TEST REPORT

Report No.: TWN2506340-03E

Applicant: YAU WAI TRADING

Product: EVPAD Player

Model No.: EVPAD-12P, EVPAD-12S

Trademark: EVPAD

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By:

Terry Tang

Manager

Dated: June 19, 2024

**Results appearing herein relate only to the sample tested**
**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**


**SHENZHEN TIMEWAY TESTING LABORATORIES**

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

## Special Statement:

**FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

**Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

**A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

**CAB identifier: CN0033**

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Test Report Conclusion

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1.0 **General Details**

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688

Fax: (755) 83442996

Site Listed with Federal Communications commission (FCC)

Registration Number:744189

For 3m Anechoic Chamber

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: YAU WAI TRADING

Address: WORKSHOP NO. 14, 4TH FLOOR LAURELS INDUSTRIAL CENTRE NO. 32 TAI YAU STREET KOWLOON, HONG KONG, China

1.3 Description of EUT

| | |
|---|---|
| Product: | EVPAD Player |
| Manufacturer: | YAU WAI TRADING |
| Address: | WORKSHOP NO. 14, 4TH FLOOR LAURELS INDUSTRIAL CENTRE NO. 32 TAI YAU STREET KOWLOON, HONG KONG, China |
| Trademark: | EVPAD |
| Model Number: | EVPAD-12P |
| Additional Model Number: | EVPAD-12S |
| Hardware Version: | V12 |
| Software Version: | V12 |
| Serial No.: | 00226e3a012a |
| Rating: | Input: DC5V, 2A |
| Power Supply: | Model: MDL010-0502000ZU<br>Input: 100-240V~, 50/60Hz, 0.45A; Output: DC5V, 2A,10W |
| Type of Modulation | IEEE 802.11b: DSSS (CCK, QPSK, DBPSK)<br>IEEE 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax (HEW20, HEW40): OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM) |
| Frequency range | IEEE 802.11b/g/n (HT20)/ax (HEW20): 2412-2462MHz;<br>IEEE 802.11n (HT40)/ax (HEW40): 2422-2452MHz |

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| | |
|---|---|
| Channel Spacing | 5MHz for IEEE 802.11b/g/n (HT20, HT40)/ax (HEW20, HEW40) |
| Air Data Rate | IEEE 802.11b: 11, 5.5, 2, 1 Mbps |
| | IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps |
| | IEEE 802.11n HT20/HT40: mcs0-mcs7 |
| | IEEE 802.11ax HEW20/HEW40: mcs0-mcs11 |
| Frequency Selection | By software |
| Channel Number | IEEE 802.11b/g/n (HT20)/ax (HEW20): 11 Channels; |
| | IEEE 802.11n (HT40)/ ax (HEW40): 7 Channels; |
| Antenna: | FPC antenna. The gain of the antennas is 0.31dBi maximum. (Get from the antenna specification provided the applicant) |

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2025-06-05 to 2025-06-19

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by _____

Print Name: Andy Xing

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| 2.0 Test Equipment | | | | | |
|---|---|---|---|---|---|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100294 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100253 | 2024-07-12 | 2025-07-11 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2024-07-12 | 2025-07-11 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2022-07-18 | 2025-07-17 |
| Spectrum | R&S | FSIQ26 | 100292 | 2024-07-12 | 2025-07-11 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2022-07-18 | 2025-07-17 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2022-07-18 | 2025-07-17 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2024-07-12 | 2025-07-11 |
| Power sensor | Anritsu | MA2491A | 32263 | 2024-07-12 | 2025-07-11 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2022-07-18 | 2025-07-17 |
| 9*6*6 Anechoic | -- | -- | N/A | 2022-07-26 | 2025-07-25 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2024-07-12 | 2025-07-11 |
| EMI Test Receiver | RS | ESCS 30 | 834115/006 | 2024-07-12 | 2025-07-11 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2024-07-12 | 2025-07-11 |
| Spectrum | RS | FSP | 1164.4391.38 | 2024-07-12 | 2025-07-11 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8M/FA | -- | 2024-07-12 | 2025-07-11 |
| RF Cable | Zhengdi | 7m | -- | 2024-07-12 | 2025-07-11 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2024-07-12 | 2025-07-11 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2024-07-12 | 2025-07-11 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2024-07-12 | 2025-07-11 |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100294 | 2024-07-12 | 2025-07-11 |

2.2 Automation Test Software

For Conducted Emission Test

| Name | Version |
|---|---|
| EZ-EMC | Ver.EMC-CON 3A1.1 |

For Radiated Emissions

| Name | Version |
|---|---|
| EMI Test Software BL410-EV18.91 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06 |

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## 3. DESCRIPTION OF TEST MODES

**IEEE 802.11b, 802.11g, 802.11n (HT20) , 802.11ax (HEW20) mode**

The EUT had been tested under operating condition. There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---|---|
| Low | 2412 |
| Middle | 2437 |
| High | 2462 |

IEEE 802.11b mode: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20)/802.11ax (HEW20) mode: mcs0 (worst case) were chosen for full testing;

**IEEE 802.11n (HT40) /802.11ax (HEW40) mode**

The EUT had been tested under operating condition. There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---|---|
| Low | 2422 |
| Middle | 2437 |
| High | 2452 |

IEEE 802.11n (HT40)/ 802.11ax (HEW40) mode: mcs0 data rate (worst case) were chosen for full testing

Note: 1. During the test, the duty cycle was set up to >98%
2. For 802.11ax mode only support full RU mode.

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## 3.0 Technical Details

### 3.1 Summary of test results

**The EUT has been tested according to the following specifications:**

| Standard | Test Type | Result | Notes |
|---|---|---|---|
| FCC Part 15, Paragraph15.203 | Antenna Requirement | Pass | Complies |
| FCC Part 15, Paragraph15.207 | Conducted Emission Test | Pass | Complies |
| FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit | Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz | Pass | Complies |
| FCC Part 15, Paragraph 15.247(b) | Maximum peak output power Limit: max. 30dBm | Pass | Complies |
| FCC Part 15, Paragraph 15.109,15.205 & 15.209 | Transmitter Radiated Emission Limit: Table 15.209 | Pass | Complies |
| FCC Part 15, Paragraph 15.247(e) | Power Spectral Density Limit: max. 8dBm | Pass | Complies |
| FCC Part 15, Paragraph 15.247(d) | Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209 | Pass | Complies |

### 3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247**

## 4.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.**

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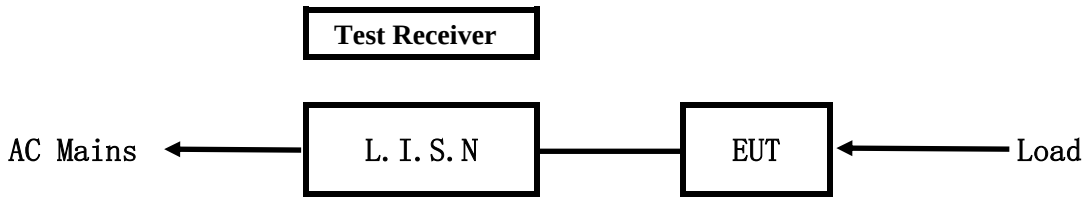
**5.0 Power Line Conducted Emission Test**

5.1 Schematics of the test



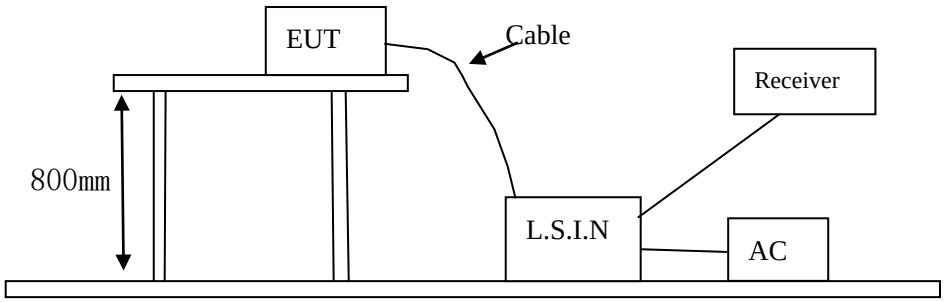

EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013.The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V, 60Hz

Block diagram of Test setup




5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

| Device | Manufacturer | Model | FCC ID |
|---|---|---|---|
| EVPAD Player | YAU WAI TRADING | EVPAD-12P, EVPAD-12S | 2A4G812P12S |

B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|---|---|---|---|
| N/A | | | |

C. Peripherals

| Device | Manufacturer | Model | FCC ID/DOC | Cable |
|---|---|---|---|---|
| -- | -- | -- | -- | -- |

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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency (MHz) | Limits (dB μ V) | |
|---|---|---|
| | Quasi-peak Level | Average Level |
| 0.15 ～ 0.50 | 66.0～56.0* | 56.0～46.0* |
| 0.50 ～ 5.00 | 56. | 46.0 |
| 5.00 ～ 30.00 | 60.0 | 50.0 |

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Note: Only the worst case was recorded in the test report.**

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

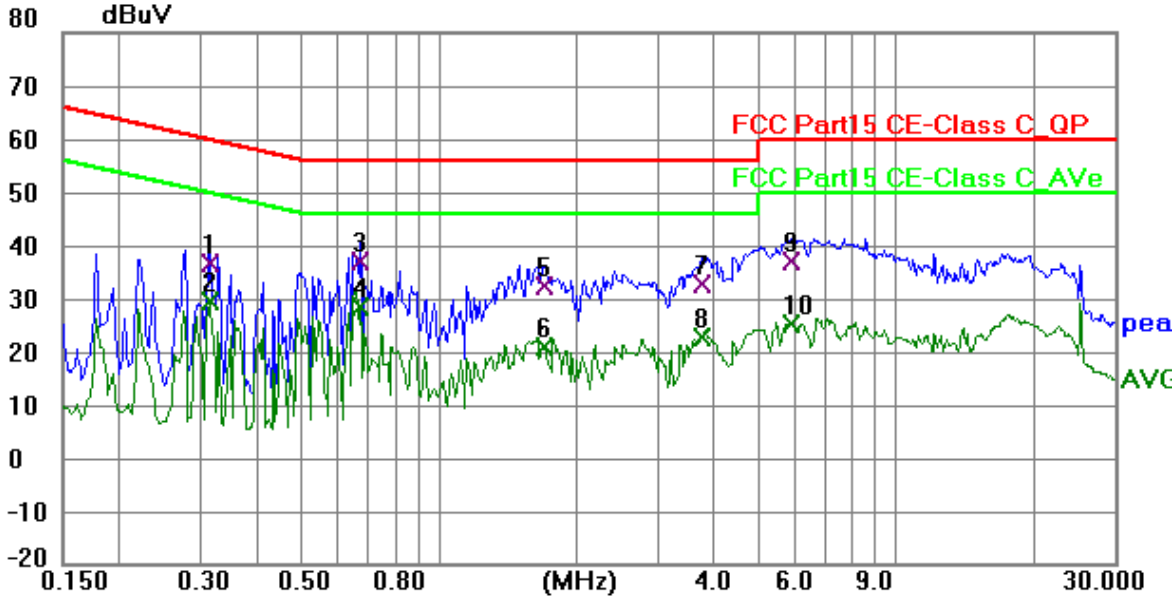
**EUT Operating Environment**

Temperature: 26℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep WIFI Transmitting**

**Results: Pass**

Please refer to following diagram for individual




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.3138 | 26.29 | 10.35 | 36.64 | 59.87 | -23.23 | QP | P |
| 2 | 0.3138 | 19.09 | 10.35 | 29.44 | 49.87 | -20.43 | AVG | P |
| 3 | 0.6726 | 26.52 | 10.45 | 36.97 | 56.00 | -19.03 | QP | P |
| 4 | 0.6726 | 17.81 | 10.45 | 28.26 | 46.00 | -17.74 | AVG | P |
| 5 | 1.6983 | 21.42 | 11.07 | 32.49 | 56.00 | -23.51 | QP | P |
| 6 | 1.6983 | 9.74 | 11.07 | 20.81 | 46.00 | -25.19 | AVG | P |
| 7 | 3.7527 | 20.87 | 11.94 | 32.81 | 56.00 | -23.19 | QP | P |
| 8 | 3.7527 | 10.70 | 11.94 | 22.64 | 46.00 | -23.36 | AVG | P |
| 9 | 5.8743 | 24.36 | 12.54 | 36.90 | 60.00 | -23.10 | QP | P |
| 10 | 5.8743 | 12.79 | 12.54 | 25.33 | 50.00 | -24.67 | AVG | P |

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

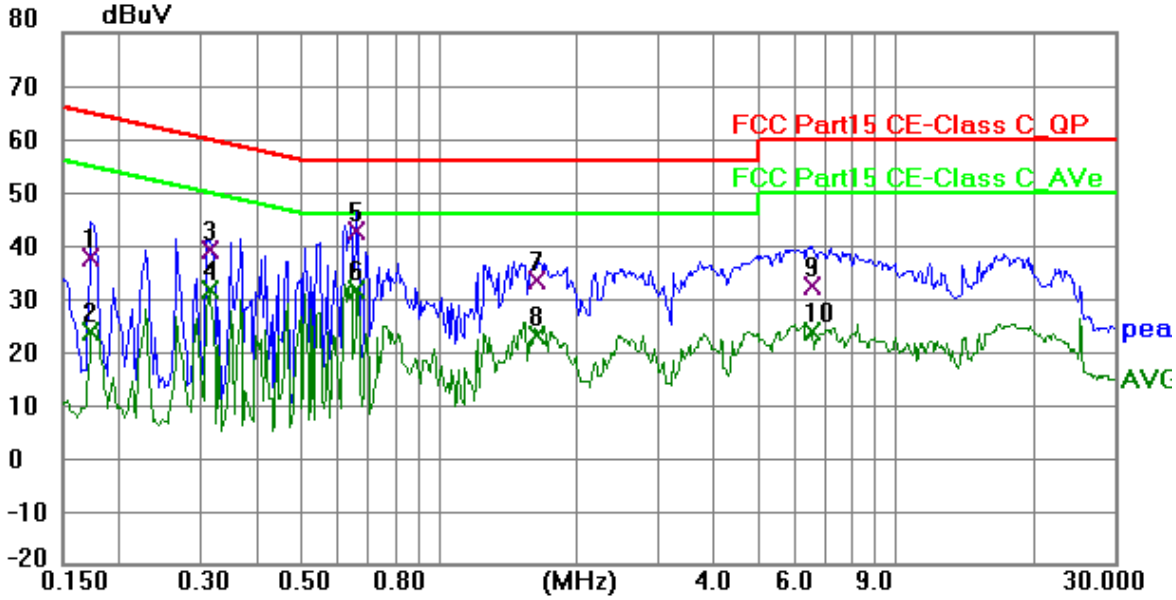
**EUT Operating Environment**

Temperature: 26℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep WIFI Transmitting**

**Results: Pass**

Please refer to following diagram for individual




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.1734 | 27.44 | 10.33 | 37.77 | 64.80 | -27.03 | QP | P |
| 2 | 0.1734 | 13.47 | 10.33 | 23.80 | 54.80 | -31.00 | AVG | P |
| 3 | 0.3138 | 28.88 | 10.35 | 39.23 | 59.87 | -20.64 | QP | P |
| 4 | 0.3138 | 21.11 | 10.35 | 31.46 | 49.87 | -18.41 | AVG | P |
| 5 | 0.6609 | 32.23 | 10.45 | 42.68 | 56.00 | -13.32 | QP | P |
| 6 | 0.6609 | 21.13 | 10.45 | 31.58 | 46.00 | -14.42 | AVG | P |
| 7 | 1.6437 | 22.36 | 11.03 | 33.39 | 56.00 | -22.61 | QP | P |
| 8 | 1.6437 | 11.94 | 11.03 | 22.97 | 46.00 | -23.03 | AVG | P |
| 9 | 6.5295 | 19.59 | 12.71 | 32.30 | 60.00 | -27.70 | QP | P |
| 10 | 6.5295 | 11.13 | 12.71 | 23.84 | 50.00 | -26.16 | AVG | P |

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## 6 Radiated Emission Test

6.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.

(3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. F For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.

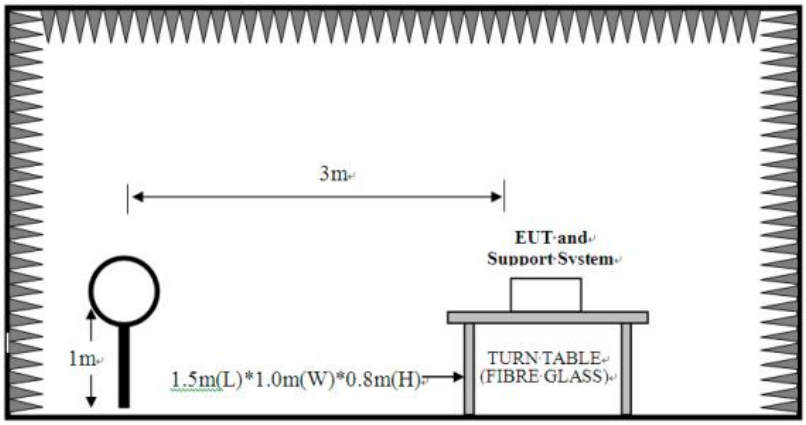
(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.

(6) The antenna polarization: Vertical polarization and Horizontal polarization.

**Block diagram of Test setup**

For radiated emissions from 9kHz to 30MHz

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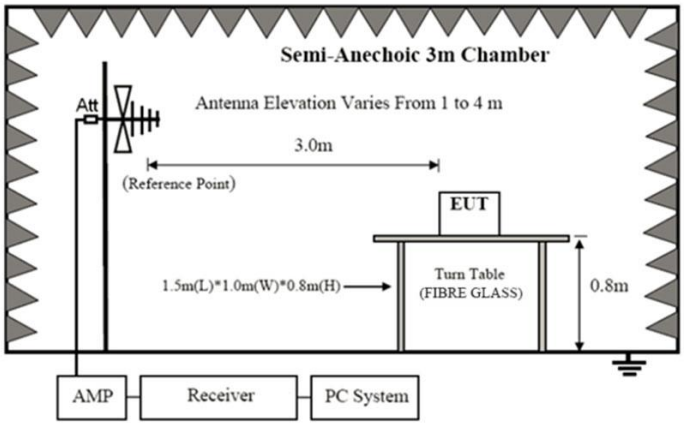
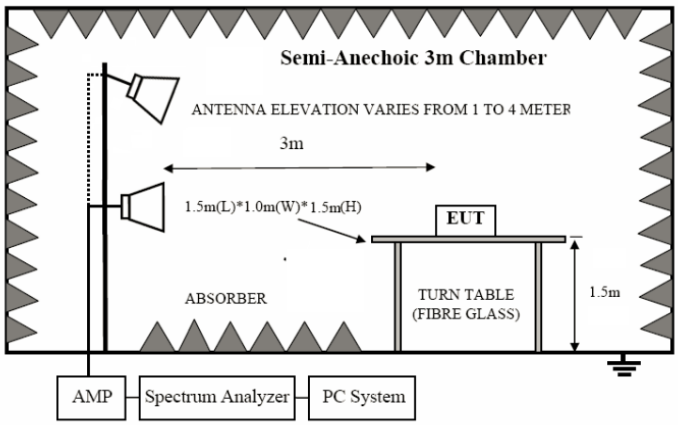
For radiated emissions from 30MHz to1GHz




For radiated emissions above 1GHz




6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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**Frequencies in restricted band are complied to limit on Paragraph 15.209**

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|---|---|---|
| 0.009-0.049 | 3 | 20log(2400/F(kHz)) +40log (300/3) |
| 0.490-1.705 | 3 | 20log(24000/F(kHz)) +40log (30/3) |
| 1.705-30 | 3 | 69.5 |
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

**4. Worse case were recorded in the test report. 802.11g was the worst case.**

**Note: Only the worst case was recorded in the test report.**

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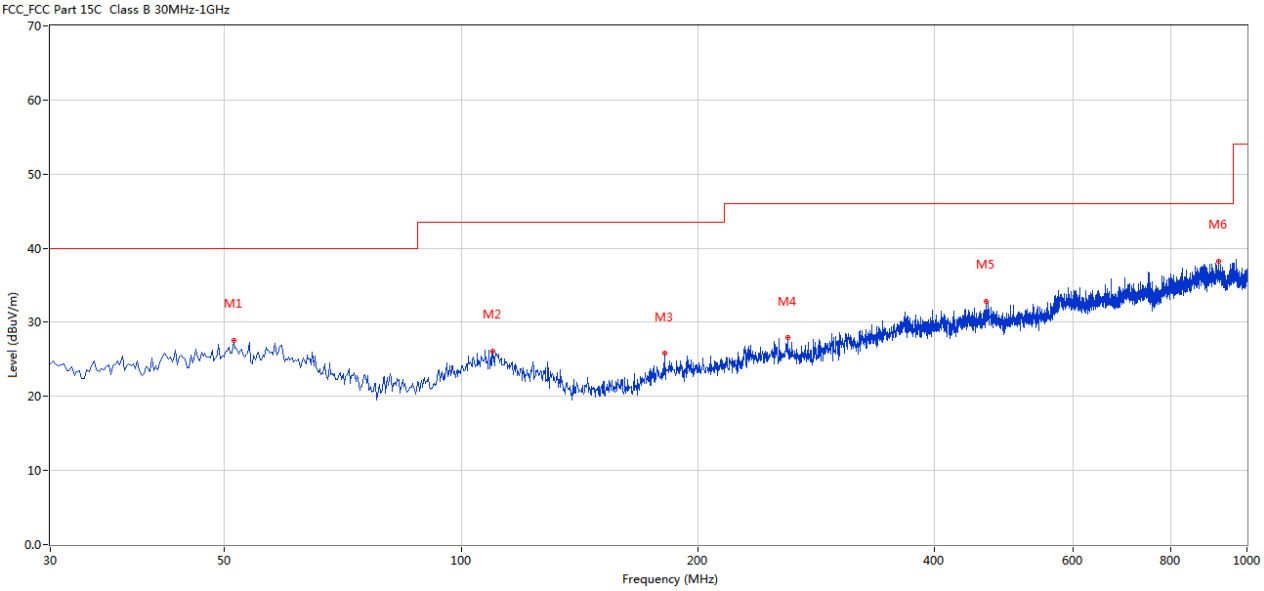
**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: **Keep Transmitting**

**Results:** **Pass**




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 51.335 | 27.54 | -4.95 | 40.0 | 12.46 | Peak | 135.00 | 100 | Horizontal | Pass |
| 2 | 109.763 | 26.08 | -5.96 | 43.5 | 17.42 | Peak | 130.00 | 100 | Horizontal | Pass |
| 3 | 181.525 | 25.77 | -7.66 | 43.5 | 17.73 | Peak | 236.00 | 100 | Horizontal | Pass |
| 4 | 260.075 | 27.99 | -4.75 | 46.0 | 18.01 | Peak | 303.00 | 100 | Horizontal | Pass |
| 5 | 466.148 | 32.88 | -0.48 | 46.0 | 13.12 | Peak | 35.00 | 100 | Horizontal | Pass |
| 6 | 919.753 | 38.27 | 5.55 | 46.0 | 7.73 | Peak | 198.00 | 100 | Horizontal | Pass |

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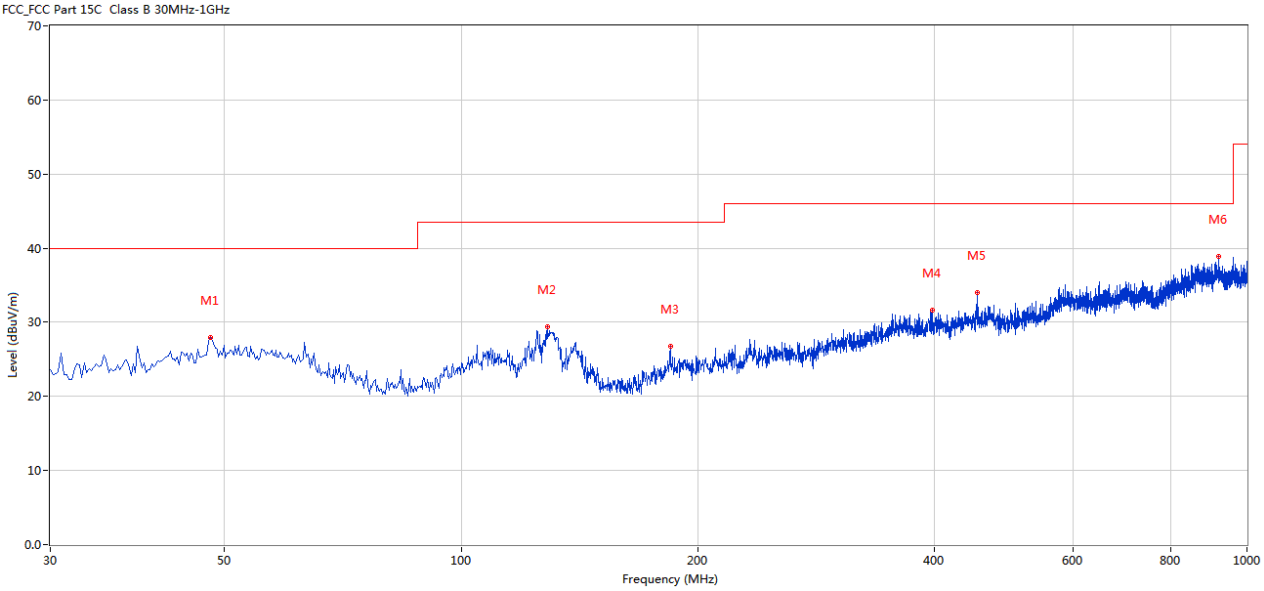
**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: **Keep Transmitting**

**Results:** **Pass**




| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 47.941 | 27.95 | -5.39 | 40.0 | 12.05 | Peak | 326.00 | 100 | Vertical | Pass |
| 2 | 128.673 | 29.39 | -8.48 | 43.5 | 14.11 | Peak | 118.00 | 100 | Vertical | Pass |
| 3 | 184.676 | 26.71 | -7.20 | 43.5 | 16.79 | Peak | 258.00 | 100 | Vertical | Pass |
| 4 | 397.296 | 31.70 | -1.75 | 46.0 | 14.30 | Peak | 288.00 | 100 | Vertical | Pass |
| 5 | 453.784 | 34.02 | -0.84 | 46.0 | 11.98 | Peak | 169.00 | 100 | Vertical | Pass |
| 6 | 920.237 | 38.84 | 5.60 | 46.0 | 7.16 | Peak | 273.00 | 100 | Vertical | Pass |

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**Operation Mode: Transmitting under CH01 for 802.11b mode**

