

## FCC/ISED Test Report

**Prepared for:** Garmin International, Inc.

**Address:** 1200 E. 151<sup>st</sup> Street  
Olathe, Kansas, 66062, USA

**Product:** A04913

**Test Report No:** R20251104-00-E17    **Rev:** C

**Approved by:**   
Fox Lane  
EMC Test Engineer

**DATE:** January 22, 2026

**Total Pages:** 77

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## REVISION PAGE

| Rev. No. | Date            | Description                                                                            |
|----------|-----------------|----------------------------------------------------------------------------------------|
| 0        | 9 January 2026  | Issued by FLane<br>Prepared by ESchmidt                                                |
| A        | 9 January 2026  | Corrected power level of High data rate wifi table – FL                                |
| B        | 20 January 2026 | Added FVIN, Firmware rev number, SW version, and test firm<br>registration number – FL |
| C        | 22 January 2026 | Updated Test Firm registration number – FL                                             |

|                                                                                  |                |                            |     |   |
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## 1.0 SUMMARY OF TEST RESULTS

The worst-case measurements were reported in this report. Summary of test results presented in this report correspond to the following standards/section(s):

- (1) US Code of Federal Regulations, Title 47, Part 15
- (2) ISED RSS-Gen, Issue 5
- (3) ISED RSS-247, Issue 4

| APPLIED STANDARDS AND REGULATIONS                                                                                      |                                |        |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------|
| Standard Section                                                                                                       | Test Type                      | Result |
| FCC Part 15.35<br>RSS Gen, Issue 5, Section 6.10                                                                       | Duty Cycle                     | Pass   |
| FCC Part 15.247(b)(3)<br>RSS-247 Issue 4 Section 6.3                                                                   | Peak output power              | Pass   |
| FCC Part 15.247(a)(2)<br>RSS-247 Issue 4 Section 6.3                                                                   | Bandwidth                      | Pass   |
| FCC Part 15.209<br>RSS-Gen Issue 5, Section 7.3                                                                        | Receiver Radiated Emissions    | Pass   |
| FCC Part 15.209 (restricted bands), 15.247 (unrestricted)<br>RSS-247 Issue 4 Section 6.6, RSS-Gen Issue 5, Section 8.9 | Transmitter Radiated Emissions | Pass   |
| FCC Part 15.247(e)<br>RSS-247 Issue 4 Section 6.3                                                                      | Power Spectral Density         | Pass   |
| FCC Part 15.209, 15.247(d)<br>RSS-247 Issue 4 Section 6.6                                                              | Band Edge Measurement          | Pass   |
| FCC Part 15.207<br>RSS-Gen Issue 5, Section 8.8                                                                        | Conducted Emissions            | N/A*   |

\*EUT is solely DC powered



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## 2.0 EUT DESCRIPTION

### 2.1 EQUIPMENT UNDER TEST

#### Summary and Operating Condition:

|                               |                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT</b>                    | A04913                                                                                                                                                                                                            |
| <b>FCC ID</b>                 | IPH-A04913                                                                                                                                                                                                        |
| <b>IC ID</b>                  | 1792A-A04913                                                                                                                                                                                                      |
| <b>HVIN</b>                   | A04913                                                                                                                                                                                                            |
| <b>FVIN</b>                   | N/A                                                                                                                                                                                                               |
| <b>Device FW Rev</b>          | 1.35                                                                                                                                                                                                              |
| <b>SW</b>                     | tm_rf_test_tool.exe<br>Version 0.20                                                                                                                                                                               |
| <b>EUT Received</b>           | 20 November 2025                                                                                                                                                                                                  |
| <b>EUT Tested</b>             | 21 November 2025- 26 November 2025                                                                                                                                                                                |
| <b>Serial No.</b>             | 3522637990 (Radiated Sample)<br>3522637995 (Conducted Sample)                                                                                                                                                     |
| <b>Operating Band</b>         | 2400 – 2483.5 MHz                                                                                                                                                                                                 |
| <b>Device Type</b>            | <input type="checkbox"/> GMSK <input type="checkbox"/> GFSK <input type="checkbox"/> BT BR <input type="checkbox"/> BT EDR 2MB <input type="checkbox"/> BT EDR 3MB<br><input checked="" type="checkbox"/> 802.11x |
| <b>Power Supply / Voltage</b> | External 12VDC Marine Battery                                                                                                                                                                                     |

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

### 2.2 DESCRIPTION OF TEST MODES

The operating range of the EUT is dependent on the device type found in section 2.1:

Data Rates:

| Modulation | Low/High Data rate |
|------------|--------------------|
| 802.11b    | 1MB/11MB           |
| 802.11g    | 6MB/54MB           |
| 802.11n    | MCS0/MCS7          |

For 802.11x Transmissions:

| Channel | Frequency |
|---------|-----------|
| Low     | 2412 MHz  |
| Mid     | 2437 MHz  |
| High    | 2462 MHz  |

These are the only representative channels tested in the frequency range according to FCC Part 15.31 and RSS-Gen Table A1. See the operational description for a list of all channel frequencies and designations.

### 2.3 DESCRIPTION OF SUPPORT UNITS

None

### 3.0 LABORATORY AND GENERAL TEST DESCRIPTION

#### 3.1 LABORATORY DESCRIPTION

All testing was performed at the following Facility:

The Nebraska Center for Excellence in Electronics (NCEE Labs)  
4740 Discovery Drive  
Lincoln, NE 68521

A2LA Certificate Number: 1953.01

FCC Accredited Test Site Designation No: US1060

FCC Test Firm Registration Number: 134067

Industry Canada Test Site Registration No: 4294A

NCC CAB Identification No: US0177

Environmental conditions varied slightly throughout the tests:

Relative humidity of  $35 \pm 4\%$

Temperature of  $22 \pm 3^\circ$  Celsius



#### 3.2 TEST PERSONNEL

| No. | PERSONNEL     | TITLE         | ROLE                        |
|-----|---------------|---------------|-----------------------------|
| 1   | Fox Lane      | Test Engineer | Testing, Review, and Report |
| 2   | Blake Winter  | Test Engineer | Testing                     |
| 3   | Ethan Schmidt | Test Engineer | Testing and Report          |

#### Notes:

All personnel are permanent staff members of NCEE Labs. No testing or review was sub-contracted or performed by sub-contracted personnel.

|                                                                                  |                |                            |     |   |
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### 3.3 TEST EQUIPMENT

| DESCRIPTION AND MANUFACTURER                              | MODEL NO.                      | SERIAL NO.           | LAST CALIBRATION DATE | CALIBRATION DUE DATE |
|-----------------------------------------------------------|--------------------------------|----------------------|-----------------------|----------------------|
| Keysight MXE Signal Analyzer (44GHz)                      | N9038A                         | MY59050109           | July 14, 2025         | July 15, 2027        |
| Keysight MXE Signal Analyzer (26.5GHz)                    | N9038A                         | MY56400083           | July 15, 2025         | July 16, 2027        |
| Keysight EXA Signal Analyzer                              | N9010A                         | MY56070862           | July 14, 2025         | July 14, 2027        |
| SunAR RF Motion                                           | JB1                            | A082918-1            | July 25, 2025         | July 25, 2026        |
| ETS EMCO Red Horn Antenna                                 | 3117                           | 00274578             | February 4, 2025      | February 4, 2026     |
| Com-Power LISN, Single Phase                              | LI-220C                        | 20070017             | July 15, 2025         | July 16, 2027        |
| Agilent Preamp*                                           | 87405A                         | 3207A01475           | July 18, 2025         | July 18, 2027        |
| ETS Red Preamplifier (Orange)*                            | 3115-PA                        | 00218576             | July 18, 2025         | July 18, 2027        |
| Trilithic High Pass Filter*                               | 6HC330                         | 23042                | July 18, 2025         | July 18, 2027        |
| Rohde & Schwarz Power Meter                               | NRP8S                          | 105033               | July 16, 2025         | July 17, 2027        |
| ETS – Lindgren- VSWR on 10m Chamber                       | 10m Semi-anechoic chamber-VSWR | 4740 Discovery Drive | May 15, 2024          | May 15, 2027         |
| NCEE Labs-NSA on 10m Chamber*                             | 10m Semi-anechoic chamber-NSA  | NCEE-001             | May 22, 2024          | May 22, 2026         |
| RF Cables (3m Ant. to Control room Bulkhead)              | MFR-57500                      | 1E3874               | July 18, 2025         | July 18, 2027        |
| RF Cable (antenna to 10m chamber bulkhead)*               | FSCM 64639                     | 01E3872              | July 18, 2025         | July 18, 2027        |
| RF Cable (10m chamber bulkhead to control room bulkhead)* | FSCM 64639                     | 01E3874              | July 18, 2025         | July 18, 2027        |
| RF Cable (control room bulkhead to test receiver)*        | FSCM 64639                     | 01F1206              | July 18, 2025         | July 18, 2027        |
| N connector bulkhead (10m chamber)*                       | PE9128                         | NCEEBH1              | July 18, 2025         | July 18, 2027        |
| N connector bulkhead (control room)*                      | PE9128                         | NCEEBH2              | July 18, 2025         | July 18, 2027        |
| TDK Emissions Lab Software                                | V11.25                         | 700307               | NA                    | NA                   |

\*Internal Characterization

#### Notes:

All equipment is owned by NCEE Labs and stored permanently at NCEE Labs facilities.

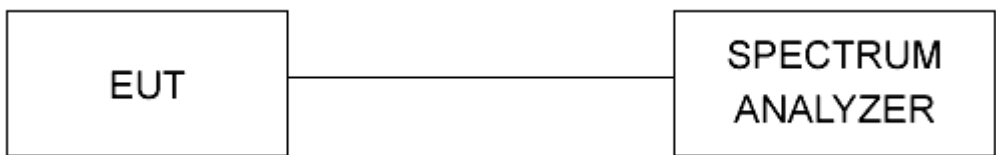
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### 3.4 GENERAL TEST PROCEDURE AND SETUP FOR RADIO MEASUREMENTS

Measurement type presented in this report (Please see the checked box below):

**Conducted** ☒

The conducted measurements were performed by connecting the output of the transmitter directly into a spectrum analyzer using an impedance matched cable and connector soldered to the EUT in place of the antenna. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.



**Figure 1 - Bandwidth Measurements Test Setup**

## Radiated ☒

All the radiated measurements were taken at a distance of 3m from the EUT. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

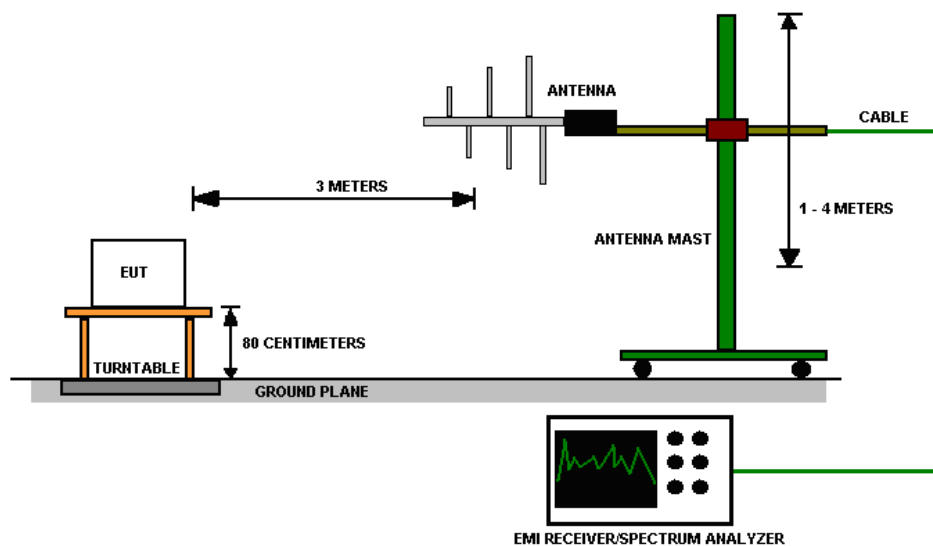


Figure 2 - Radiated Emissions Test Setup

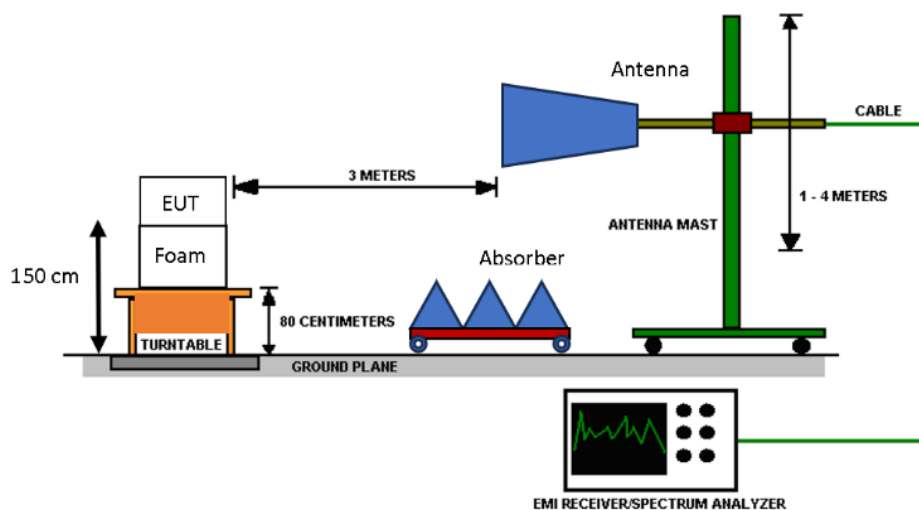


Figure 3 - Radiated Emissions Test Setup, >1GHz



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**4.0 RESULTS****DTS Radio Measurements Low Data Rate**

| CHANNEL | Transmitter | Occupied Bandwidth (kHz) | 6 dB Bandwidth (kHz) | PSD (dBm) | RESULT |
|---------|-------------|--------------------------|----------------------|-----------|--------|
| Low     | 802.11b     | 13948                    | 8848                 | -9.037    | PASS   |
| Mid     | 802.11b     | 14120                    | 8960                 | -10.942   | PASS   |
| High    | 802.11b     | 13774                    | 8774                 | -8.717    | PASS   |
| Low     | 802.11g     | 16414                    | 16490                | -10.936   | PASS   |
| Mid     | 802.11g     | 16471                    | 16520                | -12.705   | PASS   |
| High    | 802.11g     | 16397                    | 16460                | -11.983   | PASS   |
| Low     | 802.11n     | 17602                    | 17700                | -12.017   | PASS   |
| Mid     | 802.11n     | 17667                    | 17760                | -12.929   | PASS   |
| High    | 802.11n     | 17594                    | 17558                | -12.678   | PASS   |

Occupied Bandwidth = N/A; 6 dB Bandwidth Limit = 500 kHz

PSD Limit = 8 dBm

**Unrestricted Band-Edge Low Data Rate**

| CHANNEL | Mode    | Band edge /Measurement Frequency (MHz) | Relative Highest out of band level (dBm) | Relative Fundamental (dBm) | Delta (dB) | Min Delta (dB) | Result |
|---------|---------|----------------------------------------|------------------------------------------|----------------------------|------------|----------------|--------|
| Low     | 802.11b | 2400.00                                | 63.644                                   | 110.988                    | 47.34      | 30.00          | PASS   |
| Low     | 802.11g | 2400.00                                | 75.762                                   | 108.51                     | 32.75      | 30.00          | PASS   |
| Low     | 802.11n | 2400.00                                | 76.619                                   | 108.293                    | 31.67      | 30.00          | PASS   |
| High    | 802.11b | 2483.50                                | 45.841                                   | 111.136                    | 65.30      | 30.00          | PASS   |
| High    | 802.11g | 2483.50                                | 46.119                                   | 108.308                    | 62.19      | 30.00          | PASS   |
| High    | 802.11n | 2483.50                                | 45.12                                    | 108.252                    | 63.13      | 30.00          | PASS   |

**Radiated Peak Restricted Band-Edge Low Data Rate**

| CHANNEL | Mode    | Band edge /Measurement Frequency (MHz) | Highest out of band level (dB $\mu$ V/m @ 3m) | Measurement Type | Limit (dB $\mu$ V/m @ 3m) | Margin | Result |
|---------|---------|----------------------------------------|-----------------------------------------------|------------------|---------------------------|--------|--------|
| Low     | 802.11b | 2390.00                                | 54.272                                        | Peak             | 73.98                     | 19.71  | PASS   |
| Low     | 802.11g | 2390.00                                | 54.754                                        | Peak             | 73.98                     | 19.23  | PASS   |
| Low     | 802.11n | 2390.00                                | 54.07                                         | Peak             | 73.98                     | 19.91  | PASS   |
| High    | 802.11b | 2483.50                                | 54.116                                        | Peak             | 73.98                     | 19.86  | PASS   |
| High    | 802.11g | 2483.50                                | 56.858                                        | Peak             | 73.98                     | 17.12  | PASS   |
| High    | 802.11n | 2483.50                                | 57.686                                        | Peak             | 73.98                     | 16.29  | PASS   |

\*Limit shown is the peak limit taken from FCC Part 15.209



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**Average Restricted Band-Edge, Low Data Rate**

| Ch   | Mode    | Band edge /Measurement Frequency (MHz) | AVG Out of Band Level (dBuV/m @ 3m) | DCCF for Emissions (dB) | Corrected Out of band level (dBuV/m @ 3m) | Detector | Limit (dBuV/m @ 3m) | Margin | Result |
|------|---------|----------------------------------------|-------------------------------------|-------------------------|-------------------------------------------|----------|---------------------|--------|--------|
| Low  | 802.11b | 2390.00                                | 42.387                              | 0.000                   | 42.39                                     | Average  | 53.98               | 11.59  | PASS   |
| Low  | 802.11g | 2390.00                                | 42.514                              | 0.220                   | 42.73                                     | Average  | 53.98               | 11.25  | PASS   |
| Low  | 802.11n | 2390.00                                | 42.513                              | 0.184                   | 42.70                                     | Average  | 53.98               | 11.28  | PASS   |
| High | 802.11b | 2483.50                                | 42.293                              | 0.000                   | 42.29                                     | Average  | 53.98               | 11.69  | PASS   |
| High | 802.11g | 2483.50                                | 43.946                              | 0.220                   | 44.17                                     | Average  | 53.98               | 9.81   | PASS   |
| High | 802.11n | 2483.50                                | 44.082                              | 0.184                   | 44.27                                     | Average  | 53.98               | 9.71   | PASS   |

\*Limit shown is the average limit taken from FCC Part 15.209 \*\*Detector used was Avg, DCCF was added to Avg level to convert to true average

**Average Power Measurements**

| Modulation  | Channel | AVG Power Meter [AP] (dBm) | Duty Cycle [DC] | DCCF (for Power) | Corrected AVG Power [CAP] (dB) | Corrected AVG Power [CAP] (mW) |
|-------------|---------|----------------------------|-----------------|------------------|--------------------------------|--------------------------------|
| Wifi B 1MB  | Low     | 12.41                      | >98%            | 0                | 12.410                         | 17.418                         |
| Wifi B 1MB  | Mid     | 12.06                      | >98%            | 0                | 12.060                         | 16.069                         |
| Wifi B 1MB  | High    | 12.45                      | >98%            | 0                | 12.450                         | 17.579                         |
| Wifi G 6MB  | Low     | 13.43                      | 0.975           | -0.110           | 13.540                         | 22.594                         |
| Wifi G 6MB  | Mid     | 12.55                      | 0.975           | -0.110           | 12.660                         | 18.450                         |
| Wifi G 6MB  | High    | 13.11                      | 0.975           | -0.110           | 13.220                         | 20.989                         |
| Wifi N MCS0 | Low     | 13.17                      | 0.979           | -0.092           | 13.262                         | 21.194                         |
| Wifi N MCS0 | Mid     | 12.43                      | 0.979           | -0.092           | 12.522                         | 17.874                         |
| Wifi N MCS0 | High    | 12.98                      | 0.979           | -0.092           | 13.072                         | 20.287                         |

CAP = AP – DCCF

For more information regarding duty cycle and DCCF see section 4.3



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| DTS Radio Measurements, High Data Rate                    |             |                                        |                                          |                            |                     |                |        |
|-----------------------------------------------------------|-------------|----------------------------------------|------------------------------------------|----------------------------|---------------------|----------------|--------|
| CHANNEL                                                   | Transmitter | Occupied Bandwidth (kHz)               | 6 dB Bandwidth (kHz)                     | PSD (dBm)                  | RESULT              |                |        |
| Low                                                       | 802.11b     | 13764                                  | 9392                                     | -9.46                      | PASS                |                |        |
| Mid                                                       | 802.11b     | 13909                                  | 9659                                     | -10.007                    | PASS                |                |        |
| High                                                      | 802.11b     | 13622                                  | 8920                                     | -9.977                     | PASS                |                |        |
| Low                                                       | 802.11g     | 16396                                  | 16430                                    | -11.991                    | PASS                |                |        |
| Mid                                                       | 802.11g     | 16443                                  | 16470                                    | -12.088                    | PASS                |                |        |
| High                                                      | 802.11g     | 16379                                  | 16400                                    | -12.345                    | PASS                |                |        |
| Low                                                       | 802.11n     | 17540                                  | 17290                                    | -16.489                    | PASS                |                |        |
| Mid                                                       | 802.11n     | 17607                                  | 17660                                    | -12.778                    | PASS                |                |        |
| High                                                      | 802.11n     | 17506                                  | 16640                                    | -11.812                    | PASS                |                |        |
| Occupied Bandwidth = N/A; 6 dB Bandwidth Limit =500 kHz   |             |                                        |                                          | PSD Limit = 8 dBm          |                     |                |        |
| Unrestricted Band-Edge, High Data Rate                    |             |                                        |                                          |                            |                     |                |        |
| CHANNEL                                                   | Mode        | Band edge /Measurement Frequency (MHz) | Relative Highest out of band level (dBm) | Relative Fundamental (dBm) | Delta (dB)          | Min Delta (dB) | Result |
| Low                                                       | 802.11b     | 2400.00                                | 63.9                                     | 110.392                    | 46.49               | 30.00          | PASS   |
| Low                                                       | 802.11g     | 2400.00                                | 75.334                                   | 108.551                    | 33.22               | 30.00          | PASS   |
| Low                                                       | 802.11n     | 2400.00                                | 72.547                                   | 103.997                    | 31.45               | 30.00          | PASS   |
| High                                                      | 802.11b     | 2483.50                                | 45.241                                   | 111.081                    | 65.84               | 30.00          | PASS   |
| High                                                      | 802.11g     | 2483.50                                | 45.416                                   | 108.46                     | 63.04               | 30.00          | PASS   |
| High                                                      | 802.11n     | 2483.50                                | 46.043                                   | 108.464                    | 62.42               | 30.00          | PASS   |
| Radiated Peak Restricted Band-Edge, High Data Rate        |             |                                        |                                          |                            |                     |                |        |
| CHANNEL                                                   | Mode        | Band edge /Measurement Frequency (MHz) | Highest out of band level (dBμV/m @ 3m)  | Measurement Type           | Limit (dBμV/m @ 3m) | Margin         | Result |
| Low                                                       | 802.11b     | 2390.00                                | 54.035                                   | Peak                       | 73.98               | 19.95          | PASS   |
| Low                                                       | 802.11g     | 2390.00                                | 55.017                                   | Peak                       | 73.98               | 18.96          | PASS   |
| Low                                                       | 802.11n     | 2390.00                                | 54.657                                   | Peak                       | 73.98               | 19.32          | PASS   |
| High                                                      | 802.11b     | 2483.50                                | 54.769                                   | Peak                       | 73.98               | 19.21          | PASS   |
| High                                                      | 802.11g     | 2483.50                                | 55.541                                   | Peak                       | 73.98               | 18.44          | PASS   |
| High                                                      | 802.11n     | 2483.50                                | 57.15                                    | Peak                       | 73.98               | 16.83          | PASS   |
| *Limit shown is the peak limit taken from FCC Part 15.209 |             |                                        |                                          |                            |                     |                |        |



|                |                            |     |   |
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#### Average Restricted Band-Edge, High Data Rate

| Ch   | Mode    | Band edge /Measurement Frequency (MHz) | Peak Out of Band Level (dBuV/m @ 3m) | DCCF for Emissions (dB) | Corrected Out of band level (dBuV/m @ 3m) | Detector | Limit (dBuV/m @ 3m) | Margin | Result |
|------|---------|----------------------------------------|--------------------------------------|-------------------------|-------------------------------------------|----------|---------------------|--------|--------|
| Low  | 802.11b | 2390.00                                | 42.411                               | 0.238                   | 42.65                                     | Avg      | 53.98               | 11.33  | PASS   |
| Low  | 802.11g | 2390.00                                | 42.434                               | 1.587                   | 44.02                                     | Avg      | 53.98               | 9.96   | PASS   |
| Low  | 802.11n | 2390.00                                | 42.409                               | 1.650                   | 44.06                                     | Avg      | 53.98               | 9.92   | PASS   |
| High | 802.11b | 2483.50                                | 43.251                               | 0.238                   | 43.49                                     | Avg      | 53.98               | 10.49  | PASS   |
| High | 802.11g | 2483.50                                | 43.873                               | 1.587                   | 45.46                                     | Avg      | 53.98               | 8.52   | PASS   |
| High | 802.11n | 2483.50                                | 43.876                               | 1.650                   | 45.53                                     | Avg      | 53.98               | 8.45   | PASS   |

\*Limit shown is the average limit taken from FCC Part 15.209 \*\*Detector used was Peak, DCCF was subtracted from Peak level to convert to average

#### Average Power Measurements, High Data Rate

| Modulation  | Channel | AVG Power Meter [AP] (dBm) | Duty Cycle [DC] | DCCF (for Power) | Corrected AVG Power [CAP] (dB) | Corrected AVG Power [CAP] (mW) |
|-------------|---------|----------------------------|-----------------|------------------|--------------------------------|--------------------------------|
| Wifi B 11MB | Low     | 13.03                      | 0.973           | -0.119           | 13.149                         | 20.649                         |
| Wifi B 11MB | Mid     | 12.24                      | 0.973           | -0.119           | 12.359                         | 17.215                         |
| Wifi B 11MB | High    | 12.47                      | 0.973           | -0.119           | 12.589                         | 18.151                         |
| Wifi G 54MB | Low     | 12.68                      | 0.833           | -0.794           | 13.474                         | 22.254                         |
| Wifi G 54MB | Mid     | 12.00                      | 0.833           | -0.794           | 12.794                         | 19.028                         |
| Wifi G 54MB | High    | 12.50                      | 0.833           | -0.794           | 13.294                         | 21.350                         |
| Wifi N MCS7 | Low     | 12.53                      | 0.827           | -0.825           | 13.355                         | 21.652                         |
| Wifi N MCS7 | Mid     | 11.82                      | 0.827           | -0.825           | 12.645                         | 18.387                         |
| Wifi N MCS7 | High    | 12.34                      | 0.827           | -0.825           | 13.165                         | 20.725                         |

CAP = AP – DCCF  
For more information regarding duty cycle and DCCF see section 4.3



|                |                            |     |   |
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#### 4.1 OUTPUT POWER

**Test Method:**

All output power measurements were performed using section 11.9.2.3.1 from ANSI C63.10-2020

**Limits of power measurements:**

**For FCC Part 15.247 Device:**

The maximum allowed output power is 30 dBm.

**Test procedures:**

Details can be found in section 3.4 of this report.

**Deviations from test standard:**

No deviation.

**Test setup:**

The device was directly connected to a calibrated average power meter.

**EUT operating conditions:**

Details can be found in section 2.1 of this report.

**Test results:**

**Pass**

**Comments:**

1. All the measurements were found to be compliant.
2. The measurements are listed in the tables in section 4.0.



|                |                            |     |   |
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## 4.2 BANDWIDTH

### Test Method:

All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

### Limits of bandwidth measurements:

#### For FCC Part 15.247 Device:

The 99% occupied bandwidth is for informational purposes only. The 6dB bandwidth of the signal must be greater than 500 kHz.

### Test procedures:

Details can be found in section 3.4 of this report.

### Deviations from test standard:

No deviation.

### Test setup:

Test setup details can be found in section 3.4 of this report.

### EUT operating conditions:

Details can be found in section 2.1 of this report.

### Test results:

## Pass

#### Comments:

1. All the bandwidth plots can be found in Appendix C.
2. All the measurements were found to be compliant.
3. The measurements are listed in the tables in section 4.0.

### 4.3 DUTY CYCLE

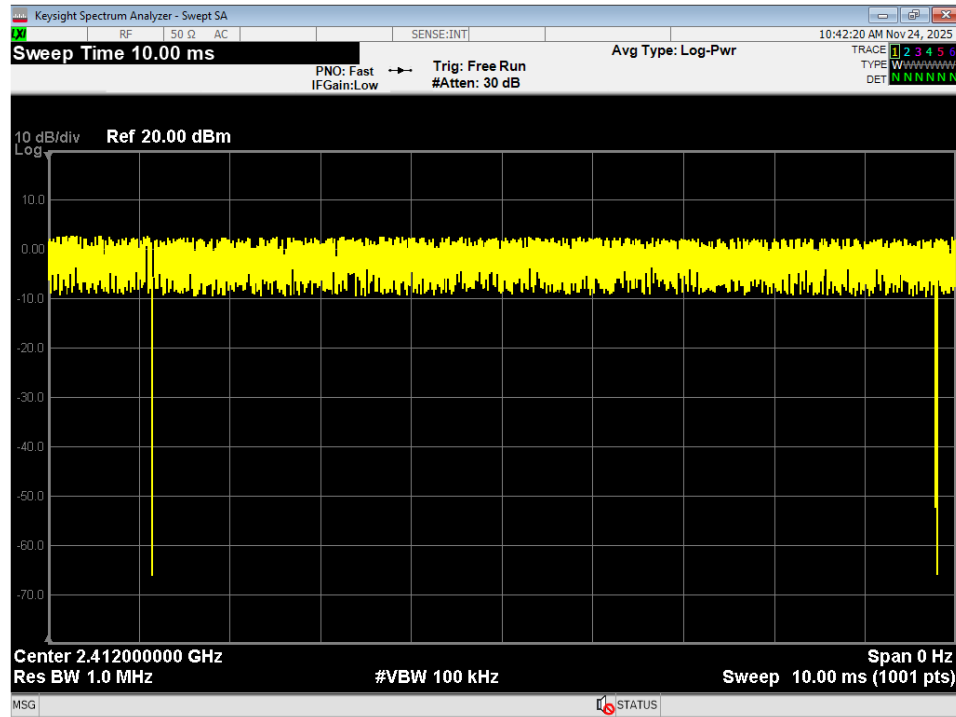


Figure 4 – Duty Cycle, 802.11b 1MB

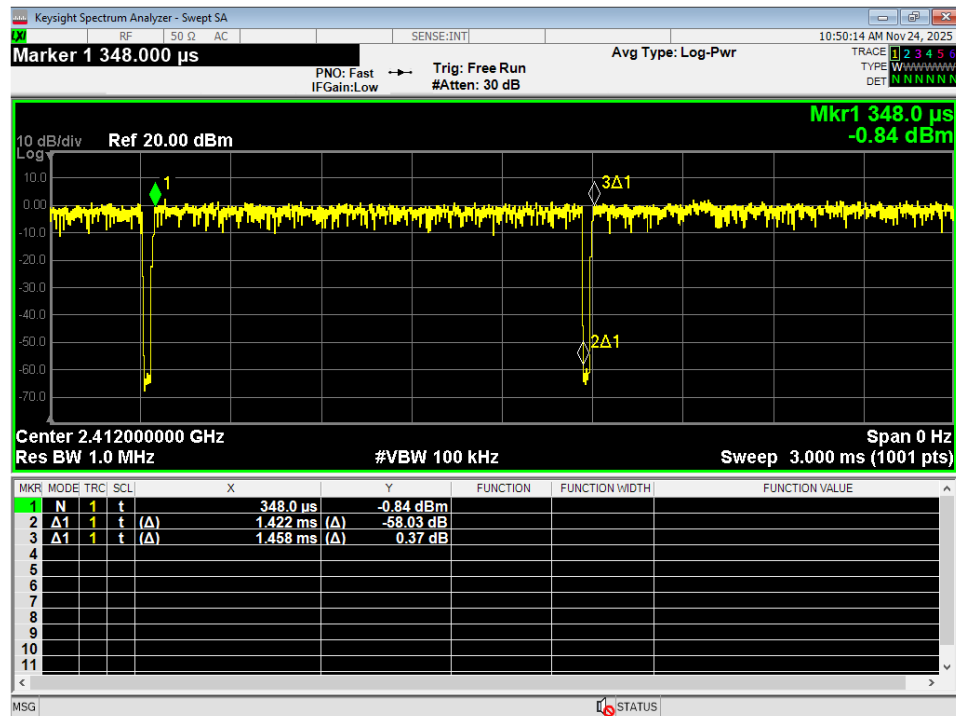


Figure 5 – Duty Cycle, 802.11G 6MB

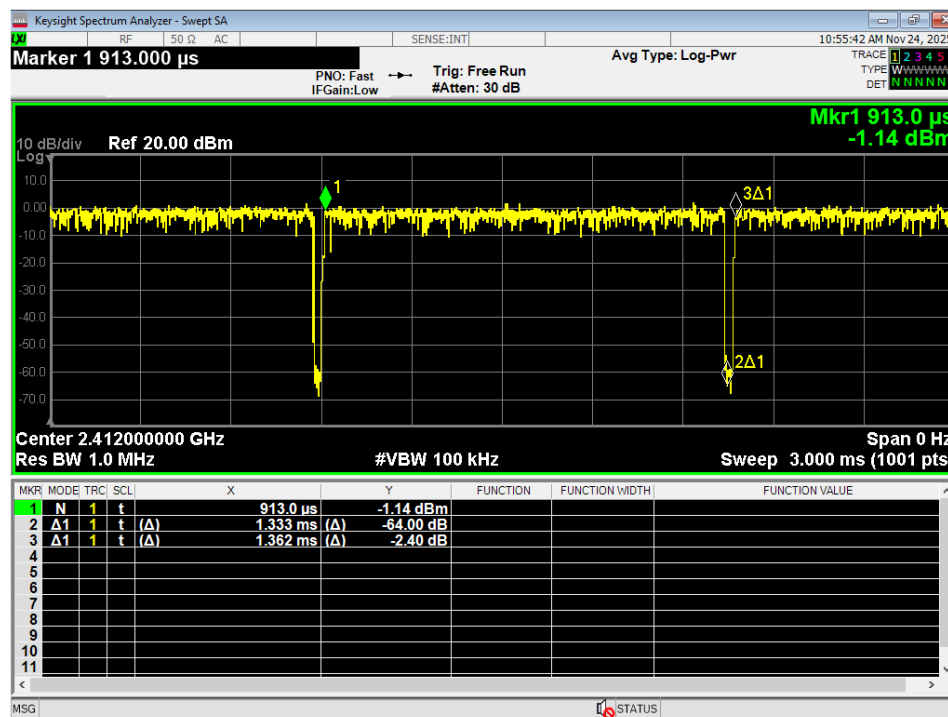


Figure 6 – Duty Cycle, 802.11N MCS0

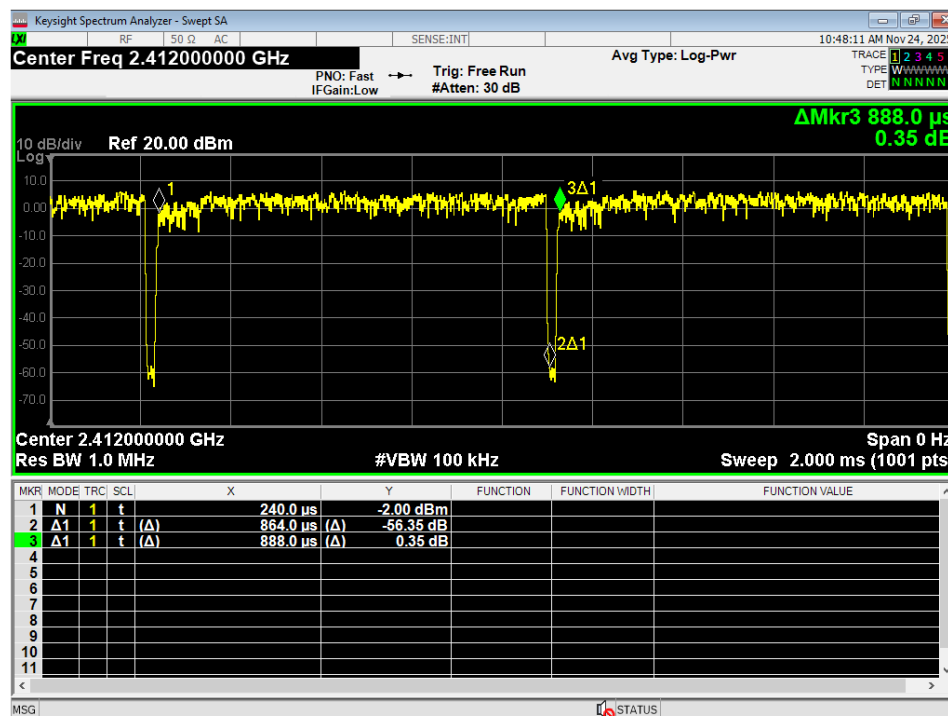


Figure 7 – Duty Cycle, 802.11b 11MB

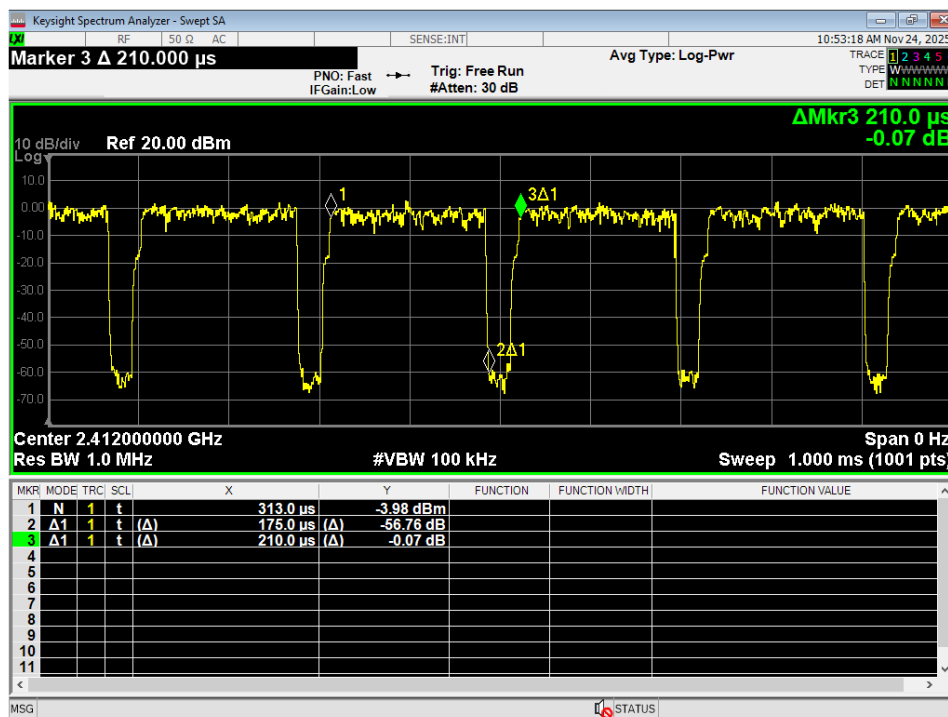


Figure 8 – Duty Cycle, 802.11G 54MB

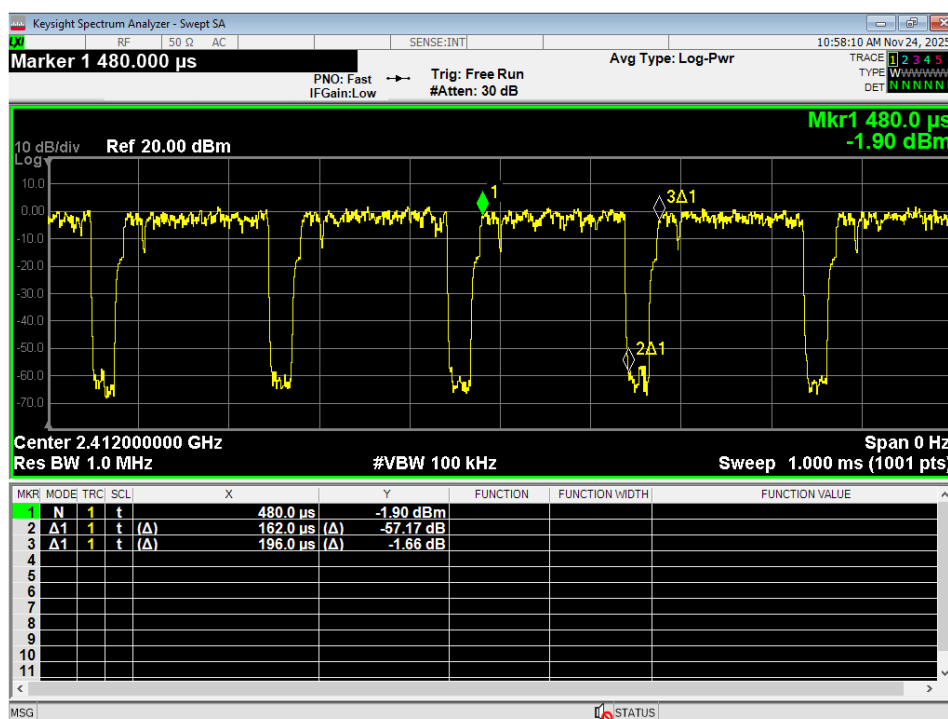


Figure 9 – Duty Cycle, 802.11N MCS7

|                                                                                  |                |                            |     |   |
|----------------------------------------------------------------------------------|----------------|----------------------------|-----|---|
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The following duty cycle and duty cycle correction factors (DCCF) were used where applicable.

