



## RADIO TEST REPORT

|                         |   |                                                                                                                                                           |
|-------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant               | : | ASA Electronics Shenzhen Limited                                                                                                                          |
| Address of Applicant    | : | Room 503,5/F.,Unit A, Skyworth Building, Gaoxin Avenue.1.S., Nanshan District, Shen Zhen, 518057, China                                                   |
| Manufacturer            | : | ASA Electronics, LLC.                                                                                                                                     |
| Address of Manufacturer | : | 2602 Marina Drive, Elkhart, IN 46514 USA                                                                                                                  |
| Equipment under Test    | : | playback source unit                                                                                                                                      |
| Model No.               | : | XMH1, AXMH1, KMH1, SMH1, BAMH1, RMAXMH1, RMKMH1, RMSMH1, RMBAMH1, RMXMH1                                                                                  |
| FCC ID                  | : | 2AHU2XMH1                                                                                                                                                 |
| Test Standard(s)        | : | FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020, ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024                            |
| Report No.              | : | DDT-RE25121219-5E01                                                                                                                                       |
| Issue Date              | : | 2026/06/05                                                                                                                                                |
| Issue By                | : | Guangdong Dongdian Testing Service Co., Ltd.<br>Unit 2, Building 1, No. 17, Zongbu 2nd Road,<br>Songshan Lake Park, Dongguan, Guangdong, China,<br>523808 |

# REPORT

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Test Report Declare

|                         |   |                                                                                                            |
|-------------------------|---|------------------------------------------------------------------------------------------------------------|
| Applicant               | : | ASA Electronics Shenzhen Limited                                                                           |
| Address of Applicant    | : | Room 503,5/F.,Unit A, Skyworth Building, Gaoxin Avenue.1.S.,<br>Nanshan District, Shen Zhen, 518057, China |
| Equipment under Test    | : | playback source unit                                                                                       |
| Model No.               | : | XMH1, AXMH1, KMH1, SMH1, BAMH1, RMAXMH1, RMKMH1,<br>RMSMH1, RMBAMH1, RMXMH1                                |
| Manufacturer            | : | ASA Electronics, LLC.                                                                                      |
| Address of Manufacturer | : | 2602 Marina Drive, Elkhart, IN 46514 USA                                                                   |

Test Standard Used:  
FCC Rules and Regulations Part 15 Subpart C,  
ANSI C63.10-2020,  
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

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-RE25121219-5E01 |               |                         |
| Date of Receipt: | 2025/12/17          | Date of Test: | 2025/12/17 - 2025/12/26 |

|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Created: Damon Hu                                                                   | Reviewed: Chen Ziqin                                                                | Approved: Ella Gong                                                                   |
|  |  |  |
| 2026/01/04                                                                          | 2026/06/05                                                                          | 2026/06/05                                                                            |

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

| Version | Revision Content | Issue Date | Approved  |
|---------|------------------|------------|-----------|
| V0      | Initial issue    | 2026/06/05 | Ella Gong |
|         |                  |            |           |

## 1. Summary of Test Results

| No.                                                                                                                                              | Test Parameter                  | Clause No.                                                                                                                          | Condition | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|
| 1                                                                                                                                                | Maximum Peak Output Power       | 47 CFR Part 15 15.247(b)(1), RSS-247 clause 6.2.3.2(a)                                                                              | /         | Pass   |
| 2                                                                                                                                                | 20 dB Bandwidth                 | 47 CFR Part 15 15.247(a)(1), RSS-247 clause 6.2.3.1(a)                                                                              | /         | Pass   |
| 3                                                                                                                                                | 99% Bandwidth                   | RSS-Gen clause 6.7                                                                                                                  | /         | N/A    |
| 4                                                                                                                                                | Carrier Frequency Separation    | 47 CFR Part 15 15.247(a)(1), RSS-247 clause 6.2.3.1(a)                                                                              | /         | Pass   |
| 5                                                                                                                                                | Number of Hopping Channel       | 47 CFR Part 15 15.247(a)(1)(iii), RSS-247 clause 6.2.3.1(b)                                                                         | /         | Pass   |
| 6                                                                                                                                                | Dwell Time                      | 47 CFR Part 15 15.247(a)(1)(iii), RSS-247 clause 6.2.3.1(b)                                                                         | /         | Pass   |
| 7                                                                                                                                                | RF Conducted Spurious Emissions | 47 CFR Part 15 15.247(d), RSS-247 clause 6.6                                                                                        | /         | Pass   |
| 8                                                                                                                                                | Radiated Emission               | 47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d), RSS-247 clause 6.6, RSS-Gen clause 8.9, RSS-Gen clause 8.10 | /         | Pass   |
| 9                                                                                                                                                | Band Edge Compliance            | 47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d), RSS-247 clause 6.6, RSS-Gen clause 8.9, RSS-Gen clause 8.10 | /         | Pass   |
| 10                                                                                                                                               | Power Line Conducted Emissions  | 47 CFR Part 15 15.207(a), RSS-Gen clause 8.8                                                                                        | /         | N/A    |
| 11                                                                                                                                               | Antenna Requirement             | 47 CFR Part 15 15.203, RSS-Gen clause 6.8                                                                                           | /         | 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                   | : playback source unit                                                                                                                        |
| Model Number               | : XMH1, AXMH1, KMH1, SMH1, BAMH1, RMAXMH1, RMKMH1, RMSMH1, RMBAMH1, RMXMH1                                                                    |
| Difference of model number | : Above models are identical in schematic and structure, only the model number are different, therefore the test performed on the model XMH1. |
| EUT Function Description   | : Please reference user manual of this device                                                                                                 |
| Power Supply               | : DC 12V                                                                                                                                      |
| Antenna Type               | : Wired antenna                                                                                                                               |
| Max Antenna Gain(dBi)      | : 3.45                                                                                                                                        |

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

| Bluetooth BR/EDR 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 | /  |      |

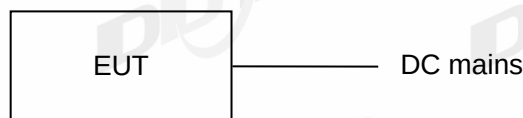
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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: Qualcomm BlueSuite 3.3.17-Blue test3

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, Tx Power Setting, Channel, and Frequency |                  |             |                 |
|-------------------------------------------------------|------------------|-------------|-----------------|
| Tested mode                                           | Tx Power Setting | Channel     | Frequency (MHz) |
| GFSK hopping on Tx mode                               | Default          | CH0 to CH78 | 2402 to 2480    |
| $\pi/4$ -DQPSK hopping on Tx mode                     | Default          | CH0 to CH78 | 2402 to 2480    |
| 8DPSK hopping on Tx mode                              | Default          | CH0 to CH78 | 2402 to 2480    |
| GFSK hopping off Tx mode                              | Default          | CH0         | 2402            |
|                                                       | Default          | CH39        | 2441            |
|                                                       | Default          | CH78        | 2480            |
| $\pi/4$ -DQPSK hopping off Tx mode                    | Default          | CH0         | 2402            |

|                                                                                                                                                                                  |         |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|
| 8DPSK hopping off Tx mode                                                                                                                                                        | Default | CH39 | 2441 |
|                                                                                                                                                                                  | Default | CH78 | 2480 |
|                                                                                                                                                                                  | Default | CH0  | 2402 |
|                                                                                                                                                                                  | Default | CH39 | 2441 |
|                                                                                                                                                                                  | Default | CH78 | 2480 |
| Note: According exploratory test, EUT will have maximum output power in those data rate, 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-20240, G-20118

## 2.8. Measurement uncertainty

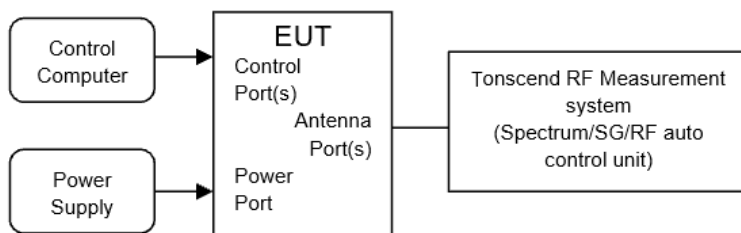
| Test Item                                                                                                                                     | Uncertainty                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Bandwidth                                                                                                                                     | 1.9%                                              |
| Peak Output Power (Conducted) (Spectrum analyzer)                                                                                             | 0.98 dB                                           |
| Peak Output Power (Conducted) (Power Sensor)                                                                                                  | 1.18 dB                                           |
| Power Spectral Density (Base EIRP)                                                                                                            | 1.51 dB                                           |
| Power Spectral Density (Spectrum analyzer)                                                                                                    | 0.98 dB                                           |
| Frequencies Stability                                                                                                                         | 1.9 kHz                                           |
| Conducted spurious emissions                                                                                                                  | 1.21 dB ( $9\text{ kHz} \leq f < 7\text{ GHz}$ ); |
|                                                                                                                                               | 3.31 dB ( $7\text{ GHz} \leq f < 40\text{ GHz}$ ) |
| Uncertainty for radio frequency (RBW < 20 kHz)                                                                                                | $5.5 \times 10^{-8}$                              |
| Time                                                                                                                                          | 0.11%                                             |
| Temperature                                                                                                                                   | 0.3 °C                                            |
| Humidity                                                                                                                                      | 2 %                                               |
| Uncertainty for Radiation Emission test<br>(9 kHz – 30 MHz)                                                                                   | 3.44 dB                                           |
| Uncertainty for Radiation Emission test<br>(30 MHz - 1 GHz)                                                                                   | 4.28 dB (Antenna Polarize: V)                     |
|                                                                                                                                               | 4.14 dB (Antenna Polarize: H)                     |
| Uncertainty for Radiation Emission test<br>(1 GHz - 40 GHz)                                                                                   | 4.22 dB (1 - 6 GHz)                               |
|                                                                                                                                               | 4.52 dB (6 GHz - 18 GHz)                          |
|                                                                                                                                               | 4.58 dB (18 GHz - 40 GHz)                         |
| Uncertainty for Power line conduction emission test                                                                                           | 3.32dB (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 2#) |              |           |               |            |
| SPECTRUM ANALYZER                                                                | R&S          | FSU26     | 201124        | 2026/07/06 |
| Power Sensor                                                                     | R&S          | NRP-Z22   | 101254        | 2026/07/06 |
| Test Software                                                                    | Tonscend     | JS1120-3  | V3.6.21       | 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 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                            |

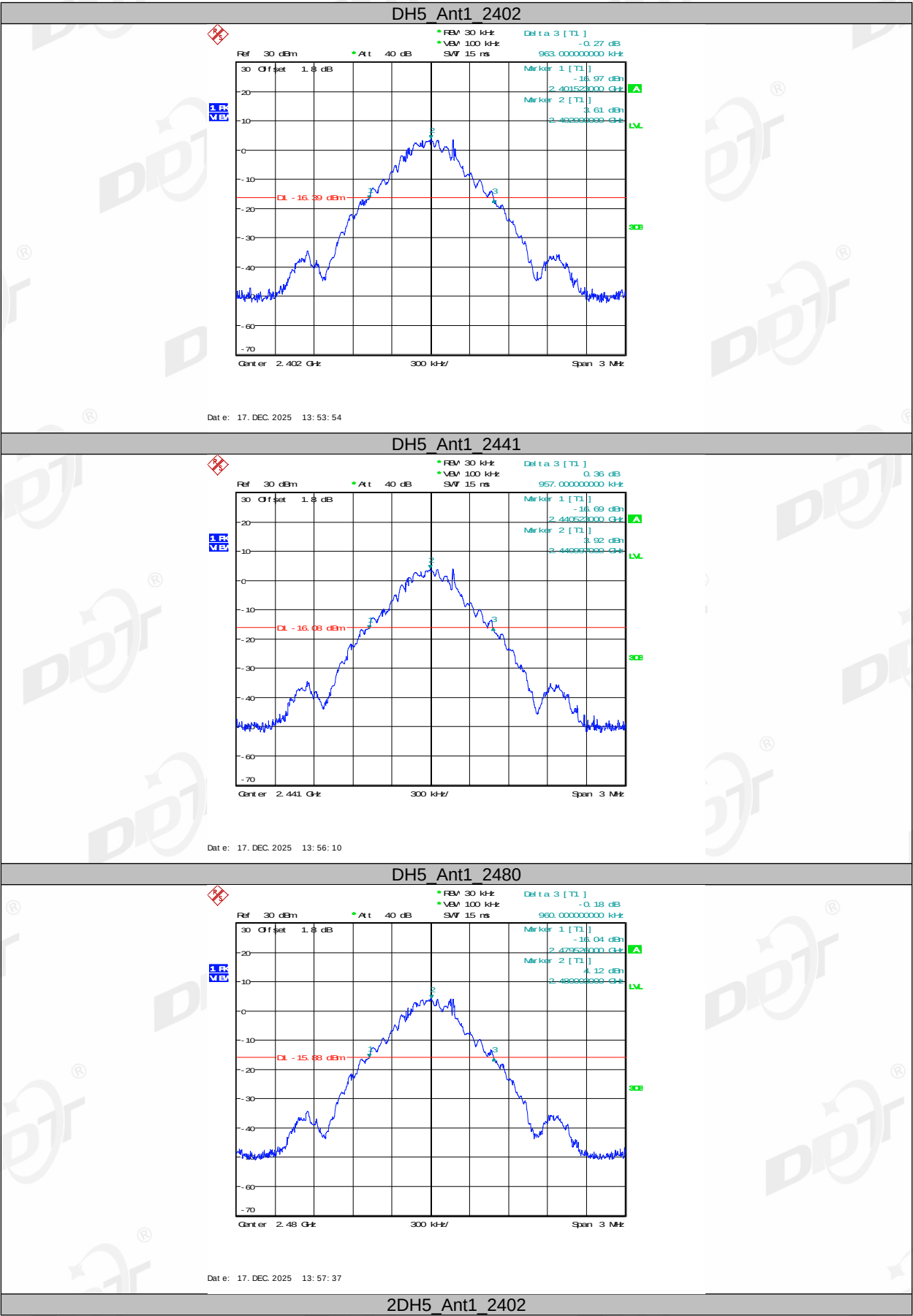
- (5) Measure and record the results in the report.

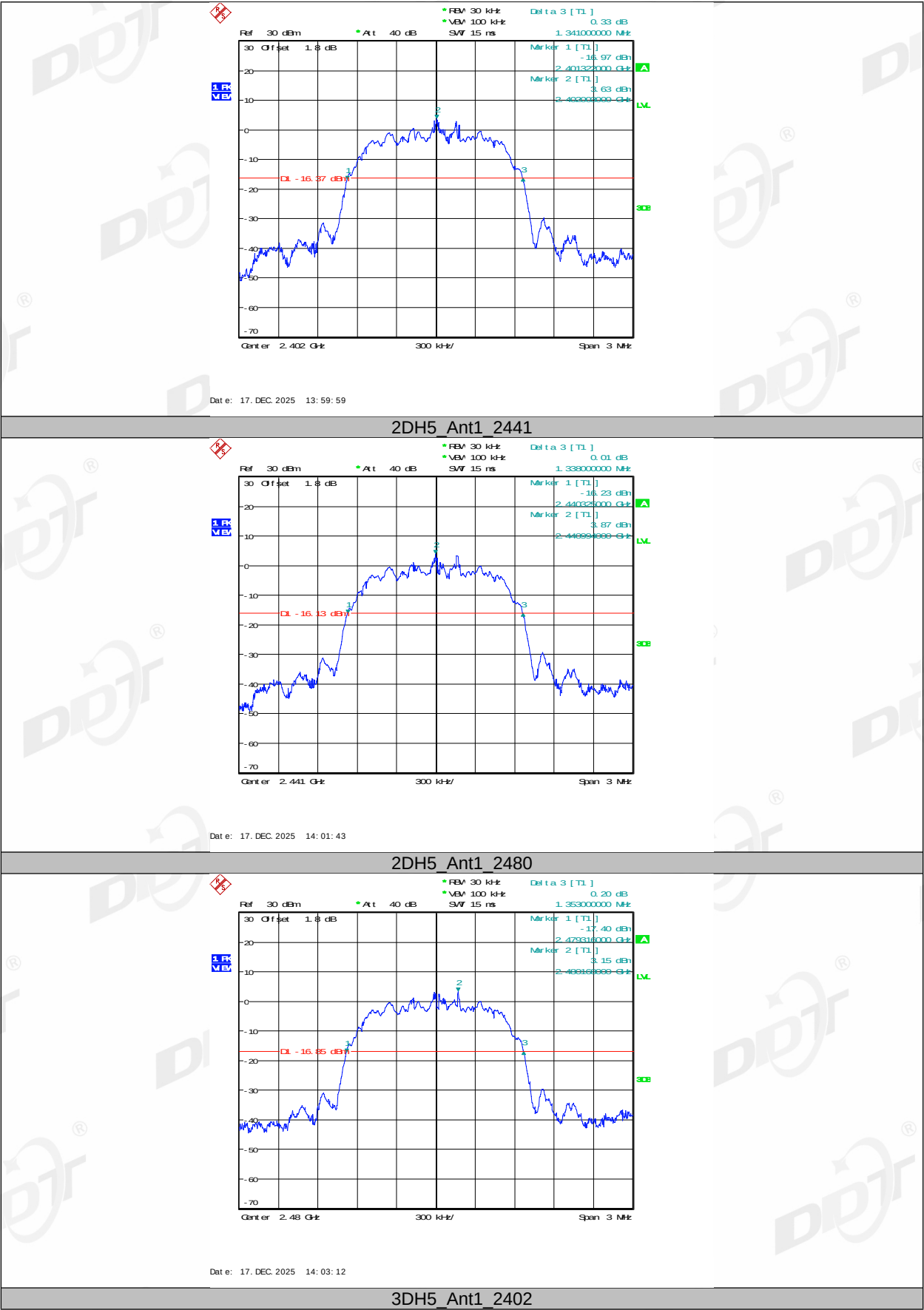
4.4. Test result

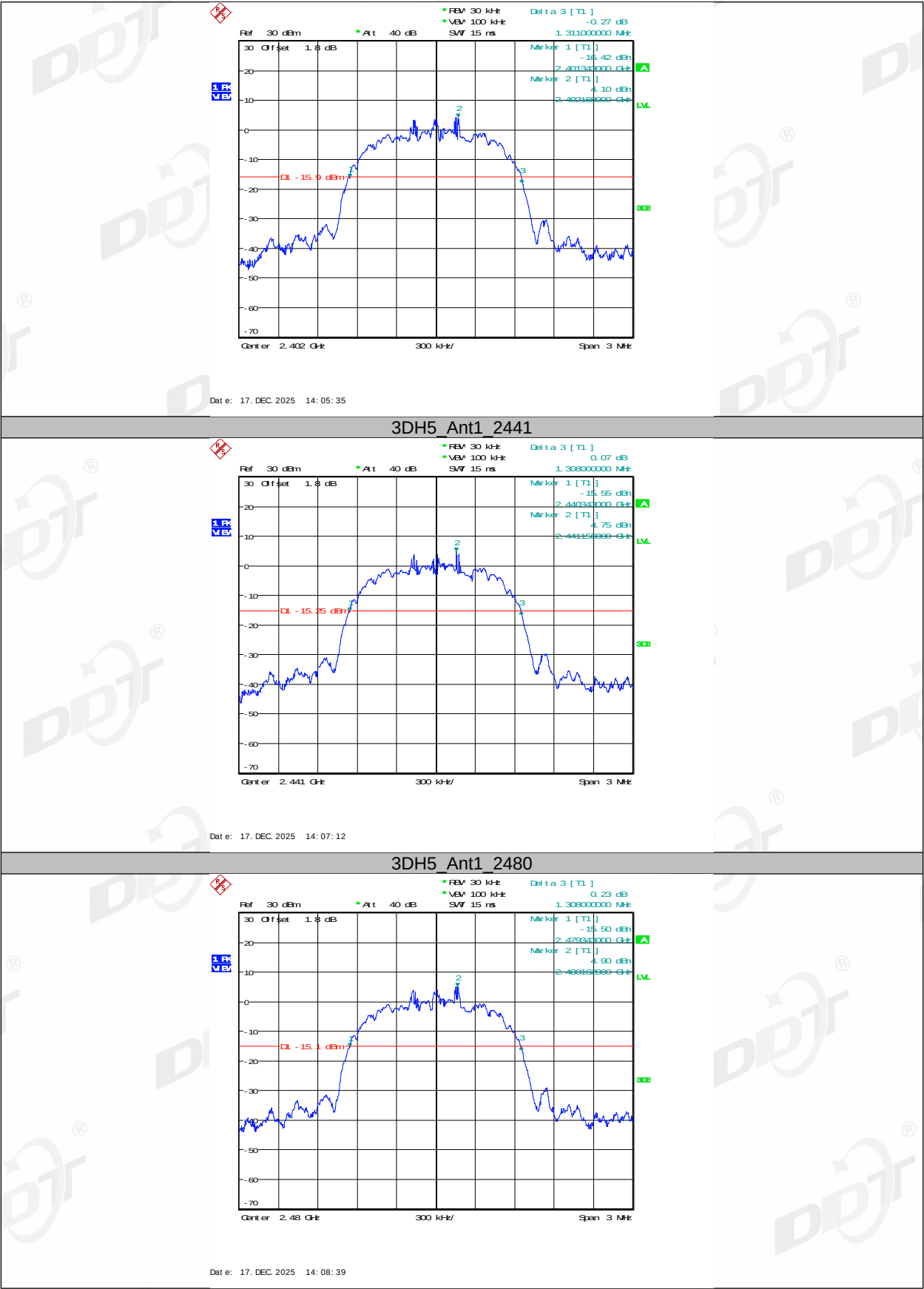
|                    |               |                |                          |
|--------------------|---------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen  | Test Site:     | RF Measurement system 2# |
| Ambient Condition: | 25.4℃,36.3%RH | Test Date:     | 2025.12.17-2025.12.17    |
| Test Power Supply: | DC 5V         | Sample Number: | S25121219-002            |

| Test Mode | Antenna | Frequency [MHz] | 20dB EBW[MHz] |
|-----------|---------|-----------------|---------------|
| DH5       | Ant1    | 2402            | 0.96          |
|           |         | 2441            | 0.96          |
|           |         | 2480            | 0.96          |
| 2DH5      | Ant1    | 2402            | 1.34          |
|           |         | 2441            | 1.34          |
|           |         | 2480            | 1.35          |
| 3DH5      | Ant1    | 2402            | 1.31          |
|           |         | 2441            | 1.31          |
|           |         | 2480            | 1.31          |