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|---|---|---|---|
| 4824.00 | 61.8 (PK) / 45.7(AV) | H | 74(Peak)/ 54(AV) |
| 4824.00 | 57.2 (PK) / 41.3(AV) | V | 74(Peak)/ 54(AV) |
| 7236.00 | -- | H/V | 74(Peak)/ 54(AV) |
| 9648.00 | -- | H/V | 74(Peak)/ 54(AV) |
| 12060 | -- | H/V | 74(Peak)/ 54(AV) |
| 14472 | -- | H/V | 74(Peak)/ 54(AV) |
| 16884 | -- | H/V | 74(Peak)/ 54(AV) |
| 19296 | -- | H/V | 74(Peak)/ 54(AV) |
| 21708 | -- | H/V | 74(Peak)/ 54(AV) |
| 24120 | -- | H/V | 74(Peak)/ 54(AV) |

**Operation Mode: Transmitting under CH06 for 802.11b mode**

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|---|---|---|---|
| 4874.00 | 62.2 (PK)/ 46.7 (AV) | H | 74(Peak)/ 54(AV) |
| 4874.00 | 57.8 (PK)/ 42.5(AV) | V | 74(Peak)/ 54(AV) |
| 7311.00 | -- | H/V | 74(Peak)/ 54(AV) |
| 9748.00 | -- | H/V | 74(Peak)/ 54(AV) |
| 12185 | -- | H/V | 74(Peak)/ 54(AV) |
| 14622 | -- | H/V | 74(Peak)/ 54(AV) |
| 17059 | -- | H/V | 74(Peak)/ 54(AV) |
| 19496 | -- | H/V | 74(Peak)/ 54(AV) |
| 21933 | -- | H/V | 74(Peak)/ 54(AV) |
| 24370 | -- | H/V | 74(Peak)/ 54(AV) |

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**Operation Mode: Transmitting under CH11 for 802.11b mode**

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|---|---|---|---|
| 4924 | 61.5(PK) / 45.2 (AV) | H | 74(Peak)/ 54(AV) |
| 4924 | 56.8 (PK) / 41.0 (AV) | V | 74(Peak)/ 54(AV) |
| 7368 | -- | H/V | 74(Peak)/ 54(AV) |
| 9848 | -- | H/V | 74(Peak)/ 54(AV) |
| 12310 | -- | H/V | 74(Peak)/ 54(AV) |
| 14772 | -- | H/V | 74(Peak)/ 54(AV) |
| 17234 | -- | H/V | 74(Peak)/ 54(AV) |
| 19696 | -- | H/V | 74(Peak)/ 54(AV) |
| 22158 | -- | H/V | 74(Peak)/ 54(AV) |
| 24620 | -- | H/V | 74(Peak)/ 54(AV) |

Note: 1. Result Level = Reading + Factor

2. Factor= AF + Cable Loss- Preamp

3. Margin = Result– Limit

4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

5. Note: the final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

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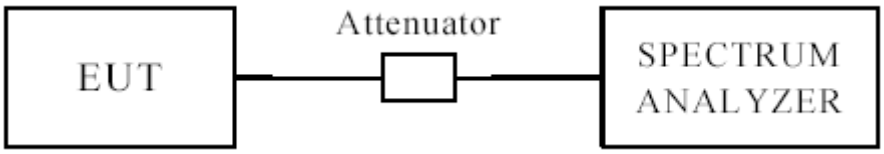
## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup




### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

### 7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.4 Test Result

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## 6dB Occupied Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | b | 2412 | Ant1 | 7.547 | 0.5 | Pass |
| | | 2437 | | 8.025 | 0.5 | Pass |
| | | 2462 | | 7.556 | 0.5 | Pass |
| | g | 2412 | | 16.338 | 0.5 | Pass |
| | | 2437 | | 16.317 | 0.5 | Pass |
| | | 2462 | | 16.345 | 0.5 | Pass |
| | n20 | 2412 | | 17.606 | 0.5 | Pass |
| | | 2437 | | 17.56 | 0.5 | Pass |
| | | 2462 | | 17.551 | 0.5 | Pass |
| | n40 | 2422 | | 36.319 | 0.5 | Pass |
| | | 2437 | | 36.082 | 0.5 | Pass |
| | | 2452 | | 36.297 | 0.5 | Pass |
| | ax20 | 2412 | | 19.023 | 0.5 | Pass |
| | | 2437 | | 19.064 | 0.5 | Pass |
| | | 2462 | | 19.031 | 0.5 | Pass |
| | ax40 | 2422 | | 37.978 | 0.5 | Pass |
| | | 2437 | | 37.999 | 0.5 | Pass |
| | | 2452 | | 37.766 | 0.5 | Pass |

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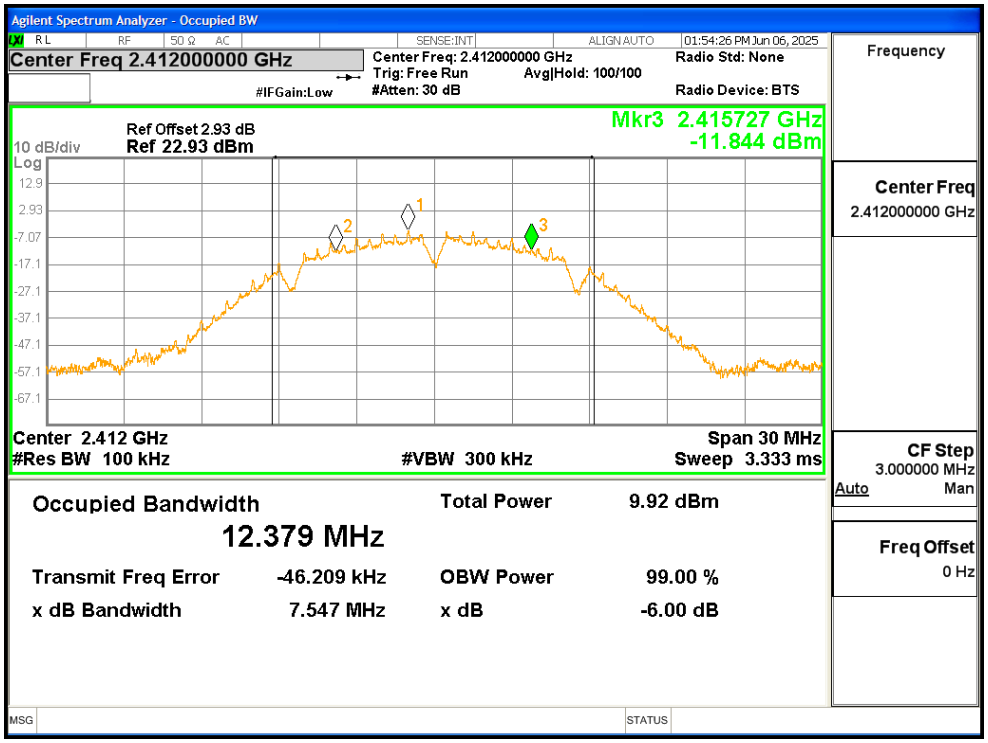
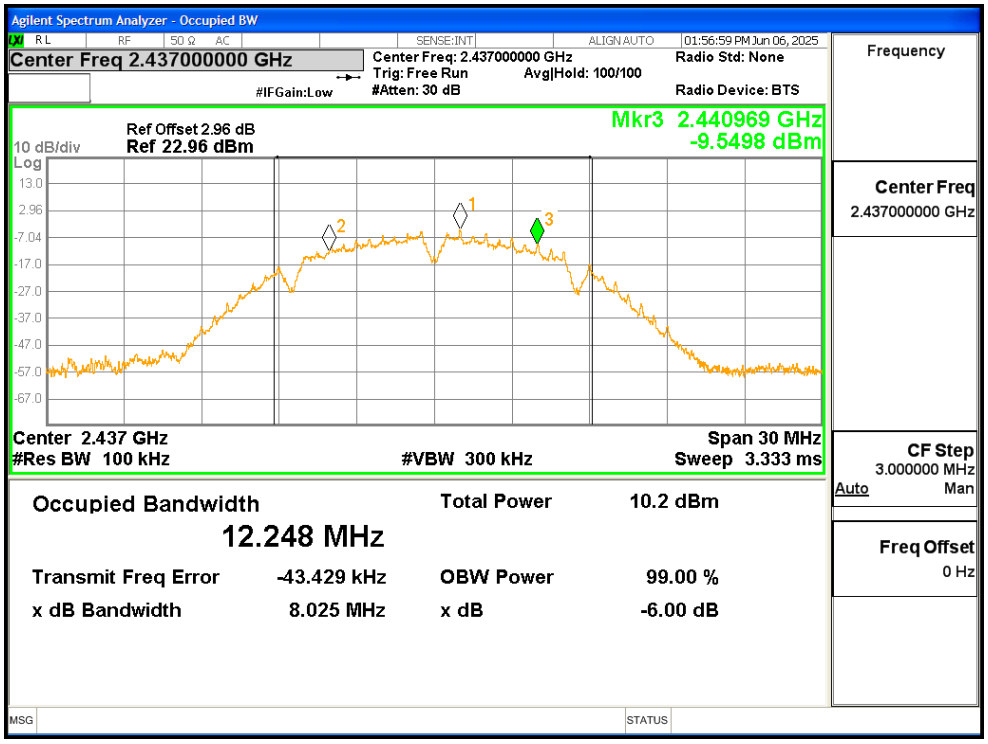
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1




-6dB Bandwidth NVNT b 2437MHz Ant1

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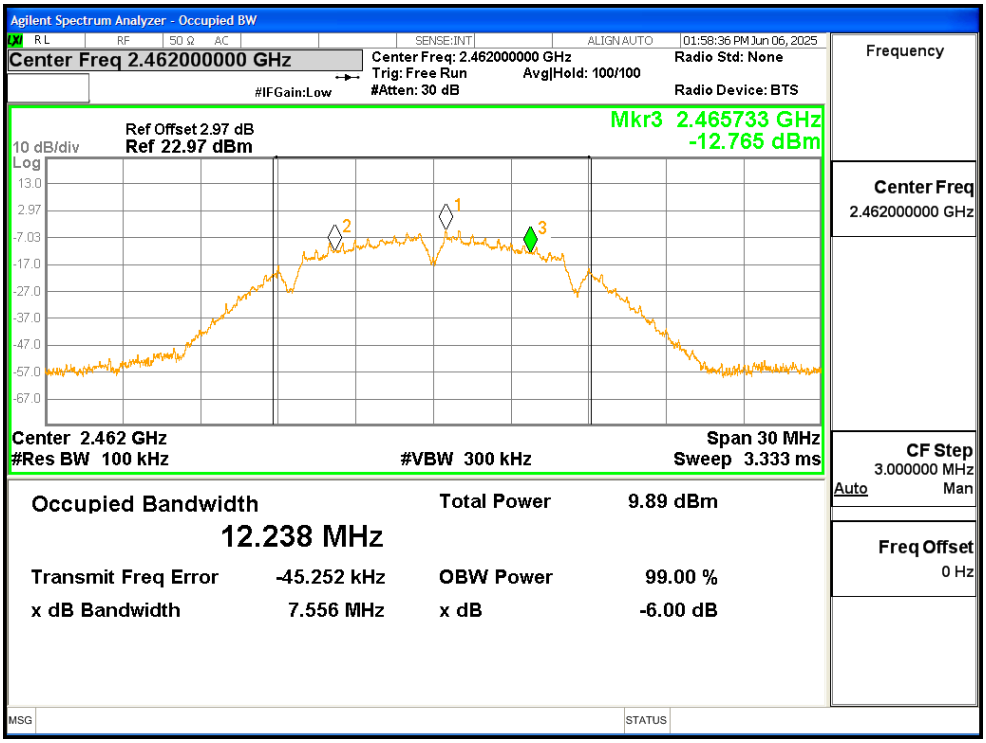
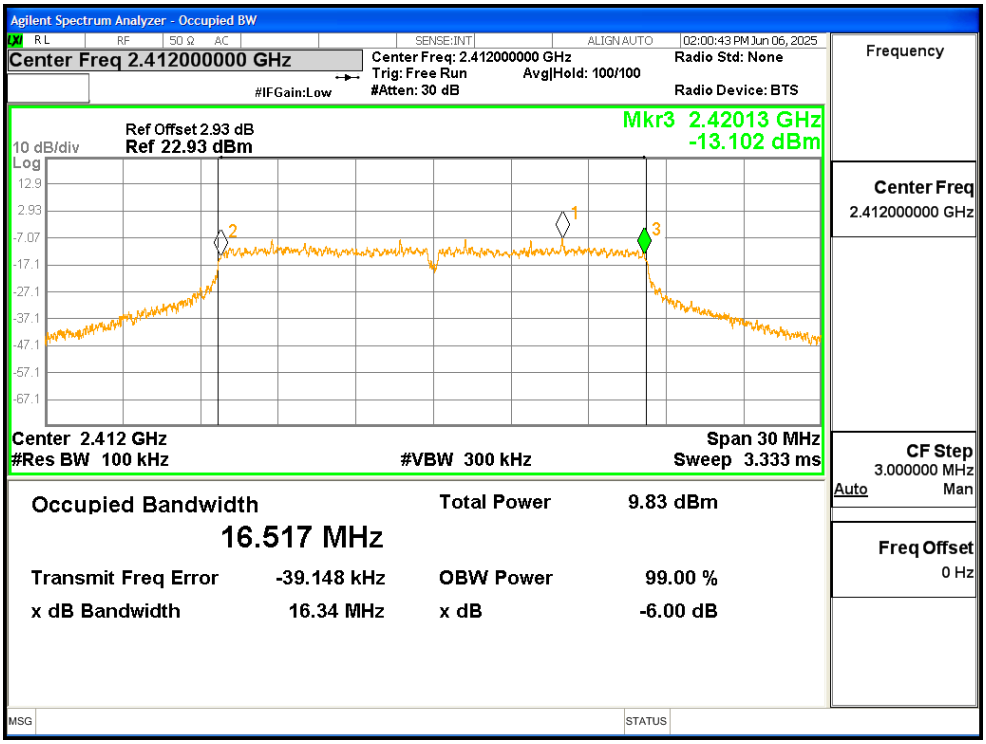
-6dB Bandwidth NVNT b 2462MHz Ant1




-6dB Bandwidth NVNT g 2412MHz Ant1

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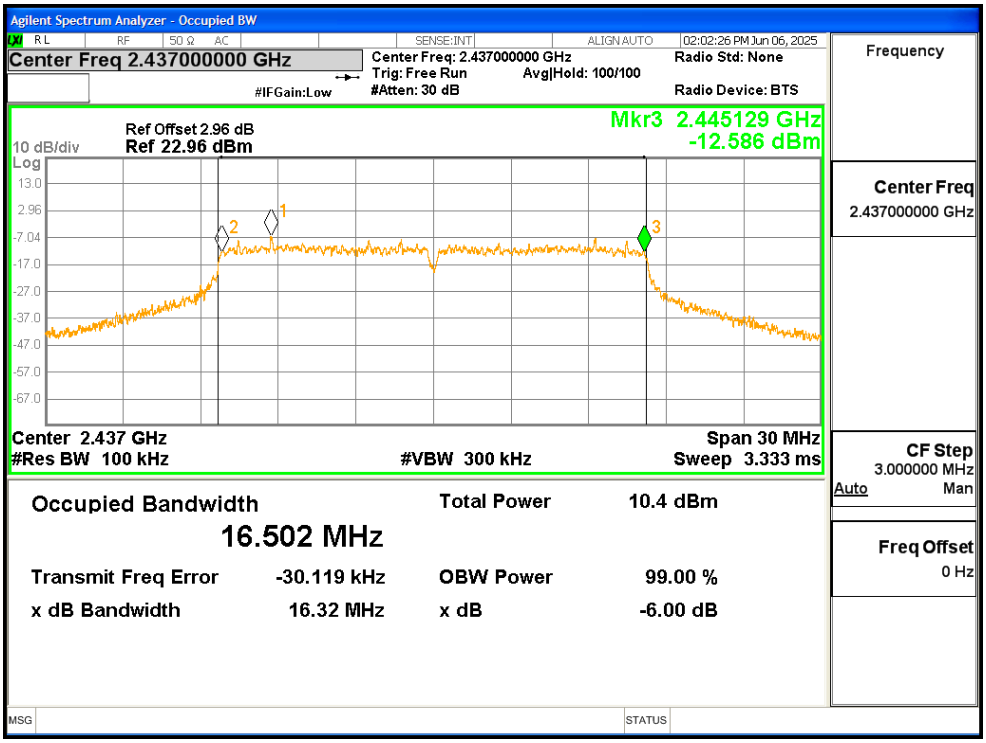
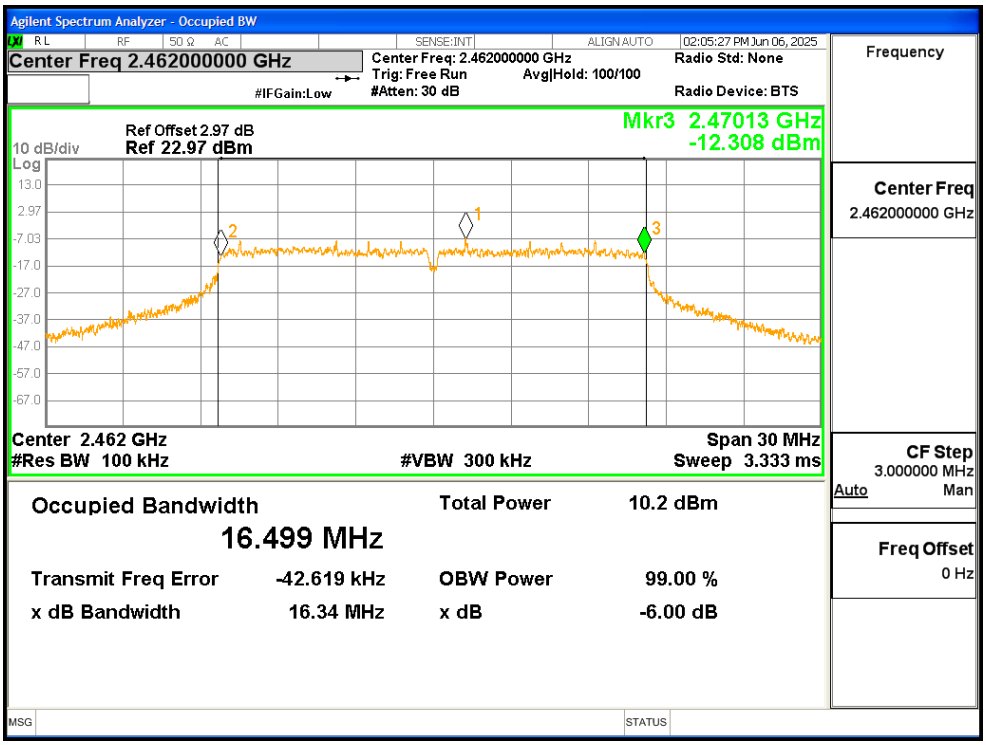
-6dB Bandwidth NVNT g 2437MHz Ant1




-6dB Bandwidth NVNT g 2462MHz Ant1

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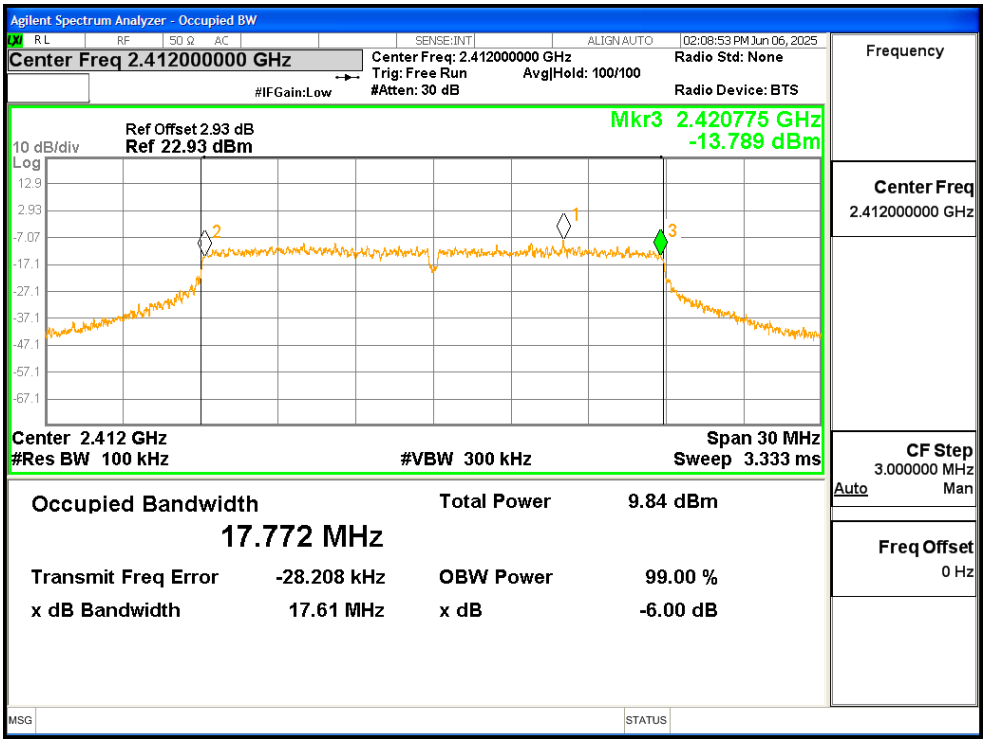
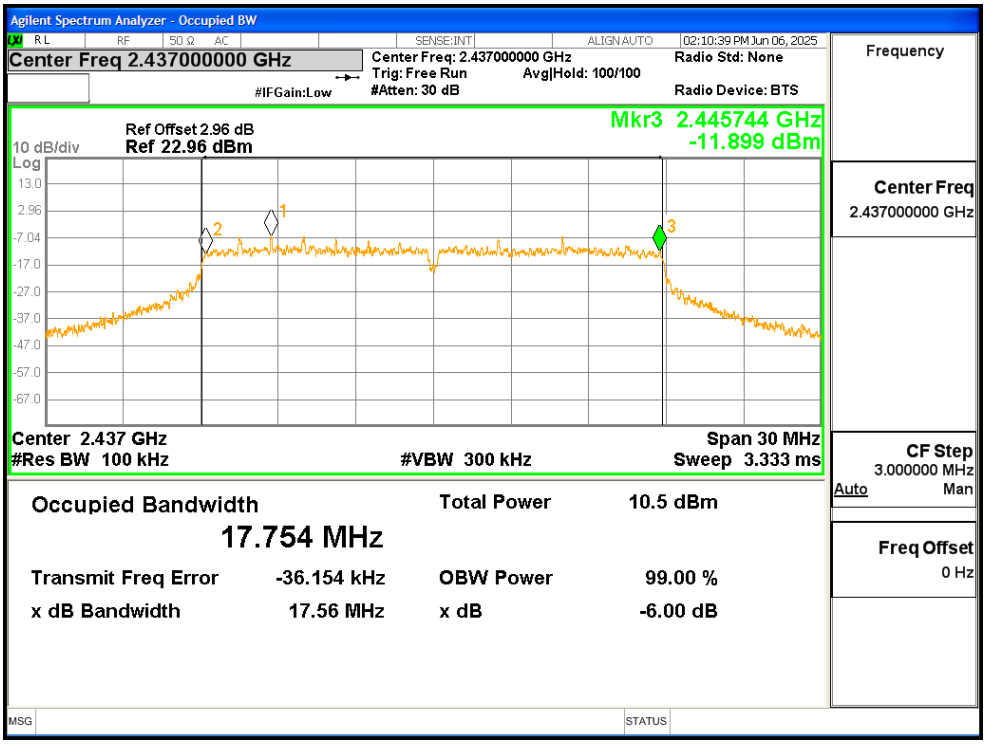
-6dB Bandwidth NVNT n20 2412MHz Ant1




-6dB Bandwidth NVNT n20 2437MHz Ant1

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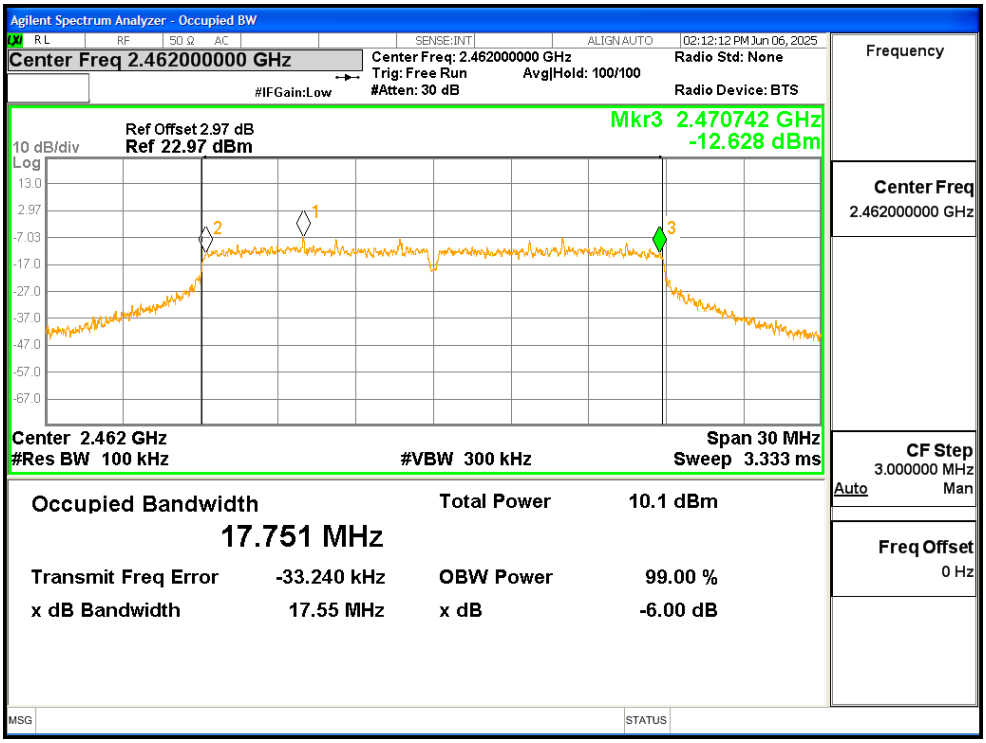
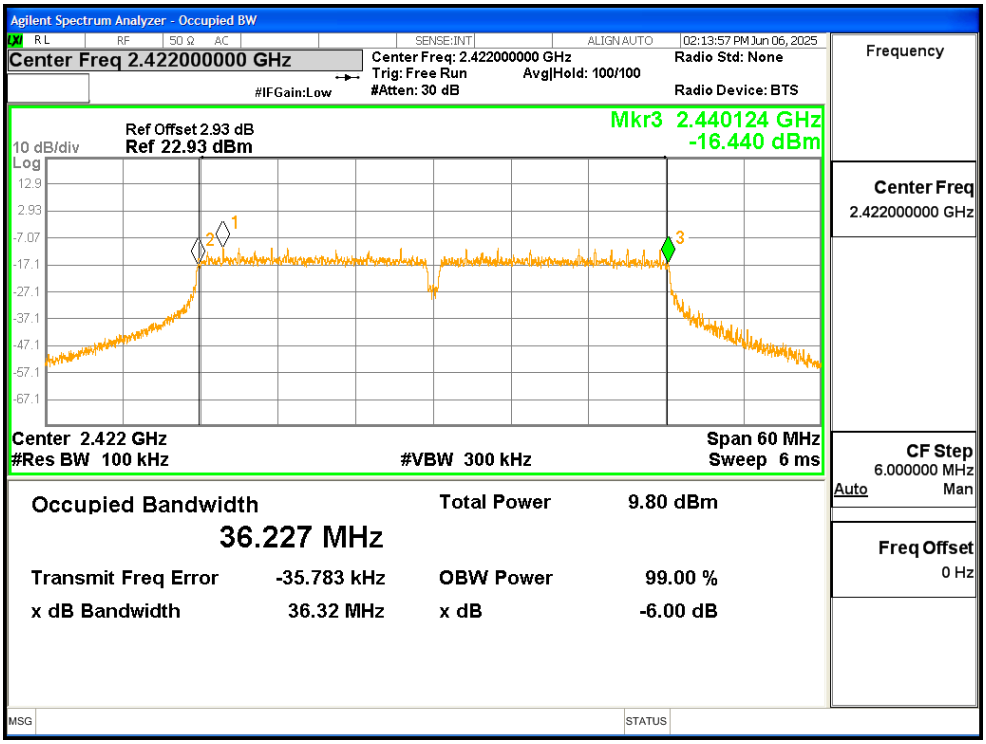
-6dB Bandwidth NVNT n20 2462MHz Ant1




