

# Panasonic Corporation of North America

# TEST REPORT

**Model:**

RB-HJ800

**REPORT NUMBER**

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# Radio Spectrum TEST REPORT

|                               |                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant:</b>             | Panasonic Corporation of North America<br>Two Riverfront Plaza, 9th Floor Newark, New Jersey<br>07102-5490 United States                      |
| <b>Product:</b>               | Digital Wireless Stereo Headphones                                                                                                            |
| <b>Model No.:</b>             | RB-HJ800                                                                                                                                      |
| <b>FCC ID:</b>                | ACJ-RB-HJ800                                                                                                                                  |
| <b>Test Method/ Standard:</b> | 47 CFR FCC Part 15.247 & ANSI C63.10-2020<br>KDB 558074 D01 v05r02                                                                            |
| <b>Test By:</b>               | Intertek Testing Services Taiwan Ltd.,<br>Hsinchu Laboratory<br>No. 17, Ln. 246, Niupu S. Rd., Xiangshan Dist,<br>Hsinchu City 300075, Taiwan |



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## Revision History

| Report No.       | Issue Date    | Revision Summary |
|------------------|---------------|------------------|
| 260700163THC-001 | Sep. 10, 2026 | Original report  |

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## Summary of Test Data

| Test Requirement                      | Applicable Rule<br>(Section 15.247) | Result |
|---------------------------------------|-------------------------------------|--------|
| 20dB Bandwidth Test                   | 15.247(a)(1)                        | Pass   |
| Carrier Frequency Separation Test     | 15.247(a)(1)                        | Pass   |
| Number of Hopping Frequencies Test    | 15.247(a)(1)                        | Pass   |
| Time of Occupancy (Dwell Time) Test   | 15.247(a)(1)(iii)                   | Pass   |
| Maximum Output Power Test             | 15.247(b)                           | Pass   |
| RF Antenna Conducted Spurious Test    | 15.247(d)                           | Pass   |
| Radiated Spurious Emission Test       | 15.205, 15.209                      | Pass   |
| Emission on the Band Edge Test        | 15.247(d)                           | Pass   |
| AC Power Line Conducted Emission Test | 15.207                              | Pass   |
| Antenna Requirement                   | 15.203                              | Pass   |

Note: Please note that the test results with statement of conformity, the decision rules which are based on: Safety Testing: the specification, standard or IEC Guide 115.

Other Testing: the specification, standard and not taking into account the measurement uncertainty.

## 1. General Information

### 1.1 Identification of the EUT

|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>Product:</b>                   | Digital Wireless Stereo Headphones |
| <b>Model No.:</b>                 | RB-HJ800                           |
| <b>Operating Frequency:</b>       | 2402 MHz ~ 2480 MHz                |
| <b>Channel Number:</b>            | 79 channels                        |
| <b>Frequency of Each Channel:</b> | 2402+1 k, k=0 ~ 78                 |
| <b>Rating:</b>                    | DC 3.7 V                           |
| <b>Power Cord:</b>                | N/A                                |
| <b>Sample receiving date:</b>     | 2026/07/16                         |
| <b>Sample condition:</b>          | Workable                           |
| <b>Test Date(s):</b>              | 2026/07/20 ~ 2026/08/15            |

### 1.2 Antenna description

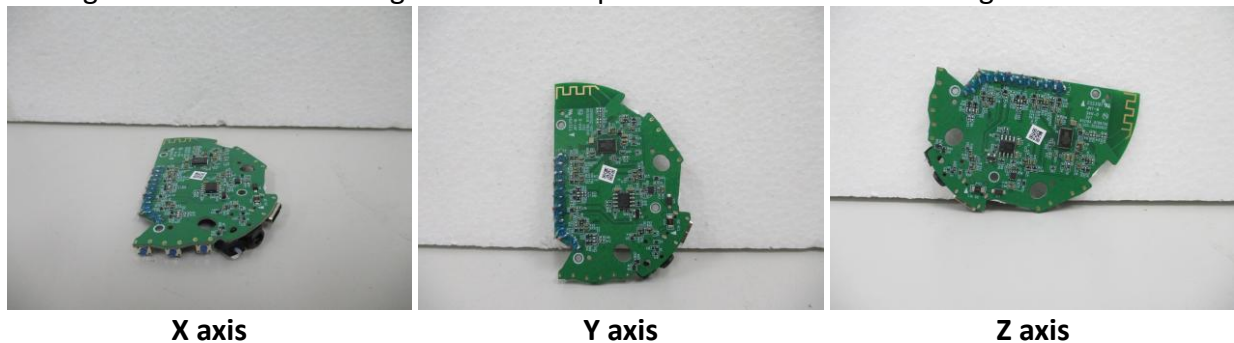
Antenna Gain : -4.91366 dBi  
 Antenna Type : PCB antenna  
 Connector Type : Fixed  
 Remark : Antenna information provided by the client.

### 1.3 Operation mode

Connected to Notebook PC via USB Cable, executing "BT Tool" and enter command to select different frequency and modulation.

With individual verifying, we select GFSK(DH5) & 8-DPSK(3DH5) as the worst cases for radiation above 1GHz.

The signal is maximized through rotation and placement in the Three orthogonal axes.



After verifying three axes, we found the maximum electromagnetic field was occurred at X axis. The final test data was executed under this configuration.

| Mode | Channel | Frequency (MHz) | Signal on time (ms) | Signal on+off time (ms) | Duty cycle | Duty Cycle factor (dB) |
|------|---------|-----------------|---------------------|-------------------------|------------|------------------------|
| DH5  | 39      | 2441            | 2.90                | 3.75                    | 77.19      | 2.25                   |
| 2DH5 | 39      | 2441            | 2.91                | 3.75                    | 77.48      | 2.22                   |
| 3DH5 | 39      | 2441            | 2.91                | 3.75                    | 77.48      | 2.22                   |

### 1.4 Peripherals equipment

| Peripheral Name | Brand | Model No.         | Serial No. |
|-----------------|-------|-------------------|------------|
| Notebook PC     | HP    | HP ProBook 440 G3 | 5CD8021S9H |
| Notebook PC     | DELL  | P193G             | N/A        |

| Peripheral Name | Length | Shielded(Y/N) | Brand     | Model No. |
|-----------------|--------|---------------|-----------|-----------|
| USB 2.0         | 1m     | N             | Multicomp | SPC20060  |

## 2. 20dB Bandwidth Test

### 2.1 Test Setup & Procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The 20dB bandwidth per FCC §15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set  $\geq 1\%$  of 20dB Bandwidth, the video bandwidth  $\geq$  RBW, and the SPAN may equal to approximately 2 to 3 times the 20dB bandwidth. The test was performed at 3 channels (lowest, middle and highest channel). The maximum 20dB modulation bandwidth is in the following Table.

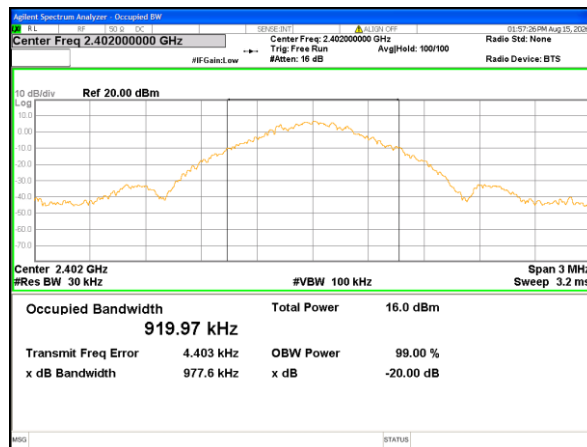
### 2.2 Operating Environment Condition

|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 25         |
| Relative Humidity (%) : | 56         |
| Test date :             | 2026/08/15 |

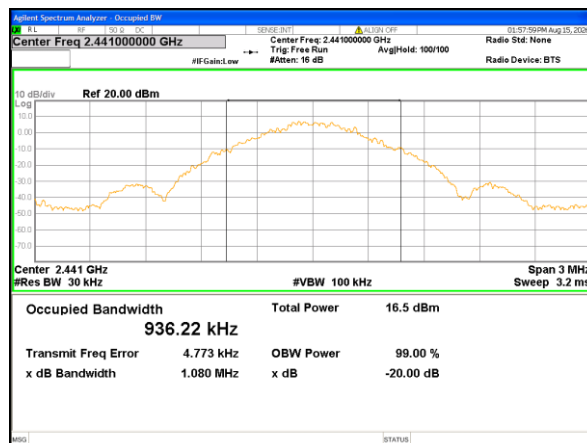
### 2.3 Test Results

| Mode | Channel | Frequency (MHz) | 20dB Bandwidth (MHz) |
|------|---------|-----------------|----------------------|
| DH5  | 0       | 2402            | 0.98                 |
|      | 39      | 2441            | 1.08                 |
|      | 78      | 2480            | 1.10                 |
| 2DH5 | 0       | 2402            | 1.29                 |
|      | 39      | 2441            | 1.28                 |
|      | 78      | 2480            | 1.31                 |
| 3DH5 | 0       | 2402            | 1.27                 |
|      | 39      | 2441            | 1.25                 |
|      | 78      | 2480            | 1.29                 |

