



# TEST REPORT

FCC ID: 2ADYY-T16MAPRO

Product: Laptop Computer

Model No.: T16MA Pro

Trade Mark: TECNO

Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

Issued Date: 16 April 2024

Issued for:

TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI  
STREET FOTAN NT HONGKONG

Issued By:

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Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

Certificate #5768.01

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## 1. Test Certification

**Product:** Laptop Computer

**Model No.:** T16MA Pro

**Trade Mark:** TECNO

**Applicant:** TECNO MOBILE LIMITED

**Address:** FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25  
SHAN MEI STREET FOTAN NT HONGKONG

**Manufacturer:** TECNO MOBILE LIMITED

**Address:** FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25  
SHAN MEI STREET FOTAN NT HONGKONG

**Date of Test:** 02 April 2024 to 16 April 2024

**Applicable Standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Wang Xiang

(Wang Xiang)

Checked By:

Chen Xu

(Chen Xu)

Approved By:

Liu Fuxin

(Liu Fuxin)

Date:

16 April 2024



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## 2. Test Result Summary

| Requirement                      | CFR 47 Section                      | Result |
|----------------------------------|-------------------------------------|--------|
| Antenna requirement              | §15.203/§15.247 (c)                 | PASS   |
| AC Power Line Conducted Emission | §15.207                             | PASS   |
| Conducted Peak Output Power      | §15.247 (b)(3)<br>§2.1046           | PASS   |
| 6dB Emission Bandwidth           | §15.247 (a)(2)<br>§2.1049           | PASS   |
| Power Spectral Density           | §15.247 (e)                         | PASS   |
| Band Edge                        | §15.247(d)<br>§2.1051, §2.1057      | PASS   |
| Spurious Emission                | §15.205/§15.209<br>§2.1053, §2.1057 | PASS   |

### Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.





### 3. EUT Description

|                             |                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>             | Laptop Computer                                                                                                                                                                                                                                                                                                                   |
| <b>Model No.:</b>           | T16MA Pro                                                                                                                                                                                                                                                                                                                         |
| <b>Trade Mark:</b>          | TECNO                                                                                                                                                                                                                                                                                                                             |
| <b>Operation Frequency:</b> | 2412MHz~2462MHz (802.11b/g/n/ax(HT20))<br>2422MHz~2452MHz (802.11n/ax(HT40))                                                                                                                                                                                                                                                      |
| <b>Channel Separation:</b>  | 5MHz                                                                                                                                                                                                                                                                                                                              |
| <b>Modulation type:</b>     | DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b<br>OFDM/OFDMA(BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM) for IEEE 802.11g/n/ax                                                                                                                                                                                                               |
| <b>Antenna Type:</b>        | Integral Antenna                                                                                                                                                                                                                                                                                                                  |
| <b>Antenna Gain</b>         | MAIN:2.40dBi ,AUX:2.70 dBi                                                                                                                                                                                                                                                                                                        |
| <b>Operating Voltage:</b>   | Adapter1: A879-200500C-US1<br>Input: 100-240V~50/60Hz 2.5A<br>Output:PD:5V---3A /9V---3A /12V---3A/15V---3.0A /20V---5A<br>PPS:3.3-11V---5A 55W Max<br>3.3-21V---5A 100W Max<br>Rechargeable Li-ion Battery: N160<br>Nominal Voltage: 11.61V<br>Rated Capacity: 8612mAh<br>Rated Energy:99.99Wh<br>Limited Charge Voltage: 13.35V |
| <b>Remark:</b>              | N/A.                                                                                                                                                                                                                                                                                                                              |

#### Configuration differences

| Configuration/<br>Processor                                                                                                                           | Camera  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| T16MA Pro (i5)                                                                                                                                        | KANC792 |
| T16MA Pro (i7)                                                                                                                                        | CK2B2B  |
| Note: The prototypes of both configurations have been tested, and the T16MA Pro (i7) has the worst test result, which is the main test model reported |         |



### Operation Frequency each of channel For 802.11b/g/n/ax(HT20)

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1       | 2412MHz   | 4       | 2427MHz   | 7       | 2442MHz   | 10      | 2457MHz   |
| 2       | 2417MHz   | 5       | 2432MHz   | 8       | 2447MHz   | 11      | 2462MHz   |
| 3       | 2422MHz   | 6       | 2437MHz   | 9       | 2452MHz   |         |           |

### Operation Frequency each of channel For 802.11n/ax (HT40)

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| --      | --        | 4       | 2427MHz   | 7       | 2442MHz   | --      | --        |
| --      | --        | 5       | 2432MHz   | 8       | 2447MHz   | --      | --        |
| 3       | 2422MHz   | 6       | 2437MHz   | 9       | 2452MHz   |         |           |

#### Note:

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:

#### 802.11b/g/n/ax (HT20)

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2412MHz   |
| The middle channel  | 2437MHz   |
| The Highest channel | 2462MHz   |

#### 802.11n/ax (HT40)

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2422MHz   |
| The middle channel  | 2437MHz   |
| The Highest channel | 2452MHz   |



## 4. Genera Information

### 4.1. Test environment and mode

#### Operating Environment:

|                       |           |
|-----------------------|-----------|
| Temperature:          | 25.0 °C   |
| Humidity:             | 56 % RH   |
| Atmospheric Pressure: | 1010 mbar |

#### Test Mode:

|                   |                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------|
| Engineering mode: | Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) |
|-------------------|--------------------------------------------------------------------------------------------------------------|

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

**Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.**

| Mode            |
|-----------------|
| 802.11b         |
| 802.11g         |
| 802.11n/ax(H20) |
| 802.11n/ax(H40) |

#### Final Test Mode:

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| Operation mode: | Keep the EUT in continuous transmitting with modulation |
|-----------------|---------------------------------------------------------|

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.2. According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.



## 4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Equipment | Model No.        | Serial No. | FCC ID | Trade Name |
|-----------|------------------|------------|--------|------------|
| Adapter   | A879-200500C-US1 |            | /      | TECNO      |

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



## 5. Facilities and Accreditations

### 5.1. Facilities

All measurement facilities used to collect the measurement data are located at **Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group(Shenzhen) CO., LTD**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.2. ACCREDITATIONS

#### CNAS - Registration Number: L3732

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

#### FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

#### A2LA - Certificate Number: 5768.01

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number: 5768.01





### 5.3.Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| No. | Item                           | MU                        |
|-----|--------------------------------|---------------------------|
| 1   | Conducted Emission Test        | $\pm 3.2\text{dB}$        |
| 2   | RF power, conducted            | $\pm 0.16\text{dB}$       |
| 3   | Spurious emissions, conducted  | $\pm 0.21\text{dB}$       |
| 4   | All emissions, radiated(<1GHz) | $\pm 4.7\text{dB}$        |
| 5   | All emissions, radiated(>1GHz) | $\pm 4.7\text{dB}$        |
| 6   | Temperature                    | $\pm 0.5^{\circ}\text{C}$ |
| 7   | Humidity                       | $\pm 2.0\%$               |



## 5.4.MEASUREMENT INSTRUMENTS

| NAME OF EQUIPMENT                    | MANUFACTURER           | MODEL        | SERIAL NUMBER | Calibration Date | Calibration Due. |
|--------------------------------------|------------------------|--------------|---------------|------------------|------------------|
| Test software                        | --                     | EZ-EMC       | CON-03A       | -                | -                |
| Test software                        | --                     | MTS8310      | -             | -                | -                |
| EMI Test Receiver                    | R&S                    | ESCI         | 100005        | 11/05/2023       | 11/04/2024       |
| LISN                                 | AFJ                    | LS16         | 16010222119   | 11/05/2023       | 11/04/2024       |
| LISN(EUT)                            | Mestec                 | AN3016       | 04/10040      | 11/05/2023       | 11/04/2024       |
| Universal Radio Communication Tester | R&S                    | CMU 200      | 1100.0008.02  | 11/05/2023       | 11/04/2024       |
| Coaxial cable                        | Megalon                | LMR400       | N/A           | 11/05/2023       | 11/04/2024       |
| GPIO cable                           | Megalon                | GPIO         | N/A           | 11/05/2023       | 11/04/2024       |
| Spectrum Analyzer                    | R&S                    | FSU          | 100114        | 11/05/2023       | 11/04/2024       |
| Pre Amplifier                        | H.P.                   | HP8447E      | 2945A02715    | 11/05/2023       | 11/04/2024       |
| Pre-Amplifier                        | CDSI                   | PAP-1G18-38  | --            | 11/05/2023       | 11/04/2024       |
| Bi-log Antenna                       | SCHWARZBECK            | VULB9168     | 01488         | 11/05/2023       | 11/04/2024       |
| 9*6*6 Anechoic                       | --                     | --           | --            | 11/05/2023       | 11/04/2024       |
| Horn Antenna                         | COMPLIANCE ENGINEERING | CE18000      | --            | 11/05/2023       | 11/04/2024       |
| Horn Antenna                         | SCHWARZBECK            | BBHA9120D    | 9120D-631     | 11/05/2023       | 11/04/2024       |
| Cable                                | TIME MICROWAVE         | LMR-400      | N-TYPE04      | 11/05/2023       | 11/04/2024       |
| System-Controller                    | CCS                    | N/A          | N/A           | N.C.R            | N.C.R            |
| Turn Table                           | CCS                    | N/A          | N/A           | N.C.R            | N.C.R            |
| Antenna Tower                        | CCS                    | N/A          | N/A           | N.C.R            | N.C.R            |
| RF cable                             | Murata                 | MXHQ87WA3000 | -             | 11/05/2023       | 11/04/2024       |
| Loop Antenna                         | EMCO                   | 6502         | 00042960      | 11/05/2023       | 11/04/2024       |
| Horn Antenna                         | SCHWARZBECK            | BBHA 9170    | 1123          | 11/05/2023       | 11/04/2024       |
| Power meter                          | Anritsu                | ML2487A      | 6K00003613    | 11/05/2023       | 11/04/2024       |
| Power sensor                         | Anritsu                | MX248XD      | --            | 11/05/2023       | 11/04/2024       |
| Spectrum Analyzer                    | Keysight               | N9010B       | MY60241089    | 11/05/2023       | 11/04/2024       |



## 6. Test Results and Measurement Data

### 6.1. Antenna requirement

#### Standard requirement:

FCC Part15 C Section 15.203 /247(c)

#### 15.203 requirement:

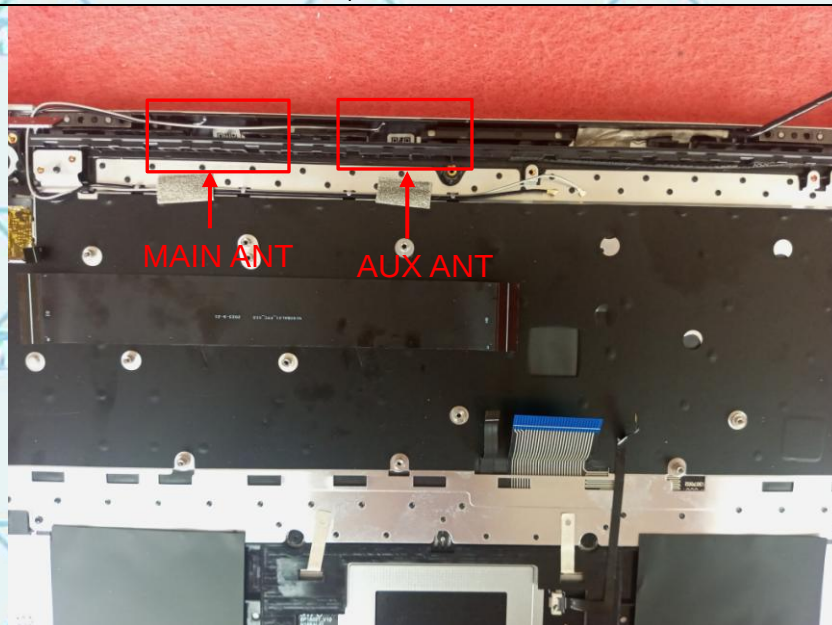
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### E.U.T Antenna:

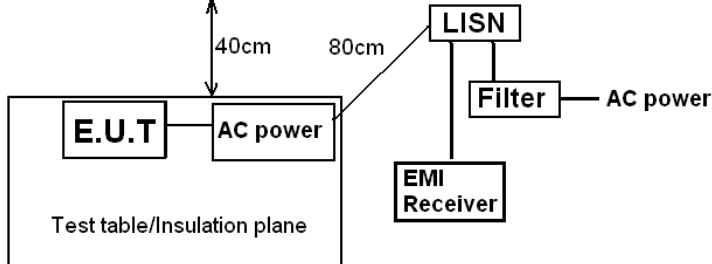
The Wi-Fi antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is "MAIN:2.40dBi ,AUX:2.70 dBi"





## 6.2. Conducted Emission

### 6.2.1. Test Specification

| Test Requirement:     | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method:          | ANSI C63.10:2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Frequency Range:      | 150 kHz to 30 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Receiver setup:       | RBW=9 kHz, VBW=30 kHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Limits:               | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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 |
| 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                    |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Setup:           | <div><p>Reference Plane</p><p>E.U.T</p><p>AC power</p><p>LISN</p><p>Filter</p><p>EMI Receiver</p><p>Test table/Insulation plane</p><p>40cm</p><p>80cm</p><p>AC power</p></div> <p>Remark<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p>                                                                                                                                                                                                                                                                                                                                                   |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Mode:            | Charging + transmitting with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li><li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li><li>3. Both sides of A.C. line are checked for maximum conducted interference. 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: 2014 on conducted measurement.</li></ol> |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Result:          | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |



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## 6.2.2. Test data(worst case)

Please refer to following diagram for individual

The worst mode is MIMO 11ax40

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



| No. | Mk. | Freq.   | Reading | Correct | Measure- | Limit | Over   |          |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|
|     |     | MHz     | Level   | Factor  | ment     |       |        | Detector |
|     |     |         | dBuV    | dB      | dBuV     | dBuV  | dB     |          |
| 1   |     | 0.1500  | 36.15   | 10.41   | 46.56    | 65.99 | -19.43 | QP       |
| 2   |     | 0.1500  | 14.66   | 10.41   | 25.07    | 55.99 | -30.92 | AVG      |
| 3   |     | 0.4860  | 29.73   | 10.47   | 40.20    | 56.24 | -16.04 | QP       |
| 4   | *   | 0.4860  | 26.83   | 10.47   | 37.30    | 46.24 | -8.94  | AVG      |
| 5   |     | 0.7820  | 29.18   | 10.49   | 39.67    | 56.00 | -16.33 | QP       |
| 6   |     | 1.2059  | 14.49   | 10.54   | 25.03    | 46.00 | -20.97 | AVG      |
| 7   |     | 1.3940  | 10.59   | 10.57   | 21.16    | 46.00 | -24.84 | AVG      |
| 8   |     | 1.5300  | 15.50   | 10.59   | 26.09    | 56.00 | -29.91 | QP       |
| 9   |     | 3.8340  | 13.21   | 10.68   | 23.89    | 56.00 | -32.11 | QP       |
| 10  |     | 10.2260 | 0.83    | 10.80   | 11.63    | 50.00 | -38.37 | AVG      |
| 11  |     | 15.7900 | 15.43   | 11.06   | 26.49    | 60.00 | -33.51 | QP       |
| 12  |     | 15.8780 | 8.06    | 11.06   | 19.12    | 50.00 | -30.88 | AVG      |

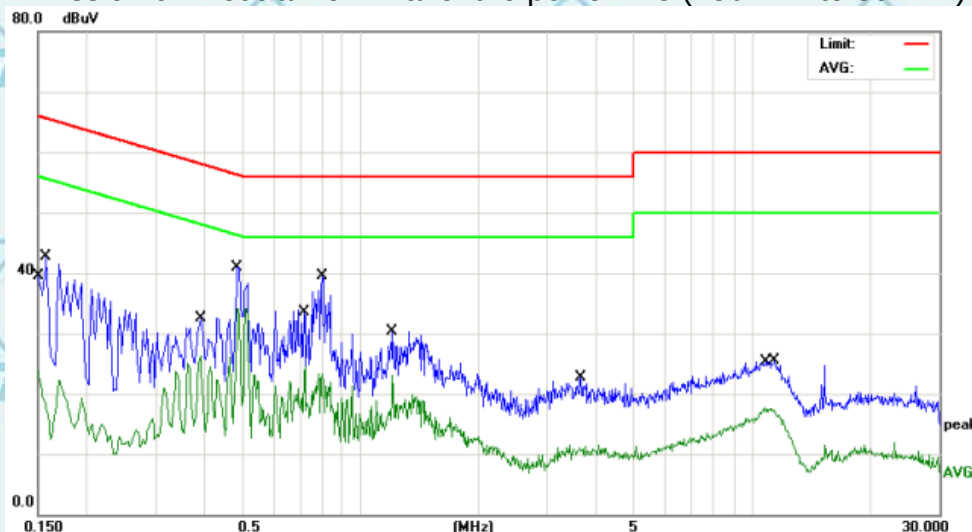


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# Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz     | dBμV          | dB             | dBμV        | dBμV  | dB     | Detector |
| 1   |     | 0.1500  | 13.55         | 10.41          | 23.96       | 55.99 | -32.03 | AVG      |
| 2   |     | 0.1580  | 32.36         | 10.41          | 42.77       | 65.56 | -22.79 | QP       |
| 3   |     | 0.3899  | 15.76         | 10.45          | 26.21       | 48.06 | -21.85 | AVG      |
| 4   |     | 0.4860  | 30.48         | 10.47          | 40.95       | 56.24 | -15.29 | QP       |
| 5   | *   | 0.4860  | 23.72         | 10.47          | 34.19       | 46.24 | -12.05 | AVG      |
| 6   |     | 0.7220  | 14.07         | 10.49          | 24.56       | 46.00 | -21.44 | AVG      |
| 7   |     | 0.7980  | 29.01         | 10.49          | 39.50       | 56.00 | -16.50 | QP       |
| 8   |     | 1.2059  | 19.78         | 10.54          | 30.32       | 56.00 | -25.68 | QP       |
| 9   |     | 1.2059  | 12.62         | 10.54          | 23.16       | 46.00 | -22.84 | AVG      |
| 10  |     | 3.6500  | 11.93         | 10.68          | 22.61       | 56.00 | -33.39 | QP       |
| 11  |     | 10.7340 | 6.80          | 10.83          | 17.63       | 50.00 | -32.37 | AVG      |
| 12  |     | 11.4180 | 14.59         | 10.87          | 25.46       | 60.00 | -34.54 | QP       |

## Note1:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak AVG =average

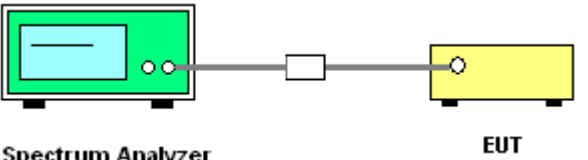
\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.





## 6.2.3. Maximum Conducted (Average) Output Power

### 6.2.4. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Test Method:</b>      | KDB 558074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Limit:</b>            | 30dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                             |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04.</li> <li>2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Measure the conducted output power and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



- (i) If all antennas have the same gain,  $G_{ANT}$ :  
Directional gain =  $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$  dBi, where  $N_{SS}$  = the number of independent spatial streams of data and  $G_{ANT}$  is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for  $G_{ANT}$ .)

- (ii) If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following two formulas.

- Directional gain =  $G_{ANT\ MAX} + 10 \log(N_{ANT}/N_{SS})$  dBi, where  $N_{SS}$  = the number of independent spatial streams of data and  $G_{ANT\ MAX}$  is the gain of the antenna having the highest gain (in dBi).

Or,

$$\bullet \text{ Directional Gain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

For power measurements on IEEE 802.11 devices, 1,2

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less, for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

Note:  $N_{ANT}=2$ , satisfy the condition  $N_{ANT} \leq 4$ , so Array gain=0dB, Directional gain= $G_{ANT}$ +Array gain=2.70dBi+0dB=2.70dBi, not more than 6, so the power limit is unchanged.





