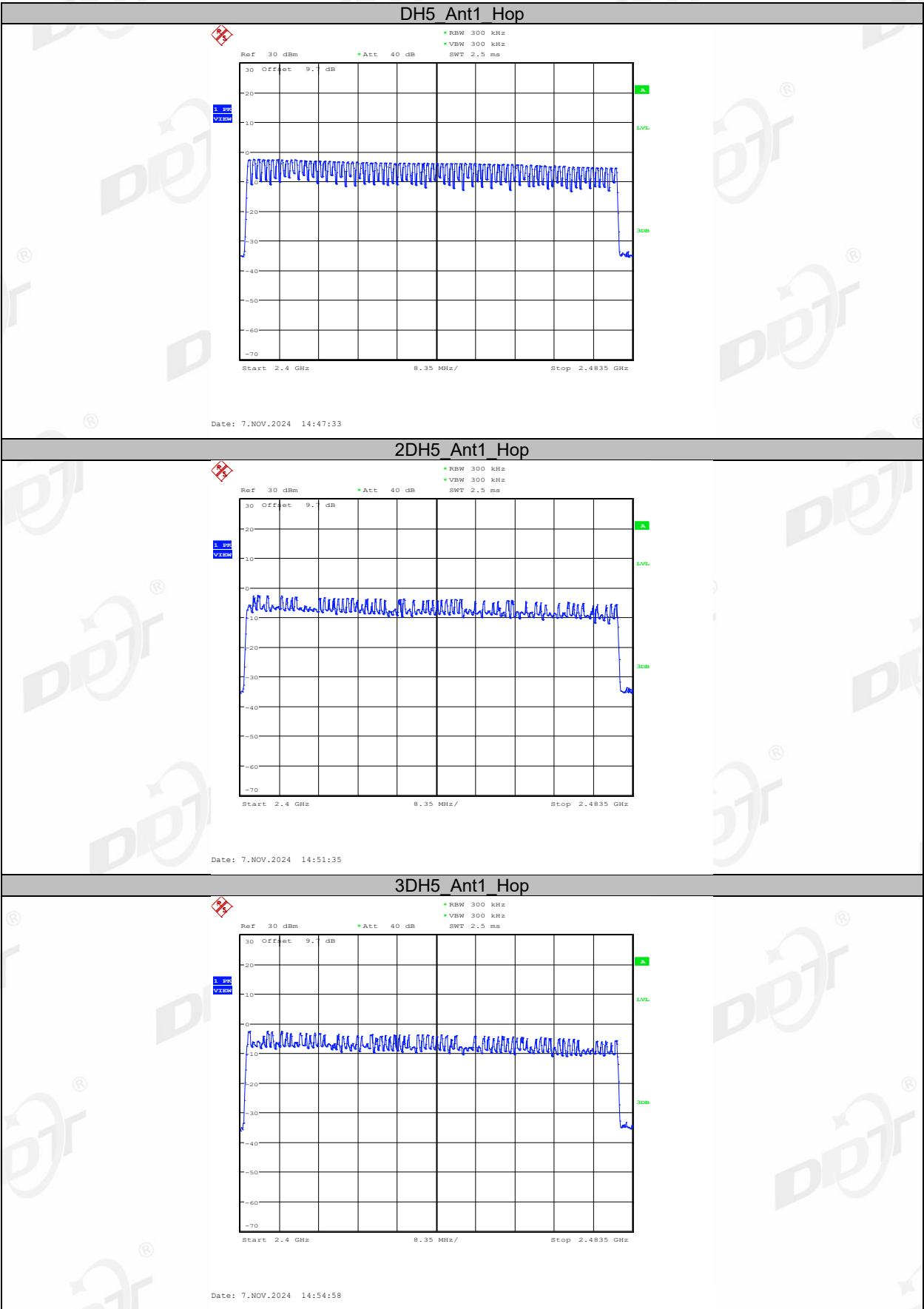
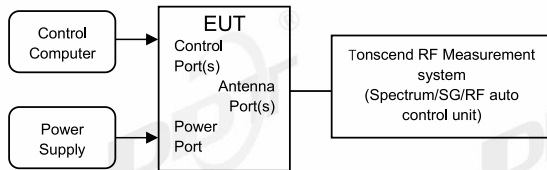


9.5.Test graphs



## 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:

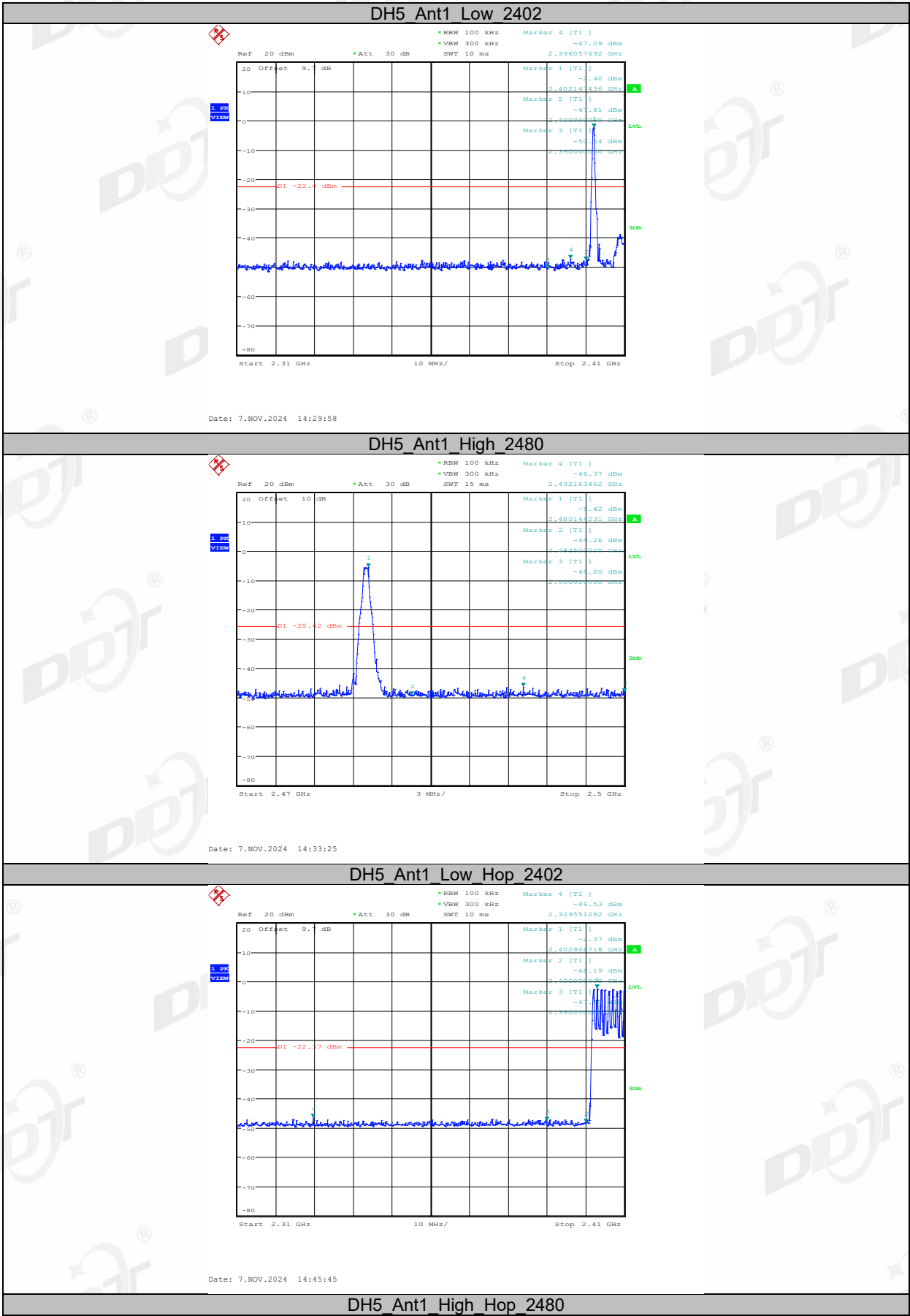
|                |                                          |
|----------------|------------------------------------------|
| RBW:           | 100 kHz                                  |
| VBW:           | 300 kHz                                  |
| Span           | Encompass frequency range to be measured |
| 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.

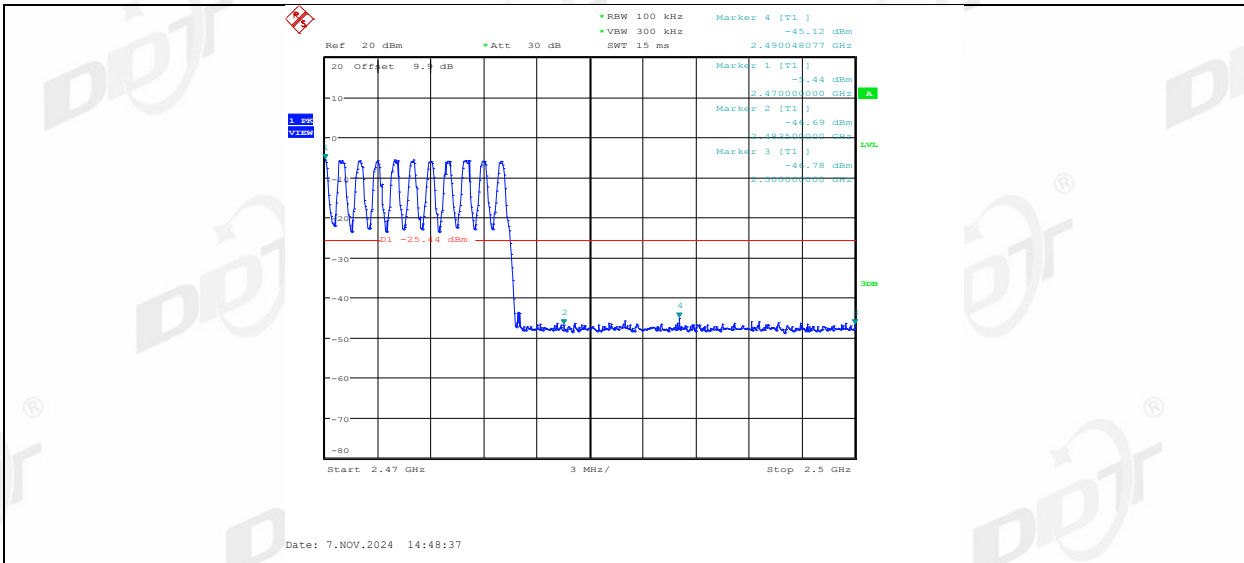
10.4. Test result

|                    |             |                |                          |
|--------------------|-------------|----------------|--------------------------|
| Test Engineer:     | Zora Zhang  | Test Site:     | RF Measurement System 1# |
| Ambient Condition: | 24.9℃,52%RH | Test Date:     | 2024.10.17-2024.11.14    |
| Test Power Supply: | battery     | Sample Number: | S24092711-001            |

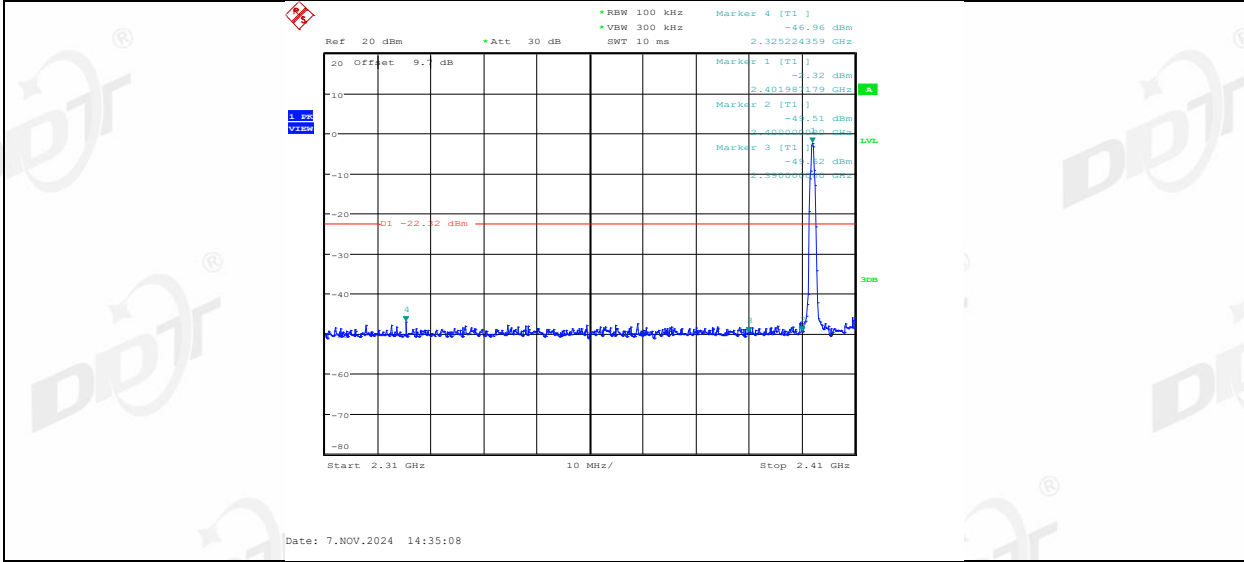
| Mode           | Freq. (MHz)      | Verdict |
|----------------|------------------|---------|
| GFSK           | Hopping off 2402 | Pass    |
|                | Hopping off 2480 | Pass    |
|                | Hopping on       | Pass    |
| $\pi$ /4-DQPSK | Hopping off 2402 | Pass    |
|           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

