



# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR240700025102

Rev.: 01

Page: 1 of 90

## TEST REPORT

**Application No.:** SUCR2407000251MO  
**Applicant:** Quectel Wireless Solutions Co., Ltd.  
**Address of Applicant:** Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233  
**Manufacturer:** Quectel Wireless Solutions Co., Ltd.  
**Address of Manufacturer:** Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233  
**EUT Description:** Wi-Fi & Bluetooth Module  
**Model No.:** AF67E  
**Trade Mark:** Quectel  
**FCC ID:** XMR202406AF67E  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** July 12, 2024  
**Date of Test:** July 15, 2024 to August 28, 2024  
**Date of Issue:** September 11, 2024

|                      |               |
|----------------------|---------------|
| <b>Test Result :</b> | <b>PASS *</b> |
|----------------------|---------------|

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

*Nature Shen*

*Cloud Peng*

**Prepared by: Nature Shen/ Project Manager**

**Approved by: Cloud Peng/ Technical Manager**

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# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR240700025102

Rev.: 01

Page: 2 of 90

## Version

| Revision Record |         |                    |          |          |
|-----------------|---------|--------------------|----------|----------|
| Version         | Chapter | Date               | Modifier | Remark   |
| 01              |         | September 11, 2024 |          | Original |

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 [www.sgs.com.cn](http://www.sgs.com.cn)

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## Contents

|   |           |
|---|-----------|
| <b>Version</b> .....  | <b>2</b>  |
| <b>1 Test Summary</b> .....   | <b>4</b>  |
| <b>2 General Information</b> .....                                  | <b>5</b>  |
| 2.1 Details of Client.....  | 5         |
| 2.2 Test Location .....   | 5         |
| 2.3 Test Facility.....  | 5         |
| 2.4 General Description of EUT .....                                | 6         |
| 2.5 Test Environment.....   | 8         |
| 2.6 Description of Support Units .....                              | 8         |
| <b>3 Test results and Measurement Data</b> .....                    | <b>9</b>  |
| 3.1 Antenna Requirement .....                                       | 9         |
| 3.2 AC Power Line Conducted Emissions.....                          | 10        |
| 3.3 Duty Cycle.....   | 16        |
| 3.4 Conducted Output Power .....                                    | 17        |
| 3.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth .....             | 18        |
| 3.6 Power Spectral Density .....                                    | 19        |
| 3.7 Band-edge for RF Conducted Emissions .....                      | 20        |
| 3.8 RF Conducted Spurious Emissions.....                            | 21        |
| 3.9 Radiated Spurious Emissions .....                               | 22        |
| 3.10 Restricted bands around fundamental frequency.....             | 25        |
| <b>4 Measurement Uncertainty (95% confidence levels, k=2)</b> ..... | <b>27</b> |
| <b>5 Equipment List</b> .....                                       | <b>28</b> |
| <b>6 Photographs - Setup Photos</b> .....                           | <b>31</b> |

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## 1 Test Summary

| Test Item   | FCC Rule No.     | Test Method                                    | Test Result | Result             |
|---|------------------|--|-------------|--------------------|
| Antenna Requirement   | 15.203/15.247(b) | --   | Clause 3.1  | PASS               |
| AC Power Line Conducted Emission                                  | 15.207           | ANSI C63.10 2013 Section 6.2                   | Clause 3.2  | PASS               |
| Duty cycle  | --               | ANSI C63.10 2013 Section 11.6                  | Clause 3.3  | For Report Purpose |
| Conducted Output Power  | 15.247 (b)(3)    | ANSI C63.10 2013 Section 11.9.1.3              | Clause 3.4  | PASS               |
| DTS (6 dB) Bandwidth & 99% Occupied Bandwidth                     | 15.247 (a)(2)    | ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3 | Clause 3.5  | PASS               |
| Power Spectral Density  | 15.247 (e)       | ANSI C63.10 2013 Section 11.10.2               | Clause 3.6  | PASS               |
| Band-edge for RF Conducted Emissions                              | 15.247(d)        | ANSI C63.10 2013 Section 11.13.3               | Clause 3.7  | PASS               |
| RF Conducted Spurious Emissions                                   | 15.247(d)        | ANSI C63.10 2013 Section 11.11                 | Clause 3.8  | PASS               |
| Radiated Spurious Emissions                                       | 15.205/15.209    | ANSI C63.10 2013 Section 11.12                 | Clause 3.9  | PASS               |
| Restricted bands around fundamental frequency (Radiated Emission) | 15.205/15.209    | ANSI C63.10 2013 Section 11.12                 | Clause 3.10 | PASS               |

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## 2 General Information

### 2.1 Details of Client

|                          |   |
|--------------------------|---|
| Applicant:               | Quectel Wireless Solutions Co., Ltd.  |
| Address of Applicant:    | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |
| Manufacturer:            | Quectel Wireless Solutions Co., Ltd.  |
| Address of Manufacturer: | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |

### 2.2 Test Location

|                |  |
|----------------|--|
| Company:       | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.   |
| Address:       | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code:     | 215000   |
| Test engineer: | Ives Cheng, Tizzy Song   |

### 2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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## 2.4 General Description of EUT

|  |  |
|--|--|
| EUT Description:   | Wi-Fi & Bluetooth Module   |
| Model No.:   | AF67E  |
| Trade Mark:  | Quectel  |
| Hardware Version:  | R1.0   |
| Software Version:  | NA   |
| Power Supply:  | 1.8V   |
| SN:  | E1A24EU0R000312  |
| Operation Frequency:   | 2400MHz~2483.5MHz<br>$f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$ , where:<br>- $f_c$ = "Operating Frequency" in MHz,<br>- $N$ = "Channel Number" with the range from 0 to 39. |
| Bluetooth version:   | Bluetooth V5.3   |
| Modulation Type:   | GFSK   |
| Number of Channel:   | 40   |
| Rates Type*:   | <input checked="" type="checkbox"/> Provided by client   |
|  | 1M PHY                      2M PHY   |
| Antenna Type:  | External Antenna   |
| Antenna Gain:  | -0.1dBi (Ant1);<br>Note:<br>The antenna gain are derived from the gain information report provided by the manufacturer.  |
| RF Cable:  | 1.0dB  |
| <p>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>Remark:<br/>         As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> |  |

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| Operation Frequency of each channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0                                   | 2402MHz   | 10      | 2422MHz   | 20      | 2442MHz   | 30      | 2462MHz   |
| 1                                   | 2404MHz   | 11      | 2424MHz   | 21      | 2444MHz   | 31      | 2464MHz   |
| 2                                   | 2406MHz   | 12      | 2426MHz   | 22      | 2446MHz   | 32      | 2466MHz   |
| 3                                   | 2408MHz   | 13      | 2428MHz   | 23      | 2448MHz   | 33      | 2468MHz   |
| 4                                   | 2410MHz   | 14      | 2430MHz   | 24      | 2450MHz   | 34      | 2470MHz   |
| 5                                   | 2412MHz   | 15      | 2432MHz   | 25      | 2452MHz   | 35      | 2472MHz   |
| 6                                   | 2414MHz   | 16      | 2434MHz   | 26      | 2454MHz   | 36      | 2474MHz   |
| 7                                   | 2416MHz   | 17      | 2436MHz   | 27      | 2456MHz   | 37      | 2476MHz   |
| 8                                   | 2418MHz   | 18      | 2438MHz   | 28      | 2458MHz   | 38      | 2478MHz   |
| 9                                   | 2420MHz   | 19      | 2440MHz   | 29      | 2460MHz   | 39      | 2480MHz   |

**Remark:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel                   | Frequency |
|---------------------------|-----------|
| The Lowest channel(CH0)   | 2402MHz   |
| The Middle channel(CH19)  | 2440MHz   |
| The Highest channel(CH39) | 2480MHz   |

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## 2.5 Test Environment

| Environment Parameter                                   | 101 kPa Selected Values During Tests |            |
|---|--------------------------------------|------------|
| Relative Humidity                                       | 44-46 % RH Ambient                   |            |
| Value   | Temperature(°C)                      | Voltage(V) |
| NTNV  | 22~23                                | 1.8        |
| Remark:<br>NV: Normal Voltage<br>NT: Normal Temperature |                                      |            |

## 2.6 Description of Support Units

The EUT has been tested as an independent unit.

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### 3 Test results and Measurement Data

#### 3.1 Antenna Requirement

|  |  |
|--|--|
| <b>Standard requirement:</b>   | 47 CFR Part 15C Section 15.203 /247(b) |
| <p>15.203 requirement:<br/>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, 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.</p> <p>15.247(b) (4) requirement:<br/>The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> |  |
| <p>The antenna is Internal Antenna on the main PCB and no consideration of replacement.<br/>The best case gain of the antenna is -0.1dBi (Ant1);*</p>  |  |
| <p><i>*Note:</i><br/><i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i><br/><i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>   |  |

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### 3.2 AC Power Line Conducted Emissions

|                       |   |              |           |
|-----------------------|---|--------------|-----------|
| Test Requirement:     | 47 CFR Part 15C Section 15.207  |              |           |
| Test Method:          | ANSI C63.10: 2013 Section 6.2   |              |           |
| Test Frequency Range: | 150kHz to 30MHz   |              |           |
| Receiver Setup:       | RBW = 9kHz, VBW = 30kHz   |              |           |
| Limit:                | Frequency range(MHz)  | Limit (dBuV) |           |
|                       |   | Quasi-peak   | Average   |
|                       | 0.15-0.5  | 66 to 56*    | 56 to 46* |
|                       | 0.5-5   | 56           | 46        |
|                       | 5-30  | 60           | 50        |
|                       | * Decreases with the logarithm of the frequency.  |              |           |
| Test Procedure:       | <ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol> |              |           |

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|                          |  |
|--------------------------|--|
| <p>Test Setup:</p>       |  |
| <p>Test Mode:</p>        | <p>Transmitting with GFSK modulation.<br/>Adapter+transmitting mode.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 6 for details.</p>                                   |
| <p>Test Results:</p>     | <p>Pass</p>  |

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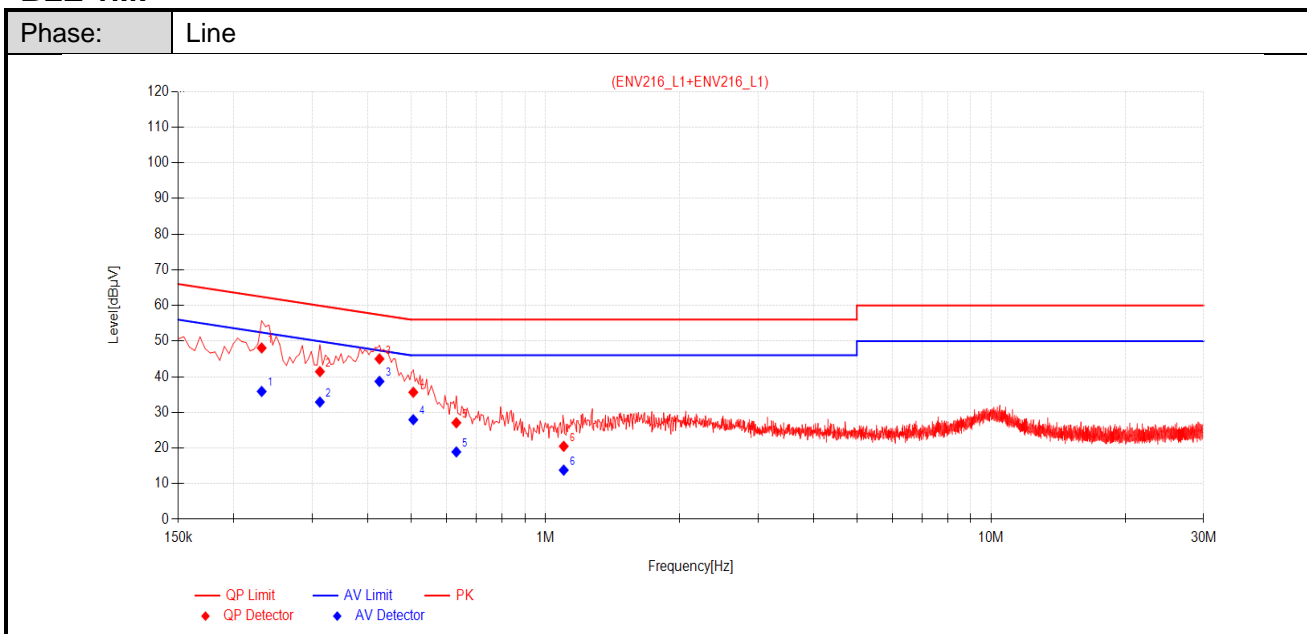
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**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

**BLE 1M:**



| Final Data List |             |             |                   |                 |                 |                |                   |                 |                 |                |         |
|-----------------|-------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| NO.             | Freq. [MHz] | Factor [dB] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
| 1               | 0.2310      | 10.17       | 37.89             | 48.06           | 62.41           | 14.35          | 25.69             | 35.86           | 52.41           | 16.55          | PASS    |
| 2               | 0.3120      | 10.16       | 31.27             | 41.43           | 59.92           | 18.49          | 22.74             | 32.90           | 49.92           | 17.02          | PASS    |
| 3               | 0.4245      | 10.17       | 34.82             | 44.99           | 57.36           | 12.37          | 28.52             | 38.69           | 47.36           | 8.67           | PASS    |
| 4               | 0.5055      | 10.18       | 25.45             | 35.63           | 56.00           | 20.37          | 17.77             | 27.95           | 46.00           | 18.05          | PASS    |
| 5               | 0.6315      | 10.20       | 16.87             | 27.07           | 56.00           | 28.93          | 8.71              | 18.91           | 46.00           | 27.09          | PASS    |
| 6               | 1.0995      | 10.09       | 10.39             | 20.48           | 56.00           | 35.52          | 3.70              | 13.79           | 46.00           | 32.21          | PASS    |

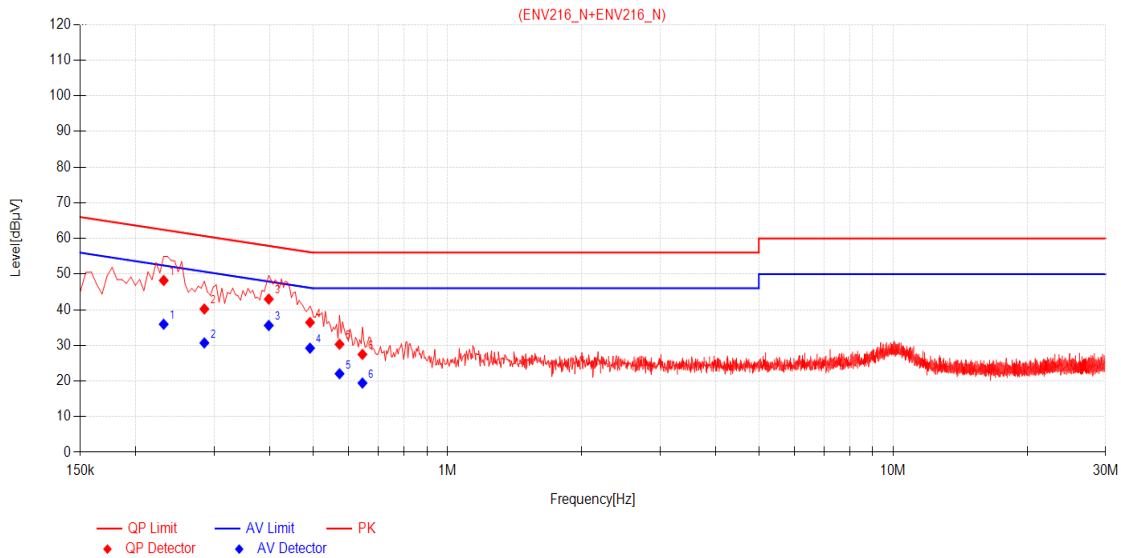
**Remark:**

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]

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Phase: Neutral



### Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
|-----|-------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1   | 0.2310      | 10.17       | 38.03             | 48.20           | 62.41           | 14.21          | 25.75             | 35.92           | 52.41           | 16.49          | PASS    |
| 2   | 0.2850      | 10.15       | 30.05             | 40.20           | 60.67           | 20.47          | 20.53             | 30.68           | 50.67           | 19.99          | PASS    |
| 3   | 0.3975      | 10.16       | 32.81             | 42.97           | 57.91           | 14.94          | 25.42             | 35.58           | 47.91           | 12.33          | PASS    |
| 4   | 0.4920      | 10.16       | 26.26             | 36.42           | 56.13           | 19.71          | 19.05             | 29.21           | 46.13           | 16.92          | PASS    |
| 5   | 0.5730      | 10.19       | 20.11             | 30.30           | 56.00           | 25.70          | 11.85             | 22.04           | 46.00           | 23.96          | PASS    |
| 6   | 0.6450      | 10.21       | 17.26             | 27.47           | 56.00           | 28.53          | 9.22              | 19.43           | 46.00           | 26.57          | PASS    |

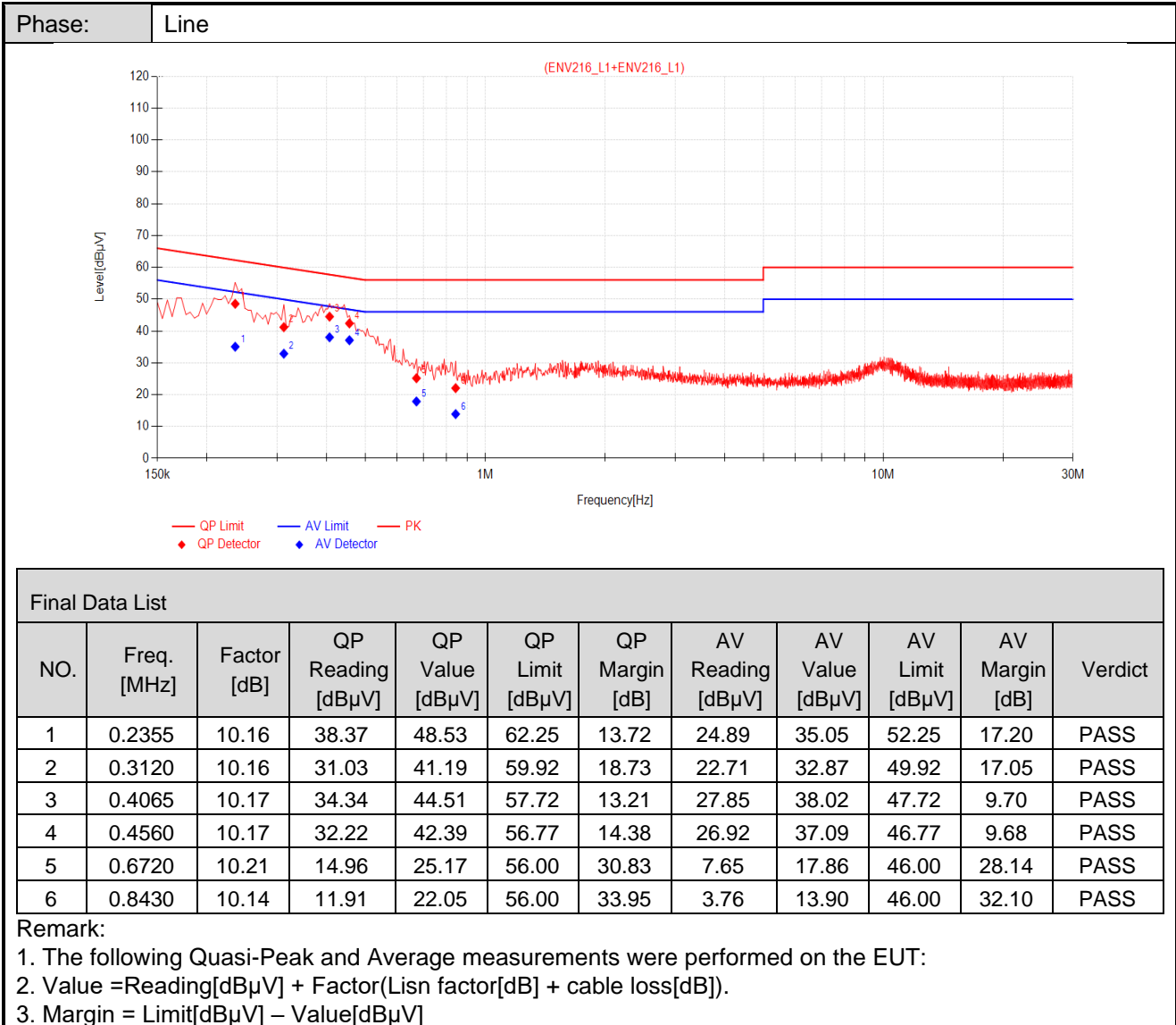
### Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]

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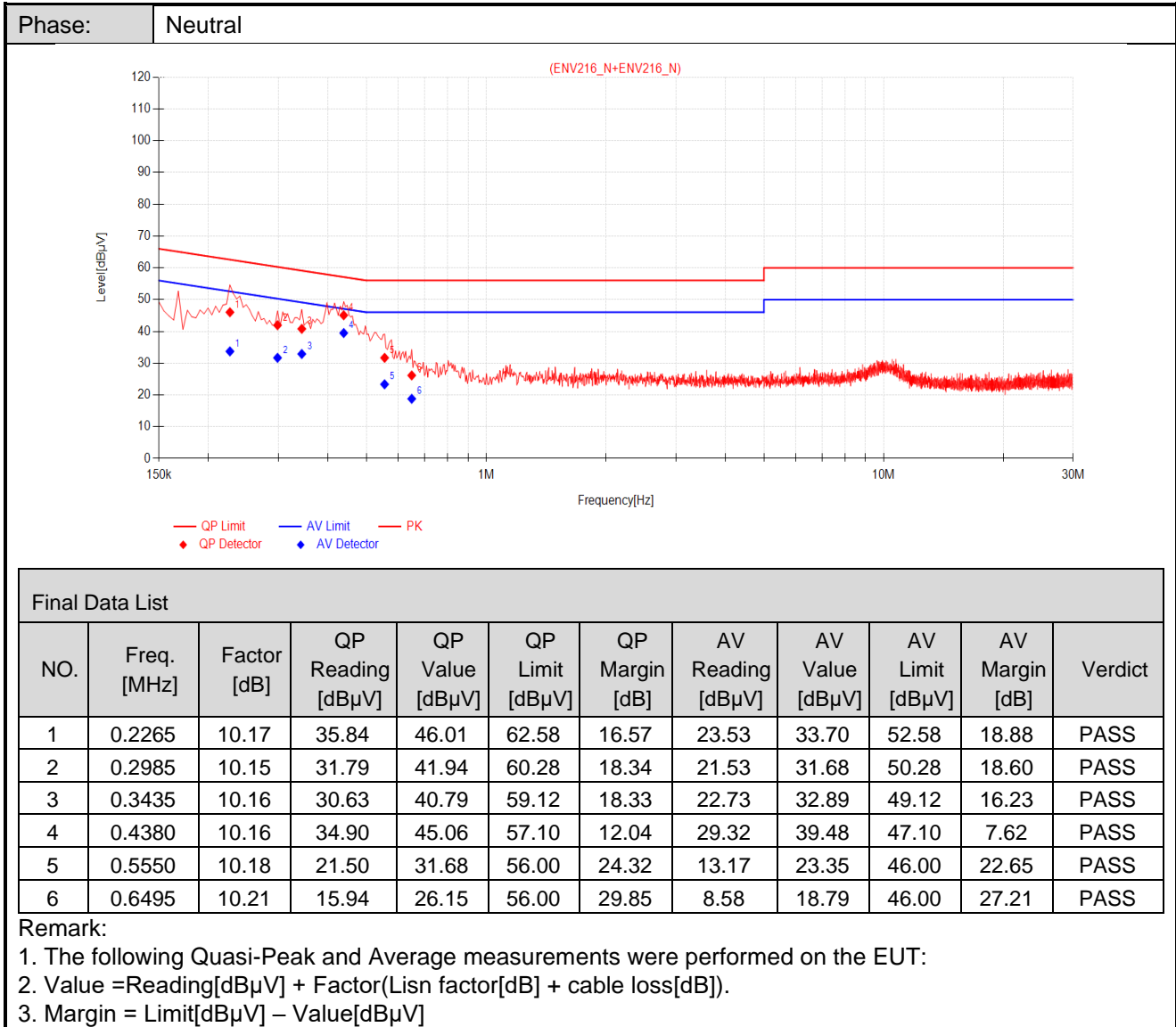
BLE 2M:



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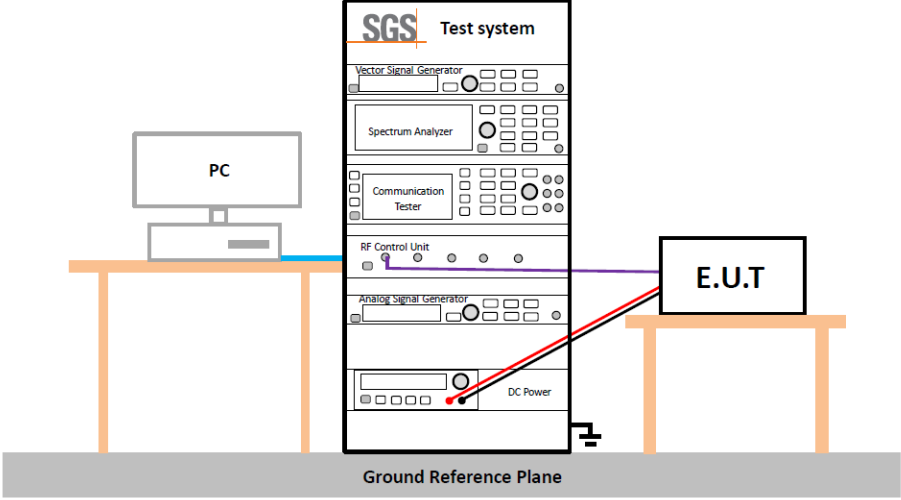
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### 3.3 Duty Cycle

|   |   |
|---|---|
| Test Requirement:                           | ANSI C63.10 :2013 Section 11.6  |
| Test Method:                                | ANSI C63.10 :2013 Section 11.6  |
| Test Setup:                                 |  |
| Instruments Used:                           | Refer to section 6 for details  |
| Test Mode:                                  | Transmitting with GFSK modulation.  |
| Limit:                                      | No restriction limits   |
| Test Results:                               | For Report Purpose  |
| The detailed test data see: <b>Appendix</b> |   |

