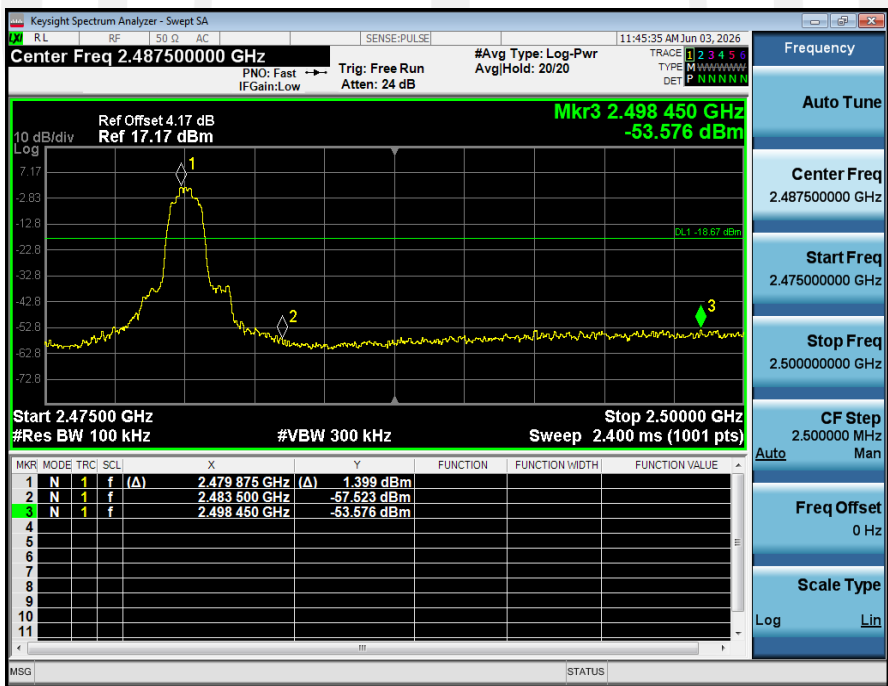


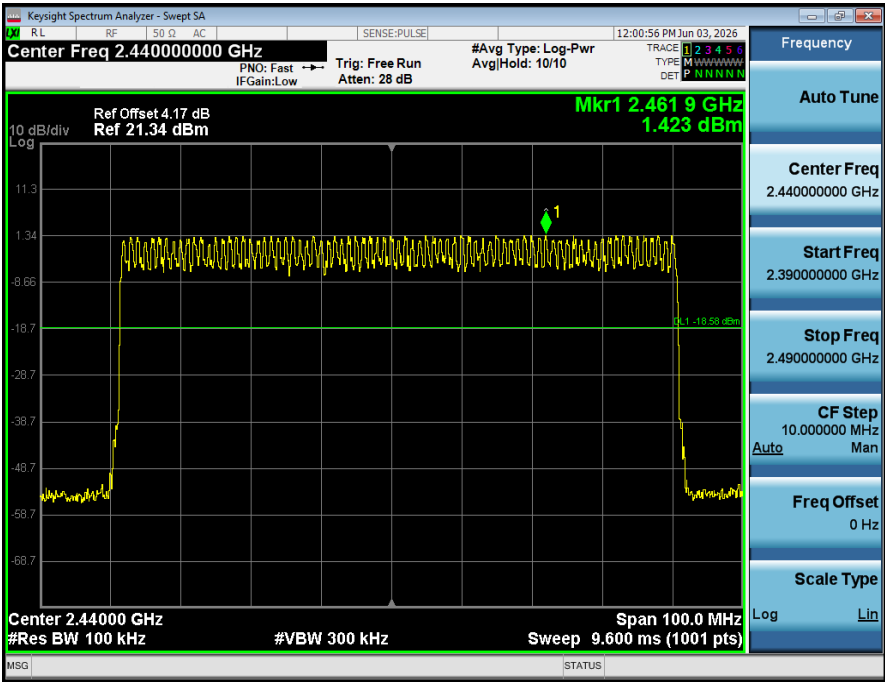
1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2480\_00



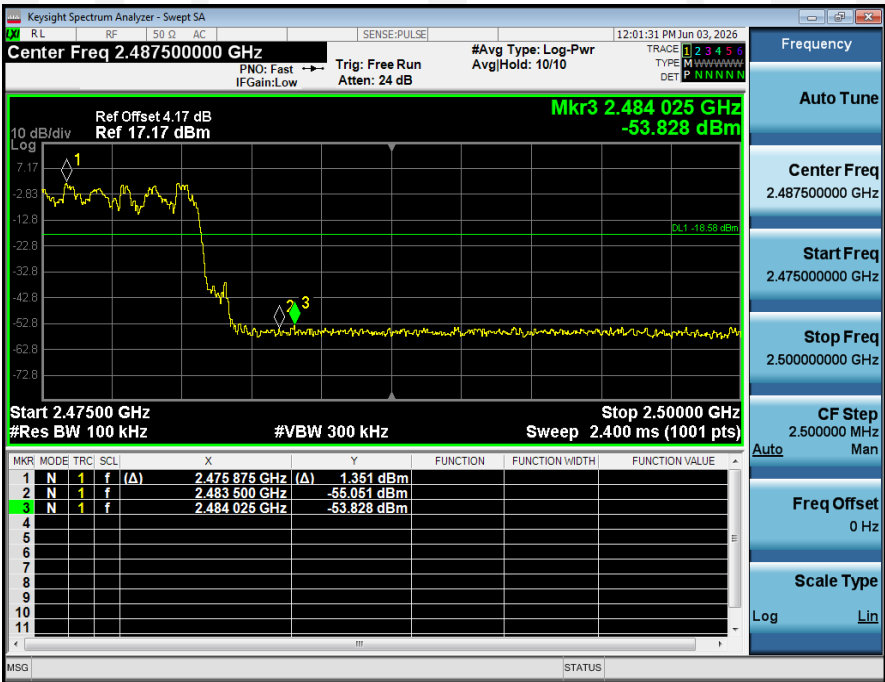
2\_Bandedge\_NVNT\_ANT1\_3-DH1\_2480\_00



1\_Reference\_Level\_Hopping\_NVNT\_ANT1\_3-DH1\_Hopping



2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping



**Conducted spurious emission: Pass**

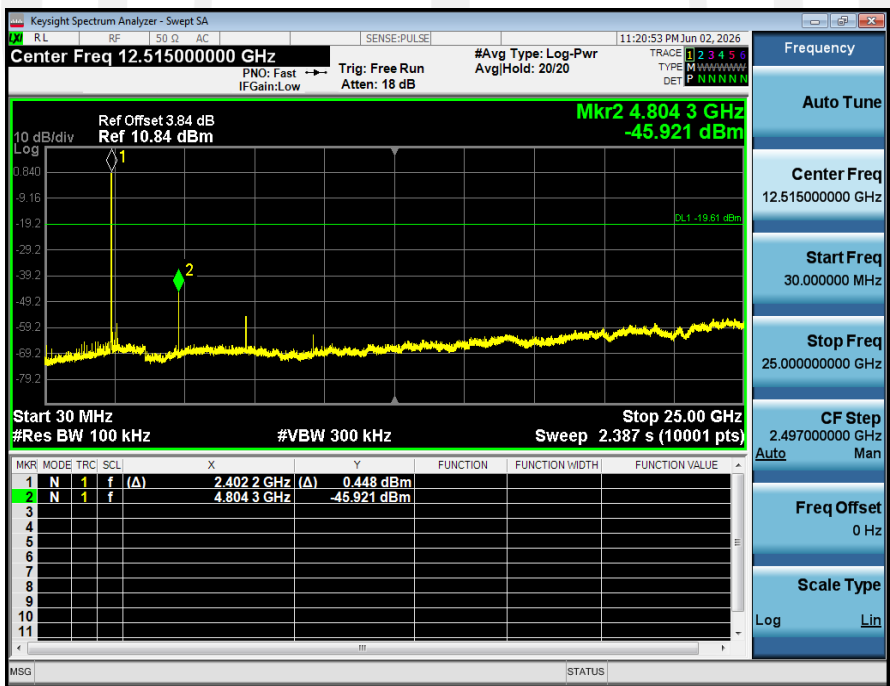
| Condition | Antenna | Modulation | TX Mode | Ref_level(dBm) | Spurious<br>MAX.Value(dBm) | Limit(dBm) | Result |
|-----------|---------|------------|---------|----------------|----------------------------|------------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00 | 0.385          | -45.921                    | -19.615    | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2441.00 | 1.014          | -44.010                    | -18.986    | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00 | 1.137          | -45.296                    | -18.863    | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00 | 0.464          | -45.292                    | -19.536    | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00 | 1.122          | -46.275                    | -18.878    | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00 | 1.220          | -46.334                    | -18.780    | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00 | 0.512          | -47.155                    | -19.488    | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00 | 1.146          | -48.781                    | -18.854    | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00 | 1.332          | -47.358                    | -18.668    | Pass   |