10.5. Test graphs

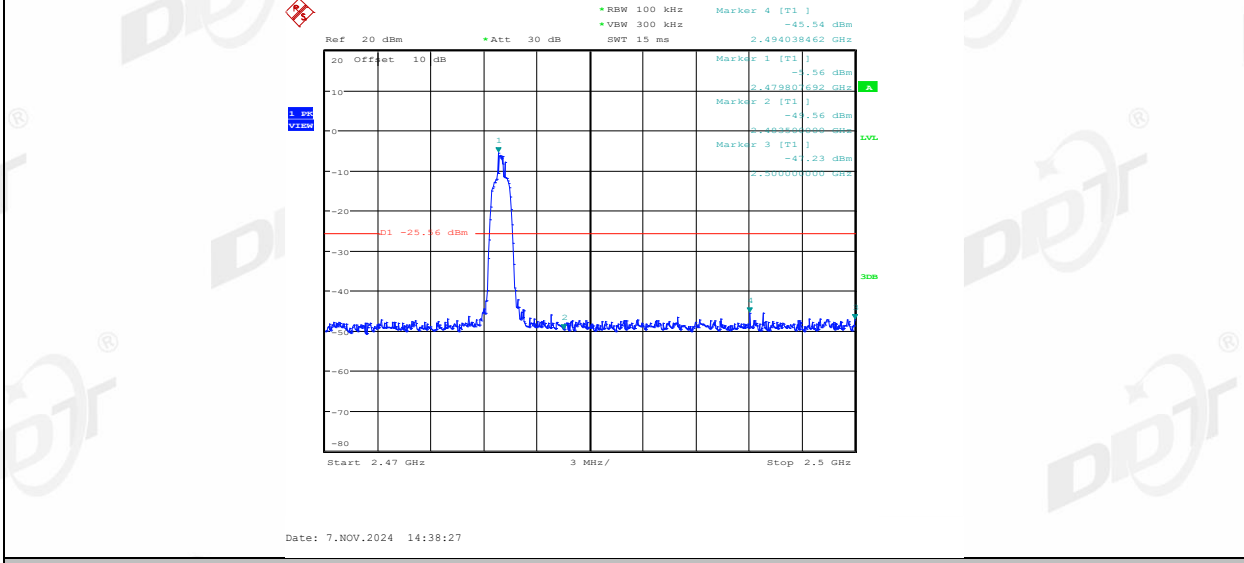




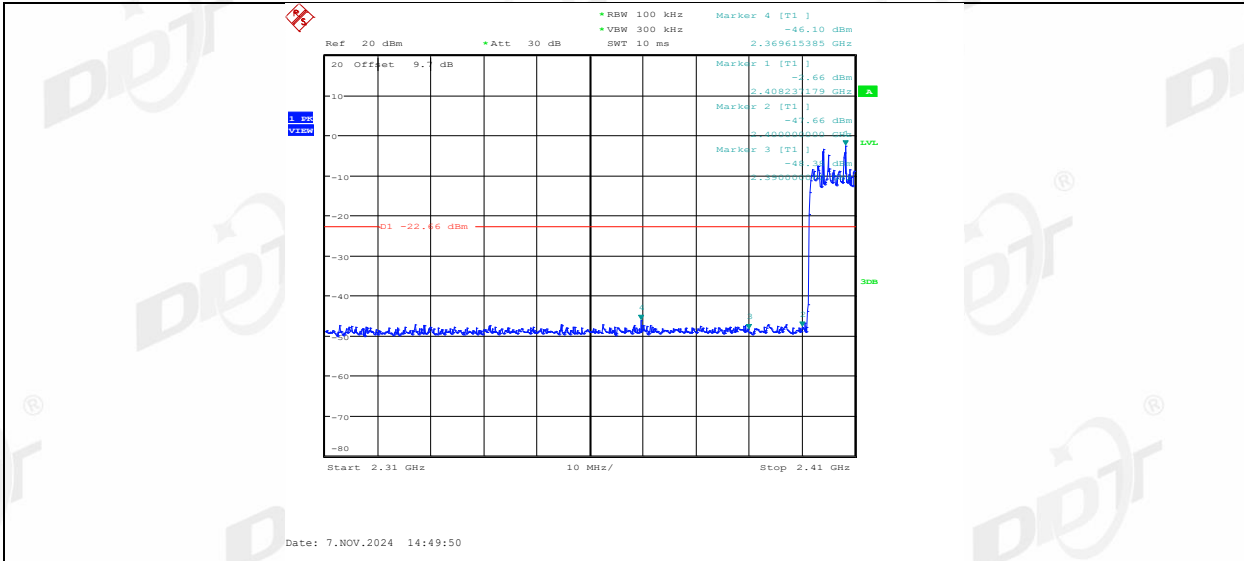
2DH5\_Ant1\_Low\_2402



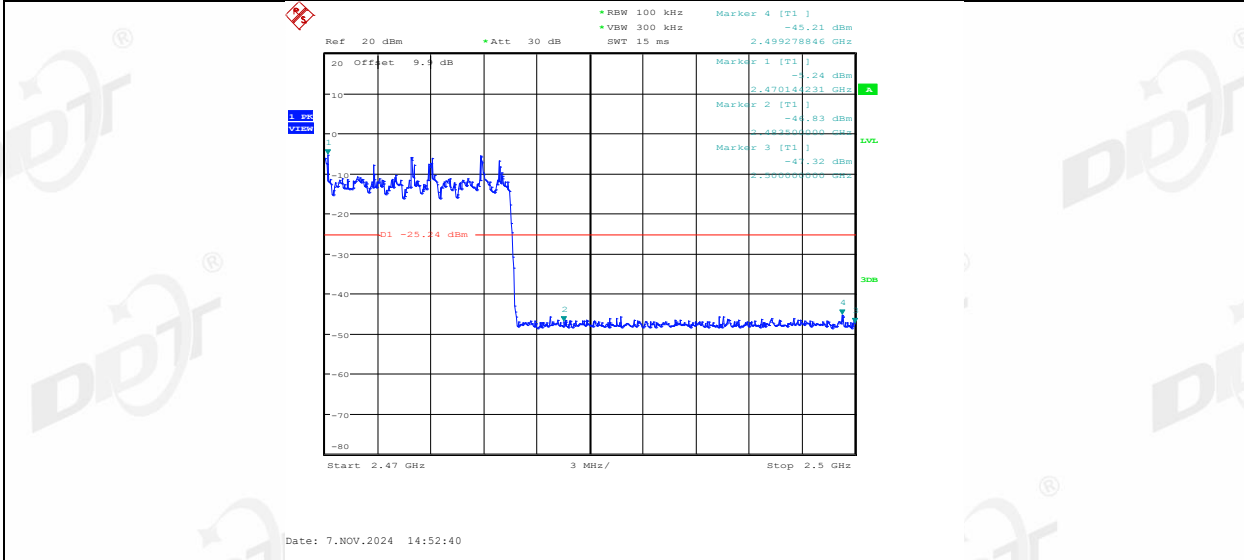
2DH5\_Ant1\_High\_2480



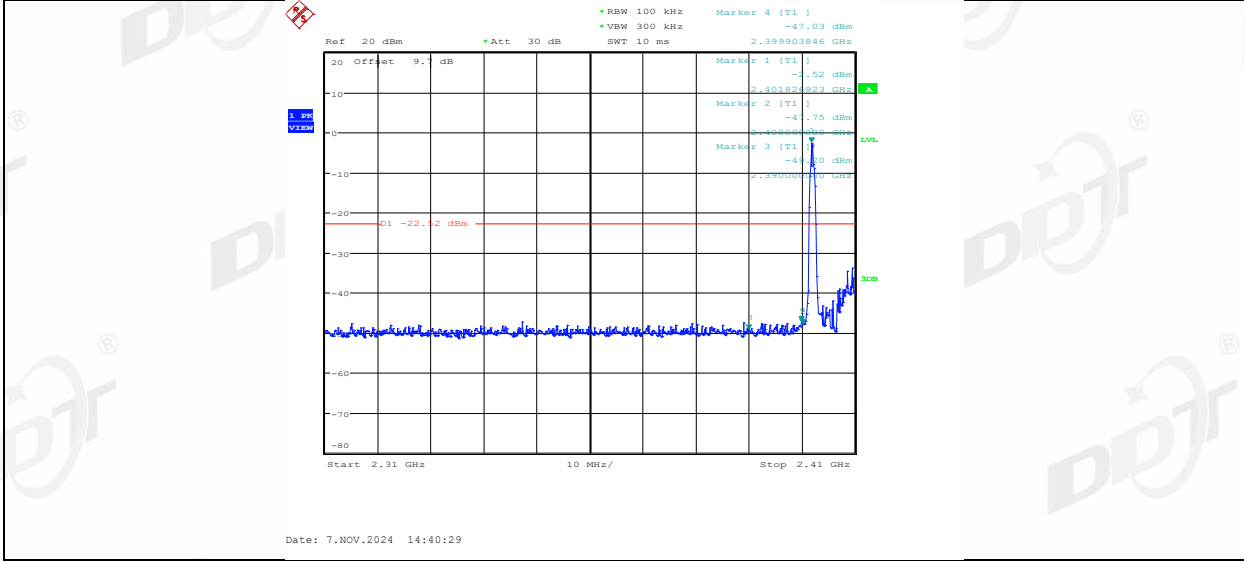
2DH5\_Ant1\_Low\_Hop\_2402



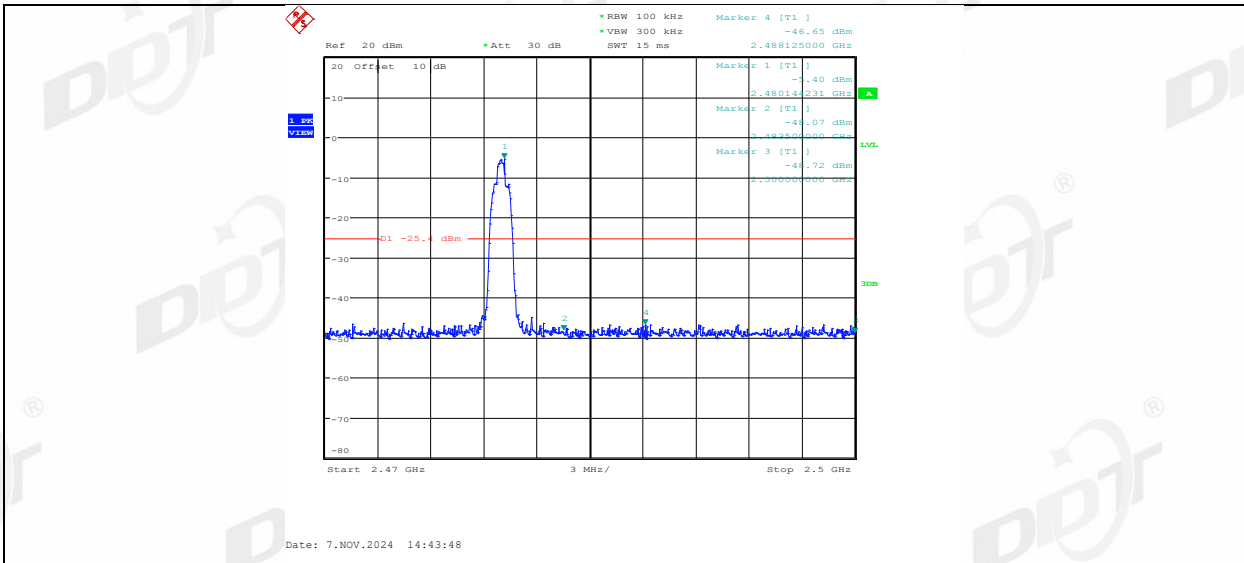
2DH5\_Ant1\_High\_Hop\_2480



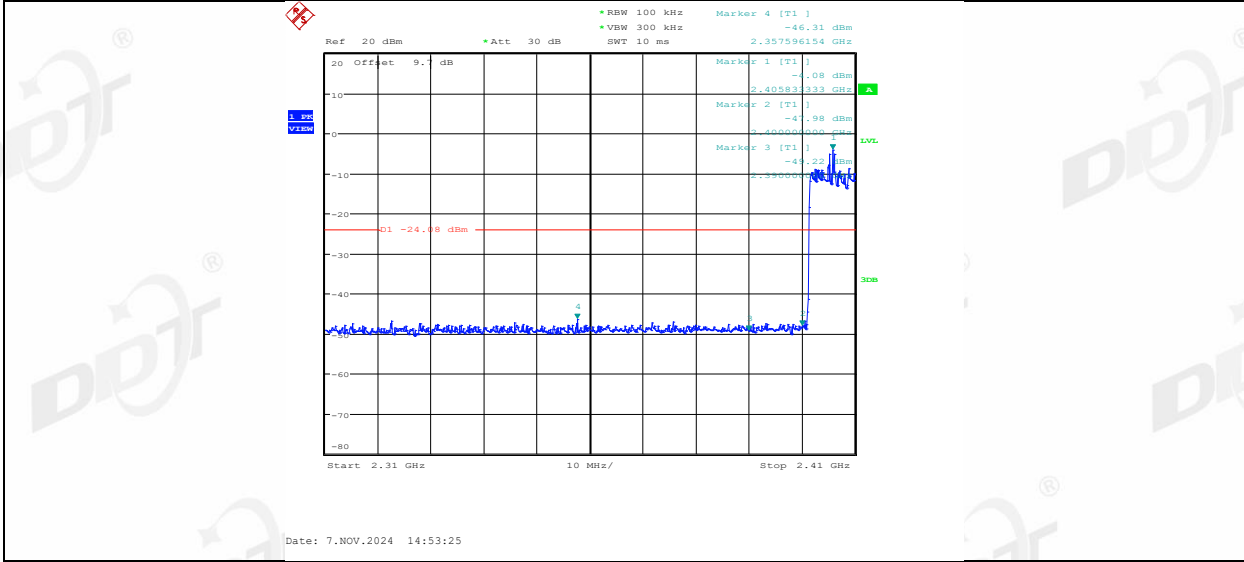
3DH5\_Ant1\_Low\_2402



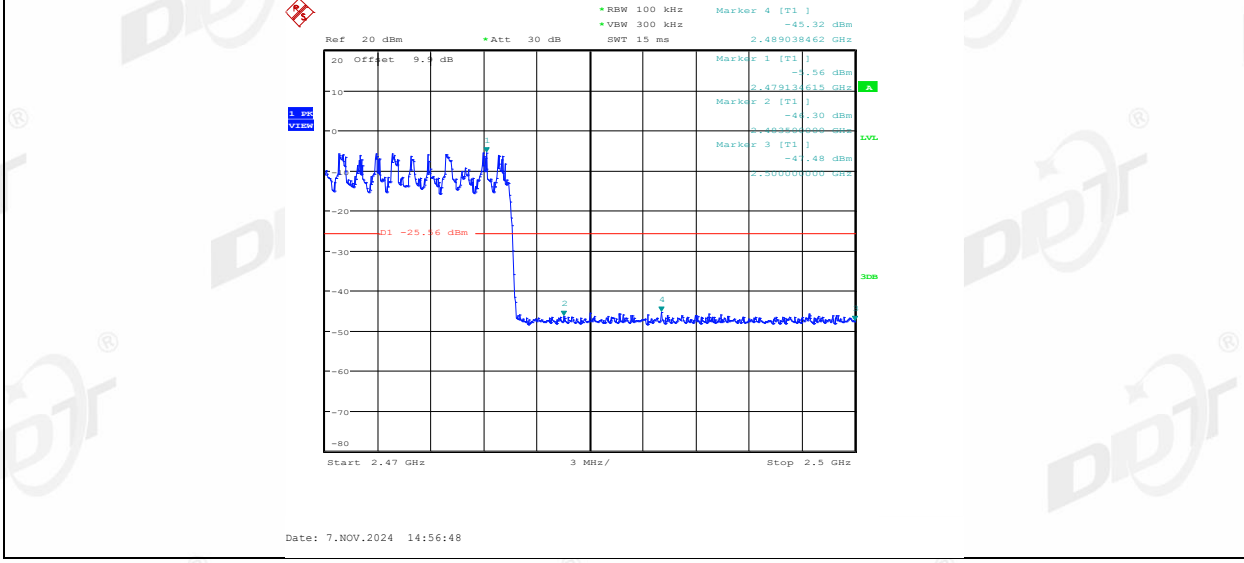
3DH5\_Ant1\_High\_2480



3DH5\_Ant1\_Low\_Hop\_2402

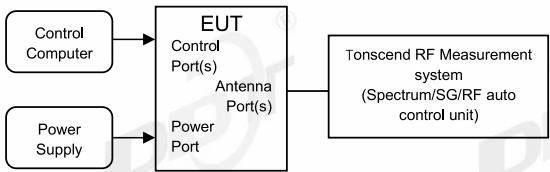


3DH5\_Ant1\_High\_Hop\_2480



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                                 |

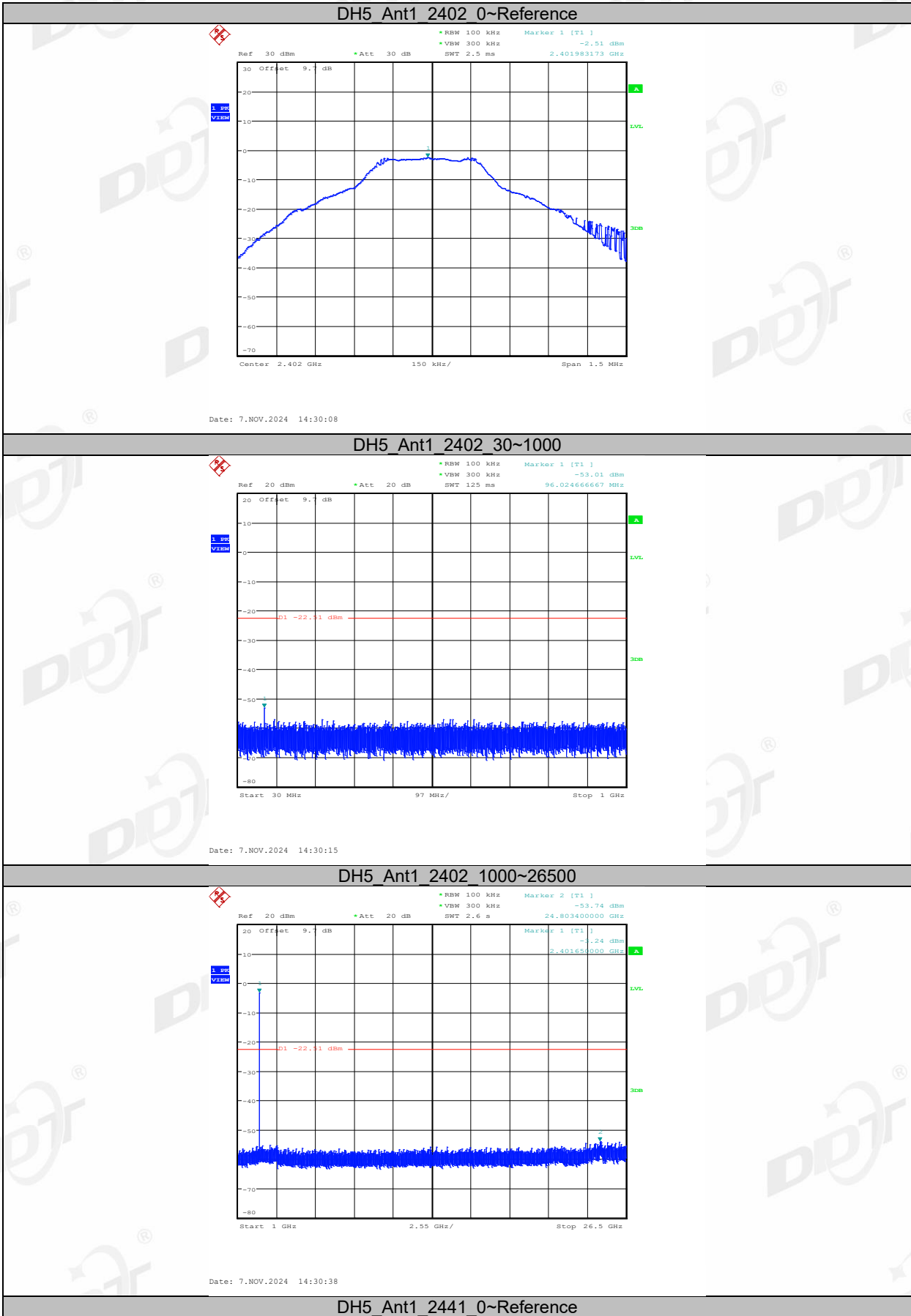
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

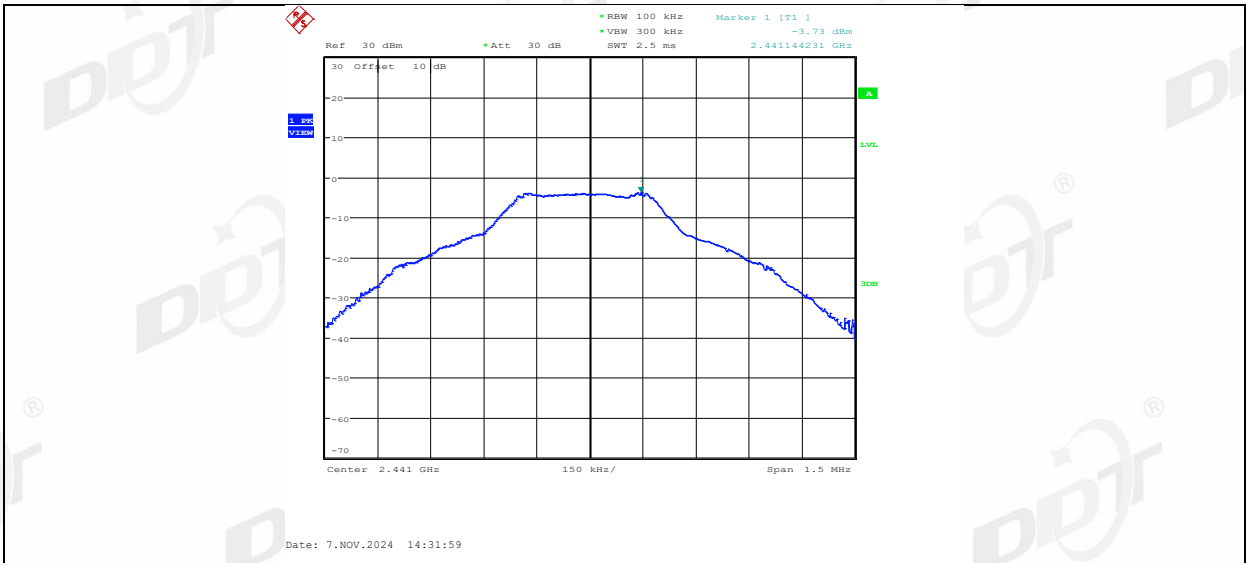
11.4. Test result

|                    |             |                |                          |
|--------------------|-------------|----------------|--------------------------|
| Test Engineer:     | Zora Zhang  | Test Site:     | RF Measurement System 1# |
| Ambient Condition: | 24.9℃,52%RH | Test Date:     | 2024.10.17-2024.11.14    |
| Test Power Supply: | battery     | Sample Number: | S24092711-001            |

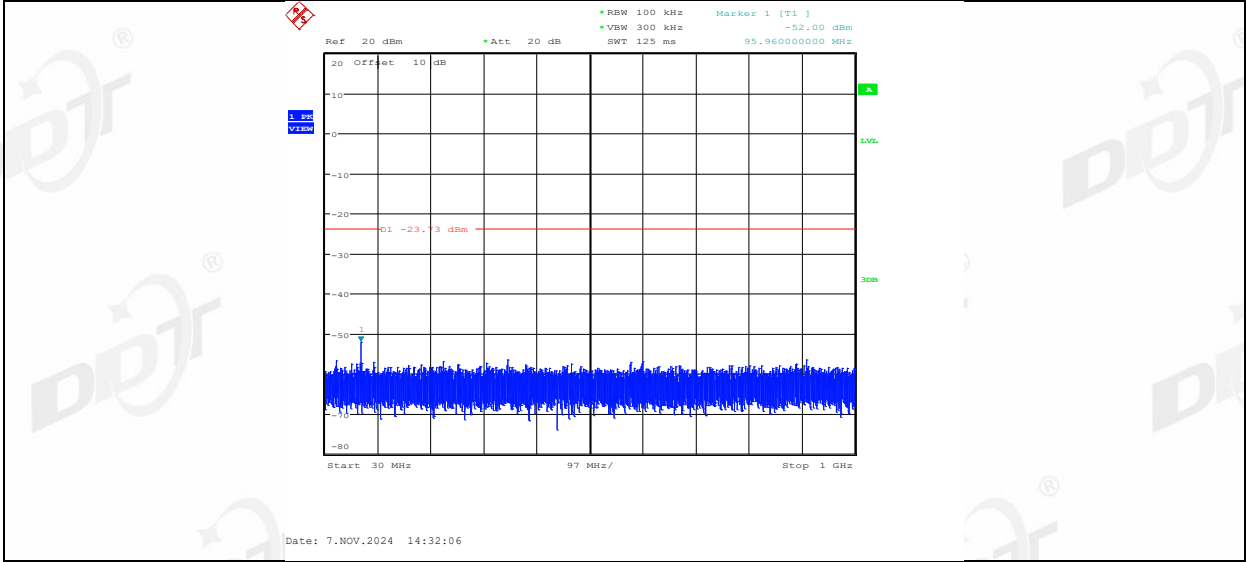
| Mode           | Freq. (MHz)      | Verdict |
|----------------|------------------|---------|
| GFSK           | Hopping off 2402 | Pass    |
|                | Hopping off 2441 | Pass    |
|                | Hopping off 2480 | Pass    |
| $\pi/4$ -DQPSK | Hopping off 2402 | Pass    |
|           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

