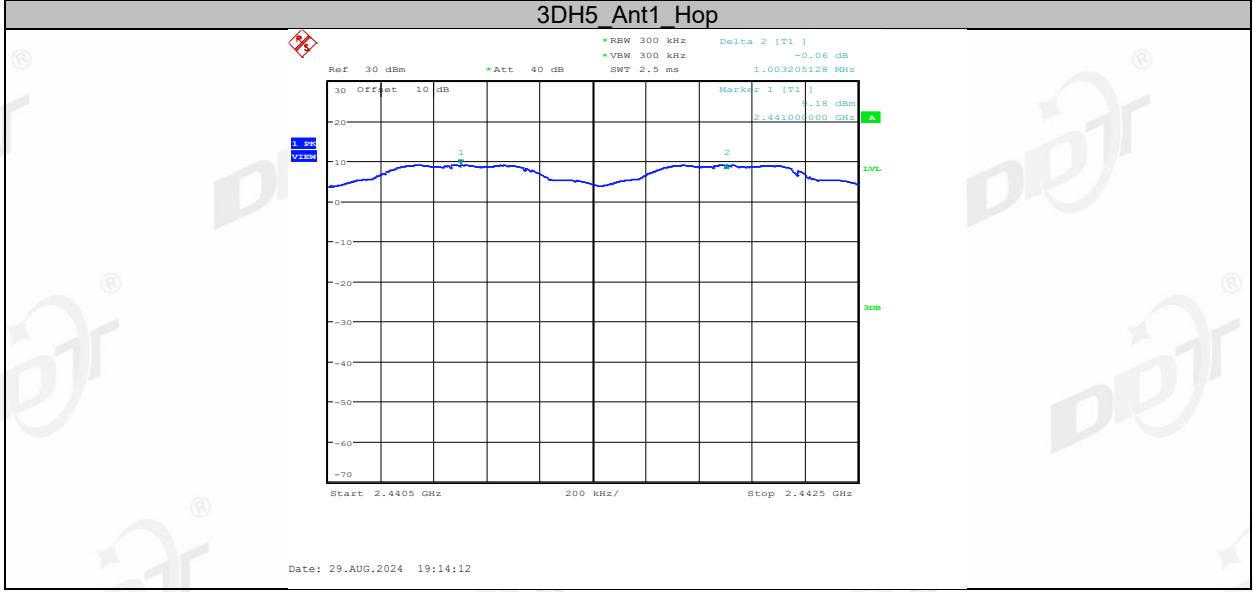
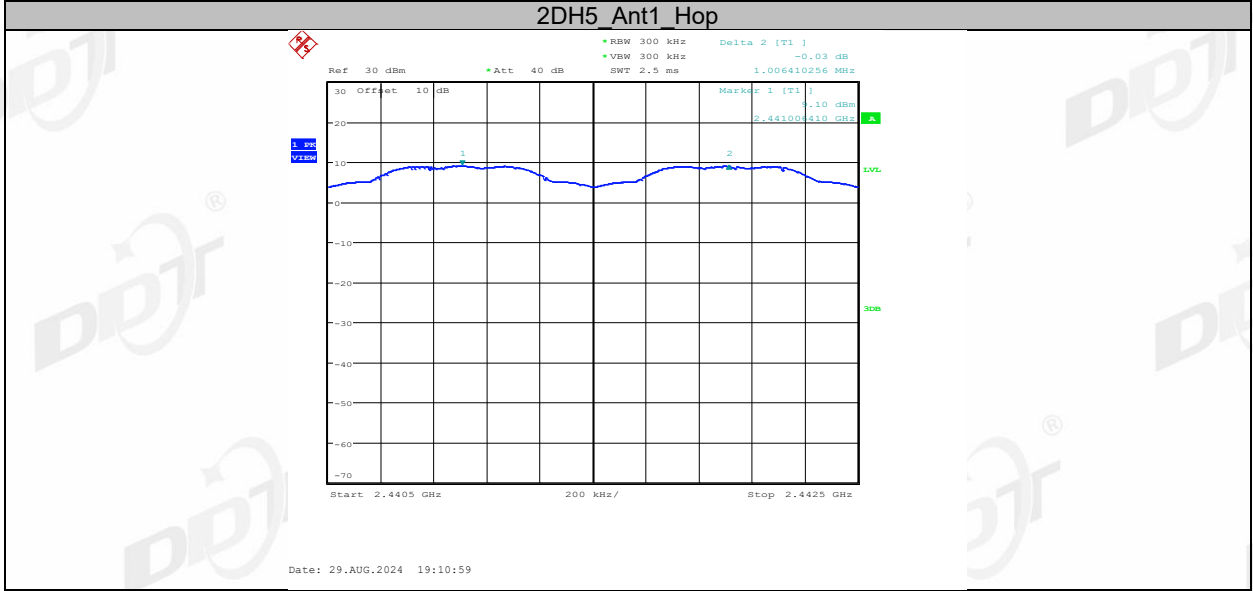
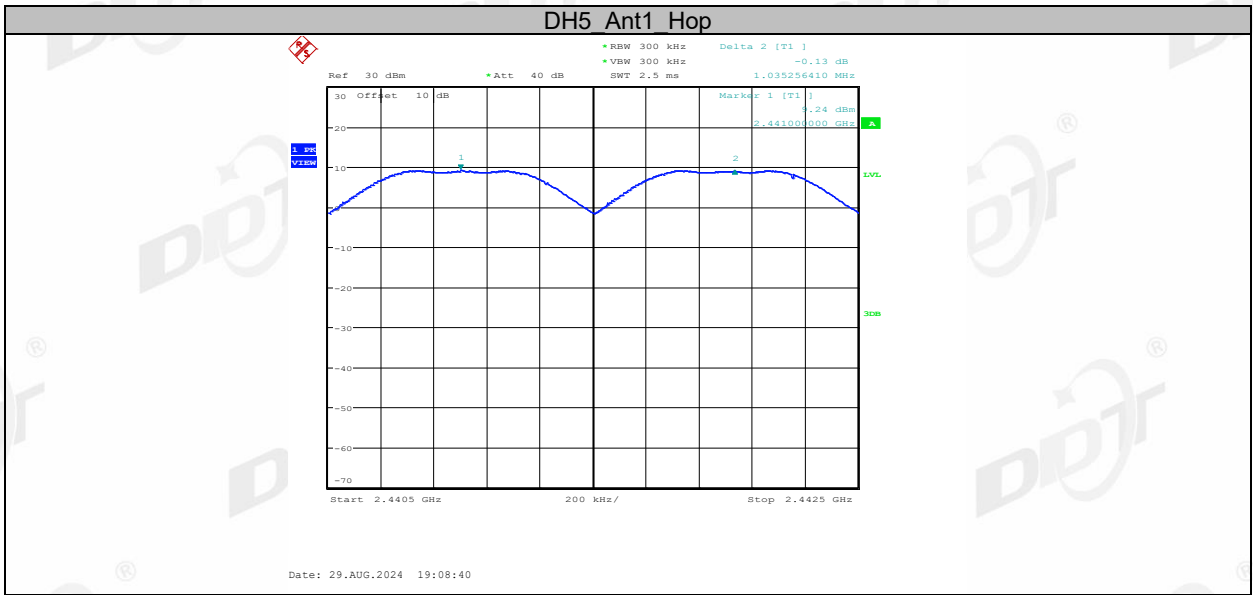
- (1) The test according to ANSI C63.10-2013 clause 7.8.2.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:
 - RBW: approximately 30% of the channel spacing
 - VBW: $VBW \geq RBW$.
 - Span: Wide enough to capture the peaks of two adjacent channels.
 - Detector Mode: Peak
 - Sweep time: Auto
 - Trace mode: Max hold
- (5) Use the marker-delta function to determine the separation between the peaks of the adjacent channels and record the results in the report.

7.4. Test result

| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.08.29 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

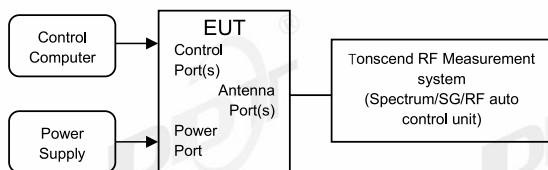
| Test Mode | Antenna | Frequency [MHz] | Result [MHz] | Limit [MHz] | Verdict |
|-----------|---------|-----------------|--------------|-------------|---------|
| DH5 | Ant1 | Hop | 1.035 | ≥0.950 | PASS |
| 2DH5 | Ant1 | Hop | 1.006 | ≥0.853 | PASS |
| 3DH5 | Ant1 | Hop | 1.003 | ≥0.807 | PASS |

7.5. Test graphs



8. Dwell Time

8.1. Block diagram of test setup



8.2. Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

8.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 7.8.4.
- (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:

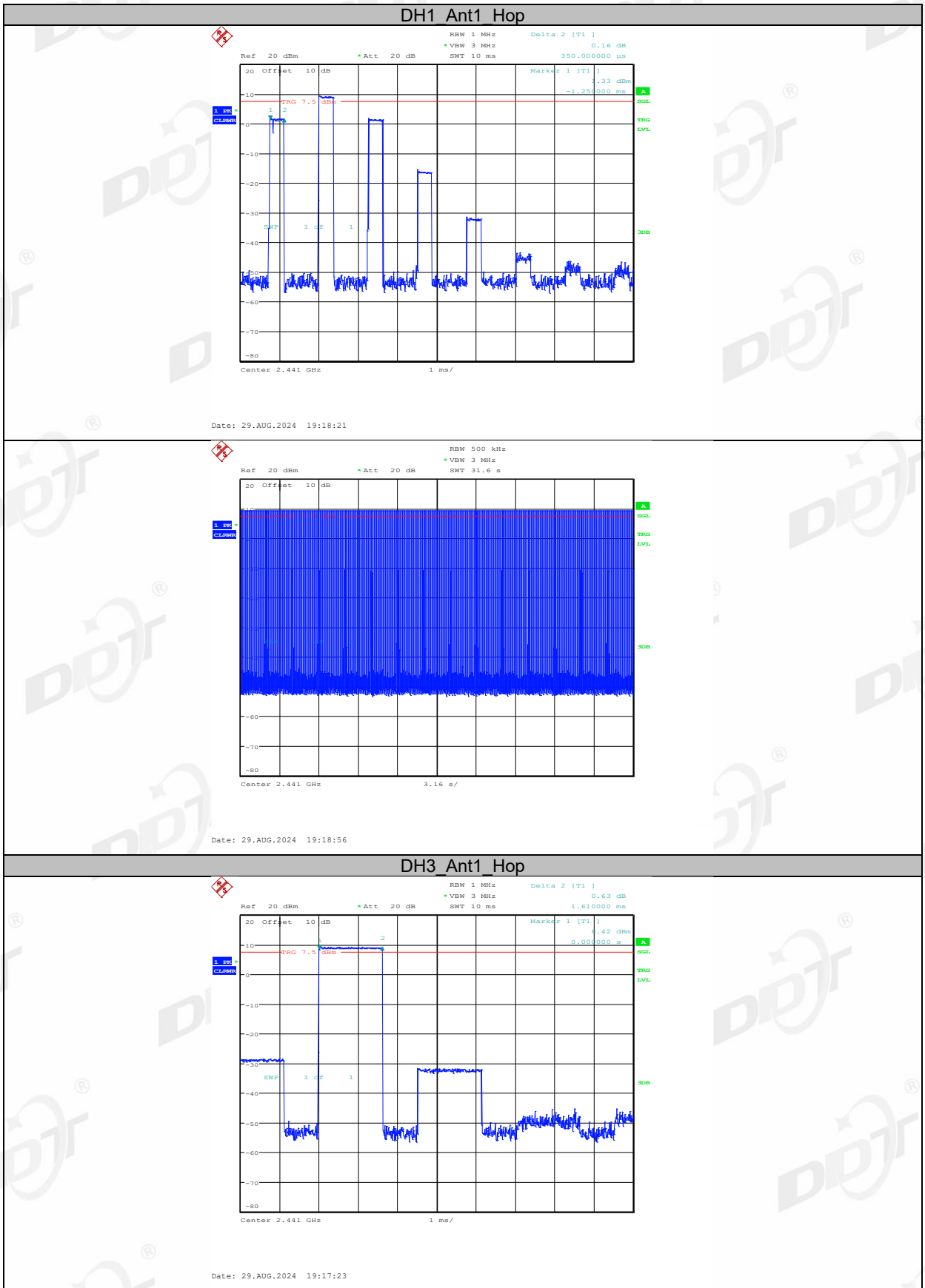
| | |
|----------------|--|
| RBW: | ≤ channel spacing and where possible RBW should be set $\gg 1 / T$ |
| VBW: | $VBW \geq RBW$. |
| Span: | Zero span, centered on a hopping channel. |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode: | Clear Write. |
- (5) The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$
- (6) Measure the hopping number and on time of each pulse with spectrum analyzer in zero span set, and calculate dwell time with formula $\text{Dwell time} = \text{total hops} \times \text{pulse's on time}$.
- (7) Measure and record the results in the report.

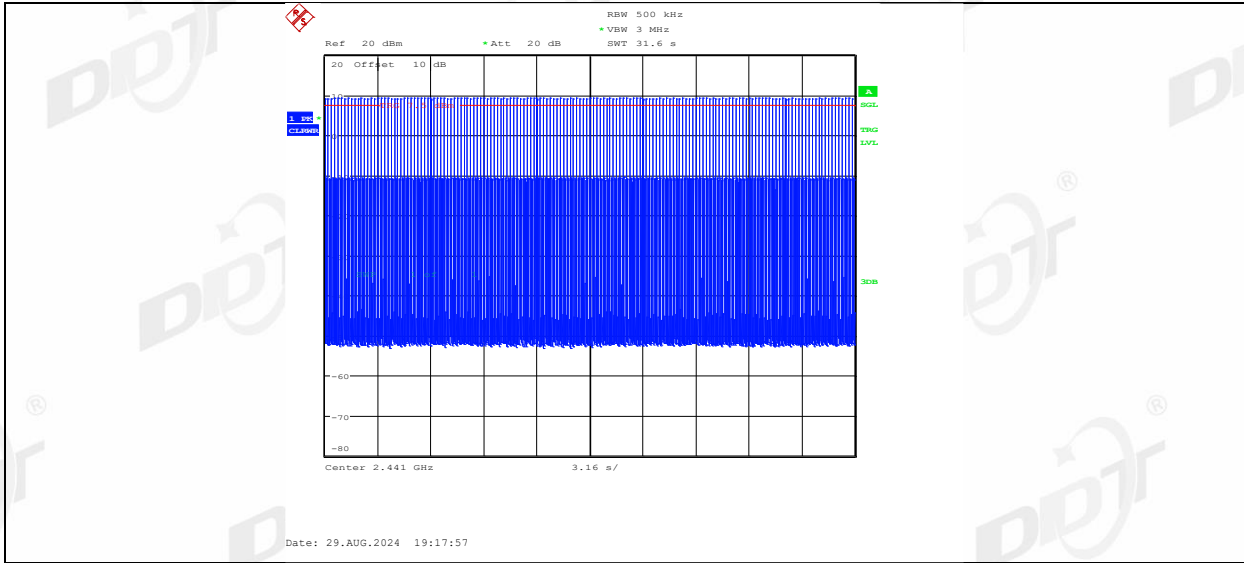
8.4. Test result

| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.08.29 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

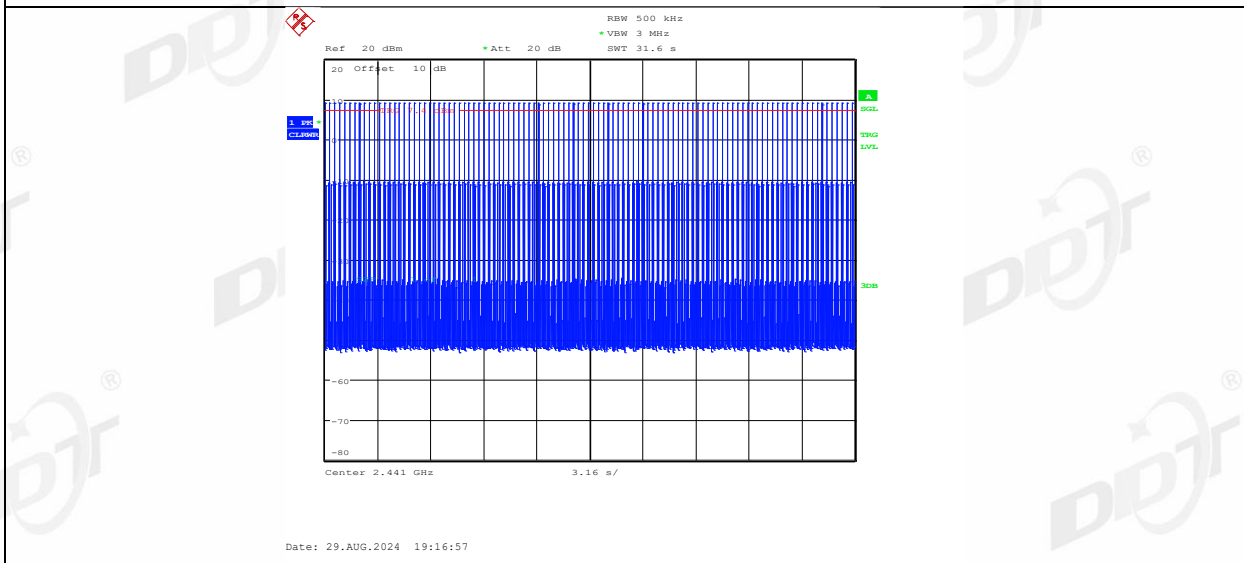
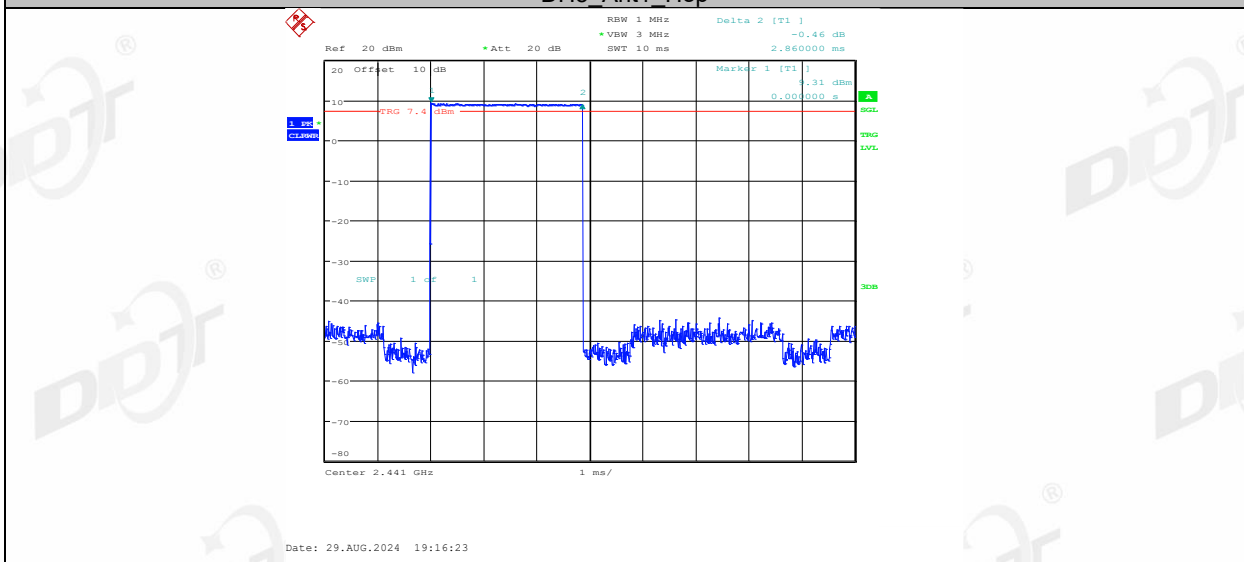
| Test Mode | Antenna | Frequency [MHz] | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit[s] | Verdict |
|-----------|---------|-----------------|-----------------|-----------------|-----------|----------|---------|
| DH1 | Ant1 | Hop | 0.350 | 320 | 0.112 | ≤0.4 | PASS |
| DH3 | Ant1 | Hop | 1.610 | 160 | 0.258 | ≤0.4 | PASS |
| DH5 | Ant1 | Hop | 2.860 | 107 | 0.306 | ≤0.4 | PASS |
| 2DH1 | Ant1 | Hop | 0.360 | 320 | 0.115 | ≤0.4 | PASS |
| 2DH3 | Ant1 | Hop | 1.620 | 166 | 0.269 | ≤0.4 | PASS |
| 2DH5 | Ant1 | Hop | 2.870 | 107 | 0.307 | ≤0.4 | PASS |
| 3DH1 | Ant1 | Hop | 0.370 | 320 | 0.118 | ≤0.4 | PASS |
| 3DH3 | Ant1 | Hop | 1.620 | 160 | 0.259 | ≤0.4 | PASS |
| 3DH5 | Ant1 | Hop | 2.880 | 107 | 0.308 | ≤0.4 | PASS |

8.5. Test graphs

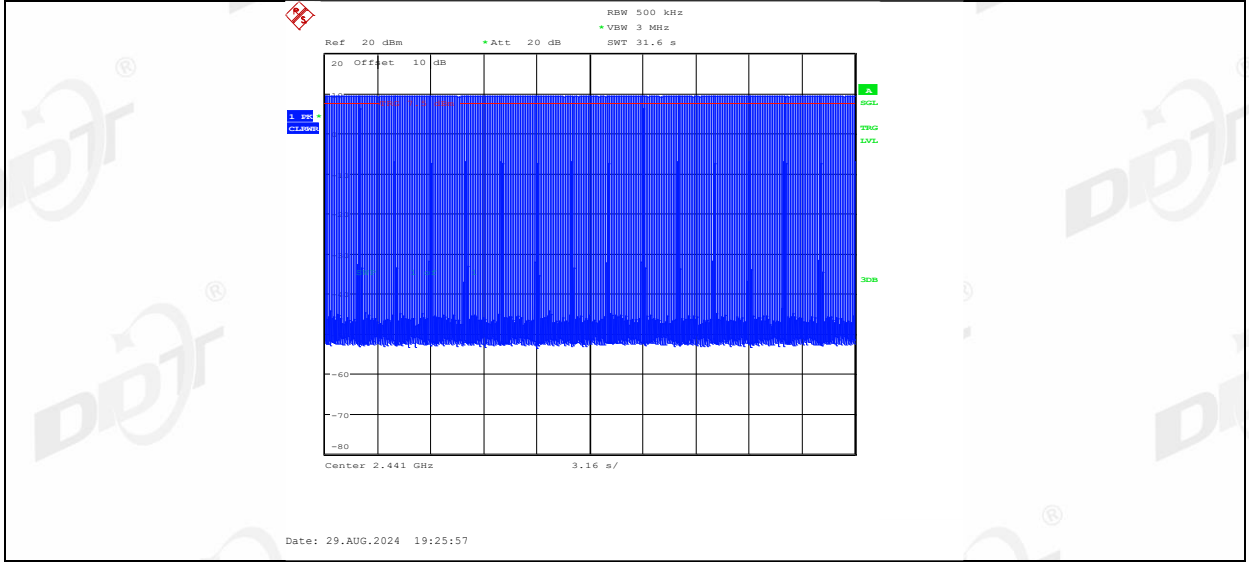
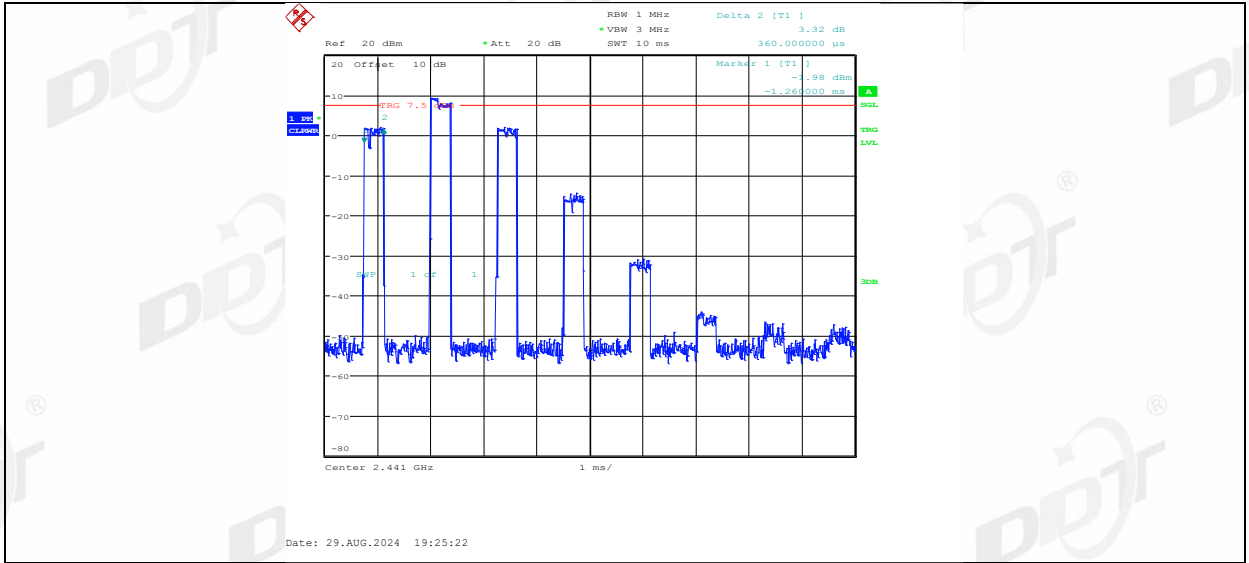