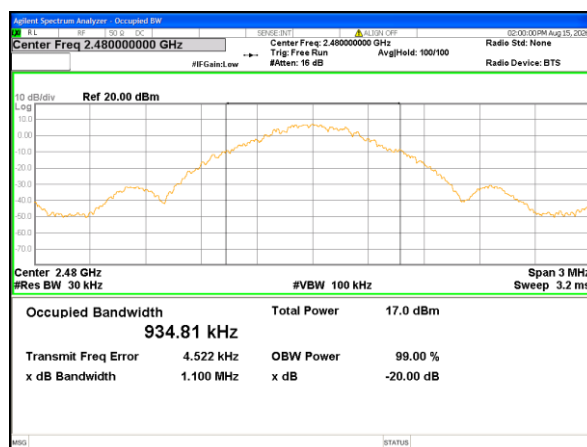
### 20dB Bandwidth @ DH5 Mode CH0



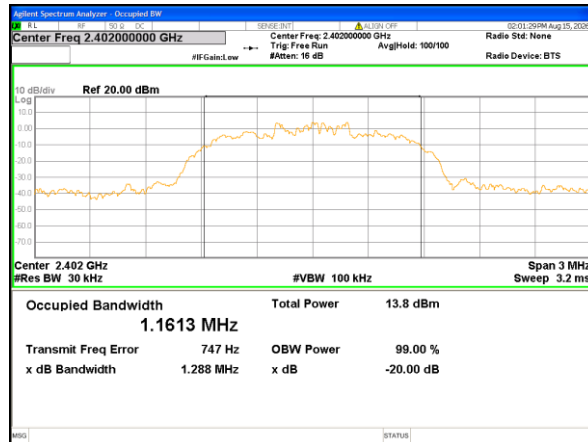
### 20dB Bandwidth @ DH5 Mode CH39



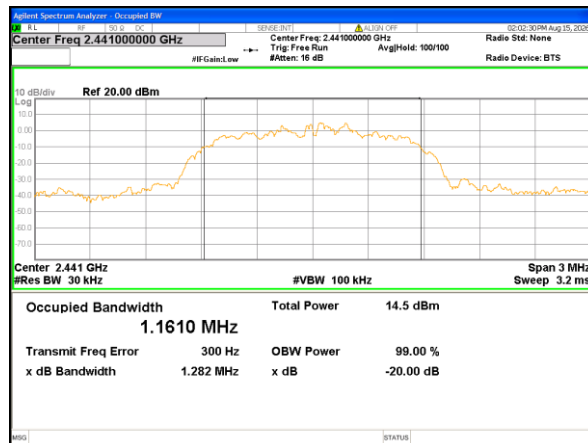
### 20dB Bandwidth @ DH5 Mode CH78



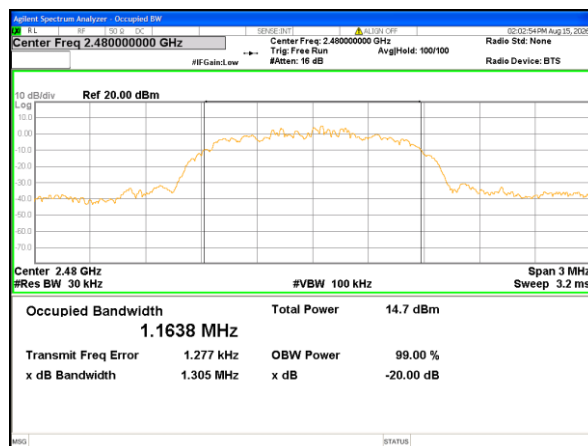
### 20dB Bandwidth @ 2DH5 Mode CH0



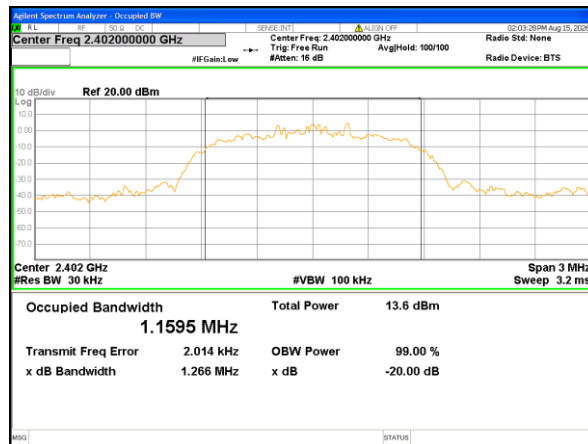
### 20dB Bandwidth @ 2DH5 Mode CH39



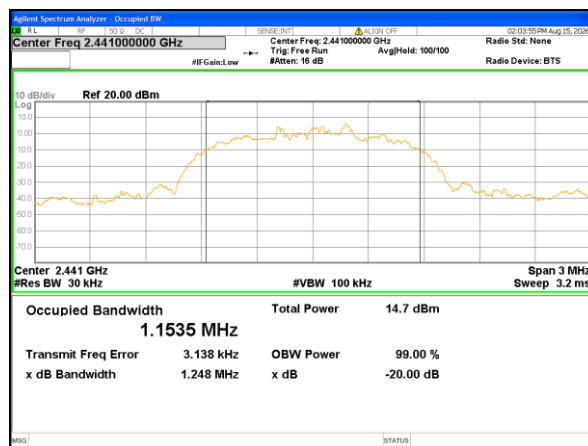
### 20dB Bandwidth @ 2DH5 Mode CH78



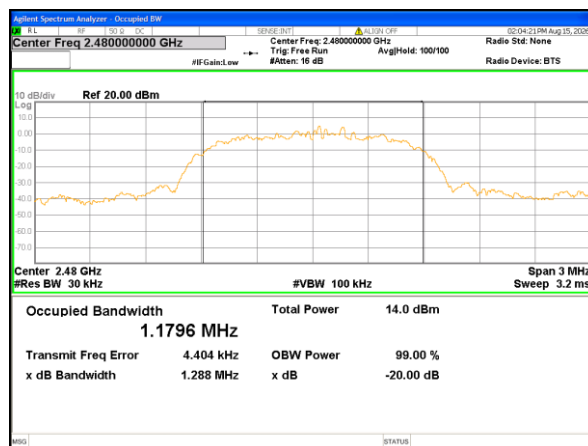
### 20dB Bandwidth @ 3DH5 Mode CH0



### 20dB Bandwidth @ 3DH5 Mode CH39



### 20dB Bandwidth @ 3DH5 Mode CH78



### 3. Carrier Frequency Separation Test

#### 3.1 Test Setup & Procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The carrier frequency separation per FCC §15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at  $\geq 1\%$  of the span, the video bandwidth  $\geq$  RBW, and the SPAN was wide enough to capture the peaks of two adjacent channels. The carrier frequency separation result is in the following Table.

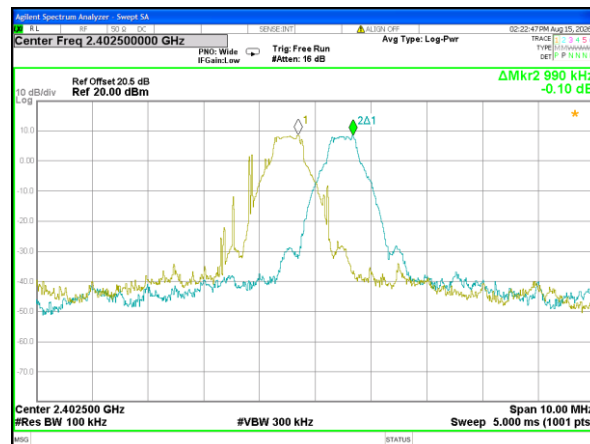
#### 3.2 Operating Environment Condition

|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 25         |
| Relative Humidity (%) : | 56         |
| Test date :             | 2026/08/15 |

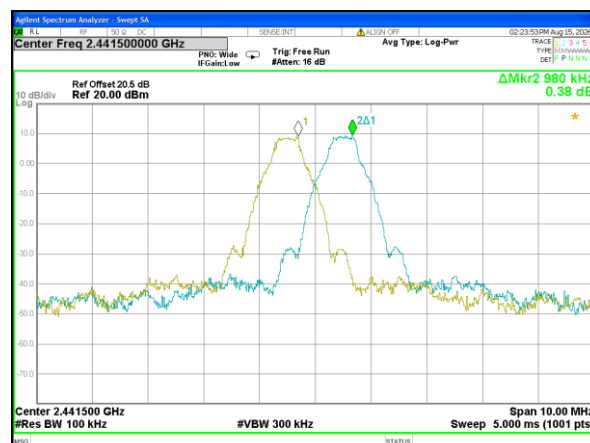
#### 3.3 Test Results

| Mode | Channel | Frequency (MHz) | Adjacent channel separation (MHz) | >Limit (MHz) | Results |
|------|---------|-----------------|-----------------------------------|--------------|---------|
| DH5  | 0       | 2402            | 0.99                              | 0.65         | PASS    |
|      | 39      | 2441            | 0.98                              | 0.72         | PASS    |
|      | 78      | 2480            | 1.23                              | 0.73         | PASS    |
| 2DH5 | 0       | 2402            | 1.22                              | 0.86         | PASS    |
|      | 39      | 2441            | 1.01                              | 0.85         | PASS    |
|      | 78      | 2480            | 1.26                              | 0.87         | PASS    |
| 3DH5 | 0       | 2402            | 1.34                              | 0.84         | PASS    |
|      | 39      | 2441            | 1.35                              | 0.83         | PASS    |
|      | 78      | 2480            | 1.38                              | 0.86         | PASS    |

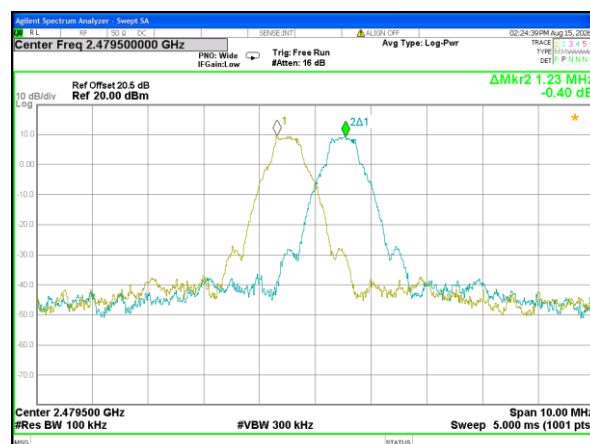
### Frequency Separation @ DH5 Mode CH0



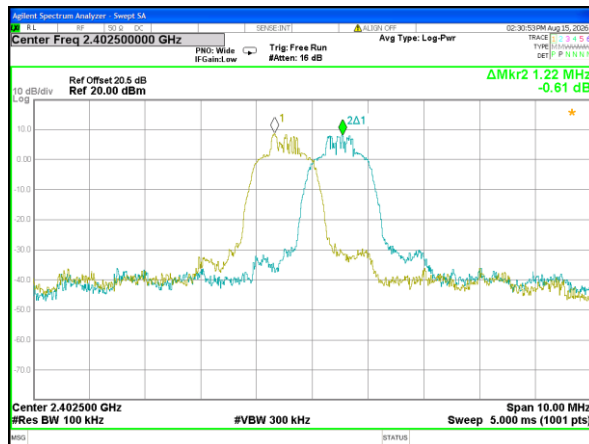
### Frequency Separation @ DH5 Mode CH39



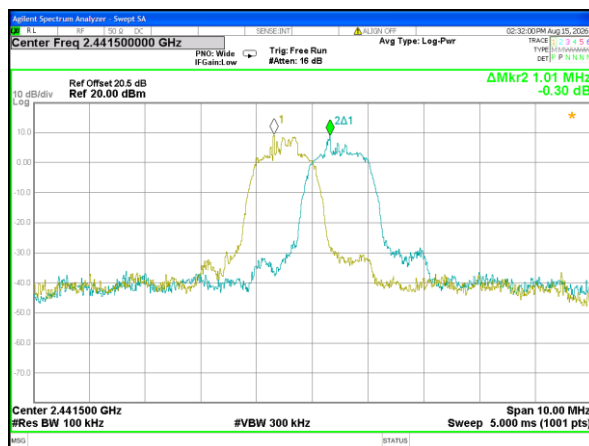
### Frequency Separation @ DH5 Mode CH78



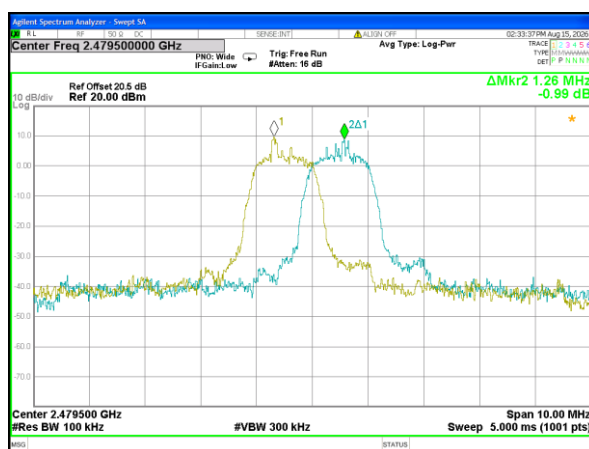
### Frequency Separation @ 2DH5 Mode CH0



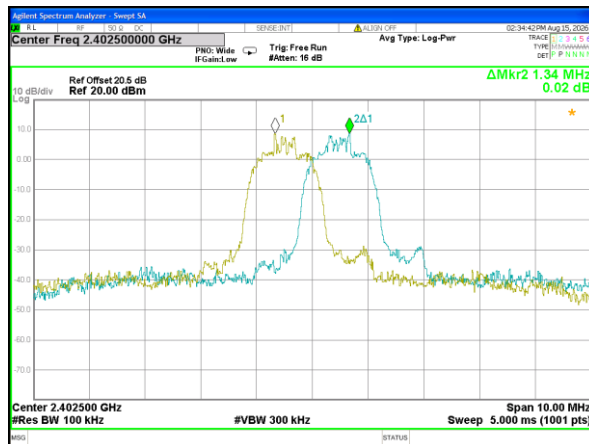
### Frequency Separation @ 2DH5 Mode CH39



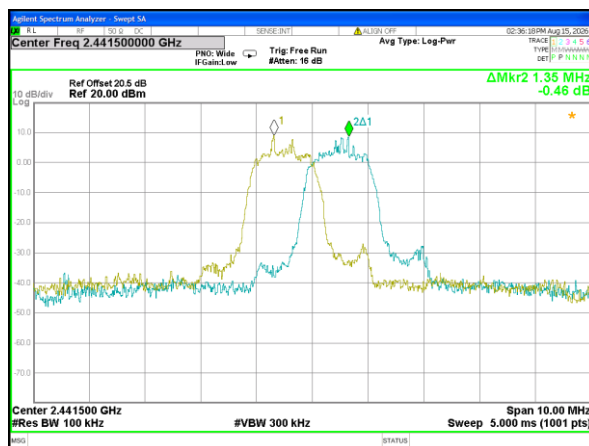
### Frequency Separation @ 2DH5 Mode CH78



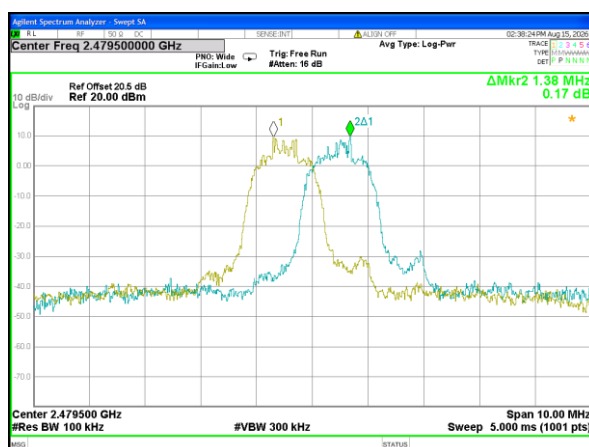
### Frequency Separation @ 3DH5 Mode CH0



### Frequency Separation @ 3DH5 Mode CH39



### Frequency Separation @ 3DH5 Mode CH78



#### 4. Number of Hopping Frequencies Test

##### 4.1 Test Setup & Procedure

**The test procedure was according to FCC measurement guidelines DA 00-705.**

The number of hopping frequencies per FCC §15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at  $\geq 1\%$  of the span, the video bandwidth  $\geq$  RBW, and the SPAN was the frequency band of operation. The carrier frequency separation result is in the following Table.

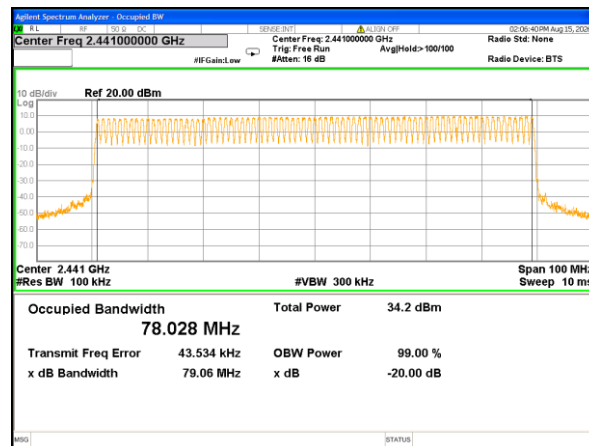
##### 4.2 Operating Environment Condition

|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 25         |
| Relative Humidity (%) : | 56         |
| Test date :             | 2026/08/15 |

##### 4.3 Test Results

| Frequency Range (MHz) | Hopping Channels |
|-----------------------|------------------|
| 2402~2480             | 79               |

## Number of Hopping Frequencies



## 5. Time of Occupancy (Dwell Time)

### 5.1 Test Setup & Procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The time of occupancy (dwell time) per FCC §15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at 1MHz, the video bandwidth  $\geq$  RBW, and the zero span function of spectrum analyzer was enable. The EUT has its hopping function enable.