4.5. Test graphs

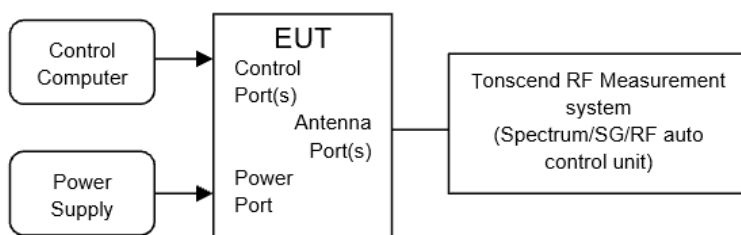






## 5. Maximum Peak Output Power

### 5.1. Block diagram of test setup



### 5.2. 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.

### 5.3. Test procedure

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

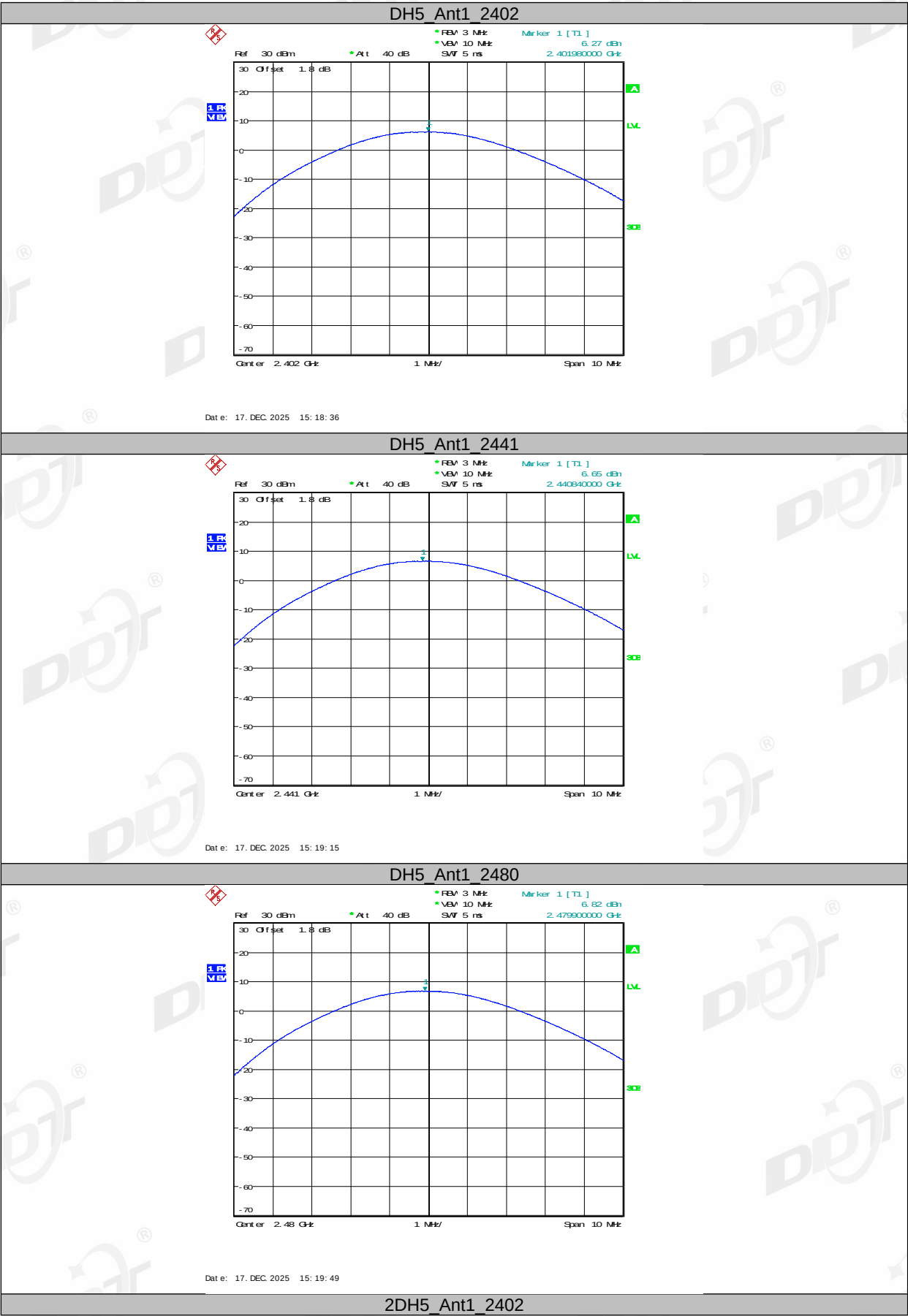
|                |                                                                              |
|----------------|------------------------------------------------------------------------------|
| RBW:           | > 20 dB bandwidth of the emission being measured.                            |
| VBW:           | 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.

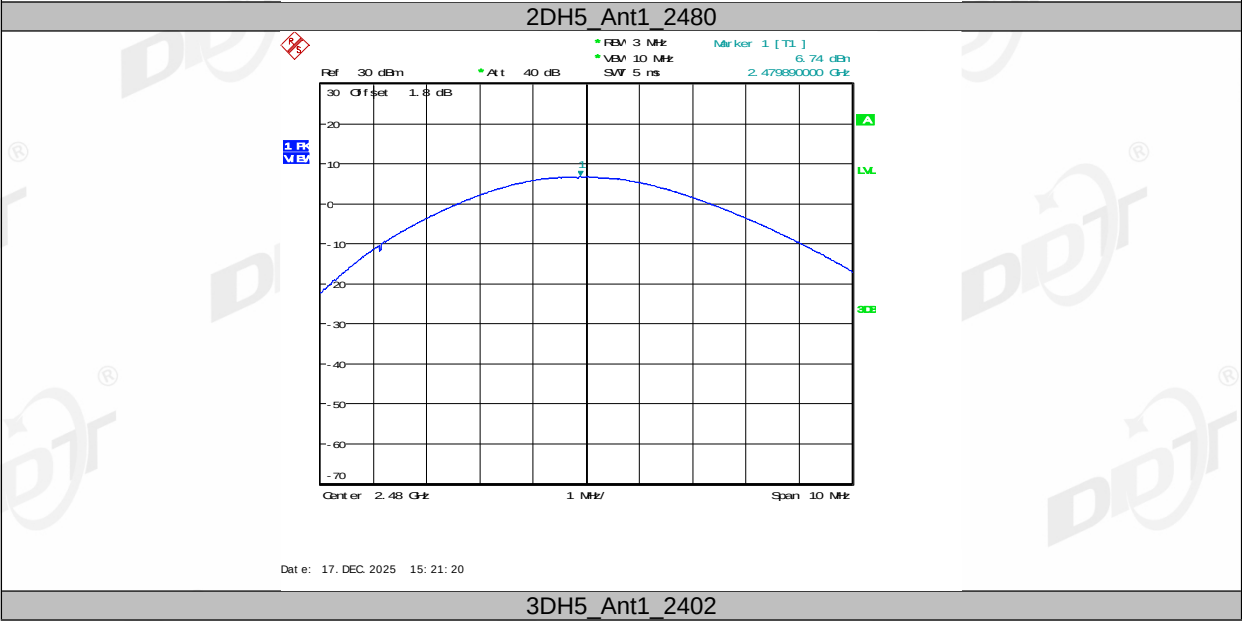
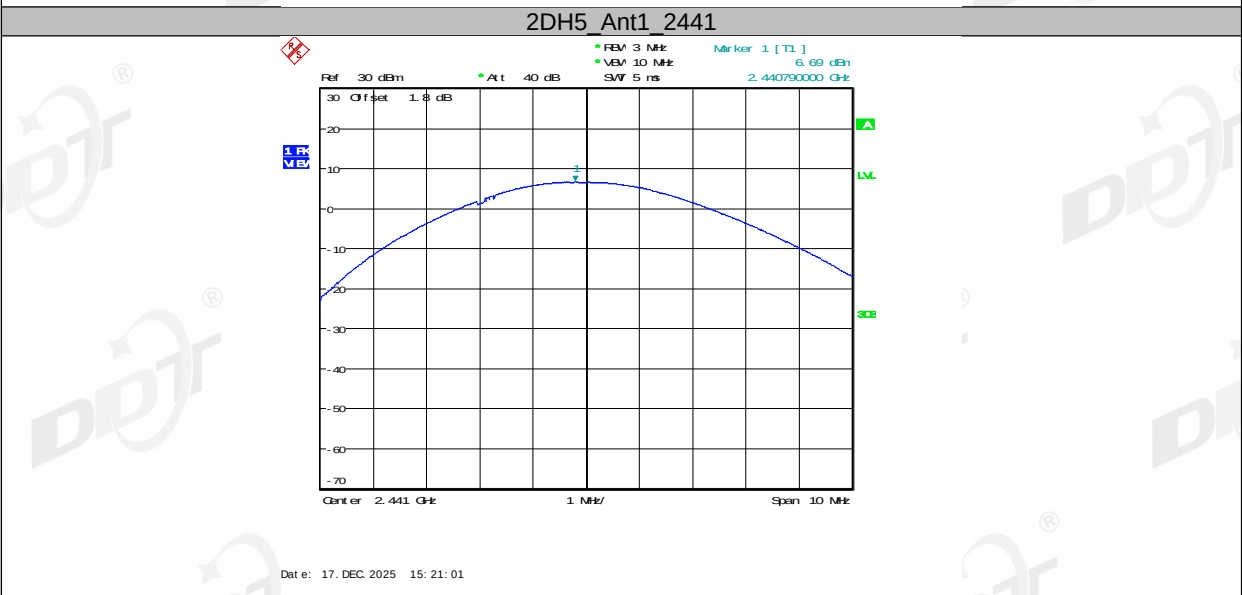
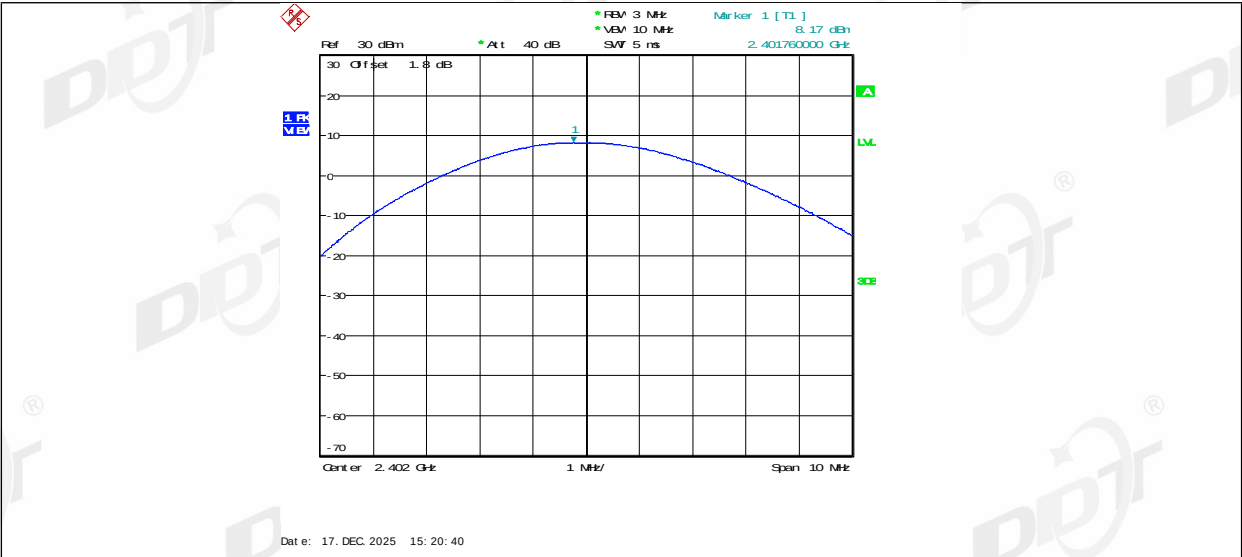
5.4. Test result

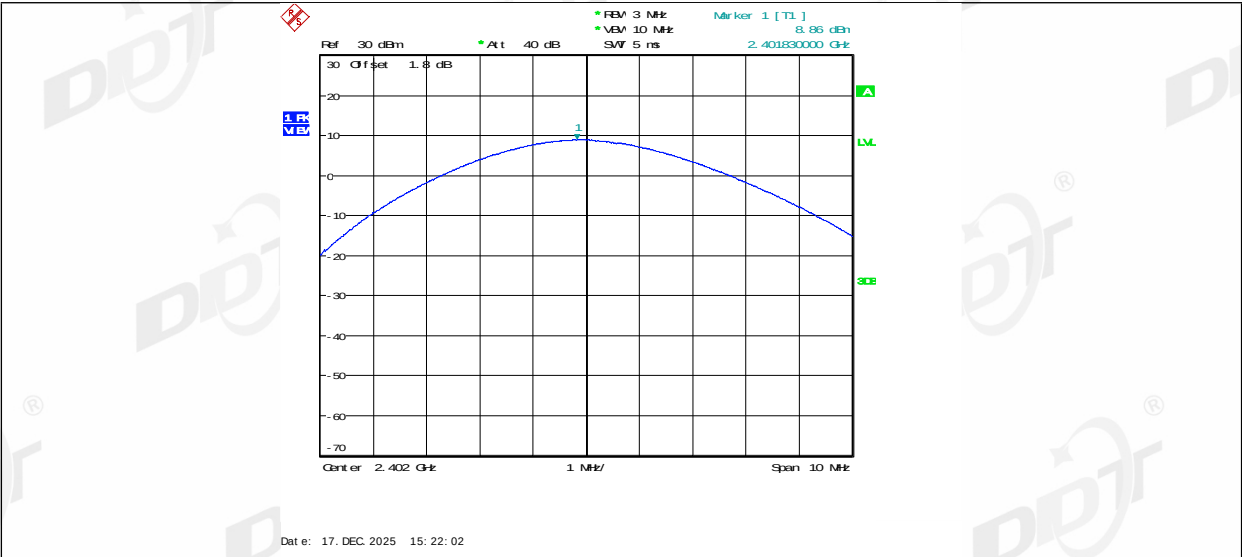
|                    |               |                |                          |
|--------------------|---------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen  | Test Site:     | RF Measurement system 2# |
| Ambient Condition: | 25.4℃,36.3%RH | Test Date:     | 2025.12.17-2025.12.17    |
| Test Power Supply: | DC 5V         | Sample Number: | S25121219-002            |

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402            | 6.27                      | ≤20.97               | PASS    |
|           |         | 2441            | 6.65                      | ≤20.97               | PASS    |
|           |         | 2480            | 6.82                      | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2402            | 8.17                      | ≤20.97               | PASS    |
|           |         | 2441            | 6.69                      | ≤20.97               | PASS    |
|           |         | 2480            | 6.74                      | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2402            | 8.86                      | ≤20.97               | PASS    |
|           |         | 2441            | 9.29                      | ≤20.97               | PASS    |
|           |         | 2480            | 9.55                      | ≤20.97               | PASS    |

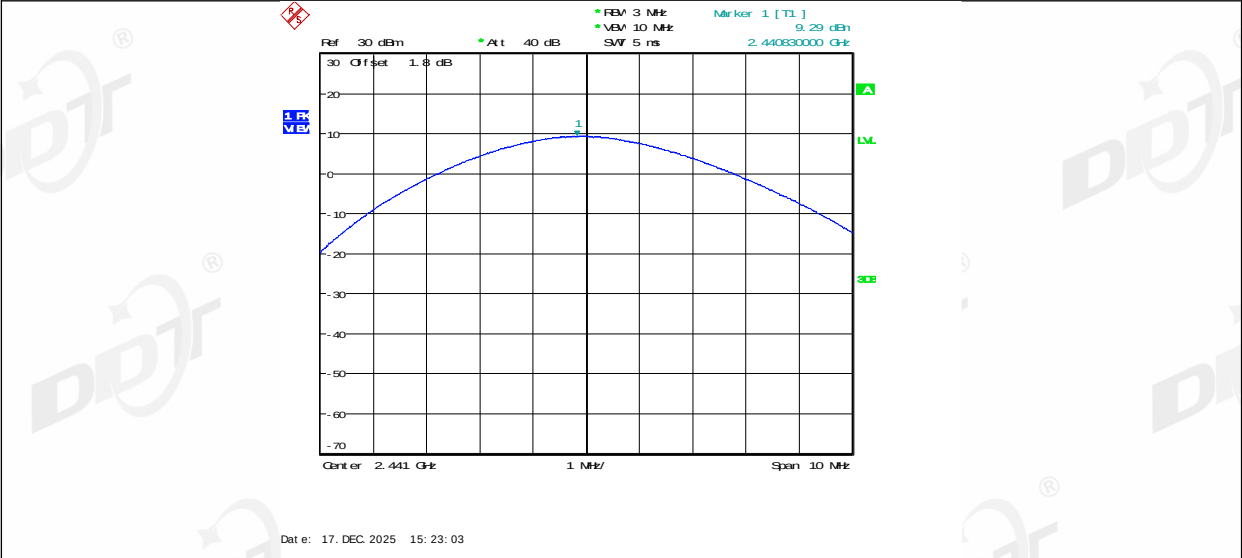
5.5. Test graphs



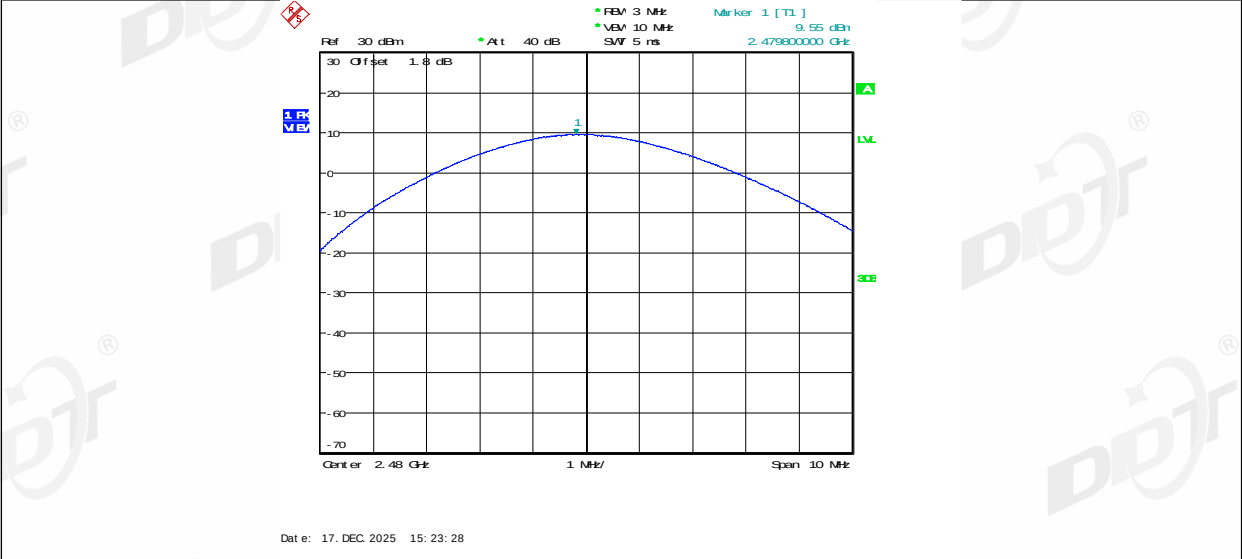




3DH5\_Ant1\_2441

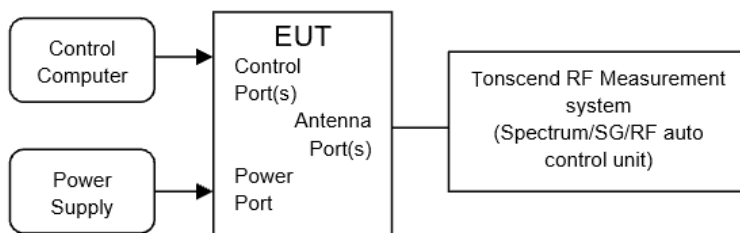


3DH5\_Ant1\_2480



## 6. Carrier Frequency Separation

### 6.1. Block diagram of test setup



### 6.2. 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.

### 6.3. Test procedure

- (1) The test according to ANSI C63.10 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.