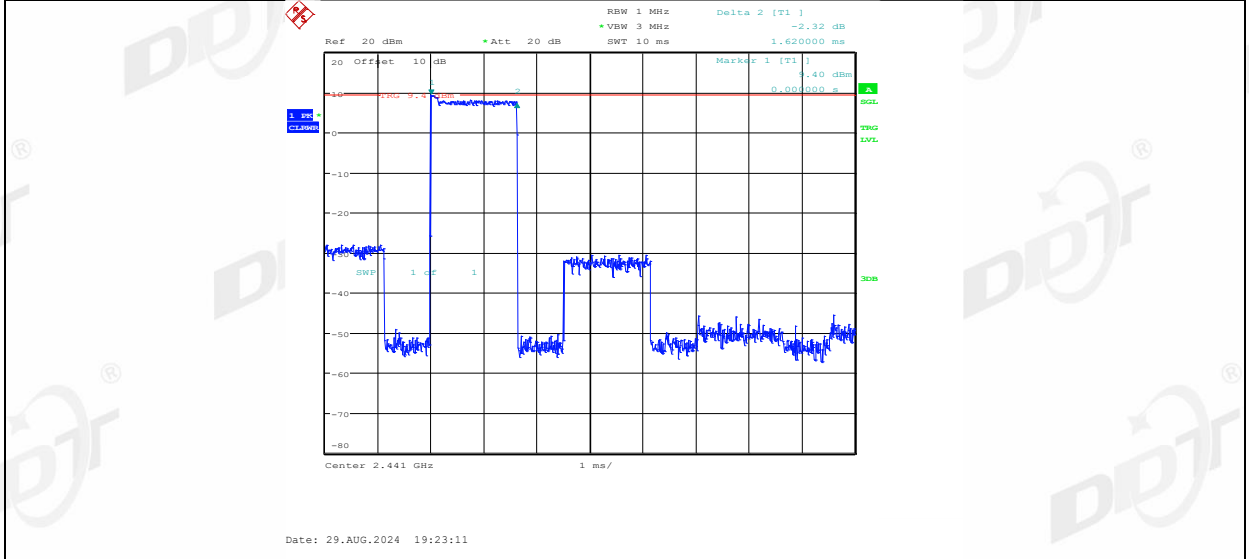
DH5_Ant1_Hop

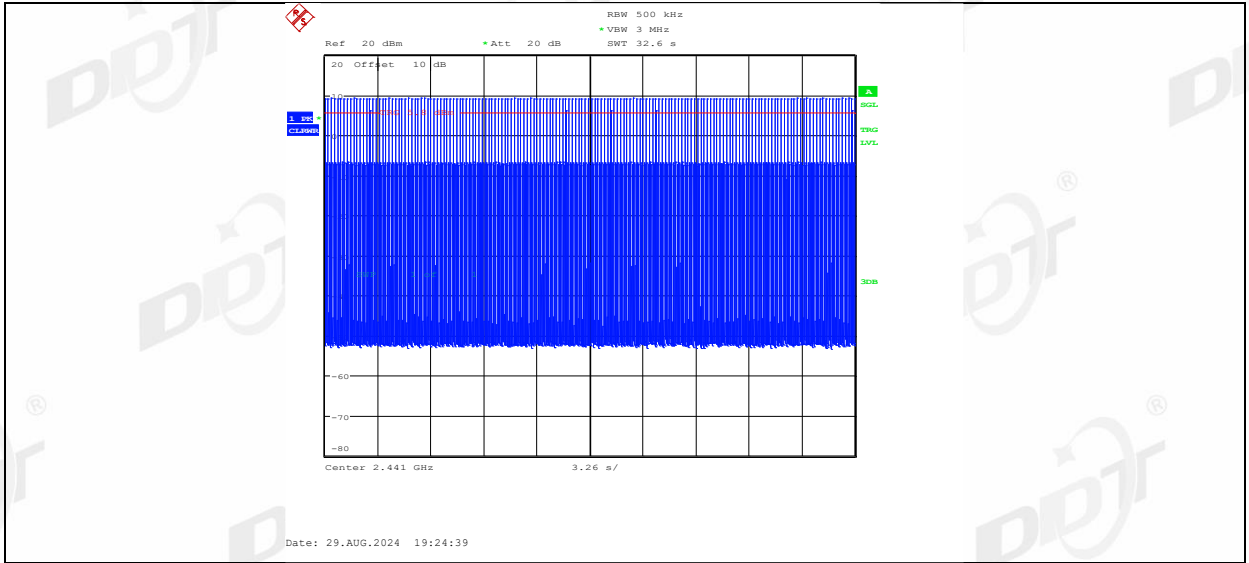


2DH1_Ant1_Hop

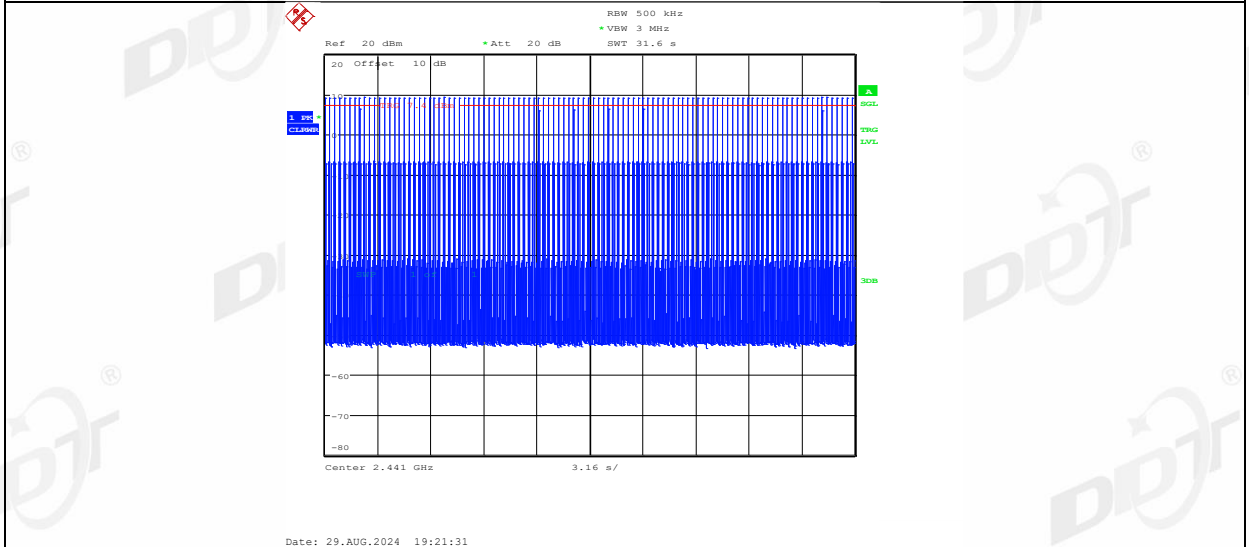
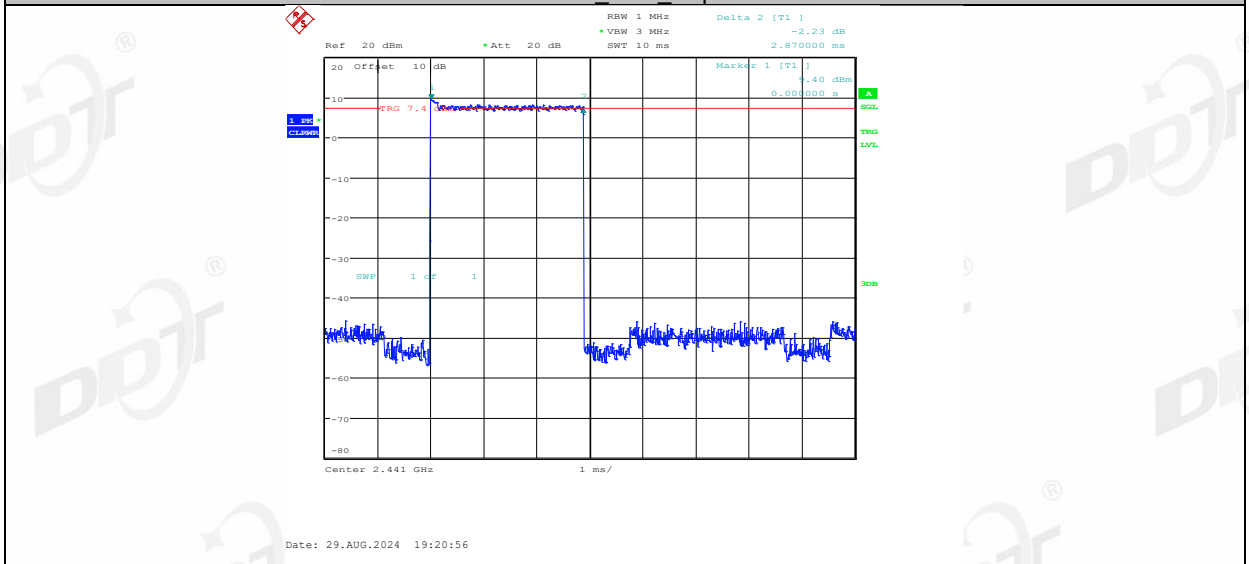


2DH3_Ant1_Hop

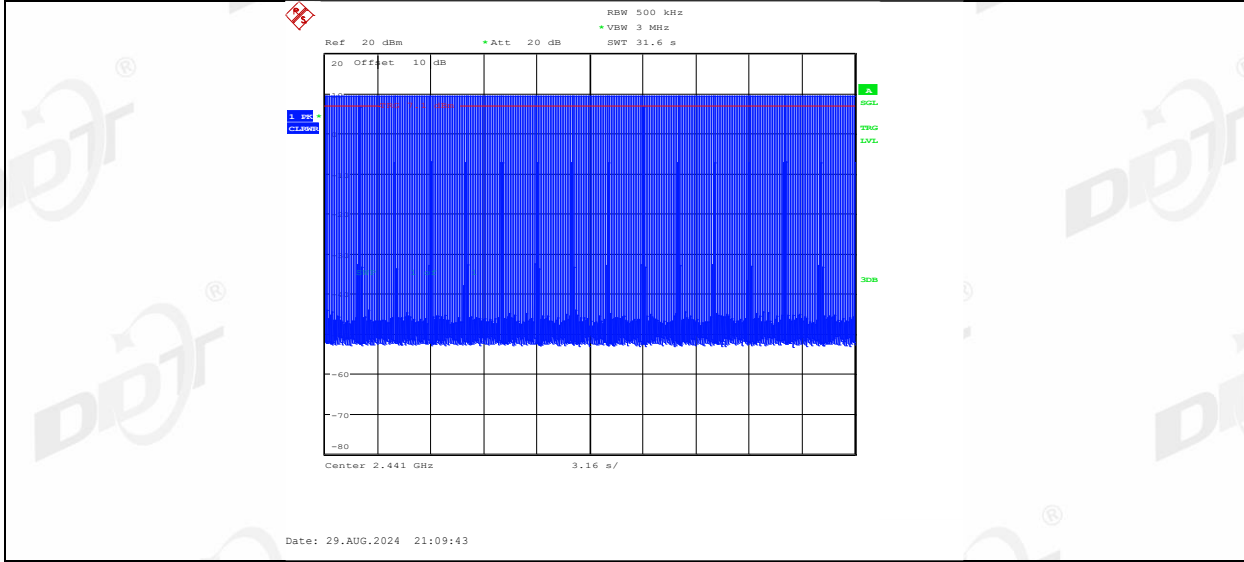
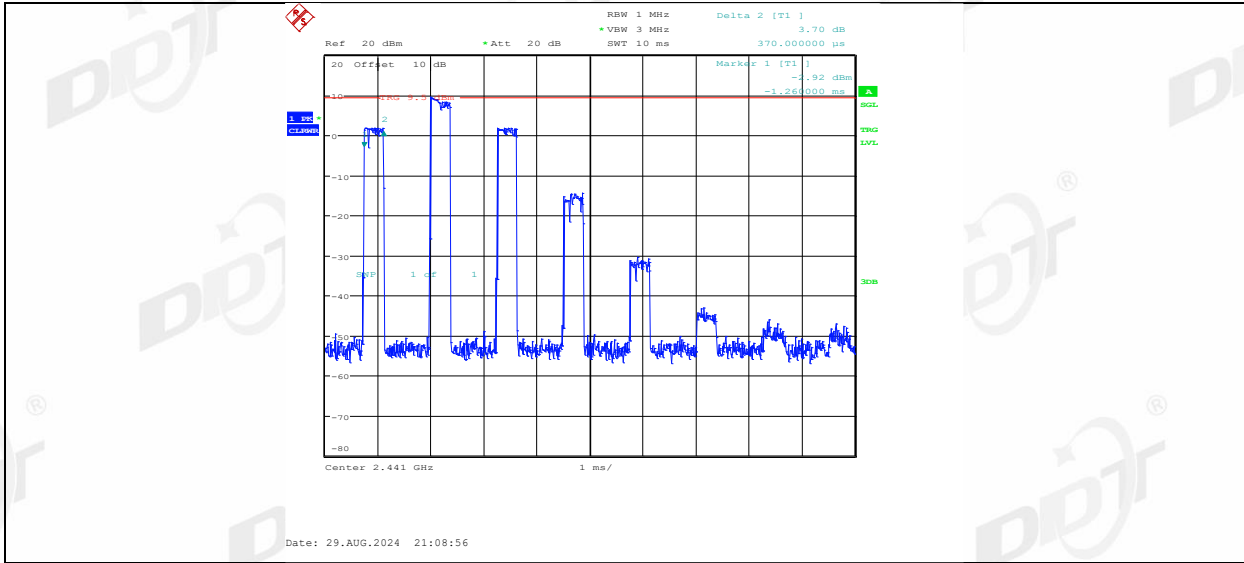




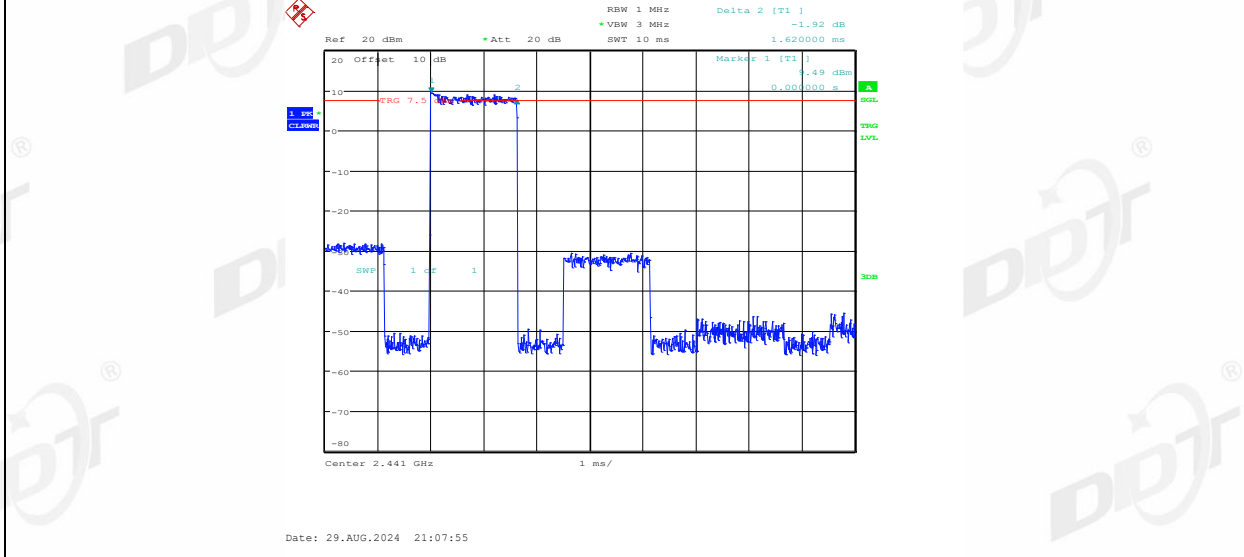
2DH5_Ant1_Hop

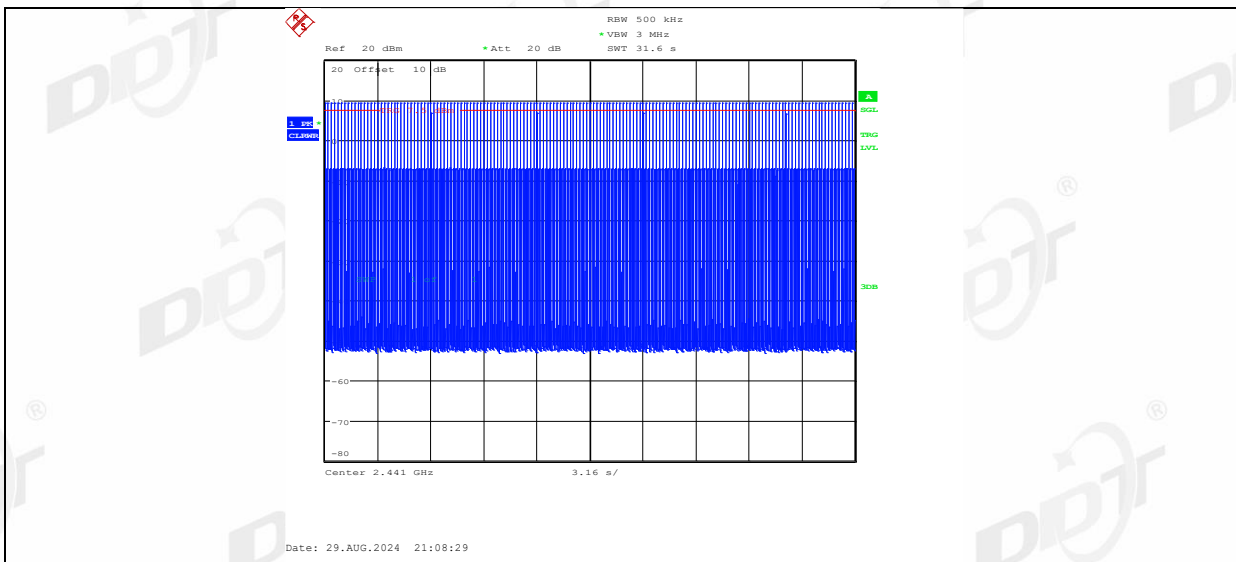


3DH1_Ant1_Hop

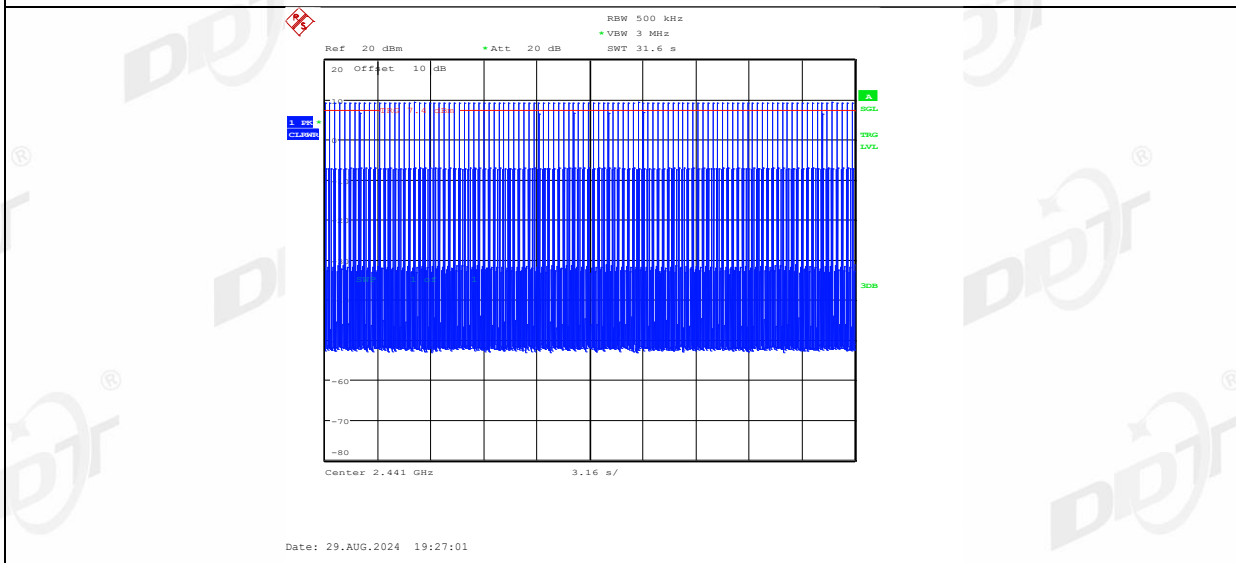
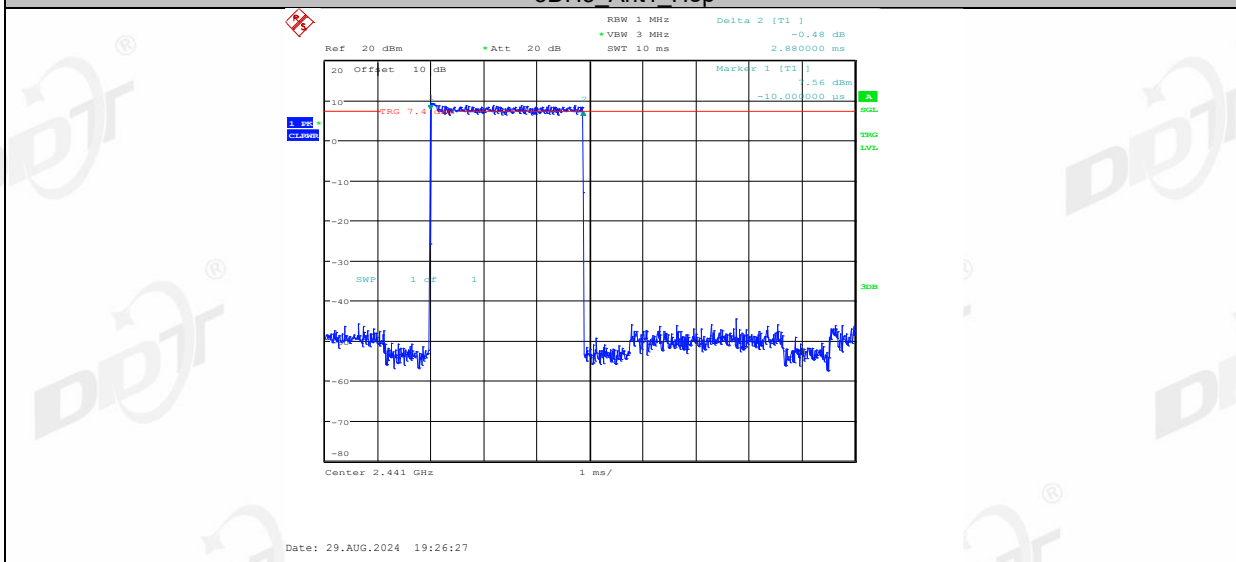


3DH3_Ant1_Hop



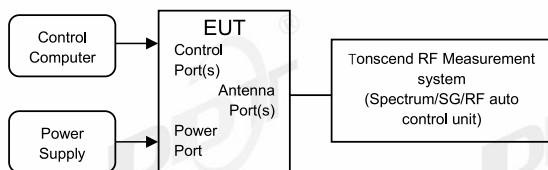


3DH5_Ant1_Hop



9. Number of Hopping Channel

9.1. Block diagram of test setup



9.2. Limits

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

9.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 7.8.3.
- (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:

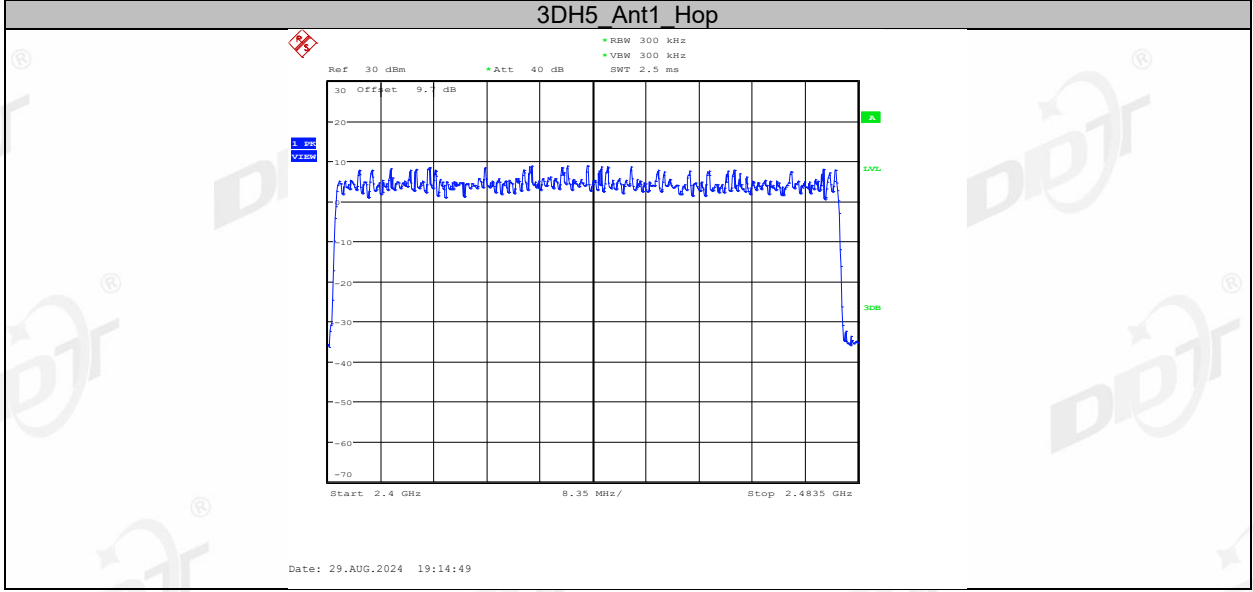
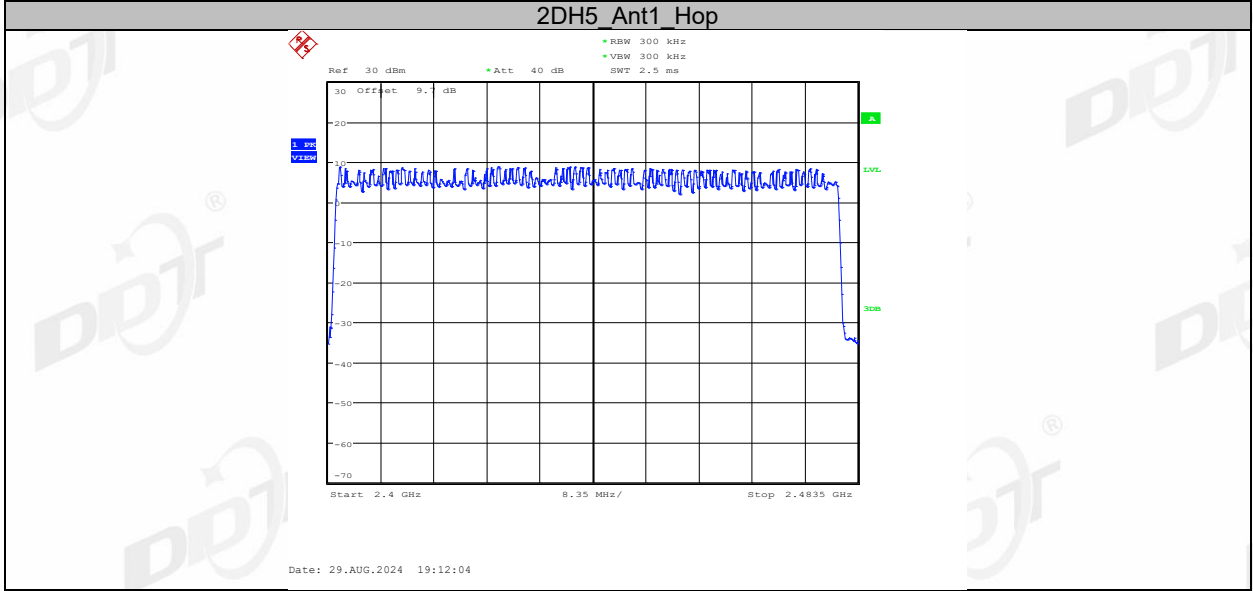
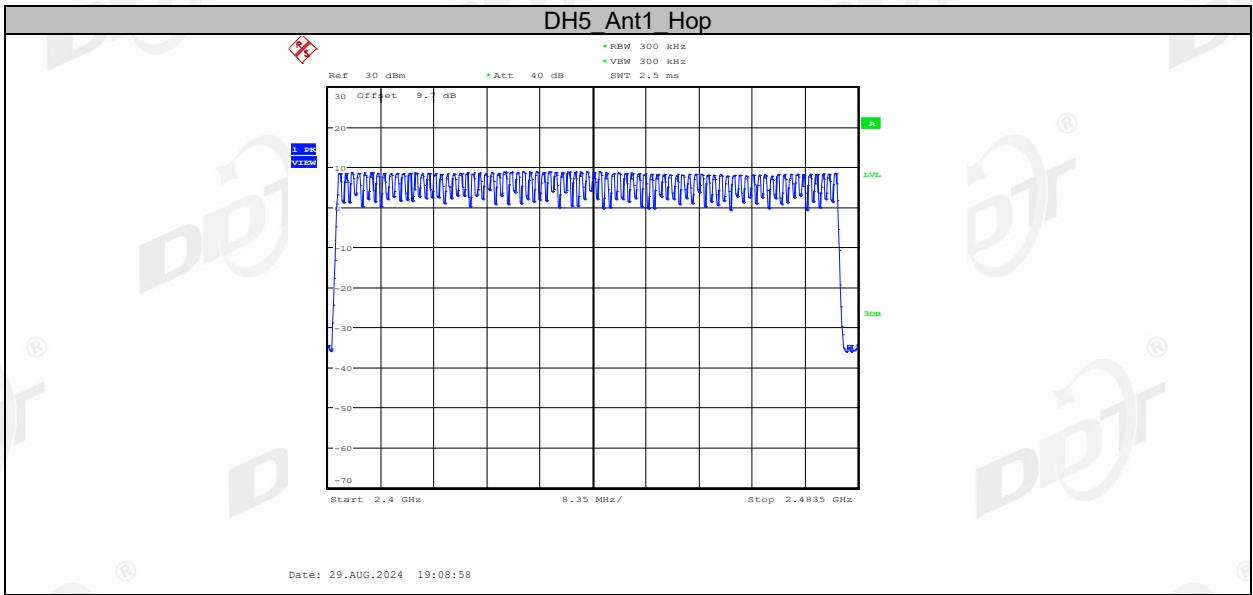
| | |
|----------------|---|
| RBW: | RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. |
| VBW: | $VBW \geq RBW$. |
| Span: | The frequency band of operation |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode: | Max hold |
- (5) Measure the hopping number and record the results in the report.
- (6) Measure and record the results in the report.