### 5.2 Operating Environment Condition

|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 25         |
| Relative Humidity (%) : | 56         |
| Test date :             | 2026/08/15 |

### 5.3 Test Results

The total sweep time is  $0.4 \times 79$  Channels = 31.6 seconds

Due to the number of hops in the 31.6s sweep, we determined to reduce the sweep time to 5s, count the number of hops and multiply by 6.32. The total number of hops will be multiplied by the measured time of one pulse.

| Mode | Pulse duration (ms) | Measure time (s) | Dwell time (s) | <Limit (s) | Results |
|------|---------------------|------------------|----------------|------------|---------|
| DH1  | 0.40                | 31.6             | 0.127          | 0.4        | PASS    |
| DH3  | 1.66                | 31.6             | 0.266          | 0.4        | PASS    |
| DH5  | 2.91                | 31.6             | 0.311          | 0.4        | PASS    |
| 2DH1 | 0.41                | 31.6             | 0.131          | 0.4        | PASS    |
| 2DH3 | 1.66                | 31.6             | 0.266          | 0.4        | PASS    |
| 2DH5 | 2.91                | 31.6             | 0.311          | 0.4        | PASS    |
| 3DH1 | 0.41                | 31.6             | 0.131          | 0.4        | PASS    |
| 3DH3 | 1.66                | 31.6             | 0.266          | 0.4        | PASS    |
| 3DH5 | 2.92                | 31.6             | 0.311          | 0.4        | PASS    |

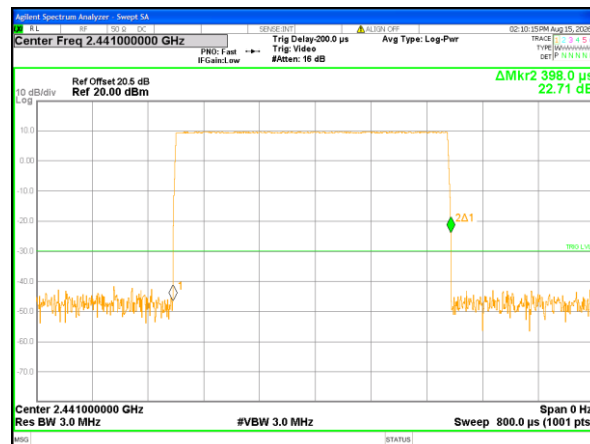
Note: (1) Dwell time =  $1600 \div (79 \times N) \times \text{Pulse duration} \times \text{Measure time}$

(2) DH1, N=2

DH3, N=4

DH5, N=6

## Dwell Time @ 1DH1 Mode CH39



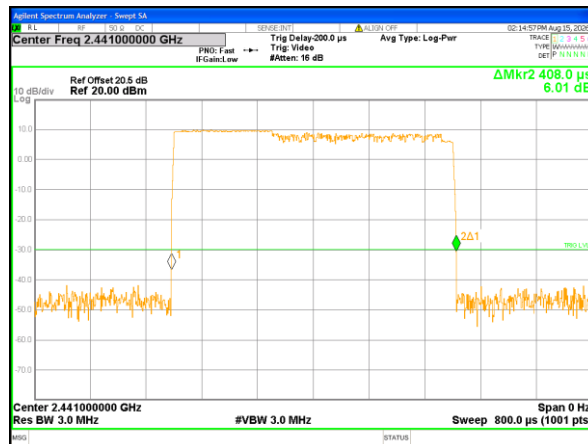
## Dwell Time @ 1DH3 Mode CH39



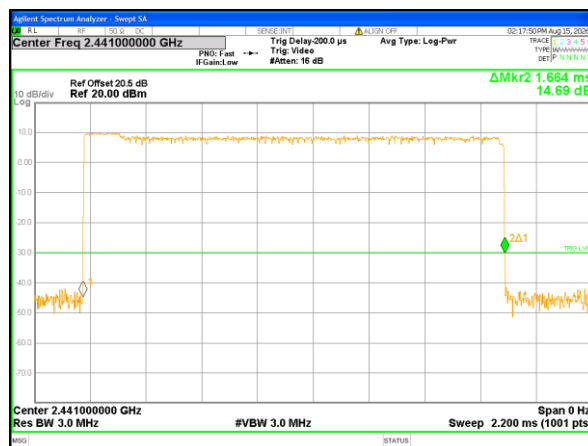
## Dwell Time @ DH5 Mode CH39



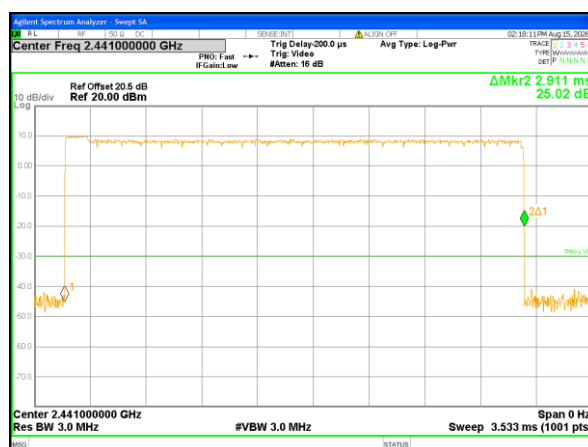
## Dwell Time @ 2DH1 Mode CH39



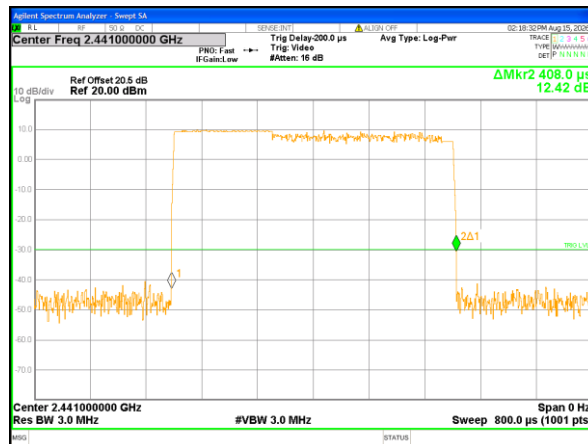
## Dwell Time @ 2DH3 Mode CH39



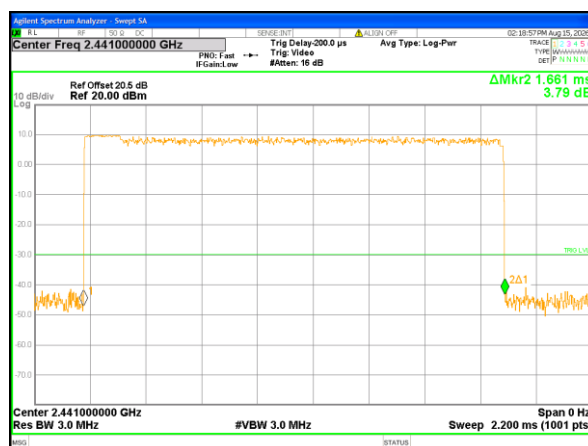
## Dwell Time @ 2DH5 Mode CH39



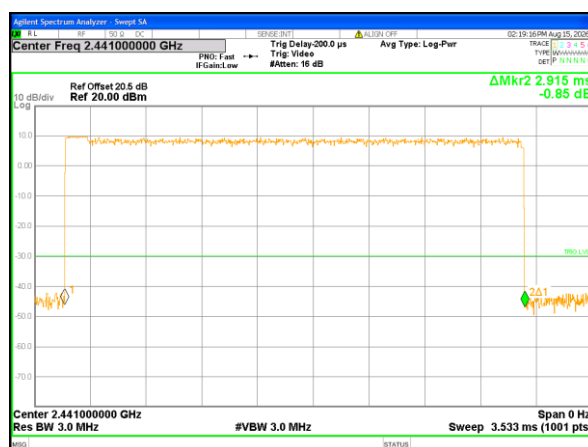
## Dwell Time @ 3DH1 Mode CH39



## Dwell Time @ 3DH3 Mode CH39



## Dwell Time @ 3DH5 Mode CH39



## 6. Maximum Output Power Test

### 6.1 Test Setup & Procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The power output per FCC §15.247(b) was measured on the EUT using a 50 ohm SMA cable connected to peak power meter via power sensor. Power was read directly and cable loss correction (2 dB) was added to the reading to obtain power at the EUT antenna terminals. The test was performed at 3 channels (lowest, middle and highest channel).

### 6.2 Operating Environment Condition

|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 25         |
| Relative Humidity (%) : | 56         |
| Test date :             | 2026/08/15 |

### 6.3 Test Results

| Mode | Channel | Frequency (MHz) | Output Power (AV) (dBm) | Total Power (AV) (mW) | Maximum power (PK) (dBm) | Maximum power (PK) (mW) | Limit (dBm) | Margin (dB) |
|------|---------|-----------------|-------------------------|-----------------------|--------------------------|-------------------------|-------------|-------------|
| DH5  | 0       | 2402            | 9.47                    | 8.85                  | 10.15                    | 10.35                   | 30          | -19.85      |
|      | 39      | 2441            | 9.92                    | 9.82                  | 10.60                    | 11.48                   | 30          | -19.40      |
|      | 78      | 2480            | 10.37                   | 10.89                 | 10.81                    | 12.05                   | 30          | -19.19      |
| 2DH5 | 0       | 2402            | 6.88                    | 4.88                  | 10.13                    | 10.30                   | 21          | -10.87      |
|      | 39      | 2441            | 7.35                    | 5.43                  | 10.60                    | 11.48                   | 21          | -10.40      |
|      | 78      | 2480            | 7.83                    | 6.07                  | 10.74                    | 11.86                   | 21          | -10.26      |
| 3DH5 | 0       | 2402            | 8.16                    | 6.55                  | 10.12                    | 10.28                   | 21          | -10.88      |
|      | 39      | 2441            | 6.37                    | 4.34                  | 10.11                    | 10.26                   | 21          | -10.89      |
|      | 78      | 2480            | 6.87                    | 4.86                  | 10.30                    | 10.72                   | 21          | -10.70      |

## 7. RF Antenna Conducted Spurious Test

### 7.1 Test Setup & Procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The measurements were performed from 30MHz to 25GHz RF antenna conducted per FCC 15.247 (c) was measured from the EUT antenna port using a 50ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at 100 kHz.

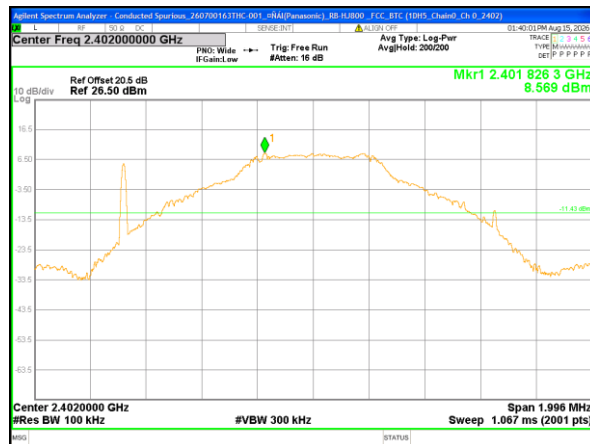
Harmonics and spurious noise must be at least 20dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.

### 7.2 Operating Environment Condition

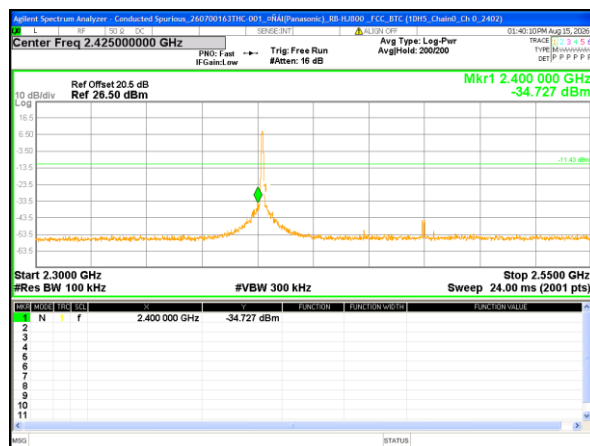
|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 25         |
| Relative Humidity (%) : | 56         |
| Test date :             | 2026/08/15 |

| Mode | Channel | Frequency (MHz) | Delta (dBc) | Limit (dBc) |
|------|---------|-----------------|-------------|-------------|
| DH5  | 0       | 2402            | 43.30       | >20         |
|      | 39      | 2441            | 47.29       | >20         |
|      | 78      | 2480            | 50.40       | >20         |
| 2DH5 | 0       | 2402            | 43.91       | >20         |
|      | 39      | 2441            | 49.90       | >20         |
|      | 78      | 2480            | 44.07       | >20         |
| 3DH5 | 0       | 2402            | 42.69       | >20         |
|      | 39      | 2441            | 47.39       | >20         |
|      | 78      | 2480            | 46.13       | >20         |