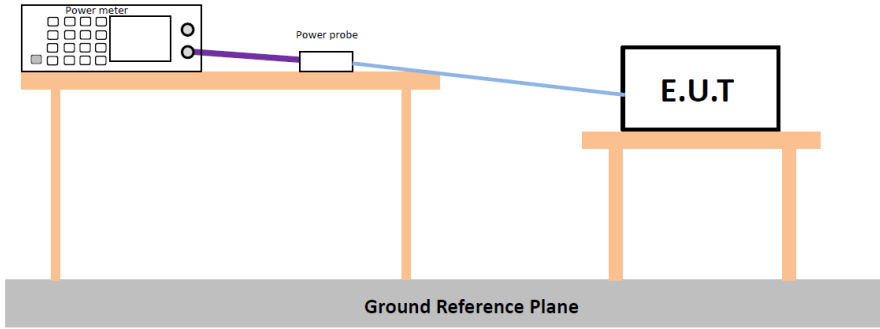
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### 3.4 Conducted Output Power

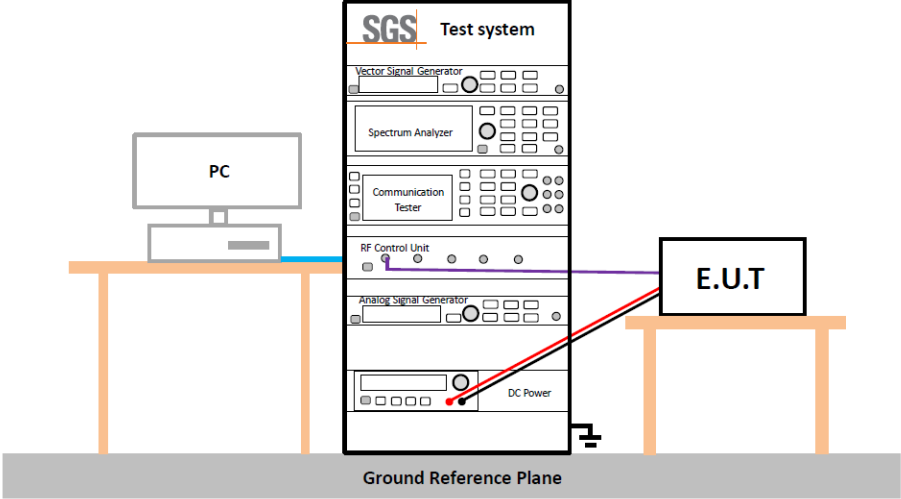
|   |   |
|---|---|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (b)(3)   |
| Test Method:                                | ANSI C63.10 :2013 Section 11.9.1.3  |
| Test Setup:                                 |  <p>* Test with power meter (Detector function: Peak)</p> |
| Test Instruments:                           | Refer to section 6 for details  |
| Test Mode:                                  | Transmitting with GFSK modulation.  |
| Limit:                                      | 30dBm   |
| Test Results:                               | Pass  |
| The detailed test data see: <b>Appendix</b> |   |

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### 3.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

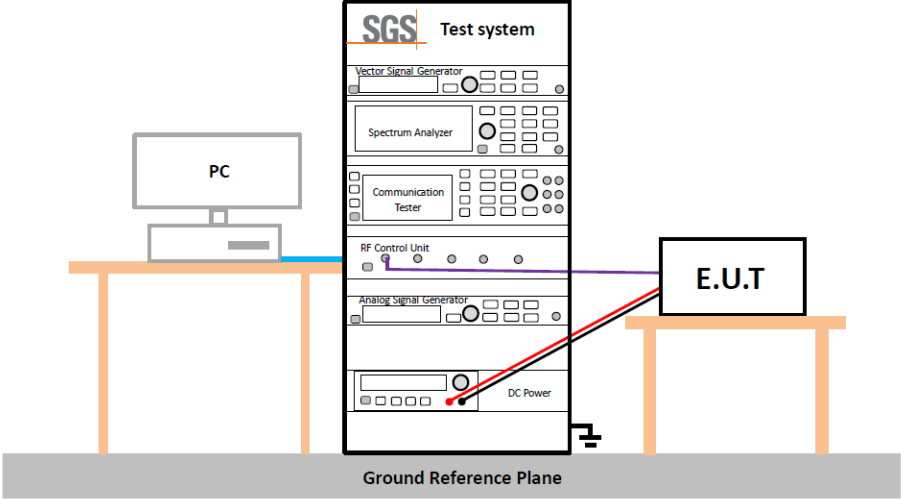
|   |   |
|---|---|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (a)(2)   |
| Test Method:                                | ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3                                     |
| Test Setup:                                 |  |
| Instruments Used:                           | Refer to section 6 for details  |
| Test Mode:                                  | Transmitting with GFSK modulation.  |
| Limit:                                      | ≥ 500 kHz for DTS Bandwidth   |
| Test Results:                               | Pass  |
| The detailed test data see: <b>Appendix</b> |   |

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### 3.6 Power Spectral Density

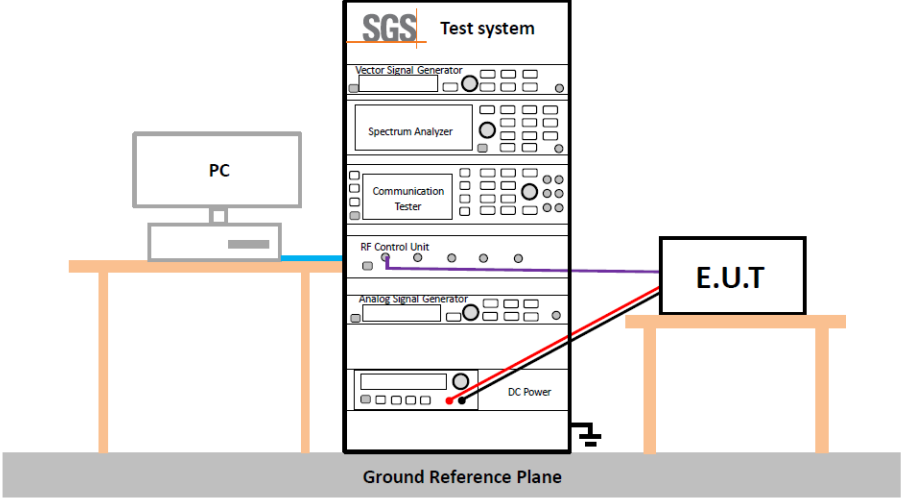
|   |   |
|---|---|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (e)  |
| Test Method:                                | ANSI C63.10 :2013 Section 11.10.2   |
| Test Setup:                                 |  |
| Test Instruments:                           | Refer to section 6 for details  |
| Test Mode:                                  | Transmitting with GFSK modulation.  |
| Limit:                                      | $\leq 8.00\text{dBm}/3\text{kHz}$   |
| Test Results:                               | Pass  |
| The detailed test data see: <b>Appendix</b> |   |

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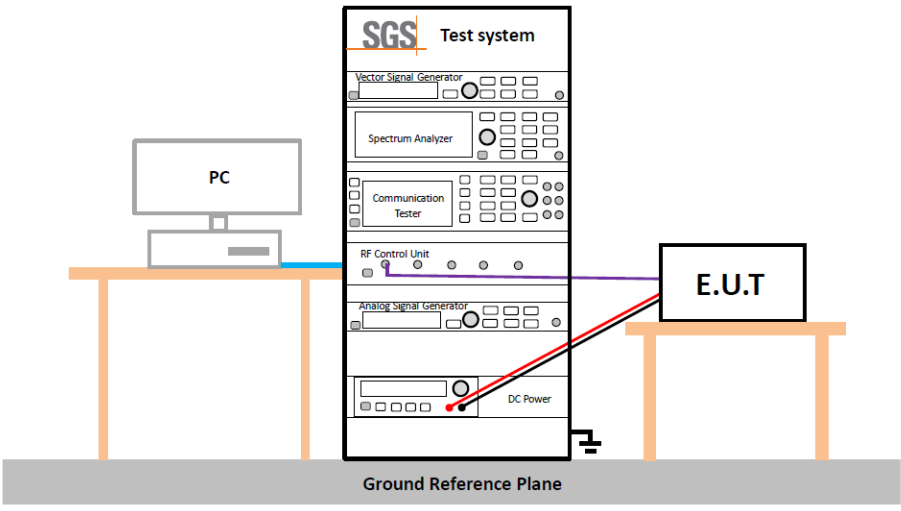
### 3.7 Band-edge for RF Conducted Emissions

|   |   |
|---|---|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (d)  |
| Test Method:                                | ANSI C63.10: 2013 Section 11.13.3   |
| Test Setup:                                 |    |
| Instruments Used:                           | Refer to section 6 for details  |
| Test Mode:                                  | Transmitting with GFSK modulation.  |
| Limit:                                      | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results:                               | Pass  |
| The detailed test data see: <b>Appendix</b> |   |

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### 3.8 RF Conducted Spurious Emissions

|   |   |
|---|---|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (d)  |
| Test Method:                                | ANSI C63.10: 2013 Section 11.11   |
| Test Setup:                                 |    |
| Instruments Used:                           | Refer to section 6 for details  |
| Test Mode:                                  | Transmitting with GFSK modulation.  |
| Limit:                                      | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results:                               | Pass  |
| The detailed test data see: <b>Appendix</b> |   |

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### 3.9 Radiated Spurious Emissions

|   |  |                                  |                |            |                          |
|---|--|----------------------------------|----------------|------------|--------------------------|
| Test Requirement:   | 47 CFR Part 15C Section 15.209 and 15.205        |                                  |                |            |                          |
| Test Method:  | ANSI C63.10 :2013 Section 11.12                  |                                  |                |            |                          |
| Test Site:  | Measurement Distance: 3m (Semi-Anechoic Chamber) |                                  |                |            |                          |
| Test Frequency:   | 9kHz ~ 25GHz                                     |                                  |                |            |                          |
| Limit:  | Frequency  | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark     | Measurement distance (m) |
|   | 0.009MHz-0.490MHz                                | 2400/F(kHz)                      | -              | -          | 300                      |
|   | 0.490MHz-1.705MHz                                | 24000/F(kHz)                     | -              | -          | 30                       |
|   | 1.705MHz-30MHz                                   | 30                               | -              | -          | 30                       |
|   | 30MHz-88MHz                                      | 100                              | 40.0           | Quasi-peak | 3                        |
|   | 88MHz-216MHz                                     | 150                              | 43.5           | Quasi-peak | 3                        |
|   | 216MHz-960MHz                                    | 200                              | 46.0           | Quasi-peak | 3                        |
|   | 960MHz-1GHz                                      | 500                              | 54.0           | Quasi-peak | 3                        |
|   | Above 1GHz                                       | 500                              | 54.0           | Average    | 3                        |
| Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. |  |                                  |                |            |                          |

**Test Setup:**

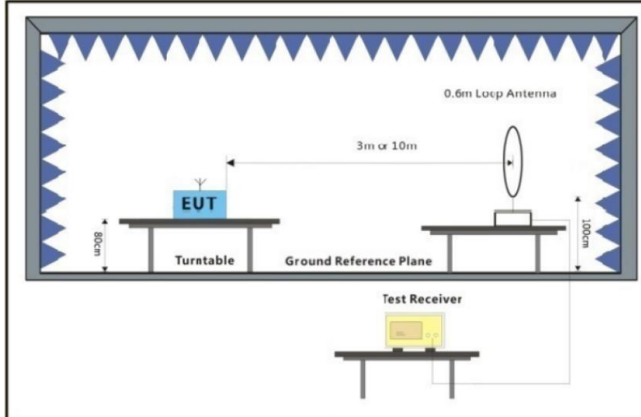


Figure 1. Below 30MHz

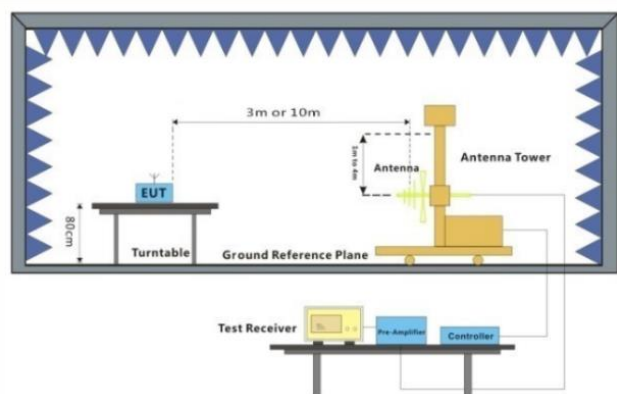


Figure 2. 30MHz to 1GHz

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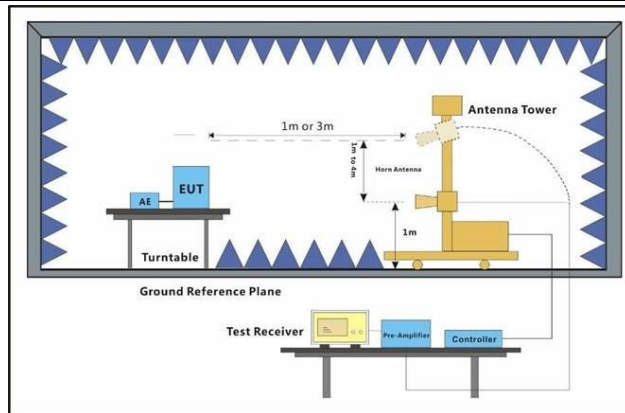


Figure 3. Above 1 GHz

**Test Procedure:**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- l. At a measurement distance of 1 meter the limit line was increased by  $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$ .

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|   |   |
|---|---|
| Test Configuration:                         | <p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul> |
| Exploratory Test Mode:                      | Transmitting with GFSK modulation.<br>Adapter+transmitting mode.  |
| Final Test Mode:                            | Transmitting with GFSK modulation.<br>Pretest the EUT at Adapter+transmitting mode,<br>For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.   |
| Instruments Used:                           | Refer to section 6 for details  |
| Test Results:                               | Pass  |
| The detailed test data see: <b>Appendix</b> |   |

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### 3.10 Restricted bands around fundamental frequency

|                   |  |                |               |
|-------------------|--|----------------|---------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205        |                |               |
| Test Method:      | ANSI C63.10: 2013 Section 11.12                  |                |               |
| Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber) |                |               |
| Limit:            | Frequency  | Limit (dBuV/m) | Remark        |
|                   | 30MHz-88MHz                                      | 40.0           | Quasi-peak    |
|                   | 88MHz-216MHz                                     | 43.5           | Quasi-peak    |
|                   | 216MHz-960MHz                                    | 46.0           | Quasi-peak    |
|                   | 960MHz-1GHz                                      | 54.0           | Quasi-peak    |
| Above 1GHz        |  | 54.0           | Average Value |
|                   |  | 74.0           | Peak Value    |

Test Setup:

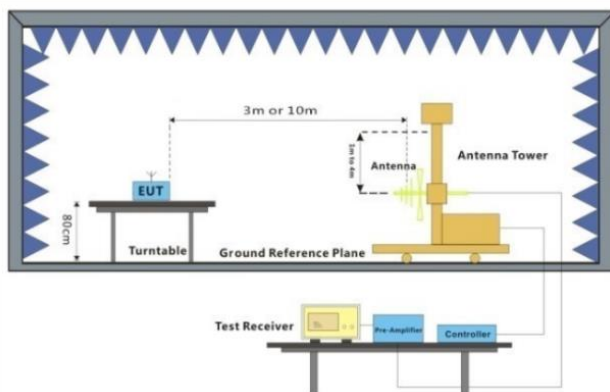


Figure 1. 30MHz to 1GHz

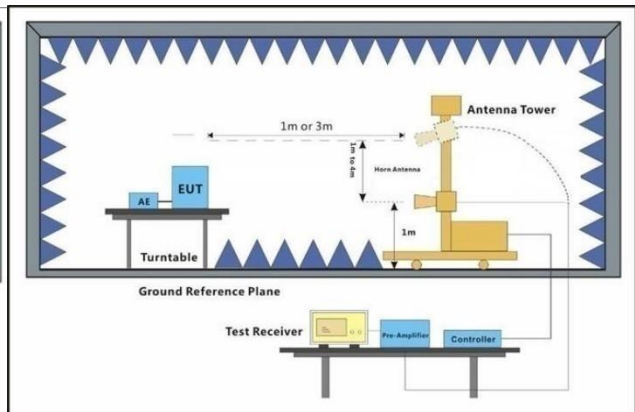


Figure 2. Above 1 GHz

|                 |   |
|-----------------|---|
| Test Procedure: | <ol style="list-style-type: none"> <li>For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the</li> </ol> |
|-----------------|---|

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|  |   |
|--|---|
|  | <p>rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>                                |
| Test Configuration:                                | <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul> |
| Exploratory Test Mode:                             | <p>Transmitting with GFSK modulation.<br/>Adapter+transmitting mode.</p>  |
| Final Test Mode:                                   | <p>Transmitting with GFSK modulation.<br/>Pretest the EUT at Adapter+transmitting mode.<br/>Only the worst case is recorded in the report.</p>  |
| Instruments Used:                                  | <p>Refer to section 6 for details</p>   |
| Test Results:                                      | <p>Pass</p>   |
| <p>The detailed test data see: <b>Appendix</b></p> |   |

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#### 4 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                          | Measurement Uncertainty    |
|-----|-------------------------------|----------------------------|
| 1   | Total RF power, conducted     | ±0.54dB                    |
| 2   | RF power density, conducted   | ±1.03dB                    |
| 3   | Spurious emissions, conducted | ±0.54dB                    |
| 4   | Radio Frequency               | ±1.0 %                     |
| 5   | Duty Cycle                    | ±0.37%                     |
| 6   | Occupied Bandwidth            | ±1.0 %                     |
| 7   | Conduction Emission           | ± 2.90dB (150kHz to 30MHz) |
| 8   | Radiated Emission             | ± 3.13dB (9k -30MHz)       |
|     |                               | ± 4.88dB (30M -1GHz)       |
|     |                               | ± 4.75dB (1GHz to 18GHz)   |
|     |                               | ± 4.77dB (Above 18GHz)     |

**Remark:**

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results  
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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## 5 Equipment List

| RF Test Equipment                   |               |             |               |                        |                           |
|-------------------------------------|---------------|-------------|---------------|------------------------|---------------------------|
| Test Equipment                      | Manufacturer  | Model No.   | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Shielding Room                      | Brilliant-emc | N/A         | SUWI-04-08-01 | 2022/11/09             | 2025/11/08                |
| Temperature and humidity meter      | MingGao       | TH101B      | SUWI-01-01-07 | 2024/02/18             | 2025/02/17                |
| Signal Analyzer                     | ROHDE&SCHWARZ | FSV3030     | SUWI-01-02-02 | 2024/05/08             | 2025/05/07                |
| Measurement Software                | TST           | TST272 V2.0 | SUWI-03-55-03 | NCR                    | NCR                       |
| Signal Analyzer                     | ROHDE&SCHWARZ | FSW43       | SUWI-01-02-04 | 2024/05/08             | 2025/05/07                |
| Temperature Chamber                 | ESPEC         | SU-242      | SUWI-01-13-02 | 2024/05/09             | 2025/05/08                |
| Wideband Radio Communication Tester | ROHDE&SCHWARZ | CMW500      | SUWI-01-16-05 | 2024/02/04             | 2025/02/03                |
| DC Power Supply                     | HYELEC        | HY3005B     | SUWI-01-18-01 | 2024/02/04             | 2025/02/03                |
| Power meter                         | Anritsu       | ML2495A     | SUWI-01-31-01 | 2023/11/21             | 2024/11/20                |
| Pulse power sensor                  | Anritsu       | MA2411B     | SUWI-01-32-01 | 2023/11/21             | 2024/11/20                |
| MXG Vector signal genitor           | KEYSIGHT      | N5182B      | SUWI-01-38-01 | 2024/02/04             | 2025/02/03                |
| Signal Analyzer                     | KEYSIGHT      | N9020A      | SUWI-01-02-07 | 2023/11/21             | 2024/11/20                |
| MXG Vector Signal Generator         | Agilent       | N5181A      | SUWI-01-38-02 | 2023/08/30             | 2024/08/29                |

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Report No.: SUCR240700025102

Rev.: 01

Page: 29 of 90

| Conduction Test Equipment      |               |                 |               |                        |                           |
|--------------------------------|---------------|-----------------|---------------|------------------------|---------------------------|
| Test Equipment                 | Manufacturer  | Model No.       | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Test receiver                  | ROHDE&SCHWARZ | ESR7            | SUWI-01-10-01 | 2024/02/01             | 2025/01/31                |
| Temperature and humidity meter | MingGao       | TH101B          | SUWI-01-01-06 | 2024/02/08             | 2025/02/07                |
| Artificial network             | ROHDE&SCHWARZ | ENV216          | SUWI-01-19-03 | 2024/02/04             | 2025/02/03                |
| Artificial network             | ROHDE&SCHWARZ | ENV216          | SUWI-01-19-04 | 2024/02/04             | 2025/02/03                |
| Measurement Software           | Tonscend      | JS32-CE 4.0.0.2 | SUWI-02-09-05 | NCR                    | NCR                       |

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Wireless Laboratory

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Rev.: 01

Page: 30 of 90

| RSE Test Equipment             |                                   |                     |               |                        |                           |
|--------------------------------|-----------------------------------|---------------------|---------------|------------------------|---------------------------|
| Test Equipment                 | Manufacturer                      | Model No.           | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Semi-Anechoic Chamber          | Brilliant-emc                     | N/A                 | SUWI-04-02-02 | 2023/03/04             | 2026/03/03                |
| Temperature and humidity meter | MingGao                           | TH101B              | SUWI-01-01-13 | 2024/02/08             | 2025/02/07                |
| Signal Analyzer                | ROHDE&SCHWARZ                     | FSW43               | SUWI-01-02-04 | 2024/05/08             | 2025/05/07                |
| Signal Analyzer                | KEYSIGHT                          | N9020A              | SUWI-01-02-06 | 2023/11/21             | 2024/11/20                |
| Test receiver                  | ROHDE&SCHWARZ                     | ESR7                | SUWI-01-10-01 | 2024/02/01             | 2025/01/31                |
| Receiving antenna              | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | VULB 9168           | SUWI-01-11-04 | 2023/11/25             | 2024/11/24                |
| Receiving antenna              | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9120D          | SUWI-01-11-05 | 2023/11/25             | 2024/11/24                |
| Receiving antenna              | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9170           | SUWI-01-11-03 | 2023/05/12             | 2025/05/11                |
| Active Loop Antenna            | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | FMZB 1519B          | SUWI-01-21-01 | 2023/05/13             | 2025/05/12                |
| Amplifier                      | Tonscend                          | TAP9K3G32           | SUWI-01-14-06 | 2023/11/21             | 2024/11/20                |
| Amplifier                      | Tonscend                          | TAP01018050         | SUWI-01-14-04 | 2023/11/21             | 2024/11/20                |
| Amplifier                      | Tonscend                          | TAP30M7G30          | SUWI-01-14-05 | 2023/11/21             | 2024/11/20                |
| Measurement Software           | Tonscend                          | JS32-RSE<br>4.0.0.1 | SUWI-02-09-06 | NCR                    | NCR                       |

Remark: NCR=No Calibration Requirement.

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## 6 Photographs - Setup Photos

Refer to Appendix A.1 WLAN Setup Photos.