Duty Cycle correction factor (for emissions) =  $20 \cdot \log(1/\text{Duty cycle})$

Duty Cycle correction factor (for power) =  $10 \cdot \log(1/\text{Duty Cycle})$

Duty cycle for Wi-Fi B 1MB: >98%

Duty cycle correction factor (for emissions) for Wi-Fi B 1MB: 0dB

Duty Cycle correction factor (for power) for Wi-Fi B 1MB: 0dB

Duty cycle for Wi-Fi G 6MB: 0.975

Duty cycle correction factor (for emissions) for Wi-Fi G 6MB: 0.220dB

Duty Cycle correction factor (for power) for Wi-Fi G 6MB: 0.110dB

Duty cycle for Wi-Fi N MCS0: 0.979

Duty cycle correction factor (for emissions) for Wi-Fi N MCS0: 0.184dB

Duty Cycle correction factor (for power) for Wi-Fi N MCS0: 0.092dB

Duty cycle for Wi-Fi B 11MB: 0.973

Duty cycle correction factor (for emissions) for Wi-Fi B 11MB: 0.238dB

Duty Cycle correction factor (for power) for Wi-Fi B 11MB: 0.119dB

Duty cycle for Wi-Fi G 54MB: 0.833

Duty cycle correction factor (for emissions) for Wi-Fi G 54MB: 1.587dB

Duty Cycle correction factor (for power) for Wi-Fi G 54MB: 0.794dB

Duty cycle for Wi-Fi N MCS7: 0.827

Duty cycle correction factor (for emissions) for Wi-Fi N MCS7: 1.650dB

Duty Cycle correction factor (for power) for Wi-Fi N MCS7: 0.825dB

#### 4.4 RADIATED EMISSIONS

**Test Method:**

ANSI C63.10-2020, Section 6.5, 6.6

**Limits for radiated emissions measurements:**

Emissions radiated outside of the specified bands shall be applied to the limits in 15.209 as followed:

| FREQUENCIES<br>(MHz) | FIELD<br>STRENGTH<br>( $\mu$ V/m) | MEASUREMENT<br>DISTANCE (m) |
|----------------------|-----------------------------------|-----------------------------|
| 0.009-0.490          | 2400/F(kHz)                       | 300                         |
| 0.490-1.705          | 24000/F(kHz)                      | 30                          |
| 1.705-30.0           | 30                                | 3                           |
| 30-88                | 100                               | 3                           |
| 88-216               | 150                               | 3                           |
| 216-960              | 200                               | 3                           |
| Above 960            | 500                               | 3                           |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) =  $20 * \log * \text{Emission level } (\mu\text{V/m})$ .
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits by more than 20dB under any condition of modulation.



|                |                            |     |   |
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**Test procedures:**

- a. The EUT was placed on the top of a rotating table above the ground plane in a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The table was 0.8m high for measurements from 30MHz-1Ghz and 1.5m for measurements from 1GHz and higher.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna was a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are used to make the measurement.
- d. For each suspected emission, the EUT was arranged to maximize its emissions and then the antenna height was varied from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum emission reading.
- e. The test-receiver system was set to use a peak detector with a specified resolution bandwidth. For spectrum analyzer measurements, the composite maximum of several analyzer sweeps was used for final measurements.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise, the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The EUT was maximized in all 3 orthogonal positions. The results are presented for the axis that had the highest emissions.

**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequencies below 1GHz.
2. The resolution bandwidth 1 MHz for all measurements and at frequencies above 1GHz, A peak detector was used for all measurements above 1GHz. Measurements were made with an EMI Receiver.

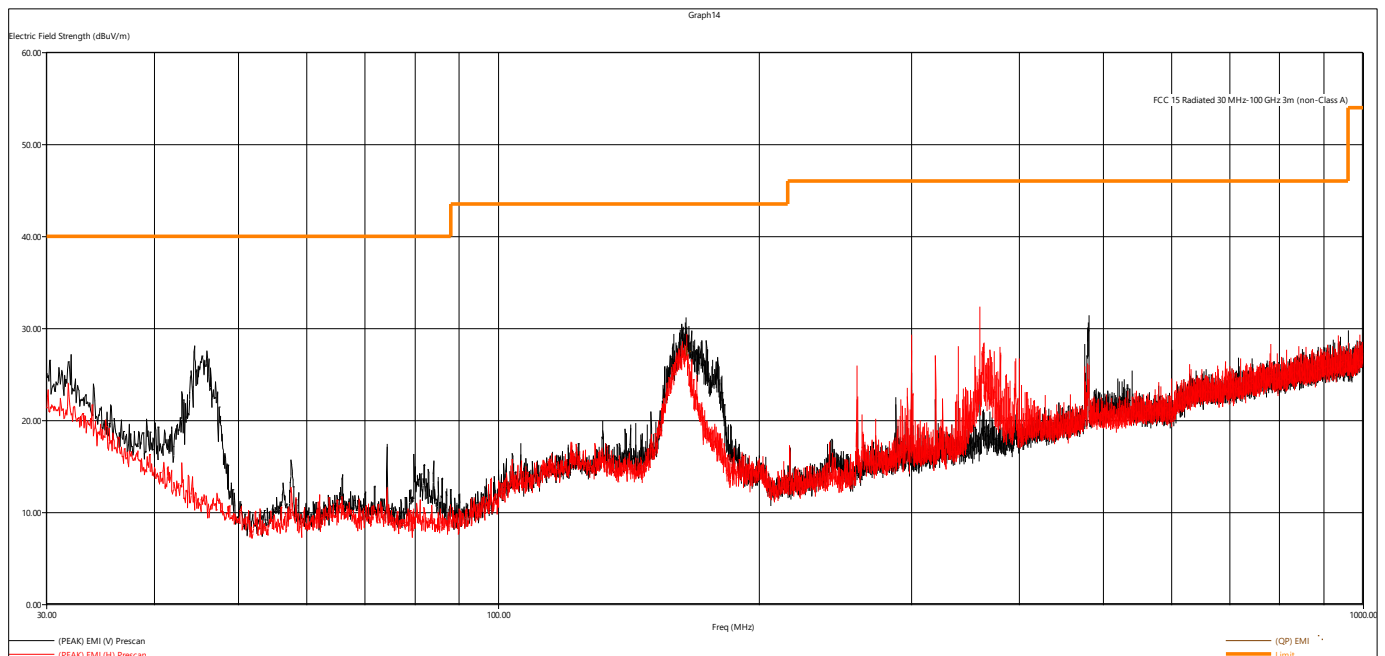
**Deviations from test standard:**

No deviation.

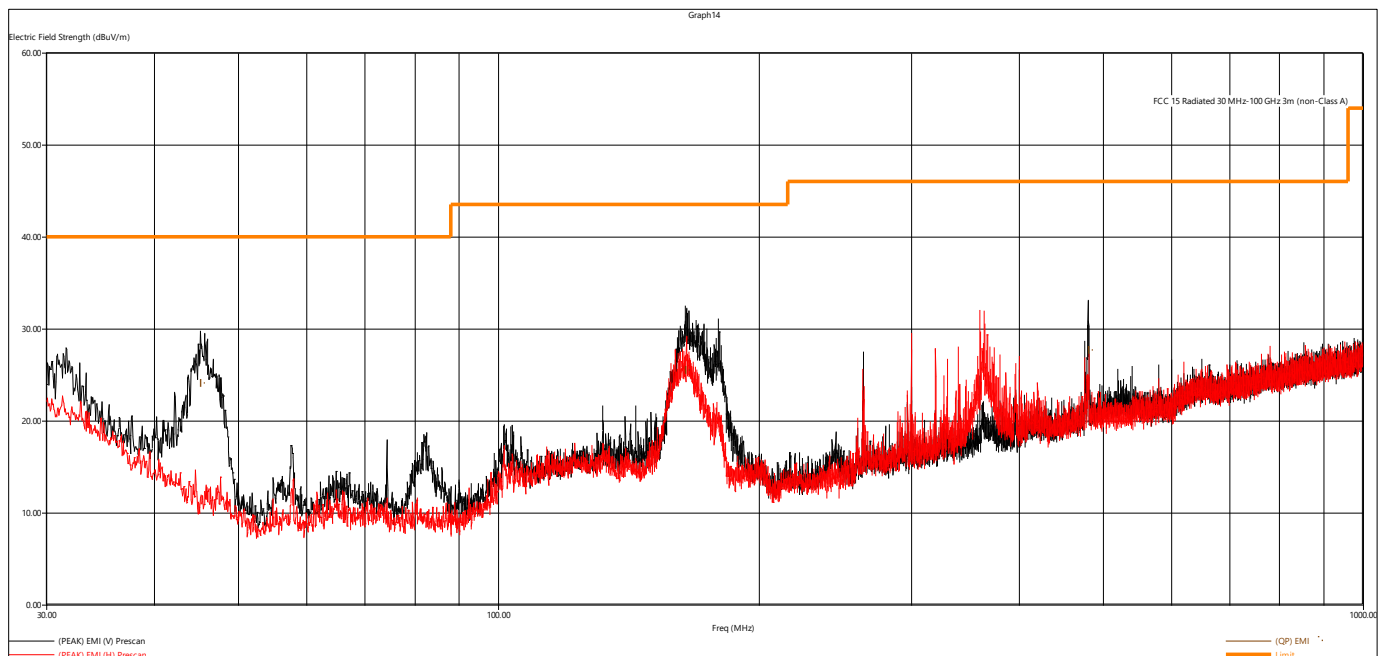
**EUT operating conditions**

Details can be found in section 2.1 of this report.

**Test results:**



**Figure 10 - Radiated Emissions Plot, Receive**



**Figure 11 - Radiated Emissions Plot, 802.11b 1MB**

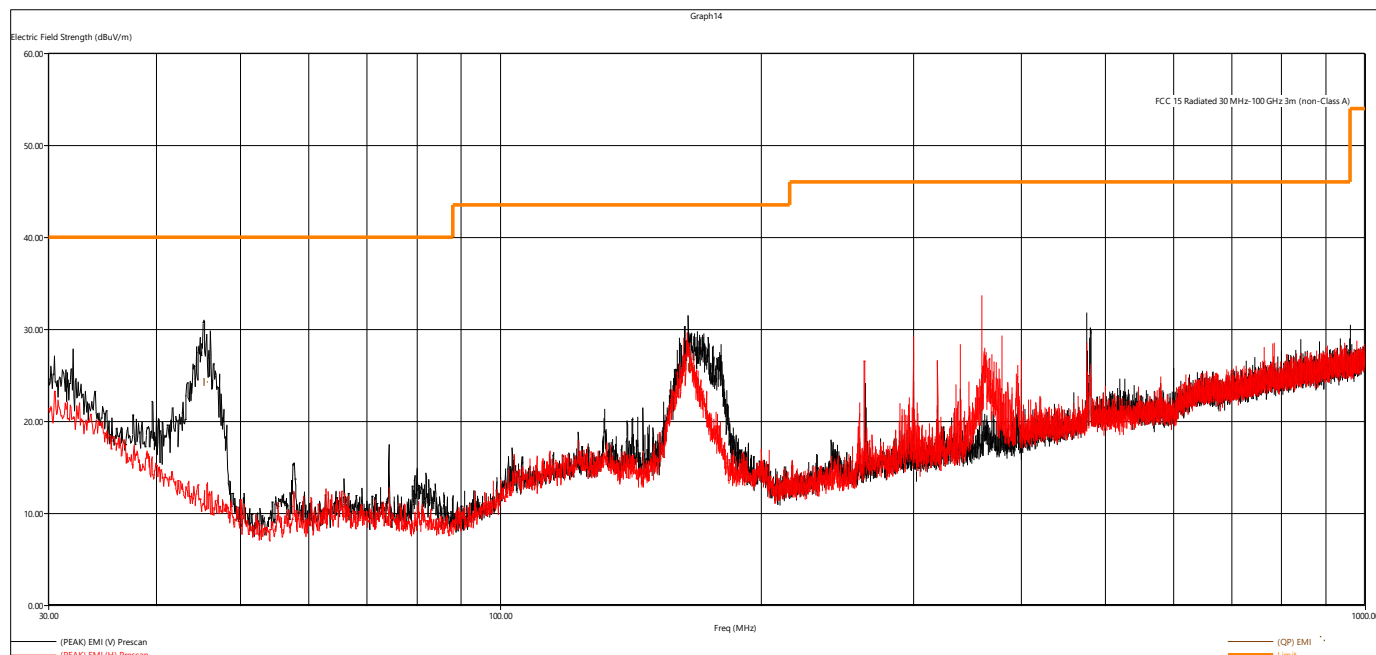


Figure 12 - Radiated Emissions Plot, 802.11b 11MB

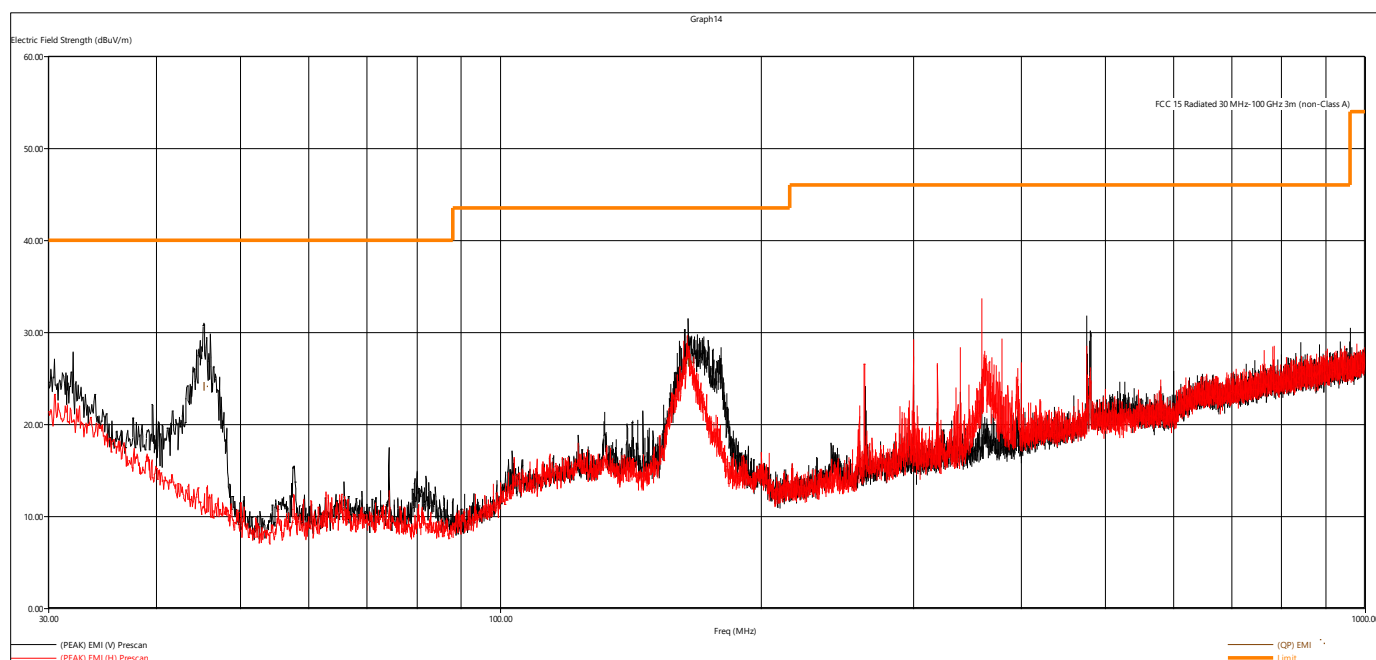


Figure 13 - Radiated Emissions Plot, 802.11g 6MB

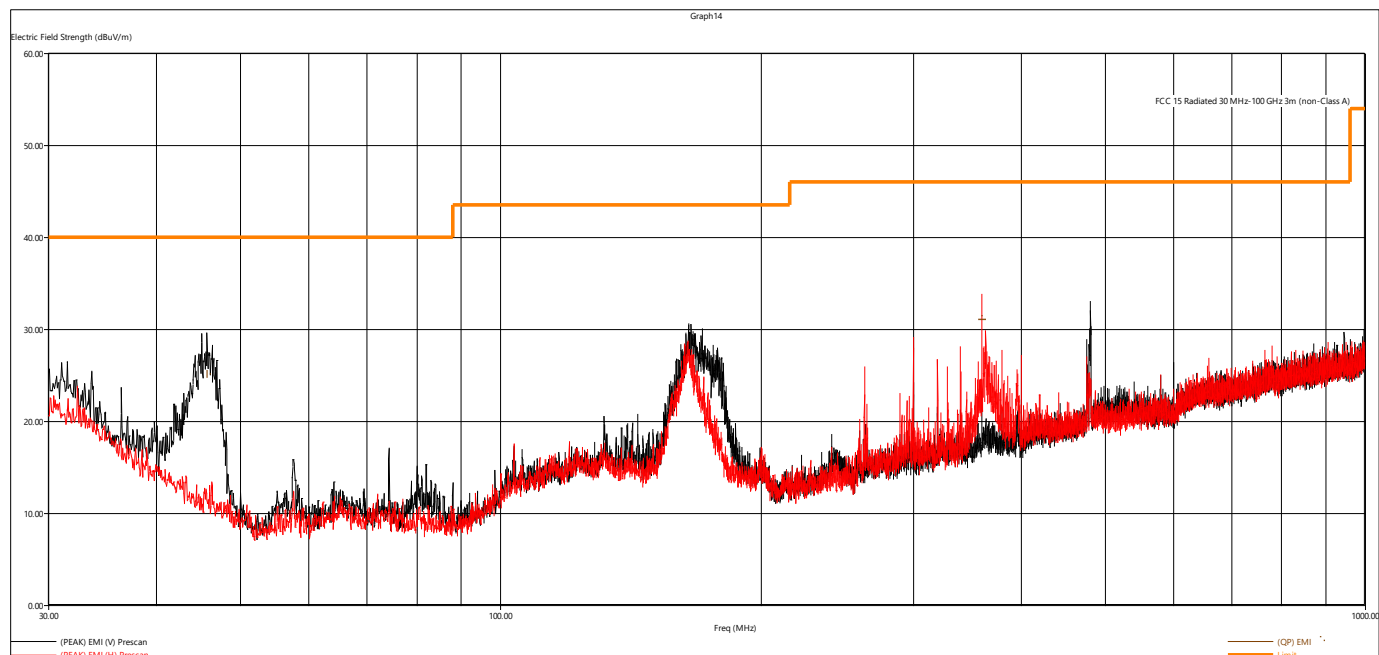


Figure 14 - Radiated Emissions Plot, 802.11g 54MB

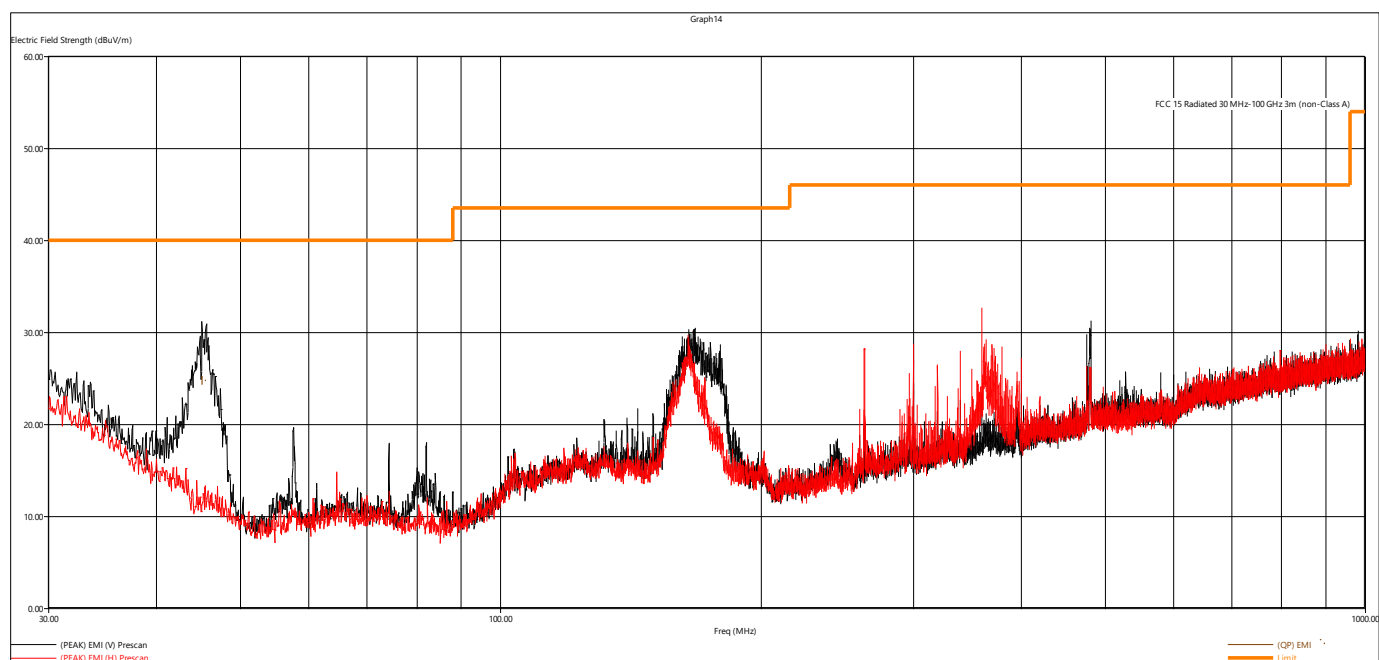


Figure 15 - Radiated Emissions Plot, 802.11n MCS0

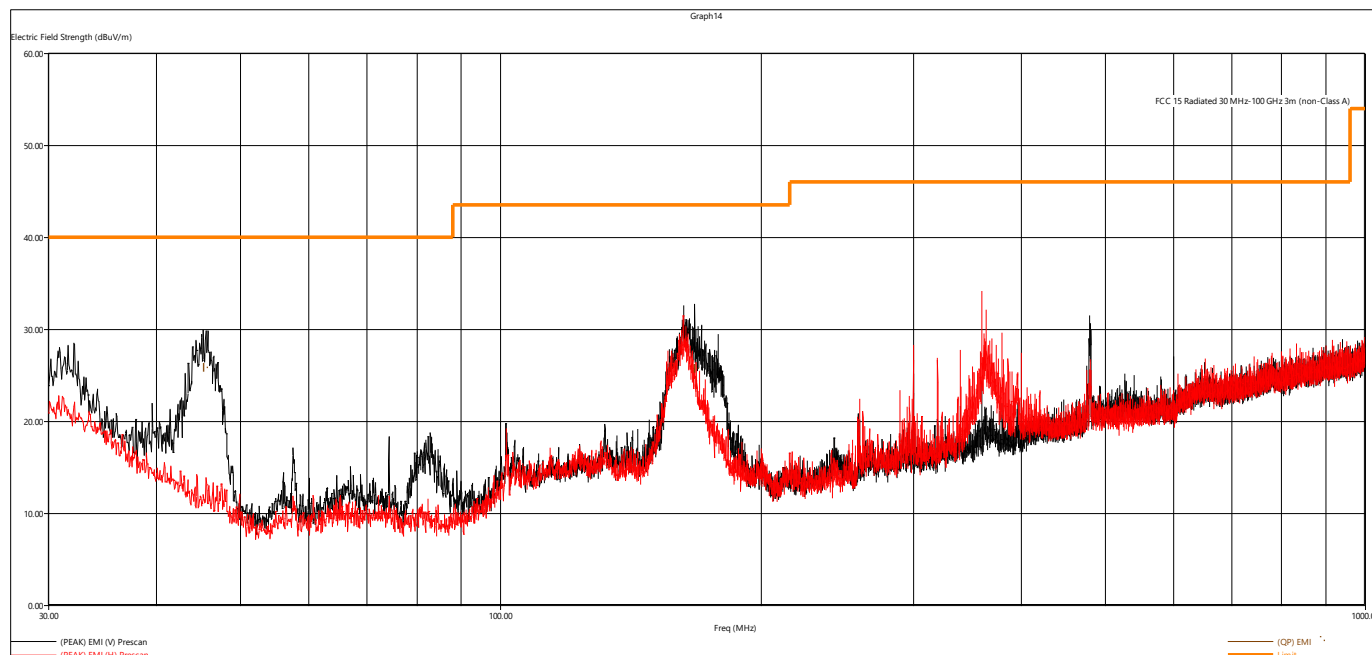


Figure 16 - Radiated Emissions Plot, 802.11n MCS7

| Quasi-Peak Measurements, 802.11x |        |        |        |        |        |     |            |
|----------------------------------|--------|--------|--------|--------|--------|-----|------------|
| Frequency                        | Level  | Limit  | Margin | Height | Angle  | Pol | Modulation |
| MHz                              | dBμV/m | dBμV/m | dB     | cm.    | deg.   |     |            |
| 164.423280                       | 27.44  | 43.52  | 16.08  | 110.98 | 257.50 | V   | RX         |
| 45.090240                        | 24.04  | 40.00  | 15.96  | 148.89 | 225.75 | V   | B 1MB      |
| 164.529360                       | 25.45  | 43.52  | 18.07  | 125.07 | 212.00 | V   | B 1MB      |
| 480.173280                       | 27.65  | 46.02  | 18.37  | 143.16 | 253.75 | V   | B 1MB      |
| 45.375600                        | 24.25  | 40.00  | 15.75  | 114.80 | 244.50 | V   | B 11MB     |
| 164.927520                       | 25.75  | 43.52  | 17.77  | 132.95 | 230.75 | V   | B 11MB     |
| 45.498960                        | 24.07  | 40.00  | 15.93  | 132.35 | 184.75 | V   | G 6MB      |
| 164.619600                       | 26.63  | 43.52  | 16.89  | 114.02 | 254.50 | V   | G 6MB      |
| 360.022320                       | 30.99  | 46.02  | 15.03  | 109.07 | 75.00  | H   | G 54MB     |
| 45.624720                        | 25.06  | 40.00  | 14.94  | 119.94 | 253.50 | V   | G 54MB     |
| 45.117600                        | 24.69  | 40.00  | 15.31  | 112.35 | 302.75 | V   | N MCS0     |
| 45.359280                        | 25.80  | 40.00  | 14.20  | 105.01 | 29.50  | V   | N MCS7     |
| 167.419680                       | 25.69  | 43.52  | 17.83  | 109.67 | 229.25 | V   | N MCS7     |

### Peak Radiated Emissions, 802.11x

| Freq (Max) | (PEAK) EMI | Limit    | (PEAK) Margin | Twr Ht | Ttbt Ang | Pol | Channel | Modulation |
|------------|------------|----------|---------------|--------|----------|-----|---------|------------|
| (MHz)      | (dBuV/m)   | (dBuV/m) | (dB)          | (cm)   | (deg)    |     |         |            |
| 1263.49    | 22.17      | 53.98    | 31.81         | 515.64 | 179.00   | V   |         | RX         |
| 2401.19    | 25.77      | 53.98    | 28.21         | 147.88 | 110.00   | V   |         | RX         |
| 4787.05    | 47.06      | 73.98    | 26.92         | 245.37 | 126.25   | V   | Low     | N MCS0     |
| 4798.29    | 49.31      | 73.98    | 24.67         | 559.94 | 53.75    | H   | Mid     | N MCS0     |
| 4796.45    | 46.21      | 73.98    | 27.77         | 168.53 | 212.75   | V   | High    | N MCS0     |
| 4924.97    | 46.15      | 73.98    | 27.83         | 485.01 | 142.50   | V   | High    | N MCS0     |
| 4777.71    | 42.54      | 73.98    | 31.44         | 130.50 | 175.00   | H   | Low     | N MCS7     |
| 4778.00    | 48.29      | 73.98    | 25.69         | 173.25 | 120.75   | V   | Mid     | N MCS7     |
| 4796.11    | 48.42      | 73.98    | 25.56         | 552.17 | 52.75    | H   | High    | N MCS7     |
| 4927.89    | 45.74      | 73.98    | 28.24         | 221.25 | 137.75   | V   | High    | N MCS7     |

### Average Radiated Emissions, 802.11x

| Freq (Max) | (CISPR AVG) EMI | Limit    | (CISPR AVG) Margin | Twr Ht | Ttbt Ang | Pol | Channel | Modulation |
|------------|-----------------|----------|--------------------|--------|----------|-----|---------|------------|
| (MHz)      | (dBuV/m)        | (dBuV/m) | (dB)               | (cm)   | (deg)    |     |         |            |
| 1263.49    | 35.38           | 73.98    | 38.60              | 515.64 | 179.00   | V   |         | RX         |
| 2401.19    | 39.40           | 73.98    | 34.58              | 147.88 | 110.00   | V   |         | RX         |
| 4787.05    | 32.59           | 53.98    | 21.39              | 245.37 | 126.25   | V   | Low     | N MCS0     |
| 4798.29    | 33.09           | 53.98    | 20.89              | 559.94 | 53.75    | H   | Mid     | N MCS0     |
| 4796.45    | 30.97           | 53.98    | 23.01              | 168.53 | 212.75   | V   | High    | N MCS0     |
| 4924.97    | 32.08           | 53.98    | 21.90              | 485.01 | 142.50   | V   | High    | N MCS0     |
| 4777.71    | 29.65           | 53.98    | 24.33              | 130.50 | 175.00   | H   | Low     | N MCS7     |
| 4778.00    | 31.93           | 53.98    | 22.05              | 173.25 | 120.75   | V   | Mid     | N MCS7     |
| 4796.11    | 32.81           | 53.98    | 21.17              | 552.17 | 52.75    | H   | High    | N MCS7     |
| 4927.89    | 31.42           | 53.98    | 22.56              | 221.25 | 137.75   | V   | High    | N MCS7     |

#### REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. All other emissions, including those up to 25GHz, were found to be at least 6dB below limit line and were not tabulated.



|                |                            |     |   |
|----------------|----------------------------|-----|---|
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#### 4.5 CONDUCTED SPURIOUS EMISSIONS

**Test Method:**

ANSI C63.10-2020, Section 6.7

**Limits of spurious emissions:**

**From FCC Part 15.247:**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

**Test procedures:**

The highest emissions level was measured and recorded. All spurious measurements were evaluated to 30dB below the fundamental. More details can be found in section 3.4 of this report. The line shown in the plots is a reference line placed at -20dBm.

**Deviations from test standard:**

None.

**Test setup:**

Test setup details can be found in section 3.4 of this report.

**EUT operating conditions:**

Details can be found in section 2.1 of this report.

**Test results:**

Data rates and channels were investigated and worst case was reported. No emissions exceeded the limits.

There was no distinguishable difference between low and high data rate for purposes of Conducted spurious.