## 6.2.5. Test Data

### MAIN Ant1

| Mode | Frequency (MHz) | Total Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|-------------------|-------------|---------|
| b    | 2412            | 19.49             | 30          | Pass    |
| b    | 2437            | 17.61             | 30          | Pass    |
| b    | 2462            | 18.66             | 30          | Pass    |
| g    | 2412            | 18.66             | 30          | Pass    |
| g    | 2437            | 16.95             | 30          | Pass    |
| g    | 2462            | 17.72             | 30          | Pass    |
| n20  | 2412            | 18.95             | 30          | Pass    |
| n20  | 2437            | 17.26             | 30          | Pass    |
| n20  | 2462            | 18.04             | 30          | Pass    |
| n40  | 2422            | 17.96             | 30          | Pass    |
| n40  | 2437            | 17.27             | 30          | Pass    |
| n40  | 2452            | 17.76             | 30          | Pass    |
| ax20 | 2412            | 19.49             | 30          | Pass    |
| ax20 | 2437            | 17.86             | 30          | Pass    |
| ax20 | 2462            | 18.73             | 30          | Pass    |
| ax40 | 2422            | 18.86             | 30          | Pass    |
| ax40 | 2437            | 18.33             | 30          | Pass    |
| ax40 | 2452            | 18.67             | 30          | Pass    |

### AUX Ant2

| Mode | Frequency (MHz) | Total Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|-------------------|-------------|---------|
| b    | 2412            | 18.93             | 30          | Pass    |
| b    | 2437            | 16.82             | 30          | Pass    |
| b    | 2462            | 17.81             | 30          | Pass    |
| g    | 2412            | 17.96             | 30          | Pass    |
| g    | 2437            | 16.38             | 30          | Pass    |
| g    | 2462            | 17.14             | 30          | Pass    |
| n20  | 2412            | 18.38             | 30          | Pass    |
| n20  | 2437            | 16.76             | 30          | Pass    |
| n20  | 2462            | 17.58             | 30          | Pass    |
| n40  | 2422            | 17.72             | 30          | Pass    |
| n40  | 2437            | 17.02             | 30          | Pass    |
| n40  | 2452            | 17.46             | 30          | Pass    |
| ax20 | 2412            | 18.91             | 30          | Pass    |
| ax20 | 2437            | 17.51             | 30          | Pass    |
| ax20 | 2462            | 18.1              | 30          | Pass    |
| ax40 | 2422            | 18.46             | 30          | Pass    |
| ax40 | 2437            | 17.86             | 30          | Pass    |
| ax40 | 2452            | 18.37             | 30          | Pass    |



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**MIMO Mode**

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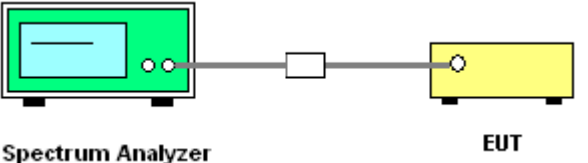
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| Mode | Frequency (MHz) | Total Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|-------------------|-------------|---------|
| n20  | 2412            | 21.69             | 30          | Pass    |
| n20  | 2437            | 20.03             | 30          | Pass    |
| n20  | 2462            | 20.83             | 30          | Pass    |
| n40  | 2422            | 20.85             | 30          | Pass    |
| n40  | 2437            | 20.16             | 30          | Pass    |
| n40  | 2452            | 20.62             | 30          | Pass    |
| ax20 | 2412            | 22.22             | 30          | Pass    |
| ax20 | 2437            | 20.70             | 30          | Pass    |
| ax20 | 2462            | 21.44             | 30          | Pass    |
| ax40 | 2422            | 21.67             | 30          | Pass    |
| ax40 | 2437            | 21.11             | 30          | Pass    |
| ax40 | 2452            | 21.53             | 30          | Pass    |



## 6.3. Emission Bandwidth

### 6.3.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test Method:</b>      | KDB 558074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Limit:</b>            | >500kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>4. Measure and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



### 6.3.2. Test data

| Mode | Frequency (MHz) | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|------|-----------------|-----------------------|-----------------------------|---------|
| b    | 2412            | 7.08                  | 0.5                         | Pass    |
| b    | 2437            | 8.04                  | 0.5                         | Pass    |
| b    | 2462            | 7.60                  | 0.5                         | Pass    |
| g    | 2412            | 15.91                 | 0.5                         | Pass    |
| g    | 2437            | 15.28                 | 0.5                         | Pass    |
| g    | 2462            | 16.00                 | 0.5                         | Pass    |
| n20  | 2412            | 17.02                 | 0.5                         | Pass    |
| n20  | 2437            | 15.01                 | 0.5                         | Pass    |
| n20  | 2462            | 15.04                 | 0.5                         | Pass    |
| n40  | 2422            | 35.08                 | 0.5                         | Pass    |
| n40  | 2437            | 36.05                 | 0.5                         | Pass    |
| n40  | 2452            | 33.71                 | 0.5                         | Pass    |
| ax20 | 2412            | 17.58                 | 0.5                         | Pass    |
| ax20 | 2437            | 18.17                 | 0.5                         | Pass    |
| ax20 | 2462            | 17.75                 | 0.5                         | Pass    |
| ax40 | 2422            | 34.40                 | 0.5                         | Pass    |
| ax40 | 2437            | 37.58                 | 0.5                         | Pass    |
| ax40 | 2452            | 36.40                 | 0.5                         | Pass    |



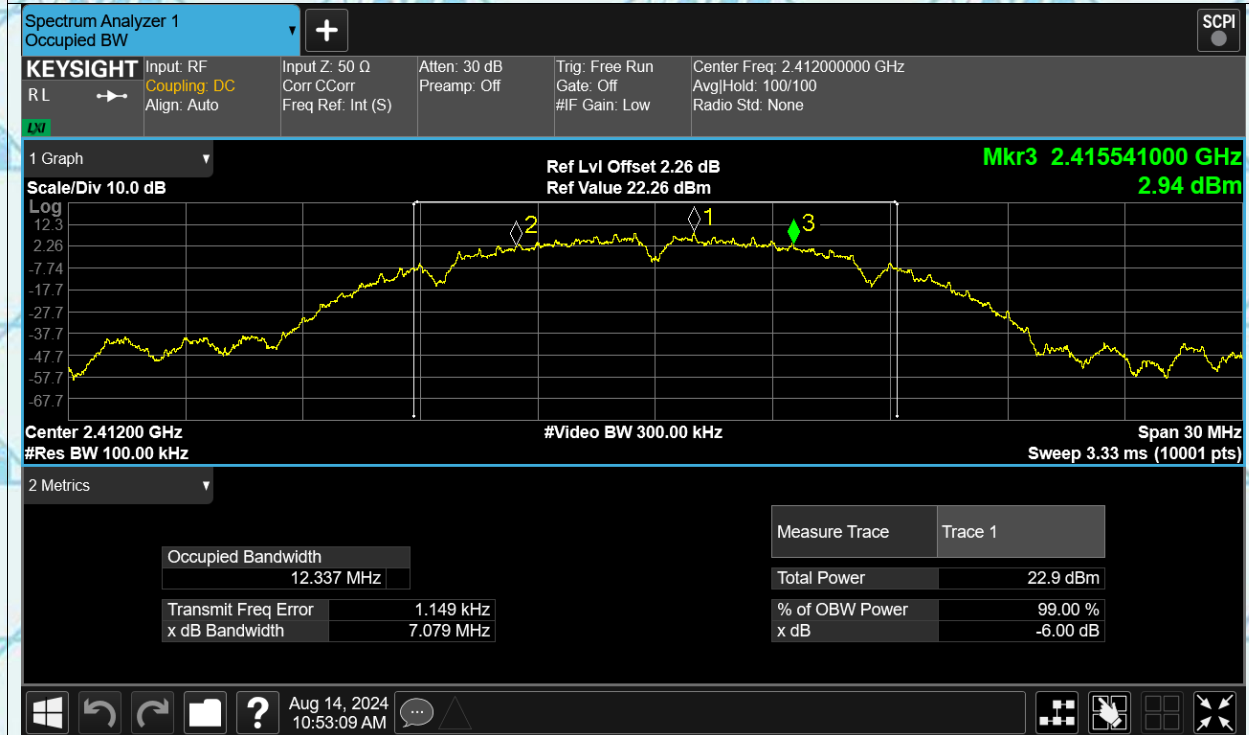
Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

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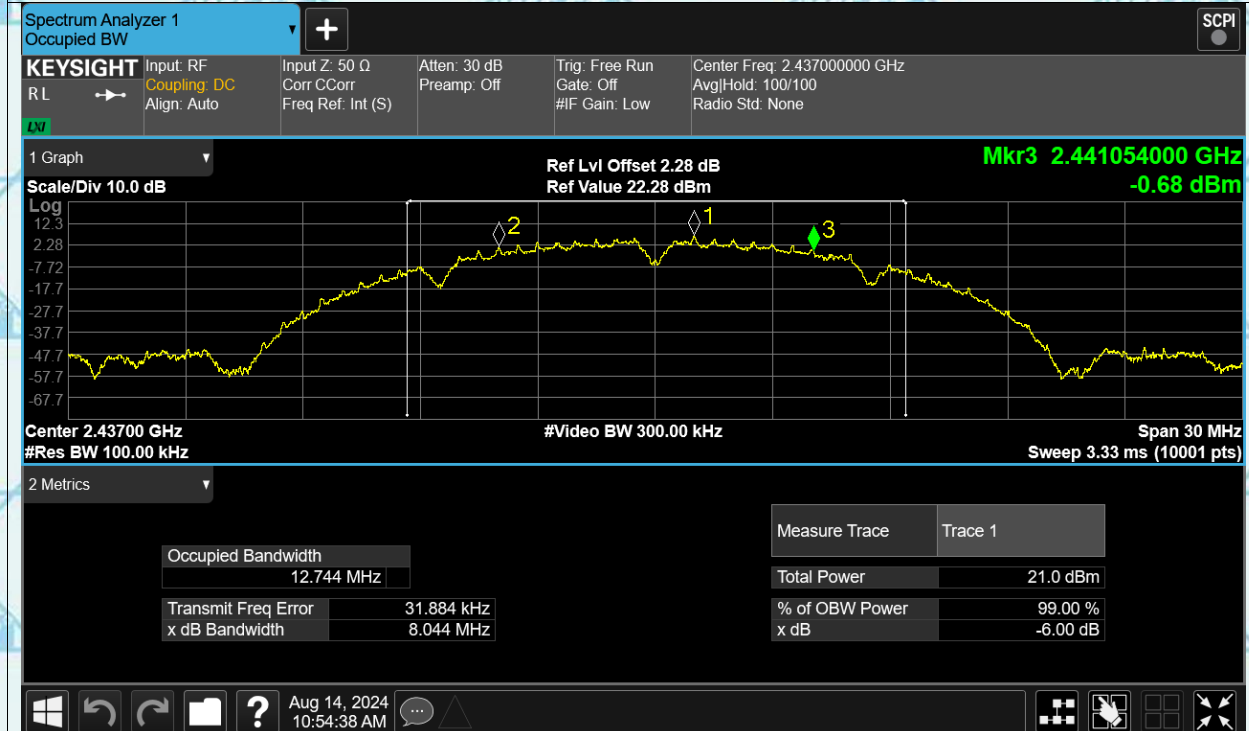
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## Test Graphs

-6dB Bandwidth b 2412MHz



-6dB Bandwidth b 2437MHz



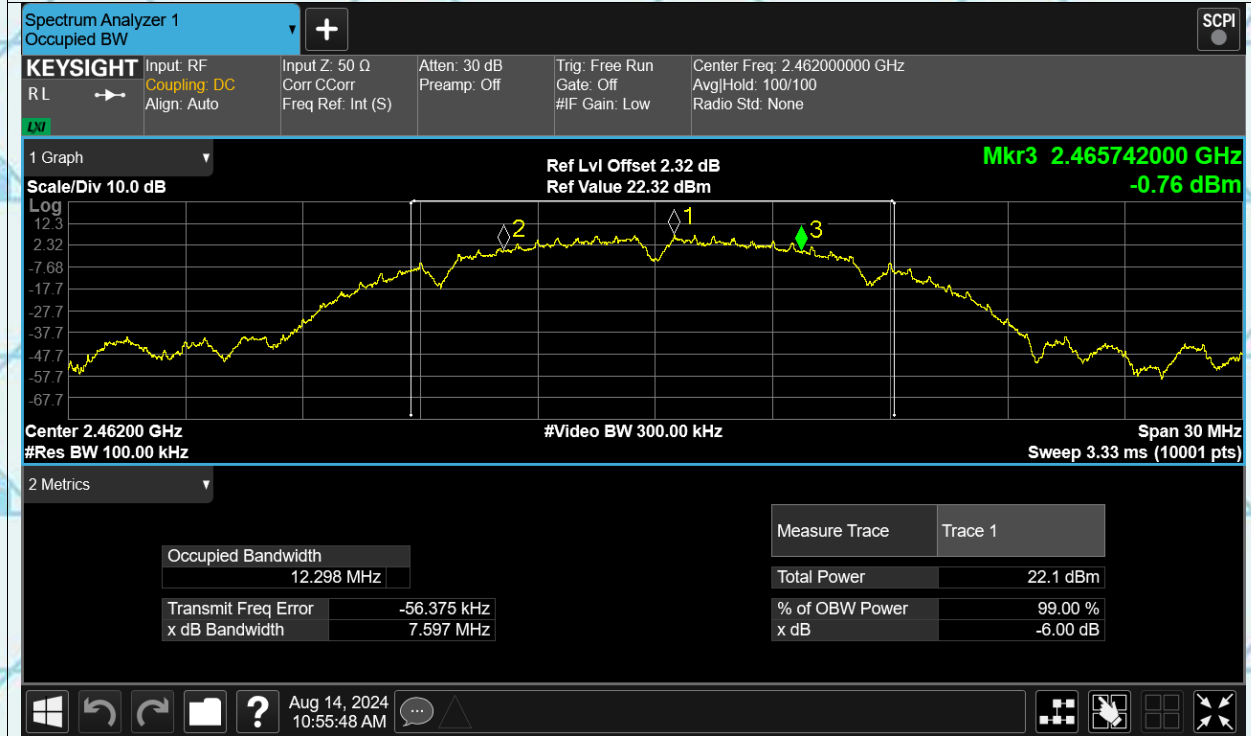
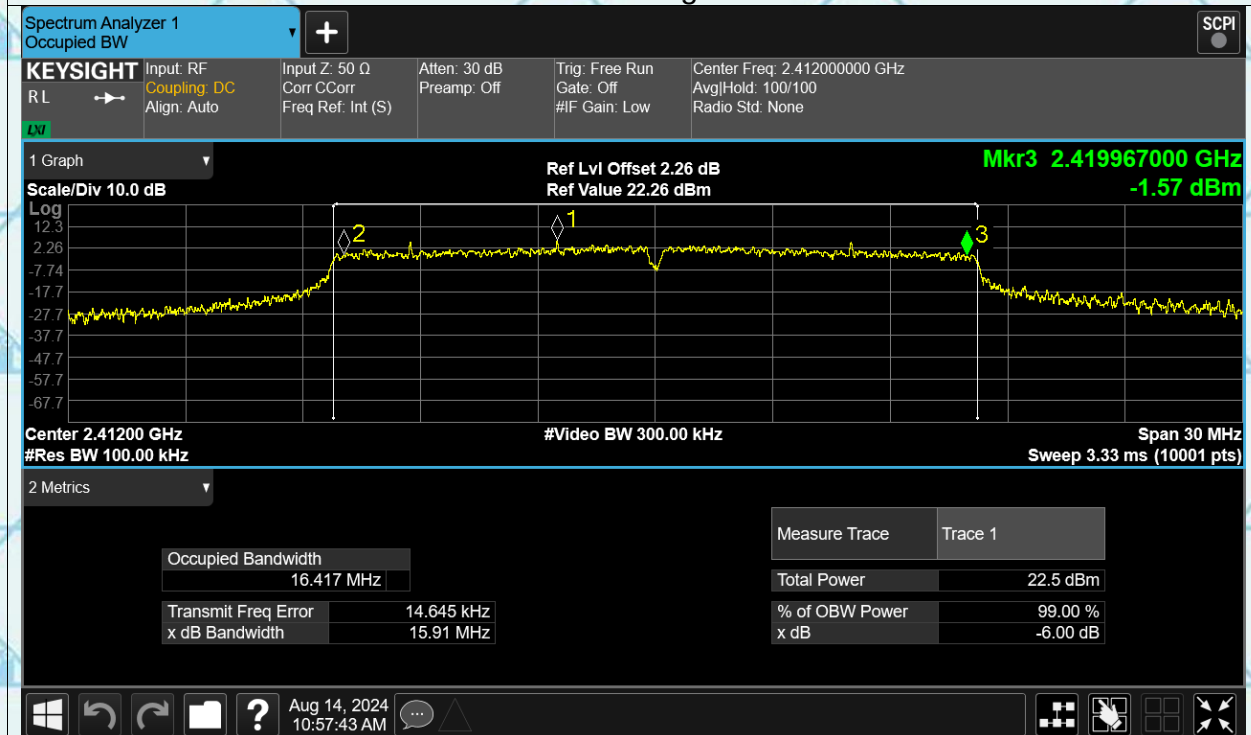
世标检测认证股份

ADD: Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China  
TEL: 86-755-26996192 26992306 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com