6.4. Test result

|                    |               |                |                          |
|--------------------|---------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen  | Test Site:     | RF Measurement system 2# |
| Ambient Condition: | 25.4℃,36.3%RH | Test Date:     | 2025.12.17-2025.12.17    |
| Test Power Supply: | DC 5V         | Sample Number: | S25121219-002            |

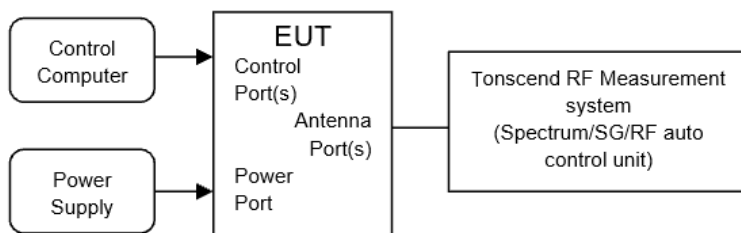
| Test Mode | Antenna | Frequency [MHz] | Result [MHz] | Limit [MHz] | Verdict |
|-----------|---------|-----------------|--------------|-------------|---------|
| DH5       | Ant1    | Hop             | 0.994        | ≥0.960      | PASS    |
| 2DH5      | Ant1    | Hop             | 1.003        | ≥0.900      | PASS    |
| 3DH5      | Ant1    | Hop             | 1.003        | ≥0.873      | PASS    |

6.5. Test graphs



## 7. Dwell Time

### 7.1. Block diagram of test setup



### 7.2. 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.

### 7.3. Test procedure

- (1) The test according to ANSI C63.10 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:  $\leq$  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 Dwell time = total hops \* pulse's on time.
- (7) Measure and record the results in the report.

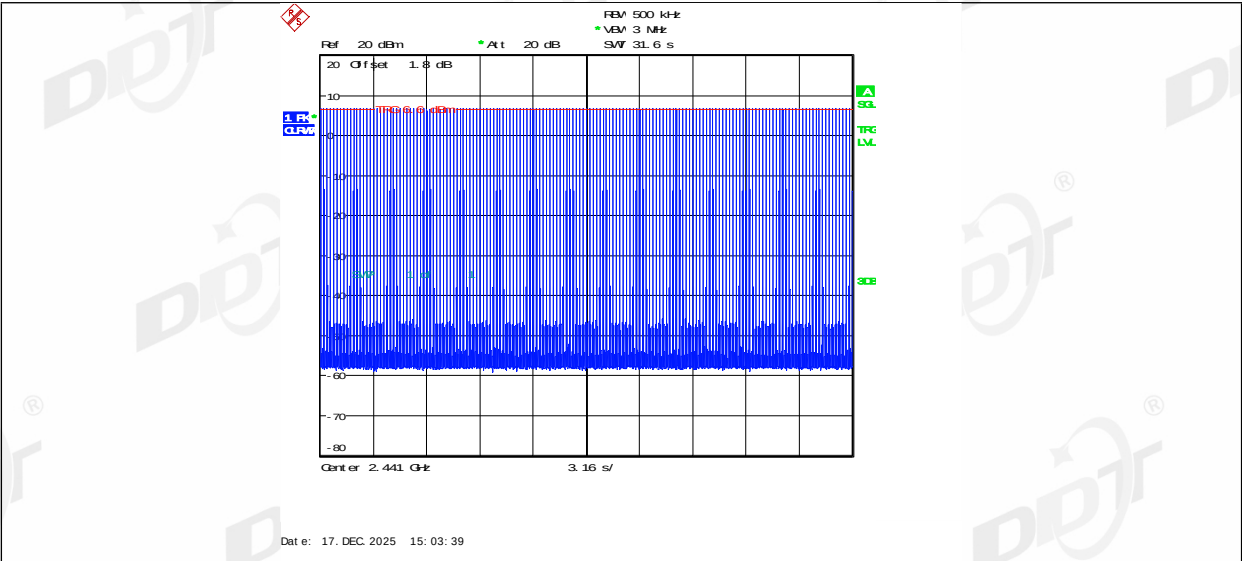
7.4. Test result

|                    |               |                |                          |
|--------------------|---------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen  | Test Site:     | RF Measurement system 2# |
| Ambient Condition: | 25.4℃,36.3%RH | Test Date:     | 2025.12.17-2025.12.17    |
| Test Power Supply: | DC 5V         | Sample Number: | S25121219-002            |

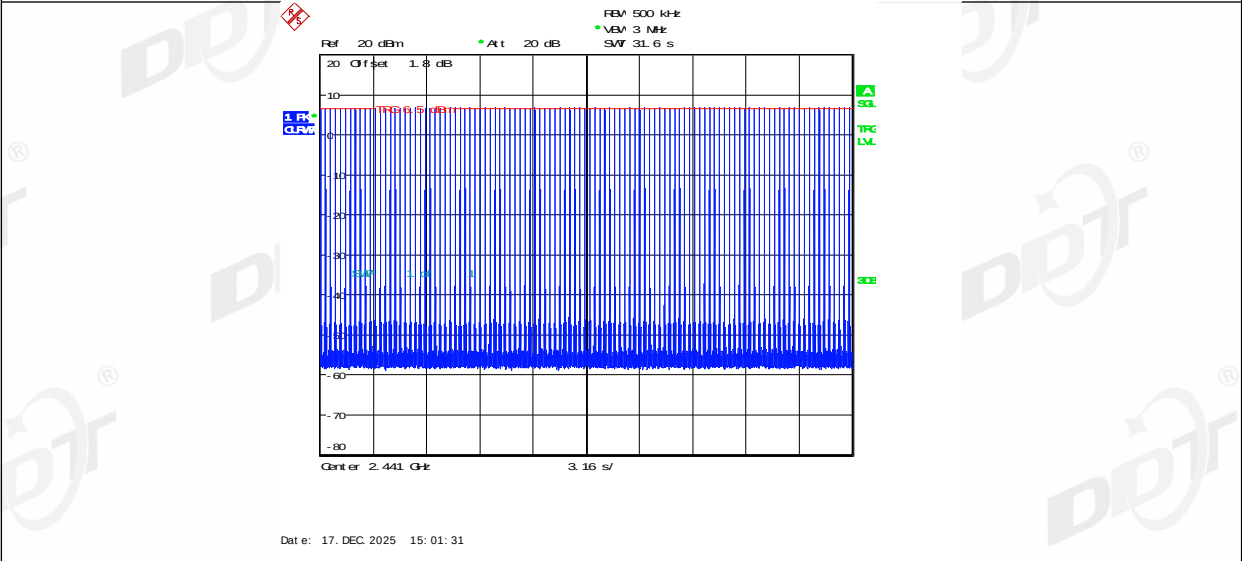
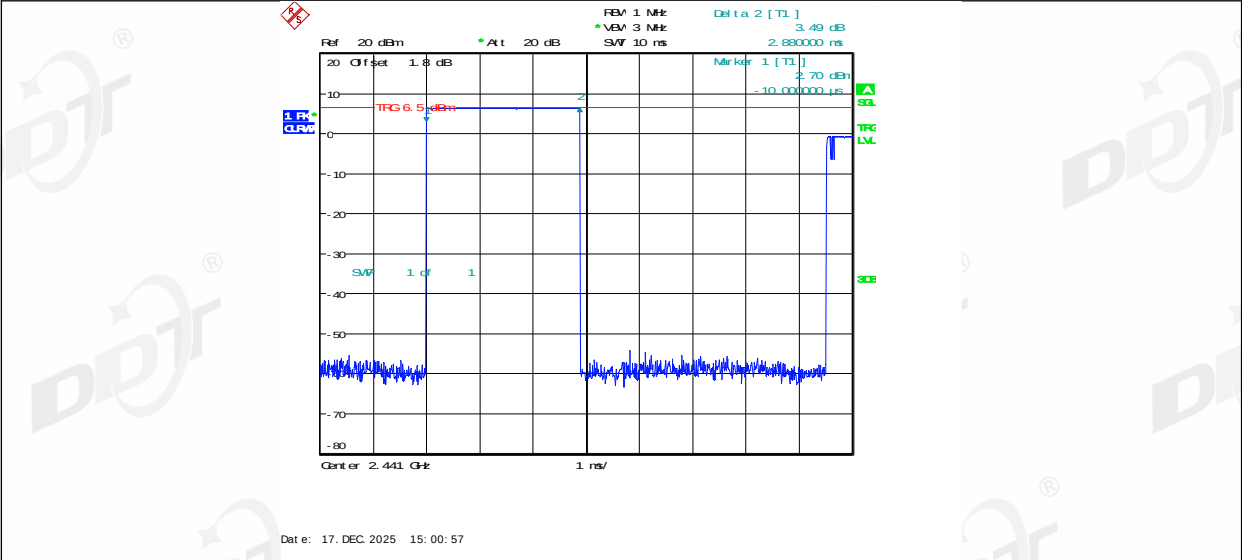
| Test Mode | Antenna | Frequency [MHz] | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit[s] | Verdict |
|-----------|---------|-----------------|-----------------|-----------------|-----------|----------|---------|
| DH1       | Ant1    | Hop             | 0.370           | 320             | 0.118     | ≤0.4     | PASS    |
| DH3       | Ant1    | Hop             | 1.630           | 160             | 0.261     | ≤0.4     | PASS    |
| DH5       | Ant1    | Hop             | 2.880           | 107             | 0.308     | ≤0.4     | PASS    |
| 2DH1      | Ant1    | Hop             | 0.380           | 320             | 0.122     | ≤0.4     | PASS    |
| 2DH3      | Ant1    | Hop             | 2.890           | 107             | 0.309     | ≤0.4     | PASS    |
| 2DH5      | Ant1    | Hop             | 2.890           | 107             | 0.309     | ≤0.4     | PASS    |
| 3DH1      | Ant1    | Hop             | 0.380           | 320             | 0.122     | ≤0.4     | PASS    |
| 3DH3      | Ant1    | Hop             | 1.640           | 160             | 0.262     | ≤0.4     | PASS    |
| 3DH5      | Ant1    | Hop             | 2.890           | 107             | 0.309     | ≤0.4     | PASS    |

7.5. Test graphs



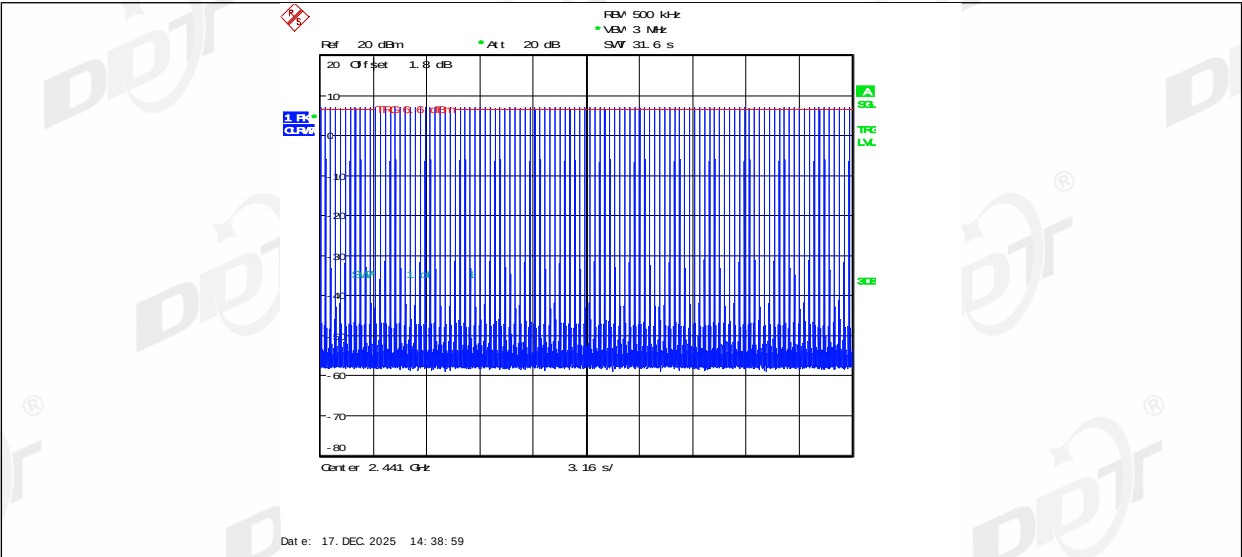


DH5\_Ant1\_Hop



2DH1\_Ant1\_Hop



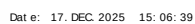




Dat e: 17. DEC. 2025 15: 11: 48

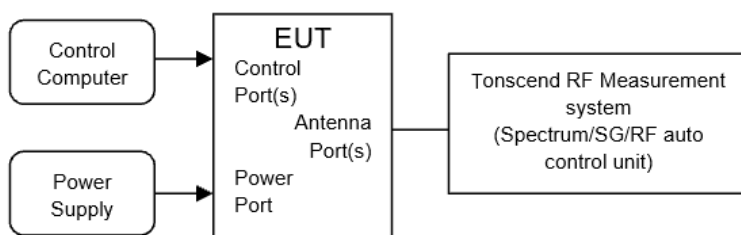


## 3DH5\_Ant1\_Hop



## 8. Number of Hopping Channel

### 8.1. Block diagram of test setup



### 8.2. Limits

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

### 8.3. Test procedure

- (1) The test according to ANSI C63.10 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.

8.4. Test result

|                    |               |                |                          |
|--------------------|---------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen  | Test Site:     | RF Measurement system 2# |
| Ambient Condition: | 25.4℃,36.3%RH | Test Date:     | 2025.12.17-2025.12.17    |
| Test Power Supply: | DC 5V         | Sample Number: | S25121219-002            |

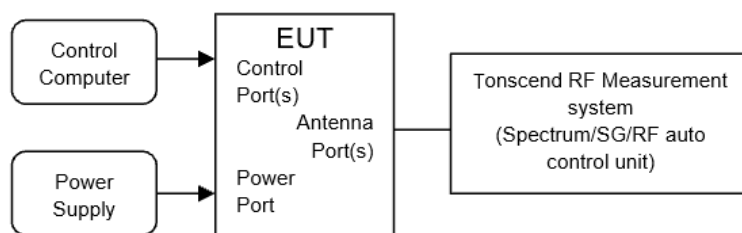
| Test Mode | Antenna | Frequency [MHz] | Result [Num] | Limit [Num] | Verdict |
|-----------|---------|-----------------|--------------|-------------|---------|
| DH5       | Ant1    | Hop             | 79           | ≥15         | PASS    |
| 2DH5      | Ant1    | Hop             | 79           | ≥15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

8.5. Test graphs



## 9. Band Edge Compliance (Conducted Method)

### 9.1. Block diagram of test setup



### 9.2. Limit

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

### 9.3. Test procedure

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

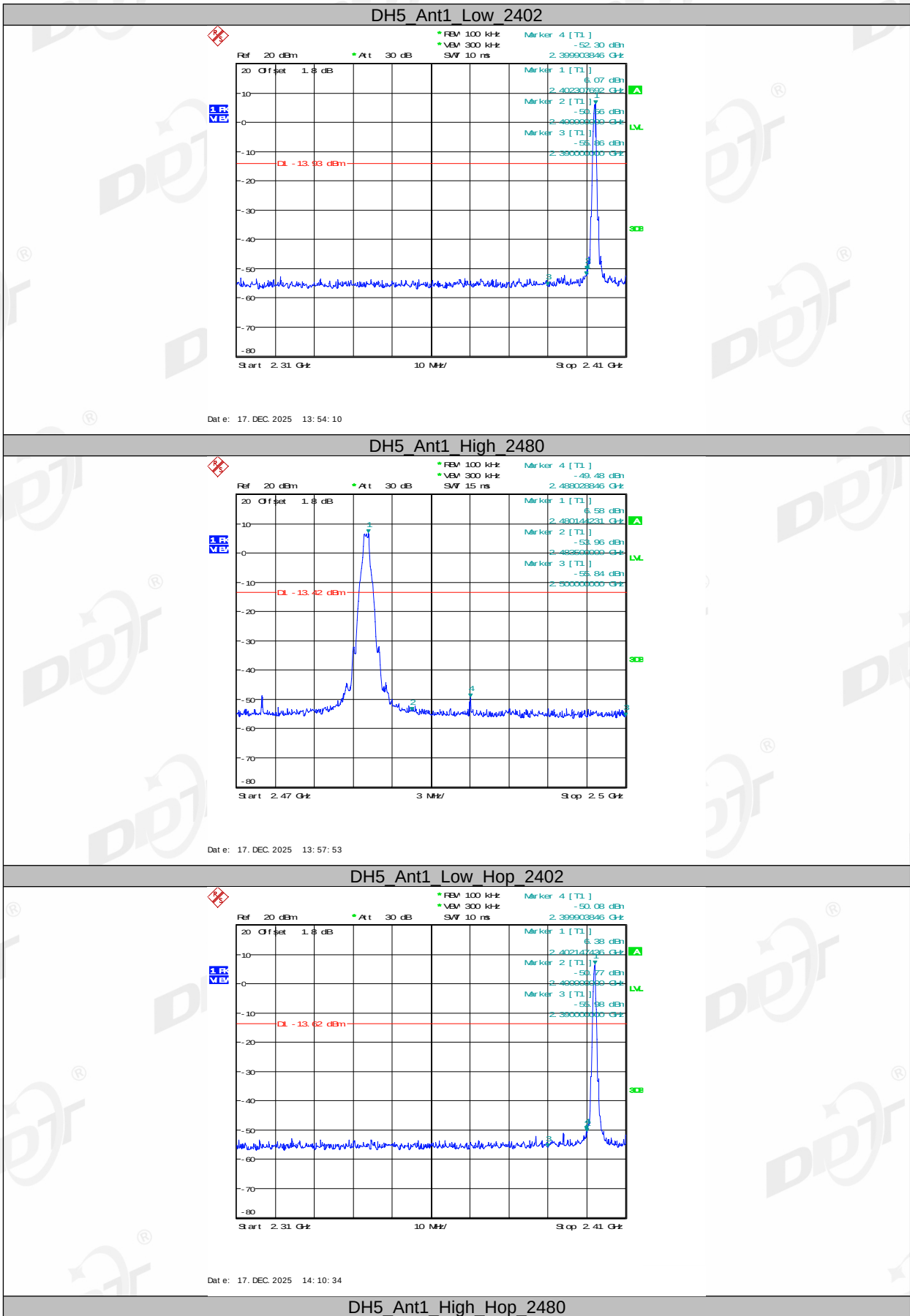
|                |                                          |
|----------------|------------------------------------------|
| RBW:           | 100 kHz                                  |
| VBW:           | 300 kHz                                  |
| Span           | Encompass frequency range to be measured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