-6dB Bandwidth NVNT n40 2422MHz Ant1

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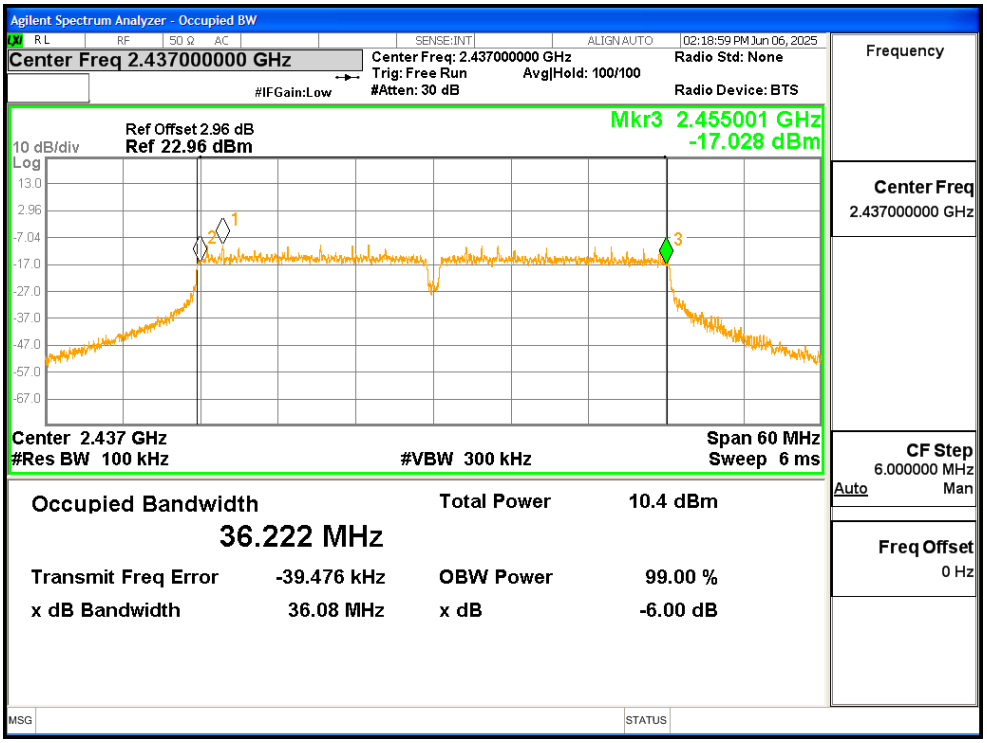
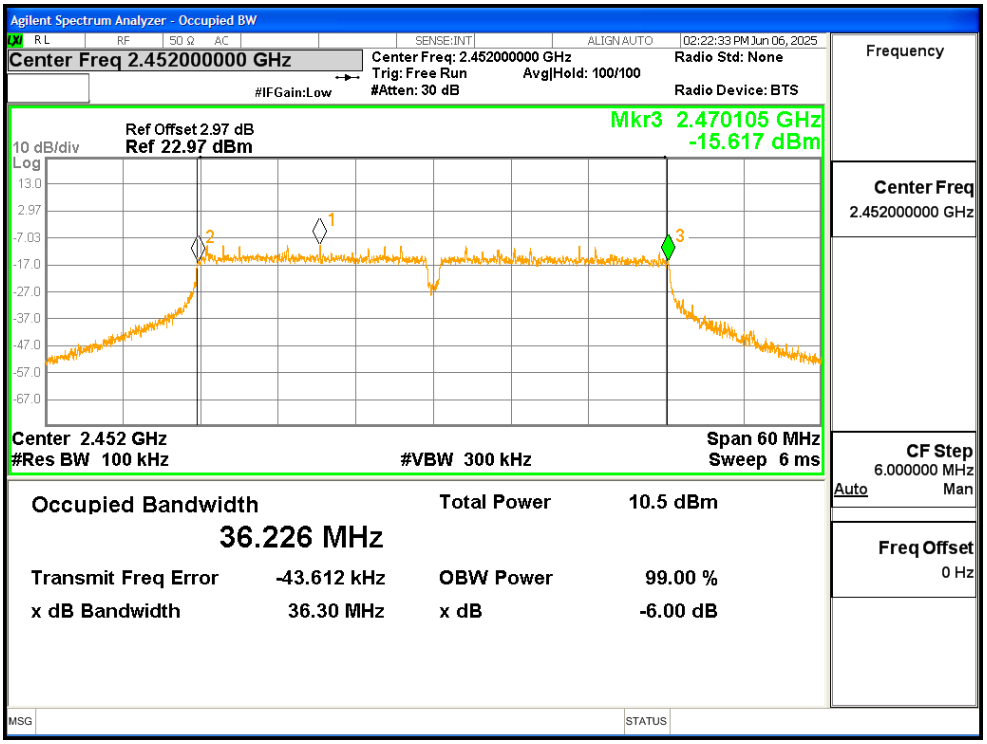
-6dB Bandwidth NVNT n40 2437MHz Ant1




-6dB Bandwidth NVNT n40 2452MHz Ant1

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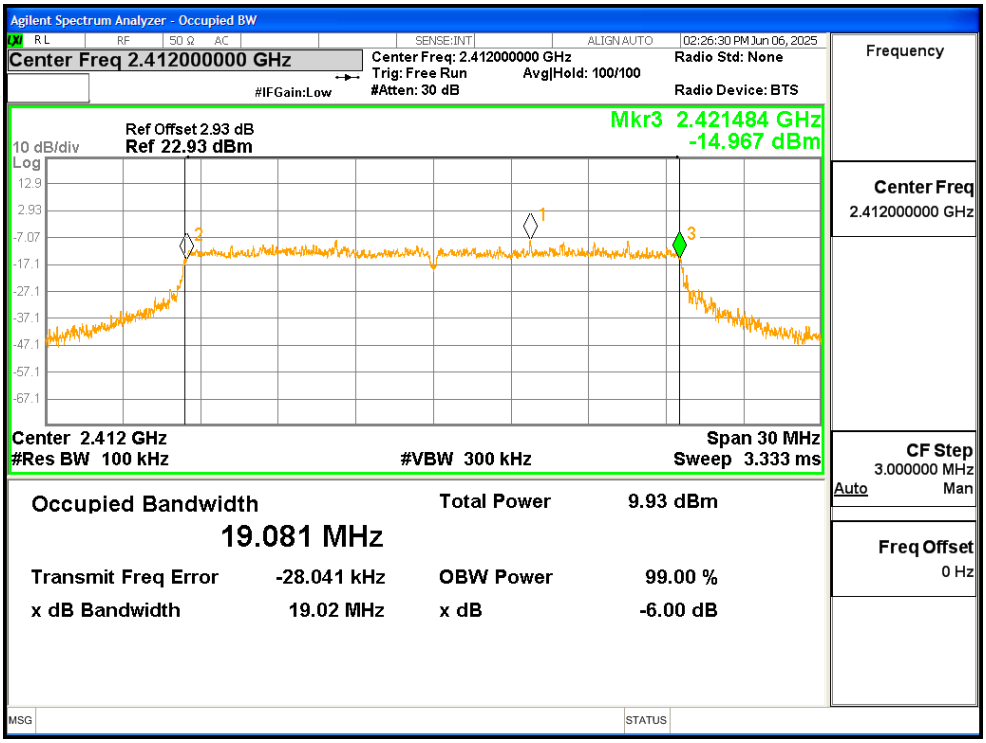
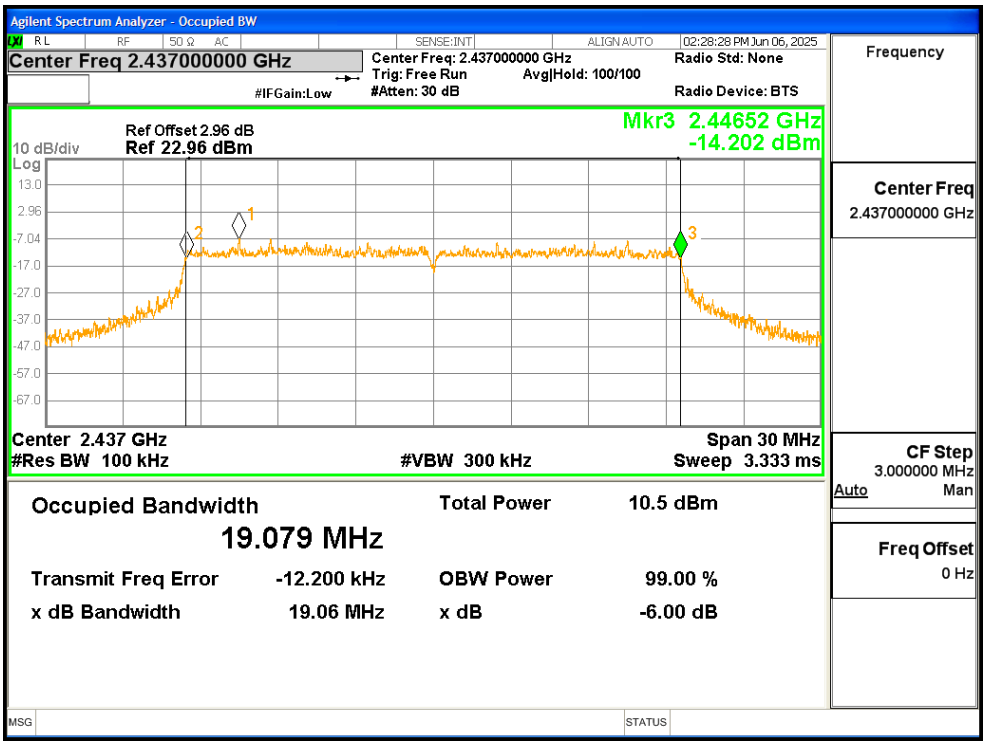
-6dB Bandwidth NVNT ax20 2412MHz Ant1




-6dB Bandwidth NVNT ax20 2437MHz Ant1

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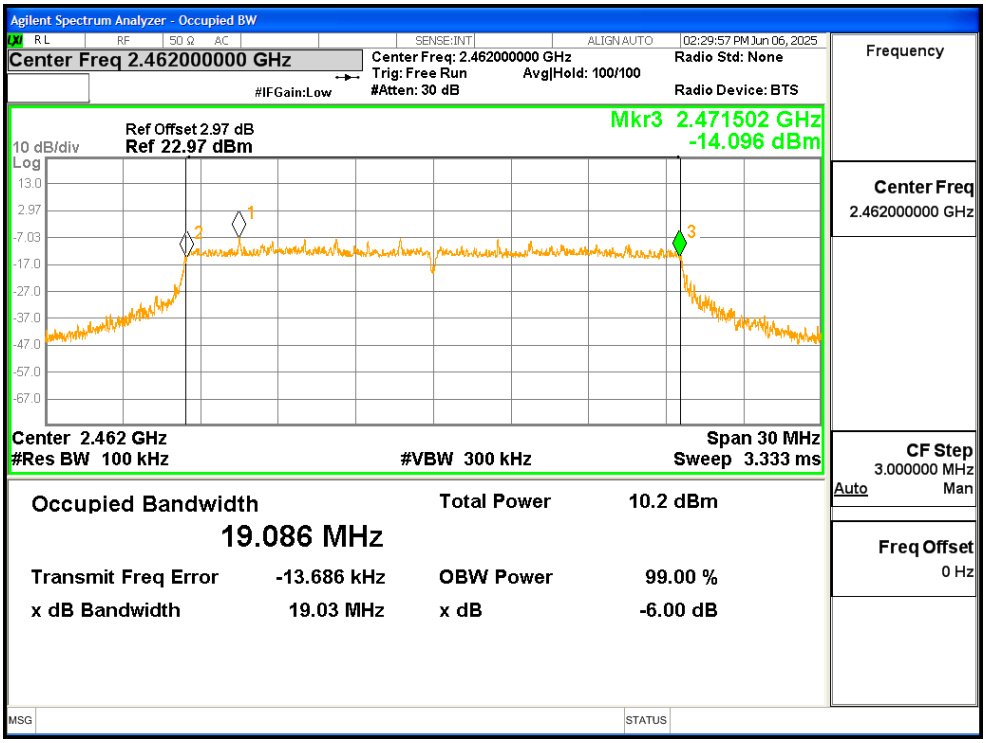
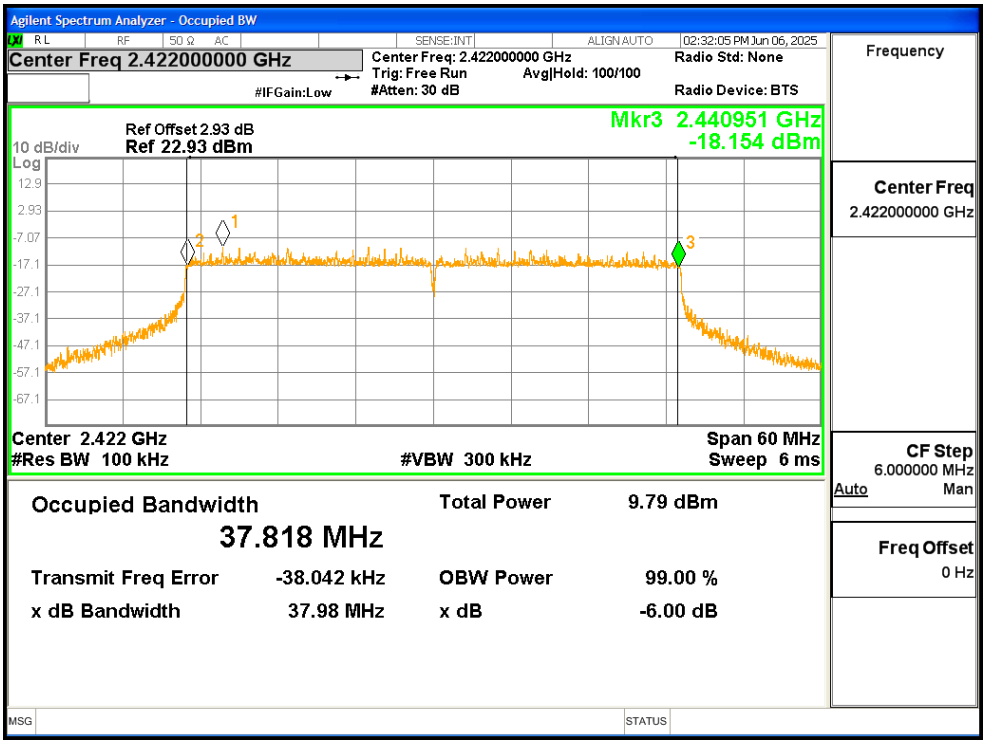
-6dB Bandwidth NVNT ax20 2462MHz Ant1




-6dB Bandwidth NVNT ax40 2422MHz Ant1

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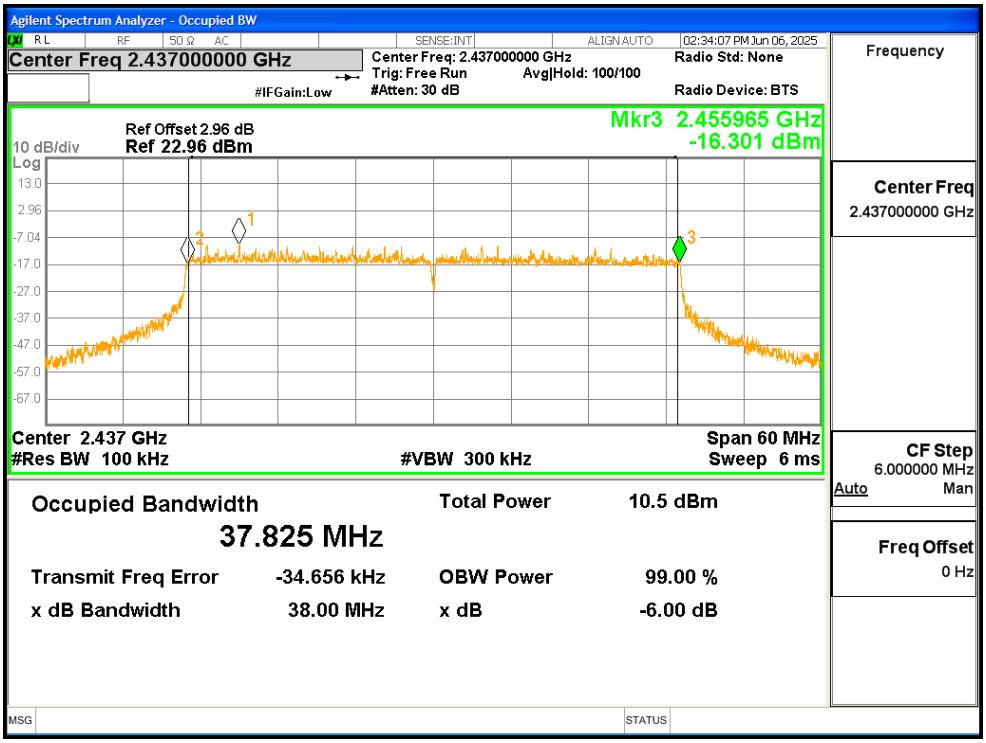
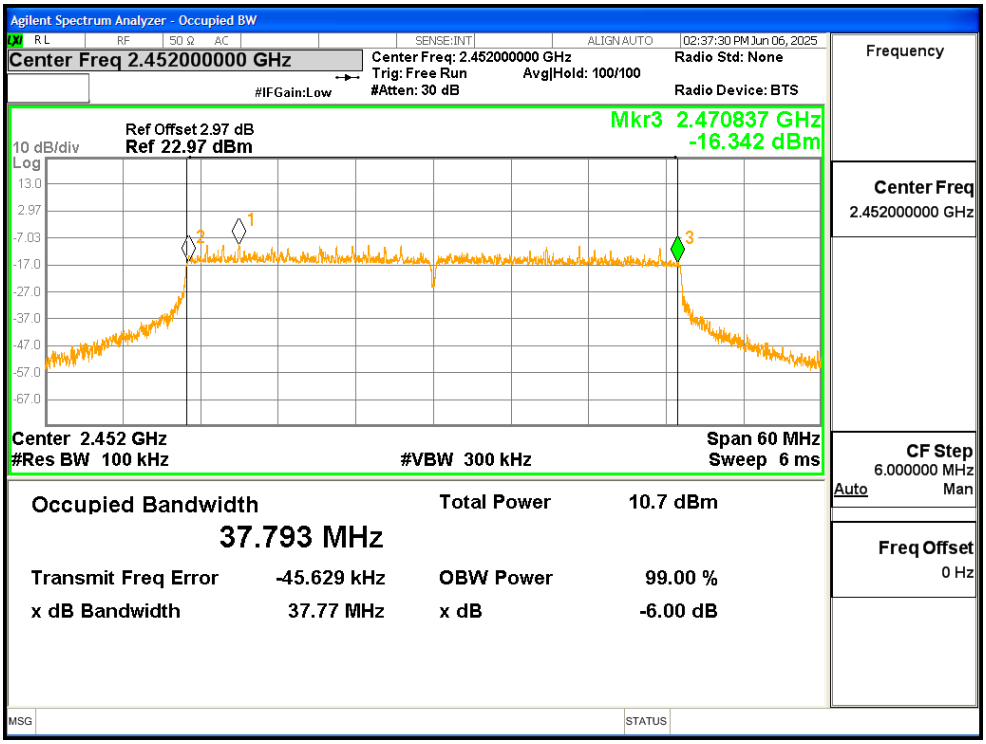
-6dB Bandwidth NVNT ax40 2437MHz Ant1




-6dB Bandwidth NVNT ax40 2452MHz Ant1

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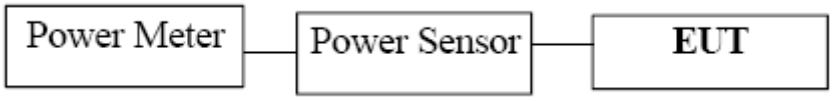
# 8. Maximum Output Power

## 8.1 Test Setup




## 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

## 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

**Note: The AV power was measured**

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## 8.4Test Results

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | b | 2412 | Ant1 | 4.17 | 0 | 4.17 | 30 | Pass |
| | | 2437 | | 4.22 | 0 | 4.22 | 30 | Pass |
| | | 2462 | | 3.95 | 0 | 3.95 | 30 | Pass |
| | g | 2412 | | 4.64 | 0 | 4.64 | 30 | Pass |
| | | 2437 | | 5.02 | 0 | 5.02 | 30 | Pass |
| | | 2462 | | 4.72 | 0 | 4.72 | 30 | Pass |
| | n20 | 2412 | | 4.62 | 0 | 4.62 | 30 | Pass |
| | | 2437 | | 4.98 | 0 | 4.98 | 30 | Pass |
| | | 2462 | | 4.71 | 0 | 4.71 | 30 | Pass |
| | n40 | 2422 | | 4.18 | 0 | 4.18 | 30 | Pass |
| | | 2437 | | 4.83 | 0 | 4.83 | 30 | Pass |
| | | 2452 | | 4.9 | 0 | 4.9 | 30 | Pass |
| | ax20 | 2412 | | 4.59 | 0 | 4.59 | 30 | Pass |
| | | 2437 | | 5 | 0 | 5 | 30 | Pass |
| | | 2462 | | 4.67 | 0 | 4.67 | 30 | Pass |
| | ax40 | 2422 | | 4.16 | 0 | 4.16 | 30 | Pass |
| | | 2437 | | 4.85 | 0 | 4.85 | 30 | Pass |
| | | 2452 | | 4.86 | 0 | 4.86 | 30 | Pass |

Note: 1. The worst-cases were recorded

2. The result basic equation calculation as follow:

Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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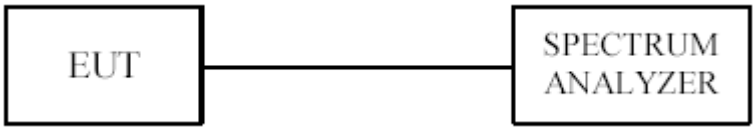
# 9. Power Spectral Density Measurement

## 9.1 Test Setup




## 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

## 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 100 kHz.
3. Set the VBW ≥ 300 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be ≤ 8 dBm/3kHz.