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Report No.: SUCR240700025102

Rev.: 01

Page: 32 of 90

# Appendix

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## 1. Duty Cycle

### 1.1 Test Result

#### 1.1.1 Ant1

| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M   | SISO    | 2402            | 0.397     | 0.625       | 63.52          | 1.97                              | 0.03                  |
|      |         | 2440            | 0.400     | 0.625       | 64.00          | 1.94                              | 0.06                  |
|      |         | 2480            | 0.398     | 0.625       | 63.68          | 1.96                              | 0.00                  |
| 2M   | SISO    | 2402            | 0.214     | 0.625       | 34.24          | 4.65                              | 0.03                  |
|      |         | 2440            | 0.216     | 0.625       | 34.56          | 4.61                              | 0.03                  |
|      |         | 2480            | 0.213     | 0.625       | 34.08          | 4.68                              | 0.03                  |

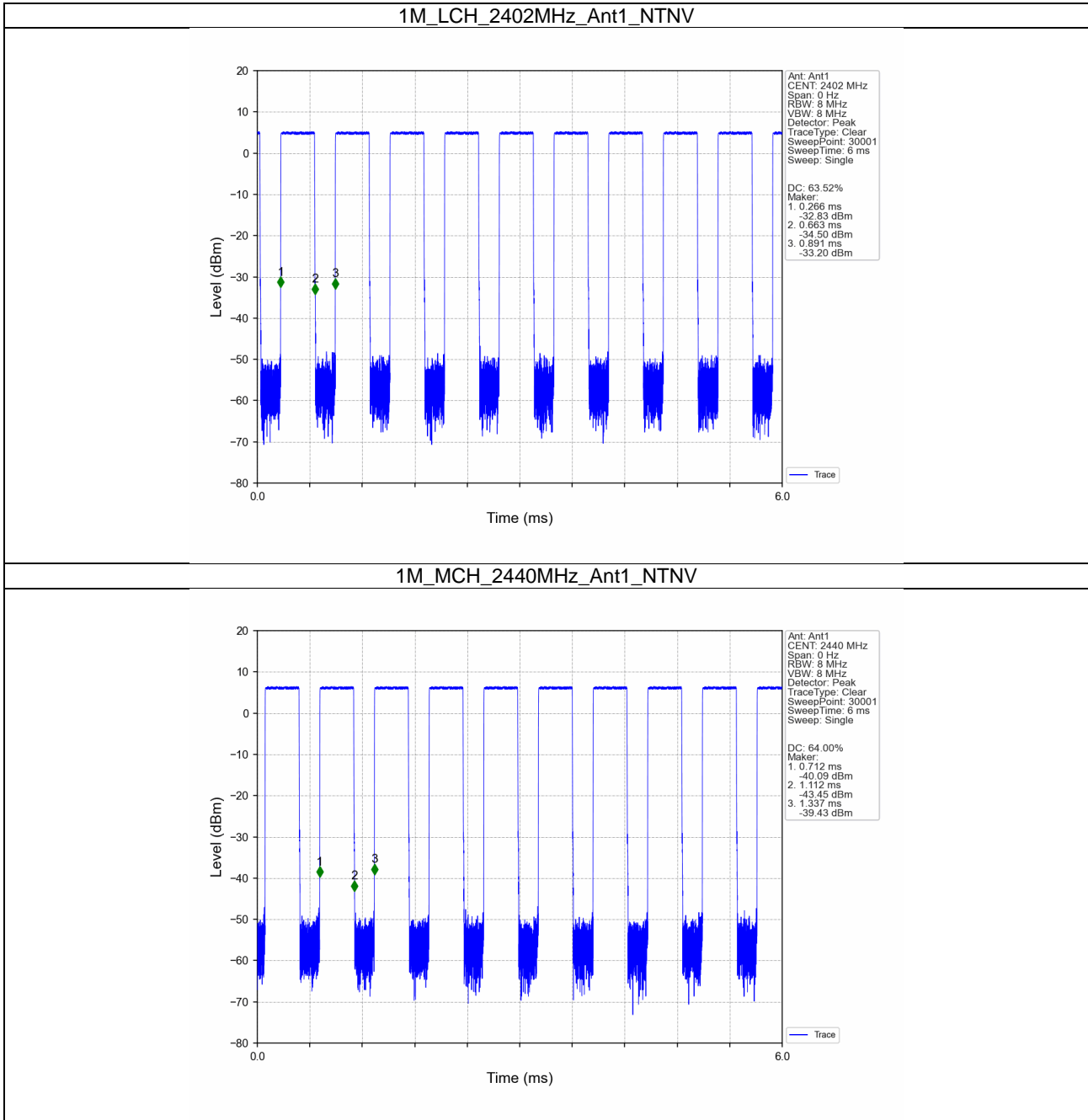
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### 1.2 Test Graph

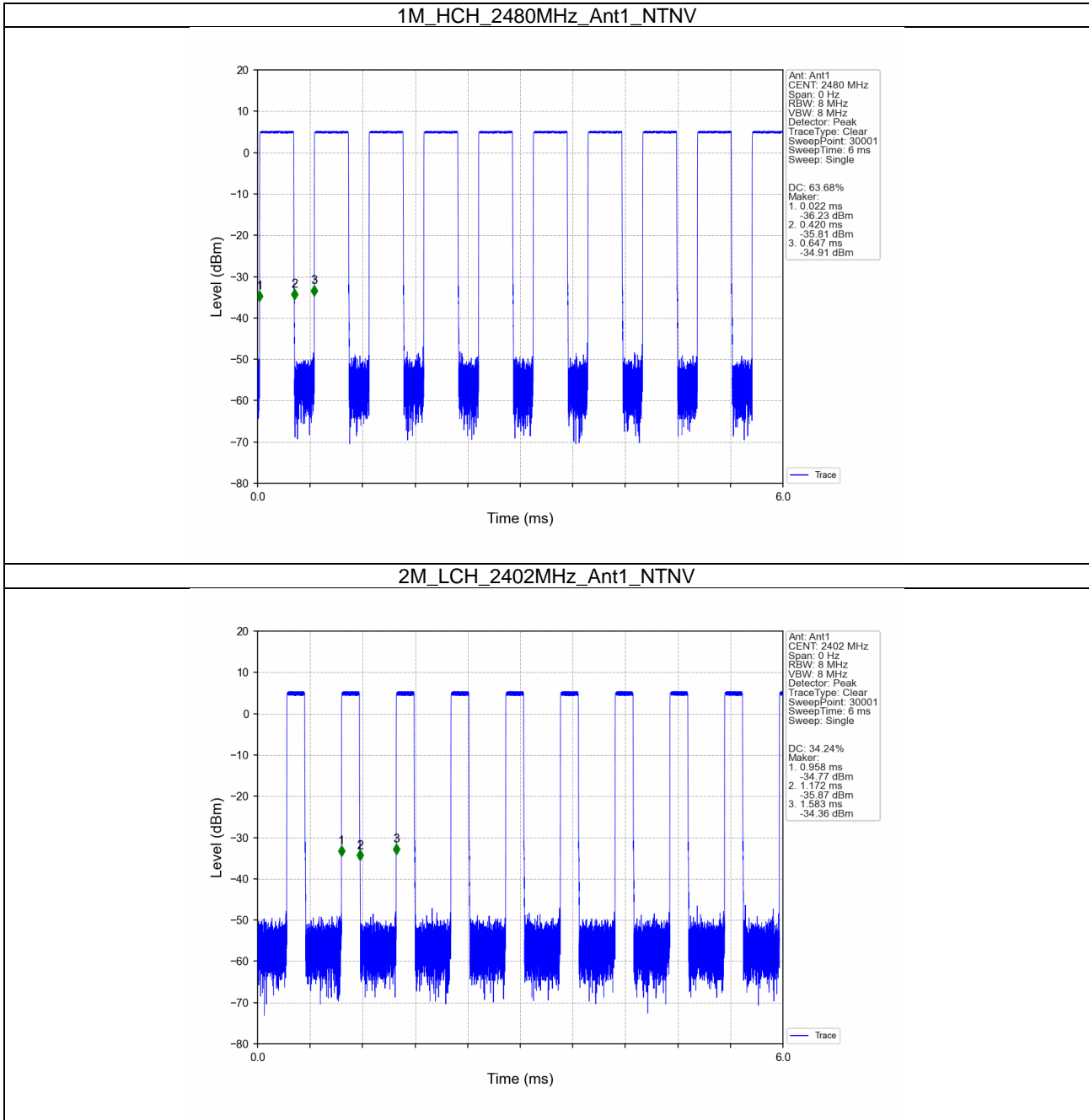
#### 1.2.1 Ant1



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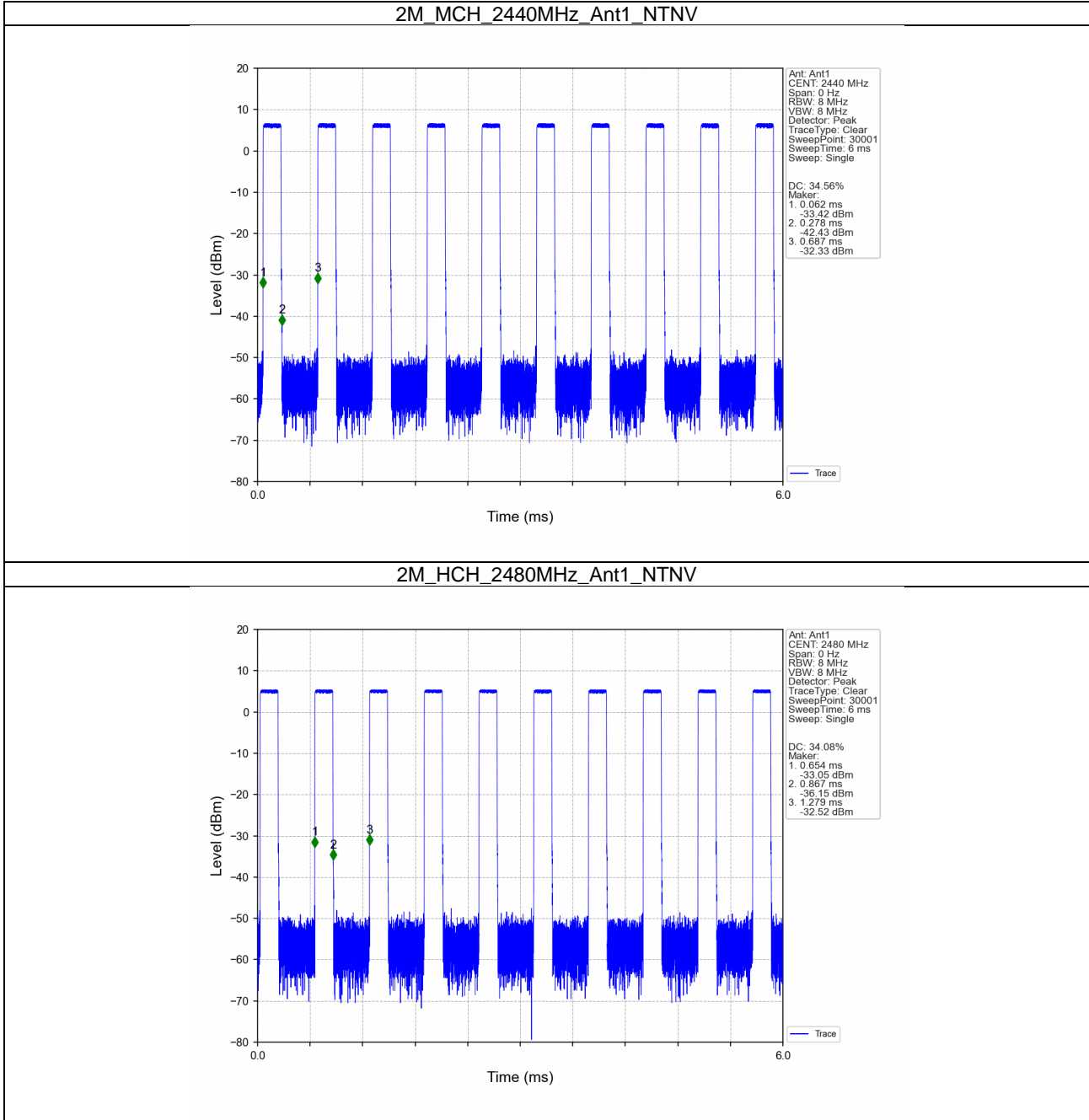
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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.027                        | /     | Pass    |
|      |         | 2440            | 1   | 1.027                        | /     | Pass    |
|      |         | 2480            | 1   | 1.028                        | /     | Pass    |
| 2M   | SISO    | 2402            | 1   | 2.033                        | /     | Pass    |
|      |         | 2440            | 1   | 2.031                        | /     | Pass    |
|      |         | 2480            | 1   | 2.037                        | /     | Pass    |

#### 2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|---------------------|-------|---------|
|      |         |                 |     | Result              | Limit |         |
| 1M   | SISO    | 2402            | 1   | 0.675               | >=0.5 | Pass    |
|      |         | 2440            | 1   | 0.674               | >=0.5 | Pass    |
|      |         | 2480            | 1   | 0.671               | >=0.5 | Pass    |
| 2M   | SISO    | 2402            | 1   | 1.163               | >=0.5 | Pass    |
|      |         | 2440            | 1   | 1.155               | >=0.5 | Pass    |
|      |         | 2480            | 1   | 1.163               | >=0.5 | Pass    |

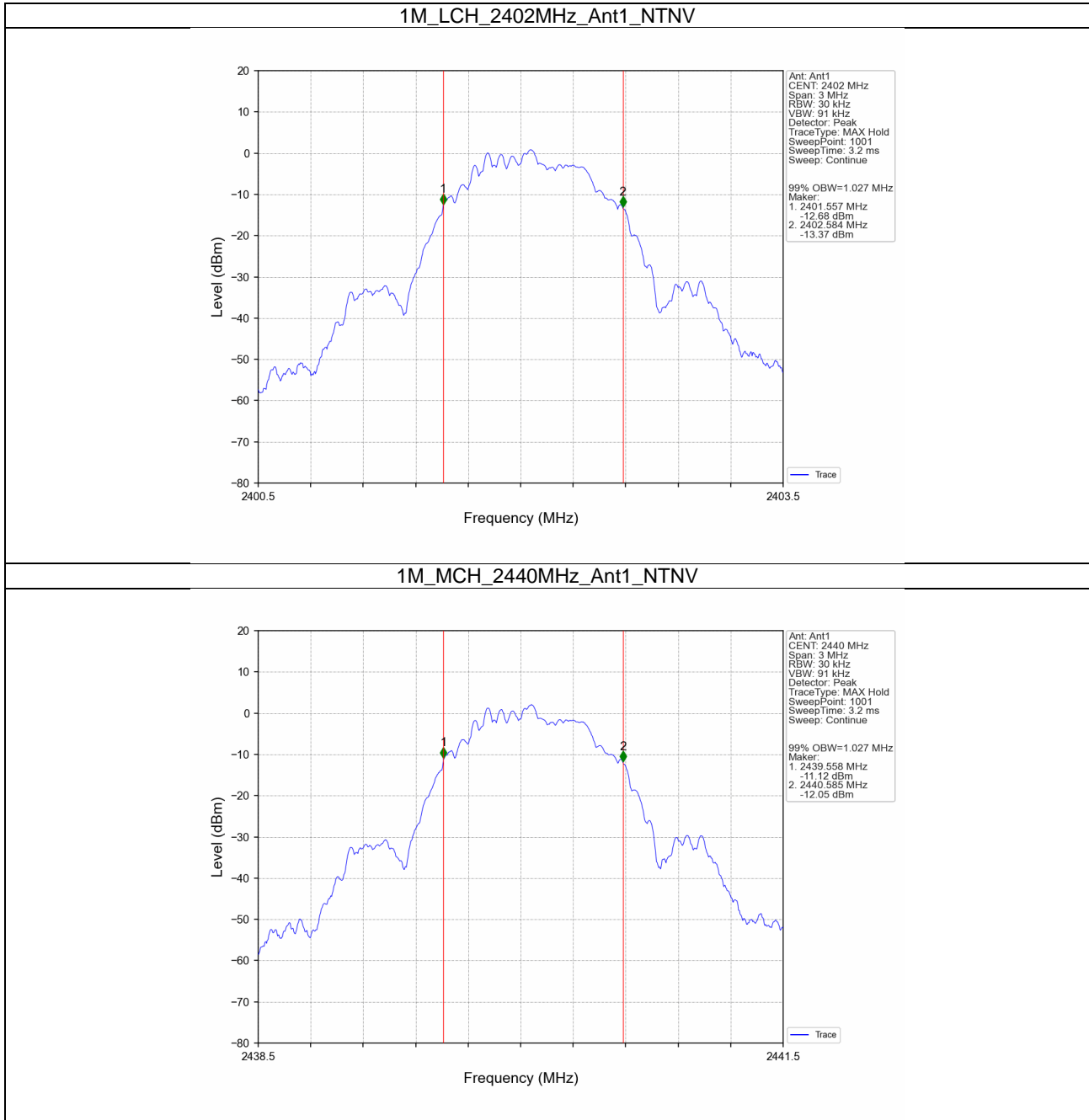
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### 2.2 Test Graph

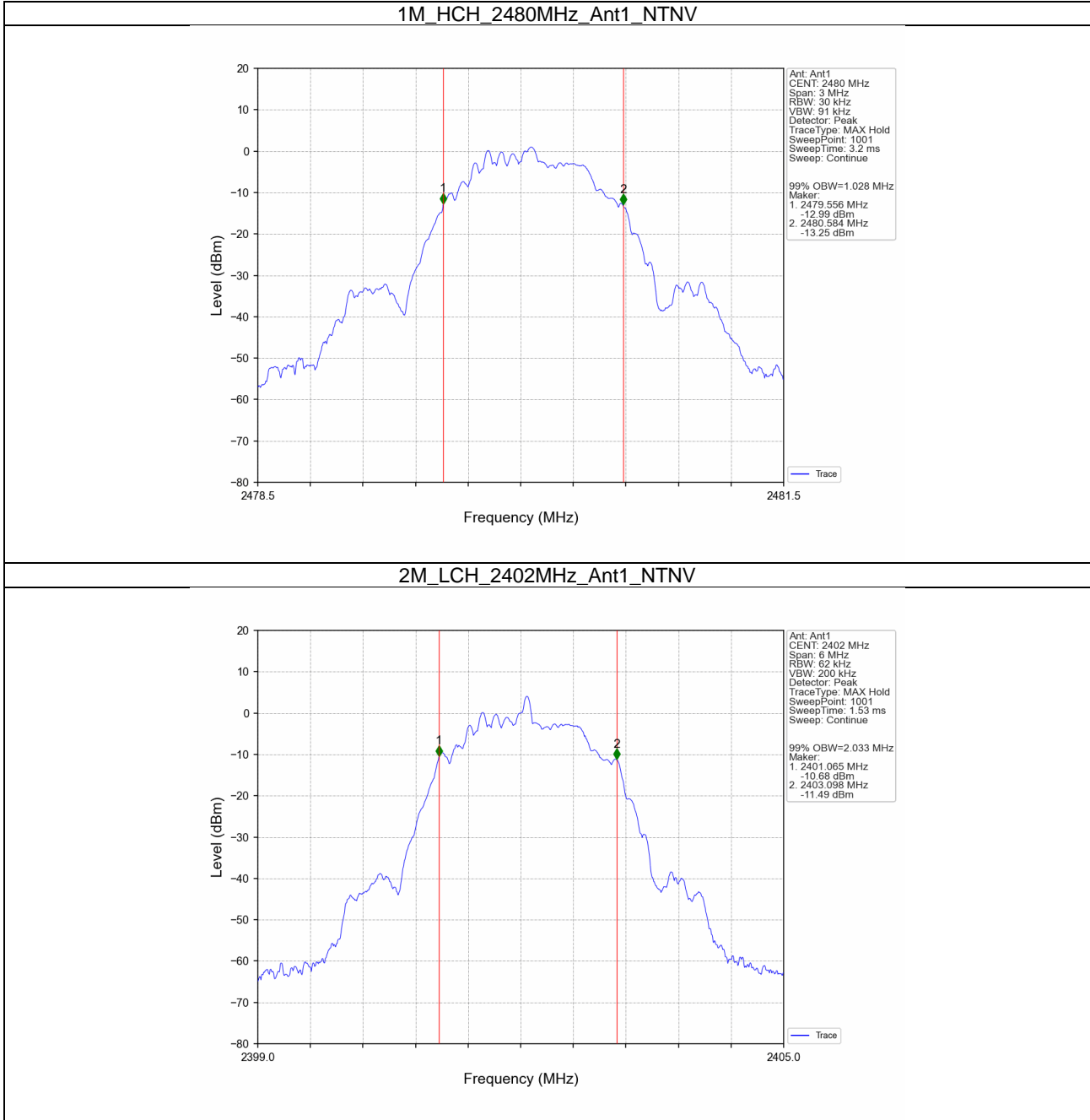
#### 2.2.1 OBW



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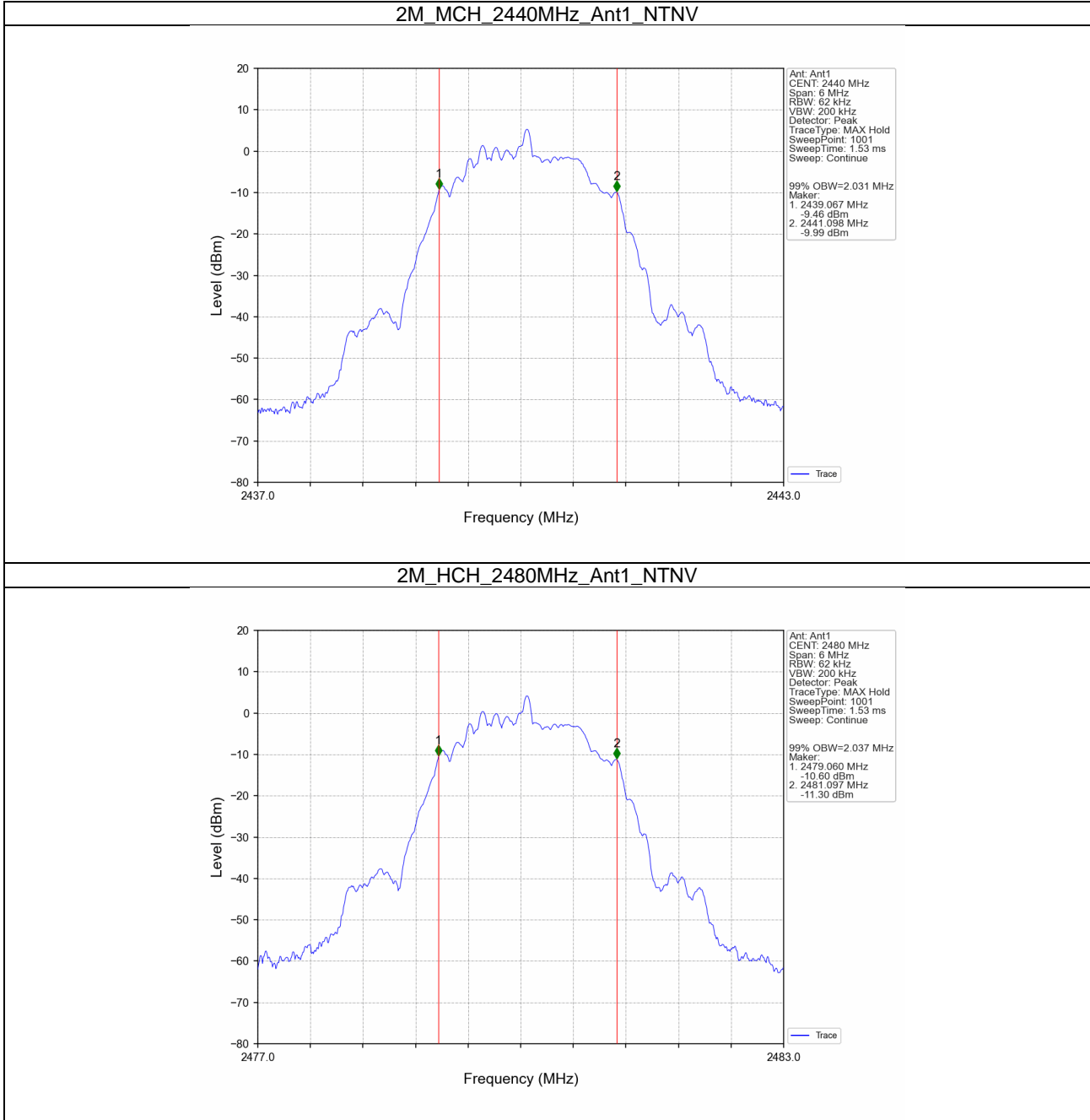
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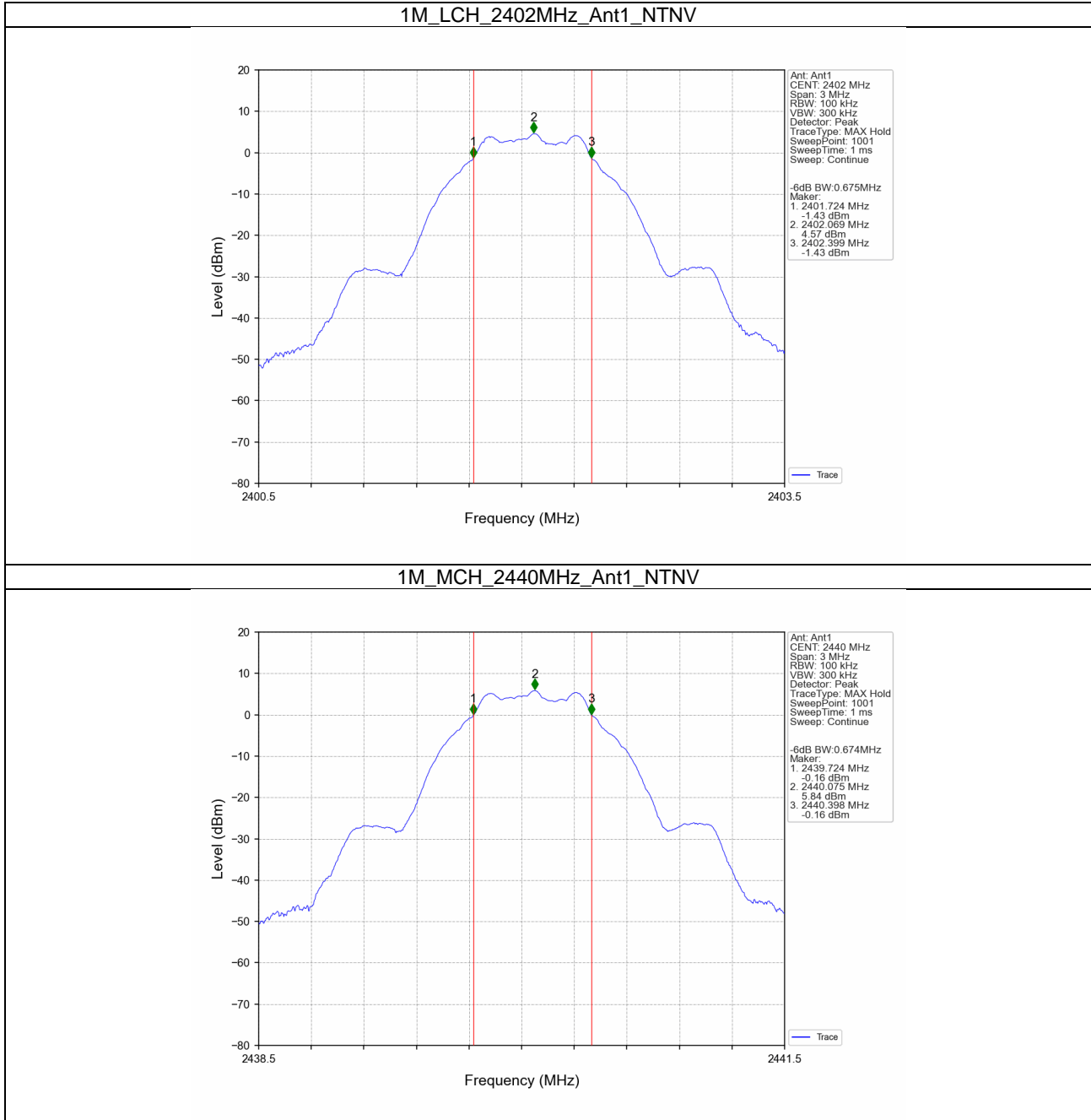
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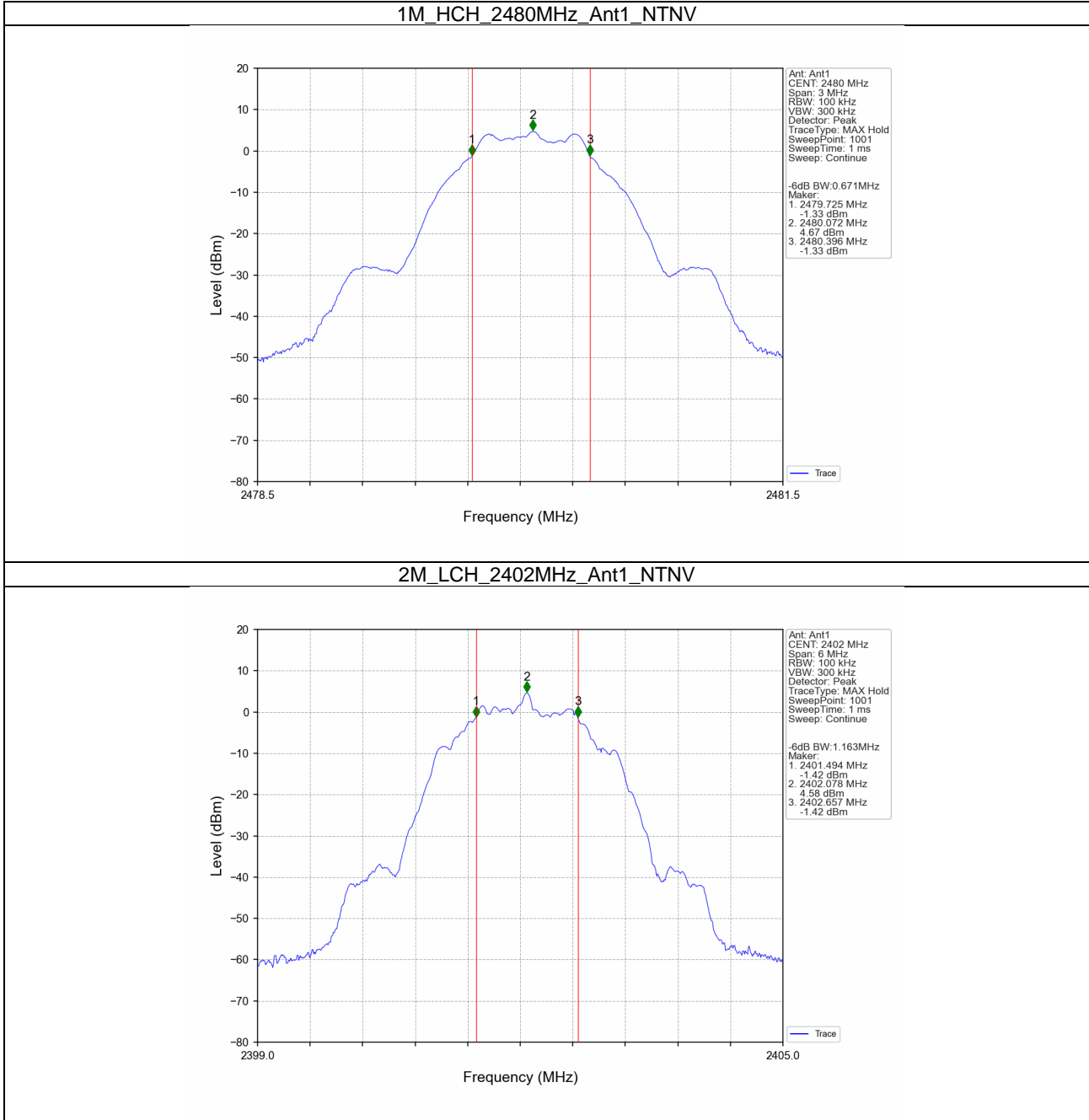
### 2.2.2 6dB BW



