# RF Test Report

## 2.4 GHz WLAN 802.11b/g/n/ax

| | | |
|---|---|---|
| **Report No.** | : | FCCCMKP-WAY-P23090062-1 |
| **Customer** | : | DAVOLINK Inc. |
| **Address** | : | 112, Beolmal-ro, Dongan-gu Anyang-si, Gyeounggi-do South Korea 14057 |
| **Use of Report** | : | Certification |
| **Model Name** | : | DVW-632 |
| **FCC ID** | : | RZEDVW-632 |
| **Date of Test** | : | 2023.09.06 to 2023.10.06 |
| **Test Method Used** | : | FCC 47 CFR PART 15 Subpart C (Section §15.247)<br>KDB558074 D01v05r02,<br>ANSI C63.10-2013 |
| **Testing Environment** | : | Refer to the Test Condition |

**Test Result :** ☒ **Pass** ☐ **Fail**

| | |
|---|---|
| **ISSUED BY:** | BV CPS ADT Korea Ltd., EMC/RF Laboratory |
| **ADDRESS:** | Innoplex No.2 106, Sinwon-ro 306, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea 16675 |
| **TEST LOCATION:** | HeungAn-daero 49, DongAn-gu, Anyang-si, Gyeonggi-do, Korea, 14119 |

Tested by

Name : Donghwa SHIN (Signature)

Technical Manager

Name : Jungwoo Kim (Signature)

**2023. 10. 10**

**BV CPS ADT Korea Ltd.**

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

## RELEASE CONTROL RECORD

| REPORT NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| FCCCMKP-WAY-P23090062-1 | Original release | 2023.10.10 |
| | | |
| | | |

# Table of Contents

# 1 Summary of Test Results

The EUT has been tested according to the following specifications

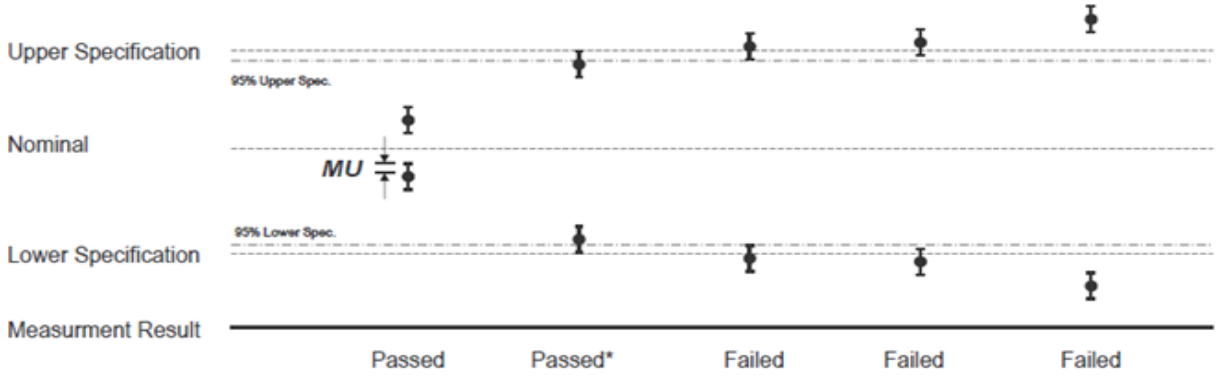
| Applied Standard : FCC Part 15, Subpart C 15.247 | | | | | |
|---|---|---|---|---|---|
| **FCC Part Section(s)** | **Test Description** | **Limit** | **Test Condition** | **Test Result** | **Reference** |
| 15.247(a)(2) | 6 dB Bandwidth | > 500 kHz | Conduted | PASS | Section 3.2 |
| 15.247(b)(3) | Maximum Peak Output Power | < 1 Watt | | PASS | Section 3.3 |
| 15.247(e) | Power Spectral Density | < 8 dBm / 3 kHz | | PASS | Section 3.4 |
| 15.247(d) | Conducted spurious emissions | ≥ 20 dBc In any 100 kHz bandwidth | | PASS | Section 3.5 |
| 15.205 15.209 | General Field Strength Limits (Restricted Bands and Radiated Emission Limits) | Emissions in Restricted bands must meet the radiated limits detailed in 15.209 | Radiated | PASS | Section 3.5 |
| 15.207 | AC Conducted Emissions (150 kHz – 30 MHz) | < FCC 15.207 limits | AC Line Conduted | PASS | Section 3.6 |
| 15.203 | Antenna Requirement | FCC 15.203 | - | PASS | Section 3.1 |

**NOTES**

**1)** The general test methods used to test on this devices are ANSI C63.10.

**2)** Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 1.1 Decision Rules for Statement of Conformity




**QUA-52 Decision Rule(QA Document) was applied.**

**Step 1) :** Reference Check, Daily Check, Peripheral device Check

**Step 2) :** Re-test Procedure (Repeat the test maximum 3 times, Different Test Engineer)

1) If the original test results are subject to retesting and the judgement is unclear, the retest is carried out.
2) If the result of the first retest is the same as the initial test, the judgement is made based on the value.
3) If the result of the first retest differ from the results of the initial test, the second re-test is carried out.
4) After completion of the second retest, the average of the three test results is determined as the final result. However, if the deviation of the three test values is more than 5 % of the reference value, the technical manager should review the reproducibility of the test from the beginning.

## 1.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2

| Measurement Items | Frequency Range | Expanded Uncertainty U = *k*Uc (*k* = 2) |
|---|---|---|
| Radiated Spurious Emissions | 9 kHz – 30 MHz | 2.00 |
| | 30 MHz – 1 GHz | 4.22 |
| | 1 GHz – 18 GHz | 5.40 |
| | 18 GHz – 26.5 GHz | 5.08 |
| **Measurement Items** | | **Expanded Uncertainty U = *k*Uc (*k* = 2)** |
| Conducted | Maximum Output Power | 1.20 |
| | Spurious Emissions | 1.36 |
| **Measurement Items** | **Frequency Range** | **Expanded Uncertainty U = *k*Uc (*k* = 2)** |
| AC Conducted | 150 kHz – 30 MHz | 3.10 |

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

# 2 General Information

## 2.1 General Description of EUT

| | |
|---|---|
| **Equipment Class** | Digital Transmission System (DTS) |
| **Product name** | KEVIN |
| **FCC ID** | RZEDVW-632 |
| **Model** | DVW-632 |
| **Additional model name** | - |
| **Power Supply** | DC 12 V |
| **Modulation Type** | 802.11b: CCK, DSSS<br>802.11g/n/ax: OFDM |
| **Transfer Rate** | 1, 2, 5.5, 11 Mbps (802.11b) / SISO<br>6, 9, 12, 18, 24, 36, 48, 54 Mbps (802.11g) / SISO<br>MCS0 to MCS15 (802.11n) / 2TX MIMO<br>MCS0 to MCS11 (802.11ax) / 2TX MIMO |
| **Operating Frequency** | 802.11b/g/n(HT20)/ax(HE20): 2 412 MHz to 2 462 MHz<br>802.11n(HT40)/ax(HE40): 2 422 MHz to 2 452 MHz |
| **Output Power (Peak / Average)** | 29.56 dBm / 22.32 dBm |
| **Antenna Type** | PCB Antenna |
| **Antenna Gain** | ANT 1: 5.96 dBi<br>ANT 2: 5.92 dBi<br>Direction gain NOTE3 : 5.94 dBi |
| **H/W Version** | 1.1 |
| **S/W Version** | r7331 |

**NOTE 1:** For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

**NOTE 2:** For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

**NOTE 3:** Directional gain (completely uncorrelated signal with unequal antenna gain and equal transmit power)
$10 \log [ ( 10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10} ) / N^{ANT} ]$ dBi

## 2.2 Tested sample and Tested companion device information

| Type | Model | Note |
|---|---|---|
| Test sample (Conducted) | DVW-632 | S/N: DVW632IA20CDD01007 |
| Test sample (Radiated) | DVW-632 | S/N: DVW632IA20CDD01012 |

## 2.3 Description of Test Mode

The EUT has been tested with all modes of operating conditions to determine the worst case emission characteristics.

| Test Mode | | Worst case data rate | Tested Frequency (MHz) | | |
|---|---|---|---|---|---|
| **TM 1** | 802.11b | 1 Mbps | 2 412 | 2 437 | 2 462 |
| **TM 2** | 802.11g | 6 Mbps | 2 412 | 2 437 | 2 462 |
| **TM 3** | 802.11n(HT20) | MCS 8 | 2 412 | 2 437 | 2 462 |
| **TM 4** | 802.11n(HT40) | MCS 8 | 2 422 | 2 437 | 2 452 |
| **TM 5** | 802.11ax(HE20) | MCS 0 NSS 2 | 2 412 | 2 437 | 2 462 |
| **TM 6** | 802.11ax(HE40) | MCS 0 NSS 2 | 2 422 | 2 437 | 2 452 |

Note: b,g mode support SISO and n,ax mode support MIMO.

## 2.4 INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

## 2.5 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

## 2.6 General Description of Applied Standards

Generally the tests were performed according to the specifications of the standard, it must comply with the requirements of the following standards.