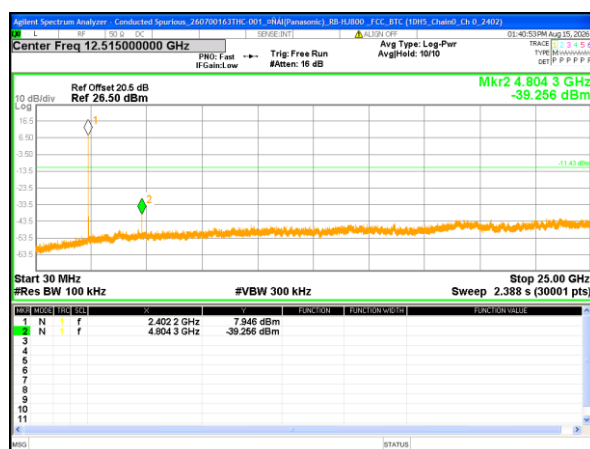
### Conducted Spurious @ DH5 Mode CH0



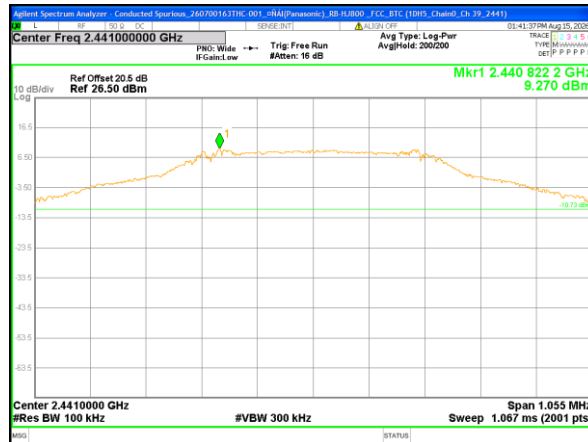
### Conducted Spurious @ DH5 Mode CH0



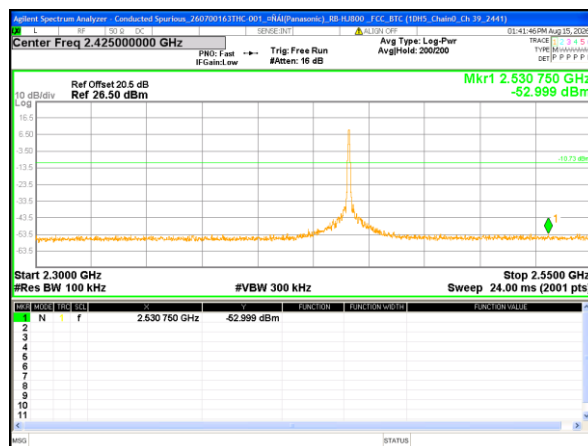
### Conducted Spurious @ DH5 Mode CH0



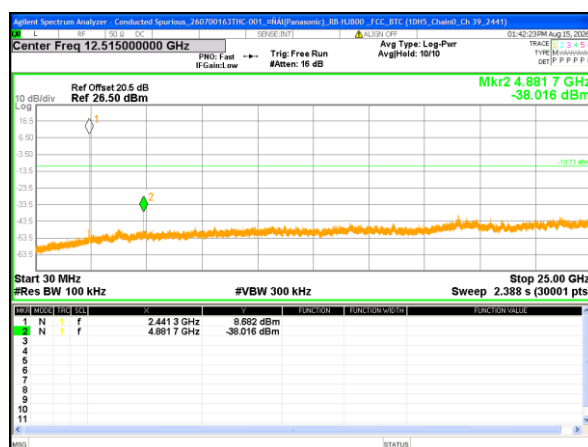
### Conducted Spurious @ DH5 Mode CH39



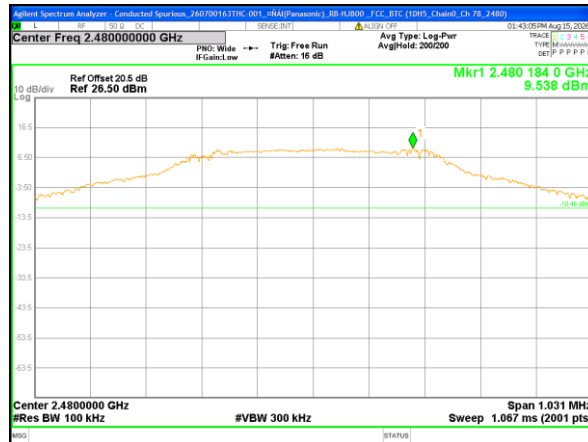
### Conducted Spurious @ DH5 Mode CH39



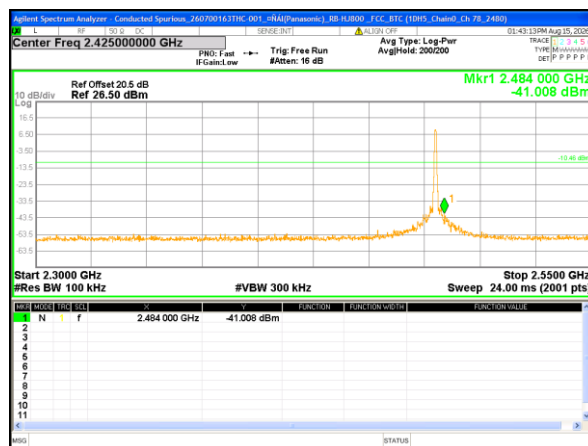
### Conducted Spurious @ DH5 Mode CH39



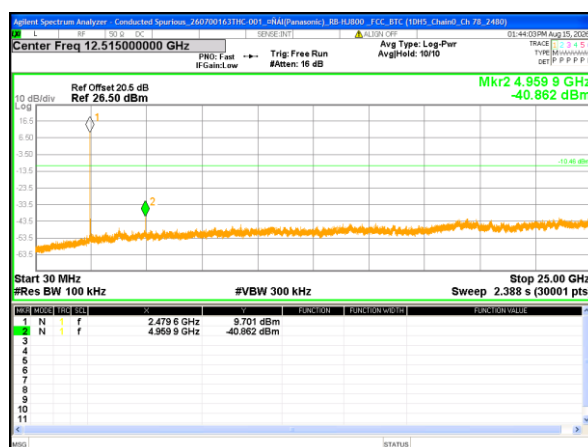
### Conducted Spurious @ DH5 Mode CH78



### Conducted Spurious @ DH5 Mode CH78



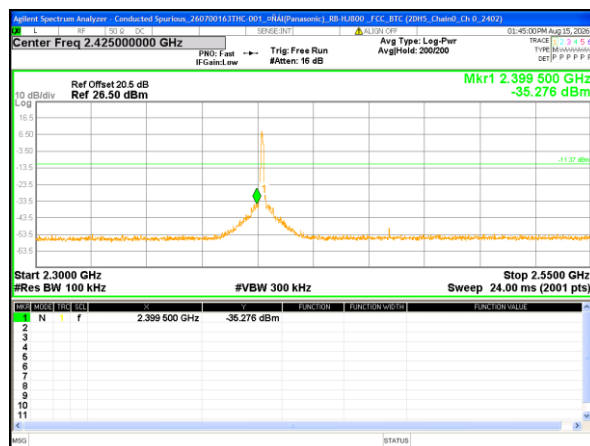
### Conducted Spurious @ DH5 Mode CH78



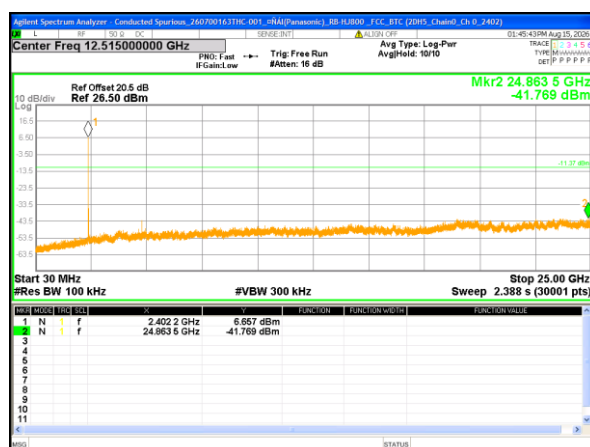
### Conducted Spurious @ 2DH5 Mode CH0



### Conducted Spurious @ 2DH5 Mode CH0



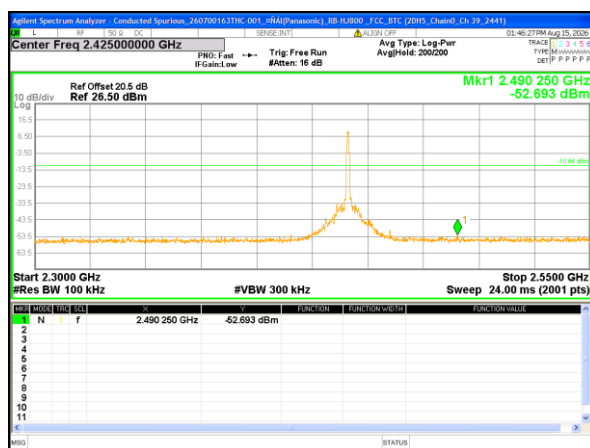
### Conducted Spurious @ 2DH5 Mode CH0



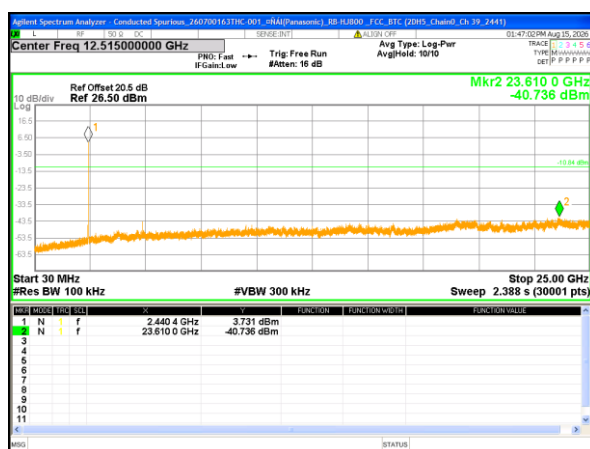
### Conducted Spurious @ 2DH5 Mode CH39



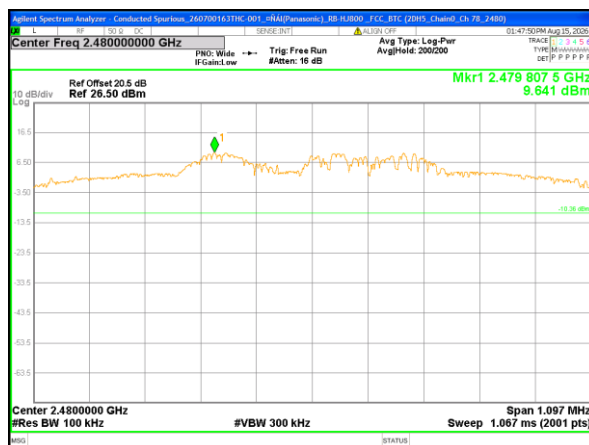
### Conducted Spurious @ 2DH5 Mode CH39



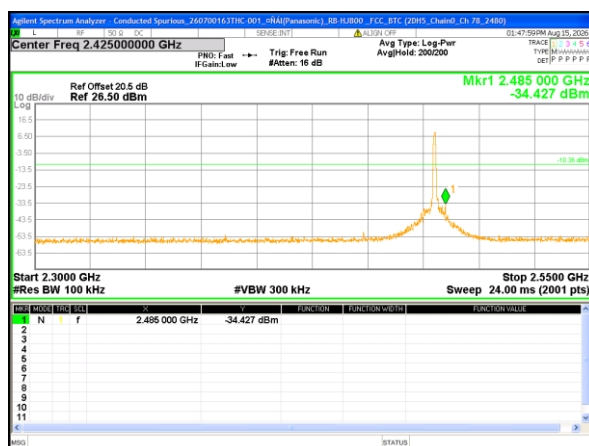
### Conducted Spurious @ 2DH5 Mode CH39



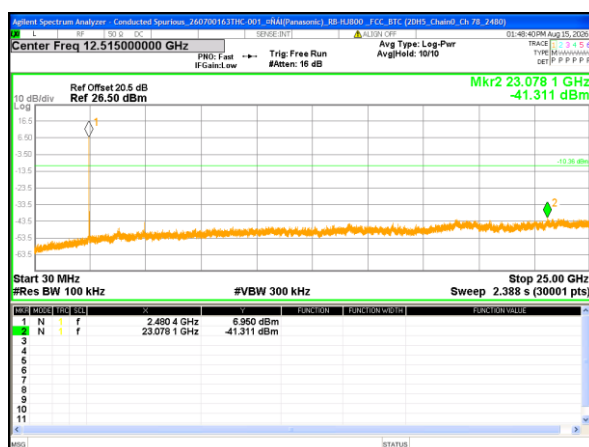
### Conducted Spurious @ 2DH5 Mode CH78



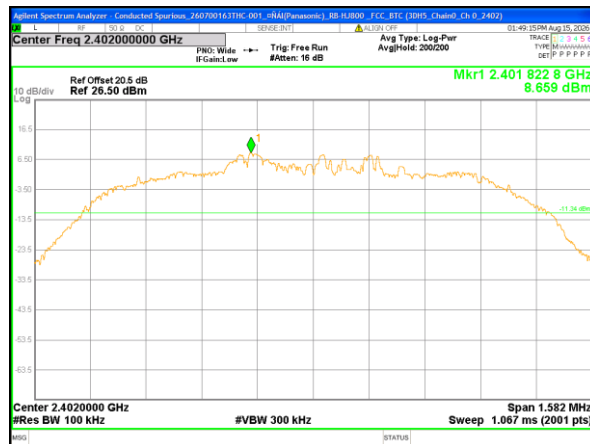
### Conducted Spurious @ 2DH5 Mode CH78



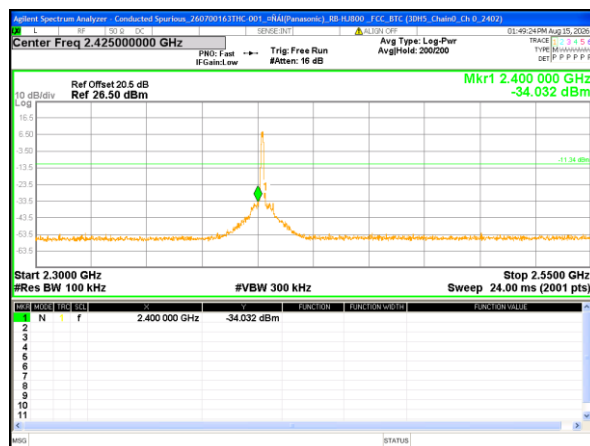
### Conducted Spurious @ 2DH5 Mode CH78



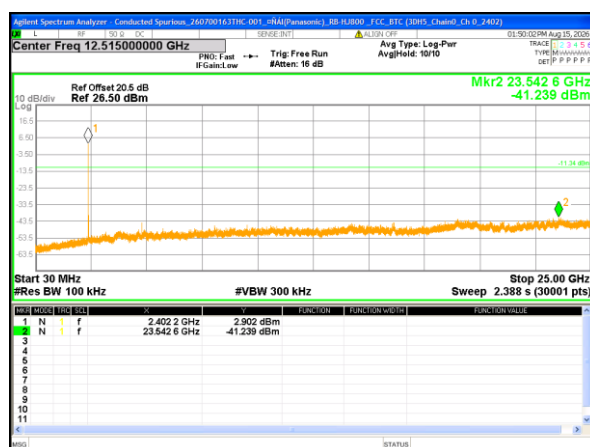
### Conducted Spurious @ 3DH5 Mode CH0



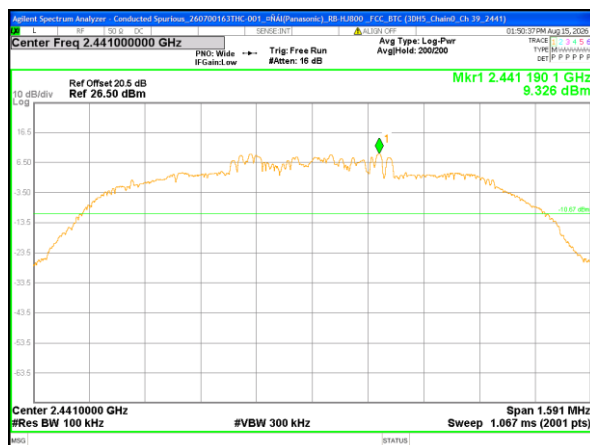
### Conducted Spurious @ 3DH5 Mode CH0



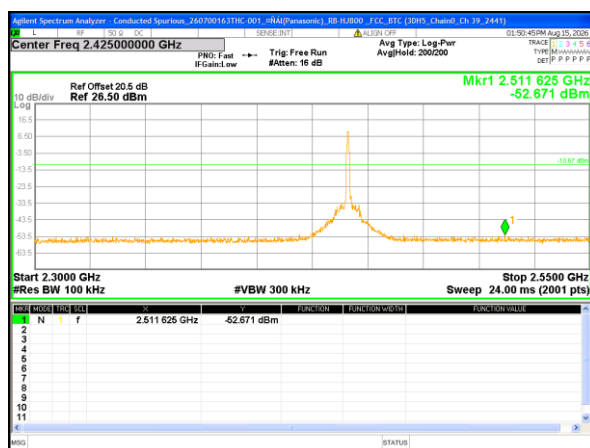
### Conducted Spurious @ 3DH5 Mode CH0



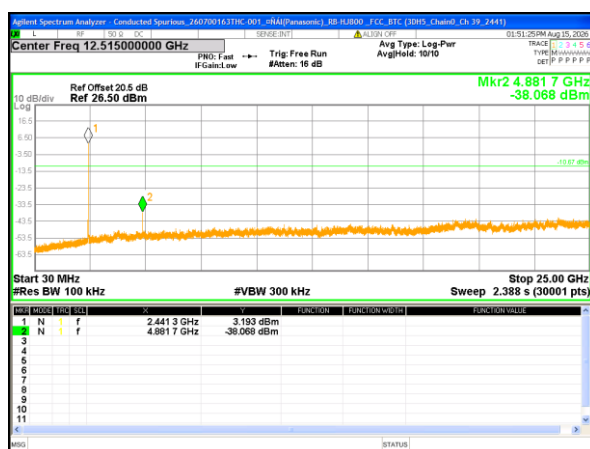