1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2402\_00



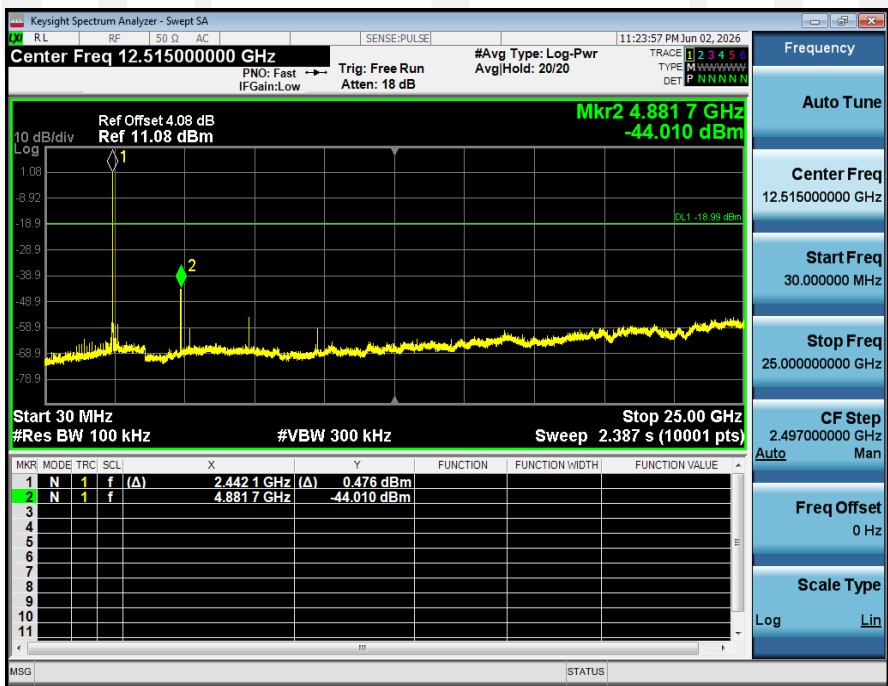
2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2402\_00



1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2441\_00



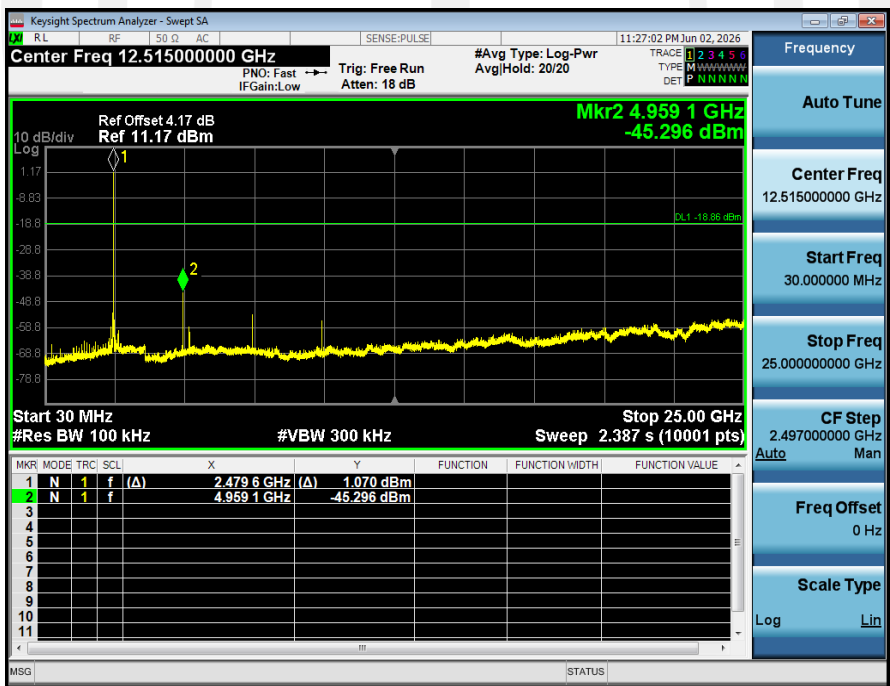
2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2441\_00



1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2480\_00



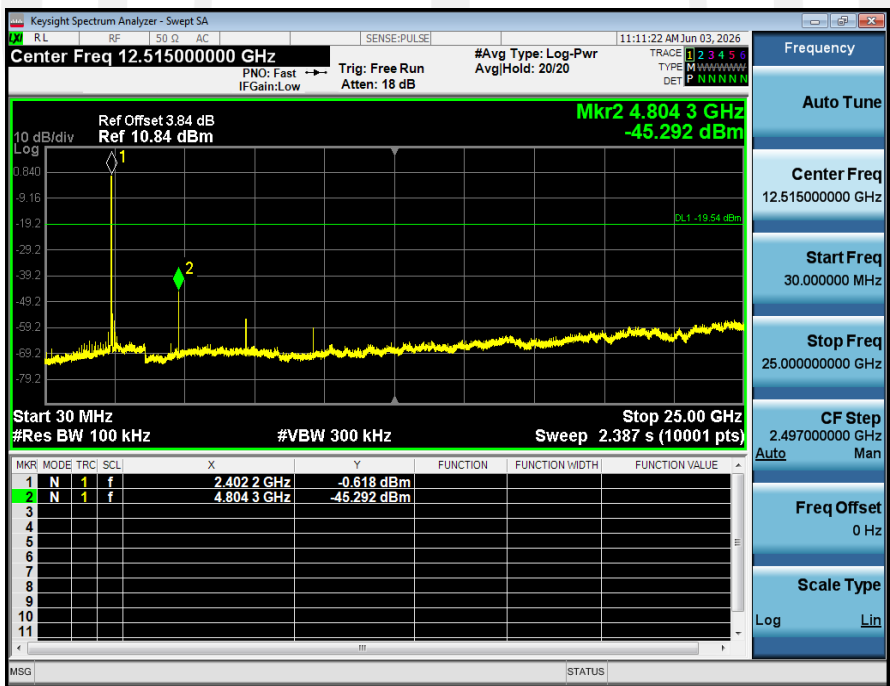
2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2480\_00