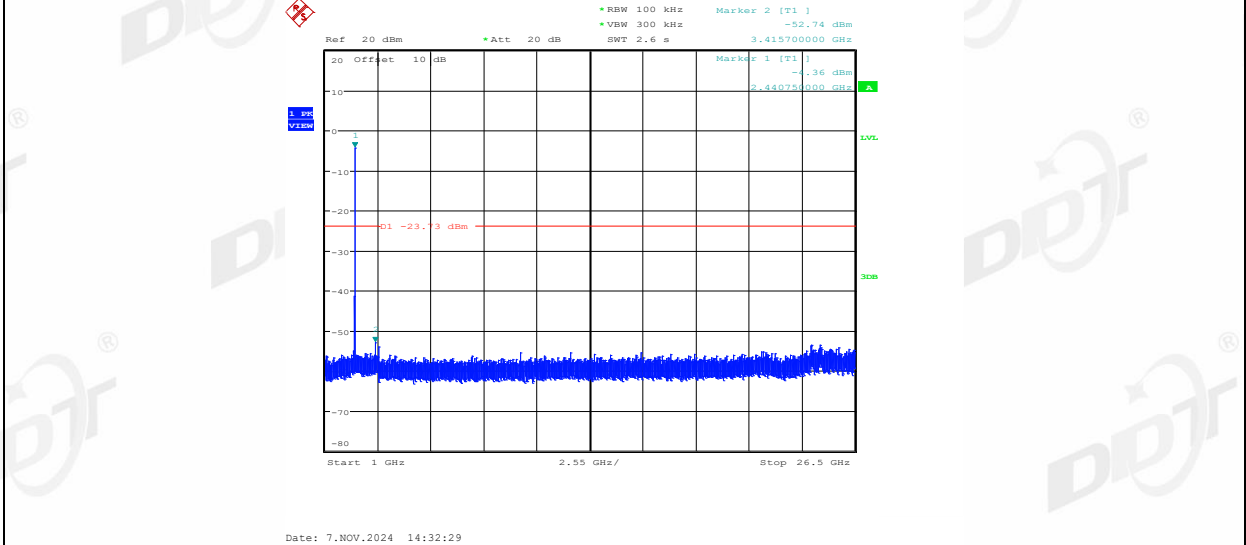




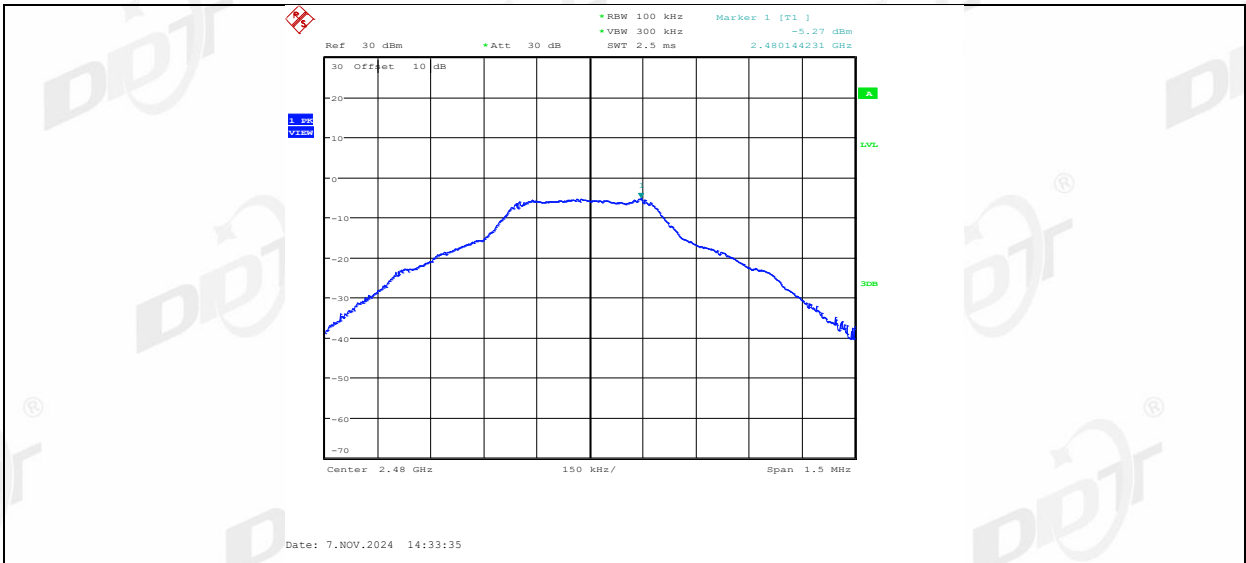
DH5\_Ant1\_2441\_30~1000



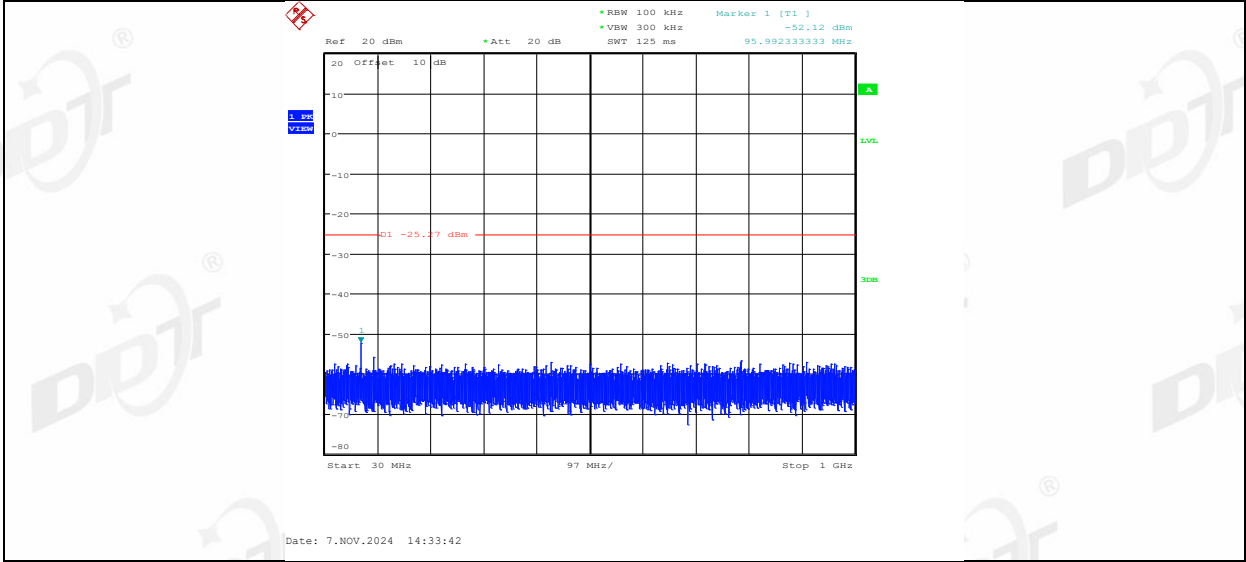
DH5\_Ant1\_2441\_1000~26500



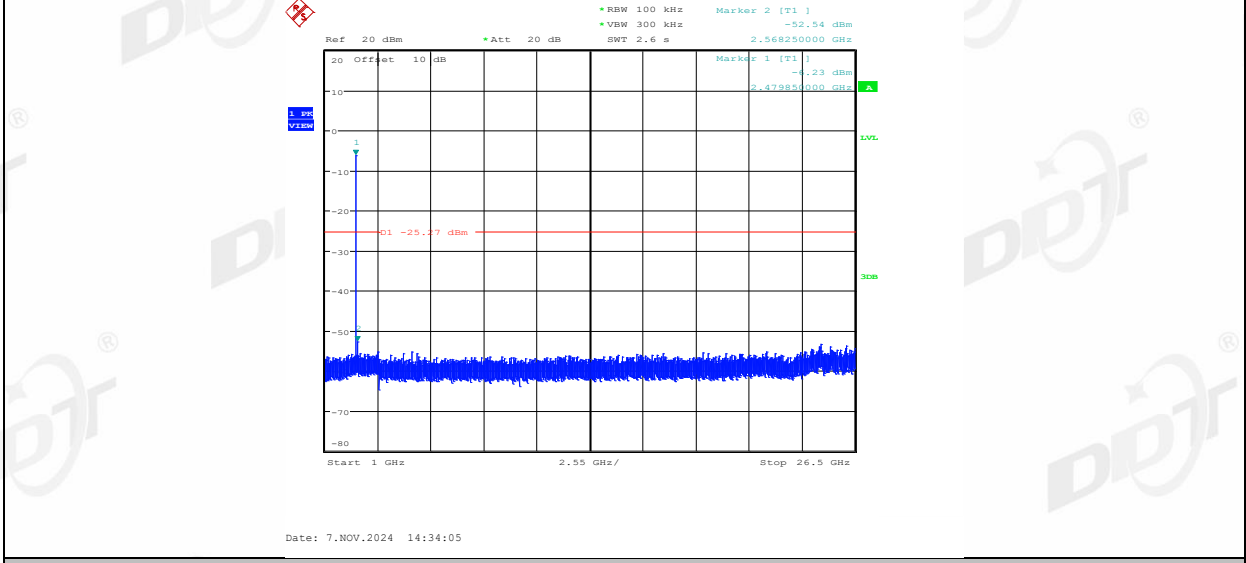
DH5\_Ant1\_2480\_0~Reference



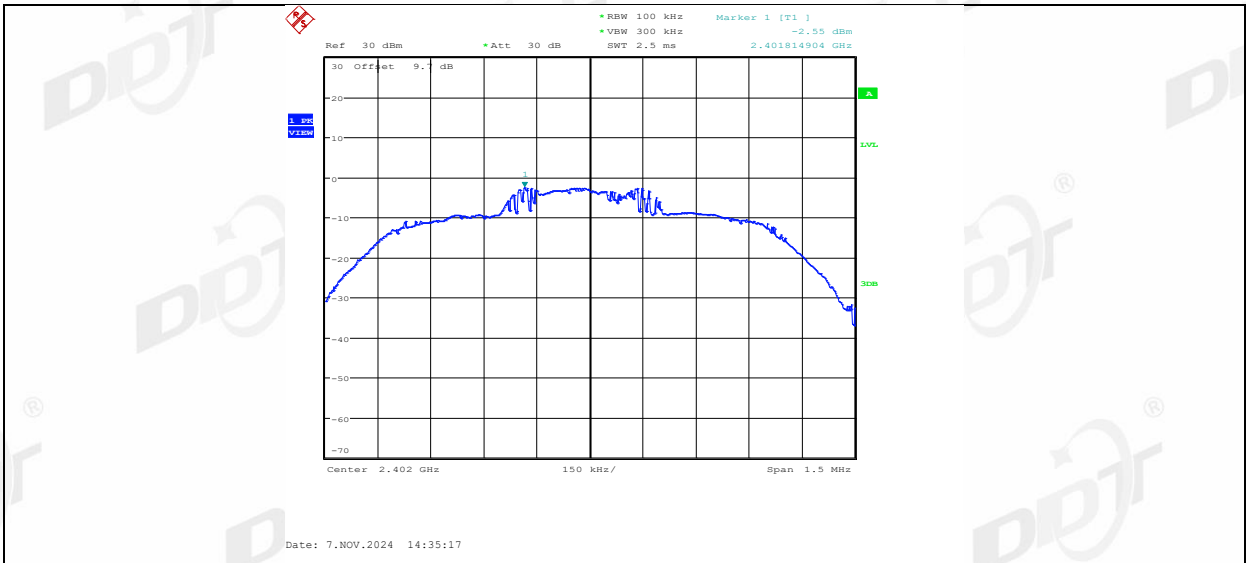
DH5\_Ant1\_2480\_30~1000



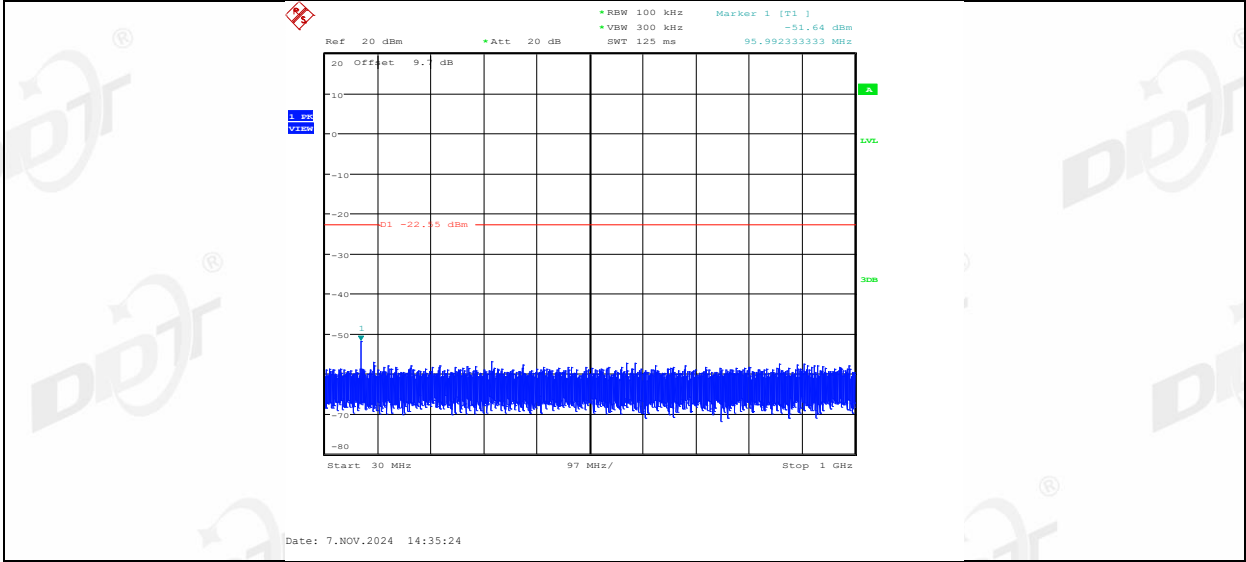
DH5\_Ant1\_2480\_1000~26500



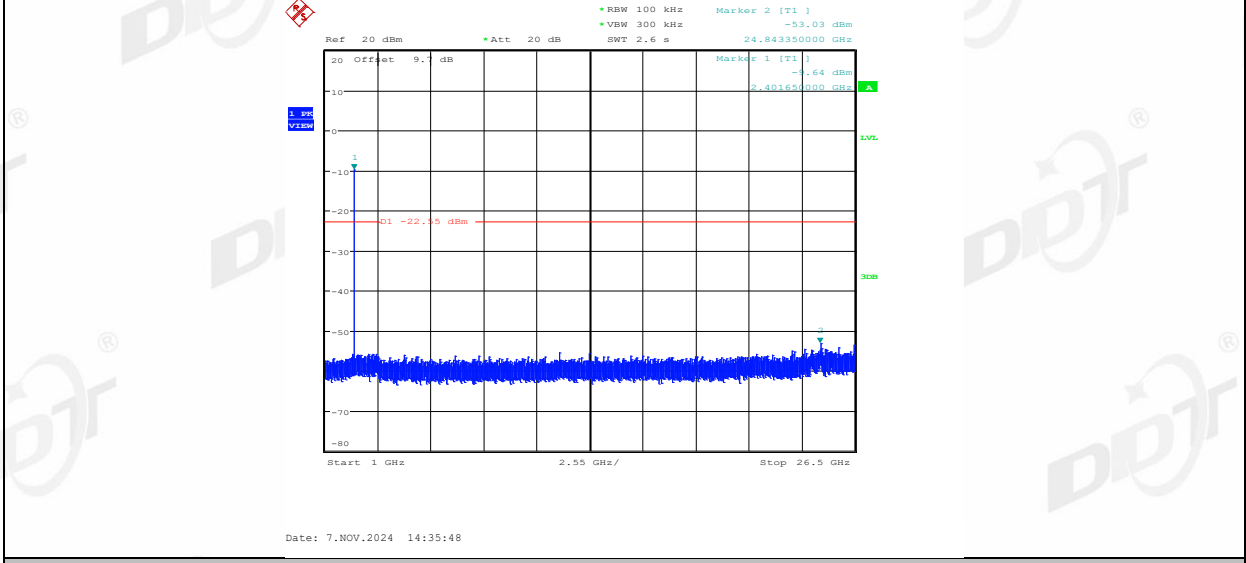
2DH5\_Ant1\_2402\_0~Reference



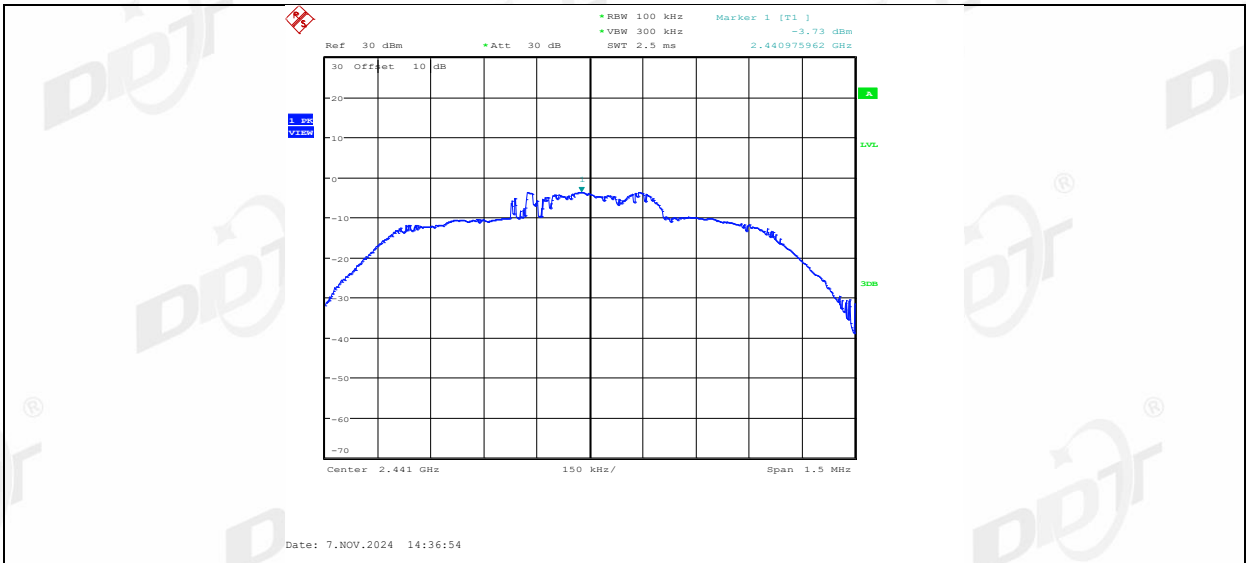
2DH5\_Ant1\_2402\_30~1000



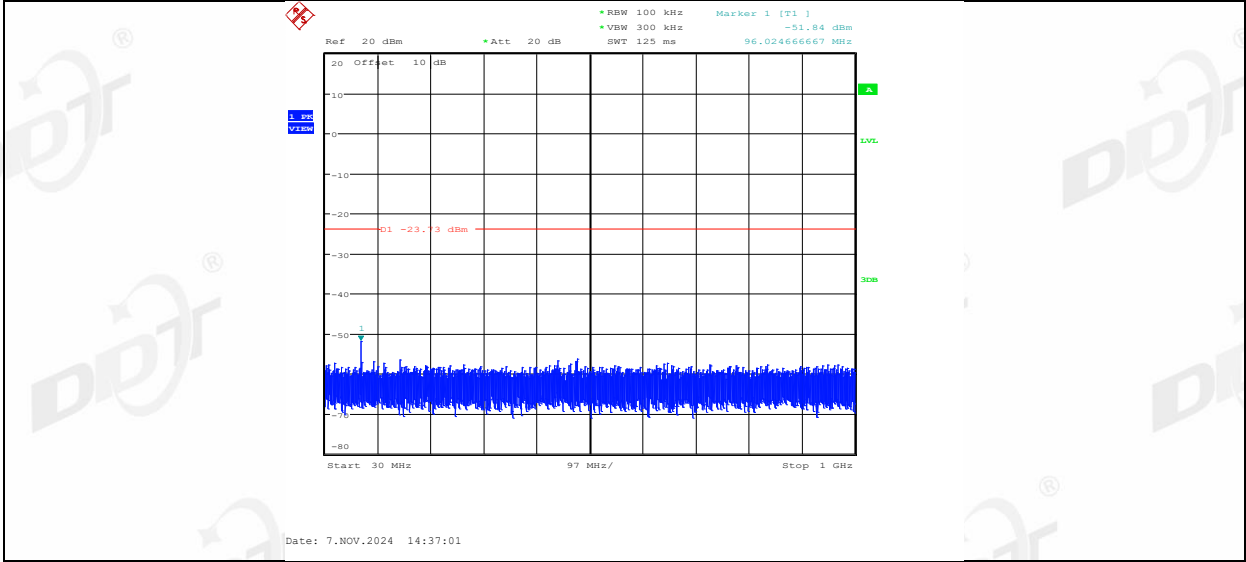
2DH5\_Ant1\_2402\_1000~26500



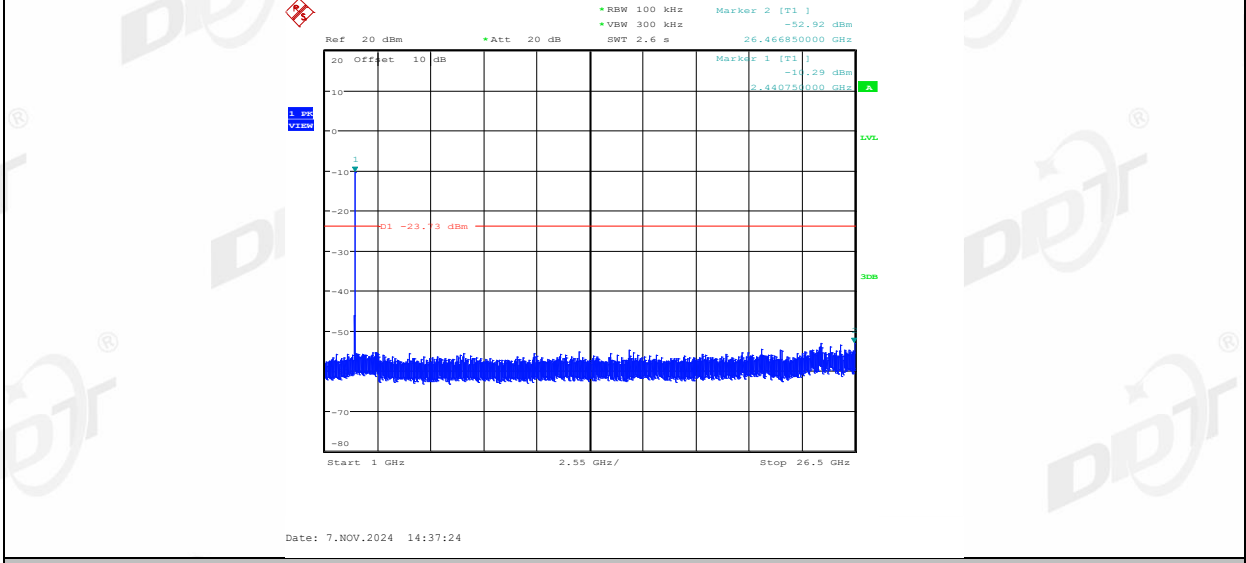
2DH5\_Ant1\_2441\_0~Reference



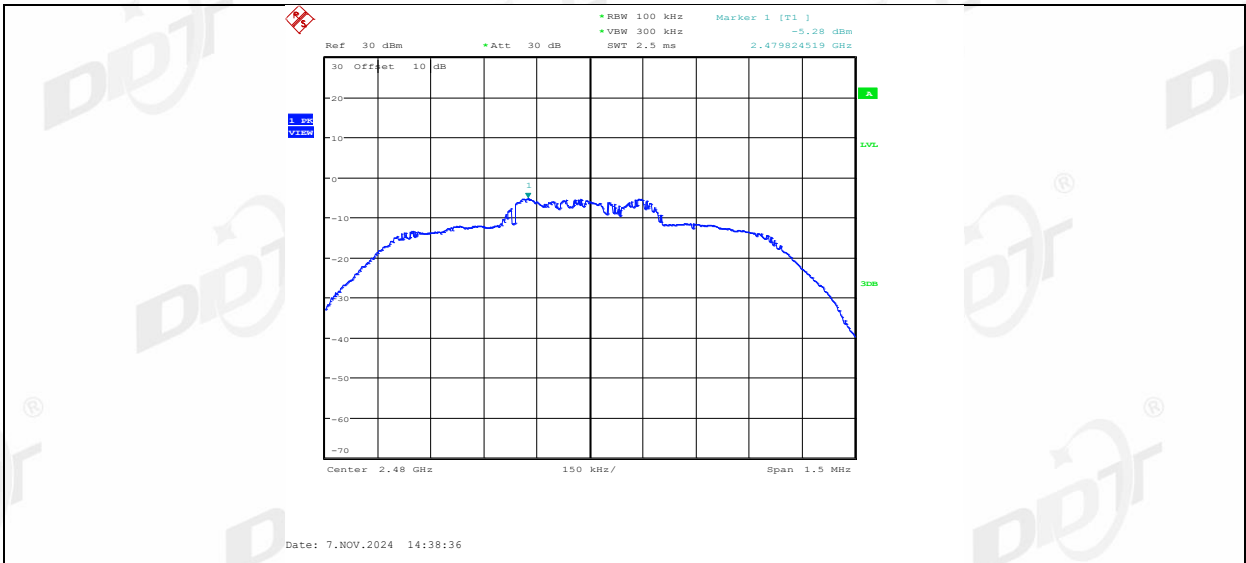
2DH5\_Ant1 2441\_30~1000



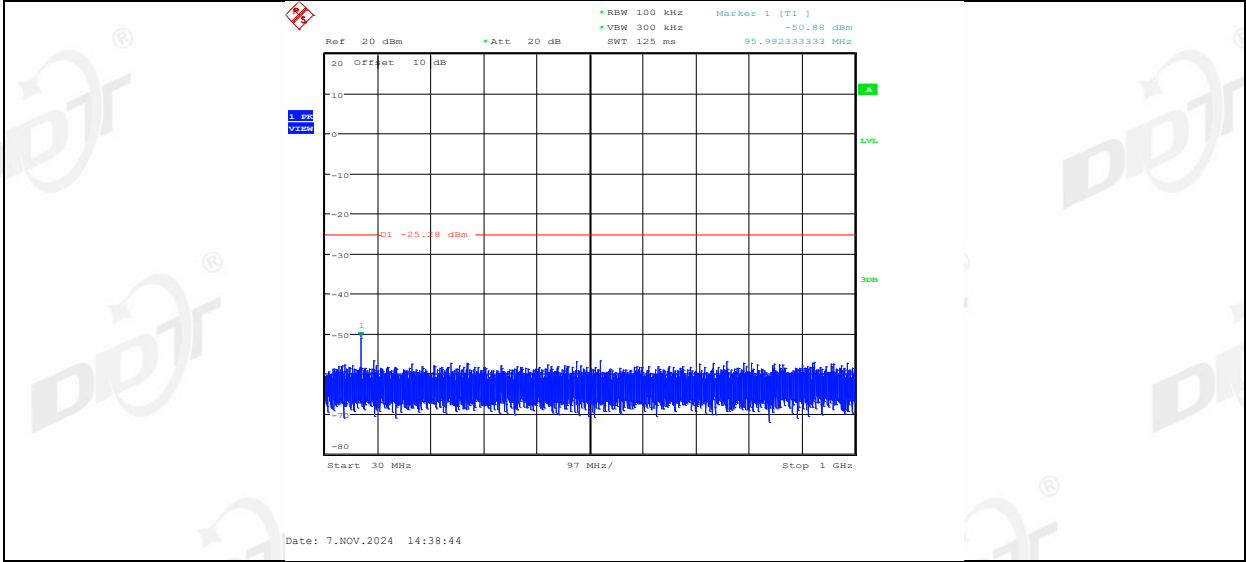
2DH5\_Ant1 2441\_1000~26500



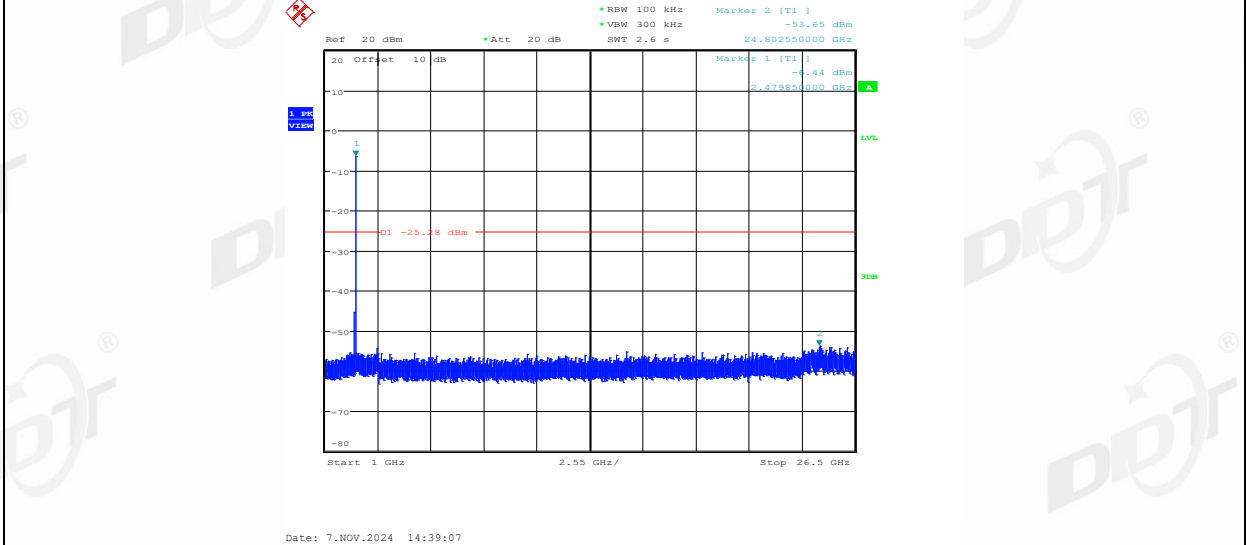
2DH5\_Ant1 2480\_0~Reference



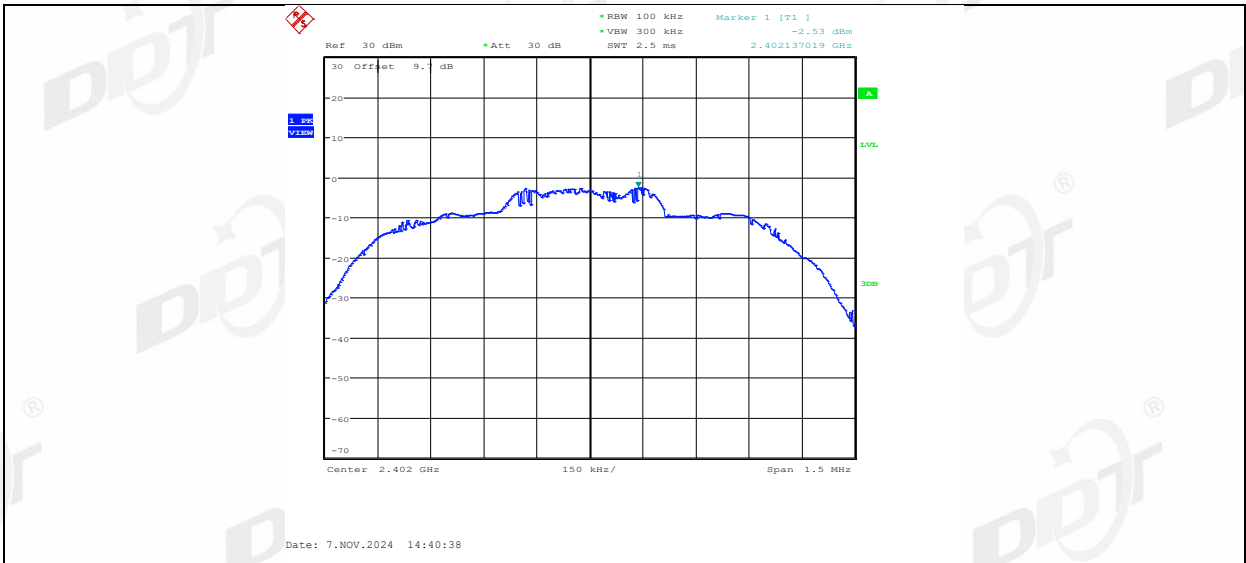
2DH5\_Ant1 2480\_30~1000



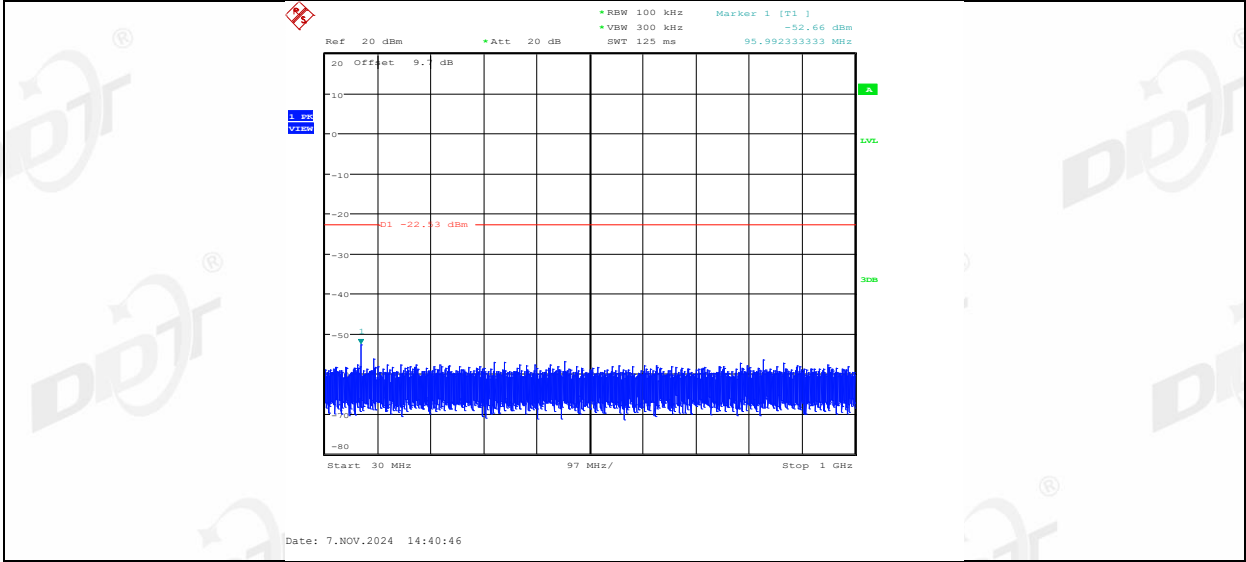
2DH5\_Ant1 2480\_1000~26500



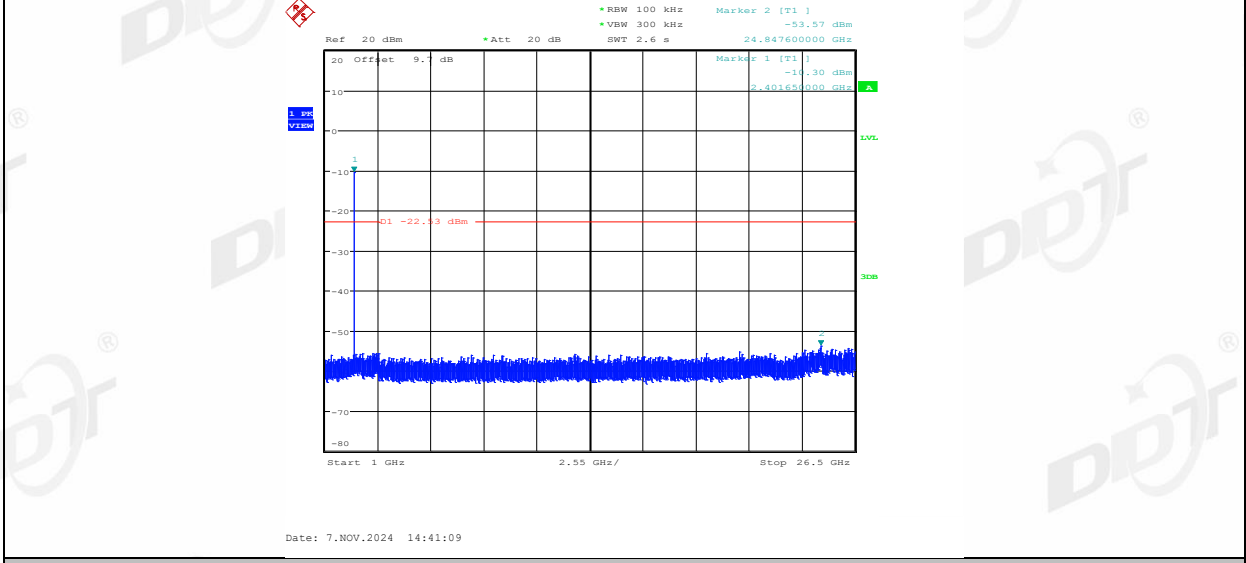
3DH5\_Ant1 2402\_0~Reference



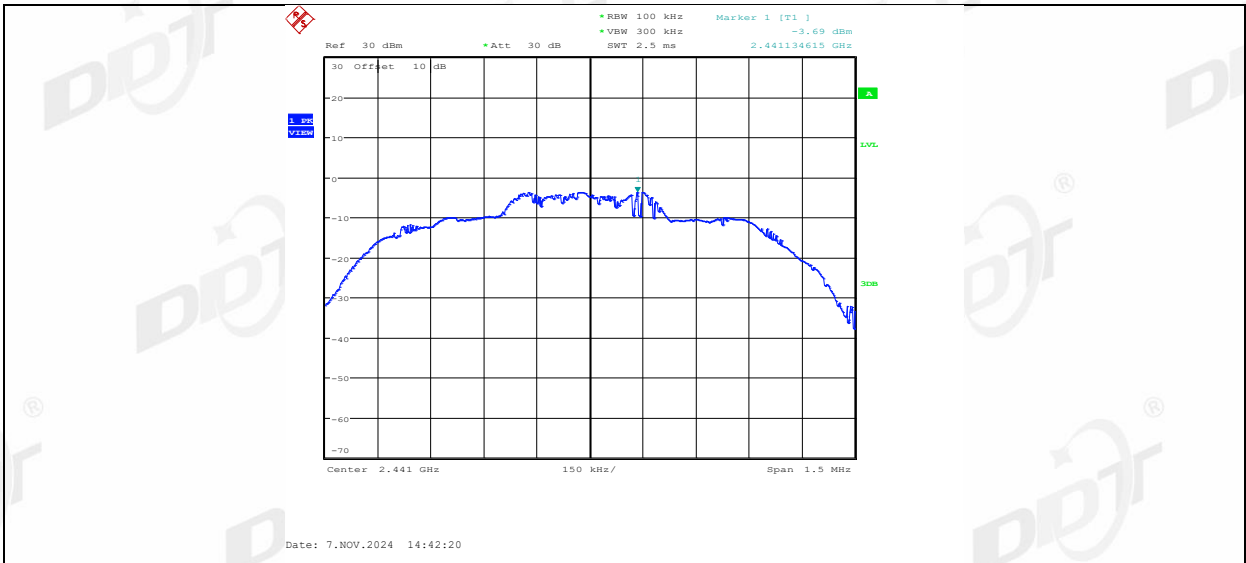
3DH5\_Ant1\_2402\_30~1000