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## 9.4Test Result

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/100kHz) | Duty Factor (dB) | Total PSD (dBm/100kHz) | Limit (dBm/3kHz) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | b | 2412 | Ant1 | -5.12 | 0 | -5.12 | 8 | Pass |
| | | 2437 | | -3.91 | 0 | -3.91 | 8 | Pass |
| | | 2462 | | -4.79 | 0 | -4.79 | 8 | Pass |
| | g | 2412 | | -8.26 | 0 | -8.26 | 8 | Pass |
| | | 2437 | | -7.35 | 0 | -7.35 | 8 | Pass |
| | | 2462 | | -7.74 | 0 | -7.74 | 8 | Pass |
| | n20 | 2412 | | -7.5 | 0 | -7.5 | 8 | Pass |
| | | 2437 | | -7.67 | 0 | -7.67 | 8 | Pass |
| | | 2462 | | -7.21 | 0 | -7.21 | 8 | Pass |
| | n40 | 2422 | | -10.47 | 0 | -10.47 | 8 | Pass |
| | | 2437 | | -9.71 | 0 | -9.71 | 8 | Pass |
| | | 2452 | | -9.35 | 0 | -9.35 | 8 | Pass |
| | ax20 | 2412 | | -7.35 | 0 | -7.35 | 8 | Pass |
| | | 2437 | | -7.58 | 0 | -7.58 | 8 | Pass |
| | | 2462 | | -7.67 | 0 | -7.67 | 8 | Pass |
| | ax40 | 2422 | | -10.58 | 0 | -10.58 | 8 | Pass |
| | | 2437 | | -9.62 | 0 | -9.62 | 8 | Pass |
| | | 2452 | | -9.66 | 0 | -9.66 | 8 | Pass |

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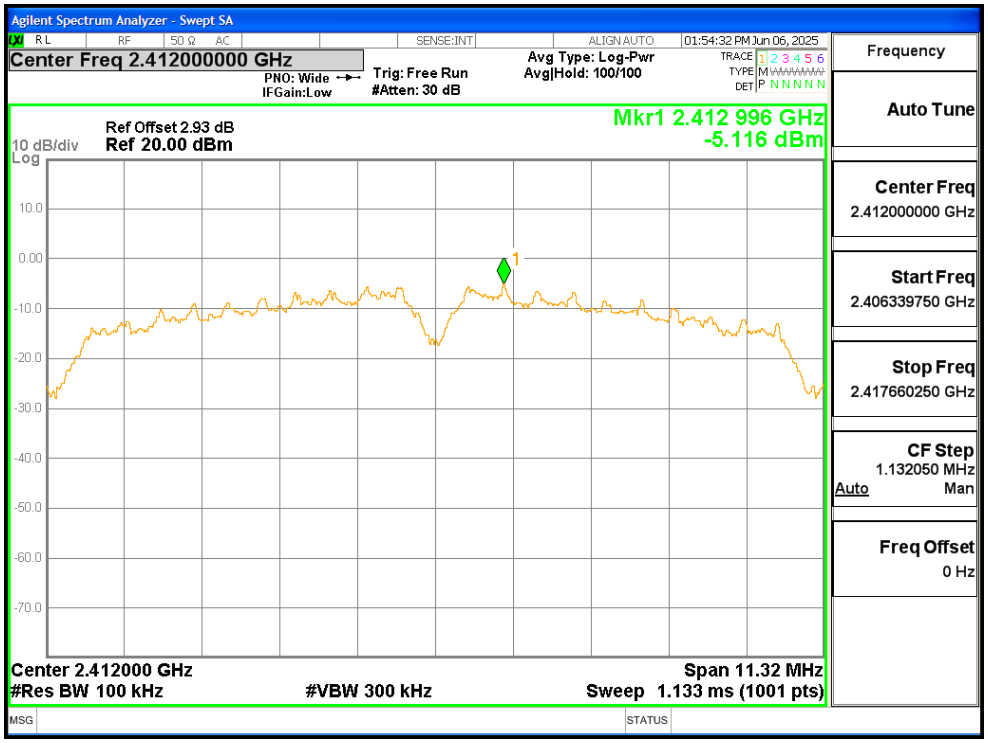
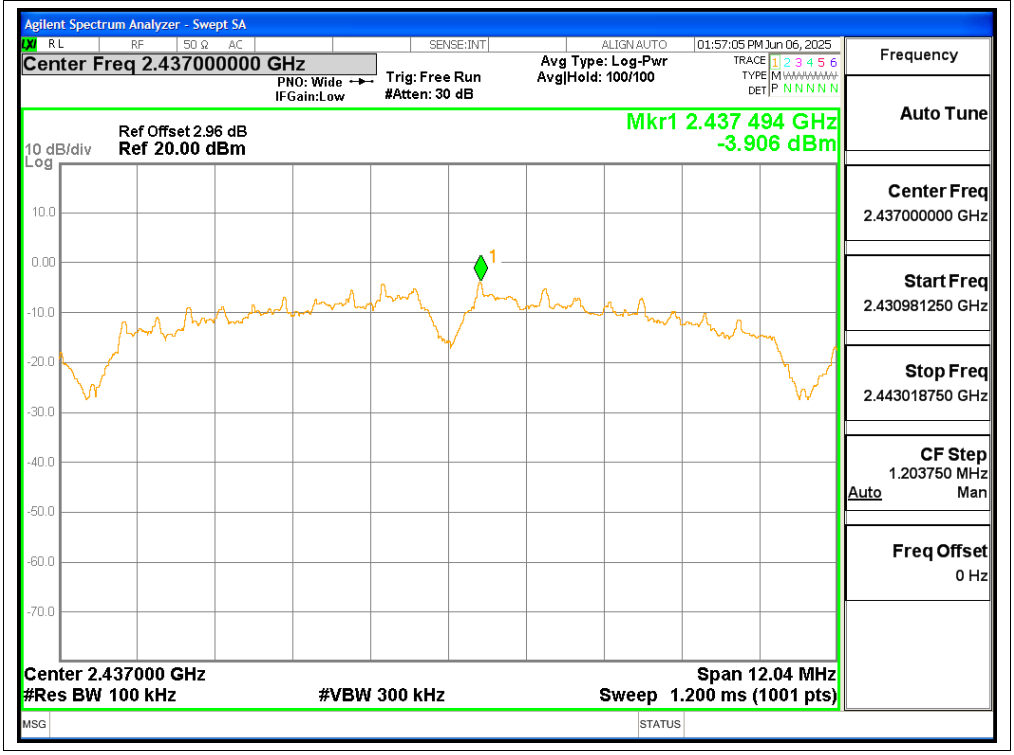
Test Graphs

PSD NVNT b 2412MHz Ant1




PSD NVNT b 2437MHz Ant1

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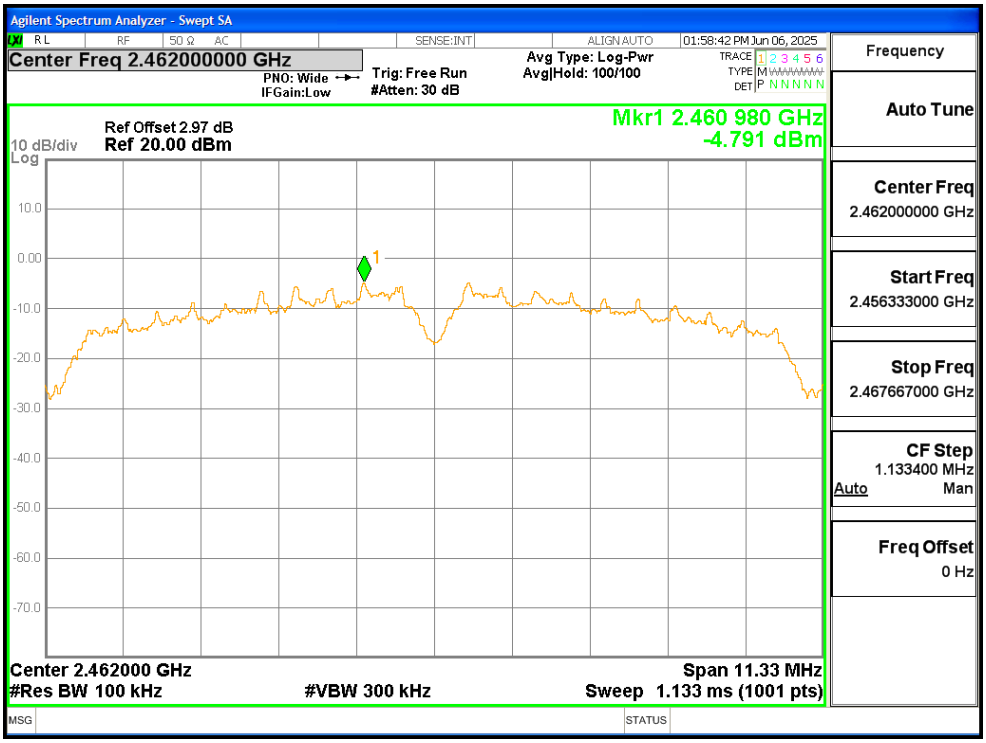
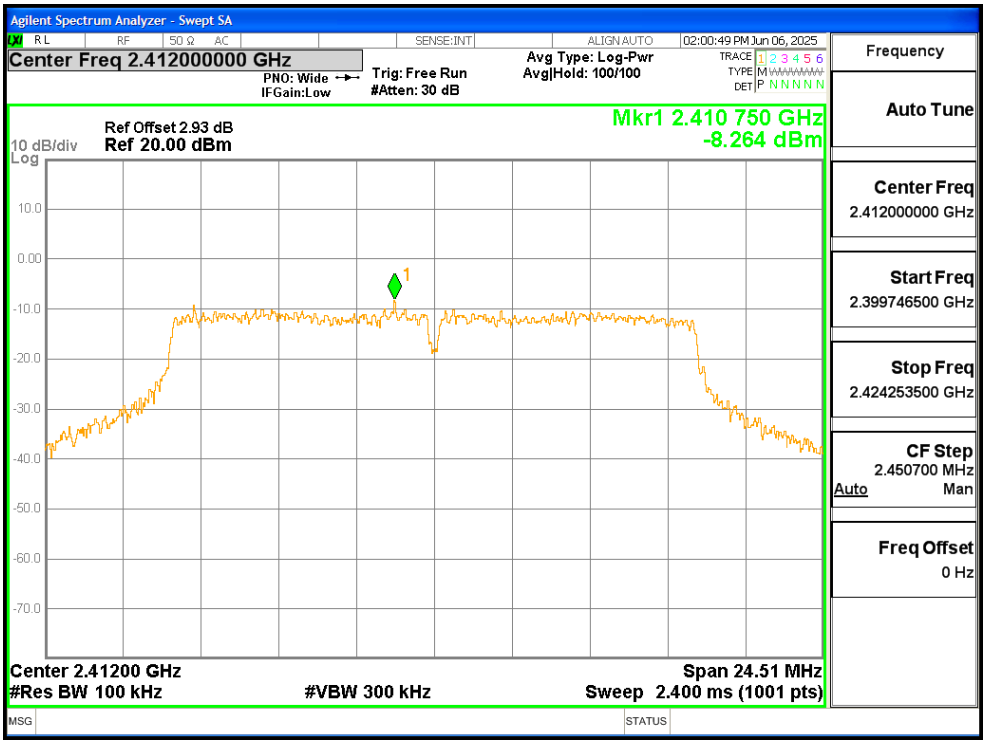
PSD NVNT b 2462MHz Ant1




PSD NVNT g 2412MHz Ant1

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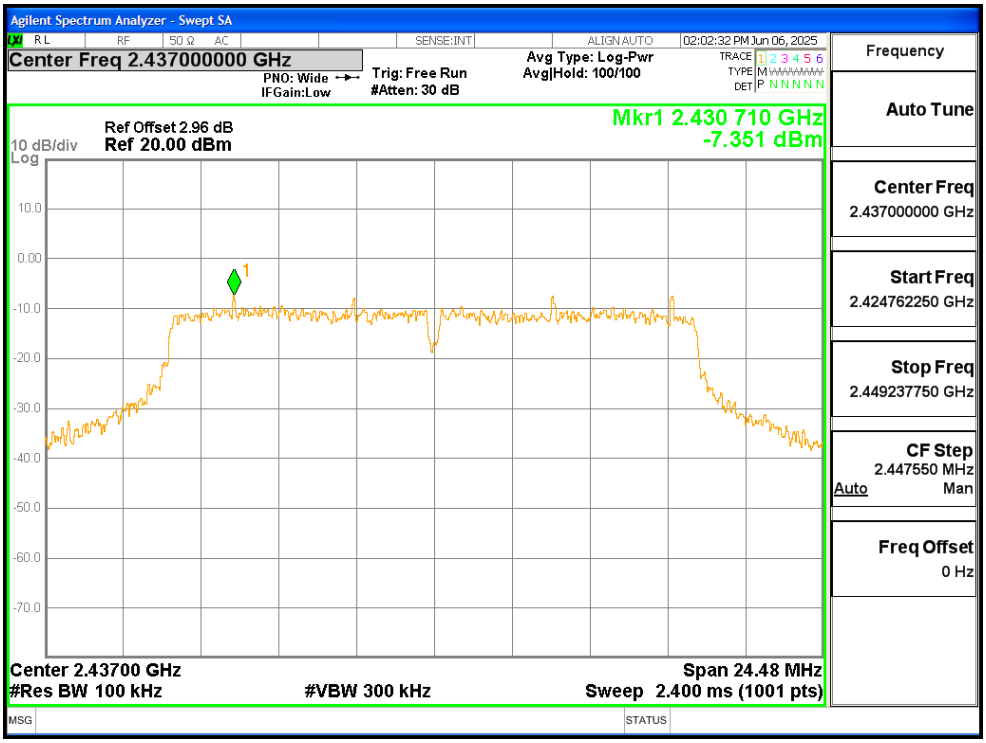
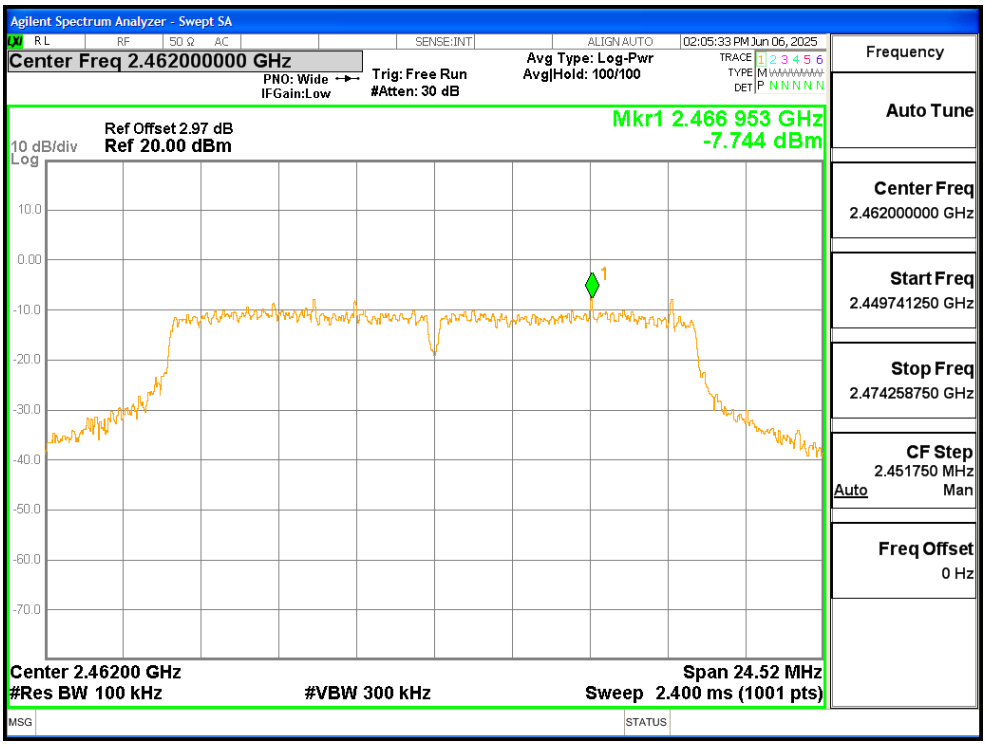
PSD NVNT g 2437MHz Ant1




PSD NVNT g 2462MHz Ant1

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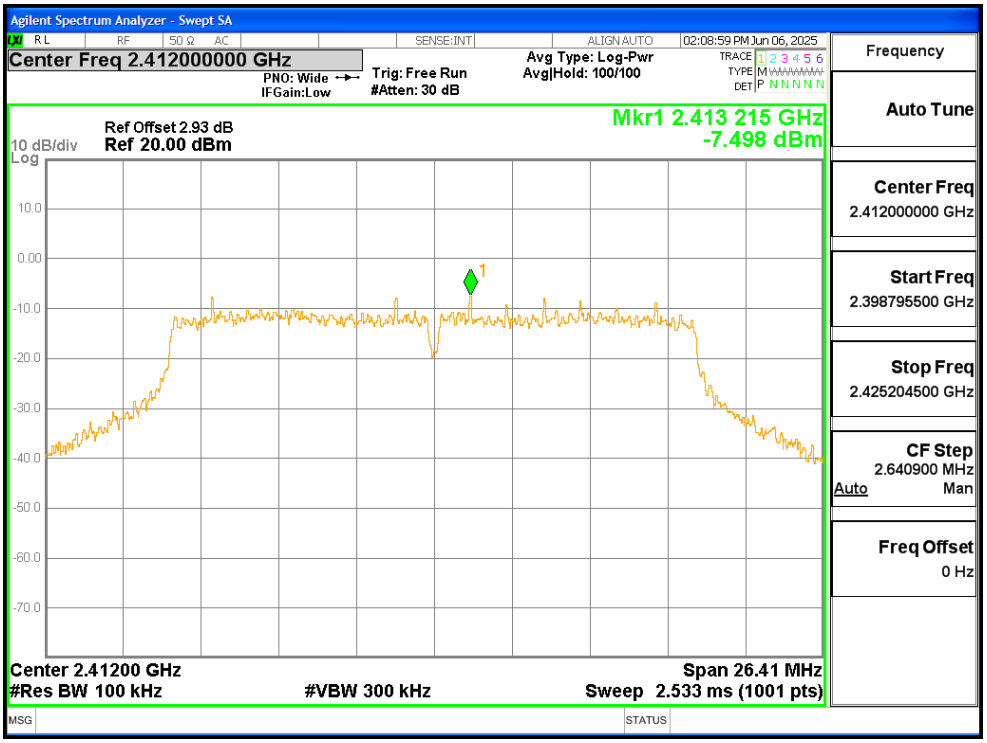
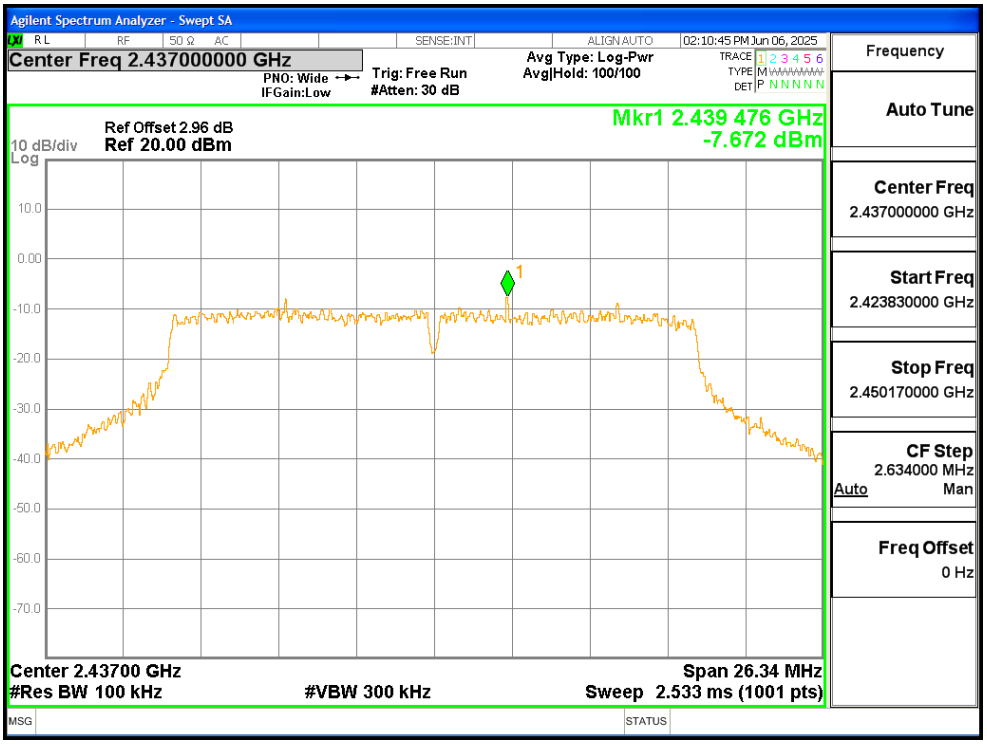
PSD NVNT n20 2412MHz Ant1




PSD NVNT n20 2437MHz Ant1

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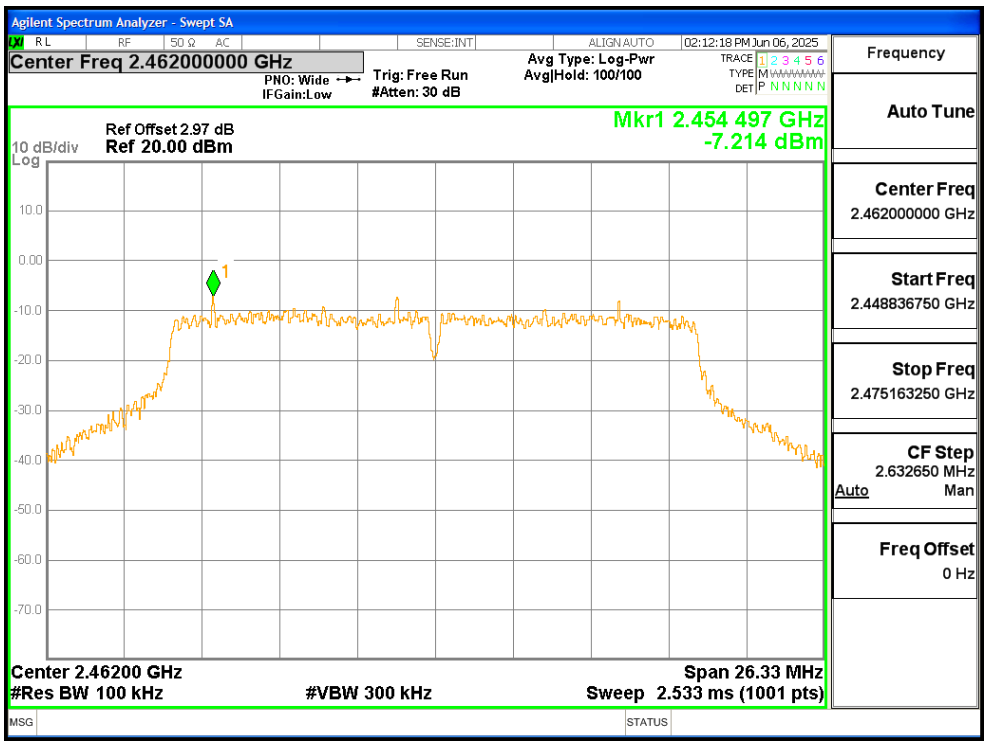
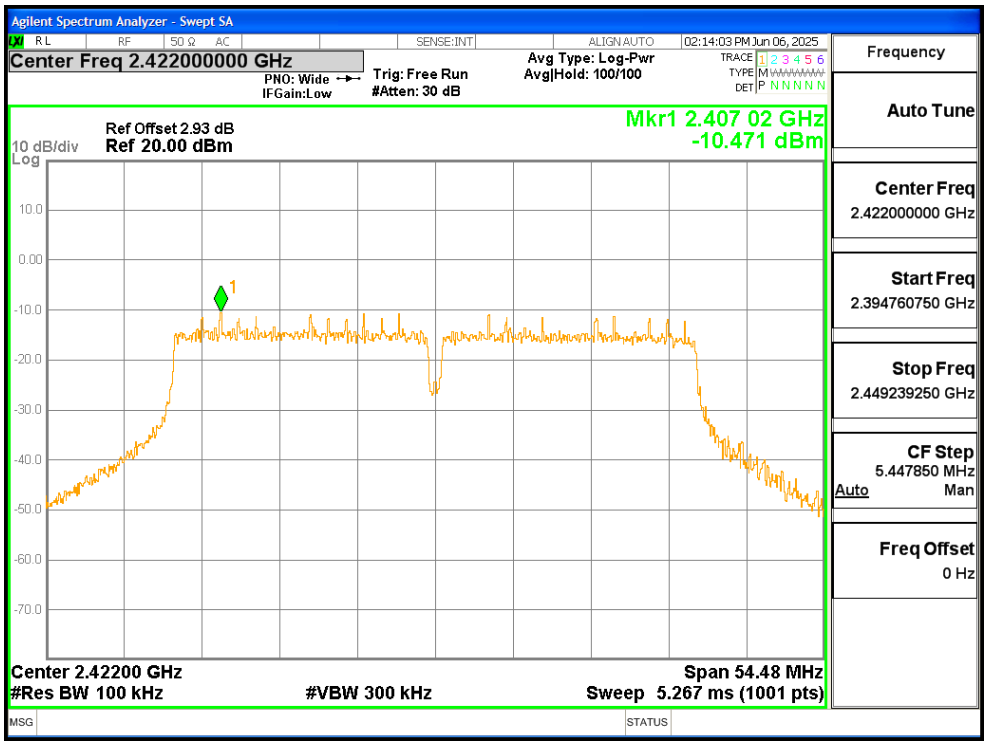
PSD NVNT n20 2462MHz Ant1




PSD NVNT n40 2422MHz Ant1

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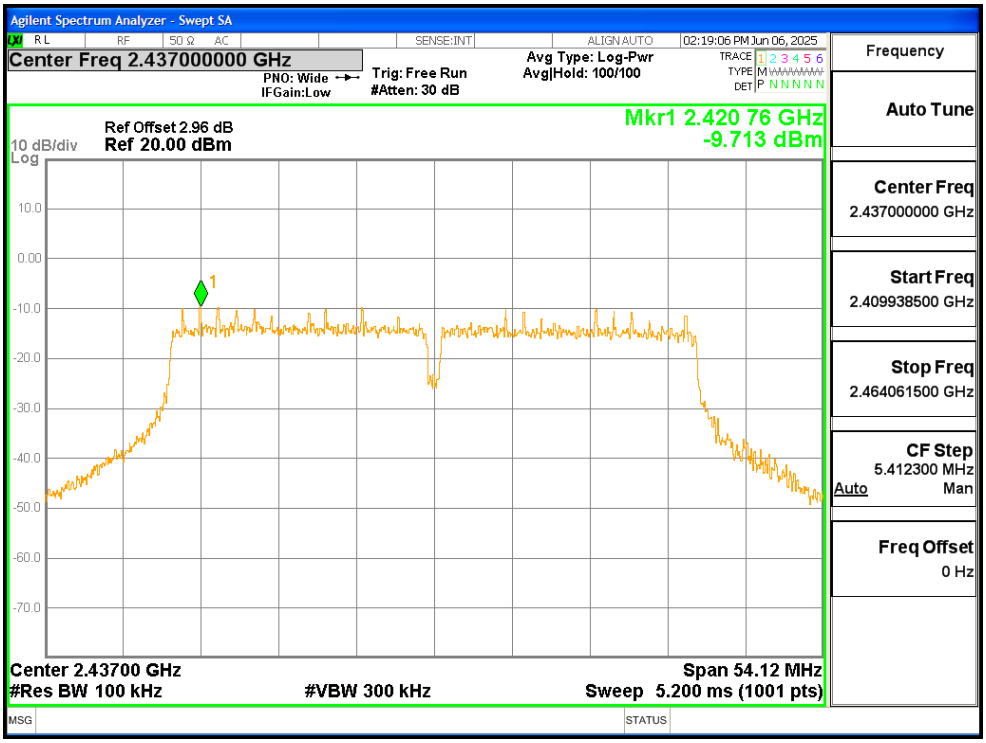
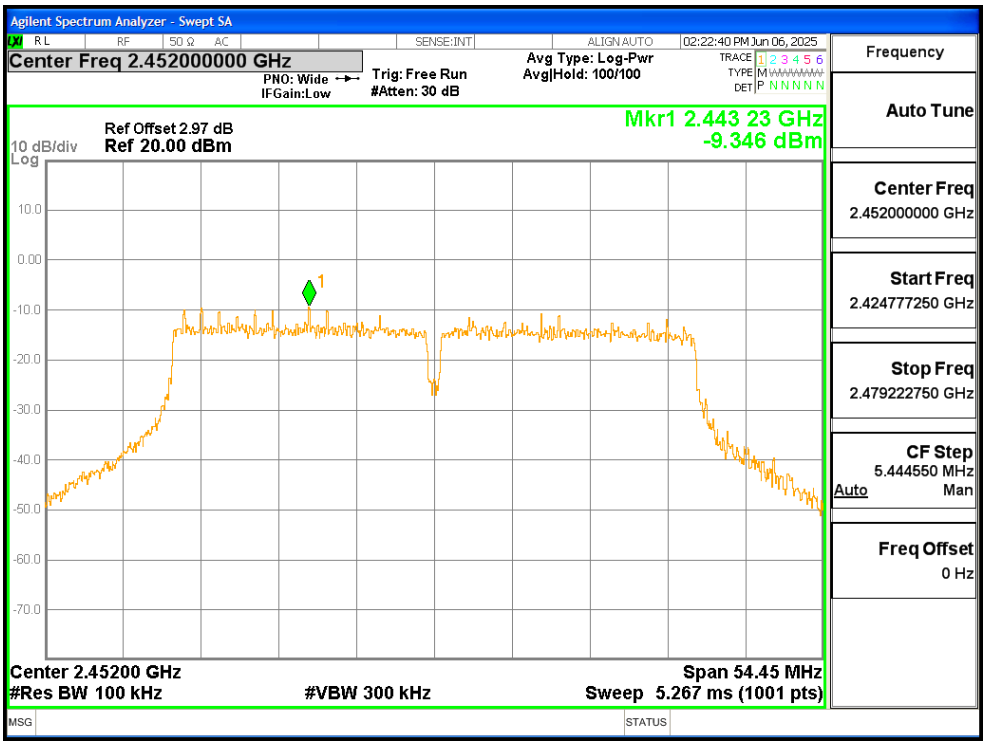
PSD NVNT n40 2437MHz Ant1