**FCC CFR 47 Part 15, Subpart C (§15.247)**
**KDB 558074 D01 15.247 Meas Guidance v05r02**
**KDB 662911 D01 Multiple Transmitter Output v02r01**
**ANSI C63.10-2013**

All test items in this test report have been performed and recorded as per the above standards.

## 2.7 Test Equipment

Test Equipment is traceable to the National Institute of Standards and Technology (NIST). Measurement antenna used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

| Equipment Name | Manufacturer | Model No. | Serial No. | Next Cal. Date |
|---|---|---|---|---|
| True-RMS Digital Multimeter | Fluke | 177 | 43240434 | 2024-05-25 |
| MXG Vector Signal Generator | Keysight Technologies | N5182B | MY53051310 | 2023-11-22 |
| Signal Generator | R&S | SMB100A | MY41006053 | 2024-05-25 |
| DC Power Supply | Keysight Technologies | E3632A | MY62246260 | 2024-05-25 |
| Active Loop Antenna | R&S | HFH2-Z2E | 100881 | 2025-02-03 |
| Trilog Antenna (with 6 dB ATT.) | Schwarzbeck | VULB 9163 | 1100 | 2025-02-08 |
| Horn Antenna | R&S | HF907 | 102773 | 2023-12-22 |
| BBHA 9170 Broad-Band Horn Antenna | Schwarzbeck | BBHA9170 | 00955 | 2023-11-30 |
| Signal Conditioning Unit | R&S | SCU-18F | 180112 | 2023-11-21 |
| Signal Conditioning Unit | R&S | SCU08F2 | 08400015 | 2023-11-21 |
| Amplifier | L3 Narda-MITEQ | JS44-18004000-33-8P | 2142086 | 2023-11-22 |
| EMI Test Receiver | R&S | ESW8 | 101170 | 2023-11-21 |
| EMI Test Receiver | R&S | ESW44 | 101812 | 2023-11-22 |
| Spectrum Analyzer | R&S | FSW50 | 101403 | 2023-11-22 |
| Signal Analyzer | Keysight Technologies | N9020B | MY62150135 | 2024-05-25 |
| Signal Analyzer | Keysight Technologies | N9030B | MY57142476 | 2023-11-22 |
| Humidity Barometer TEMP Meter | LUTRON | MHB-382SD | AJ.38459 | 2023-11-29 |
| Humidity Barometer TEMP Meter | LUTRON | MHB-382SD | AJ.38482 | 2023-11-22 |
| Attenuator | Aeroflex | 40AH2W-10 | 1 | 2023-11-22 |
| High Pass Filter | Micro-Tronics | HPM17543 | 28 | 2024-05-25 |
| Open Switch and Control Unit | R&S | OSP120 | 102245 | - |
| MIMO Power Set Master | Keysight Technologies | MP400B | 206625 | 2023-12-02 |
| LISN | R&S | ENV216 | 102437 | 2023-11-22 |
| EMI Test Receiver | R&S | ESR | 102529 | 2023-11-21 |
| EMC 32(CE) | R&S | EMC 32 | Version 10.50.40 | |
| EMC 32(RSE) | R&S | EMC 32 | Version 10.35.10 | |

# 3 Test Results

## 3.1 Antenna Requirement

**Except from §15.203 of the FCC Rules/Regulations:**

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of the section.

- The antenna of the EUT is attached to the UFL Type. (FPC Antenna)

**Result**
The EUT complies with the requirement of §15.203

## 3.2 6 dB Bandwidth

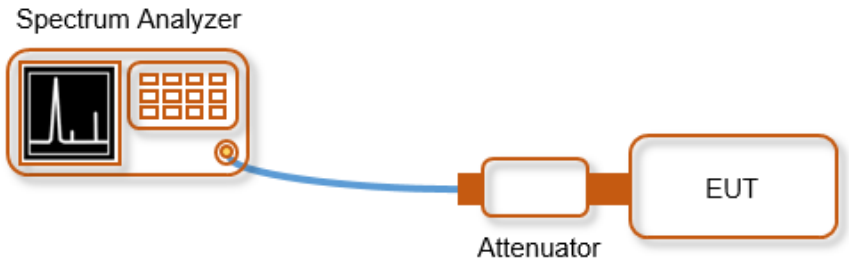
### 3.2.1 Regulation

§15.247(a)(2) : Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. **The minimum 6 dB bandwidth shall be at least 500 kHz.**

### 3.2.2 Test Procedure

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥6 dB.

### 3.2.3 Test Setup



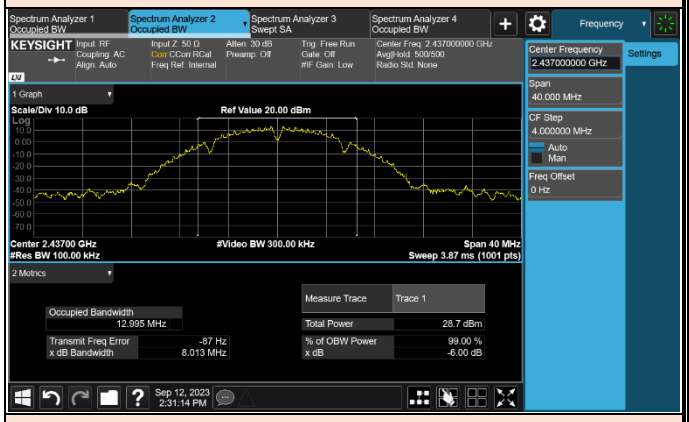
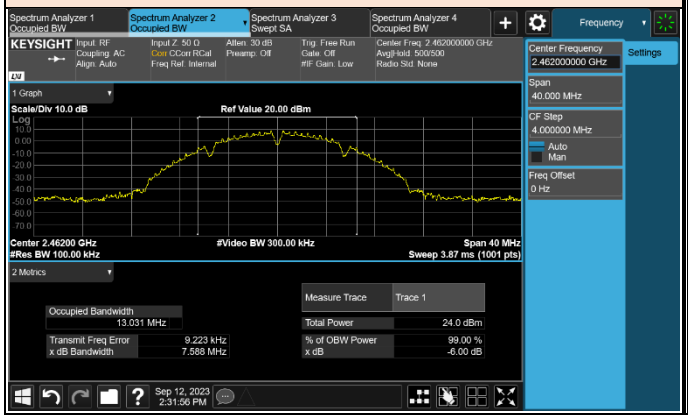
### 3.2.4 Test Result

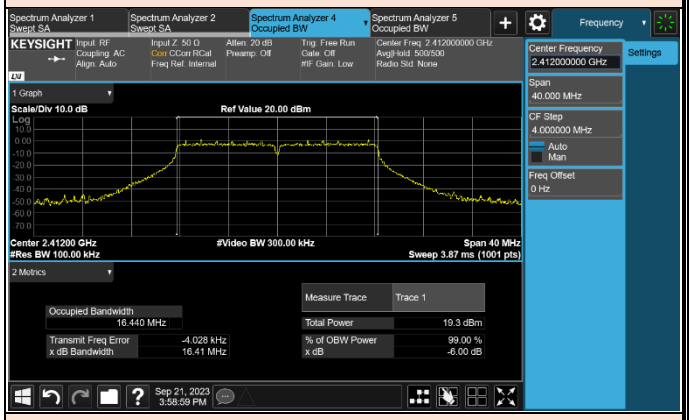
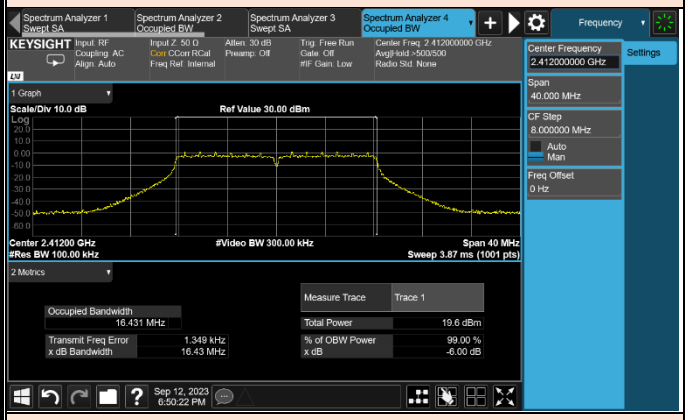
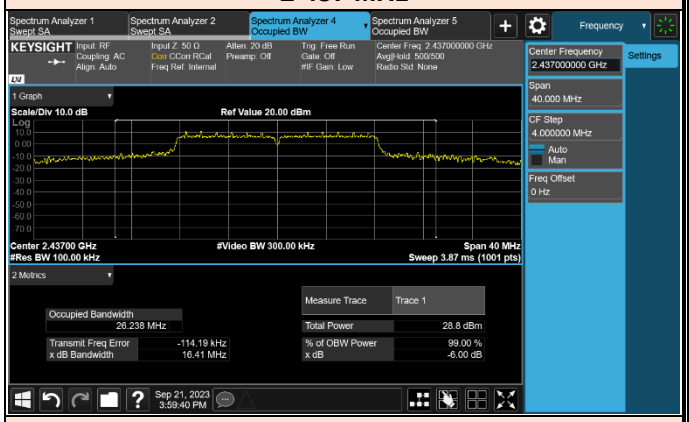
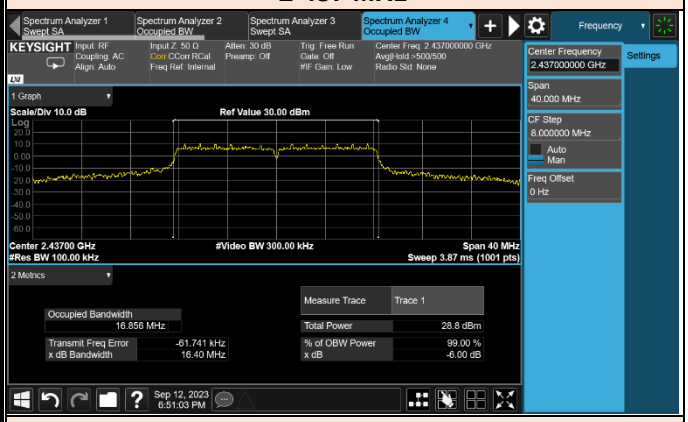
**[Test Data of 6 dB Bandwidth]**