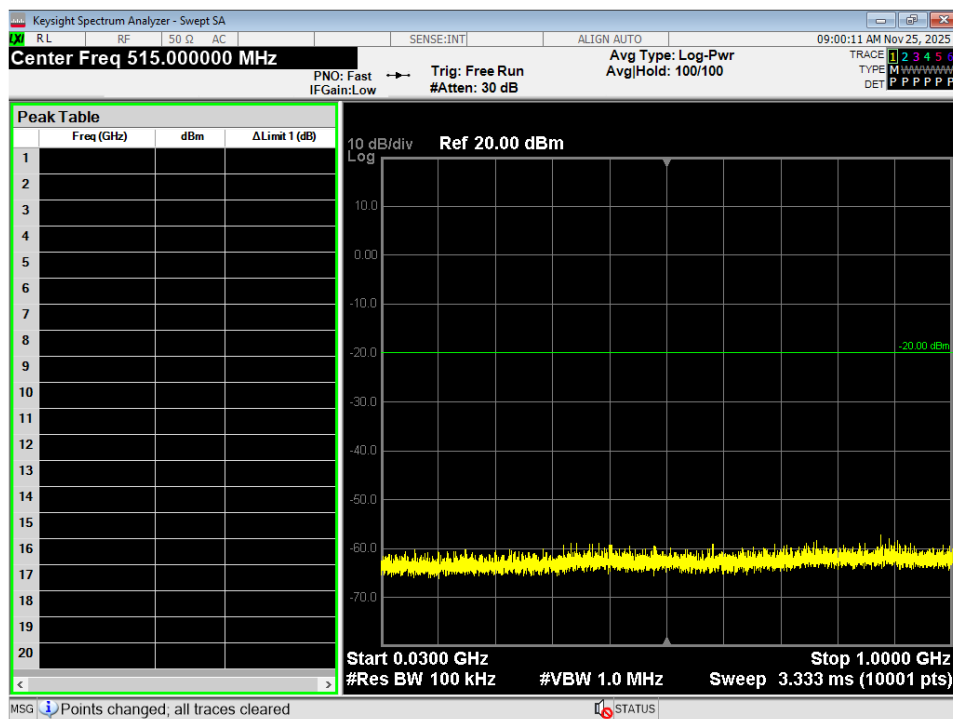


Figure 17 – Conducted Spurious Plot, 30M – 1G, RX

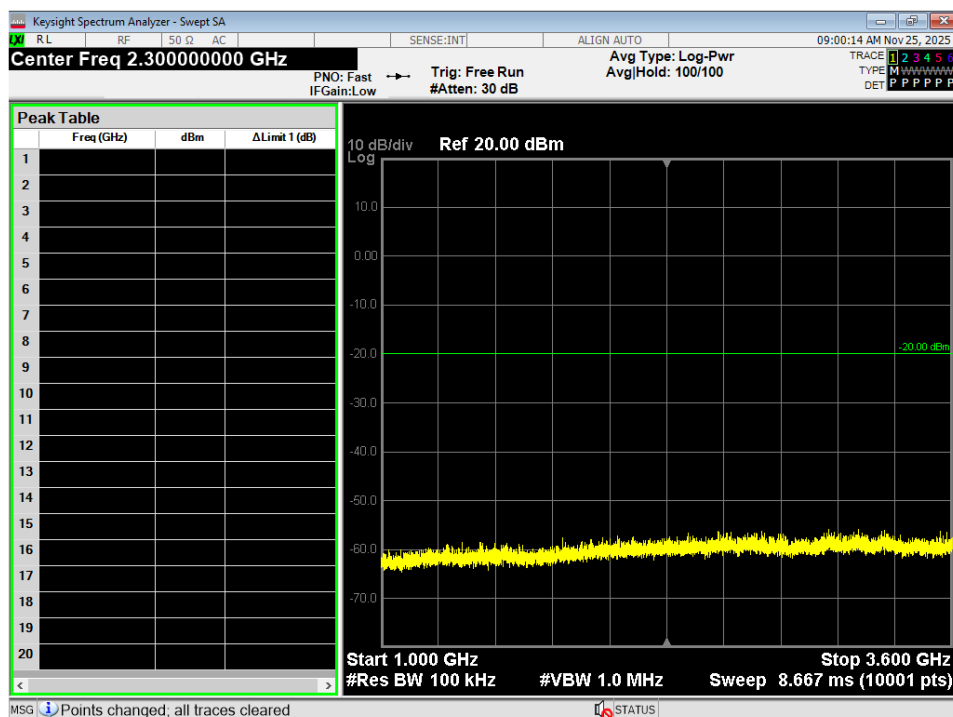


Figure 18 - Conducted Spurious Plot, 1G – 3.6G, RX

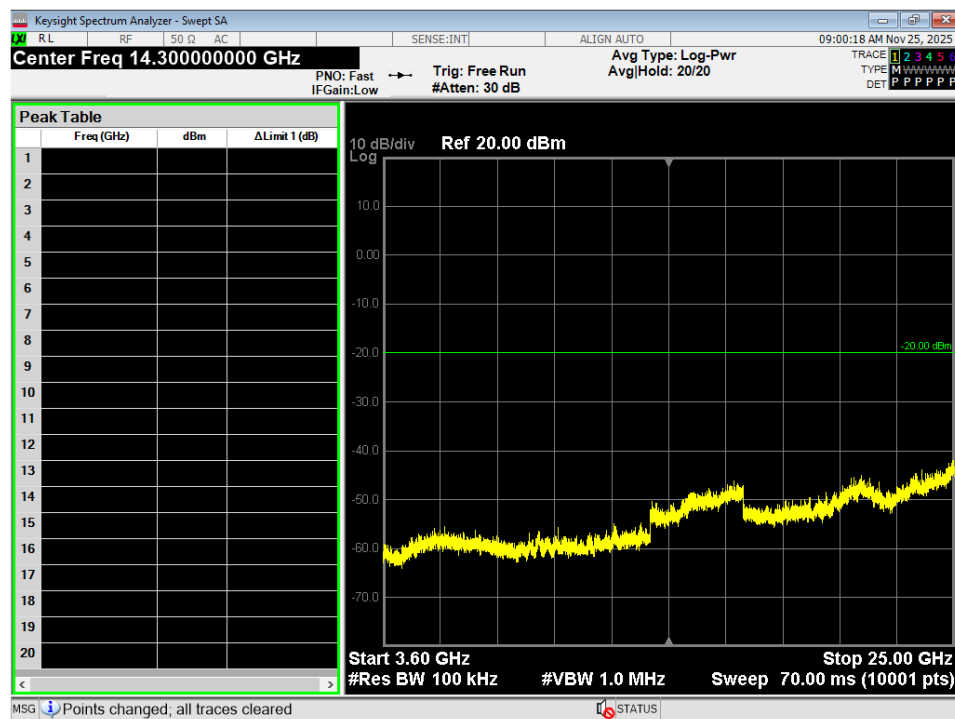


Figure 19 - Conducted Spurious Plot, 3.6G – 25G, RX

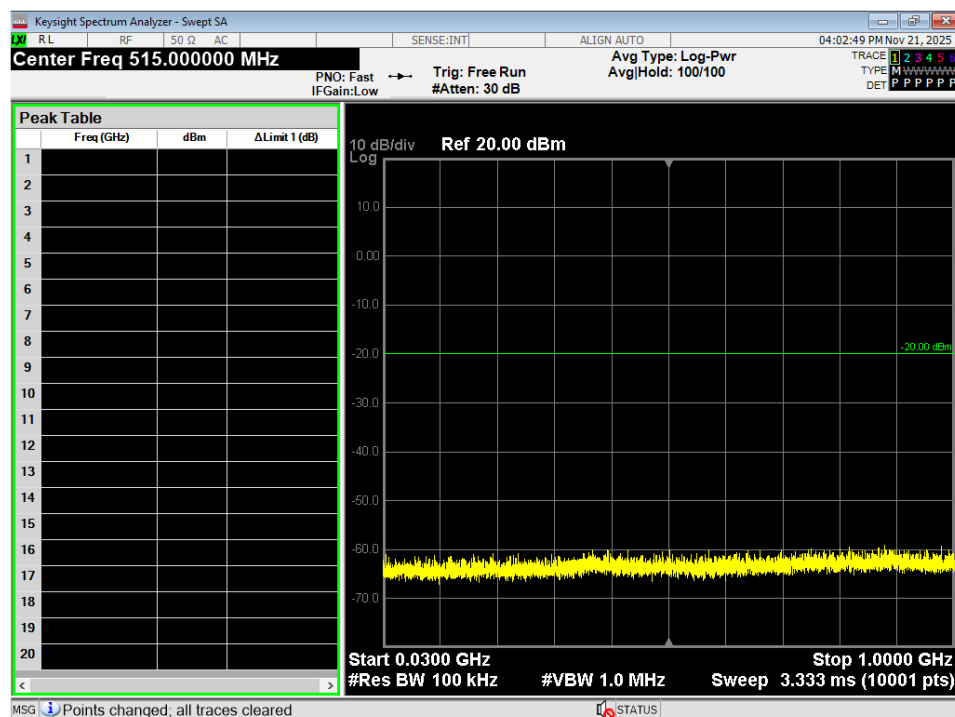


Figure 20 – Conducted Spurious Plot, 30M – 1G, WIFI 802.11b Low

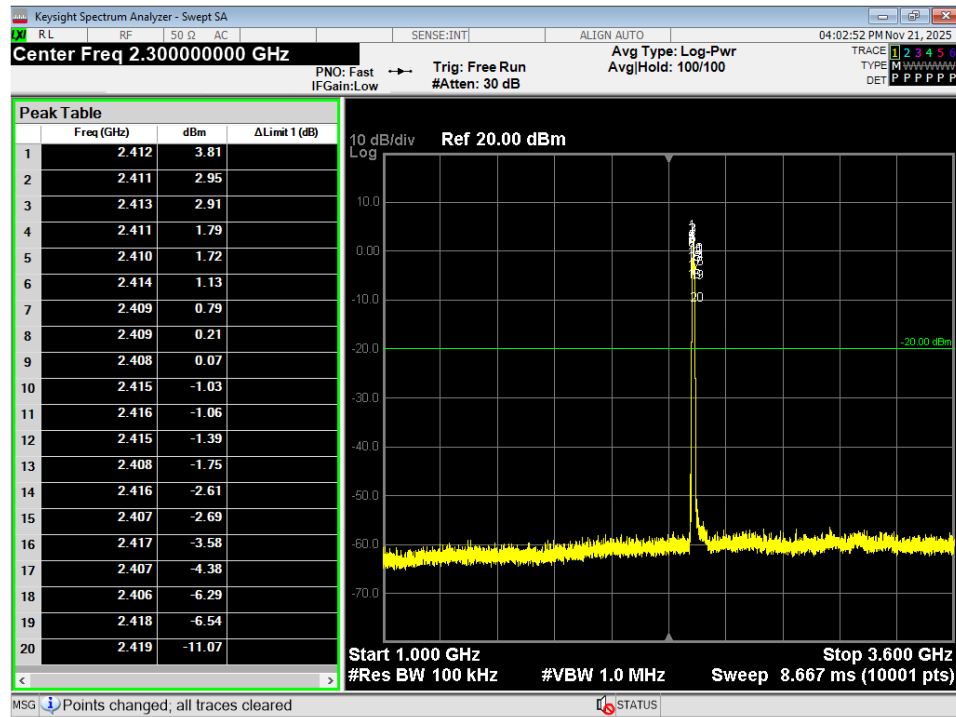


Figure 21 - Conducted Spurious Plot, 1G – 3.6G, WIFI 802.11b Low

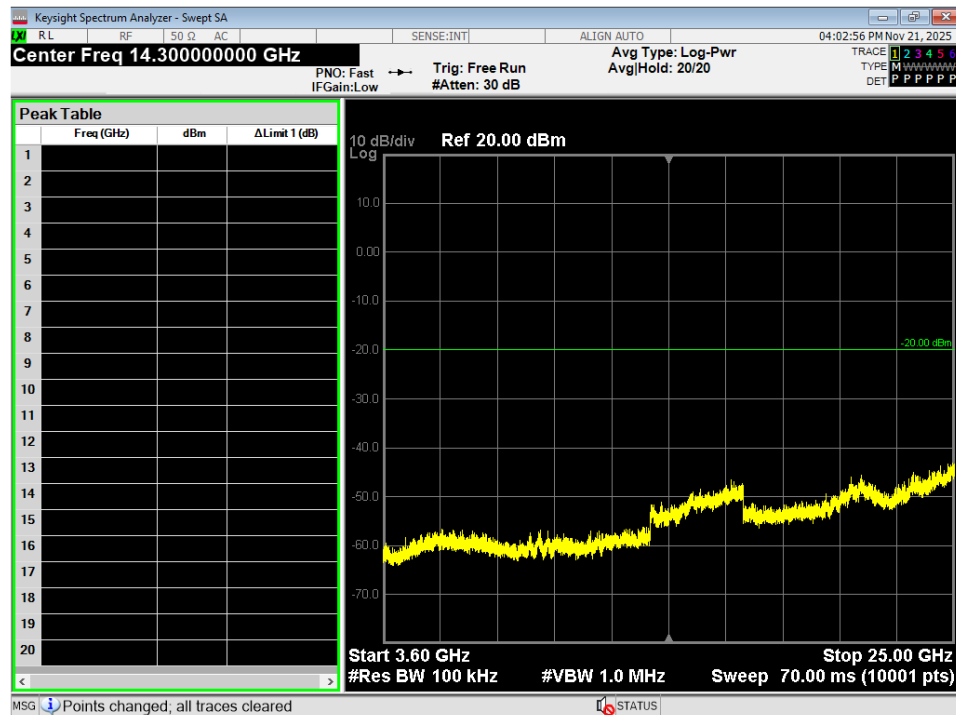


Figure 22 - Conducted Spurious Plot, 3.6G – 25G, WIFI 802.11b Low

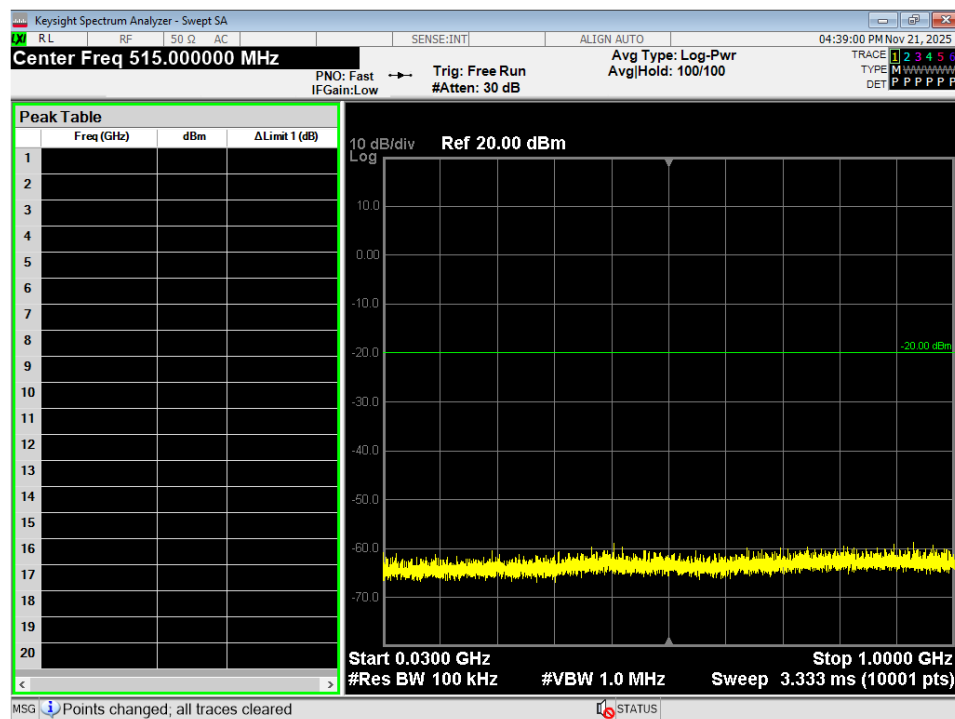


Figure 23 - Conducted Spurious Plot, 30M – 1G, WIFI 802.11g Low

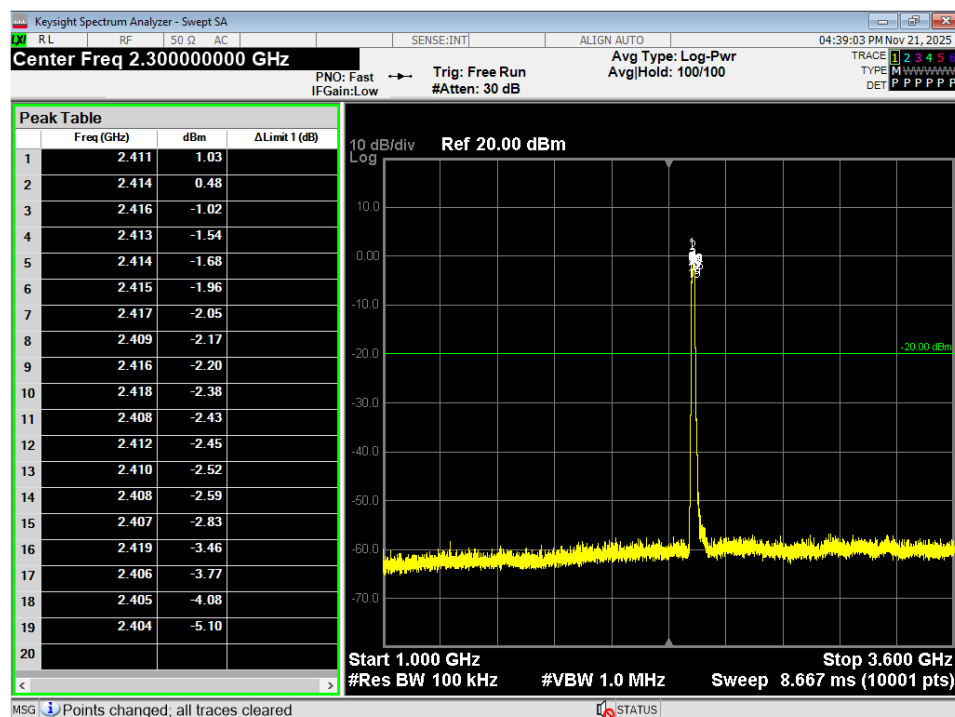


Figure 24 - Conducted Spurious Plot, 1G – 3.6G, WIFI 802.11g Low

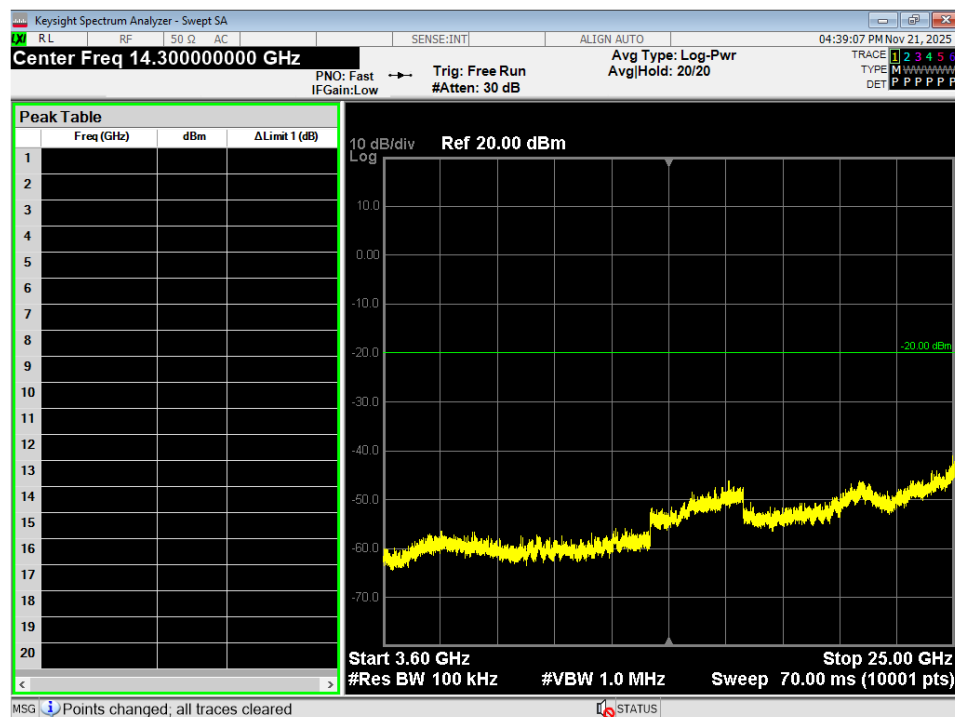


Figure 25 - Conducted Spurious Plot, 3.6G – 25G, WIFI 802.11g Low

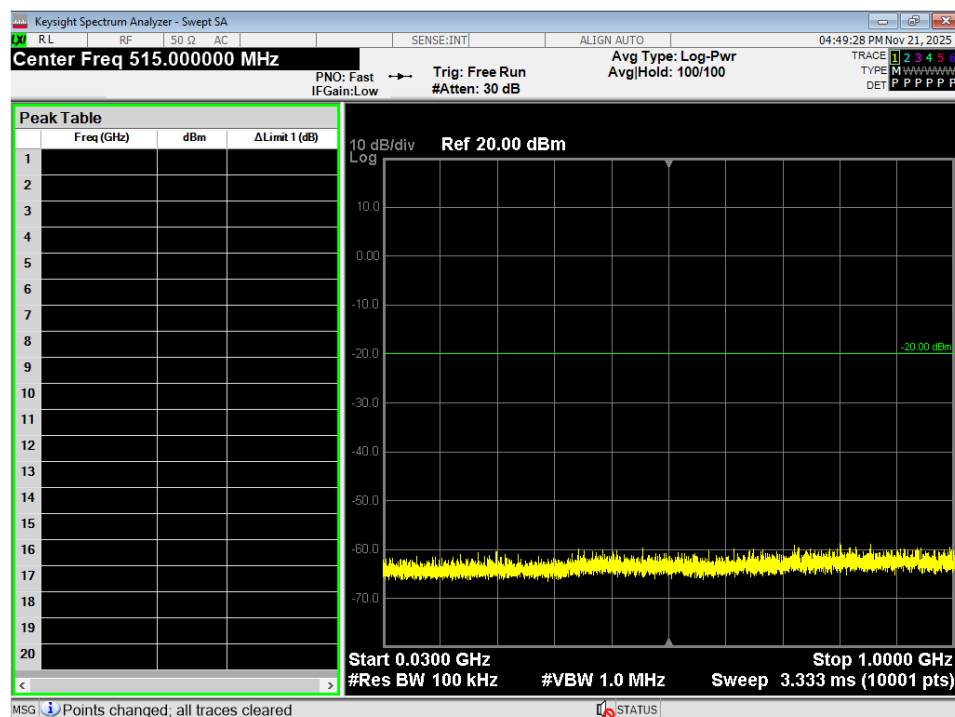


Figure 26 - Conducted Spurious Plot, 30M – 1G, WIFI 802.11n High

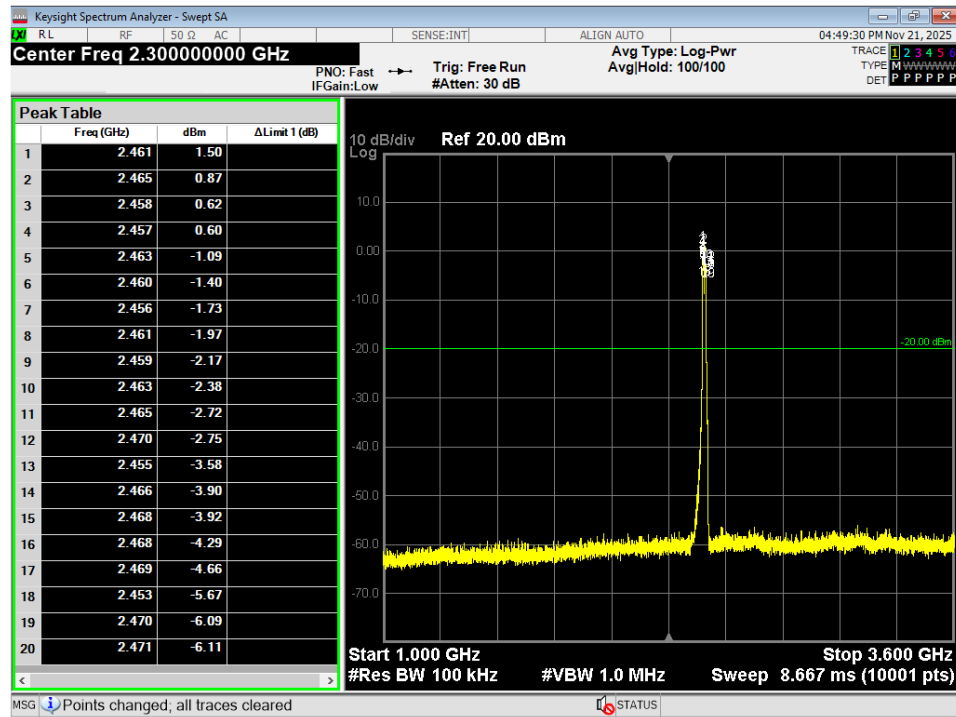


Figure 27 - Conducted Spurious Plot, 1G – 3.6G, WIFI 802.11n High

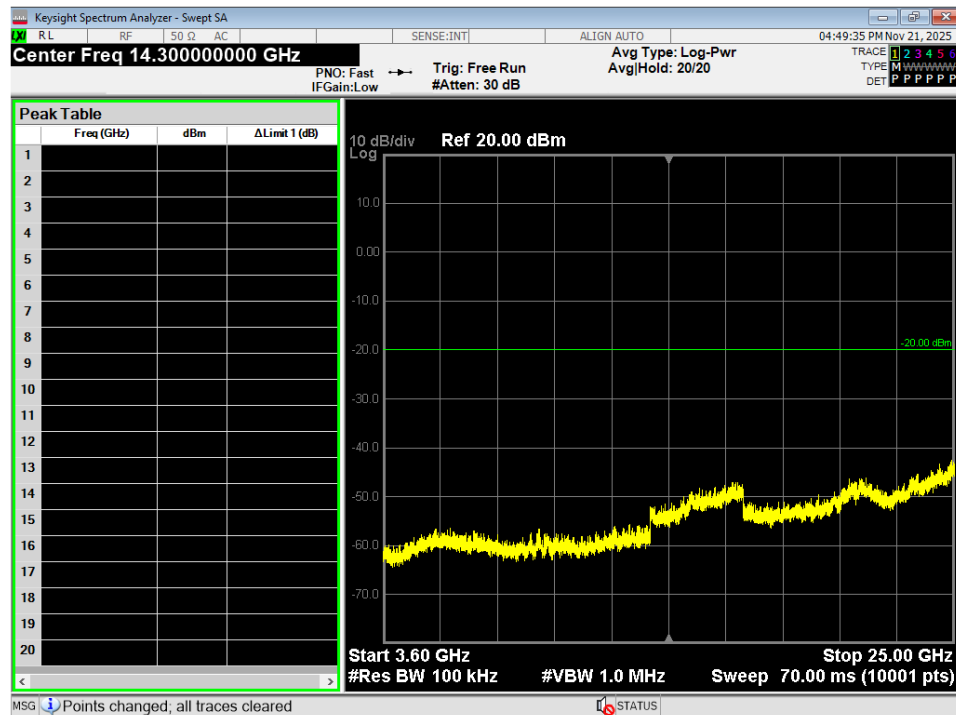


Figure 28 - Conducted Spurious Plot, 3.6G – 25G, WIFI 802.11n High

|                                                                                  |                |                            |     |   |
|----------------------------------------------------------------------------------|----------------|----------------------------|-----|---|
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|                                                                                  | Prepared for:  | Garmin International, Inc. |     |   |

## 4.6 BAND EDGES

### Test Method:

All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

### Limits of band-edge measurements:

#### For FCC Part 15.247 Device:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test procedures:

The highest emissions level beyond the band-edge was measured and recorded. All band edge measurements were evaluated to the general limits in Part 15.209. More details can be found in section 3.4 of this report.

### Deviations from test standard:

No deviation.

### Test setup:

Test setup details can be found in section 3.4 of this report.

### EUT operating conditions:

Details can be found in section 2.1 of this report.

### Test results:

## Pass

#### Comments:

1. All the band edge plots can be found in Appendix C.
2. If the device falls under FCC Part 15.247 (Details can be found in summary of test results), compliance is shown in the unrestricted band edges by showing minimum delta of 20 dB between peak and the band edge.
3. The restricted band edge compliance is shown by comparing it to the general limit defined in Part 15.209. The limit shown in the graph accounts for the antenna gain of the device.



|                |                            |     |   |
|----------------|----------------------------|-----|---|
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## 4.7 POWER SPECTRAL DENSITY

### Test Method:

All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

### Limits of power measurements:

#### For FCC Part 15.247 Device:

The maximum PSD allowed is 8 dBm.

### Test procedures:

Details can be found in section 3.4 of this report.

### Deviations from test standard:

No deviation.

### Test setup:

Details can be found in section 3.4 of this report.

### EUT operating conditions:

Details can be found in section 2.1 of this report.

### Test results:

## Pass

#### Comments:

1. All the Power Spectral Density (PSD) plots can be found in Appendix C.
2. All the measurements were found to be compliant.
3. The measurements are listed in the tables in section 4.0.



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## APPENDIX A: SAMPLE CALCULATION

### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor, Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF - (-CF + AG) + AV$$

Where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

AV = Averaging Factor (if applicable)

Assume a receiver reading of 55 dB $\mu$ V is obtained. The Antenna Factor of 12 and a Cable Factor of 1.1 is added. The Amplifier Gain of 20 dB is subtracted, giving a field strength of 48.1 dB $\mu$ V/m.

$$FS = 55 + 12 - (-1.1 + 20) + 0 = 48.1 \text{ dB}\mu\text{V/m}$$

The 48.1 dB $\mu$ V/m value can be mathematically converted to its corresponding level in  $\mu$ V/m.

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm} [(48.1 \text{ dB}\mu\text{V/m})/20] = 254.1 \mu\text{V/m}$$

AV is calculated by taking the  $20 \cdot \log(T_{\text{on}}/100)$  where  $T_{\text{on}}$  is the maximum transmission time in any 100ms window.

### EIRP Calculations

In cases where direct antenna port measurement is not possible or would be inaccurate, output power is measured in EIRP. The maximum field strength is measured at a specified distance and the EIRP is calculated using the following equation;

$$EIRP \text{ (Watts)} = [\text{Field Strength (V/m)} \times \text{antenna distance (m)}]^2 / 30$$

$$\text{Power (watts)} = 10^{[\text{Power (dBm)}]/10} / 1000$$

$$\text{Voltage (dB}\mu\text{V)} = \text{Power (dBm)} + 107 \text{ (for } 50\Omega \text{ measurement systems)}$$

$$\text{Field Strength (V/m)} = 10^{[\text{Field Strength (dB}\mu\text{V/m)} / 20] / 10^6}$$

$$\text{Gain} = 1 \text{ (numeric gain for isotropic radiator)}$$

$$\text{Conversion from 3m field strength to EIRP (d=3):}$$

$$EIRP = [FS(\text{V/m}) \times d^2]/30 = FS [0.3] \quad \text{for } d = 3$$

$$EIRP(\text{dBm}) = FS(\text{dB}\mu\text{V/m}) - 10(\log 10^9) + 10\log[0.3] = FS(\text{dB}\mu\text{V/m}) - 95.23$$

$10\log(10^9)$  is the conversion from micro to milli



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## APPENDIX B – MEASUREMENT UNCERTAINTY

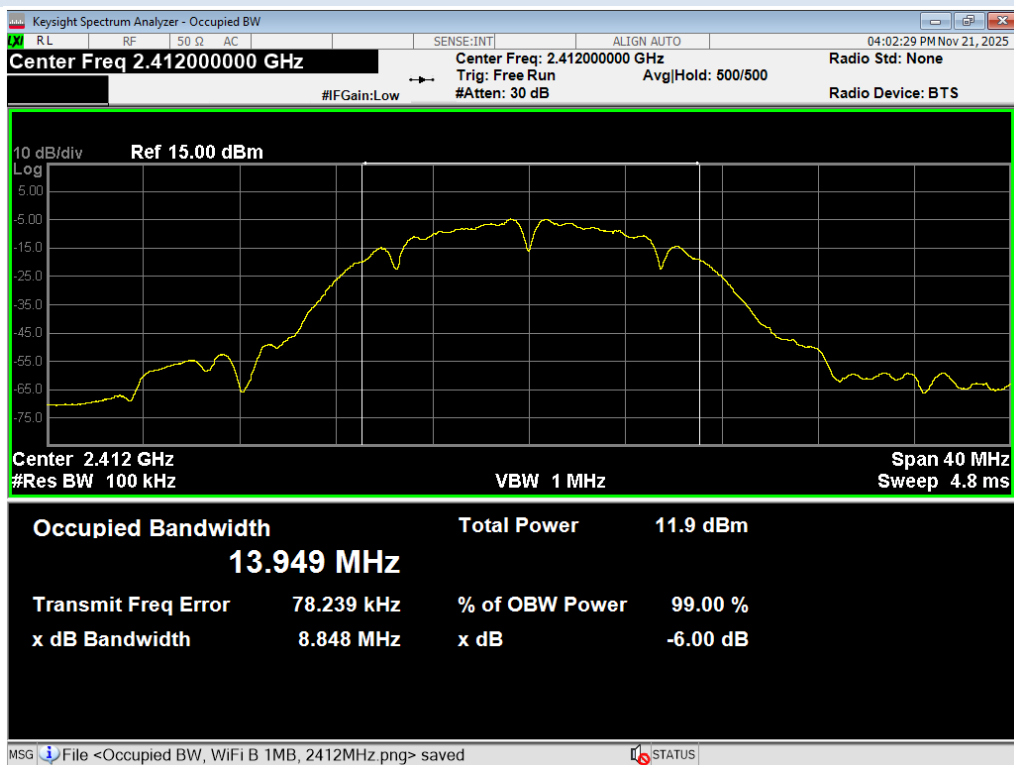
NCEE Labs does not add uncertainty levels to measurement levels

Where relevant, the following measurement uncertainty levels have been for tests performed in this test report:

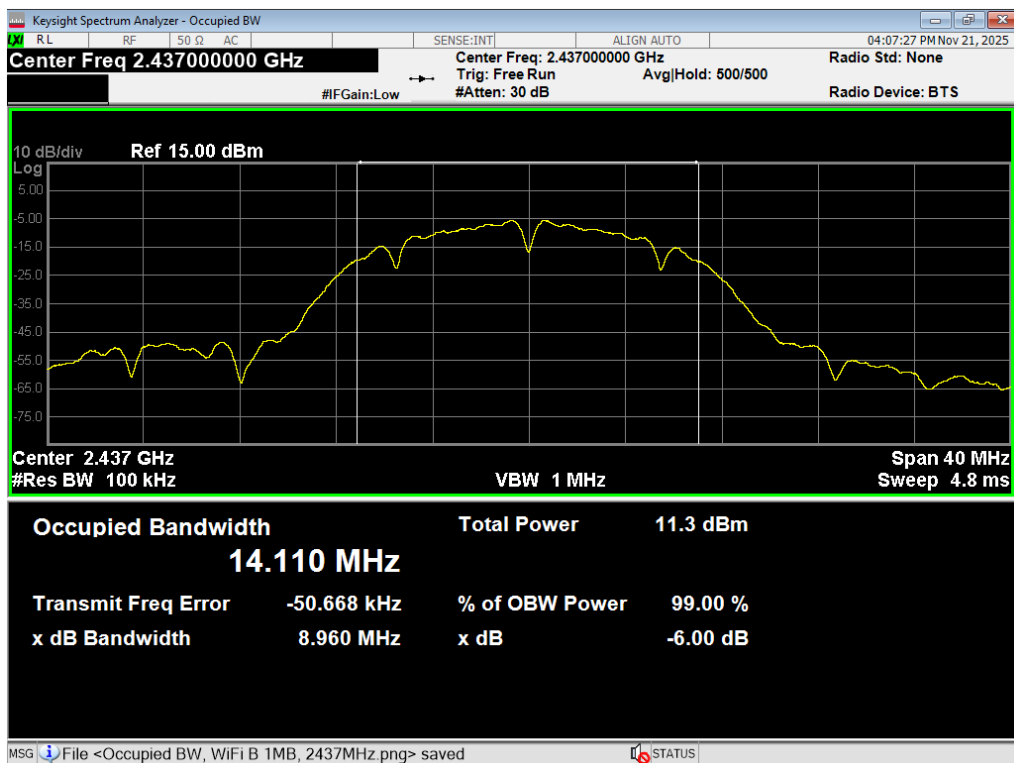
| Test                        | Frequency Range | Uncertainty Value (dB) |
|-----------------------------|-----------------|------------------------|
| Radiated Emissions, 3m      | 30MHz - 1GHz    | ±4.31                  |
| Radiated Emissions, 3m      | 1GHz - 18GHz    | ±5.08                  |
| Emissions limits, conducted | 30MHz – 18GHz   | ±3.03                  |

Expanded uncertainty values are calculated to a confidence level of 95%.