1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2402\_00



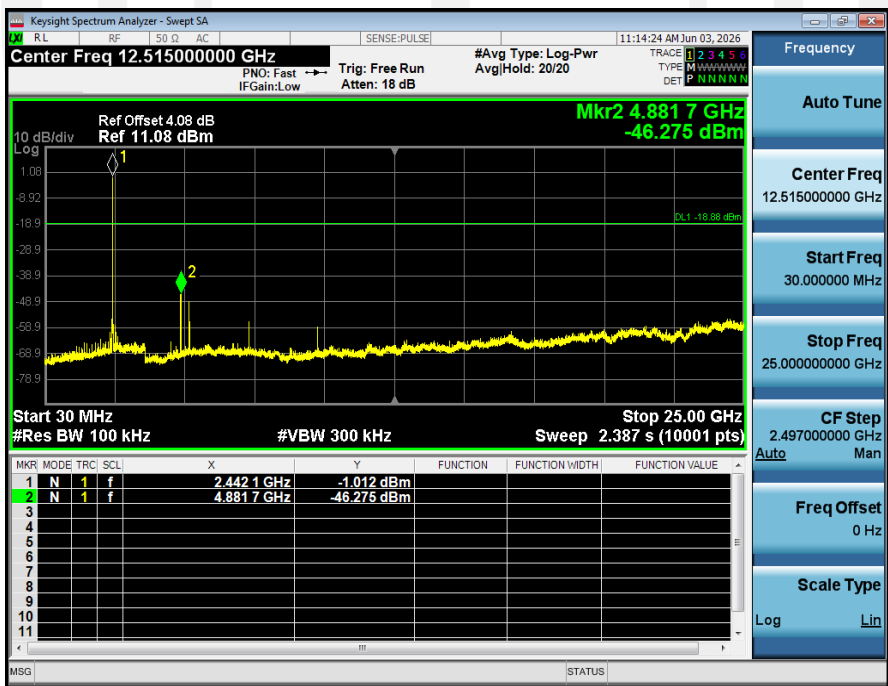
2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2402\_00



1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2441\_00



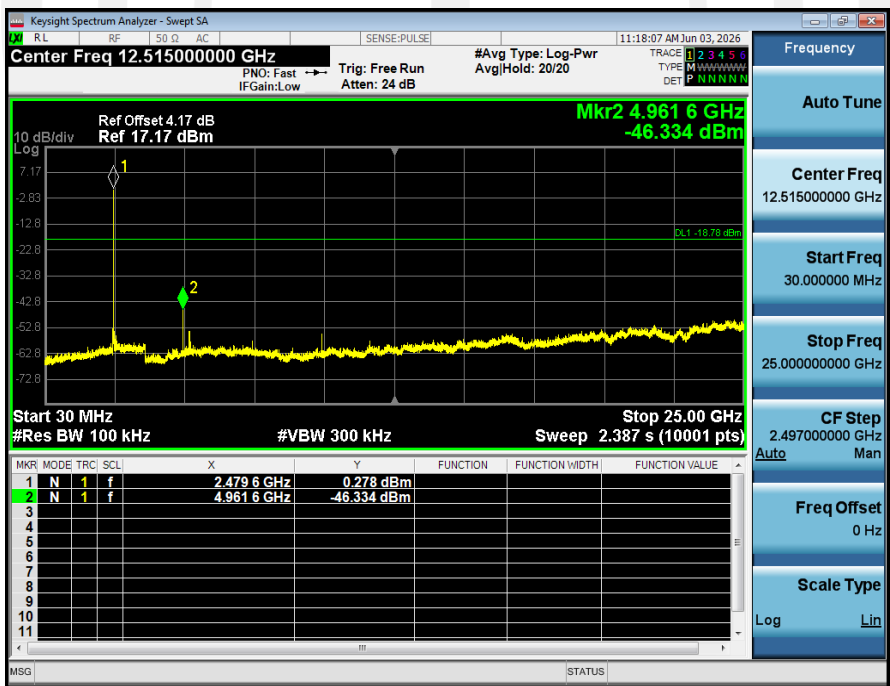
2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2441\_00



1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2480\_00



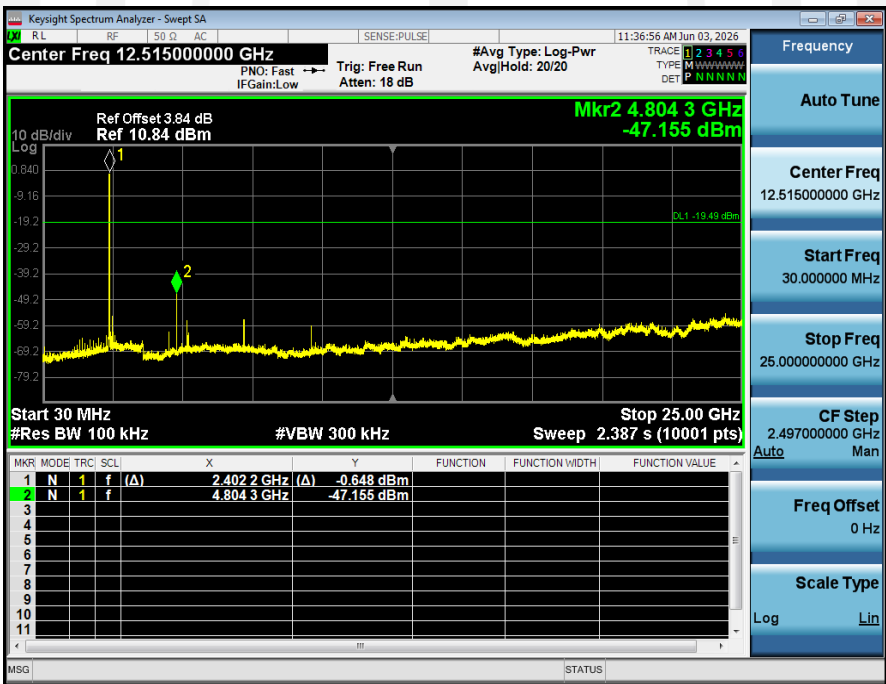
2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2480\_00



1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2402\_00



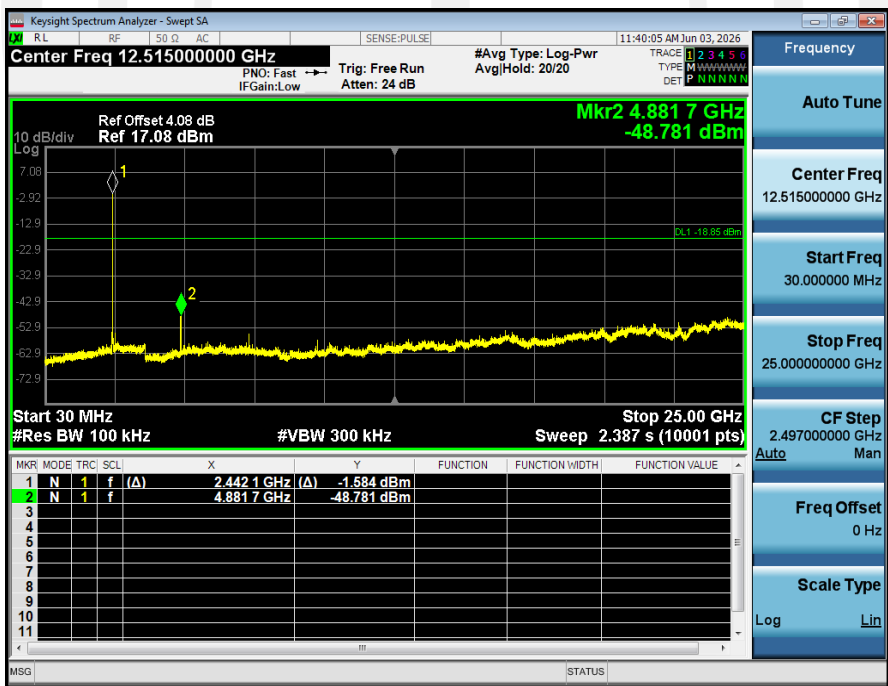
2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2402\_00



1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2441\_00



2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2441\_00



1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2480\_00



2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2480\_00



## 9. Spurious Emission

### 9.1. Test Limits

| Frequency (MHz) | Field strength<br>(microvolts/meter) | Measurement<br>distance (meters) |
|-----------------|--------------------------------------|----------------------------------|
| 0.009-0.490     | 2400/F(kHz)                          | 300                              |
| 0.490-1.705     | 24000/F(kHz)                         | 30                               |
| 1.705-30.0      | 30                                   | 30                               |
| 30-88           | 100 **                               | 3                                |
| 88-216          | 150 **                               | 3                                |
| 216-960         | 200 **                               | 3                                |
| Above 960       | 500                                  | 3                                |