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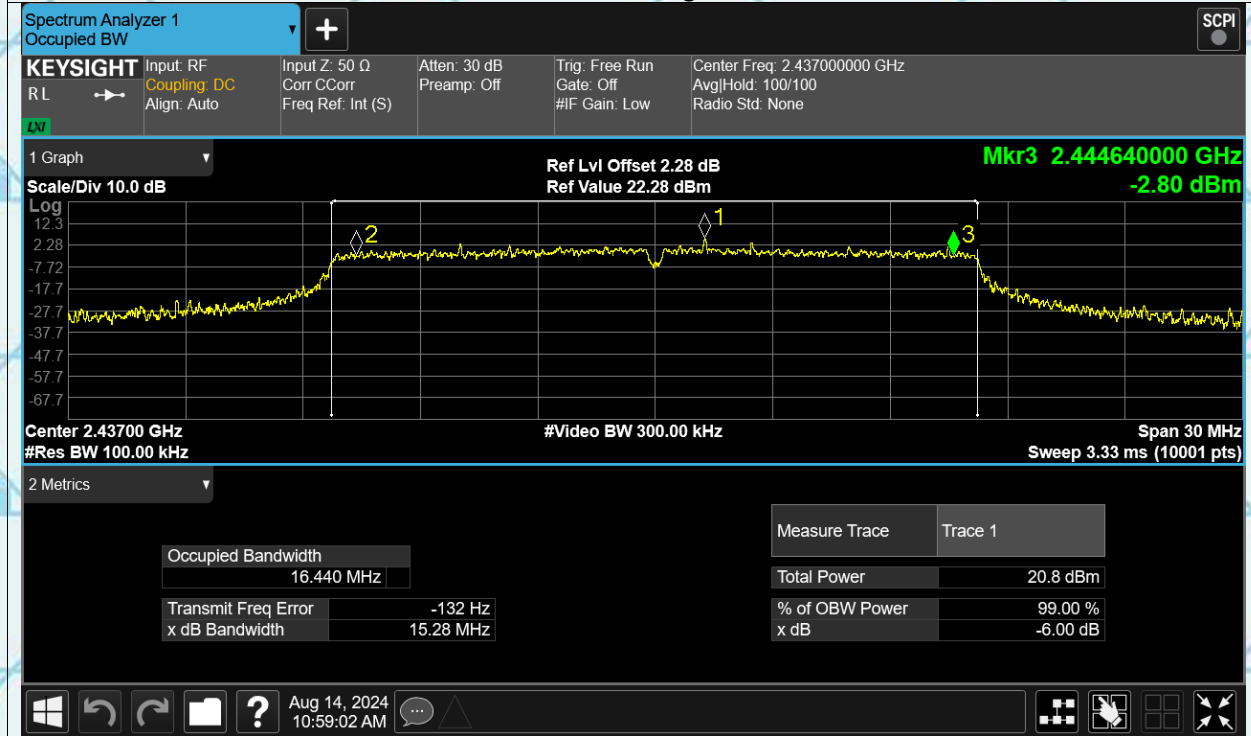
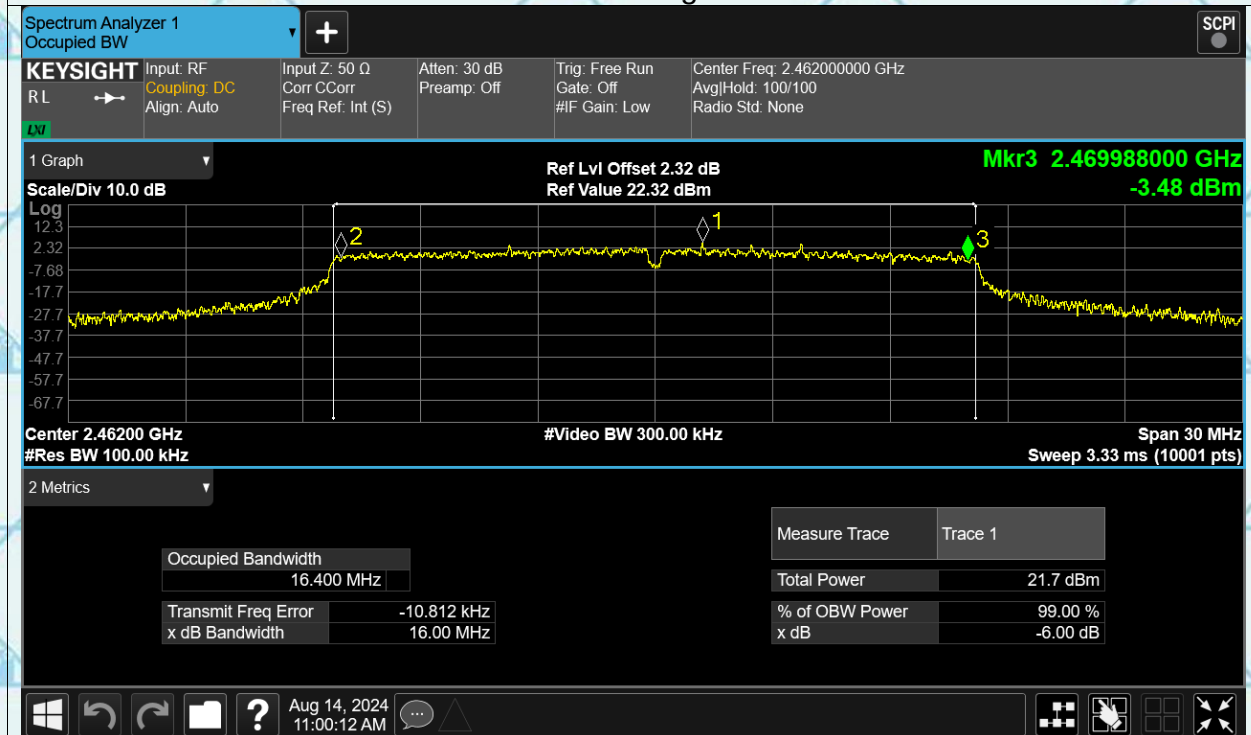
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ADD: Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China  
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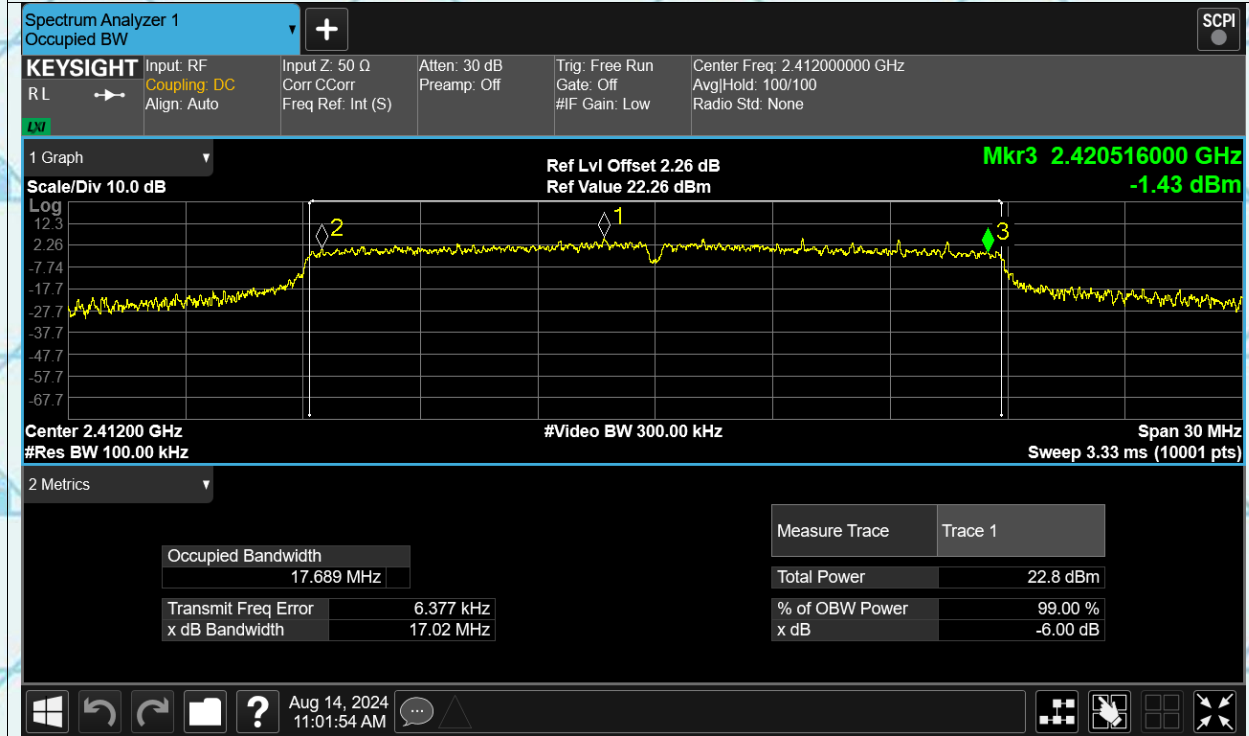


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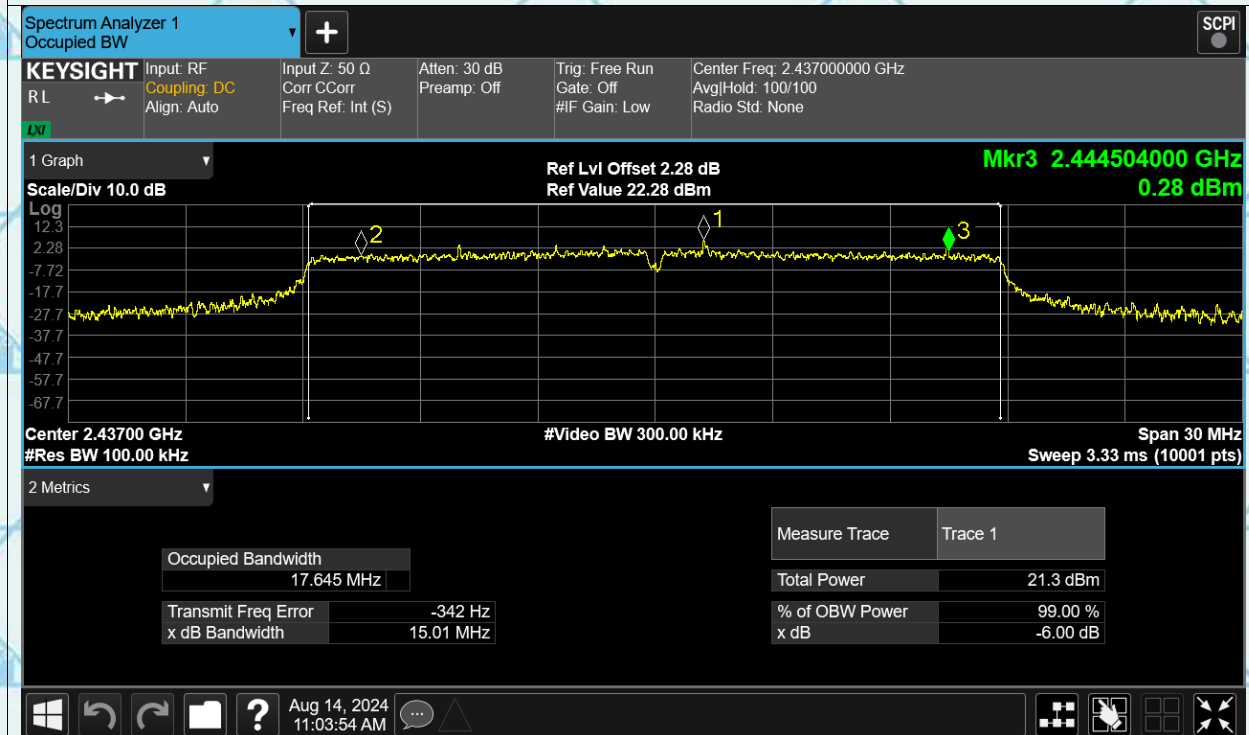
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## -6dB Bandwidth n20 2412MHz



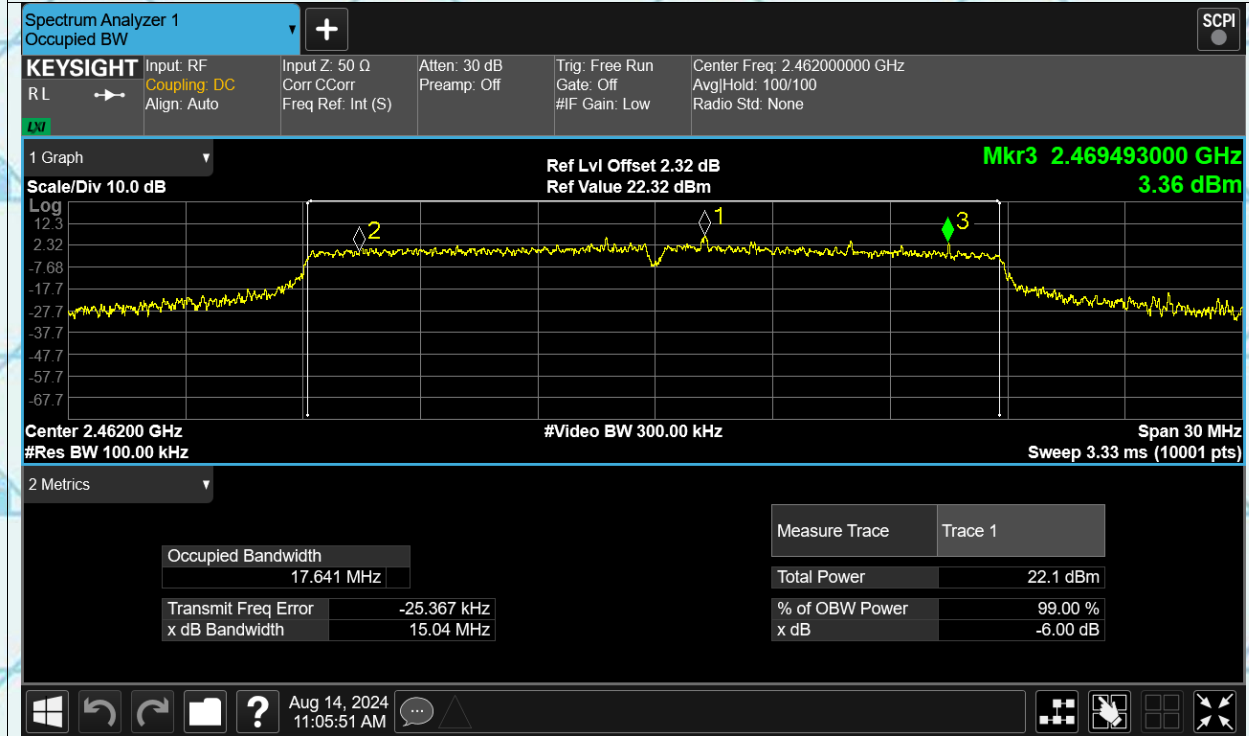
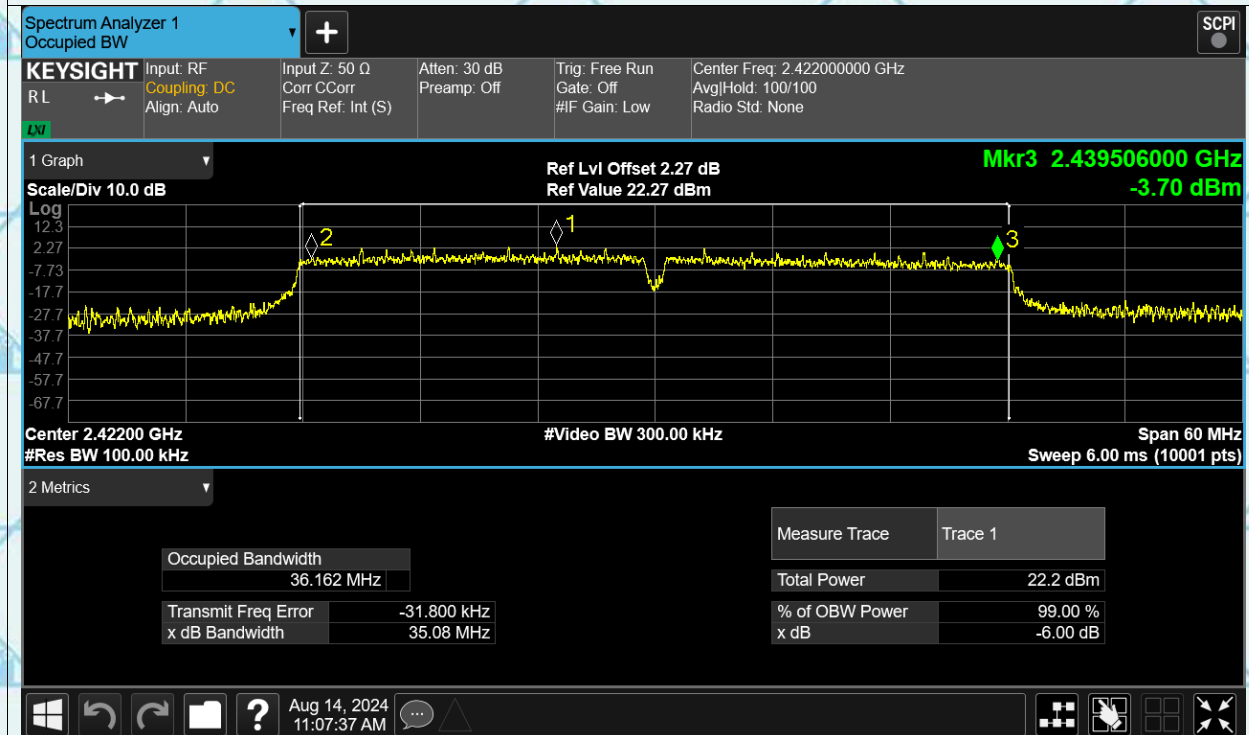
## -6dB Bandwidth n20 2437MHz





Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

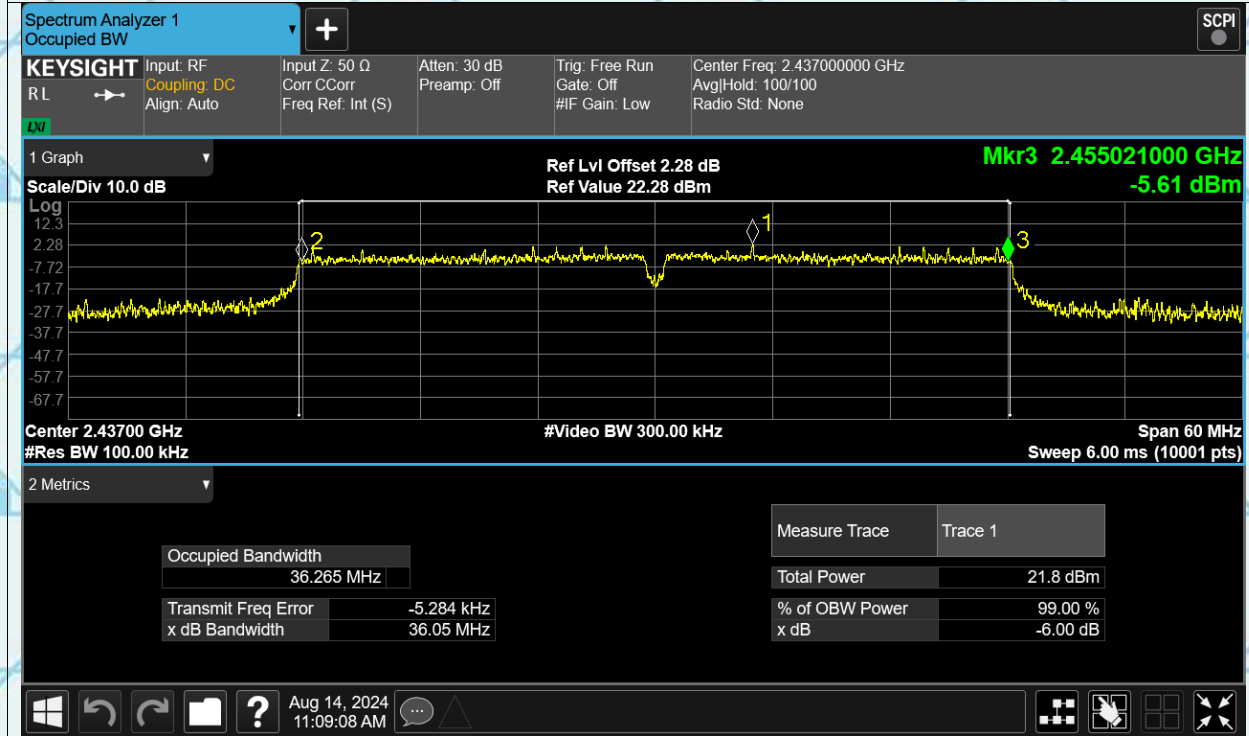
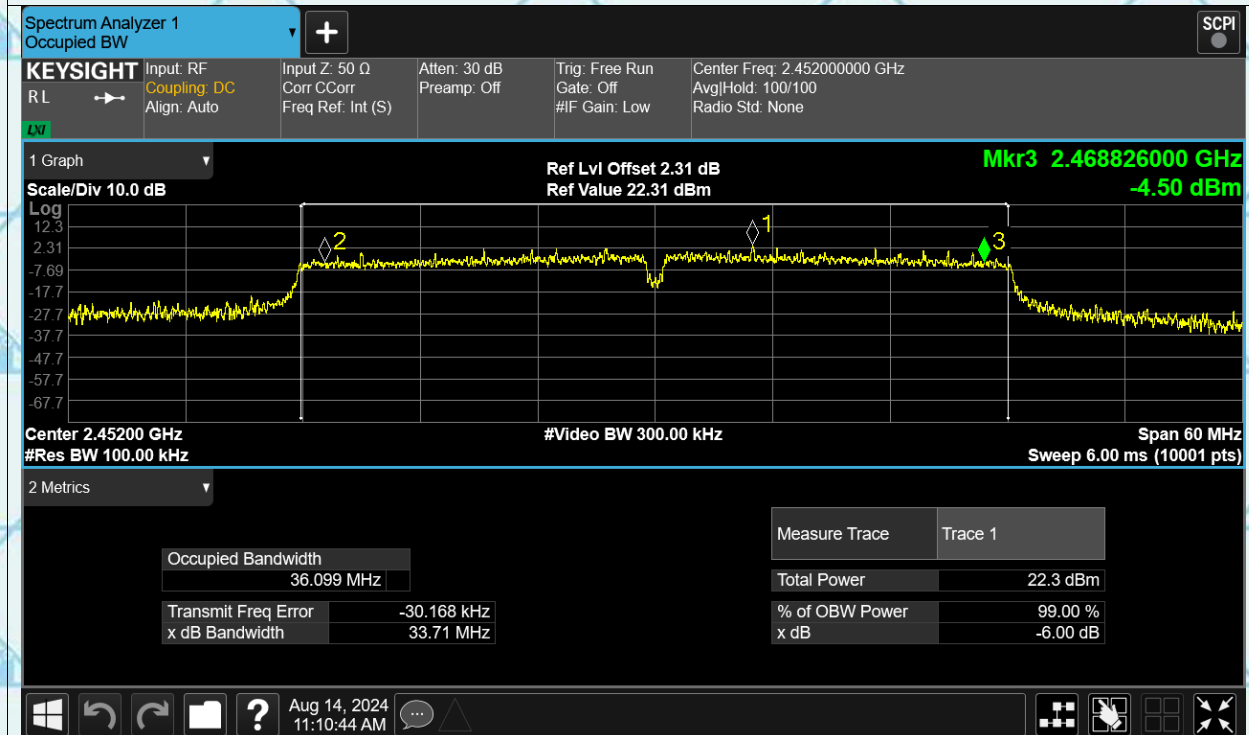
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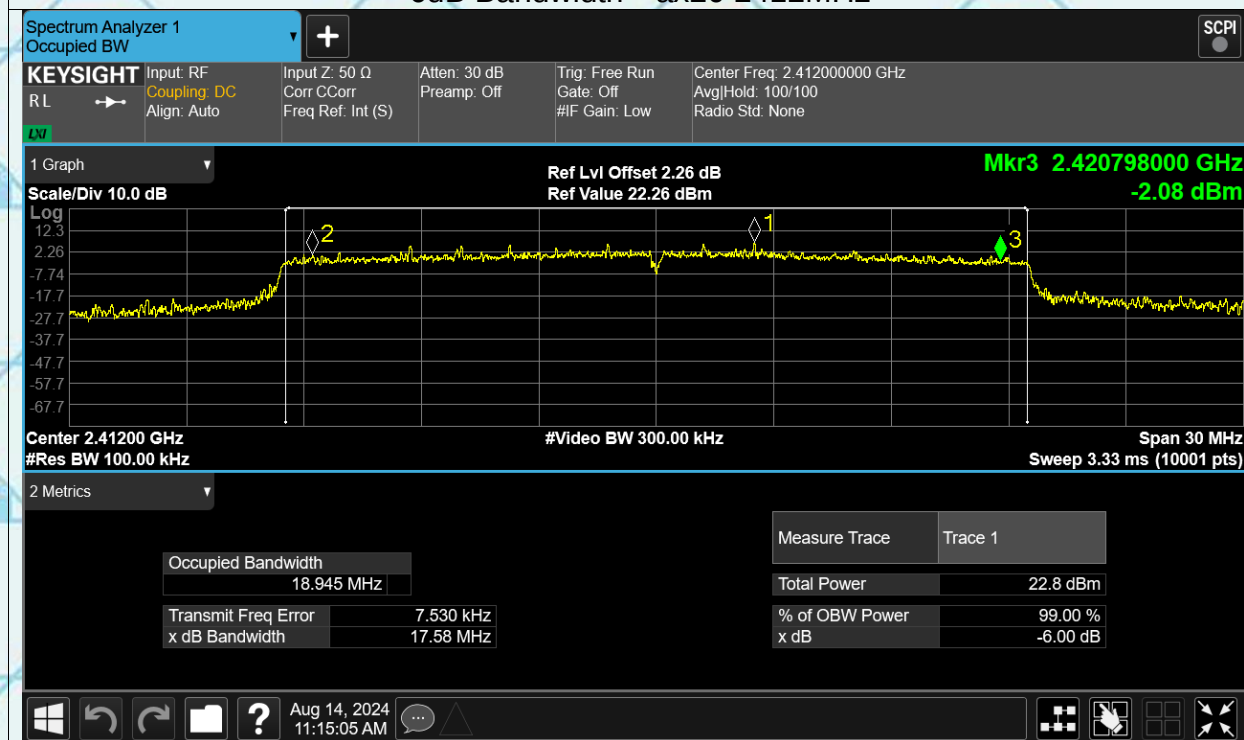
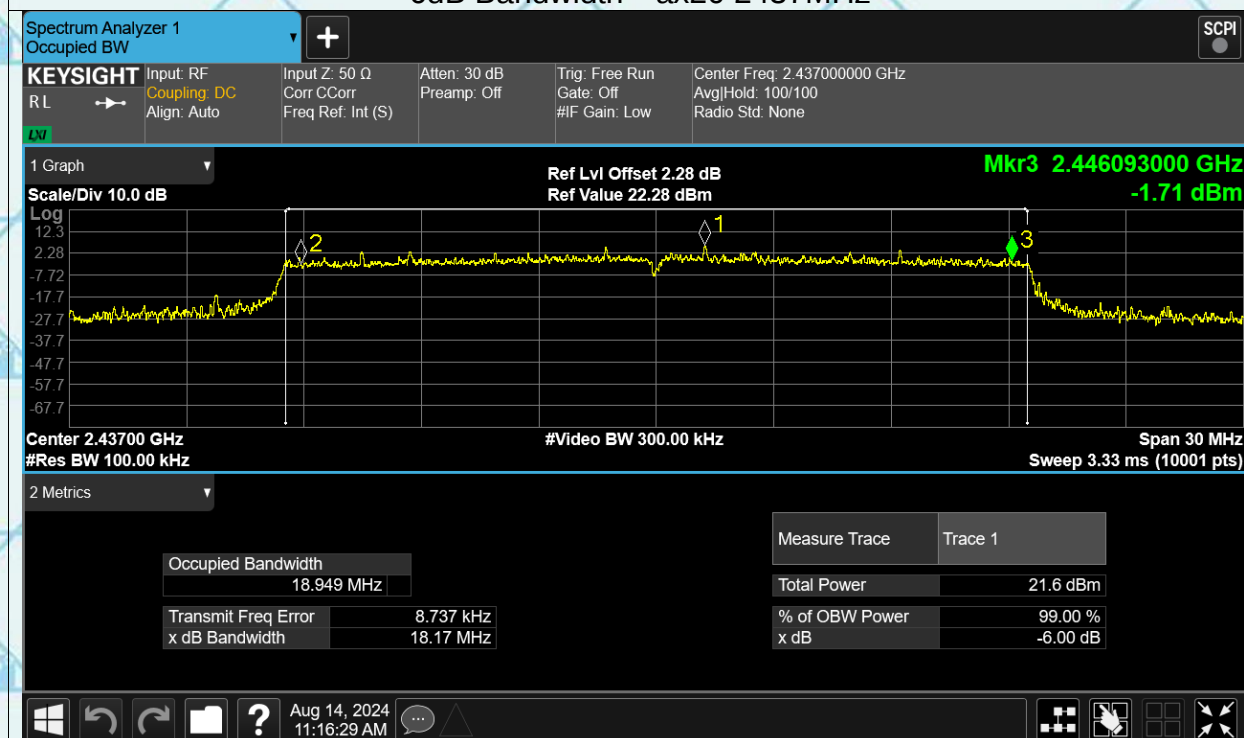
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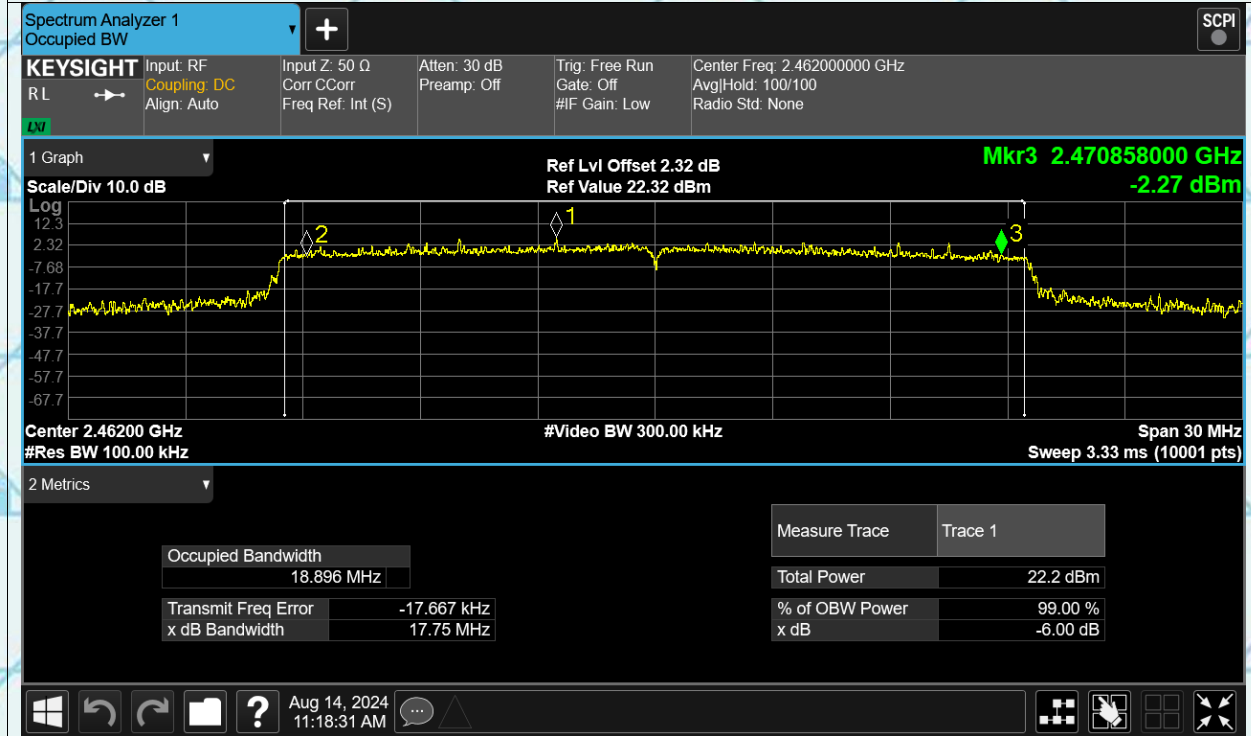
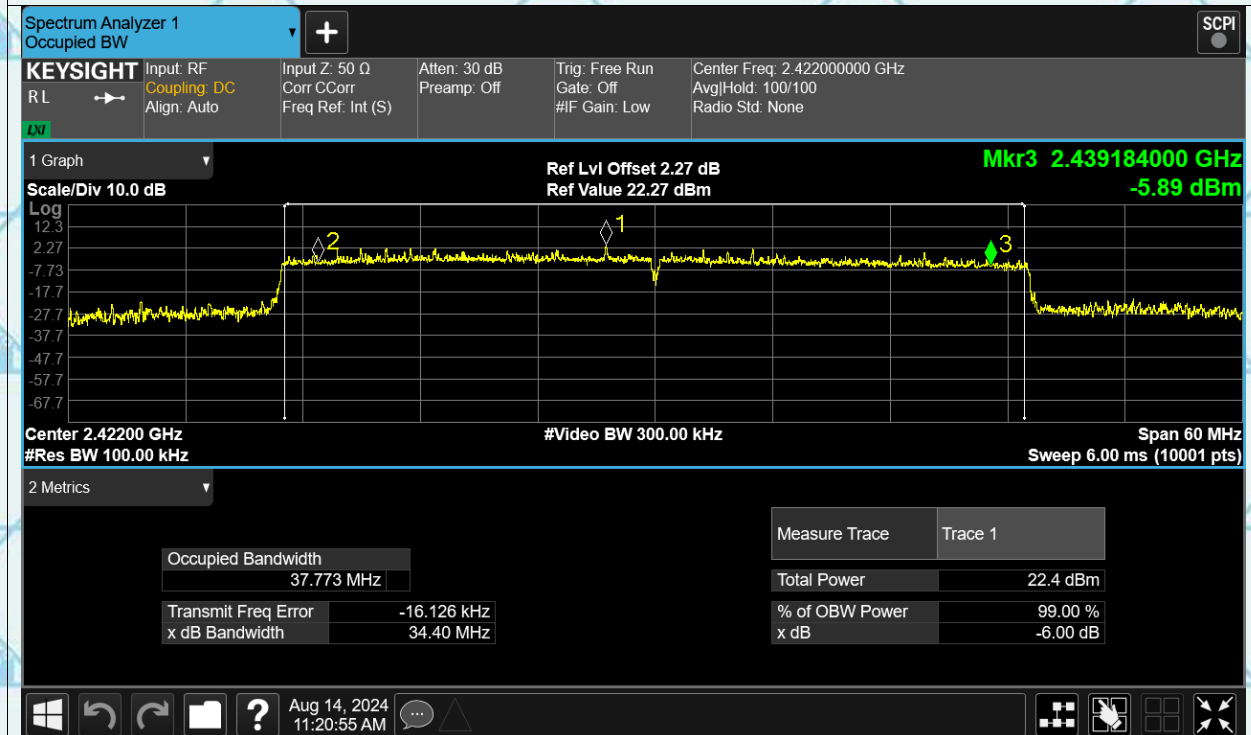
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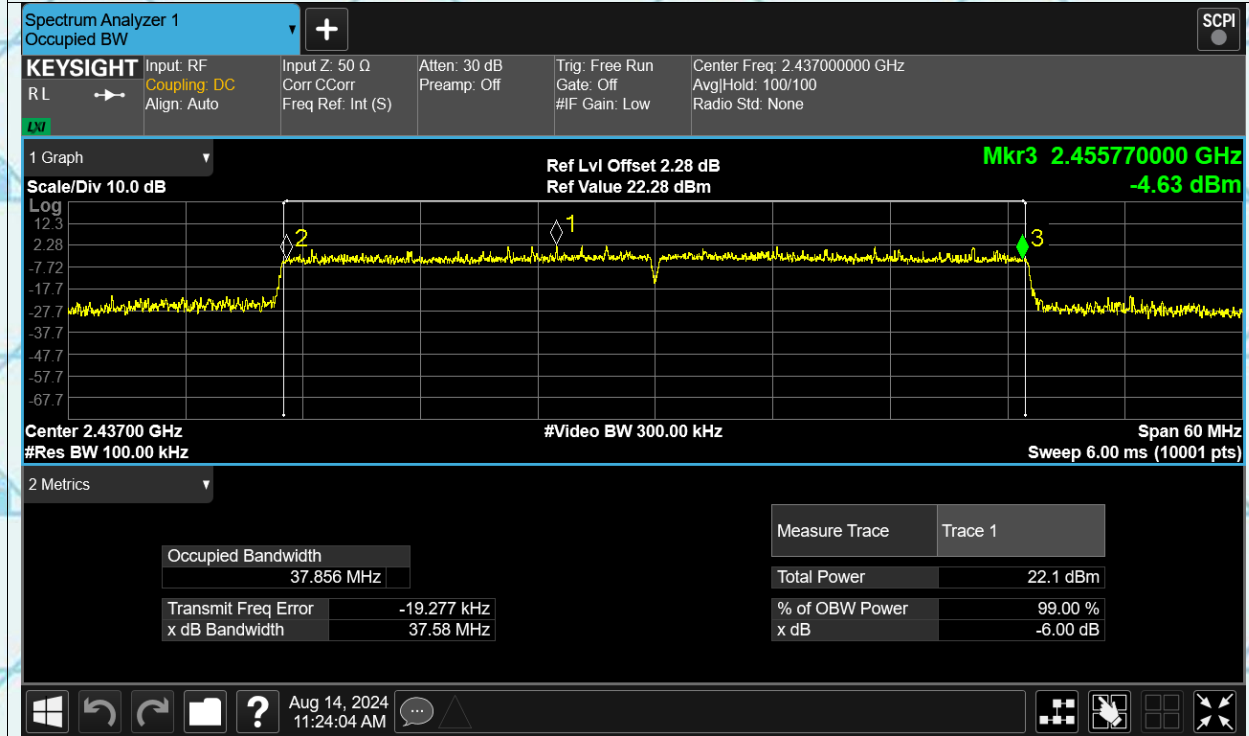
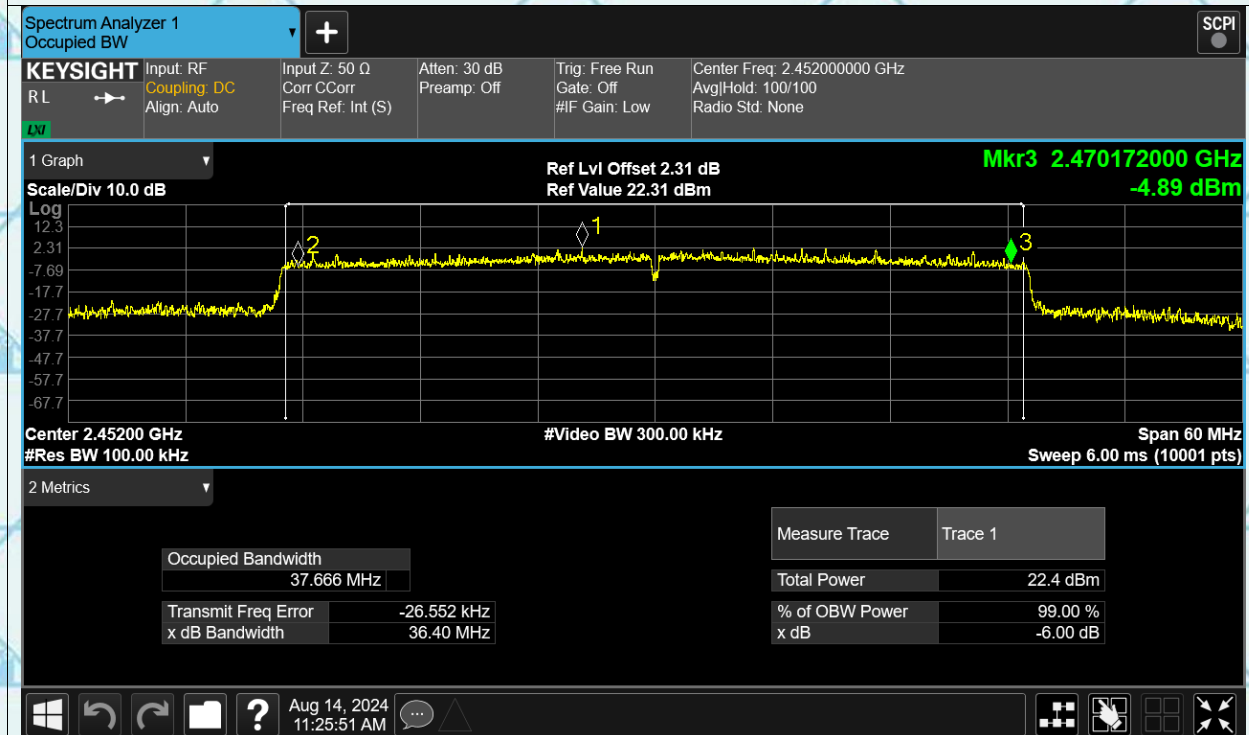
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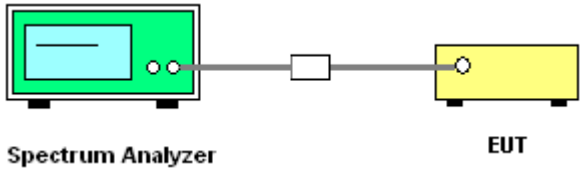
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## 6.4. Power Spectral Density

### 6.4.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Test Method:</b>      | KDB 558074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Limit:</b>            | The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows Measurement Procedure 10.3 Method AVGPS of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04</li> <li>2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): <math>3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}</math>. Video bandwidth VBW <math>\geq 3 \times \text{RBW}</math>. Set the span to at least 1.5 times the OBW.</li> <li>5. Detector = RMS, Sweep time = auto couple.</li> <li>6. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.</li> <li>6. Measure and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



- (i) If all antennas have the same gain,  $G_{ANT}$ :  
*Directional gain* =  $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$  dBi, where  $N_{SS}$  = the number of independent spatial streams of data and  $G_{ANT}$  is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for  $G_{ANT}$ .)
- (ii) If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following two formulas.
- Directional gain* =  $G_{ANT\ MAX} + 10 \log(N_{ANT}/N_{SS})$  dBi, where  $N_{SS}$  = the number of independent spatial streams of data and  $G_{ANT\ MAX}$  is the gain of the antenna having the highest gain (in dBi).