**Limit: The minimum 6 dB bandwidth shall be at least 500 kHz.**

| Test Mode | Tested Frequency | 6dB Bandwidth [MHz] | |
|---|---|---|---|
| | | ANT 1 | ANT 2 |
| TM 1 | 2 412 | 8.10 | 8.12 |
| | 2 437 | 8.01 | 8.11 |
| | 2 462 | 7.59 | 8.11 |
| TM 2 | 2 412 | 16.41 | 16.43 |
| | 2 437 | 16.41 | 16.40 |
| | 2 462 | 16.43 | 16.41 |
| TM 3 | 2 412 | 17.67 | 17.67 |
| | 2 437 | 17.68 | 17.70 |
| | 2 462 | 17.68 | 17.67 |
| TM 4 | 2 422 | 36.49 | 36.49 |
| | 2 437 | 36.47 | 36.48 |
| | 2 452 | 36.45 | 36.47 |
| TM 5 | 2 412 | 19.01 | 19.04 |
| | 2 437 | 19.03 | 19.01 |
| | 2 462 | 19.10 | 19.11 |
| TM 6 | 2 422 | 38.22 | 38.20 |
| | 2 437 | 38.12 | 38.19 |
| | 2 452 | 38.21 | 38.25 |

## [Test Plot of 6 dB Bandwidth]

| TM 1 | |
|---|---|
| **ANT 1** | **ANT 2** |
| **2 412 MHz** | **2 412 MHz** |
|  |  |
| **2 437 MHz** | **2 437 MHz** |
|  |  |
| **2 462 MHz** | **2 462 MHz** |
|  |  |

| TM 2 | |
|---|---|
| ANT 1 | ANT 2 |
| 2 412 MHz | 2 412 MHz |
|  |  |
| 2 437 MHz | 2 437 MHz |
|  |  |
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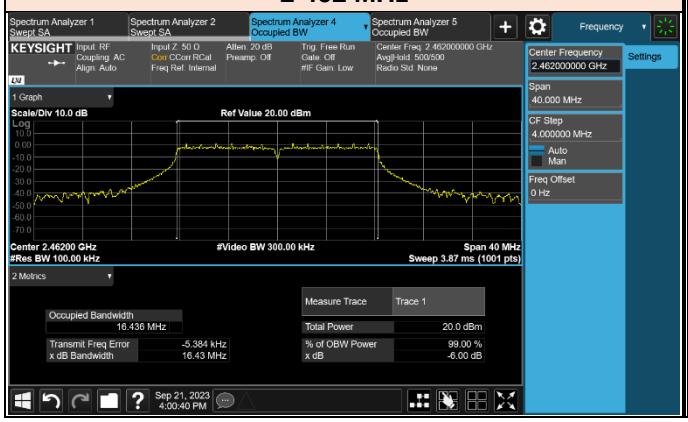
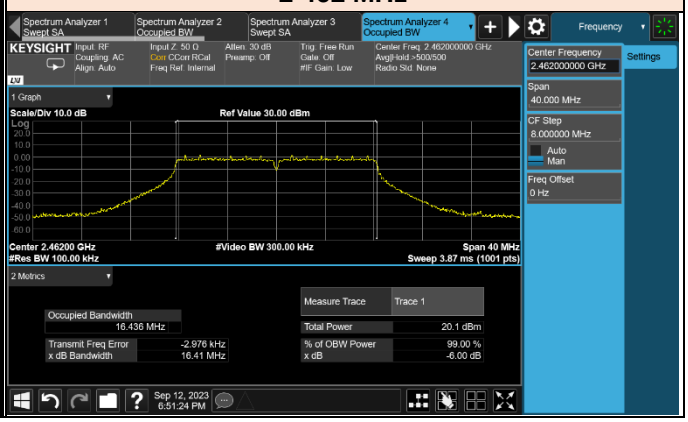
|  |  |

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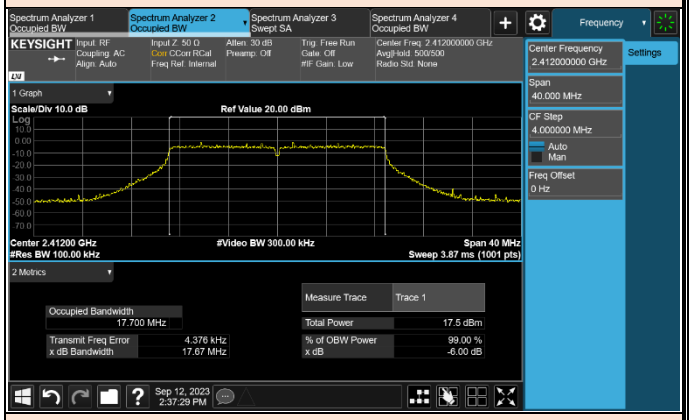
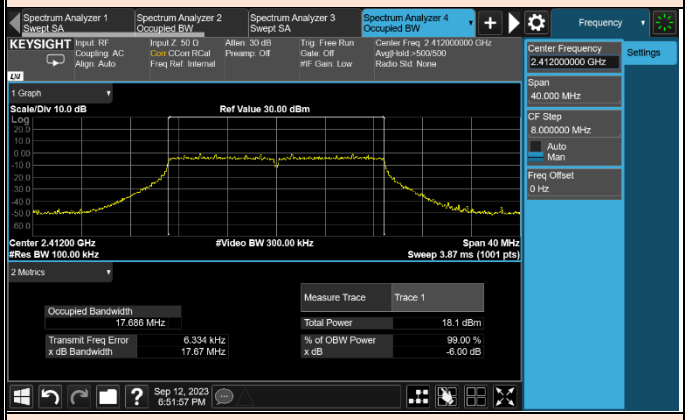
|---|---|
| ANT 1 | ANT 2 |
| 2 412 MHz | 2 412 MHz |
|  |  |
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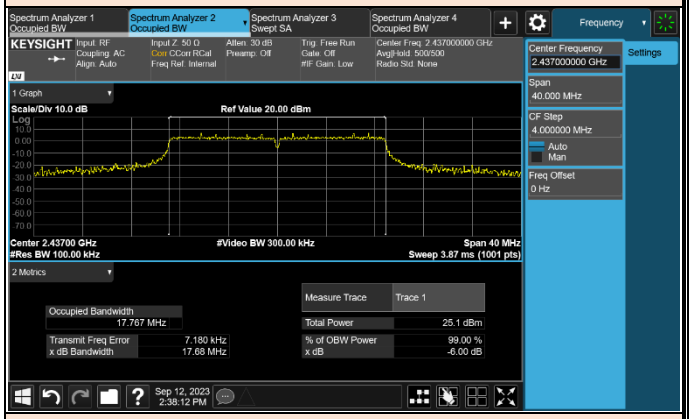
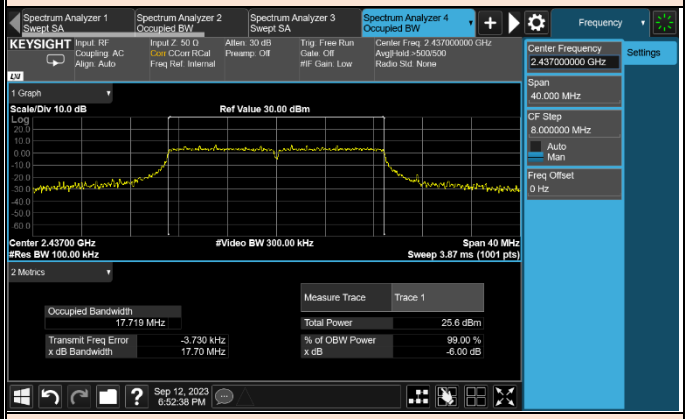
|  |  |
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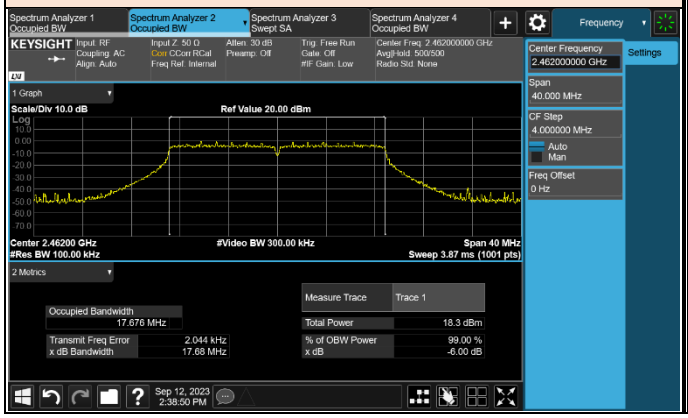
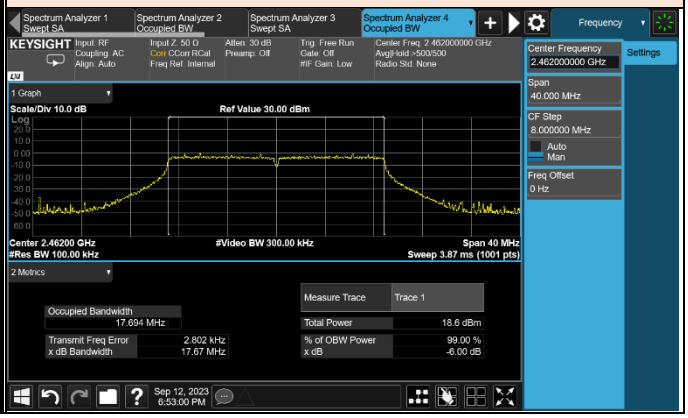
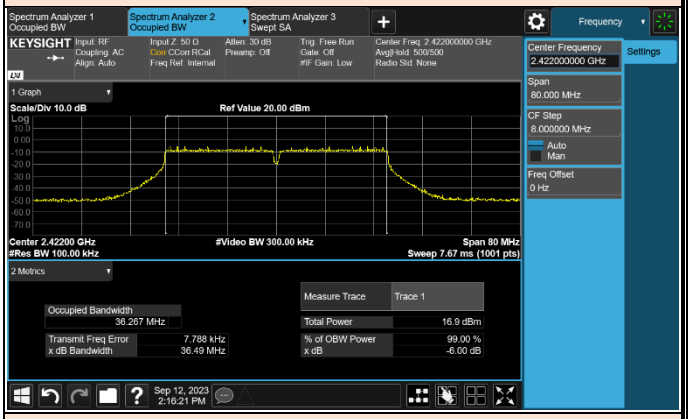
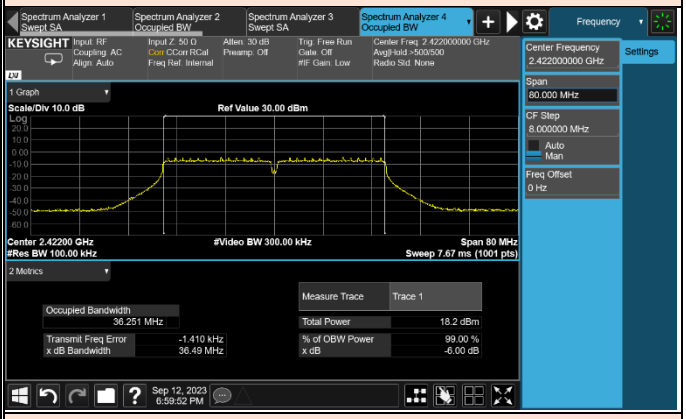
|  |  |