Note: The peak limit is 20 dB higher than the average limit

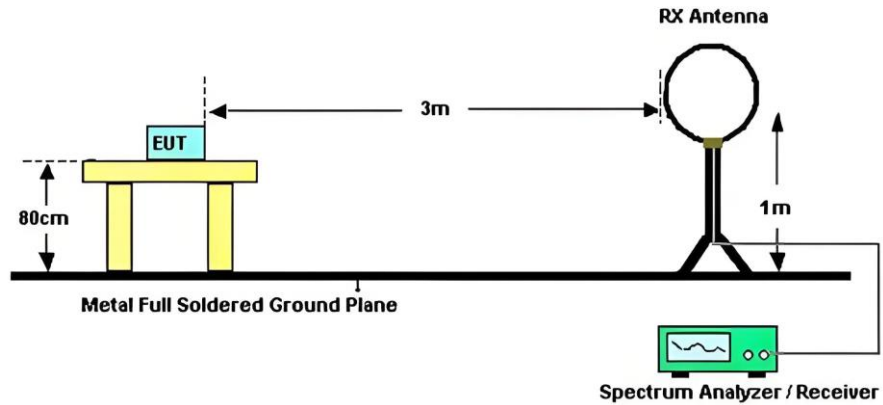
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 15.205 Restricted frequency band

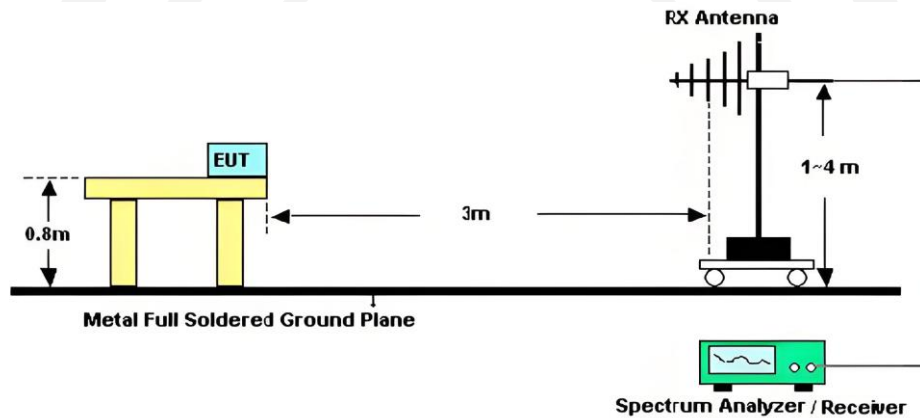
| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 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      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 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> ) |

## 9.2. Block Diagram of Test setup

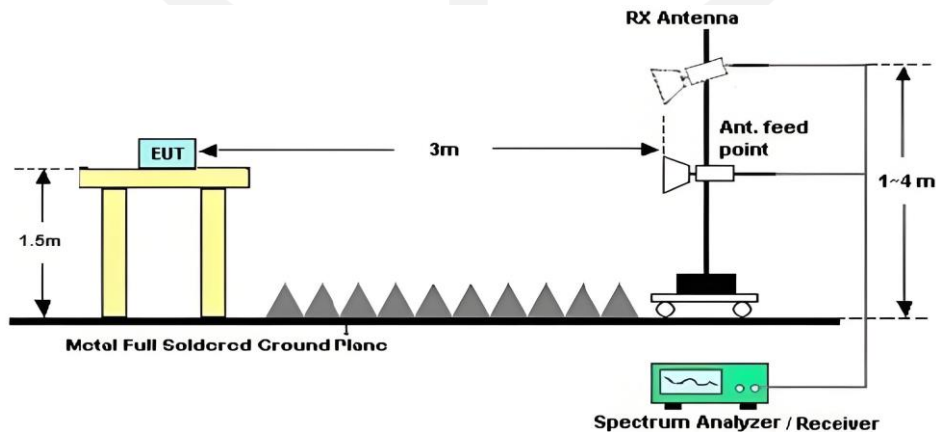
a. In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



b. In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



c. In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



### 9.3. Test Procedure

- (1) The test equipment is placed on a non-metallic tabletop. For false radiation emission tests below 1G, the distance between the equipment and the ground surface is 80 cm; for false radiation emission tests above 1G, the distance is 1.5 meters. The equipment is situated within a semi-anechoic chamber.
- (2) Setup EUT and simulator
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
  - (a) Change work frequency or channel of device if practicable.
  - (b) Change modulation type of device if practicable.
  - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m 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 equipments and all of the interface cables were changed according to ANSI C63.10-2020+Cor.1-2023 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

Test setup information:

|              |            |            |
|--------------|------------|------------|
| 9KHz~150KHz  | RBW 200Hz  | VBW 1KHz   |
| 150KHz~30MHz | RBW 9KHz   | VBW 30KHz  |
| 30MHz~1GHz   | RBW 120KHz | VBW 300KHz |
| Above1GHz    | RBW 1MHz   | VBW 3MHz   |

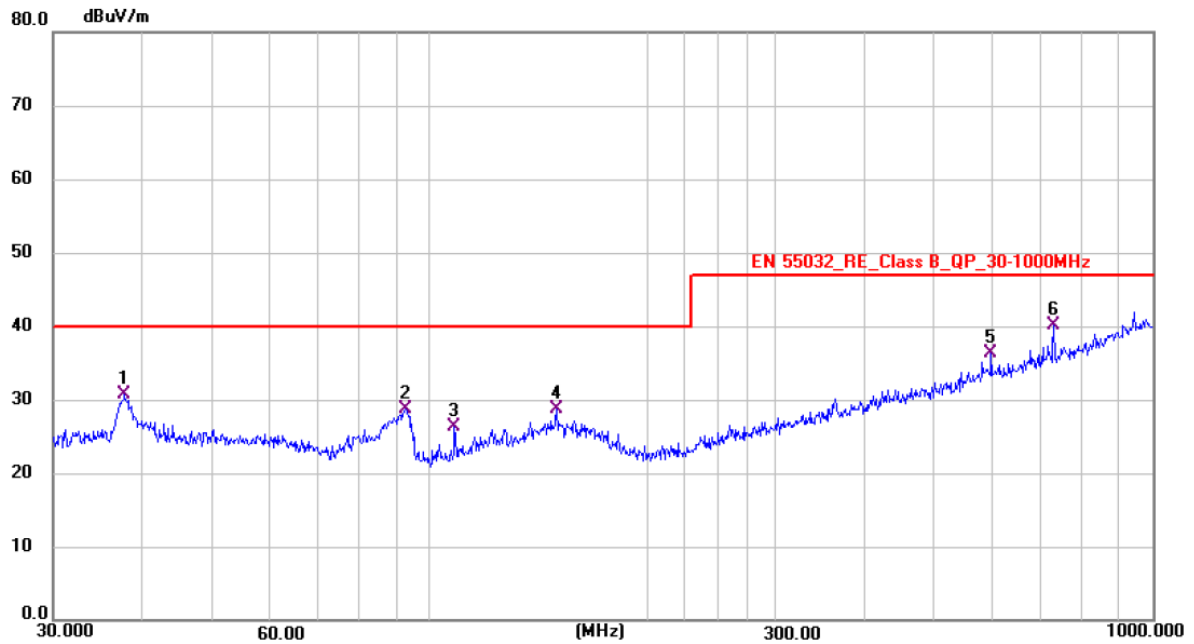
#### 9.4. Test Results

We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency.

Detailed information please see the following page.