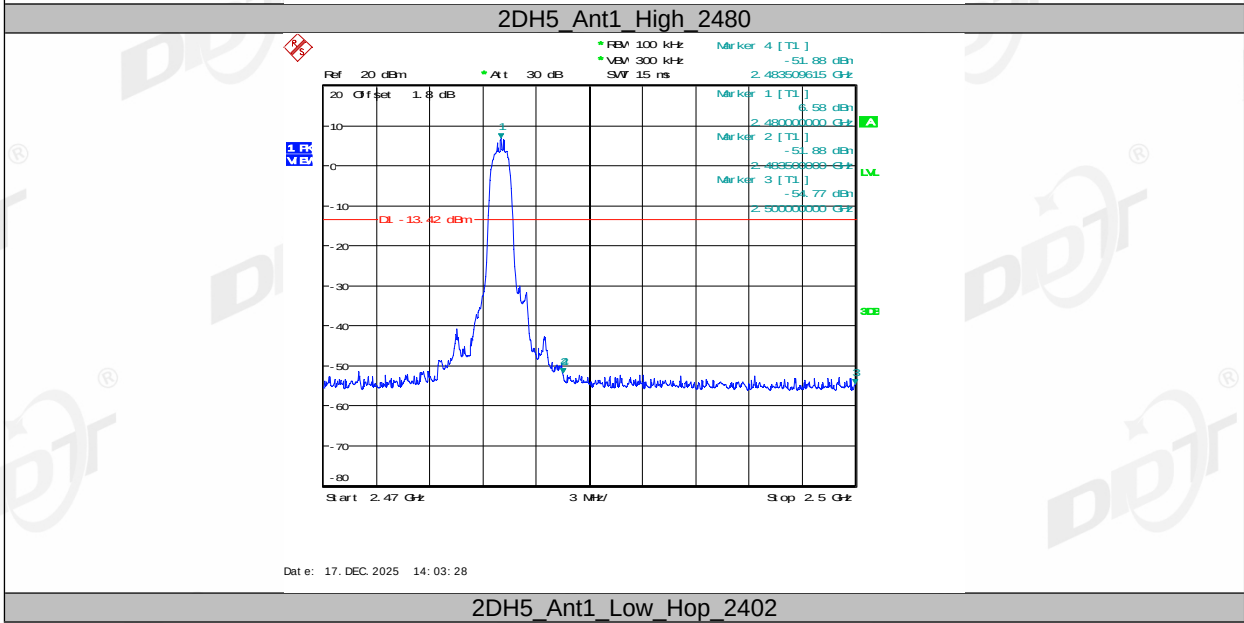
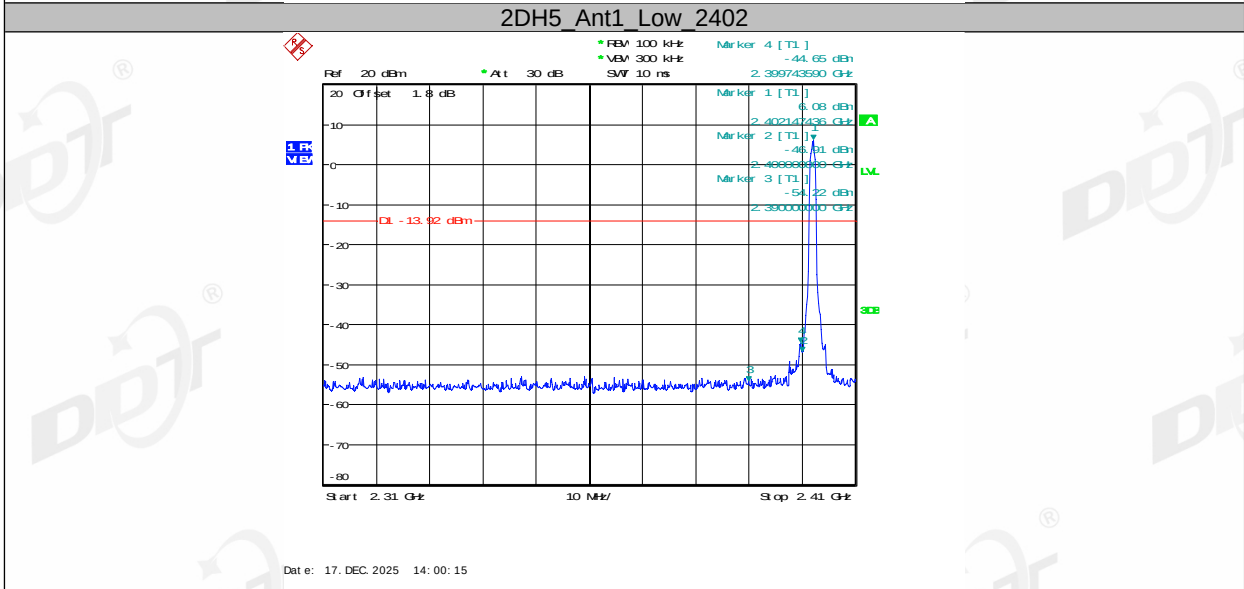
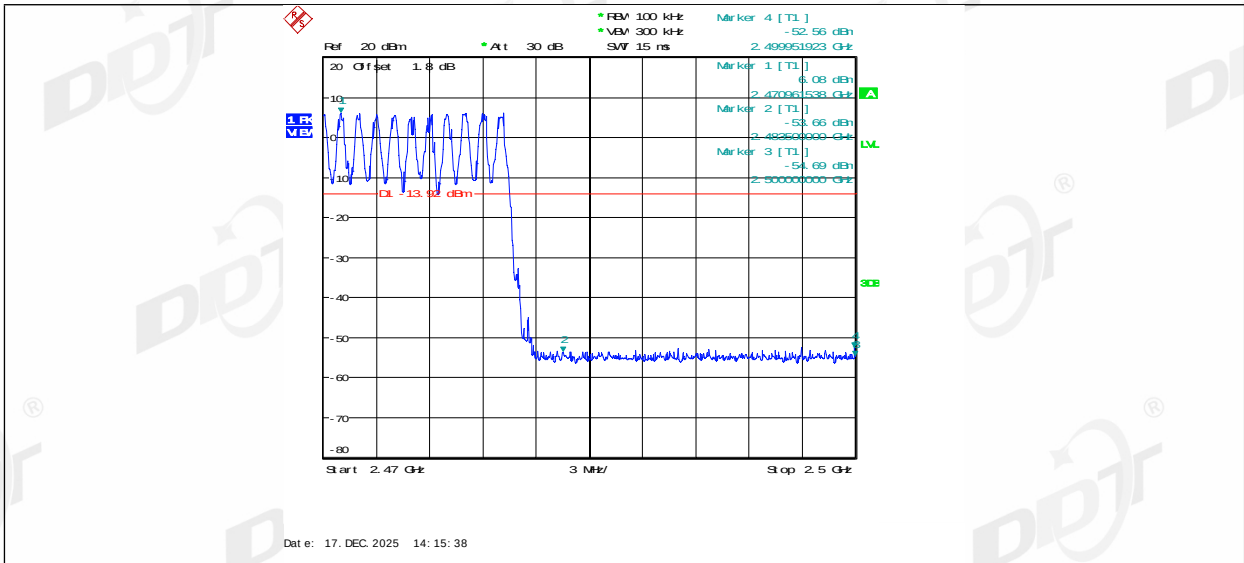
9.4. Test result

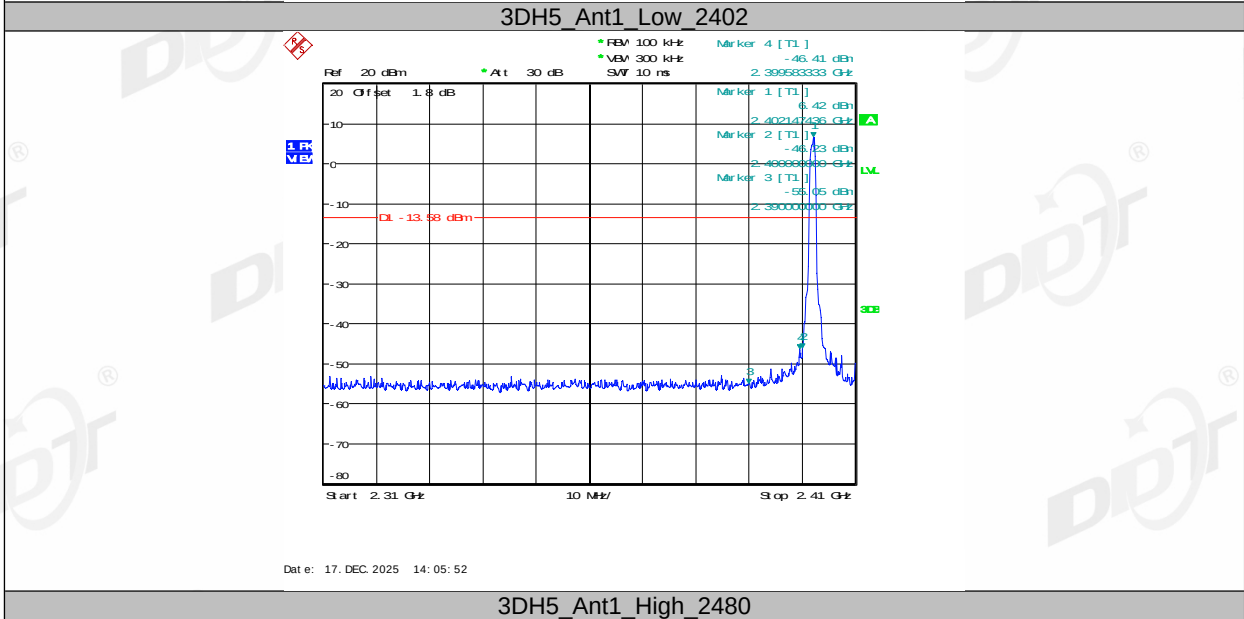
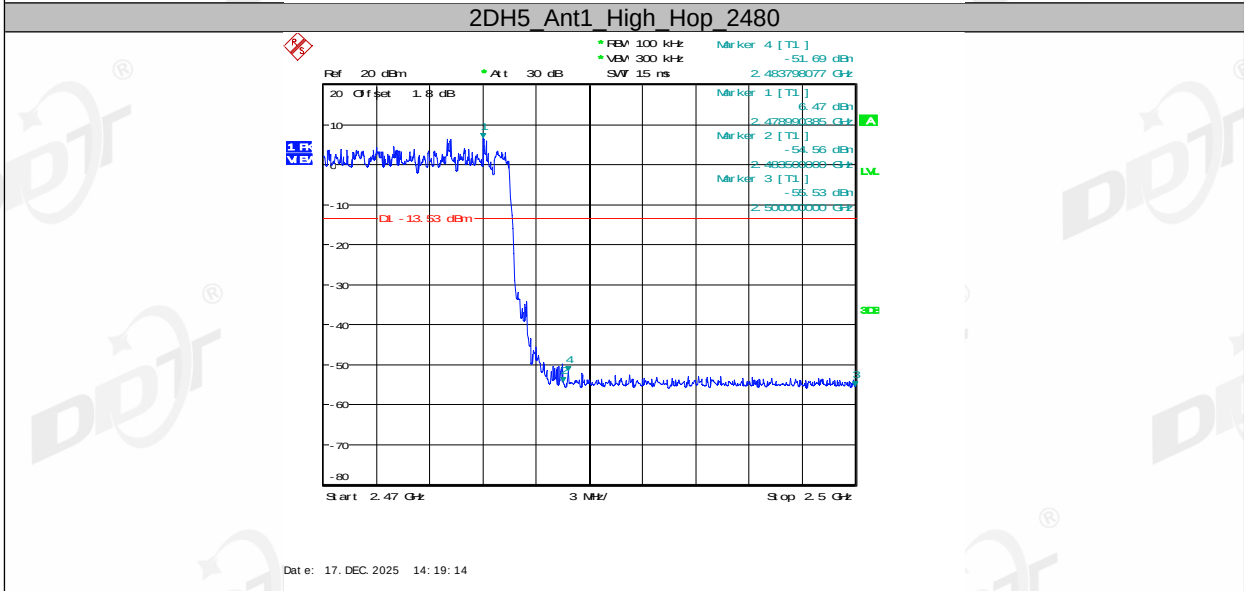
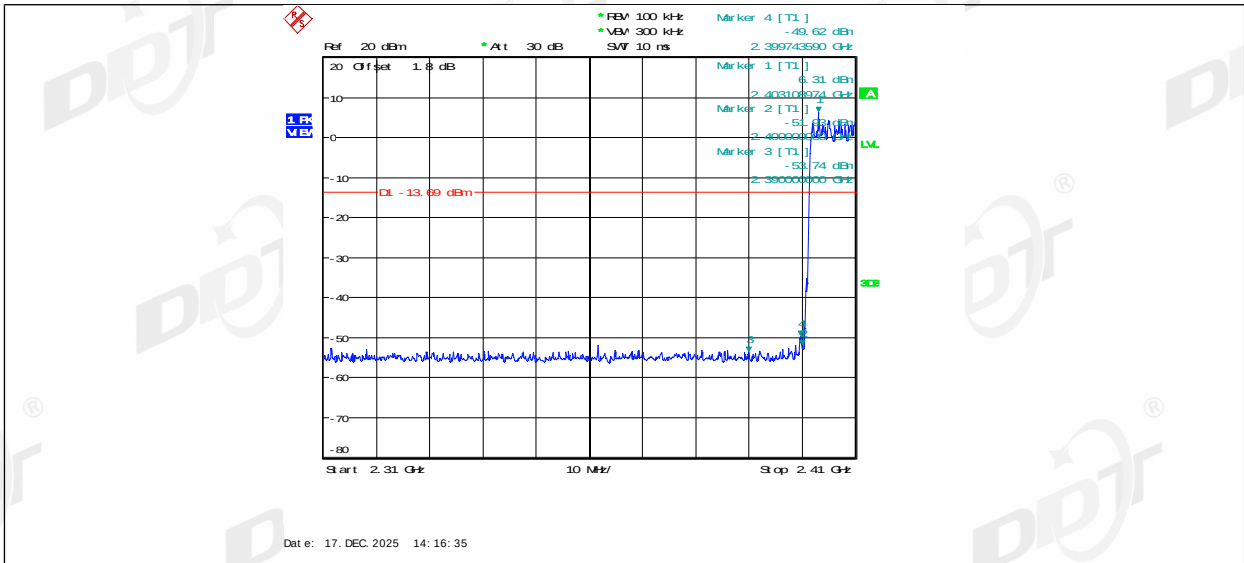
|                    |               |                |                          |
|--------------------|---------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen  | Test Site:     | RF Measurement system 2# |
| Ambient Condition: | 25.4℃,36.3%RH | Test Date:     | 2025.12.17-2025.12.17    |
| Test Power Supply: | DC 5V         | Sample Number: | S25121219-002            |

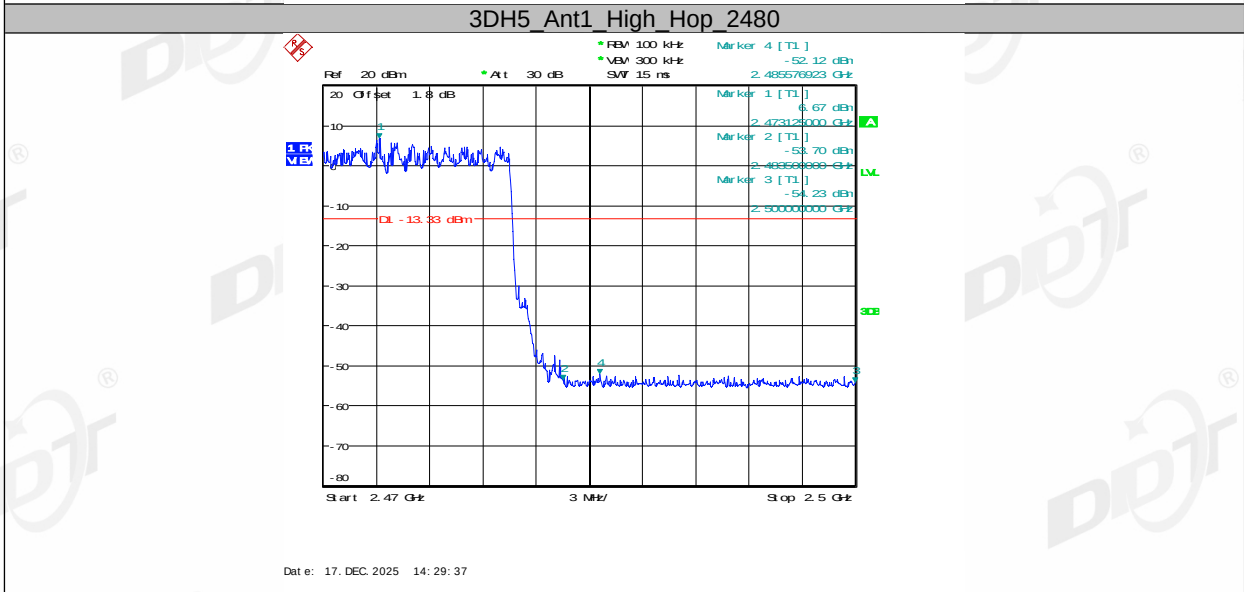
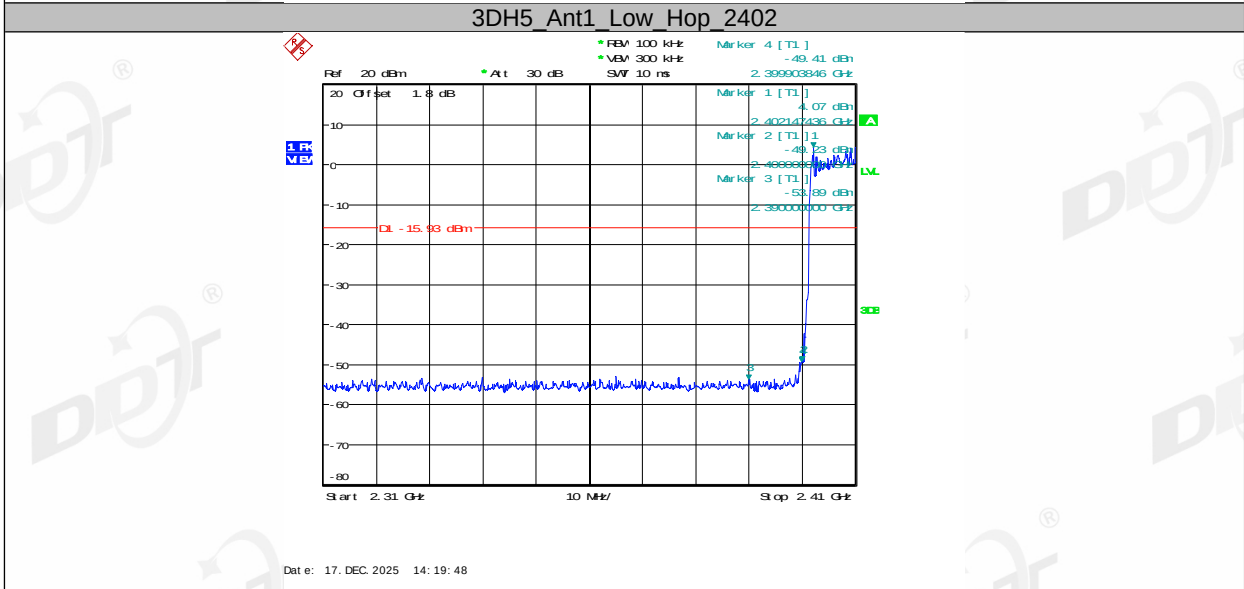
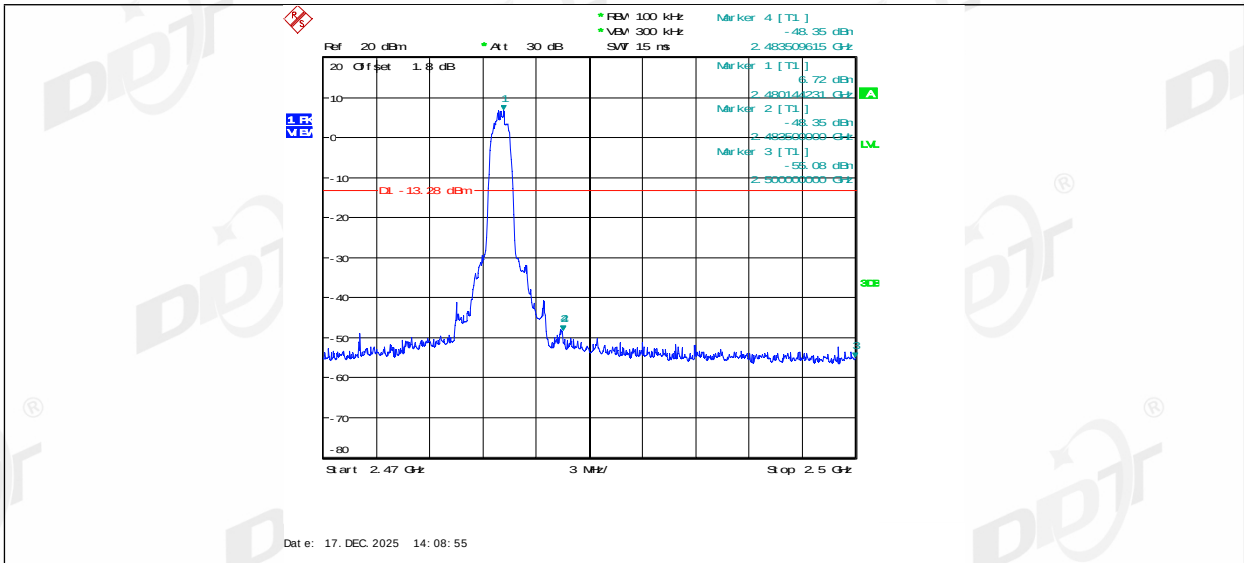
|                |                  |         |
|----------------|------------------|---------|
| Mode           | Freq. (MHz)      | Verdict |
| GFSK           | Hopping off 2402 | Pass    |
|                | Hopping off 2480 | Pass    |
|                | Hopping on       | Pass    |
| $\pi/4$ -DQPSK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

9.5. Test graphs



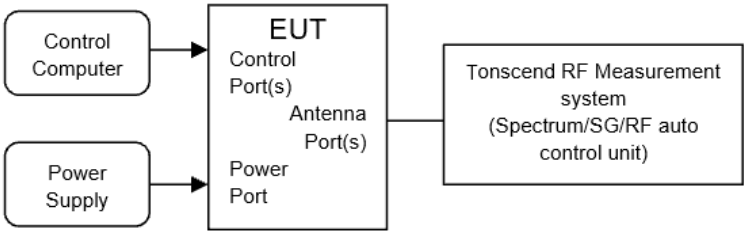






10. RF Conducted Spurious Emissions

10.1. Block diagram of test setup



10.2. 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.

