

## TEST REPORT

**Product** : PowerEgg X 8K  
**Trade mark** : PowerEgg™  
**Model/Type reference** : PEX20  
**Serial Model** : N/A  
**Report Number** : EED39N80209401  
**FCC ID** : 2AKBMPEX20  
**Date of Issue** : August 6, 2021

| Test Standards                                               | Results |
|--------------------------------------------------------------|---------|
| <input checked="" type="checkbox"/> 47 CFR Part 15 Subpart C | PASS    |

Prepared for:

**Powervision Tech Inc.**

**Zone E, Ocean Venture Valley, No.40, Yangguang Rd, Nanhai new District,  
Weihai, Shandong, China. 264200**

Prepared by:

**Centre Testing International (Suzhou) CO., LTD.**

**Building 18, Zhihui New Town Ecological Industrial Park, No. 1206, Jinyang  
East Road, Lujia Town, Kunshan, Jiangsu, China**

**TEL: +86-0512-5015 8288**

检验检测专用章  
Inspection & Testing Services

Compiled by:

*Jerry Yu*

Reviewed by:

*Lily Wang*

Approved by:

*Jeff Tang*

Date:

August 6, 2021

Check No.: 7824090421

Modification Record

| No. | Last Report No. | Modification Description |
|-----|-----------------|--------------------------|
| 1   | EED39N80209401  | First report             |

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## 1. Test Summary

| Test item                                                         | Test Requirement                                   | Test method      | Result |
|-------------------------------------------------------------------|----------------------------------------------------|------------------|--------|
| Antenna Requirement                                               | 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) | ANSI C63.10-2013 | PASS   |
| AC Power Line Conducted Emission                                  | 47 CFR Part 15 Subpart C Section 15.207            | ANSI C63.10-2013 | N/A    |
| Conducted Peak Output Power                                       | 47 CFR Part 15 Subpart C Section 15.247 (b)(3)     | ANSI C63.10-2013 | PASS   |
| 6dB Occupied Bandwidth                                            | 47 CFR Part 15 Subpart C Section 15.247 (a)(2)     | ANSI C63.10-2013 | PASS   |
| Power Spectral Density                                            | 47 CFR Part 15 Subpart C Section 15.247 (e)        | ANSI C63.10-2013 | PASS   |
| Band-edge for RF Conducted Emissions                              | 47 CFR Part 15 Subpart C Section 15.247(d)         | ANSI C63.10-2013 | PASS   |
| RF Conducted Spurious Emissions                                   | 47 CFR Part 15 Subpart C Section 15.247(d)         | ANSI C63.10-2013 | PASS   |
| Duty cycle                                                        | 47 CFR Part 15 Subpart C Section 15.35(c)          | ANSI C63.10-2013 | PASS   |
| Radiated Spurious Emissions                                       | 47 CFR Part 15 Subpart C Section 15.205/15.209     | ANSI C63.10-2013 | PASS   |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15 Subpart C Section 15.205/15.209     | ANSI C63.10-2013 | PASS   |

## 2. Test Requirement

### 2.1. Test Environment

| Operating Environment: |           |
|------------------------|-----------|
| Temperature:           | 22.3 °C   |
| Humidity:              | 48.7 % RH |
| Atmospheric Pressure:  | 1010mbar  |

### 2.2. Test Condition

| Test Mode         | Tx/Rx                                                                 | RF Channel |           |           |
|-------------------|-----------------------------------------------------------------------|------------|-----------|-----------|
|                   |                                                                       | Low(L)     | Middle(M) | High(H)   |
| 802.11b/g/n(HT20) | 2412MHz ~2462 MHz                                                     | Channel 1  | Channel 6 | Channel11 |
|                   |                                                                       | 2412MHz    | 2437MHz   | 2462MHz   |
| TX mode:          | The EUT transmitted the continuous signal at the specific channel(s). |            |           |           |

Note: Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).

### 3. General Information

#### 3.1. Client Information

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| Applicant:               | Powervision Tech Inc.                                                                                 |
| Address of Applicant:    | Zone E,Ocean Venture Valley, No.40, Yangguang Rd, Nanhai new District, Weihai, Shandong,China. 264200 |
| Manufacturer:            | Powervision Tech Inc.                                                                                 |
| Address of Manufacturer: | Zone E,Ocean Venture Valley, No.40, Yangguang Rd, Nanhai new District, Weihai, Shandong,China. 264200 |
| Factory:                 | Powervision (Suzhou) Technology Co.,Ltd.                                                              |
| Address of Factory:      | Building 3,No.15, Zhujing Road,Changshu High-tech Industrial Development Zone,Suzhou,China            |

#### 3.2. General Description of EUT

|                                  |                                                                                                                                                       |                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Product Name:                    | PowerEgg X 8K                                                                                                                                         |                                                                                 |
| Model No.(EUT):                  | PEX20                                                                                                                                                 |                                                                                 |
| Serial Model:                    | /                                                                                                                                                     |                                                                                 |
| Trade Mark:                      |                                                                      |                                                                                 |
| EUT Supports Radios application: | 2.4G WIFI:<br>IEEE802.11b/g/n(20MHz), 2412MHz-2462MHz<br>5G WIFI:<br>IEEE802.11a/an(HT20)5725-5850MHz.<br>2.4G: 2406MHz~2466MHz<br>5G:5740MHz~5830MHz |                                                                                 |
| Power Supply :                   | Adapter:                                                                                                                                              | Model:PAD20<br>INPUT:100-240V 1.4A 50-60Hz<br>OUTPUT:DC 13.3V 3.76A<br>DC 5V 2A |
|                                  | Battery:                                                                                                                                              | Model: PEMIB10<br>Rated voltage:11.4V<br>Rated capacity:3800mAh                 |
| Sample Received Date:            | 2021.05.14                                                                                                                                            |                                                                                 |
| Sample tested Date:              | 2021.5.18 to 2021.08.05                                                                                                                               |                                                                                 |

#### 3.3. Product Specification subjective to this standard

|                                     |                                                                                                                                                    |         |           |         |           |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|---------|-----------|
| Operation Frequency:                | IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz                                                                                                         |         |           |         |           |
| Channel Numbers:                    | 11                                                                                                                                                 |         |           |         |           |
| Channel Separation:                 | 5MHz                                                                                                                                               |         |           |         |           |
| Type of Modulation:                 | IEEE for 802.11b:DSSS(CCK,DQPSK,DBPSK)<br>IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK) |         |           |         |           |
| Test Software of EUT:               | artgui (manufacturer declare )                                                                                                                     |         |           |         |           |
| Antenna Type:                       | PCB antenna                                                                                                                                        |         |           |         |           |
| Antenna Gain <sup>①</sup> :         | ANT1 Gain :3dBi<br>ANT2 Gain :3dBi                                                                                                                 |         |           |         |           |
| Test Voltage:                       | DC 11.4V                                                                                                                                           |         |           |         |           |
| Operation Frequency each of channel |                                                                                                                                                    |         |           |         |           |
| Channel                             | Frequency                                                                                                                                          | Channel | Frequency | Channel | Frequency |
| 1                                   | 2412MHz                                                                                                                                            | 6       | 2437MHz   | 11      | 2462MHz   |

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Note: 1 The antenna gain is provided by the client and we Centre Testing International (Suzhou) CO., LTD. test lab is not responsible for the accuracy of the antenna gain information.

### 3.4. Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

| Description | Manufacturer | Model No. | Certification  | Supplied by |
|-------------|--------------|-----------|----------------|-------------|
| NB          | ThinkPad     | E490      | FCC ID and DOC | CTI         |

### 3.5. Test Location

All test facilities used to collect the test data are located at Building 18, Zhihui New Town Ecological Industrial Park, No. 1206, Jinyang East Road, Lujia Town, Kunshan, Jiangsu, China.

### 3.6. Test Facility

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

#### **A2LA-Lab Cert. No. 5734.01**

Centre Testing International (Suzhou) CO., LTD. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration. Laboratories and any additional program requirements in the identified field of testing.

#### **FCC-Designation No.:CN1290**

Centre Testing International Group Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The American association for Centre Testing International Group Co., Ltd. EMC laboratory accreditation Designation No.:CN1290

### 3.7. Deviation from Standards

None.

### 3.8. Abnormalities from Standard Conditions

None.

### 3.9. Other Information Requested by the Customer

None.

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

| No. | Item                               | Measurement Uncertainty |
|-----|------------------------------------|-------------------------|
| 1   | Occupied Bandwidth                 | 0.56%                   |
| 2   | RF Power conducted                 | 0.59 dB                 |
| 3   | Power Spectral Density, conducted  | 2.37 dB                 |
| 4   | Unwanted Emission, conducted       | 2.68 dB                 |
| 5   | All Emission, radiated             | 4.41 dB(30MHz-1GHz)     |
|     |                                    | 4.99 dB(1GHz-18GHz)     |
|     |                                    | 5.307 dB(18GHz-40GHz)   |
| 6   | Temperature test                   | 0.54°C                  |
| 7   | Humidity test                      | 1.62%                   |
| 8   | DC and low frequency voltages test | 1.14%                   |

## 4. Equipment List

| RF test system                  |                      |               |               |                        |                            |
|---------------------------------|----------------------|---------------|---------------|------------------------|----------------------------|
| Equipment                       | Manufacturer         | Mode No.      | Serial Number | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| Signal Generator                | R&S                  | SMB100A       | 182002        | 2020-10-23             | 2021-10-22                 |
| Communication test set test set | R&S                  | CMW500        | 107929        | 2021-04-29             | 2022-04-28                 |
| Spectrum Analyzer               | R&S                  | FSV40         | 101588        | 2020-10-23             | 2021-10-22                 |
| Vector signal generator         | R&S                  | SMBV100B      | 101985        | 2020-10-23             | 2021-10-22                 |
| Temperature/ Humidity Indicator | testo                | 608-H1        | 1945222628    | 2020-11-09             | 2021-11-08                 |
| Switch Automatic control        | R&S                  | OSP-B157W8    | 101111        | 2020-10-23             | 2021-10-22                 |
| High-low temperature chamber    | GIANT FORCE          | GTH-800-40-CP | MAA1908-003   | 2020-12-08             | 2021-12-07                 |
| Automatic test software         | Shenzhen JS TONSCEND | /             | V2.6.77.0518  | /                      | /                          |

| 966 Semi-anechoic Chamber  |              |                   |               |                        |                            |
|----------------------------|--------------|-------------------|---------------|------------------------|----------------------------|
| Equipment                  | Manufacturer | Mode No.          | Serial Number | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| Receiver                   | R&S          | ESU8              | 100537        | 2020-12-10             | 2021-12-09                 |
| Spectrum analyzer          | R&S          | FSV40             | 101185        | 2020-12-10             | 2021-12-09                 |
| Preamplifier (30MHz~1GHz)  | SONOMA       | 317               | 393347        | 2020-12-04             | 2021-12-03                 |
| Preamplifier (1GHz~18GHz)  | R&S          | SCU-18D           | 1987397       | 2020-12-10             | 2021-12-09                 |
| Preamplifier (18GHz~40GHz) | /            | MTLNA1804003 0235 | 12009007      | 2020-10-23             | 2021-10-22                 |
| Loop Antenna (9kHz~30MHz)  | TESEQ        | HLA6121           | 54575         | 2021-02-27             | 2022-02-26                 |
| Antenna (30MHz~1GHz)       | SCHWARZBEC K | VULB9163          | 9163-965      | 2020-10-16             | 2021-10-15                 |
| Antenna (1GHz~18GHz)       | R&S          | HF907             | 102524        | 2020-12-15             | 2021-12-14                 |
| Antenna (18GHz~40GHz)      | R&S          | BBHA9170          | 1032          | 2020-10-23             | 2021-10-22                 |
| Band rejection filter      | Xi'an xingbo | XBLBQ-DZA81       | 200827-1-02   | /                      | /                          |

## 5. Radio Technical Requirements Specification

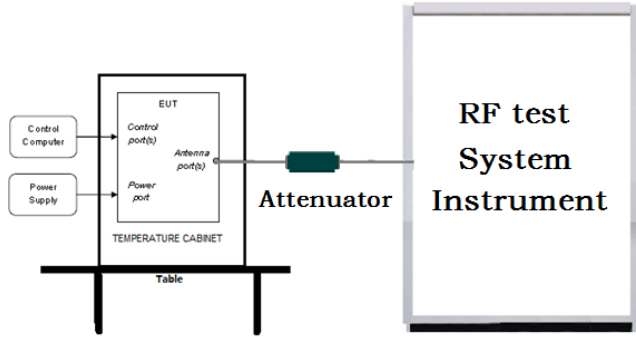
### 5.1. Reference Documents for Testing

| No. | Identity         | Document Title                                                     |
|-----|------------------|--------------------------------------------------------------------|
| 1   | FCC Part15C      | Subpart C-Intentional Radiators                                    |
| 2   | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |

### 5.2. Test Results List

| Test requirement                  | Test method                 | Test item                                                         | Verdict | Note        |
|-----------------------------------|-----------------------------|-------------------------------------------------------------------|---------|-------------|
| Part15C Section 15.247 (b)(3)     | ANSI 63.10 (L,M,H CH)       | Maximum conducted output power                                    | PASS    | Appendix A) |
| Part15C Section 15.247 (a)(2)     | ANSI 63.10 (L,M,H CH)       | DTS Bandwidth                                                     | PASS    | Appendix B) |
| Part15C Section 15.247(d)         | ANSI 63.10 (L, H CH)        | Band-edge for RF Conducted Emissions                              | PASS    | Appendix C) |
| Part15C Section 15.247(d)         | ANSI 63.10(L,M,H CH)        | RF Conducted Spurious Emissions                                   | PASS    | Appendix D) |
| Part15C Section 15.247 (e)        | ANSI 63.10 (L,M,H CH)       | Maximum Power Spectral Density                                    | PASS    | Appendix E) |
| Part15C Section 15.35 (c)         | ANSI 63.10 (L or M or H CH) | Duty cycle                                                        | PASS    | Appendix F) |
| Part15C Section 15.203/15.247 (c) | ANSI 63.10                  | Antenna Requirement                                               | PASS    | Appendix G) |
| Part15C Section 15.207            | ANSI 63.10Transmitter mode  | AC Power Line Conducted Emission                                  | PASS    | Appendix H) |
| Part15C Section 15.205/15.209     | ANSI 63.10 (L,M, H CH)      | Restricted bands around fundamental frequency (Radiated Emission) | PASS    | Appendix I) |
| Part15C Section 15.205/15.209     | ANSI 63.10 (L,M,H CH)       | Radiated Spurious Emissions                                       | PASS    | Appendix J) |