### Conducted Spurious @ 3DH5 Mode CH39



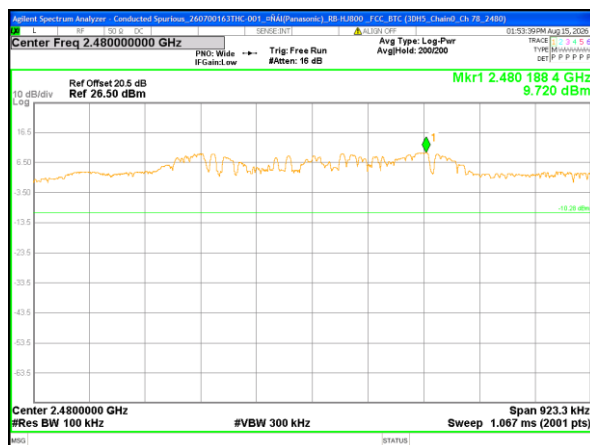
### Conducted Spurious @ 3DH5 Mode CH39



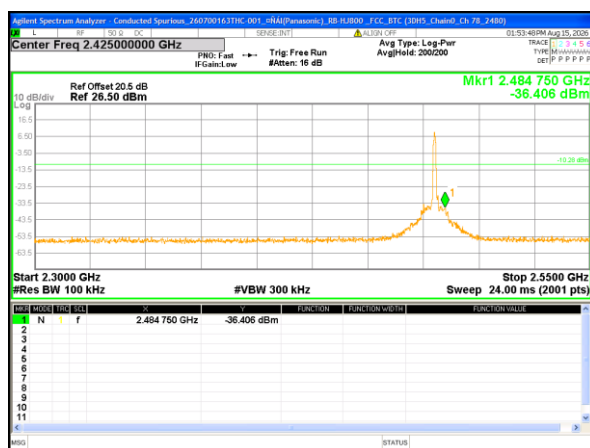
### Conducted Spurious @ 3DH5 Mode CH39



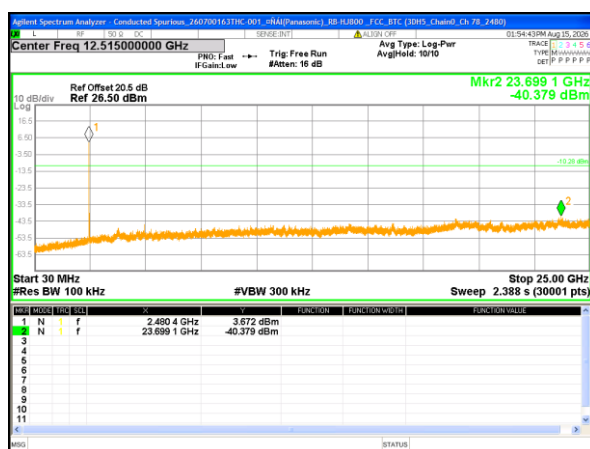
### Conducted Spurious @ 3DH5 Mode CH78



### Conducted Spurious @ 3DH5 Mode CH78



### Conducted Spurious @ 3DH5 Mode CH78



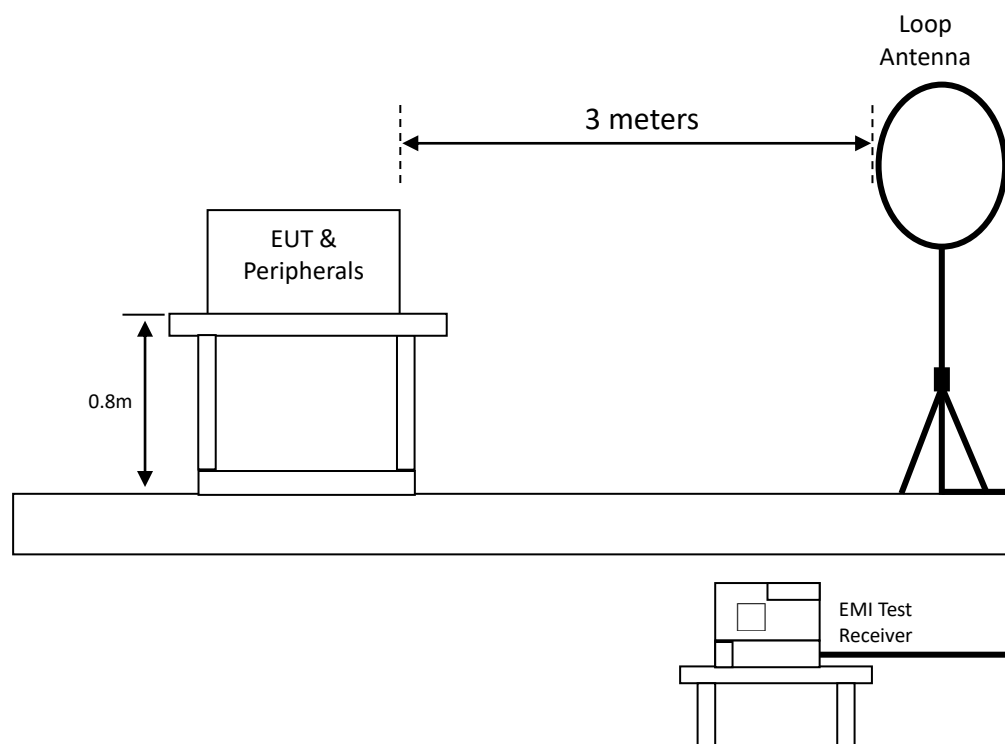
## 8. Emissions in Restricted Frequency Bands (Radiated emission measurements)

### 8.1 Instrument Setting

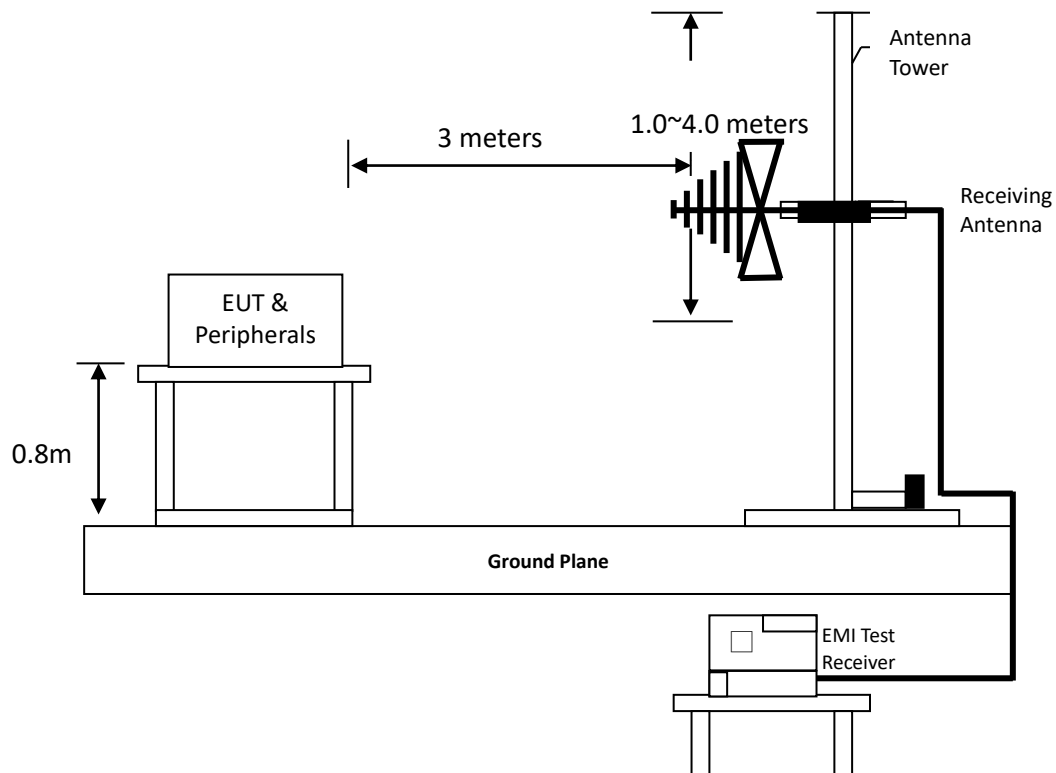
| Receiver Function | Setting (Below 1GHz)                                                        | Setting (Above 1GHz)   |
|-------------------|-----------------------------------------------------------------------------|------------------------|
| Detector          | QP                                                                          | Peak and Average       |
| RBW               | 9-150 kHz ; 200-300 Hz<br>0.15-30 MHz; 9-10 kHz<br>30-1000 MHz; 100-120 kHz | 1MHz                   |
| VBW               | $\geq 3 \times \text{RBW}$                                                  | 3MHz & 1/T Minimum VBW |
| Sweep             | Auto couple                                                                 | Auto couple            |
| Start Frequency   | 9 kHz                                                                       | 1GHz                   |
| Stop Frequency    | 1 GHz                                                                       | Tenth harmonic         |
| Attenuation       | Auto                                                                        | Auto                   |