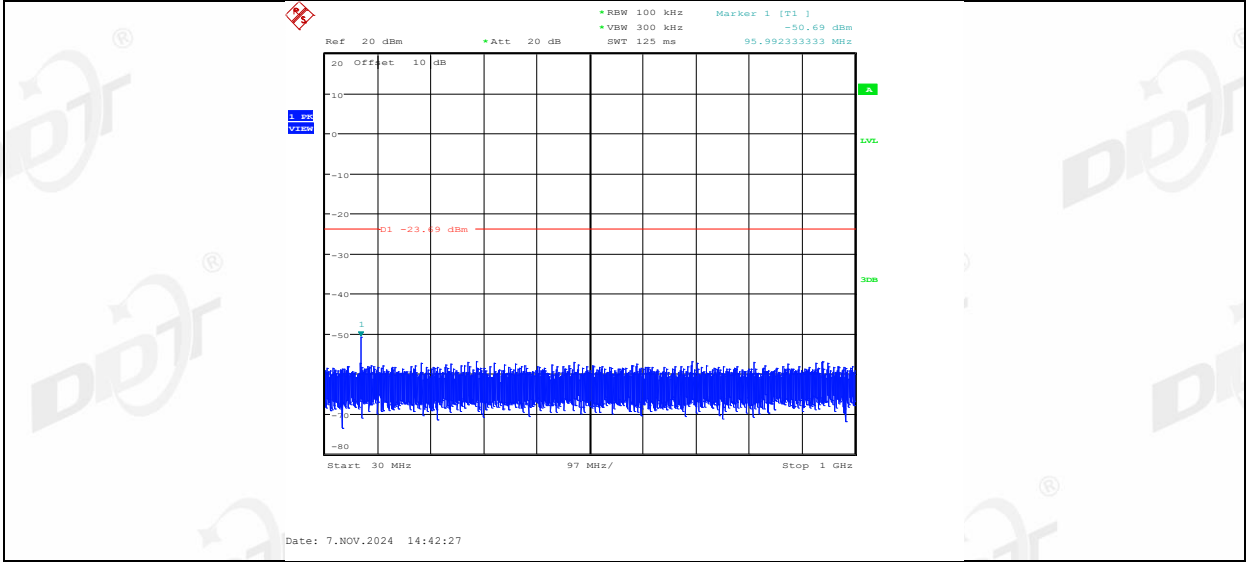
3DH5\_Ant1\_2402\_1000~26500



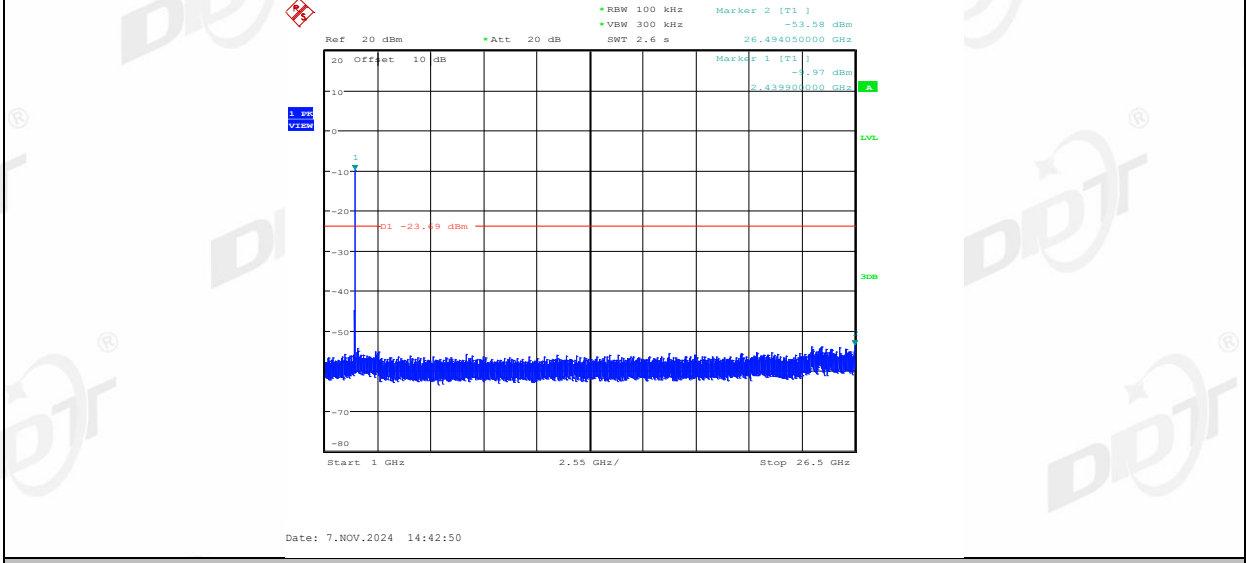
3DH5\_Ant1\_2441\_0~Reference



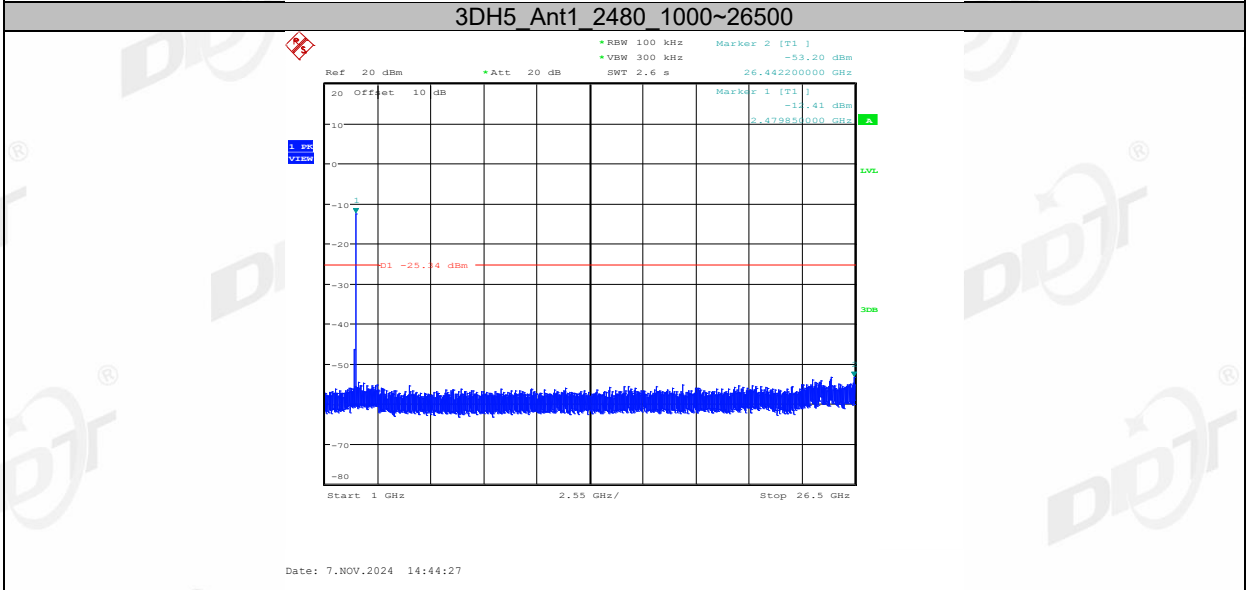
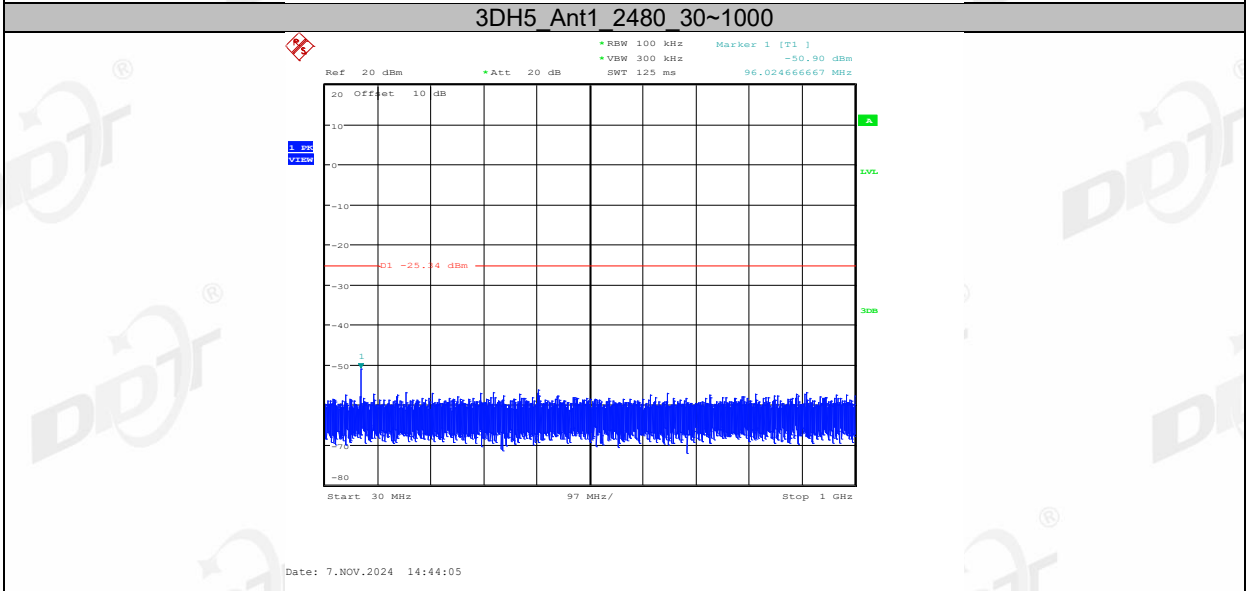
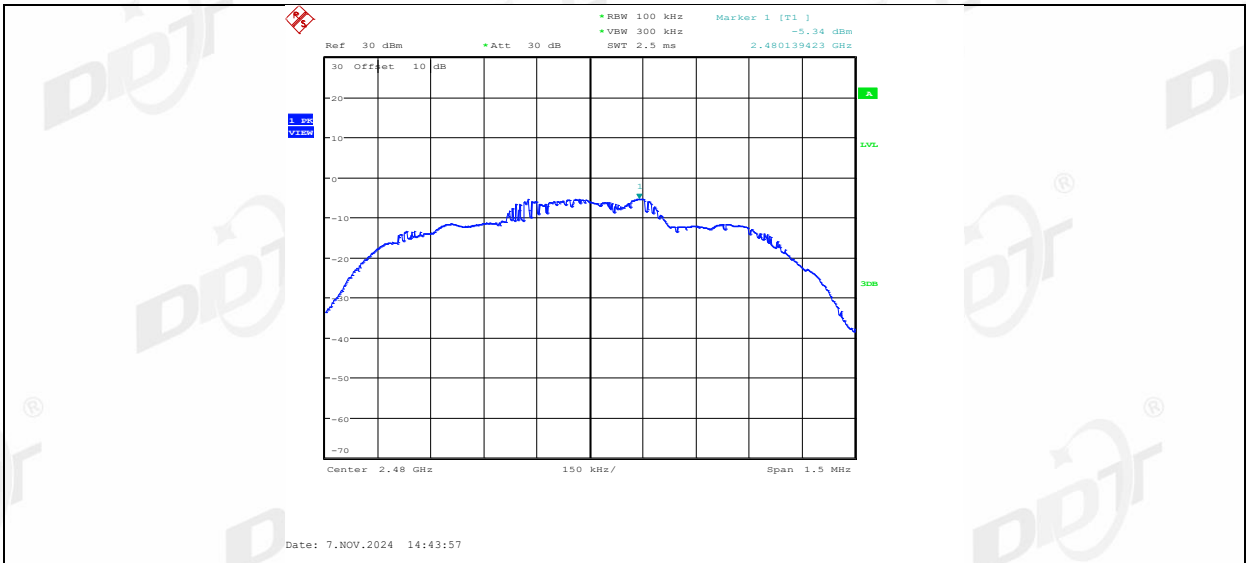
3DH5\_Ant1\_2441\_30~1000



3DH5\_Ant1\_2441\_1000~26500

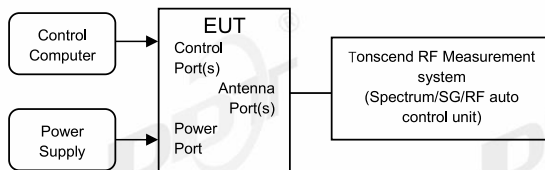


3DH5\_Ant1\_2480\_0~Reference



## 12. Duty cycle

### 12.1. Block diagram of test setup



### 12.2. Limit

Just for Report.

### 12.3. Test procedure

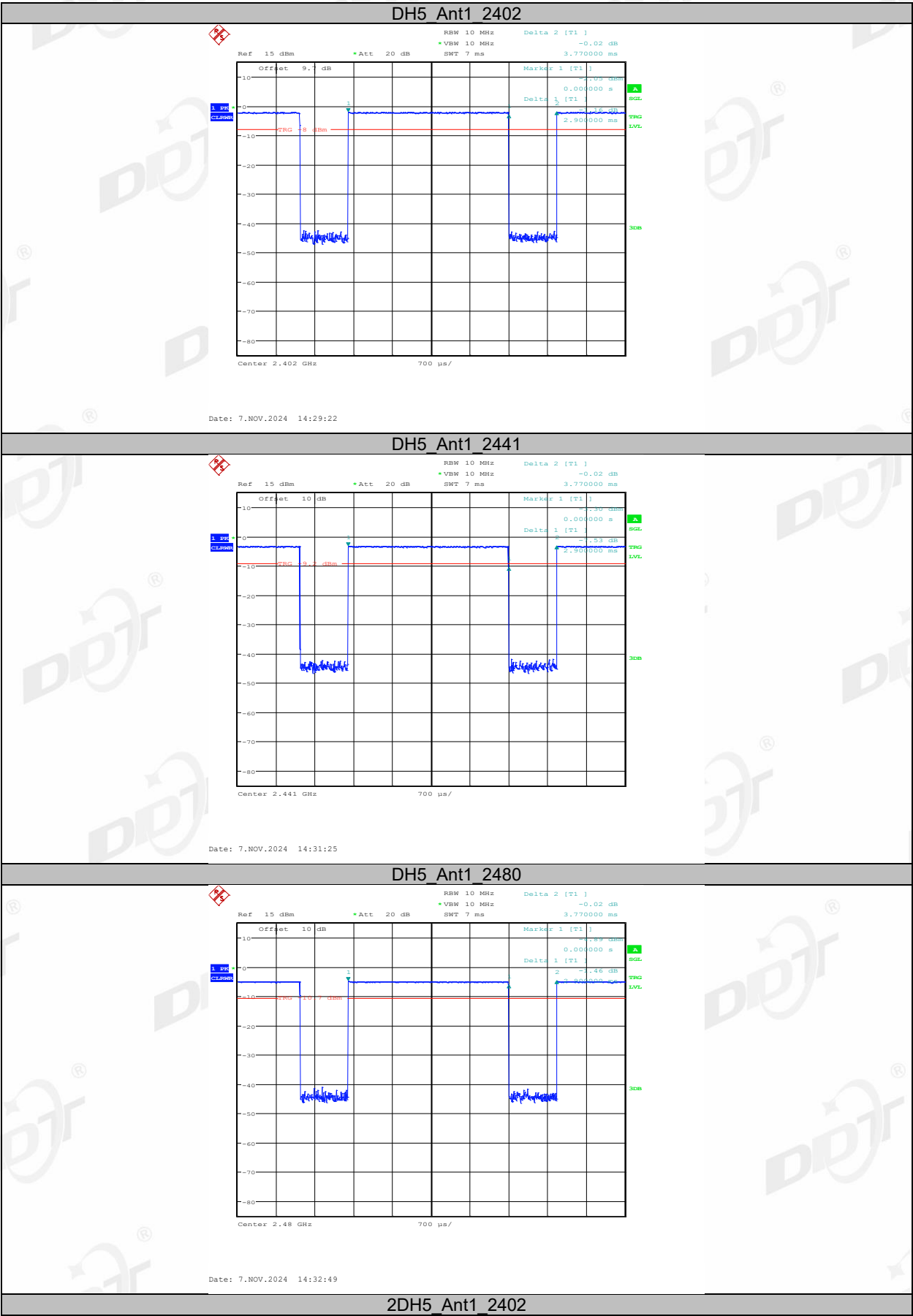
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.  
set the Spectrum Analyzer as below:  
Centre Frequency: The centre frequency of the middle hopping channel.  
Resolution 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

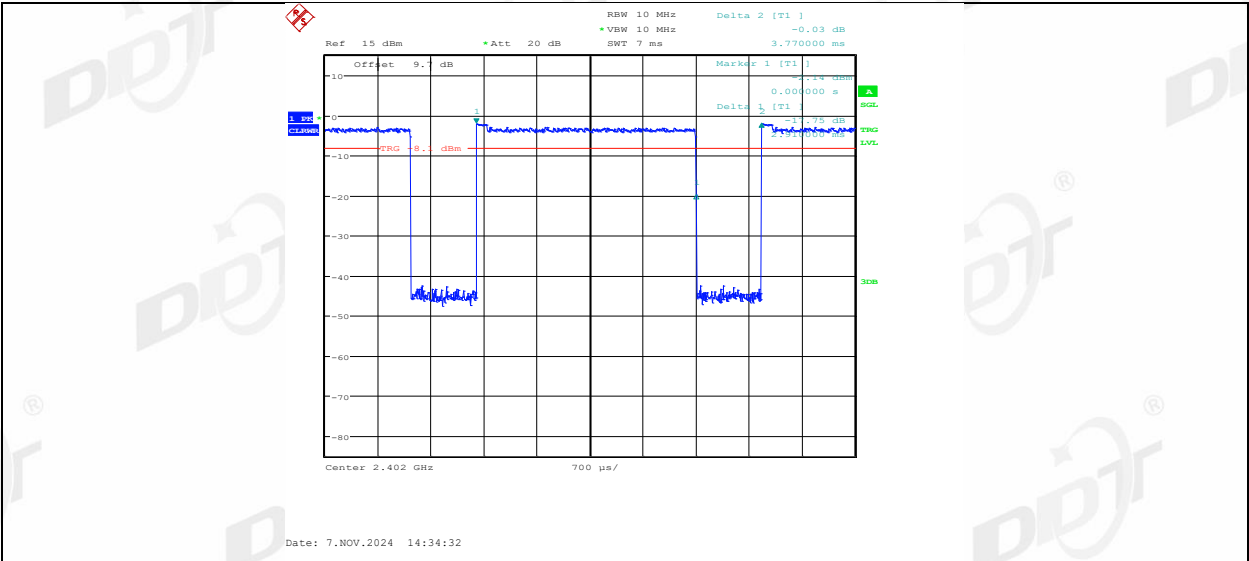
12.4. Test result

|                    |             |                |                          |
|--------------------|-------------|----------------|--------------------------|
| Test Engineer:     | Zora Zhang  | Test Site:     | RF Measurement System 1# |
| Ambient Condition: | 24.9℃,52%RH | Test Date:     | 2024.10.17-2024.11.14    |