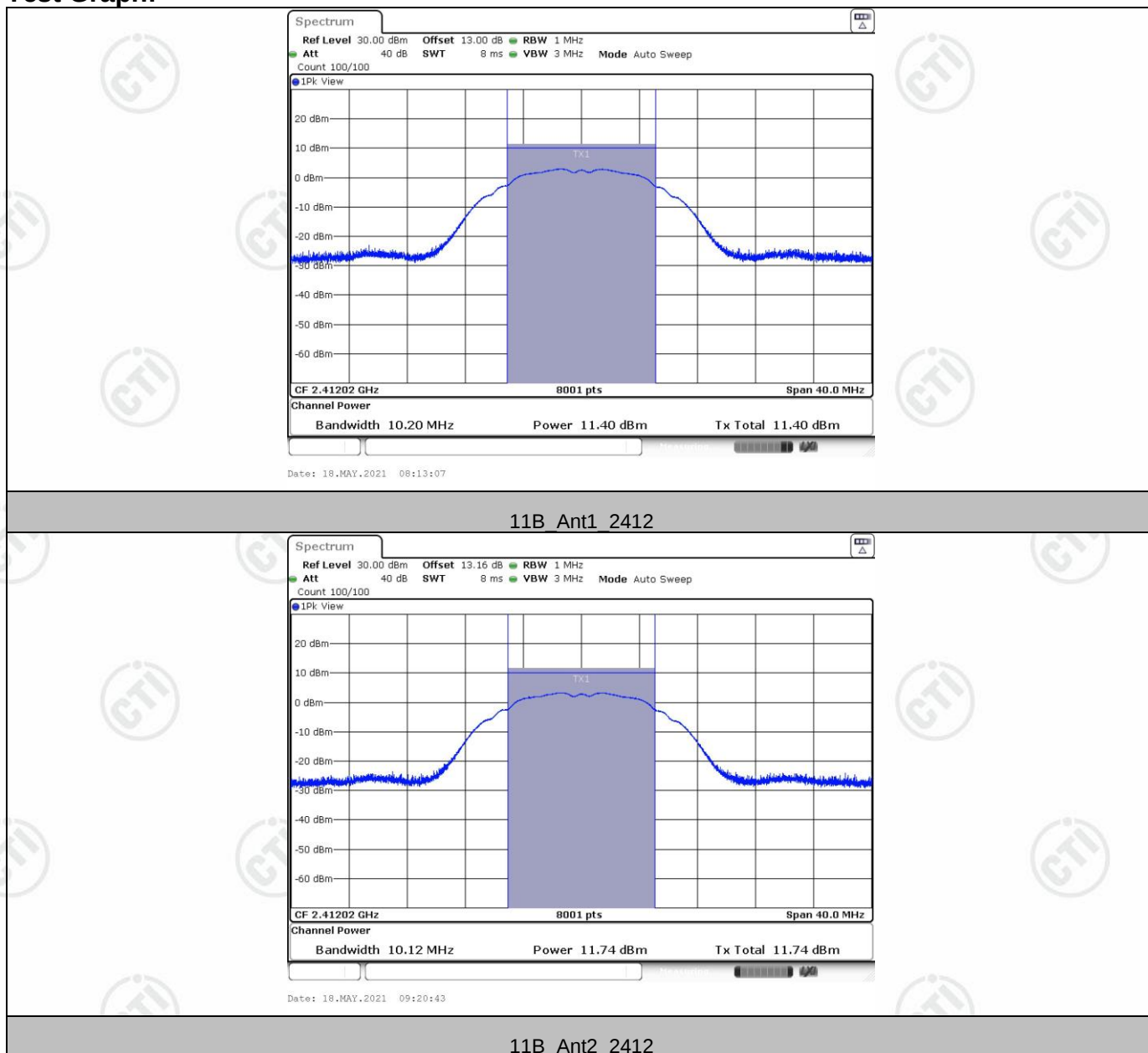
## Appendix A): Maximum conducted output power

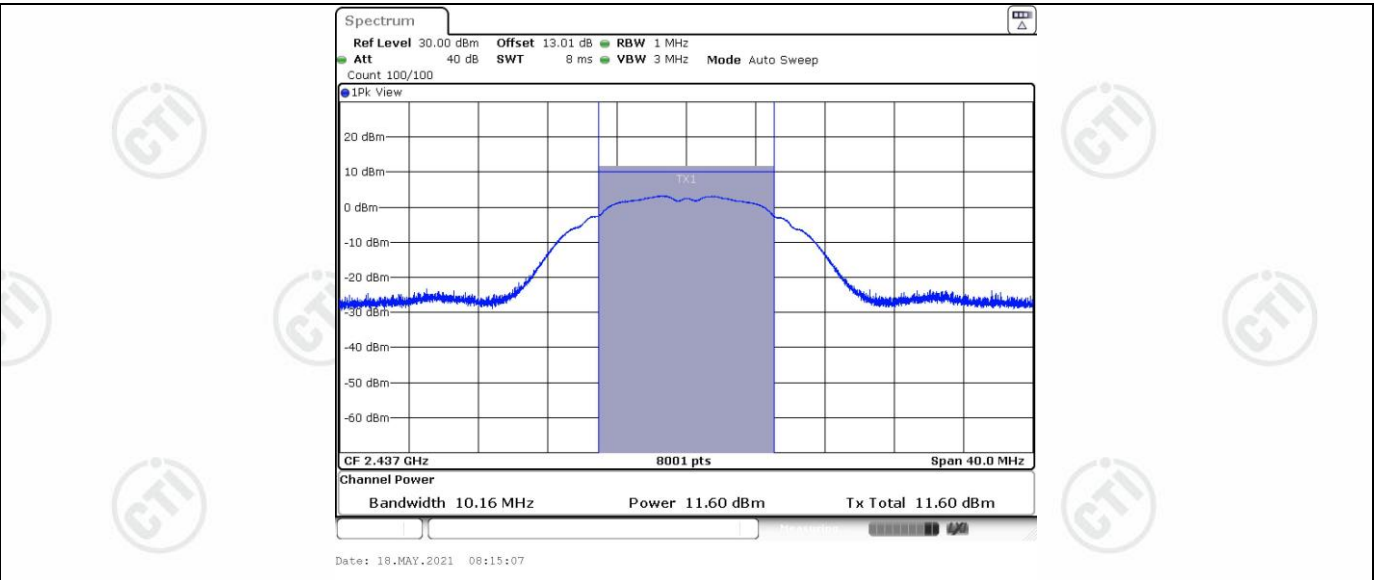
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | 47 CFR Part 15C Section 15.247 (b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Test Method:</b>      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Setup:</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Test Procedure:</b>   | <p>1. PKPM1 Peak power meter measurement<br/>The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.</p> <p>2. Method AVGPM-G Average power measurement<br/>Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p> |
| <b>Limit:</b>            | 30dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Test Mode:</b>        | Refer to clause 2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Test Results:</b>     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Result Table:

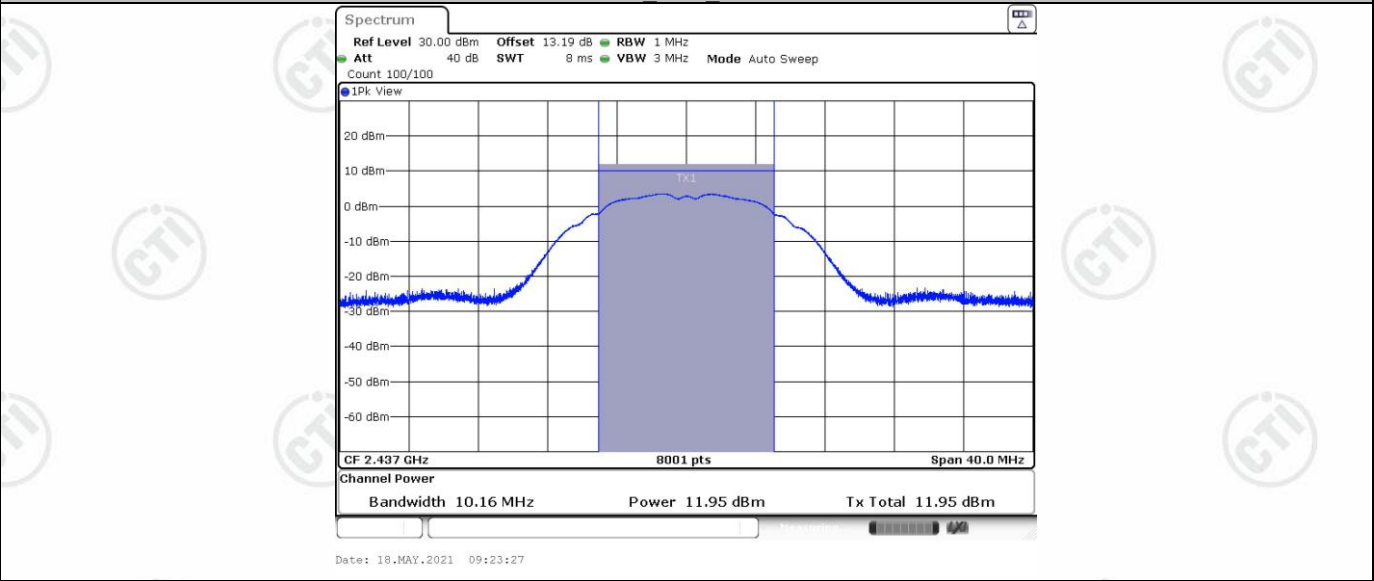
| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant1    | 2412    | 11.40       | <=30       | PASS    |
|           | Ant2    | 2412    | 11.74       | <=30       | PASS    |
|           | Ant1    | 2437    | 11.60       | <=30       | PASS    |
|           | Ant2    | 2437    | 11.95       | <=30       | PASS    |
|           | Ant1    | 2462    | 11.32       | <=30       | PASS    |
|           | Ant2    | 2462    | 11.55       | <=30       | PASS    |
|           | Total   | 2412    | 14.58       | <=30       | PASS    |
|           |         | 2437    | 14.82       | <=30       | PASS    |
|           |         | 2462    | 14.45       | <=30       | PASS    |
| 11G       | Ant1    | 2412    | 15.28       | <=30       | PASS    |
|           | Ant2    | 2412    | 15.56       | <=30       | PASS    |
|           | Ant1    | 2437    | 15.43       | <=30       | PASS    |
|           | Ant2    | 2437    | 15.76       | <=30       | PASS    |
|           | Ant1    | 2462    | 15.15       | <=30       | PASS    |
|           | Ant2    | 2462    | 15.41       | <=30       | PASS    |
|           | Total   | 2412    | 18.43       | <=30       | PASS    |
|           |         | 2437    | 18.61       | <=30       | PASS    |
|           |         | 2462    | 18.29       | <=30       | PASS    |
| 11N20     | Ant1    | 2412    | 14.41       | <=30       | PASS    |
|           | Ant2    | 2412    | 14.61       | <=30       | PASS    |
|           | Ant1    | 2437    | 14.62       | <=30       | PASS    |
|           | Ant2    | 2437    | 14.75       | <=30       | PASS    |
|           | Ant1    | 2462    | 14.33       | <=30       | PASS    |
|           | Ant2    | 2462    | 14.42       | <=30       | PASS    |
|           | Total   | 2412    | 17.52       | <=30       | PASS    |
|           |         | 2437    | 17.70       | <=30       | PASS    |
|           |         | 2462    | 17.39       | <=30       | PASS    |