PSD NVNT n40 2452MHz Ant1

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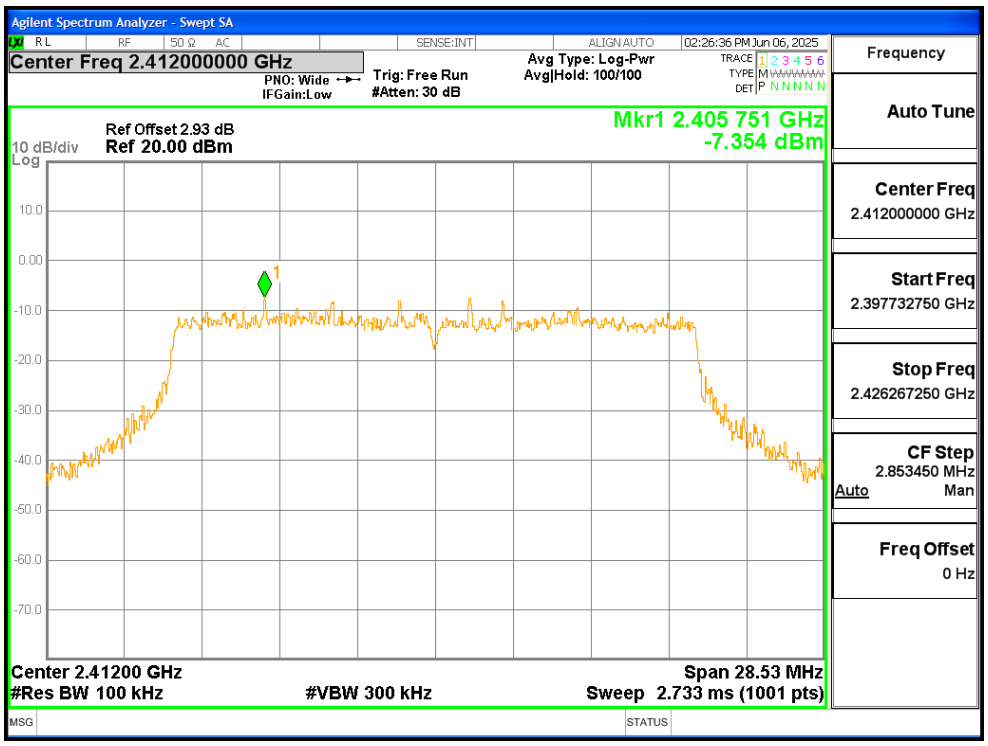
PSD NVNT ax20 2412MHz Ant1

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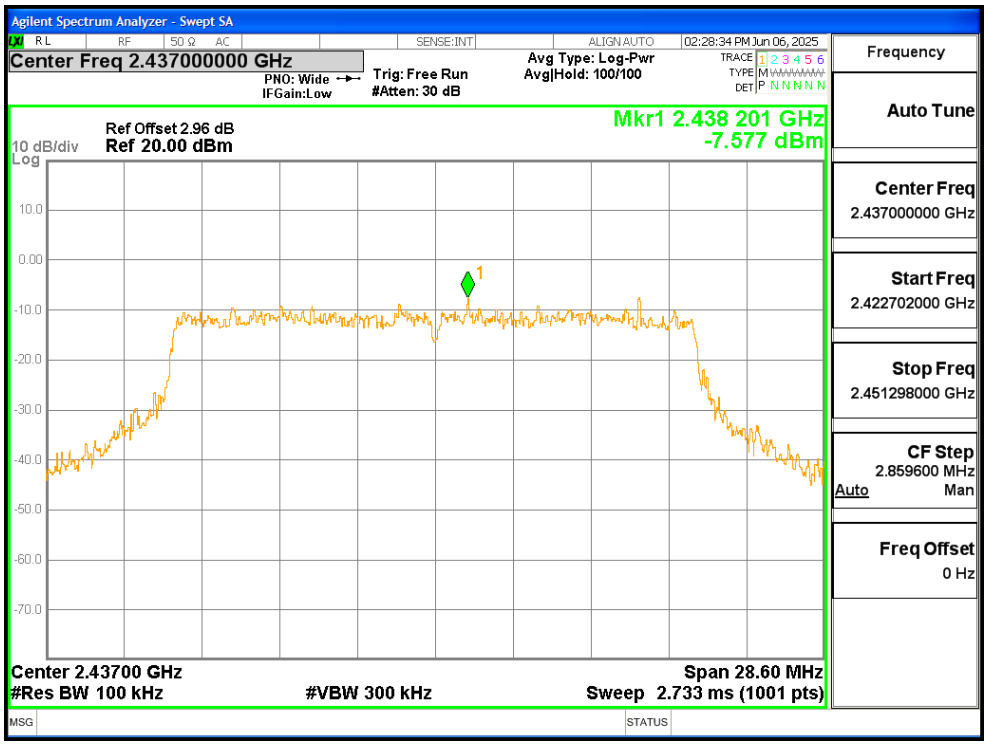


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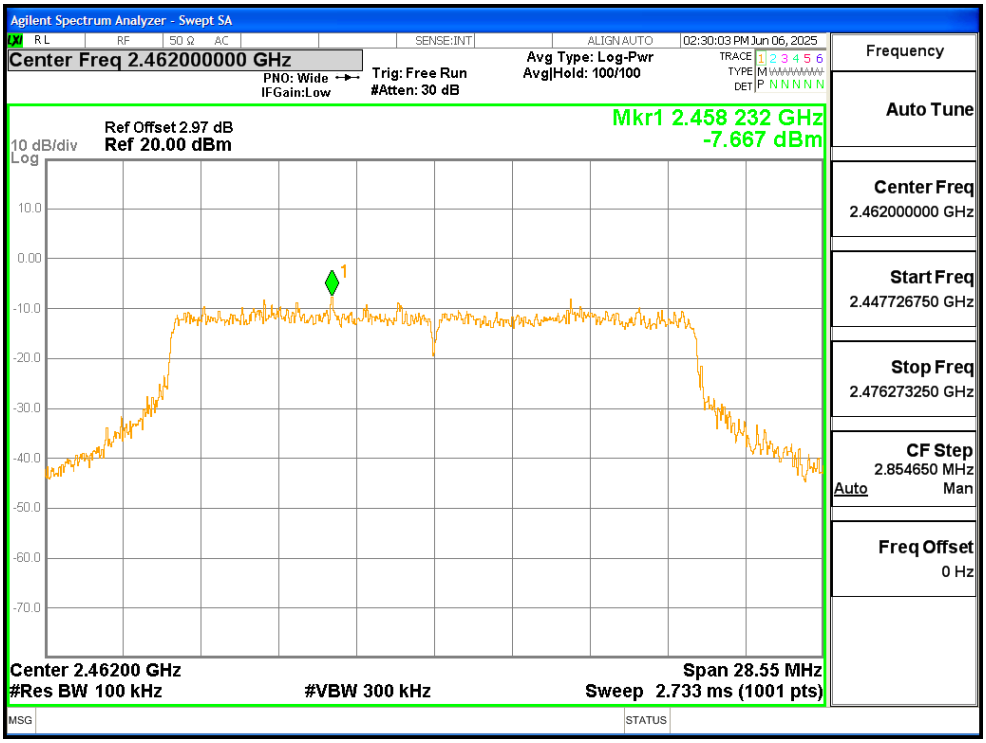
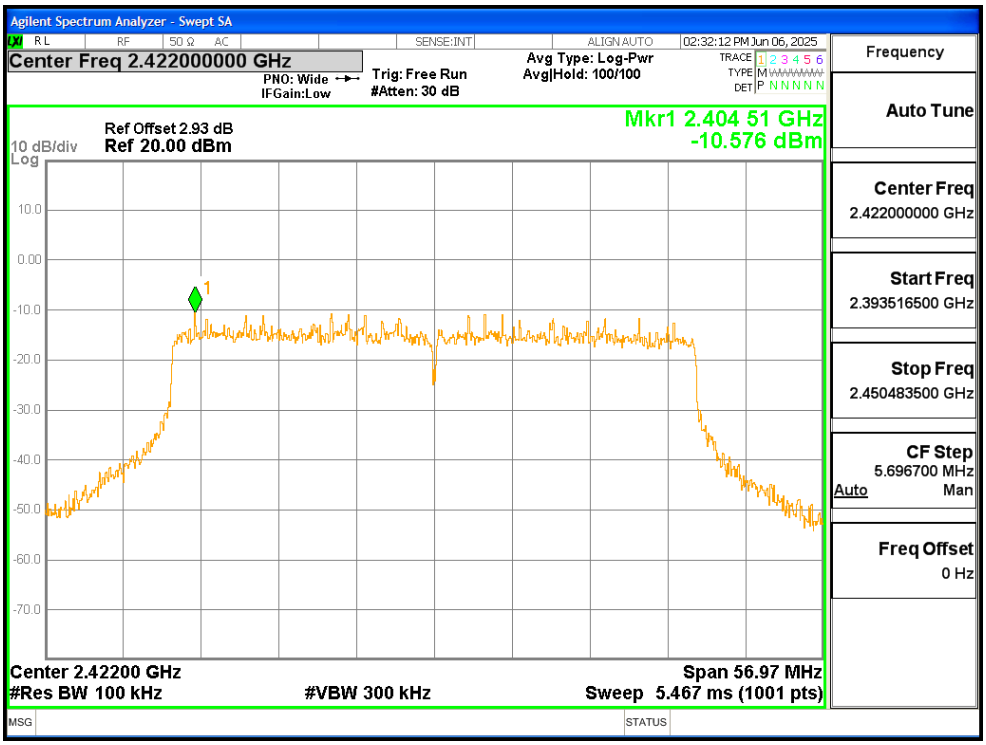
PSD NVNT ax20 2462MHz Ant1




PSD NVNT ax40 2422MHz Ant1

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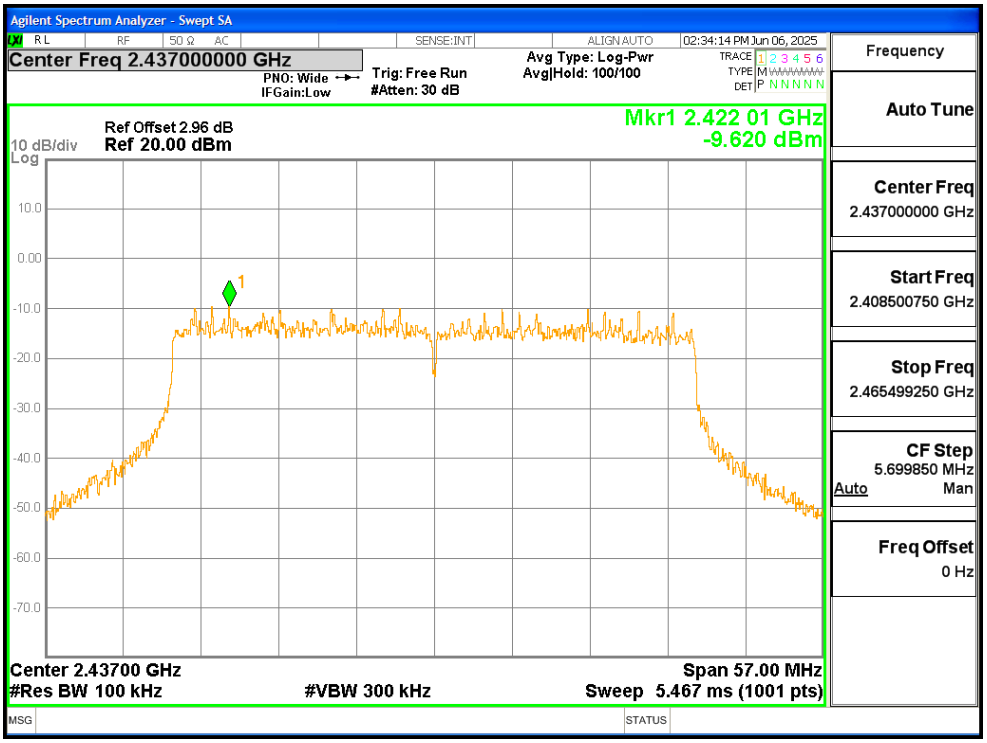
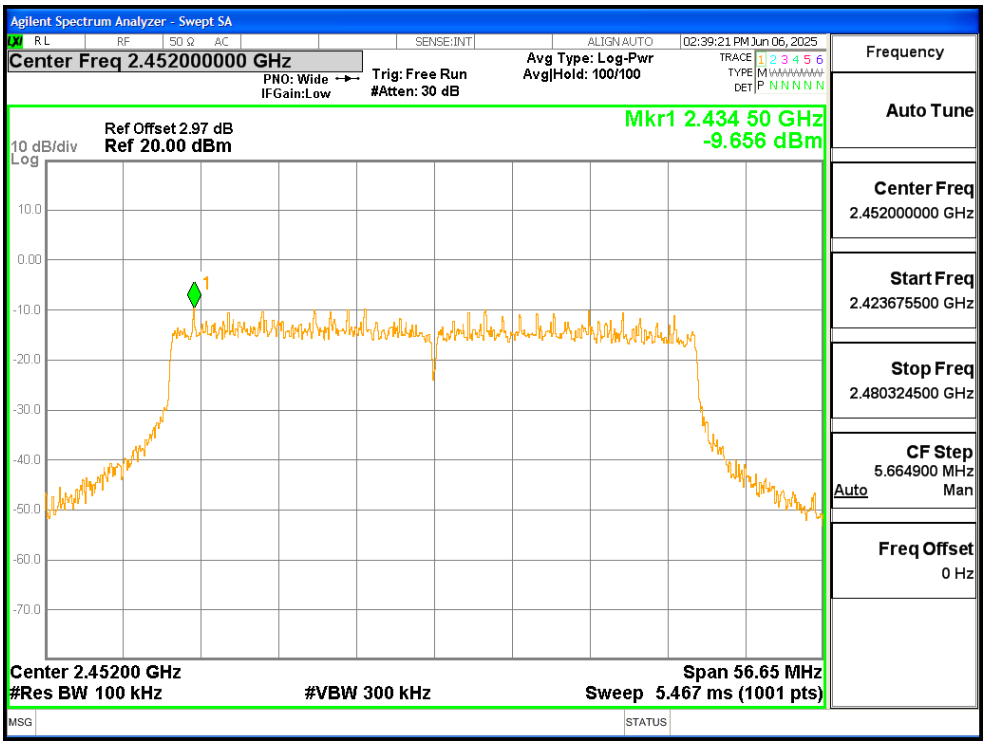
PSD NVNT ax40 2437MHz Ant1




PSD NVNT ax40 2452MHz Ant1

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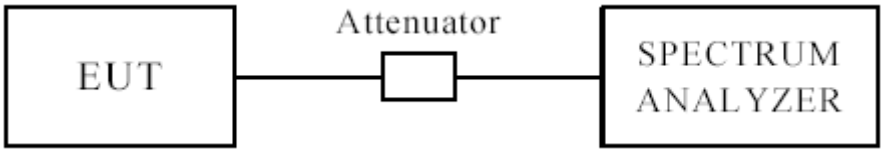
# 10 Out of Band Measurement

## 10.1 Test Setup for band edge




**The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup**

## 10.2 Limits of Out of Band Emissions Measurement

1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

## 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100, VBW=300 kHz. A conducted measurement used

## 10.4 Test Result

Please see next pages

Note: 1. for band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.
2. Two antennas were tested and only the worst cased was recorded in the test report. ANT0 was the worst case.

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| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | b | 2412 | Ant1 | -46.94 | -20 | Pass |
| | | 2462 | | -48.22 | -20 | Pass |
| | g | 2412 | | -27.28 | -20 | Pass |
| | | 2462 | | -43.69 | -20 | Pass |
| | n20 | 2412 | | -27.59 | -20 | Pass |
| | | 2462 | | -44.21 | -20 | Pass |
| | n40 | 2422 | | -29.88 | -20 | Pass |
| | | 2452 | | -40.45 | -20 | Pass |
| | ax20 | 2412 | | -29.85 | -20 | Pass |
| | | 2462 | | -45.16 | -20 | Pass |
| | ax40 | 2422 | | -28.56 | -20 | Pass |
| | | 2452 | | -38.93 | -20 | Pass |

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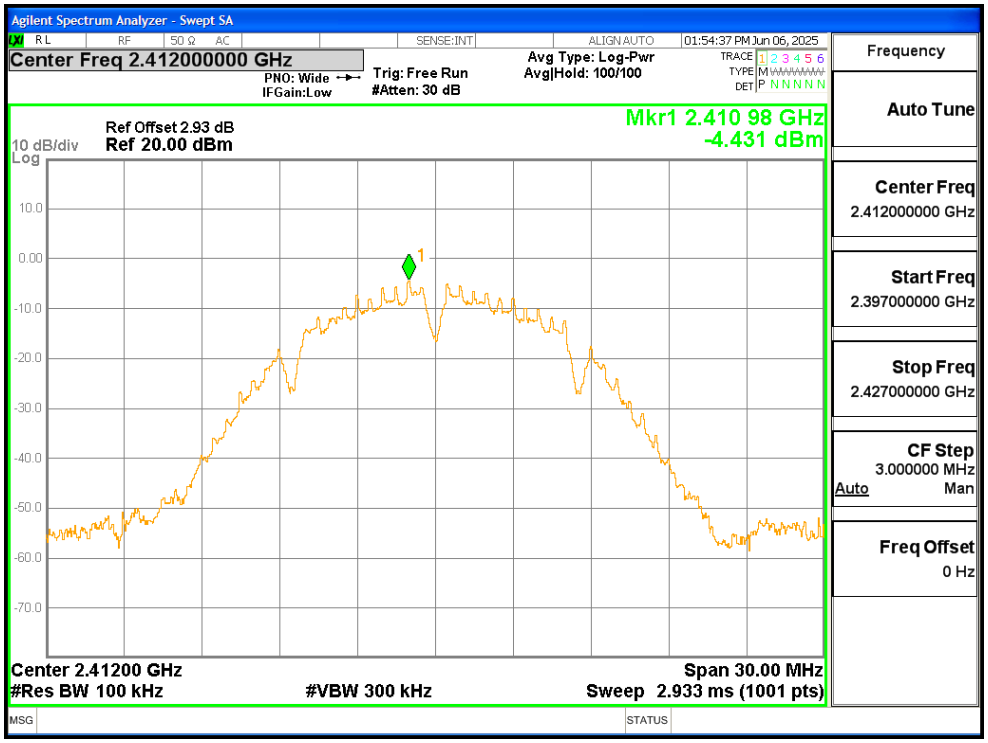
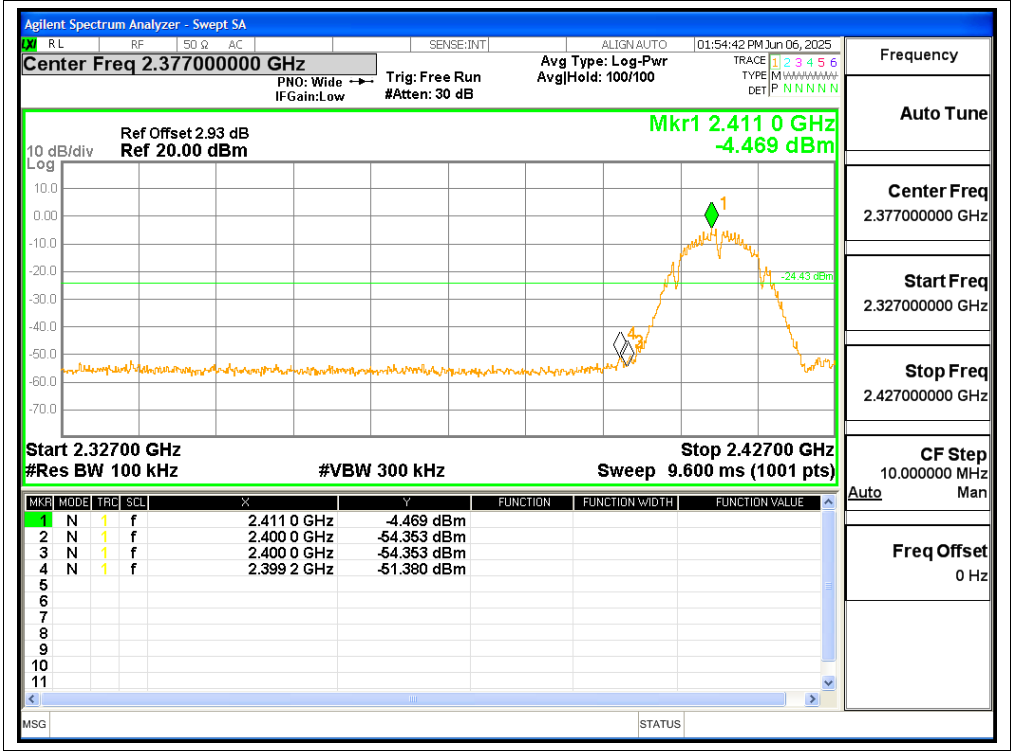
Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref




Band Edge NVNT b 2412MHz Ant1 Emission

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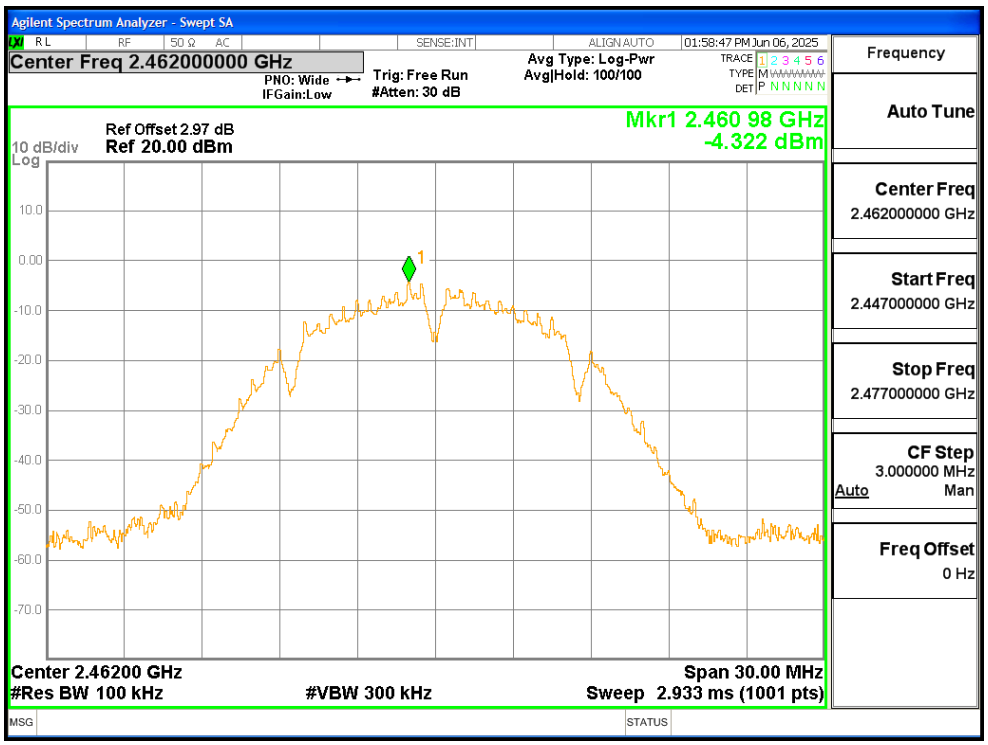
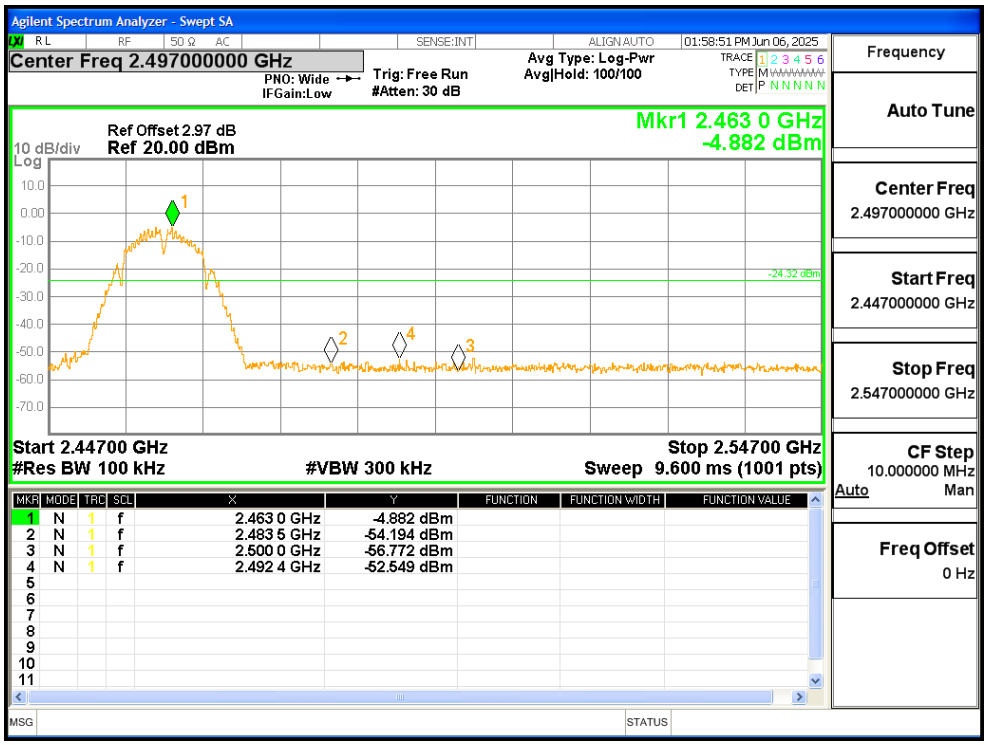
Band Edge NVNT b 2462MHz Ant1 Ref