9.4. Test result

| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.08.29 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

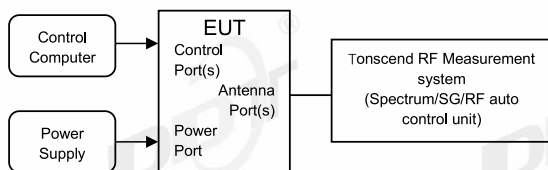
| Test Mode | Antenna | Frequency [MHz] | Result [Num] | Limit [Num] | Verdict |
|-----------|---------|-----------------|--------------|-------------|---------|
| DH5 | Ant1 | Hop | 79 | ≥15 | PASS |
| 2DH5 | Ant1 | Hop | 79 | ≥15 | PASS |
| 3DH5 | Ant1 | Hop | 79 | ≥15 | PASS |

9.5. Test graphs



10. Band Edge Compliance (Conducted Method)

10.1. Block diagram of test setup



10.2. Limit

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

10.3. Test procedure

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

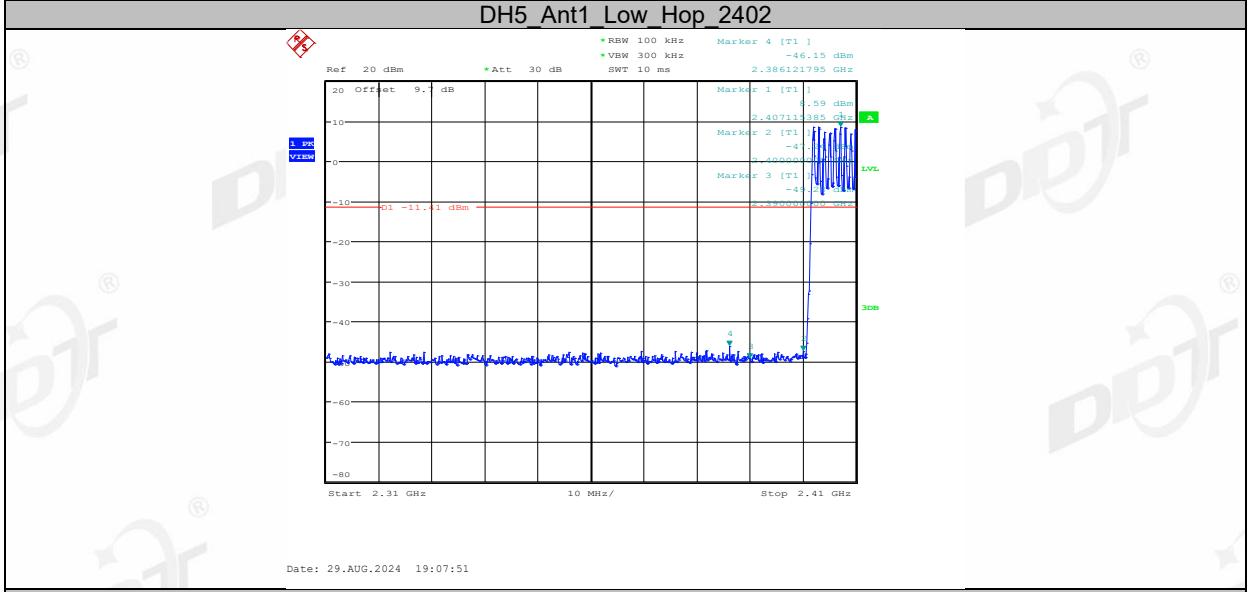
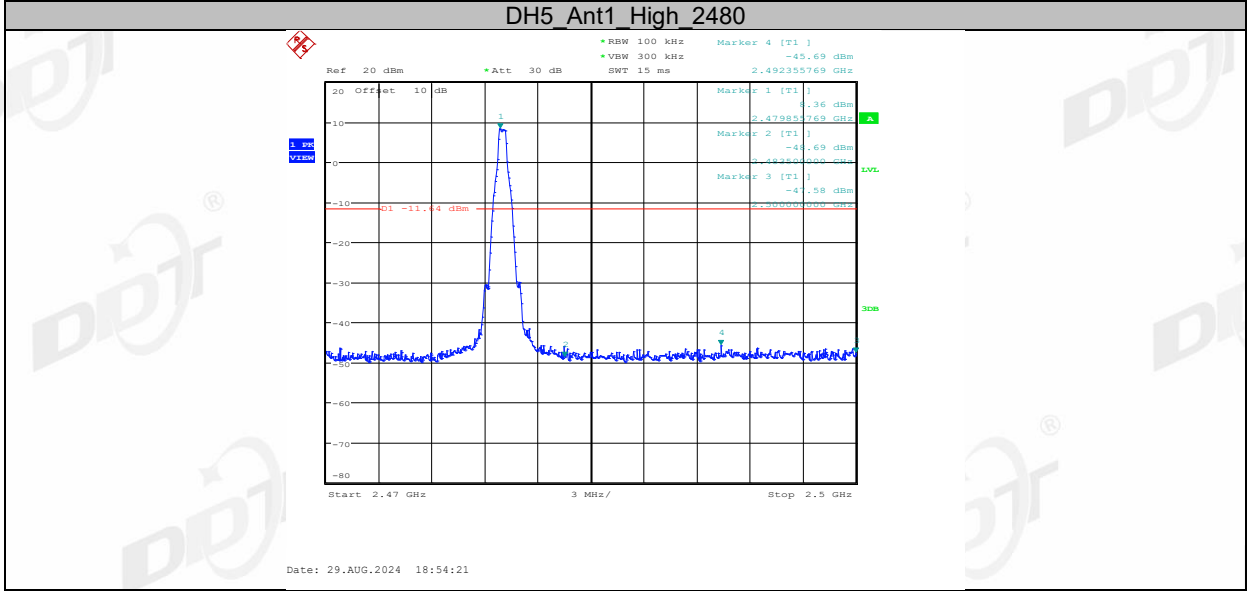
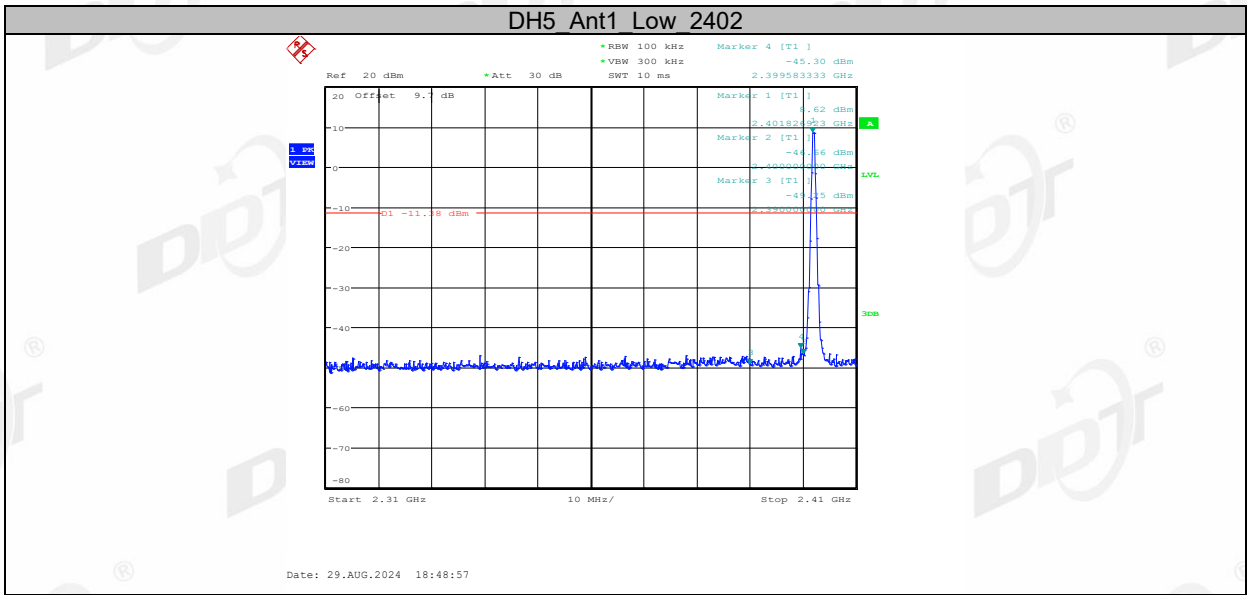
| | |
|----------------|--|
| RBW: | 100 kHz |
| VBW: | 300 kHz |
| Span | Encompass frequency range to be measured |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode | Max hold |
- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

10.4. Test result

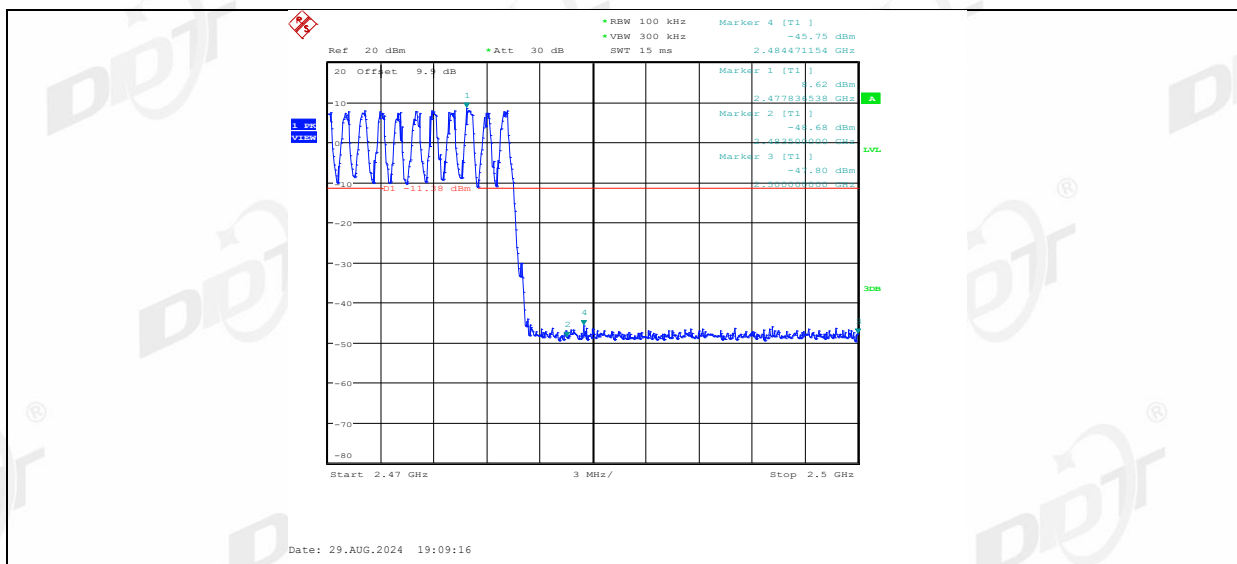
| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.08.29 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

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

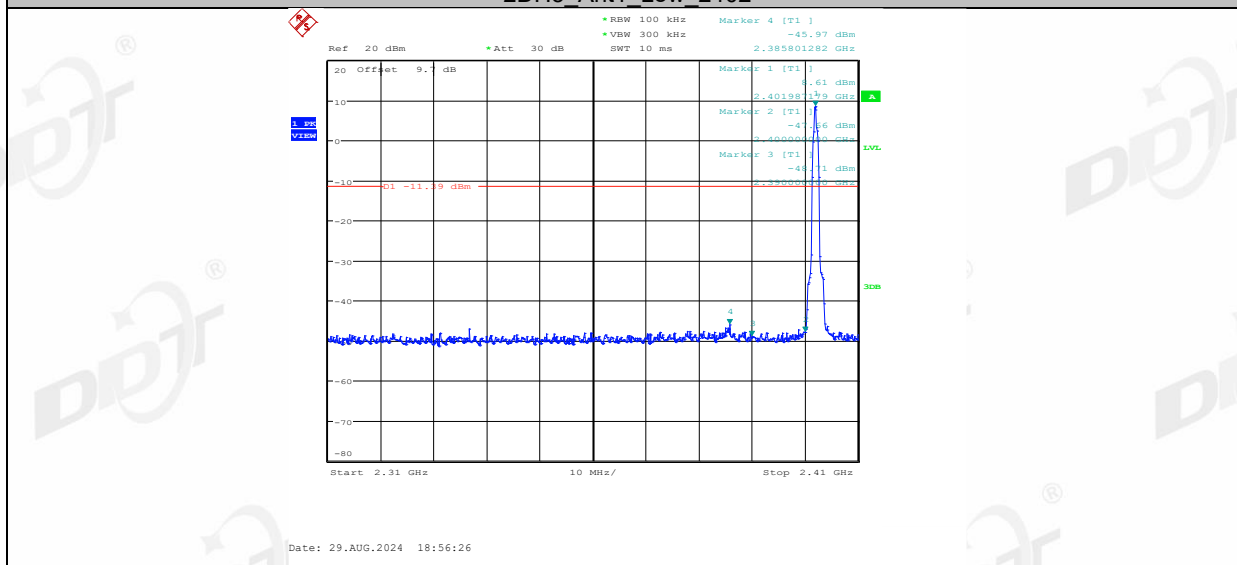
10.5. Test graphs



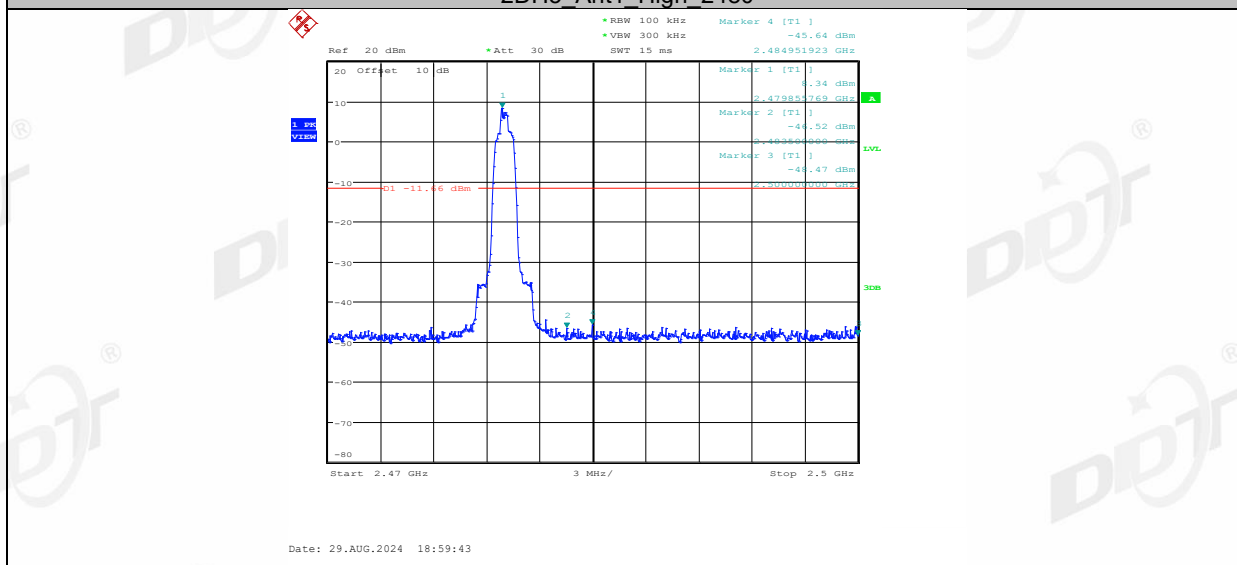
DH5 Ant1 High Hop 2480



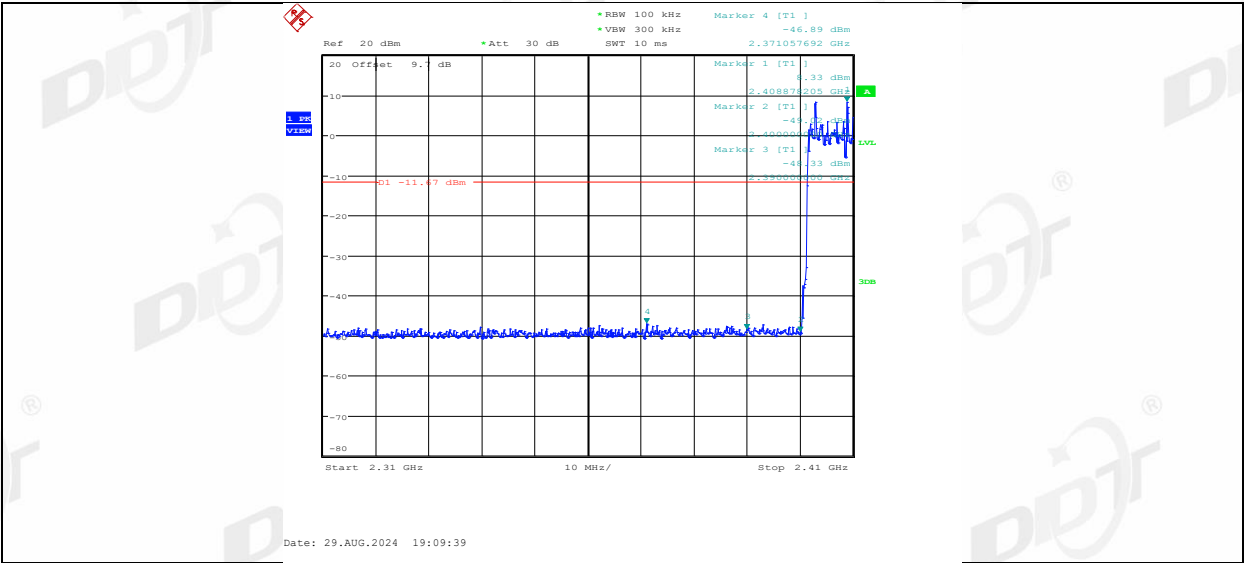
2DH5_Ant1_Low_2402



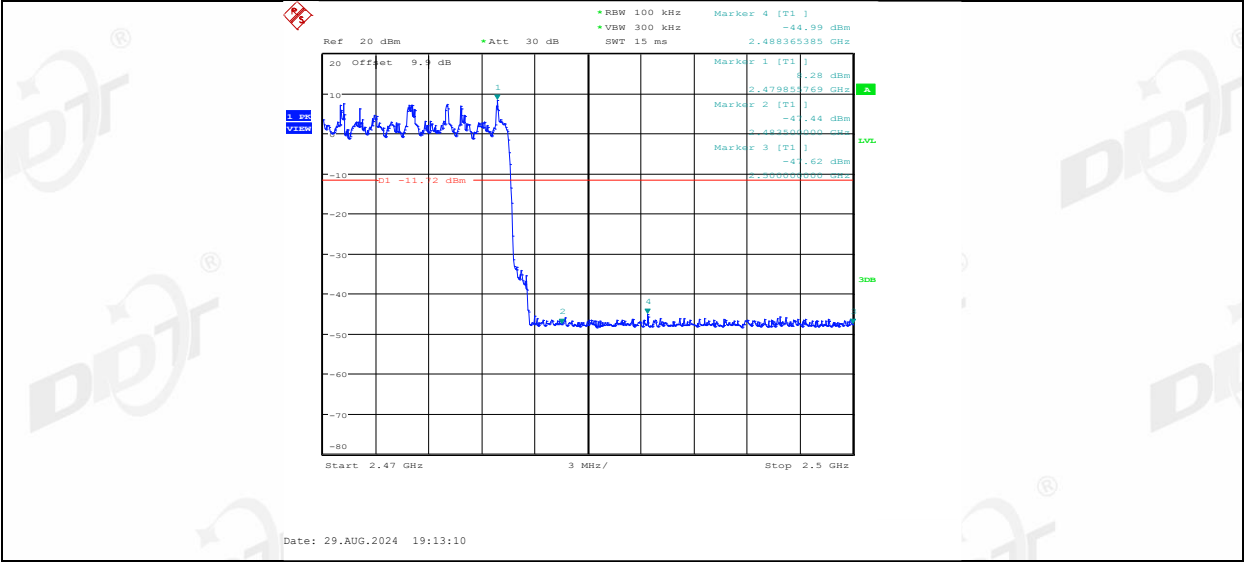
2DH5_Ant1_High_2480



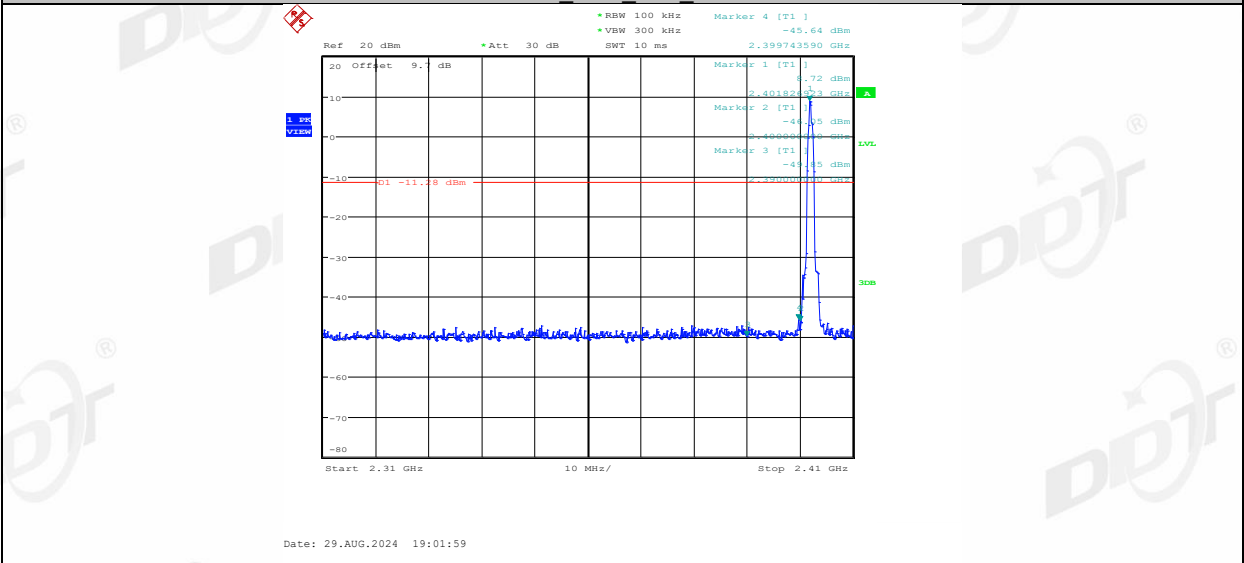
2DH5_Ant1_Low_Hop_2402



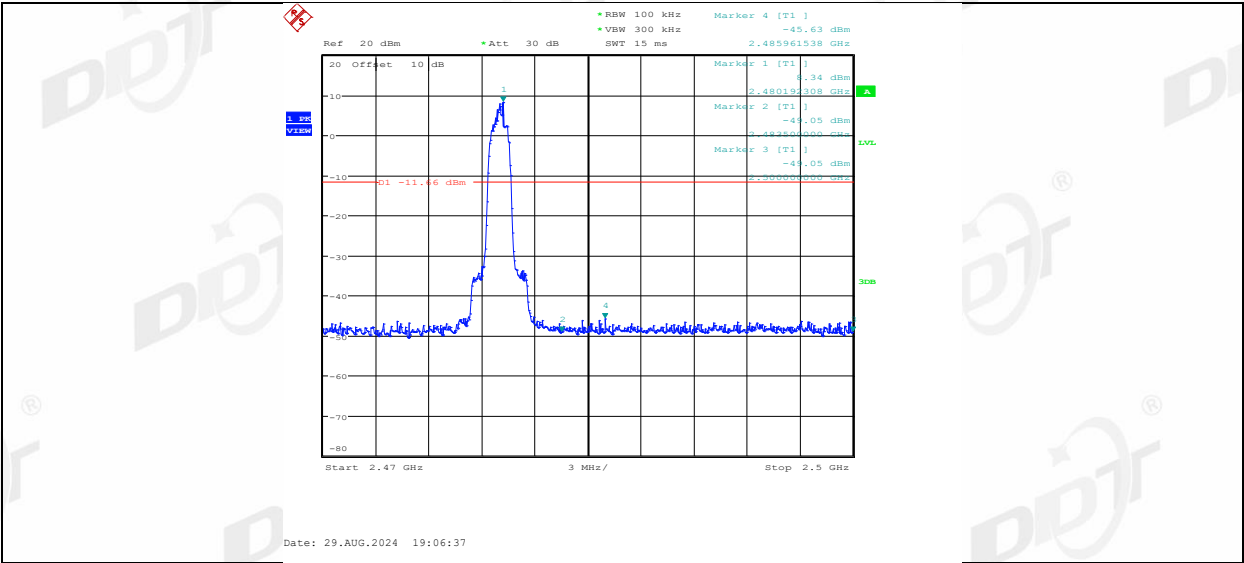
2DH5_Ant1_High_Hop_2480



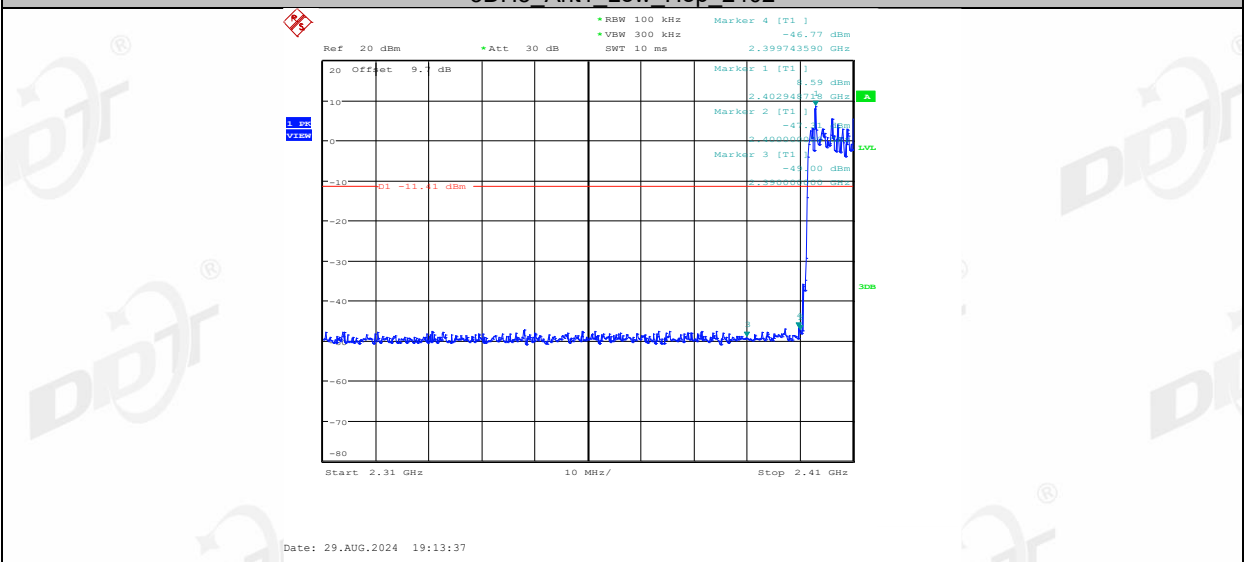
3DH5_Ant1_Low_2402



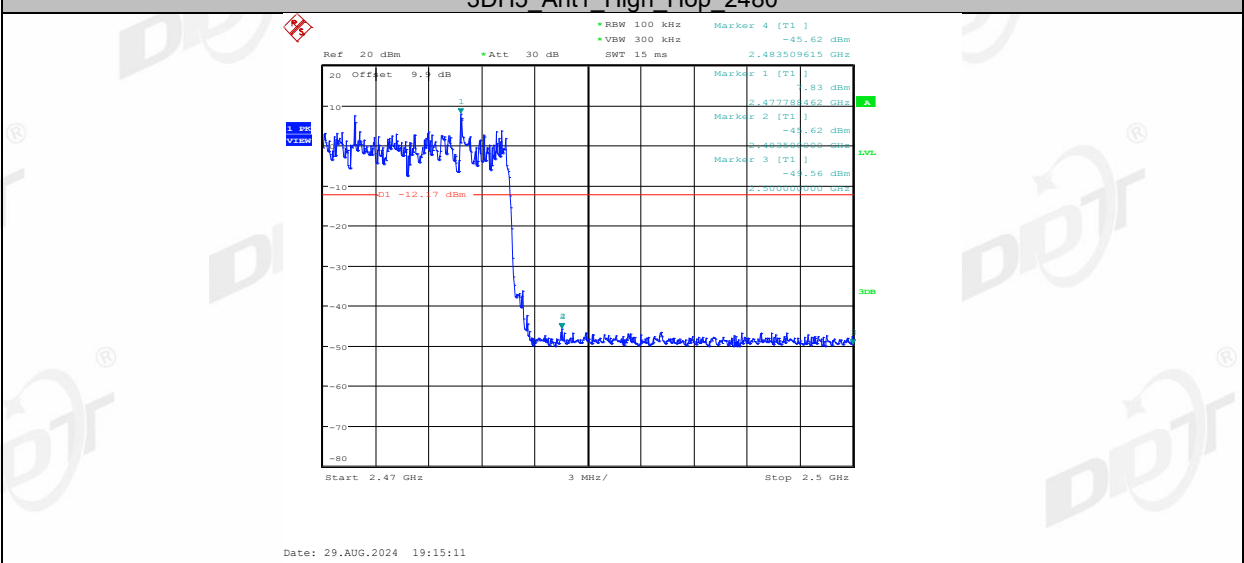
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

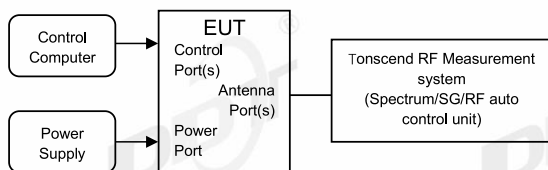


3DH5_Ant1_High_Hop_2480



11. RF Conducted Spurious Emissions

11.1. Block diagram of test setup



11.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

11.3. 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 | $\geq \text{Span/RBW}$ |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode | Max hold |