## APPENDIX C – GRAPHS AND TABLES



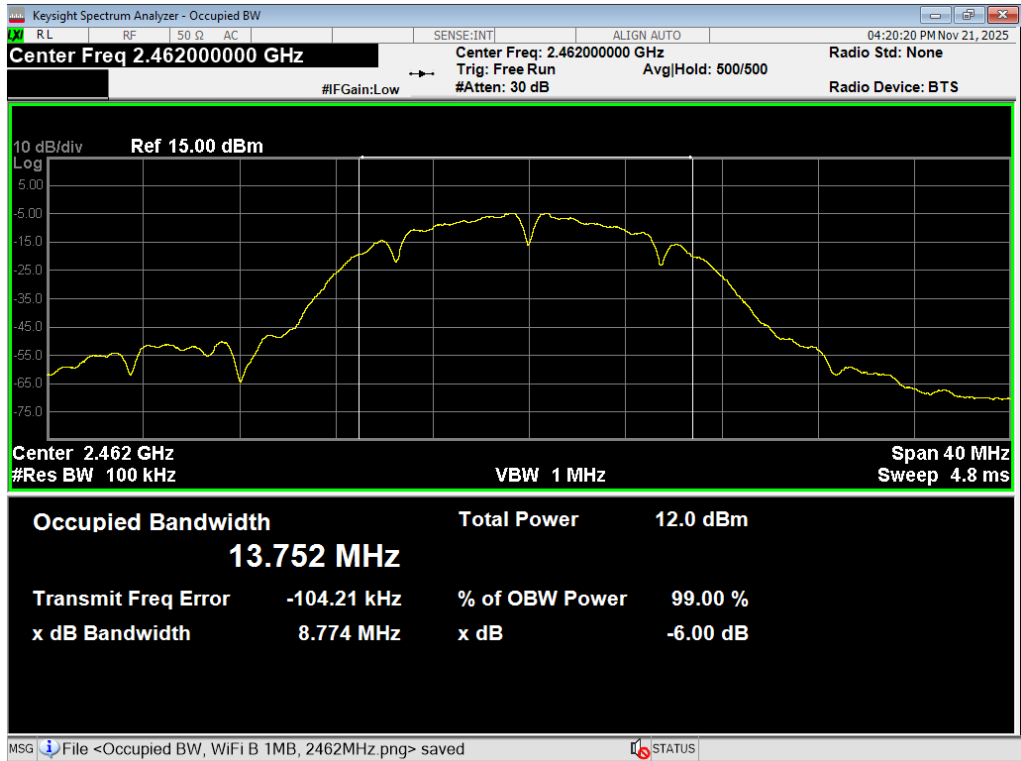
01 6dB BW, WiFi B 1MB, 2412MHz



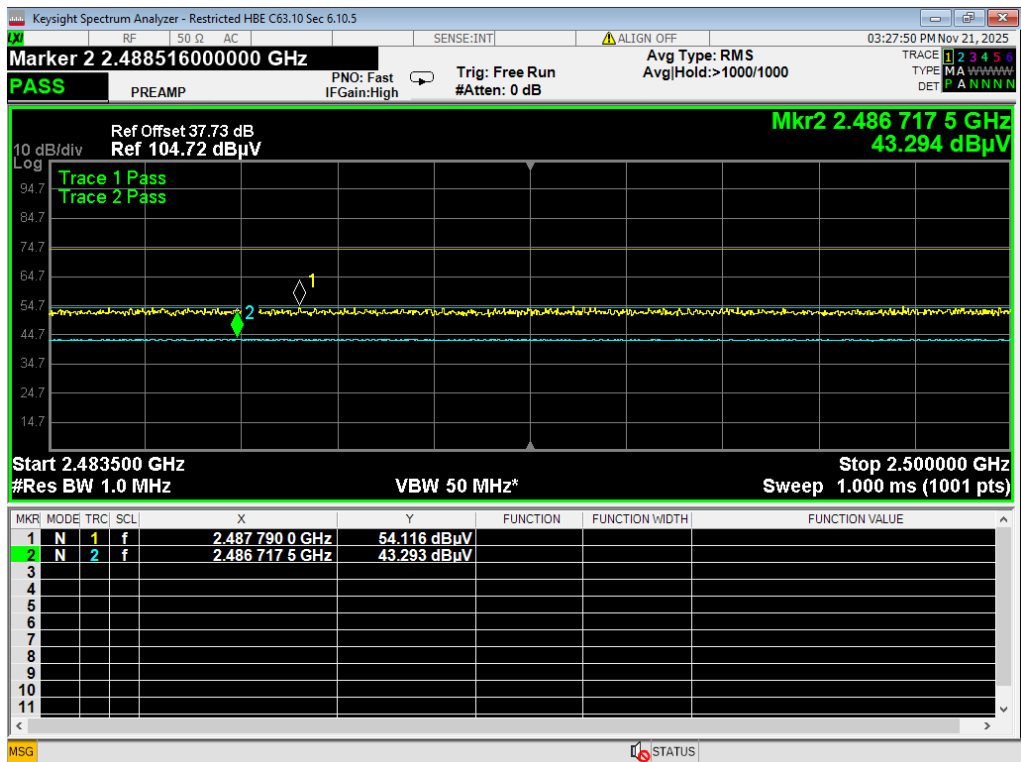
02 6dB BW, WiFi B 1MB, 2437MHz



|                |                            |     |   |
|----------------|----------------------------|-----|---|
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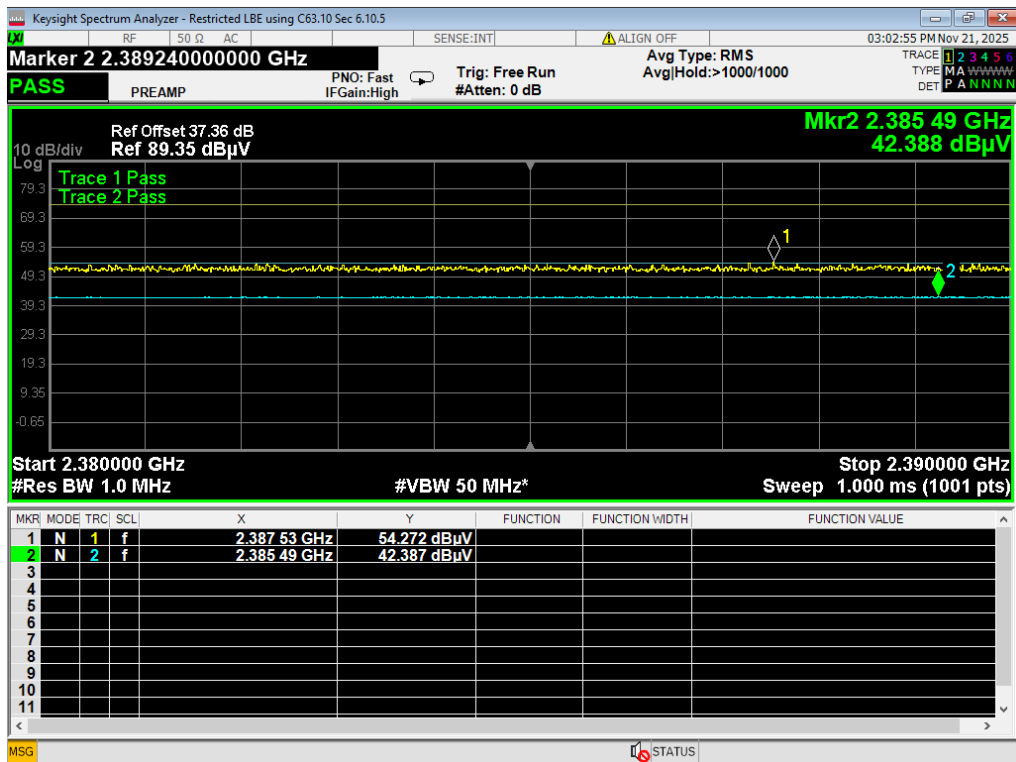
03 6dB BW, WiFi B 1MB, 2462MHz



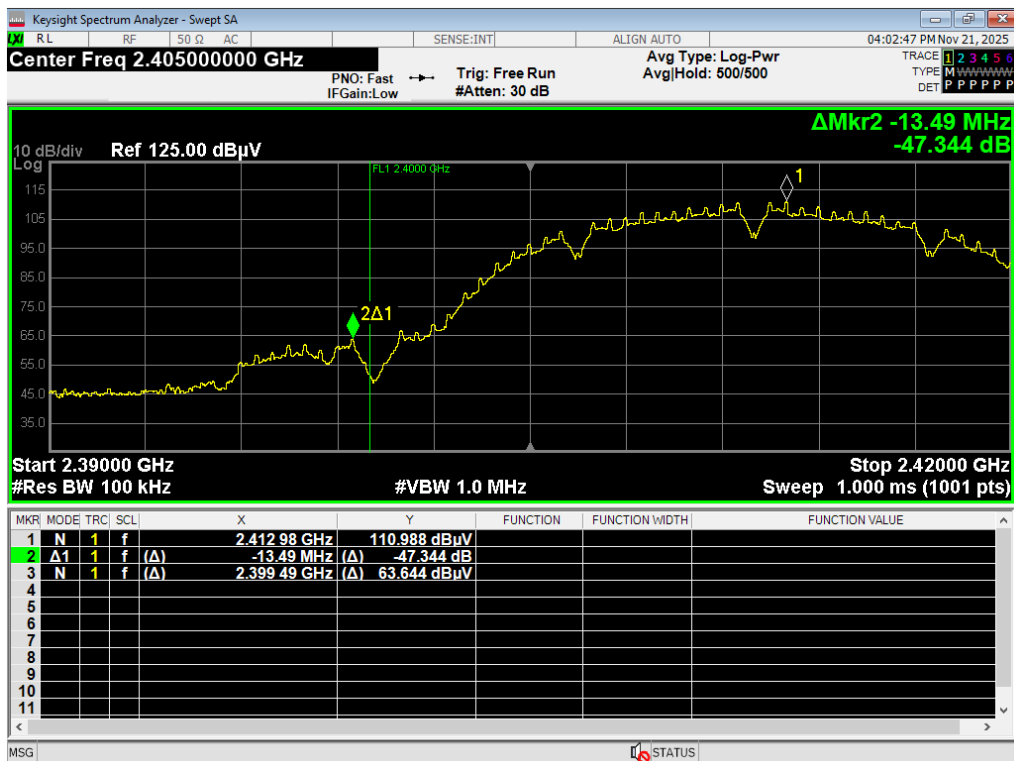
04 HBE Restricted, WIFI B 1MB, 2462MHz



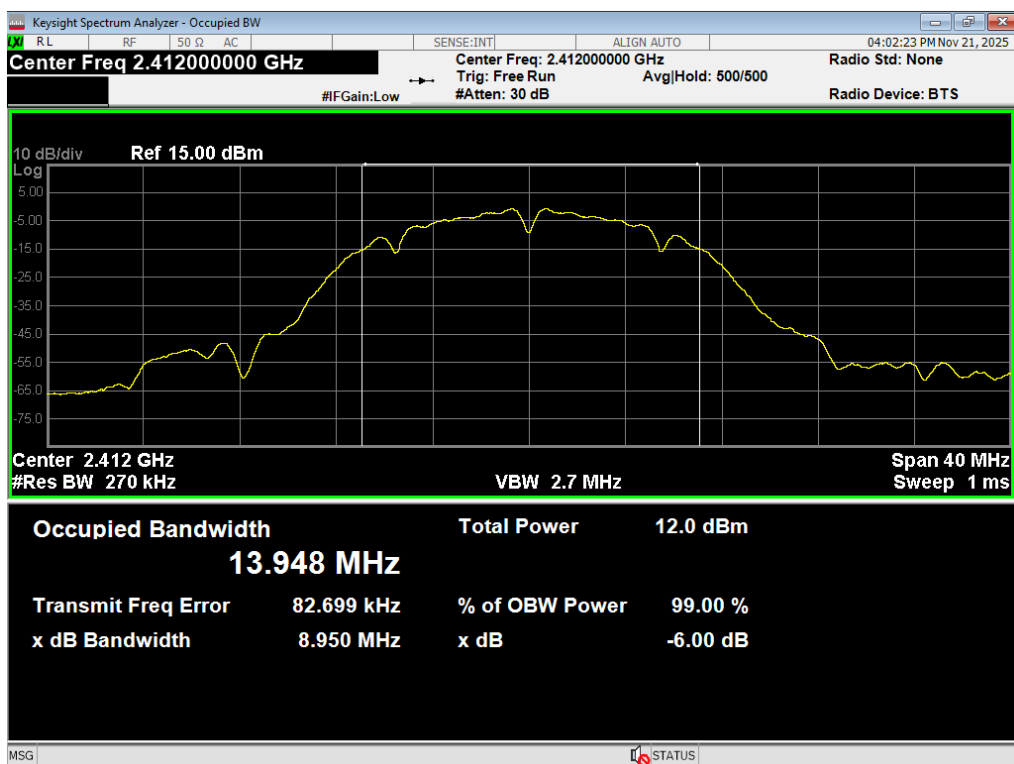
05 HBE Unrestricted, WiFi B 1MB, 2462MHz



06 LBE Restricted, WIFI B 1MB, 2412Mz

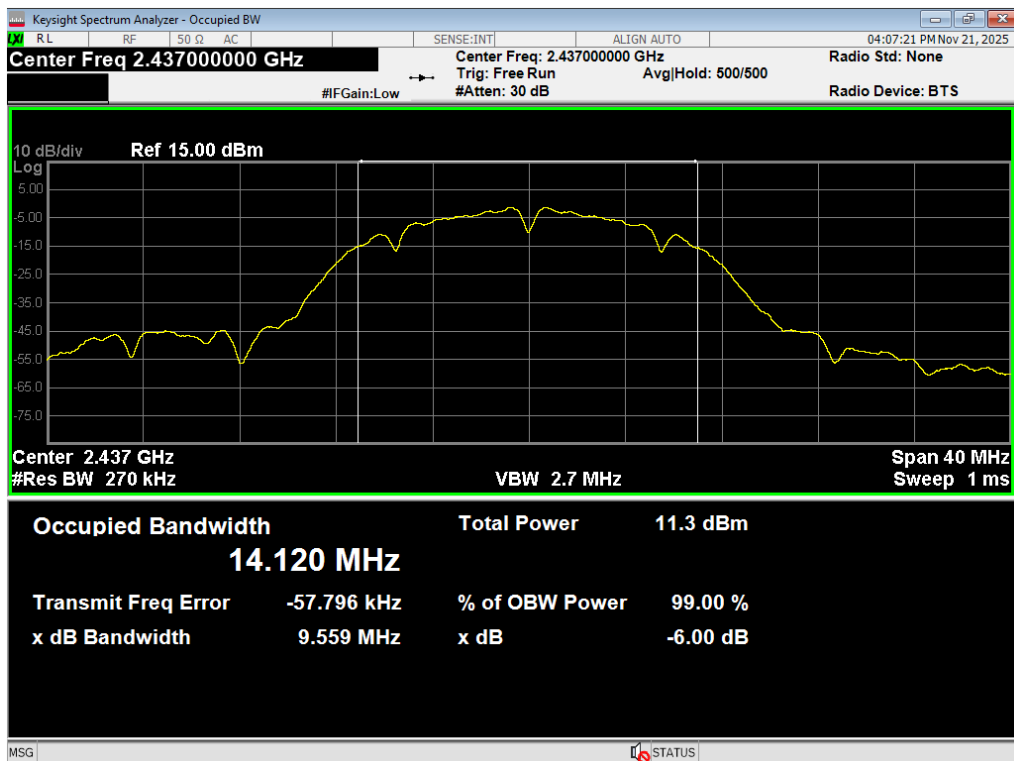


07 LBE Unrestricted, WiFi B 1MB, 2412MHz

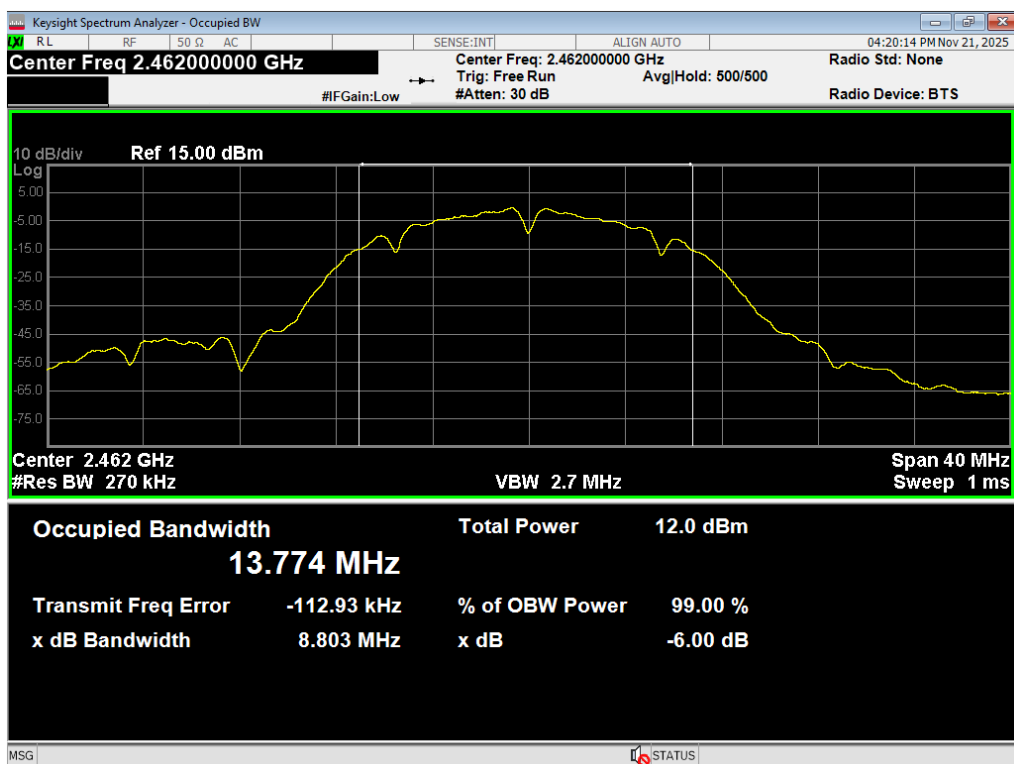


08 Occupied BW, WiFi B 1MB, 2412MHz

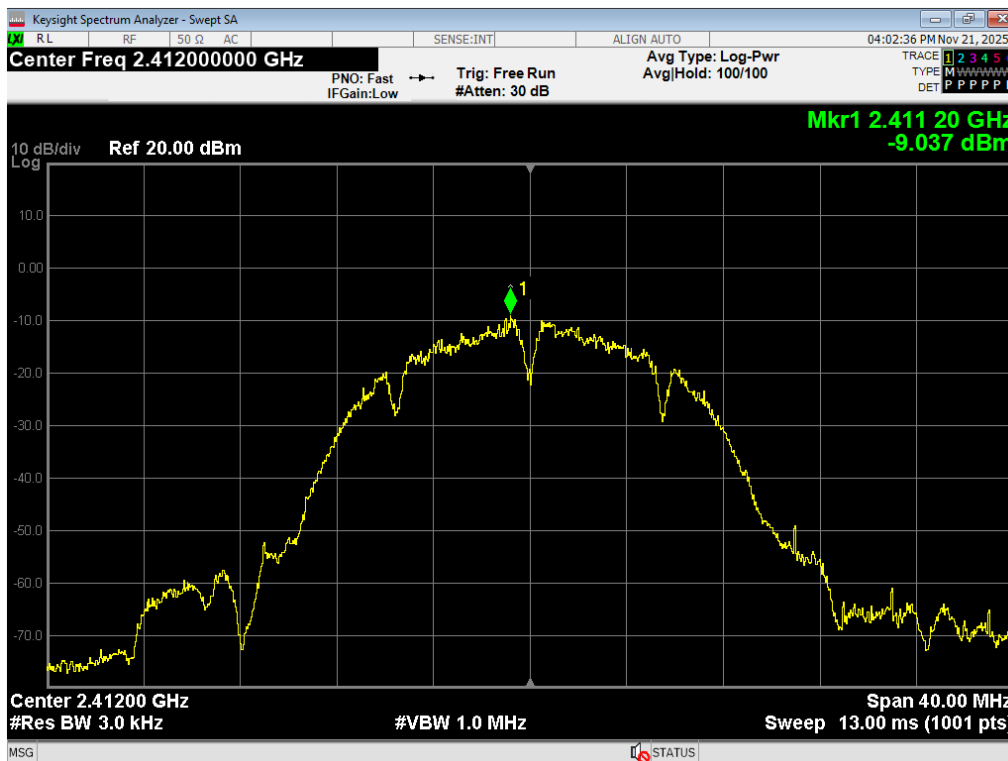
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|----------------|----------------------------|-----|---|
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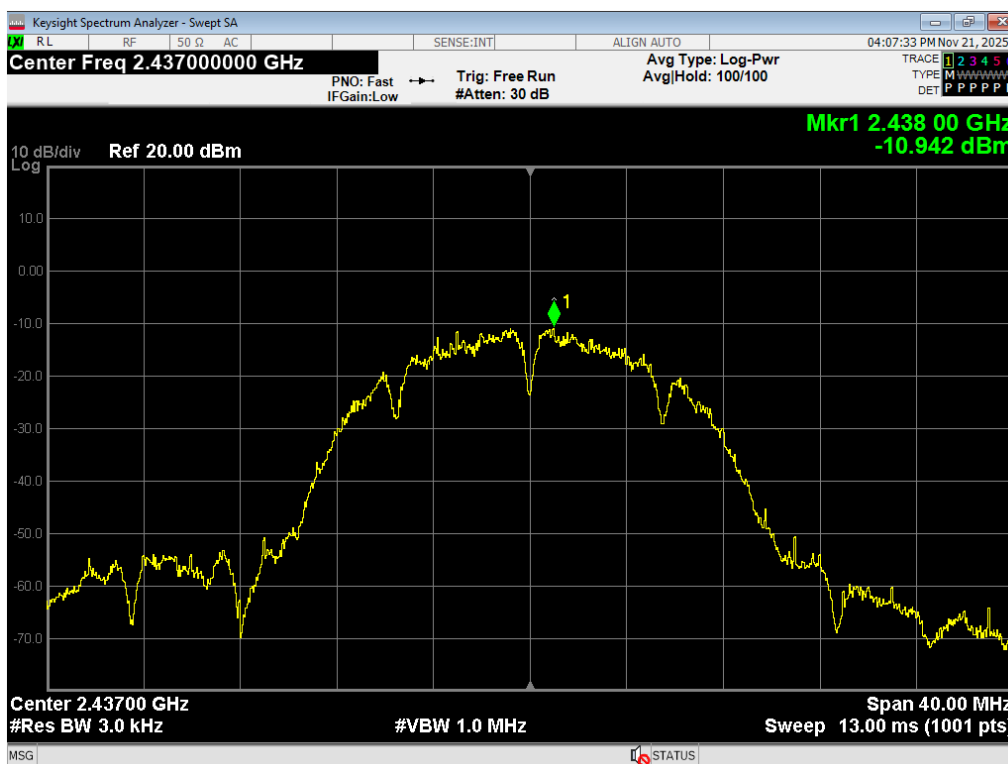
09 Occupied BW, WiFi B 1MB, 2437MHz



10 Occupied BW, WiFi B 1MB, 2462MHz

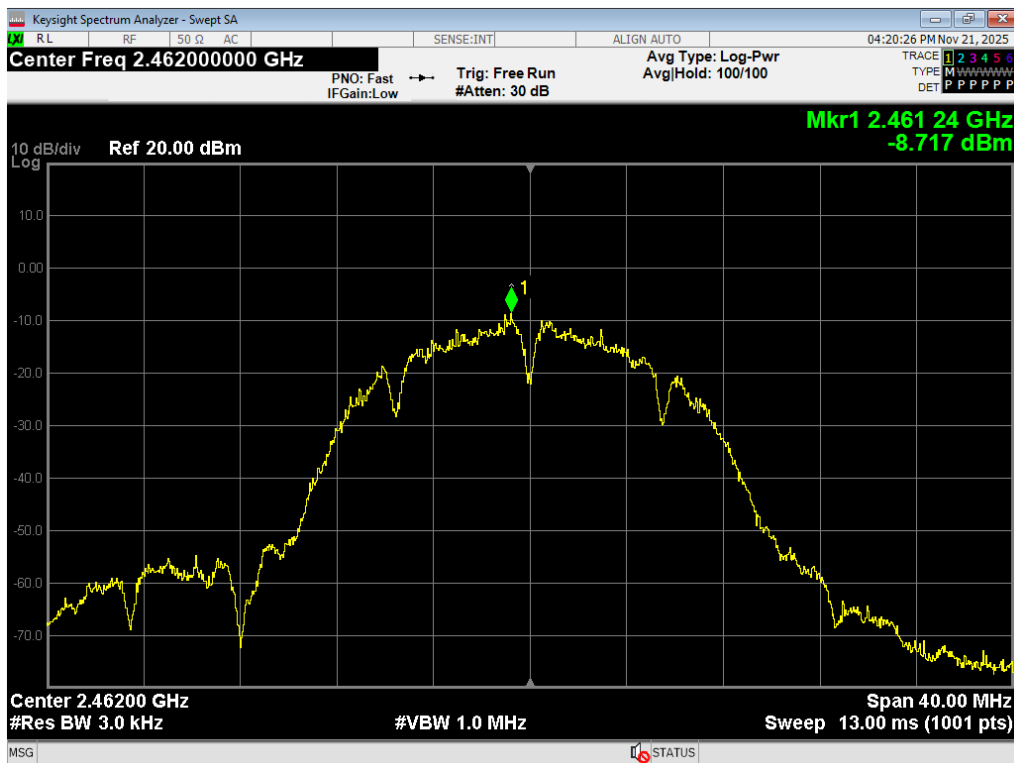


11 PSD, WiFi B 1MB, 2412MHz

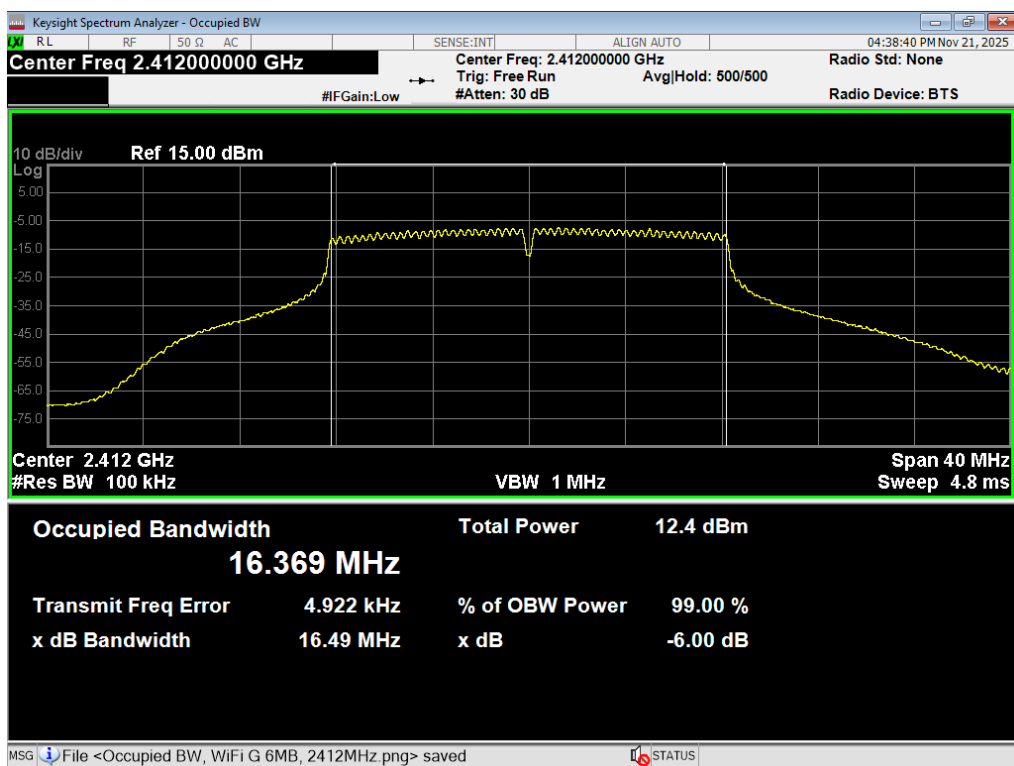


12 PSD, WiFi B 1MB, 2437MHz

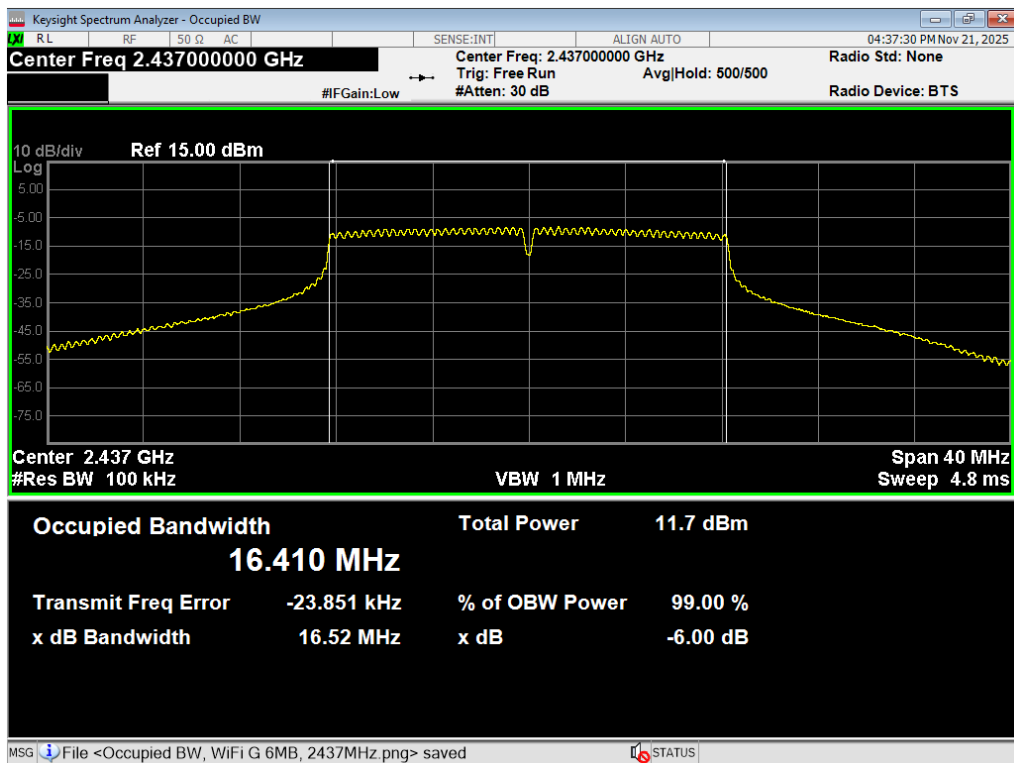
|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
| Prepared for:  | Garmin International, Inc. |     |   |