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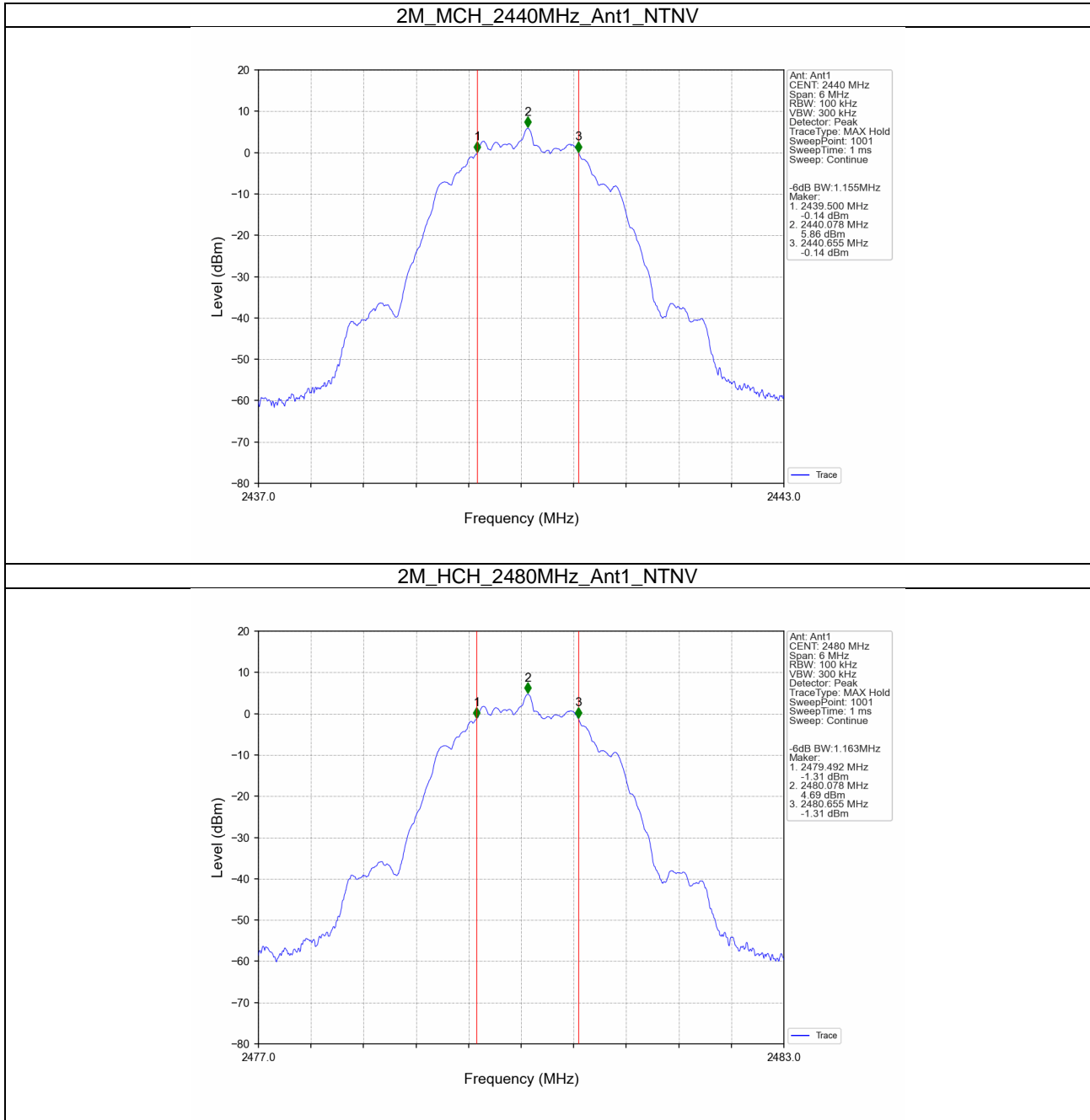
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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|---|-------|---------|
|      |         |                 | ANT1                                      | Limit |         |
| 1M   | SISO    | 2402            | 5.13                                      | <=30  | Pass    |
|      |         | 2440            | 6.39                                      | <=30  | Pass    |
|      |         | 2480            | 5.17                                      | <=30  | Pass    |
| 2M   | SISO    | 2402            | 5.17                                      | <=30  | Pass    |
|      |         | 2440            | 6.41                                      | <=30  | Pass    |
|      |         | 2480            | 5.27                                      | <=30  | Pass    |

Note1: Antenna Gain: Ant1: -0.10dBi;

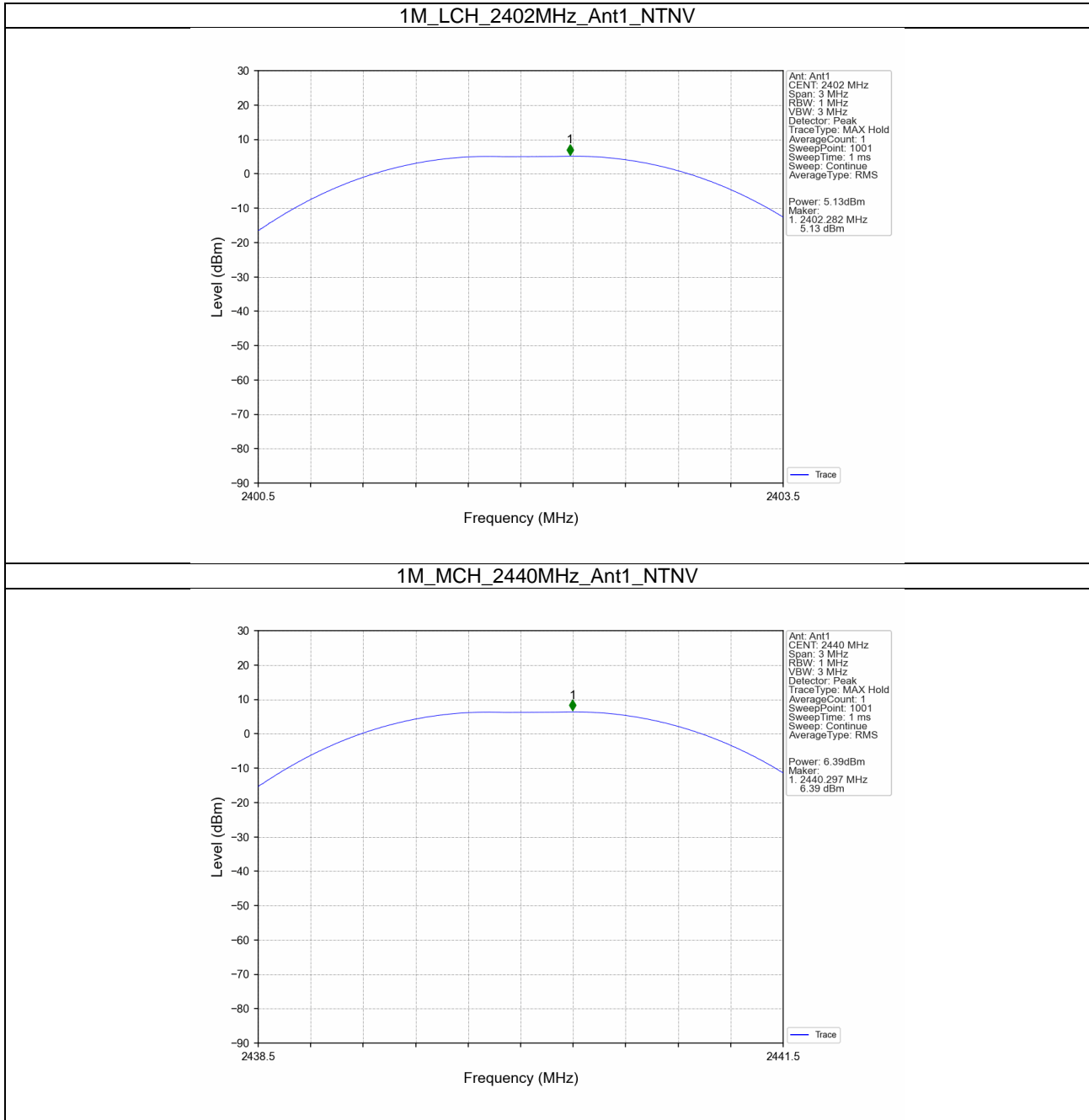
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### 3.2 Test Graph

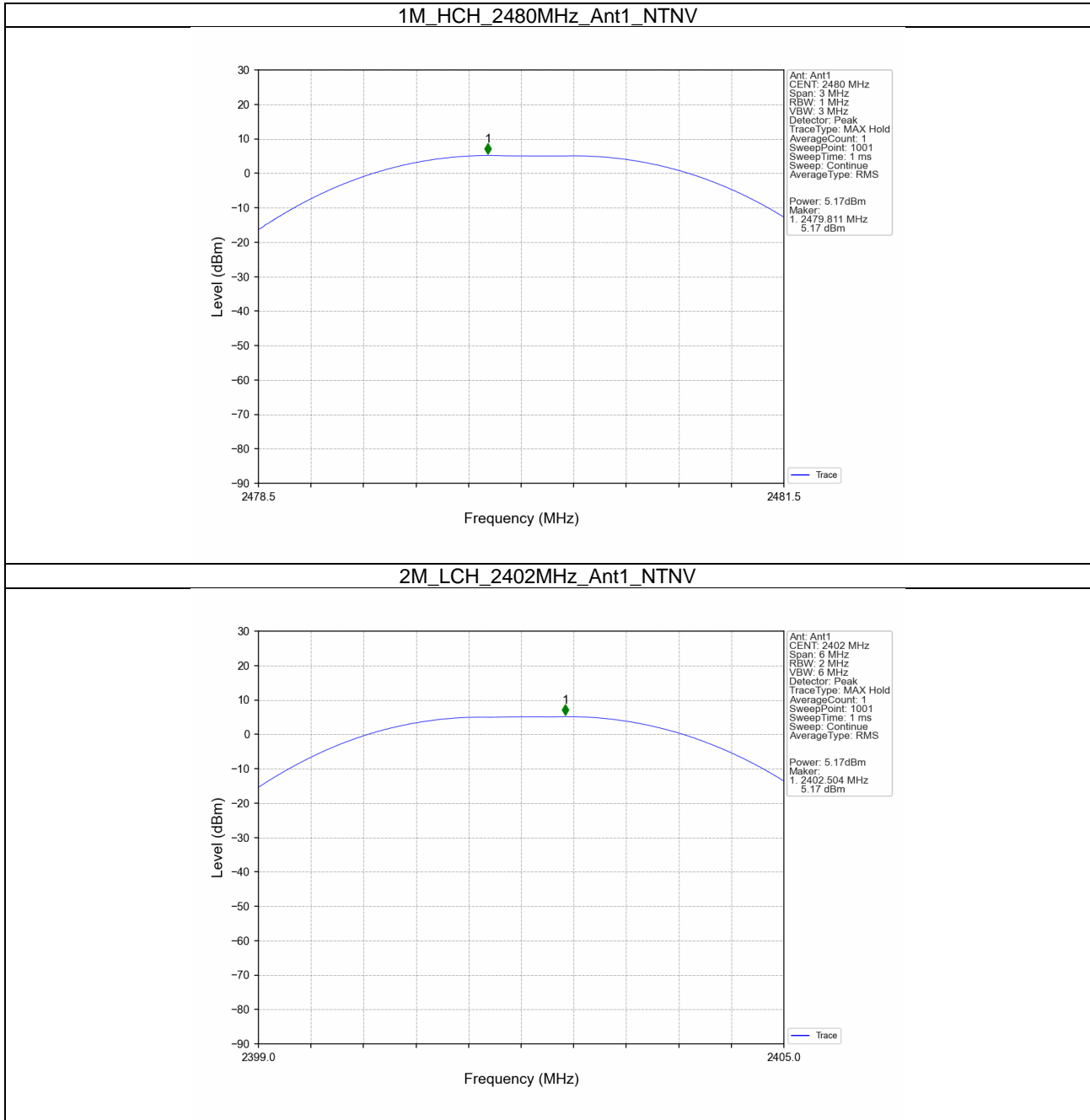
#### 3.2.1 Power



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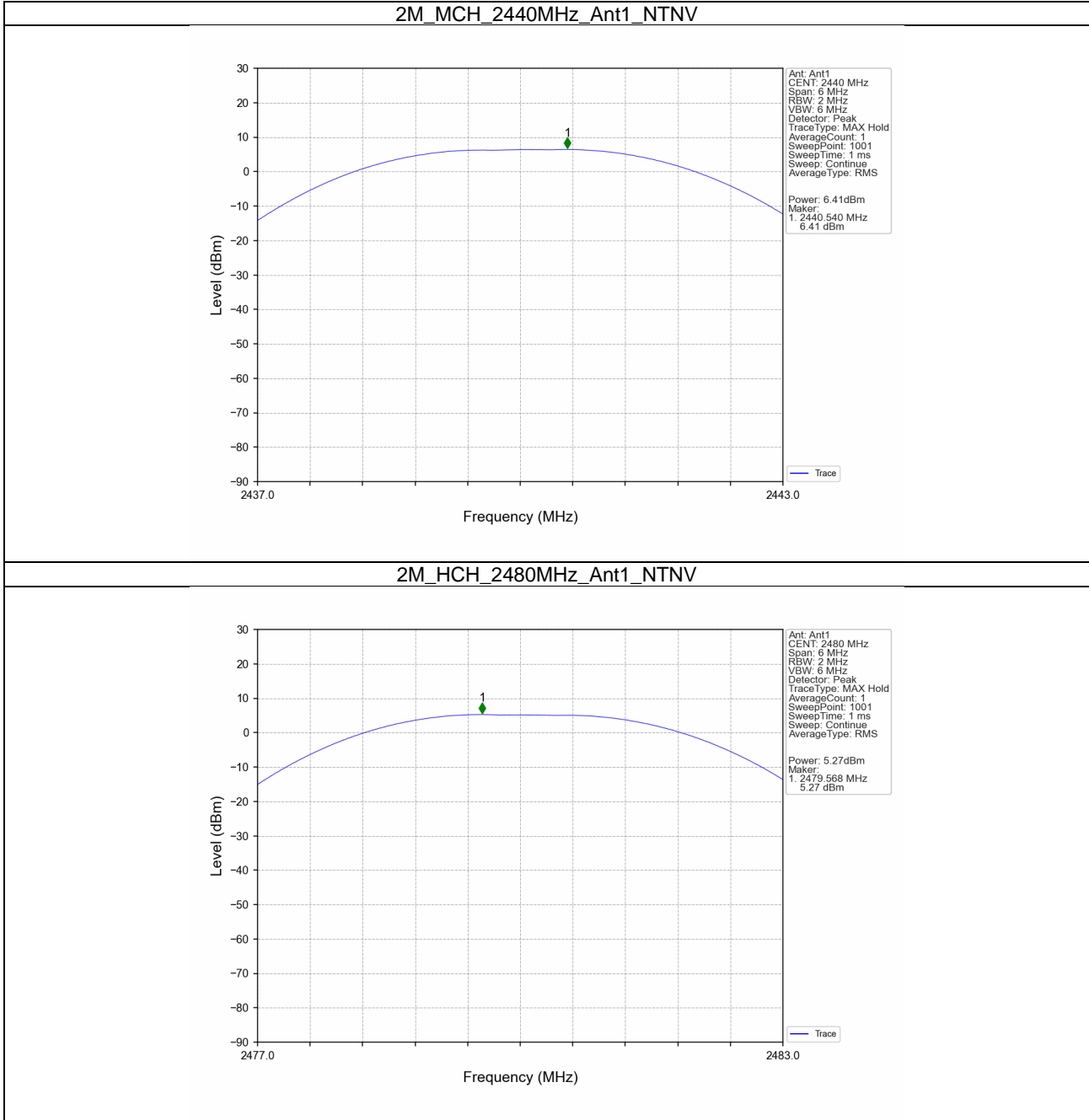
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## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
|      |         |                 | ANT1                   | Limit |         |
| 1M   | SISO    | 2402            | -9.76                  | <=8   | Pass    |
|      |         | 2440            | -8.55                  | <=8   | Pass    |
|      |         | 2480            | -9.67                  | <=8   | Pass    |
| 2M   | SISO    | 2402            | -12.73                 | <=8   | Pass    |
|      |         | 2440            | -11.45                 | <=8   | Pass    |
|      |         | 2480            | -12.68                 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: -0.10dBi;

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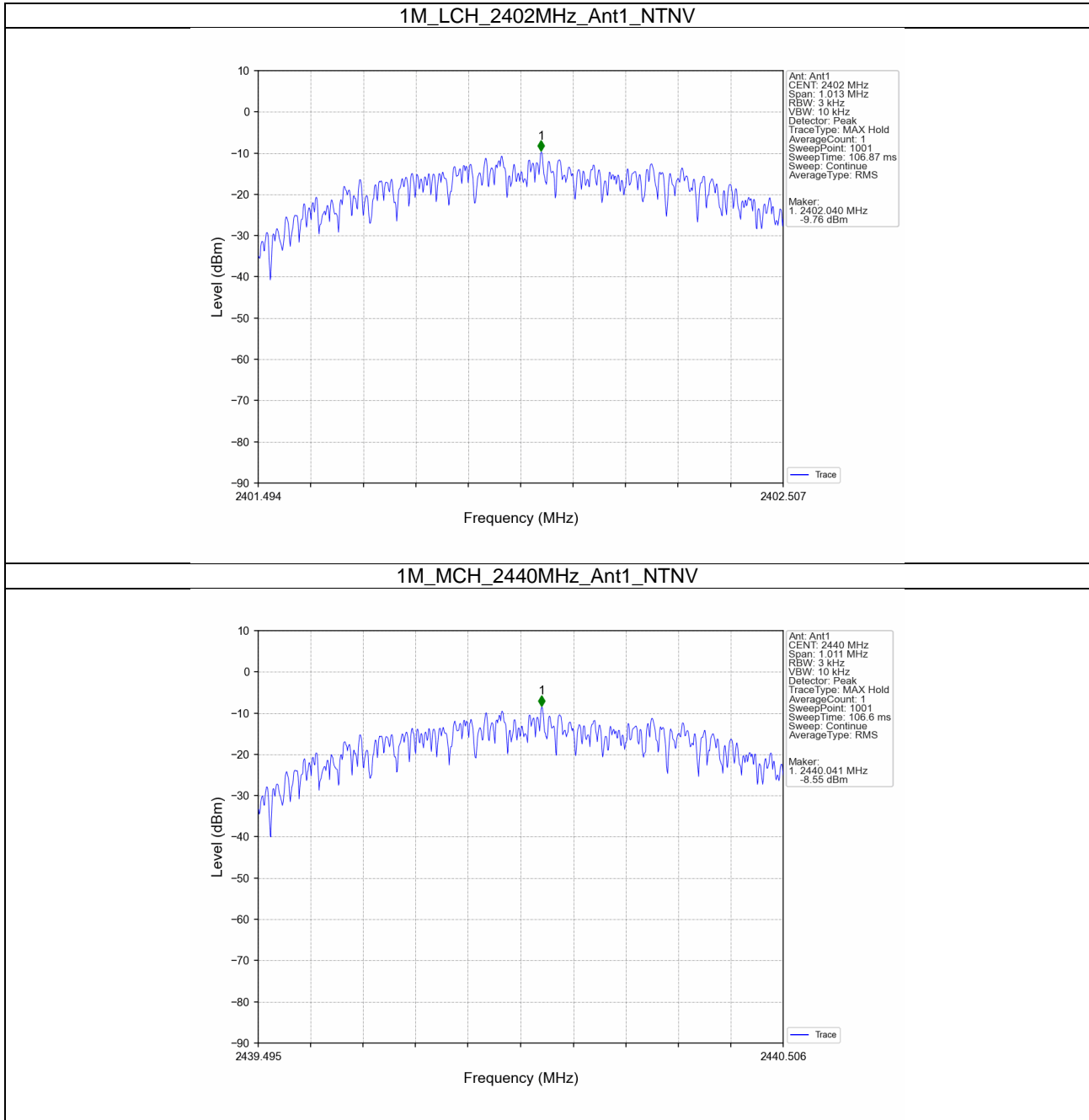
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### 4.2 Test Graph