Band Edge NVNT b 2462MHz Ant1 Emission

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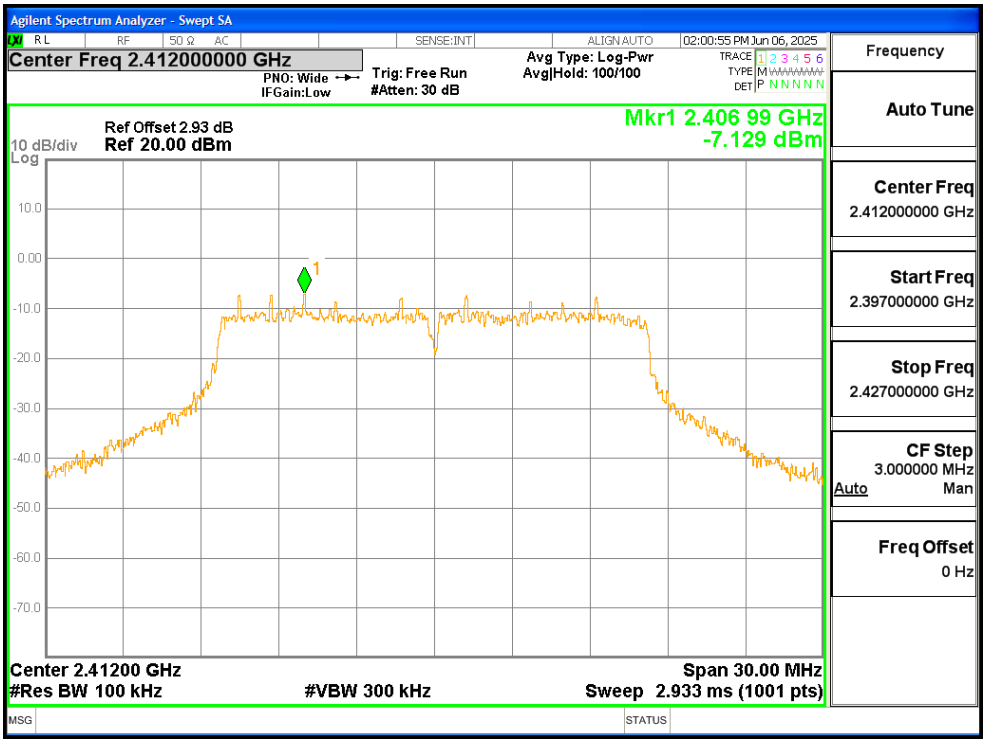
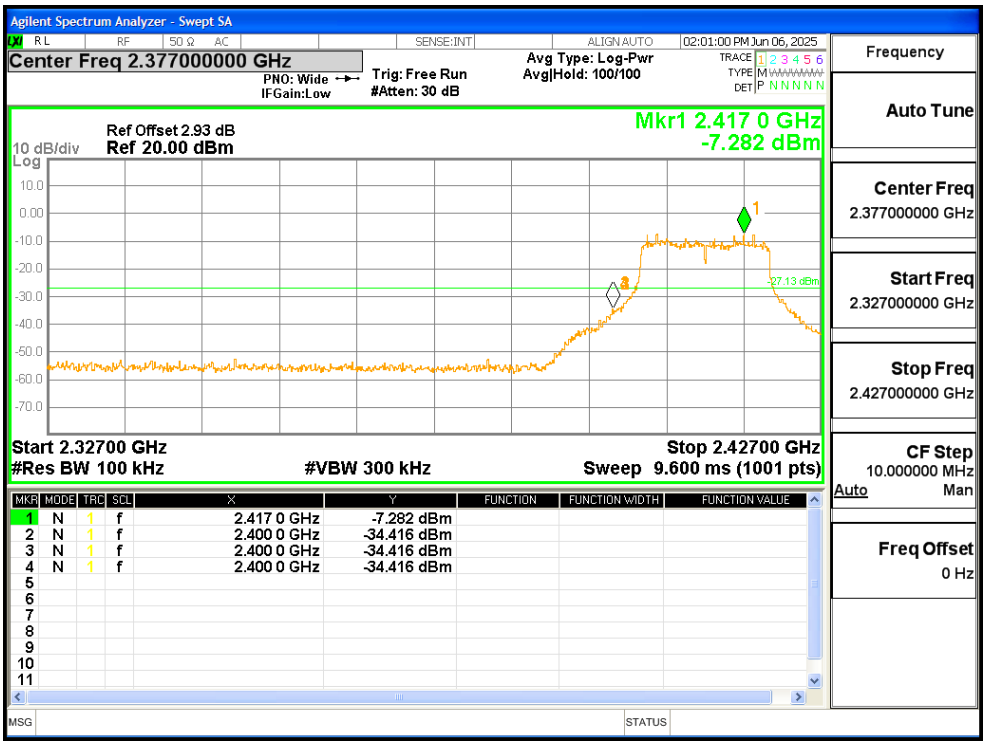
Band Edge NVNT g 2412MHz Ant1 Ref




Band Edge NVNT g 2412MHz Ant1 Emission

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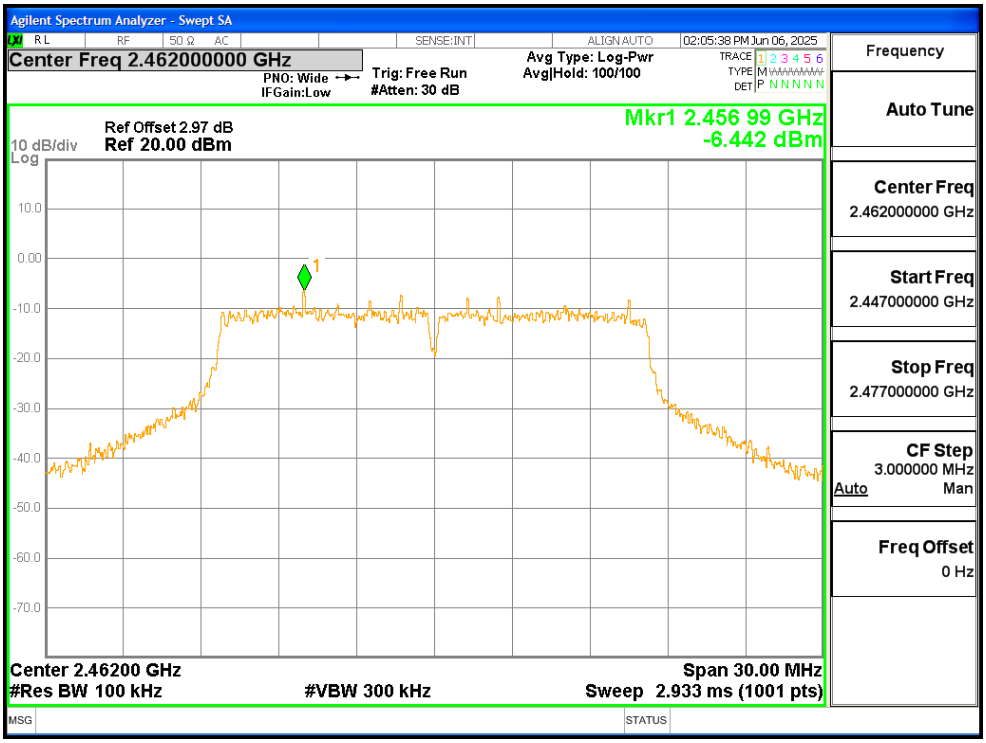
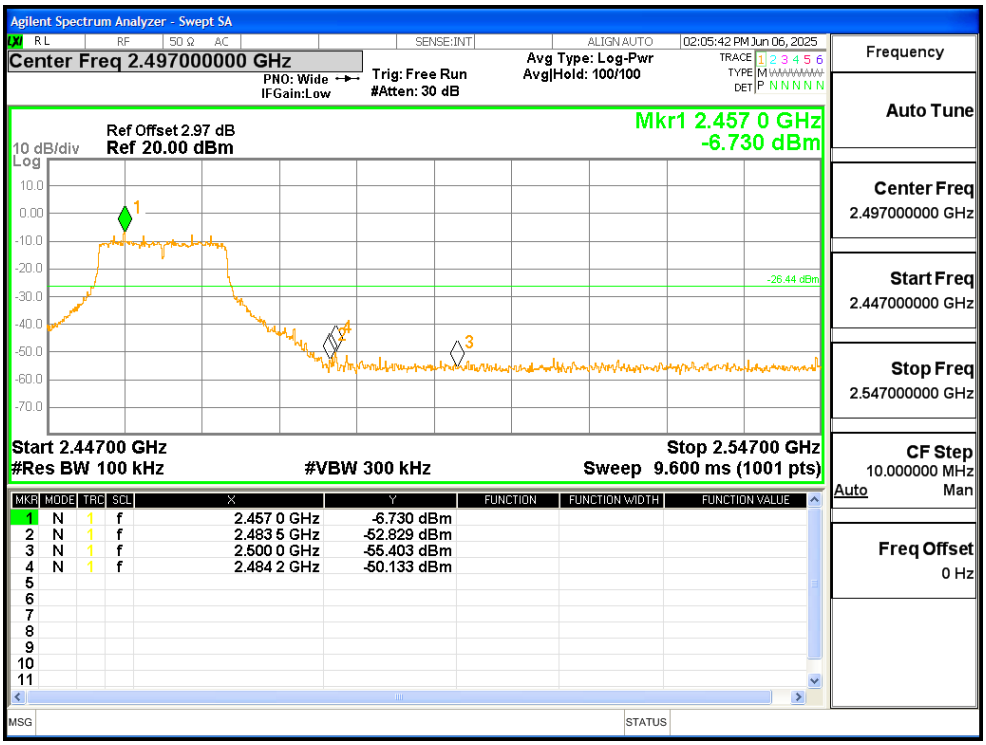



Band Edge NVNT g 2462MHz Ant1 Emission

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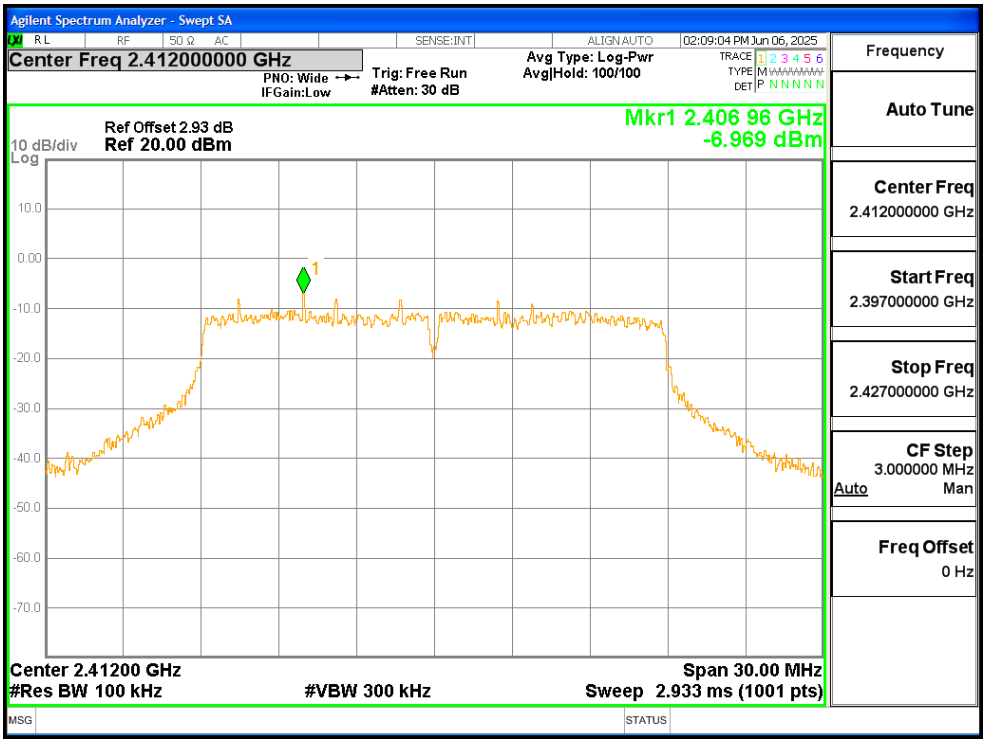
Band Edge NVNT n20 2412MHz Ant1 Ref

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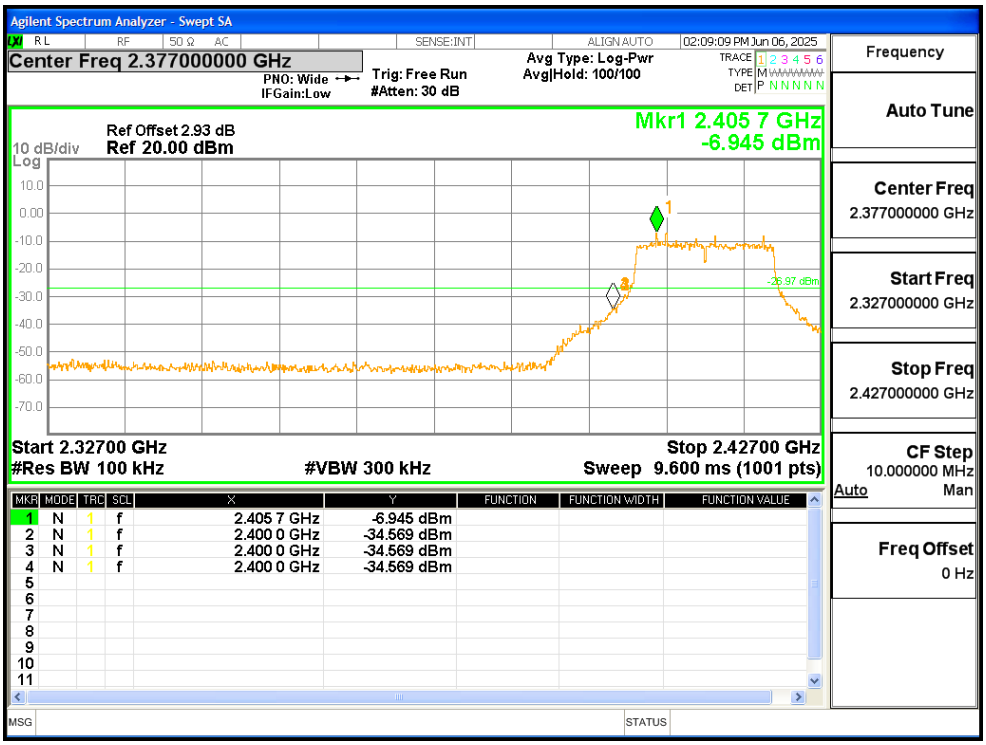


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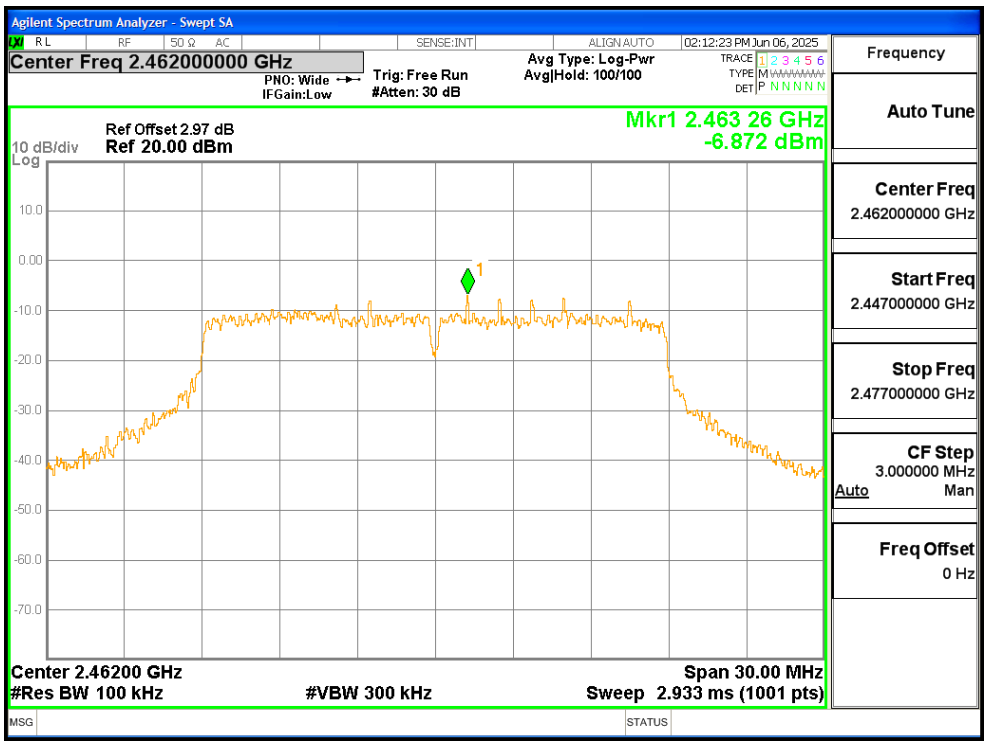


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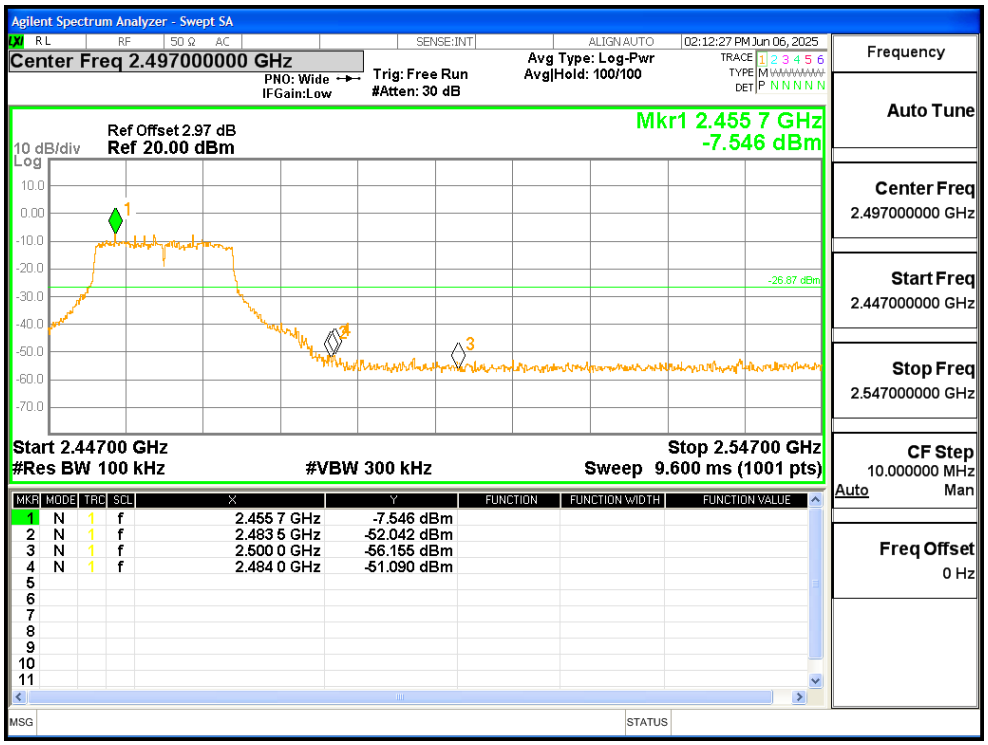


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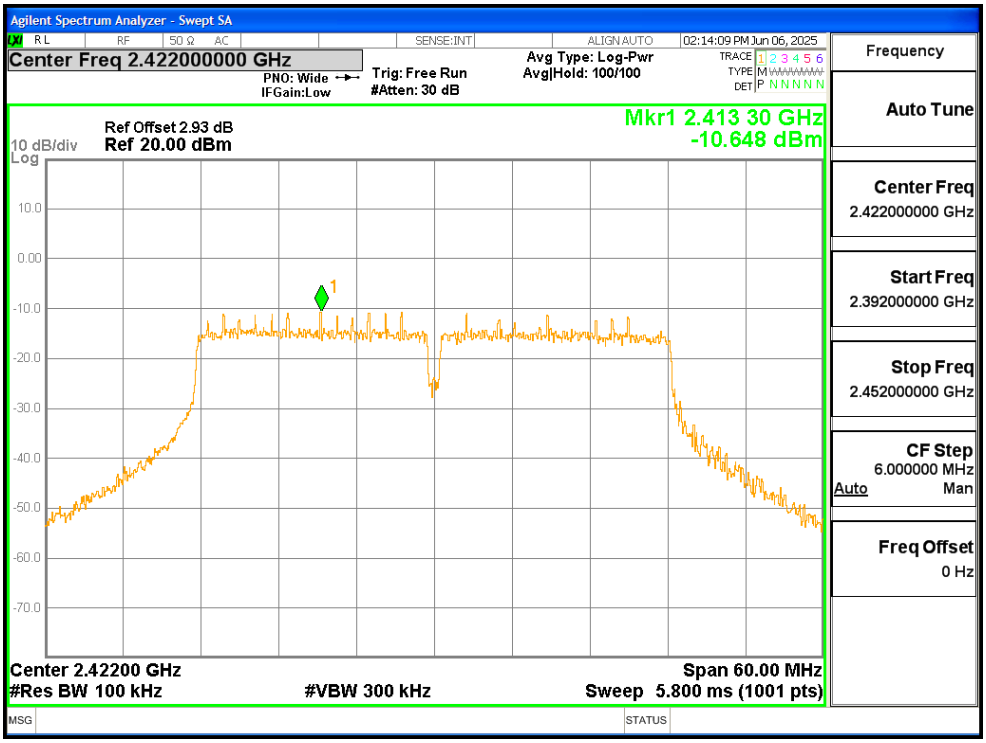
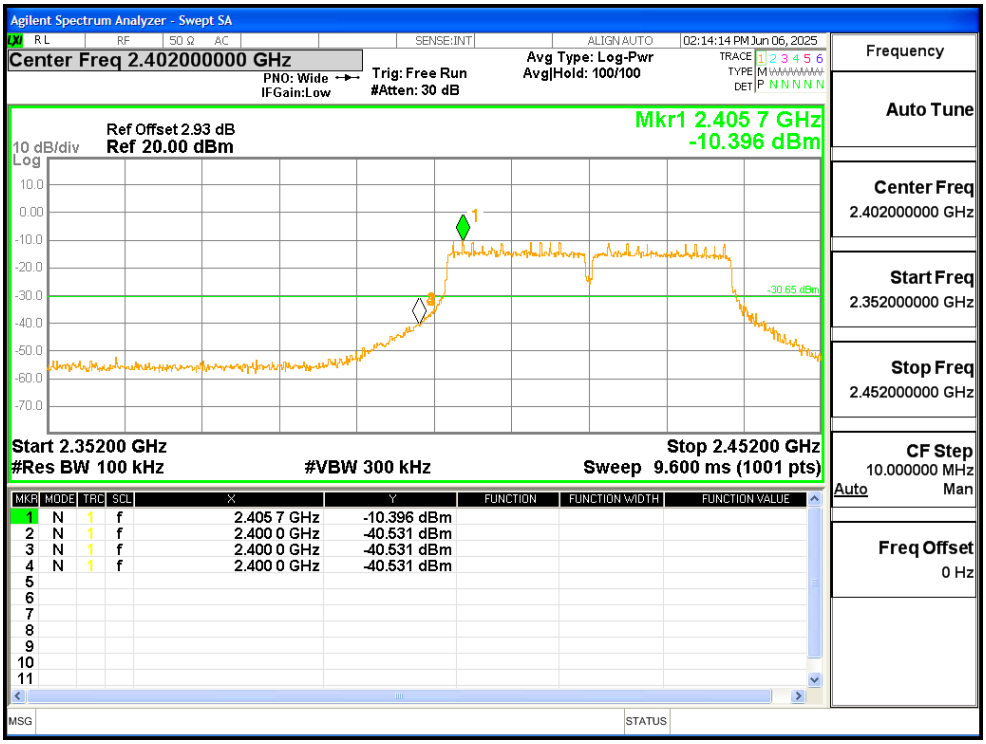
Band Edge NVNT n40 2422MHz Ant1 Ref




Band Edge NVNT n40 2422MHz Ant1 Emission

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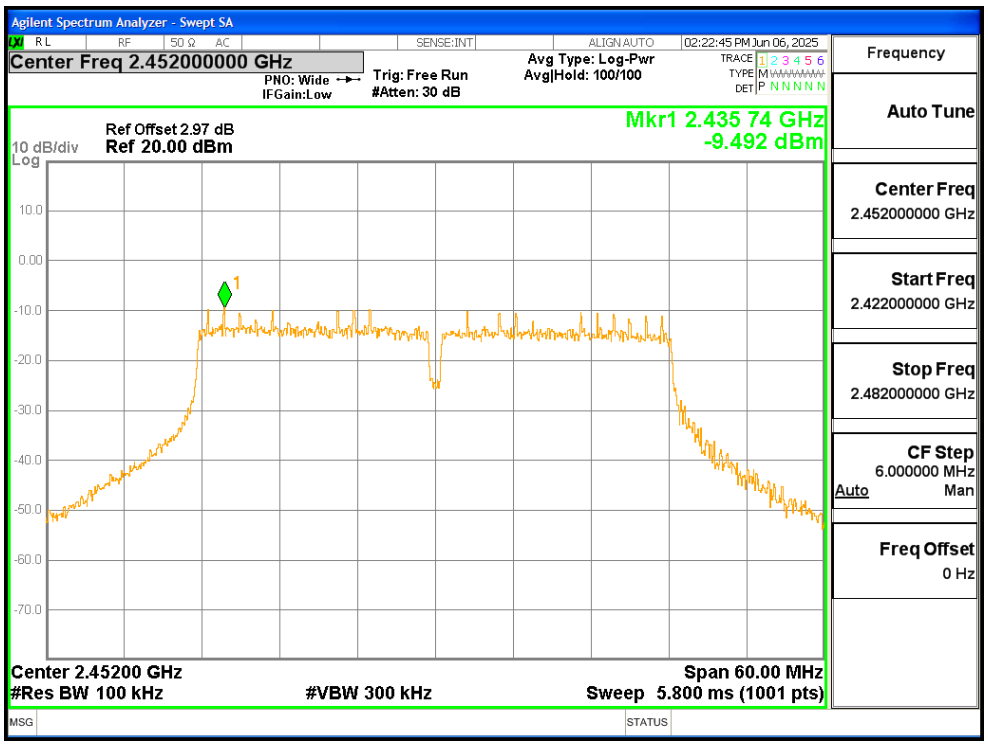
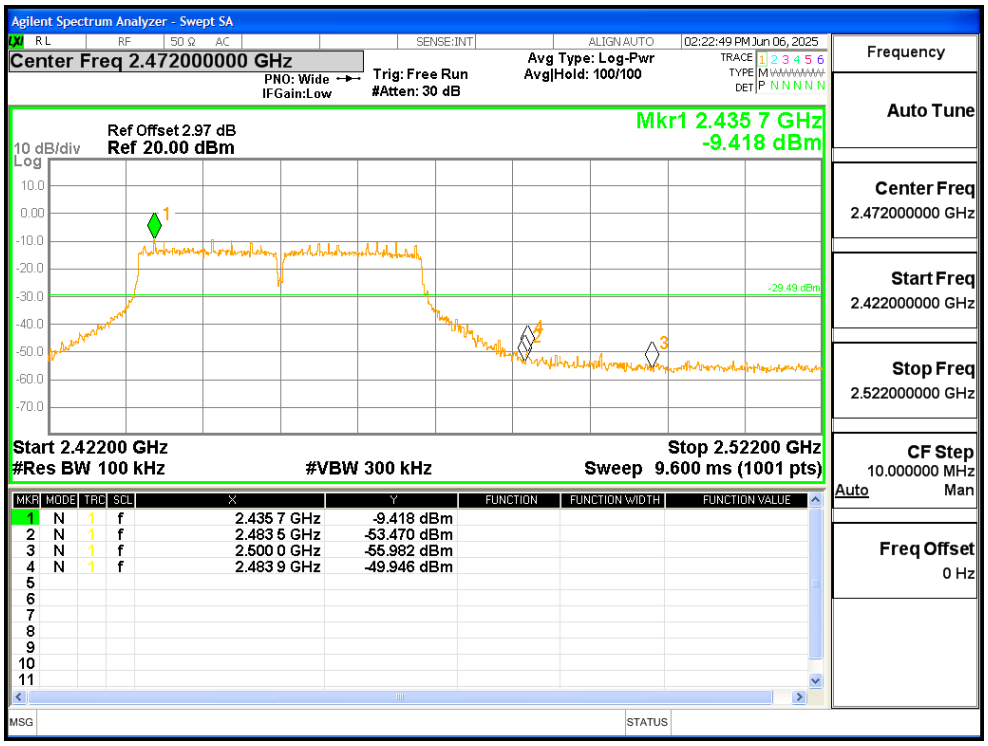
Band Edge NVNT n40 2452MHz Ant1 Ref