### 8.2 Test setup & procedure

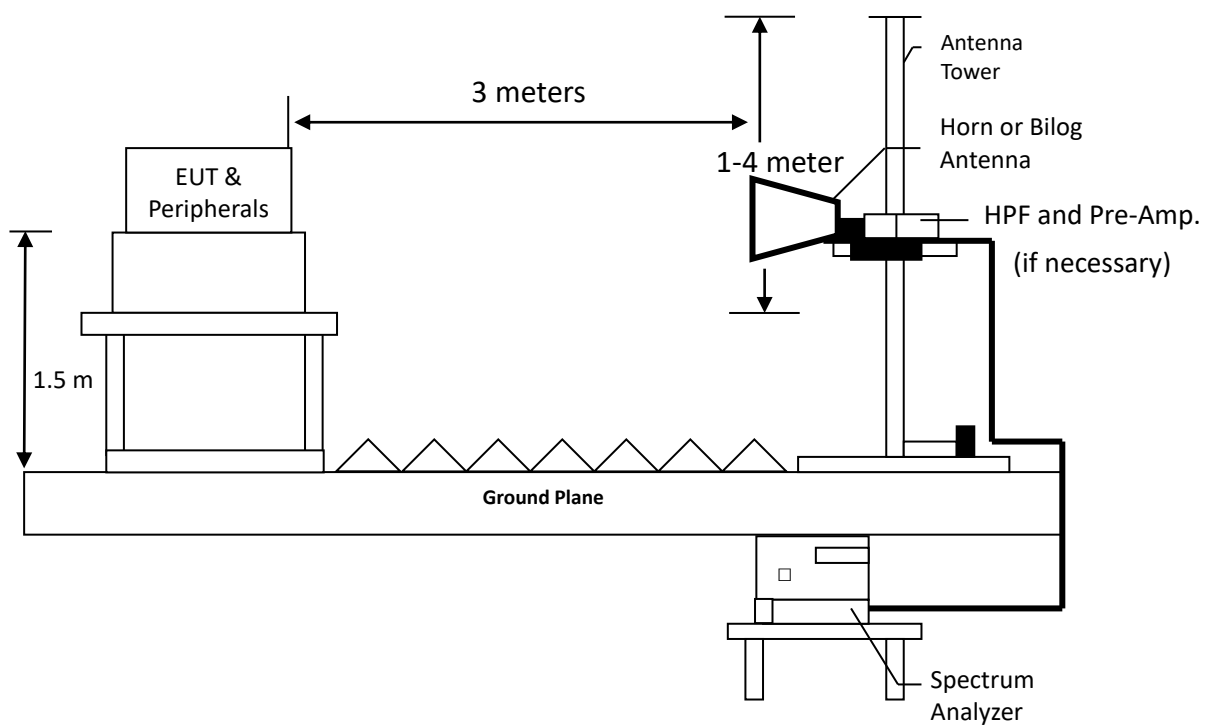
**Radiated emission from 9kHz to 30MHz uses Loop Antenna:**



### Radiated emission below 1GHz using Bilog Antenna



### Radiated emission above 1GHz using Horn Antenna



## TEST REPORT

Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1 MHz RBW/ 3 MHz VBW) recorded also on the report.

The EUT for testing is arranged on a turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

### 8.3 Limit

| Frequency(MHz) | Field Strength(uV/m) | Measurement distance(m) |
|----------------|----------------------|-------------------------|
| 0.009~0.490    | 2400/F(kHz)          | 300                     |
| 0.490~1.705    | 24000/F(kHz)         | 30                      |
| 1.705~30       | 30                   | 30                      |
| 30-88          | 100                  | 3                       |
| 88-216         | 150                  | 3                       |
| 216-960        | 200                  | 3                       |
| Above 960      | 500                  | 3                       |

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and

## 8.4 Test Result

### 8.4.1 Measurement results: frequencies 9kHz to 30MHz

|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 24         |
| Relative Humidity (%) : | 76         |
| Test date :             | 2026/07/20 |

The test was performed on EUT under continuously transmitting mode. The worst case occurred at 1DH5 Ch 78.

| Ant Polarity  | Frequency (MHz) | Detector | Factor (dB/m) | Reading (dBuV) | Corrected Reading (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) |
|---------------|-----------------|----------|---------------|----------------|----------------------------|---------------------|-------------|
| Perpendicular | 0.61            | PK       | 18.36         | 29.53          | 47.89                      | 71.91               | -24.02      |
| Perpendicular | 1.18            | PK       | 18.48         | 21.51          | 39.99                      | 66.17               | -26.18      |
| Perpendicular | 1.48            | PK       | 18.46         | 17.60          | 36.06                      | 64.20               | -28.14      |
| Perpendicular | 1.72            | PK       | 18.44         | 18.23          | 36.67                      | 69.54               | -32.87      |
| Perpendicular | 2.08            | PK       | 18.42         | 14.77          | 33.19                      | 69.54               | -36.35      |
| Perpendicular | 2.41            | PK       | 18.46         | 14.61          | 33.07                      | 69.54               | -36.47      |

Remark: Corr. Factor = Antenna Factor + Cable Loss

| Ant Polarity | Frequency (MHz) | Detector | Factor (dB/m) | Reading (dBuV) | Corrected Reading (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) |
|--------------|-----------------|----------|---------------|----------------|----------------------------|---------------------|-------------|
| Parallel     | 0.61            | PK       | 18.36         | 31.45          | 49.81                      | 71.91               | -22.10      |
| Parallel     | 1.21            | PK       | 18.48         | 19.32          | 37.80                      | 65.96               | -28.16      |
| Parallel     | 1.81            | PK       | 18.43         | 17.53          | 35.96                      | 69.54               | -33.58      |
| Parallel     | 2.35            | PK       | 18.45         | 15.79          | 34.24                      | 69.54               | -35.30      |
| Parallel     | 2.95            | PK       | 18.51         | 13.56          | 32.07                      | 69.54               | -37.47      |
| Parallel     | 3.55            | PK       | 18.80         | 12.46          | 31.26                      | 69.54               | -38.28      |

Remark: Corr. Factor = Antenna Factor + Cable Loss

| Ant Polarity    | Frequency<br>(MHz) | Detector | Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Reading<br>(dBuV/m) | Limit<br>@ 3m<br>(dBuV/m) | Margin<br>(dB) |
|-----------------|--------------------|----------|------------------|-------------------|----------------------------------|---------------------------|----------------|
| Ground-parallel | 0.55               | PK       | 18.30            | 29.59             | 47.89                            | 72.81                     | -24.92         |
| Ground-parallel | 0.91               | PK       | 18.49            | 19.17             | 37.66                            | 68.43                     | -30.77         |
| Ground-parallel | 1.27               | PK       | 18.47            | 21.00             | 39.47                            | 65.53                     | -26.06         |
| Ground-parallel | 1.48               | PK       | 18.46            | 18.49             | 36.95                            | 64.20                     | -27.25         |
| Ground-parallel | 1.78               | PK       | 18.43            | 20.36             | 38.79                            | 69.54                     | -30.75         |
| Ground-parallel | 19.71              | PK       | 21.89            | 9.92              | 31.81                            | 69.54                     | -37.73         |

Remark: Corr. Factor = Antenna Factor + Cable Loss

#### 8.4.2 Measurement results: frequencies below 1 GHz

|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 24         |
| Relative Humidity (%) : | 76         |
| Test date :             | 2026/07/20 |

The test was performed on EUT under continuously transmitting mode. The worst case occurred at 1DH5 Ch 78.

| Ant Polarity | Frequency<br>(MHz) | Detector | Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Reading<br>(dBuV/m) | Limit<br>@ 3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|----------|------------------|-------------------|----------------------------------|---------------------------|----------------|
| Horizontal   | 72.00              | QP       | 18.34            | 14.39             | 32.73                            | 40.00                     | -7.27          |
| Horizontal   | 84.00              | QP       | 15.36            | 9.13              | 24.49                            | 40.00                     | -15.51         |
| Horizontal   | 168.00             | QP       | 20.77            | 12.16             | 32.93                            | 43.50                     | -10.57         |
| Horizontal   | 180.00             | QP       | 19.67            | 13.26             | 32.93                            | 43.50                     | -10.57         |
| Horizontal   | 191.99             | PK       | 18.26            | 18.97             | 37.23                            | 43.50                     | -6.27          |
| Horizontal   | 263.77             | PK       | 20.68            | 18.89             | 39.57                            | 46.00                     | -6.43          |

Remark: Corr. Factor = Antenna Factor + Cable Loss

| Ant Polarity | Frequency<br>(MHz) | Detector | Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Reading<br>(dBuV/m) | Limit<br>@ 3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|----------|------------------|-------------------|----------------------------------|---------------------------|----------------|
| Vertical     | 60.00              | QP       | 20.33            | 12.05             | 32.38                            | 40.00                     | -7.62          |
| Vertical     | 72.00              | QP       | 18.34            | 20.77             | 39.11                            | 40.00                     | -0.89          |
| Vertical     | 168.00             | QP       | 20.77            | 16.33             | 37.10                            | 43.50                     | -6.40          |
| Vertical     | 180.00             | QP       | 19.67            | 17.54             | 37.21                            | 43.50                     | -6.29          |
| Vertical     | 191.99             | PK       | 18.26            | 23.47             | 41.73                            | 43.50                     | -1.77          |
| Vertical     | 203.63             | PK       | 18.11            | 20.69             | 38.80                            | 43.50                     | -4.70          |

Remark: Corr. Factor = Antenna Factor + Cable Loss

## TEST REPORT

### 8.4.3 Measurement results: frequency above 1GHz

|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 24         |
| Relative Humidity (%) : | 76         |
| Test date :             | 2026/08/07 |

| Mode      | Frequency (MHz) | Spectrum Analyzer Detector | Ant. Pol. (H/V) | Correction Factor (dB/m) | Reading (dBuV) | Corrected Reading (dBuV/m) | Limit @ 3 m (dBuV/m) | Margin (dB) |
|-----------|-----------------|----------------------------|-----------------|--------------------------|----------------|----------------------------|----------------------|-------------|
| DH5_Ch0   | 4804            | PK                         | H               | -1.75                    | 43.11          | 41.36                      | 74                   | -32.64      |
|           | 4804            | PK                         | V               | -1.75                    | 42.66          | 40.91                      | 74                   | -33.09      |
|           | 5985            | PK                         | V               | 3.13                     | 43.47          | 46.60                      | 74                   | -27.40      |
| DH5_Ch39  | 4882            | PK                         | H               | -1.42                    | 42.52          | 41.10                      | 74                   | -32.90      |
|           | 3330            | PK                         | V               | -8.96                    | 54.48          | 45.52                      | 74                   | -28.48      |
|           | 4882            | PK                         | V               | -1.42                    | 42.63          | 41.21                      | 74                   | -32.79      |
|           | 5985            | PK                         | V               | 3.13                     | 44.38          | 47.51                      | 74                   | -26.49      |
| DH5_Ch78  | 4960            | PK                         | H               | -1.12                    | 42.49          | 41.37                      | 74                   | -32.63      |
|           | 3315            | PK                         | V               | -9.05                    | 51.41          | 42.36                      | 74                   | -31.64      |
|           | 4960            | PK                         | V               | -1.12                    | 42.25          | 41.13                      | 74                   | -32.87      |
|           | 6000            | PK                         | V               | 3.07                     | 44.11          | 47.18                      | 74                   | -26.82      |
| 3DH5_Ch0  | 4804            | PK                         | H               | -1.75                    | 42.19          | 40.44                      | 74                   | -33.56      |
|           | 3990            | PK                         | V               | -5.57                    | 48.57          | 43.00                      | 74                   | -31.00      |
|           | 4260            | PK                         | V               | -4.25                    | 49.55          | 45.30                      | 74                   | -28.70      |
|           | 4804            | PK                         | V               | -1.75                    | 42.37          | 40.62                      | 74                   | -33.38      |
|           | 5985            | PK                         | V               | 3.13                     | 45.67          | 48.80                      | 74                   | -25.20      |
| 3DH5_Ch39 | 4882            | PK                         | H               | -1.42                    | 42.35          | 40.93                      | 74                   | -33.07      |
|           | 4245            | PK                         | V               | -4.41                    | 49.75          | 45.34                      | 74                   | -28.66      |
|           | 4882            | PK                         | V               | -1.42                    | 42.35          | 40.93                      | 74                   | -33.07      |
|           | 5325            | PK                         | V               | 0.29                     | 44.83          | 45.12                      | 74                   | -28.88      |
|           | 5985            | PK                         | V               | 3.13                     | 43.36          | 46.49                      | 74                   | -27.51      |
| 3DH5_Ch78 | 4960            | PK                         | H               | -1.12                    | 42.10          | 40.98                      | 74                   | -33.02      |
|           | 3330            | PK                         | V               | -8.96                    | 53.89          | 44.93                      | 74                   | -29.07      |
|           | 3990            | PK                         | V               | -5.57                    | 52.47          | 46.90                      | 74                   | -27.10      |
|           | 4960            | PK                         | V               | -1.12                    | 43.50          | 42.38                      | 74                   | -31.62      |
|           | 5970            | PK                         | V               | 3.17                     | 44.96          | 48.13                      | 74                   | -25.87      |
|           | 6645            | PK                         | V               | 5.84                     | 43.00          | 48.84                      | 74                   | -25.16      |

Remark: 1. Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre\_Amplifier Gain  
2. The emissions were very low against the limit above 18 GHz.