| TM 4 | |
|---|---|
| ANT 1 | ANT 2 |
| 2 422 MHz | 2 422 MHz |
|  |  |
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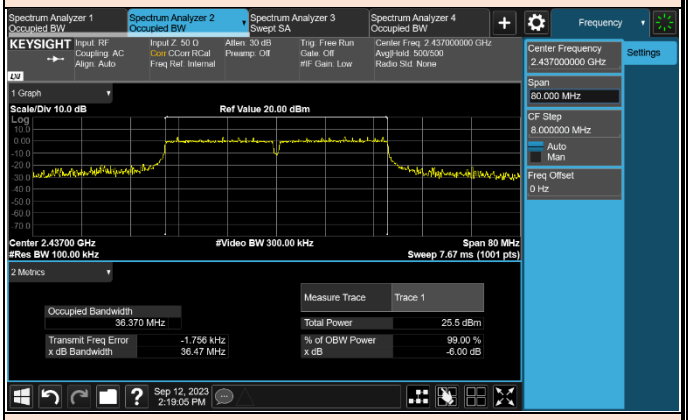
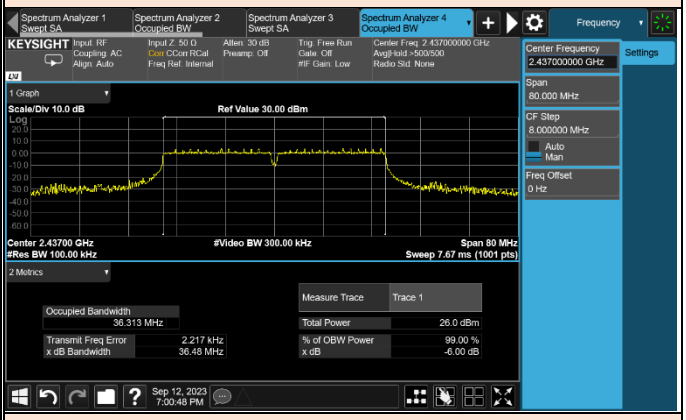
|  |  |
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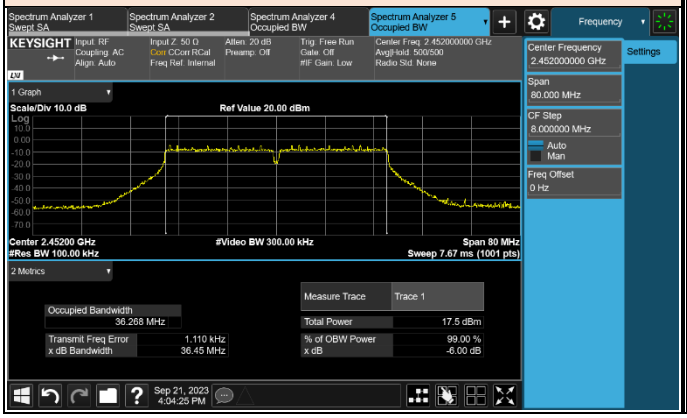
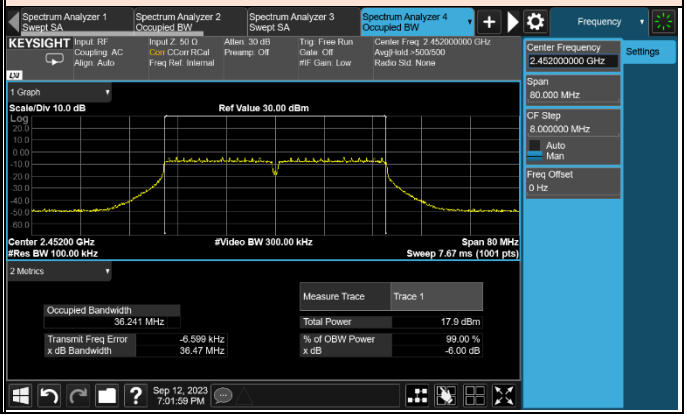
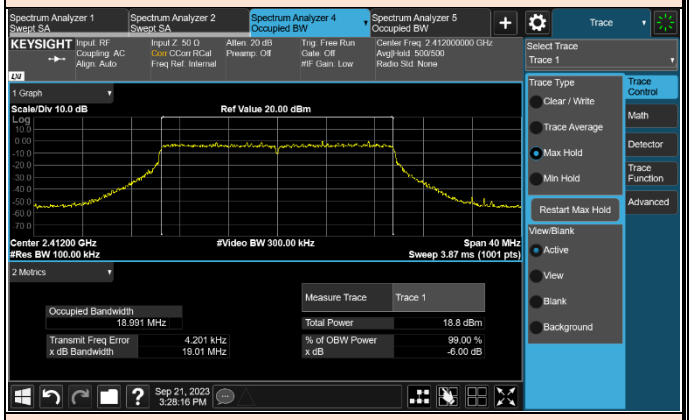
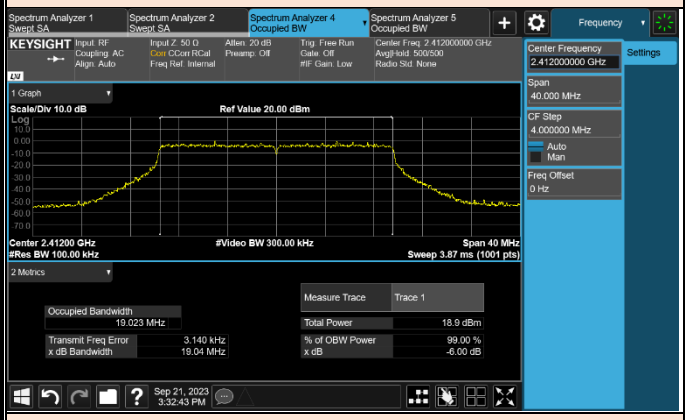
|  |  |