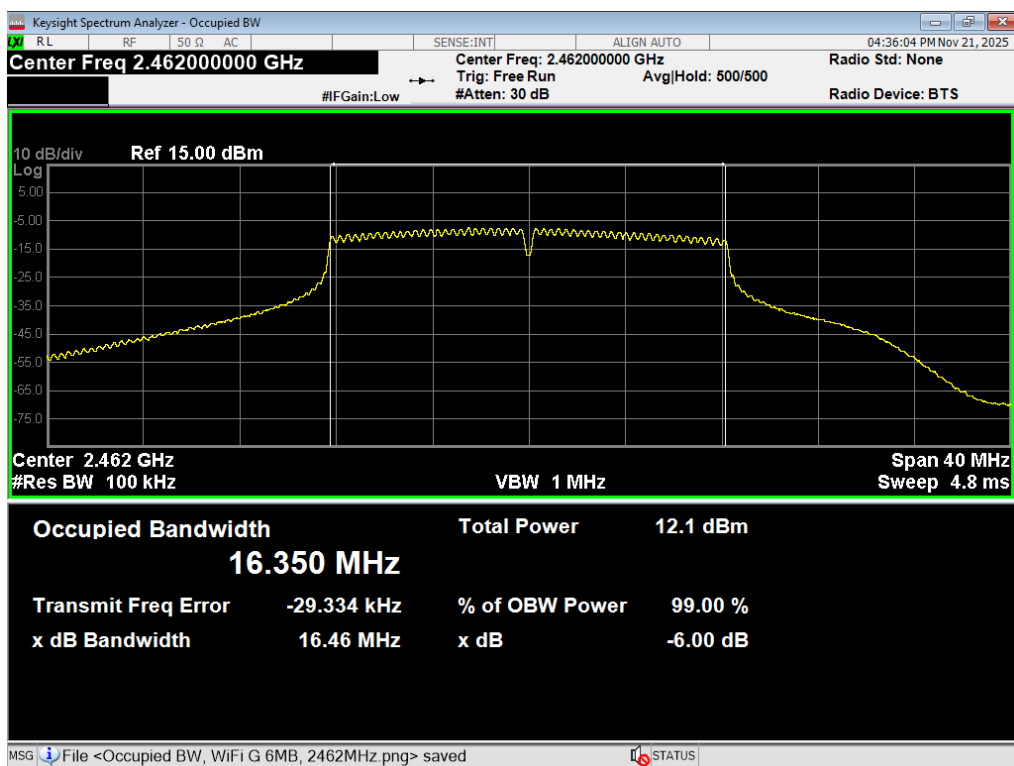
13 PSD, WiFi B 1MB, 2462MHz



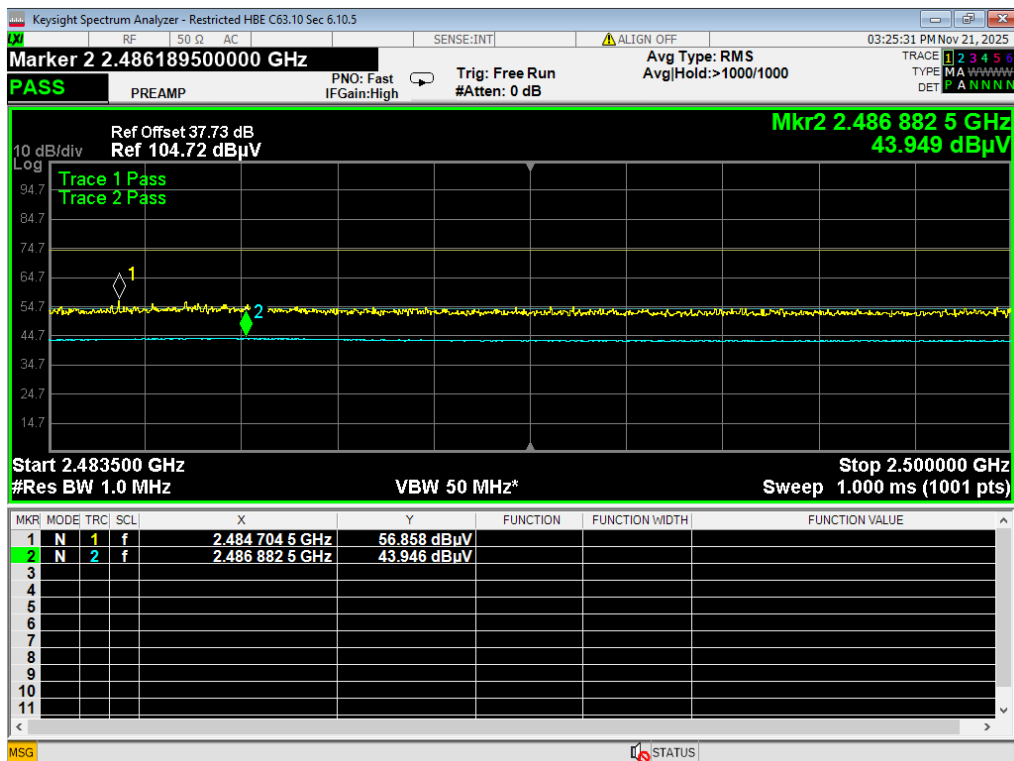
14 6dB BW, WiFi G 6MB, 2412MHz



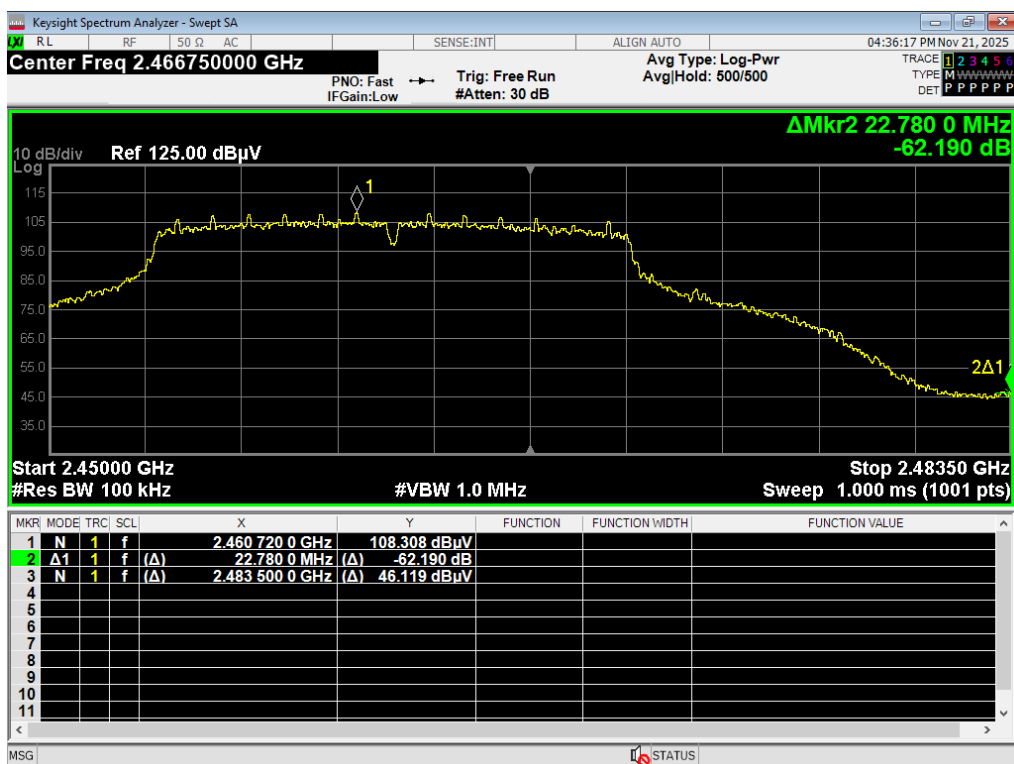
15 6dB BW, WiFi G 6MB, 2437MHz



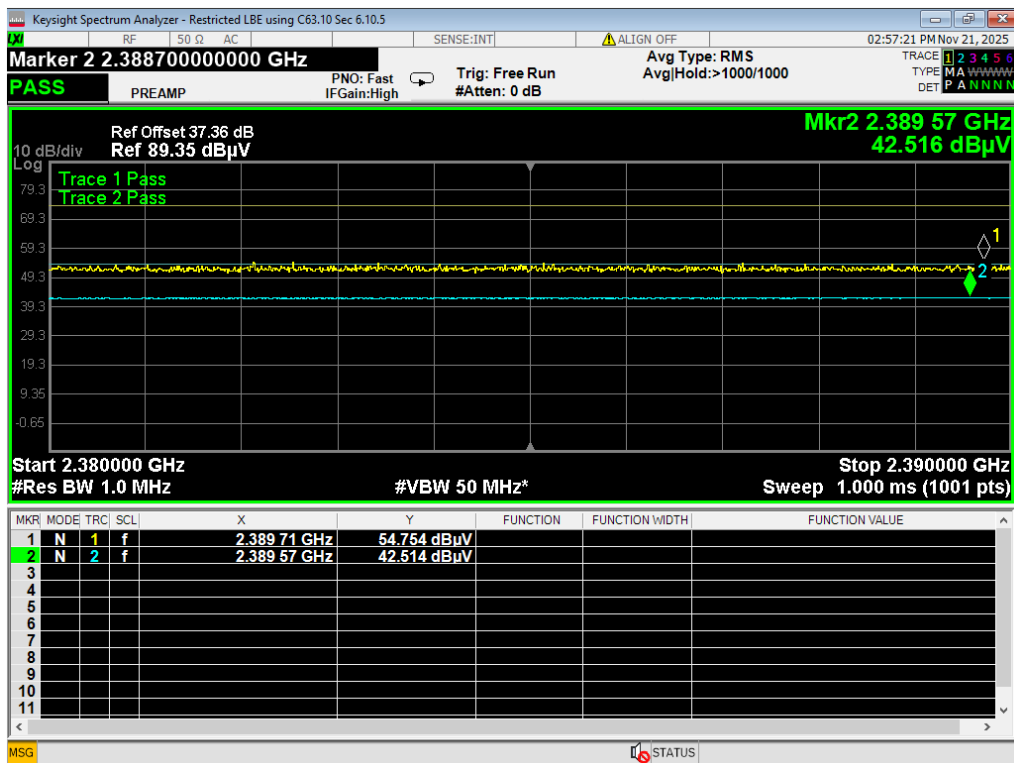
16 6dB BW, WiFi G 6MB, 2462MHz



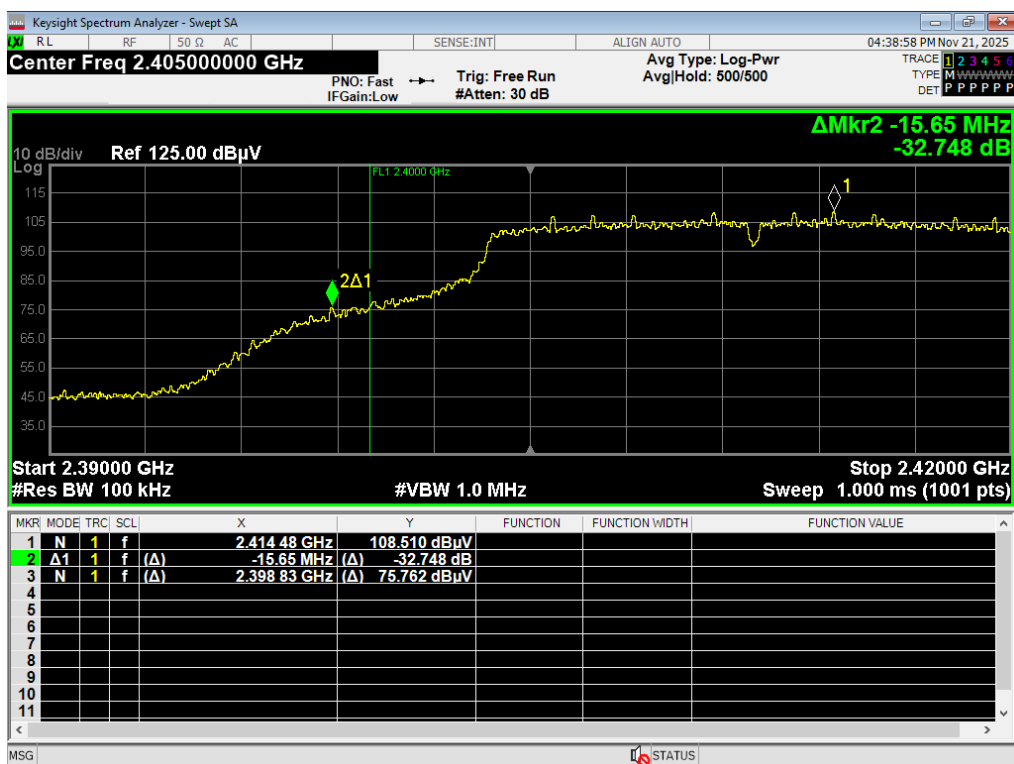
17 HBE Restricted, WIFI B 6MB, 2462MHz



18 HBE Unrestricted, WiFi G 6MB, 2462MHz

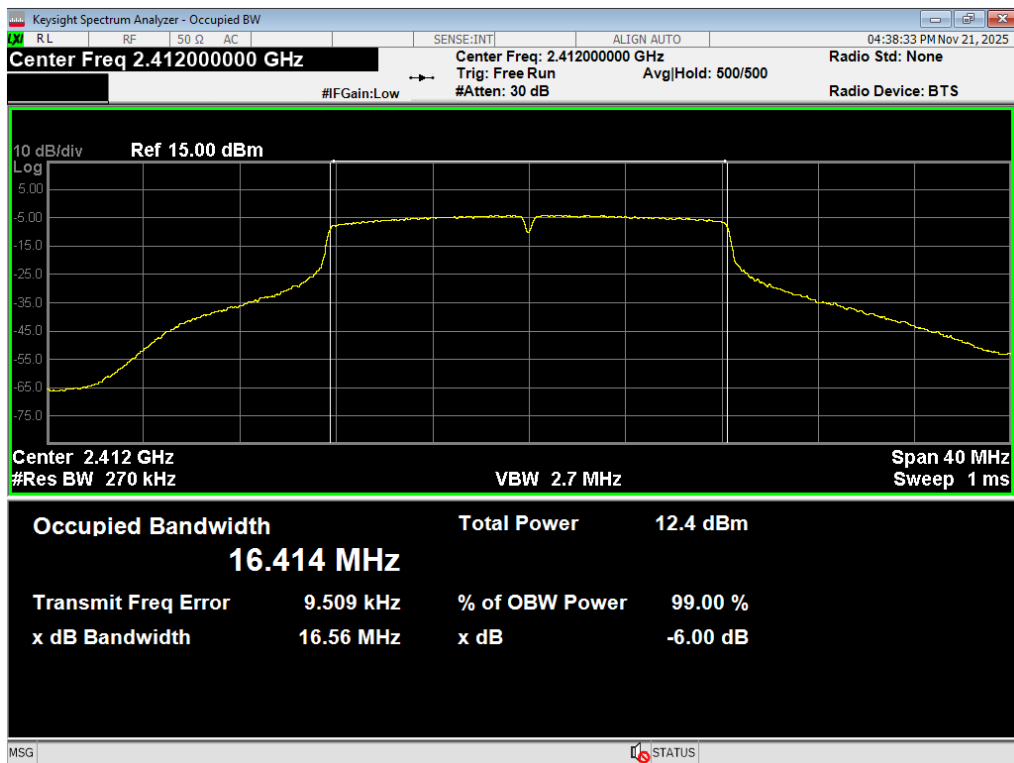


19 LBE Restricted, WIFI B 6MB, 2412MHz

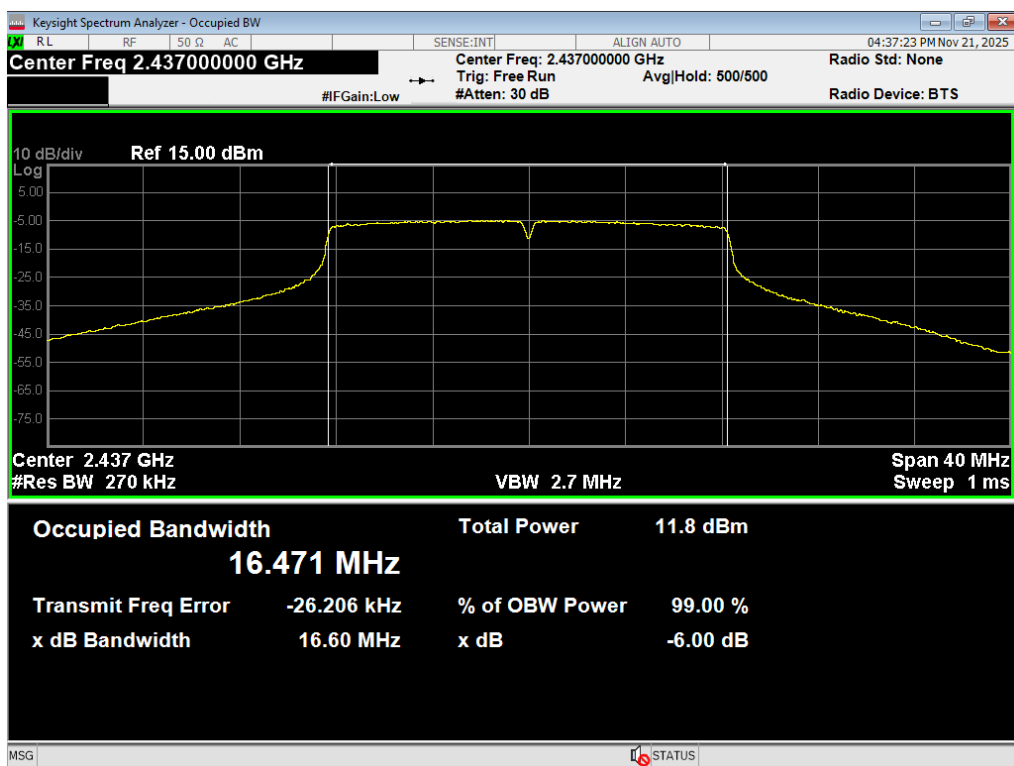


20 LBE Unrestricted, WiFi G 6MB, 2412MHz

|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
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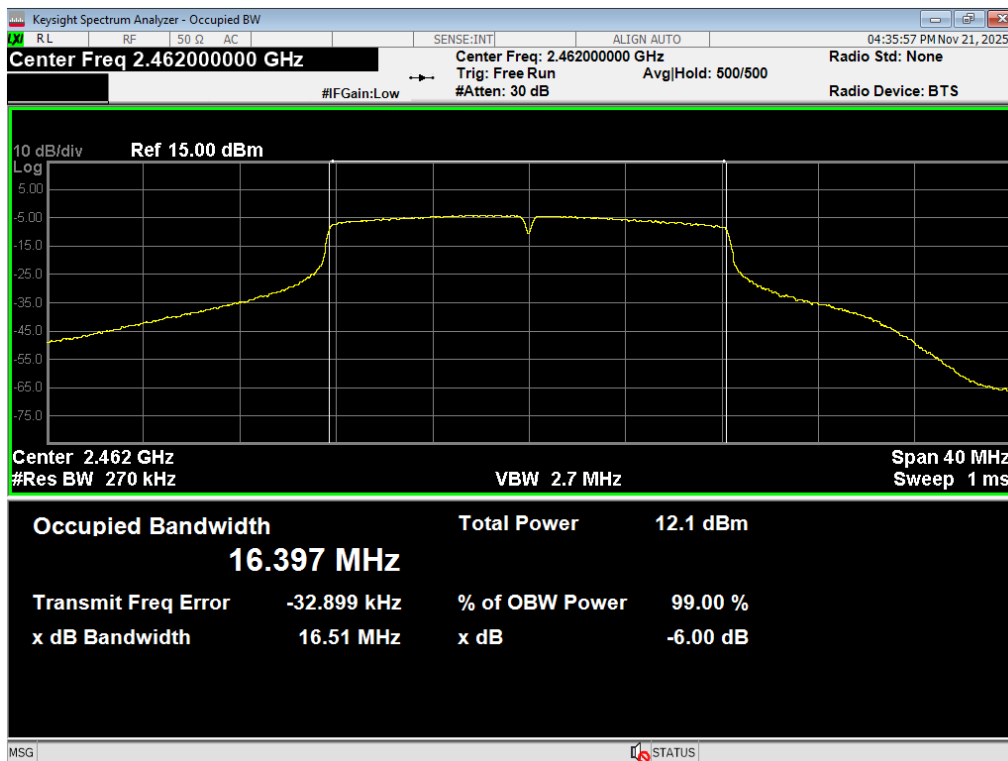


21 Occupied BW, WiFi G 6MB, 2412MHz

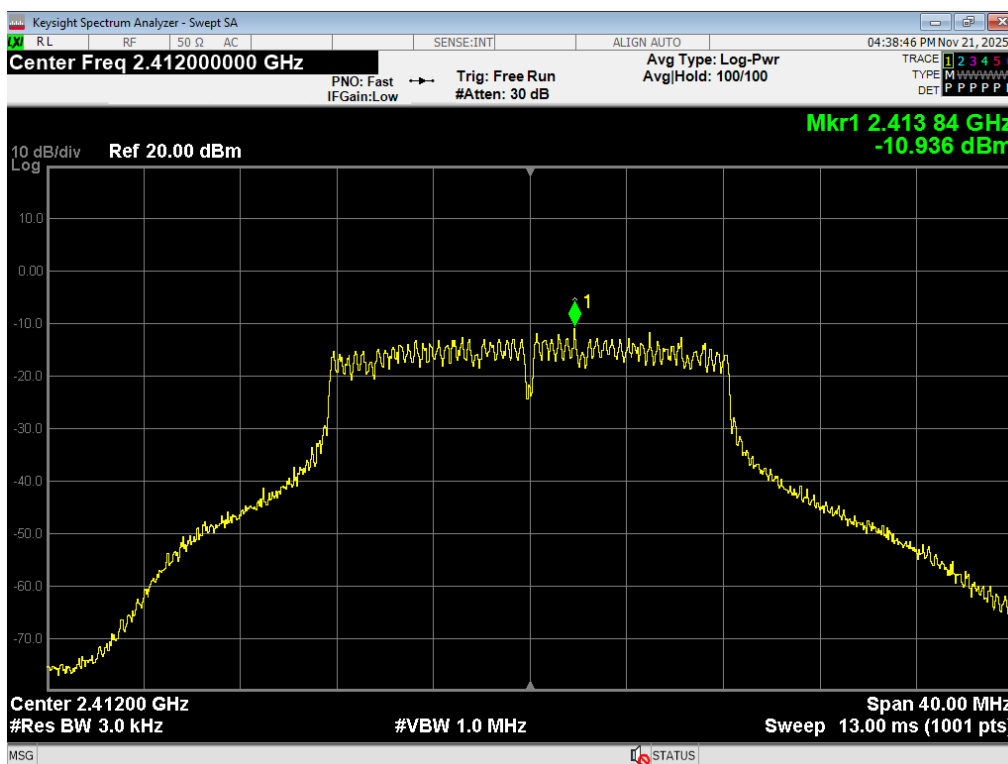


22 Occupied BW, WiFi G 6MB, 2437MHz

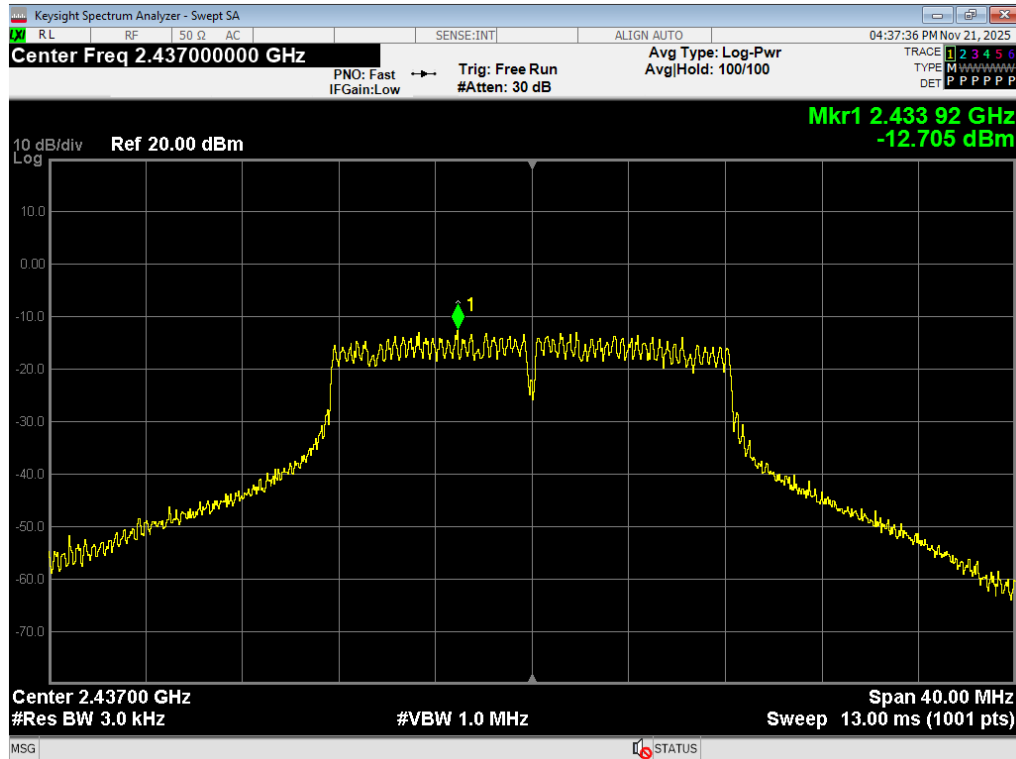
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| Report Number: | R20251104-00-E17           | Rev | C |
| Prepared for:  | Garmin International, Inc. |     |   |



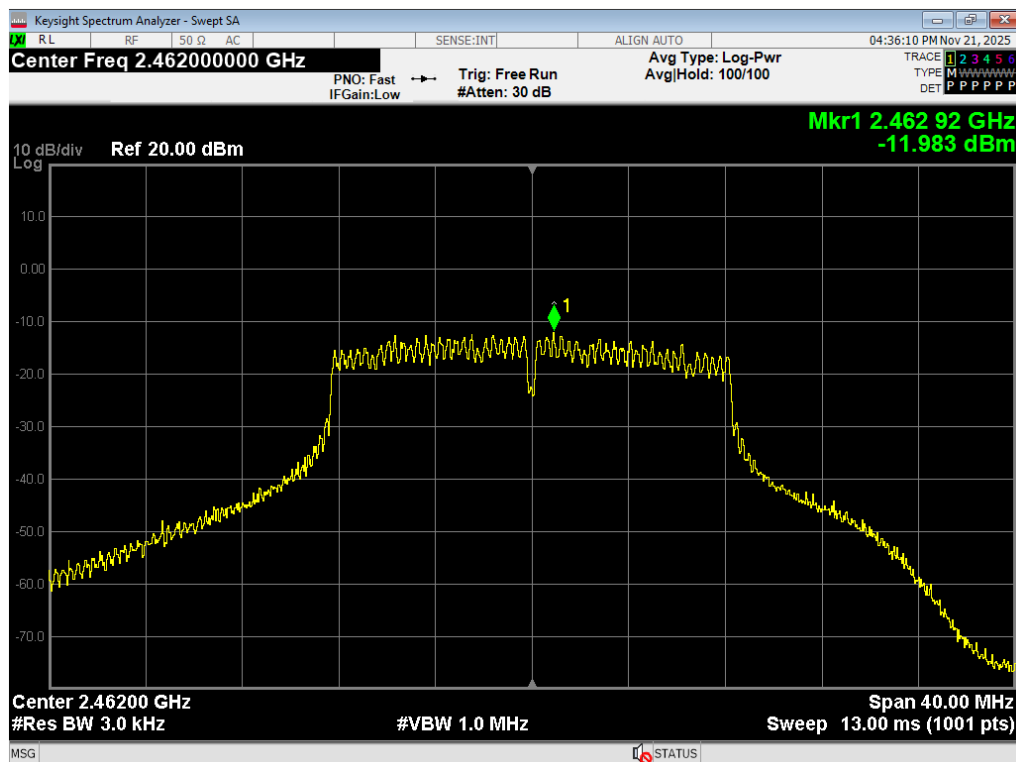
23 Occupied BW, WiFi G 6MB, 2462MHz



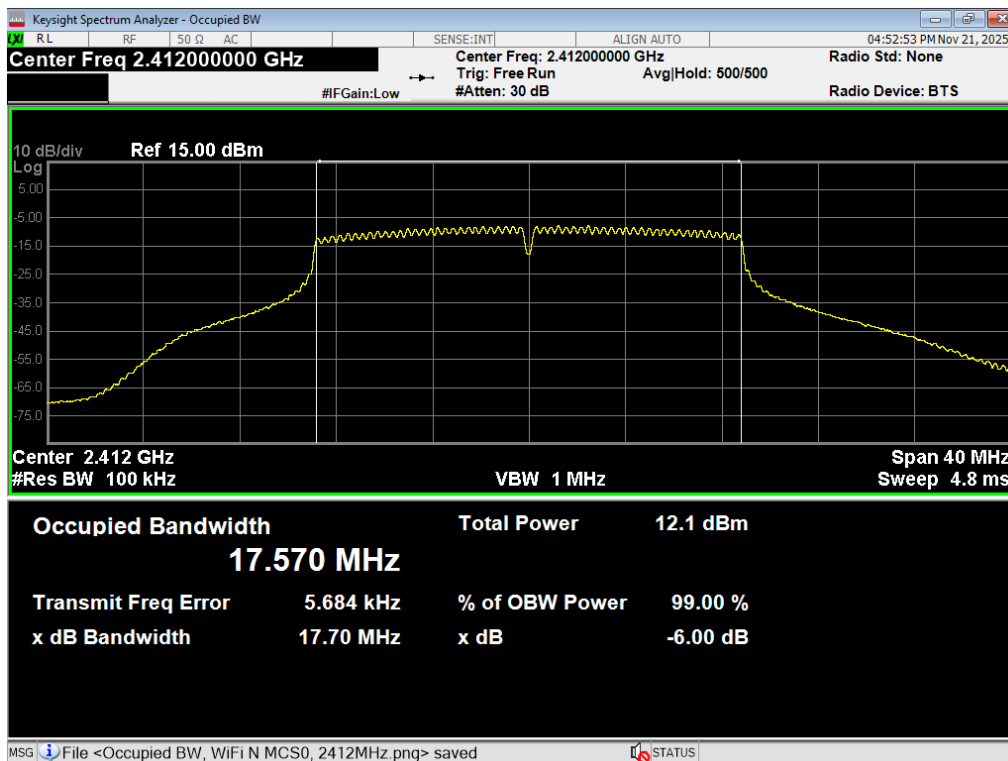
24 PSD, WiFi G 6MB, 2412MHz



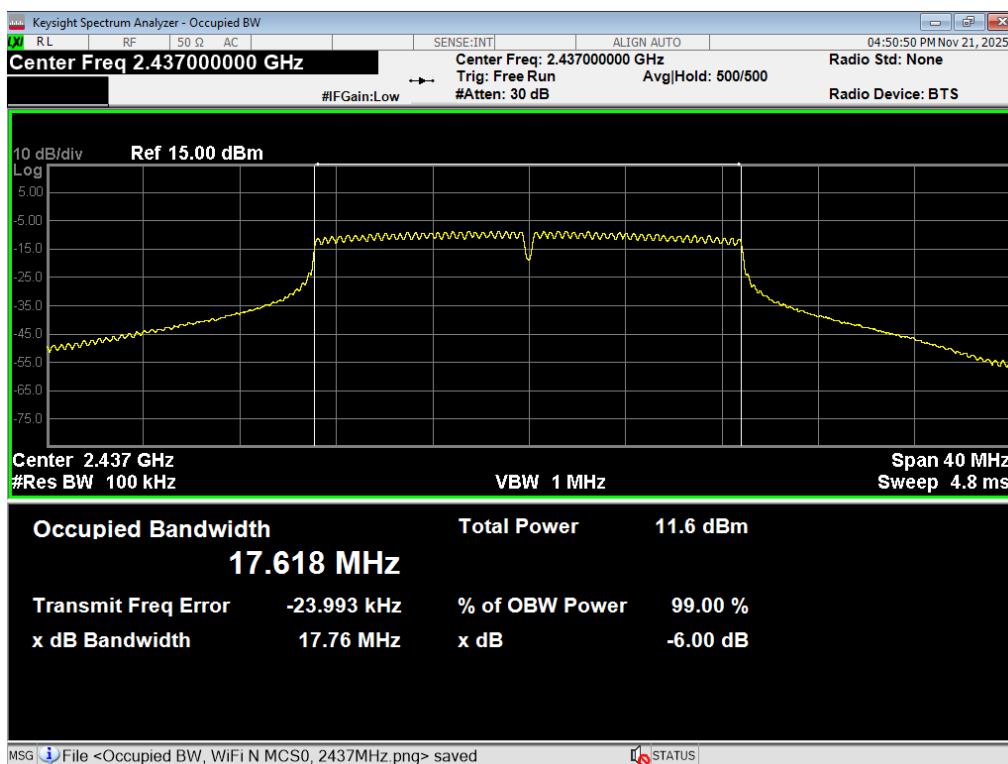
25 PSD, WiFi G 6MB, 2437MHz



26 PSD, WiFi G 6MB, 2462MHz

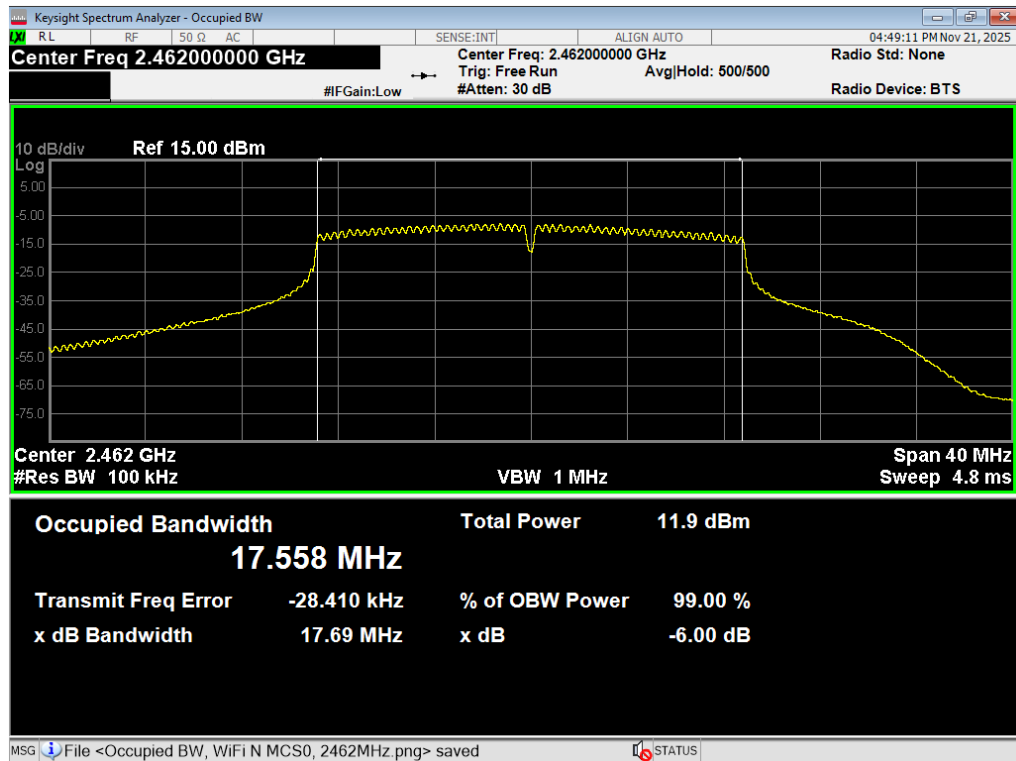


27 6dB BW, WiFi N MCS0, 2412MHz

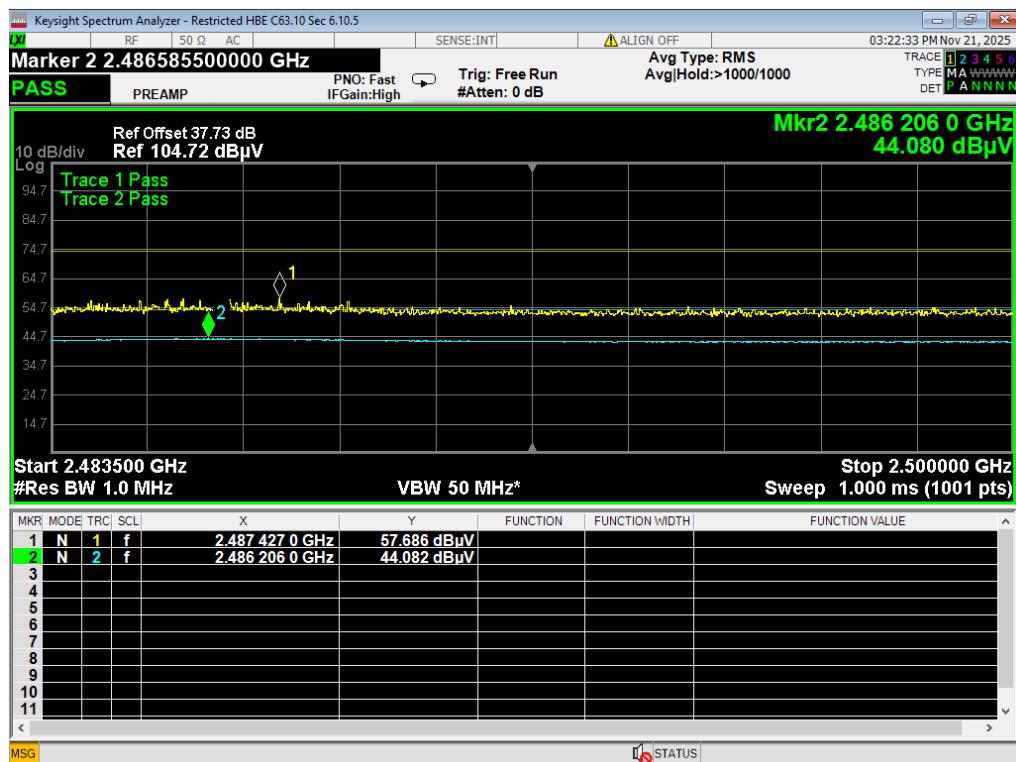


28 6dB BW, WiFi N MCS0, 2437MHz

|                                                                                  |                                          |     |   |
|----------------------------------------------------------------------------------|------------------------------------------|-----|---|
|  | Report Number: R20251104-00-E17          | Rev | C |
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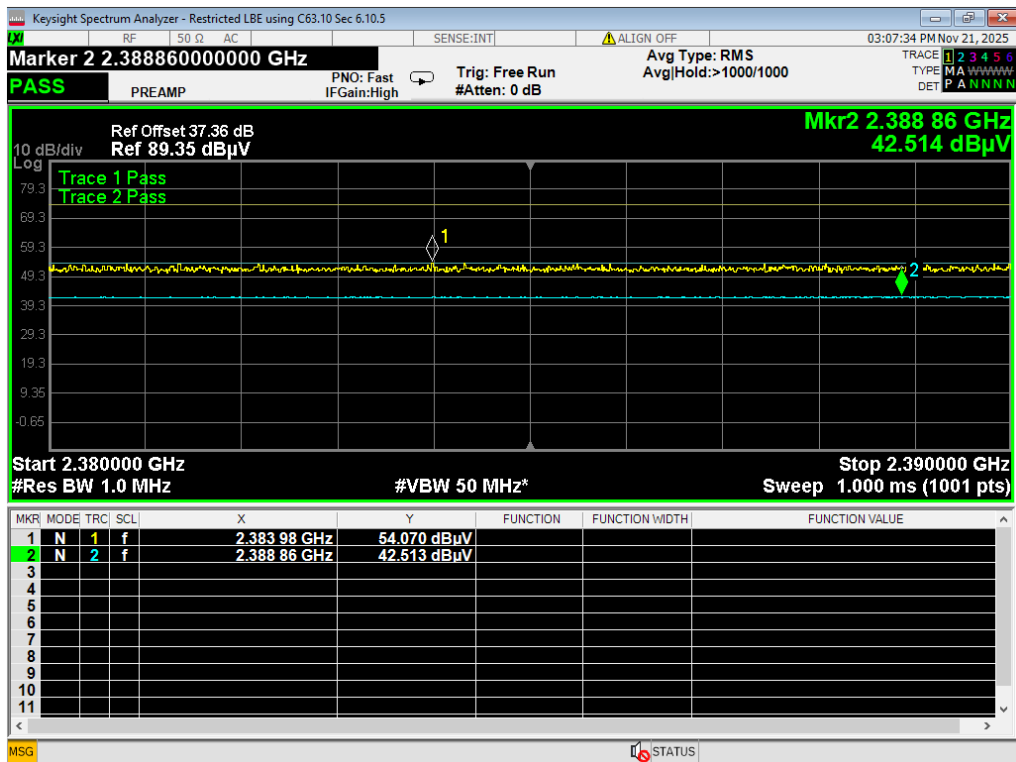
29 6dB BW, WiFi N MCS0, 2462MHz



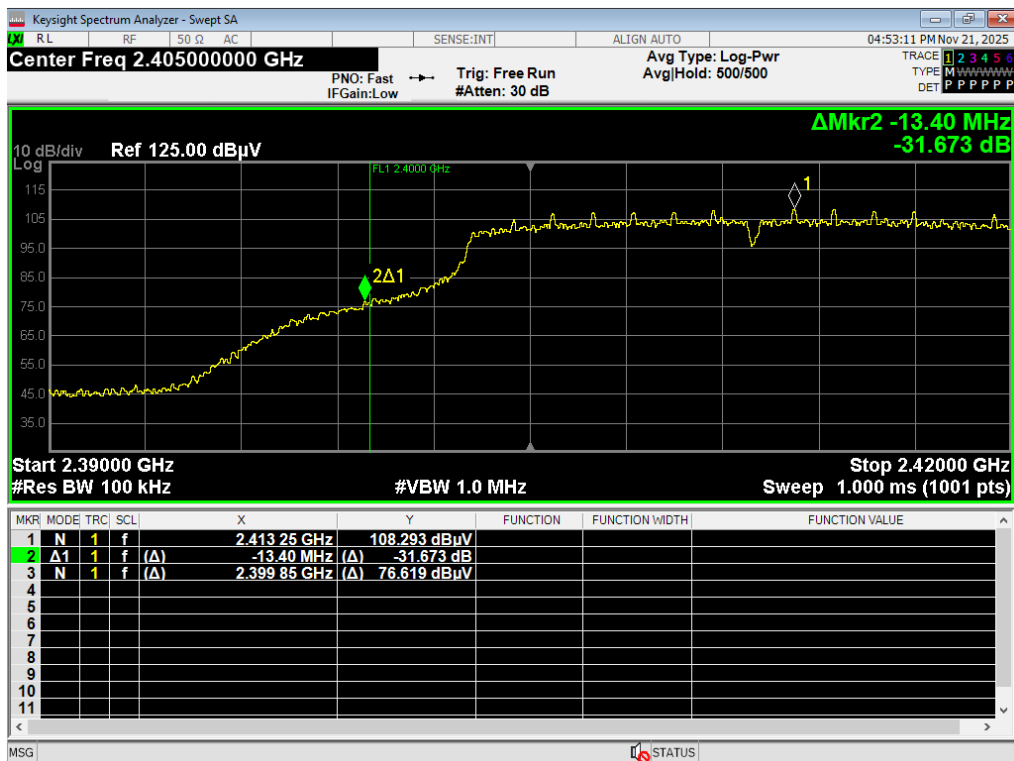
30 HBE Restricted, WIFI N MCS0, 2462MHz



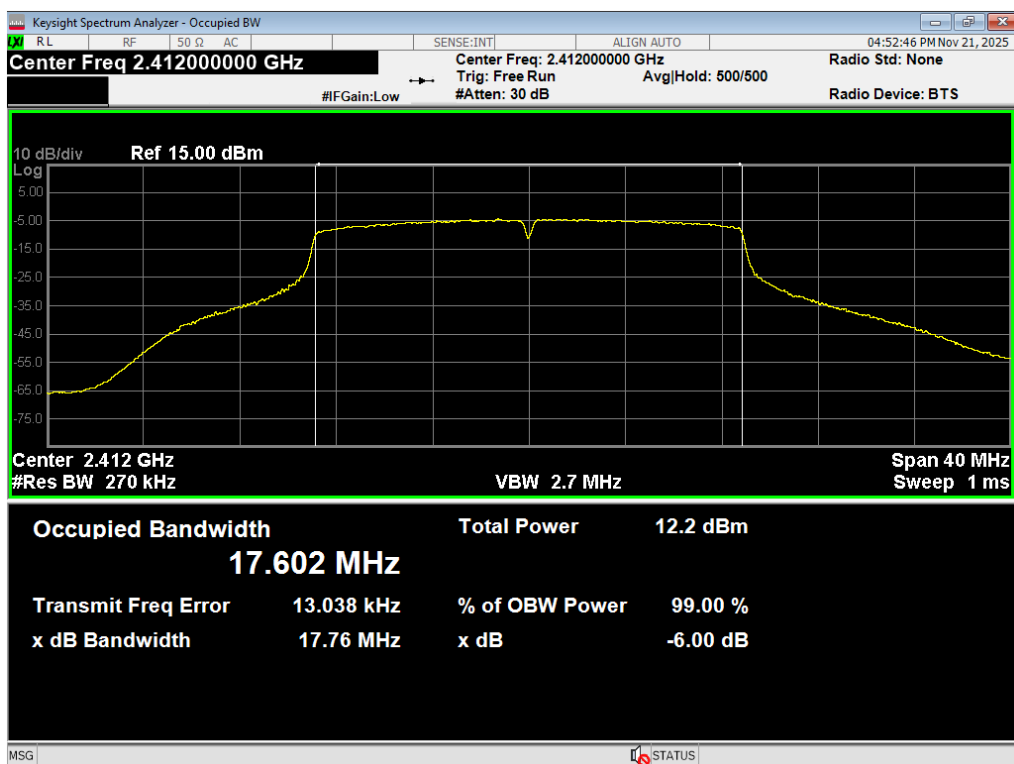
31 HBE Unrestricted, WiFi N MCS0, 2462MHz