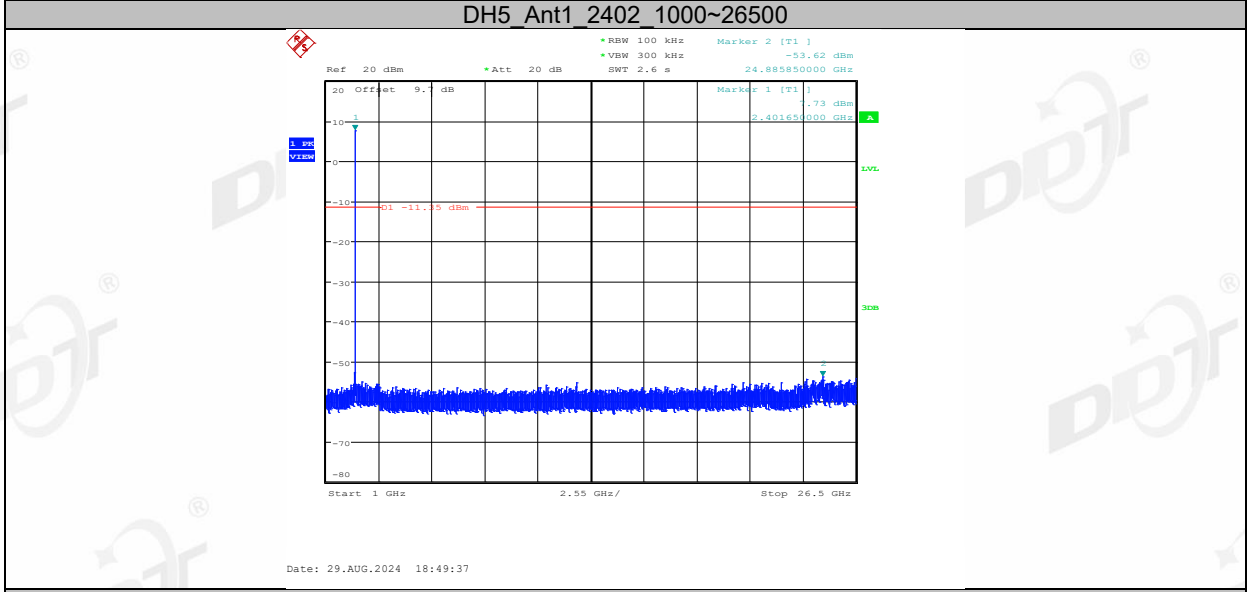
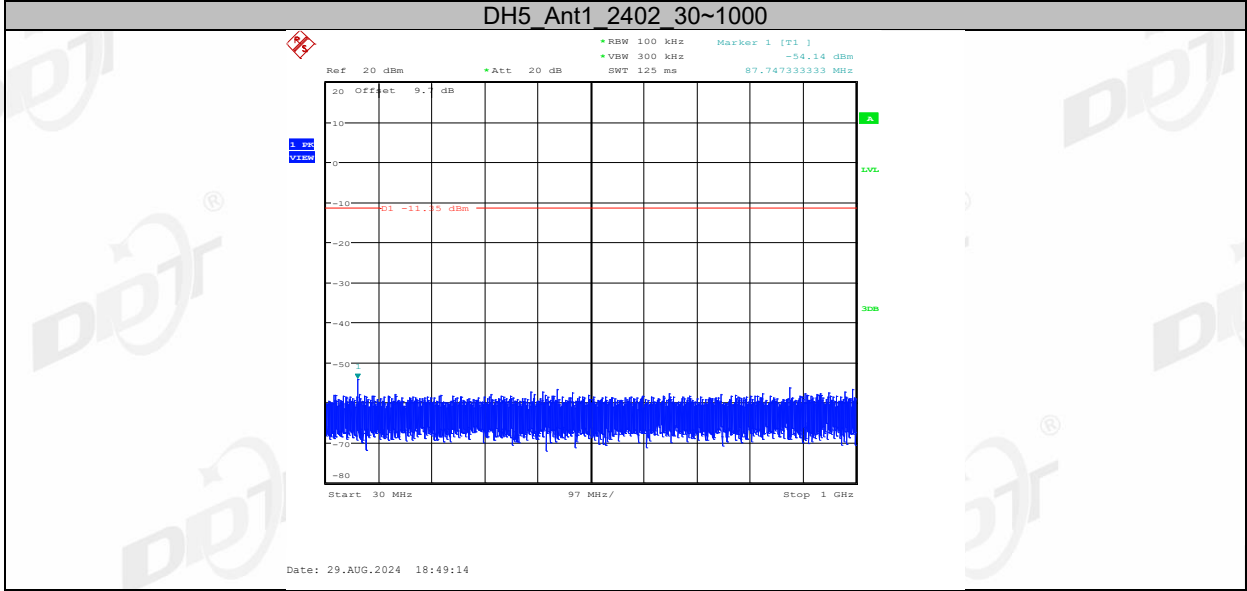
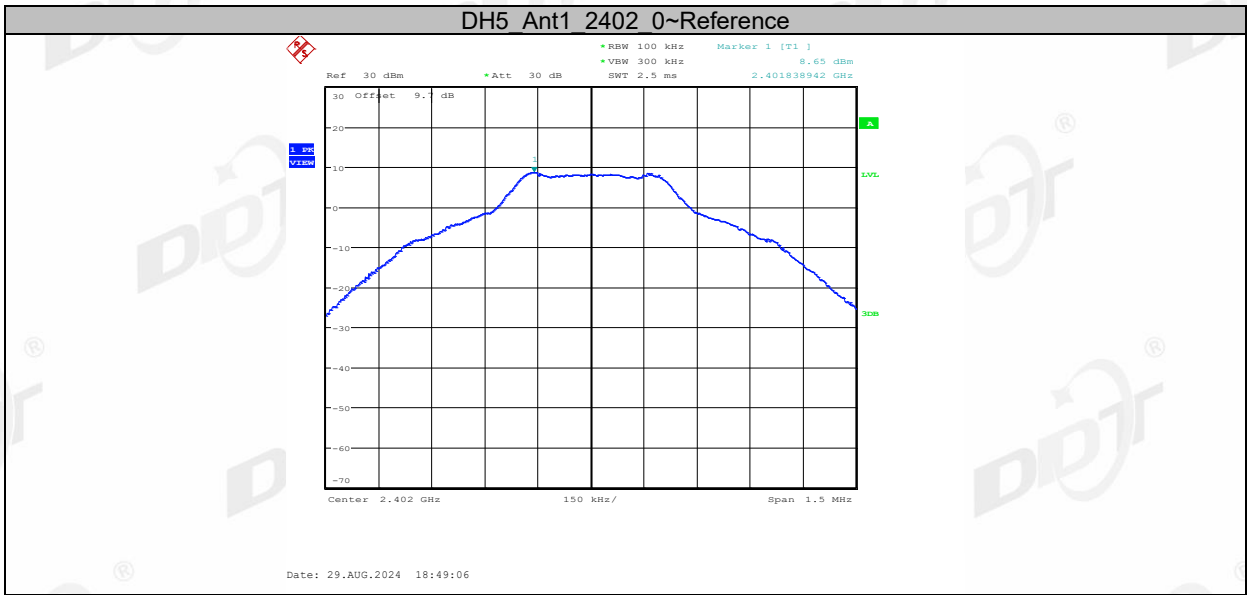
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

11.4. Test result

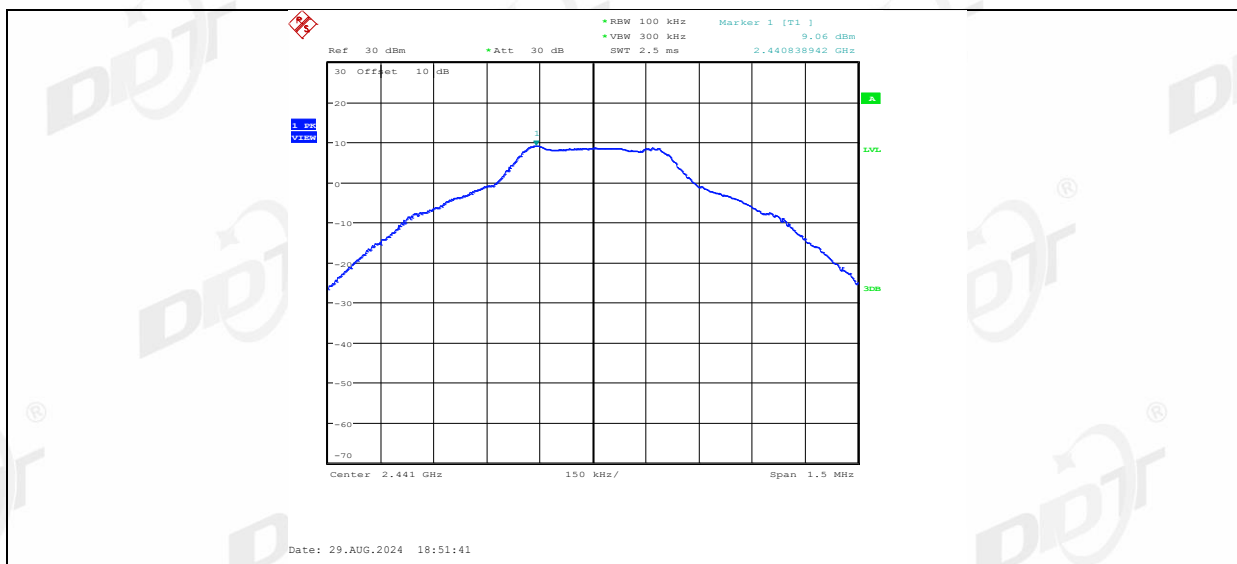
| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.08.29 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

| Mode | Freq. (MHz) | Verdict |
|----------------|------------------|---------|
| GFSK | Hopping off 2402 | Pass |
| | Hopping off 2441 | Pass |
| | Hopping off 2480 | Pass |
| $\pi/4$ -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 |