| TM 5 | |
|---|---|
| ANT 1 | ANT 2 |
| 2 412 MHz | 2 412 MHz |
|  |  |
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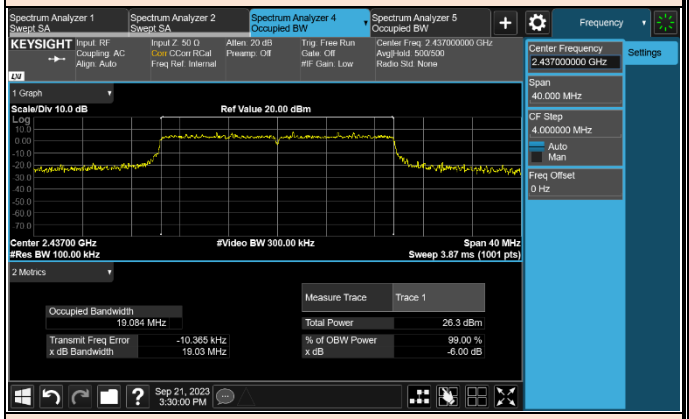
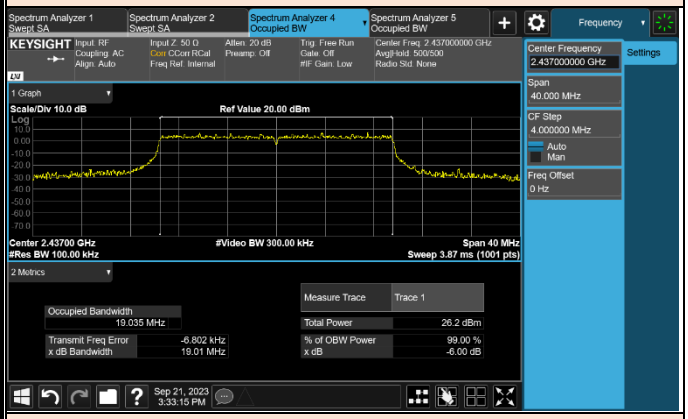
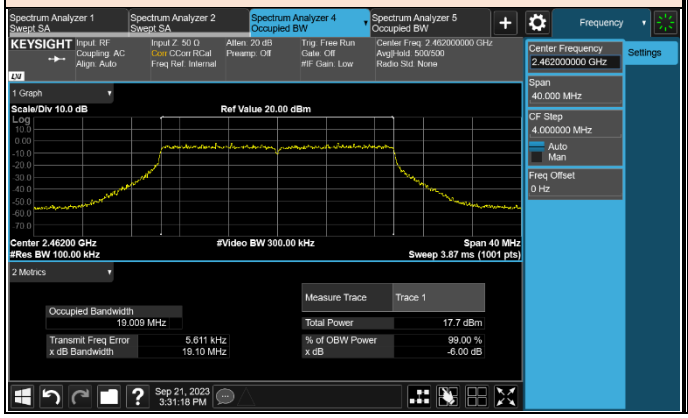
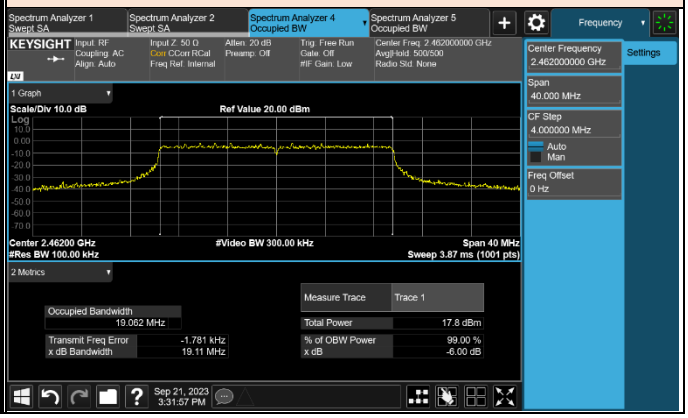
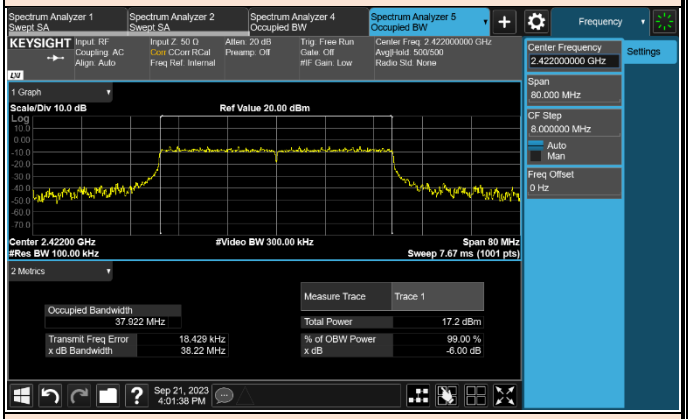
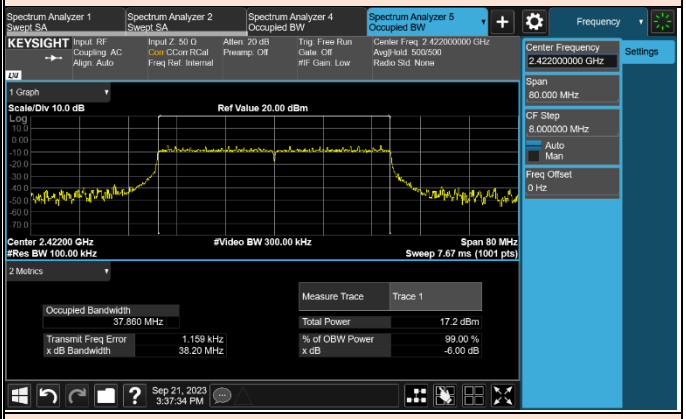
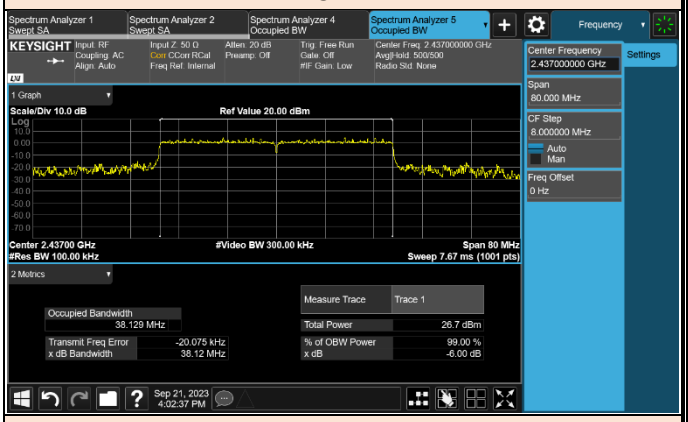
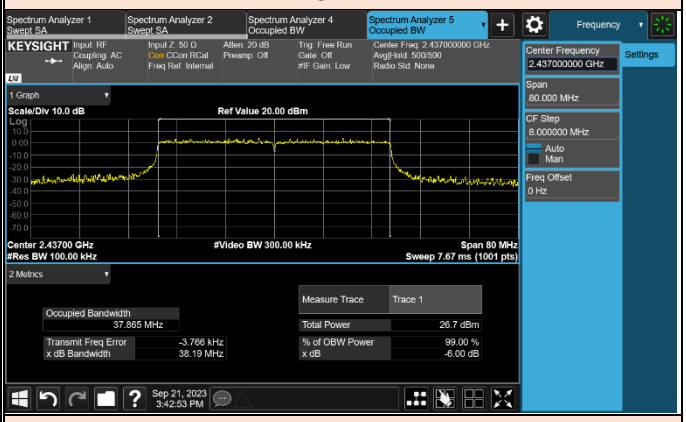
|  |  |
| 2 462 MHz | 2 462 MHz |
|  |  |

| TM 6 | |
|---|---|
| ANT 1 | ANT 2 |
| 2 422 MHz | 2 422 MHz |
|  |  |
| 2 437 MHz | 2 437 MHz |
|  |  |
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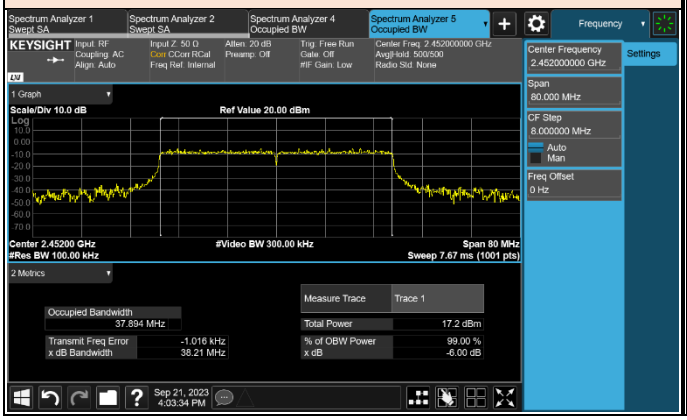
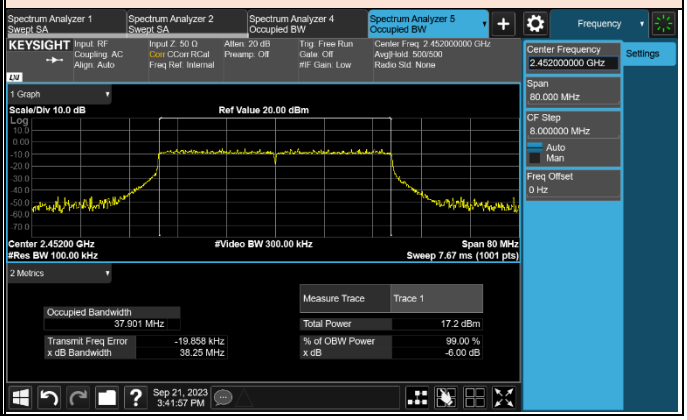
|  |  |