32 LBE Restricted, WIFI N MCS0, 2412MHz

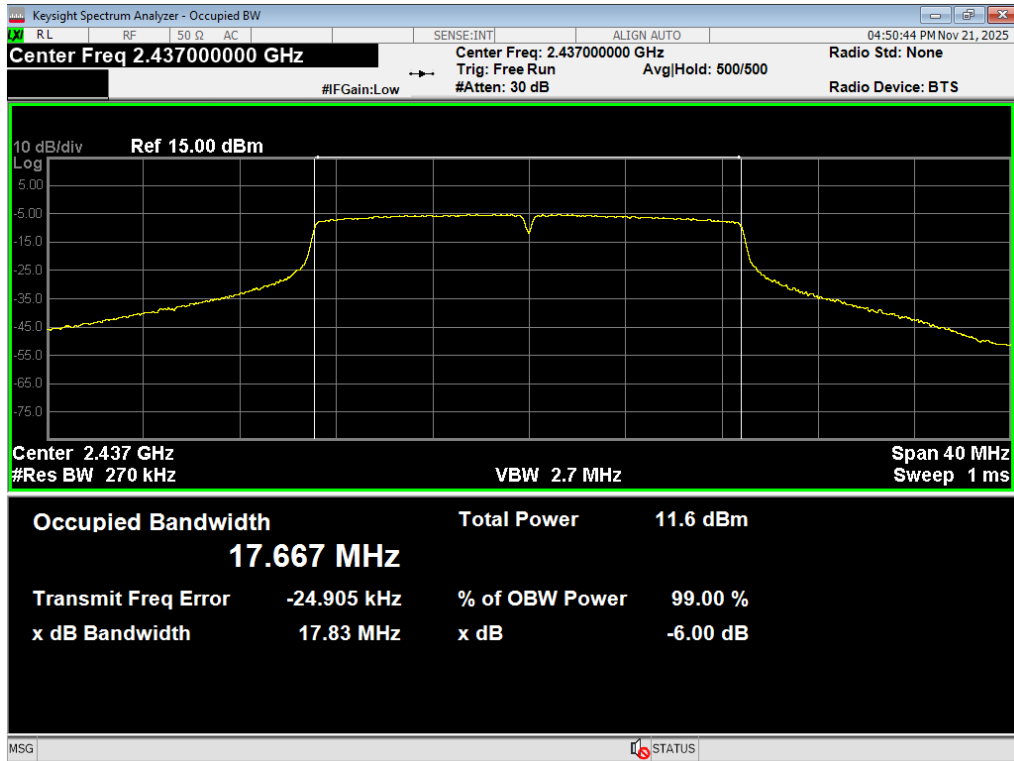


33 LBE Unrestricted, WiFi N MCS0, 2412MHz

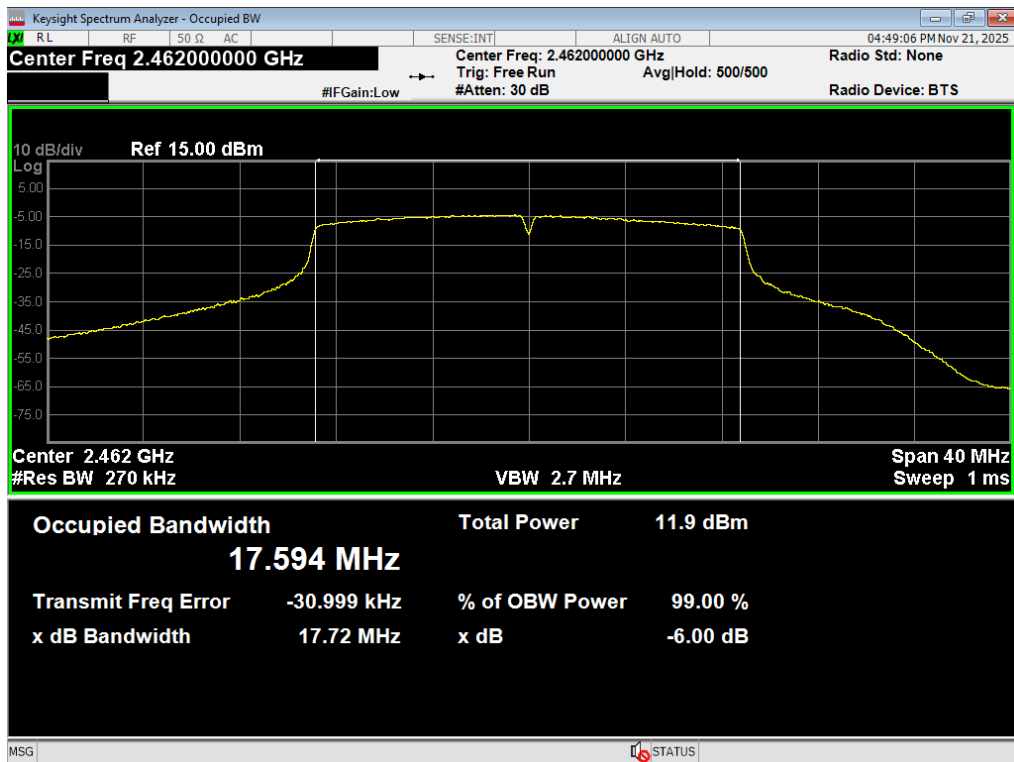


34 Occupied BW, WiFi N MCS0, 2412MHz

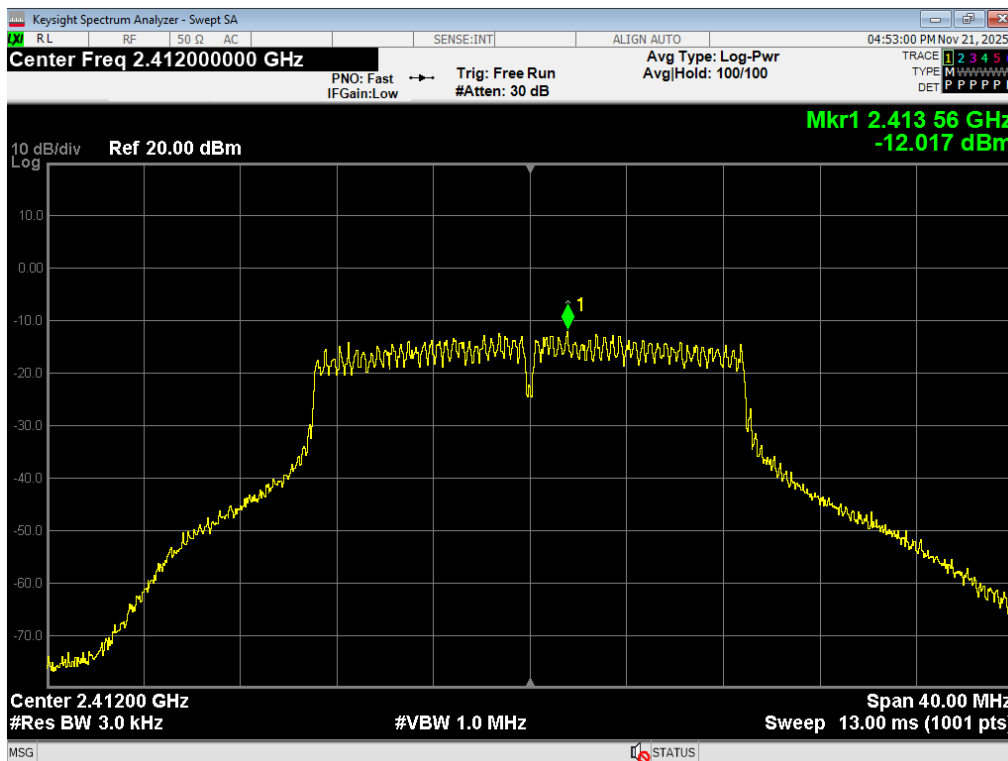
|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
| Prepared for:  | Garmin International, Inc. |     |   |



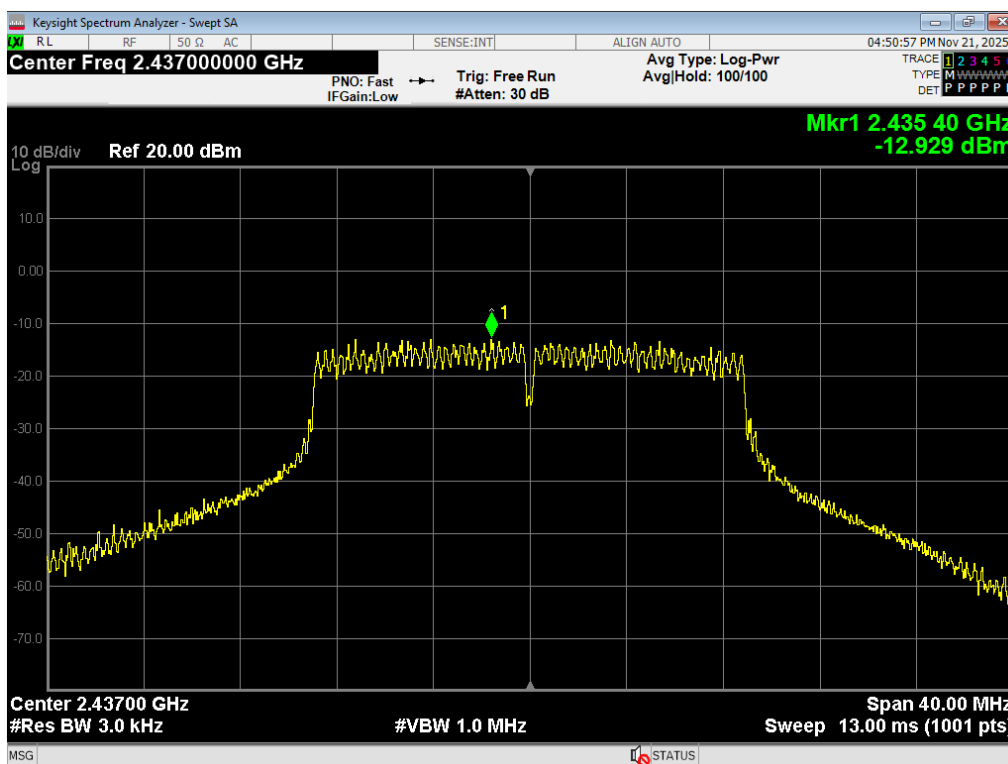
35 Occupied BW, WiFi N MCS0, 2437MHz



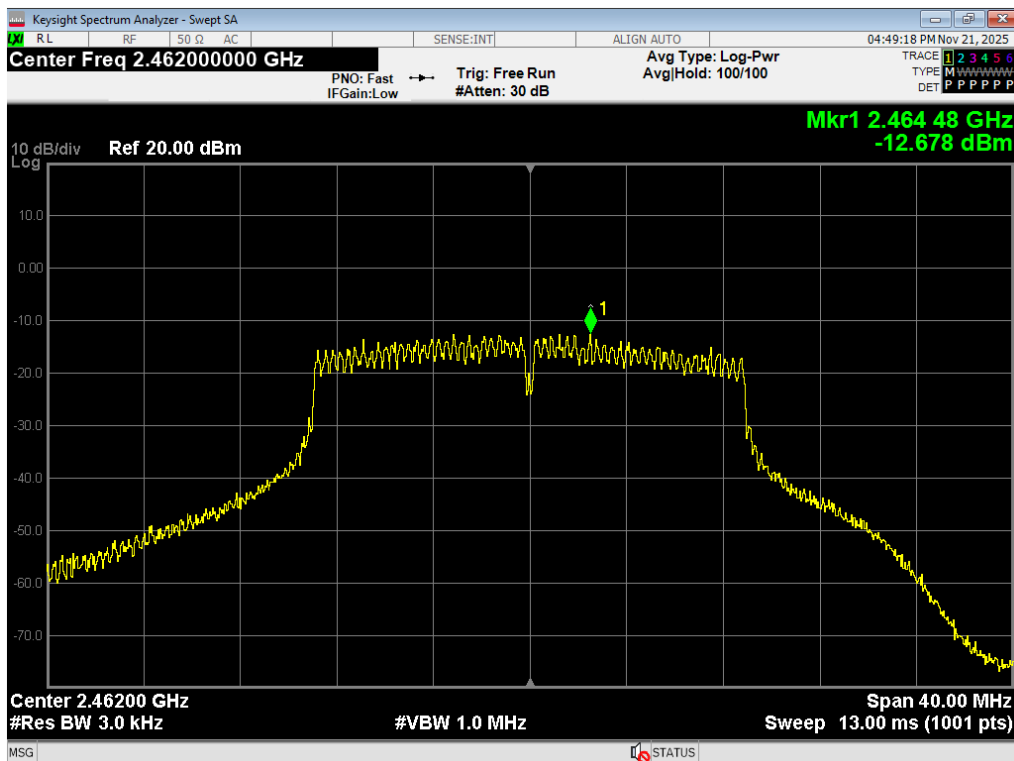
36 Occupied BW, WiFi N MCS0, 2462MHz



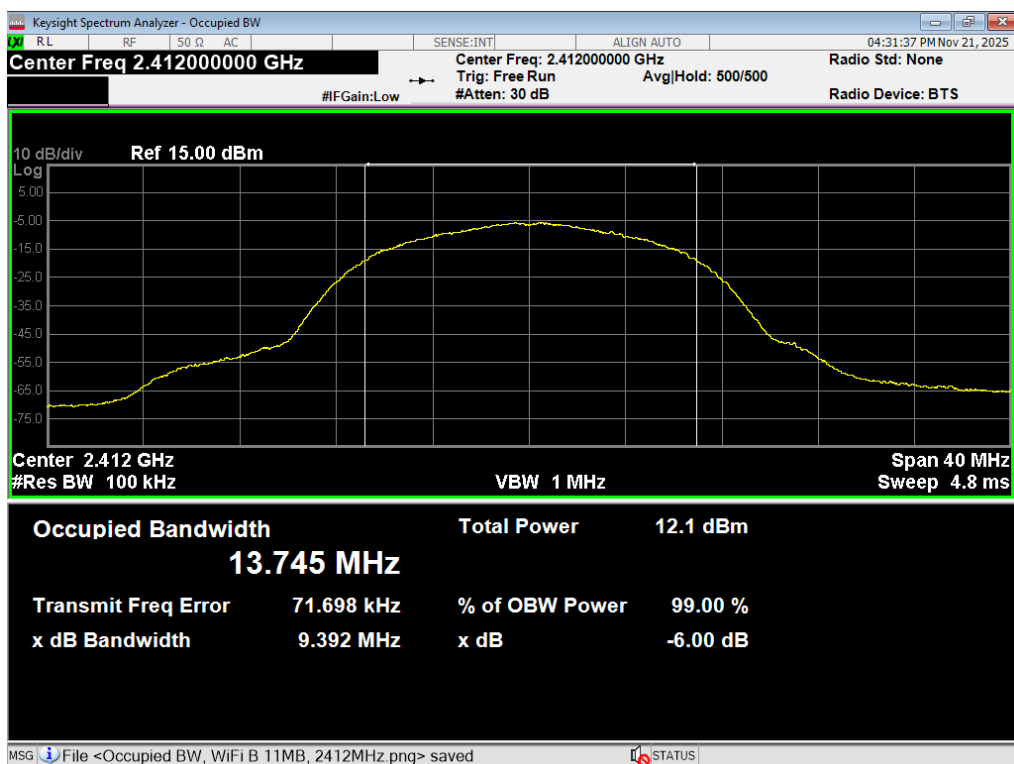
37 PSD, WiFi N MCS0, 2412MHz



38 PSD, WiFi N MCS0, 2437MHz

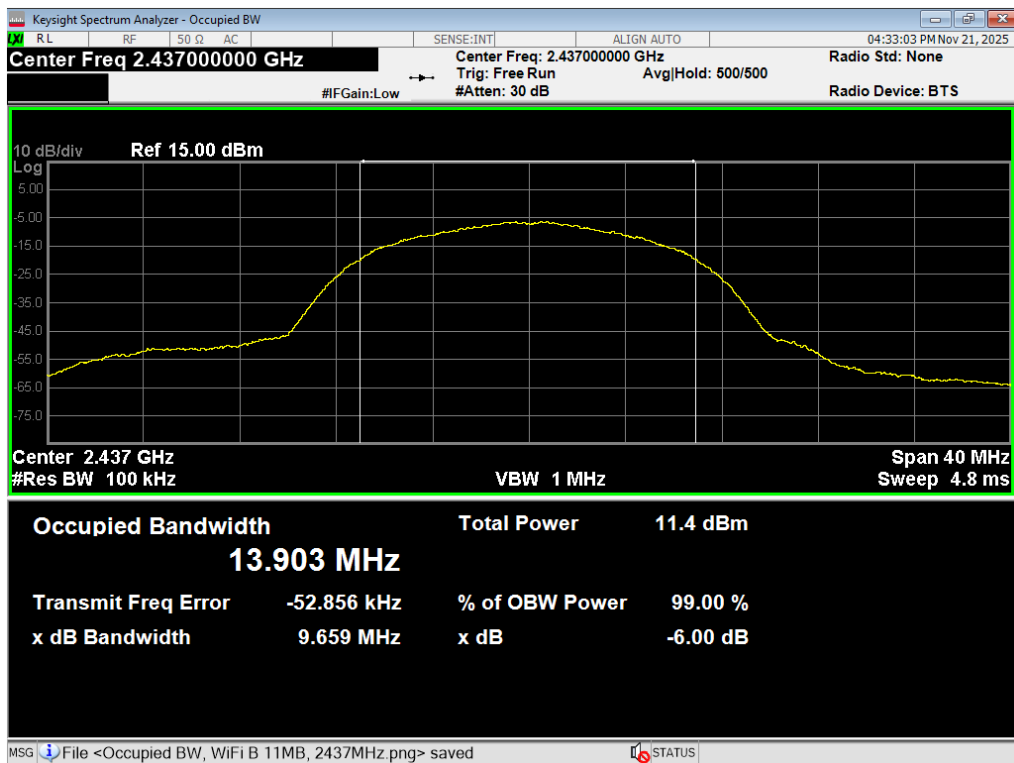


39 PSD, WiFi N MCS0, 2462MHz

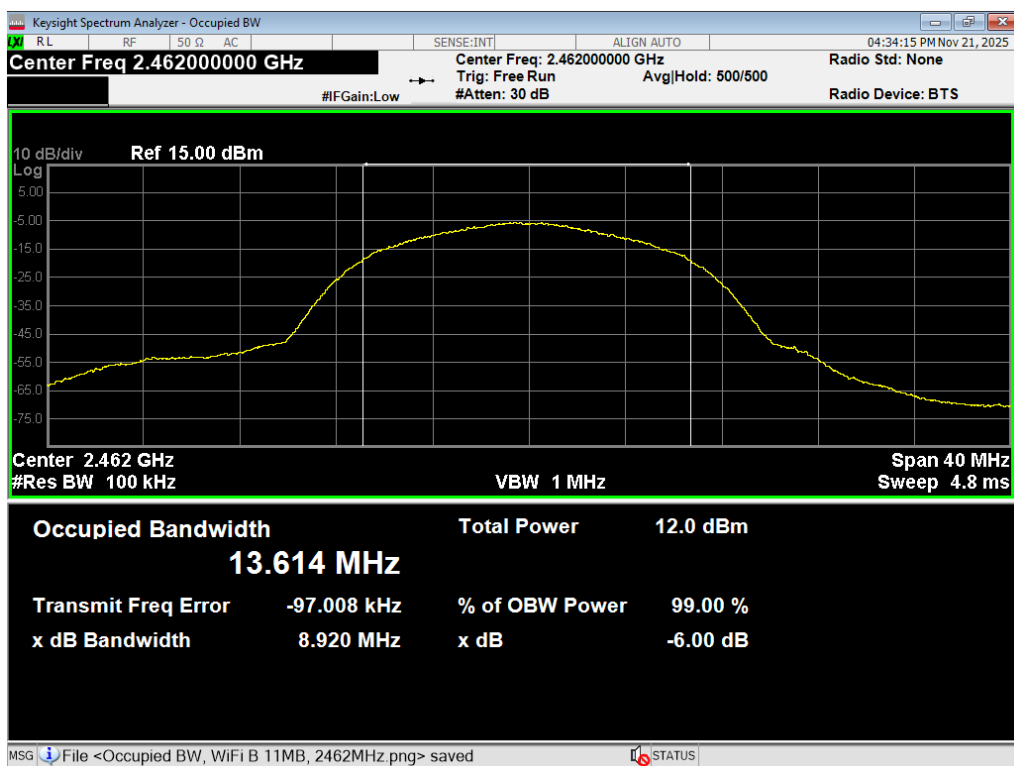


40 6dB BW, WiFi B 11MB, 2412MHz

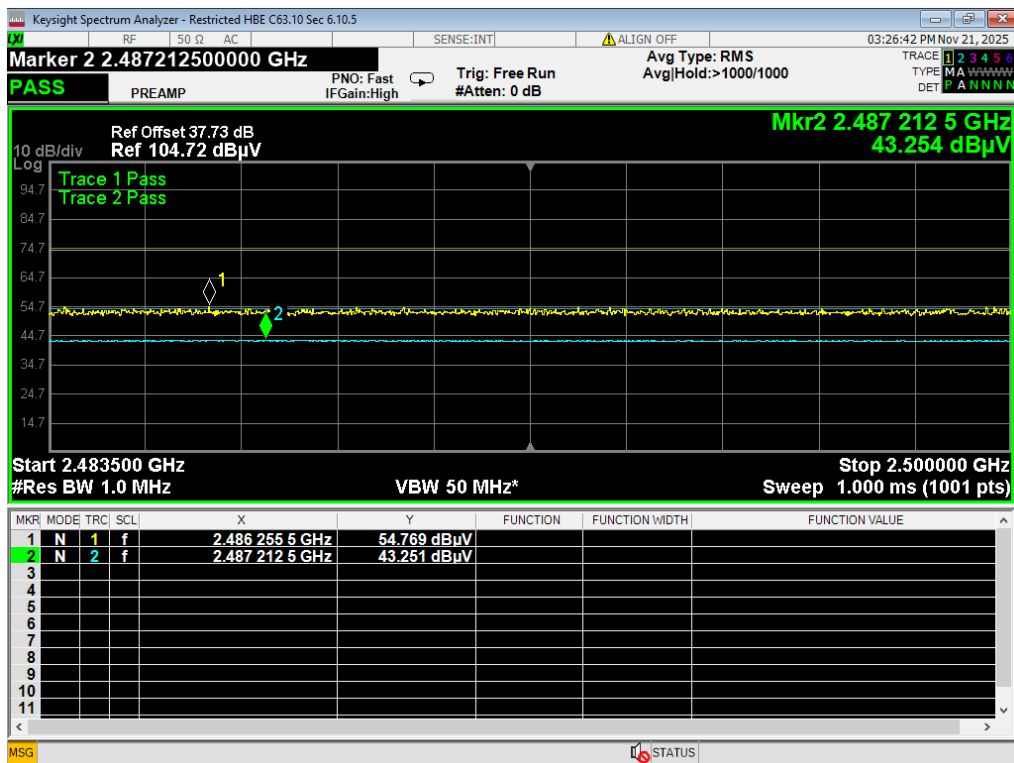
|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
| Prepared for:  | Garmin International, Inc. |     |   |



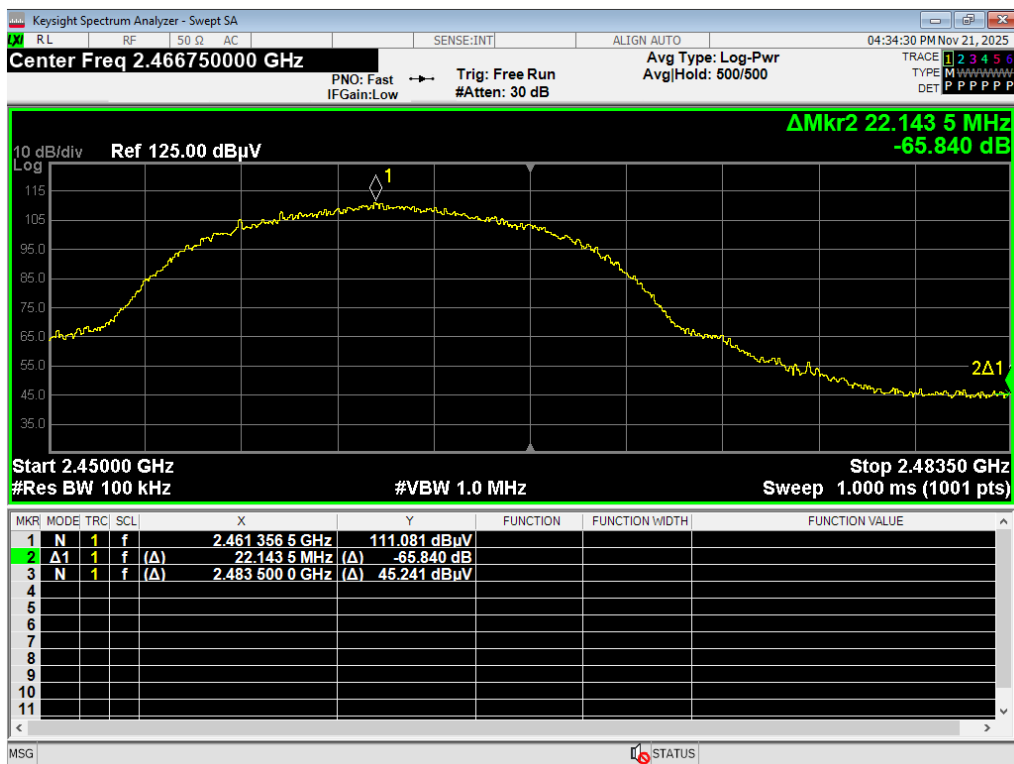
41 6dB BW, WiFi B 11MB, 2437MHz



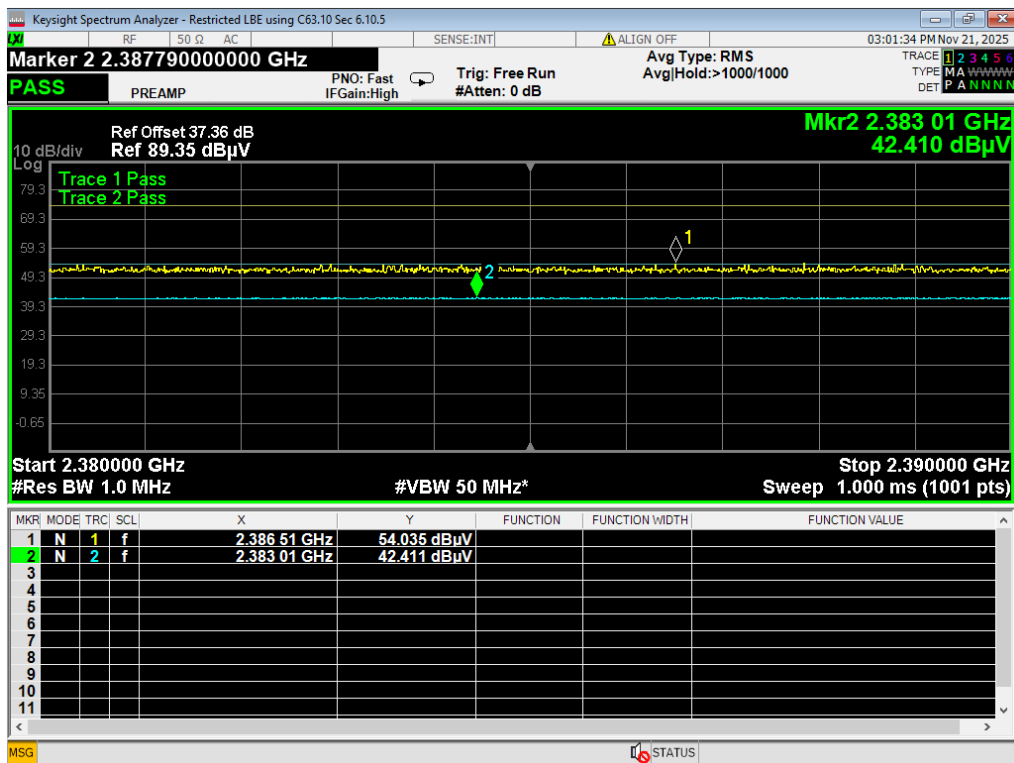
42 6dB BW, WiFi B 11MB, 2462MHz



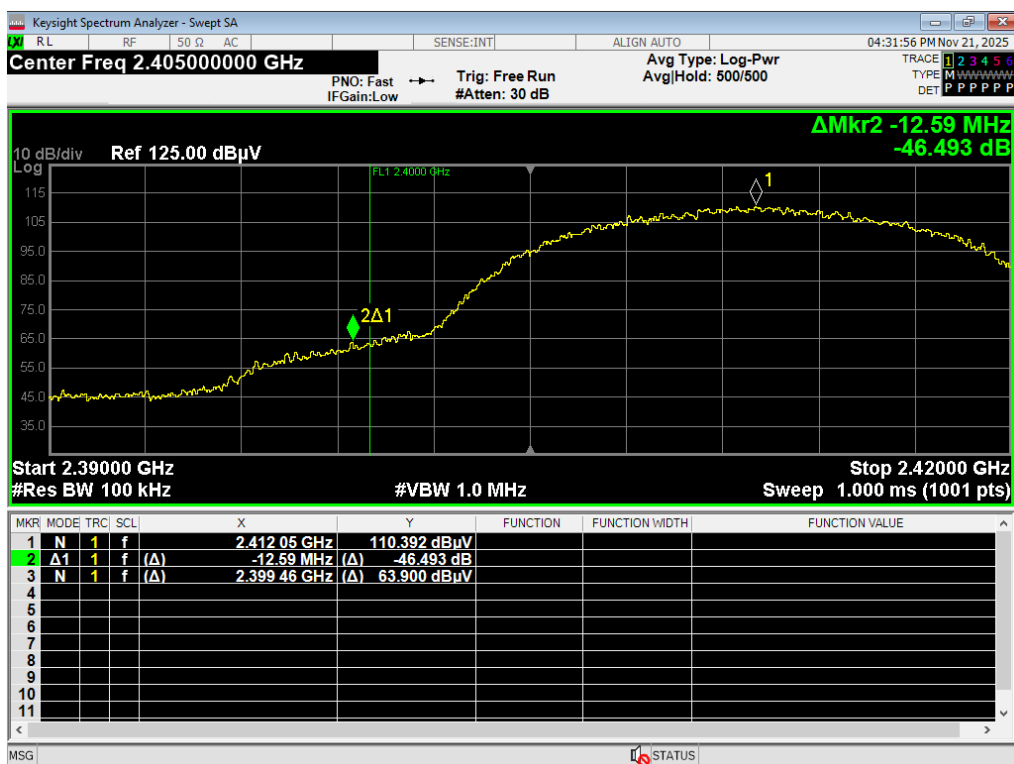
43 HBE Restricted, WIFI B 11MB, 2462MHz



44 HBE Unrestricted, WiFi B 11MB, 2462MHz

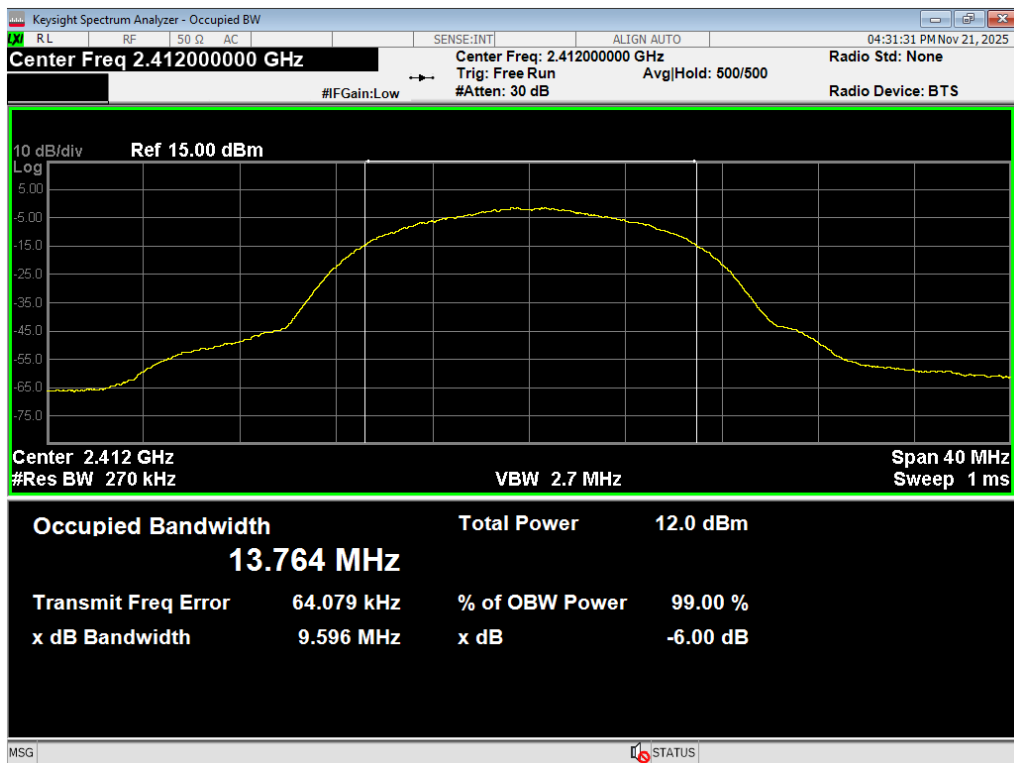


45 LBE Restricted, WIFI B 11MB, 2412MHz

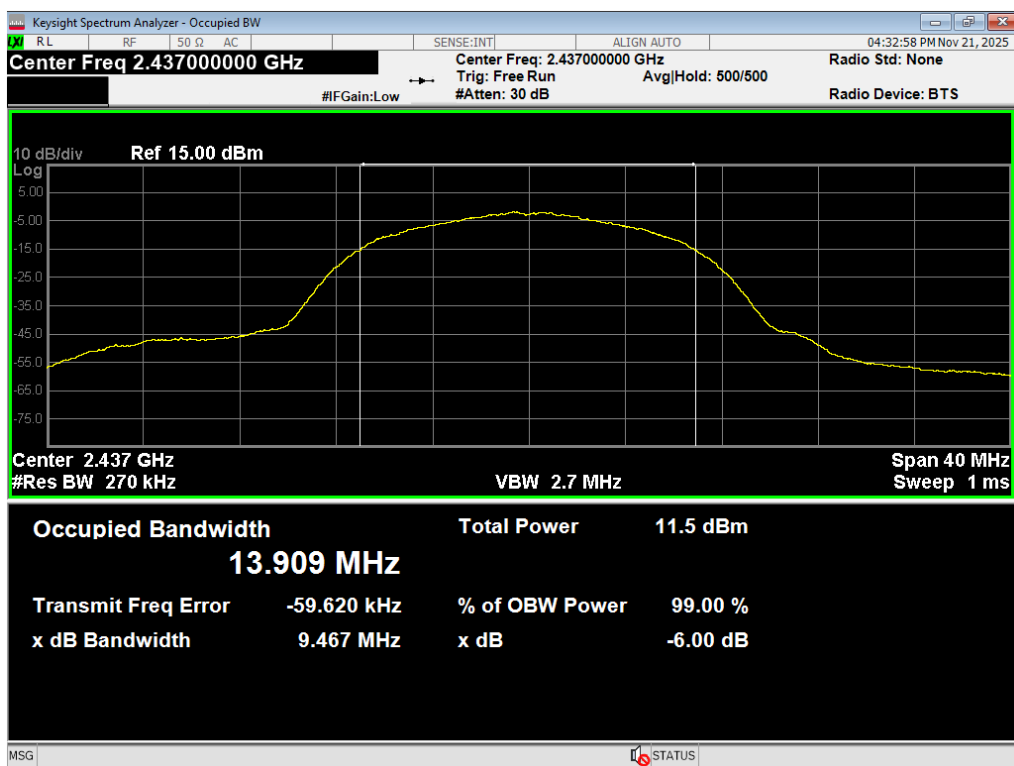


46 LBE Unrestricted, WiFi B 11MB, 2412MHz

|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
| Prepared for:  | Garmin International, Inc. |     |   |