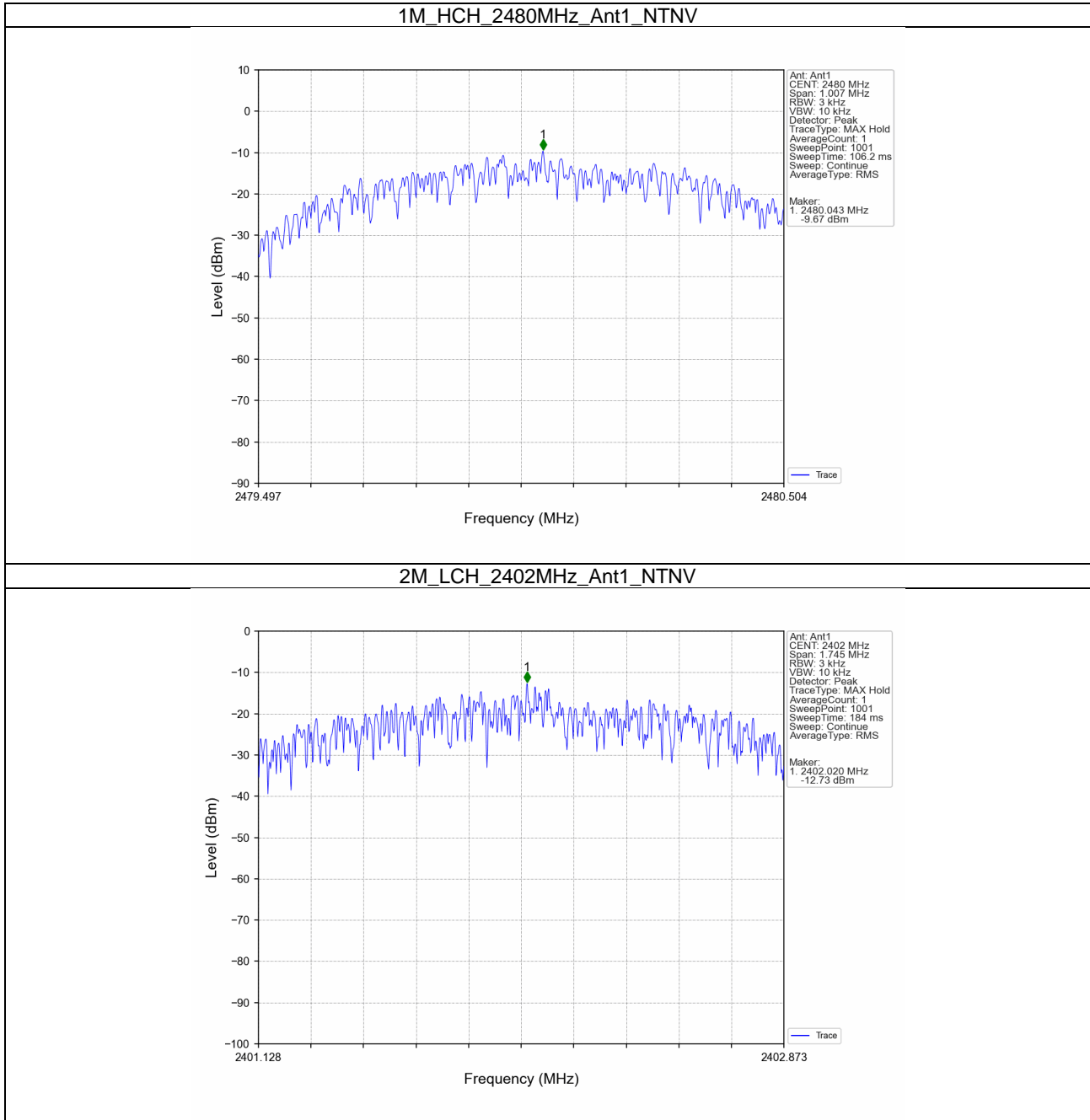
#### 4.2.1 PSD



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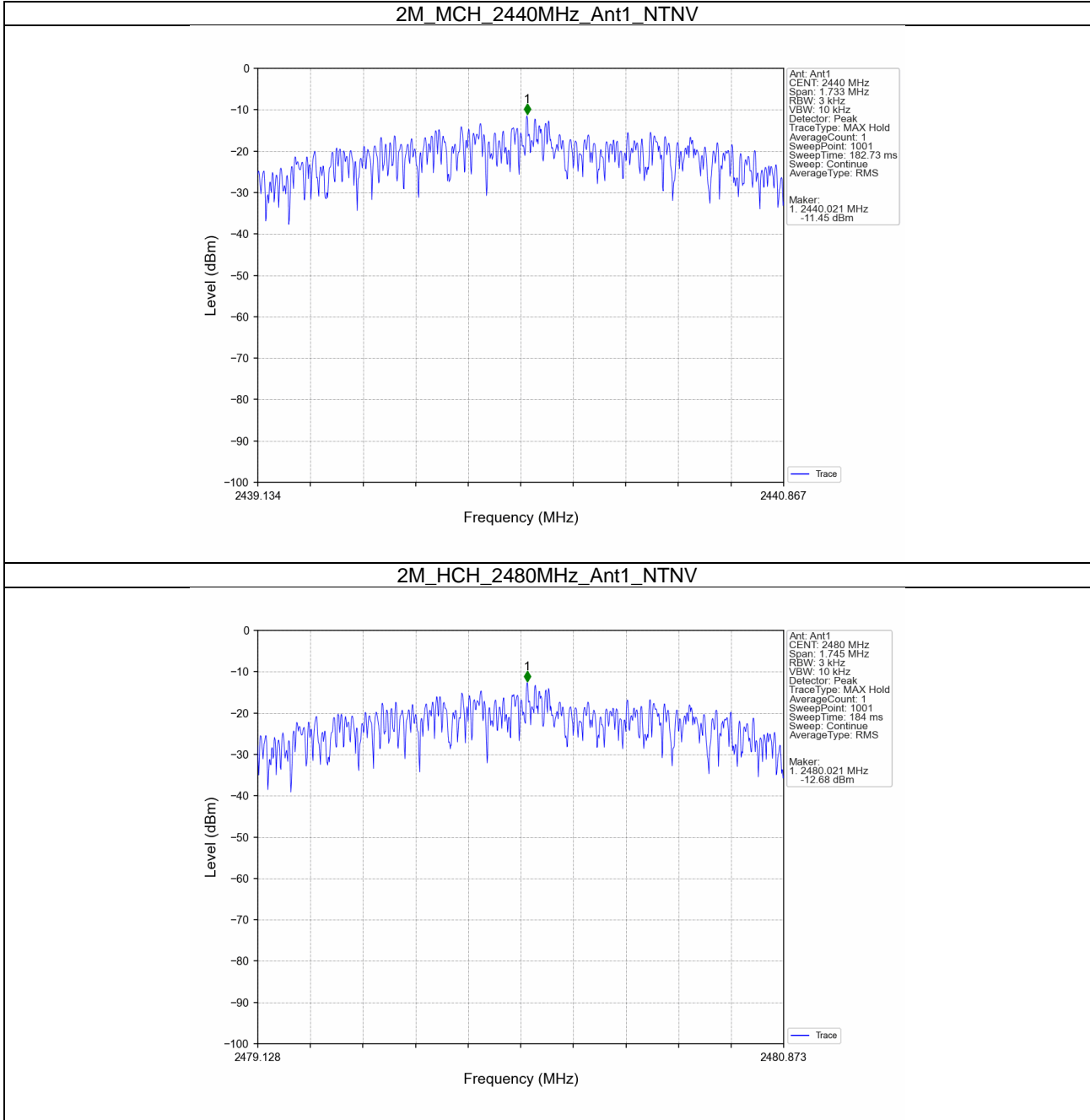
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 1M   | SISO    | 2402            | 1   | 4.55                     |
|      |         | 2440            | 1   | 5.80                     |
|      |         | 2480            | 1   | 4.67                     |
| 2M   | SISO    | 2402            | 1   | 4.56                     |
|      |         | 2440            | 1   | 5.78                     |
|      |         | 2480            | 1   | 4.65                     |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

#### 5.1.2 CSE

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M   | SISO    | 2402            | 1   | 5.80                     | -14.20      | Pass    |
|      |         | 2440            | 1   | 5.80                     | -14.20      | Pass    |
|      |         | 2480            | 1   | 5.80                     | -14.20      | Pass    |
| 2M   | SISO    | 2402            | 1   | 5.78                     | -14.22      | Pass    |
|      |         | 2440            | 1   | 5.78                     | -14.22      | Pass    |
|      |         | 2480            | 1   | 5.78                     | -14.22      | Pass    |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

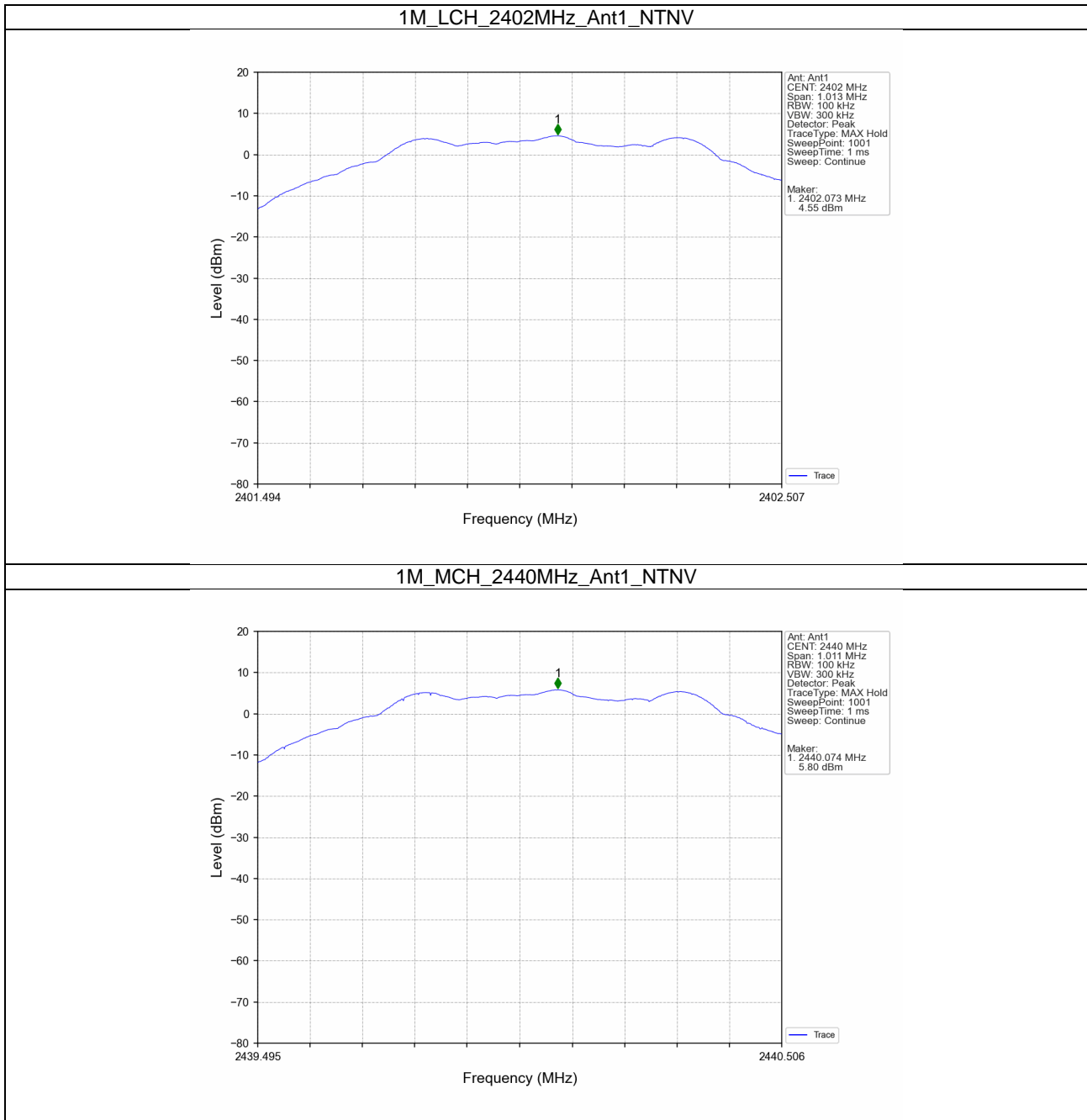
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### 5.2 Test Graph

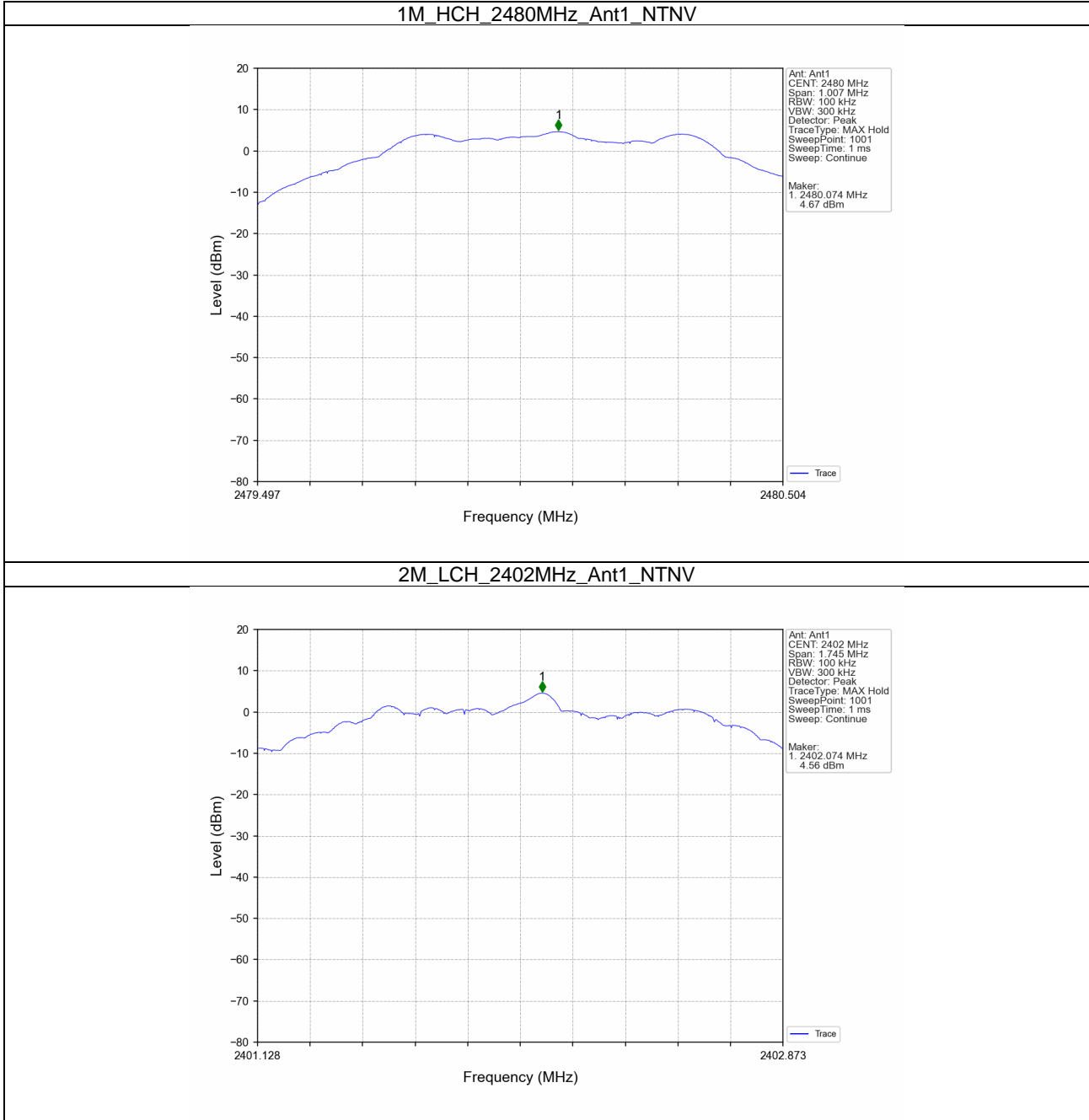
#### 5.2.1 Ref



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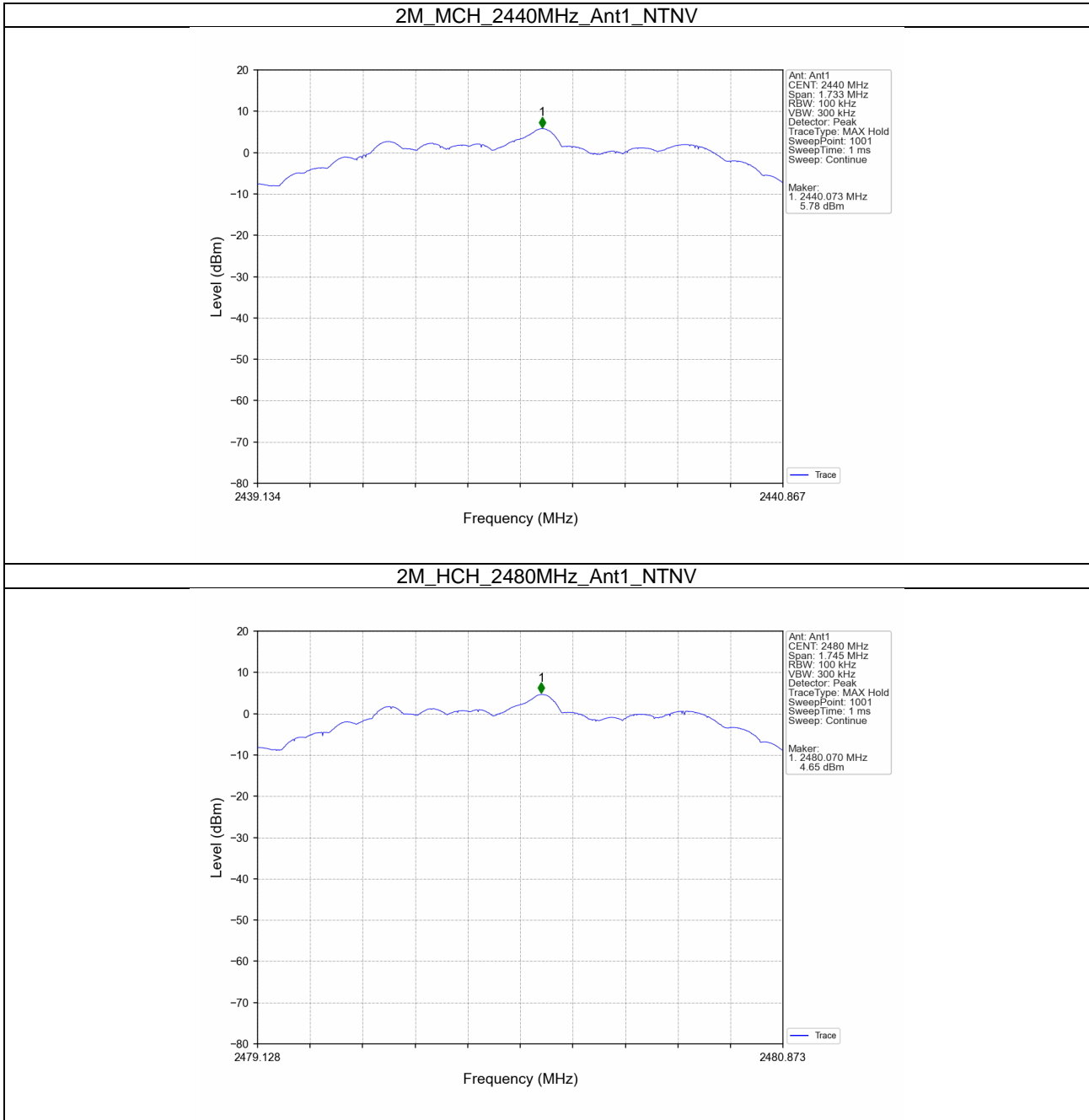
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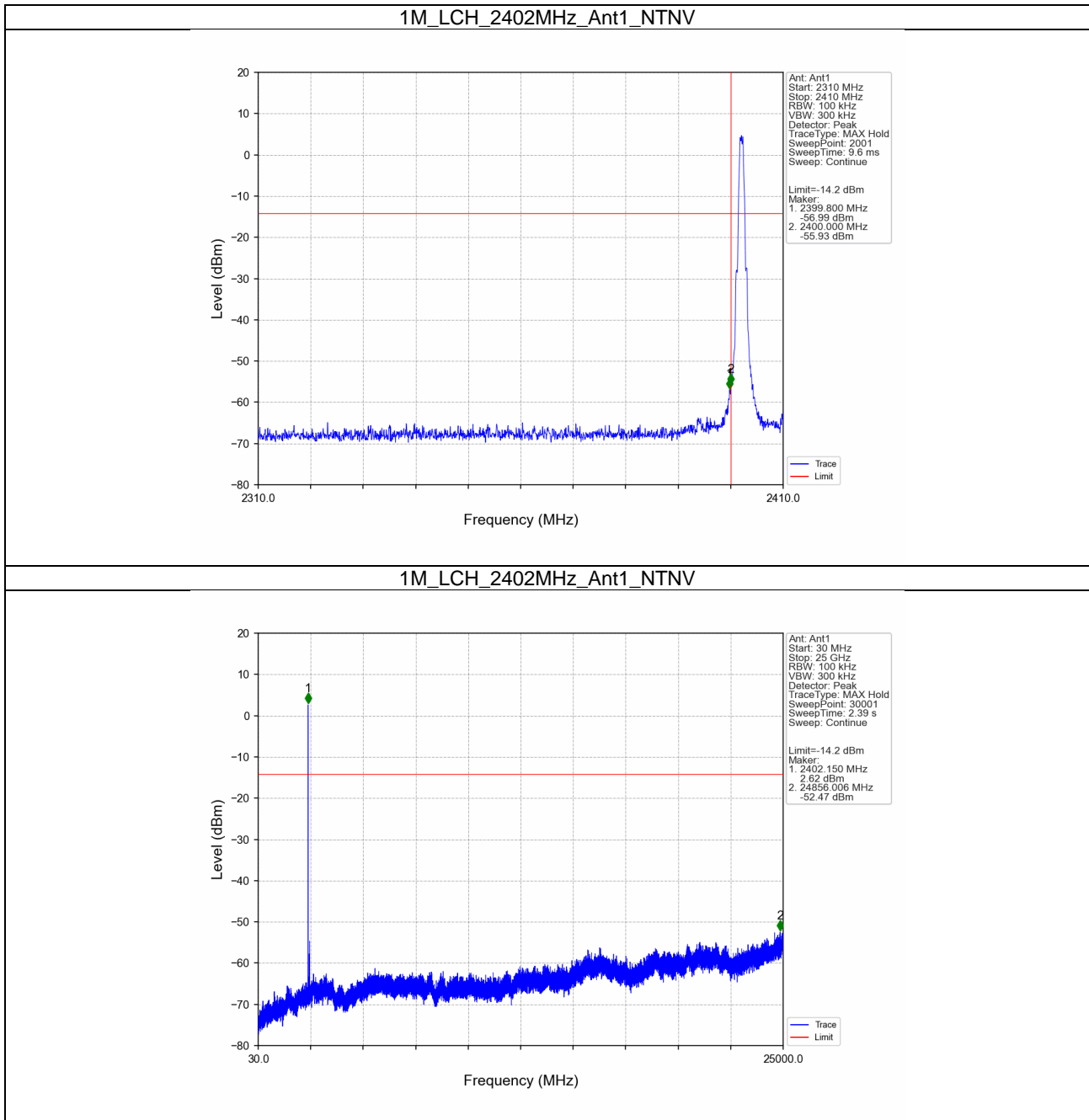


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### 5.2.2 CSE

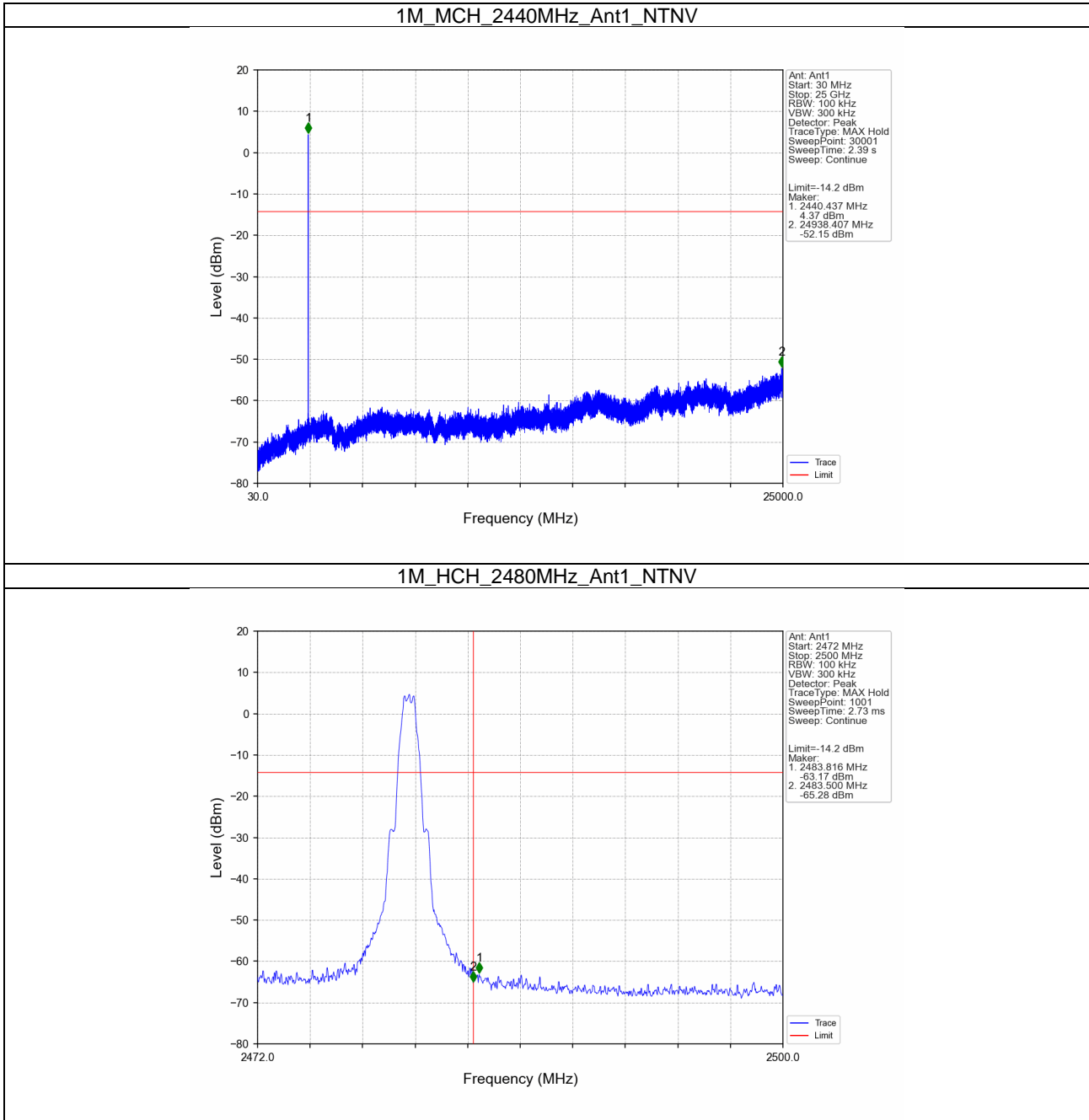


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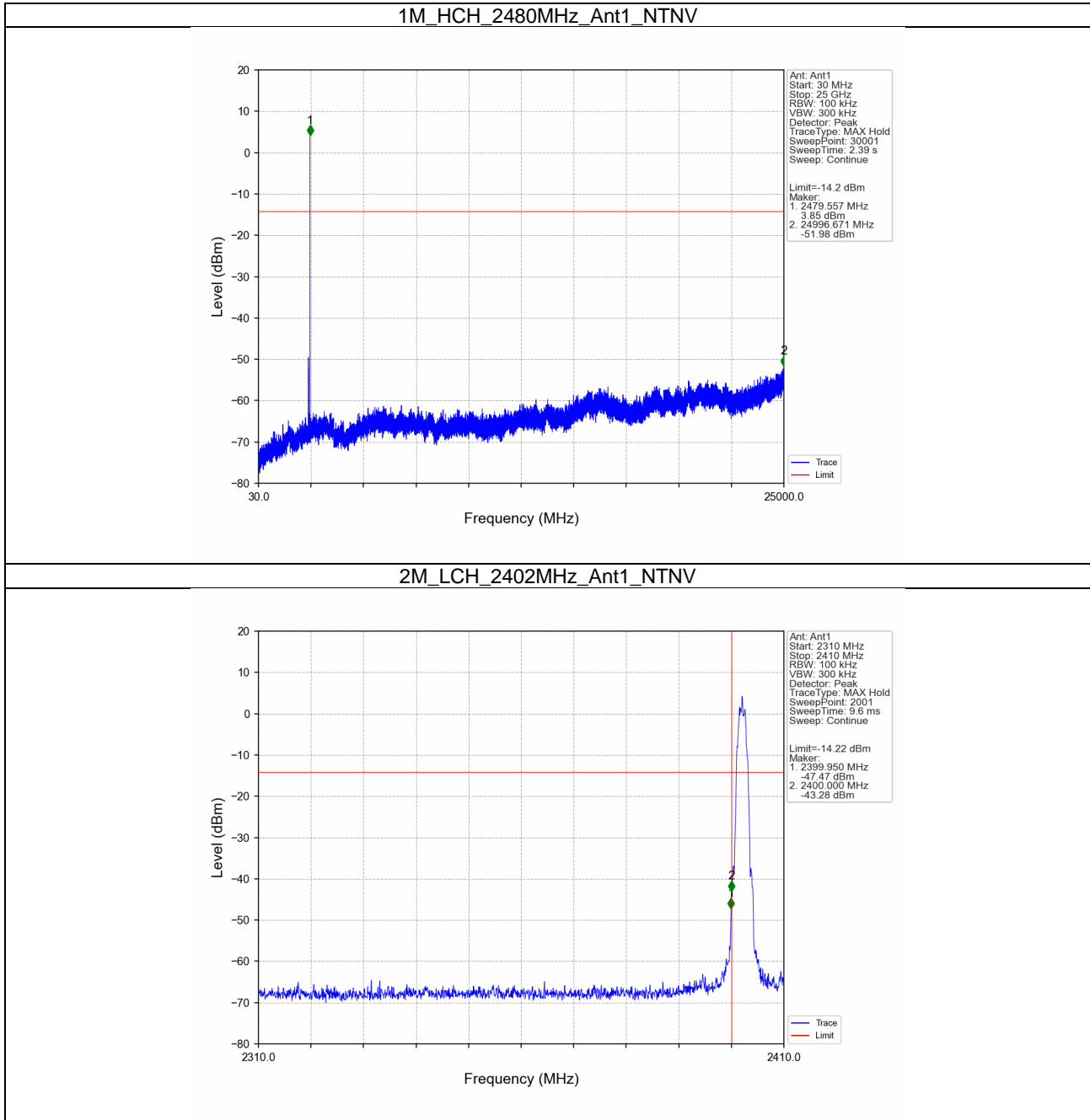