## 3.3 Maximum Peak Output Power

### 3.3.1 Regulation

§15.247(b)(3) : For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

§15.247(b)(4) : 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.

### 3.3.2 Test Procedure

**General**

Section 15.247 permits the maximum conducted (average) output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth (see ANSI C63.10 for measurement guidance).

When using a spectrum analyzer or EMI receiver to perform these measurements, it shall be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW to set a bin-to-bin spacing of ≤ RBW/2 so that narrowband signals are not lost between frequency bins.

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level. The intent is to test at 100 % duty cycle; however a small reduction in duty cycle (to no lower than 98 %) is permitted, if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

If continuous transmission (or at least 98 % duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level, with the transmit duration as long as possible, and the duty cycle as high as possible during which sweep triggering/signal gating techniques may be used to perform the measurement over the transmission duration.

### 3.3.2.1 Maximum peak conducted output power

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

**RBW ≥ DTS bandwidth**

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW ≥ DTS bandwidth.

b) Set VBW ≥ [3 × RBW].

c) Set span ≥ [3 × RBW].

d) Sweep time = auto couple.

e) Detector = peak.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

**PKPM1 Peak power meter method**

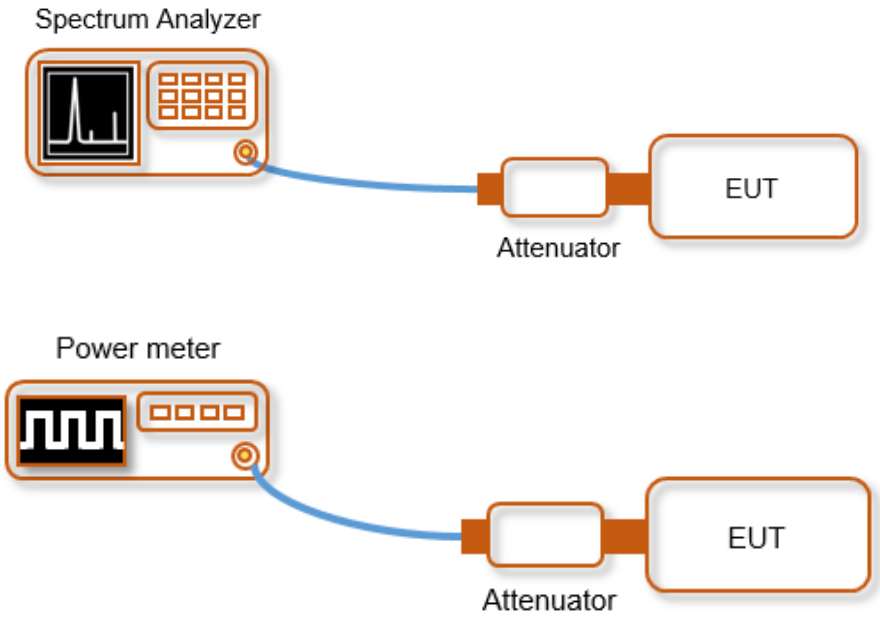
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

**Measurement using a power meter (PM)**

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.

### 3.3.3 Test Setup



### 3.3.4 Test Result

**[Test Result of Peak Power & Average Power]**

**Limit: 1 Watt**

| Test Mode | Tested Frequency | Measured Power [dBm] | | | | | |
|---|---|---|---|---|---|---|---|
| | | ANT 1 | | ANT 2 | | MIMO | |
| | | PK | Average | PK | Average | PK | Average |
| TM 1 | 2 412 | 17.22 | 13.82 | 18.10 | 14.63 | NA | NA- |
| | 2 437 | 24.95 | 22.32 | 25.02 | 22.04 | NA | NA- |
| | 2 462 | 20.21 | 17.55 | 21.44 | 18.15 | NA | NA- |
| TM 2 | 2 412 | 23.86 | 12.78 | 24.24 | 13.82 | NA | NA- |
| | 2 437 | 27.29 | 22.08 | 27.60 | 21.75 | NA | NA- |
| | 2 462 | 23.89 | 13.55 | 24.30 | 13.98 | NA | NA- |
| TM 3 | 2 412 | 21.56 | 11.39 | 22.88 | 12.21 | 25.28 | 14.83 |
| | 2 437 | 26.47 | 19.28 | 26.49 | 18.99 | 29.49 | 22.15 |
| | 2 462 | 21.89 | 11.65 | 22.89 | 12.70 | 25.43 | 15.22 |
| TM 4 | 2 422 | 20.98 | 10.48 | 21.48 | 11.37 | 24.25 | 13.96 |
| | 2 437 | 26.06 | 18.92 | 26.23 | 18.94 | 29.16 | 21.94 |
| | 2 452 | 21.65 | 10.15 | 21.88 | 10.67 | 24.78 | 13.43 |
| TM 5 | 2 412 | 22.08 | 11.54 | 22.81 | 11.96 | 25.47 | 14.77 |
| | 2 437 | 26.31 | 19.14 | 26.77 | 19.15 | **29.56** | 22.16 |
| | 2 462 | 21.97 | 10.53 | 21.40 | 10.86 | 24.70 | 13.71 |
| TM 6 | 2 422 | 20.53 | 9.27 | 21.32 | 9.73 | 23.95 | 12.52 |
| | 2 437 | 26.27 | 19.12 | 26.47 | 18.70 | 29.38 | 21.93 |
| | 2 452 | 19.74 | 9.04 | 21.37 | 10.11 | 23.64 | 12.62 |

**Note: Average power measured by power sensor with gate function.**

## 3.4 Power Spectral Density

### 3.4.1 Regulation

§15.247(e) : For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 3.4.2 Test Procedure

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz.

d) Set the VBW ≥ [3 × RBW].

e) Detector = peak.

f) Sweep time = auto couple.

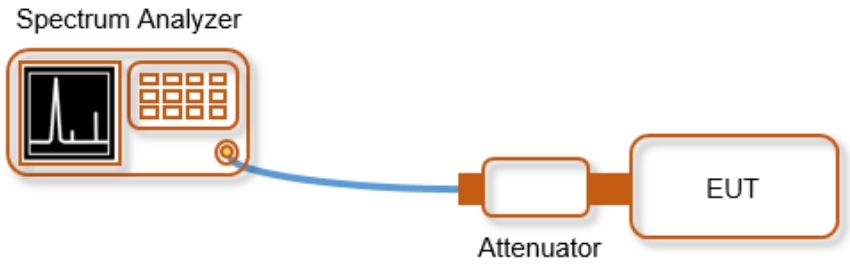
g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