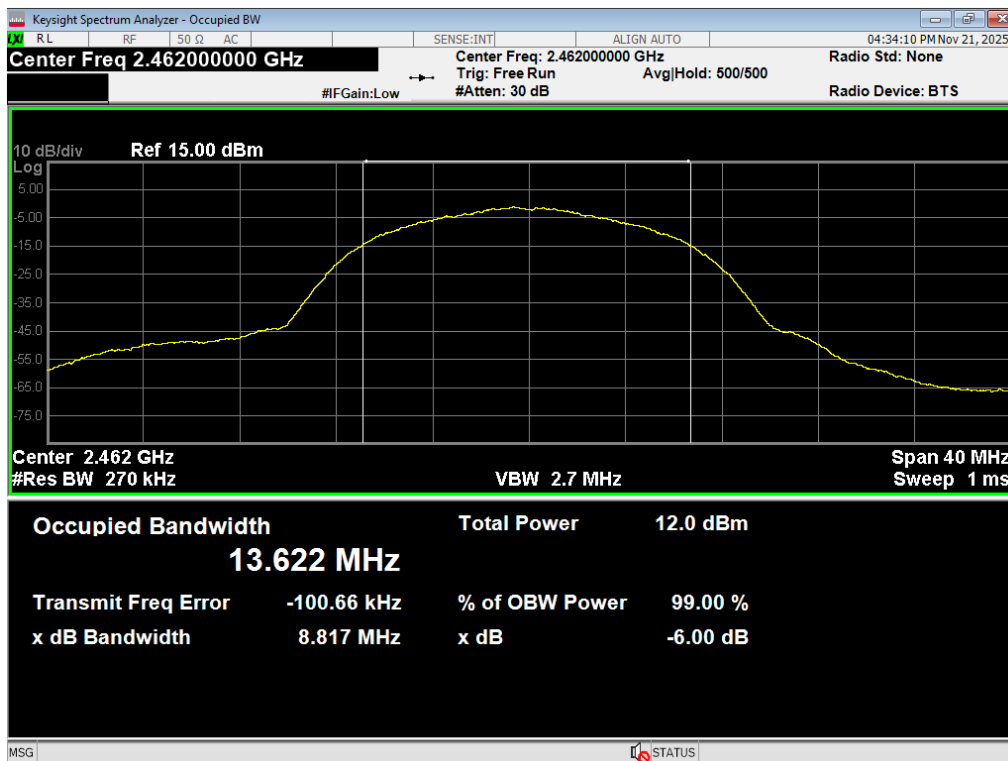


47 Occupied BW, WiFi B 11MB, 2412MHz

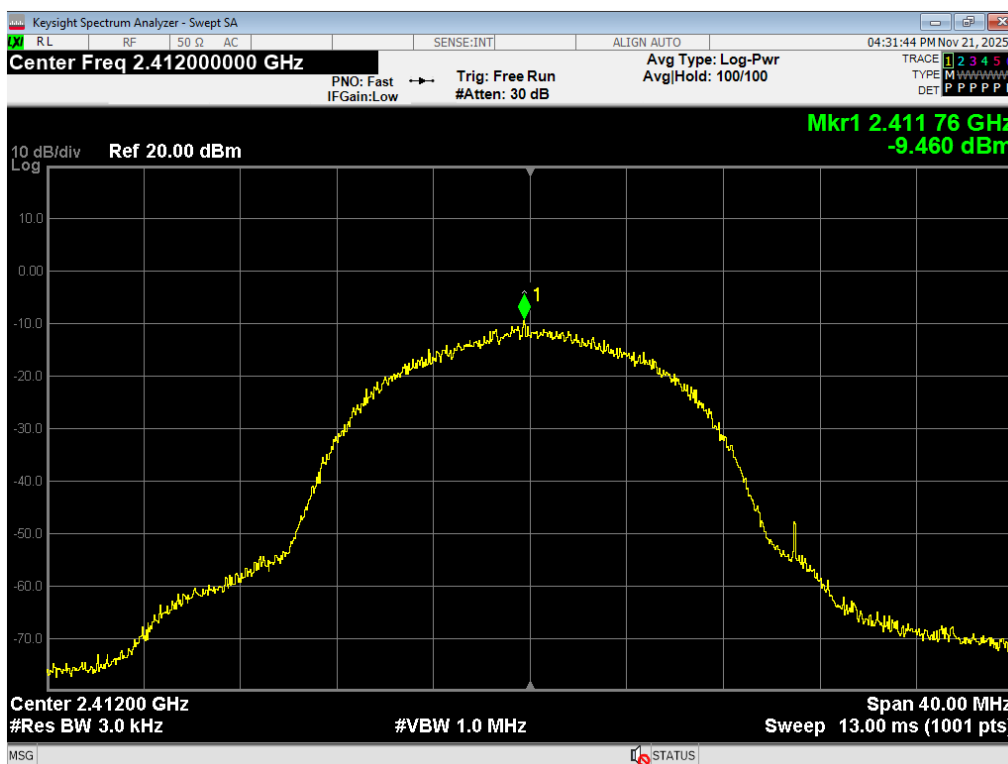


48 Occupied BW, WiFi B 11MB, 2437MHz

|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
| Prepared for:  | Garmin International, Inc. |     |   |

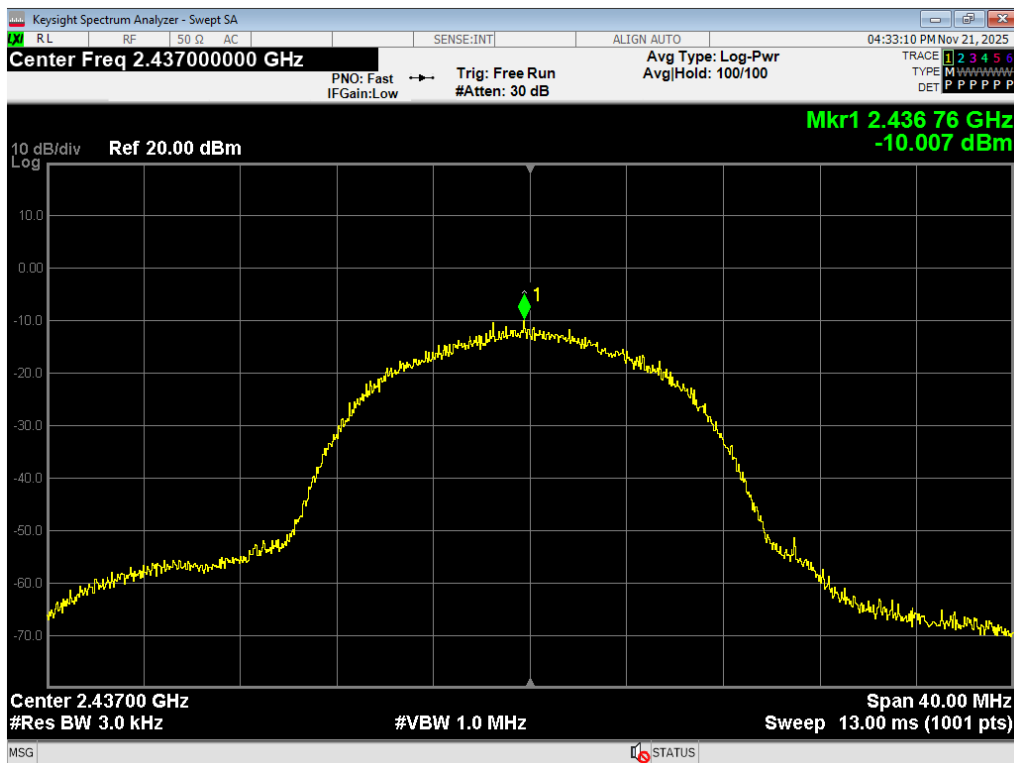


49 Occupied BW, WiFi B 11MB, 2462MHz

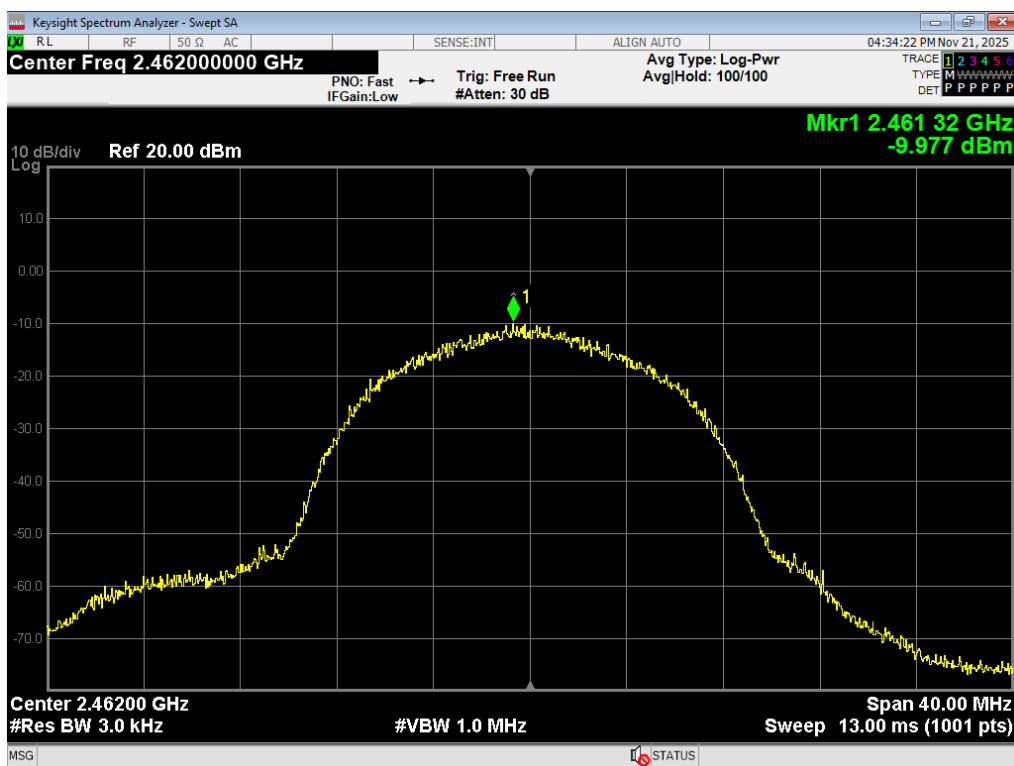


50 PSD, WiFi B 11MB, 2412MHz

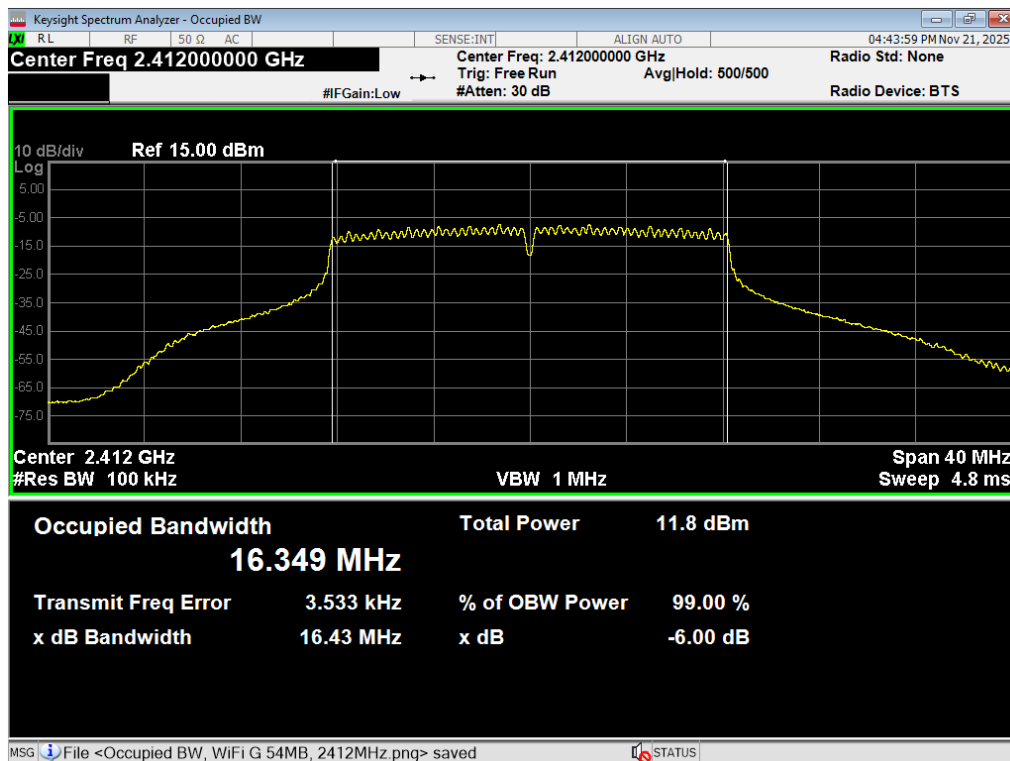
|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
| Prepared for:  | Garmin International, Inc. |     |   |



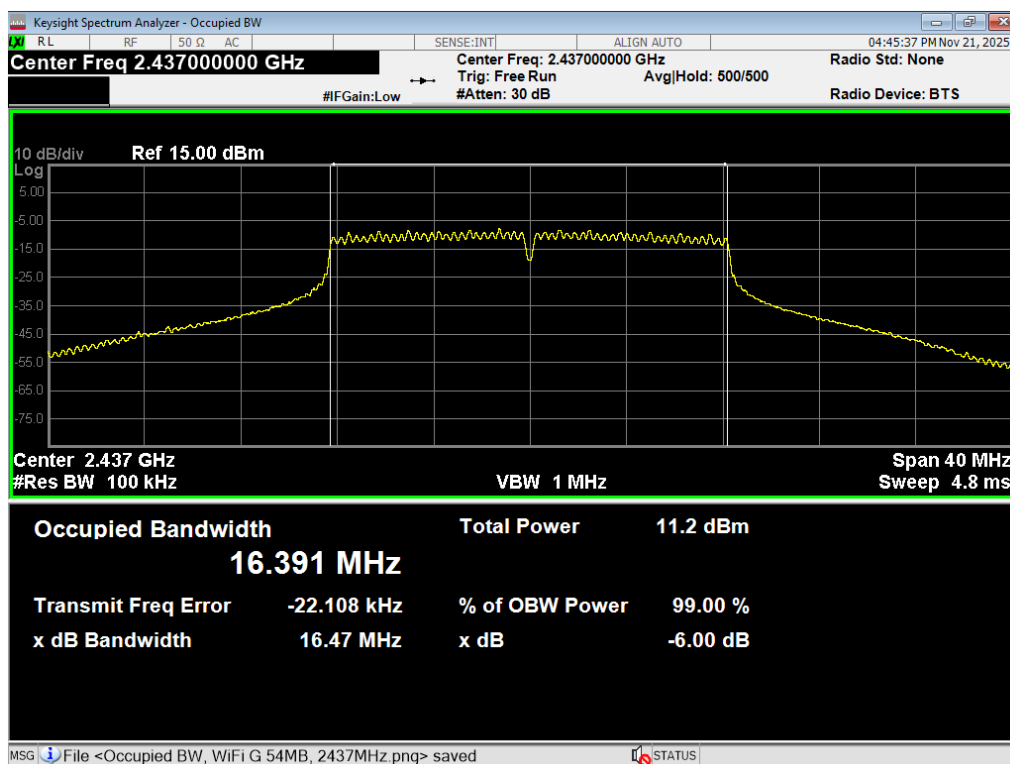
51 PSD, WiFi B 11MB, 2437MHz



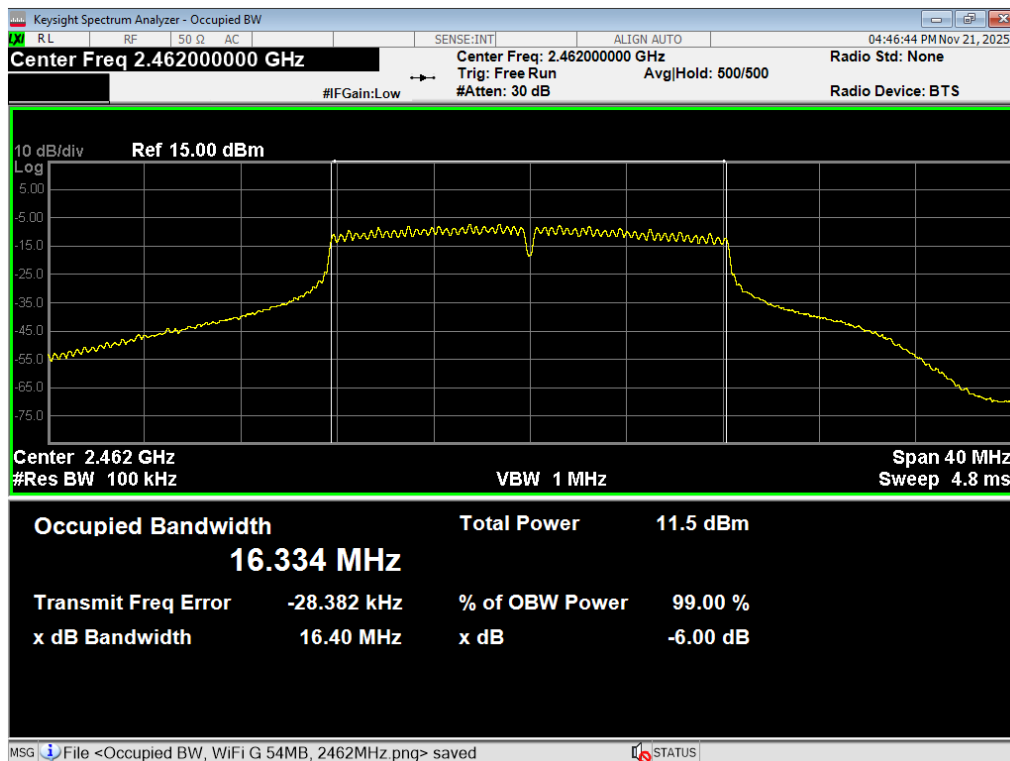
52 PSD, WiFi B 11MB, 2462MHz



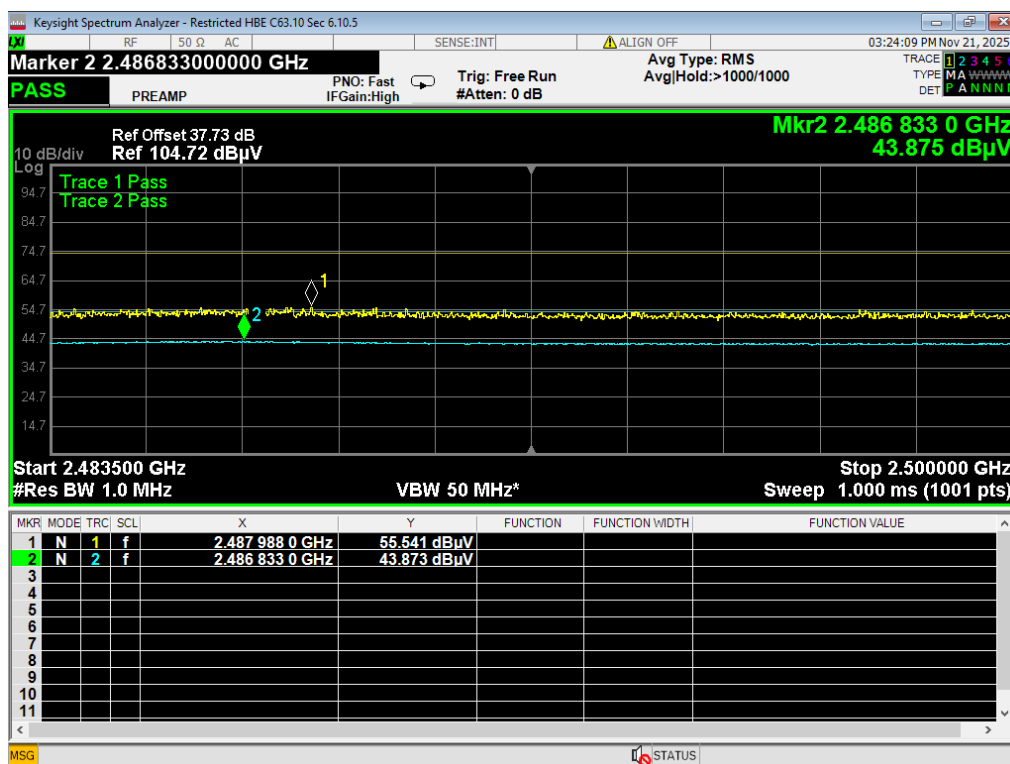
53 6dB BW, WiFi G 54MB, 2412MHz



54 6dB BW, WiFi G 54MB, 2437MHz



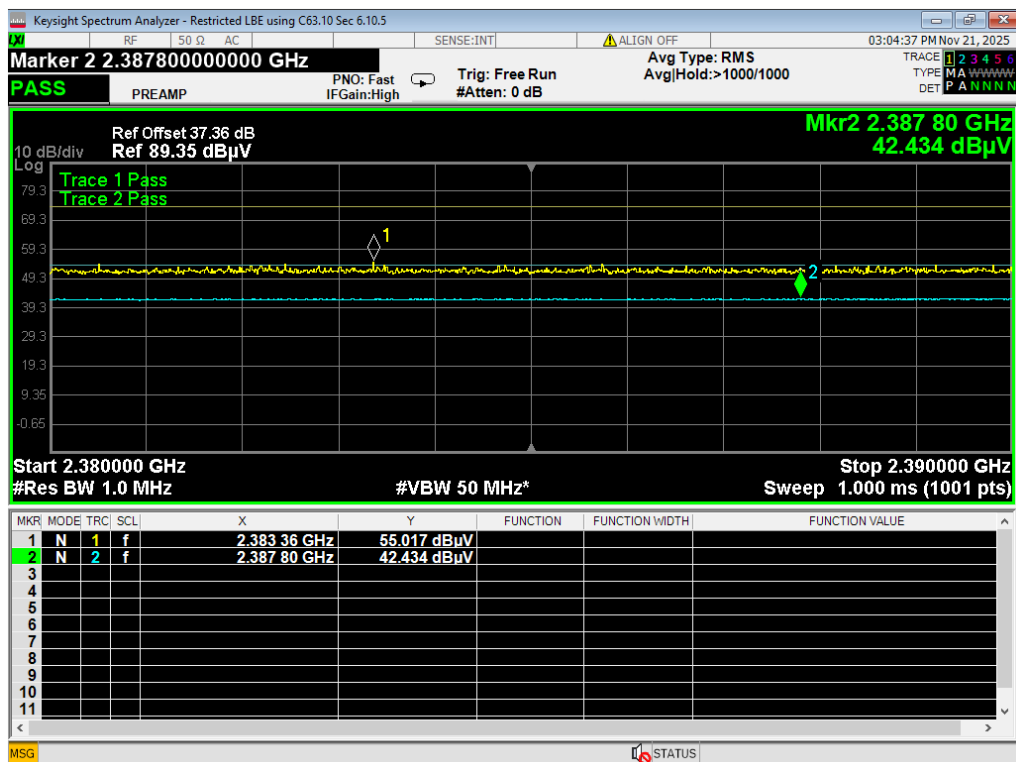
55 6dB BW, WiFi G 54MB, 2462MHz



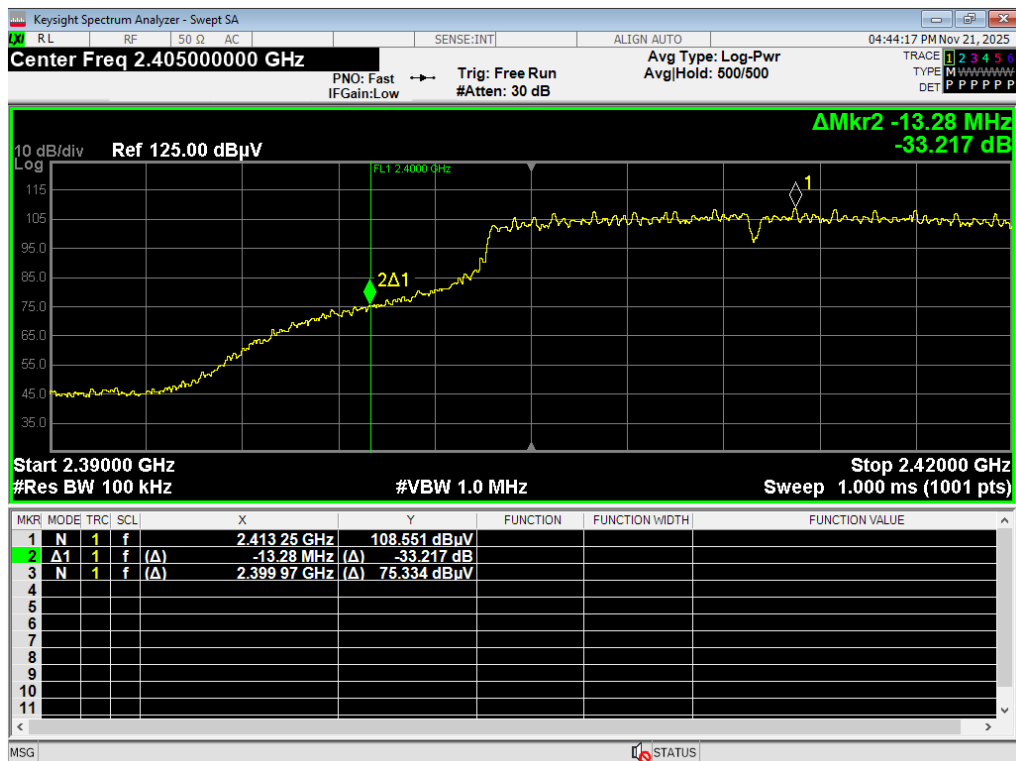
56 HBE Restricted, WIFI G 54MB, 2462MHz



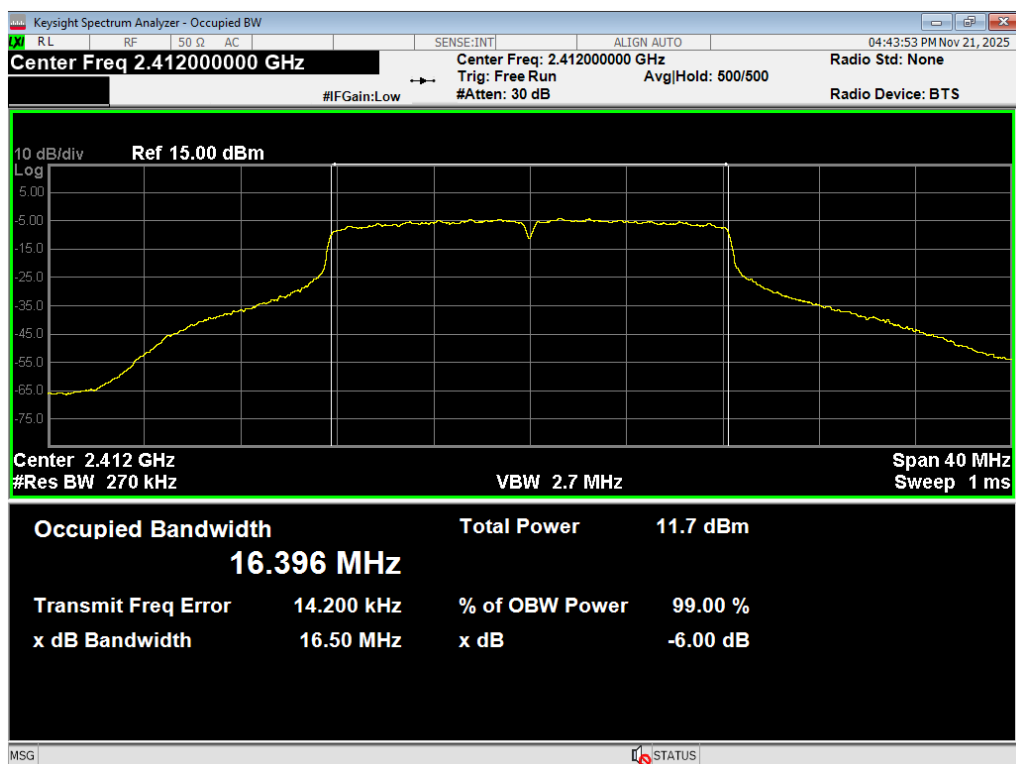
57 HBE Unrestricted, WiFi G 54MB, 2462MHz



58 LBE Restricted, WIFI G 54MB, 2412MHz

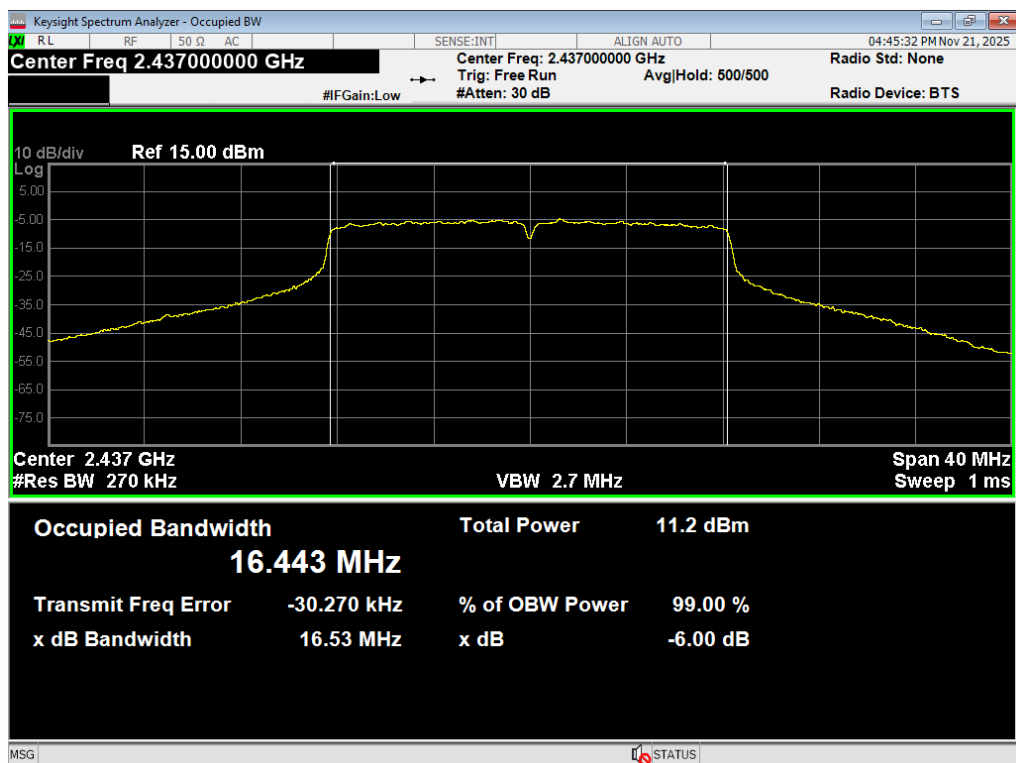


59 LBE Unrestricted, WiFi G 54MB, 2412MHz

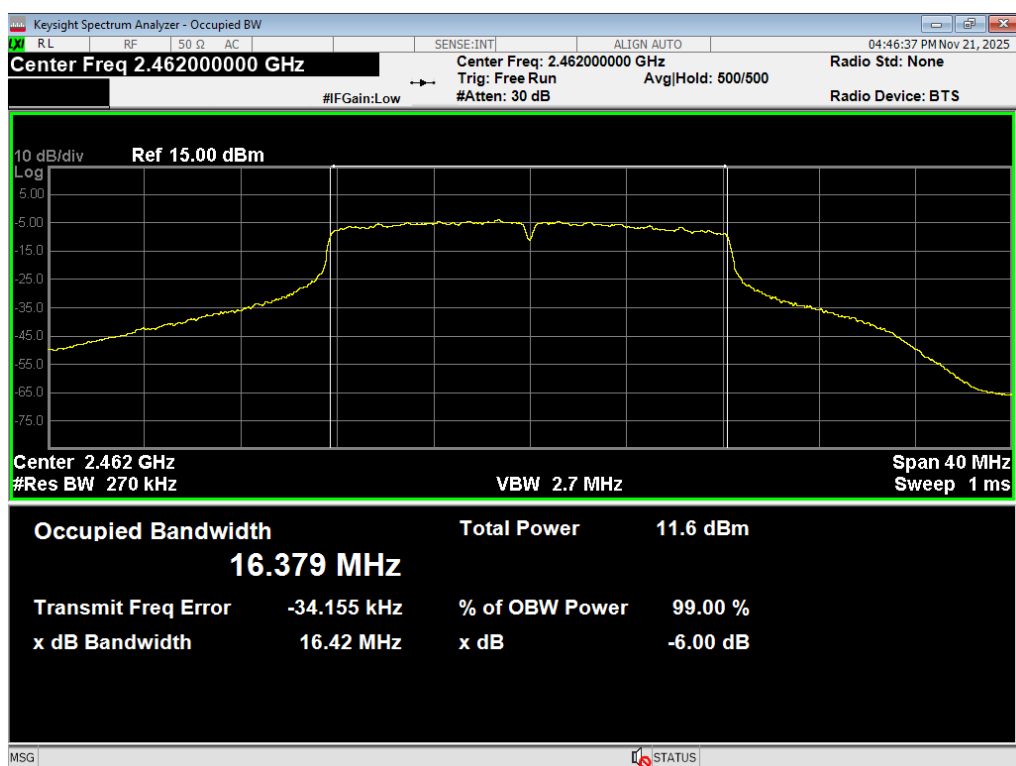


60 Occupied BW, WiFi G 54MB, 2412MHz

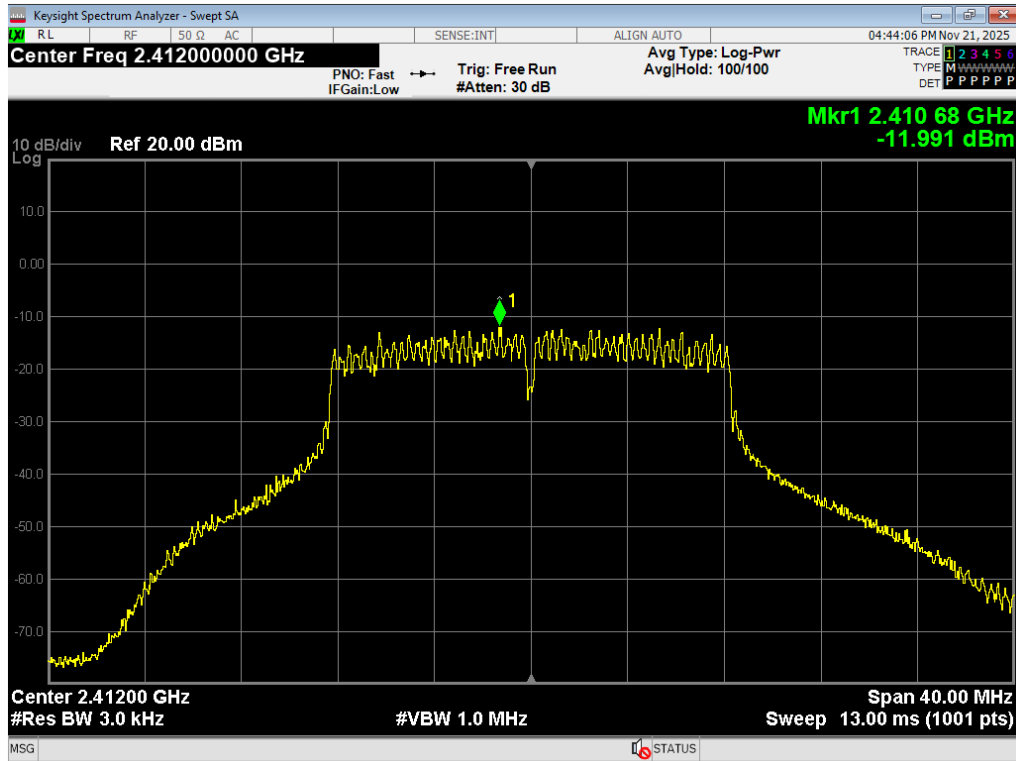
|                |                            |     |   |
|----------------|----------------------------|-----|---|
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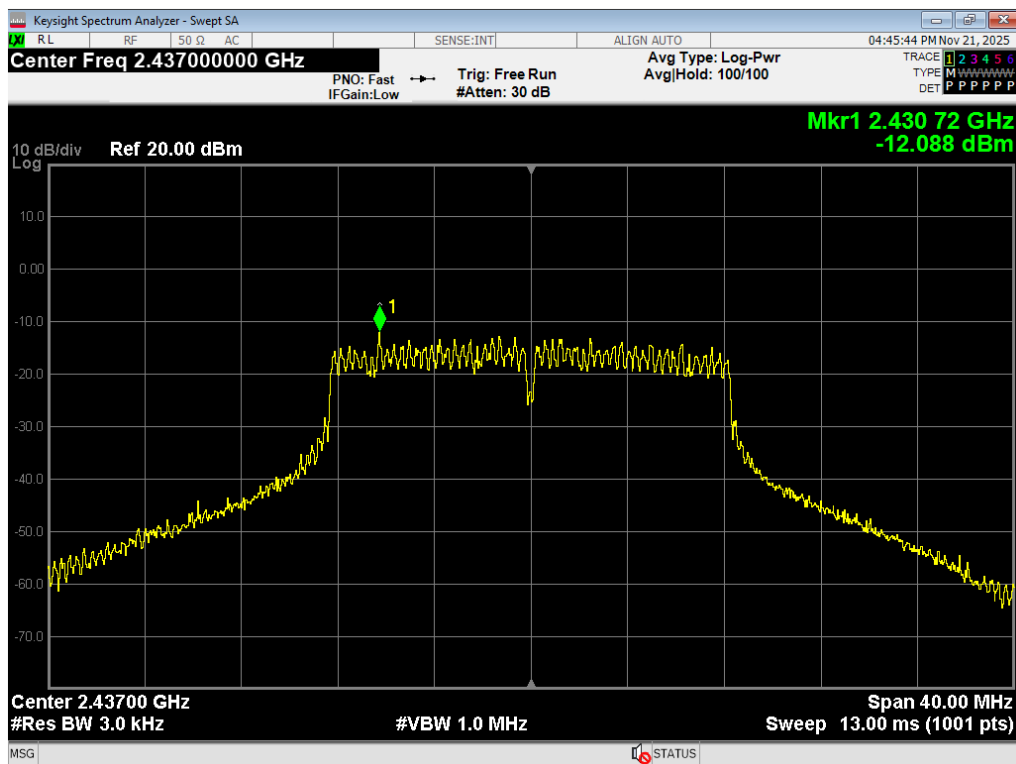
61 Occupied BW, WiFi G 54MB, 2437MHz