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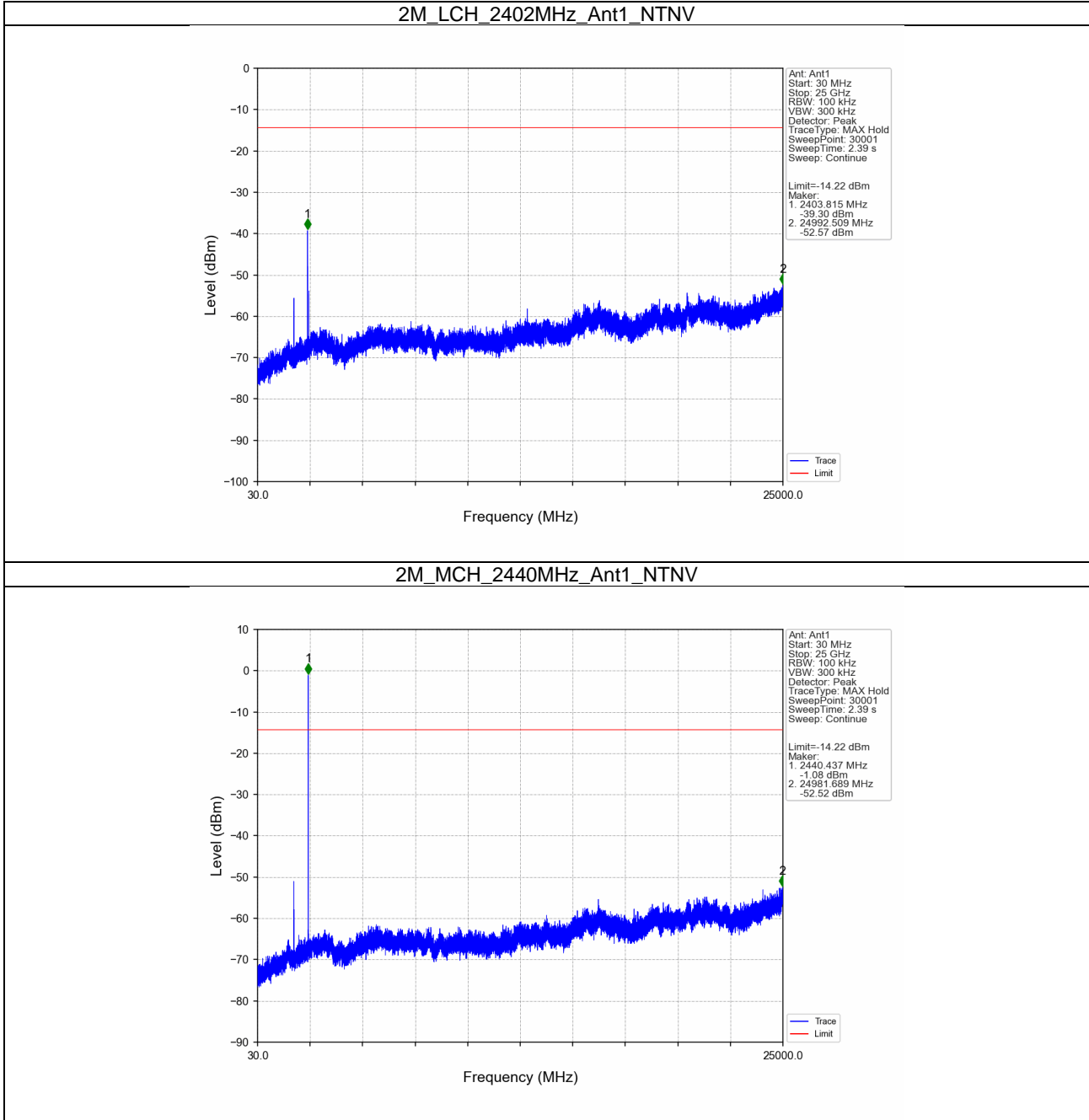
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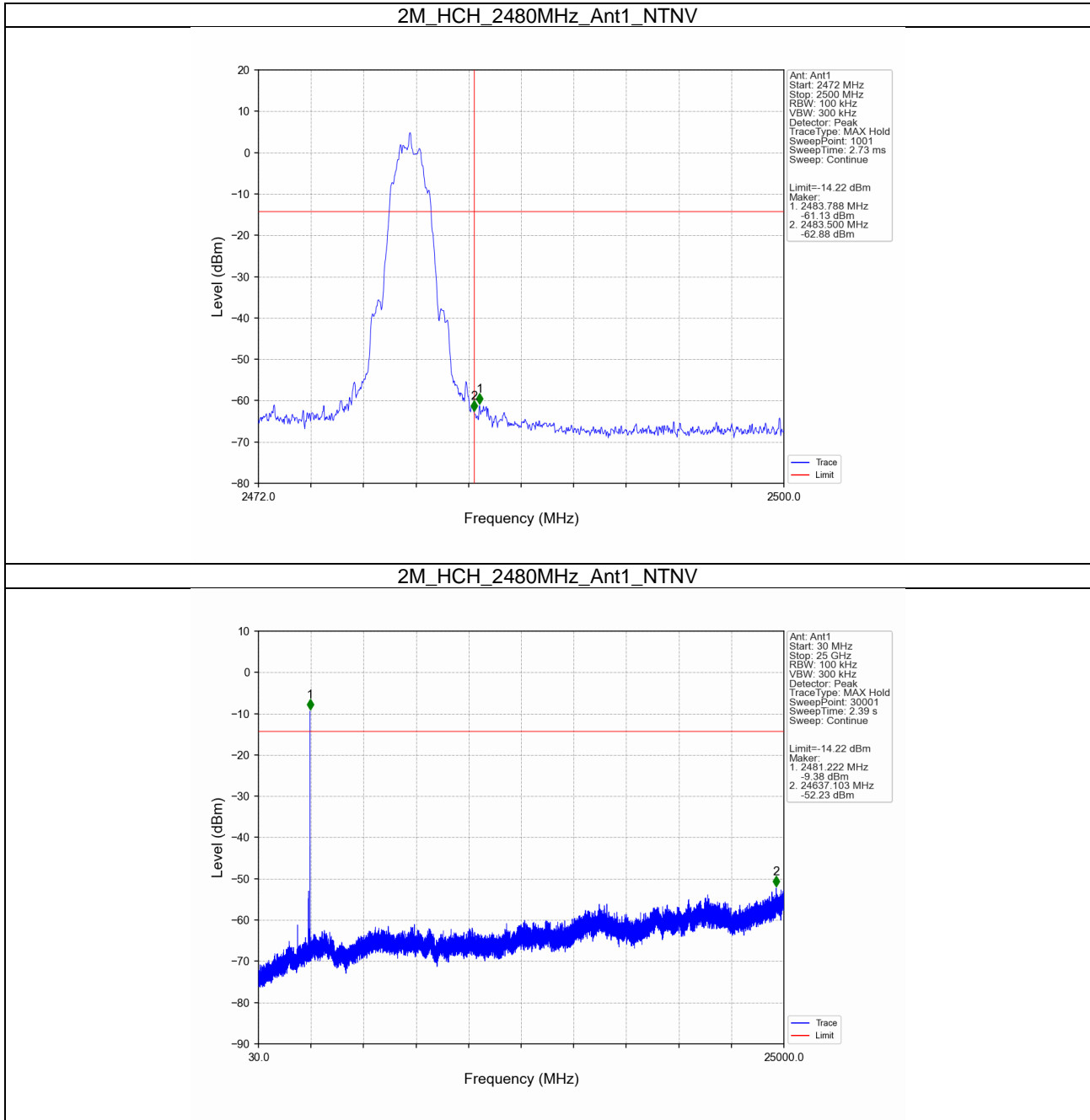
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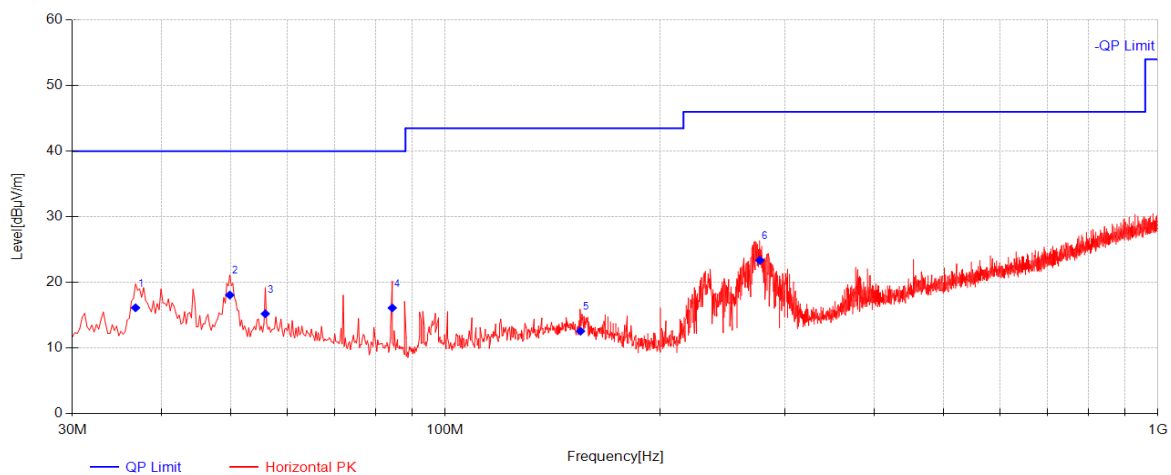
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## Radiated Spurious Emissions

### Radiated emission below 1GHz

#### Worst case Mode: BLE 1M\_Channel 39

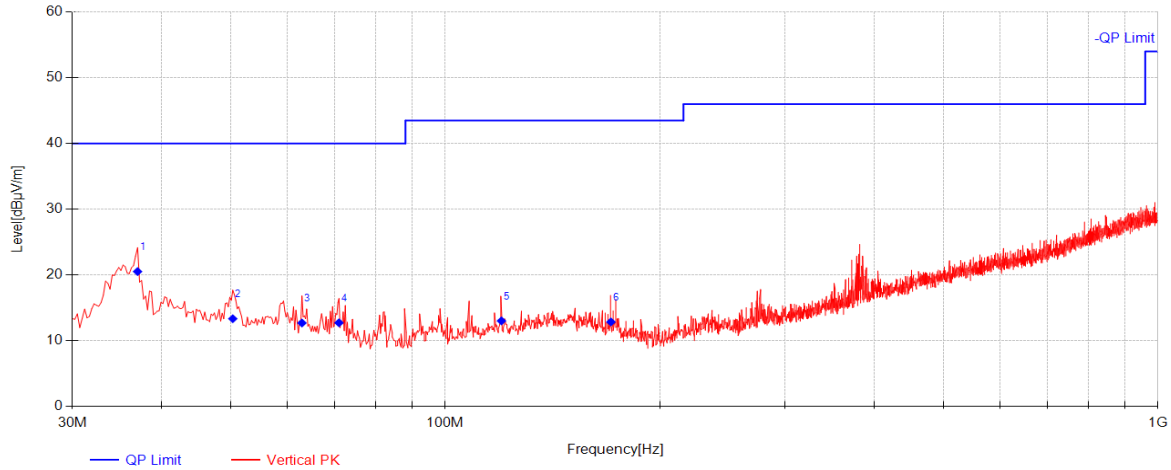


| Final Data List |                 |                |             |           |                   |                   |                |            |
|-----------------|-----------------|----------------|-------------|-----------|-------------------|-------------------|----------------|------------|
| NO.             | Frequency [MHz] | Reading [dBµV] | Factor [dB] | AF [dB/m] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Polarity   |
| 1               | 36.79           | 39.54          | -42.35      | 18.93     | 16.12             | 40.00             | 23.88          | Horizontal |
| 2               | 49.885          | 41.23          | -42.38      | 19.21     | 18.06             | 40.00             | 21.94          | Horizontal |
| 3               | 55.9475         | 38.54          | -42.30      | 18.96     | 15.21             | 40.00             | 24.79          | Horizontal |
| 4               | 84.32           | 42.89          | -41.78      | 14.98     | 16.10             | 40.00             | 23.90          | Horizontal |
| 5               | 154.8875        | 35.03          | -40.86      | 18.38     | 12.55             | 43.50             | 30.95          | Horizontal |
| 6               | 276.38          | 45.99          | -40.40      | 17.76     | 23.35             | 46.00             | 22.65          | Horizontal |

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|-----------------|-----------------|----------------|-------------|-----------|-------------------|-------------------|----------------|----------|
| NO.             | Frequency [MHz] | Reading [dBµV] | Factor [dB] | AF [dB/m] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Polarity |
| 1               | 37.0325         | 43.87          | -42.34      | 18.99     | 20.51             | 40.00             | 19.49          | Vertical |
| 2               | 50.37           | 36.52          | -42.37      | 19.19     | 13.33             | 40.00             | 26.67          | Vertical |
| 3               | 62.98           | 36.58          | -42.19      | 18.29     | 12.68             | 40.00             | 27.32          | Vertical |
| 4               | 70.9825         | 37.85          | -42.06      | 16.91     | 12.71             | 40.00             | 27.29          | Vertical |
| 5               | 119.9675        | 37.46          | -41.76      | 17.30     | 13.00             | 43.50             | 30.50          | Vertical |
| 6               | 170.8925        | 36.45          | -40.93      | 17.32     | 12.84             | 43.50             | 30.66          | Vertical |

Remark:

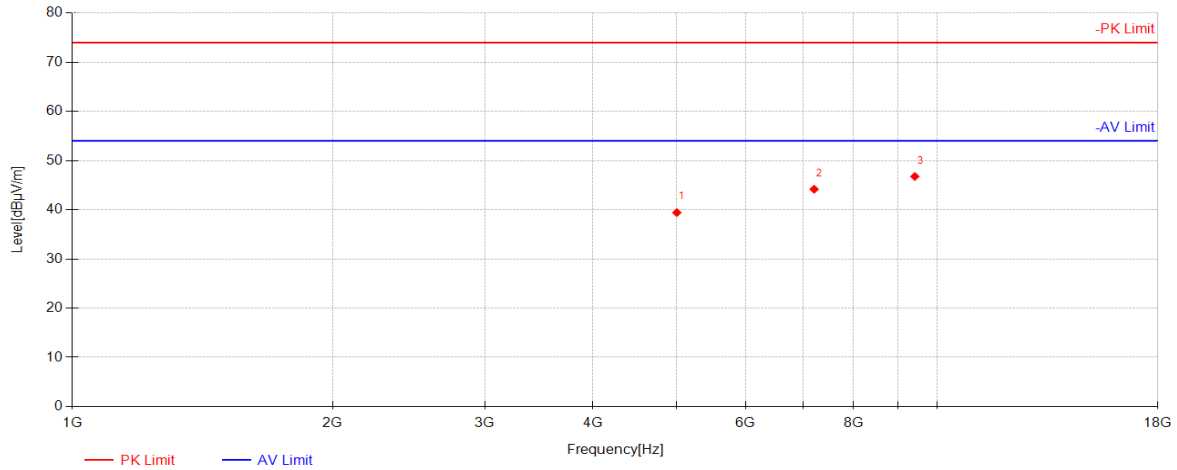
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:  
 $Value = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$   
 $AF = Antenna\ Factor(dB/m)$   
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$   
 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.

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## Transmitter emission Above 1GHz

### BLE 1M\_Channel 00



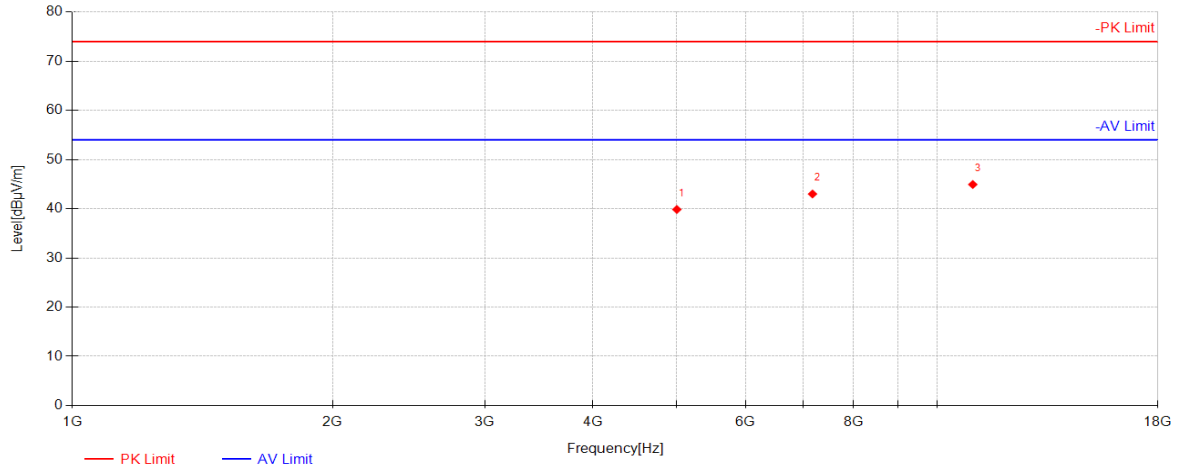
| Data List |                 |                |           |             |                |                |             |             |           |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 5000.25         | 53.66          | 31.40     | -45.64      | 39.42          | 74.00          | 34.58       | 300         | 110       | Horizontal |
| 2         | 7206.75         | 52.04          | 35.58     | -43.44      | 44.18          | 74.00          | 29.82       | 100         | 34        | Horizontal |
| 3         | 9422.625        | 49.35          | 37.35     | -39.92      | 46.77          | 74.00          | 27.23       | 100         | 311       | Horizontal |

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BLE 1M\_Channel 00



| Data List |                 |                |           |             |                |                |             |             |           |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 5000.25         | 54.10          | 31.40     | -45.64      | 39.86          | 74.00          | 34.14       | 300         | 359       | Vertical |
| 2         | 7175.625        | 51.13          | 35.49     | -43.61      | 43.01          | 74.00          | 30.99       | 300         | 313       | Vertical |
| 3         | 10995           | 44.18          | 38.60     | -37.84      | 44.94          | 74.00          | 29.06       | 300         | 360       | Vertical |

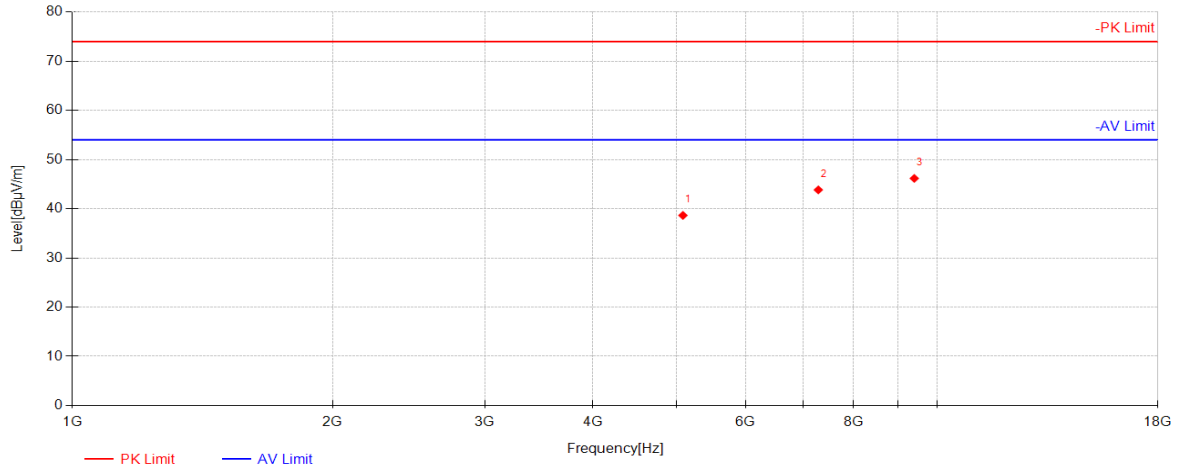
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BLE 1M\_Channel 19



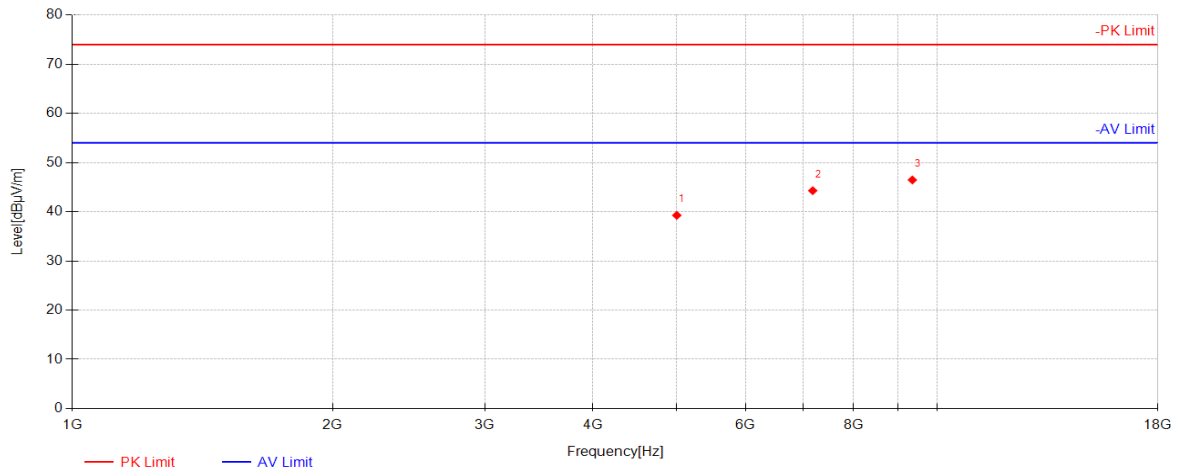
| Data List |                 |                |           |             |                |                |             |             |           |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 5082            | 52.52          | 31.55     | -45.42      | 38.65          | 74.00          | 35.35       | 100         | 173       | Horizontal |
| 2         | 7287.75         | 51.74          | 35.81     | -43.71      | 43.84          | 74.00          | 30.16       | 100         | 209       | Horizontal |
| 3         | 9409.5          | 48.73          | 37.32     | -39.87      | 46.18          | 74.00          | 27.82       | 100         | 68        | Horizontal |