| Test Power Supply: | battery     | Sample Number: | S24092711-001            |

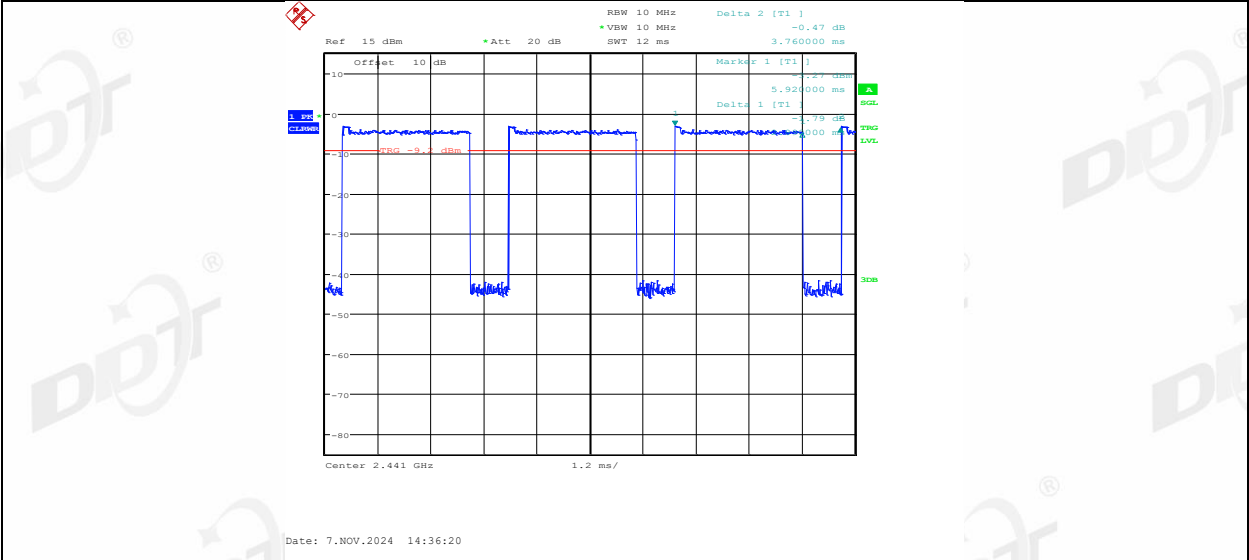
| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| DH5       | Ant1    | 2402            | 2.90         | 3.77        | 76.92          | 1.14                  |
|           |         | 2441            | 2.90         | 3.77        | 76.92          | 1.14                  |
|           |         | 2480            | 2.90         | 3.77        | 76.92          | 1.14                  |
| 2DH5      | Ant1    | 2402            | 2.91         | 3.77        | 77.19          | 1.12                  |
|           |         | 2441            | 2.89         | 3.76        | 76.86          | 1.14                  |
|           |         | 2480            | 2.91         | 3.78        | 76.98          | 1.14                  |
| 3DH5      | Ant1    | 2402            | 2.90         | 3.76        | 77.13          | 1.13                  |
|           |         | 2441            | 2.90         | 3.77        | 76.92          | 1.14                  |
|           |         | 2480            | 2.90         | 3.77        | 76.92          | 1.14                  |