## Test Graph:

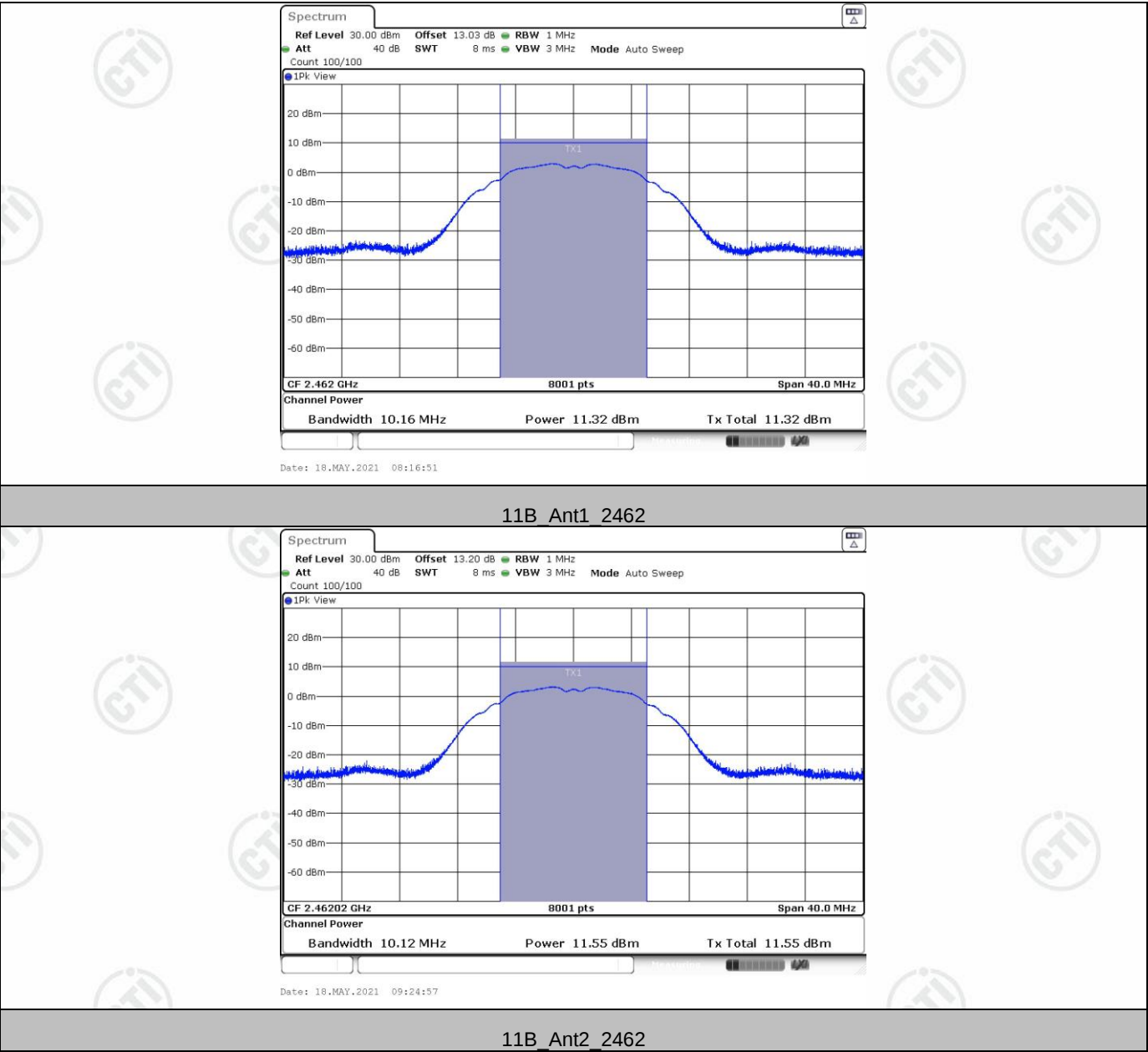


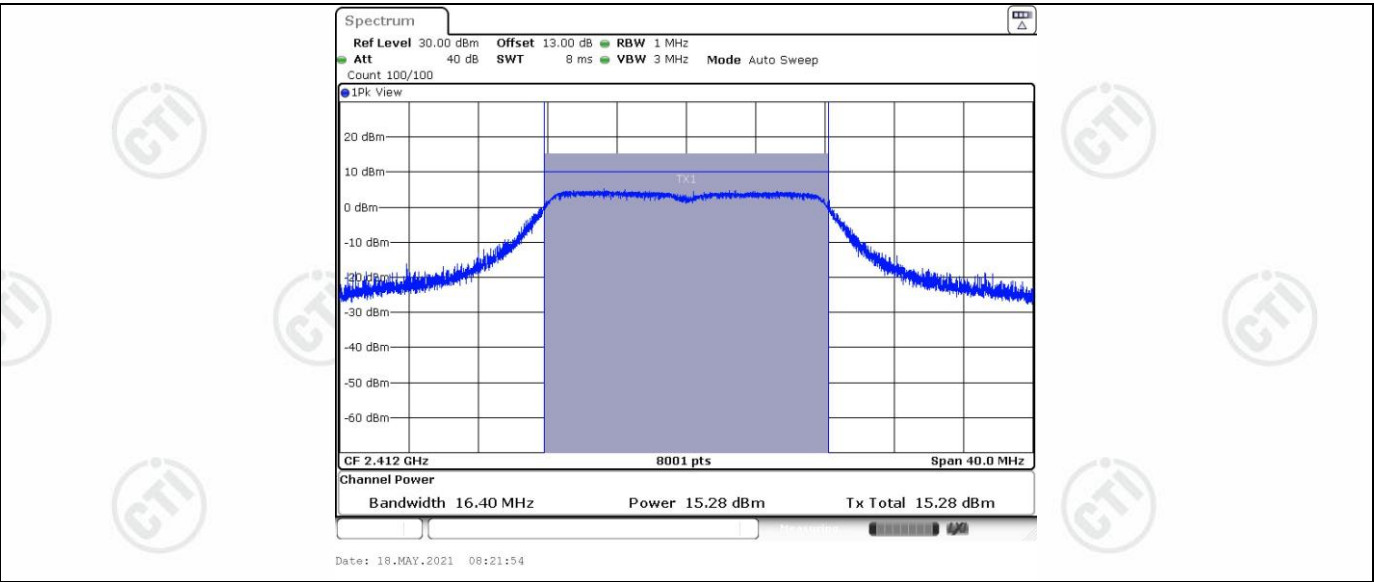


11B Ant1 2437

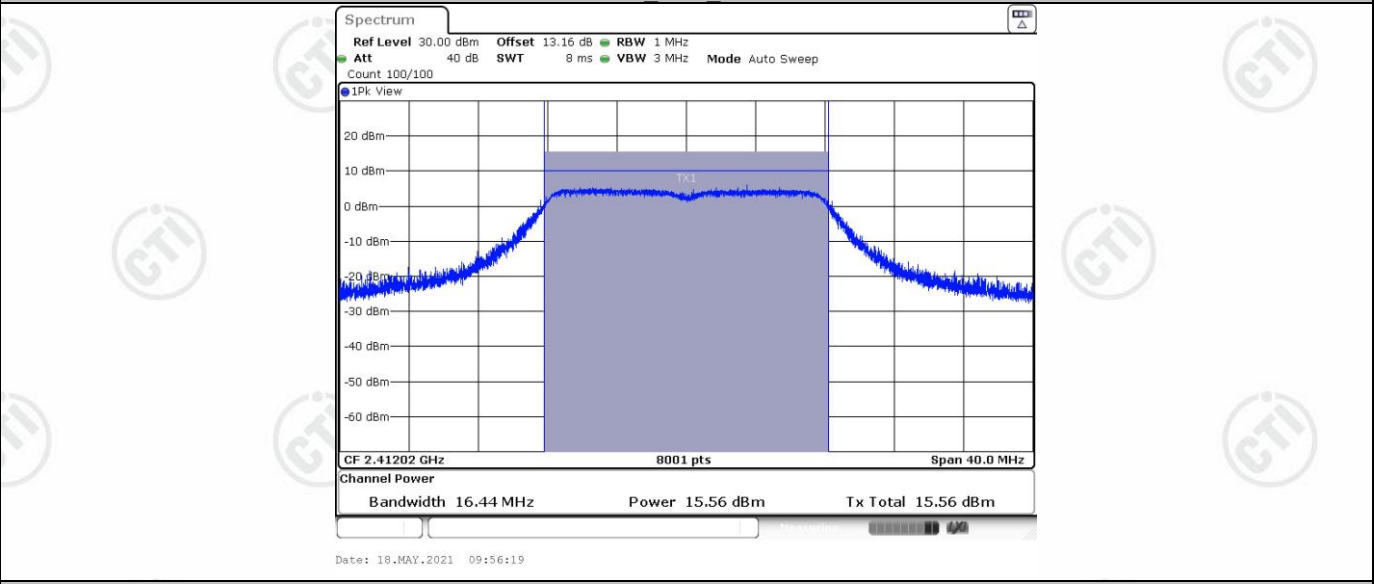


11B Ant2 2437

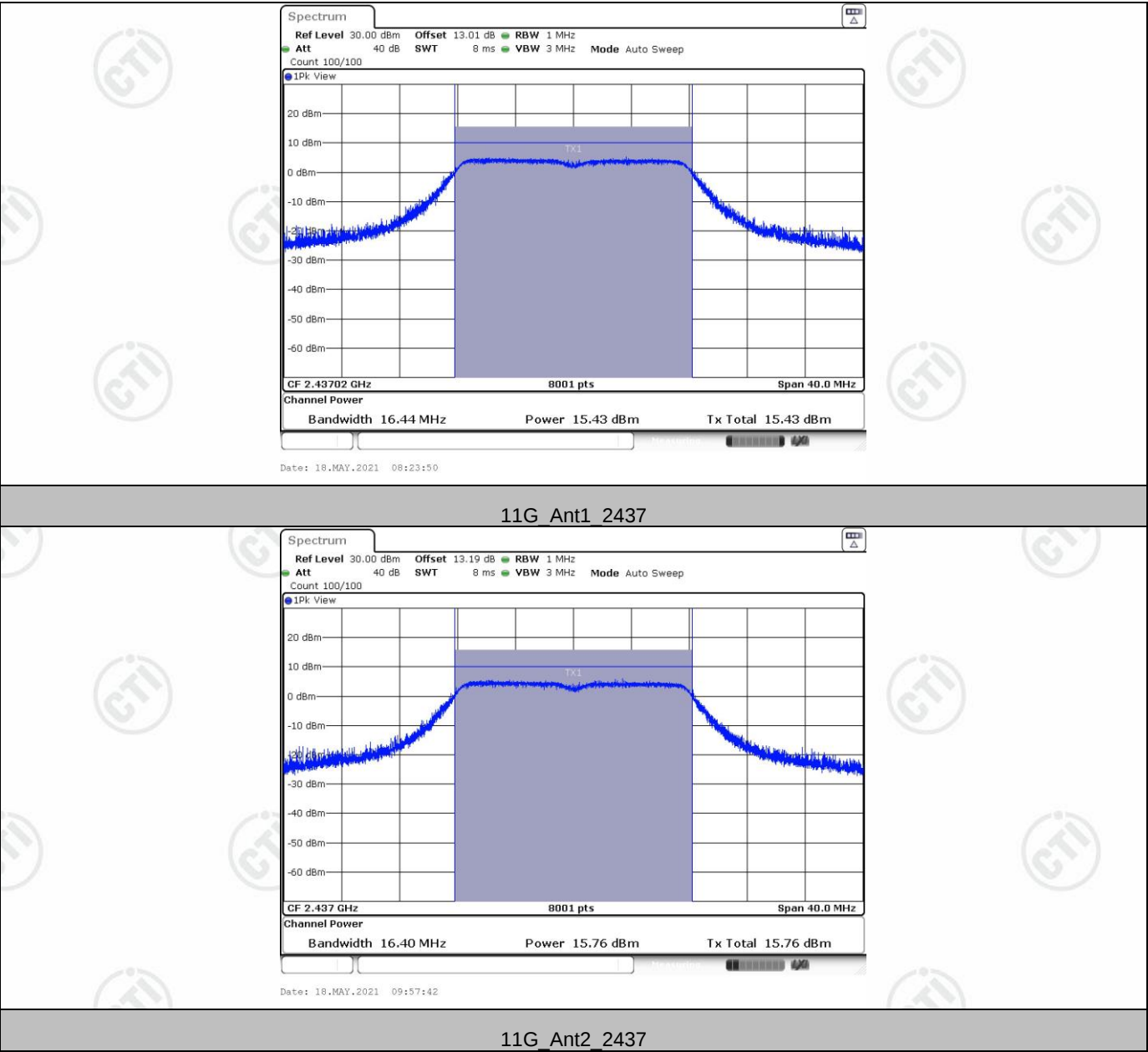


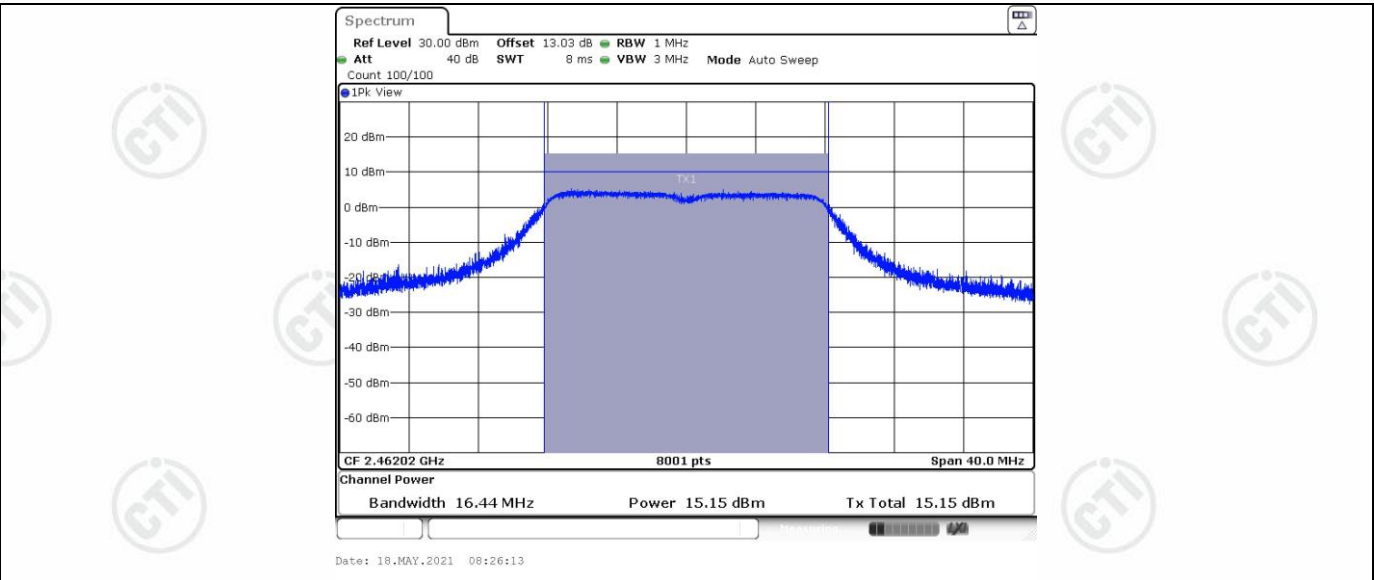


11G Ant1 2412

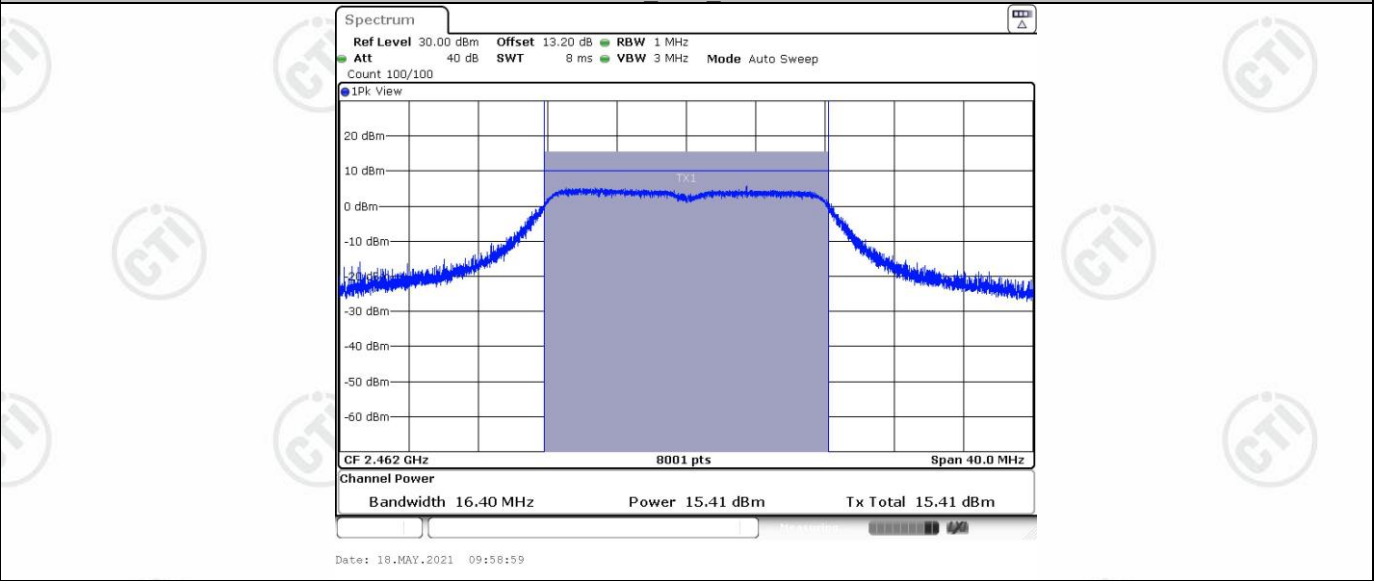


11G Ant2 2412

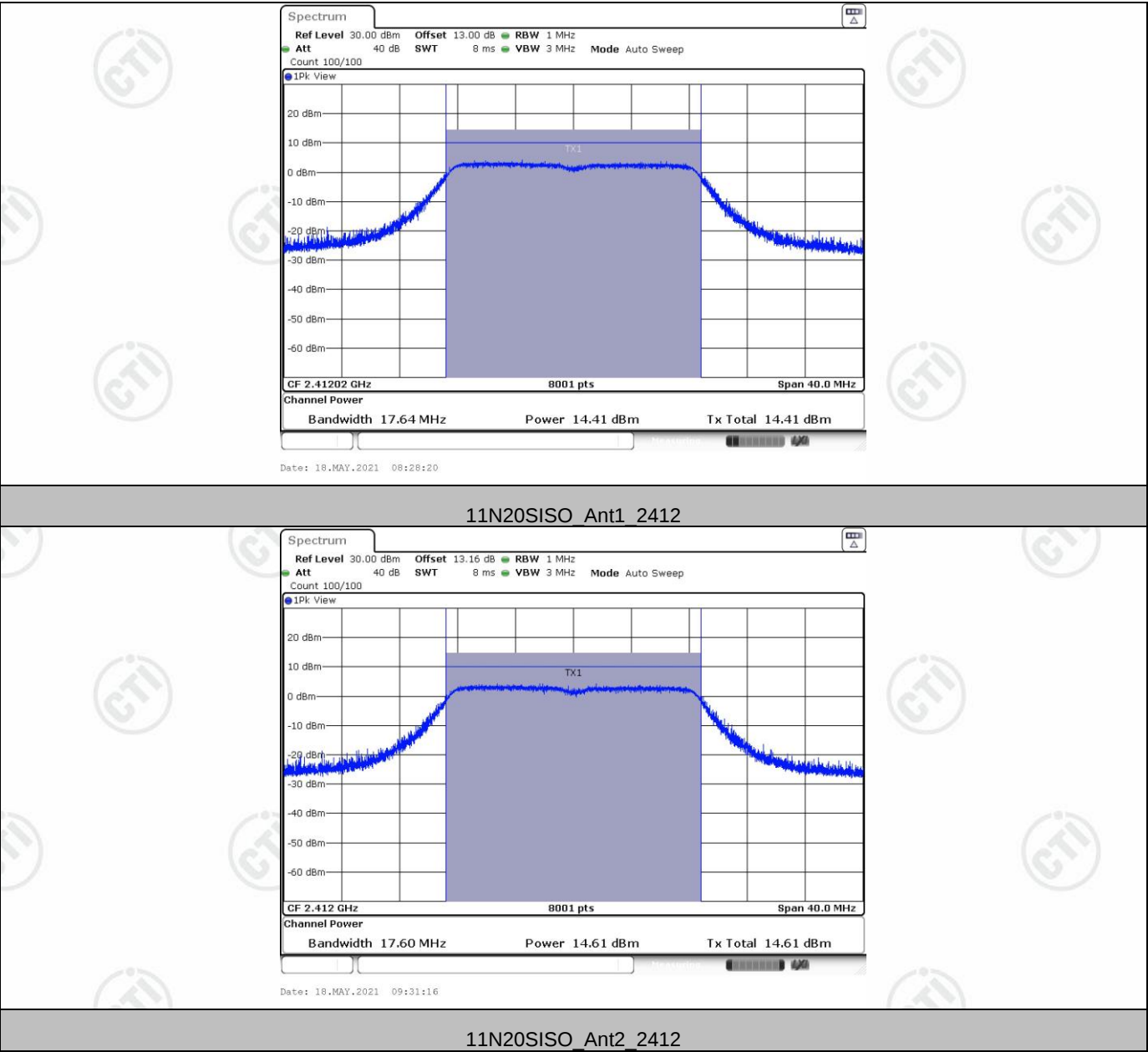


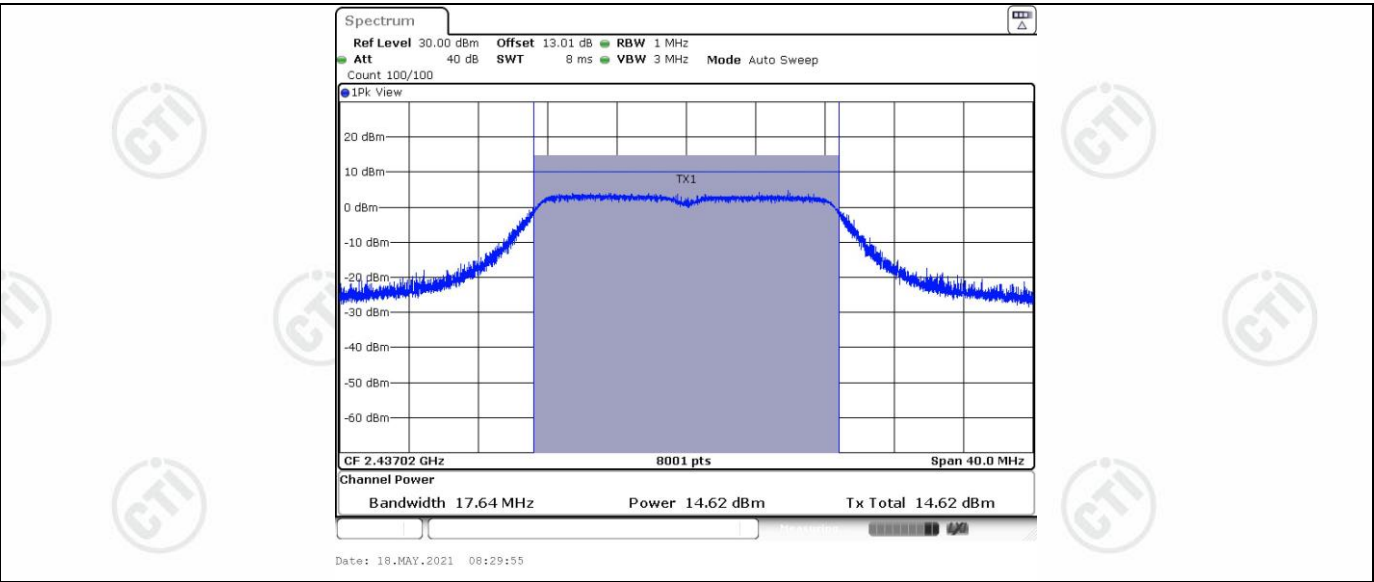


11G Ant1 2462

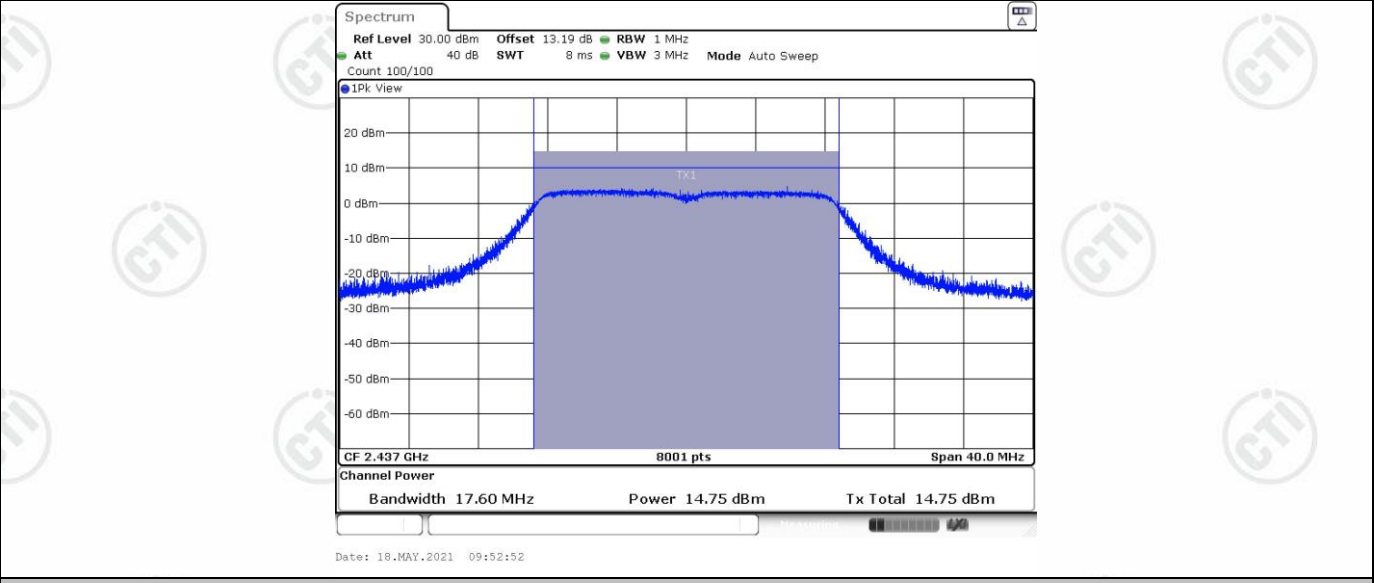


11G Ant2 2462

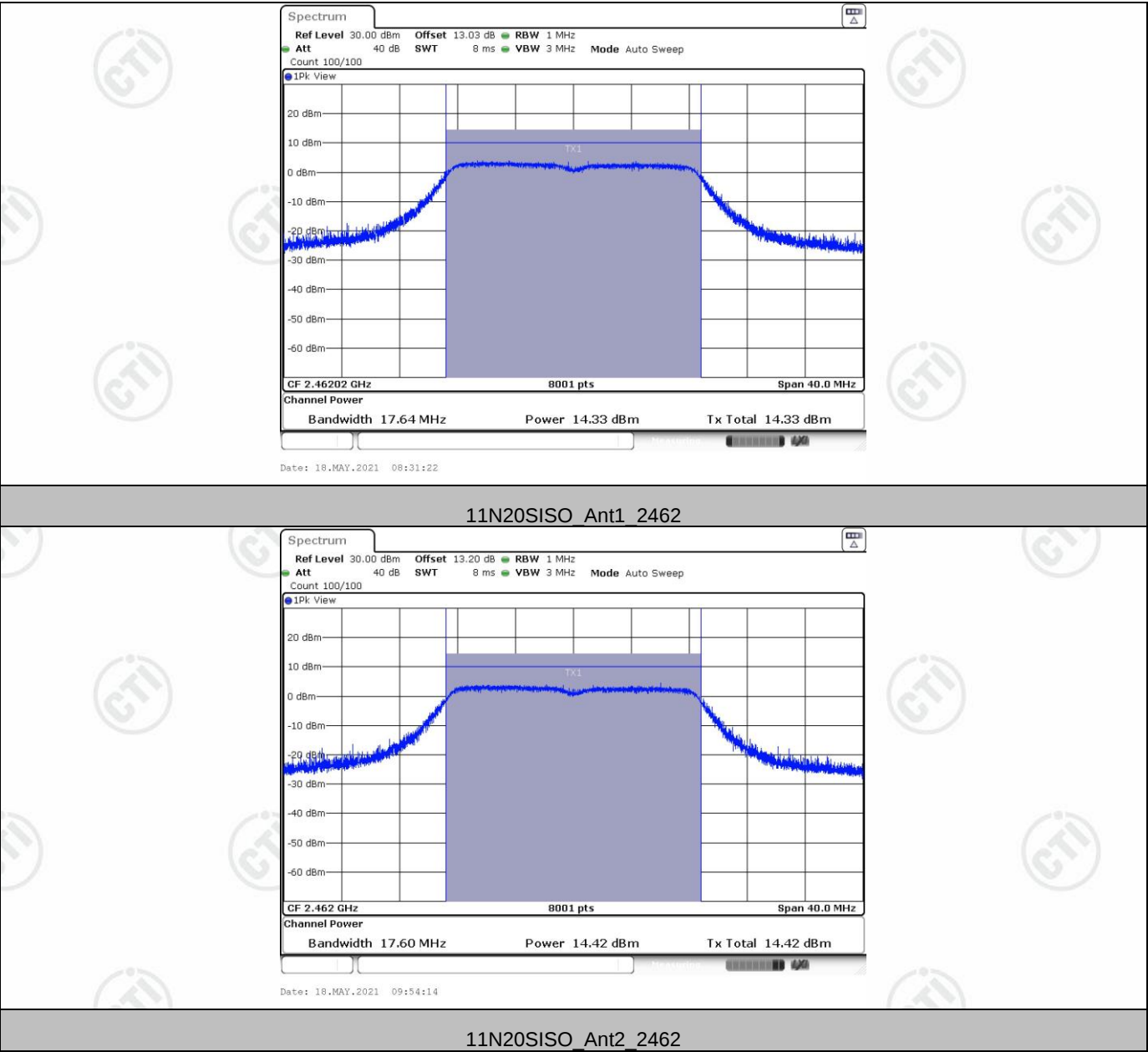




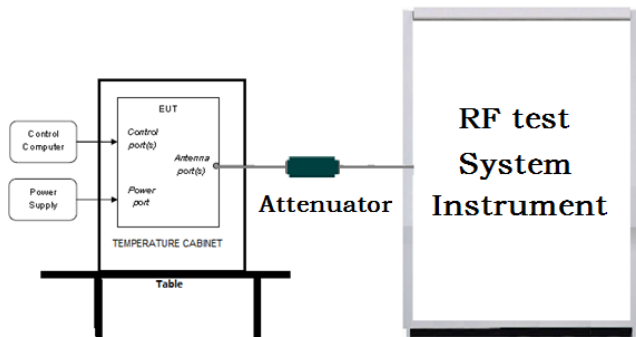
11N20SISO Ant1 2437



11N20SISO Ant2 2437



## Appendix B): DTS Bandwidth

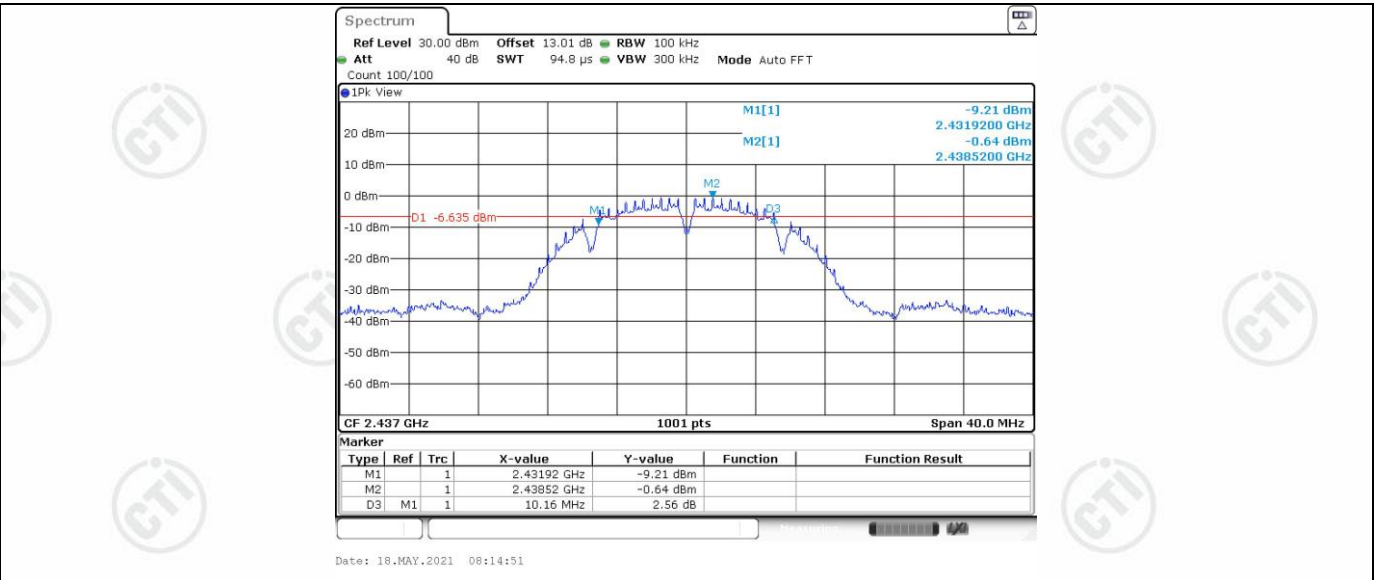
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | 47 CFR Part 15C Section 15.247 (a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Test Method:</b>      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Test Setup:</b>       |  <p>Remark: Offset=Cable loss+ attenuation factor.</p>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Test Procedure:</b>   | <ul style="list-style-type: none"> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the VBW <math>\geq [3 \times \text{RBW}]</math>.