### 3.4.3 Test Setup



### 3.4.4 Test Result

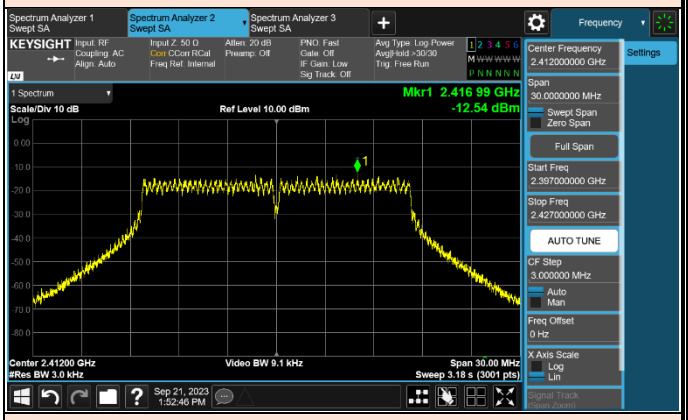
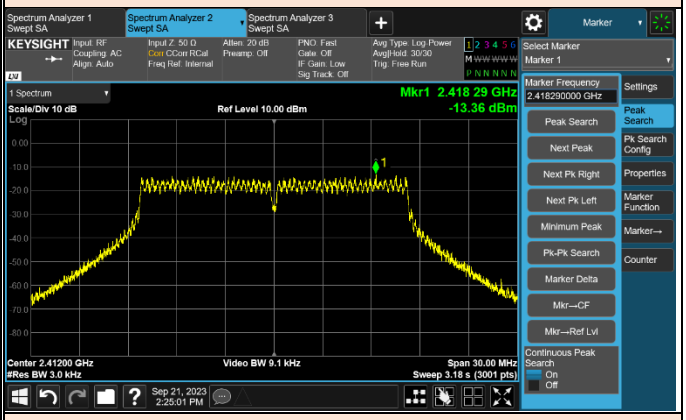
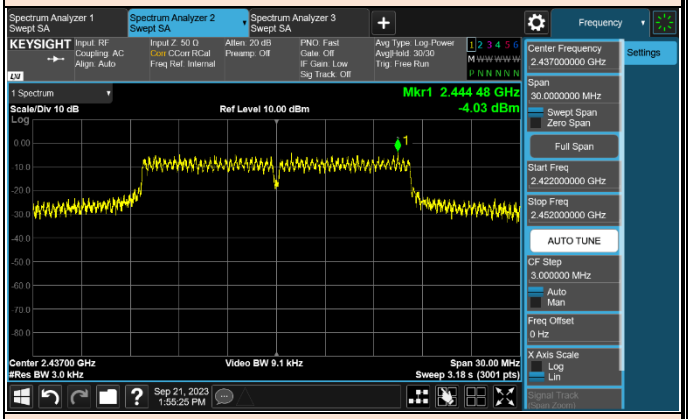
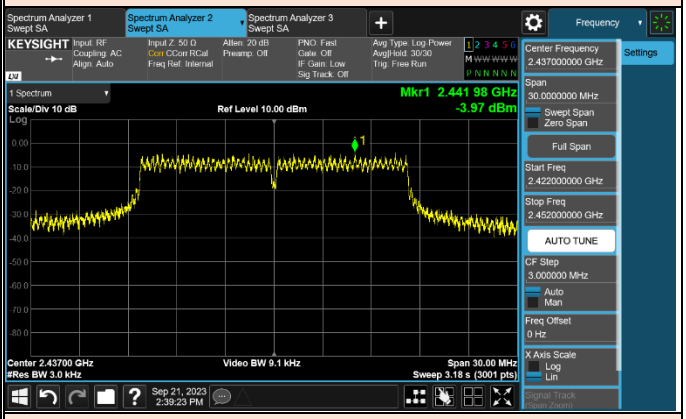
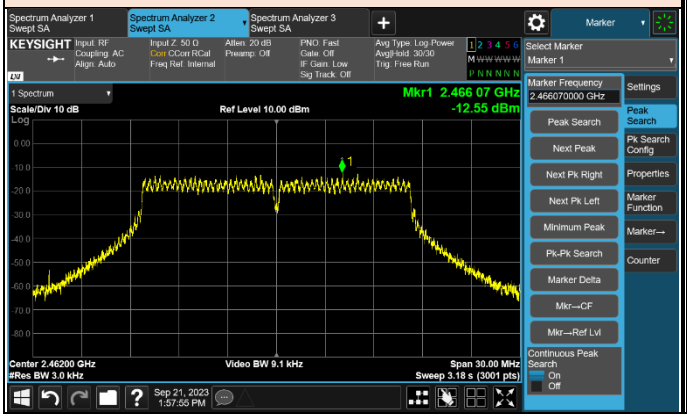
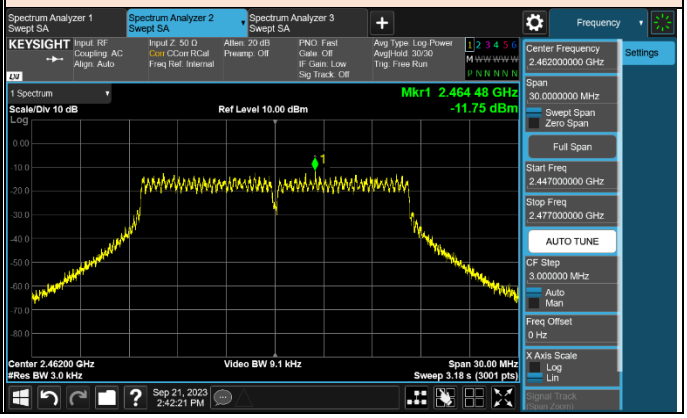
**[Test Data of Power Spectral Density]**

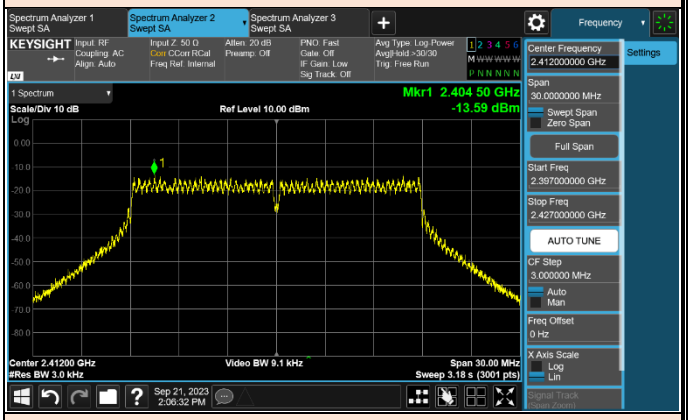
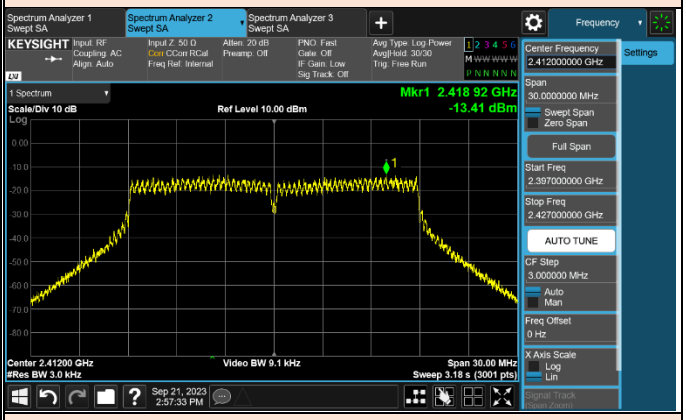
**Limit: not be greater than 8 dBm in any 3 kHz**

| Test Mode | Tested Frequency | Measured Power [dBm/3kHz] | | |
|---|---|---|---|---|
| | | ANT 1 | ANT 2 | MIMO |
| TM 1 | 2 412 | -10.26 | -9.28 | NA |
| | 2 437 | -1.69 | -1.38 | NA |
| | 2 462 | -6.41 | -6.15 | NA |
| TM 2 | 2 412 | -12.54 | -13.36 | NA |
| | 2 437 | -4.03 | -3.97 | NA |
| | 2 462 | -12.55 | -11.75 | NA |
| TM 3 | 2 412 | -13.59 | -13.41 | -10.49 |
| | 2 437 | -5.96 | -5.74 | -2.84 |
| | 2 462 | -13.06 | -12.38 | -9.70 |
| TM 4 | 2 422 | -18.34 | -17.45 | -14.86 |
| | 2 437 | -10.02 | -9.48 | -6.73 |
| | 2 452 | -18.52 | -17.63 | -15.04 |
| TM 5 | 2 412 | -14.37 | -13.52 | -10.91 |
| | 2 437 | -6.76 | -5.96 | -3.33 |
| | 2 462 | -15.11 | -15.18 | -12.13 |
| TM 6 | 2 422 | -19.26 | -18.34 | -15.77 |
| | 2 437 | -10.00 | -9.70 | -6.84 |
| | 2 452 | -19.26 | -18.39 | -15.79 |