Or,

$$\bullet \text{ Directional Gain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

For power spectral density (PSD) measurements on all devices,  
 Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

Note:  $N_{ANT}=2$ , Array gain= $10 \log(N_{ANT}/N_{SS})=10 \log(2/1)=3.01$ dB, Directional gain= $G_{ANT}$ +Array gain= $2.70$ dB+ $3.01$ dB= $5.71$ dB, not exceeding 6, so psd limits remain unchanged.



## 6.4.2. Test data

MAIN Ant1

| Mode | Frequency (MHz) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|------|-----------------|----------------------|------------------|---------|
| b    | 2412            | 4.12                 | 8                | Pass    |
| b    | 2437            | 3.12                 | 8                | Pass    |
| b    | 2462            | 2.68                 | 8                | Pass    |
| g    | 2412            | -3.21                | 8                | Pass    |
| g    | 2437            | -5.33                | 8                | Pass    |
| g    | 2462            | 0.89                 | 8                | Pass    |
| n20  | 2412            | -2.04                | 8                | Pass    |
| n20  | 2437            | -4.08                | 8                | Pass    |
| n20  | 2462            | -2.93                | 8                | Pass    |
| n40  | 2422            | -6.40                | 8                | Pass    |
| n40  | 2437            | -7.64                | 8                | Pass    |
| n40  | 2452            | -6.61                | 8                | Pass    |
| ax20 | 2412            | -3.47                | 8                | Pass    |
| ax20 | 2437            | -5.08                | 8                | Pass    |
| ax20 | 2462            | -4.05                | 8                | Pass    |
| ax40 | 2422            | -6.23                | 8                | Pass    |
| ax40 | 2437            | -8.14                | 8                | Pass    |
| ax40 | 2452            | -7.06                | 8                | Pass    |

AUX Ant2

| Mode | Frequency (MHz) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|------|-----------------|----------------------|------------------|---------|
| b    | 2412            | 5.22                 | 8                | Pass    |
| b    | 2437            | 1.76                 | 8                | Pass    |
| b    | 2462            | 4.26                 | 8                | Pass    |
| g    | 2412            | -4.65                | 8                | Pass    |
| g    | 2437            | -5.81                | 8                | Pass    |
| g    | 2462            | -5.11                | 8                | Pass    |
| n20  | 2412            | -2.65                | 8                | Pass    |
| n20  | 2437            | -5.53                | 8                | Pass    |
| n20  | 2462            | -4.06                | 8                | Pass    |
| n40  | 2422            | -6.91                | 8                | Pass    |
| n40  | 2437            | -8.24                | 8                | Pass    |
| n40  | 2452            | -7.32                | 8                | Pass    |
| ax20 | 2412            | -3.9                 | 8                | Pass    |
| ax20 | 2437            | -5.63                | 8                | Pass    |
| ax20 | 2462            | -4.64                | 8                | Pass    |
| ax40 | 2422            | -7.16                | 8                | Pass    |
| ax40 | 2437            | -7.83                | 8                | Pass    |
| ax40 | 2452            | -7.28                | 8                | Pass    |



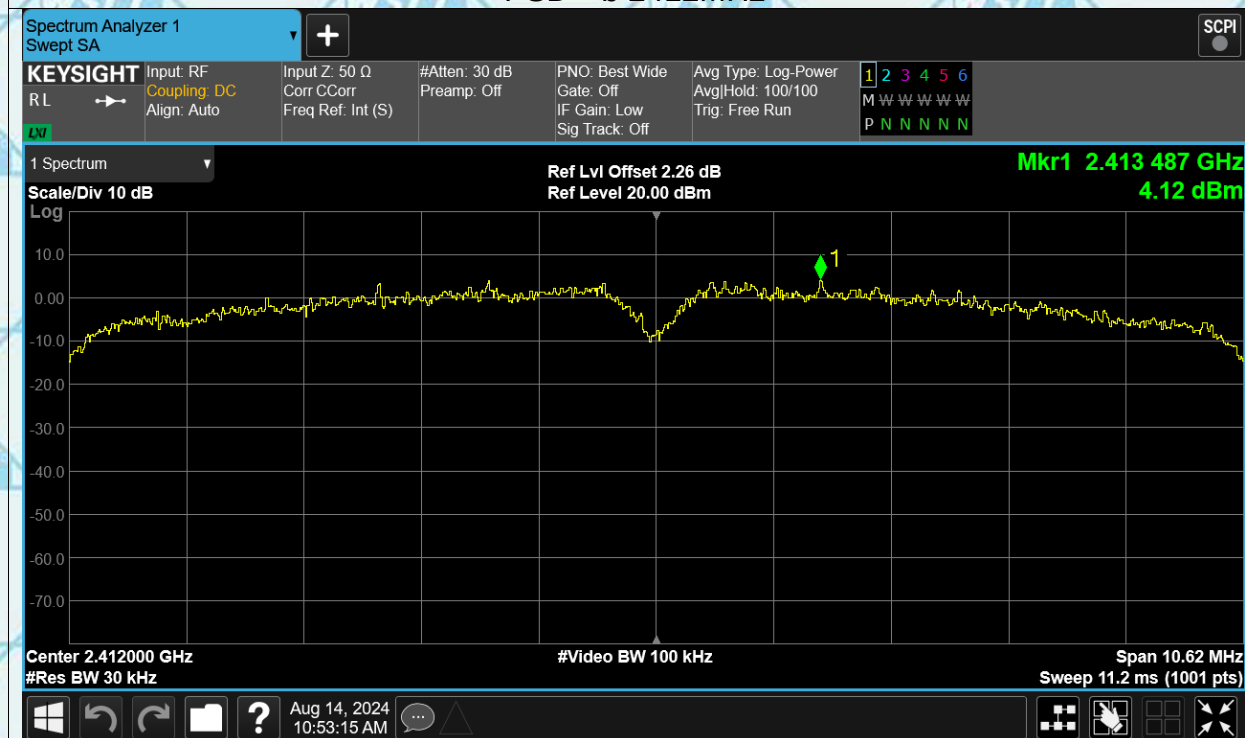
## MIMO

| Mode | Frequency (MHz) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|------|-----------------|----------------------|------------------|---------|
| n20  | 2412            | 0.68                 | 8                | Pass    |
| n20  | 2437            | -1.73                | 8                | Pass    |
| n20  | 2462            | -0.45                | 8                | Pass    |
| n40  | 2422            | -3.64                | 8                | Pass    |
| n40  | 2437            | -4.92                | 8                | Pass    |
| n40  | 2452            | -3.94                | 8                | Pass    |
| ax20 | 2412            | -0.67                | 8                | Pass    |
| ax20 | 2437            | -2.34                | 8                | Pass    |
| ax20 | 2462            | -1.32                | 8                | Pass    |
| ax40 | 2422            | -3.66                | 8                | Pass    |
| ax40 | 2437            | -4.97                | 8                | Pass    |
| ax40 | 2452            | -4.16                | 8                | Pass    |

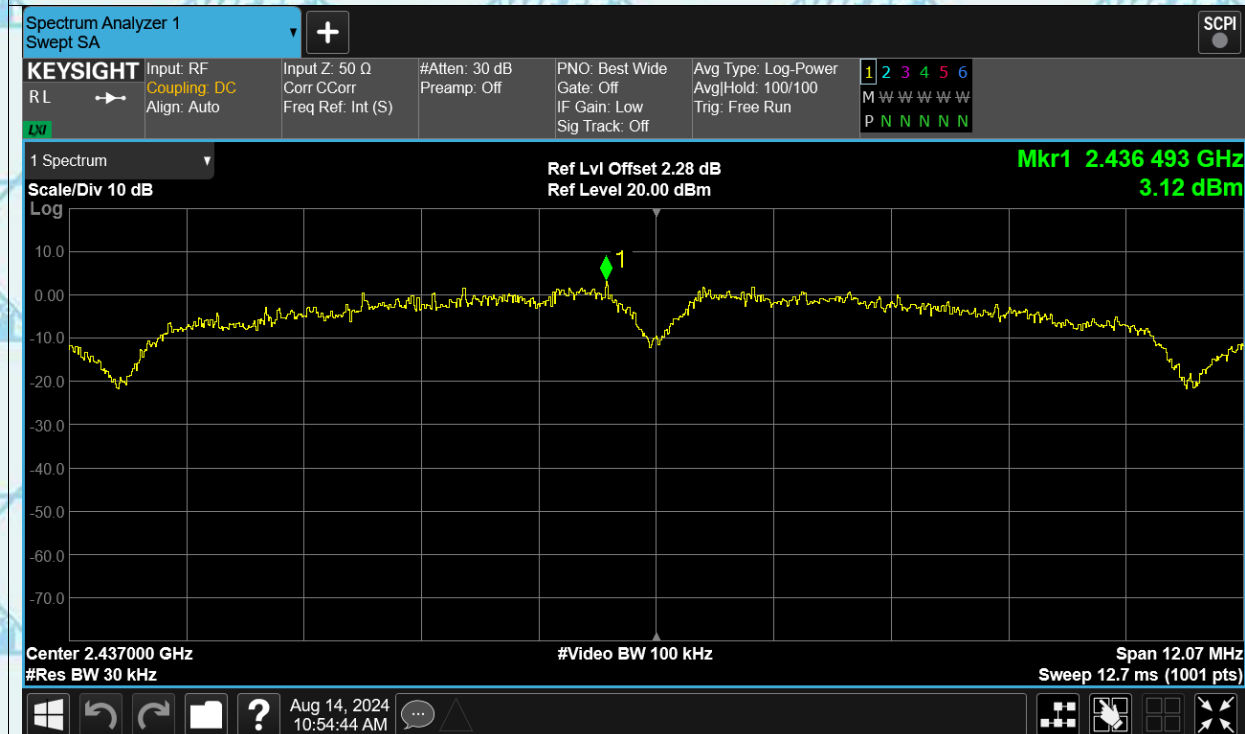


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

Certificate #5768.01

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PSD b 2412MHz

## PSD b 2437MHz



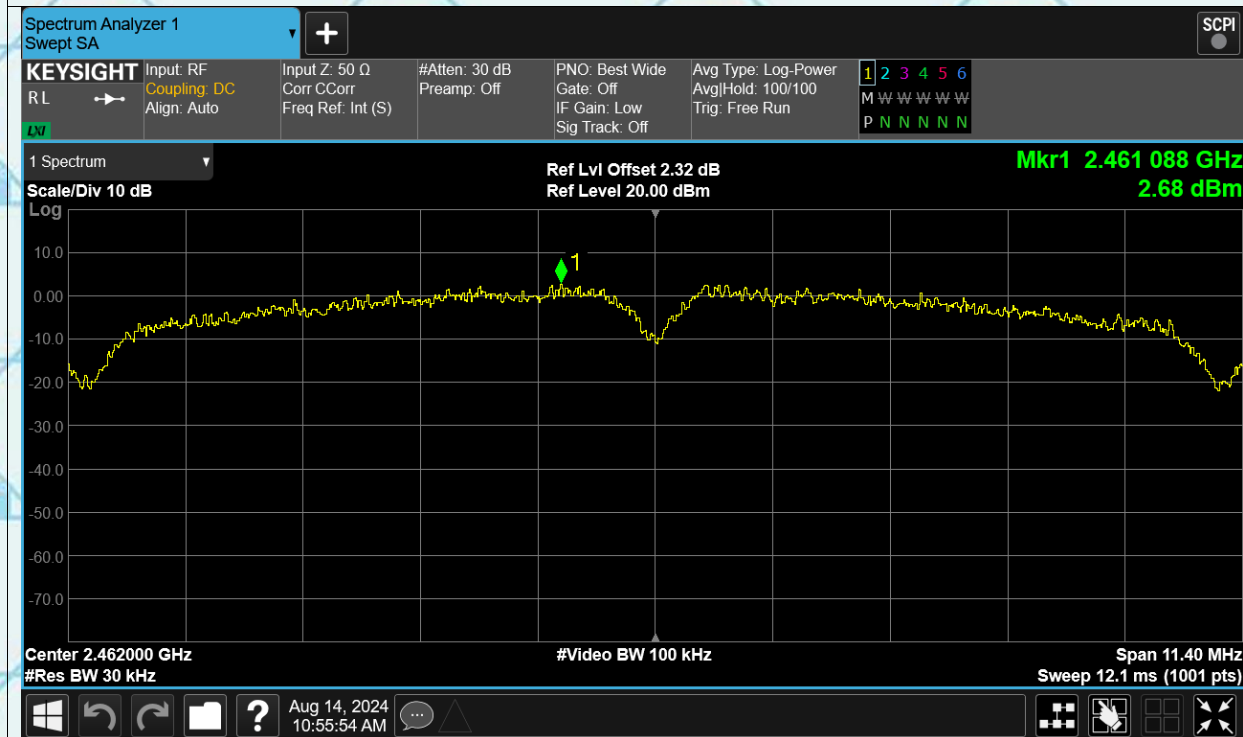


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

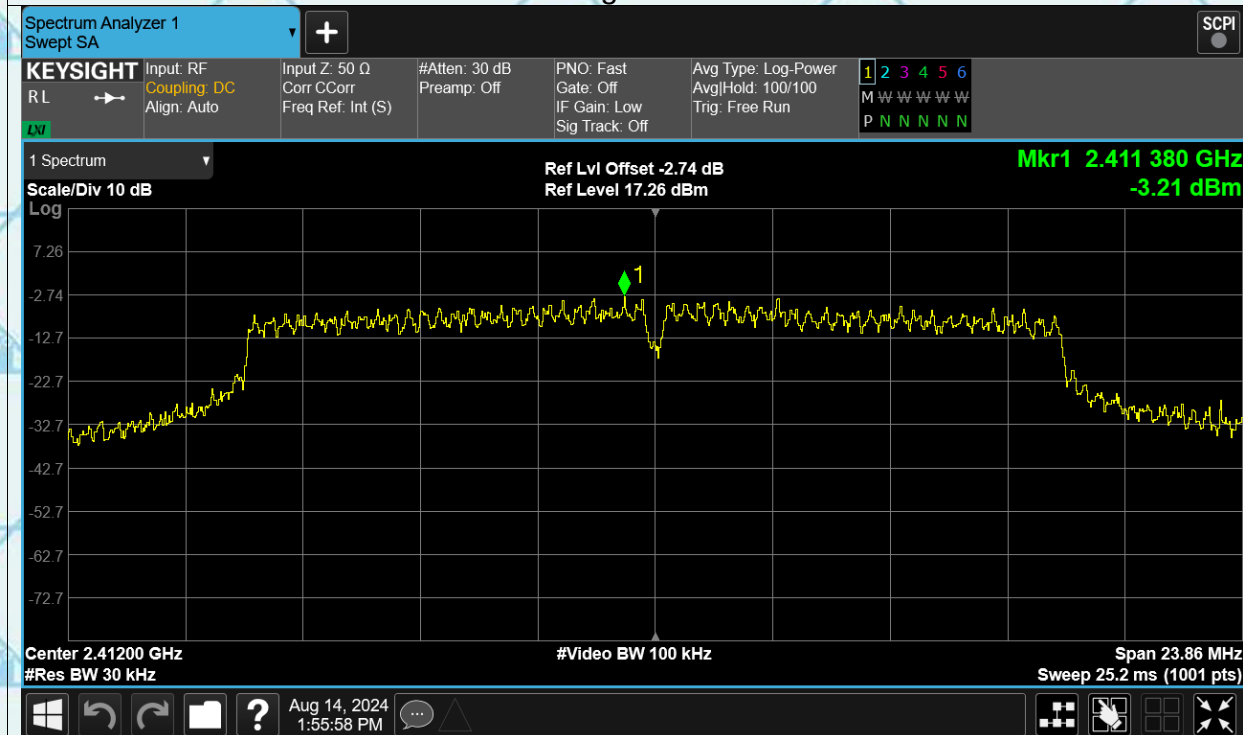
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## PSD b 2462MHz



## PSD g 2412MHz



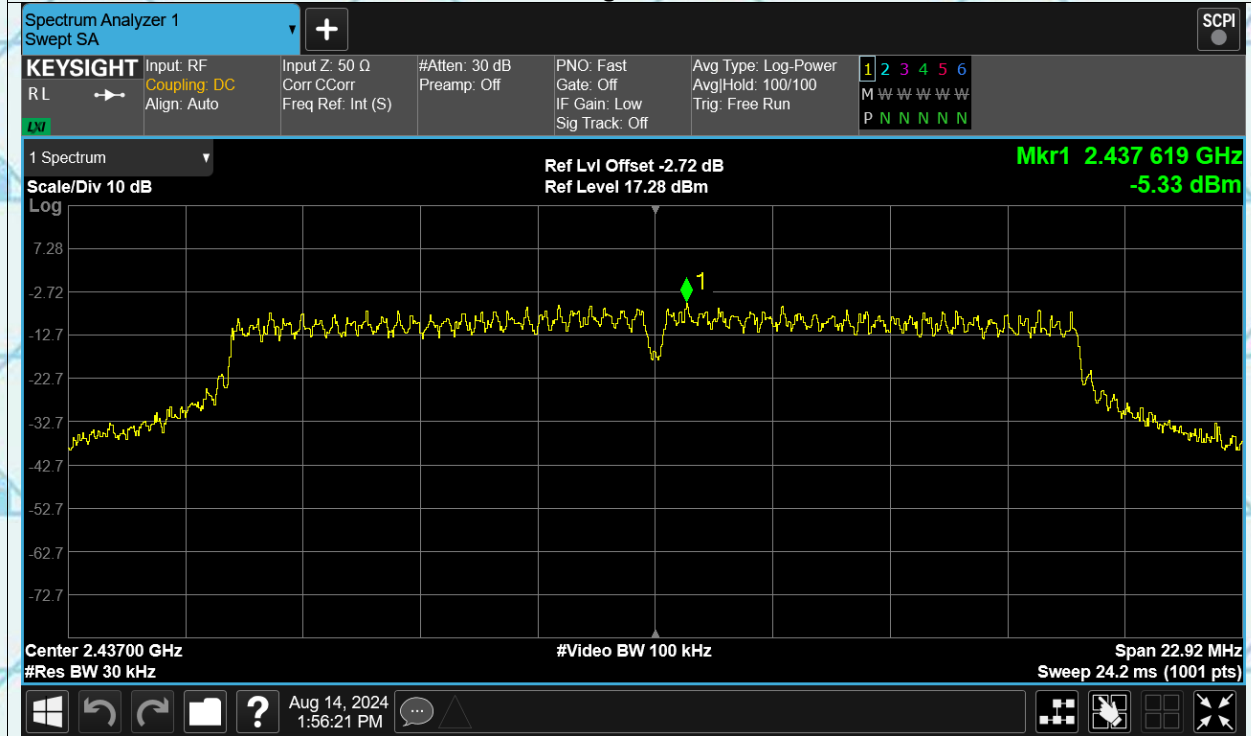


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

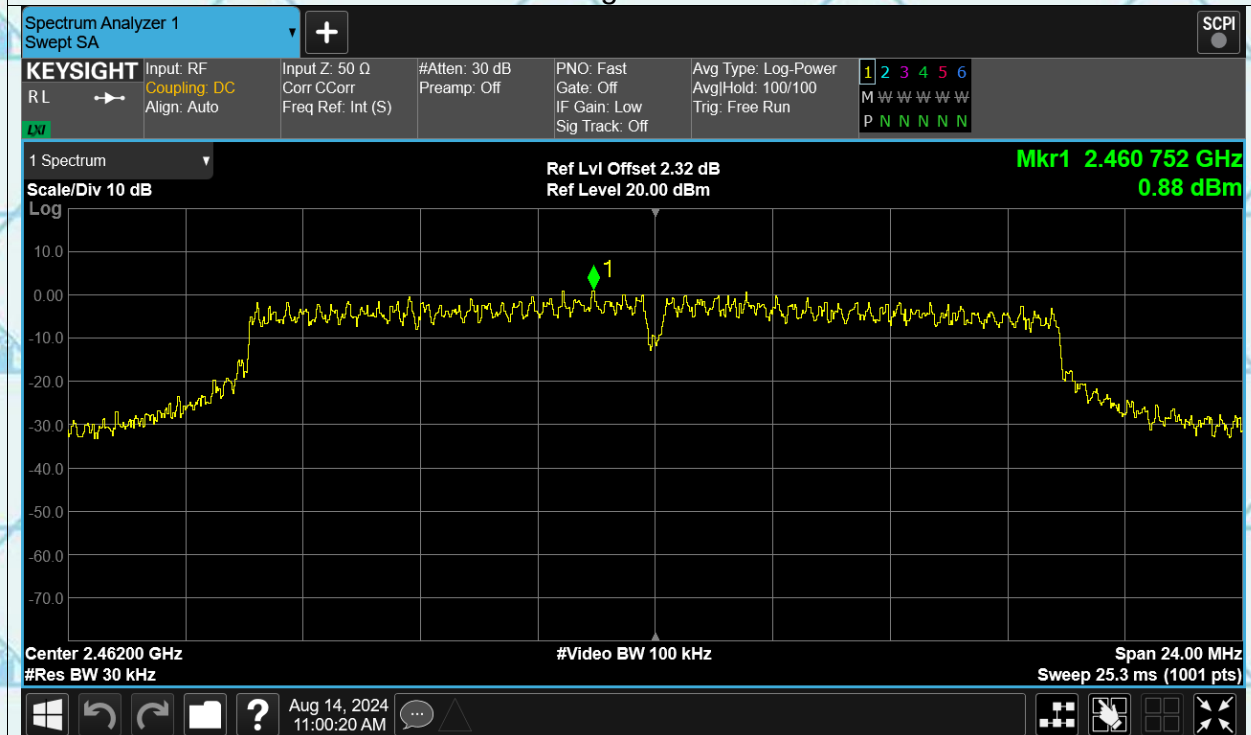
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## PSD g 2437MHz