</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max hold.</li> <li>e) Sweep = auto couple.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</li> </ul> |
| <b>Limit:</b>            | $\geq 500 \text{ kHz}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Test Mode:</b>        | Refer to clause 2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test Results:</b>     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Result Table:

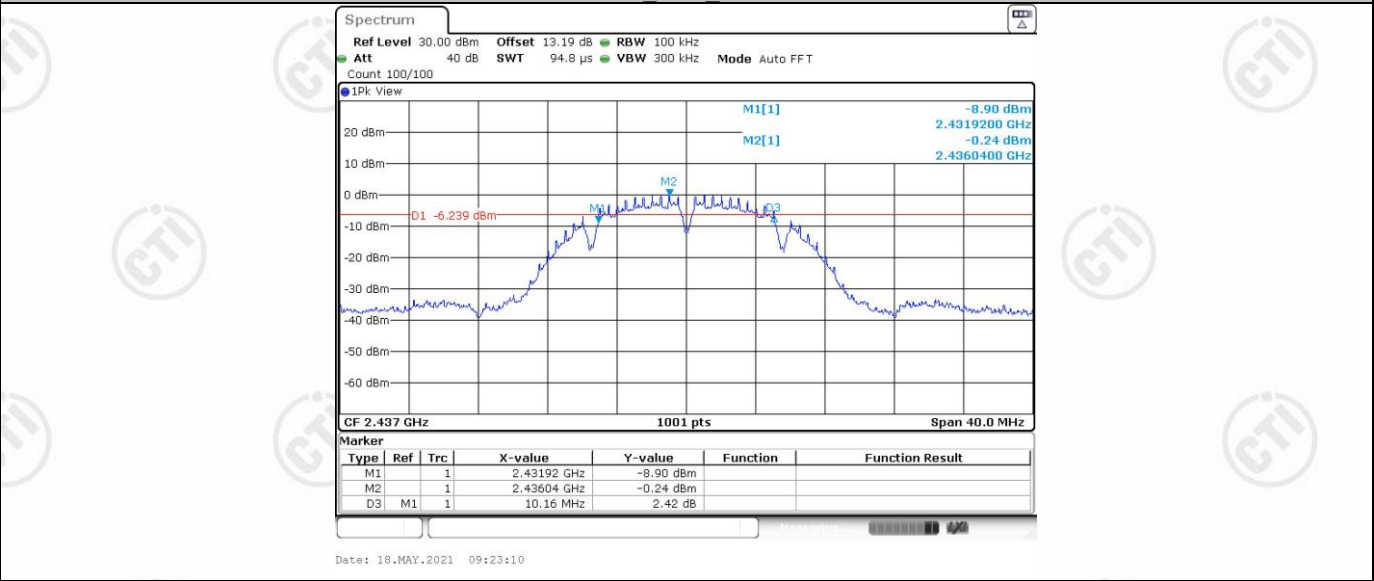
| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 10.200       | 2406.920 | 2417.120 | 0.5        | PASS    |
|           | Ant2    | 2412    | 10.120       | 2406.960 | 2417.080 | 0.5        | PASS    |
|           | Ant1    | 2437    | 10.160       | 2431.920 | 2442.080 | 0.5        | PASS    |
|           | Ant2    | 2437    | 10.160       | 2431.920 | 2442.080 | 0.5        | PASS    |
|           | Ant1    | 2462    | 10.160       | 2456.920 | 2467.080 | 0.5        | PASS    |
|           | Ant2    | 2462    | 10.120       | 2456.960 | 2467.080 | 0.5        | PASS    |