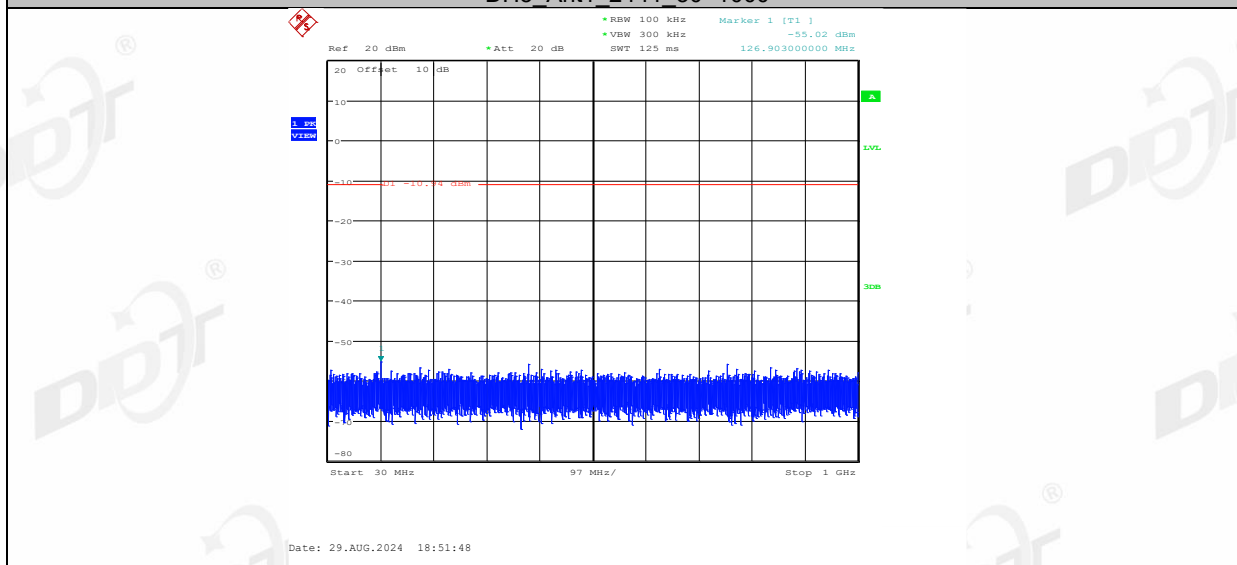
11.5. Test graphs



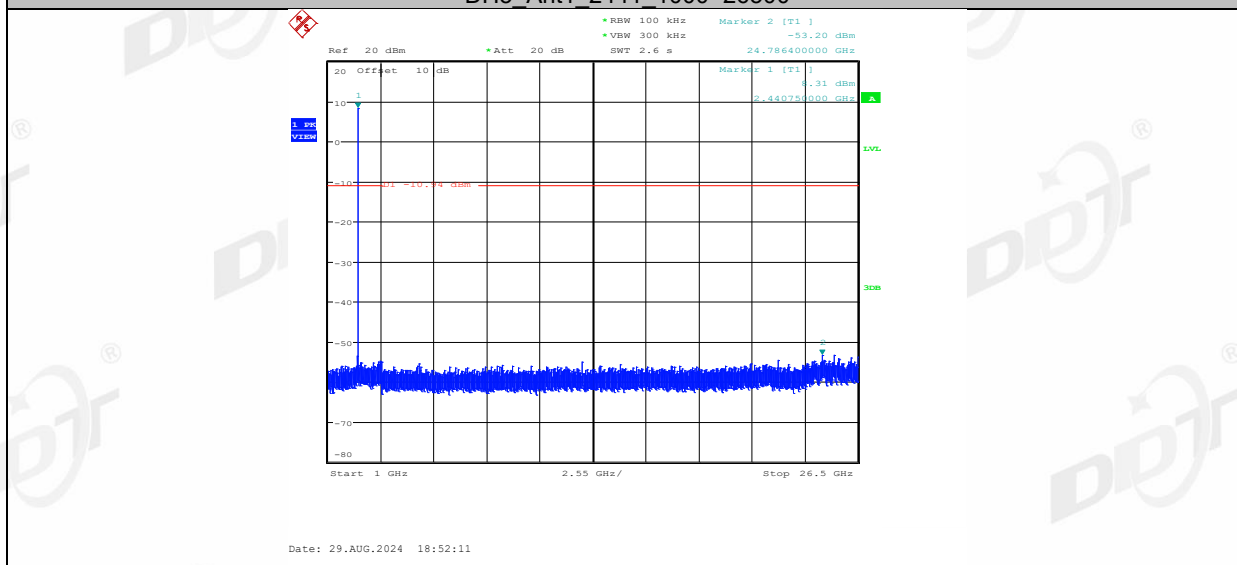
DH5_Ant1_2441_0~Reference



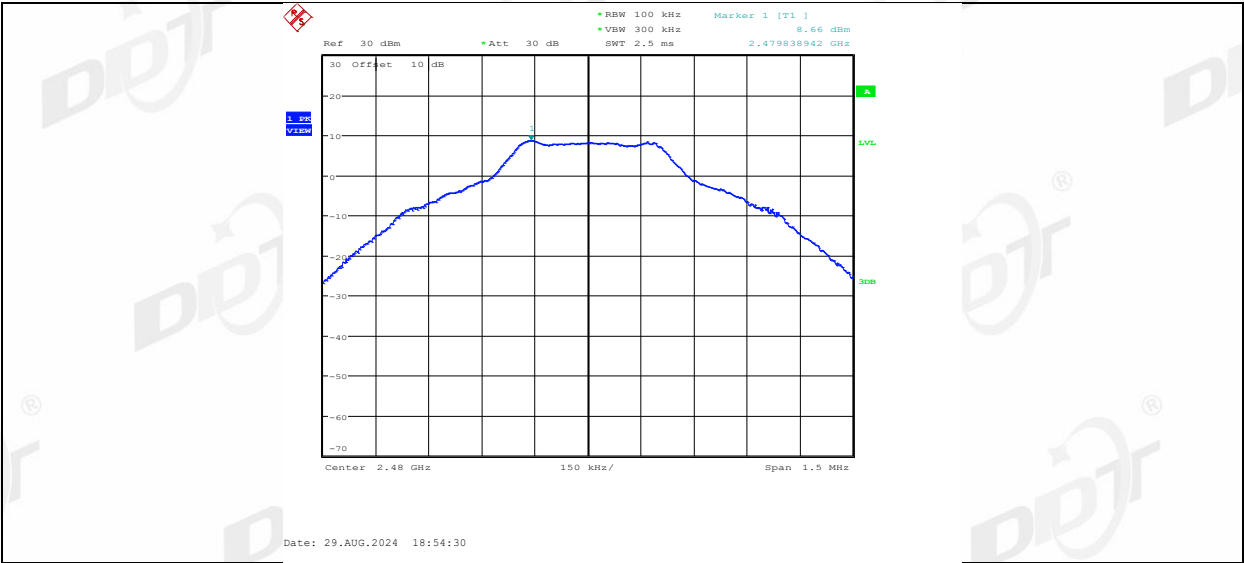
DH5_Ant1_2441_30~1000



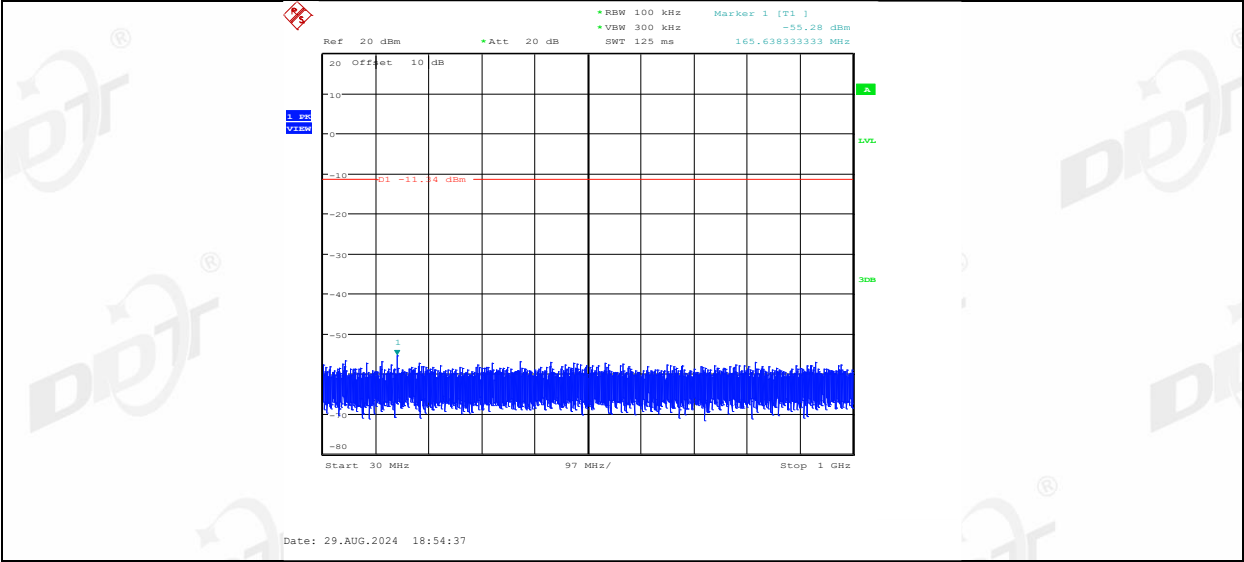
DH5_Ant1_2441_1000~2650



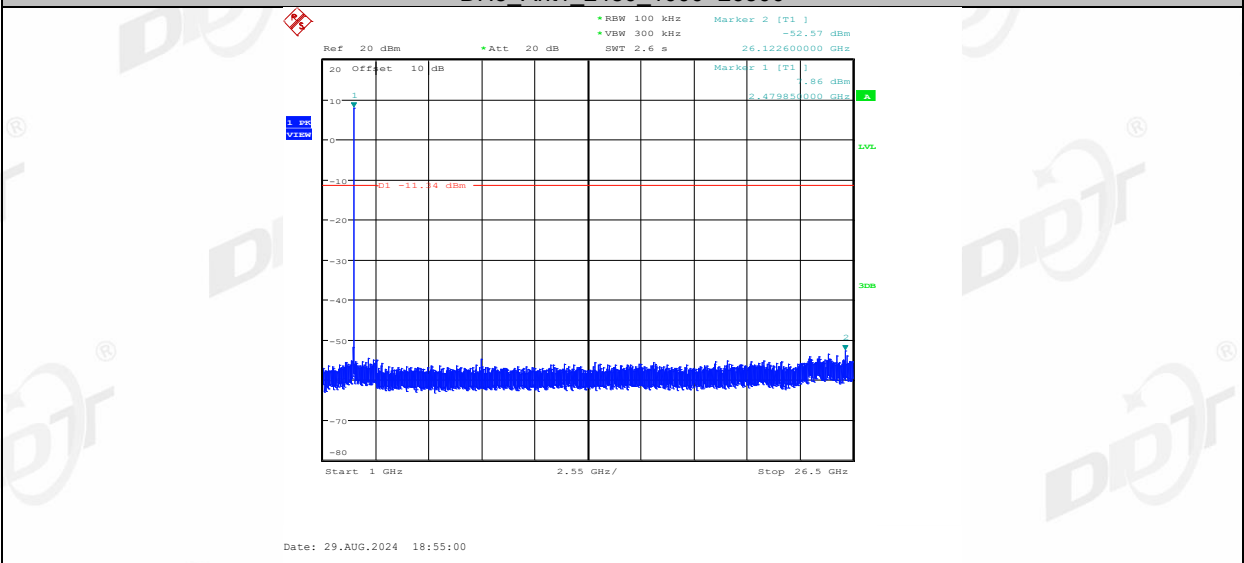
DH5_Ant1_2480_0~Reference



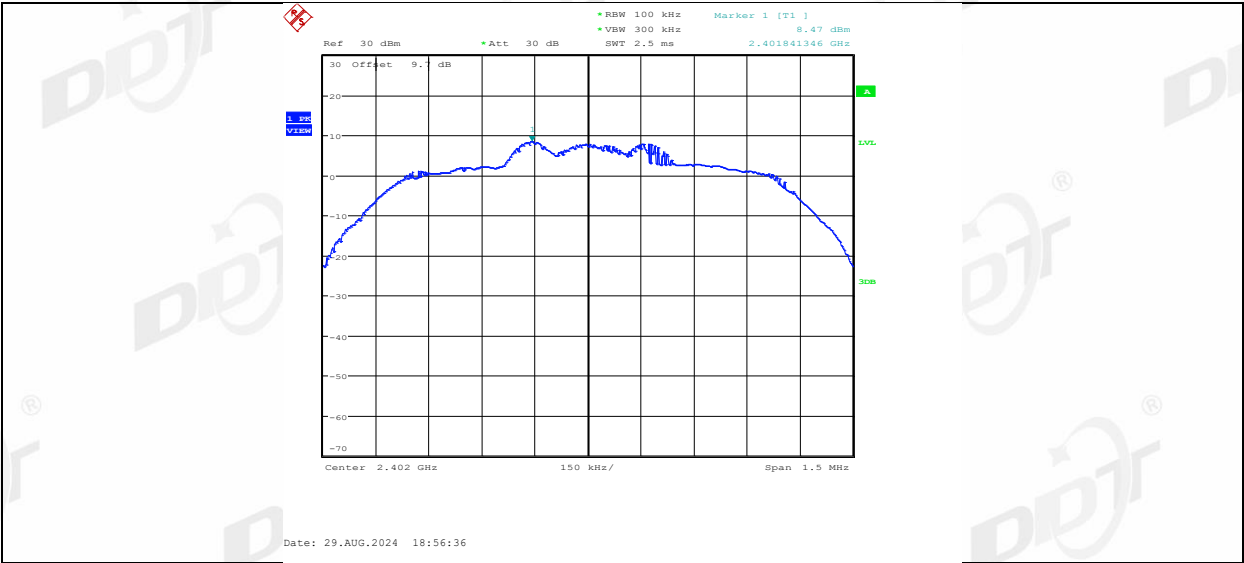
DH5_Ant1_2480_30~1000



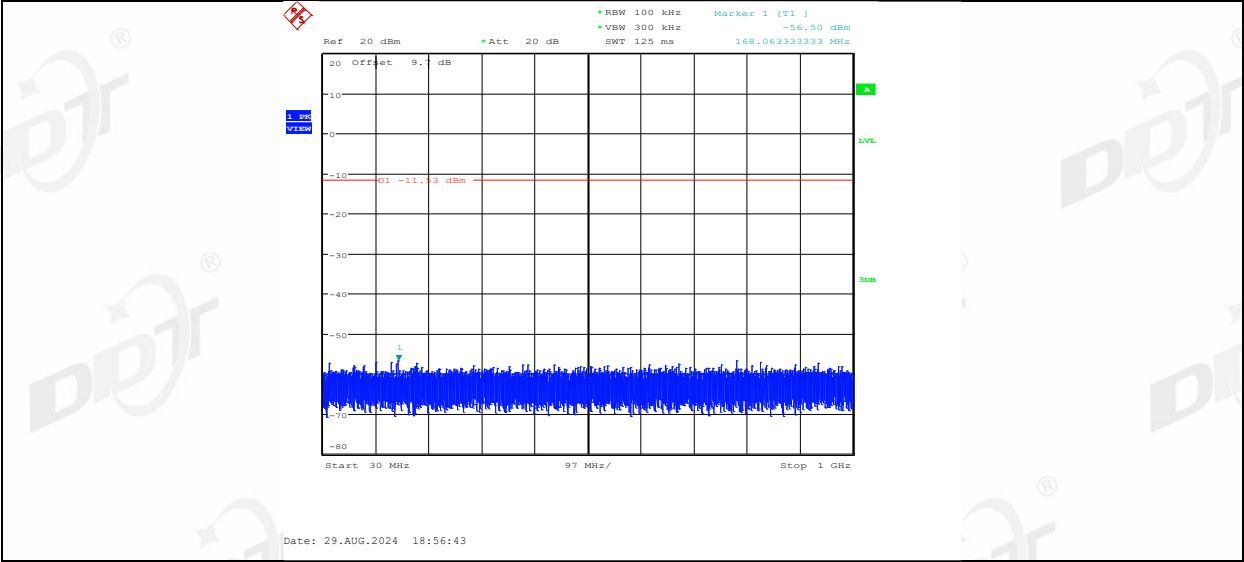
DH5_Ant1_2480_1000~26500



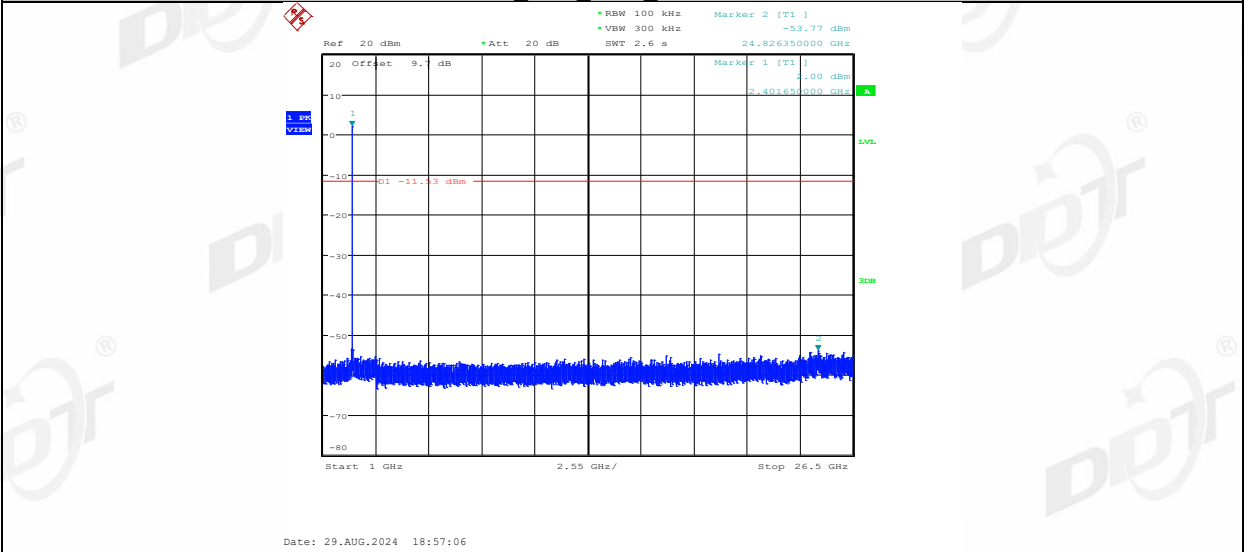
2DH5_Ant1_2402_0~Reference



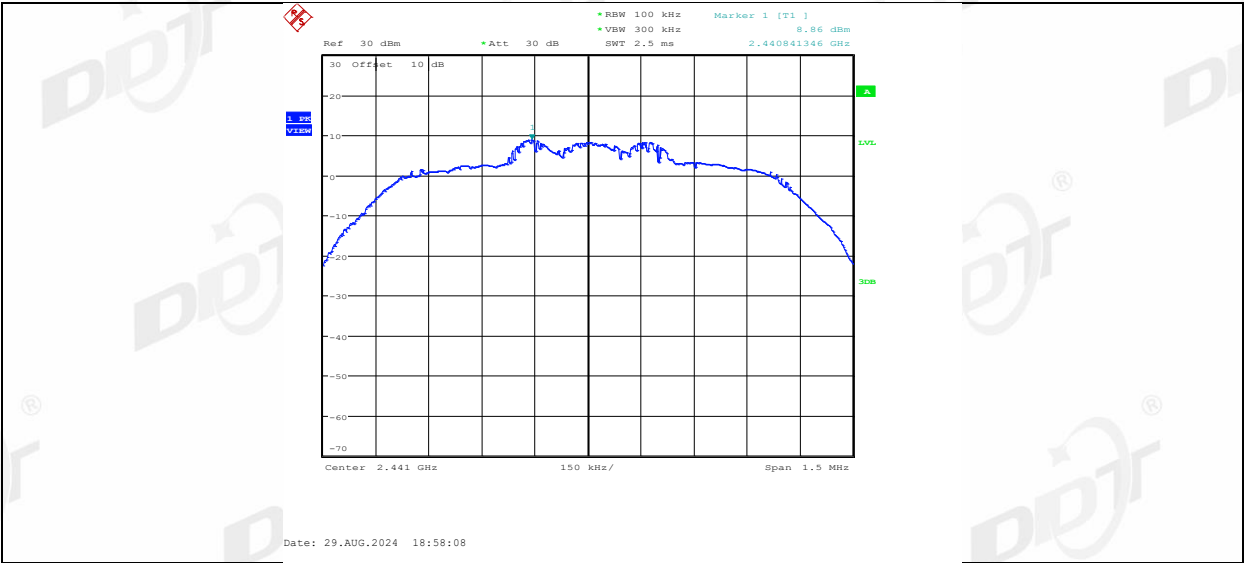
2DH5_Ant1_2402_30~1000



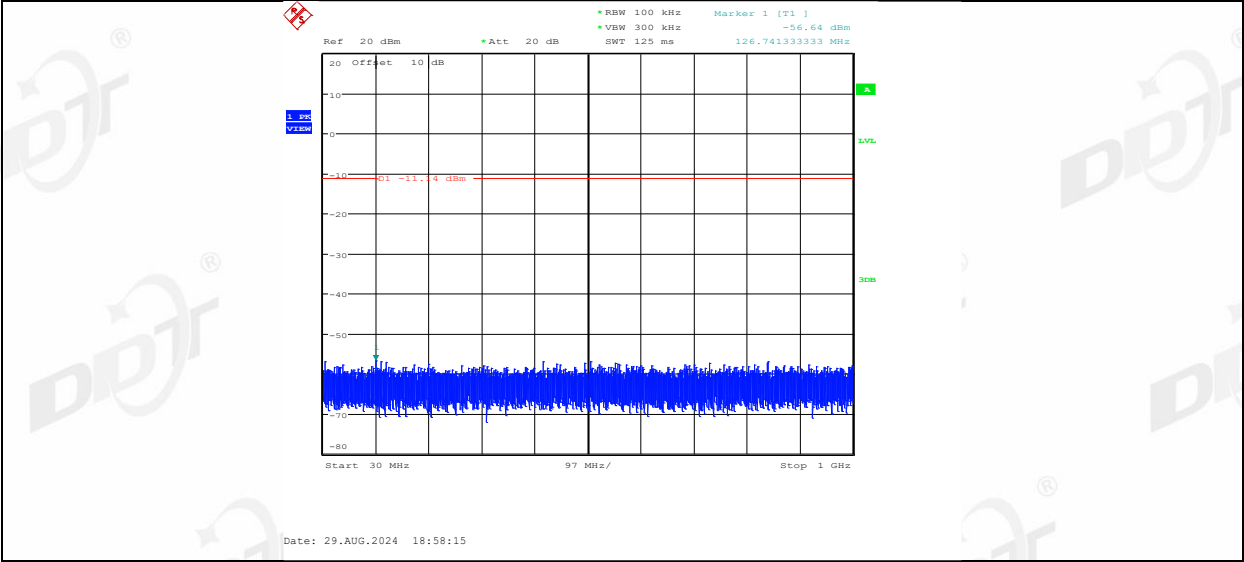
2DH5_Ant1_2402_1000~26500



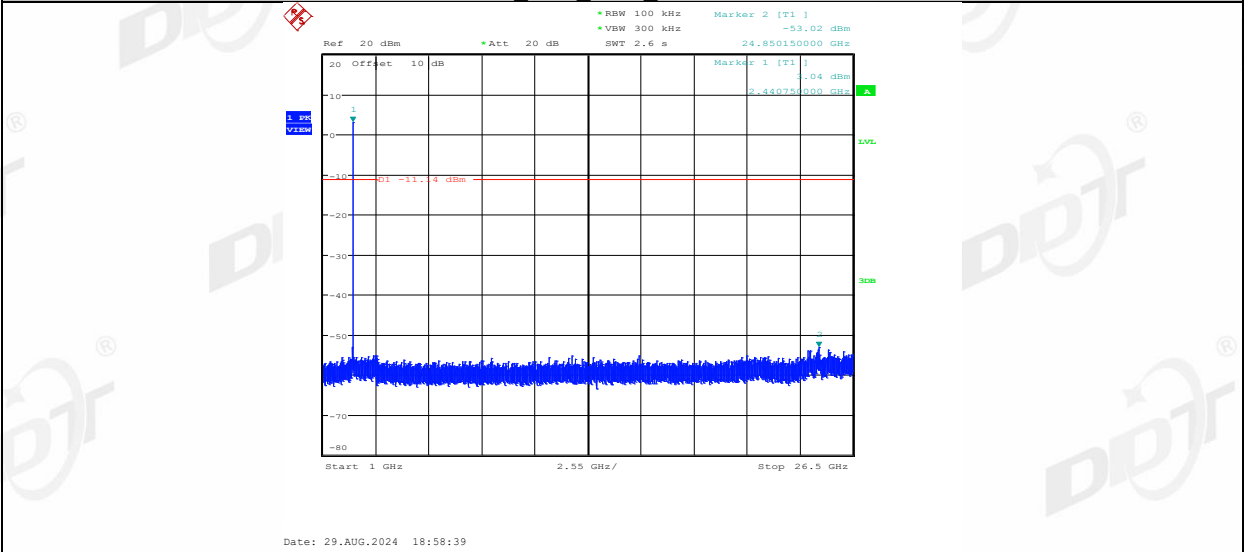
2DH5_Ant1_2441_0~Reference



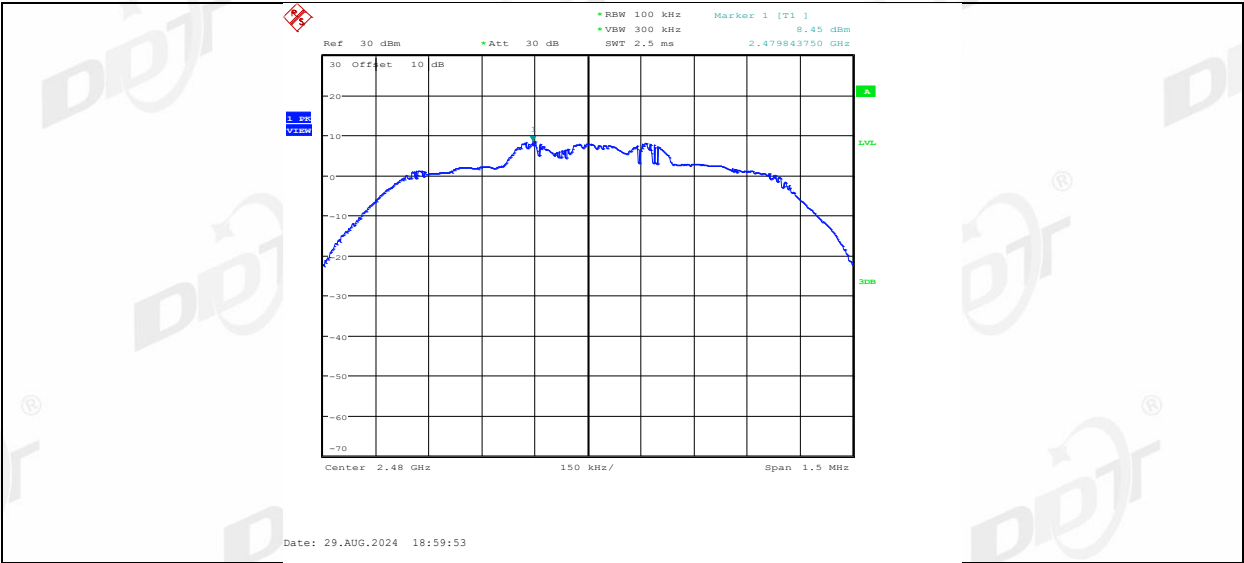
2DH5_Ant1_2441_30~1000



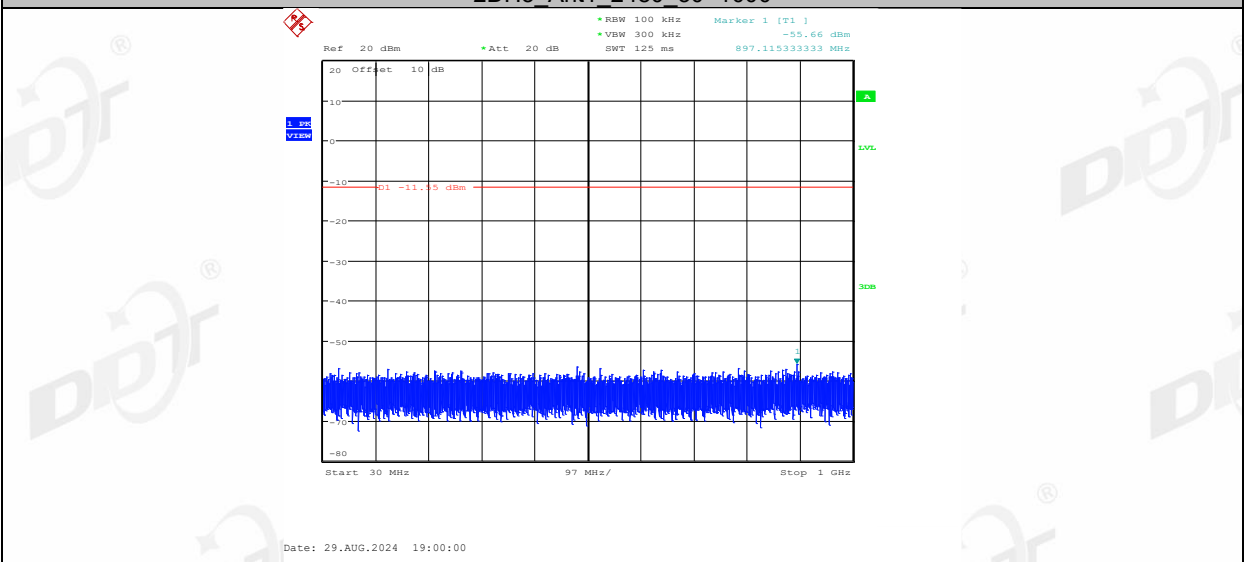
2DH5_Ant1_2441_1000~26500



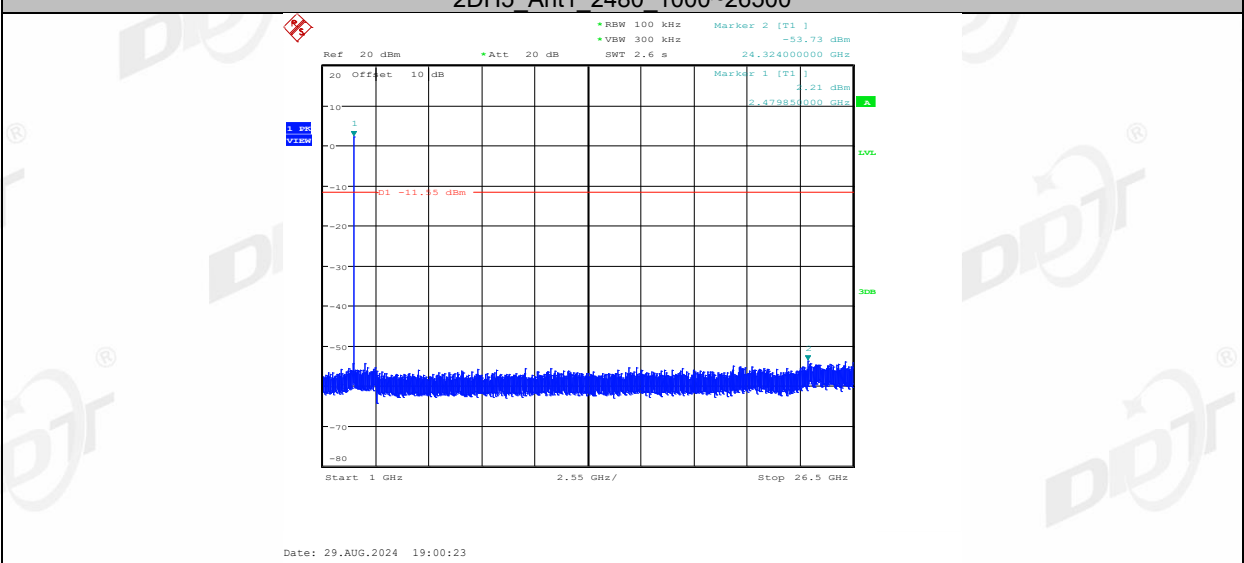
2DH5_Ant1_2480_0~Reference



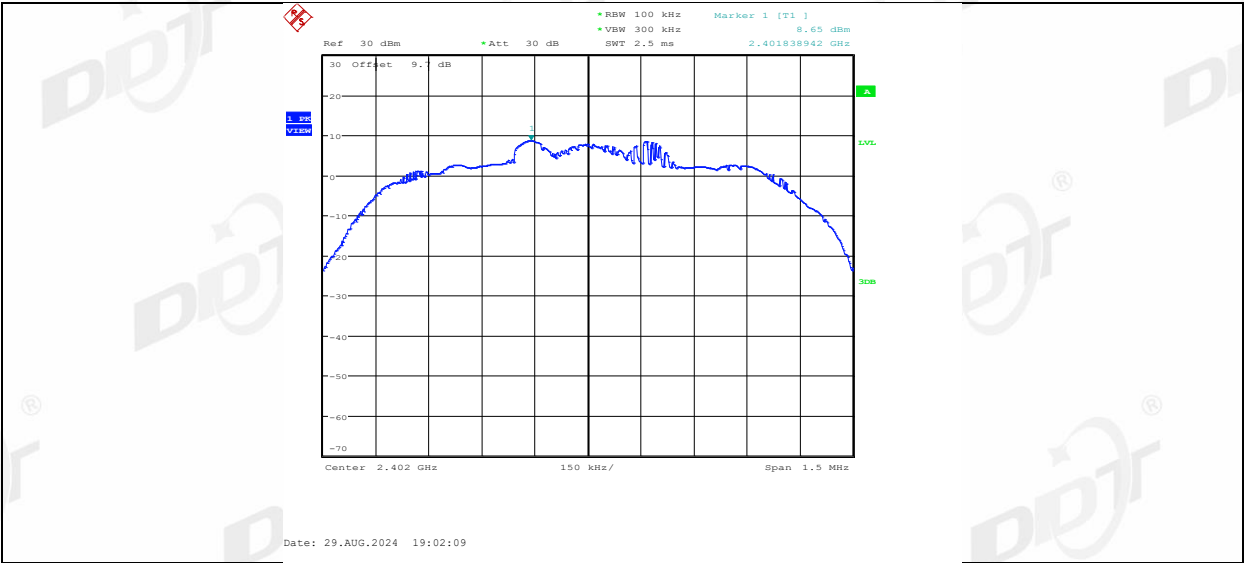
2DH5_Ant1_2480_30~1000



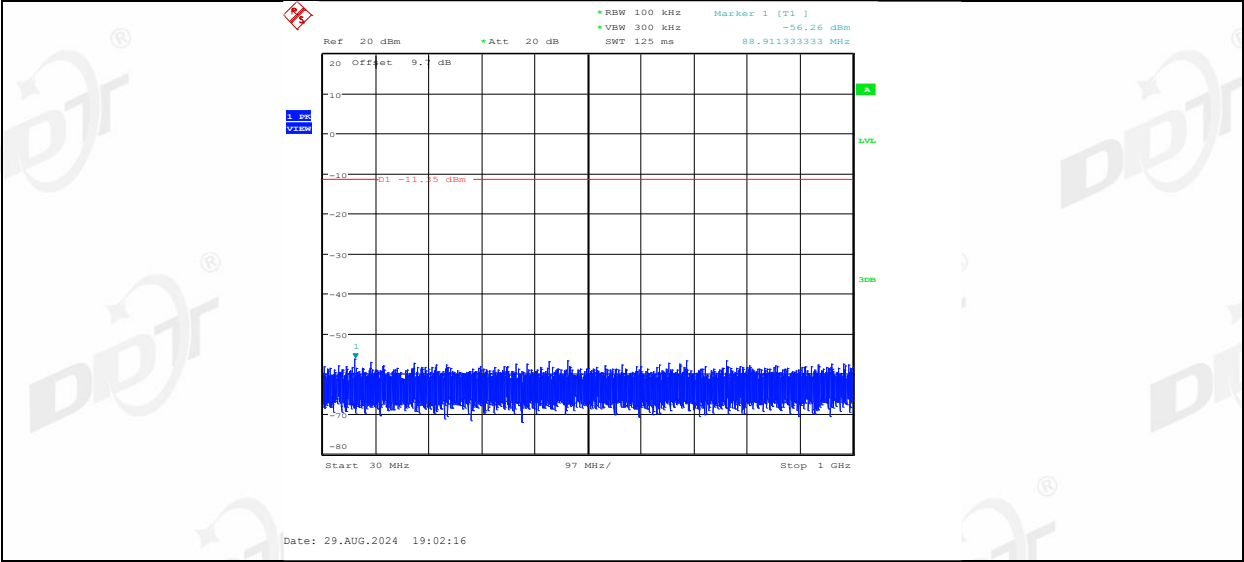
2DH5_Ant1_2480_1000~26500



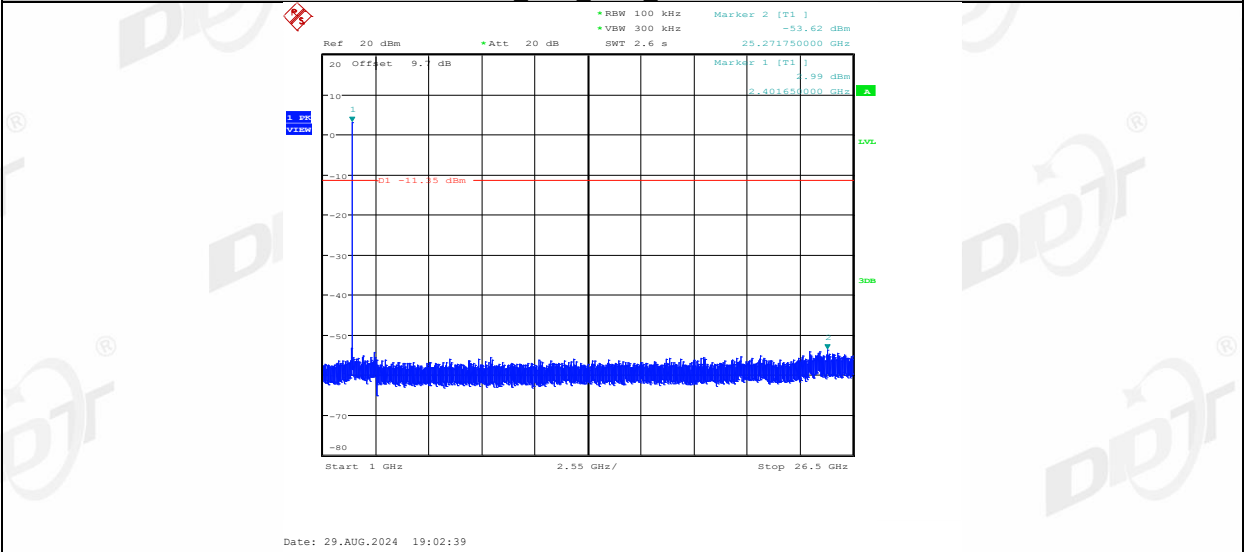
3DH5_Ant1_2402_0~Reference



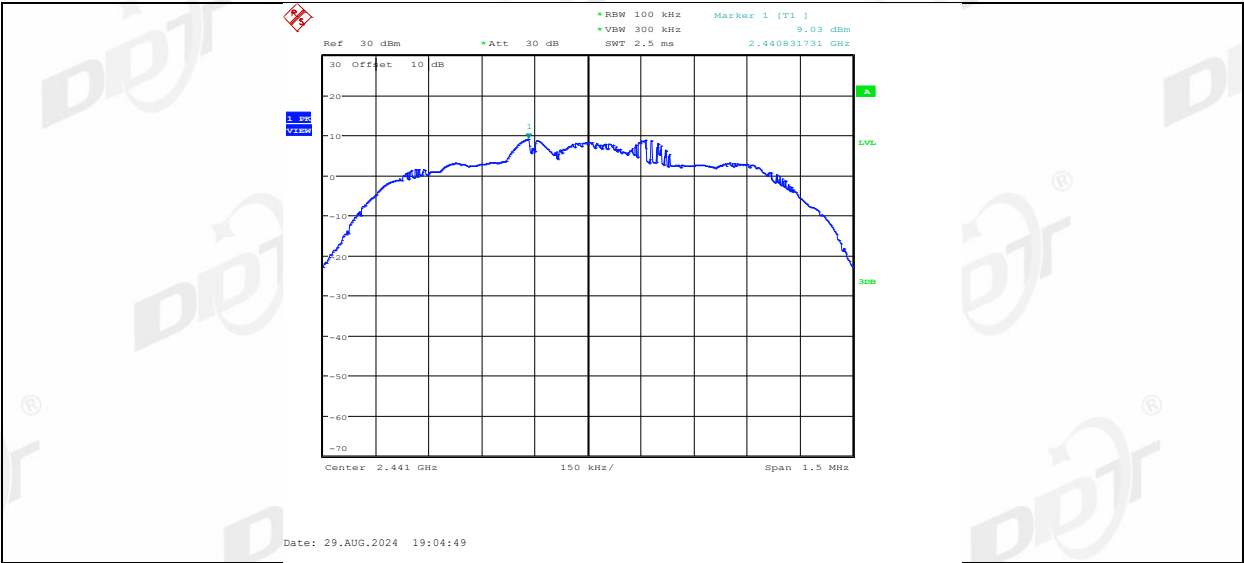
3DH5_Ant1_2402_30~1000



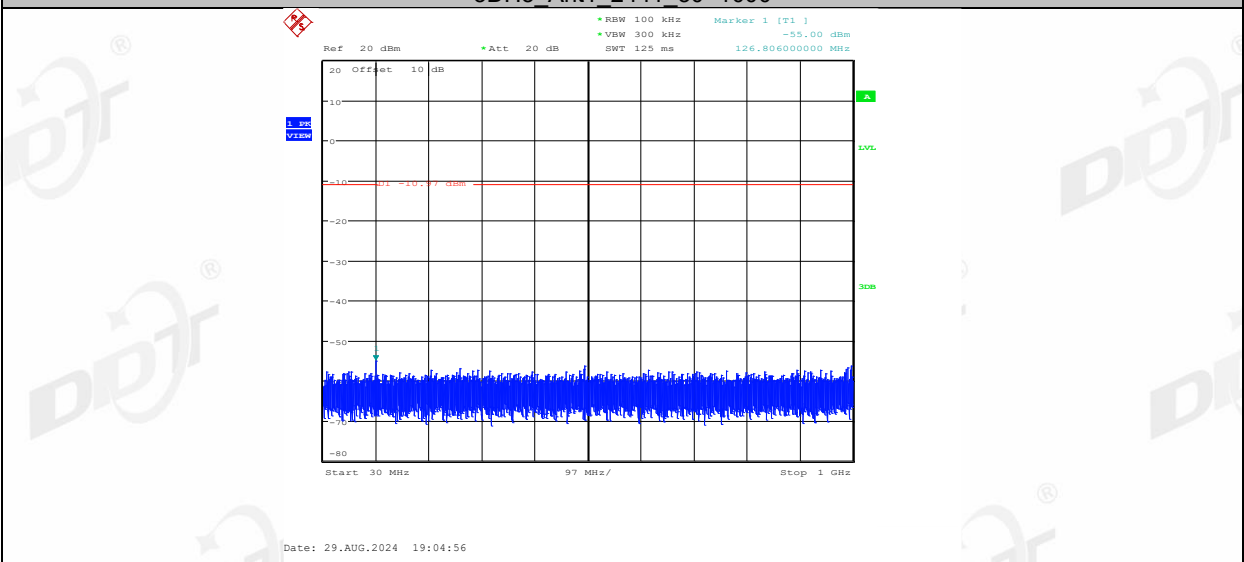
3DH5_Ant1_2402_1000~26500



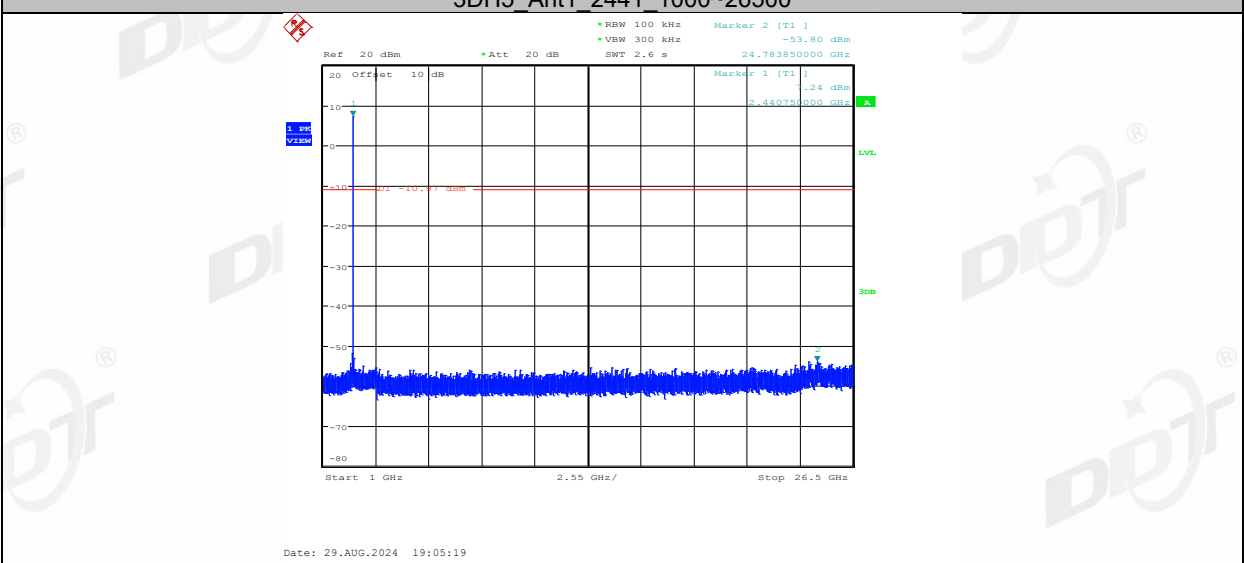
3DH5_Ant1_2441_0~Reference



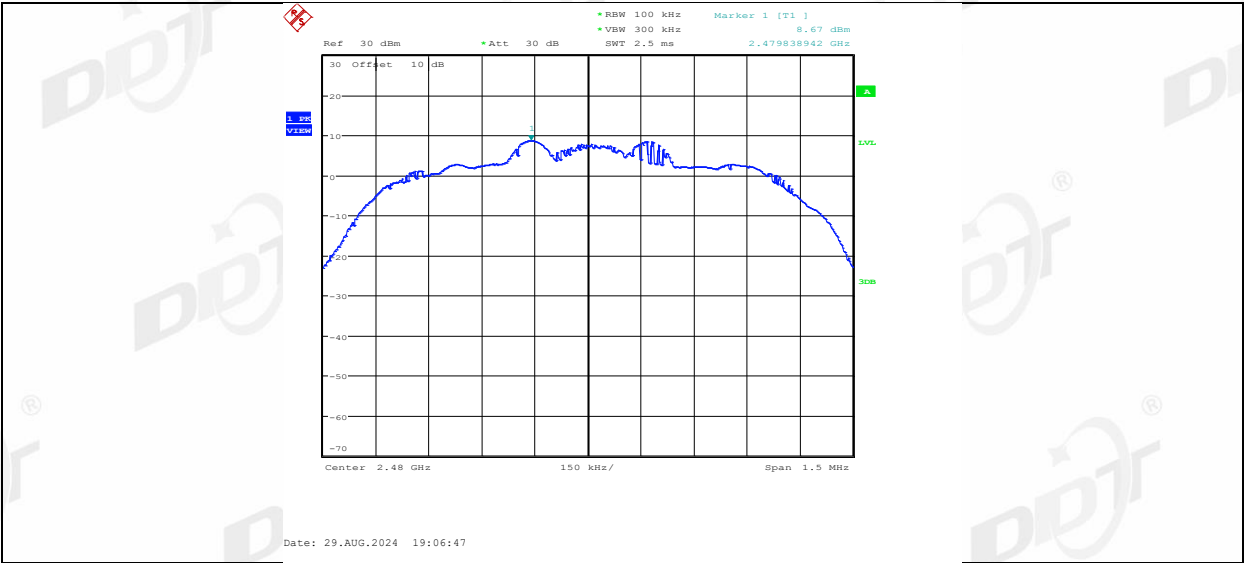
3DH5_Ant1_2441_30~1000



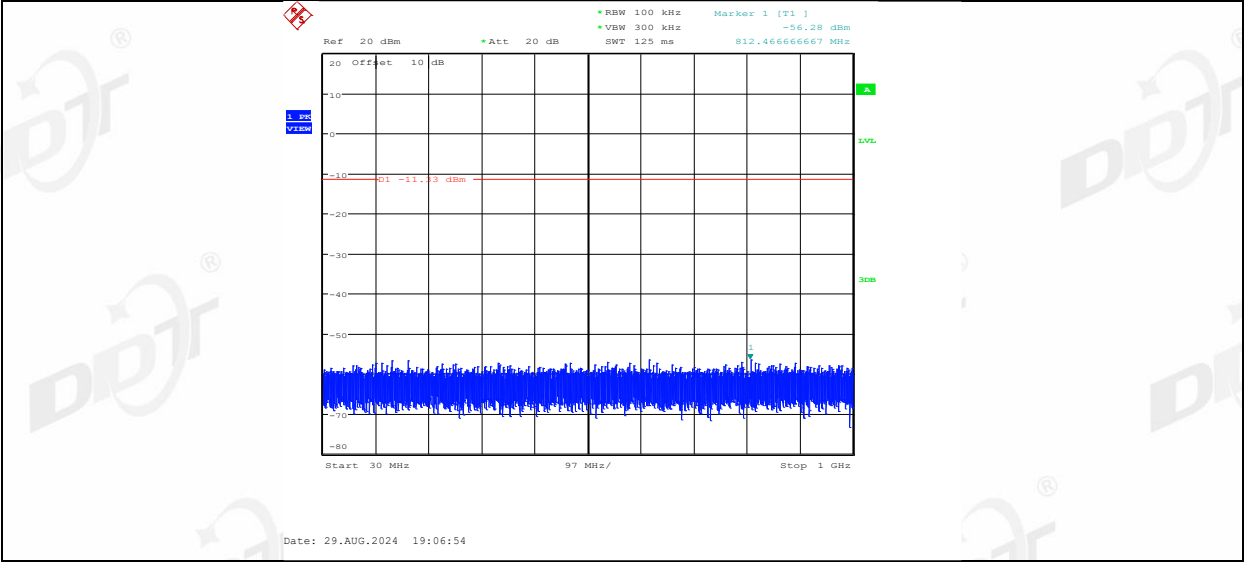
3DH5_Ant1_2441_1000~26500



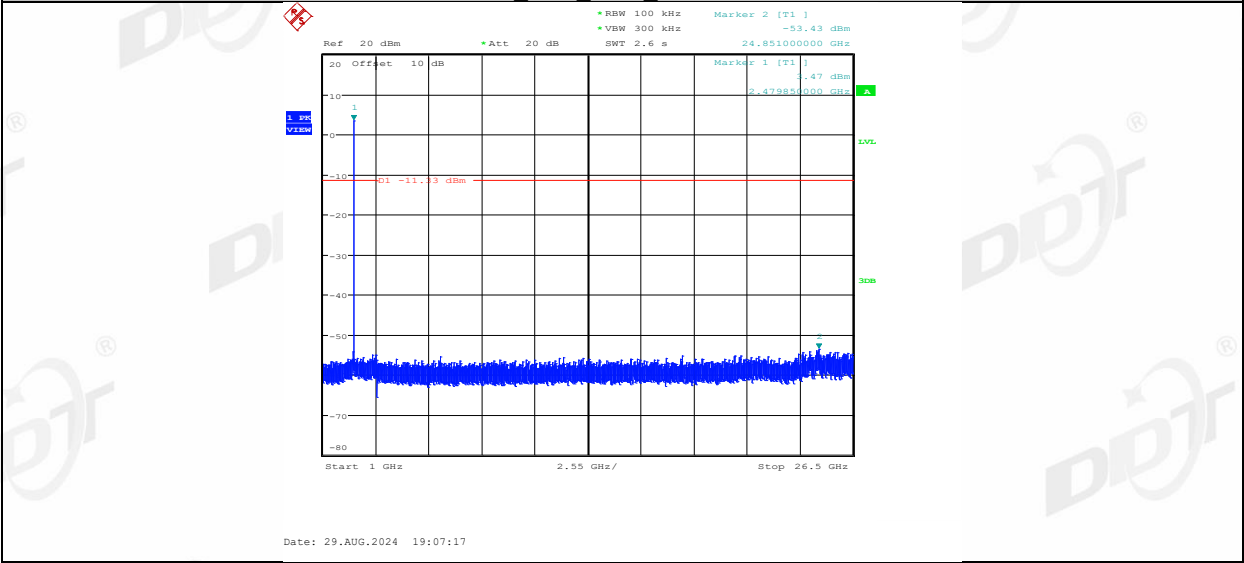
3DH5_Ant1_2480_0~Reference



3DH5_Ant1 2480 30~1000

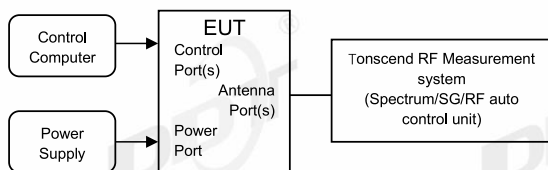


3DH5_Ant1 2480 1000~26500



12. Duty cycle

12.1. Block diagram of test setup



12.2. Limit

Just for Report.