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:

Center frequency

Test frequency

RBW:

100 kHz

VBW:

300 kHz

Span

Wide enough to capture the peak level of the in-band emission

Detector Mode:

Peak

Sweep time:

Auto

Trace mode

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

RBW:

100 kHz

VBW:

300 kHz

Span

Encompass frequency range to be measured

Number of measurement points

≥Span/RBW

Detector Mode:

Peak

Sweep time:

Auto

Trace mode

Max hold

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

10.4. Test result

|                    |               |                |                          |
|--------------------|---------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen  | Test Site:     | RF Measurement system 2# |
| Ambient Condition: | 25.4℃,36.3%RH | Test Date:     | 2025.12.17-2025.12.17    |
| Test Power         | DC 5V         | Sample Number: | S25121219-002            |

|         |  |  |  |
|---------|--|--|--|
| Supply: |  |  |  |
|---------|--|--|--|

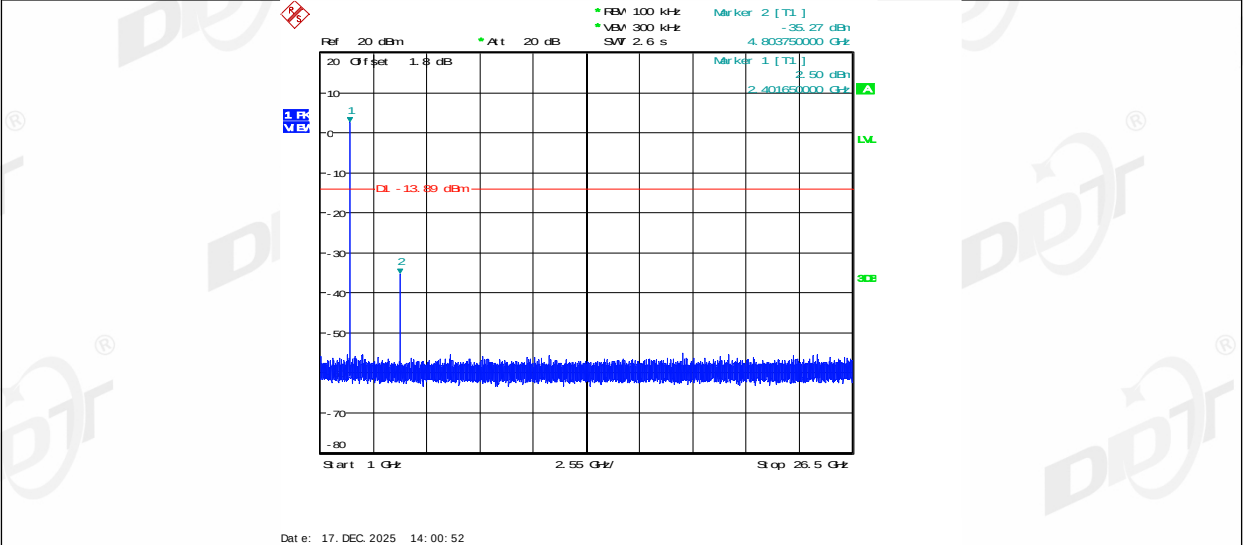
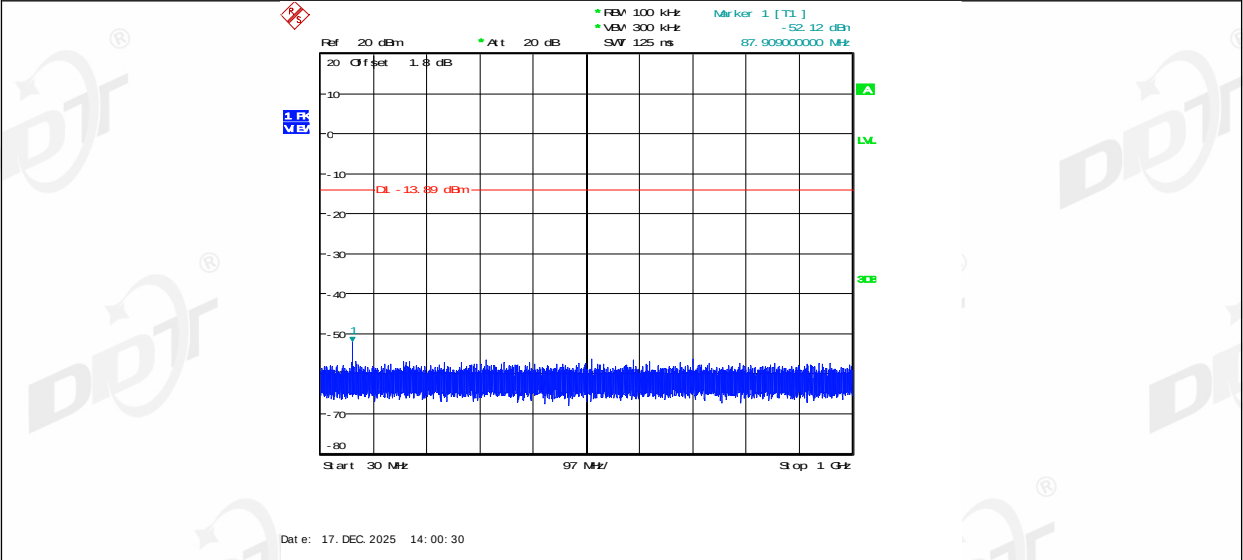
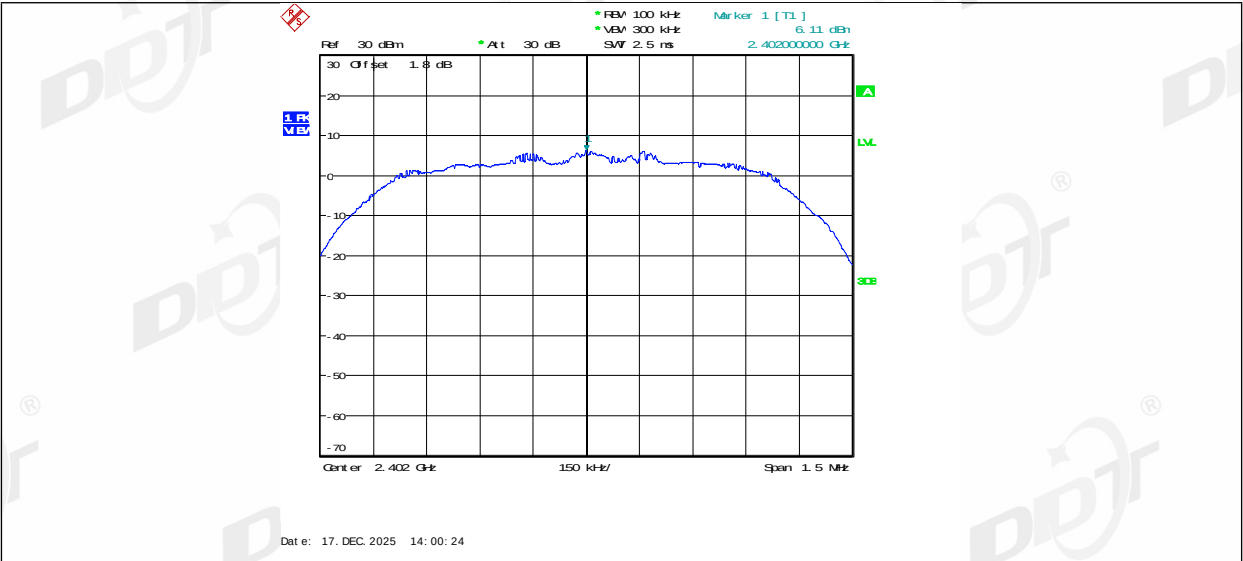
| Mode           | Freq. (MHz)      | Verdict |
|----------------|------------------|---------|
| GFSK           | Hopping off 2402 | Pass    |
|                | Hopping off 2441 | Pass    |
|                | Hopping off 2480 | Pass    |
| $\pi/4$ -DQPSK | Hopping off 2402 | Pass    |
|           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

10.5. Test graphs











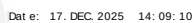




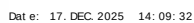




3DH5 Ant1 2480 30~1000

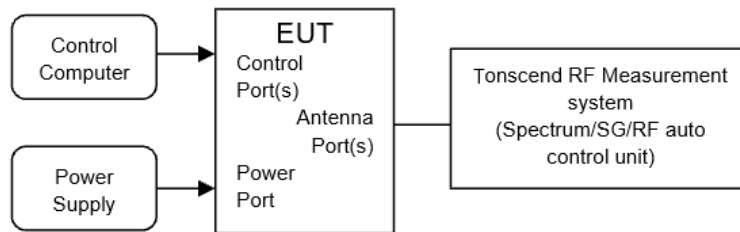


3DH5 Ant1 2480 1000~26500



## 11. Duty cycle

### 11.1. Block diagram of test setup



### 11.2. Limit

Just for Report.

### 11.3. 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:  
$$\text{Duty cycle} = \text{Pulse's on time} / \text{Burst cycle}$$

11.4. Test result

|                    |               |                |                          |
|--------------------|---------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen  | Test Site:     | RF Measurement system 2# |
| Ambient Condition: | 25.4℃,36.3%RH | Test Date:     | 2025.12.17-2025.12.17    |
| Test Power Supply: | DC 5V         | Sample Number: | S25121219-002            |

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| DH5       | 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                  |
| 2DH5      | Ant1    | 2402            | 2.91         | 3.76        | 77.39          | 1.11                  |
|           |         | 2441            | 2.91         | 3.76        | 77.39          | 1.11                  |
|           |         | 2480            | 2.90         | 3.76        | 77.13          | 1.13                  |
| 3DH5      | Ant1    | 2402            | 2.90         | 3.77        | 76.92          | 1.14                  |
|           |         | 2441            | 2.90         | 3.77        | 76.92          | 1.14                  |
|           |         | 2480            | 2.90         | 3.75        | 77.33          | 1.12                  |

Figure 1: Screenshot of a Vector Network Analyzer (VNA) measurement for antenna DH5\_Ant1\_2402. The plot shows the S<sub>11</sub> parameter in dB versus frequency in GHz. The center frequency is 2.402 GHz, and the span is 700 MHz. The plot shows a resonance dip at approximately 2.402 GHz. The measurement parameters are: RBW 10 MHz, VBW 10 MHz, SMV 7 ns, and Delta 2 [T1] -19.47 dB. The plot also shows a TFC level at -19.47 dB and a TFC level at -19.47 dB.

Figure 2: Screenshot of a Vector Network Analyzer (VNA) measurement for antenna DH5\_Ant1\_2441. The plot shows the S<sub>11</sub> parameter in dB versus frequency in GHz. The center frequency is 2.441 GHz, and the span is 700 MHz. The plot shows a resonance dip at approximately 2.441 GHz. The measurement parameters are: RBW 10 MHz, VBW 10 MHz, SMV 7 ns, and Delta 2 [T1] -0.98 dB. The plot also shows a TFC level at -0.98 dB and a TFC level at -0.98 dB.

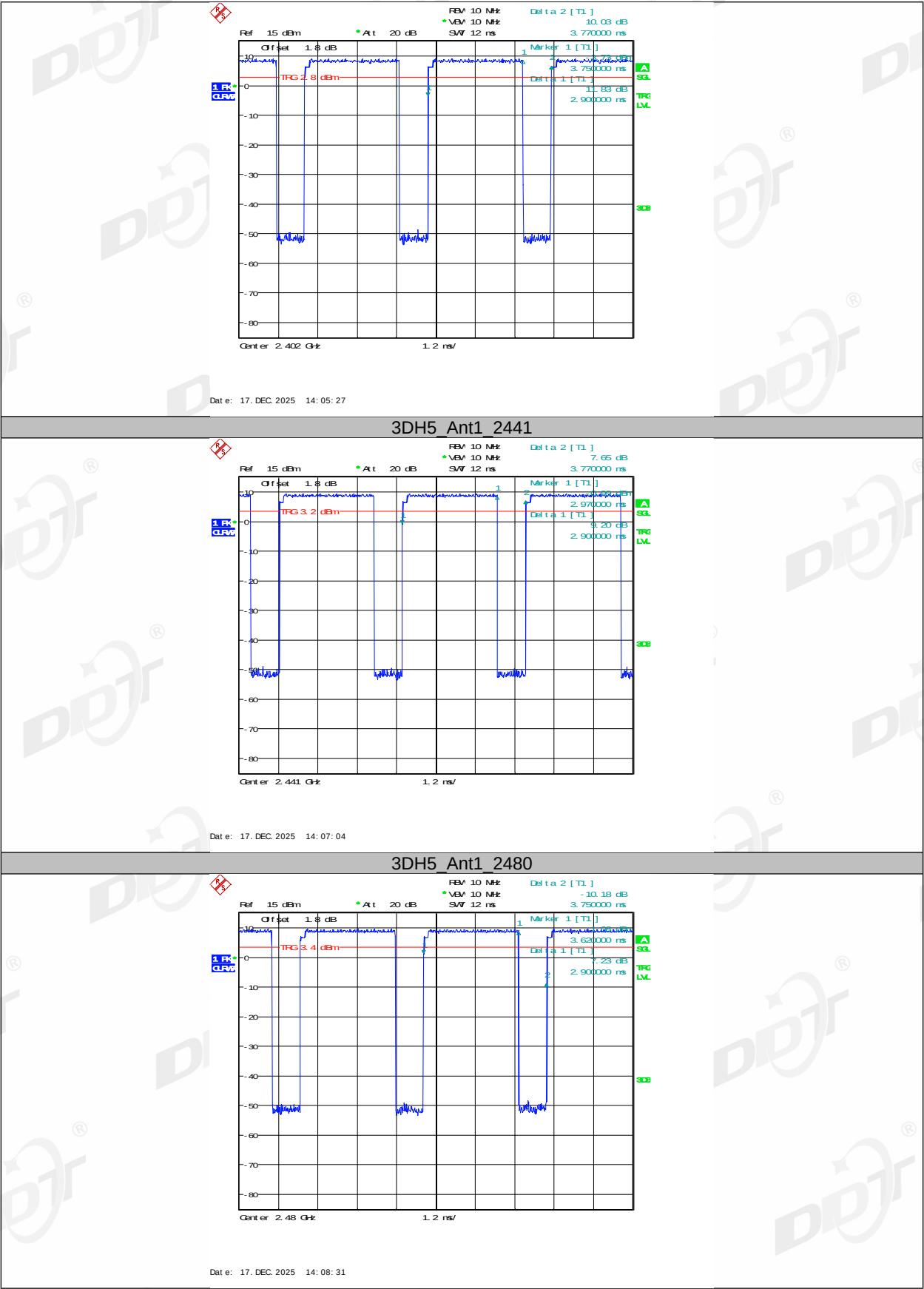
Figure 3: Screenshot of a Vector Network Analyzer (VNA) measurement for antenna DH5\_Ant1\_2480. The plot shows the S<sub>11</sub> parameter in dB versus frequency in GHz. The center frequency is 2.48 GHz, and the span is 700 MHz. The plot shows a resonance dip at approximately 2.48 GHz. The measurement parameters are: RBW 10 MHz, VBW 10 MHz, SMV 7 ns, and Delta 2 [T1] -0.80 dB. The plot also shows a TFC level at -0.80 dB and a TFC level at -0.80 dB.



Date: 17. DEC. 2025 14:01:35

Dat e: 17. DEC. 2025 14: 03: 04

3DH5 Ant1 2402



3DH5\_Ant1\_2480

2.48

Ref 15 dBm

Offset 1.8 dB

AT 20 dB

FBW 10 MHz

VBA 10 MHz

SWF 12 ns

Delta 2 [T1]

-10.18 dB

3.750000 ns

1. FR

CLW

TRF 3.4 dBm

Marker 1 [T1]

3.630000 ns

Delta 1 [T1]

11.23 dB

2.900000 ns

10

-10

-20

-30

-40

-50

-60

-70

-80

Center 2.48 GHz

1.2 ns/

1A

SQL

TRF

LVL

3dB

Date: 17. DEC. 2025

14:08:31

## 12. Antenna Requirements

### 12.1. 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.

### 12.2. Result

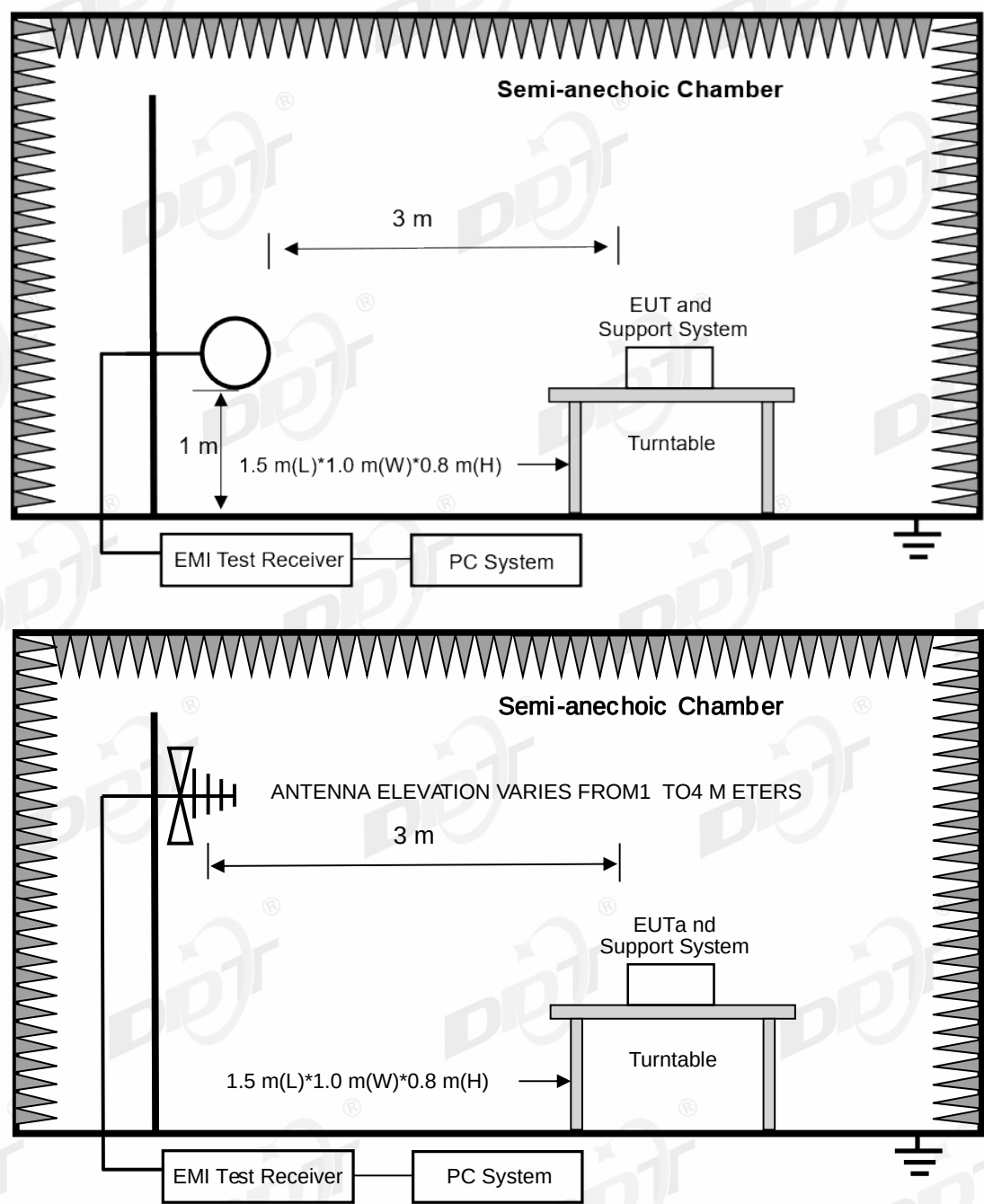
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