| 11G       | Ant1    | 2412    | 16.400       | 2403.800 | 2420.200 | 0.5        | PASS    |
|           | Ant2    | 2412    | 16.440       | 2403.800 | 2420.240 | 0.5        | PASS    |
|           | Ant1    | 2437    | 16.440       | 2428.800 | 2445.240 | 0.5        | PASS    |
|           | Ant2    | 2437    | 16.400       | 2428.800 | 2445.200 | 0.5        | PASS    |
|           | Ant1    | 2462    | 16.440       | 2453.800 | 2470.240 | 0.5        | PASS    |
|           | Ant2    | 2462    | 16.400       | 2453.800 | 2470.200 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412    | 17.640       | 2403.200 | 2420.840 | 0.5        | PASS    |
|           | Ant2    | 2412    | 17.600       | 2403.200 | 2420.800 | 0.5        | PASS    |
|           | Ant1    | 2437    | 17.640       | 2428.200 | 2445.840 | 0.5        | PASS    |
|           | Ant2    | 2437    | 17.600       | 2428.200 | 2445.800 | 0.5        | PASS    |
|           | Ant1    | 2462    | 17.640       | 2453.200 | 2470.840 | 0.5        | PASS    |
|           | Ant2    | 2462    | 17.600       | 2453.200 | 2470.800 | 0.5        | PASS    |

Test Graph:

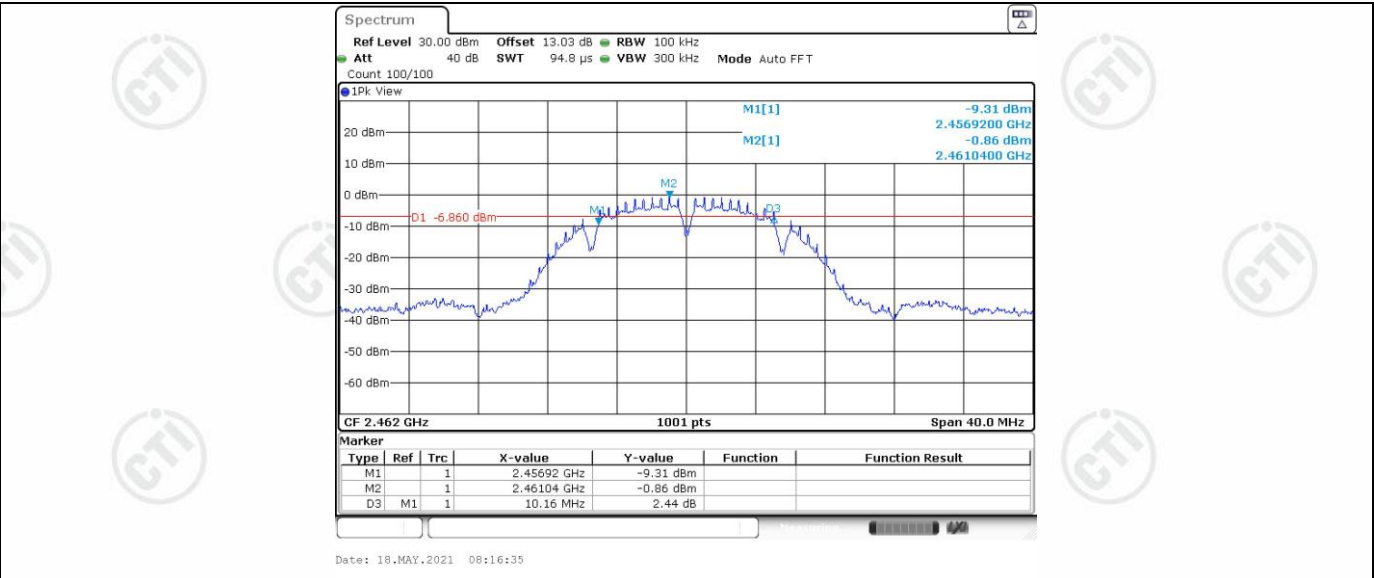




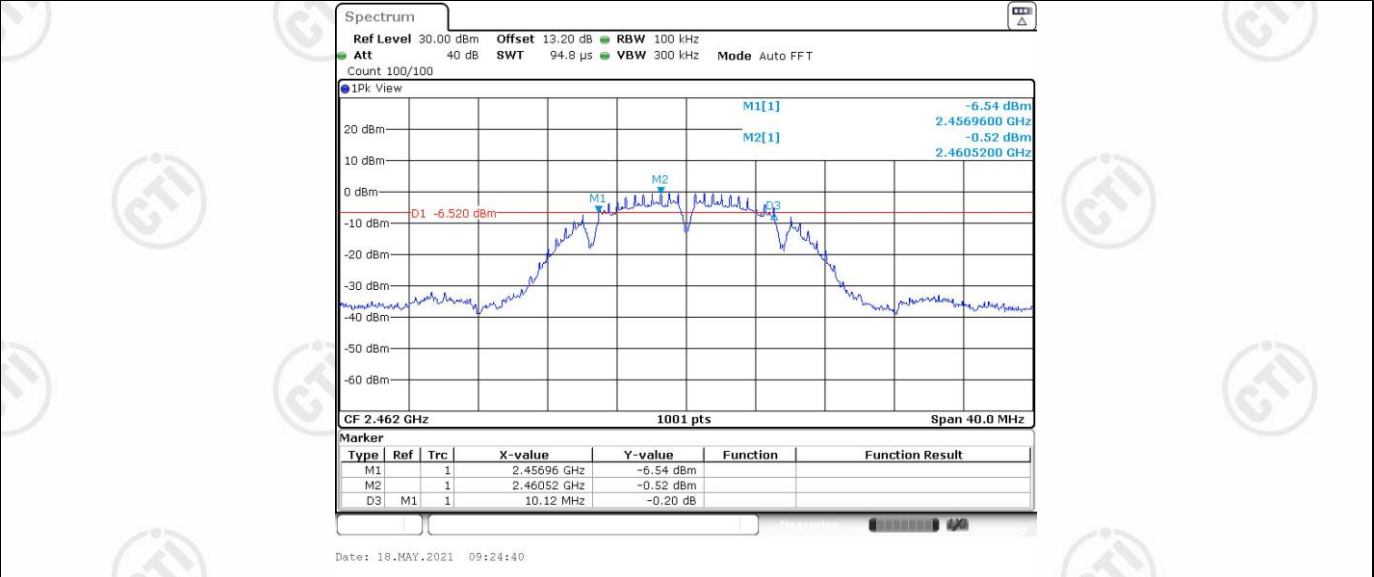
11B Ant1 2437



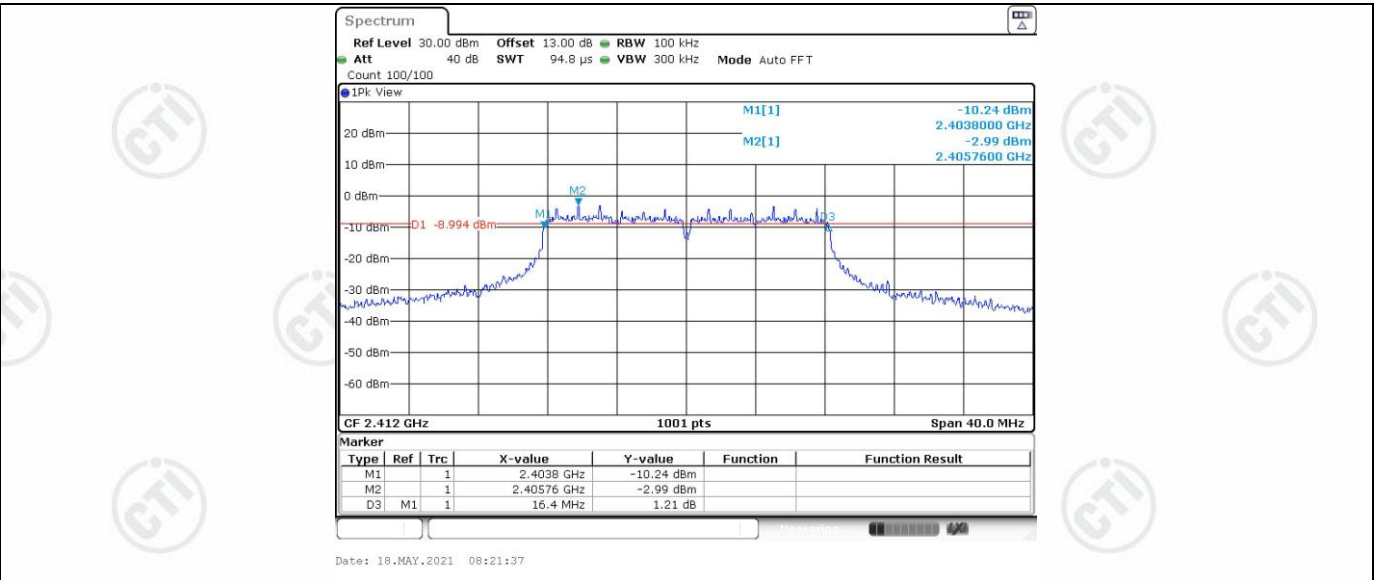
11B Ant2 2437



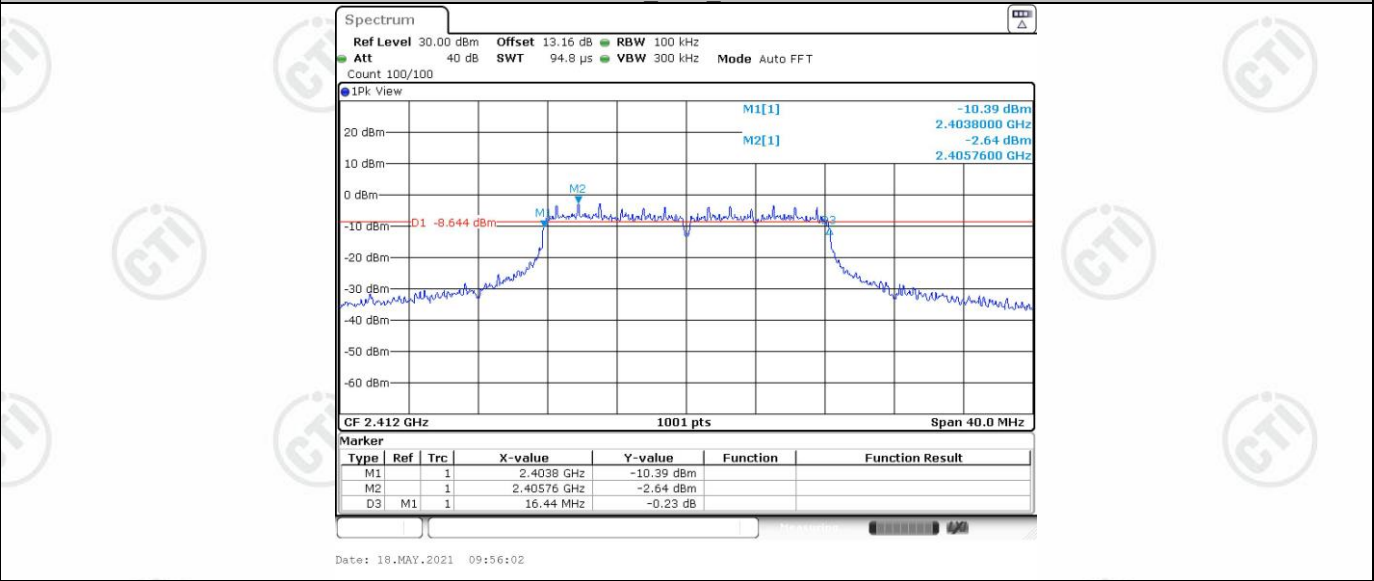
11B Ant1 2462



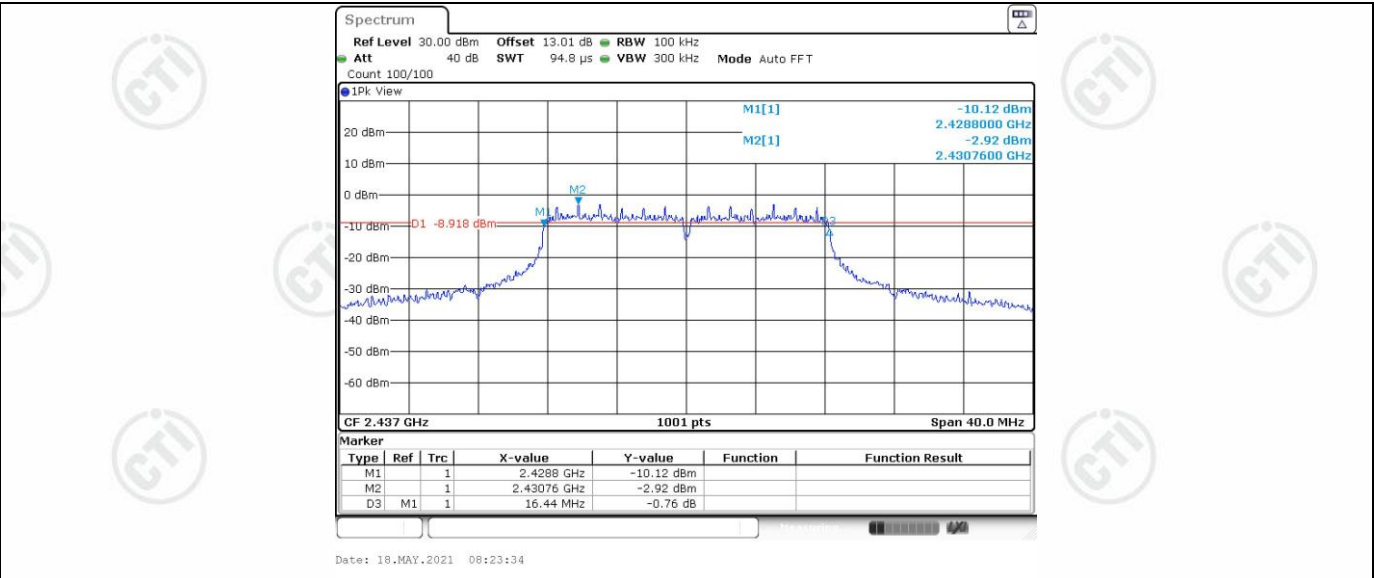
11B Ant2 2462



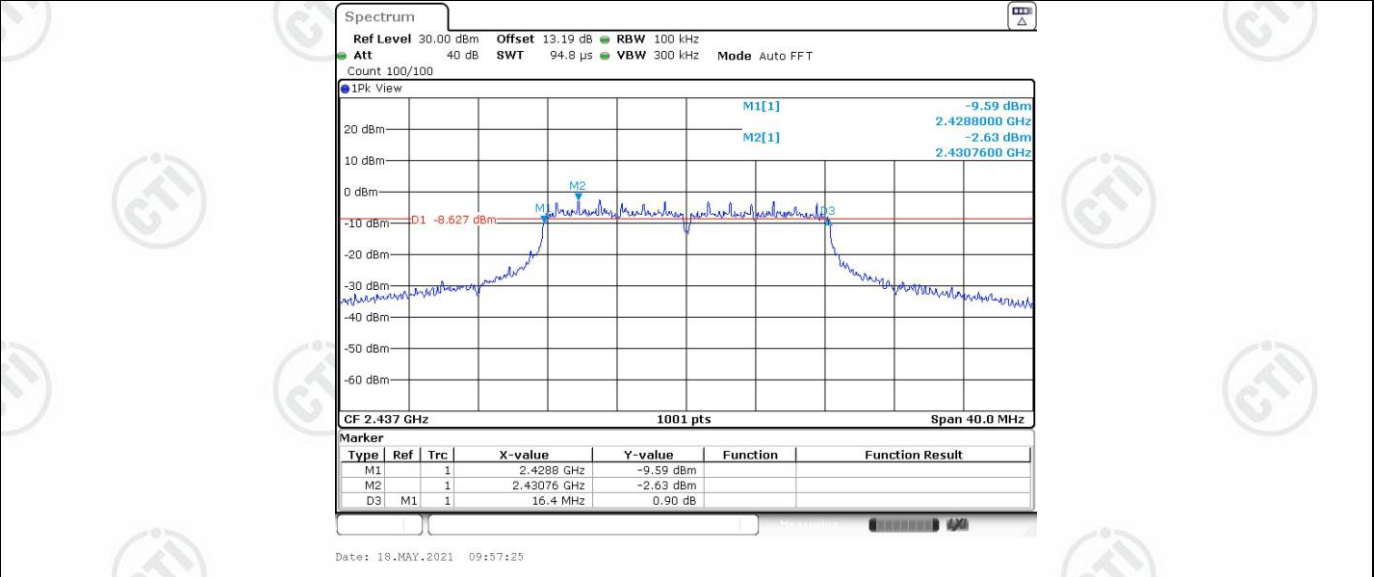
11G Ant1 2412



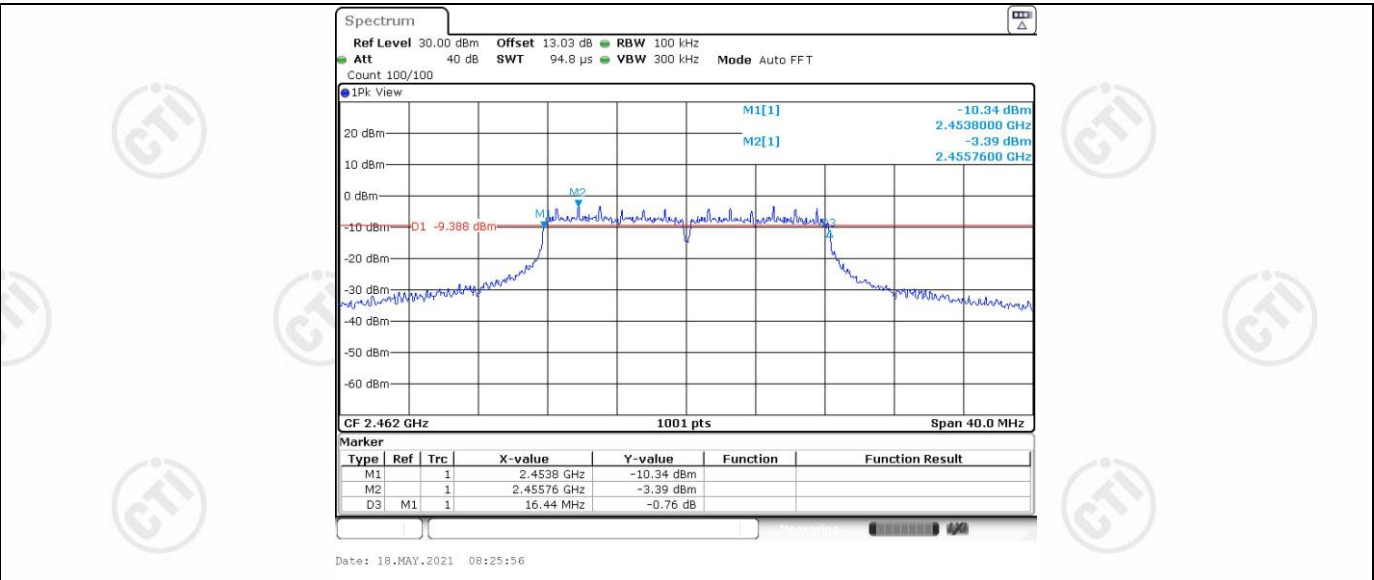
11G Ant2 2412



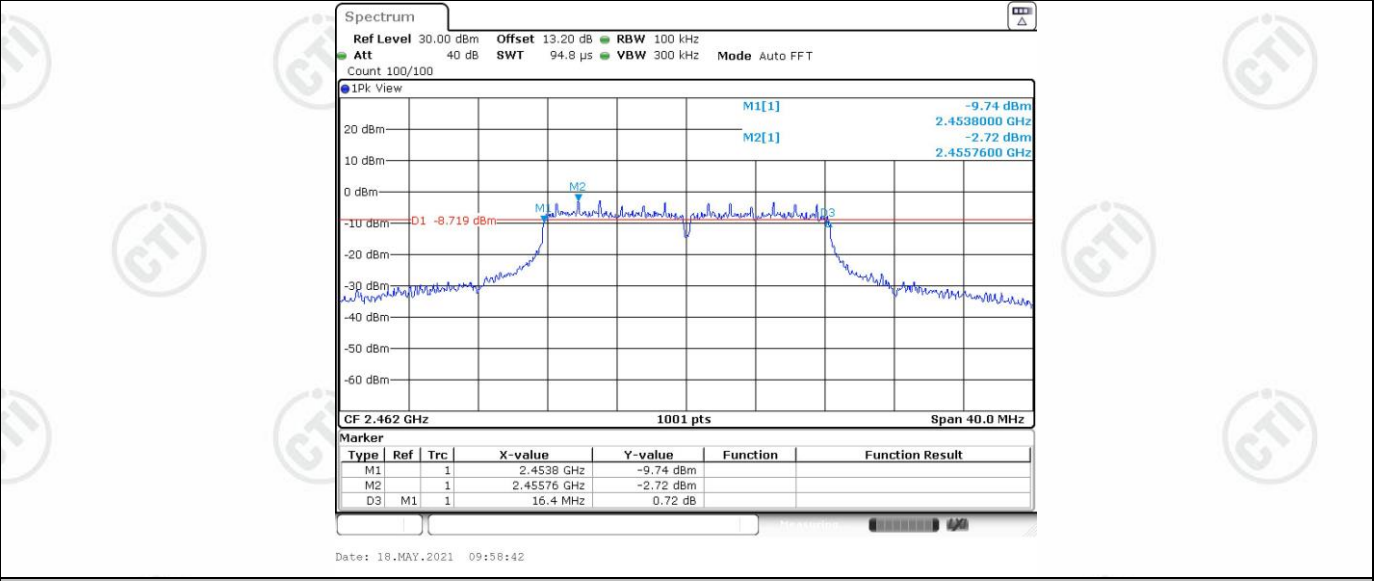
11G Ant1 2437



11G Ant2 2437

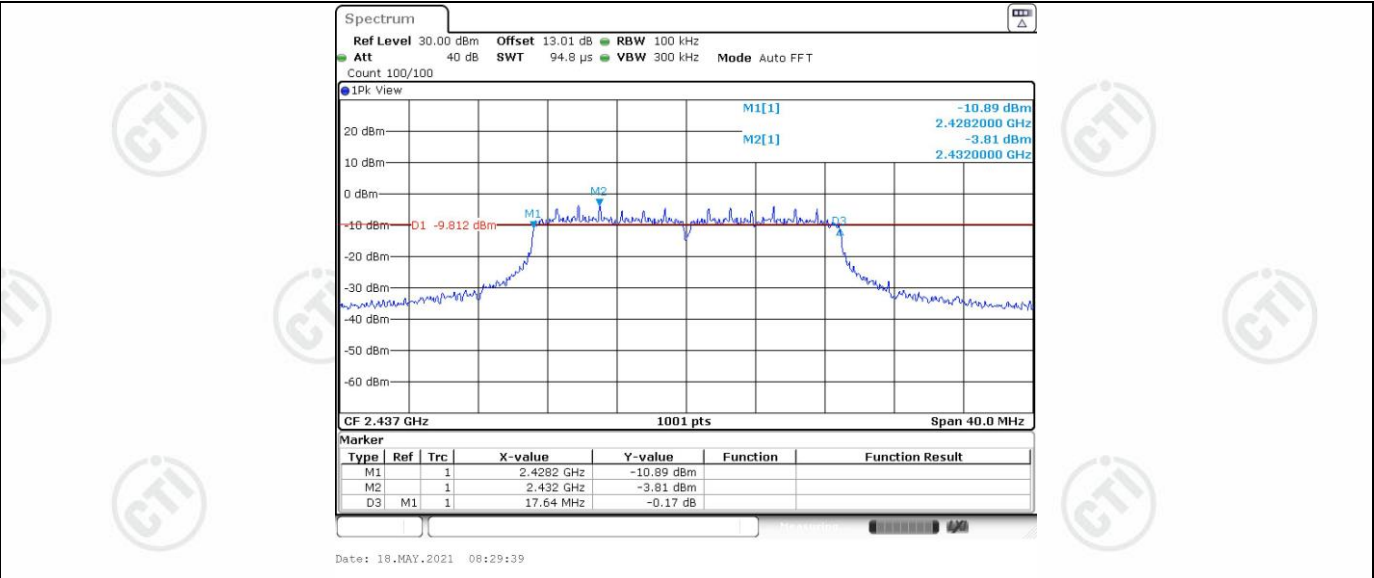


11G Ant1 2462

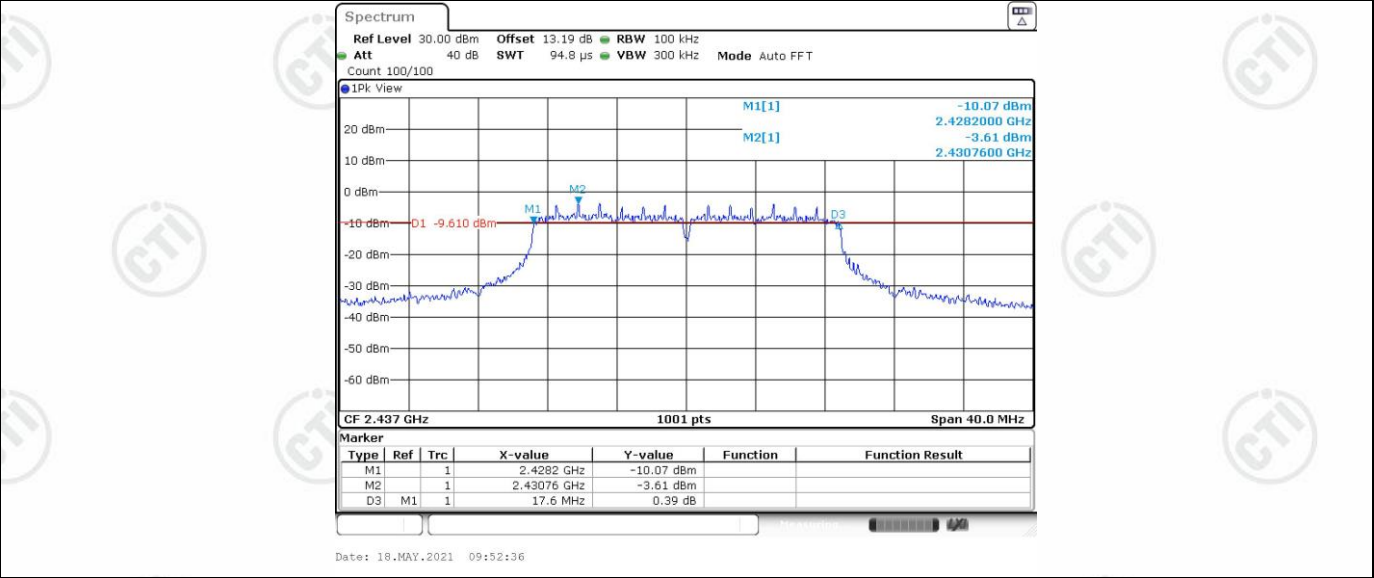


11G Ant2 2462

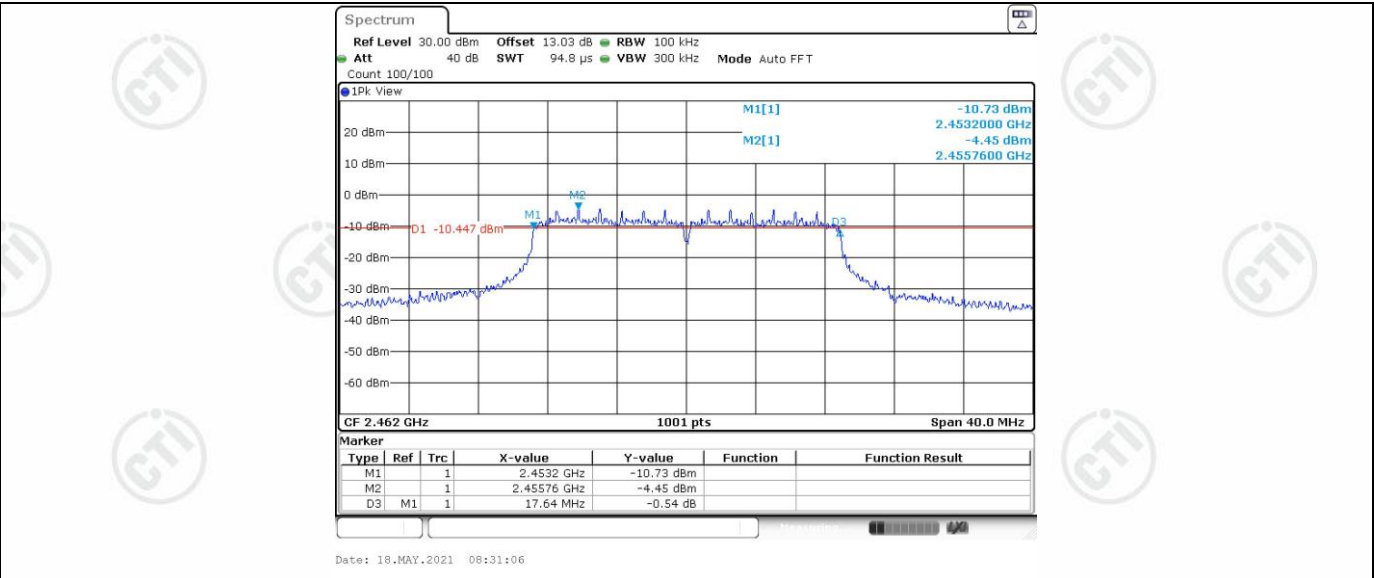




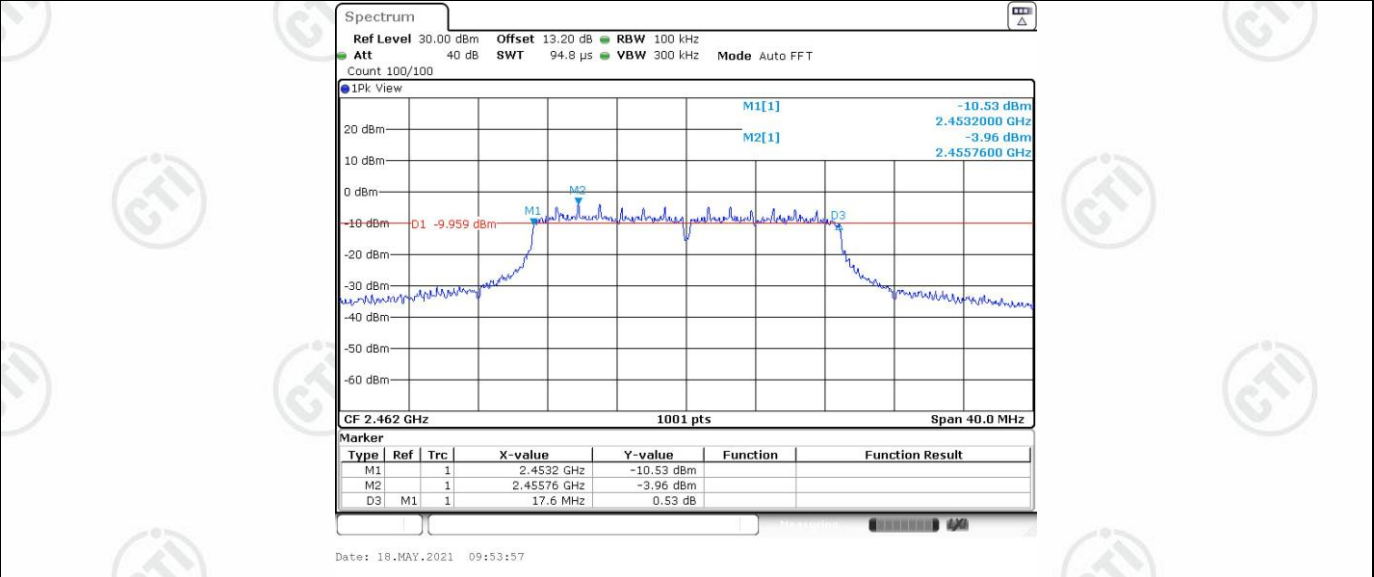
11N20SISO Ant1 2437



11N20SISO Ant2 2437

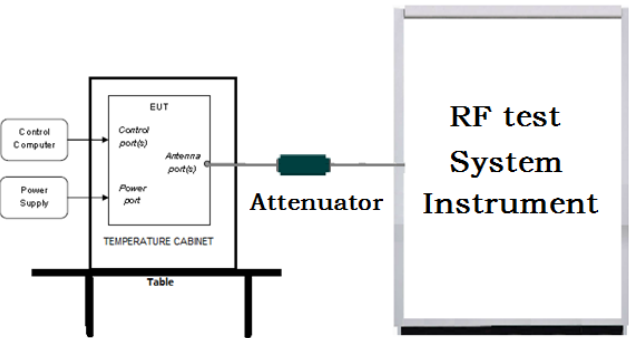


11N20SISO Ant1 2462



11N20SISO Ant2 2462

## Appendix C): Band-edge for RF Conducted Emissions

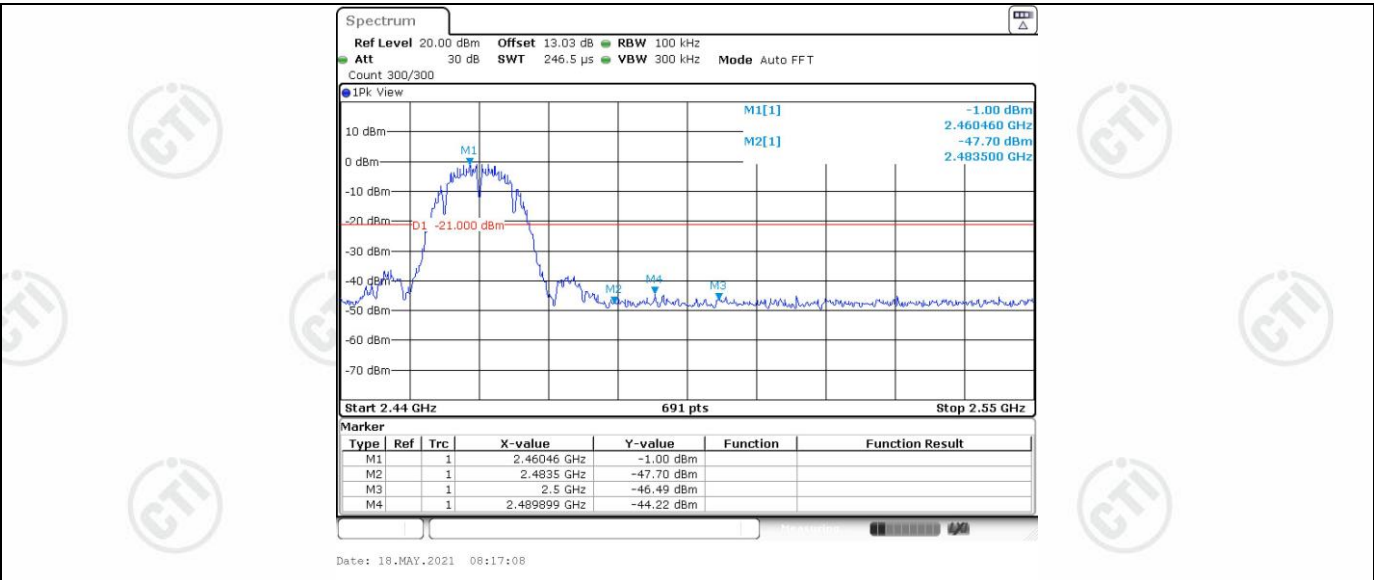
|                          |                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| <b>Test Method:</b>      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Test Setup:</b>       |  <p>Remark: Offset=Cable loss+ attenuation factor.</p>                                                                                                                                                                                                                                                |
| <b>Test Procedure:</b>   | <ul style="list-style-type: none"> <li>a) Set RBW = 100KHz.</li> <li>b) Set VBW = 300KHz.</li> <li>c) Sweep time = auto couple.</li> <li>d) Detector = peak.</li> <li>e) Trace mode = max hold.</li> <li>f) Allow trace to fully stabilize.</li> <li>g) Use peak marker function to determine the peak amplitude level.</li> </ul>                                                      |
| <b>Limit:</b>            | 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. |
| <b>Test Mode:</b>        | Refer to clause 2.2                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Results:</b>     | Pass                                                                                                                                                                                                                                                                                                                                                                                    |