12.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

Sweep: Video Trigger

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:

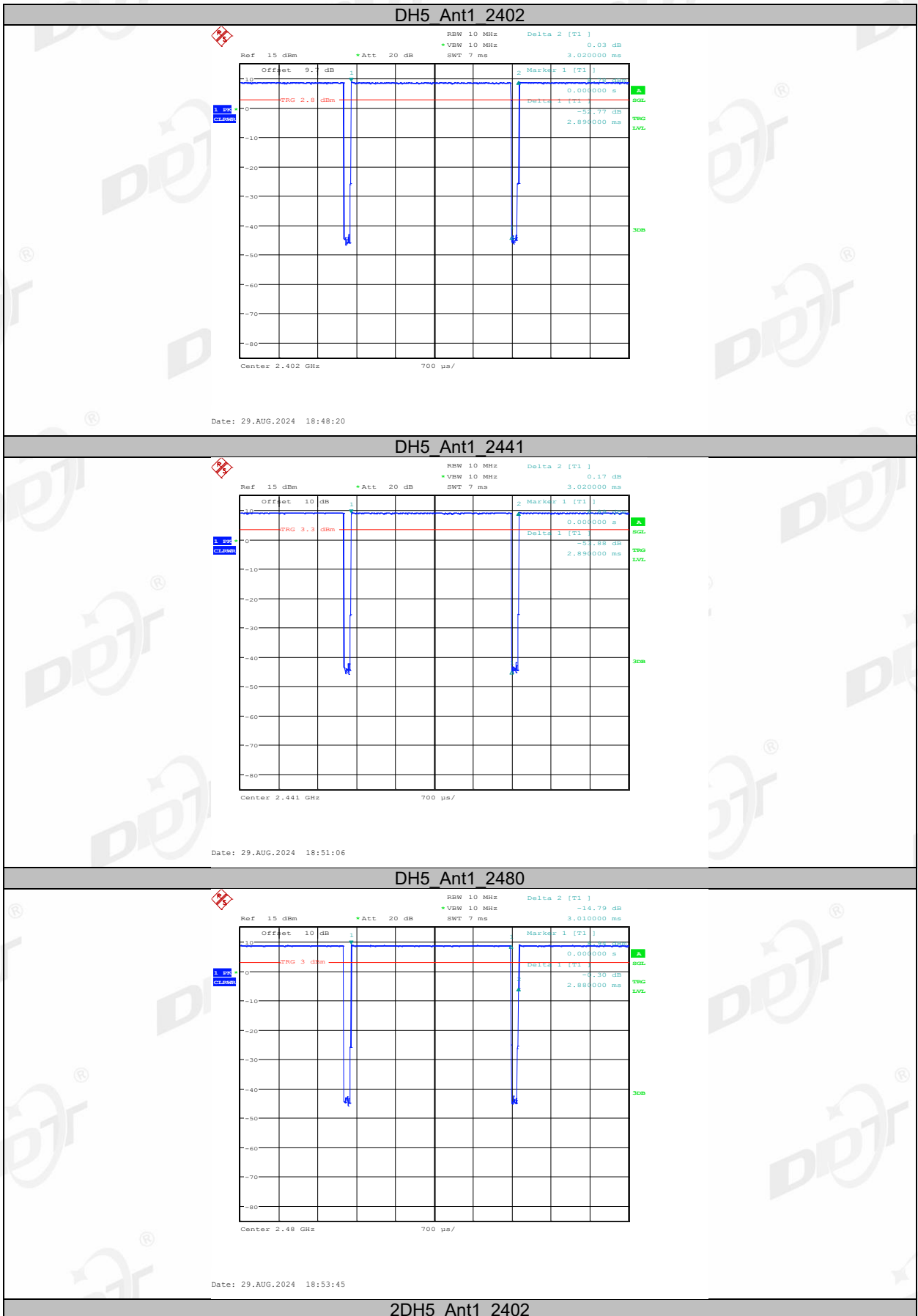
Duty cycle= Pulse's on time / Burst cycle

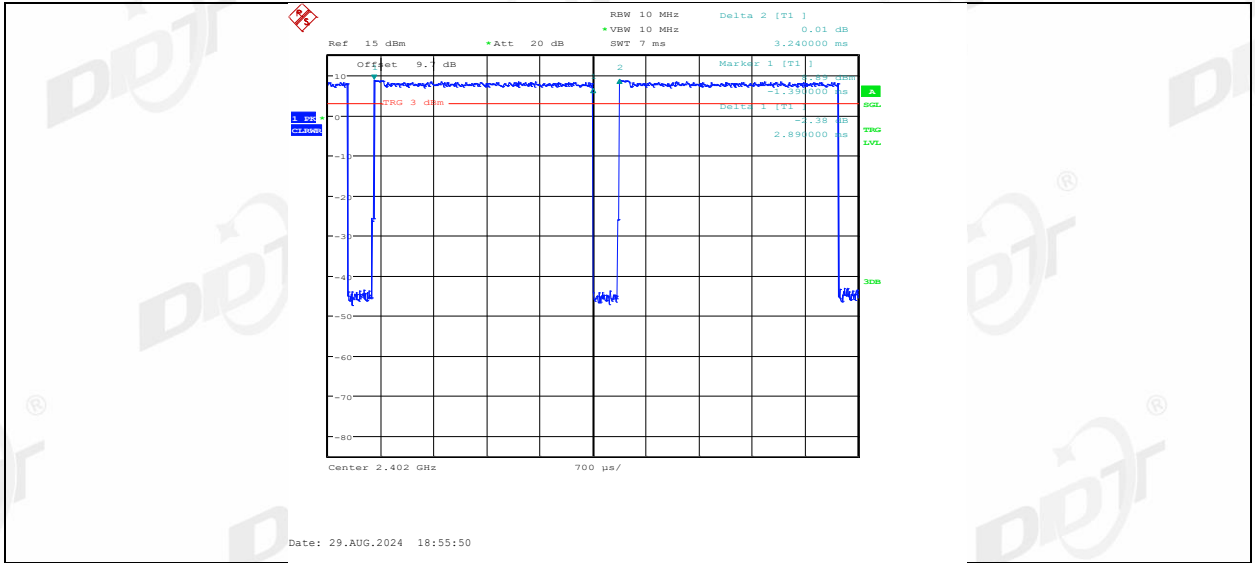
12.4. Test result

| | | | |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer: | Zora Zhang | Test Site: | RF Measurement System 1# |
| Ambient Condition: | 25.1°C,60.3%RH | Test Date: | 2024.08.29 |
| Test Power Supply: | Battery | Sample Number: | S24081413-001 |

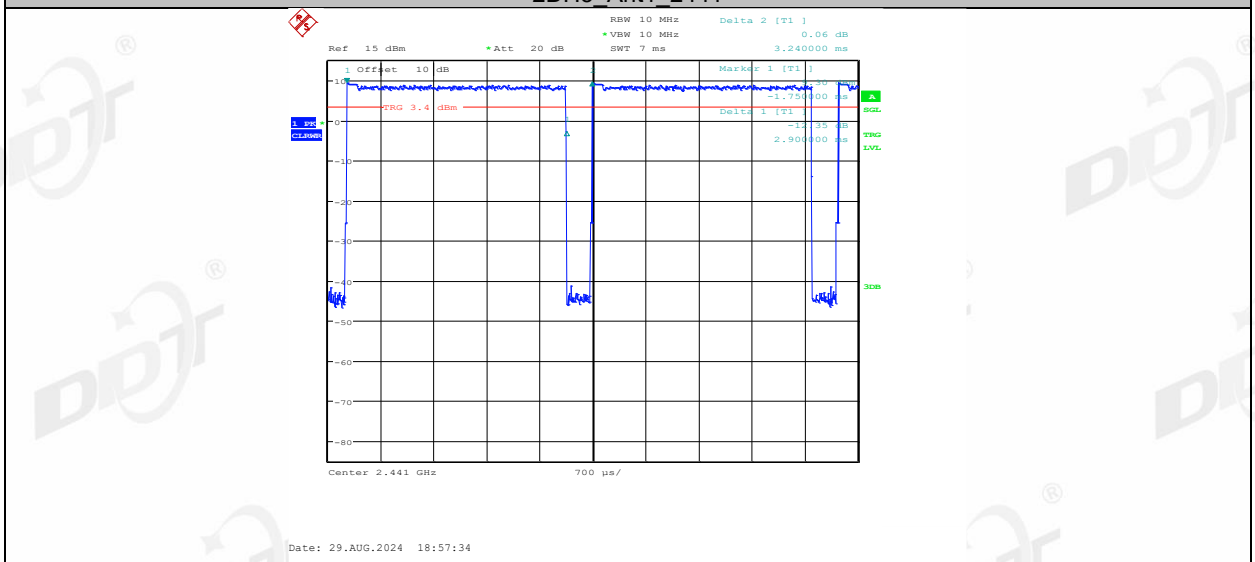
| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| DH5 | Ant1 | 2402 | 2.89 | 3.02 | 95.70 | 0.19 |
| | | 2441 | 2.89 | 3.02 | 95.70 | 0.19 |
| | | 2480 | 2.88 | 3.01 | 95.68 | 0.19 |
| 2DH5 | Ant1 | 2402 | 2.89 | 3.24 | 89.20 | 0.50 |
| | | 2441 | 2.90 | 3.24 | 89.51 | 0.48 |
| | | 2480 | 2.89 | 3.24 | 89.20 | 0.50 |
| 3DH5 | Ant1 | 2402 | 2.89 | 3.47 | 83.29 | 0.79 |
| | | 2441 | 2.89 | 3.46 | 83.53 | 0.78 |
| | | 2480 | 2.90 | 3.46 | 83.82 | 0.77 |

12.5. Test graphs

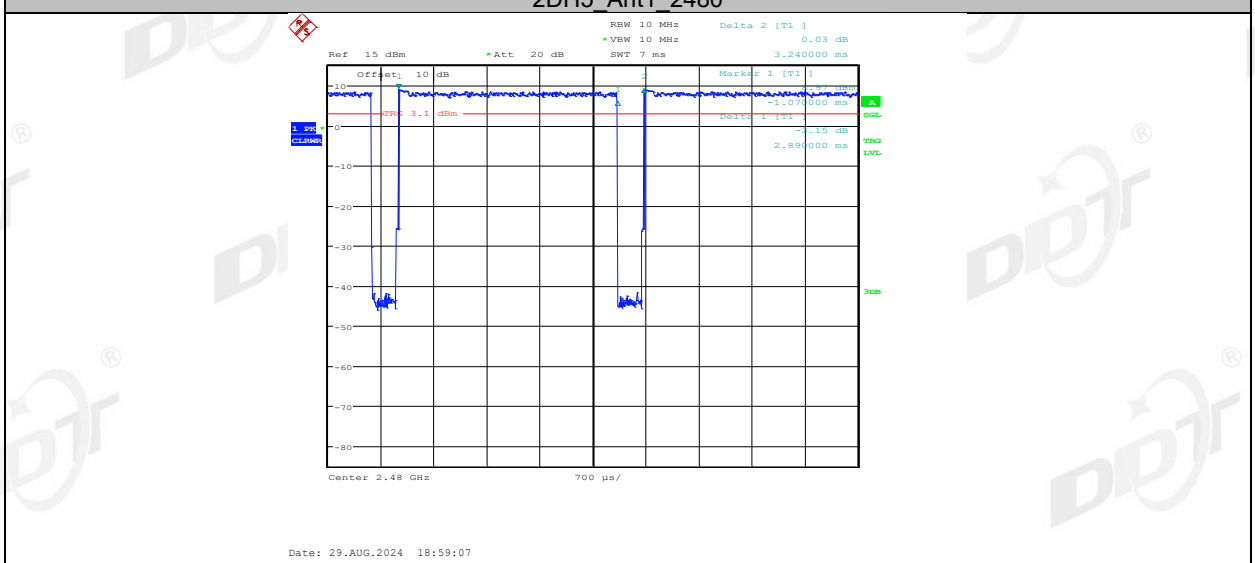




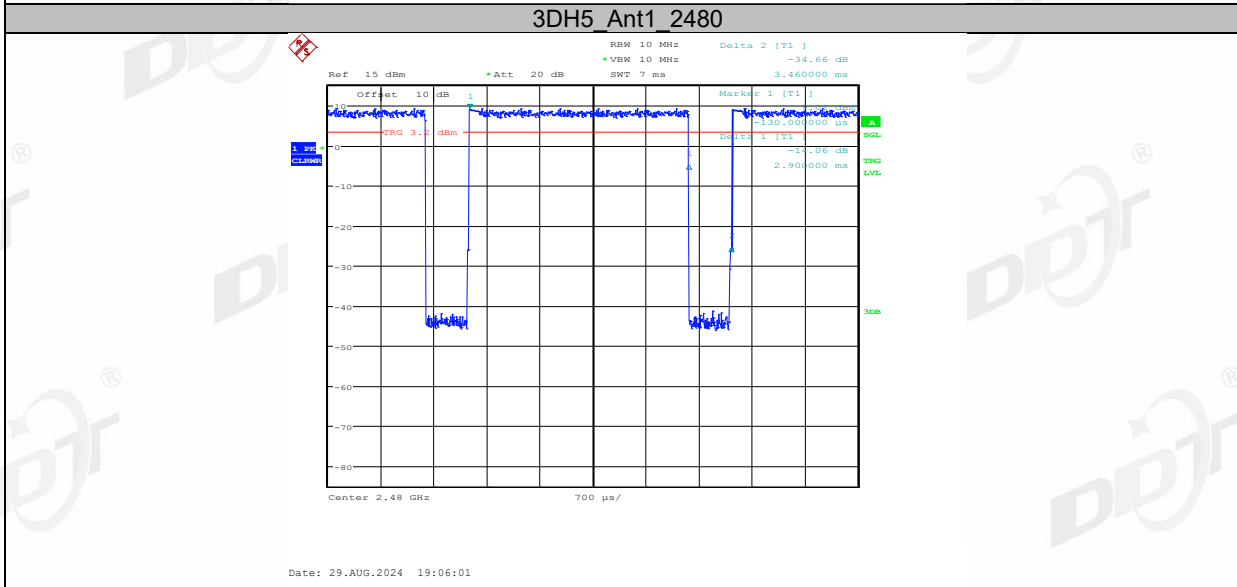
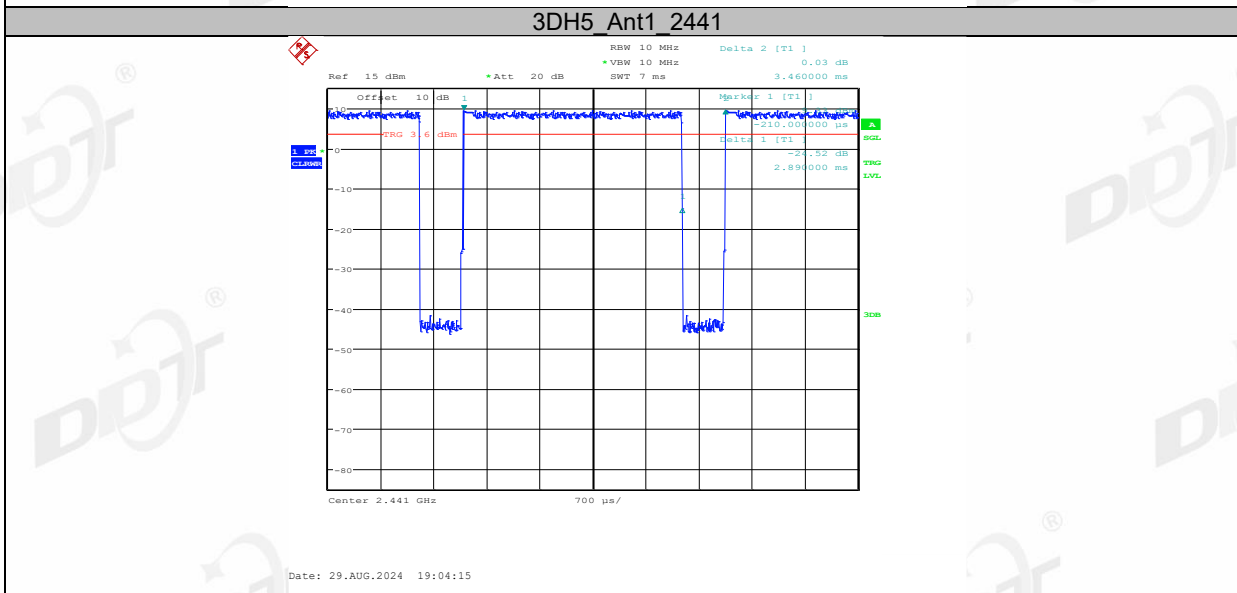
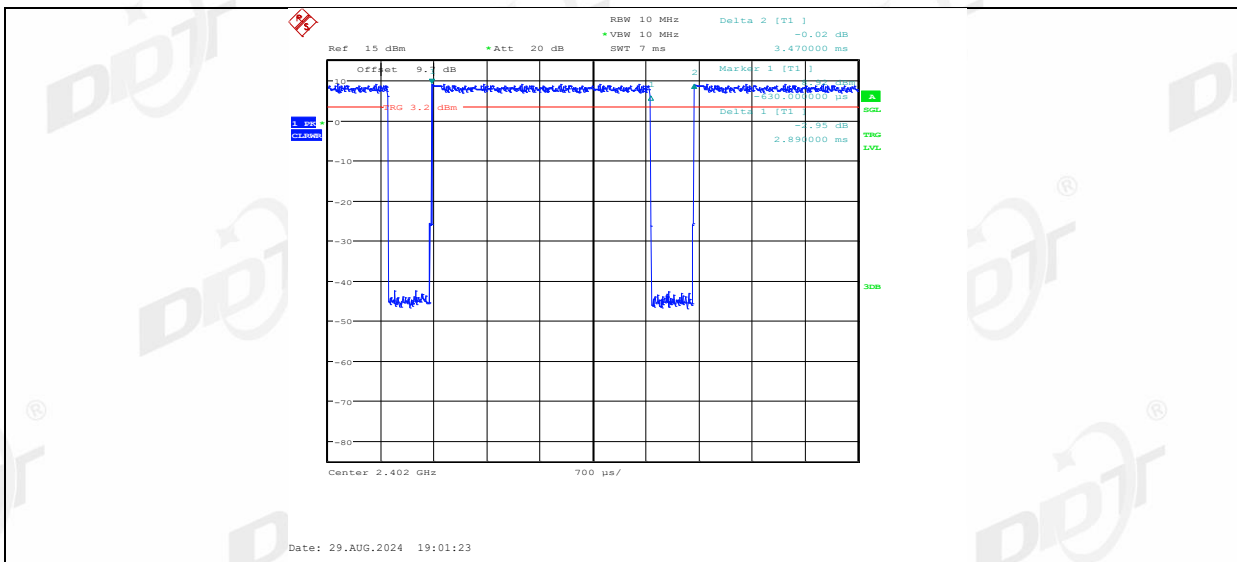
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



13. Antenna Requirements

13.1. 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.

13.2. Result

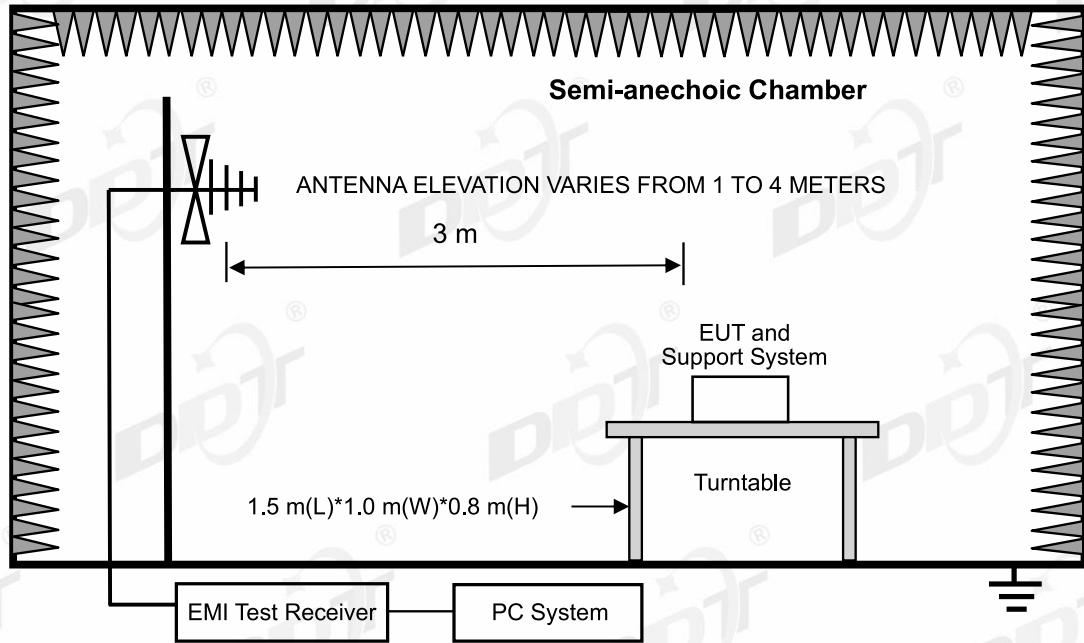
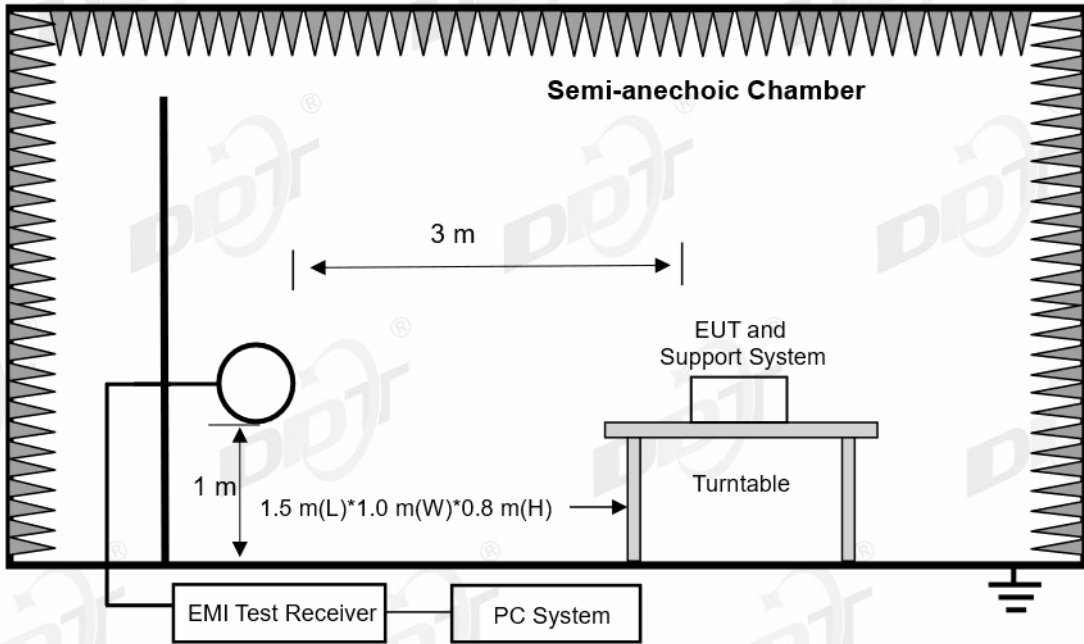
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

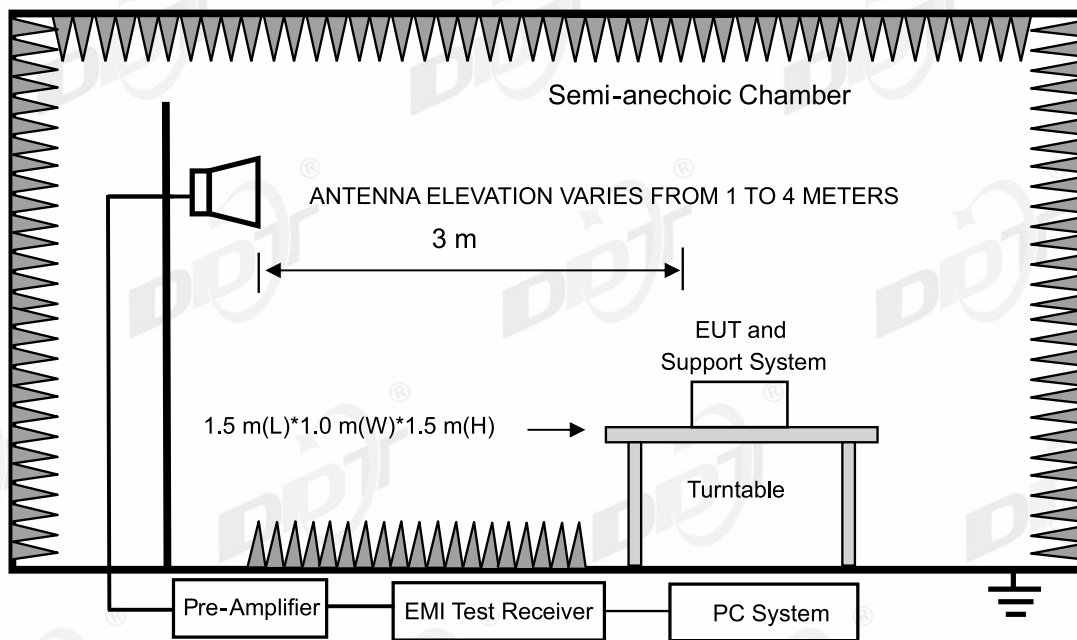
14.Radiated Emission

14.1. Test equipment

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

14.2. Block diagram of test setup





14.3. 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 |
| 10.495-0.505 | 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 | |
|------------------|--------------------|---|--------------------------|
| | | $\mu\text{V/m}$ | $\text{dB}\mu\text{V/m}$ |
| 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 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (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:

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(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.

14.4. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | Description | other |
|---------------------|--------------|--------------|-------------|-------|
| / | / | / | / | / |

14.5. 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 through 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 GFSK, $\pi/4$ -DQPSK and 8DPSK, the worst case is record and 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.