12.5. Test graphs

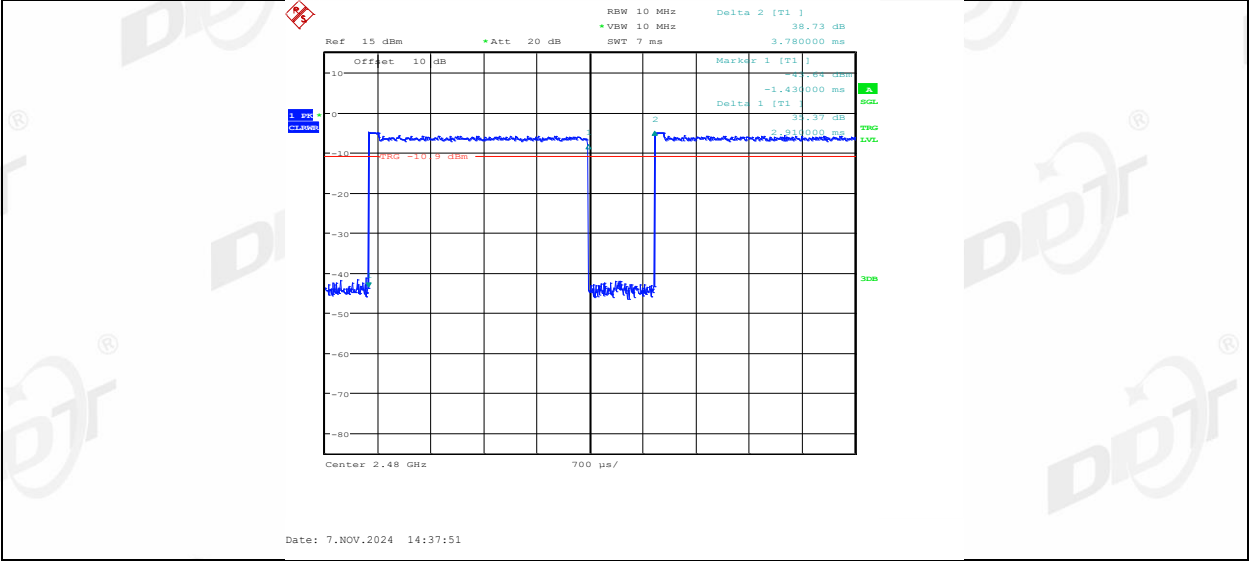




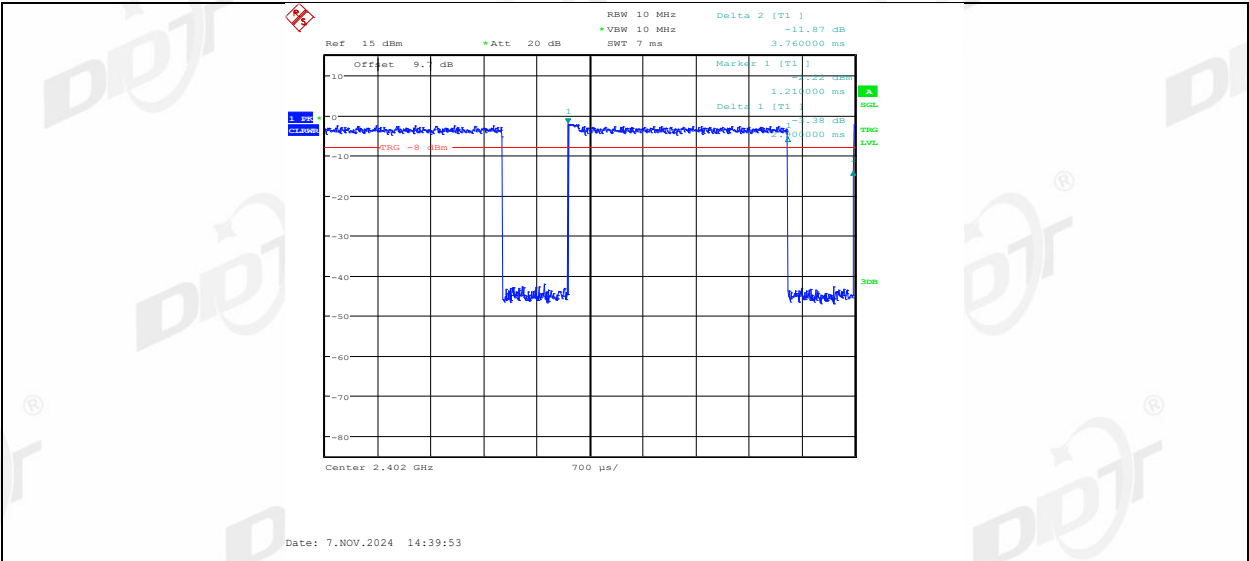
2DH5\_Ant1\_2441



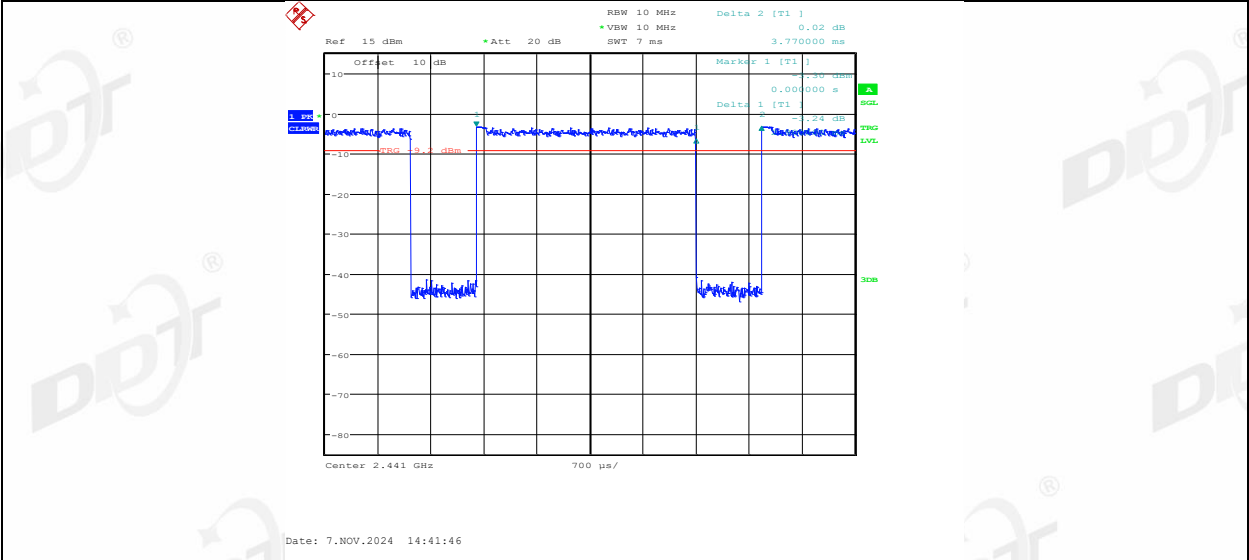
2DH5\_Ant1\_2480



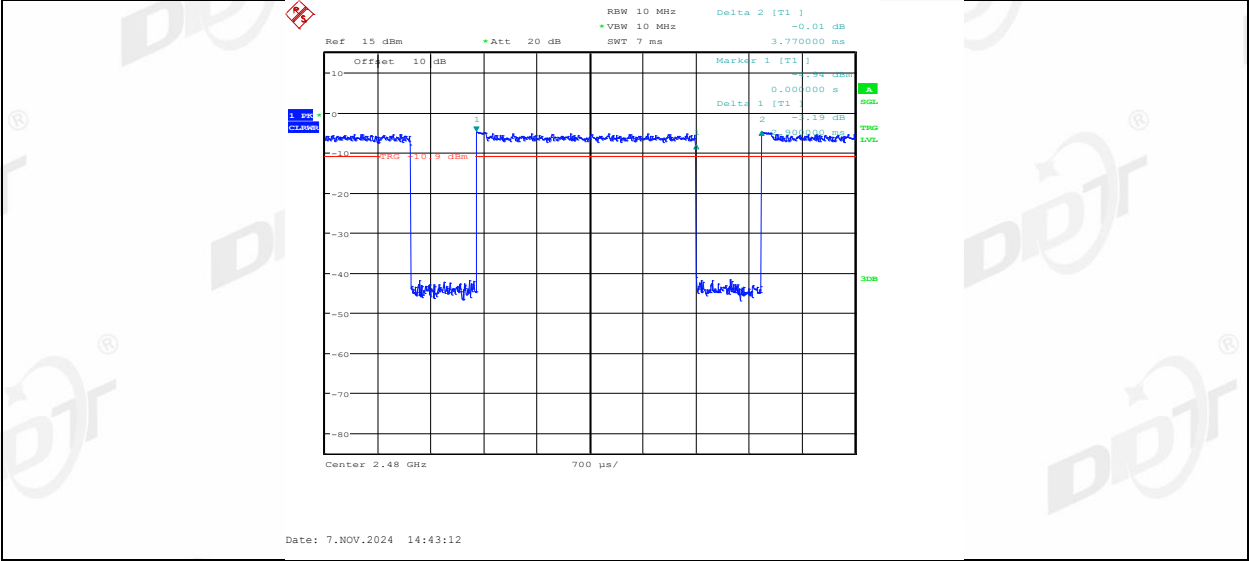
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## 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

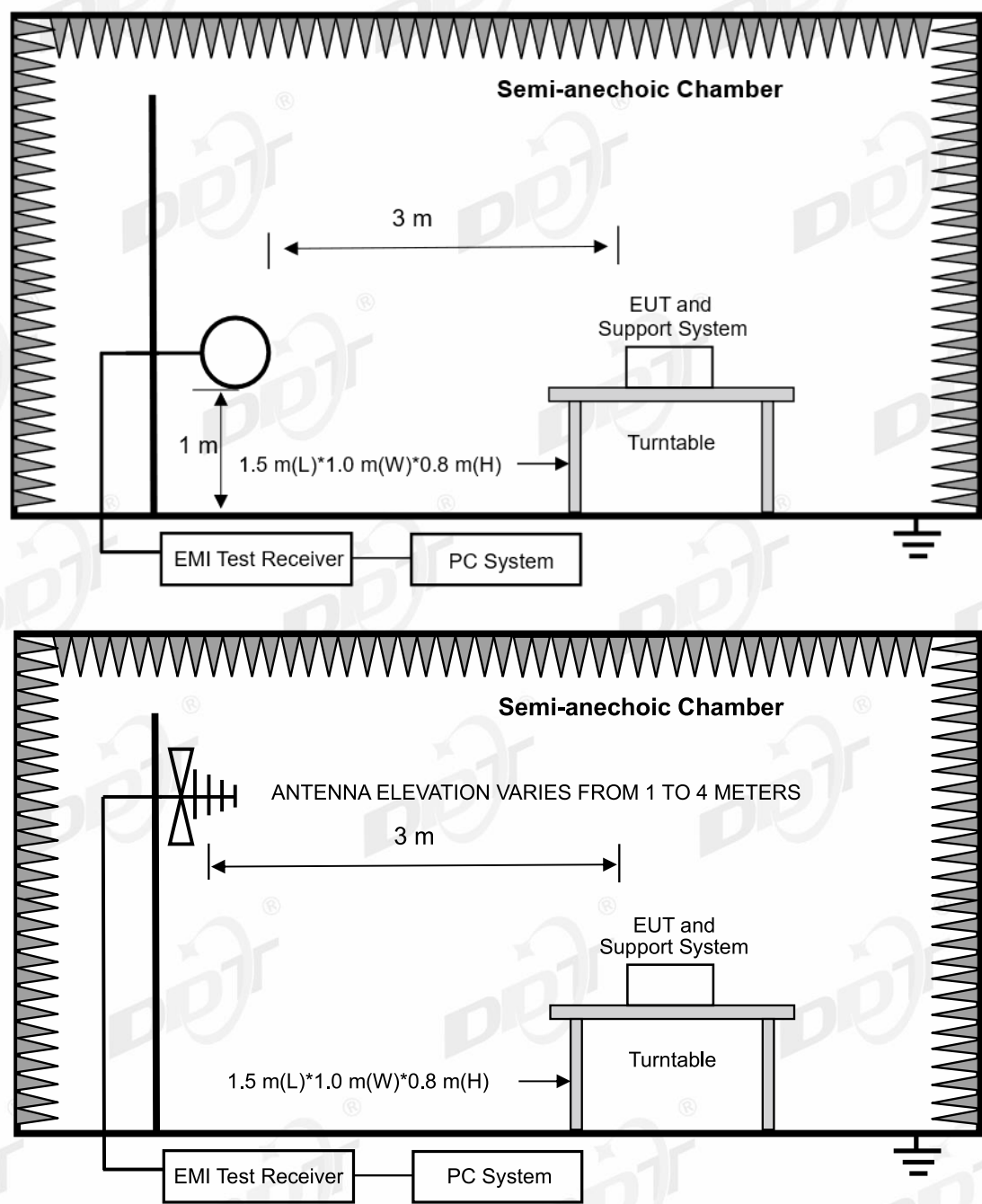
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

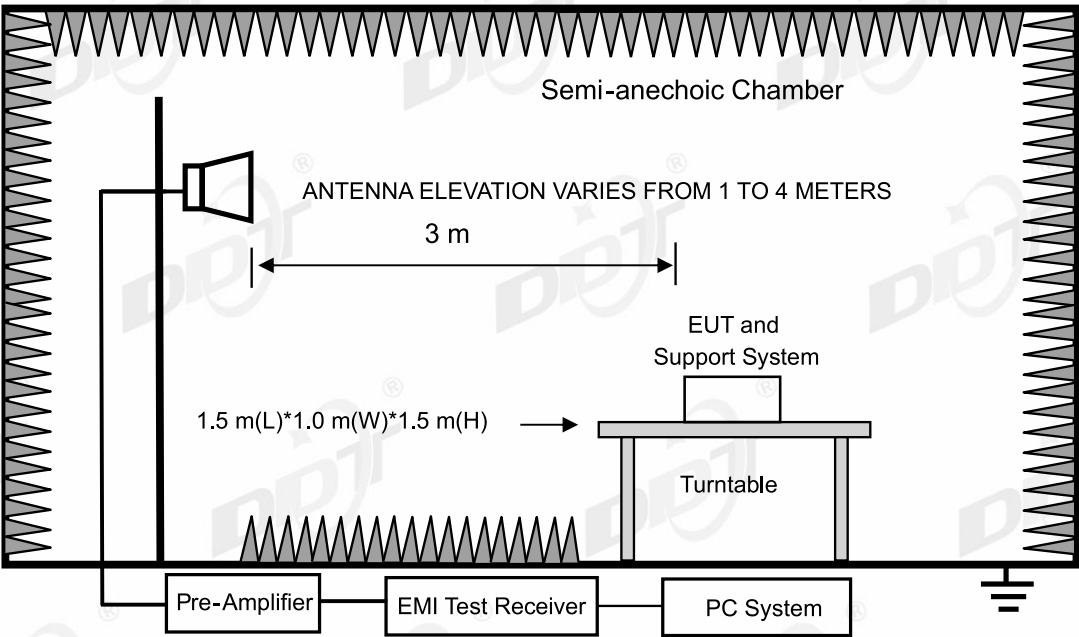
## 14.Radiated Emission

### 14.1. Test equipment

| Equipment                    | Manufacturer      | Model No.          | Serial No.  | Cal Due To |
|------------------------------|-------------------|--------------------|-------------|------------|
| RF Cable                     | N/A               | W24.02 HL-562      | DDT-ZC04022 | 2025/03/31 |
| RF cable                     | Zhongke Junchuang | JCT26S-NJ-NJ-1.5M  | DDT-ZC02762 | 2025/03/31 |
| PSA Series Spectrum Analyzer | Agilent           | E4447A             | DDT-ZC00517 | 2025/03/31 |
| Pre-amplifier                | COM-POWER         | PAM-118A           | DDT-ZC01293 | 2025/08/25 |
| RF cable                     | Yuhu Technology   | JCTB810-NJ-NJ-9M   | DDT-ZC02538 | 2025/03/31 |
| High Pass filter             | Xi'an Xingbo      | XBLBQ-GTA67        | DDT-ZC02179 | 2025/04/22 |
| Micro-Tronics filters        | REBES             | BRM50716           | DDT-ZC03240 | /          |
| Hochgewinn-Hornantenne       | SCHWARZBEC K      | BBHA 9120 D        | DDT-ZC02129 | 2025/09/18 |
| Active Loop Antenna          | Schwarzbeck       | FMZB1519           | DDT-ZC00524 | 2025/09/11 |
| EMI TEST RECEIVER            | R&S               | ESU26              | DDT-ZC01909 | 2025/03/31 |
| RF Cable                     | N/A               | W13.02 AP1-X2      | DDT-ZC04023 | 2025/03/31 |
| Micro-Tronics filters        | REBES             | BRM50702           | DDT-ZC03242 | /          |
| Broad-Band Horn Antenna      | Schwarzbeck       | BBHA 9170          | DDT-ZC00506 | 2025/04/26 |
| High pass filter             | Micro-Tronics     | HPM50102           | DDT-ZC00561 | 2025/04/22 |
| RF cable                     | Yuhu Technology   | ZT26S-SMAJ-SMAJ-1M | DDT-ZC02037 | 2025/03/31 |
| Trilog Broadband Antenna     | Schwarzbeck       | VULB 9163          | DDT-ZC02050 | 2025/07/11 |
| High pass filter             | Micro-Tronics     | HPM50108           | DDT-ZC00560 | 2025/04/22 |
| Pre-amplifier                | COM-POWER         | PAM-840A           | DDT-ZC01693 | 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       |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46      |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75      |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5      |
| 4.1772&4.17775           | 37.5-38.25          | 1435-1626.5   | 9.0-9.2        |
| 4.2072&4.20775           | 73-74.6             | 1645.5-1646.5 | 9.3-9.5        |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7      |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4     |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5     |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2     |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4      |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12    |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0      |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8      |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5     |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | <sup>(2)</sup> |
| 13.36-13.41              |                     |               |                |

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

<sup>2</sup>Above 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<br>MHz | DISTANCE<br>Meters | FIELD STRENGTHS LIMIT                       |               |
|------------------|--------------------|---------------------------------------------|---------------|
|                  |                    | uV/m                                        | dBuV/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 dBuV/m (Peak)<br>54.0 dBuV/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 though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

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

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

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

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

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

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

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

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

(10) For 30 MHz ~ 25 GHz: (Scan with GFSK, p/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:

2024-11-26

Tested By:

Gen Liu

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

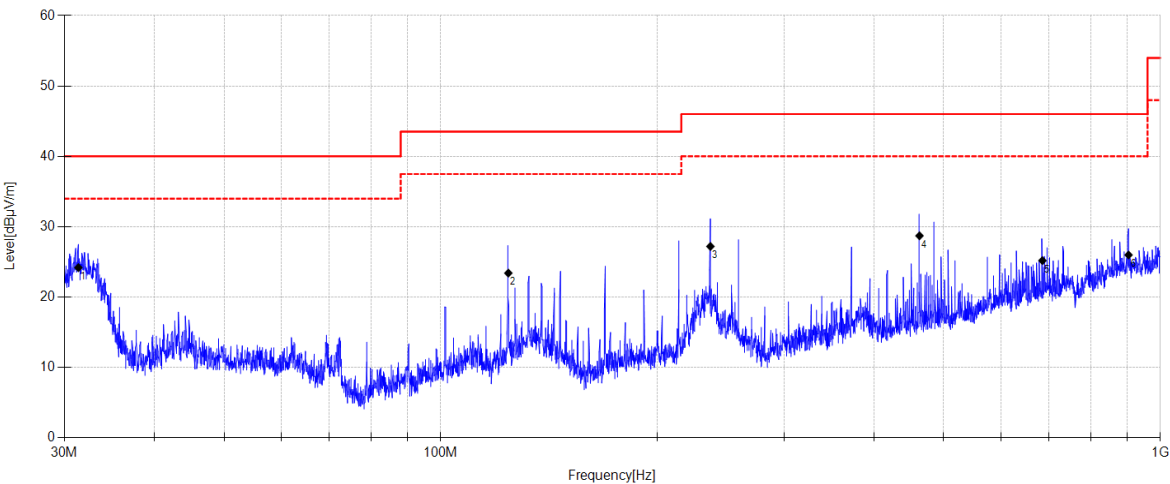
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24092711-1E\FCC BELOW1G\20241126-212724\_H

Memo:

Sample Number:S24092711-003 Power Setting:NA



| Data List |                |                     |                           |                       |                    |                   |                |          |            |
|-----------|----------------|---------------------|---------------------------|-----------------------|--------------------|-------------------|----------------|----------|------------|
| NO.       | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Antenna<br>Factor<br>[dB] | Cable<br>Loss<br>[dB] | Result<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Detector | Polarity   |
| 1         | 31.377         | 41.23               | 10.29                     | 3.77                  | 24.19              | 40.00             | 15.81          | QP       | Horizontal |
| 2         | 124.185        | 41.12               | 9.06                      | 4.35                  | 23.41              | 43.50             | 20.09          | QP       | Horizontal |
| 3         | 237.045        | 41.98               | 11.56                     | 4.93                  | 27.20              | 46.00             | 18.80          | QP       | Horizontal |
| 4         | 462.741        | 38.43               | 15.90                     | 5.86                  | 28.71              | 46.00             | 17.29          | QP       | Horizontal |
| 5         | 685.758        | 30.8                | 19.25                     | 6.64                  | 25.19              | 46.00             | 20.81          | QP       | Horizontal |
| 6         | 903.328        | 27.42               | 21.90                     | 7.21                  | 25.98              | 46.00             | 20.02          | 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:

2024-11-26

Tested By:

Gen Liu

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

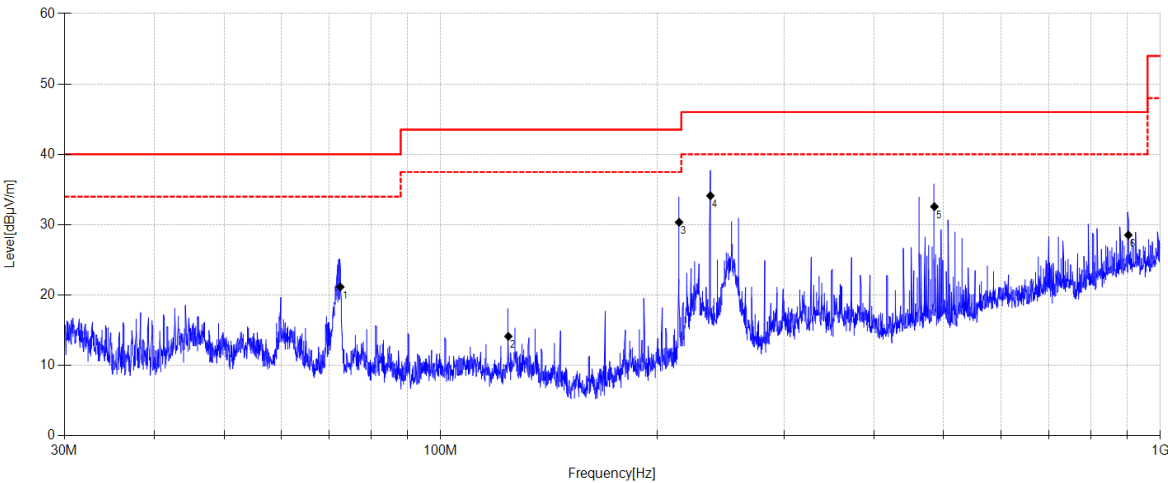
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24092711-1E\FCC BELOW1G\20241126-212748\_V

Memo:

Sample Number:S24092711-003 Power Setting:NA



| 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         | 72.528      | 38.83            | 9.39                | 4.04            | 21.16           | 40.00          | 18.84       | QP       | Vertical |
| 2         | 124.185     | 31.84            | 9.06                | 4.35            | 14.13           | 43.50          | 29.37       | QP       | Vertical |
| 3         | 214.430     | 46.07            | 10.68               | 4.83            | 30.35           | 43.50          | 13.15       | QP       | Vertical |
| 4         | 237.045     | 48.89            | 11.56               | 4.93            | 34.11           | 46.00          | 11.89       | QP       | Vertical |
| 5         | 485.339     | 41.64            | 16.48               | 5.94            | 32.57           | 46.00          | 13.43       | QP       | Vertical |
| 6         | 902.695     | 29.97            | 21.90               | 7.21            | 28.53           | 46.00          | 17.47       | QP       | Vertical |

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX 2402 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

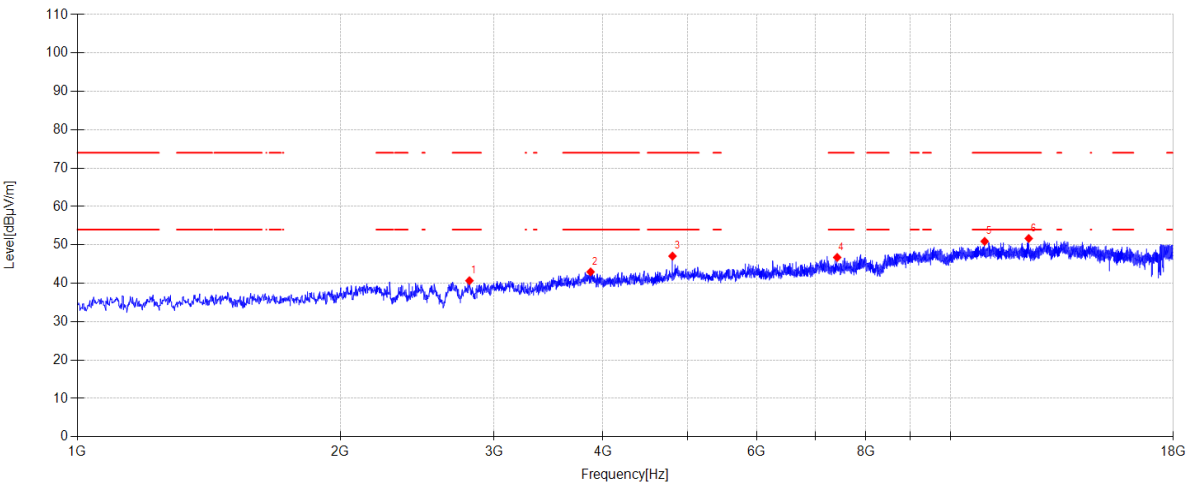
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \1

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |            |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| NO.       | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1         | 2812.200    | 47.28            | 27.50               | 5.10            | -39.20   | 40.68          | 74.00          | 33.32       | PK       | Horizontal |
| 2         | 3871.300    | 46.52            | 31.03               | 5.07            | -39.65   | 42.97          | 74.00          | 31.03       | PK       | Horizontal |
| 3         | 4804.600    | 48.55            | 32.62               | 5.53            | -39.62   | 47.08          | 74.00          | 26.92       | PK       | Horizontal |
| 4         | 7417.500    | 44.04            | 36.67               | 6.66            | -40.62   | 46.75          | 74.00          | 27.25       | PK       | Horizontal |
| 5         | 10945.000   | 42.56            | 39.30               | 8.10            | -39.03   | 50.93          | 74.00          | 23.07       | PK       | Horizontal |
| 6         | 12293.100   | 43.41            | 39.30               | 8.91            | -39.94   | 51.68          | 74.00          | 22.32       | 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:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX 2402 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

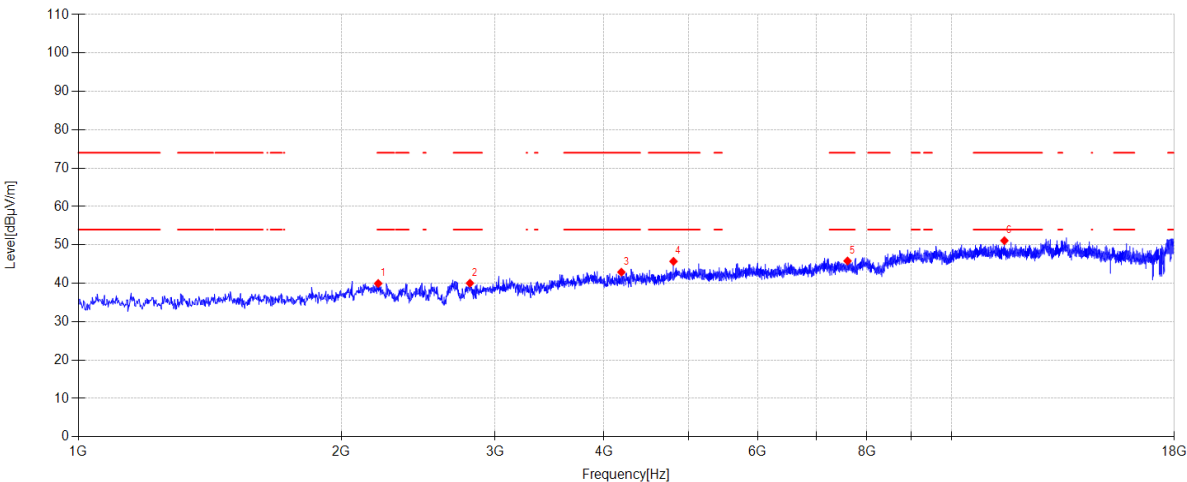
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \2

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |          |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| NO.       | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
| 1         | 2205.300    | 45.92            | 27.75               | 4.72            | -38.44   | 39.95          | 74.00          | 34.05       | PK       | Vertical |
| 2         | 2808.800    | 46.66            | 27.47               | 5.10            | -39.20   | 40.03          | 74.00          | 33.97       | PK       | Vertical |
| 3         | 4187.500    | 46.21            | 31.20               | 5.16            | -39.67   | 42.90          | 74.00          | 31.10       | PK       | Vertical |
| 4         | 4804.600    | 47.18            | 32.62               | 5.53            | -39.62   | 45.71          | 74.00          | 28.29       | PK       | Vertical |
| 5         | 7602.800    | 43.01            | 36.51               | 6.76            | -40.46   | 45.82          | 74.00          | 28.18       | PK       | Vertical |
| 6         | 11499.200   | 42.97            | 39.20               | 8.44            | -39.50   | 51.11          | 74.00          | 22.89       | 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:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX 2441 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

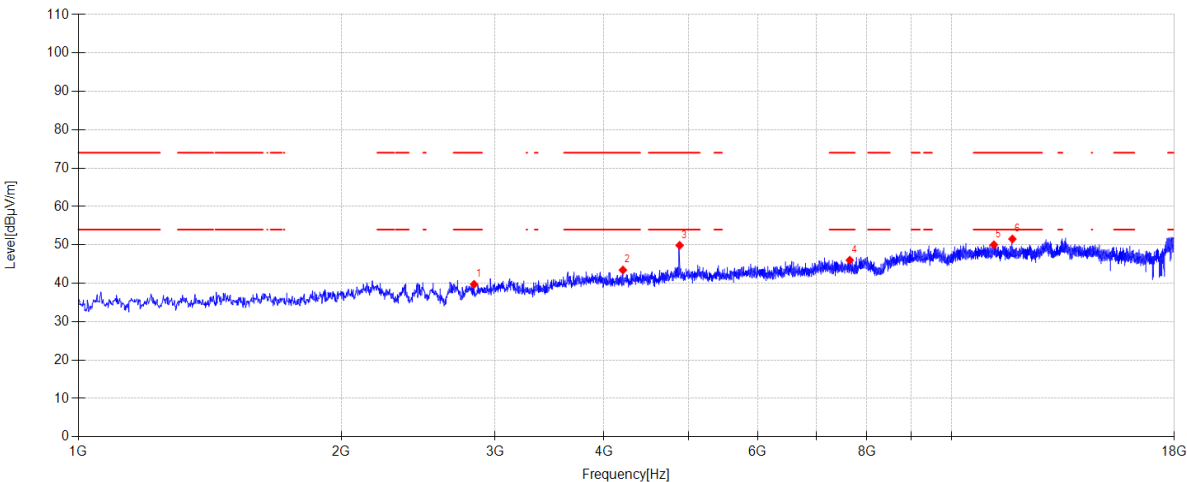
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \3

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |            |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| NO.       | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1         | 2839.400    | 46.13            | 27.72               | 5.12            | -39.24   | 39.73          | 74.00          | 34.27       | PK       | Horizontal |
| 2         | 4204.500    | 46.72            | 31.22               | 5.17            | -39.66   | 43.45          | 74.00          | 30.55       | PK       | Horizontal |
| 3         | 4882.800    | 50.63            | 33.28               | 5.58            | -39.61   | 49.88          | 74.00          | 24.12       | PK       | Horizontal |
| 4         | 7648.700    | 43.05            | 36.60               | 6.78            | -40.42   | 46.01          | 74.00          | 27.99       | PK       | Horizontal |
| 5         | 11184.700   | 41.74            | 39.22               | 8.25            | -39.18   | 50.03          | 74.00          | 23.97       | PK       | Horizontal |
| 6         | 11744.000   | 43.73            | 38.96               | 8.60            | -39.74   | 51.55          | 74.00          | 22.45       | 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:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX 2441 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

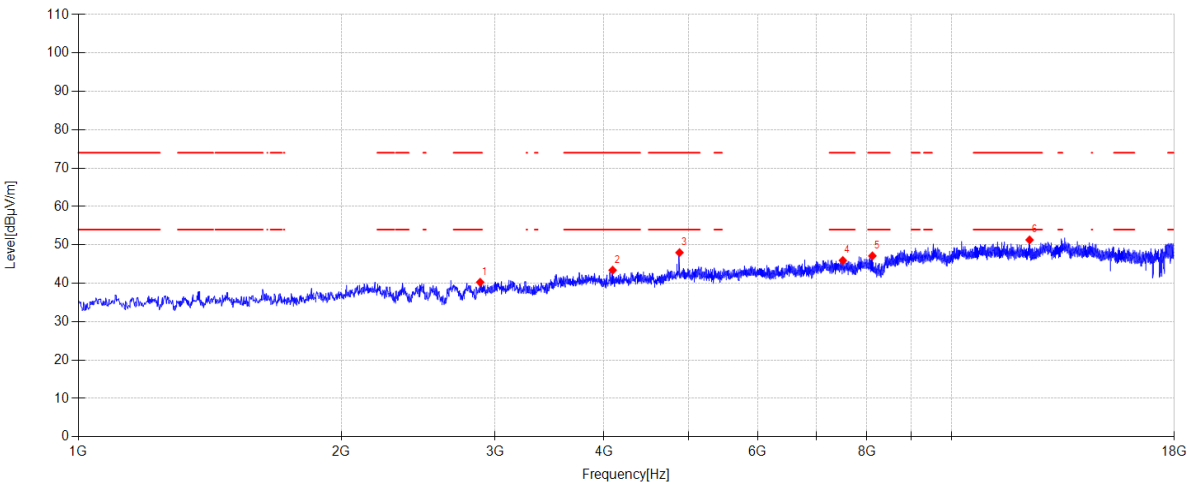
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \4

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |          |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| NO.       | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
| 1         | 2885.300    | 46.34            | 28.08               | 5.15            | -39.30   | 40.27          | 74.00          | 33.73       | PK       | Vertical |
| 2         | 4092.300    | 46.89            | 31.08               | 5.11            | -39.67   | 43.41          | 74.00          | 30.59       | PK       | Vertical |
| 3         | 4881.100    | 48.72            | 33.30               | 5.58            | -39.61   | 47.99          | 74.00          | 26.01       | PK       | Vertical |
| 4         | 7509.300    | 43.29            | 36.48               | 6.71            | -40.54   | 45.94          | 74.00          | 28.06       | PK       | Vertical |
| 5         | 8117.900    | 42.88            | 37.20               | 7.01            | -39.95   | 47.14          | 74.00          | 26.86       | PK       | Vertical |
| 6         | 12288.000   | 43.03            | 39.30               | 8.91            | -39.94   | 51.30          | 74.00          | 22.70       | 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:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX 2480 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

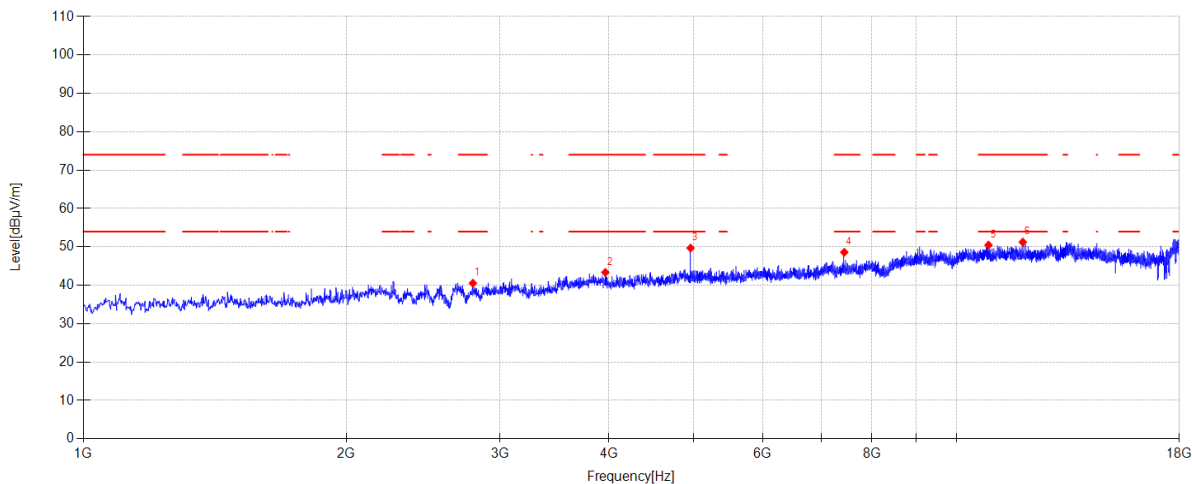
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \5

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |            |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| NO.       | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1         | 2793.500    | 47.22            | 27.43               | 5.09            | -39.18   | 40.56          | 74.00          | 33.44       | PK       | Horizontal |
| 2         | 3961.400    | 46.93            | 31.05               | 5.06            | -39.67   | 43.37          | 74.00          | 30.63       | PK       | Horizontal |
| 3         | 4959.300    | 50.56            | 33.12               | 5.63            | -39.60   | 49.71          | 74.00          | 24.29       | PK       | Horizontal |
| 4         | 7439.600    | 45.91            | 36.62               | 6.67            | -40.60   | 48.60          | 74.00          | 25.40       | PK       | Horizontal |
| 5         | 10882.100   | 42.17            | 39.32               | 8.07            | -39.07   | 50.49          | 74.00          | 23.51       | PK       | Horizontal |
| 6         | 11912.300   | 43.53            | 38.94               | 8.70            | -39.91   | 51.26          | 74.00          | 22.74       | 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:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX 2480 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

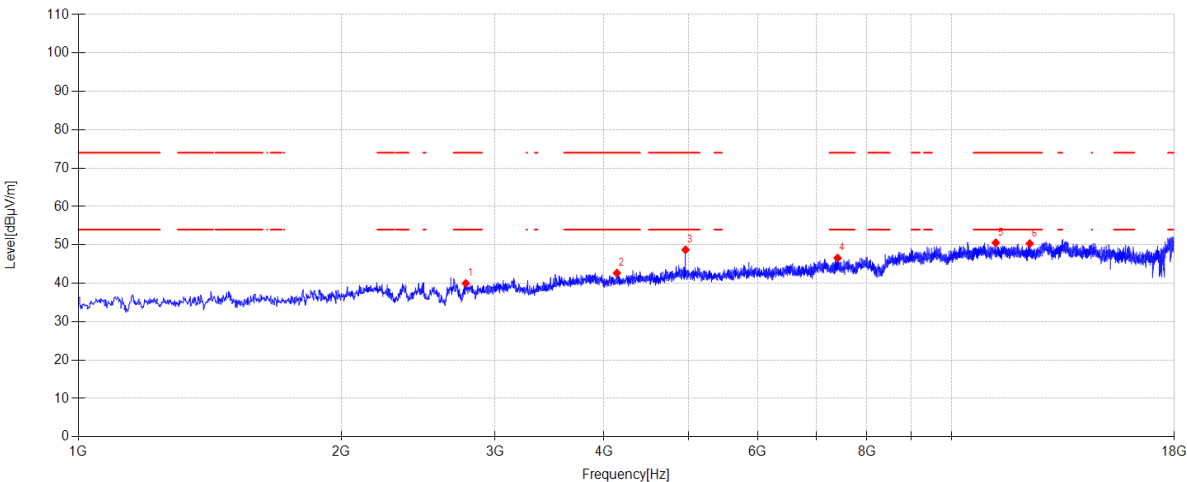
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \6

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |          |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|----------|
| NO.       | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
| 1         | 2778.200    | 46.58            | 27.49               | 5.08            | -39.16   | 39.99          | 74.00          | 34.01       | PK       | Vertical |
| 2         | 4138.200    | 46.03            | 31.18               | 5.13            | -39.67   | 42.67          | 74.00          | 31.33       | PK       | Vertical |
| 3         | 4959.300    | 49.58            | 33.12               | 5.63            | -39.60   | 48.73          | 74.00          | 25.27       | PK       | Vertical |
| 4         | 7407.300    | 43.86            | 36.69               | 6.66            | -40.63   | 46.58          | 74.00          | 27.42       | PK       | Vertical |
| 5         | 11239.100   | 42.33            | 39.20               | 8.28            | -39.24   | 50.57          | 74.00          | 23.43       | PK       | Vertical |
| 6         | 12294.800   | 42.08            | 39.30               | 8.91            | -39.94   | 50.35          | 74.00          | 23.65       | 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.