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BLE 1M\_Channel 19



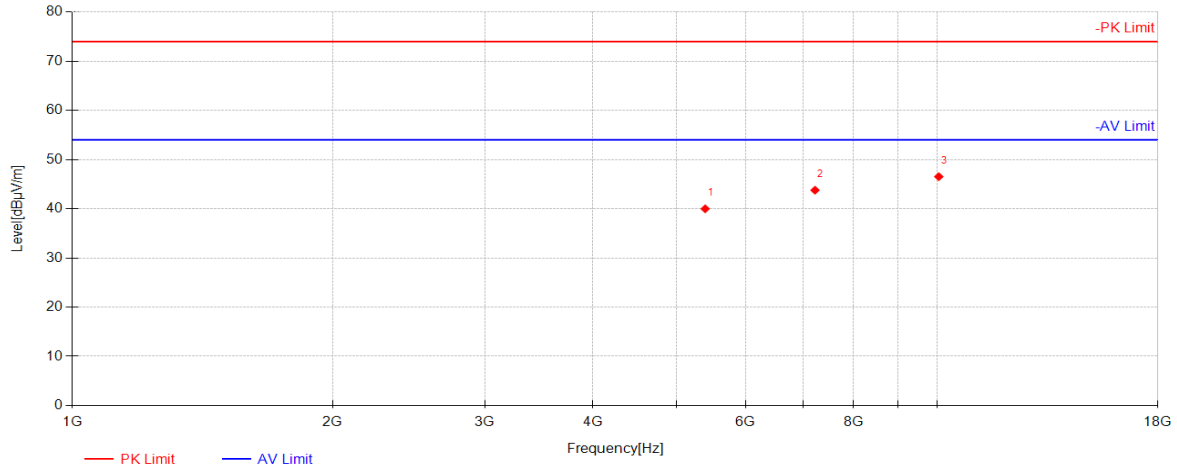
| Data List |                 |                |           |             |                |                |             |             |           |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 4999.875        | 53.51          | 31.40     | -45.64      | 39.27          | 74.00          | 34.73       | 100         | 69        | Vertical |
| 2         | 7180.125        | 52.36          | 35.50     | -43.58      | 44.29          | 74.00          | 29.71       | 100         | 175       | Vertical |
| 3         | 9361.875        | 49.22          | 37.22     | -39.98      | 46.47          | 74.00          | 27.53       | 100         | 360       | Vertical |

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BLE 1M\_Channel 39



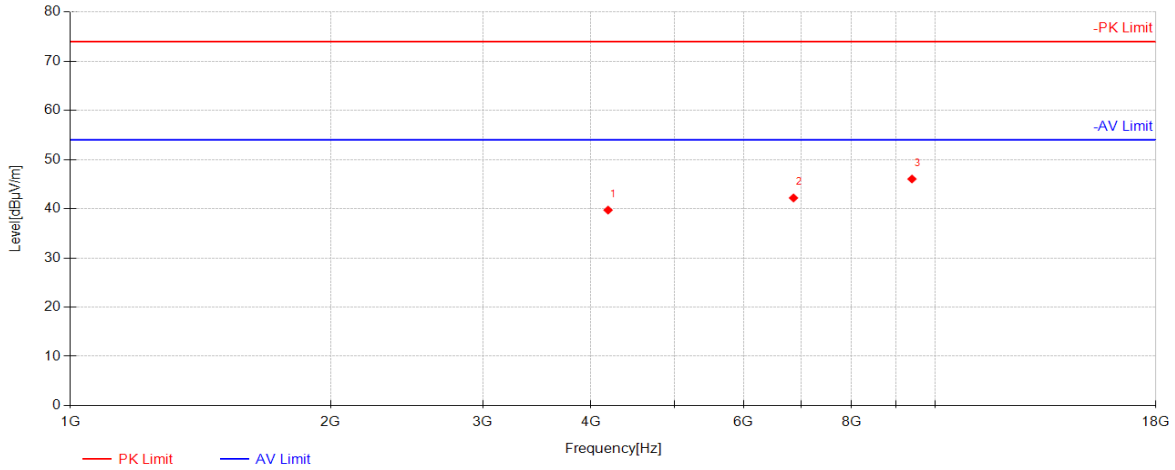
| Data List |                 |                |           |             |                |                |             |             |           |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 5392.125        | 53.17          | 32.11     | -45.28      | 39.99          | 74.00          | 34.01       | 100         | 67        | Horizontal |
| 2         | 7224            | 51.65          | 35.63     | -43.50      | 43.78          | 74.00          | 30.22       | 100         | 67        | Horizontal |
| 3         | 10044.75        | 47.21          | 38.50     | -39.19      | 46.53          | 74.00          | 27.47       | 100         | 359       | Horizontal |

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BLE 1M\_Channel 39



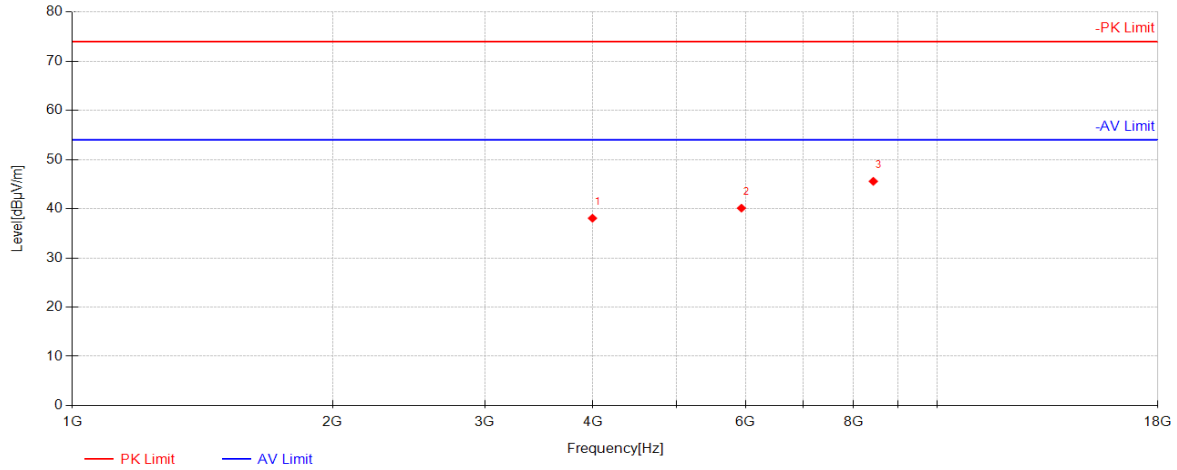
| Data List |                 |                |           |             |                |                |             |             |           |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 4185.75         | 55.65          | 29.85     | -45.77      | 39.73          | 74.00          | 34.27       | 100         | 35        | Vertical |
| 2         | 6858.75         | 51.58          | 34.75     | -44.13      | 42.20          | 74.00          | 31.80       | 100         | 316       | Vertical |
| 3         | 9401.25         | 48.58          | 37.30     | -39.84      | 46.05          | 74.00          | 27.95       | 100         | 280       | Vertical |

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BLE 2M\_Channel 00



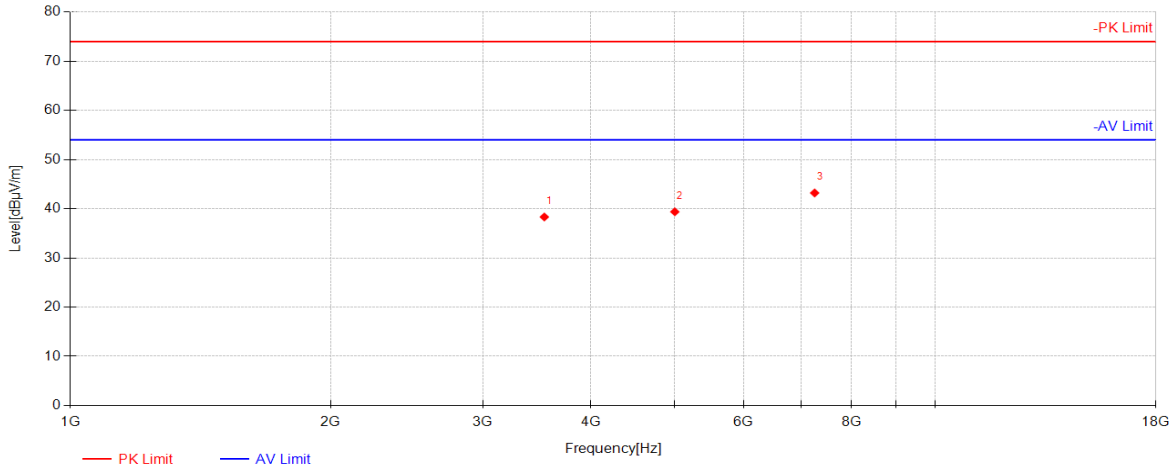
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|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 3994.125        | 54.73          | 29.39     | -46.05      | 38.07          | 74.00          | 35.93       | 100         | 103       | Horizontal |
| 2         | 5938.875        | 52.66          | 32.39     | -44.92      | 40.13          | 74.00          | 33.87       | 100         | 360       | Horizontal |
| 3         | 8437.125        | 50.26          | 36.84     | -41.51      | 45.58          | 74.00          | 28.42       | 100         | 279       | Horizontal |

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BLE 2M\_Channel 00



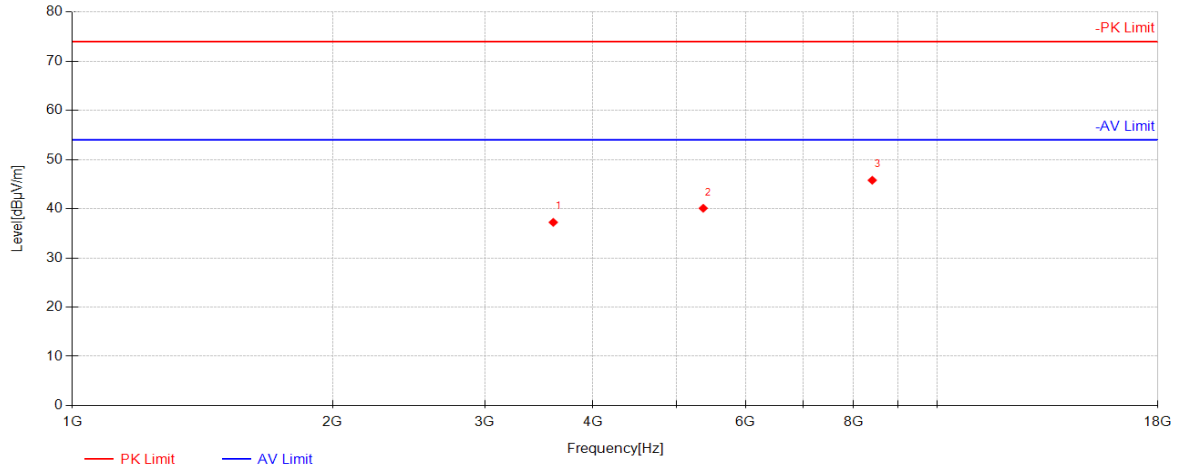
| Data List |                 |                |           |             |                |                |             |             |           |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 3532.875        | 55.89          | 28.65     | -46.22      | 38.33          | 74.00          | 35.67       | 100         | 359       | Vertical |
| 2         | 4999.875        | 53.62          | 31.40     | -45.64      | 39.38          | 74.00          | 34.62       | 100         | 207       | Vertical |
| 3         | 7255.125        | 51.11          | 35.71     | -43.60      | 43.22          | 74.00          | 30.78       | 100         | 360       | Vertical |

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BLE 2M\_Channel 19



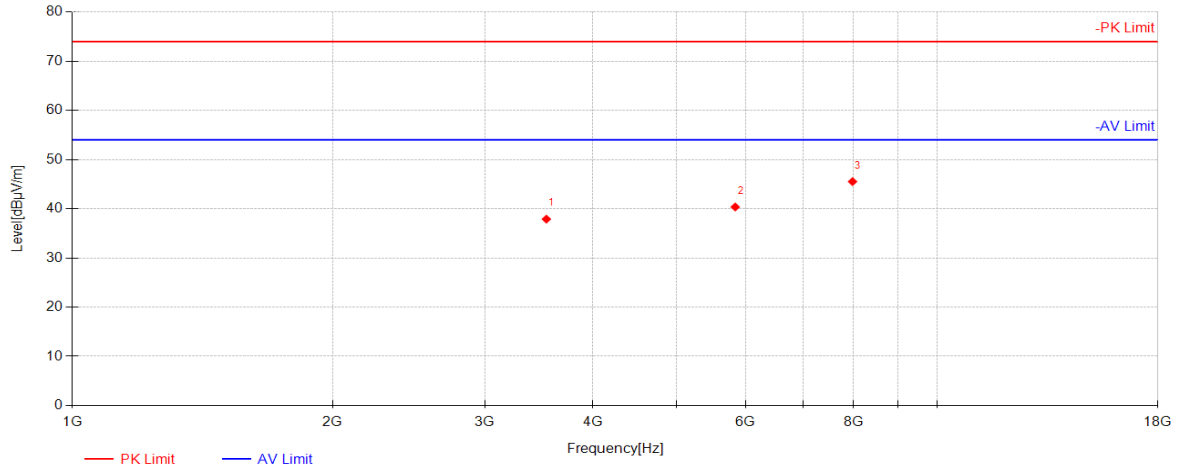
| Data List |                 |                |           |             |                |                |             |             |           |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 3598.5          | 54.61          | 28.76     | -46.13      | 37.24          | 74.00          | 36.76       | 100         | 278       | Horizontal |
| 2         | 5364.375        | 53.27          | 32.06     | -45.23      | 40.10          | 74.00          | 33.90       | 100         | 278       | Horizontal |
| 3         | 8413.875        | 50.42          | 36.85     | -41.47      | 45.80          | 74.00          | 28.20       | 100         | 314       | Horizontal |

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| Data List |                 |                |           |             |                |                |             |             |           |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 3532.875        | 55.45          | 28.65     | -46.22      | 37.89          | 74.00          | 36.11       | 100         | 3         | Vertical |
| 2         | 5841.75         | 52.83          | 32.37     | -44.84      | 40.36          | 74.00          | 33.64       | 100         | 172       | Vertical |
| 3         | 7982.625        | 50.88          | 37.08     | -42.43      | 45.52          | 74.00          | 28.48       | 100         | 360       | Vertical |

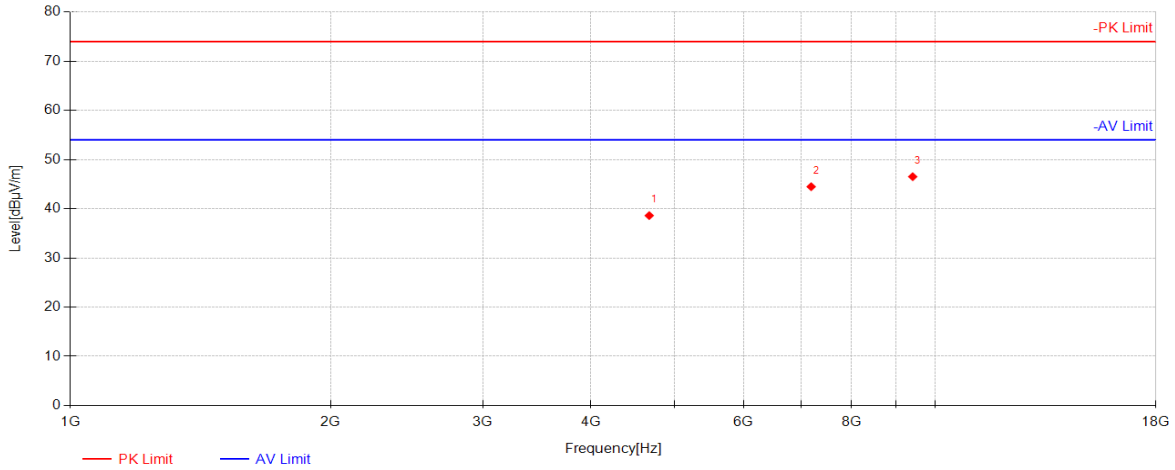
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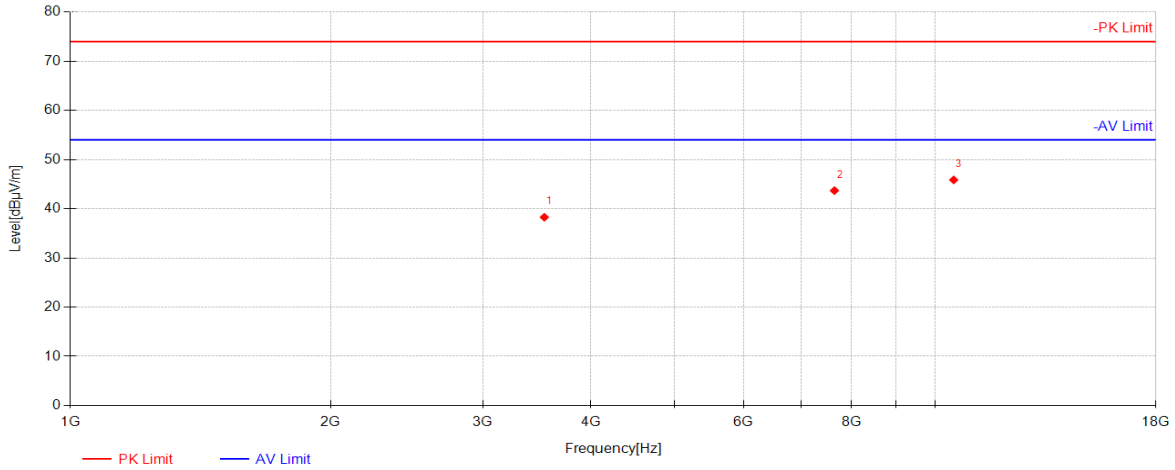
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|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 4670.625        | 53.36          | 30.87     | -45.62      | 38.61          | 74.00          | 35.39       | 100         | 314       | Horizontal |
| 2         | 7188.375        | 52.47          | 35.53     | -43.51      | 44.49          | 74.00          | 29.51       | 100         | 69        | Horizontal |
| 3         | 9420.375        | 49.09          | 37.34     | -39.91      | 46.52          | 74.00          | 27.48       | 100         | 210       | Horizontal |

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| Data List |                 |                |           |             |                |                |             |             |           |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 3532.5          | 55.85          | 28.65     | -46.22      | 38.28          | 74.00          | 35.72       | 100         | 4         | Vertical |
| 2         | 7647.75         | 50.10          | 36.61     | -43.02      | 43.69          | 74.00          | 30.31       | 100         | 104       | Vertical |
| 3         | 10506.375       | 46.10          | 38.55     | -38.78      | 45.87          | 74.00          | 28.13       | 100         | 346       | Vertical |

Remark:

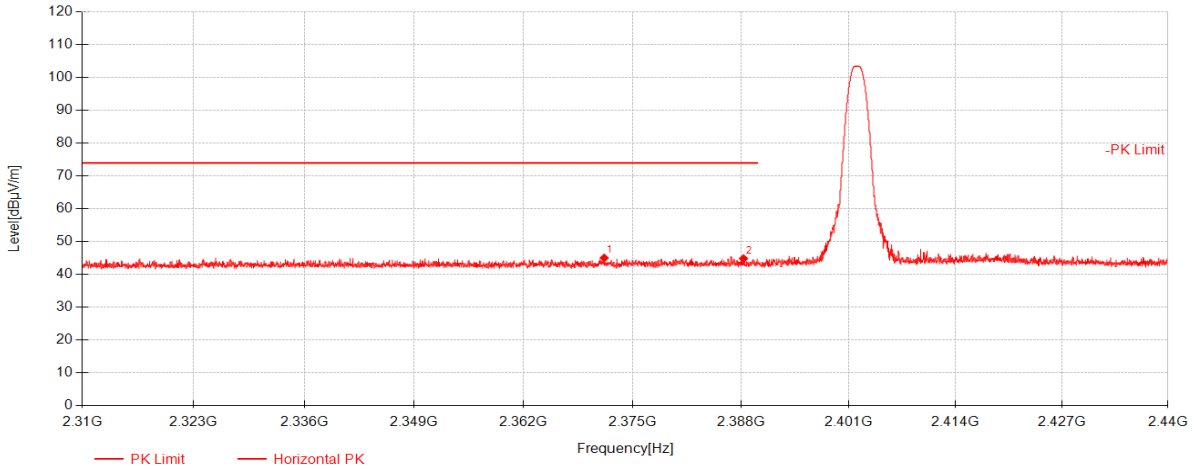
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:  
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$   
 $AF = Antenna\ Factor(dB/m)$   
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$   
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"

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## Restricted bands around fundamental frequency

### BLE 1M\_Channel 00



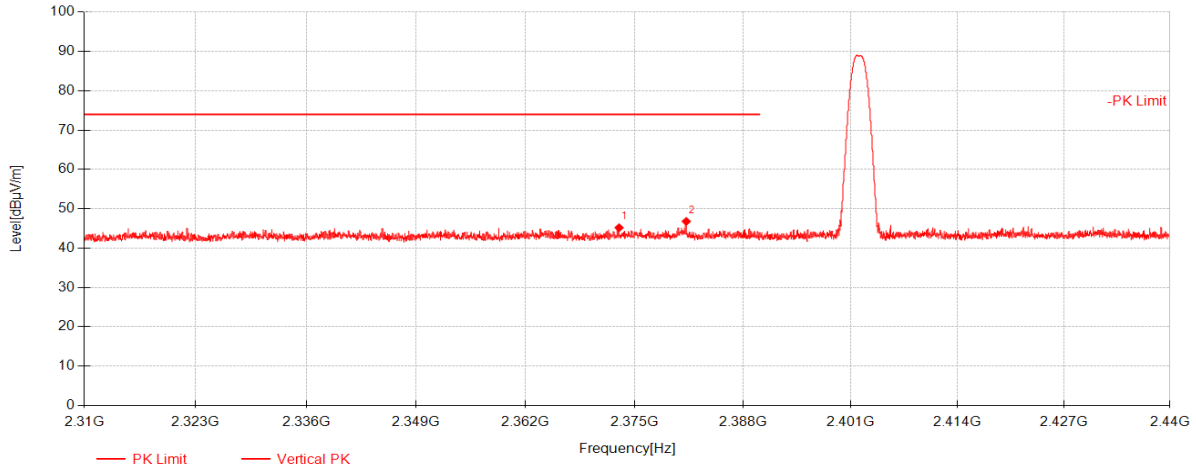
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|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 2371.6038       | 41.64          | 26.94     | -23.57      | 45.01          | 74.00          | 28.99       | 100         | 152       | Horizontal |
| 2         | 2388.325        | 41.40          | 26.98     | -23.57      | 44.81          | 74.00          | 29.19       | 300         | 160       | Horizontal |

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BLE 1M\_Channel 00



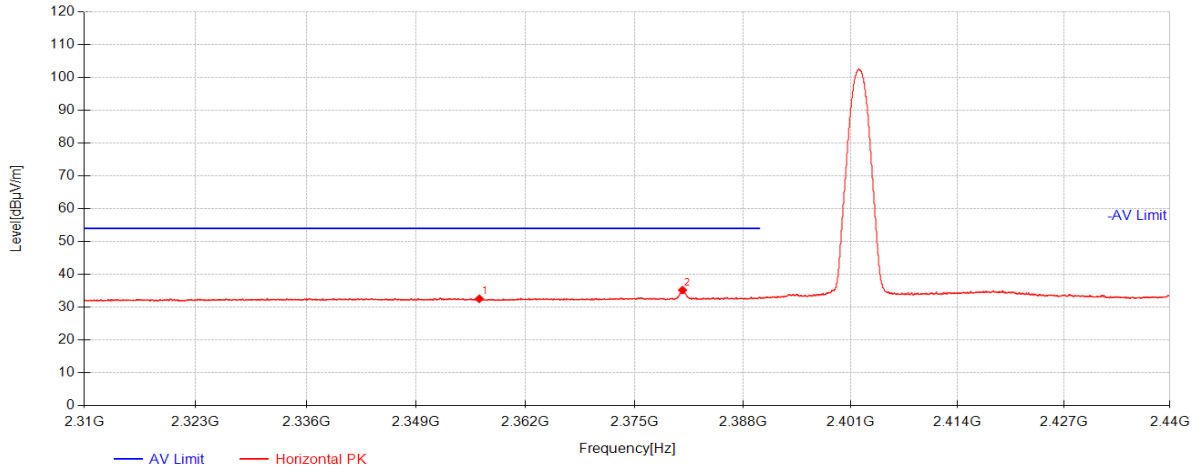
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|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 2373.1475       | 41.82          | 26.95     | -23.57      | 45.19          | 74.00          | 28.81       | 100         | 14        | Vertical |
| 2         | 2381.2075       | 43.40          | 26.96     | -23.57      | 46.79          | 74.00          | 27.21       | 300         | 197       | Vertical |

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BLE 1M\_Channel 00



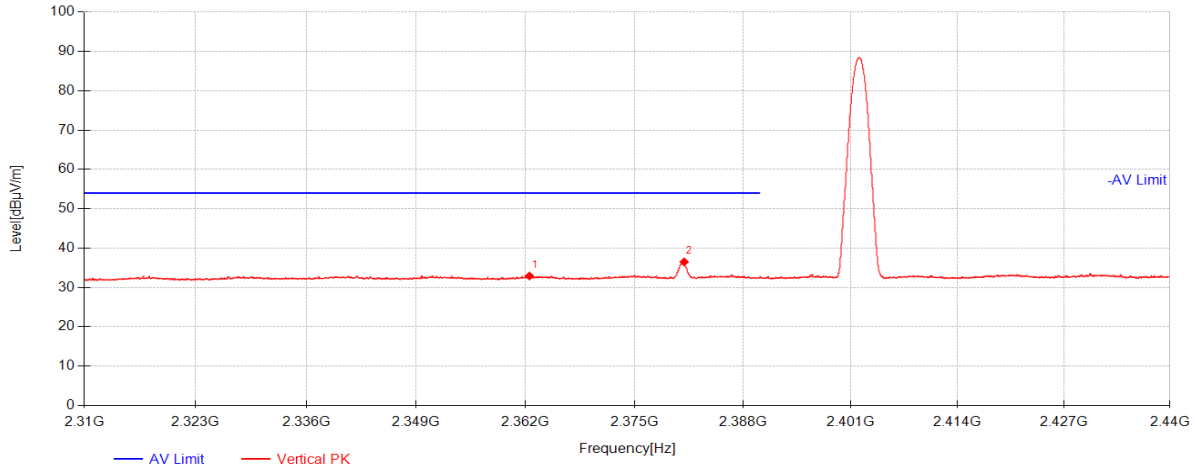
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| 1         | 2356.475        | 29.20          | 26.91     | -23.57      | 32.54          | 54.00          | 21.46       | 100         | 337       | Horizontal |
| 2         | 2380.7525       | 31.80          | 26.96     | -23.57      | 35.19          | 54.00          | 18.81       | 300         | 68        | Horizontal |