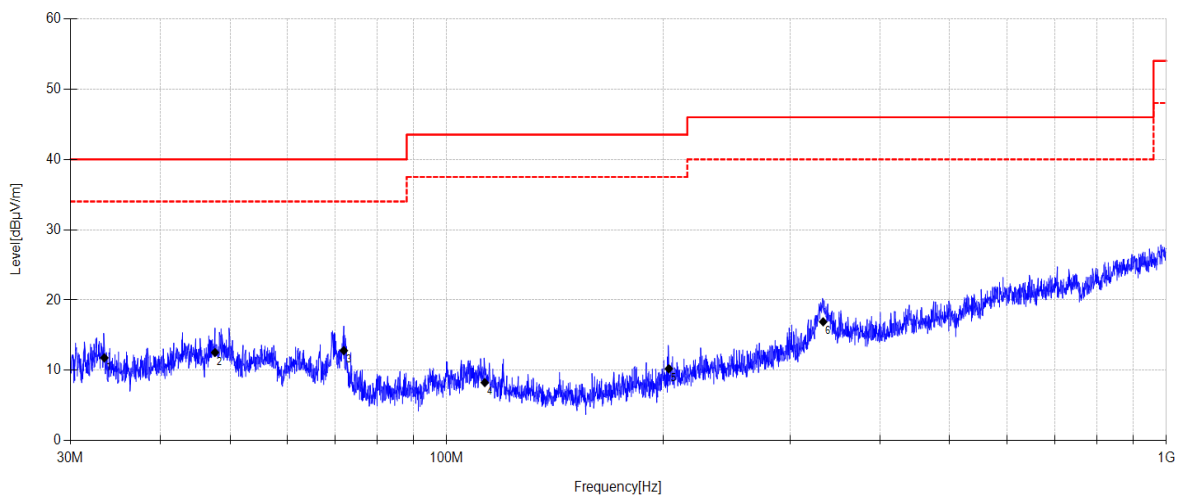
14.6. Test result

PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC BELOW1G\20240901-231053_H
Memo: Sample Number: S24081413-001



| 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 | 33.444 | 27.77 | 11.19 | 3.78 | 11.79 | 40.00 | 28.21 | QP | Horizontal |
| 2 | 47.654 | 27 | 12.41 | 3.87 | 12.54 | 40.00 | 27.46 | QP | Horizontal |
| 3 | 71.971 | 29.74 | 9.60 | 4.03 | 12.82 | 40.00 | 27.18 | QP | Horizontal |
| 4 | 112.969 | 23.53 | 11.31 | 4.29 | 8.27 | 43.50 | 35.23 | QP | Horizontal |
| 5 | 203.588 | 25.39 | 10.66 | 4.78 | 10.24 | 43.50 | 33.26 | QP | Horizontal |
| 6 | 333.526 | 27.28 | 14.51 | 5.35 | 16.91 | 46.00 | 29.09 | QP | Horizontal |

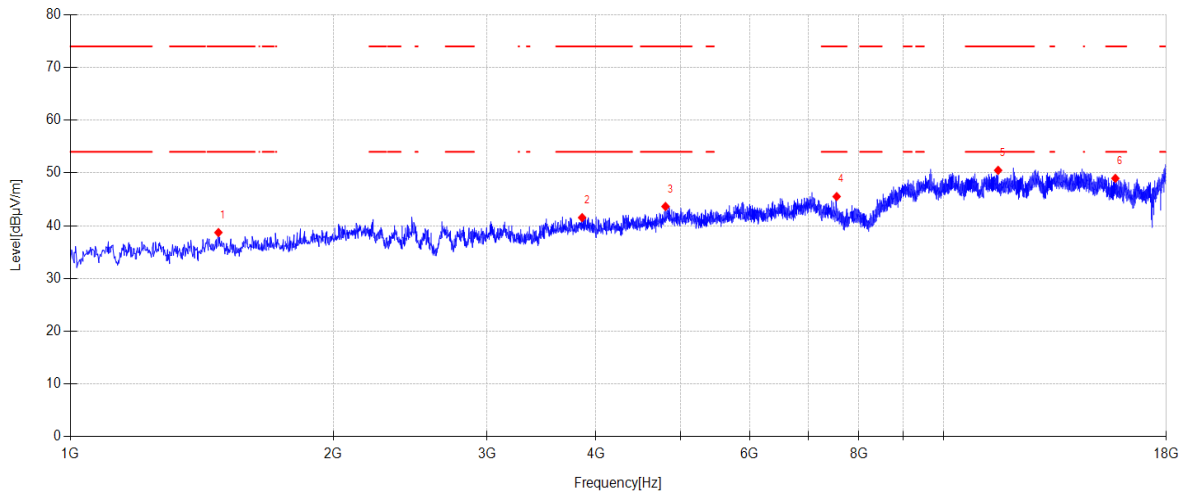
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2402MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G1
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 1477.700 | 46.55 | 25.41 | 3.69 | -36.94 | 38.71 | 74.00 | 35.29 | PK | Horizontal |
| 2 | 3856.000 | 45.89 | 30.94 | 5.07 | -40.36 | 41.54 | 74.00 | 32.46 | PK | Horizontal |
| 3 | 4804.600 | 45.65 | 32.62 | 5.53 | -40.15 | 43.65 | 74.00 | 30.35 | PK | Horizontal |
| 4 | 7545.000 | 44.45 | 36.41 | 6.73 | -42.06 | 45.53 | 74.00 | 28.47 | PK | Horizontal |
| 5 | 11550.200 | 42.27 | 39.10 | 8.48 | -39.35 | 50.50 | 74.00 | 23.50 | PK | Horizontal |
| 6 | 15735.600 | 39.77 | 38.43 | 9.97 | -39.20 | 48.97 | 74.00 | 25.03 | PK | Horizontal |

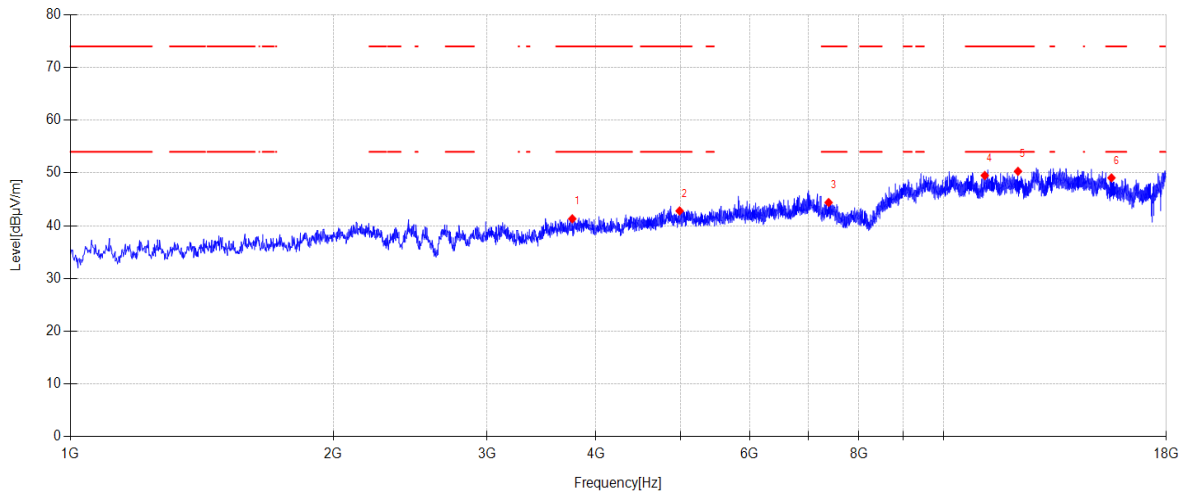
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2441MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\3
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 3757.400 | 45.99 | 30.53 | 5.09 | -40.30 | 41.31 | 74.00 | 32.69 | PK | Horizontal |
| 2 | 4986.500 | 44.08 | 33.17 | 5.64 | -40.08 | 42.81 | 74.00 | 31.19 | PK | Horizontal |
| 3 | 7386.900 | 42.69 | 36.73 | 6.65 | -41.67 | 44.40 | 74.00 | 29.60 | PK | Horizontal |
| 4 | 11150.700 | 41.21 | 39.25 | 8.22 | -39.16 | 49.52 | 74.00 | 24.48 | PK | Horizontal |
| 5 | 12172.400 | 41.79 | 39.30 | 8.85 | -39.63 | 50.31 | 74.00 | 23.69 | PK | Horizontal |
| 6 | 15575.800 | 39.66 | 38.65 | 9.87 | -39.11 | 49.07 | 74.00 | 24.93 | PK | Horizontal |

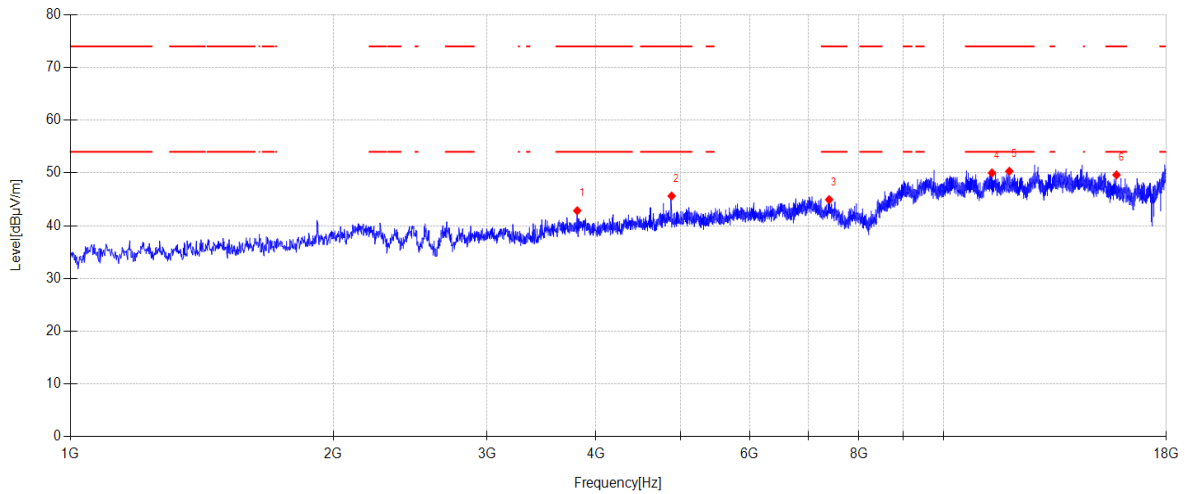
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2441MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G4
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 3806.700 | 47.36 | 30.73 | 5.08 | -40.33 | 42.84 | 74.00 | 31.16 | PK | Vertical |
| 2 | 4882.800 | 46.89 | 33.28 | 5.58 | -40.12 | 45.63 | 74.00 | 28.37 | PK | Vertical |
| 3 | 7397.100 | 43.27 | 36.71 | 6.65 | -41.69 | 44.94 | 74.00 | 29.06 | PK | Vertical |
| 4 | 11364.900 | 41.64 | 39.26 | 8.36 | -39.26 | 50.00 | 74.00 | 24.00 | PK | Vertical |
| 5 | 11897.000 | 42.22 | 38.90 | 8.70 | -39.51 | 50.31 | 74.00 | 23.69 | PK | Vertical |
| 6 | 15783.200 | 40.54 | 38.33 | 10.00 | -39.23 | 49.64 | 74.00 | 24.36 | PK | Vertical |

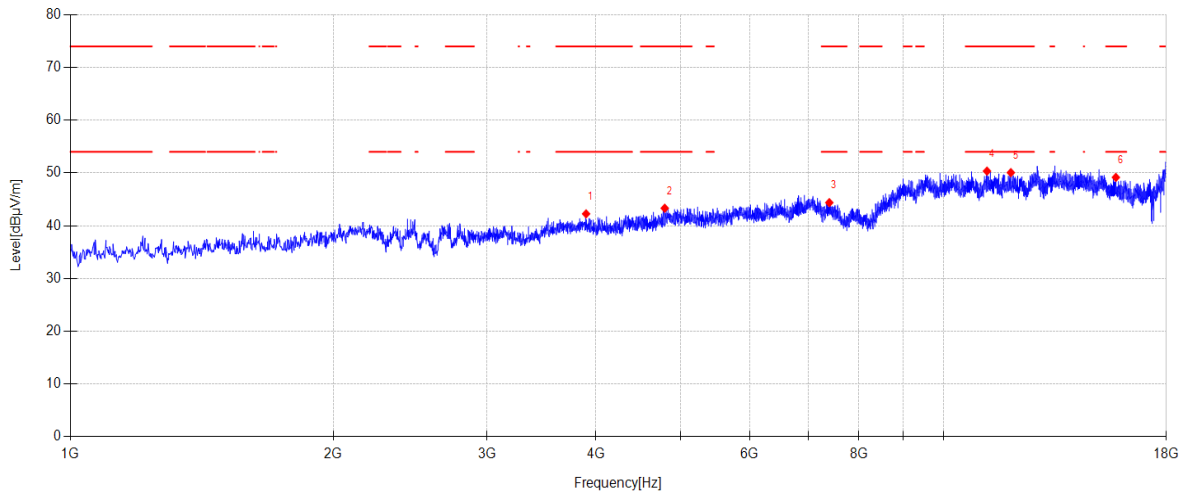
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2480MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\5
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 3896.800 | 46.39 | 31.18 | 5.07 | -40.39 | 42.25 | 74.00 | 31.75 | PK | Horizontal |
| 2 | 4794.400 | 45.47 | 32.48 | 5.53 | -40.16 | 43.32 | 74.00 | 30.68 | PK | Horizontal |
| 3 | 7400.500 | 42.72 | 36.70 | 6.65 | -41.70 | 44.37 | 74.00 | 29.63 | PK | Horizontal |
| 4 | 11217.000 | 42.07 | 39.20 | 8.27 | -39.19 | 50.35 | 74.00 | 23.65 | PK | Horizontal |
| 5 | 11944.600 | 41.84 | 39.03 | 8.73 | -39.53 | 50.07 | 74.00 | 23.93 | PK | Horizontal |
| 6 | 15757.700 | 40.00 | 38.38 | 9.99 | -39.21 | 49.16 | 74.00 | 24.84 | PK | Horizontal |

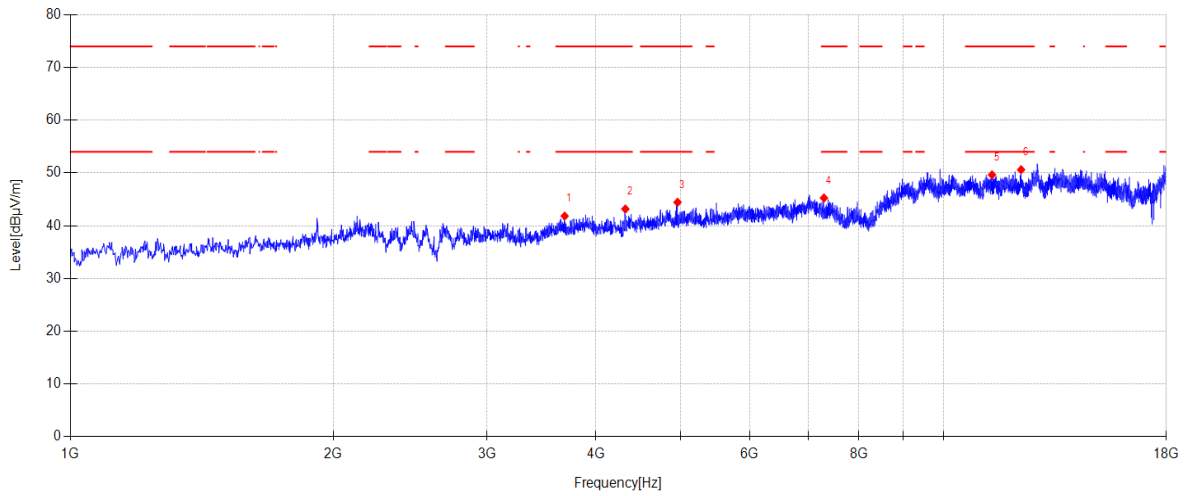
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2480MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\6
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 3682.600 | 46.66 | 30.33 | 5.10 | -40.26 | 41.83 | 74.00 | 32.17 | PK | Vertical |
| 2 | 4321.800 | 46.66 | 31.60 | 5.24 | -40.33 | 43.17 | 74.00 | 30.83 | PK | Vertical |
| 3 | 4959.300 | 45.80 | 33.12 | 5.63 | -40.10 | 44.45 | 74.00 | 29.55 | PK | Vertical |
| 4 | 7296.800 | 43.21 | 36.89 | 6.60 | -41.44 | 45.26 | 74.00 | 28.74 | PK | Vertical |
| 5 | 11364.900 | 41.28 | 39.26 | 8.36 | -39.26 | 49.64 | 74.00 | 24.36 | PK | Vertical |
| 6 | 12272.700 | 42.09 | 39.30 | 8.90 | -39.67 | 50.62 | 74.00 | 23.38 | PK | Vertical |

Note:

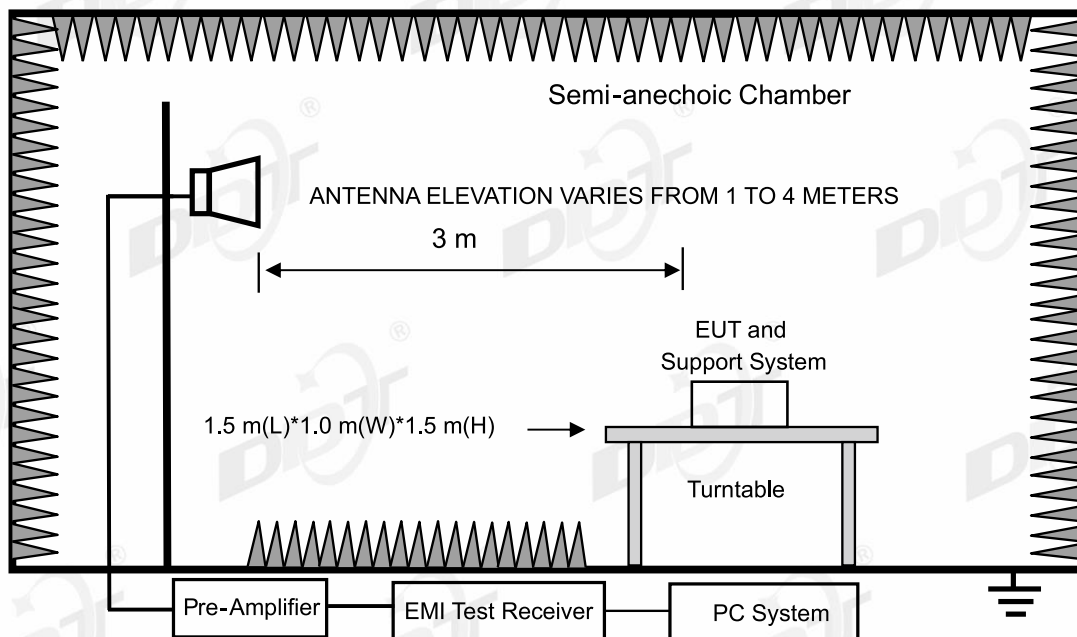
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

15. Band Edge Compliance

15.1. Test equipment

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

15.2. Block diagram of test setup



15.3. 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.

15.4. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | Description | other |
|---------------------|--------------|--------------|-------------|-------|
| / | / | / | / | / |

15.5. 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.

15.6. Test result

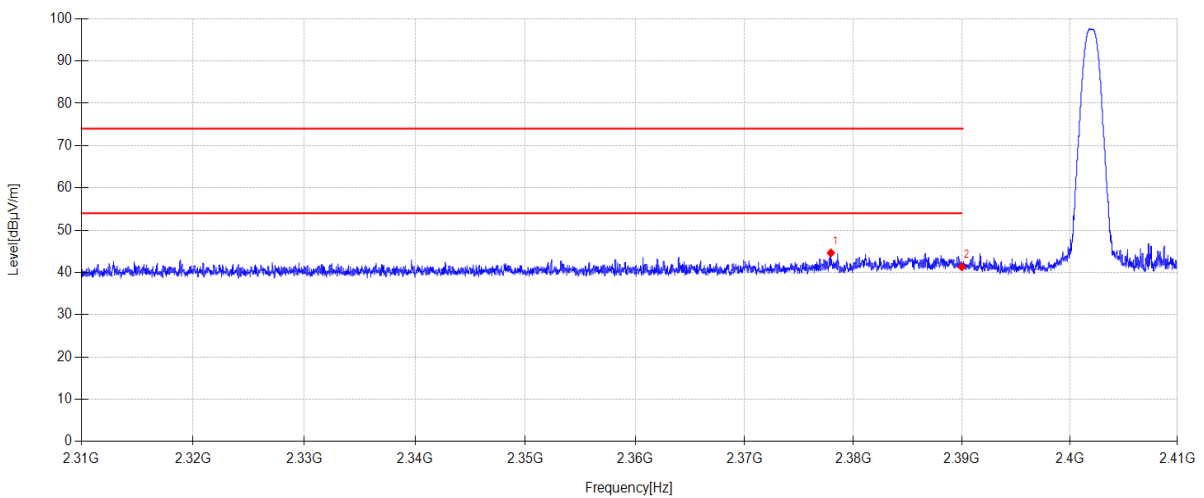
PASS. (See below detailed test result)

15.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2402MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\37
Memo: Sample Number: S24081413-001

Test Graph



Data List

| N O. | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
|------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| 1 | 2377.930 | 13.85 | 27.21 | 3.56 | 0.00 | 44.62 | 74.00 | 29.38 | PK | Horizontal |
| 2 | 2390.000 | 10.51 | 27.26 | 3.57 | 0.00 | 41.34 | 74.00 | 32.66 | PK | Horizontal |

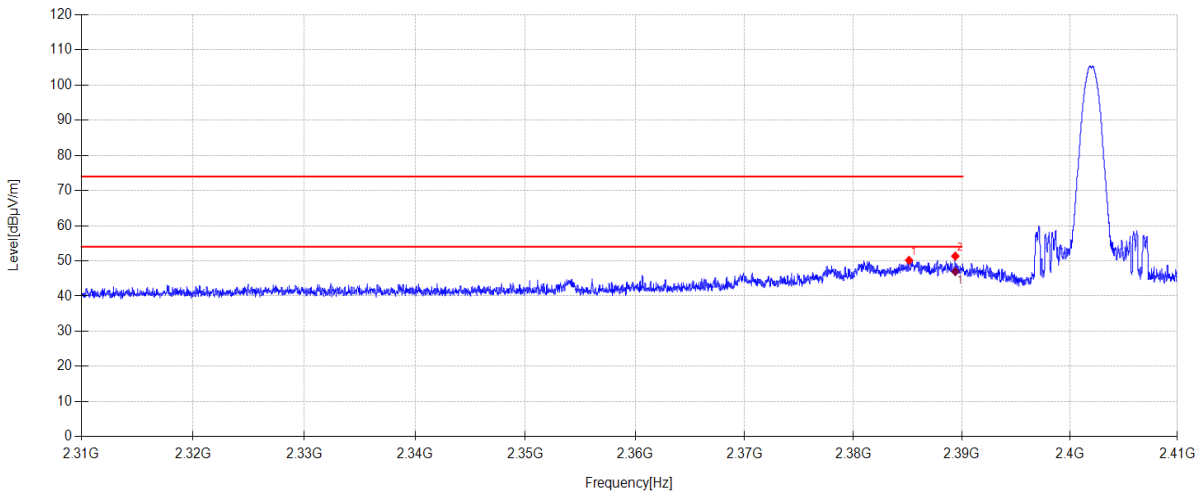
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2402MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\38
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2385.130 | 19.35 | 27.24 | 3.57 | 0.00 | 50.16 | 74.00 | 23.84 | PK | Vertical |
| 2 | 2389.400 | 20.53 | 27.26 | 3.57 | 0.00 | 51.36 | 74.00 | 22.64 | PK | Vertical |

| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------------|----------------|-------------|----------|----------|--|
| NO | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity | |
| 1 | 2389.400 | 16.13 | 27.26 | 3.57 | 46.96 | 54.00 | 7.04 | AV | Vertical | |

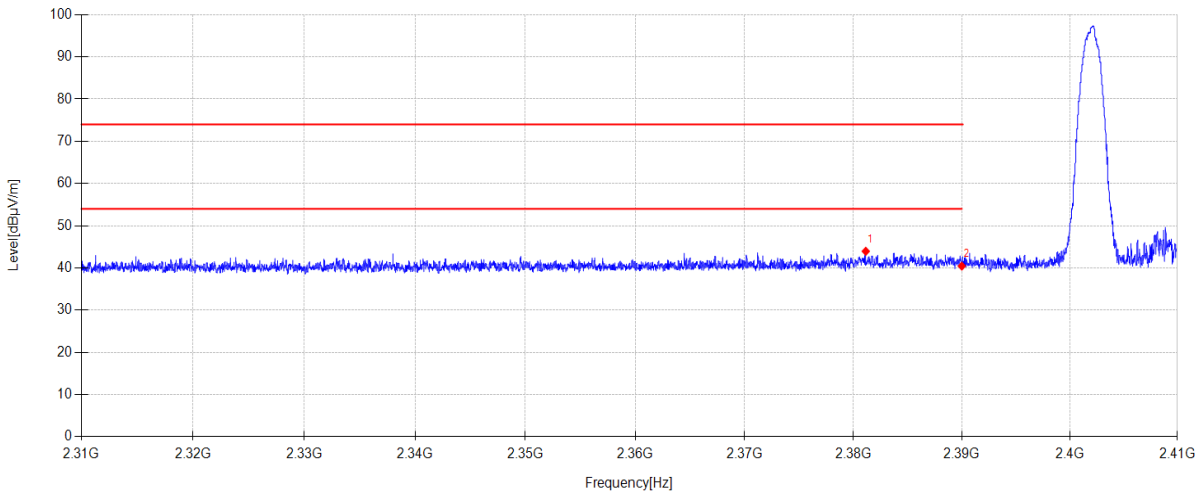
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: 2DH5 TX 2402MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\35
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2381.140 | 13.17 | 27.22 | 3.56 | 0.00 | 43.95 | 74.00 | 30.05 | PK | Horizontal |
| 2 | 2390.000 | 9.61 | 27.26 | 3.57 | 0.00 | 40.44 | 74.00 | 33.56 | PK | Horizontal |

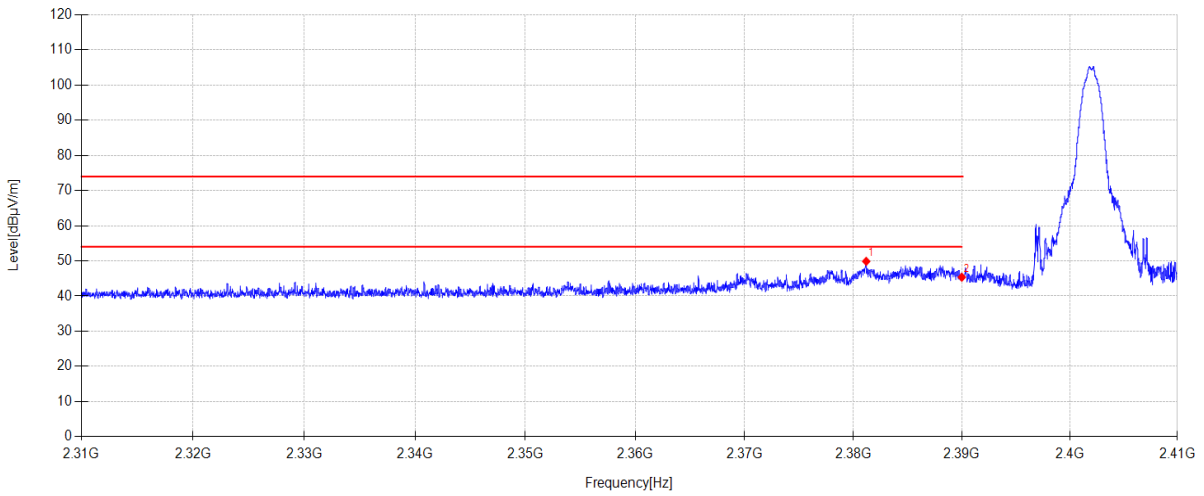
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: 2DH5 TX 2402MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\36
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2381.180 | 19.10 | 27.22 | 3.56 | 0.00 | 49.88 | 74.00 | 24.12 | PK | Vertical |
| 2 | 2390.000 | 14.55 | 27.26 | 3.57 | 0.00 | 45.38 | 74.00 | 28.62 | PK | Vertical |

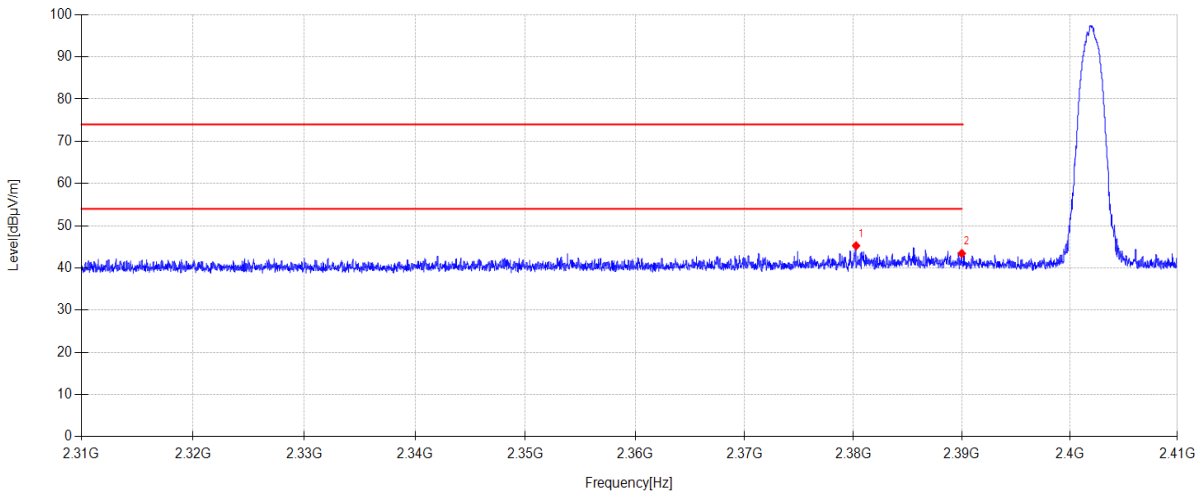
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: 3DH5 TX 2402MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\33
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2380.250 | 14.48 | 27.22 | 3.56 | 0.00 | 45.26 | 74.00 | 28.74 | PK | Horizontal |
| 2 | 2390.000 | 12.60 | 27.26 | 3.57 | 0.00 | 43.43 | 74.00 | 30.57 | PK | Horizontal |