## PSD g 2462MHz



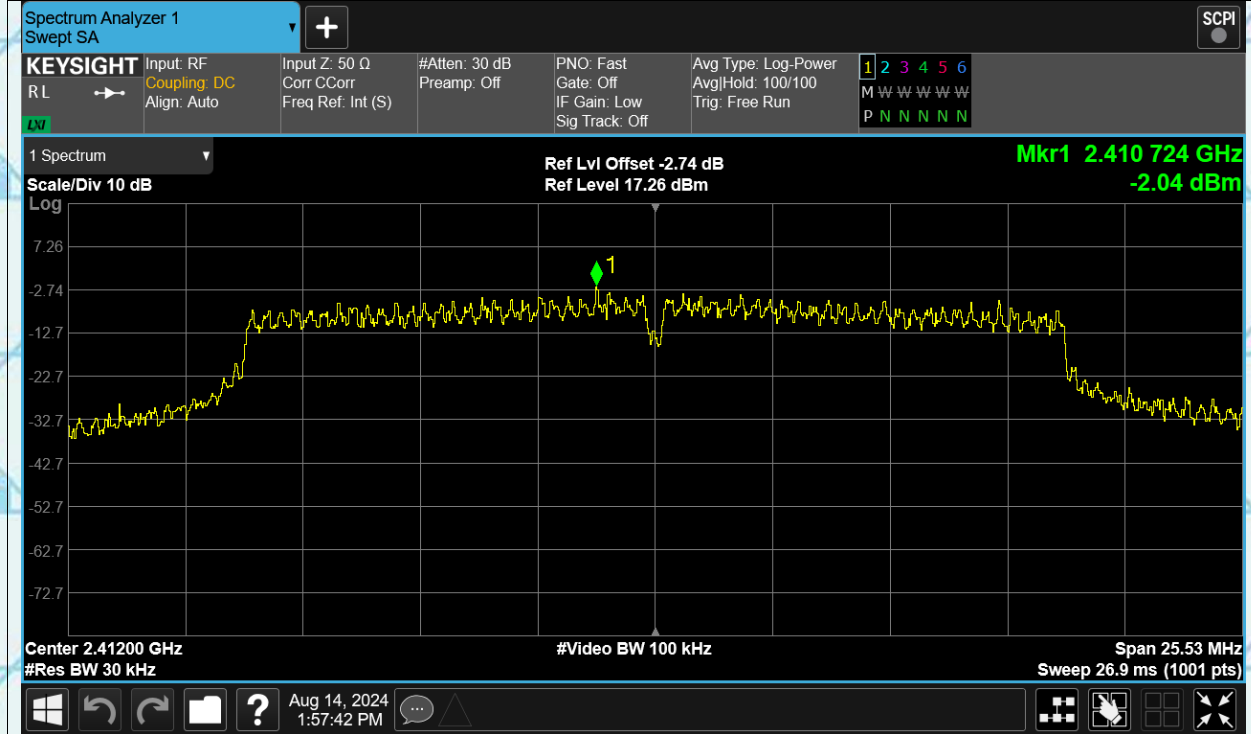


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

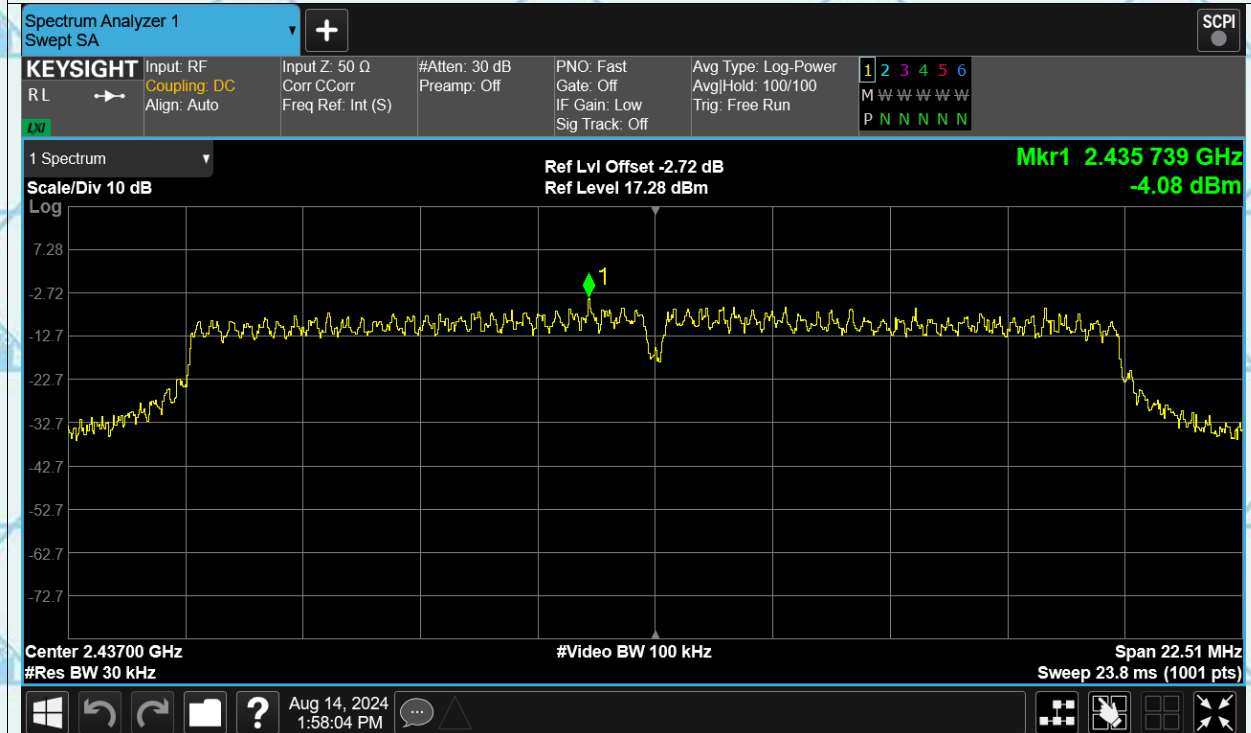
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## PSD n20 2412MHz



## PSD n20 2437MHz



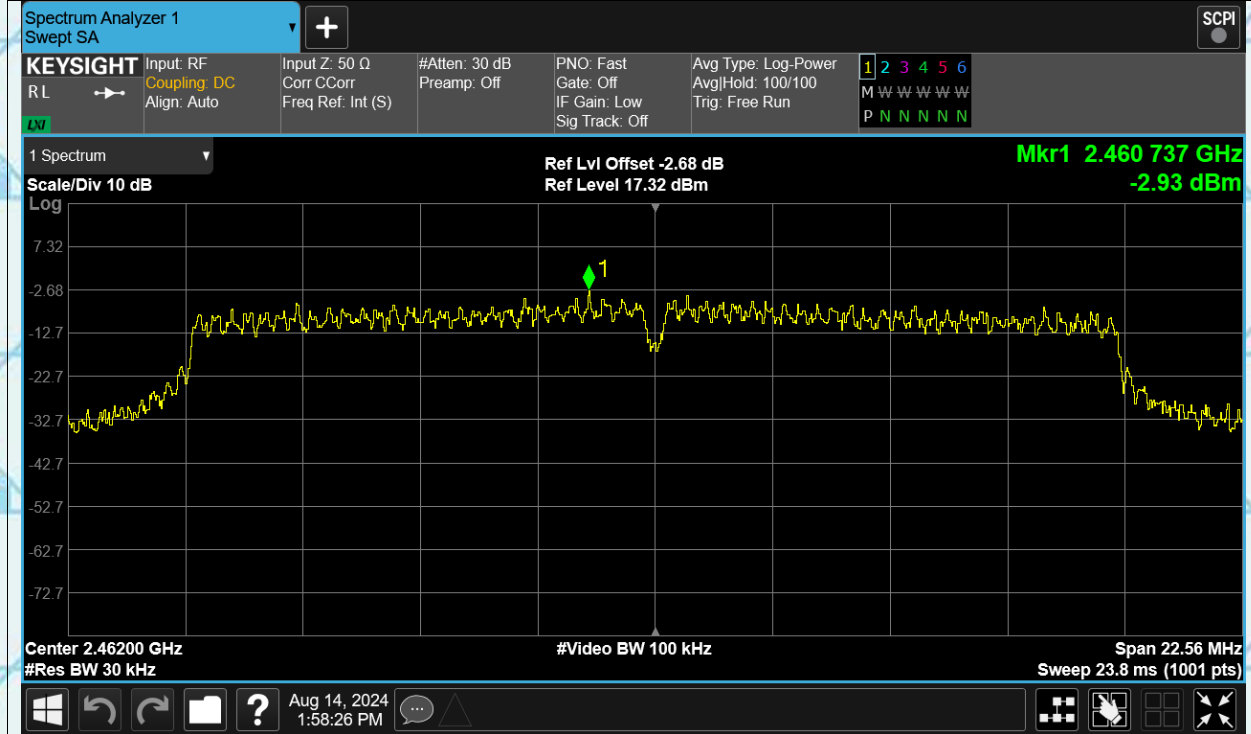


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

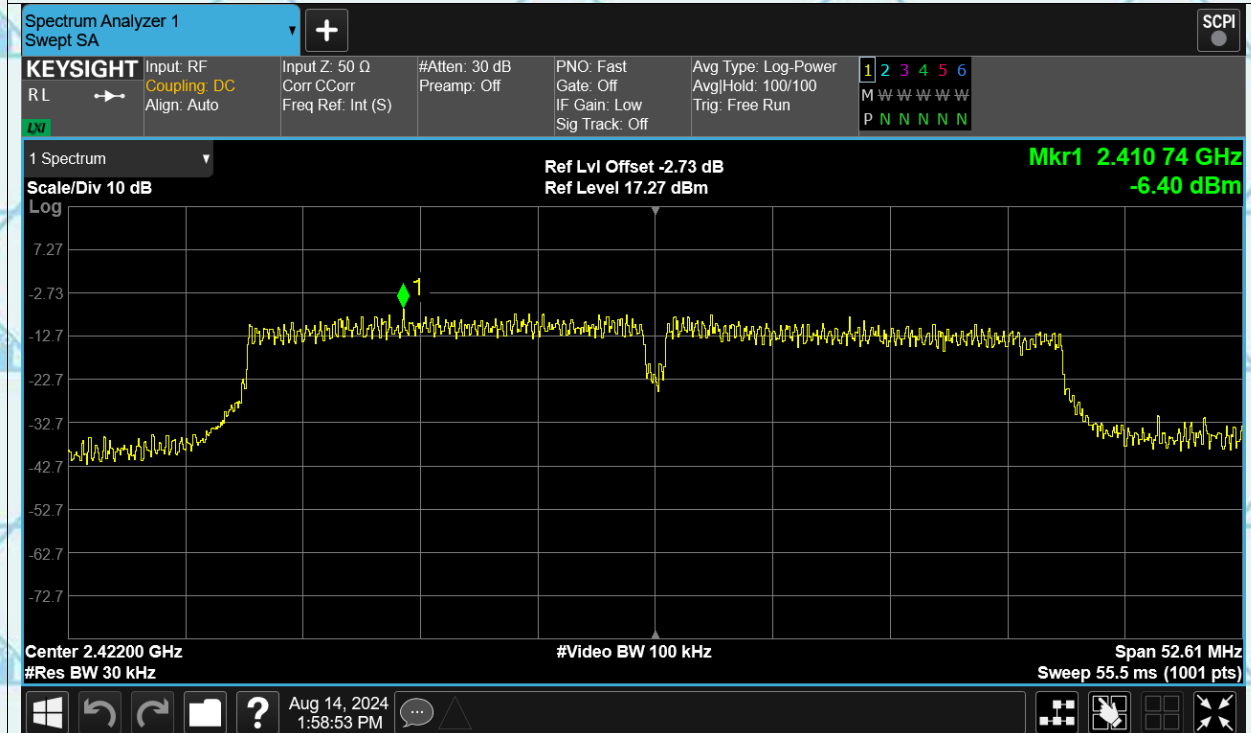
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## PSD n20 2462MHz



## PSD n40 2422MHz



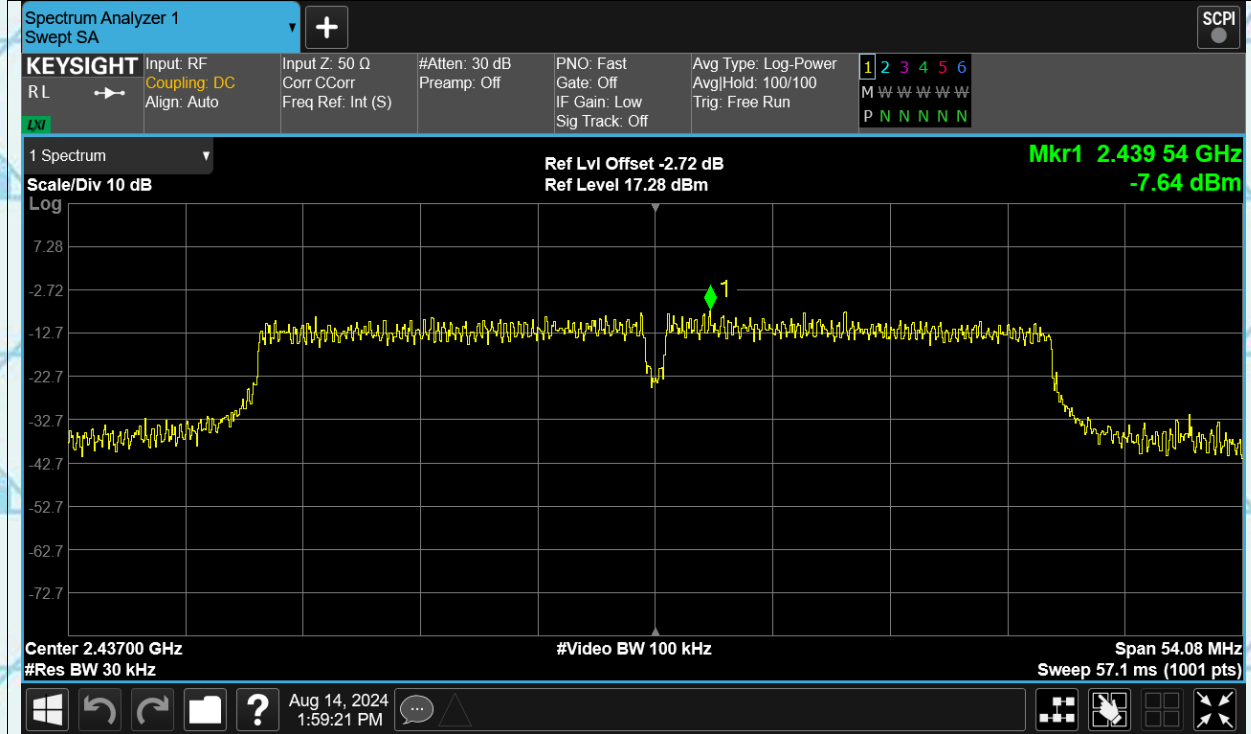


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

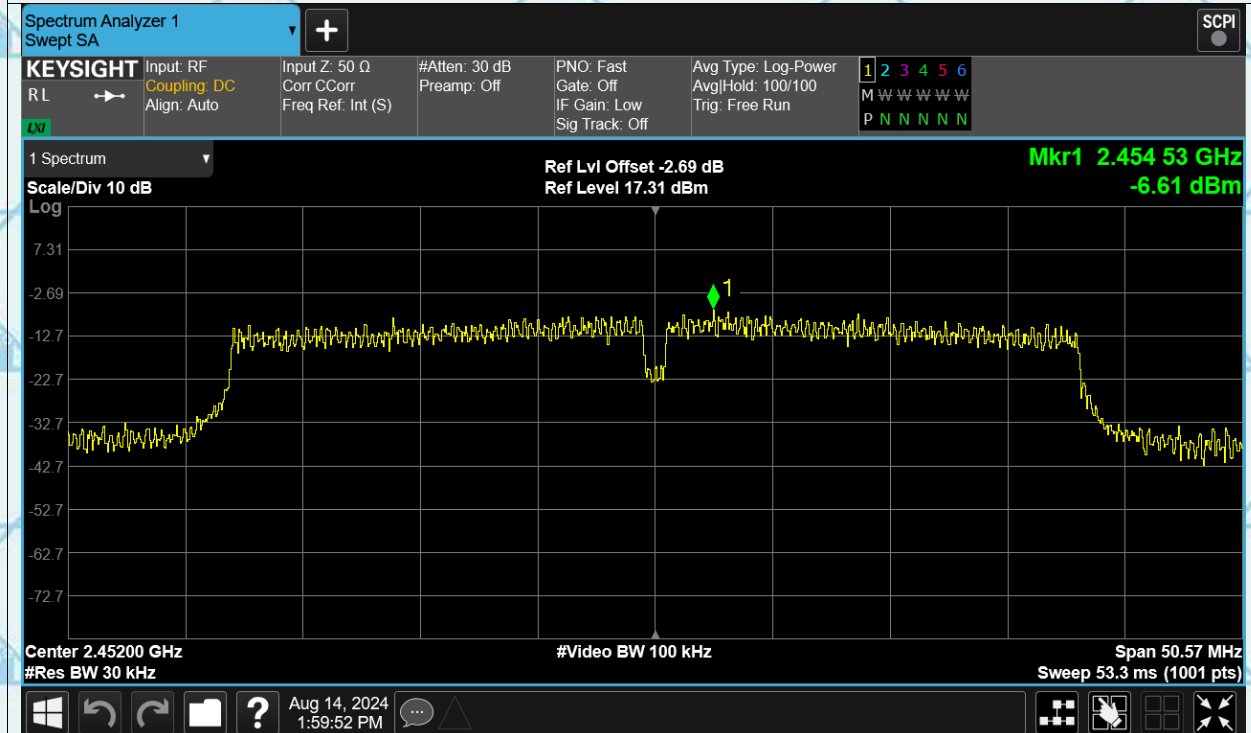
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## PSD n40 2437MHz