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### BLE 1M\_Channel 00



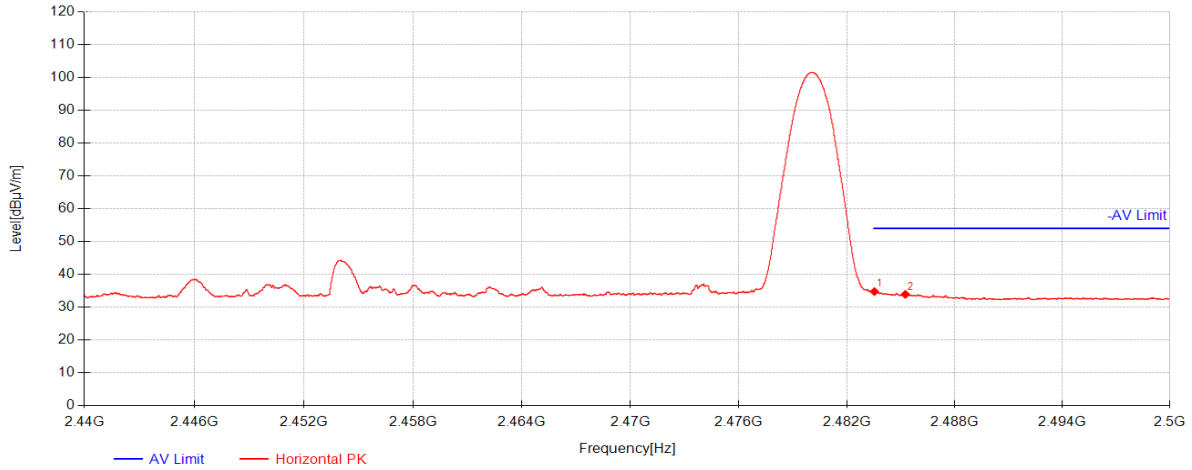
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| 1         | 2362.4387       | 29.56          | 26.92     | -23.57      | 32.91          | 54.00          | 21.09       | 300         | 159       | Vertical |
| 2         | 2380.9475       | 33.10          | 26.96     | -23.57      | 36.49          | 54.00          | 17.51       | 300         | 183       | Vertical |

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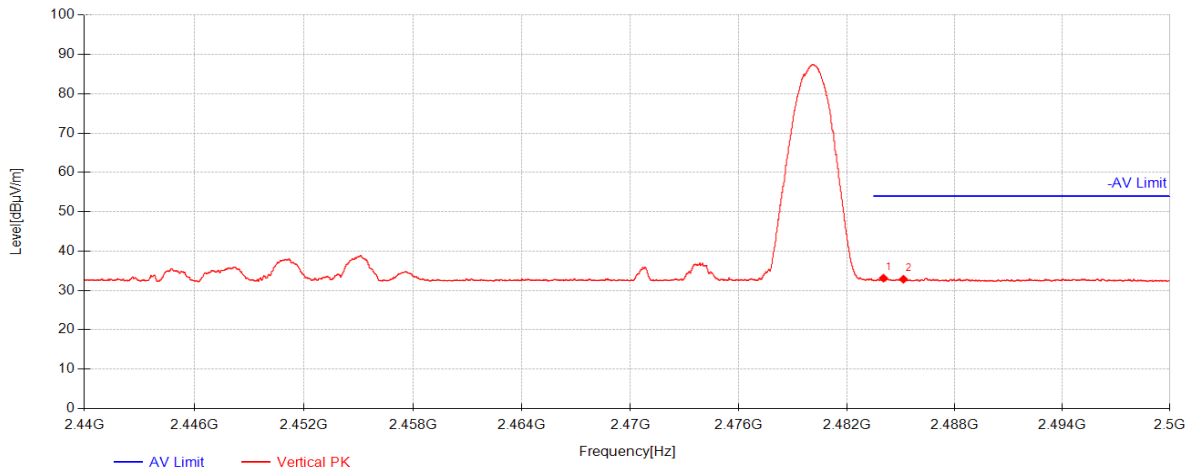
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| 1         | 2483.5225       | 31.12          | 27.17     | -23.54      | 34.74          | 54.00          | 19.26       | 100         | 1         | Horizontal |
| 2         | 2485.24         | 30.28          | 27.17     | -23.54      | 33.91          | 54.00          | 20.09       | 100         | 0         | Horizontal |

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| Data List |                 |                |           |             |                |                |             |             |           |          |
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| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 2484.025        | 29.51          | 27.17     | -23.54      | 33.13          | 54.00          | 20.87       | 100         | 360       | Vertical |
| 2         | 2485.135        | 29.21          | 27.17     | -23.54      | 32.84          | 54.00          | 21.16       | 100         | 311       | Vertical |

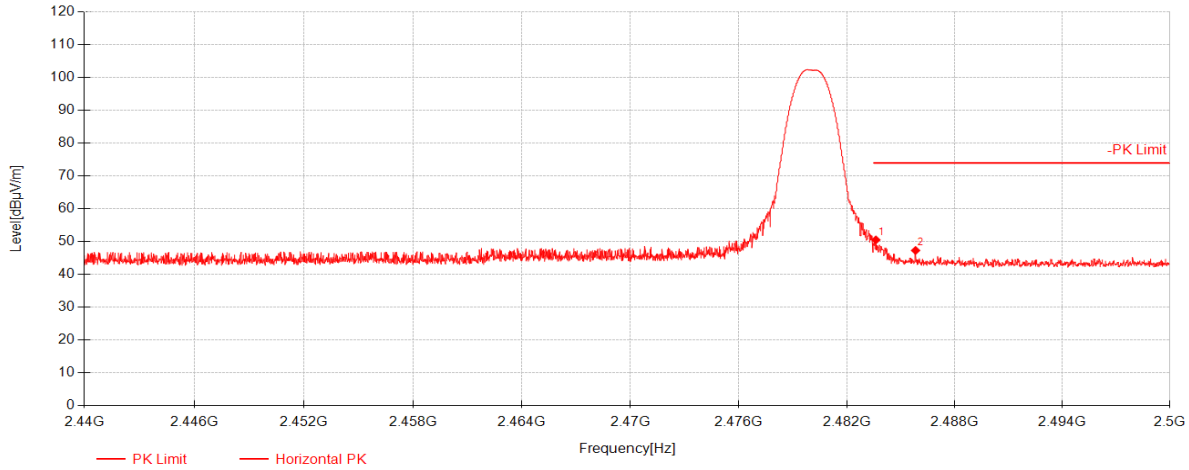
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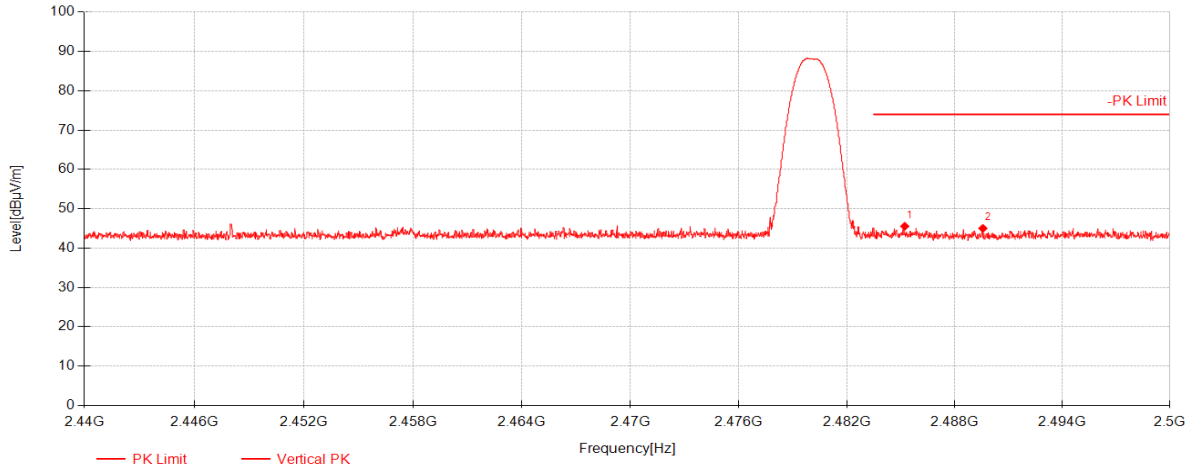
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| 1         | 2483.605        | 46.89          | 27.17     | -23.54      | 50.51          | 74.00          | 23.49       | 100         | 356       | Horizontal |
| 2         | 2485.81         | 43.65          | 27.17     | -23.54      | 47.28          | 74.00          | 26.72       | 100         | 32        | Horizontal |

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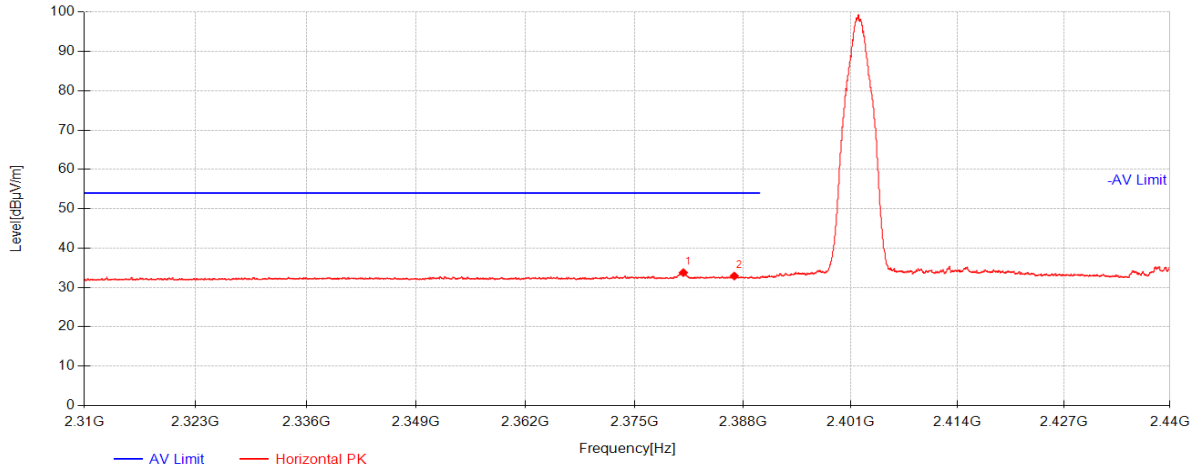
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| 1         | 2485.21         | 41.93          | 27.17     | -23.54      | 45.56          | 74.00          | 28.44       | 100         | 358       | Vertical |
| 2         | 2489.56         | 41.37          | 27.18     | -23.54      | 45.01          | 74.00          | 28.99       | 100         | 41        | Vertical |

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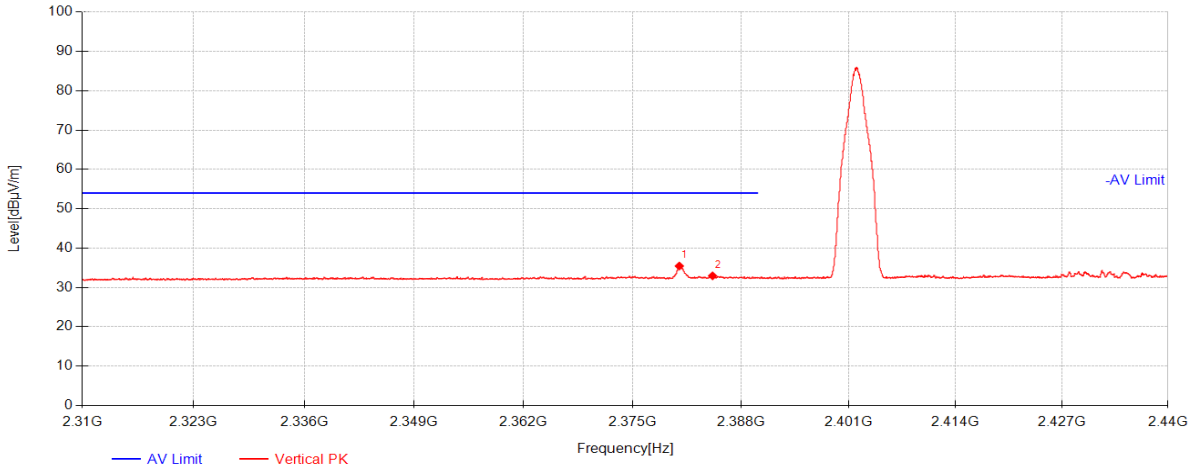
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| 1         | 2380.85         | 30.38          | 26.96     | -23.57      | 33.77          | 54.00          | 20.23       | 100         | 245       | Horizontal |
| 2         | 2386.9762       | 29.51          | 26.97     | -23.57      | 32.91          | 54.00          | 21.09       | 100         | 165       | Horizontal |

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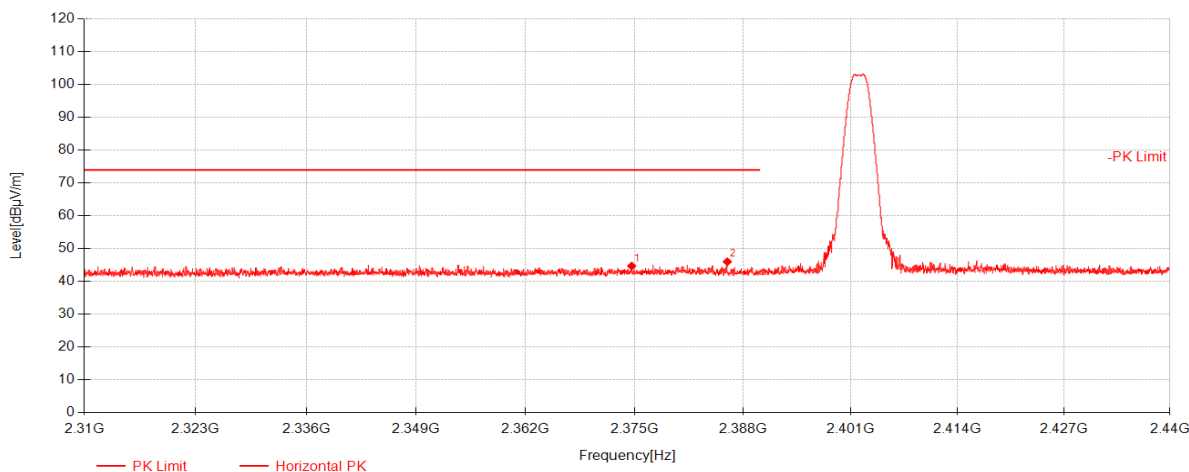
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| 1         | 2380.6062       | 32.06          | 26.96     | -23.57      | 35.45          | 54.00          | 18.55       | 100         | 138       | Vertical |
| 2         | 2384.6038       | 29.55          | 26.97     | -23.57      | 32.95          | 54.00          | 21.05       | 100         | 287       | Vertical |

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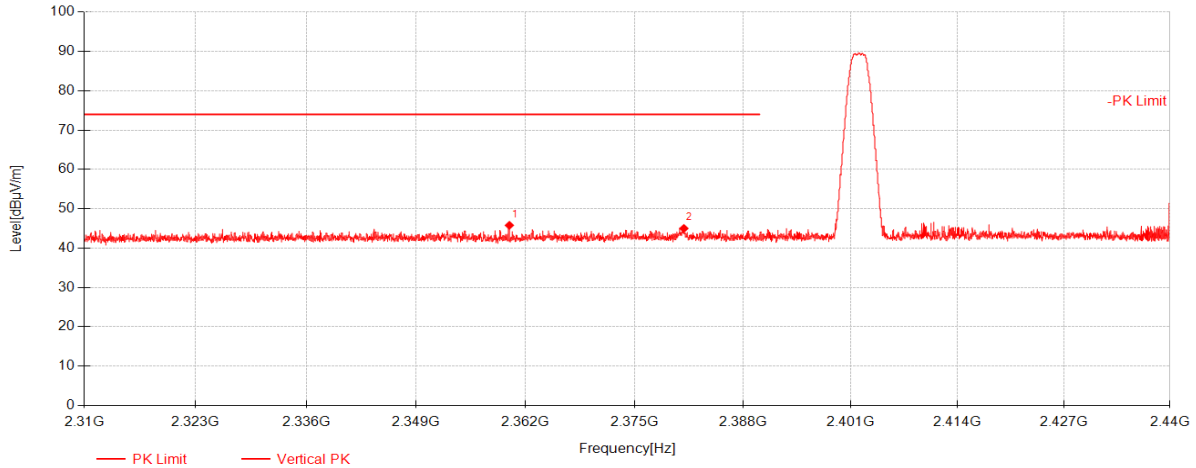
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| 1         | 2374.6588       | 41.29          | 26.95     | -23.57      | 44.67          | 74.00          | 29.33       | 100         | 199       | Horizontal |
| 2         | 2386.1312       | 42.58          | 26.97     | -23.57      | 45.98          | 74.00          | 28.02       | 100         | 338       | Horizontal |

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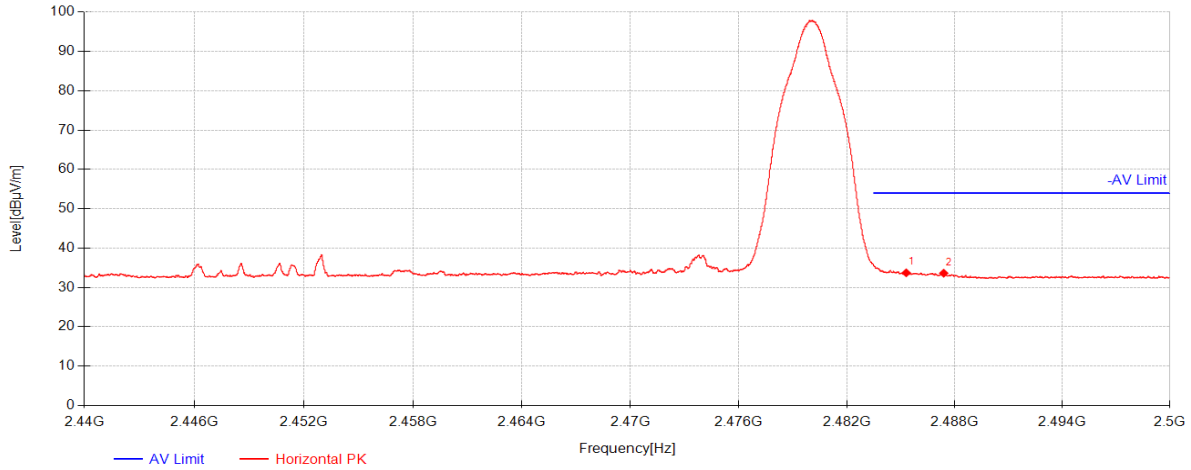
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| 1         | 2360.05         | 42.44          | 26.92     | -23.57      | 45.79          | 74.00          | 28.21       | 100         | 275       | Vertical |
| 2         | 2380.915        | 41.61          | 26.96     | -23.57      | 45.00          | 74.00          | 29.00       | 100         | 136       | Vertical |

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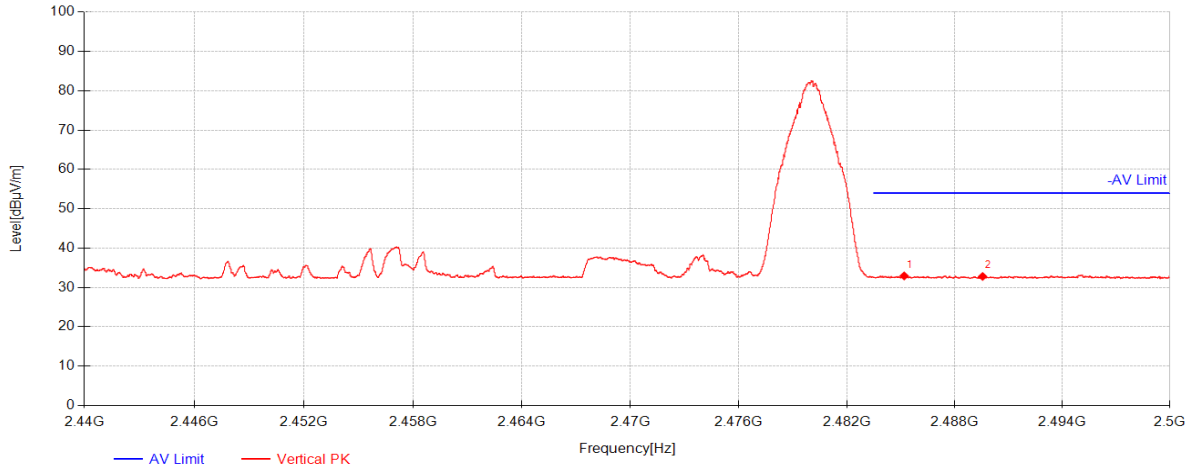
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| 1         | 2485.2925       | 30.09          | 27.17     | -23.54      | 33.72          | 54.00          | 20.28       | 150         | 0         | Horizontal |
| 2         | 2487.3775       | 29.99          | 27.17     | -23.54      | 33.62          | 54.00          | 20.38       | 150         | 357       | Horizontal |

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| Data List |                 |                |           |             |                |                |             |             |           |          |
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| 1         | 2485.18         | 29.30          | 27.17     | -23.54      | 32.93          | 54.00          | 21.07       | 150         | 286       | Vertical |
| 2         | 2489.545        | 29.16          | 27.18     | -23.54      | 32.80          | 54.00          | 21.20       | 150         | 195       | Vertical |

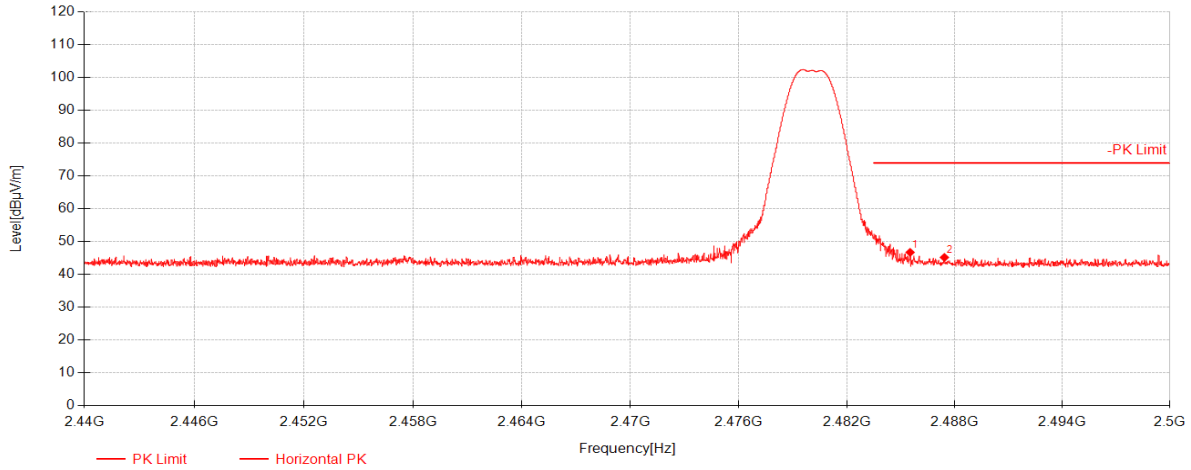
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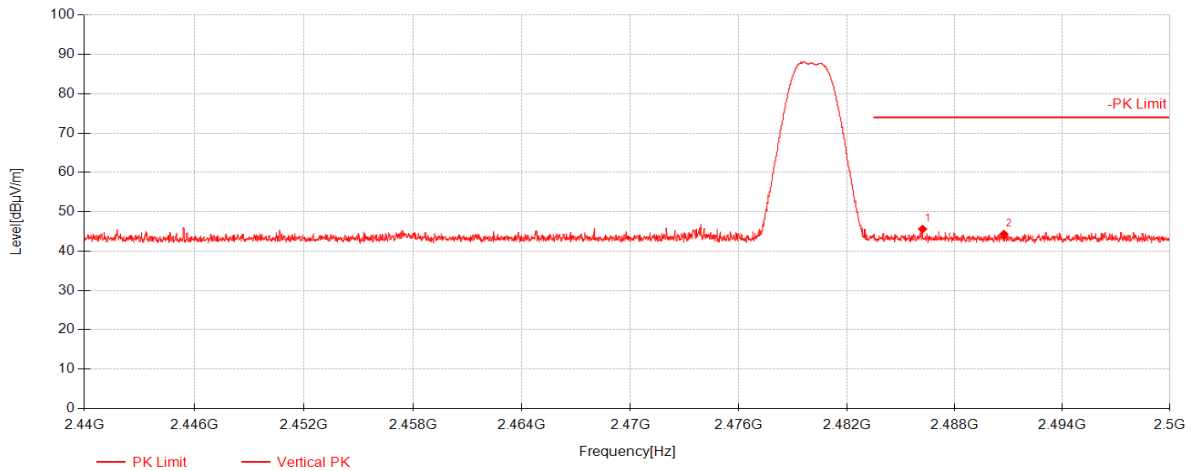
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| 1         | 2485.51         | 43.08          | 27.17     | -23.54      | 46.71          | 74.00          | 27.29       | 100         | 356       | Horizontal |
| 2         | 2487.415        | 41.53          | 27.17     | -23.54      | 45.16          | 74.00          | 28.84       | 100         | 0         | Horizontal |

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BLE 2M\_Channel 39



| Data List |                 |                |           |             |                |                |             |             |           |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 2486.2          | 41.96          | 27.17     | -23.54      | 45.59          | 74.00          | 28.41       | 100         | 99        | Vertical |
| 2         | 2490.73         | 40.67          | 27.18     | -23.54      | 44.31          | 74.00          | 29.69       | 100         | 40        | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB}):$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$

2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

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