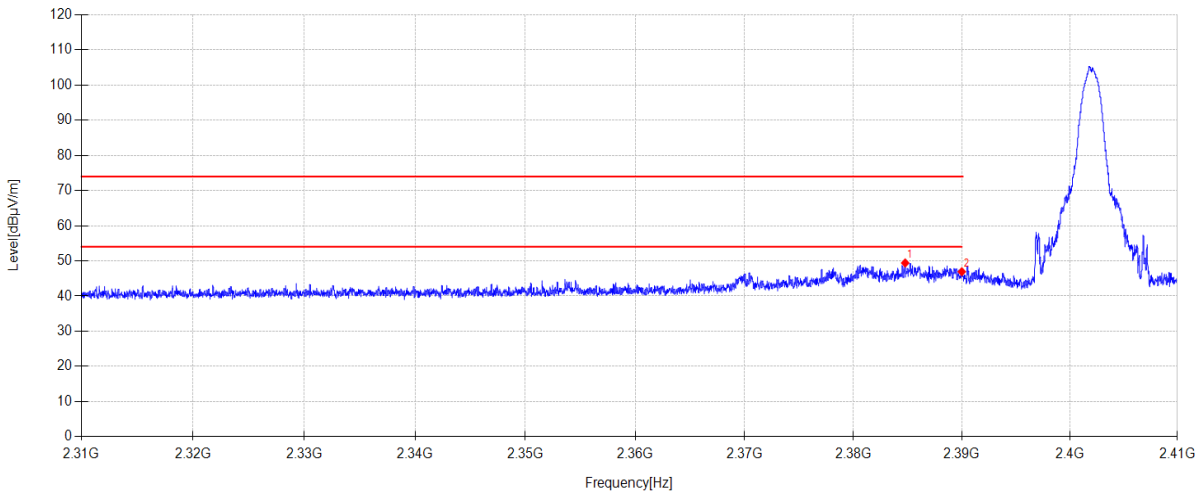
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: 3DH5 TX 2402MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\34
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2384.770 | 18.60 | 27.24 | 3.57 | 0.00 | 49.41 | 74.00 | 24.59 | PK | Vertical |
| 2 | 2390.000 | 16.10 | 27.26 | 3.57 | 0.00 | 46.93 | 74.00 | 27.07 | PK | Vertical |

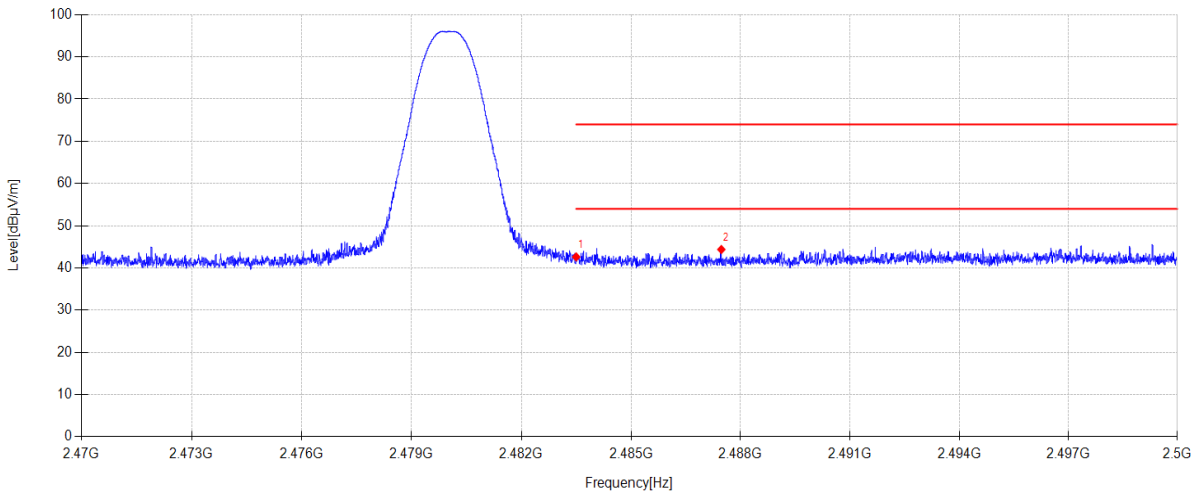
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2480MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\27
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | 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 | 11.47 | 27.53 | 3.62 | 0.00 | 42.62 | 74.00 | 31.38 | PK | Horizontal |
| 2 | 2487.475 | 13.20 | 27.55 | 3.62 | 0.00 | 44.37 | 74.00 | 29.63 | PK | Horizontal |

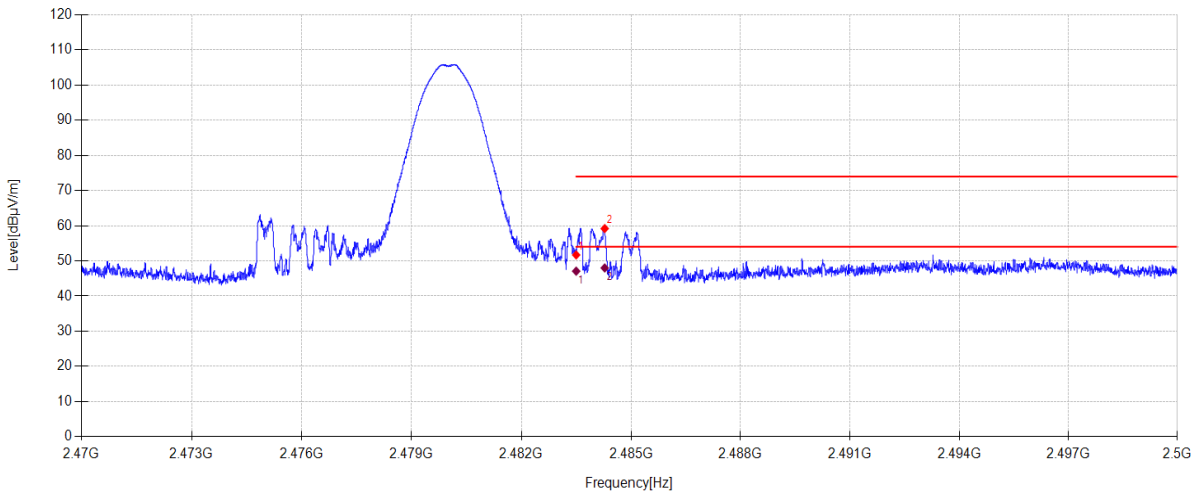
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: DH5 TX 2480MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\28
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | 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 | 20.54 | 27.53 | 3.62 | 0.00 | 51.69 | 74.00 | 22.31 | PK | Vertical |
| 2 | 2484.280 | 28.03 | 27.54 | 3.62 | 0.00 | 59.19 | 74.00 | 14.81 | PK | Vertical |

| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------------|----------------|-------------|----------|----------|--|
| NO | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity | |
| 1 | 2483.500 | 15.94 | 27.53 | 3.62 | 47.09 | 54.00 | 6.91 | AV | Vertical | |
| 2 | 2484.280 | 16.84 | 27.54 | 3.62 | 48.00 | 54.00 | 6.00 | AV | Vertical | |

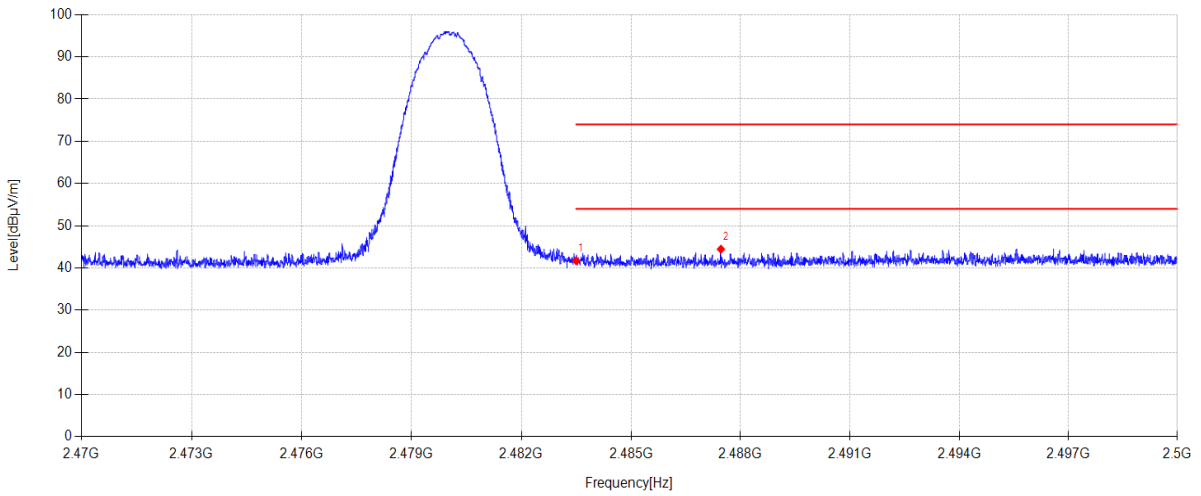
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: 2DH5 TX 2480MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\29
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | 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 | 10.56 | 27.53 | 3.62 | 0.00 | 41.71 | 74.00 | 32.29 | PK | Horizontal |
| 2 | 2487.463 | 13.27 | 27.55 | 3.62 | 0.00 | 44.44 | 74.00 | 29.56 | PK | Horizontal |

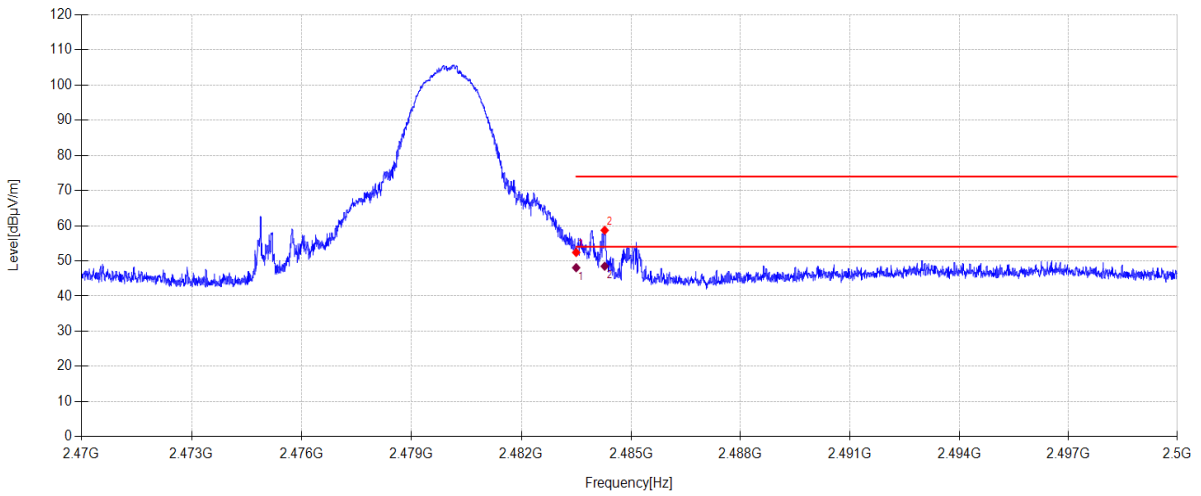
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: 2DH5 TX 2480MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\30
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | 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 | 21.25 | 27.53 | 3.62 | 0.00 | 52.40 | 74.00 | 21.60 | PK | Vertical |
| 2 | 2484.280 | 27.54 | 27.54 | 3.62 | 0.00 | 58.70 | 74.00 | 15.30 | PK | Vertical |

| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------------|----------------|-------------|----------|----------|--|
| NO | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity | |
| 1 | 2483.500 | 16.91 | 27.53 | 3.62 | 48.06 | 54.00 | 5.94 | AV | Vertical | |
| 2 | 2484.280 | 17.33 | 27.54 | 3.62 | 48.49 | 54.00 | 5.51 | AV | Vertical | |

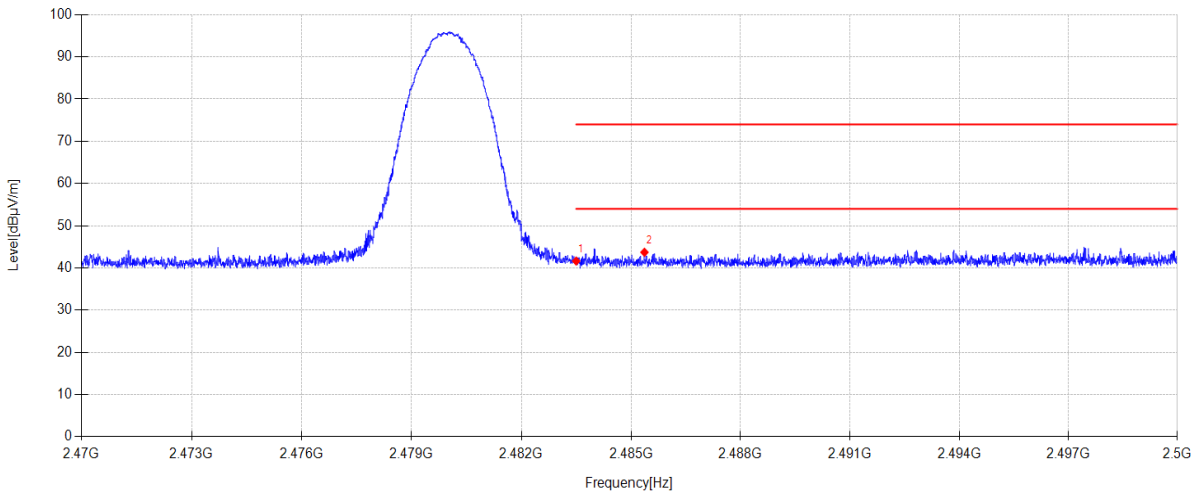
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: 3DH5 TX 2480MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\31
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | 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 | 10.49 | 27.53 | 3.62 | 0.00 | 41.64 | 74.00 | 32.36 | PK | Horizontal |
| 2 | 2485.369 | 12.55 | 27.54 | 3.62 | 0.00 | 43.71 | 74.00 | 30.29 | PK | Horizontal |

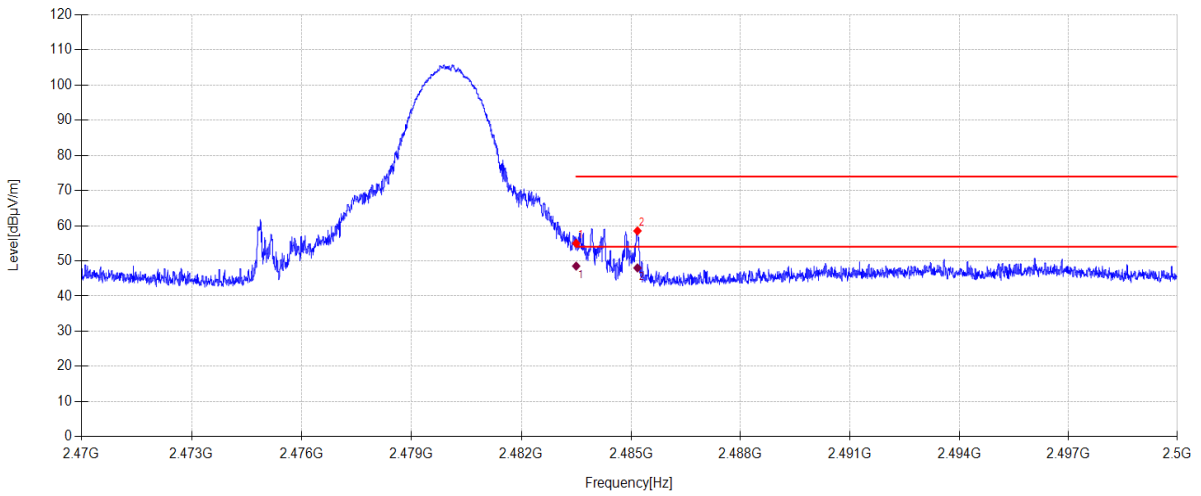
Note:

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: 2024-09-01 **Tested By:** Zhong Nan
EUT: Portable Bluetooth Speaker **Model Number:** CHARGE6G
Test Mode: 3DH5 TX 2480MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:51.0% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24081413-1E\FCC ABOVE1G\32
Memo: Sample Number: S24081413-001

Test Graph



| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | 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 | 23.84 | 27.53 | 3.62 | 0.00 | 54.99 | 74.00 | 19.01 | PK | Vertical |
| 2 | 2485.177 | 27.36 | 27.54 | 3.62 | 0.00 | 58.52 | 74.00 | 15.48 | PK | Vertical |

| Data List | | | | | | | | | | |
|-----------|-------------|------------------|---------------------|-----------------|----------------|----------------|-------------|----------|----------|--|
| NO . | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable loss [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity | |
| 1 | 2483.500 | 17.37 | 27.53 | 3.62 | 48.52 | 54.00 | 5.48 | AV | Vertical | |
| 2 | 2485.177 | 16.84 | 27.54 | 3.62 | 48.00 | 54.00 | 6.00 | AV | Vertical | |

Note:

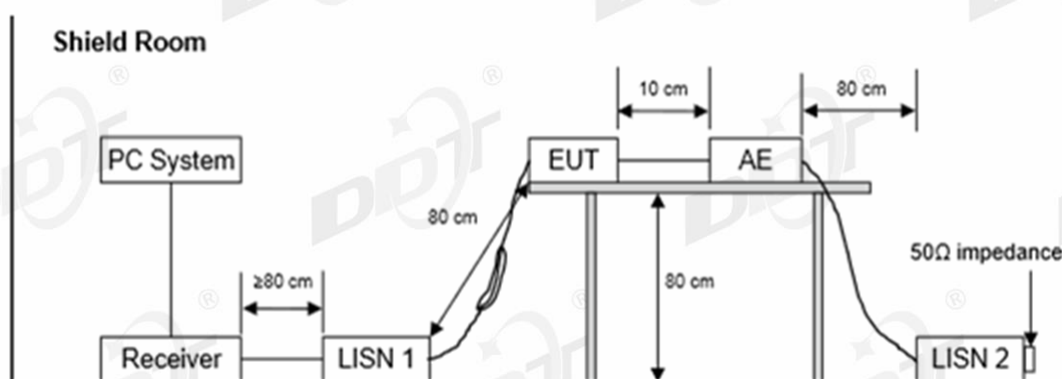
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

16. Power Line Conducted Emissions

16.1. Test equipment

| Equipment | Manufacturer | Model No. | Serial No. | Cal Due To |
|--------------------|-----------------|-----------|-------------|------------|
| CE Cable 1 | R&S | ESU8/RF2 | DDT-ZC00566 | 2025/07/08 |
| Artificial mains | R&S | ESH2-Z5 | DDT-ZC00538 | 2025/07/08 |
| Two Line V-Network | R&S | ENV216 | DDT-ZC00535 | 2025/07/08 |
| EMI Test Software | Audix/TW | e3 | DDT-ZC01252 | / |
| Pulse Limiter | SCHWARZBEC K | ESH3-Z2 | DDT-ZC00539 | 2025/07/08 |
| EMI Test Receiver | R&S | ESCI | DDT-ZC00235 | 2025/07/08 |

16.2. Block diagram of test setup



16.3. Limits

| Frequency | Quasi-Peak Level dB μ V | Average Level dB μ V |
|-----------------|--------------------------------|-----------------------------|
| 150 kHz~500 kHz | 66 ~ 56* | 56 ~ 46* |
| 500 kHz~5 MHz | 56 | 46 |
| 5 MHz~30 MHz | 60 | 50 |

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

16.4. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | Description | other |
|---------------------|--------------|--------------|------------------------|---|
| Adapter | HUAWEI | HW-100400C01 | Huawei Fast Charge 2 # | Input: 100-240V~50/60Hz, Output: 5V/2A or 9V/2A or 10V/4A MAX |

16.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

16.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “----” means Peak detection; “----” means Average detection.

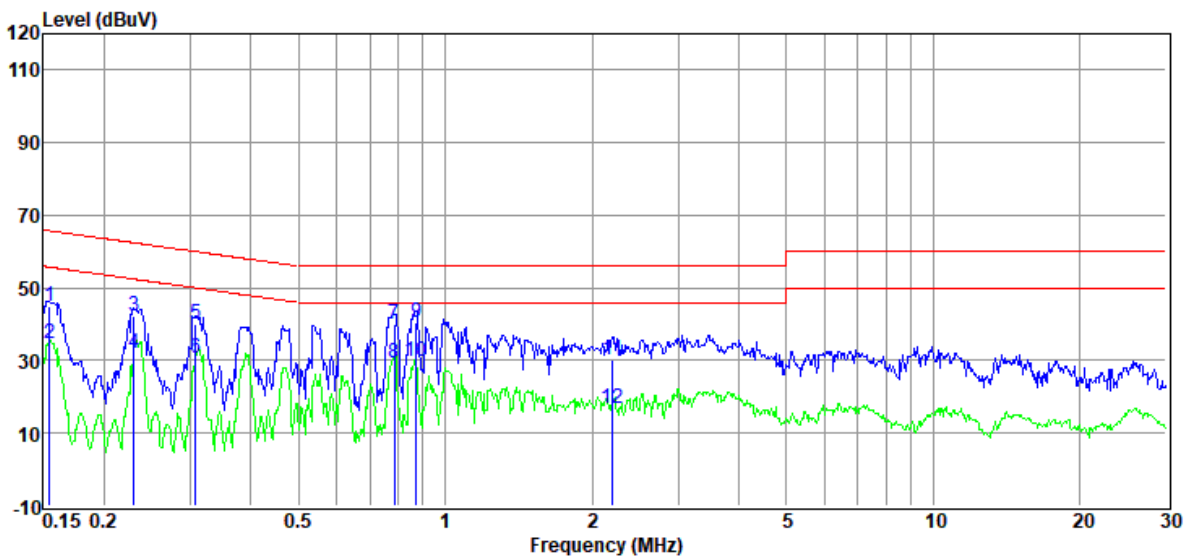
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

16.7. Test data

TR-4-E-010 Conducted Emission Test Result

| | | | |
|---------------------|-------------------------------|---|--------------------------|
| Test Site | : DDT 1# Shield Room | D:\2024 CE report data\Q24081413-1E\CE-FCC.EM6 | |
| Test Date | : 2024-09-20 | Tested By | : Gen Liu |
| EUT | : Portable Bluetooth Speaker | Model Number | : CHARGE6G |
| Power Supply | : AC 120V/60Hz | Test Mode | : Tx mode |
| Condition | : TEMP:21.5°C, RH:53.6% | LISN | : 2023 1# ENV216/NEUTRAL |
| Memo | : Sample Number:S24081413-016 | | |

Data: 2



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | LISN Factor (dB) | Cable Loss (dB) | Pulse Limiter Factor (dB) | Result Level (dBμV) | Limit Line (dBμV) | Over Limit (dB) | Detector | Phase |
|-------------|-------------|-------------------|------------------|-----------------|---------------------------|---------------------|-------------------|-----------------|----------|---------|
| 1 | 0.15 | 24.35 | 9.85 | 0.92 | 9.68 | 44.80 | 65.74 | -20.94 | QP | NEUTRAL |
| 2 | 0.15 | 14.19 | 9.85 | 0.92 | 9.68 | 34.64 | 55.74 | -21.10 | Average | NEUTRAL |
| 3 | 0.23 | 22.06 | 9.74 | 0.90 | 9.69 | 42.39 | 62.44 | -20.05 | QP | NEUTRAL |
| 4 | 0.23 | 11.75 | 9.74 | 0.90 | 9.69 | 32.08 | 52.44 | -20.36 | Average | NEUTRAL |
| 5 | 0.31 | 19.86 | 9.71 | 0.88 | 9.70 | 40.15 | 60.02 | -19.87 | QP | NEUTRAL |
| 6 | 0.31 | 10.36 | 9.71 | 0.88 | 9.70 | 30.65 | 50.02 | -19.37 | Average | NEUTRAL |
| 7 | 0.79 | 19.66 | 9.81 | 0.74 | 9.72 | 39.93 | 56.00 | -16.07 | QP | NEUTRAL |
| 8 | 0.79 | 8.97 | 9.81 | 0.74 | 9.72 | 29.24 | 46.00 | -16.76 | Average | NEUTRAL |
| 9 | 0.87 | 20.38 | 9.81 | 0.70 | 9.73 | 40.62 | 56.00 | -15.38 | QP | NEUTRAL |
| 10 | 0.87 | 9.71 | 9.81 | 0.70 | 9.73 | 29.95 | 46.00 | -16.05 | Average | NEUTRAL |
| 11 | 2.20 | 10.02 | 9.78 | 0.63 | 9.76 | 30.19 | 56.00 | -25.81 | QP | NEUTRAL |
| 12 | 2.20 | -3.50 | 9.78 | 0.63 | 9.76 | 16.67 | 46.00 | -29.33 | Average | NEUTRAL |

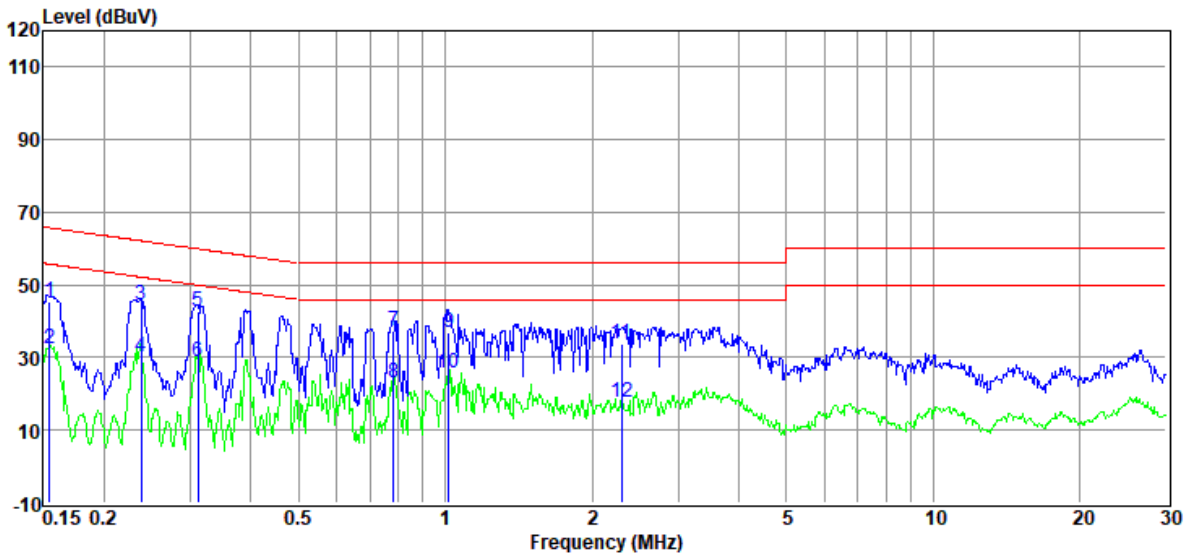
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room D:\2024 CE report data\Q24081413-1E\CE-FCC.EM6
Test Date : 2024-09-20 **Tested By** : Gen Liu
EUT : Portable Bluetooth Speaker **Model Number** : CHARGE6G
Power Supply : AC 120V/60Hz **Test Mode** : Tx mode
Condition : TEMP:21.5°C, RH:53.6% **LISN** : 2023 1# ENV216/LINE
Memo : Sample Number:S24081413-016

Data: 4



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | LISN Factor (dB) | Cable Loss (dB) | Pulse Limiter Factor (dB) | Result Level (dBμV) | Limit Line (dBμV) | Over Limit (dB) | Detector | Phase |
|-------------|-------------|-------------------|------------------|-----------------|---------------------------|---------------------|-------------------|-----------------|----------|-------|
| 1 | 0.15 | 24.96 | 9.82 | 0.92 | 9.68 | 45.38 | 65.74 | -20.36 | QP | LINE |
| 2 | 0.15 | 12.21 | 9.82 | 0.92 | 9.68 | 32.63 | 55.74 | -23.11 | Average | LINE |
| 3 | 0.24 | 23.98 | 9.81 | 0.90 | 9.69 | 44.38 | 62.17 | -17.79 | QP | LINE |
| 4 | 0.24 | 9.87 | 9.81 | 0.90 | 9.69 | 30.27 | 52.17 | -21.90 | Average | LINE |
| 5 | 0.31 | 22.18 | 9.79 | 0.88 | 9.70 | 42.55 | 59.93 | -17.38 | QP | LINE |
| 6 | 0.31 | 8.70 | 9.79 | 0.88 | 9.70 | 29.07 | 49.93 | -20.86 | Average | LINE |
| 7 | 0.78 | 17.14 | 9.81 | 0.74 | 9.72 | 37.41 | 56.00 | -18.59 | QP | LINE |
| 8 | 0.78 | 2.62 | 9.81 | 0.74 | 9.72 | 22.89 | 46.00 | -23.11 | Average | LINE |
| 9 | 1.02 | 16.82 | 9.64 | 0.67 | 9.73 | 36.86 | 56.00 | -19.14 | QP | LINE |
| 10 | 1.02 | 5.61 | 9.64 | 0.67 | 9.73 | 25.65 | 46.00 | -20.35 | Average | LINE |
| 11 | 2.30 | 13.72 | 9.78 | 0.62 | 9.76 | 33.88 | 56.00 | -22.12 | QP | LINE |
| 12 | 2.30 | -2.40 | 9.78 | 0.62 | 9.76 | 17.76 | 46.00 | -28.24 | Average | LINE |

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

18. Photos of the EUT

Please refer to DDT-Q24081413-2E appendix I

-----End Report-----