## [Test Plot of Power Spectral Density]

| TM 1 | |
|---|---|
| ANT 1 | ANT 2 |
| 2 412 MHz | 2 412 MHz |
|  |  |
| 2 437 MHz | 2 437 MHz |
|  |  |
| 2 462 MHz | 2 462 MHz |
|  |  |

| TM 2 | |
|---|---|
| ANT 1 | ANT 2 |
| 2 412 MHz | 2 412 MHz |
|  |  |
| 2 437 MHz | 2 437 MHz |
|  |  |
| 2 462 MHz | 2 462 MHz |
|  |  |

| TM 3 | |
|---|---|
| ANT 1 | ANT 2 |
| 2 412 MHz | 2 412 MHz |
|  |  |
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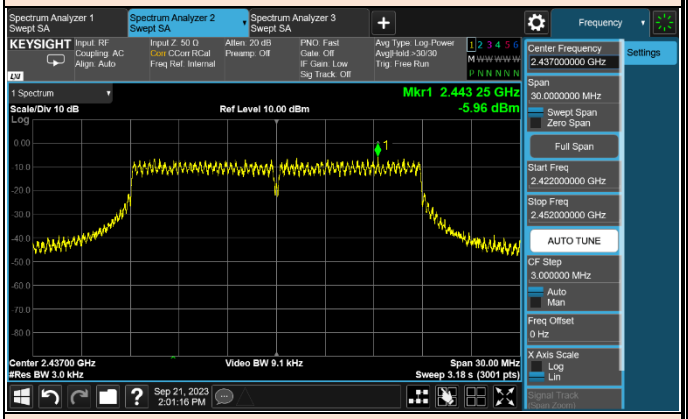
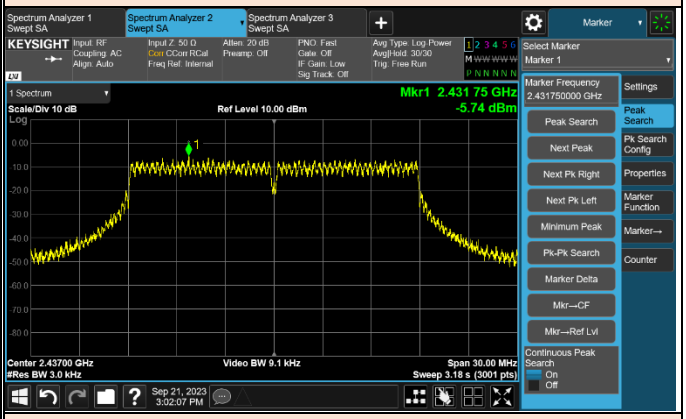
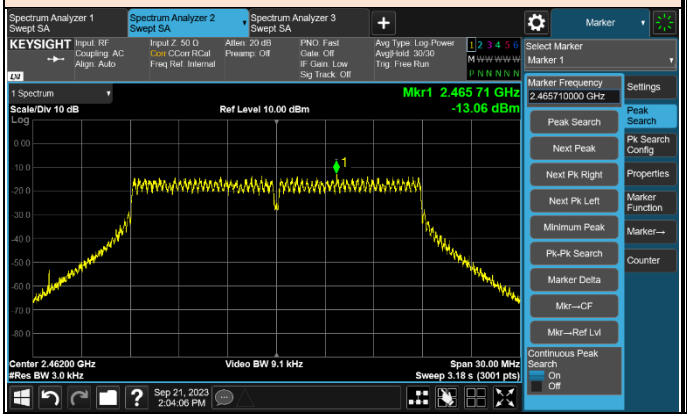
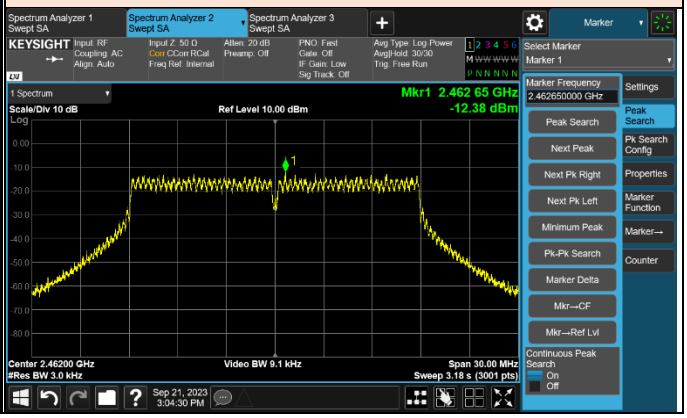
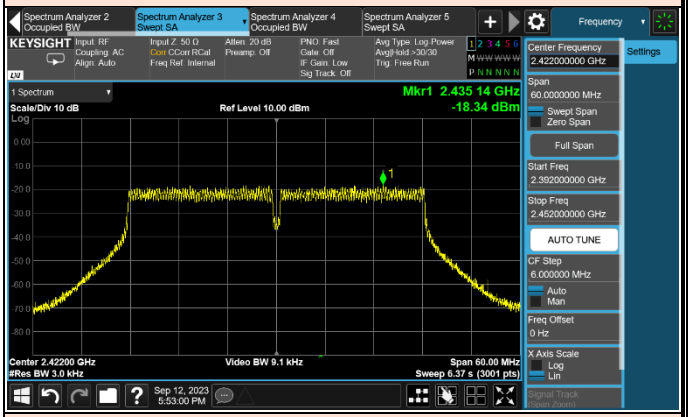
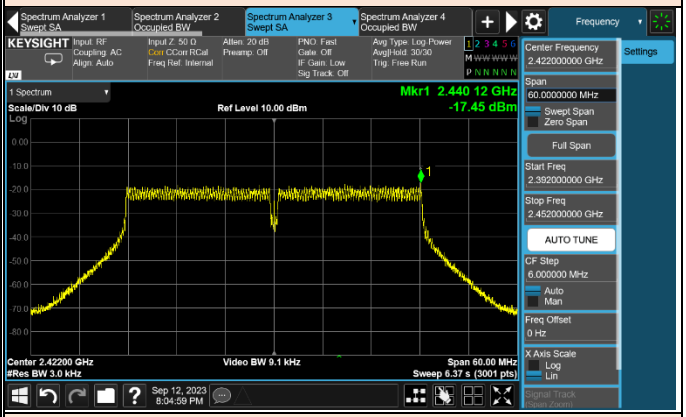
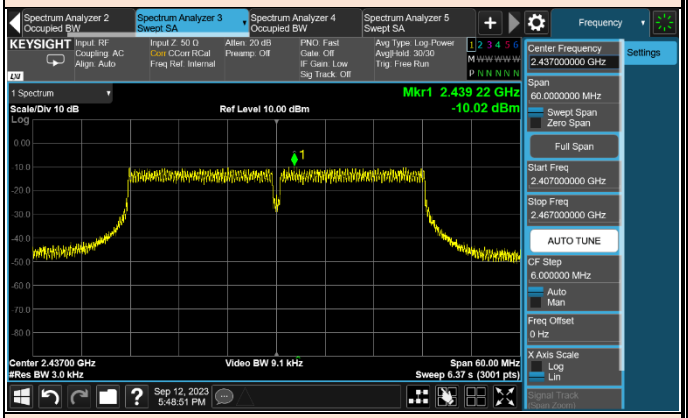
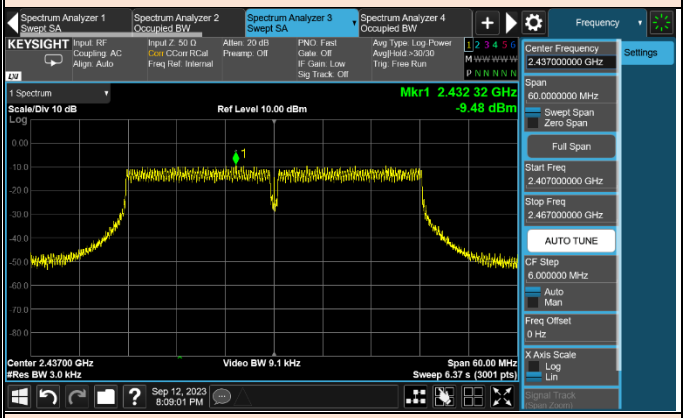
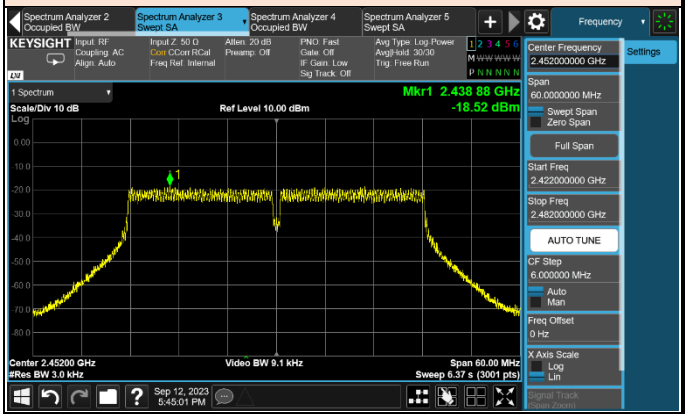
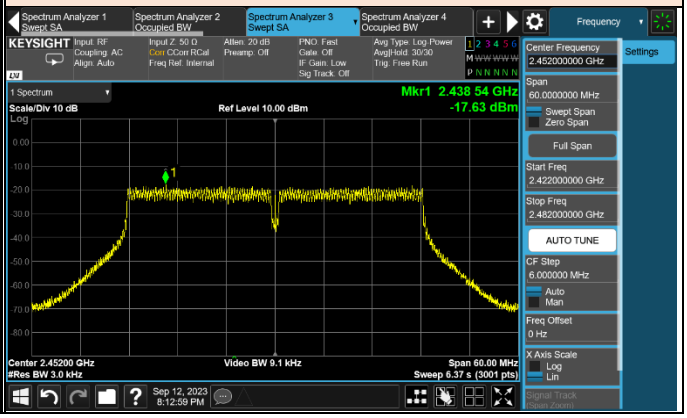
|  |  |
| 2 462 MHz | 2 462 MHz |
|  |  |

| TM 4 | |
|---|---|
| ANT 1 | ANT 2 |
| 2 422 MHz | 2 422 MHz |
|  |  |
| 2 437 MHz | 2 437 MHz |
|  |  |
| 2 452 MHz | 2 452 MHz |
|  |  |