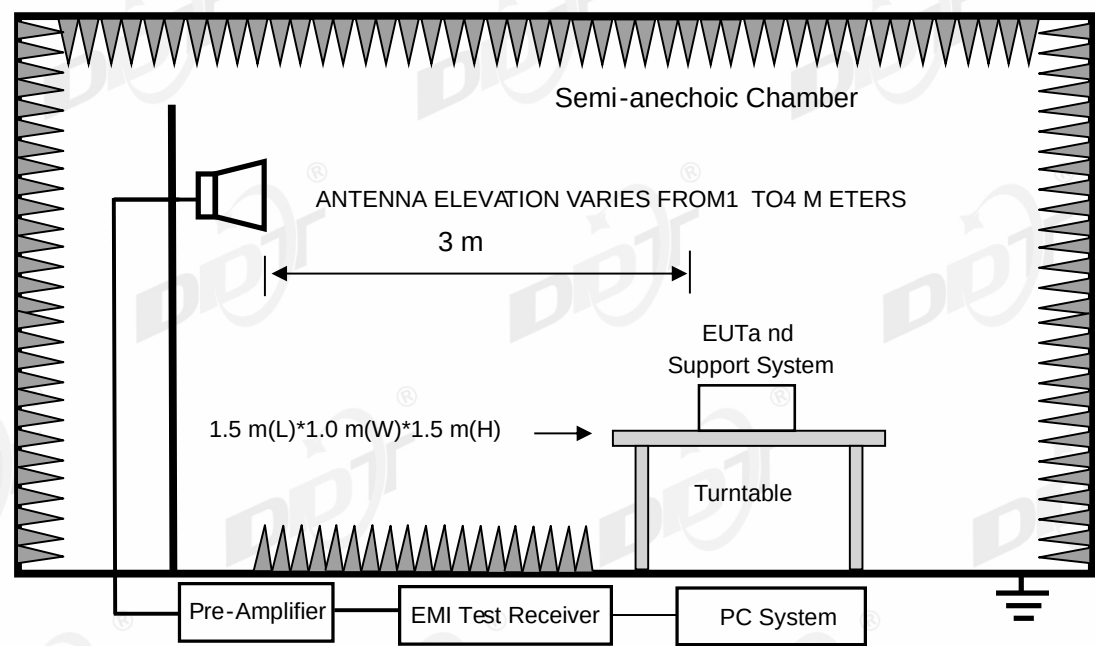
### 13. Radiated Emission

#### 13.1. Test equipment

| Equipment                                           | Manufacturer      | Model No.          | Serial No.  | Cal Due To |
|-----------------------------------------------------|-------------------|--------------------|-------------|------------|
| High pass filter                                    | Micro-Tronics     | HPM50102           | DDT-ZC00561 | 2026/03/28 |
| Radiation disturbance fully automated test software | Tonscend          | JS32-RE            | DDT-ZC02739 | /          |
| Pre-amplifier                                       | SONOMA            | 310N               | DDT-ZC01969 | 2026/07/06 |
| RF Cable                                            | N/A               | W24.02 HL-562      | DDT-ZC04022 | 2026/03/28 |
| RF cable                                            | Yuhu Technology   | JCTB810-NJ-NJ-9M   | DDT-ZC02538 | 2026/03/28 |
| RF cable                                            | Zhongke Junchuang | JCT26S-NJ-NJ-1.5M  | DDT-ZC02762 | /          |
| RF cable                                            | Yuhu Technology   | ZT26S-SMAJ-SMAJ-1M | DDT-ZC02037 | 2026/10/10 |
| RF Cable                                            | N/A               | W13.02 AP1-X2      | DDT-ZC04023 | 2026/03/28 |
| Pre-amplifier                                       | COM-POWER         | PAM-840A           | DDT-ZC01693 | 2026/03/28 |
| Pre-amplifier                                       | COM-POWER         | PAM-118A           | DDT-ZC01293 | 2026/08/10 |
| EMI TEST RECEIVER                                   | R&S               | ESU26              | DDT-ZC01909 | 2026/03/28 |
| Micro-Tronics filters                               | REBES             | BRM50702           | DDT-ZC03242 | /          |
| High pass filter                                    | Micro-Tronics     | HPM50108           | DDT-ZC00560 | 2026/03/28 |
| High Pass filter                                    | Xi'an Xingbo      | XBLBQ-GTA67        | DDT-ZC02179 | 2026/03/28 |
| Micro-Tronics filters                               | REBES             | BRM50716           | DDT-ZC03240 | /          |
| Broad-Band Horn Antenna                             | Schwarzbeck       | BBHA 9170          | DDT-ZC00506 | 2026/04/01 |
| Trilog Broadband Antenna                            | Schwarzbeck       | VULB 9163          | DDT-ZC02050 | 2026/07/25 |
| Hochgewinn-Hornantenne                              | SCHWARZBEC K      | BBHA 9120 D        | DDT-ZC02129 | 2026/08/11 |
| Active Loop Antenna                                 | Schwarzbeck       | FMZB1519           | DDT-ZC00524 | 2026/08/18 |
| PSA Series Spectrum Analyzer                        | Agilent           | E4447A             | DDT-ZC00517 | 2026/03/28 |

13.2. Block diagram of test setup





13.3. 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 &amp; 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:

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

(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.

### 13.4. Assistant equipment used for test

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

### 13.5. 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 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 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 clause 4.1.5.2.2 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.

### 13.6. Test result

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

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX DH5 Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

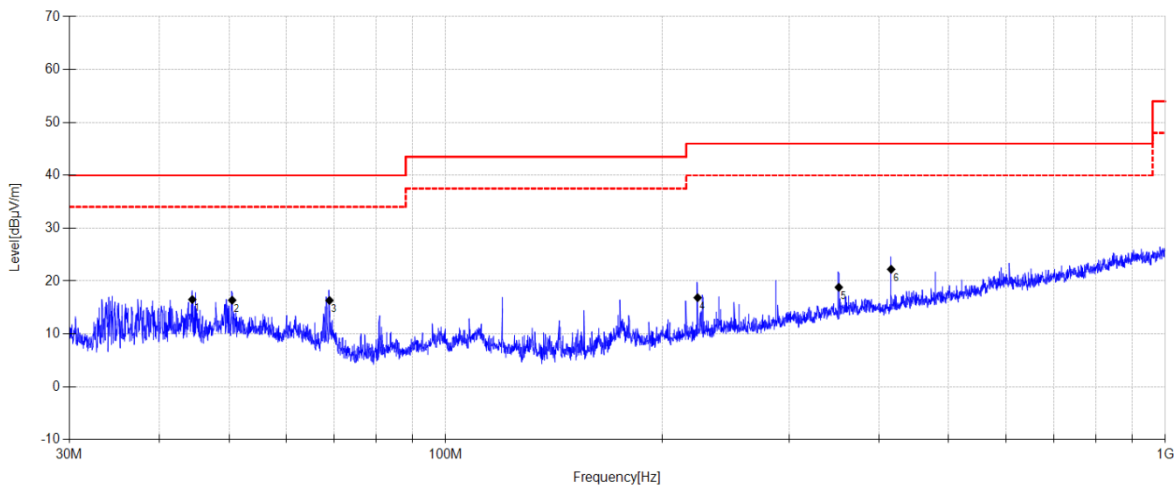
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC BELOW 1G\4

Memo:

Sample Number: S25121219-002



| Final 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               | 44.458      | 31.45            | 13.40               | 3.95            | 16.50           | 40.00          | 23.50       | QP       | Horizontal |
| 2               | 50.510      | 31.48            | 13.20               | 3.98            | 16.36           | 40.00          | 23.64       | QP       | Horizontal |
| 3               | 68.957      | 33.95            | 10.51               | 4.16            | 16.32           | 40.00          | 23.68       | QP       | Horizontal |
| 4               | 223.957     | 32.83            | 11.44               | 4.98            | 16.85           | 46.00          | 29.15       | QP       | Horizontal |
| 5               | 351.781     | 31.27            | 14.49               | 5.50            | 18.81           | 46.00          | 27.19       | QP       | Horizontal |
| 6               | 415.960     | 33.46            | 15.52               | 5.76            | 22.22           | 46.00          | 23.78       | QP       | Horizontal |

Note:

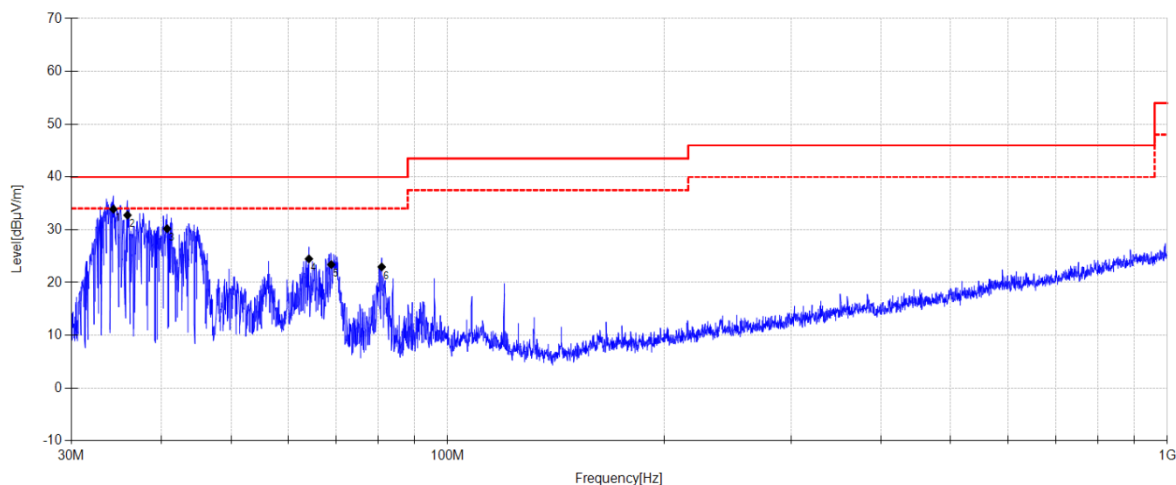
1. Result Level = Reading + Cable loss + Antenna Factor + AMP

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:** 2025-12-23      **Tested By:** Li Xiongbín  
**Test Mode:** TX DH5 Mode      **Power Supply:** DC 12V  
**Condition:** Temp:22.5°C;Humi:54.1%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2025 report date\Q25121219-5E\FCC BELOW 1G\5  
**Memo:** Sample Number: S25121219-002

**Final 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   | 34.323      | 51.06            | 11.30               | 3.84            | 33.90           | 40.00          | 6.10        | QP       | Vertical |
| 2   | 35.899      | 49.35            | 11.84               | 3.86            | 32.75           | 40.00          | 7.25        | QP       | Vertical |
| 3   | 40.756      | 46.02            | 12.55               | 3.92            | 30.19           | 40.00          | 9.81        | QP       | Vertical |
| 4   | 64.153      | 40.49            | 12.18               | 4.11            | 24.48           | 40.00          | 15.52       | QP       | Vertical |
| 5   | 68.909      | 41.02            | 10.52               | 4.16            | 23.40           | 40.00          | 16.60       | QP       | Vertical |
| 6   | 80.968      | 42.08            | 8.97                | 4.20            | 22.95           | 40.00          | 17.05       | 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:

2025-12-23

Tested By:

Cao Jie

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

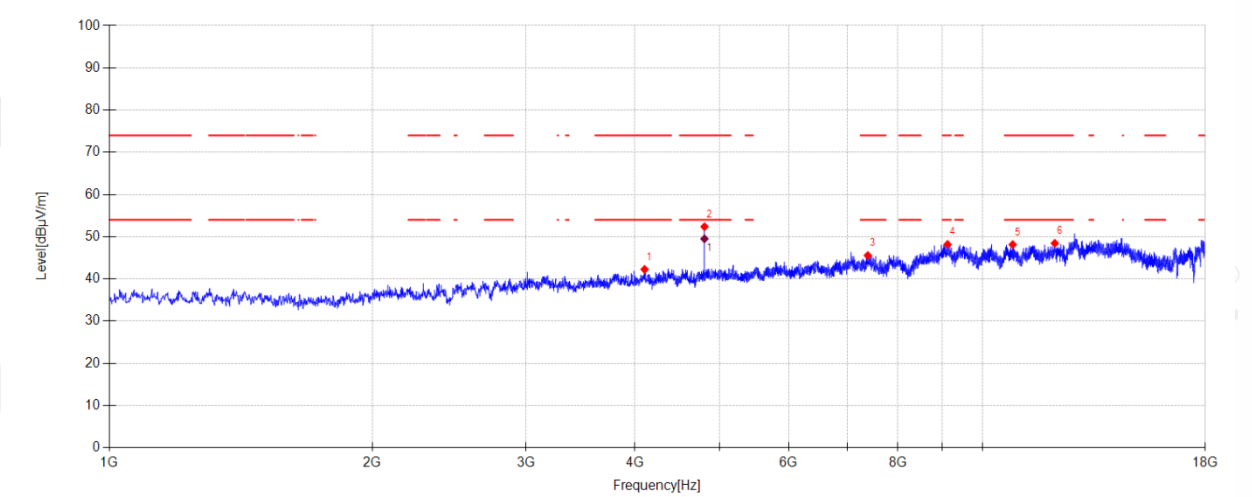
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\7

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 4102.500    | 46.21            | 31.12               | 4.64            | -39.71   | 42.26          | 74.00          | 31.74       | PK       | Horizontal |
| 2                   | 4804.600    | 54.87            | 32.17               | 5.12            | -39.78   | 52.38          | 74.00          | 21.62       | PK       | Horizontal |
| 3                   | 7390.300    | 42.89            | 36.76               | 5.76            | -39.86   | 45.55          | 74.00          | 28.45       | PK       | Horizontal |
| 4                   | 9120.900    | 41.70            | 38.42               | 6.78            | -38.73   | 48.17          | 74.00          | 25.83       | PK       | Horizontal |
| 5                   | 10829.400   | 41.30            | 39.18               | 7.28            | -39.62   | 48.14          | 74.00          | 25.86       | PK       | Horizontal |
| 6                   | 12102.700   | 40.66            | 39.49               | 7.81            | -39.52   | 48.44          | 74.00          | 25.56       | PK       | Horizontal |

| Final 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               | 4804.040    | 51.99            | 32.17               | 5.12            | 49.50          | 54.00          | 4.50        | AV       | Horizontal |  |

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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

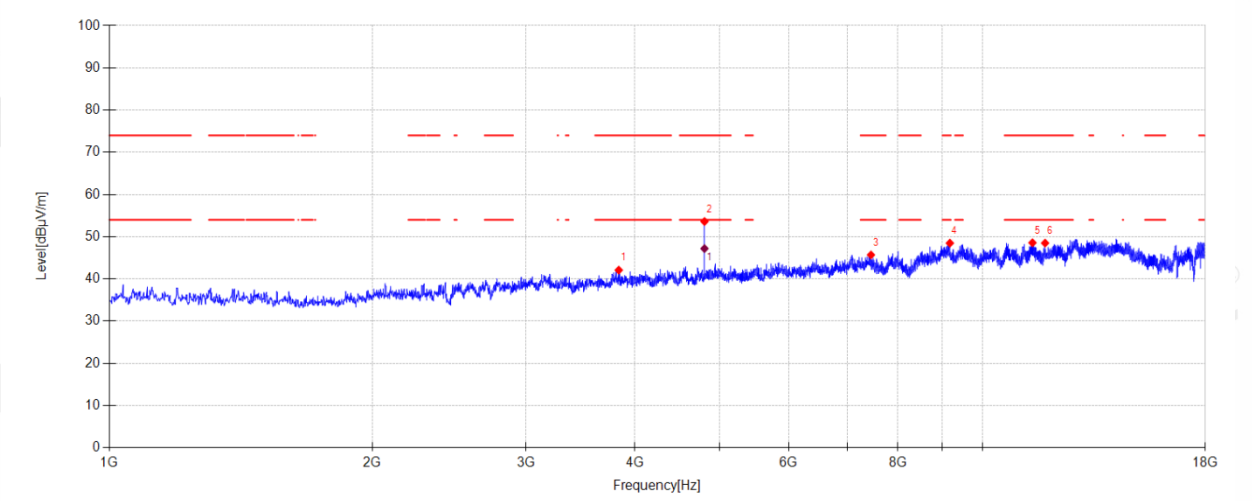
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\8

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 3832.200    | 46.66            | 30.51               | 4.55            | -39.63   | 42.09          | 74.00          | 31.91       | PK       | Vertical |
| 2                   | 4804.600    | 56.09            | 32.17               | 5.12            | -39.78   | 53.60          | 74.00          | 20.40       | PK       | Vertical |
| 3                   | 7453.200    | 43.14            | 36.62               | 5.78            | -39.85   | 45.69          | 74.00          | 28.31       | PK       | Vertical |
| 4                   | 9177.000    | 41.81            | 38.68               | 6.78            | -38.79   | 48.48          | 74.00          | 25.52       | PK       | Vertical |
| 5                   | 11410.800   | 40.91            | 39.69               | 7.57            | -39.60   | 48.57          | 74.00          | 25.43       | PK       | Vertical |
| 6                   | 11796.700   | 41.76            | 38.60               | 7.73            | -39.60   | 48.49          | 74.00          | 25.51       | PK       | Vertical |

| Final 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               | 4804.030    | 49.68            | 32.17               | 5.12            | 47.19          | 54.00          | 6.81        | AV       | 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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX DH5 2441MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

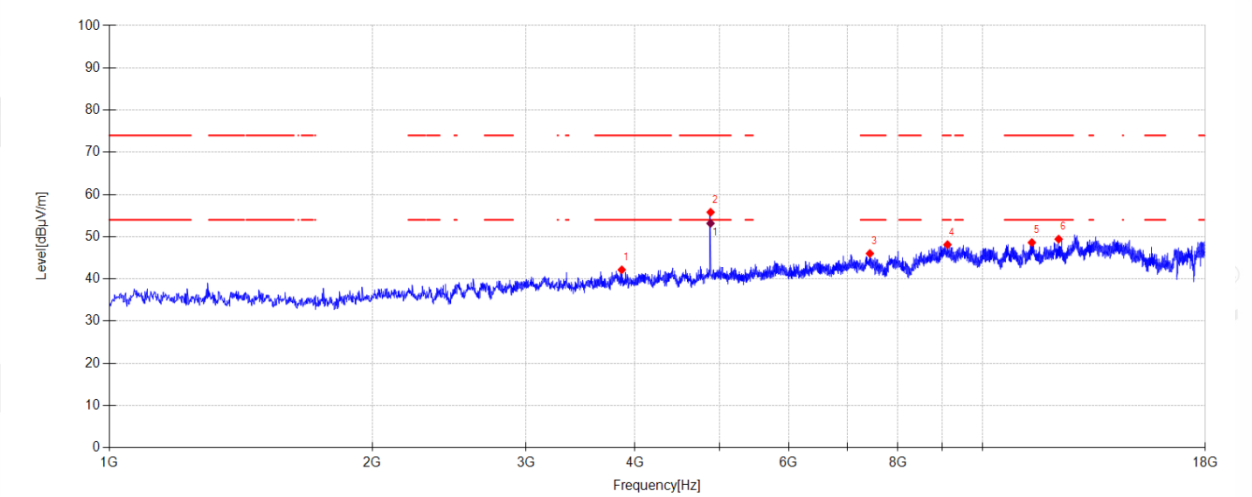
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\9

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 3862.800    | 46.81            | 30.45               | 4.55            | -39.65   | 42.16          | 74.00          | 31.84       | PK       | Horizontal |
| 2                   | 4882.800    | 57.39            | 33.03               | 5.17            | -39.79   | 55.80          | 74.00          | 18.20       | PK       | Horizontal |
| 3                   | 7431.100    | 43.47            | 36.64               | 5.77            | -39.86   | 46.02          | 74.00          | 27.98       | PK       | Horizontal |
| 4                   | 9119.200    | 41.69            | 38.38               | 6.78            | -38.73   | 48.12          | 74.00          | 25.88       | PK       | Horizontal |
| 5                   | 11392.100   | 40.94            | 39.71               | 7.57            | -39.60   | 48.62          | 74.00          | 25.38       | PK       | Horizontal |
| 6                   | 12225.100   | 41.79            | 39.25               | 7.81            | -39.42   | 49.43          | 74.00          | 24.57       | PK       | Horizontal |

| Final 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               | 4882.065    | 54.75            | 33.03               | 5.17            | 53.16          | 54.00          | 0.84        | AV       | Horizontal |  |

Note:

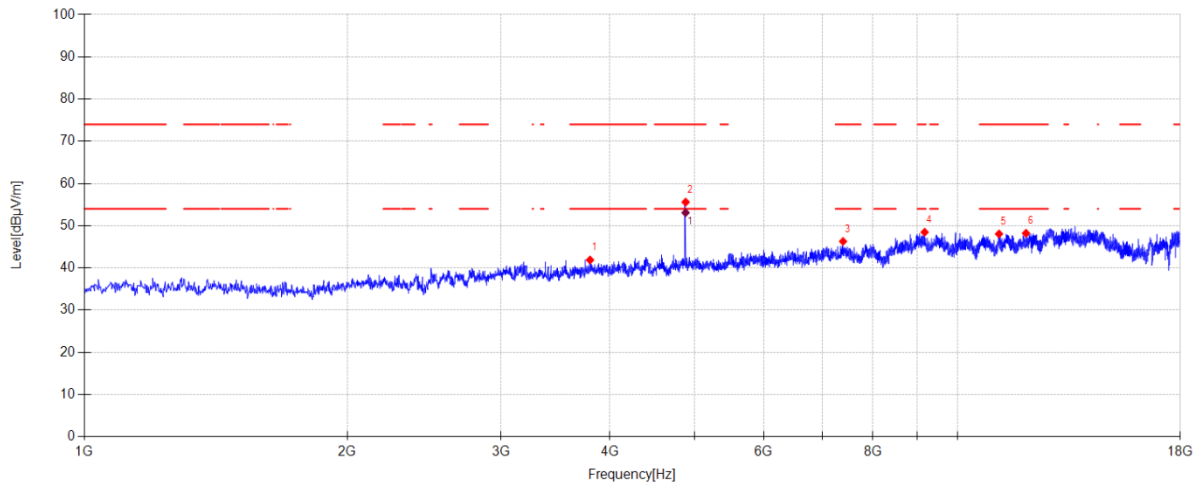
1. Level = Reading + Cable loss + Antenna Factor + AMP