## 9. Emission on Band Edge

### 9.1 Instrument Setting

| Spectrum Function | Setting                                      |
|-------------------|----------------------------------------------|
| Detector          | Peak and Average                             |
| RBW               | 1MHz                                         |
| VBW               | 3MHz & 1/T Minimum VBW                       |
| Sweep             | Auto couple                                  |
| Restrict bands    | 2310 MHz ~ 2390 MHz<br>2483.5 MHz ~ 2500 MHz |
| Attenuation       | Auto                                         |

### 9.2 Test Procedure

The test procedure is the same as Emissions in Restricted Frequency Bands (Radiated emission measurements).

### 9.3 Operating Environment Condition

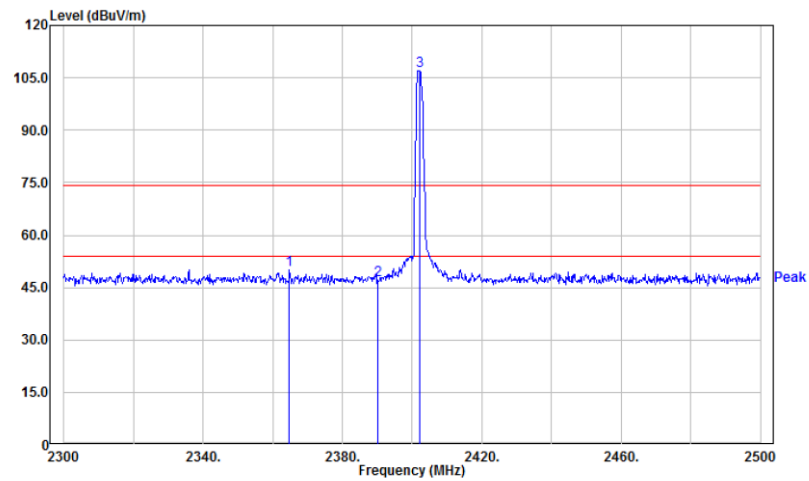
|                         |            |
|-------------------------|------------|
| Temperature (°C) :      | 24         |
| Relative Humidity (%) : | 76         |
| Test date :             | 2026/07/20 |

## 9.4 Test Results

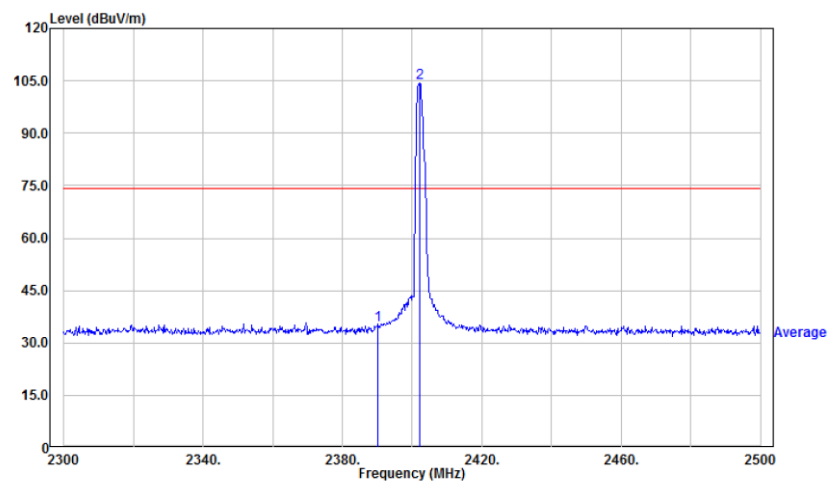
| Mode | Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Ant.<br>Pol.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Reading<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV/m) | Margin<br>(dB) | Restricted<br>band<br>(MHz) |
|------|--------------------|----------------------------------|-----------------------|--------------------------------|-------------------|----------------------------------|----------------------------|----------------|-----------------------------|
| DH5  | 2364.80            | PK                               | H                     | 35.93                          | 14.01             | 49.94                            | 74                         | -24.06         | 2310~2390                   |
|      | 2390.00            | AV                               | H                     | 35.82                          | -0.54             | 35.28                            | 54                         | -18.72         |                             |
|      | 2483.50            | PK                               | H                     | 35.80                          | 13.23             | 49.03                            | 74                         | -24.97         | 2483.5~2500                 |
|      | 2483.50            | AV                               | H                     | 35.80                          | 4.59              | 40.39                            | 54                         | -13.61         |                             |
| 3DH5 | 2364.40            | PK                               | H                     | 35.93                          | 13.41             | 49.34                            | 74                         | -24.66         | 2310~2390                   |
|      | 2390.00            | AV                               | H                     | 35.82                          | -2.82             | 33.00                            | 54                         | -21.00         |                             |
|      | 2483.50            | PK                               | H                     | 35.80                          | 13.97             | 49.77                            | 74                         | -24.23         | 2483.5~2500                 |
|      | 2483.50            | AV                               | H                     | 35.80                          | 3.10              | 38.90                            | 54                         | -15.10         |                             |

Remark: Correction Factor = Antenna Factor + Cable Loss

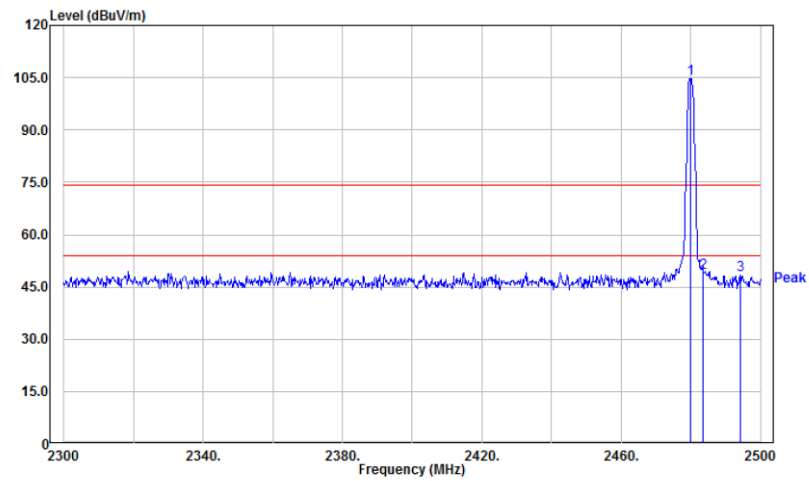
### Chain0 : Restricted Band Bandedge @ BTC DH5 CH0 PK



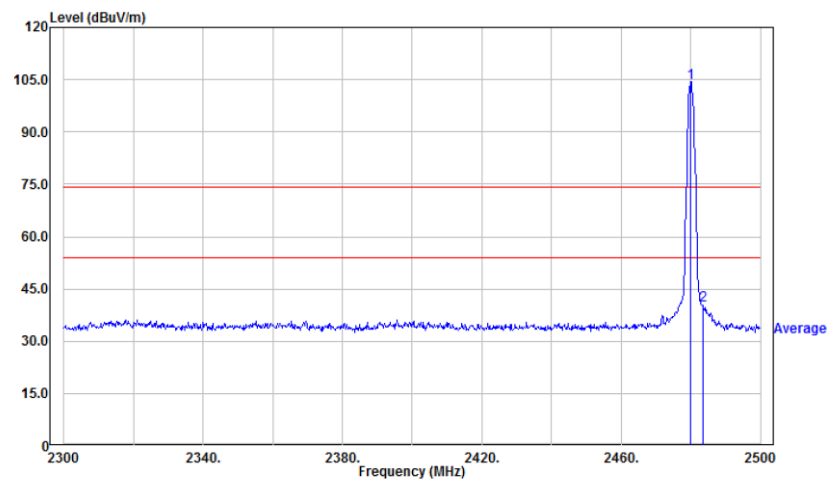
### Chain0 : Restricted Band Bandedge @ BTC DH5 CH0 AV



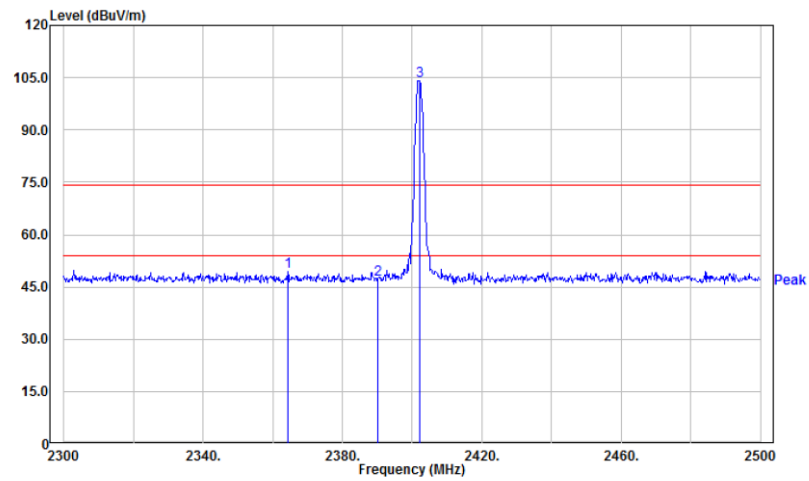
### Chain0 : Restricted Band Bandedge @ BTC DH5 CH78 PK



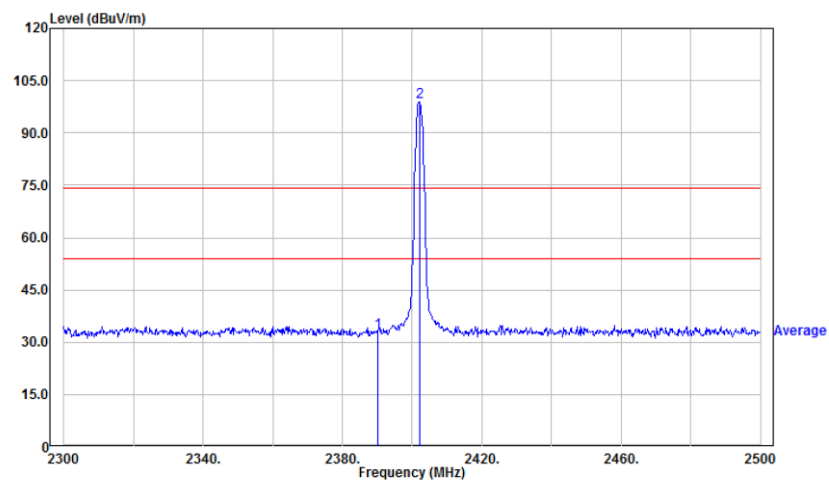
### Chain0 : Restricted Band Bandedge @ BTC DH5 CH78 AV



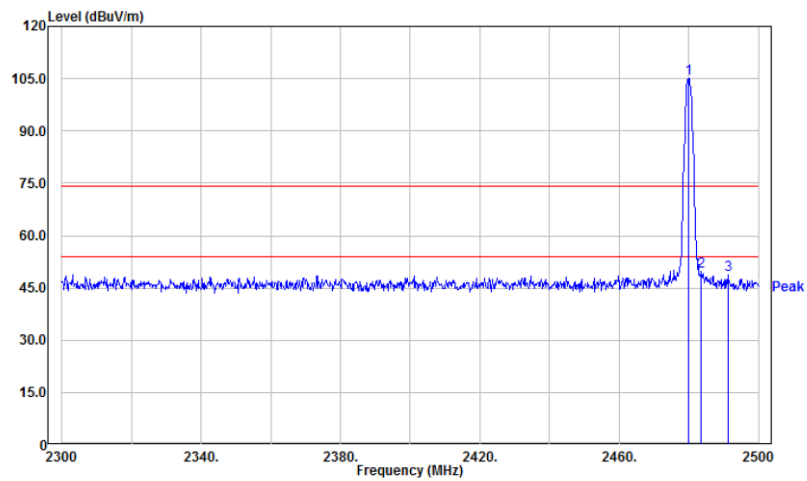
### Chain0 : Restricted Band Bandedge @ BTC 3DH5 CH0 PK



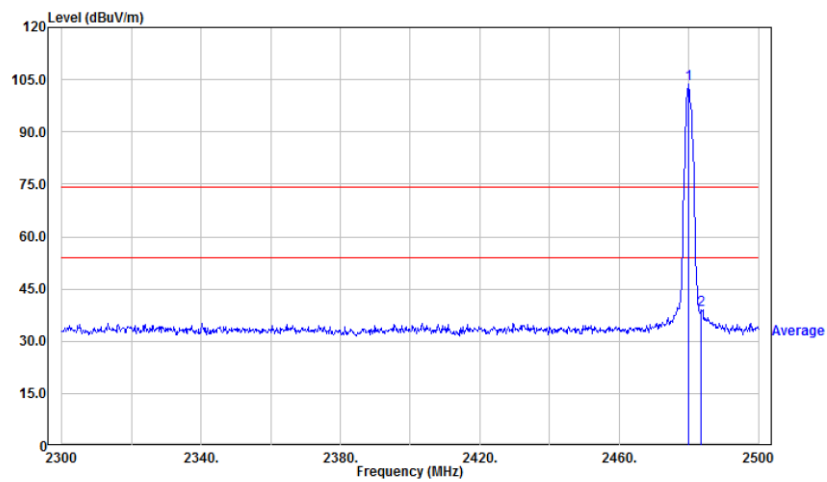
### Chain0 : Restricted Band Bandedge @ BTC 3DH5 CH0 AV