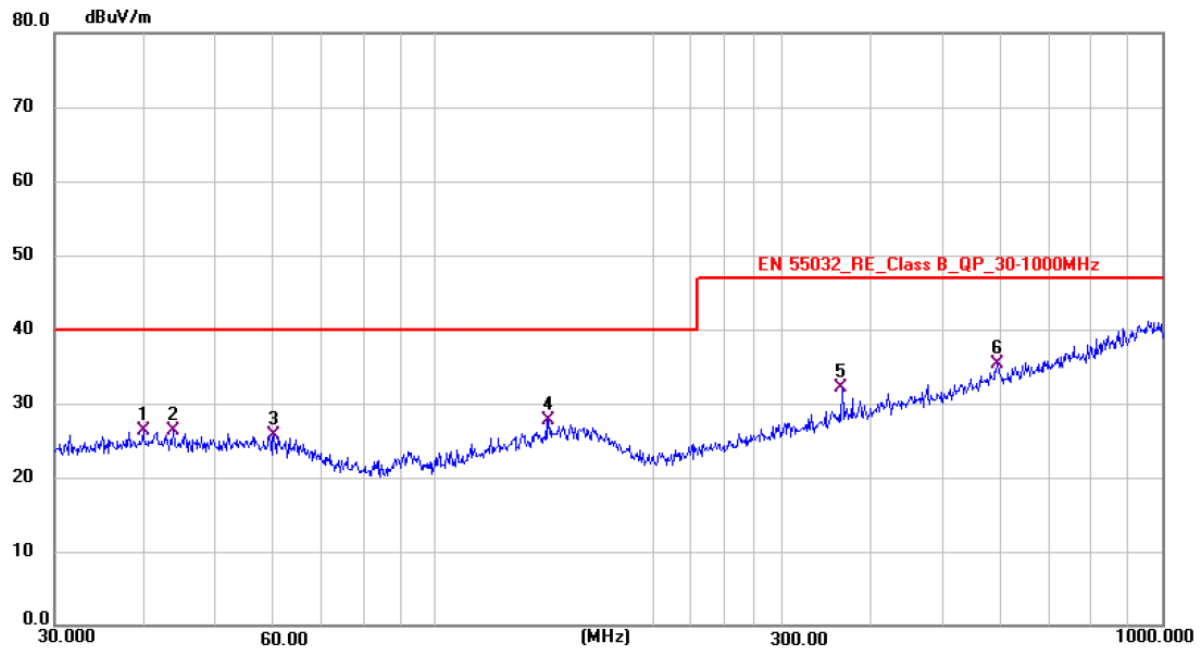
|                             |                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| From 9KHz to 30MHz:         |                                                                                                                                    |
| Test Date : 2026.06.05      | Temperature : 26°C                                                                                                                 |
| Test Engineer : Felix Pang  | Humidity : 54%                                                                                                                     |
| Test Mode : GFSK mode       |                                                                                                                                    |
| Test Voltage : AC 120V/60HZ |                                                                                                                                    |
| Test Results : <b>PASS</b>  |                                                                                                                                    |
| Note:                       | The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From 30MHz to 1000MHz:      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Date : 2026.06.05      | Temperature : 26°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Engineer : Felix Pang  | Humidity : 54%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Mode : GFSK mode       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Voltage : AC 120V/60HZ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Results : <b>PASS</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Note:                       | <ol style="list-style-type: none"> <li>1. The test results are listed in next pages.</li> <li>2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.</li> <li>3. All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.</li> </ol> |

**Polarization: Vertical**

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 37.6963         | 16.75          | 13.95         | 30.70          | 40.00          | -9.30       | QP       |
| 2   | 92.5434         | 18.20          | 10.44         | 28.64          | 40.00          | -11.36      | QP       |
| 3   | 107.9823        | 14.52          | 11.80         | 26.32          | 40.00          | -13.68      | QP       |
| 4   | 149.9451        | 13.49          | 15.22         | 28.71          | 40.00          | -11.29      | QP       |
| 5   | 598.2713        | 14.31          | 22.03         | 36.34          | 47.00          | -10.66      | QP       |
| 6 * | 729.6780        | 15.94          | 24.24         | 40.18          | 47.00          | -6.82       | QP       |

Note: Level = Reading + Factor Margin = Level - Limit

**Polarization: Horizontal**

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 39.7844         | 12.06          | 14.25         | 26.31          | 40.00          | -13.69      | QP       |
| 2   | 43.7160         | 12.27          | 14.00         | 26.27          | 40.00          | -13.73      | QP       |
| 3   | 60.0691         | 12.49          | 13.25         | 25.74          | 40.00          | -14.26      | QP       |
| 4   | 143.4517        | 12.98          | 14.73         | 27.71          | 40.00          | -12.29      | QP       |
| 5   | 364.0999        | 15.34          | 16.85         | 32.19          | 47.00          | -14.81      | QP       |
| 6 * | 594.3508        | 13.26          | 21.95         | 35.21          | 47.00          | -11.79      | QP       |

Note: Level = Reading + Factor Margin = Level - Limit

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From 1GHz to 25GHz:                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Date : 2026.06.05                      | Temperature : 26℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Engineer : Felix Pang                  | Humidity : 54%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Mode : GFSK, $\pi/4$ DQPSK, 8DPSK mode |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Voltage : AC 120V/60HZ                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Results : <b>PASS</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Note:                                       | <ol style="list-style-type: none"><li>1. The test results are listed in next pages.</li><li>2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.</li><li>3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</li></ol> |

| Test Mode : GFSK TX Low                                                                                                                                                                                                            |          |          |                  |                |                 |                |        |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| No.                                                                                                                                                                                                                                | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                  | 4804     | V        | 60.03            | -13.25         | 46.78           | 74.00          | -27.22 | Peak   |
| 2                                                                                                                                                                                                                                  | 4804     | V        | 50.58            | -13.25         | 37.33           | 54.00          | -16.67 | Avg    |
| 3                                                                                                                                                                                                                                  | 7206     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9608     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4804     | H        | 54.44            | -13.25         | 41.19           | 74.00          | -32.81 | Peak   |
| 6                                                                                                                                                                                                                                  | 4804     | H        | 48.16            | -13.25         | 34.91           | 54.00          | -19.09 | Avg    |
| 7                                                                                                                                                                                                                                  | 7206     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9608     | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : GFSK TX Mid                                                                                                                                                                                                            |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                  | 4882     | V        | 56.59            | -12.98         | 43.61           | 74.00          | -30.39 | Peak   |
| 2                                                                                                                                                                                                                                  | 4882     | V        | 49.24            | -12.98         | 36.26           | 54.00          | -17.74 | Avg    |
| 3                                                                                                                                                                                                                                  | 7323     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9764     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4882     | H        | 55.27            | -12.98         | 42.29           | 74.00          | -31.71 | Peak   |
| 6                                                                                                                                                                                                                                  | 4882     | H        | 45.04            | -12.98         | 32.06           | 54.00          | -21.94 | Avg    |
| 7                                                                                                                                                                                                                                  | 7323     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9764     | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : GFSK TX High                                                                                                                                                                                                           |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                  | 4960     | V        | 59.32            | -12.70         | 46.62           | 74.00          | -27.38 | Peak   |
| 2                                                                                                                                                                                                                                  | 4960     | V        | 50.32            | -12.70         | 37.62           | 54.00          | -16.38 | Avg    |
| 3                                                                                                                                                                                                                                  | 7440     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9920     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4960     | H        | 55.65            | -12.70         | 42.95           | 74.00          | -31.05 | Peak   |
| 6                                                                                                                                                                                                                                  | 4960     | H        | 47.31            | -12.70         | 34.61           | 54.00          | -19.39 | Avg    |
| 7                                                                                                                                                                                                                                  | 7440     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9920     | --       | --               | --             | --              | --             | --     | --     |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor. Margin= Result-Limit. |          |          |                  |                |                 |                |        |        |