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:** 2025-12-23 **Tested By:** Li Xiongbin  
**Test Mode:** TX DH5 2441MHz Mode **Power Supply:** DC 12V  
**Condition:** Temp:22.5°C;Humi:54.1% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\10  
**Memo:** Sample Number: S25121219-002 Power Setting: NA

**Suspected 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  | 3794.800    | 46.17            | 30.79               | 4.54            | -39.62   | 41.88          | 74.00          | 32.12       | PK       | Vertical |
| 2  | 4882.800    | 57.19            | 33.03               | 5.17            | -39.79   | 55.60          | 74.00          | 18.40       | PK       | Vertical |
| 3  | 7395.400    | 43.66            | 36.73               | 5.76            | -39.86   | 46.29          | 74.00          | 27.71       | PK       | Vertical |
| 4  | 9171.900    | 41.74            | 38.74               | 6.78            | -38.79   | 48.47          | 74.00          | 25.53       | PK       | Vertical |
| 5  | 11159.200   | 41.35            | 38.84               | 7.47            | -39.60   | 48.06          | 74.00          | 25.94       | PK       | Vertical |
| 6  | 11982.000   | 41.10            | 38.91               | 7.80            | -39.60   | 48.21          | 74.00          | 25.79       | PK       | Vertical |

**Final 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  | 4882.045    | 54.67            | 33.03               | 5.17            | 53.08          | 54.00          | 0.92        | 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:

2025-12-23

Tested By:

Li Xiongbin

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

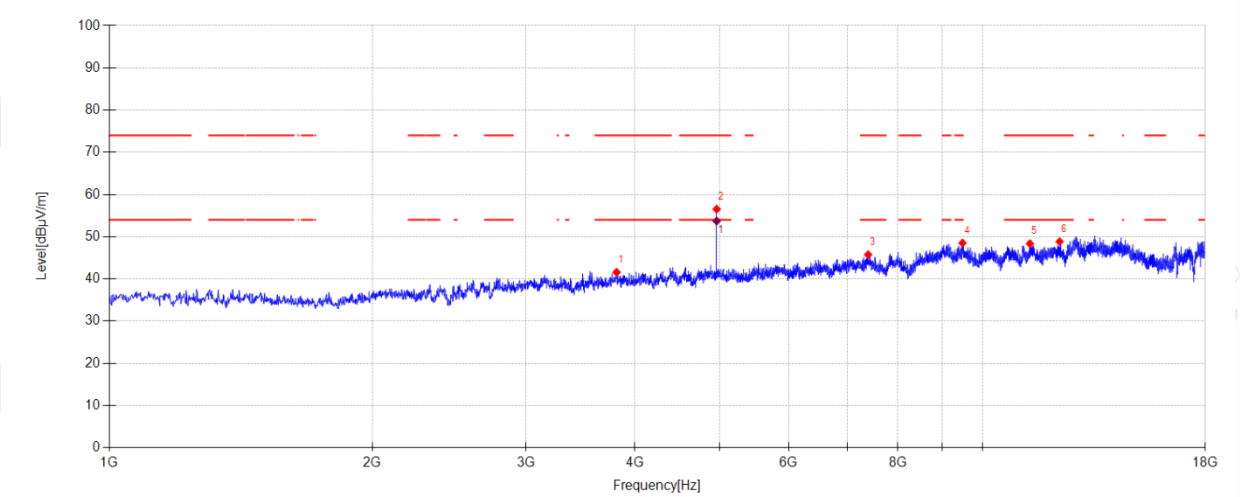
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\11

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 3810.100    | 45.87            | 30.78               | 4.55            | -39.62   | 41.58          | 74.00          | 32.42       | PK       | Horizontal |
| 2                   | 4961.000    | 58.02            | 33.08               | 5.22            | -39.80   | 56.52          | 74.00          | 17.48       | PK       | Horizontal |
| 3                   | 7397.100    | 43.14            | 36.72               | 5.76            | -39.86   | 45.76          | 74.00          | 28.24       | PK       | Horizontal |
| 4                   | 9488.100    | 42.18            | 38.73               | 6.74            | -39.14   | 48.51          | 74.00          | 25.49       | PK       | Horizontal |
| 5                   | 11334.300   | 41.42            | 39.01               | 7.54            | -39.60   | 48.37          | 74.00          | 25.63       | PK       | Horizontal |
| 6                   | 12257.400   | 41.12            | 39.31               | 7.81            | -39.39   | 48.85          | 74.00          | 25.15       | PK       | Horizontal |

| Final 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               | 4960.065    | 55.22            | 33.08               | 5.22            | 53.72          | 54.00          | 0.28        | AV       | Horizontal |  |

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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

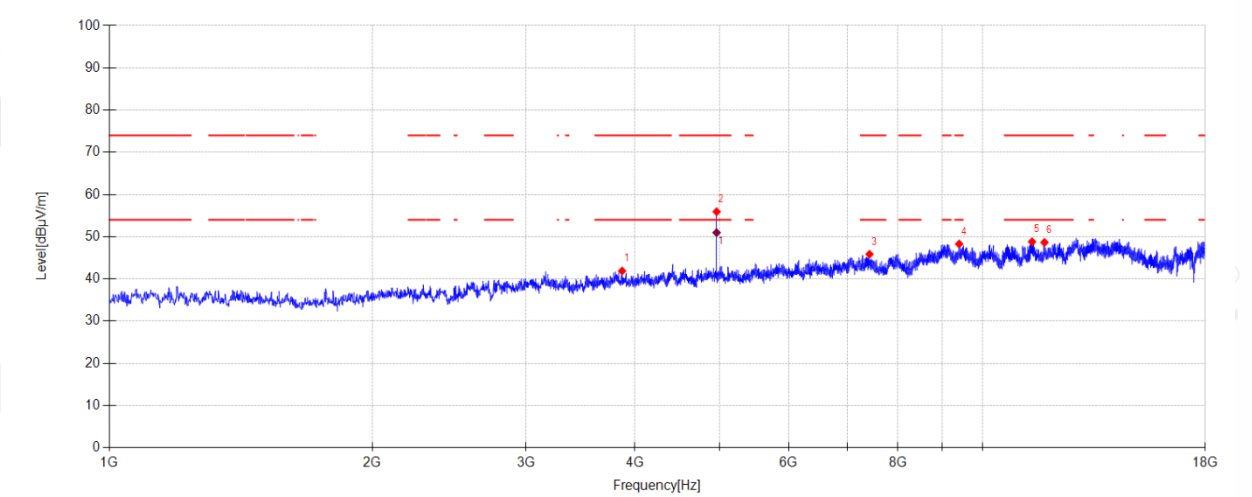
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\12

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 3866.200    | 46.49            | 30.49               | 4.55            | -39.65   | 41.88          | 74.00          | 32.12       | PK       | Vertical |
| 2                   | 4961.000    | 57.43            | 33.08               | 5.22            | -39.80   | 55.93          | 74.00          | 18.07       | PK       | Vertical |
| 3                   | 7424.300    | 43.29            | 36.65               | 5.77            | -39.86   | 45.85          | 74.00          | 28.15       | PK       | Vertical |
| 4                   | 9403.100    | 41.90            | 38.67               | 6.75            | -39.04   | 48.28          | 74.00          | 25.72       | PK       | Vertical |
| 5                   | 11398.900   | 41.04            | 39.79               | 7.57            | -39.60   | 48.80          | 74.00          | 25.20       | PK       | Vertical |
| 6                   | 11778.000   | 41.96            | 38.58               | 7.72            | -39.60   | 48.66          | 74.00          | 25.34       | PK       | Vertical |

| Final 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               | 4960.035    | 52.47            | 33.08               | 5.22            | 50.97          | 54.00          | 3.03        | AV       | Vertical |  |

Note:

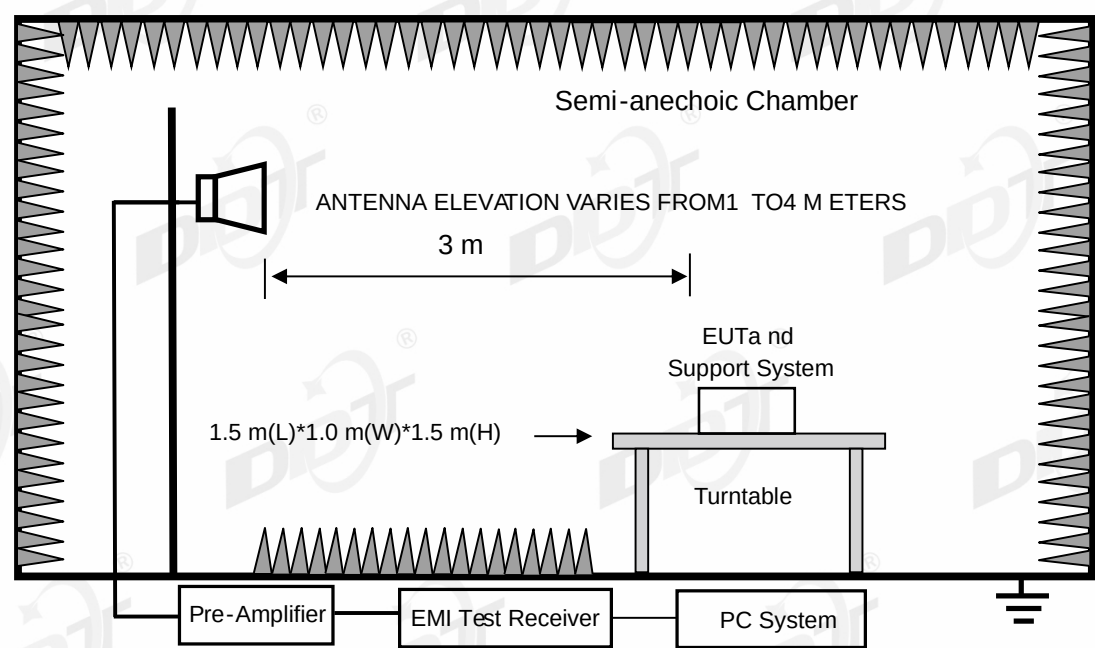
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## 14. Band Edge Compliance

### 14.1. Test equipment

| Equipment                                           | Manufacturer      | Model No.          | Serial No.  | Cal Due To |
|-----------------------------------------------------|-------------------|--------------------|-------------|------------|
| High pass filter                                    | Micro-Tronics     | HPM50102           | DDT-ZC00561 | 2026/03/28 |
| Radiation disturbance fully automated test software | Tonscend          | JS32-RE            | DDT-ZC02739 | /          |
| Pre-amplifier                                       | SONOMA            | 310N               | DDT-ZC01969 | 2026/07/06 |
| RF Cable                                            | N/A               | W24.02 HL-562      | DDT-ZC04022 | 2026/03/28 |
| RF cable                                            | Yuhu Technology   | JCTB810-NJ-NJ-9M   | DDT-ZC02538 | 2026/03/28 |
| RF cable                                            | Zhongke Junchuang | JCT26S-NJ-NJ-1.5M  | DDT-ZC02762 | /          |
| RF cable                                            | Yuhu Technology   | ZT26S-SMAJ-SMAJ-1M | DDT-ZC02037 | 2026/10/10 |
| RF Cable                                            | N/A               | W13.02 AP1-X2      | DDT-ZC04023 | 2026/03/28 |
| Pre-amplifier                                       | COM-POWER         | PAM-840A           | DDT-ZC01693 | 2026/03/28 |
| Pre-amplifier                                       | COM-POWER         | PAM-118A           | DDT-ZC01293 | 2026/08/10 |
| EMI TEST RECEIVER                                   | R&S               | ESU26              | DDT-ZC01909 | 2026/03/28 |
| Micro-Tronics filters                               | REBES             | BRM50702           | DDT-ZC03242 | /          |
| High pass filter                                    | Micro-Tronics     | HPM50108           | DDT-ZC00560 | 2026/03/28 |
| High Pass filter                                    | Xi'an Xingbo      | XBLBQ-GTA67        | DDT-ZC02179 | 2026/03/28 |
| Micro-Tronics filters                               | REBES             | BRM50716           | DDT-ZC03240 | /          |
| Broad-Band Horn Antenna                             | Schwarzbeck       | BBHA 9170          | DDT-ZC00506 | 2026/04/01 |
| Trilog Broadband Antenna                            | Schwarzbeck       | VULB 9163          | DDT-ZC02050 | 2026/07/25 |
| Hochgewinn-Hornantenne                              | SCHWARZBEC K      | BBHA 9120 D        | DDT-ZC02129 | 2026/08/11 |
| Active Loop Antenna                                 | Schwarzbeck       | FMZB1519           | DDT-ZC00524 | 2026/08/18 |
| PSA Series Spectrum Analyzer                        | Agilent           | E4447A             | DDT-ZC00517 | 2026/03/28 |

14.2. Block diagram of test setup



14.3. 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.

14.4. Assistant equipment used for test

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

14.5. 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.

14.6. Test result

PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-23

Tested By:

Li Xiongbin

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

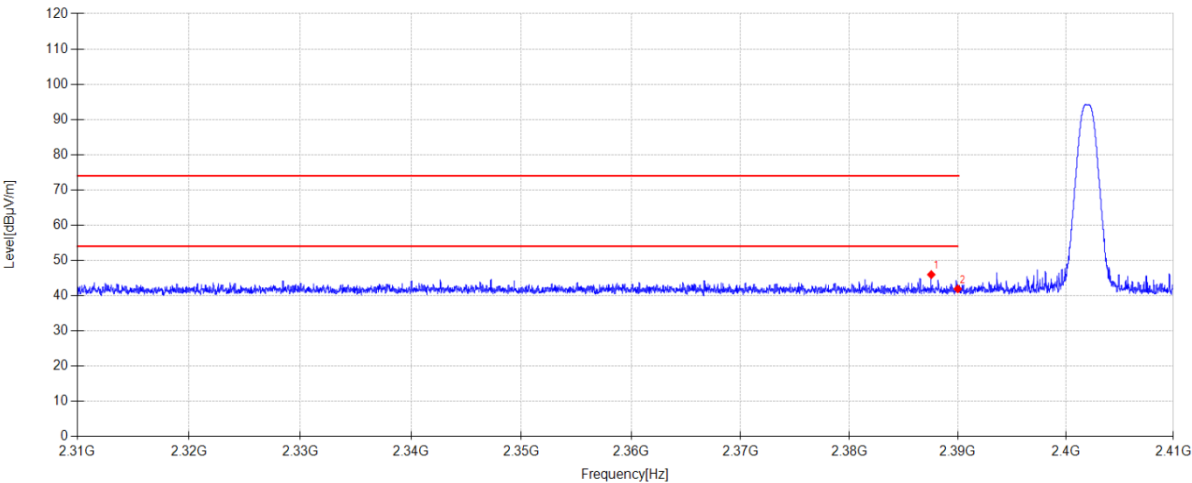
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\17

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 2387.550    | 14.73            | 27.47               | 3.77            | 0.00     | 45.97          | 74.00          | 28.03       | PK       | Horizontal |
| 2                   | 2390.000    | 10.66            | 27.46               | 3.78            | 0.00     | 41.90          | 74.00          | 32.10       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX DH5 2402MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

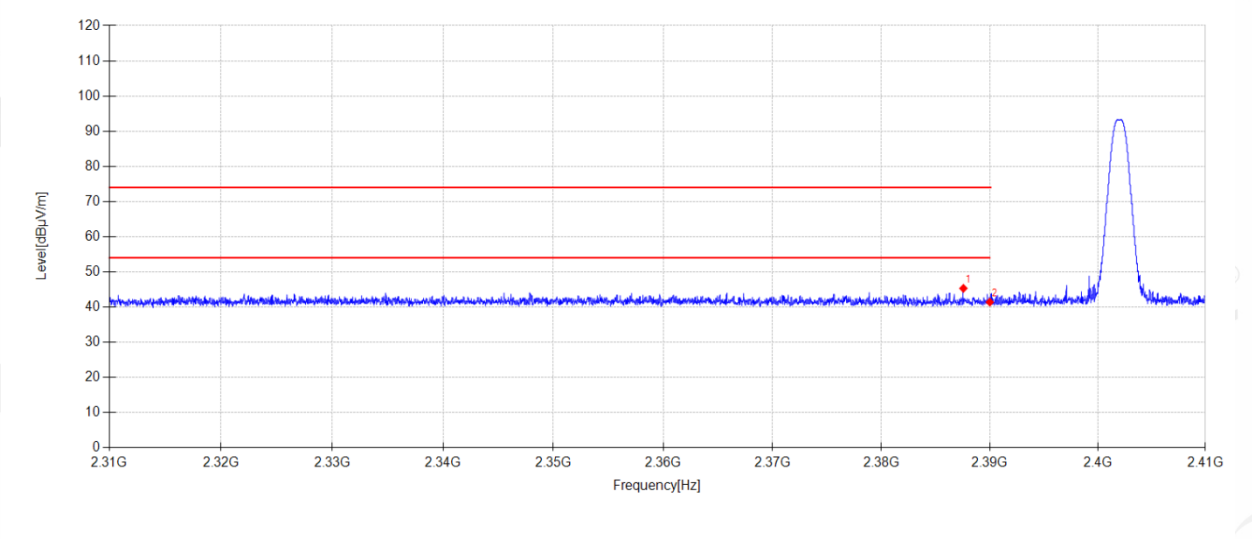
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\18

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 2387.560    | 14.08            | 27.47               | 3.77            | 0.00     | 45.32          | 74.00          | 28.68       | PK       | Vertical |
| 2                   | 2390.000    | 10.17            | 27.46               | 3.78            | 0.00     | 41.41          | 74.00          | 32.59       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX 2DH5 2402MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

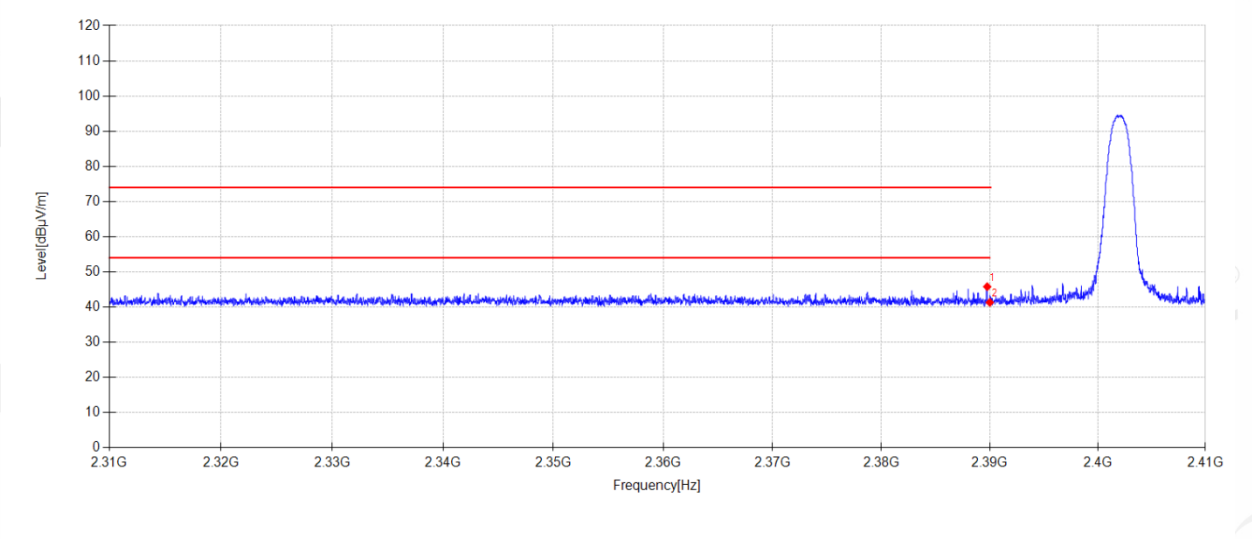
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\19

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 2389.760    | 14.56            | 27.46               | 3.77            | 0.00     | 45.79          | 74.00          | 28.21       | PK       | Horizontal |
| 2                   | 2390.000    | 10.09            | 27.46               | 3.78            | 0.00     | 41.33          | 74.00          | 32.67       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX 2DH5 2402MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