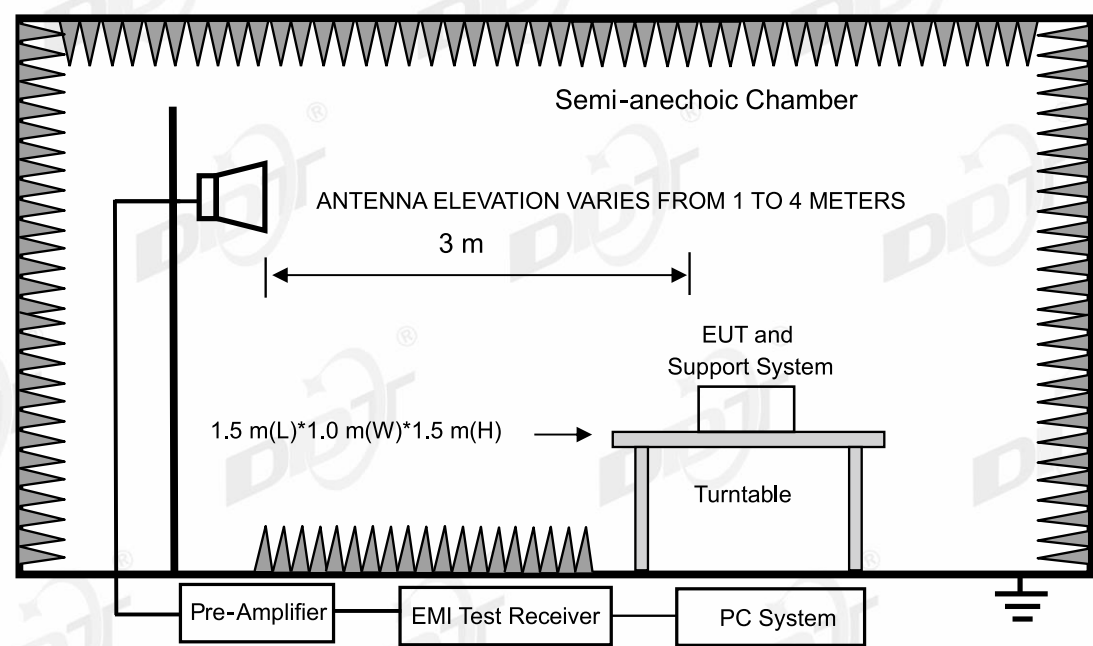
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## 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 |
| High pass filter             | Micro-Tronics     | HPM50102           | DDT-ZC00561 | 2025/04/22 |
| RF cable                     | Yuhu Technology   | JCTB810-NJ-NJ-9M   | DDT-ZC02538 | 2025/03/31 |
| EMI TEST RECEIVER            | R&S               | ESU26              | DDT-ZC01909 | 2025/03/31 |
| RF cable                     | Zhongke Junchuang | JCT26S-NJ-NJ-1.5M  | DDT-ZC02762 | 2025/03/31 |
| High pass filter             | Micro-Tronics     | HPM50108           | DDT-ZC00560 | 2025/04/22 |
| Micro-Tronics filters        | REBES             | BRM50702           | DDT-ZC03242 | /          |
| RF cable                     | Yuhu Technology   | ZT26S-SMAJ-SMAJ-1M | DDT-ZC02037 | 2025/03/31 |
| Micro-Tronics filters        | REBES             | BRM50716           | DDT-ZC03240 | /          |
| Hochgewinn-Hornantenne       | SCHWARZBEC K      | BBHA 9120 D        | DDT-ZC02129 | 2025/09/18 |
| RF Cable                     | N/A               | W24.02 HL-562      | DDT-ZC04022 | 2025/03/31 |
| Active Loop Antenna          | Schwarzbeck       | FMZB1519           | DDT-ZC00524 | 2025/09/11 |
| Pre-amplifier                | COM-POWER         | PAM-840A           | DDT-ZC01693 | 2025/03/31 |
| High Pass filter             | Xi'an Xingbo      | XBLBQ-GTA67        | DDT-ZC02179 | 2025/04/22 |
| Broad-Band Horn Antenna      | Schwarzbeck       | BBHA 9170          | DDT-ZC00506 | 2025/04/26 |
| Trilog Broadband Antenna     | Schwarzbeck       | VULB 9163          | DDT-ZC02050 | 2025/07/11 |
| Pre-amplifier                | COM-POWER         | PAM-118A           | DDT-ZC01293 | 2025/08/25 |
| PSA Series Spectrum Analyzer | Agilent           | E4447A             | DDT-ZC00517 | 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. According to the results of the radiated Emission test, it can be judged that the Horizontal direction is the Worst case.

15.6. Test result

PASS. (See below detailed test result)

15.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX 2402 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

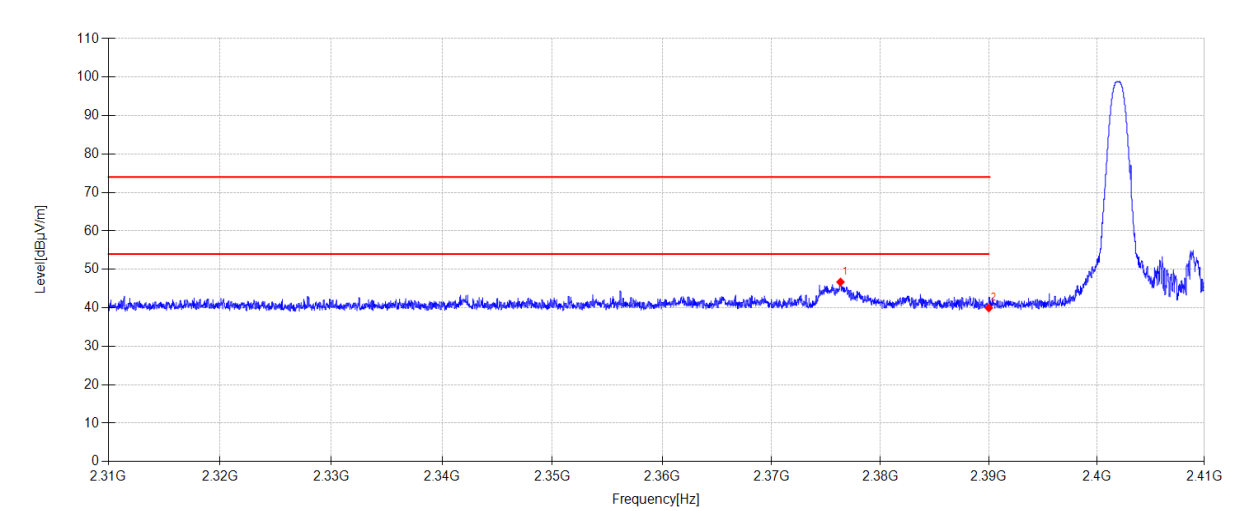
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \12

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |            |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| NO        | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1         | 2376.330    | 15.94            | 27.21               | 3.56            | 0.00     | 46.71          | 74.00          | 27.29       | PK       | Horizontal |
| 2         | 2390.000    | 9.13             | 27.26               | 3.57            | 0.00     | 39.96          | 74.00          | 34.04       | 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:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

2DH5 TX 2402 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

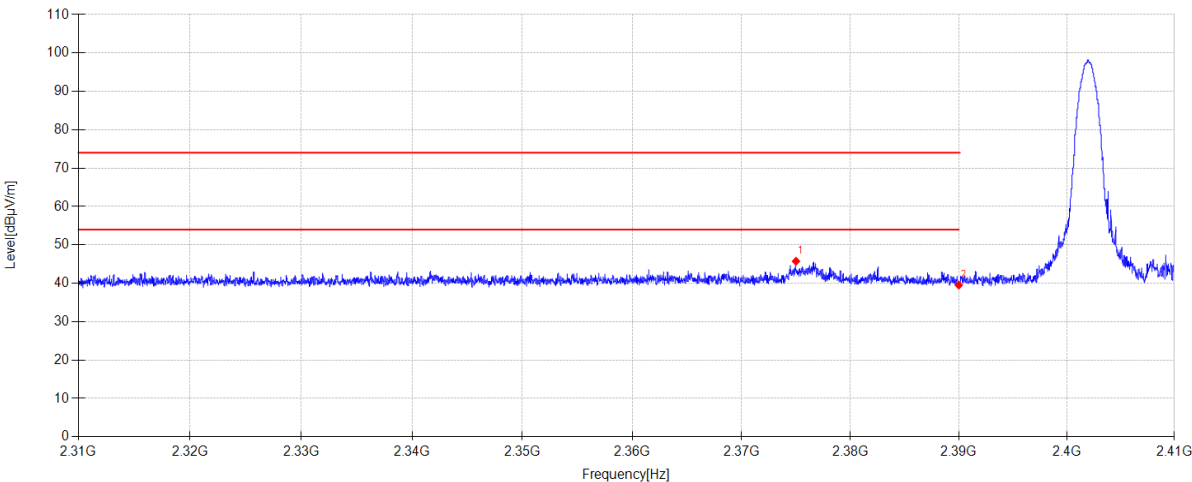
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \11

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |            |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| NO.       | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1         | 2375.000    | 14.99            | 27.20               | 3.56            | 0.00     | 45.75          | 74.00          | 28.25       | PK       | Horizontal |
| 2         | 2390.000    | 8.69             | 27.26               | 3.57            | 0.00     | 39.52          | 74.00          | 34.48       | PK       | Horizontal |

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

3DH5 TX 2402 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

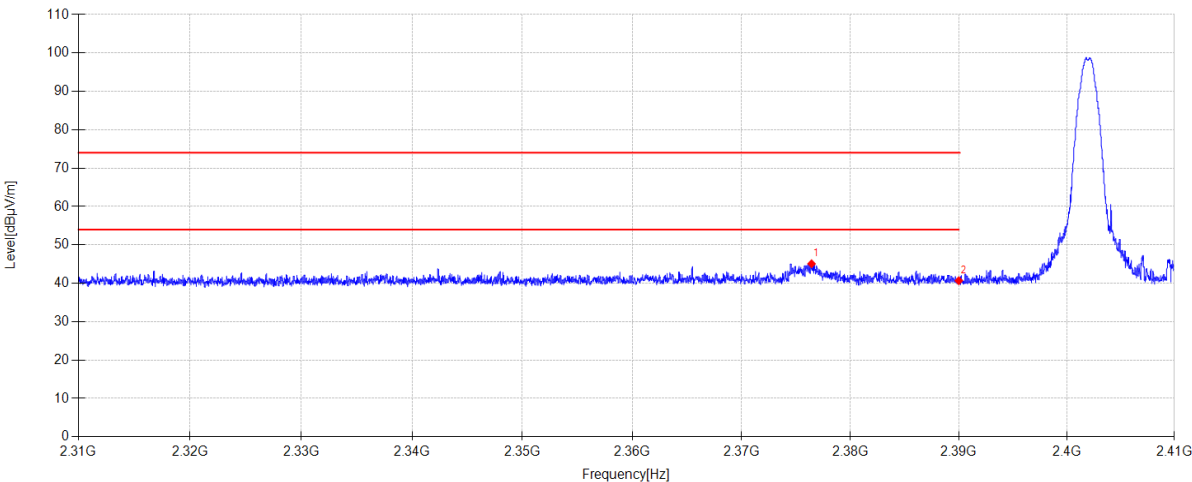
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \10

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |            |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| NO.       | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1         | 2376.430    | 14.32            | 27.21               | 3.56            | 0.00     | 45.09          | 74.00          | 28.91       | PK       | Horizontal |
| 2         | 2390.000    | 9.84             | 27.26               | 3.57            | 0.00     | 40.67          | 74.00          | 33.33       | 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:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

DH5 TX 2480 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

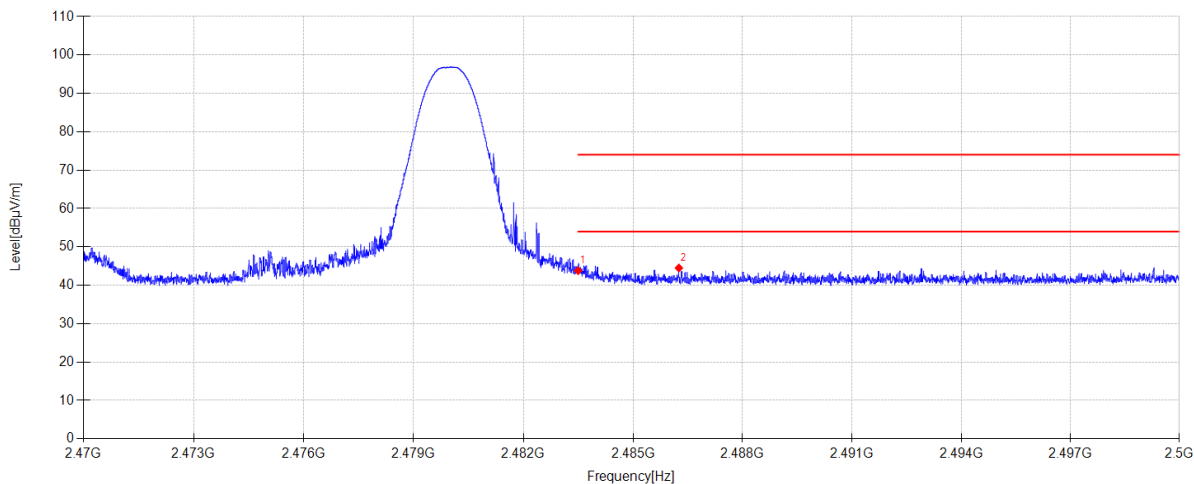
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \7

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |                |                     |                           |                       |             |                   |                   |                |          |            |
|-----------|----------------|---------------------|---------------------------|-----------------------|-------------|-------------------|-------------------|----------------|----------|------------|
| NO        | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Antenna<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | AMP<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Detector | Polarity   |
| 1         | 2483.500       | 12.65               | 27.53                     | 3.62                  | 0.00        | 43.80             | 74.00             | 30.20          | PK       | Horizontal |
| 2         | 2486.257       | 13.34               | 27.55                     | 3.62                  | 0.00        | 44.51             | 74.00             | 29.49          | PK       | Horizontal |

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

2DH5 TX 2480 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

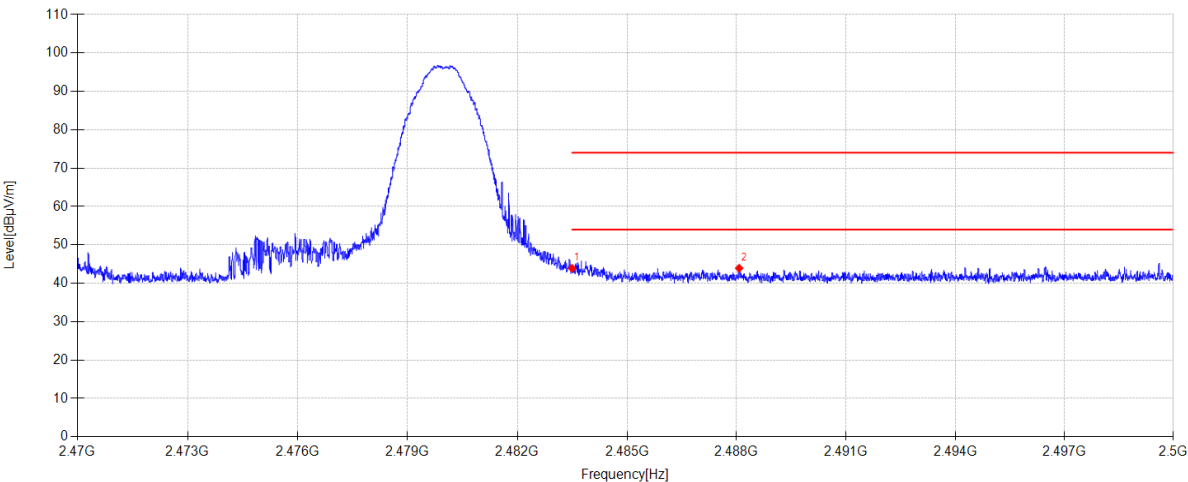
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \8

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |            |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| NO        | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1         | 2483.500    | 12.74            | 27.53               | 3.62            | 0.00     | 43.89          | 74.00          | 30.11       | PK       | Horizontal |
| 2         | 2488.072    | 12.75            | 27.55               | 3.62            | 0.00     | 43.92          | 74.00          | 30.08       | 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:

2024-11-15

Tested By:

Guoyuan Lin

EUT:

WIRELESS MICROPHONE

Model Number:

iUV5

Test Mode:

3DH5 TX 2480 MHz Mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

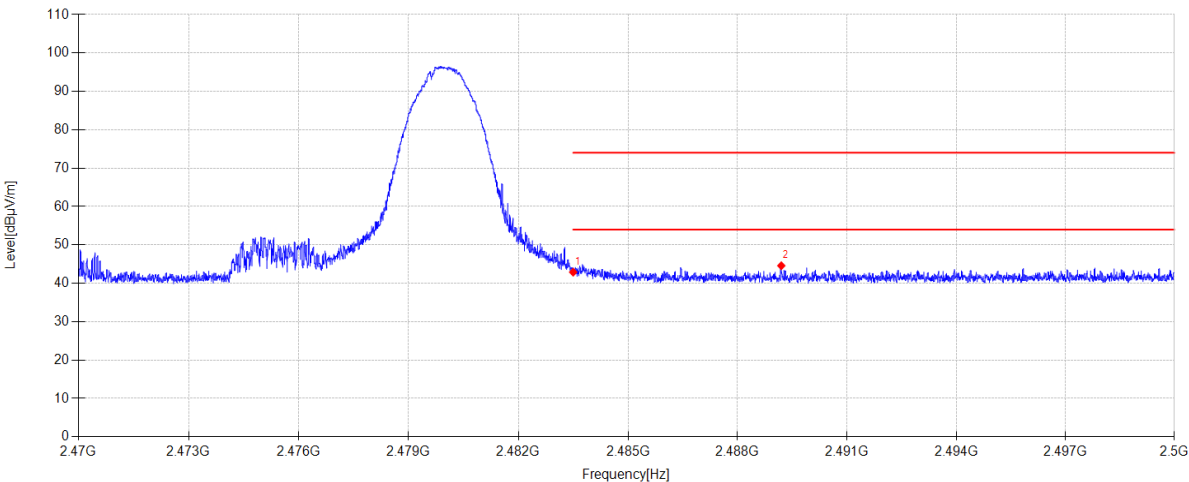
File Path:

d:\ts\2024 report data\Q24092711-1E\FCC Above 1G \9

Memo:

Sample Number:S24092711-004 Power Setting:0

Test Graph



| Data List |             |                  |                     |                 |          |                |                |             |          |            |
|-----------|-------------|------------------|---------------------|-----------------|----------|----------------|----------------|-------------|----------|------------|
| NO        | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable loss [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1         | 2483.500    | 11.76            | 27.53               | 3.62            | 0.00     | 42.91          | 74.00          | 31.09       | PK       | Horizontal |
| 2         | 2489.200    | 13.40            | 27.56               | 3.62            | 0.00     | 44.58          | 74.00          | 29.42       | 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.

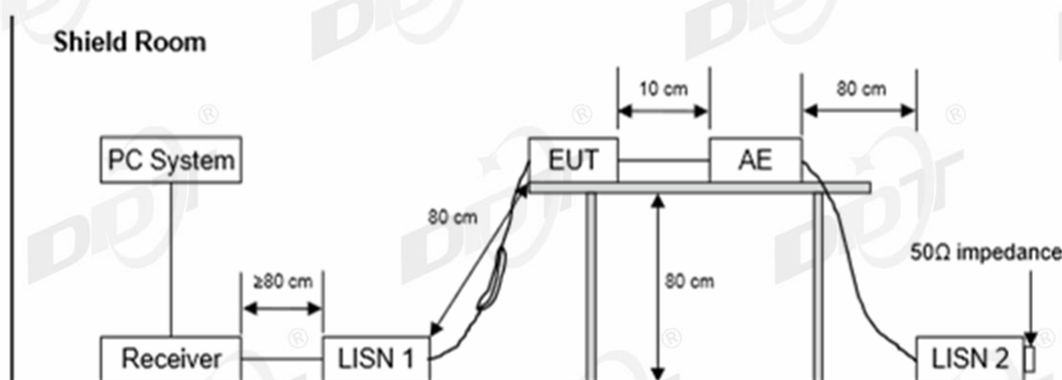
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## 16.Power Line Conducted Emissions

### 16.1. Test equipment

| Equipment                                 | Manufacturer    | Model No.     | Serial No.  | Cal Due To |
|-------------------------------------------|-----------------|---------------|-------------|------------|
| Two Line V-Network                        | R&S             | ENV216        | DDT-ZC02056 | 2025/07/08 |
| Pulse Limiter                             | SCHWARZBEC<br>K | VTSD 9561     | DDT-ZC02128 | 2025/07/08 |
| Conducted Radiated Software               | Audix           | E3            | DDT-ZC00562 | /          |
| Three-phase artificial power network      | SCHWARZBEC<br>K | NSLK 8163     | DDT-ZC01572 | 2025/07/08 |
| RF Cable                                  | Yuhu Technology | Z806-NJ-NJ-6M | DDT-ZC02004 | 2025/07/08 |
| Two Line V-Network                        | R&S             | ENV216        | DDT-ZC02059 | 2025/07/08 |
| $\Delta$ -shaped artificial power network | SCHWARZBEC<br>K | PVDC 8301     | DDT-ZC03939 | 2025/03/31 |
| EMI Test Receiver                         | R&S             | ESCI/E3       | DDT-ZC01297 | 2025/07/08 |

### 16.2. Block diagram of test setup



### 16.3. Limits

| Frequency       | Quasi-Peak Level<br>dB(uV) | Average Level<br>dB(uV) |
|-----------------|----------------------------|-------------------------|
| 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 |
|---------------------|--------------|--------------|-------------|-------|
| /                   | /            | /            | /           | /     |

### 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

N/A

Measurements to demonstrate compliance with the conducted limits are not required for devices which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines..

## 18. Photos of the EUT

Please refer to DDT-Q24110418-1E appendix I

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