| Test Mode : $\pi/4$ DQPSK TX Low                                                                                                                                                                                                   |          |          |                  |                |                 |                |        |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| No.                                                                                                                                                                                                                                | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                  | 4804     | V        | 59.99            | -13.25         | 46.74           | 74.00          | -27.26 | Peak   |
| 2                                                                                                                                                                                                                                  | 4804     | V        | 46.74            | -13.25         | 33.49           | 54.00          | -20.51 | Avg    |
| 3                                                                                                                                                                                                                                  | 7206     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9608     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4804     | H        | 56.46            | -13.25         | 43.21           | 74.00          | -30.79 | Peak   |
| 6                                                                                                                                                                                                                                  | 4804     | H        | 48.60            | -13.25         | 35.35           | 54.00          | -18.65 | Avg    |
| 7                                                                                                                                                                                                                                  | 7206     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9608     | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : $\pi/4$ DQPSK TX Mid                                                                                                                                                                                                   |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                  | 4882     | V        | 59.82            | -12.98         | 46.84           | 74.00          | -27.16 | Peak   |
| 2                                                                                                                                                                                                                                  | 4882     | V        | 50.28            | -12.98         | 37.30           | 54.00          | -16.70 | Avg    |
| 3                                                                                                                                                                                                                                  | 7323     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9764     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4882     | H        | 58.21            | -12.98         | 45.23           | 74.00          | -28.77 | Peak   |
| 6                                                                                                                                                                                                                                  | 4882     | H        | 44.72            | -12.98         | 31.74           | 54.00          | -22.26 | Avg    |
| 7                                                                                                                                                                                                                                  | 7323     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9764     | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : $\pi/4$ DQPSK TX High                                                                                                                                                                                                  |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                  | 4960     | V        | 60.12            | -12.70         | 47.42           | 74.00          | -26.58 | Peak   |
| 2                                                                                                                                                                                                                                  | 4960     | V        | 48.17            | -12.70         | 35.47           | 54.00          | -18.53 | Avg    |
| 3                                                                                                                                                                                                                                  | 7440     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9920     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4960     | H        | 55.86            | -12.70         | 43.16           | 74.00          | -30.84 | Peak   |
| 6                                                                                                                                                                                                                                  | 4960     | H        | 45.92            | -12.70         | 33.22           | 54.00          | -20.78 | Avg    |
| 7                                                                                                                                                                                                                                  | 7440     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9920     | --       | --               | --             | --              | --             | --     | --     |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor. Margin= Result-Limit. |          |          |                  |                |                 |                |        |        |

| Test Mode : 8DPSK TX Low                                                                                                                                                                                                           |          |          |                  |                |                 |                |        |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| No.                                                                                                                                                                                                                                | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                  | 4804     | V        | 59.26            | -13.25         | 46.01           | 74.00          | -27.99 | Peak   |
| 2                                                                                                                                                                                                                                  | 4804     | V        | 48.84            | -13.25         | 35.59           | 54.00          | -18.41 | Avg    |
| 3                                                                                                                                                                                                                                  | 7206     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9608     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4804     | H        | 56.64            | -13.25         | 43.39           | 74.00          | -30.61 | Peak   |
| 6                                                                                                                                                                                                                                  | 4804     | H        | 44.63            | -13.25         | 31.38           | 54.00          | -22.62 | Avg    |
| 7                                                                                                                                                                                                                                  | 7206     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9608     | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : 8DPSK TX Mid                                                                                                                                                                                                           |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                  | 4882     | V        | 58.27            | -12.98         | 45.29           | 74.00          | -28.71 | Peak   |
| 2                                                                                                                                                                                                                                  | 4882     | V        | 47.23            | -12.98         | 34.25           | 54.00          | -19.75 | Avg    |
| 3                                                                                                                                                                                                                                  | 7323     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9764     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4882     | H        | 57.29            | -12.98         | 44.31           | 74.00          | -29.69 | Peak   |
| 6                                                                                                                                                                                                                                  | 4882     | H        | 47.83            | -12.98         | 34.85           | 54.00          | -19.15 | Avg    |
| 7                                                                                                                                                                                                                                  | 7323     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9764     | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : 8D PSK TX High                                                                                                                                                                                                         |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                  | 4960     | V        | 58.86            | -12.70         | 46.16           | 74.00          | -27.84 | Peak   |
| 2                                                                                                                                                                                                                                  | 4960     | V        | 47.12            | -12.70         | 34.42           | 54.00          | -19.58 | Avg    |
| 3                                                                                                                                                                                                                                  | 7440     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9920     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4960     | H        | 55.31            | -12.70         | 42.61           | 74.00          | -31.39 | Peak   |
| 6                                                                                                                                                                                                                                  | 4960     | H        | 48.08            | -12.70         | 35.38           | 54.00          | -18.62 | Avg    |
| 7                                                                                                                                                                                                                                  | 7440     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9920     | --       | --               | --             | --              | --             | --     | --     |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor. Margin= Result-Limit. |          |          |                  |                |                 |                |        |        |

## 10. Band Edge Test

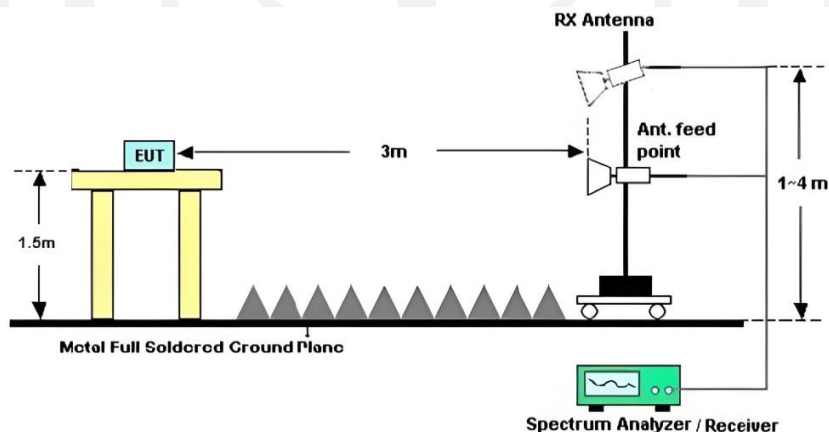
### 10.1. Test Limit

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300                           |
| 0.490-1.705     | 24000/F(kHz)                      | 30                            |
| 1.705-30.0      | 30                                | 30                            |
| 30-88           | 100 **                            | 3                             |
| 88-216          | 150 **                            | 3                             |
| 216-960         | 200 **                            | 3                             |
| Above 960       | 500                               | 3                             |

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241

### 10.2. Block Diagram of Test Setup



### 10.3. Test Procedure

ANSI C63.10-2020+Cor.1-2023 section 6.10.5.2

All restriction band and non- restriction band have been tested, only worse case is reported.

Details see the KDB558074 D01 Meas Guidance v05r02

1. Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
2. Check the spurious emissions out of band.
3. RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 10Hz, RMS detector for AV value.

## 10.4. Test Results

|               |               |             |       |
|---------------|---------------|-------------|-------|
| Test Date     | : 2026.06.05  | Temperature | : 26℃ |
| Test Engineer | : Felix Pang  | Humidity    | : 54% |
| Test Results  | : <b>PASS</b> |             |       |