### Chain0 : Restricted Band Bandedge @ BTC 3DH5 CH78 PK



### Chain0 : Restricted Band Bandedge @ BTC 3DH5 CH78 AV



## 10. AC Power Line Conducted Emission

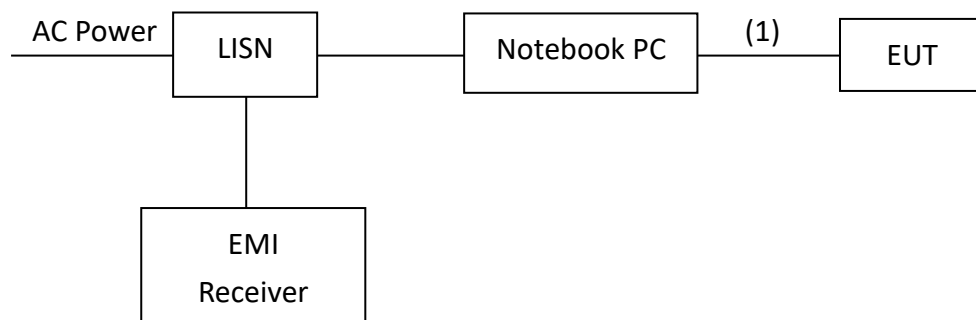
### 10.1 Measuring instrument setting

| Receiver Function | Setting |
|-------------------|---------|
| Detector          | QP      |
| Start frequency   | 0.15MHz |
| Stop frequency    | 30MHz   |
| IF bandwidth      | 9 kHz   |
| Attenuation       | 10dB    |

### 10.2 Test Procedure

|        |                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Step 1 | Configure the EUT according to ANSI C63.10-2020. The EUT or host of EHT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface. |
| Step 2 | Connect EUT or host of EUT to the power mains through a line impedance stabilization network.                                                                                                                                 |
| Step 3 | All the companion devices are connected to the other LISN. The LISN should provide 50Uh/50ohms coupling impedance.                                                                                                            |
| Step 4 | The frequency range from 150 kHz to 30MHz was searched.                                                                                                                                                                       |
| Step 5 | Set the test-receiver system to peak detector and specified bandwidth with maximum hold mode.                                                                                                                                 |
| Step 6 | The measurement has to be done between each power line and ground at the power terminal.                                                                                                                                      |

### 10.3 Test Diagram



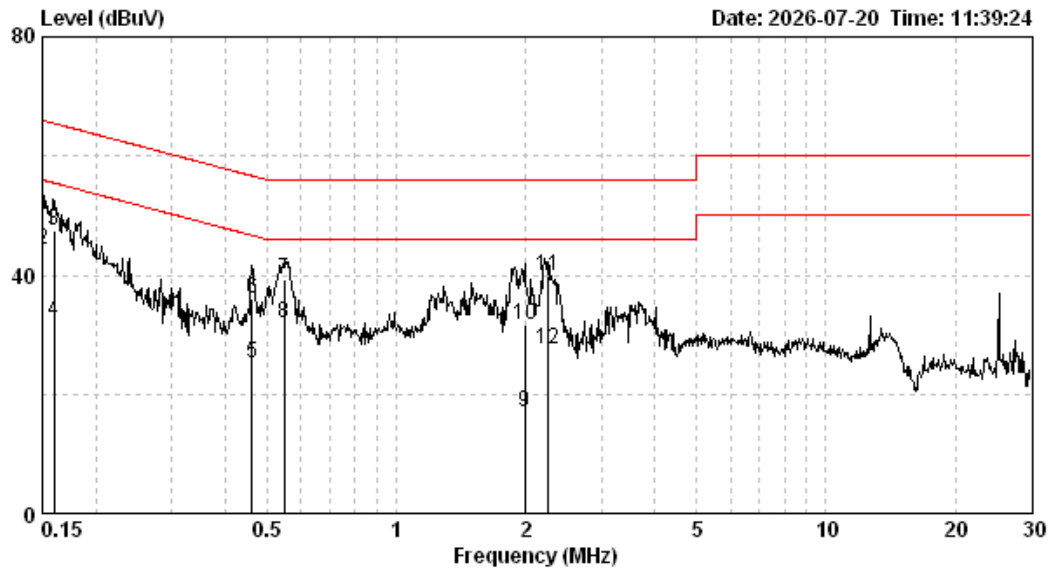
(1) USB 2.0 × 1 m unshielded cable

**10.4 Limit**

| Frequency<br>(MHz) | Conducted Limit (dBuV) |          |
|--------------------|------------------------|----------|
|                    | Quasi Peak             | Average  |
| 0.15 to 0.50       | 66 to 56               | 56 to 46 |
| 0.50 to 5.00       | 56                     | 46       |
| 5.00 to 30.0       | 60                     | 50       |

## TEST REPORT

### 10.5 Test Results

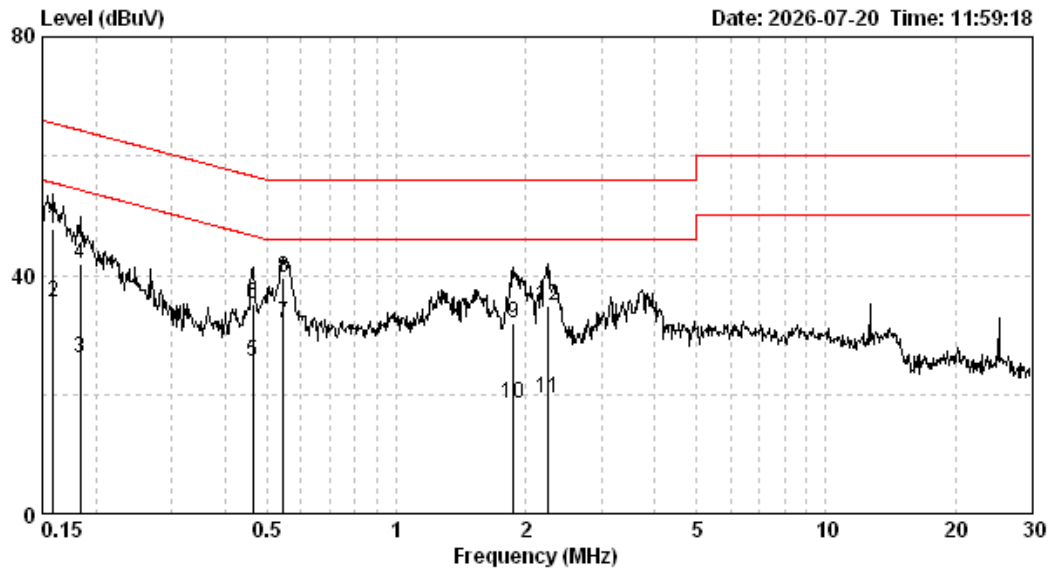


Test voltage : AC 120V / 60Hz  
 Temp. / R.H. : 21°C / 55%RH  
 Atmospheric pressure : 1014 hPa

| Phase | Frequency (MHz) | Corr. Factor (dB) | Reading QP (dBuV) | Level QP (dBuV) | Limit QP (dBuV) | Reading AV (dBuV) | Level AV (dBuV) | Limit AV (dBuV) | Margin (dB) |        |
|-------|-----------------|-------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------|--------|
|       |                 |                   |                   |                 |                 |                   |                 |                 | QP          | AV     |
| LINE  | 0.150           | 9.67              | 34.62             | 44.29           | 66.00           | 17.41             | 27.08           | 56.00           | -21.71      | -28.92 |
| LINE  | 0.160           | 9.67              | 37.92             | 47.59           | 65.47           | 22.68             | 32.35           | 55.47           | -17.88      | -23.12 |
| LINE  | 0.461           | 9.77              | 26.32             | 36.09           | 56.67           | 15.31             | 25.08           | 46.67           | -20.58      | -21.59 |
| LINE  | 0.549           | 9.78              | 29.50             | 39.28           | 56.00           | 22.03             | 31.81           | 46.00           | -16.72      | -14.19 |
| LINE  | 1.991           | 9.93              | 21.82             | 31.75           | 56.00           | 7.15              | 17.08           | 46.00           | -24.25      | -28.92 |
| LINE  | 2.261           | 9.93              | 29.84             | 39.77           | 56.00           | 17.56             | 27.49           | 46.00           | -16.23      | -18.51 |

#### Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)



Test voltage : AC 120 / 60Hz  
 Temp. / R.H. : 21°C / 55%RH  
 Atmospheric pressure : 1014 hPa

| Phase   | Frequency (MHz) | Corr. Factor (dB) | Reading QP (dBuV) | Level QP (dBuV) | Limit QP (dBuV) | Reading AV (dBuV) | Level AV (dBuV) | Limit AV (dBuV) | Margin (dB) |        |
|---------|-----------------|-------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------|--------|
|         |                 |                   |                   |                 |                 |                   |                 |                 | QP          | AV     |
| NEUTRAL | 0.159           | 9.68              | 37.94             | 47.62           | 65.52           | 25.65             | 35.33           | 55.52           | -17.89      | -20.18 |
| NEUTRAL | 0.183           | 9.69              | 32.12             | 41.81           | 64.33           | 16.31             | 26.00           | 54.33           | -22.52      | -28.33 |
| NEUTRAL | 0.464           | 9.77              | 25.50             | 35.27           | 56.63           | 15.82             | 25.59           | 46.63           | -21.35      | -21.03 |
| NEUTRAL | 0.546           | 9.79              | 29.64             | 39.43           | 56.00           | 22.07             | 31.86           | 46.00           | -16.57      | -14.14 |
| NEUTRAL | 1.878           | 9.91              | 22.02             | 31.93           | 56.00           | 8.63              | 18.54           | 46.00           | -24.07      | -27.46 |
| NEUTRAL | 2.261           | 9.93              | 24.88             | 34.81           | 56.00           | 9.38              | 19.31           | 46.00           | -21.19      | -26.69 |

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)

### Appendix A: Test equipment list

| Test Equipment/<br>Test site         | Brand         | Model No.                | Serial No.   | Calibration<br>Date | Next<br>Calibration<br>Date |
|--------------------------------------|---------------|--------------------------|--------------|---------------------|-----------------------------|
| Pre-Amplifier                        | SGH           | SGH118                   | 20220105-1   | 2025/12/15          | 2026/12/14                  |
| Broadband Antenna                    | SCHWARZBECK   | VULB 9168                | 9168-172     | 2025/12/15          | 2026/12/14                  |
| 966-2_3m<br>Semi-Anechoic<br>Chamber | CHANCE MOST   | CEM-966_2                | N/A          | 2026/07/28          | 2027/07/27                  |
| Horn Antenna                         | SCHWARZBECK   | BBHA 9170                | BBHA9170159  | 2026/07/21          | 2027/07/20                  |
| Horn Antenna                         | SCHWARZBECK   | BBHA 9120 D              | 9120D-456    | 2025/12/02          | 2026/12/01                  |
| Power Meter                          | Anritsu       | ML2495A                  | 0844001      | 2025/11/28          | 2026/11/27                  |
| Power Sensor                         | Anritsu       | MA2491A                  | 031543       | 2025/11/28          | 2026/11/27                  |
| Cable                                | SUHNER        | SUCOFLEX 104             | 295105/4     | 2026/02/26          | 2027/02/25                  |
| Cable                                | SUHNER        | SUCOFLEX 104P            | CB0005       | 2026/02/26          | 2027/02/25                  |
| Signal Analyzer                      | Agilent       | N9030A                   | MY51380492   | 2026/01/20          | 2027/01/19                  |
| Band Pass Filter                     | Reactel       | 7HS-3G/18G-S11           | N/A          | 2026/05/20          | 2027/05/19                  |
| Active Loop<br>Antenna               | SCHWARZBECK   | FMZB1519                 | 1519-067     | 2025/11/17          | 2026/11/16                  |
| Attenuator                           | Mini-Circuits | BW-S20W5+                | N/A          | 2026/05/20          | 2027/05/19                  |
| Pre-amplifier                        | SGH           | SGH184                   | 20201124-1   | 2025/11/25          | 2026/11/24                  |
| RF Cable                             | SUHNER        | SUCOFLEX 104P            | 9403 / 4P    | 2025/11/21          | 2026/11/20                  |
| Spectrum analyzer                    | KEYSIGHT      | N9020B                   | MY63450146   | 2026/01/30          | 2027/01/29                  |
| EMI Test Receiver                    | KEYSIGHT      | N9038B                   | MY63060107   | 2026/01/14          | 2027/01/13                  |
| Test software                        | Audix         | e3                       | V9           | NCR                 | NCR                         |
| EMI Test Receiver                    | R&S           | ESCI                     | 100018       | 2026/06/17          | 2027/06/16                  |
| LISN                                 | R&S           | ENV216                   | 101160       | 2026/06/16          | 2027/06/15                  |
| Cable                                | SUHNER        | EMCCFD300-BM-<br>NM-6000 | 170502       | 2026/06/22          | 2027/06/21                  |
| Test software                        | Audix         | e3                       | V4.20040112L | NCR                 | NCR                         |
| Test site                            | Intertek      | Con-2                    | N/A          | NCR                 | NCR                         |

Note: No Calibration Required (NCR).

## Appendix B: Measurement Uncertainty

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

| Item                                                                                                         | Uncertainty |
|--------------------------------------------------------------------------------------------------------------|-------------|
| Radiated disturbances from 9kHz~30MHz in a semi-anechoic chamber at a distance of 3m                         | 2.73 dB     |
| Vertically polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m    | 3.91 dB     |
| Horizontally polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m  | 3.49 dB     |
| Vertically polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m    | 3.71 dB     |
| Horizontally polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m  | 3.71 dB     |
| Vertically polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m   | 3.26 dB     |
| Horizontally polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m | 3.26 dB     |
| Conducted Measurement                                                                                        | 0.69 dB     |
| AC Power Line Conducted Emission                                                                             | 1.31 dB     |