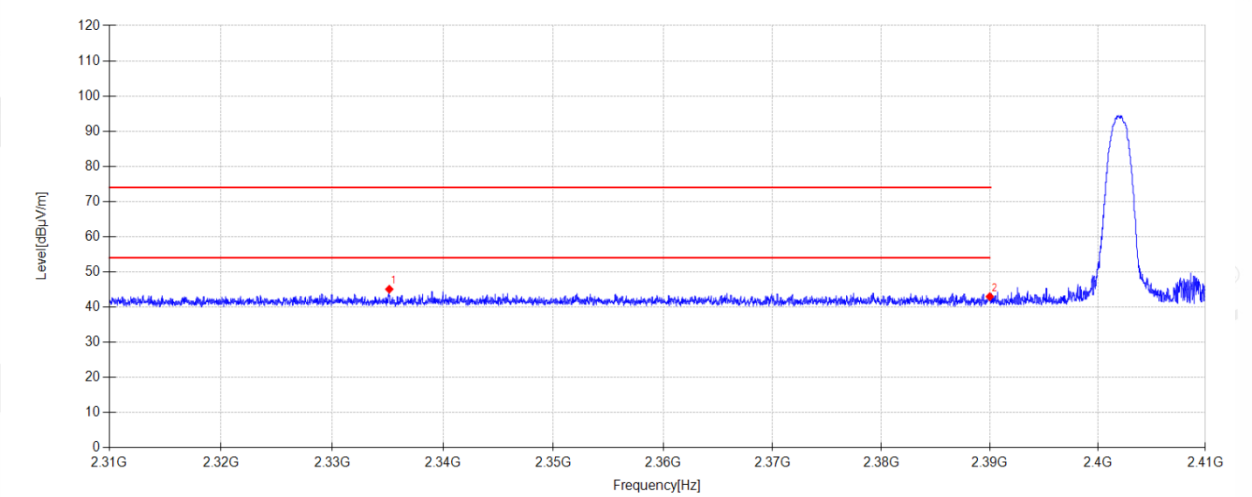
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\20

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 2335.140    | 13.72            | 27.64               | 3.72            | 0.00     | 45.08          | 74.00          | 28.92       | PK       | Vertical |
| 2                   | 2390.000    | 11.73            | 27.46               | 3.78            | 0.00     | 42.97          | 74.00          | 31.03       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX 3DH5 2402MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

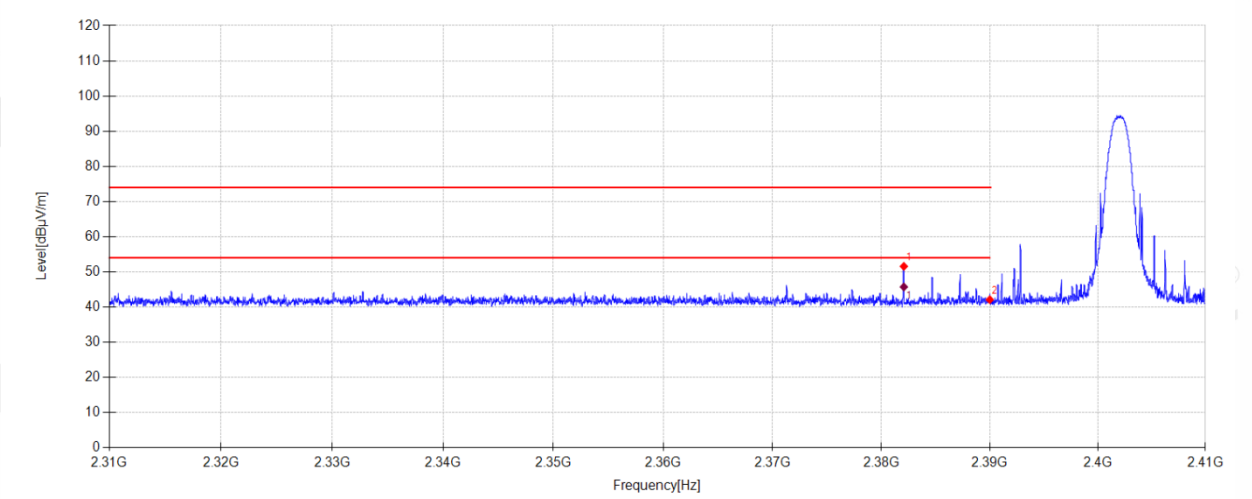
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\21

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 2382.070    | 20.29            | 27.51               | 3.77            | 0.00     | 51.57          | 74.00          | 22.43       | PK       | Horizontal |
| 2                   | 2390.000    | 10.86            | 27.46               | 3.78            | 0.00     | 42.10          | 74.00          | 31.90       | PK       | Horizontal |

| Final 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               | 2382.070    | 14.45            | 27.51               | 3.77            | 45.73          | 54.00          | 8.27        | AV       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX 3DH5 2402MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

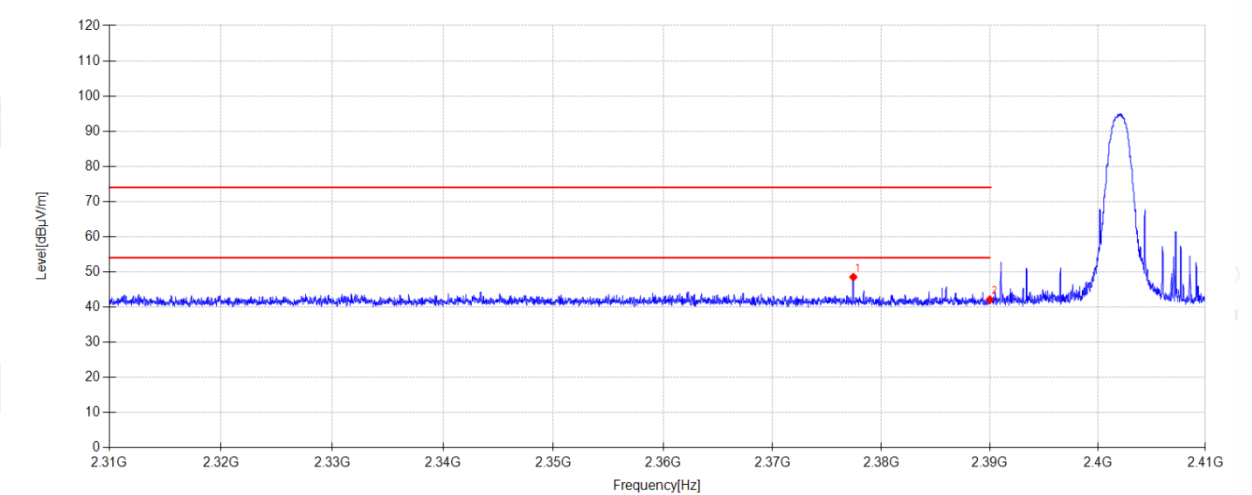
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\22

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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                   | 2377.420    | 17.22            | 27.54               | 3.76            | 0.00     | 48.52          | 74.00          | 25.48       | PK       | Vertical |
| 2                   | 2390.000    | 10.89            | 27.46               | 3.78            | 0.00     | 42.13          | 74.00          | 31.87       | 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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX 3DH5 2480MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

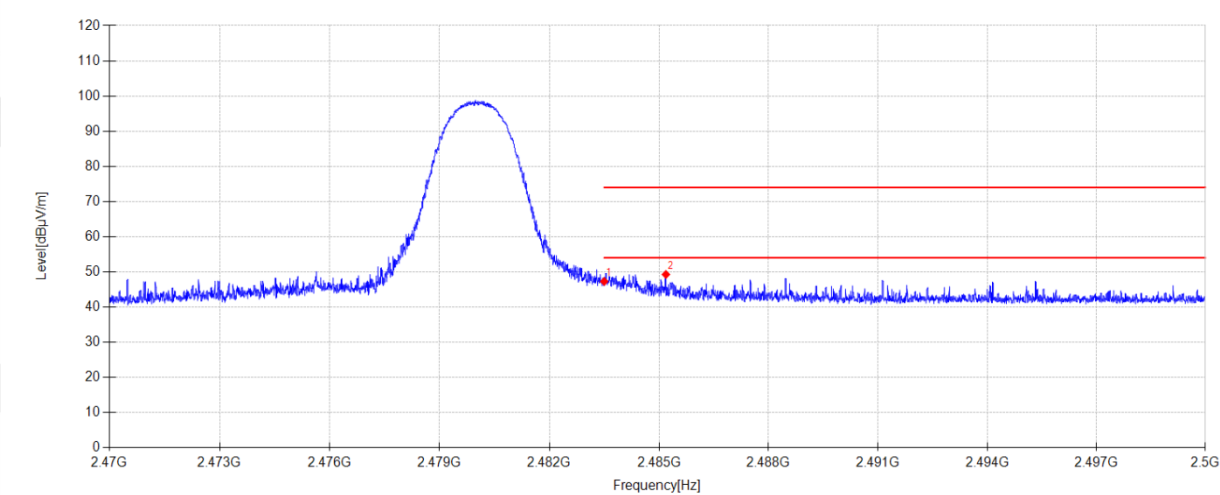
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\23

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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    | 15.87            | 27.54               | 3.88            | 0.00     | 47.29          | 74.00          | 26.71       | PK       | Horizontal |
| 2                   | 2485.189    | 17.85            | 27.55               | 3.88            | 0.00     | 49.28          | 74.00          | 24.72       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX 3DH5 2480MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

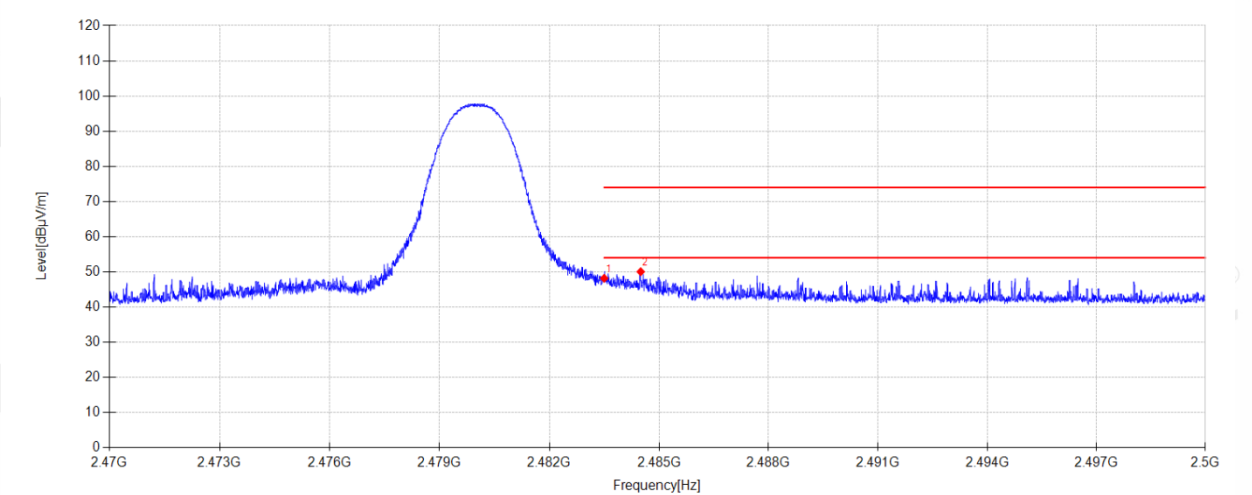
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\24

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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    | 16.75            | 27.54               | 3.88            | 0.00     | 48.17          | 74.00          | 25.83       | PK       | Vertical |
| 2                   | 2484.499    | 18.63            | 27.54               | 3.88            | 0.00     | 50.05          | 74.00          | 23.95       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX 2DH5 2480MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

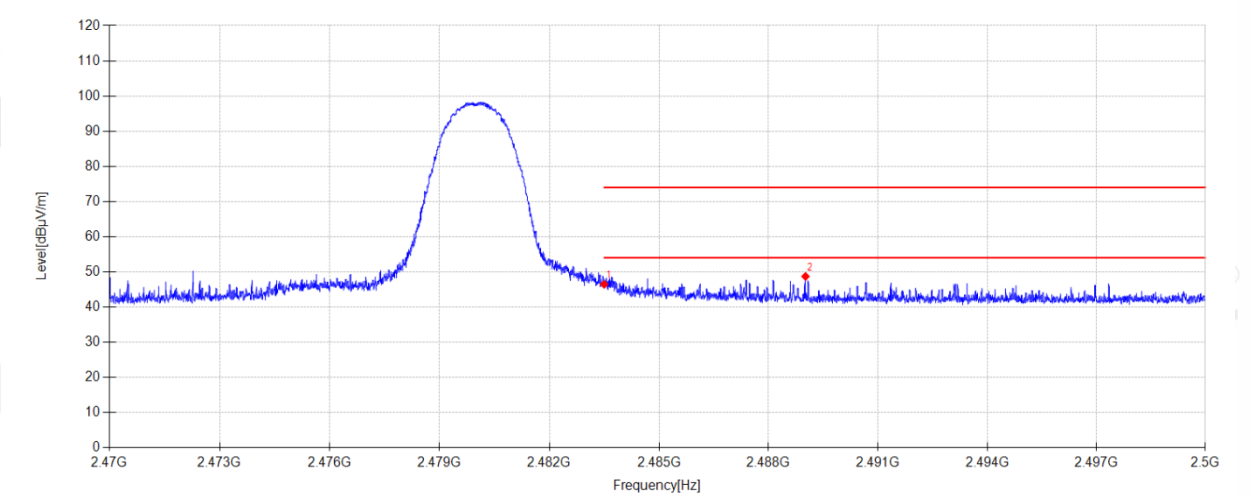
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\25

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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    | 15.05            | 27.54               | 3.88            | 0.00     | 46.47          | 74.00          | 27.53       | PK       | Horizontal |
| 2                   | 2489.014    | 17.24            | 27.59               | 3.88            | 0.00     | 48.71          | 74.00          | 25.29       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX 2DH5 2480MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

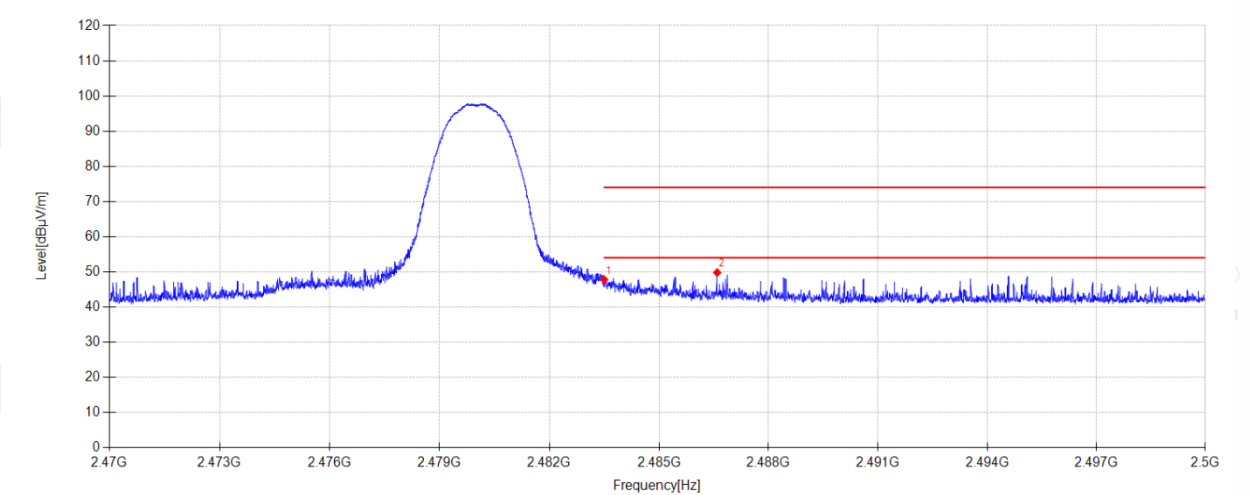
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\26

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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    | 16.37            | 27.54               | 3.88            | 0.00     | 47.79          | 74.00          | 26.21       | PK       | Vertical |
| 2                   | 2486.593    | 18.37            | 27.57               | 3.88            | 0.00     | 49.82          | 74.00          | 24.18       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

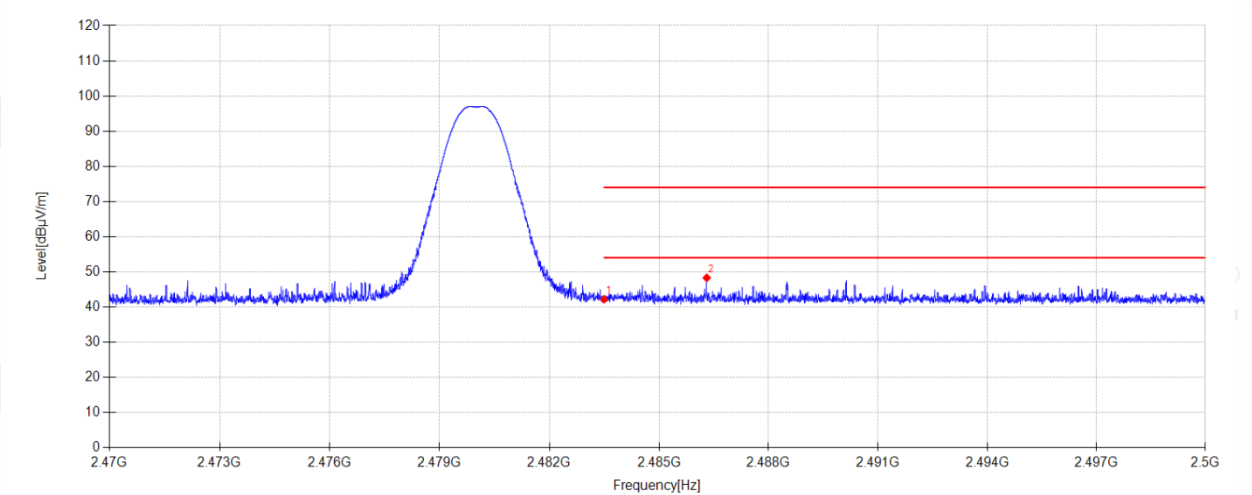
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\27

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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    | 10.80            | 27.54               | 3.88            | 0.00     | 42.22          | 74.00          | 31.78       | PK       | Horizontal |
| 2                   | 2486.308    | 16.87            | 27.56               | 3.88            | 0.00     | 48.31          | 74.00          | 25.69       | 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:

2025-12-23

Tested By:

Li Xiongbín

Test Mode:

TX DH5 2480MHz Mode

Power Supply:

DC 12V

Condition:

Temp:22.5°C;Humi:54.1%

Test Site:

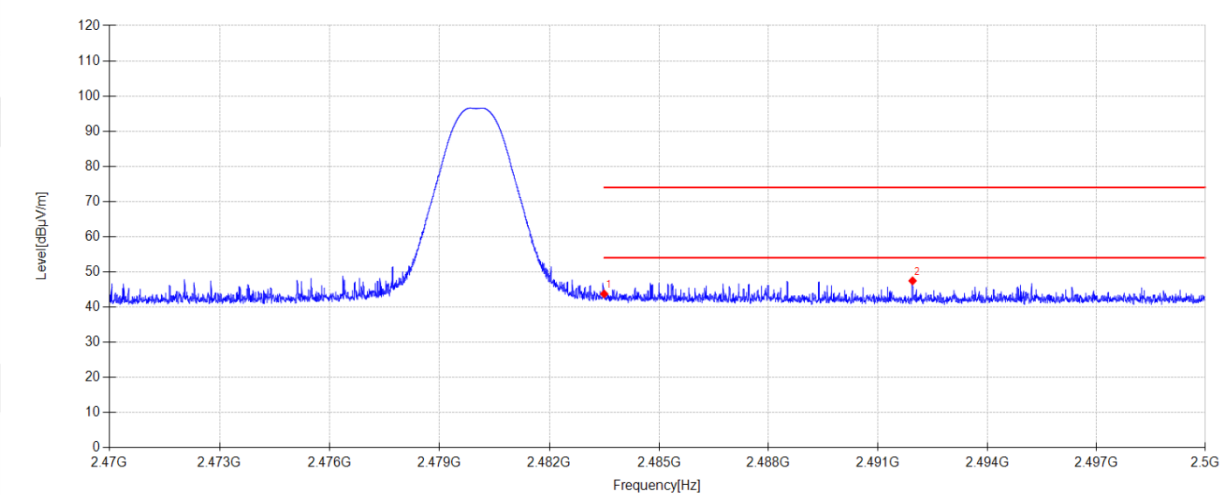
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25121219-5E\FCC ABOVE 1G BT\28

Memo:

Sample Number: S25121219-002 Power Setting: NA



| Suspected 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    | 12.33            | 27.54               | 3.88            | 0.00     | 43.75          | 74.00          | 30.25       | PK       | Vertical |
| 2                   | 2491.951    | 15.95            | 27.62               | 3.89            | 0.00     | 47.46          | 74.00          | 26.54       | 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.

## 16. Photos of the EUT

Please refer to DDT-Q25121219-5E appendix I

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