## PSD n40 2452MHz



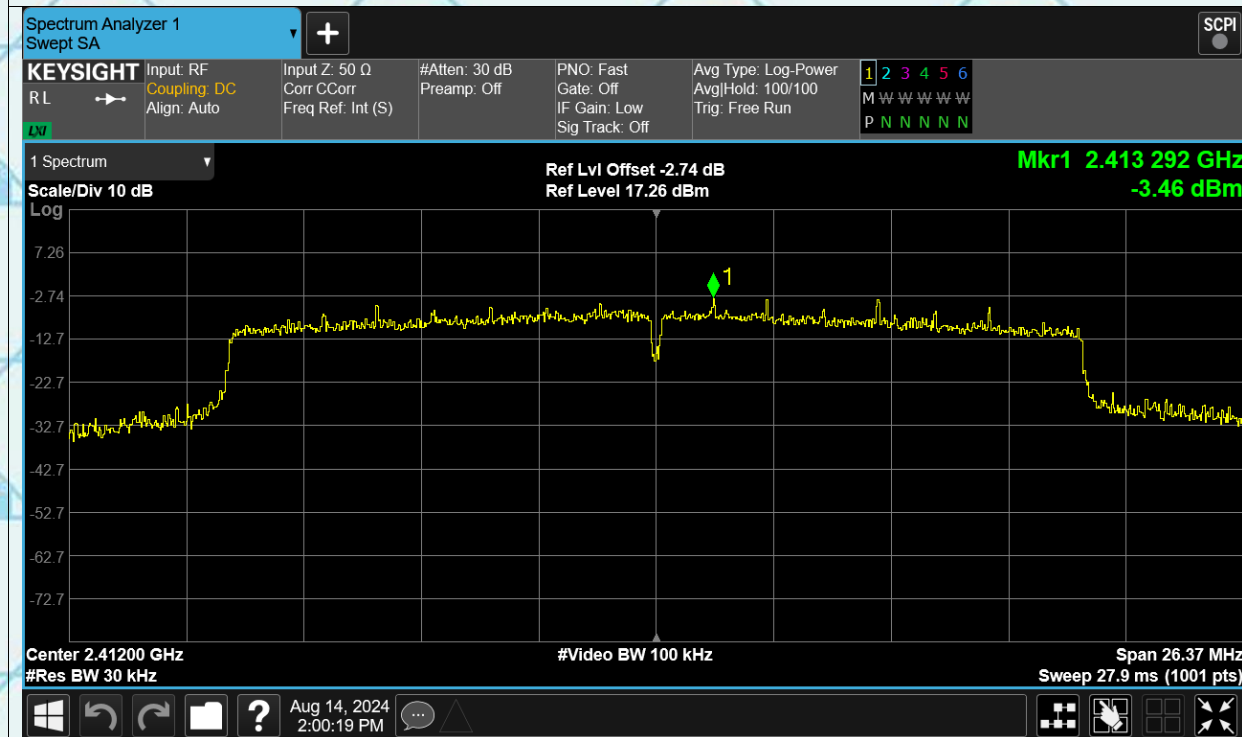


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

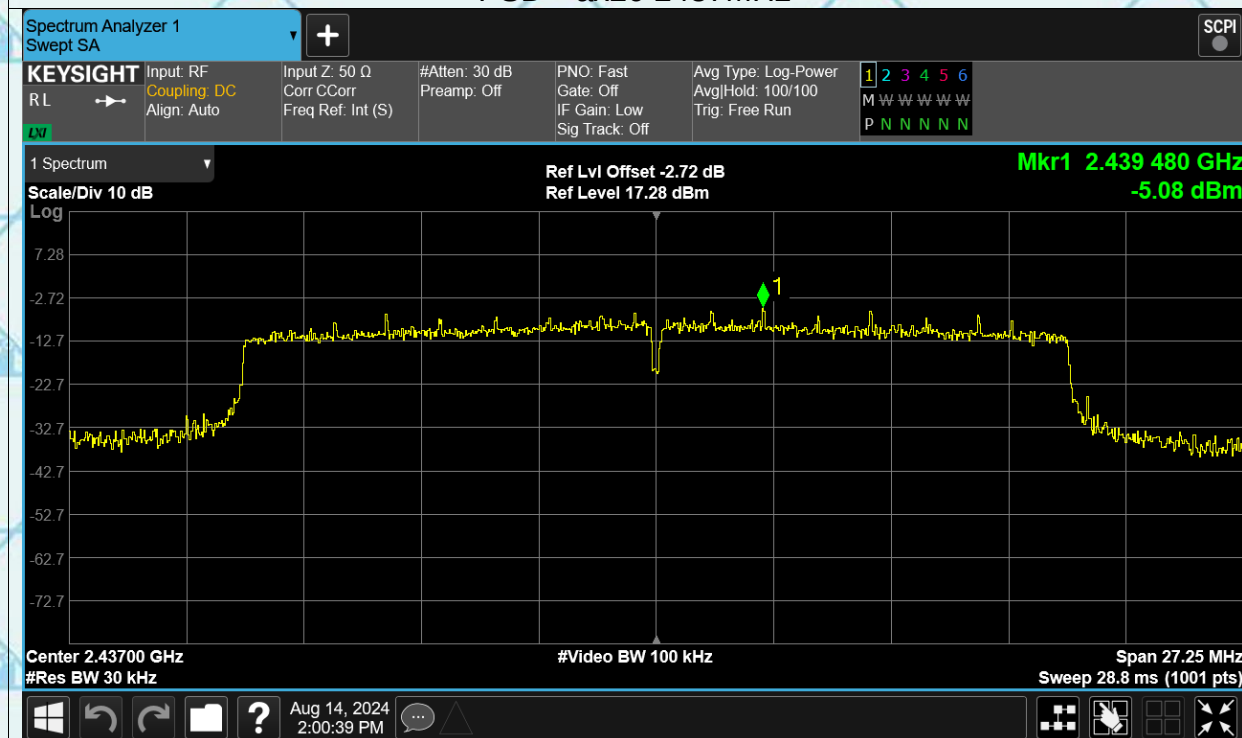
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## PSD ax20 2412MHz



## PSD ax20 2437MHz



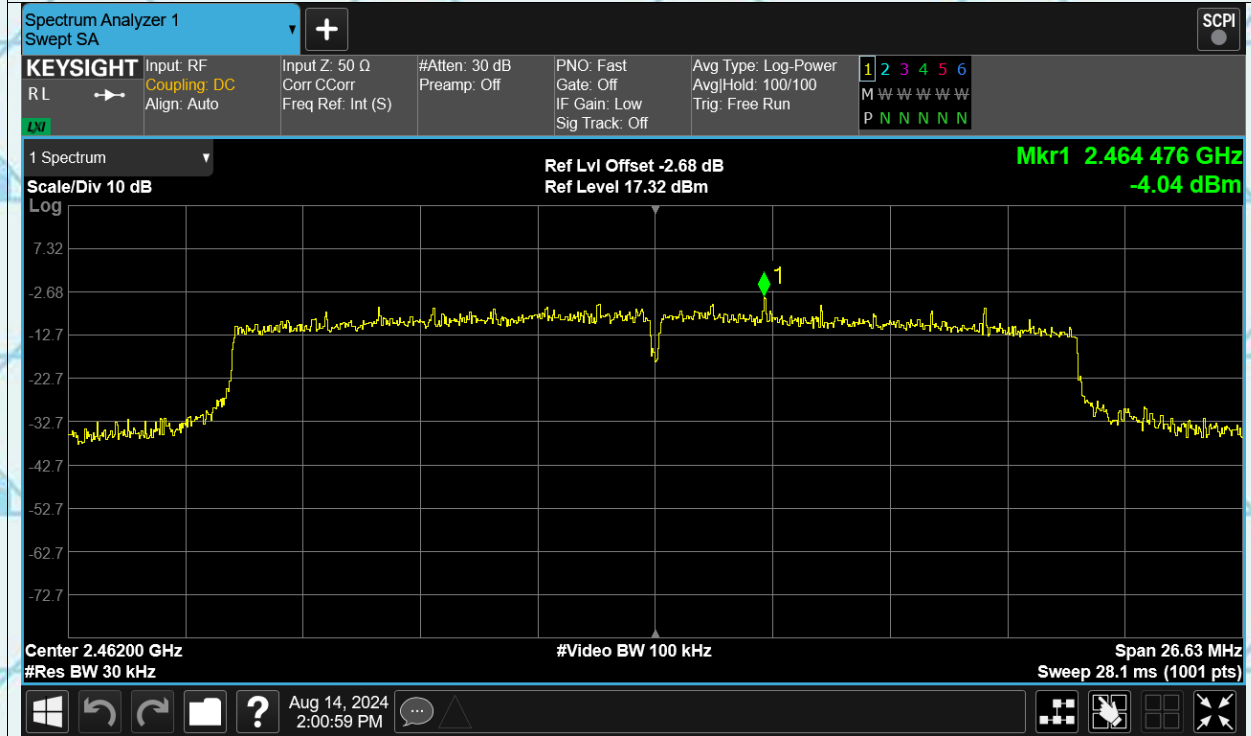


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

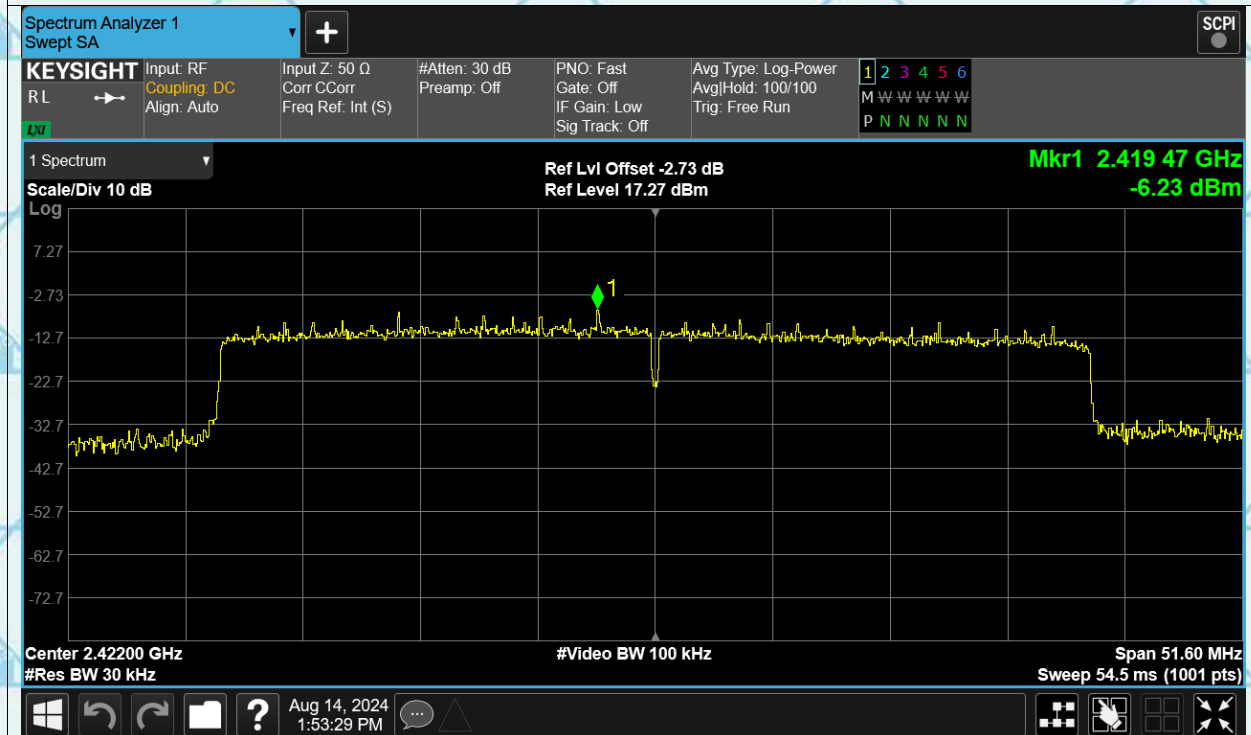
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## PSD ax20 2462MHz



## PSD ax40 2422MHz



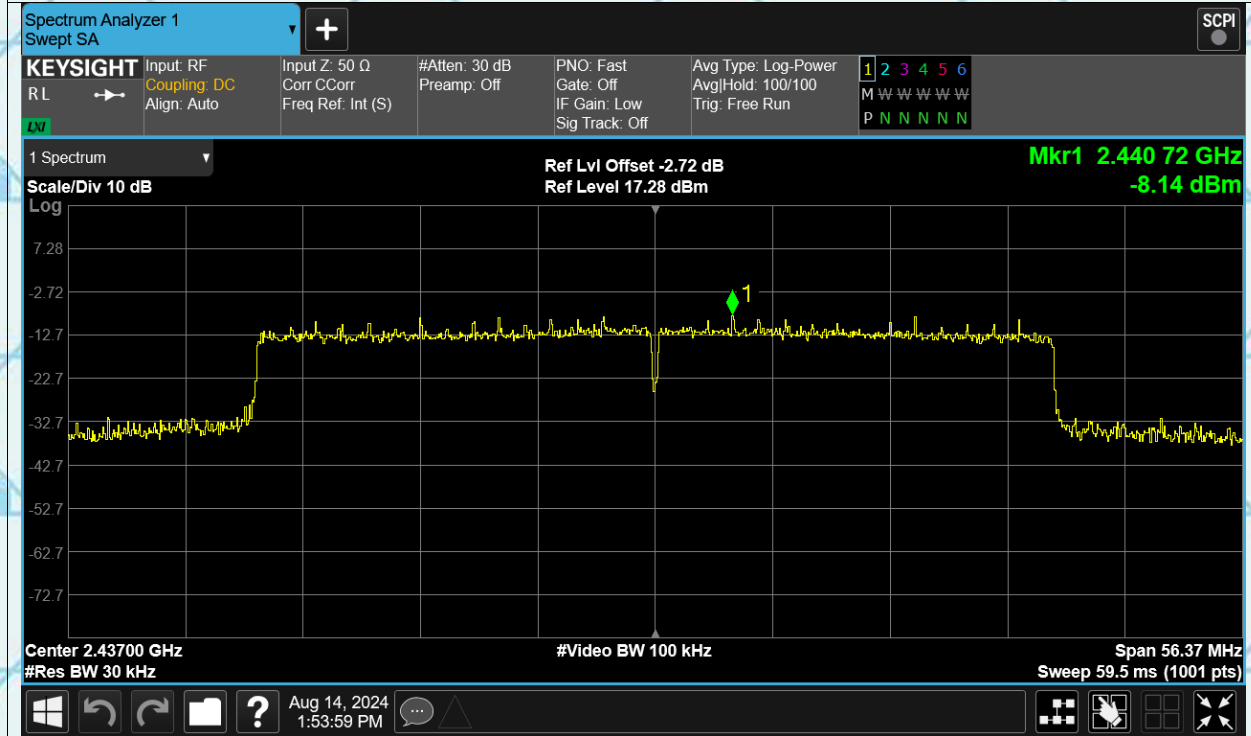


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

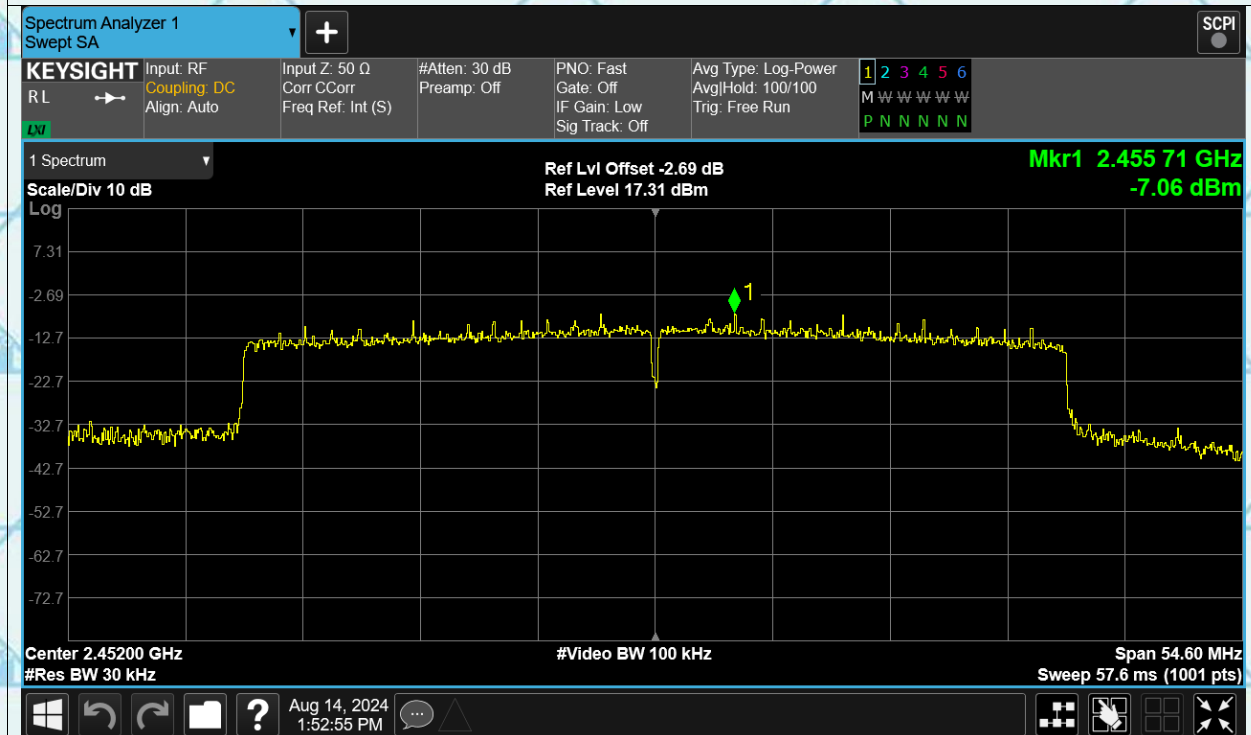
Certificate # 5768.01

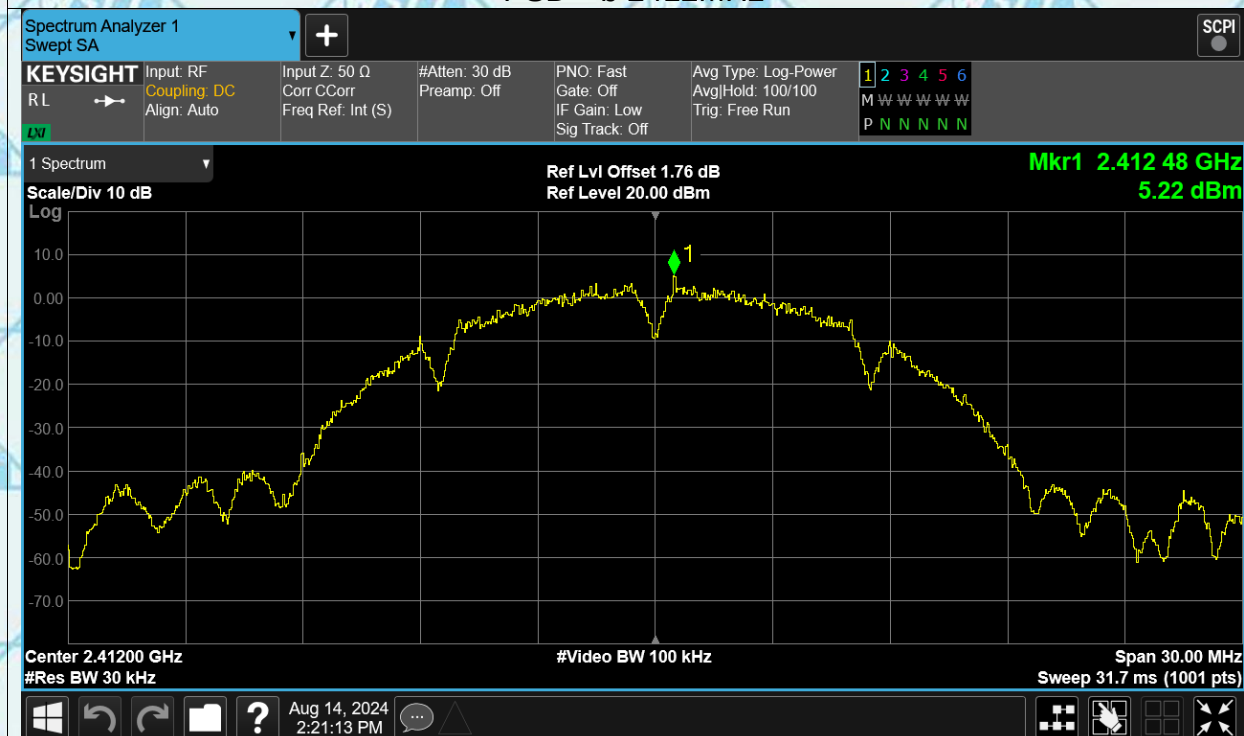
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## PSD ax40 2437MHz