## Result Table:

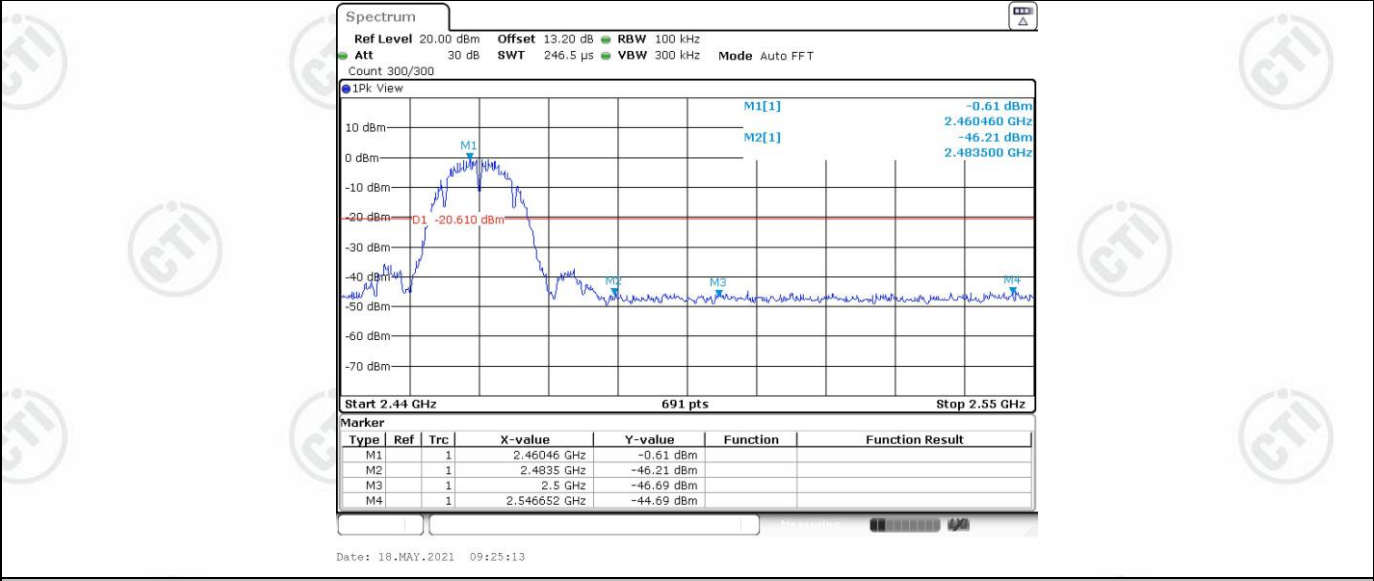
| Test Mode | Antenna | Ch Name | Channel | Ref Level[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|---------|---------|----------------|-------------|---------------|---------|
| 11B       | Ant1    | Low     | 2412    | -1.22          | -37.51      | $\leq -21.22$ | PASS    |
|           | Ant2    | Low     | 2412    | -0.42          | -37.83      | $\leq -20.42$ | PASS    |
|           | Ant1    | High    | 2462    | -1.00          | -44.22      | $\leq -21$    | PASS    |
|           | Ant2    | High    | 2462    | -0.61          | -44.69      | $\leq -20.61$ | PASS    |
|           | Total   | Low     | 2412    | 2.49           | -36.96      | $\leq -17.51$ | PASS    |
|           |         | High    | 2462    | 1.28           | -47.26      | $\leq -18.72$ | PASS    |
| 11G       | Ant1    | Low     | 2412    | -3.32          | -31.48      | $\leq -23.32$ | PASS    |
|           | Ant2    | Low     | 2412    | -4.26          | -30.82      | $\leq -24.26$ | PASS    |
|           | Ant1    | High    | 2462    | -3.98          | -40.99      | $\leq -23.98$ | PASS    |
|           | Ant2    | High    | 2462    | -2.63          | -41.96      | $\leq -22.63$ | PASS    |
|           | Total   | Low     | 2412    | 0.97           | -24.72      | $\leq -19.03$ | PASS    |
|           |         | High    | 2462    | 0.69           | -36.17      | $\leq -19.31$ | PASS    |
| 11N20     | Ant1    | Low     | 2412    | -5.18          | -32.16      | $\leq -25.18$ | PASS    |
|           | Ant2    | Low     | 2412    | -4.05          | -32.49      | $\leq -24.05$ | PASS    |
|           | Ant1    | High    | 2462    | -4.67          | -42.65      | $\leq -24.67$ | PASS    |
|           | Ant2    | High    | 2462    | -4.13          | -41.9       | $\leq -24.13$ | PASS    |
|           | Total   | Low     | 2412    | 0.63           | -28.87      | $\leq -19.37$ | PASS    |
|           |         | High    | 2462    | 1.41           | -36.88      | $\leq -18.59$ | PASS    |

Test Graph:





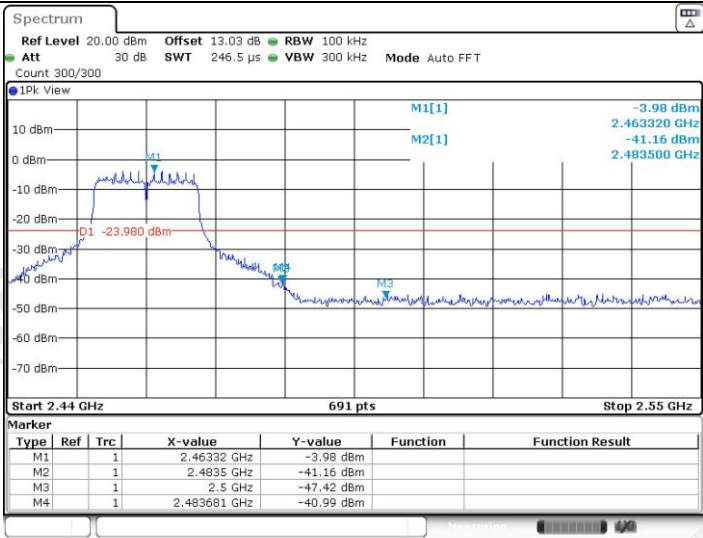
11B Ant1 High 2462



11B Ant2 High 2462

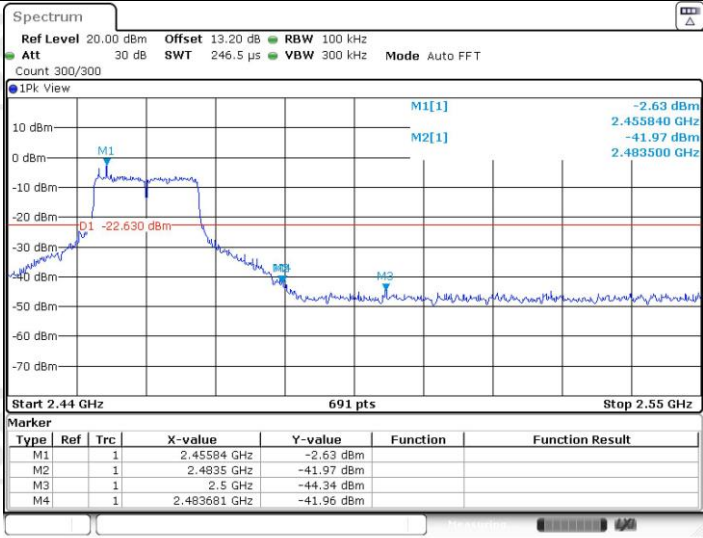






Date: 18.MAY.2021 08:26:29

11G Ant1 High 2462

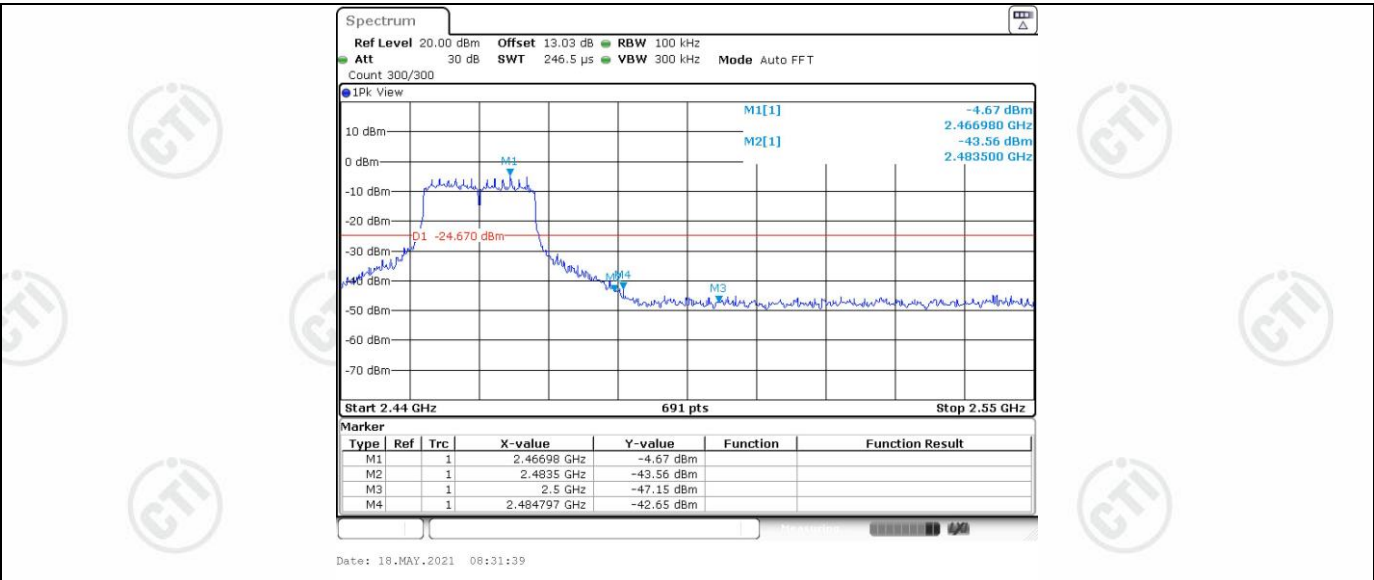


Date: 18.MAY.2021 09:59:15

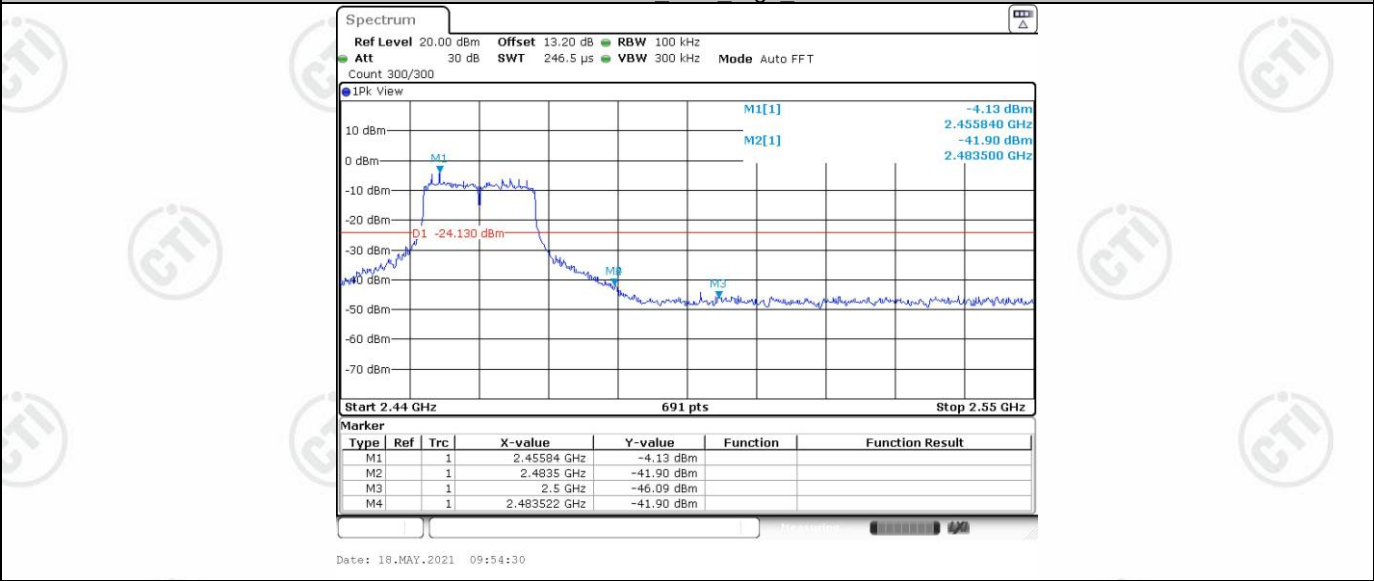
11G Ant2 High 2462







11N20SISO Ant1 High 2462



11N20SISO Ant2 High 2462