| Frequency Range : <b>2310MHz~2410MHz</b>                                                                                                                                                                                                    |          |          |                  |                |                 |                |        |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Test Mode : GFSK TX 2402MHz                                                                                                                                                                                                                 |          |          |                  |                |                 |                |        |        |
| No.                                                                                                                                                                                                                                         | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                           | 2390     | H        | 61.96            | -20.45         | 41.51           | 74.00          | -32.49 | Peak   |
| 2                                                                                                                                                                                                                                           | 2390     | H        | --               | -20.45         | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                           | 2400     | H        | 62.41            | -20.41         | 42.00           | 74.00          | -32.00 | Peak   |
| 4                                                                                                                                                                                                                                           | 2400     | H        | --               | -20.41         | --              | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                             |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                           | 2390     | V        | 59.05            | -20.45         | 38.60           | 74.00          | -35.40 | Peak   |
| 2                                                                                                                                                                                                                                           | 2390     | V        | --               | -20.45         | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                           | 2400     | V        | 63.42            | -20.41         | 43.01           | 74.00          | -30.99 | Peak   |
| 4                                                                                                                                                                                                                                           | 2400     | V        | --               | -20.41         | --              | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                             |          |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b>                                                                                                                                                                                                    |          |          |                  |                |                 |                |        |        |
| Test Mode : GFSK TX 2480MHz                                                                                                                                                                                                                 |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                           | 2483.5   | H        | 60.67            | -20.15         | 40.52           | 74.00          | -33.48 | Peak   |
| 2                                                                                                                                                                                                                                           | 2483.5   | H        | --               | -20.15         | --              | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                             |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                           | 2483.5   | V        | 64.49            | -20.15         | 44.34           | 74.00          | -29.66 | Peak   |
| 2                                                                                                                                                                                                                                           | 2483.5   | V        | --               | -20.15         | --              | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                             |          |          |                  |                |                 |                |        |        |
| Note:                                                                                                                                                                                                                                       |          |          |                  |                |                 |                |        |        |
| 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.                                                                                                                                          |          |          |                  |                |                 |                |        |        |
| 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.                                                                                                                                                                                |          |          |                  |                |                 |                |        |        |
| Result=Reading + Correct Factor. Margin= Result-Limit.                                                                                                                                                                                      |          |          |                  |                |                 |                |        |        |
| 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |          |                  |                |                 |                |        |        |

| Frequency Range : <b>2310MHz~2410MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Test Mode : $\pi/4$ DQPSK TX 2402MHz     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| No.                                      | Freq MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | 60.89            | -20.45         | 40.44           | 74.00          | -33.56 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | --               | -20.45         | --              | 54.00          | --     | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | 62.09            | -20.41         | 41.68           | 74.00          | -32.32 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | --               | -20.41         | --              | 54.00          | --     | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | 59.87            | -20.45         | 39.42           | 74.00          | -34.58 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | --               | -20.45         | --              | 54.00          | --     | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | 64.81            | -20.41         | 44.40           | 74.00          | -29.60 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | --               | -20.41         | --              | 54.00          | --     | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Test Mode : $\pi/4$ DQPSK TX 2480MHz     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H        | 61.01            | -20.15         | 40.86           | 74.00          | -33.14 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H        | --               | -20.15         | --              | 54.00          | --     | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V        | 63.84            | -20.15         | 43.69           | 74.00          | -30.31 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V        | --               | -20.15         | --              | 54.00          | --     | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Note:                                    | <p>1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br/>Result=Reading + Correct Factor. Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |                  |                |                 |                |        |        |

| Frequency Range : <b>2310MHz~2410MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Test Mode : 8DPSK TX 2402MHz             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| No.                                      | Freq MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | 62.37            | -20.45         | 41.92           | 74.00          | -32.08 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | --               | -20.45         | --              | 54.00          | --     | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | 63.88            | -20.41         | 43.47           | 74.00          | -30.53 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | --               | -20.41         | --              | 54.00          | --     | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | 61.31            | -20.45         | 40.86           | 74.00          | -33.14 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | --               | -20.45         | --              | 54.00          | --     | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | 63.18            | -20.41         | 42.77           | 74.00          | -31.23 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | --               | -20.41         | --              | 54.00          | --     | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Test Mode : 8DPSK TX 2480MHz             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H        | 61.84            | -20.15         | 41.69           | 74.00          | -32.31 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H        | --               | -20.15         | --              | 54.00          | --     | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V        | 64.45            | -20.15         | 44.30           | 74.00          | -29.70 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V        | --               | -20.15         | --              | 54.00          | --     | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Note:                                    | <p>1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br/>Result=Reading + Correct Factor. Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |                  |                |                 |                |        |        |

## 11. Power Line Conducted Emissions

### 11.1. Test Limits

| Frequency<br>(MHz) | Limits dB(μV)    |               |
|--------------------|------------------|---------------|
|                    | Quasi-peak Level | Average Level |
| 0.15 -0.50         | 66 -56*          | 56 - 46*      |
| 0.50 -5.00         | 56               | 46            |
| 5.00 -30.00        | 60               | 50            |

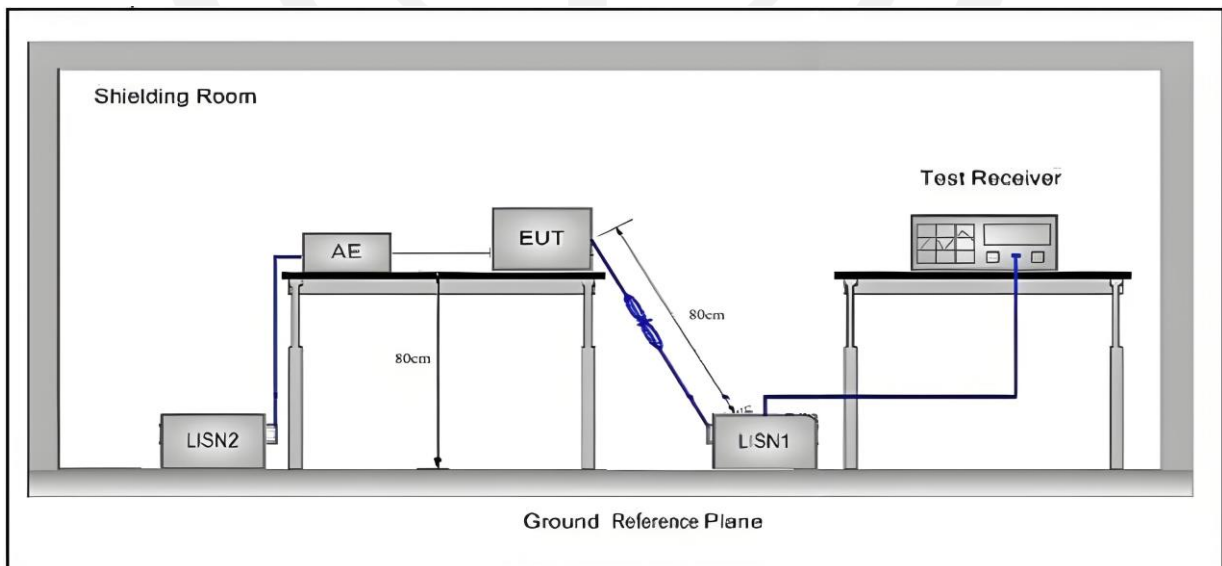
- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
 2. The lower limit shall apply at the transition frequencies.  
 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 11.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10-2020+Cor.1-2023 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