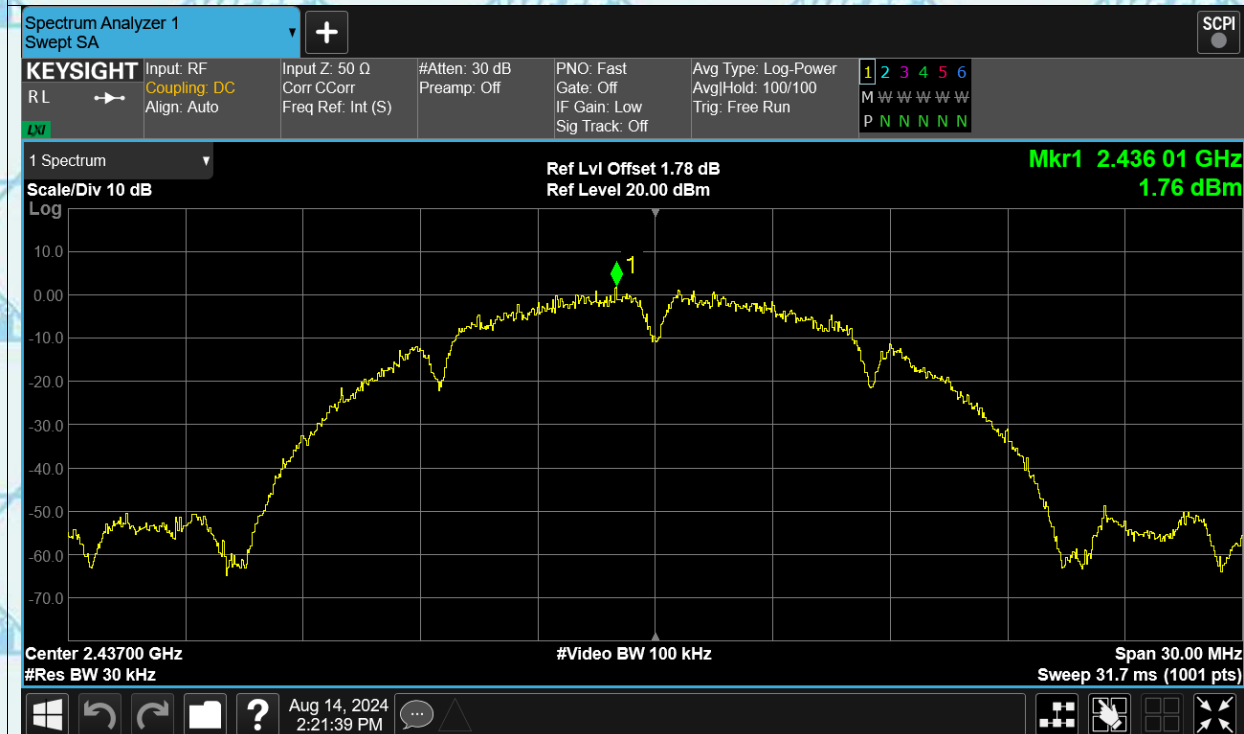


## PSD ax40 2452MHz



AUX Ant2 Test Graphs  
PSD b 2412MHz

## PSD b 2437MHz



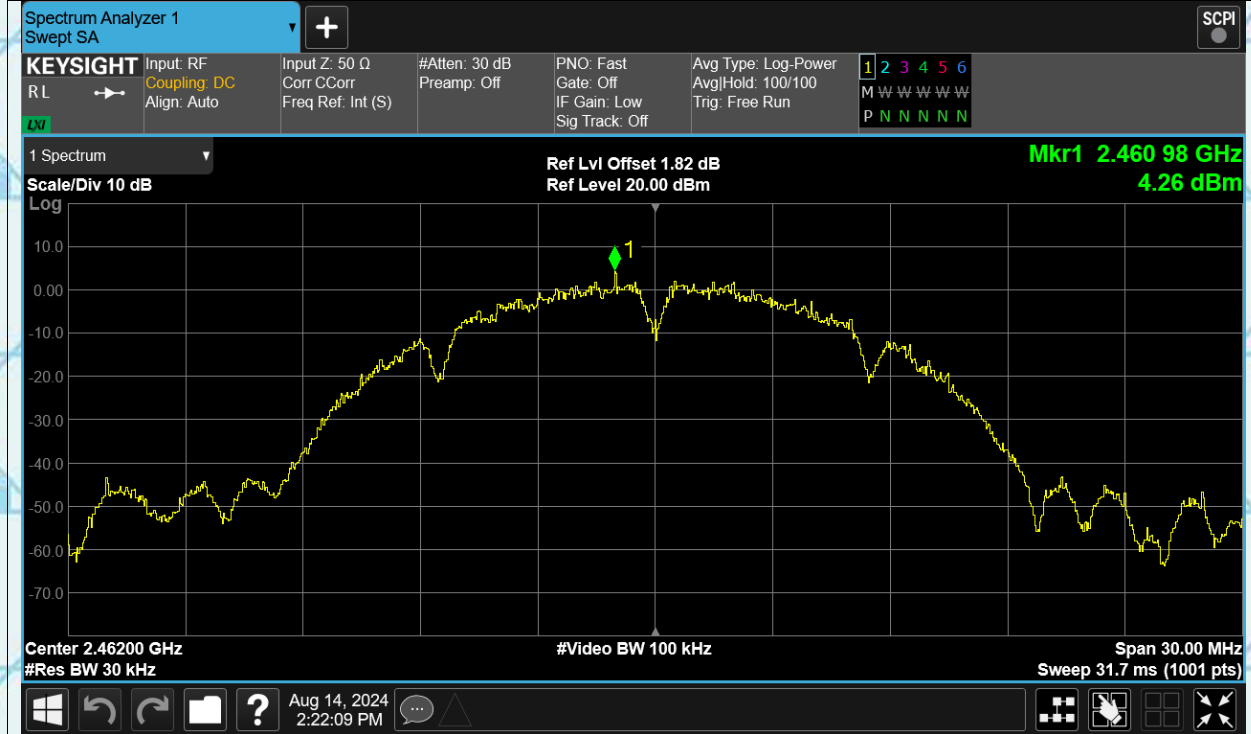


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

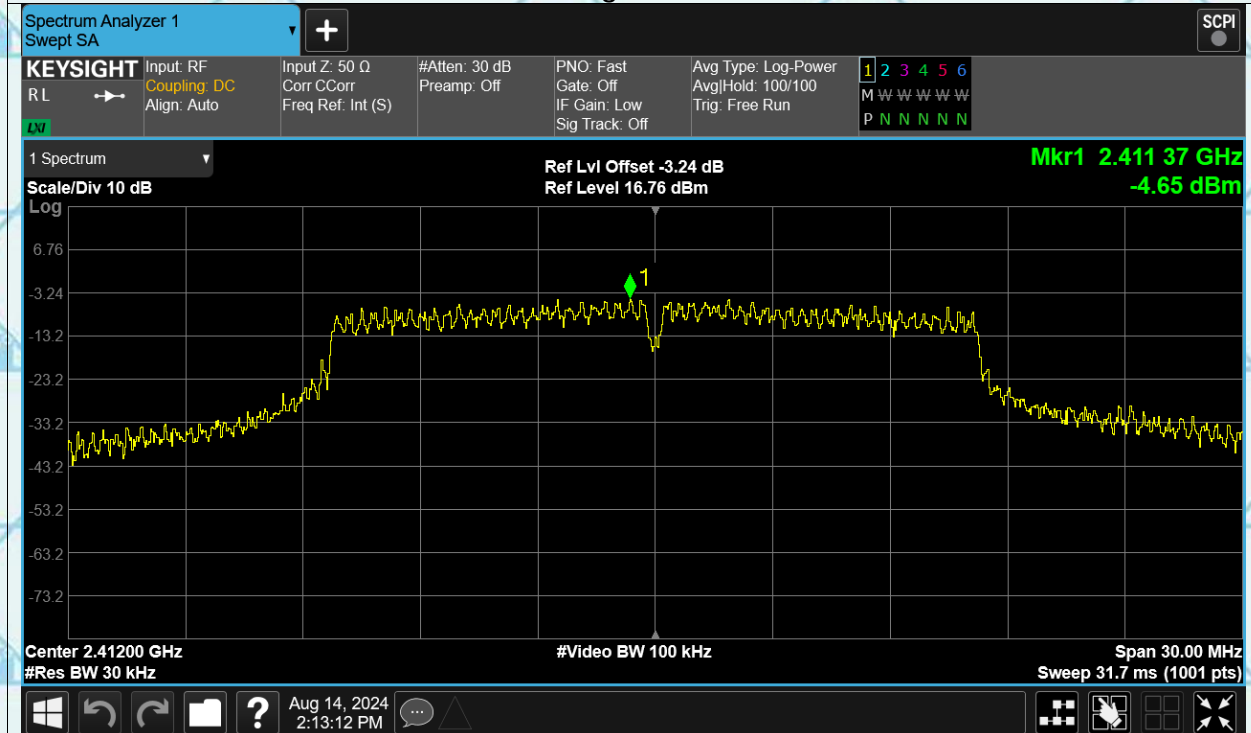
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## PSD b 2462MHz



## PSD g 2412MHz



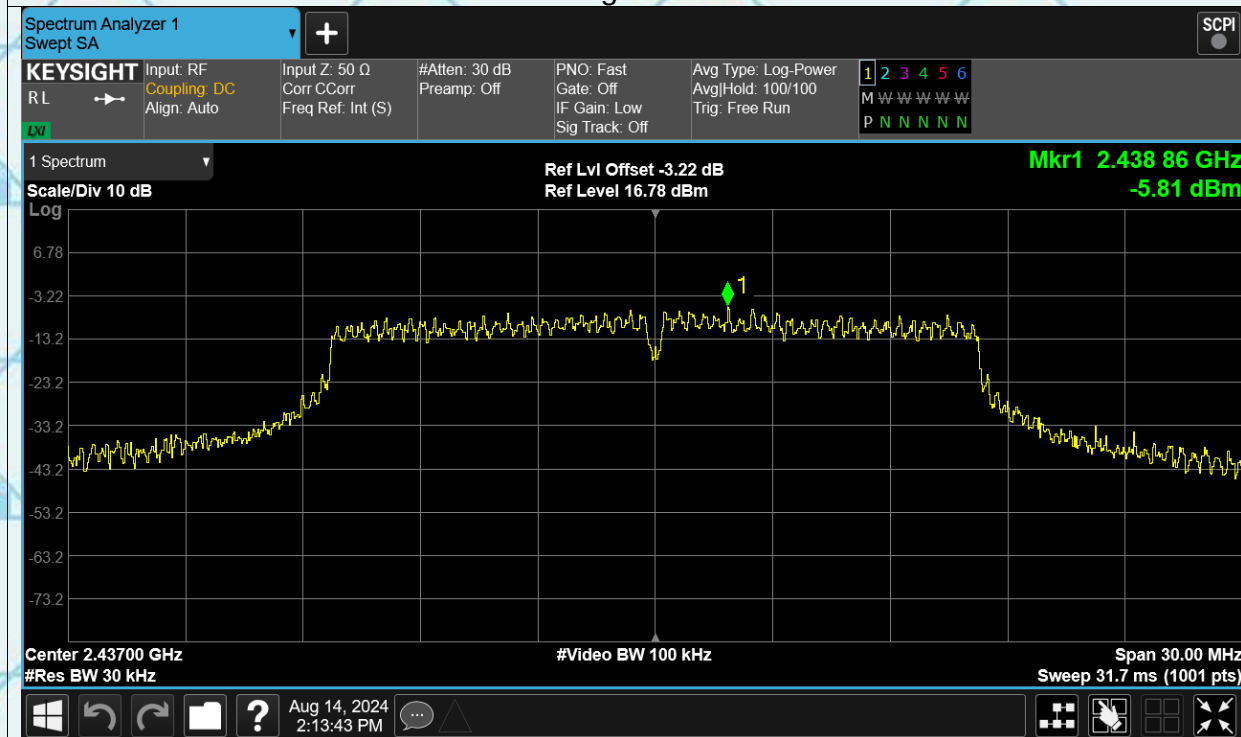


Report No.: WSCT-A2LA-R&amp;E240300015A-Wi-Fi1

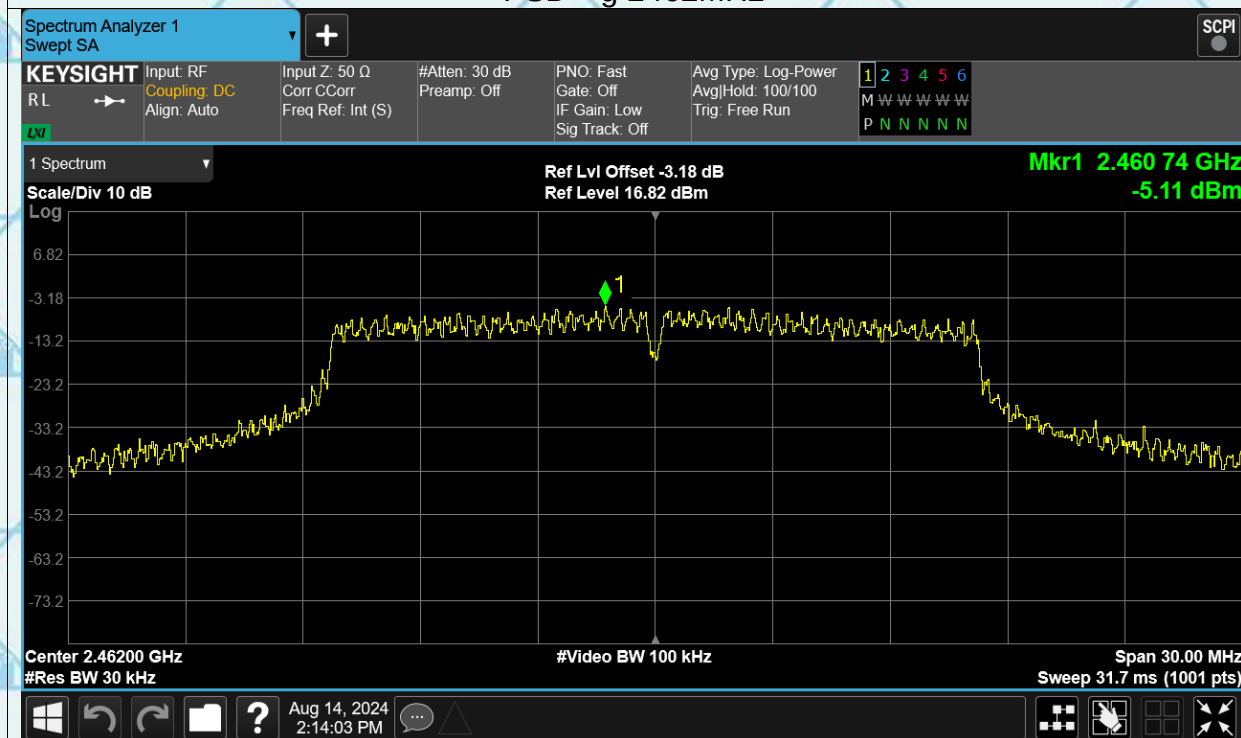
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## PSD g 2437MHz



## PSD g 2462MHz



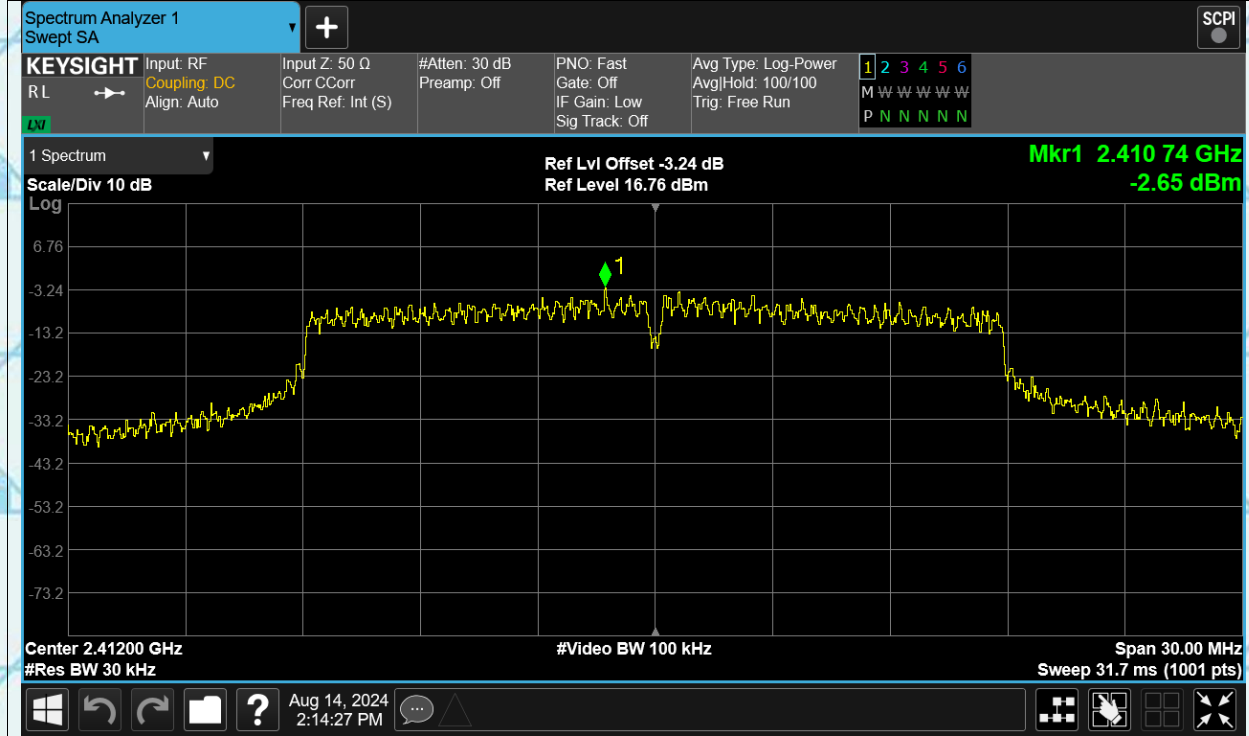


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## PSD n20 2412MHz



## PSD n20 2437MHz