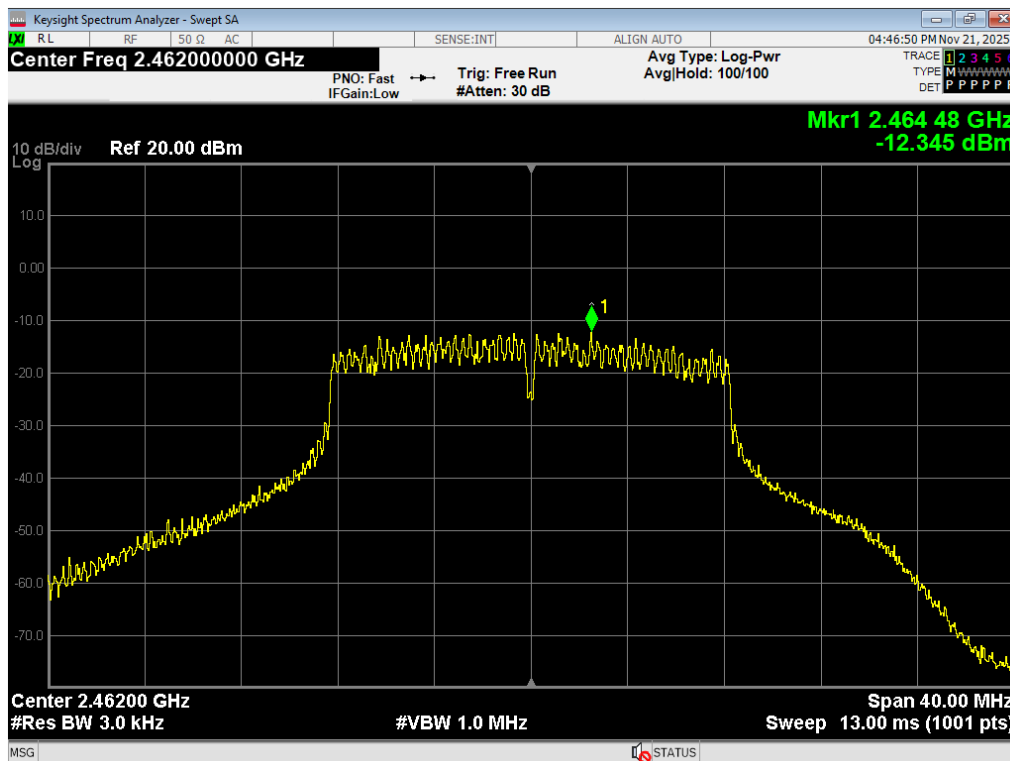
62 Occupied BW, WiFi G 54MB, 2462MHz



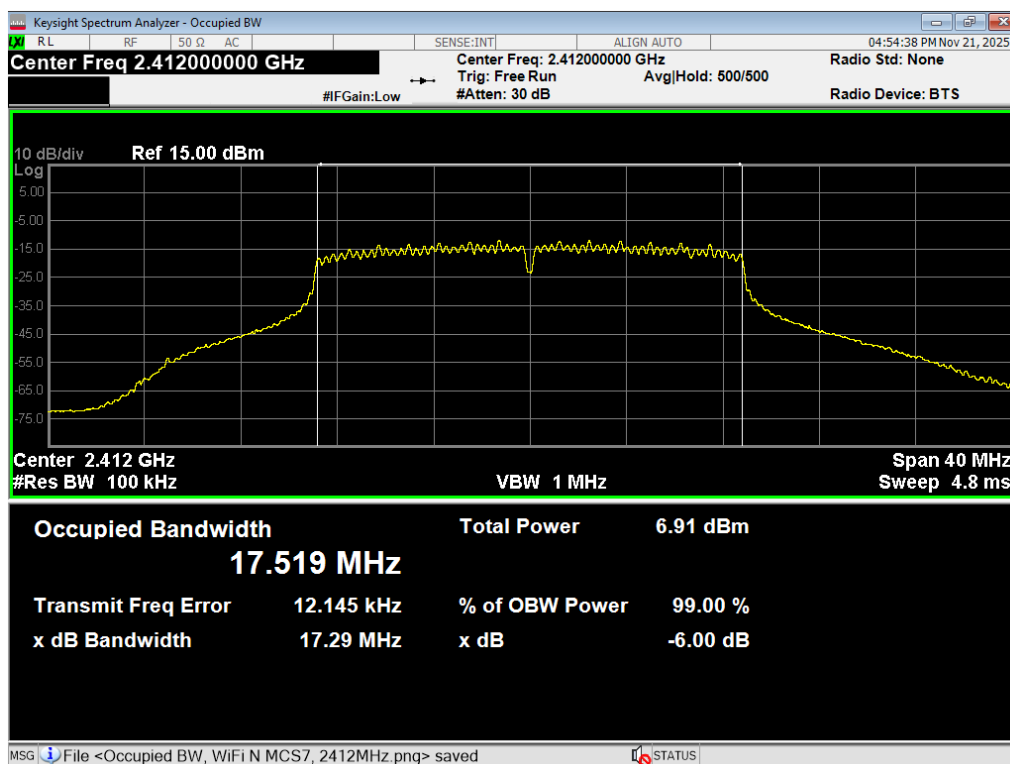
63 PSD, WiFi G 54MB, 2412MHz



64 PSD, WiFi G 54MB, 2437MHz

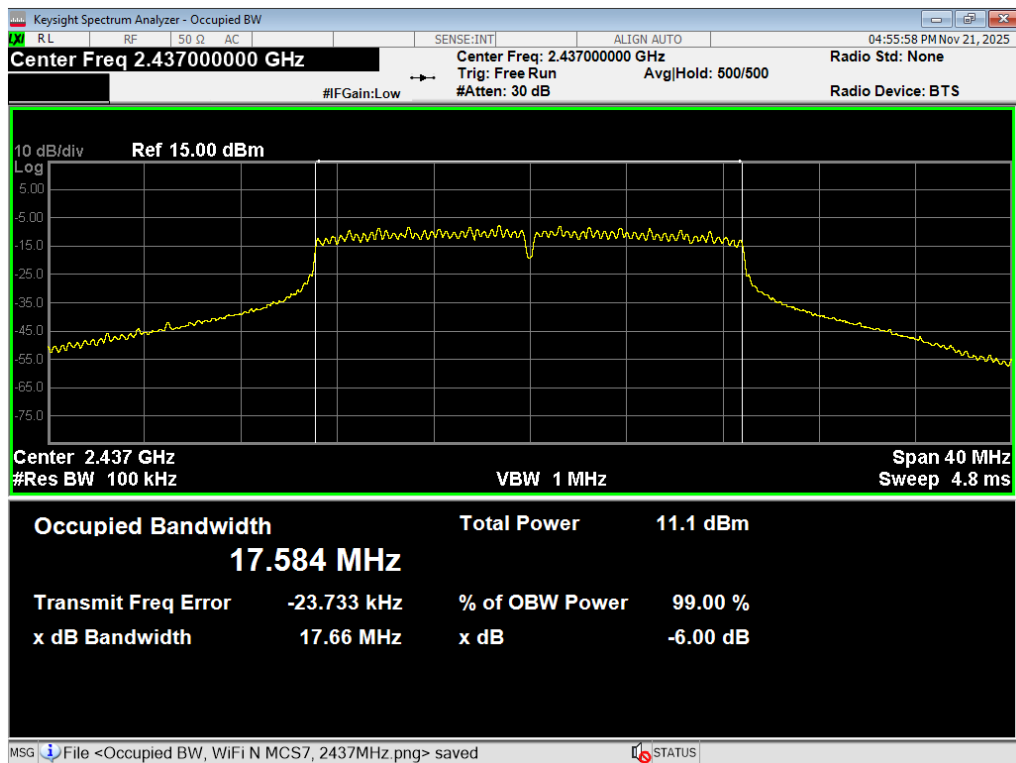


65 PSD, WiFi G 54MB, 2462MHz

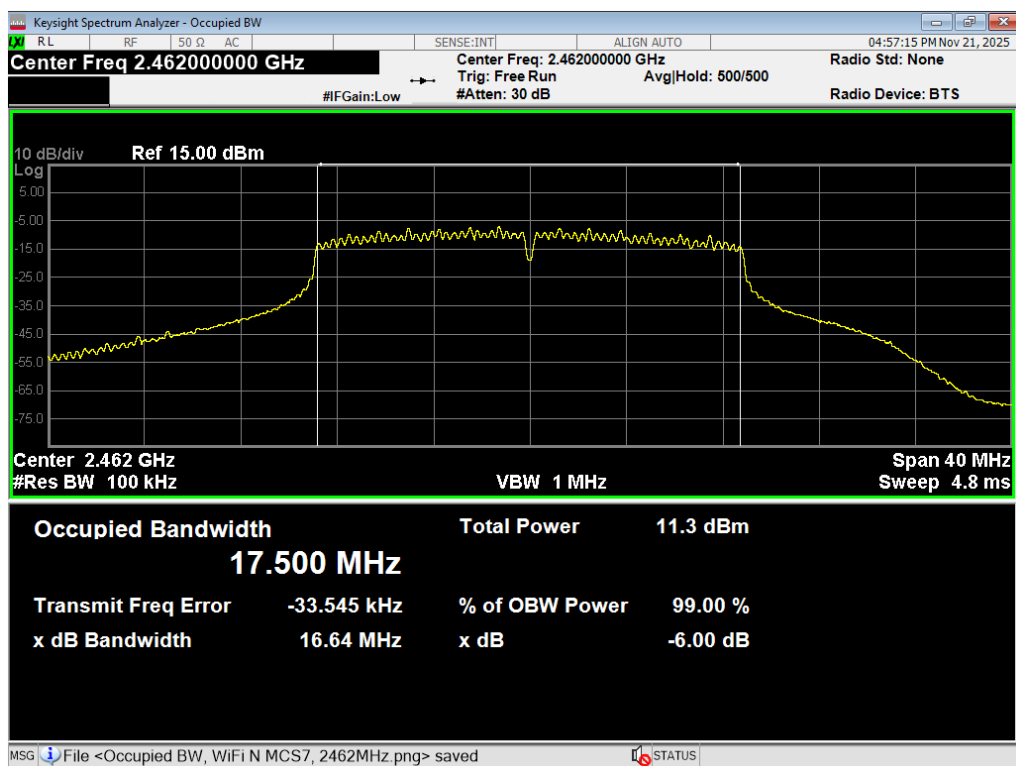


66 6dB BW, WiFi N MCS7, 2412MHz

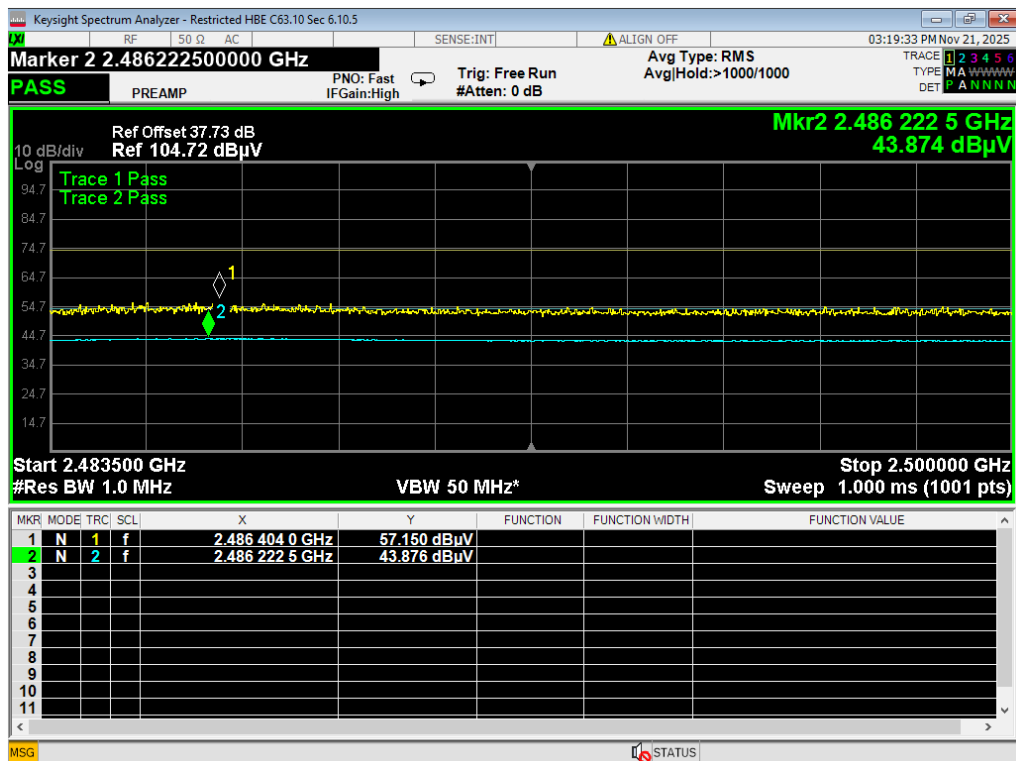
|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
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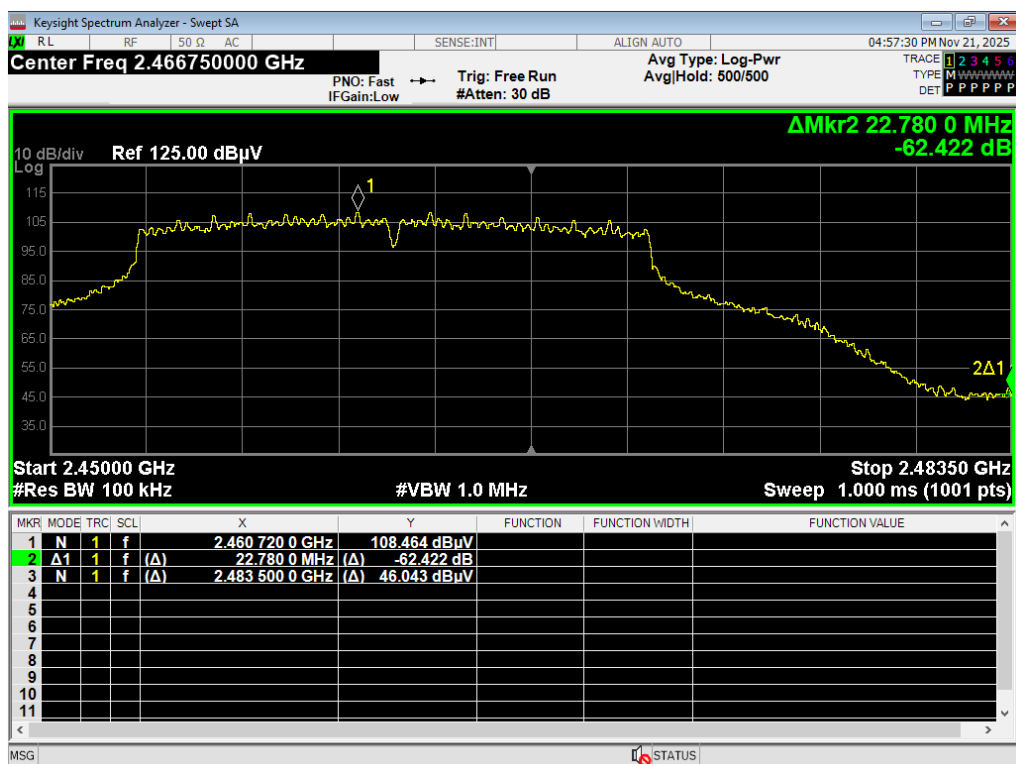
67 6dB BW, WiFi N MCS7, 2437MHz



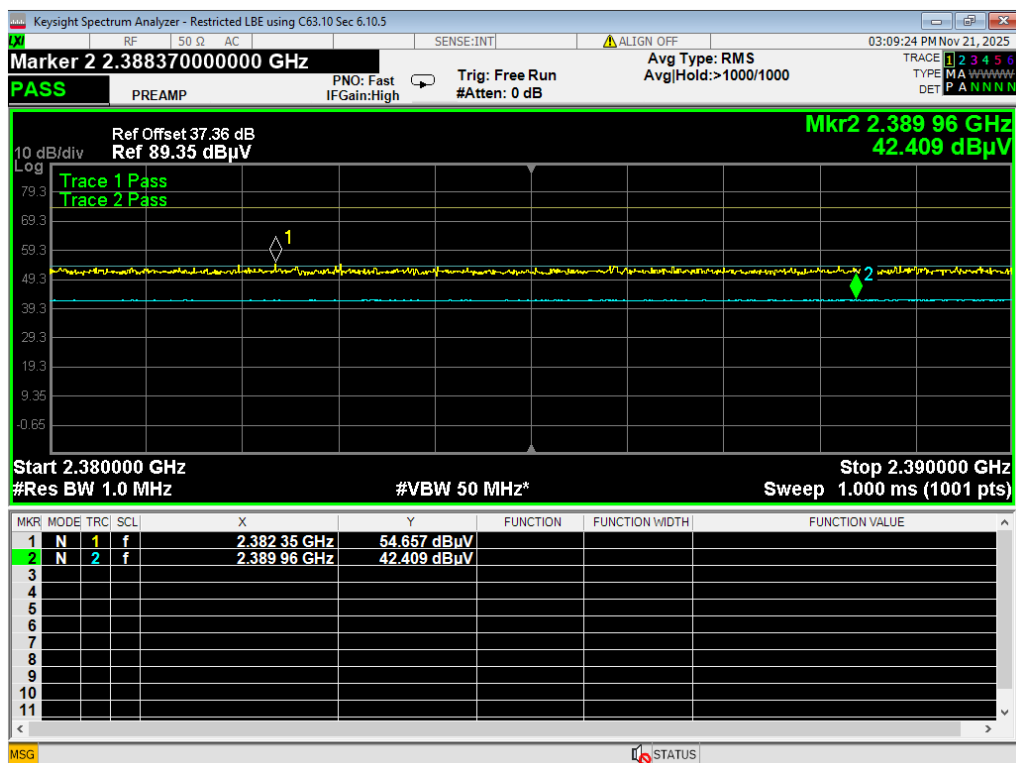
68 6dB BW, WiFi N MCS7, 2462MHz



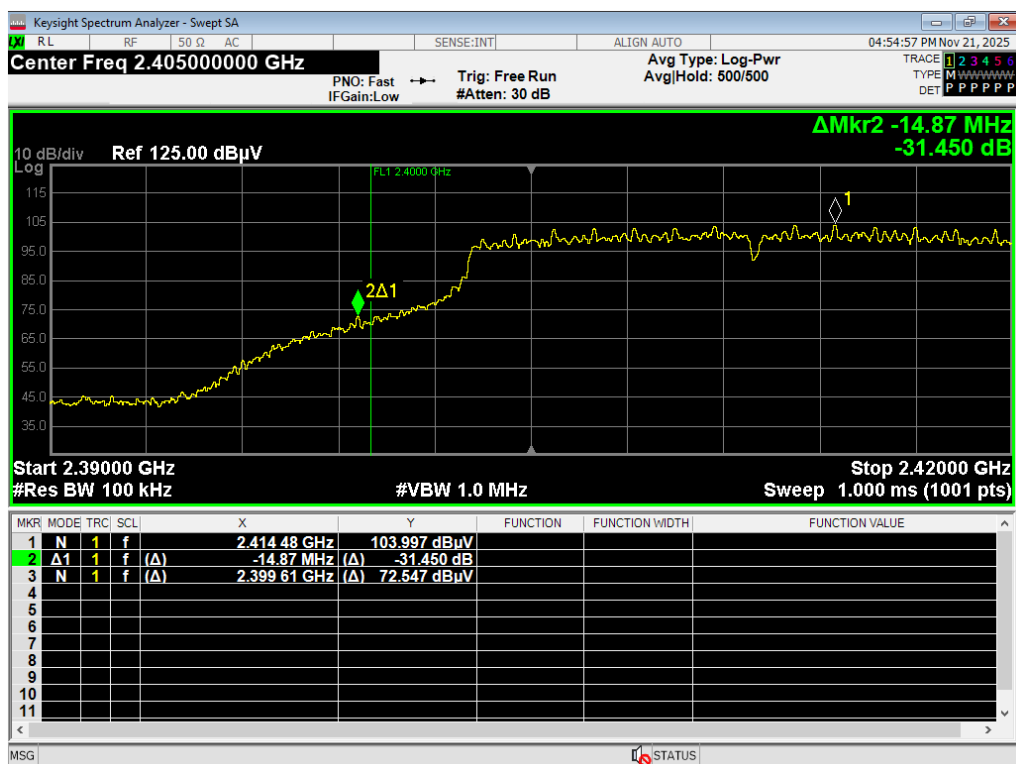
69 HBE Restricted, WIFI N MCS7, 2462MHz



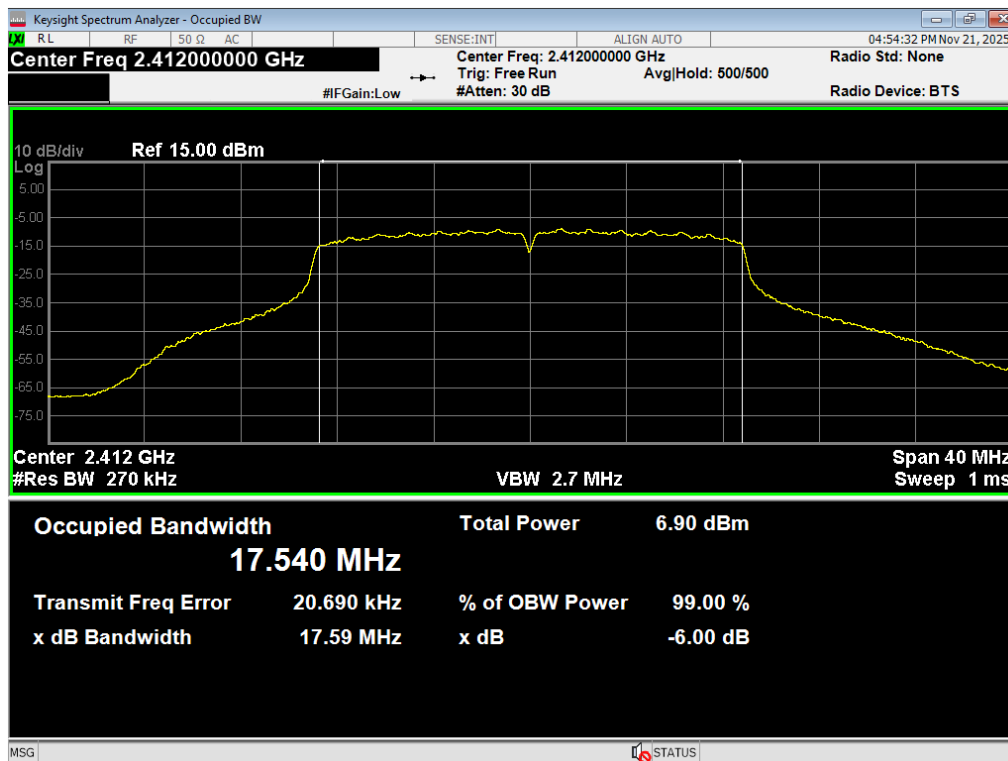
70 HBE Unrestricted, WiFi N MCS7, 2462MHz



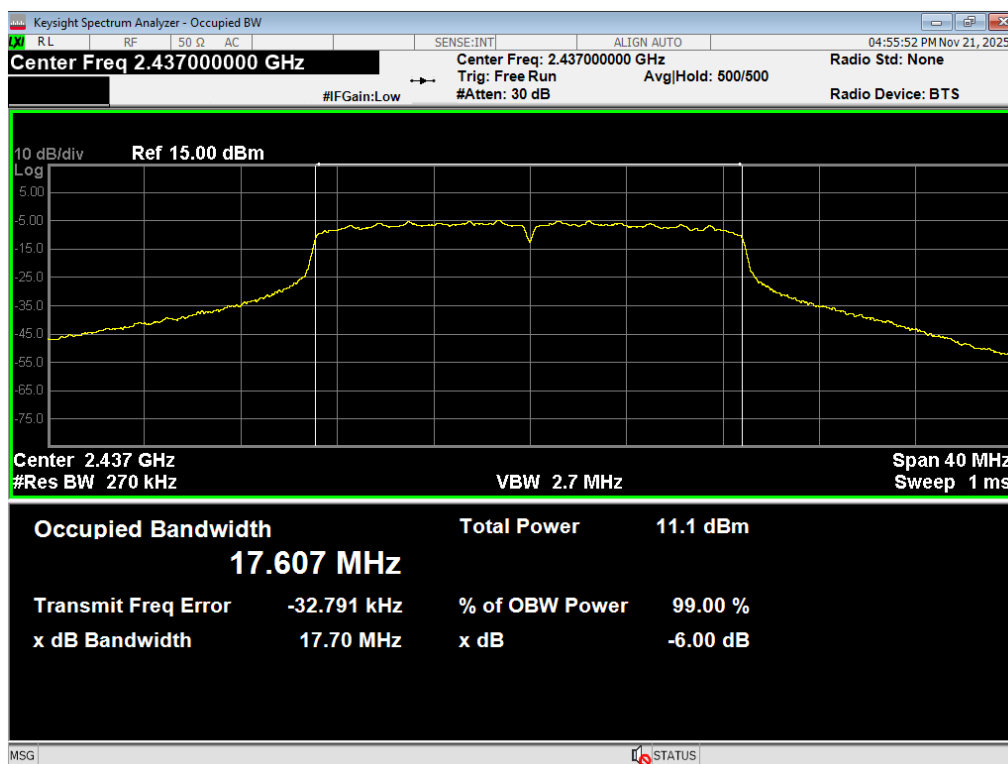
71 LBE Restricted, WIFI N MCS7, 2412MHz



72 LBE Unrestricted, WiFi N MCS7, 2412MHz

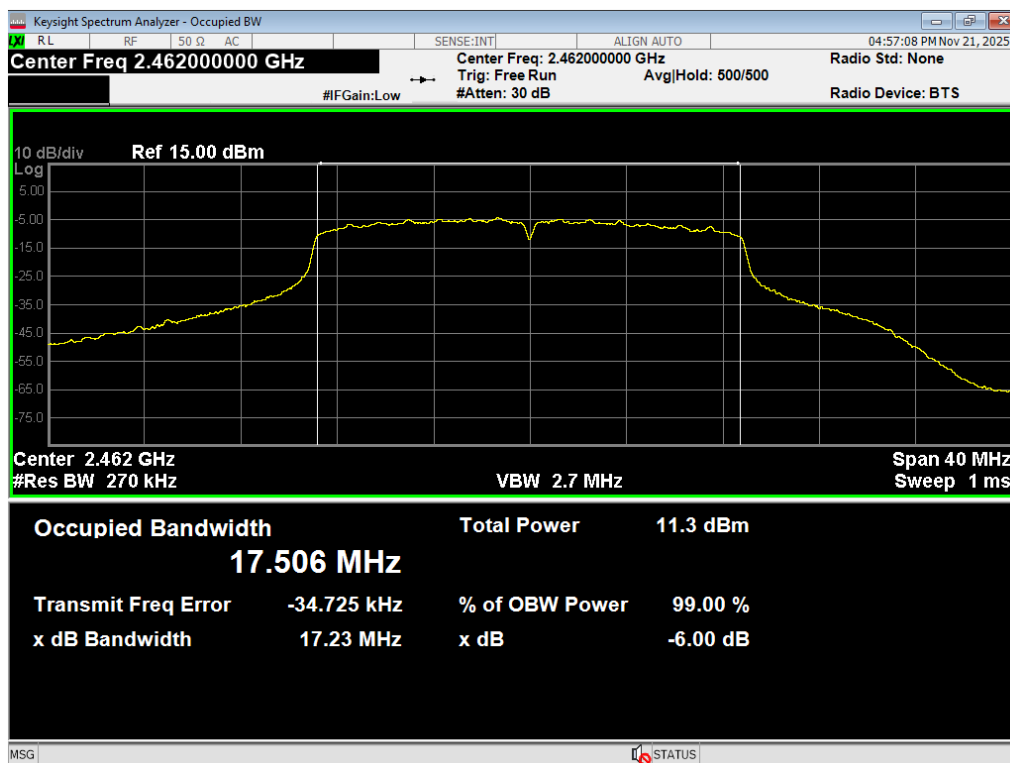


73 Occupied BW, WiFi N MCS7, 2412MHz

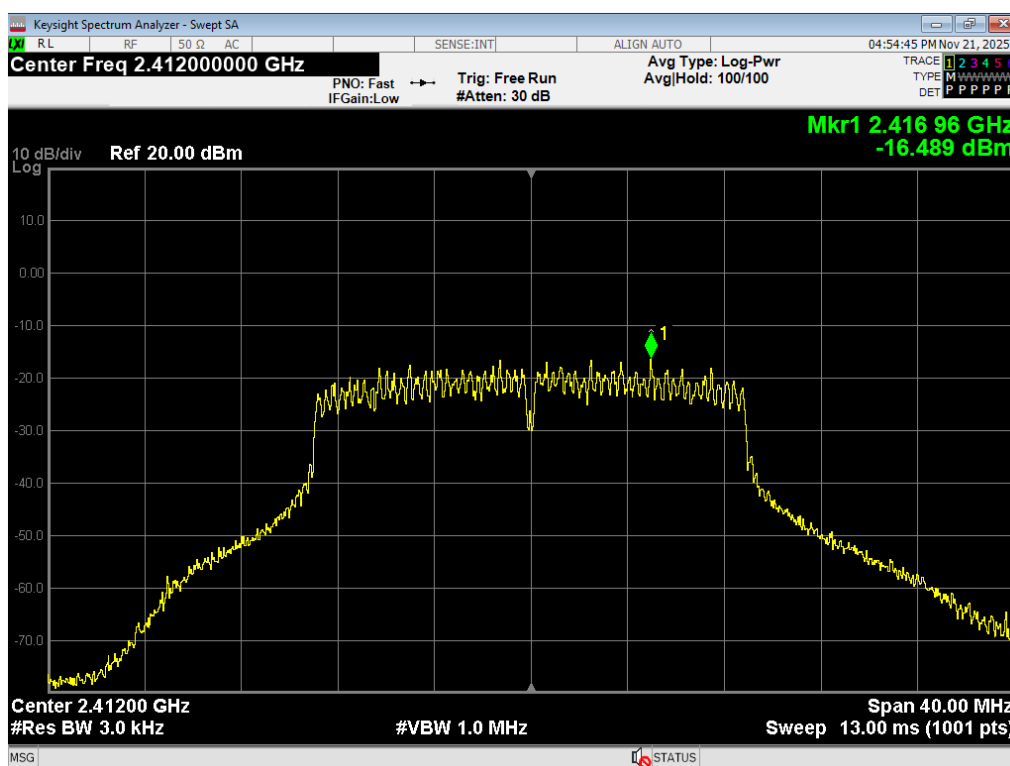


74 Occupied BW, WiFi N MCS7, 2437MHz

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|----------------|----------------------------|-----|---|
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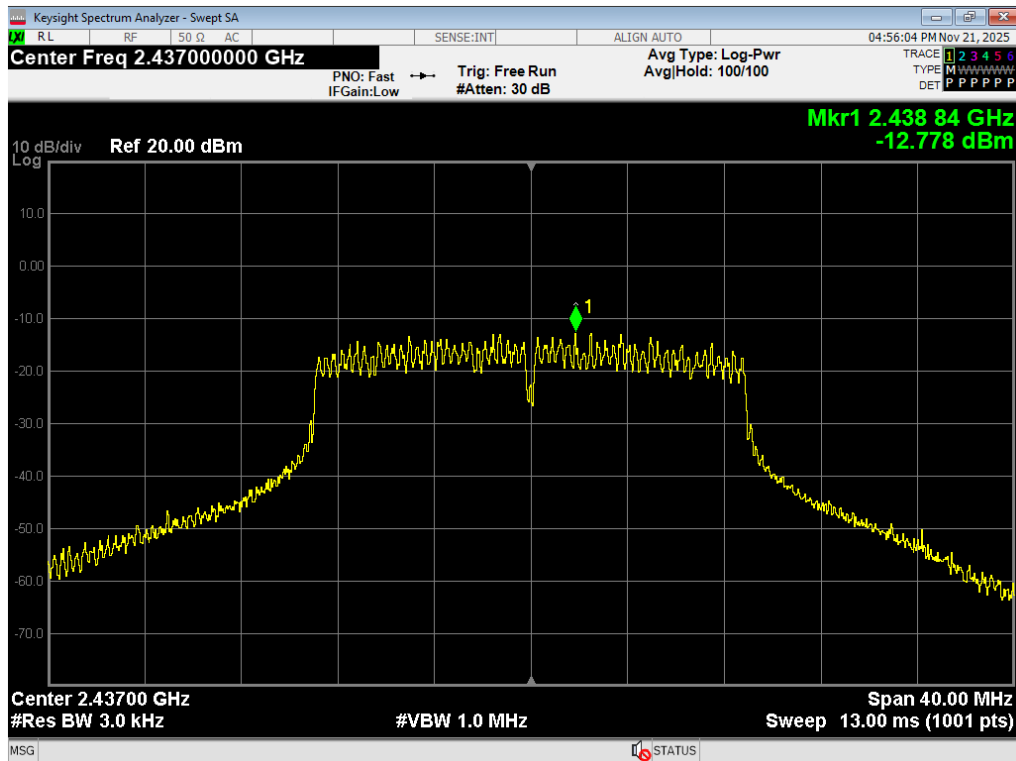


75 Occupied BW, WiFi N MCS7, 2462MHz

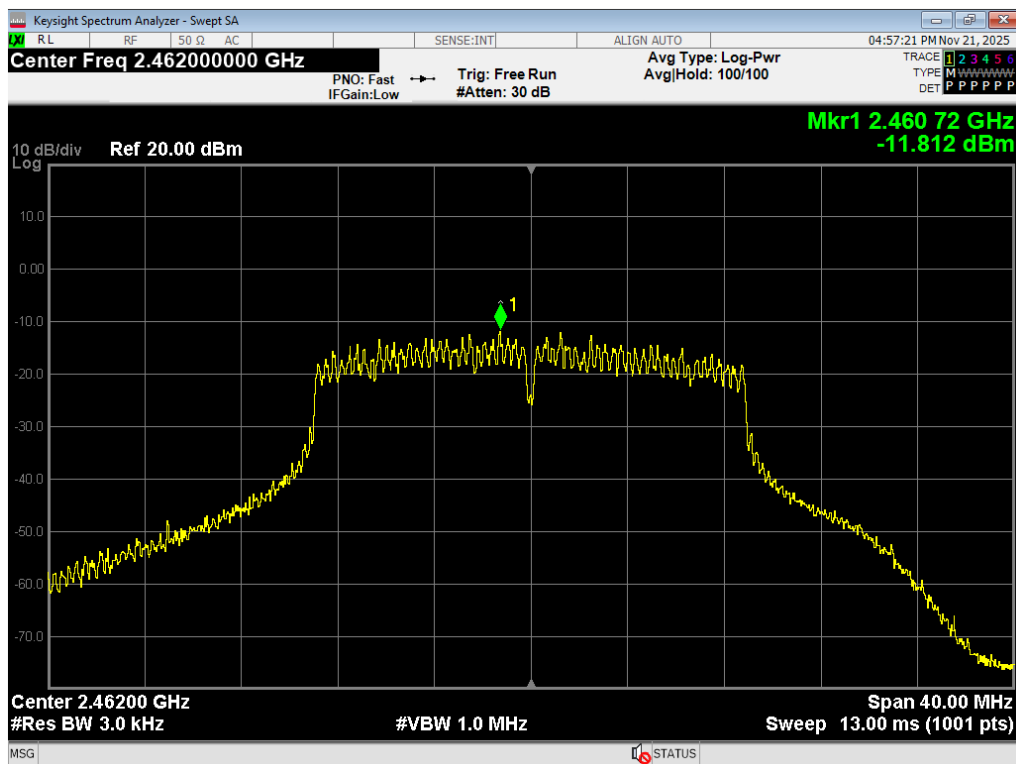


76 PSD, WiFi N MCS7, 2412MHz

|                |                            |     |   |
|----------------|----------------------------|-----|---|
| Report Number: | R20251104-00-E17           | Rev | C |
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77 PSD, WiFi N MCS7, 2437MHz



78 PSD, WiFi N MCS7, 2462MHz



|                |                            |     |   |
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REPORT END