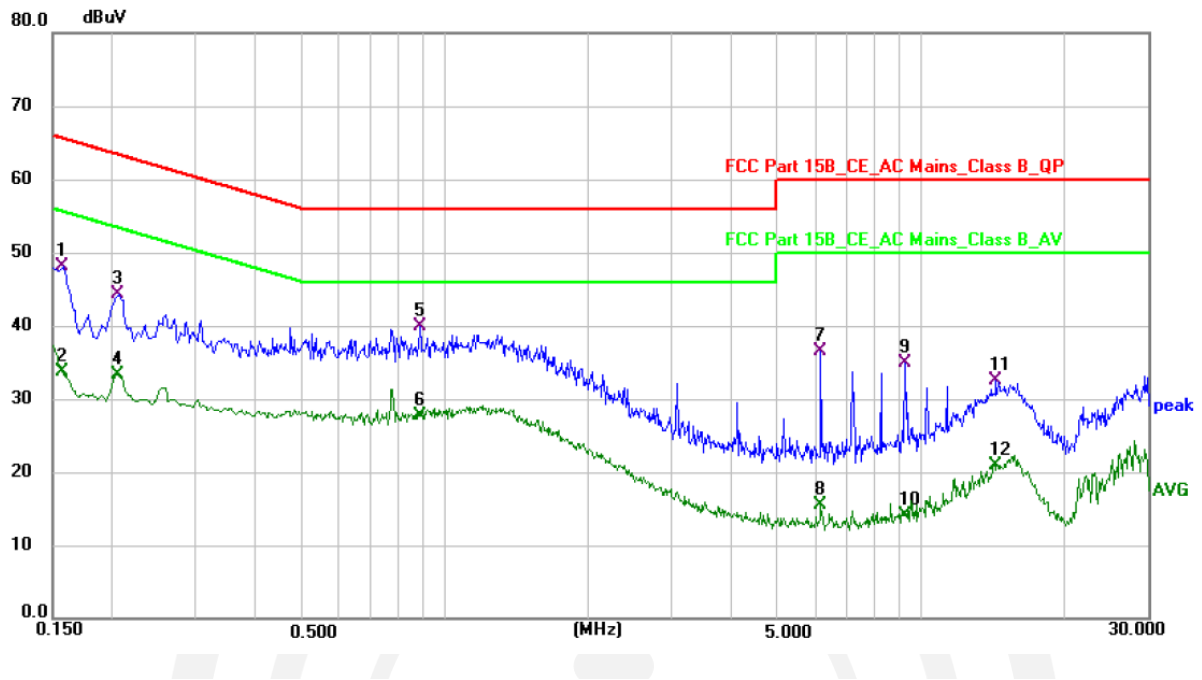
### 11.3. Test Setup



#### 11.4. Test Results

|               |                                                                                                                                                                                                                                                                     |             |       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|
| Test Date     | : 2026.06.05                                                                                                                                                                                                                                                        | Temperature | : 24℃ |
| Test Engineer | : Felix Pang                                                                                                                                                                                                                                                        | Humidity    | : 56% |
| Test Mode     | : GFSK mode                                                                                                                                                                                                                                                         |             |       |
| Test voltage  | : AC 120V/60Hz                                                                                                                                                                                                                                                      |             |       |
| Test Results  | : <b>PASS</b>                                                                                                                                                                                                                                                       |             |       |
| Note:         | 1. The test results are listed in next pages.                                                                                                                                                                                                                       |             |       |
|               | 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. |             |       |
|               | 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.                   |             |       |
|               | 4. All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.                                                                                                                                                         |             |       |

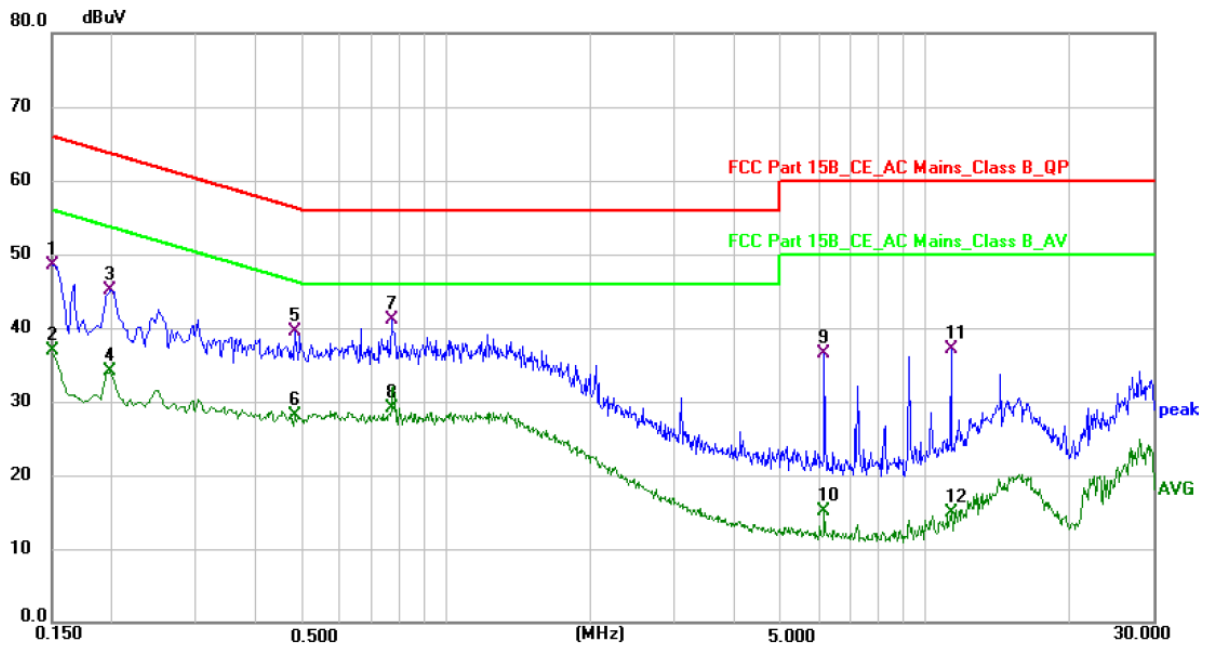
## Polarization: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 0.1580          | 38.39          | 9.65        | 48.04        | 65.57        | -17.53      | QP       |
| 2   | 0.1580          | 24.05          | 9.65        | 33.70        | 55.57        | -21.87      | AVG      |
| 3   | 0.2060          | 34.90          | 9.40        | 44.30        | 63.37        | -19.07      | QP       |
| 4   | 0.2060          | 23.91          | 9.40        | 33.31        | 53.37        | -20.06      | AVG      |
| 5 * | 0.8860          | 30.31          | 9.65        | 39.96        | 56.00        | -16.04      | QP       |
| 6   | 0.8860          | 18.08          | 9.65        | 27.73        | 46.00        | -18.27      | AVG      |
| 7   | 6.1820          | 26.77          | 9.76        | 36.53        | 60.00        | -23.47      | QP       |
| 8   | 6.1820          | 5.67           | 9.76        | 15.43        | 50.00        | -34.57      | AVG      |
| 9   | 9.2739          | 25.30          | 9.65        | 34.95        | 60.00        | -25.05      | QP       |
| 10  | 9.2739          | 4.52           | 9.65        | 14.17        | 50.00        | -35.83      | AVG      |
| 11  | 14.4220         | 22.68          | 9.78        | 32.46        | 60.00        | -27.54      | QP       |
| 12  | 14.4220         | 11.09          | 9.78        | 20.87        | 50.00        | -29.13      | AVG      |

Note: Level = Reading + Factor, Margin = Level - Limit

## Polarization: N



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 0.1500          | 38.99          | 9.60        | 48.59        | 66.00        | -17.41      | QP       |
| 2   | 0.1500          | 27.30          | 9.60        | 36.90        | 56.00        | -19.10      | AVG      |
| 3   | 0.1980          | 35.69          | 9.41        | 45.10        | 63.69        | -18.59      | QP       |
| 4   | 0.1980          | 24.63          | 9.41        | 34.04        | 53.69        | -19.65      | AVG      |
| 5   | 0.4820          | 29.86          | 9.65        | 39.51        | 56.30        | -16.79      | QP       |
| 6   | 0.4820          | 18.47          | 9.65        | 28.12        | 46.30        | -18.18      | AVG      |
| 7 * | 0.7700          | 31.23          | 9.83        | 41.06        | 56.00        | -14.94      | QP       |
| 8   | 0.7700          | 19.30          | 9.83        | 29.13        | 46.00        | -16.87      | AVG      |
| 9   | 6.1820          | 26.83          | 9.70        | 36.53        | 60.00        | -23.47      | QP       |
| 10  | 6.1820          | 5.45           | 9.70        | 15.15        | 50.00        | -34.85      | AVG      |
| 11  | 11.3300         | 27.63          | 9.43        | 37.06        | 60.00        | -22.94      | QP       |
| 12  | 11.3300         | 5.56           | 9.43        | 14.99        | 50.00        | -35.01      | AVG      |

Note: Level = Reading + Factor, Margin = Level - Limit

## 12. Antenna Requirements

### 12.1.Limit

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 12.2.Result

The EUT antenna is internal antenna. It complies with the standard requirement.



### 13. Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

### 14. Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

----- END OF REPORT-----