Band Edge NVNT n40 2452MHz Ant1 Emission

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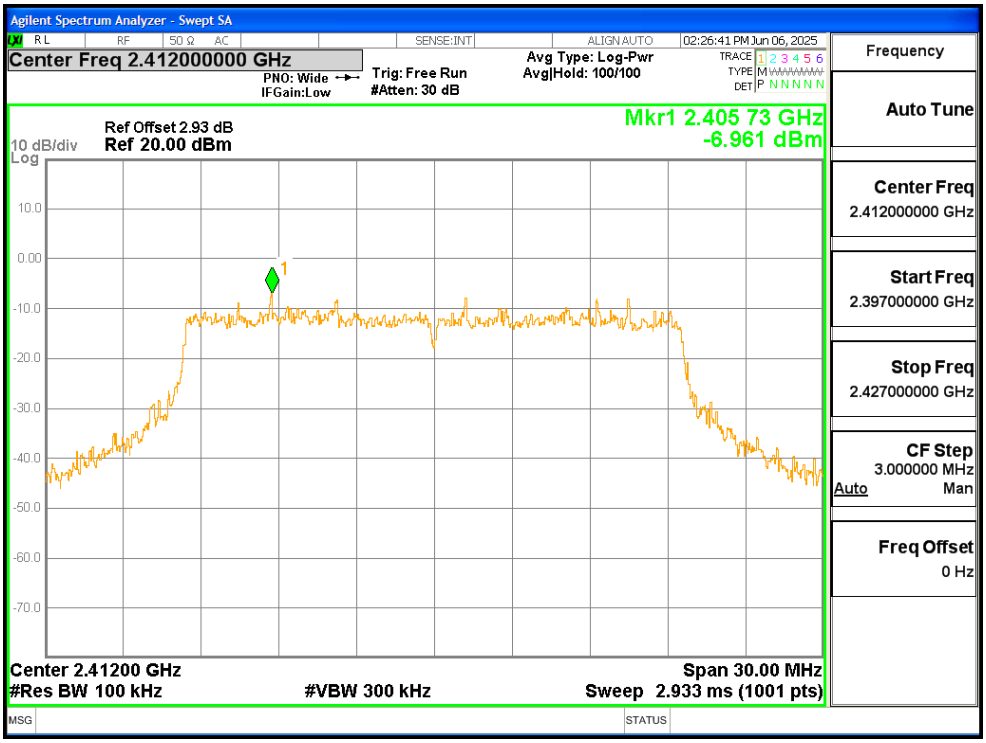
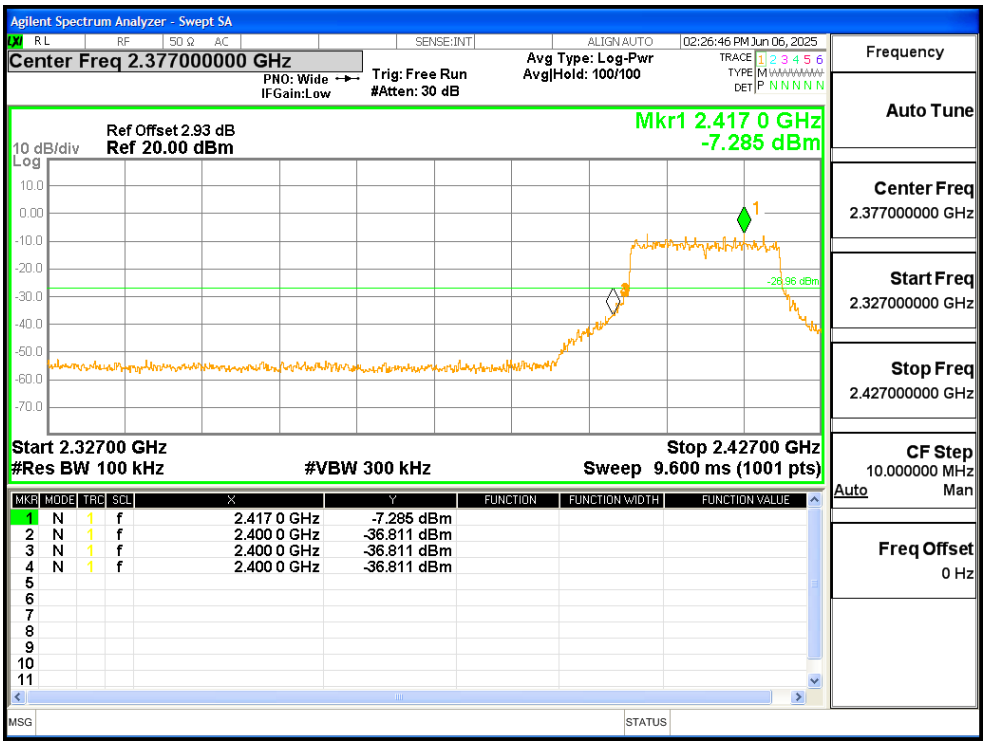
Band Edge NVNT ax20 2412MHz Ant1 Ref




Band Edge NVNT ax20 2412MHz Ant1 Emission

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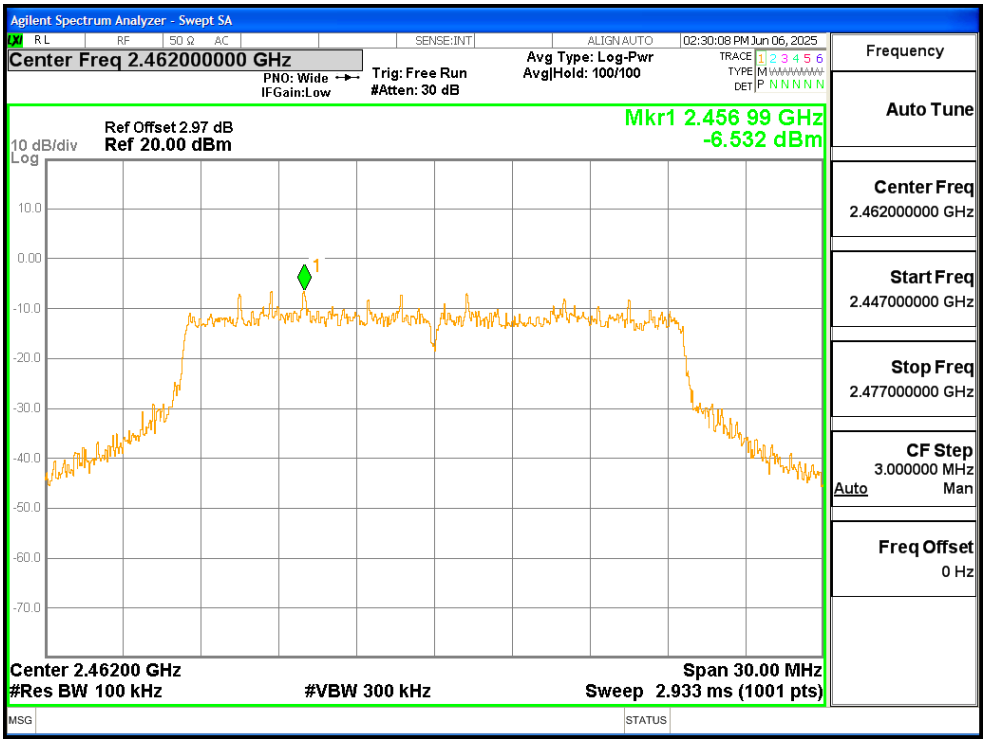


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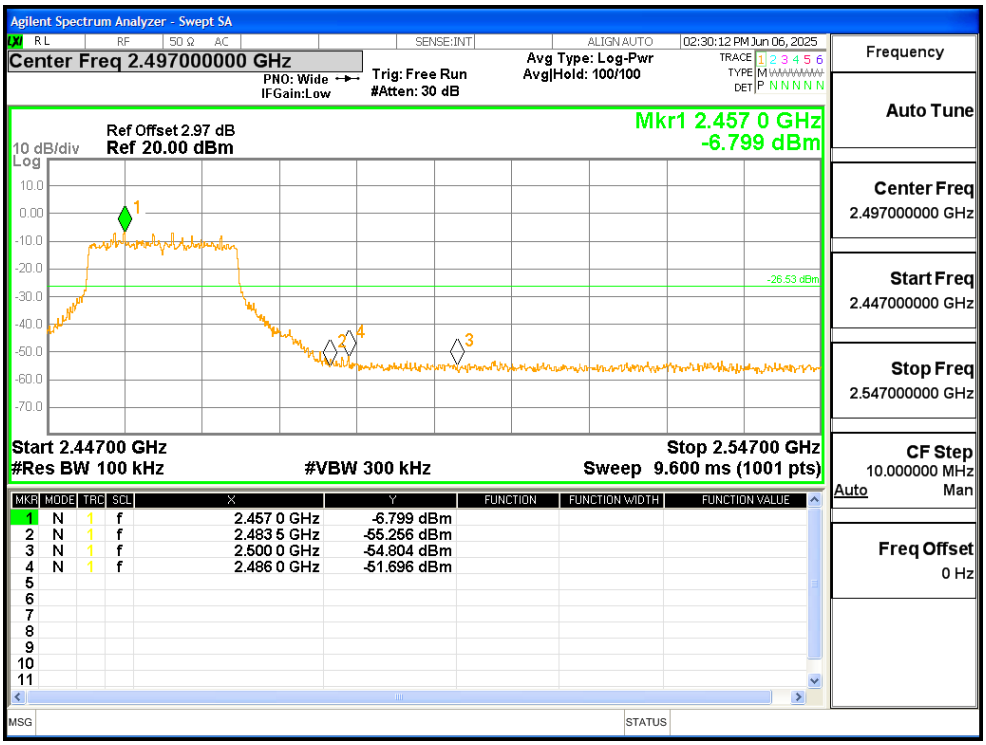


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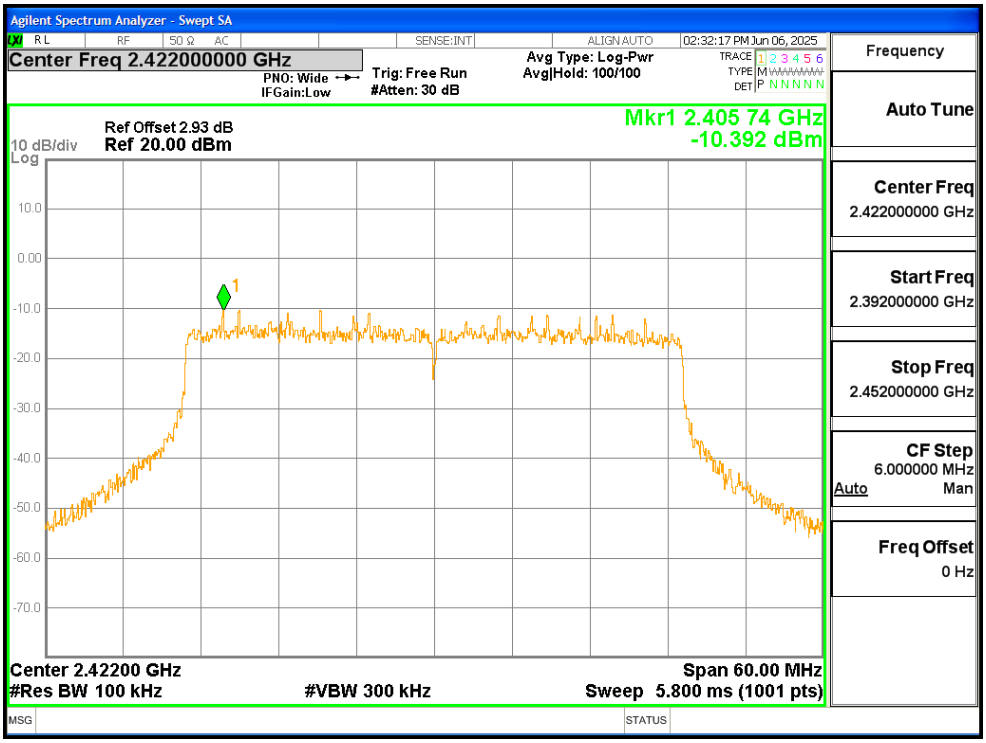
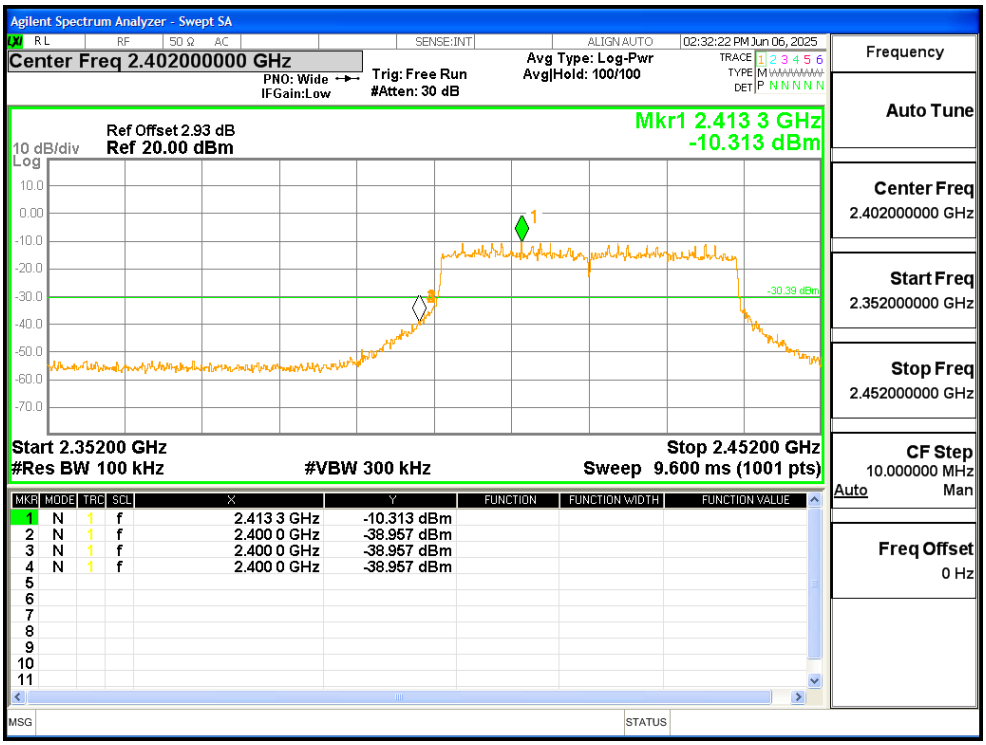
Band Edge NVNT ax40 2422MHz Ant1 Ref




Band Edge NVNT ax40 2422MHz Ant1 Emission

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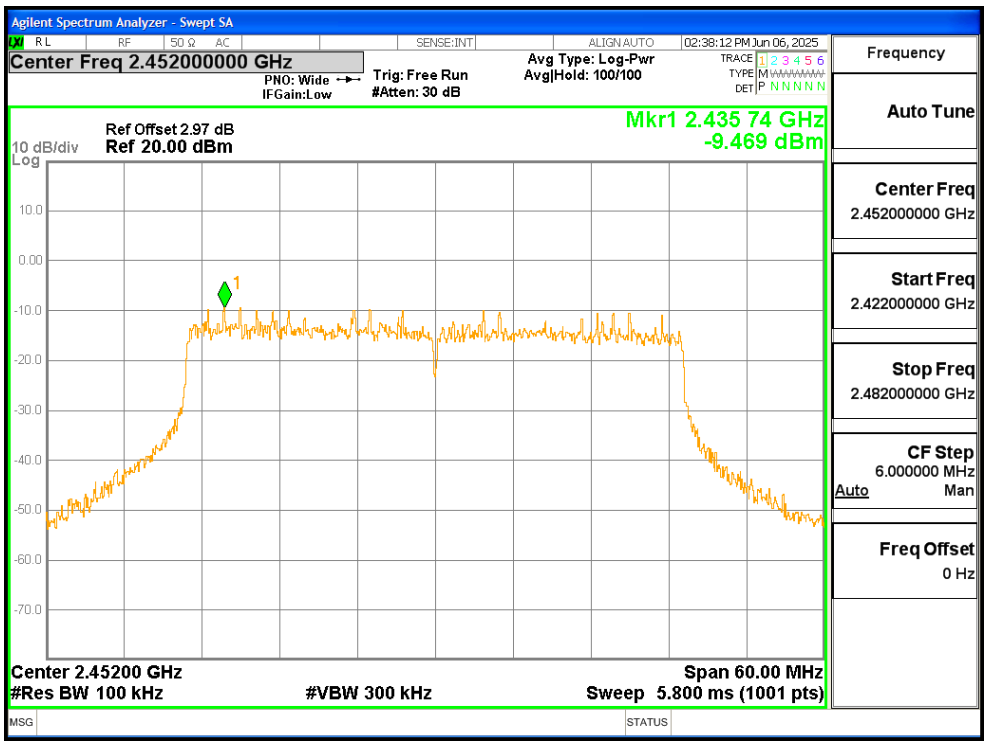
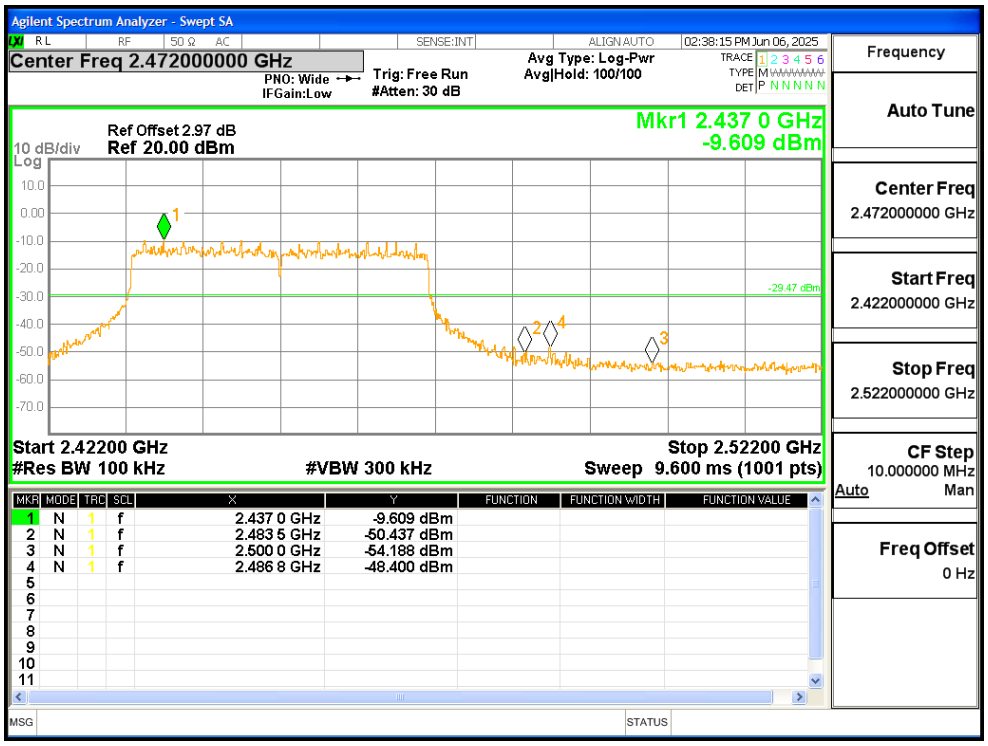
Band Edge NVNT ax40 2452MHz Ant1 Ref




Band Edge NVNT ax40 2452MHz Ant1 Emission

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# Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | b | 2412 | Ant1 | -28.44 | -20 | Pass |
| | | 2437 | | -29.35 | -20 | Pass |
| | | 2462 | | -29.07 | -20 | Pass |
| | g | 2412 | | -27.03 | -20 | Pass |
| | | 2437 | | -26.13 | -20 | Pass |
| | | 2462 | | -27.43 | -20 | Pass |
| | n20 | 2412 | | -26.6 | -20 | Pass |
| | | 2437 | | -26.99 | -20 | Pass |
| | | 2462 | | -27.33 | -20 | Pass |
| | n40 | 2422 | | -23.97 | -20 | Pass |
| | | 2437 | | -22.97 | -20 | Pass |
| | | 2452 | | -24.12 | -20 | Pass |
| | ax20 | 2412 | | -26.47 | -20 | Pass |
| | | 2437 | | -27.67 | -20 | Pass |
| | | 2462 | | -26.36 | -20 | Pass |
| | ax40 | 2422 | | -24.09 | -20 | Pass |
| | | 2437 | | -24.43 | -20 | Pass |
| | | 2452 | | -24.75 | -20 | Pass |

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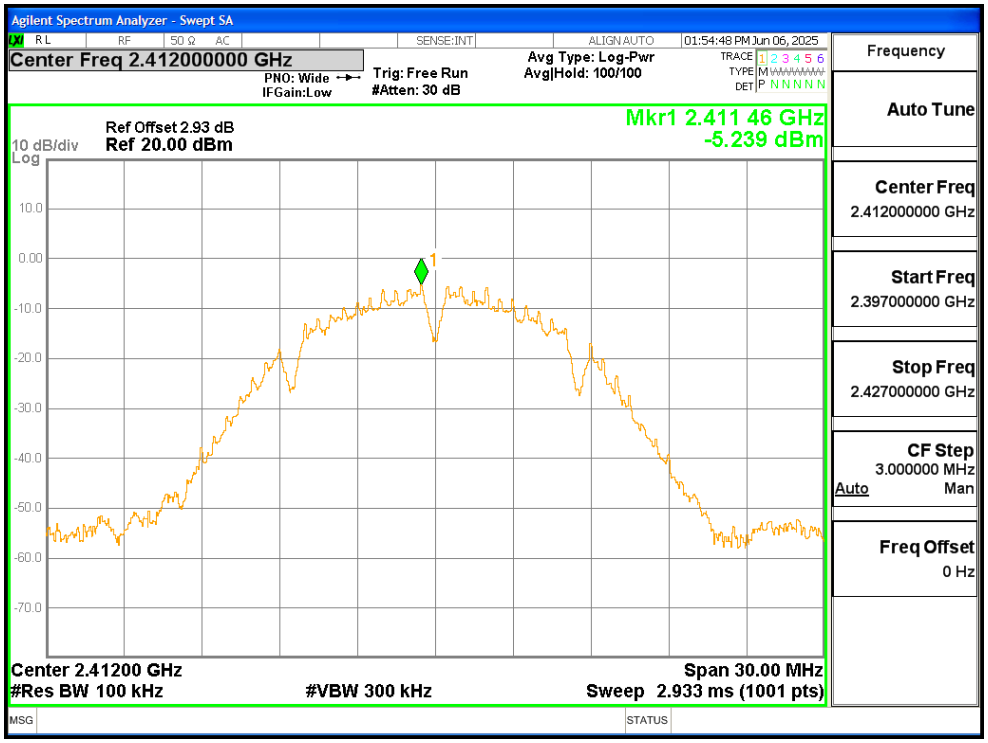
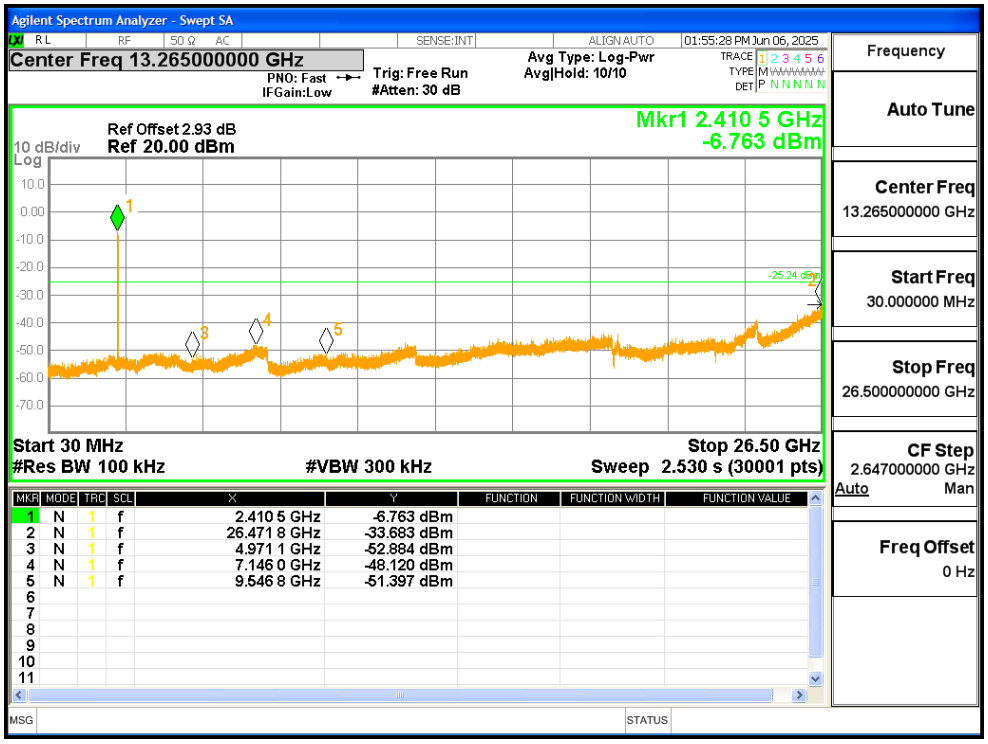
Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref




Tx. Spurious NVNT b 2412MHz Ant1 Emission

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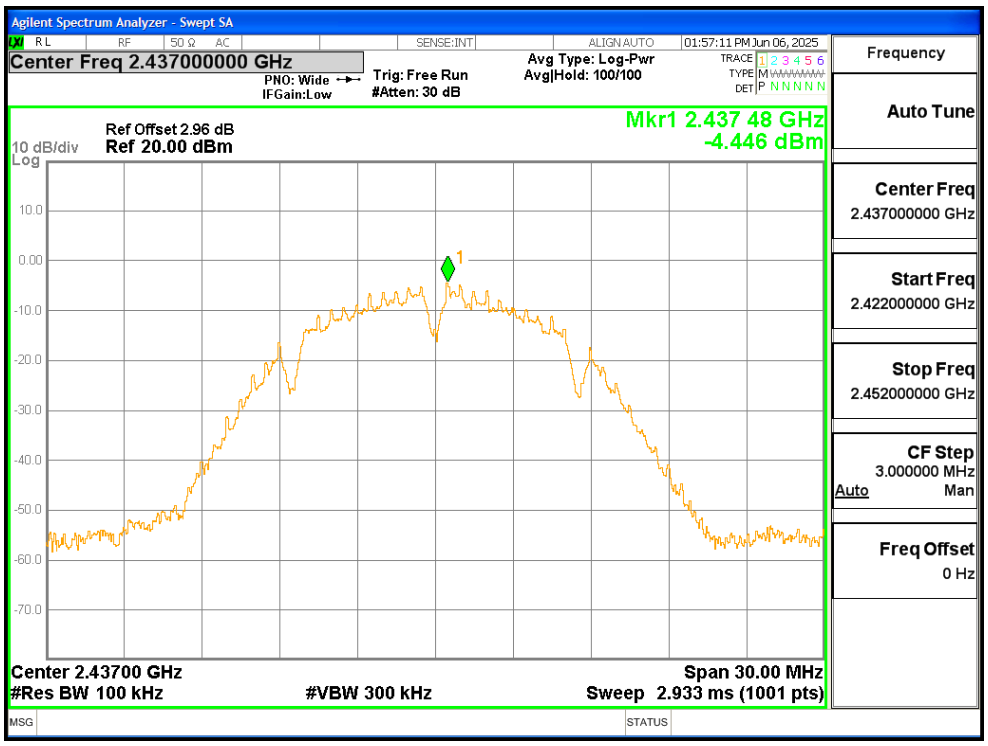
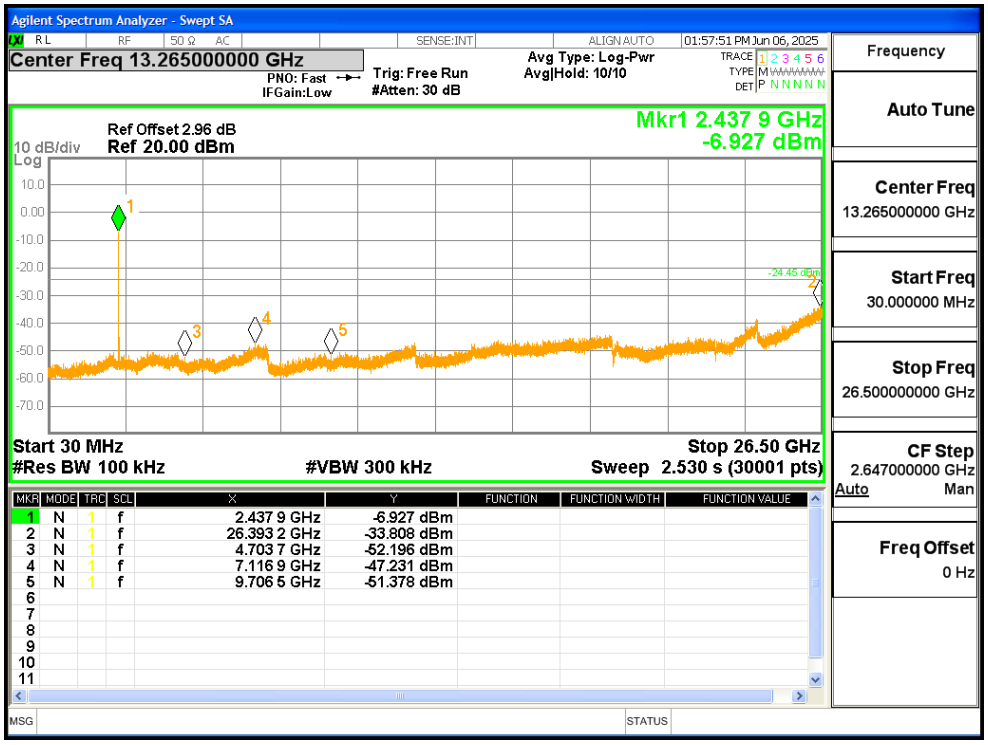
Tx. Spurious NVNT b 2437MHz Ant1 Ref




Tx. Spurious NVNT b 2437MHz Ant1 Emission

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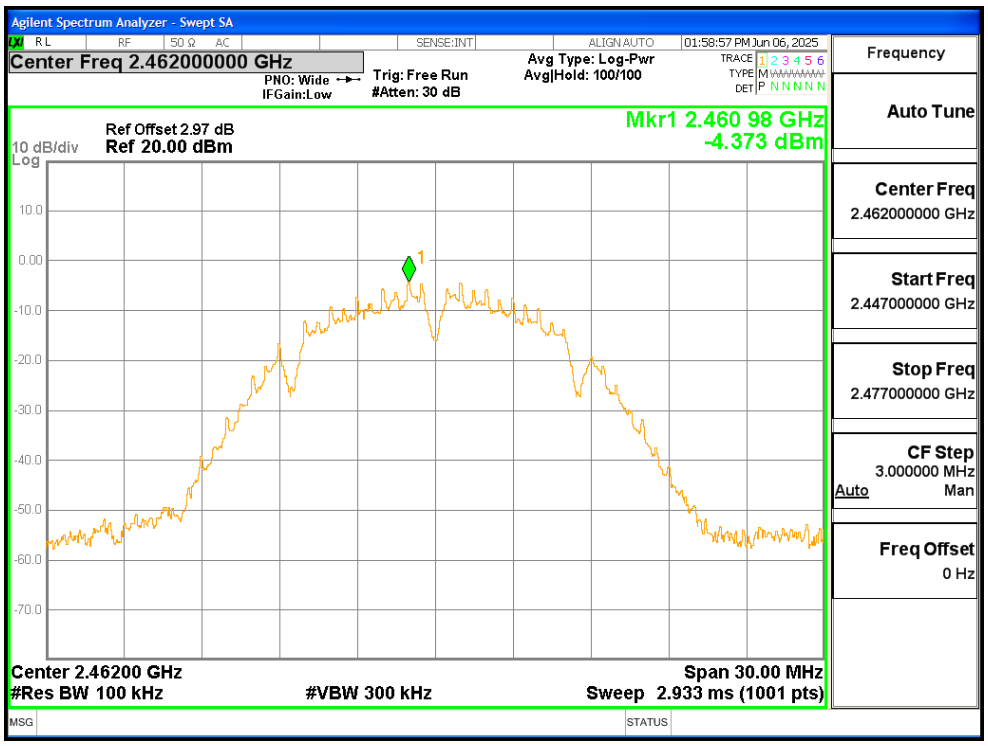
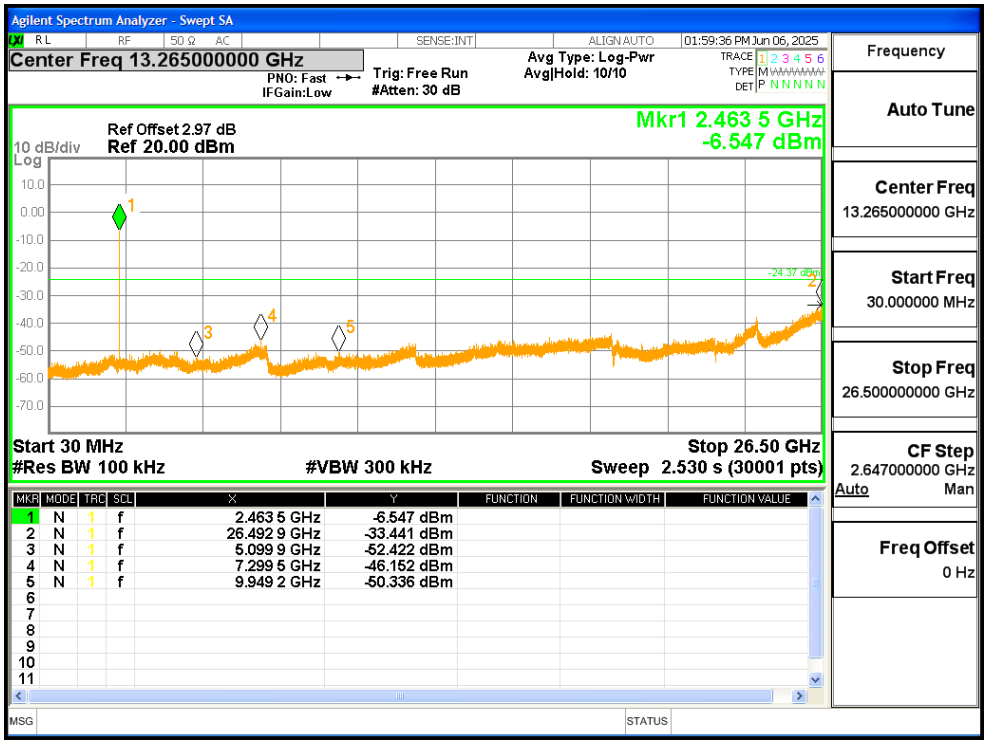
Tx. Spurious NVNT b 2462MHz Ant1 Ref




Tx. Spurious NVNT b 2462MHz Ant1 Emission

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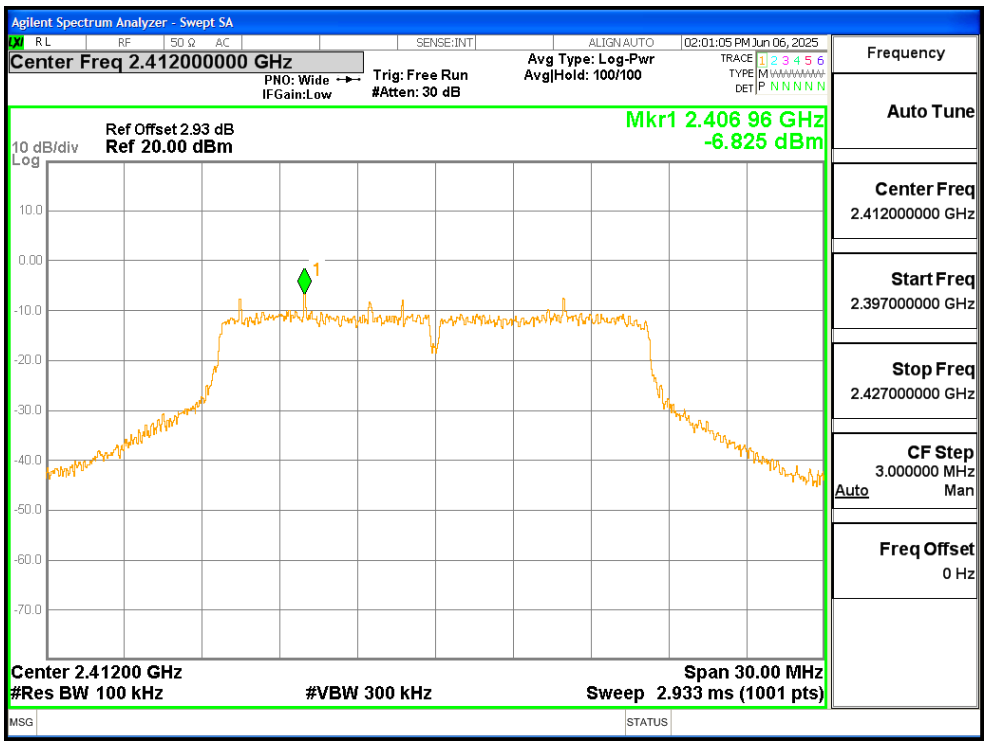
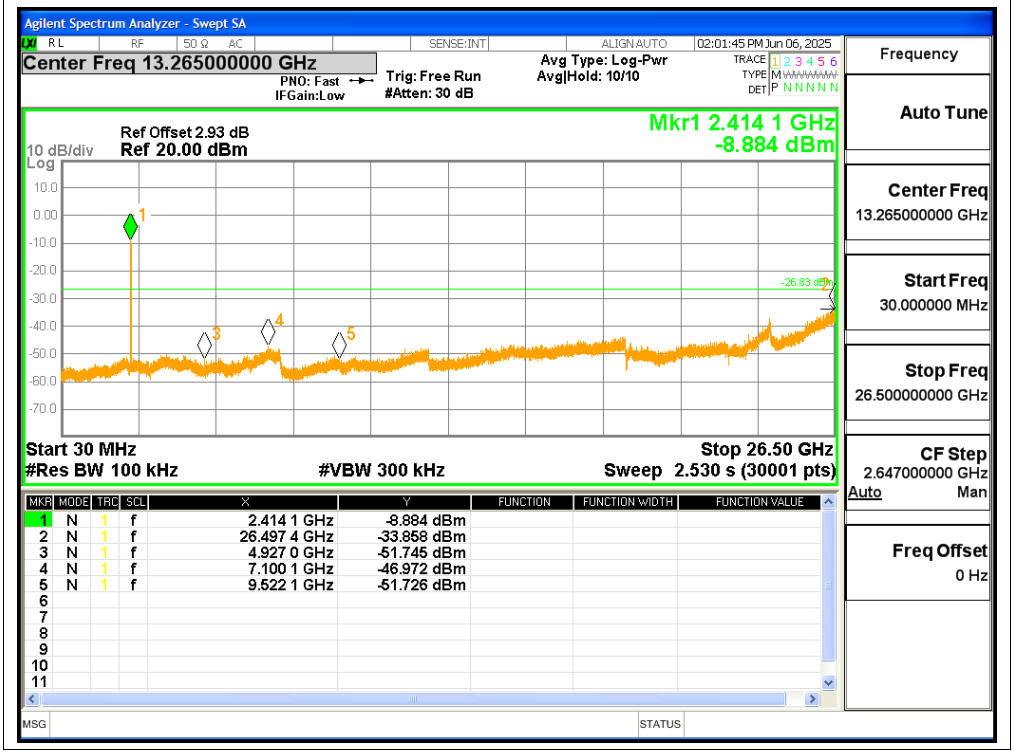
Tx. Spurious NVNT g 2412MHz Ant1 Ref




Tx. Spurious NVNT g 2412MHz Ant1 Emission

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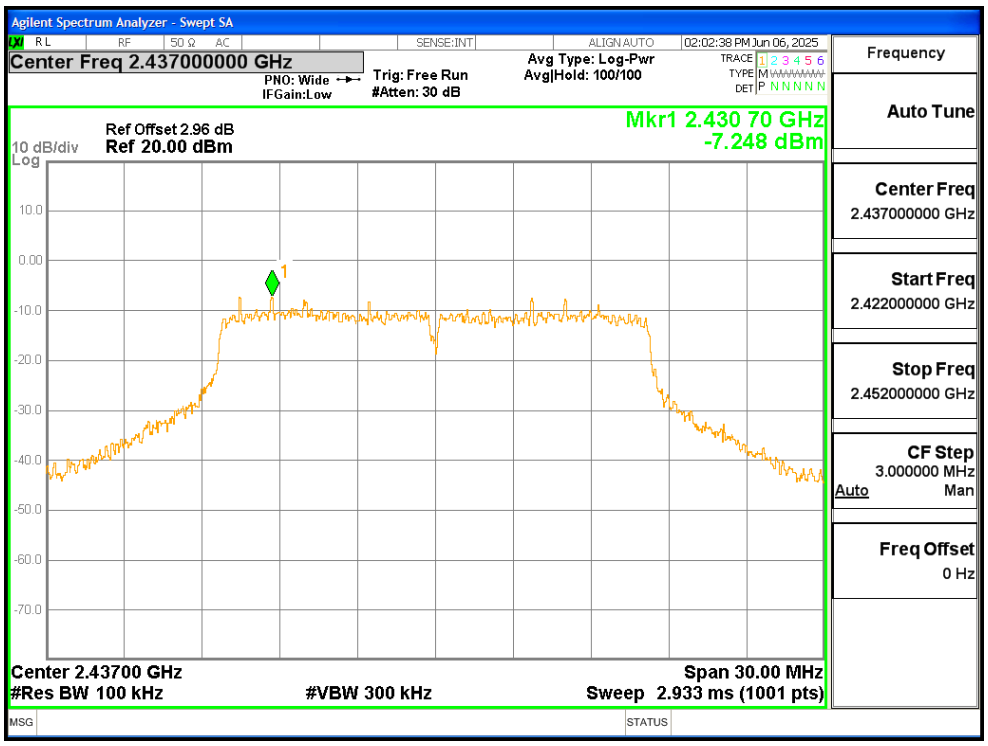
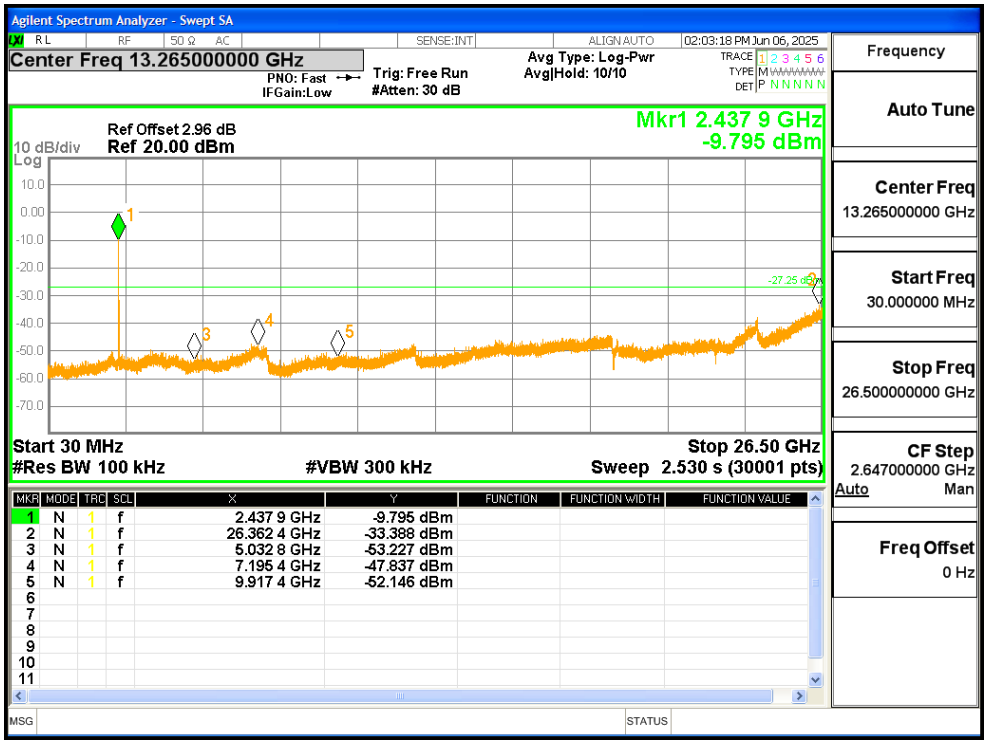
Tx. Spurious NVNT g 2437MHz Ant1 Ref




Tx. Spurious NVNT g 2437MHz Ant1 Emission

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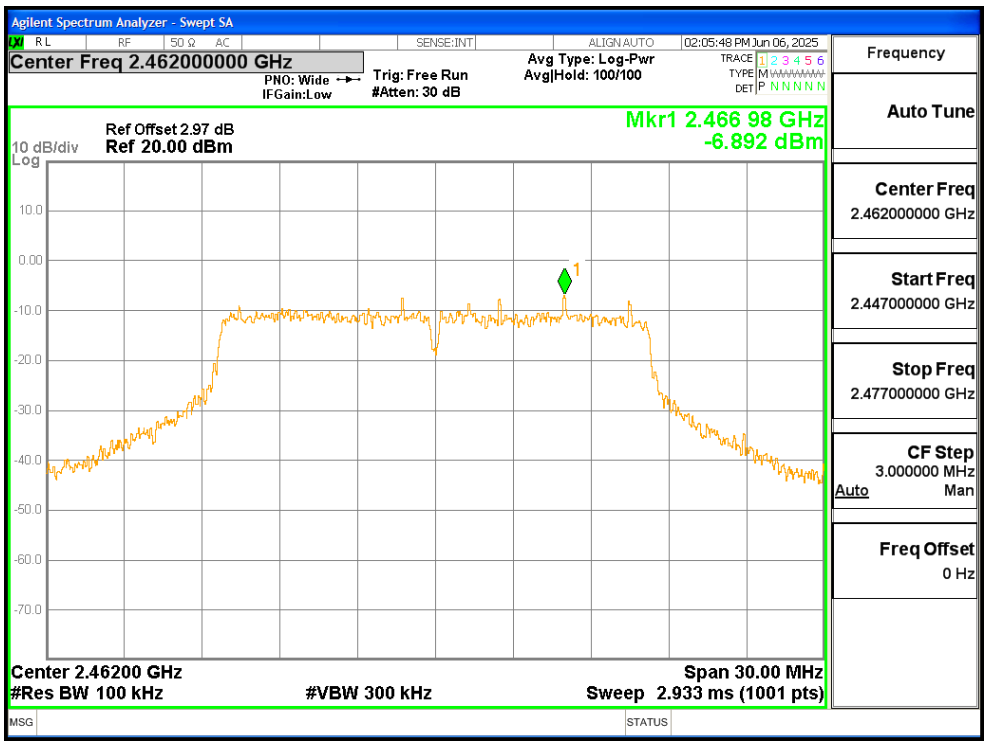
Tx. Spurious NVNT g 2462MHz Ant1 Ref

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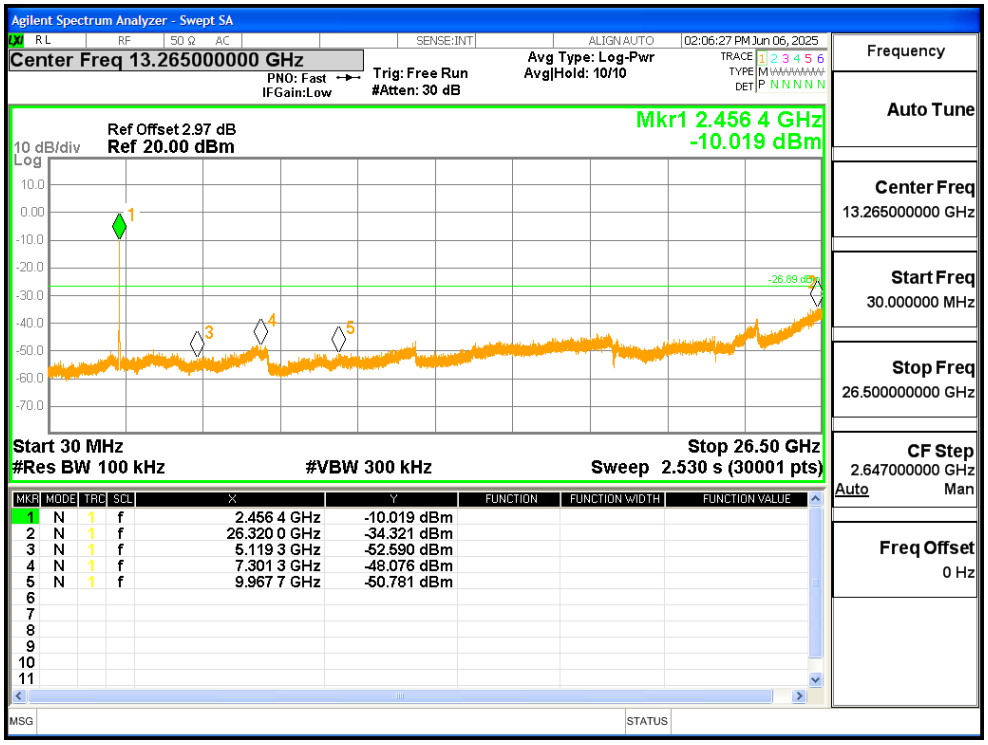


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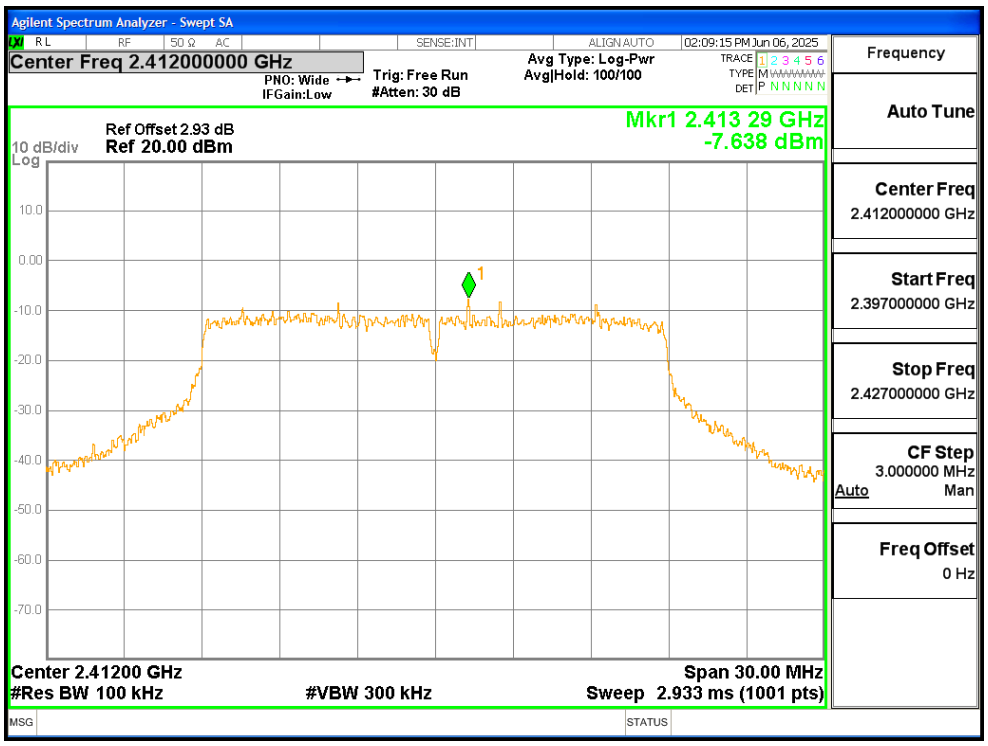
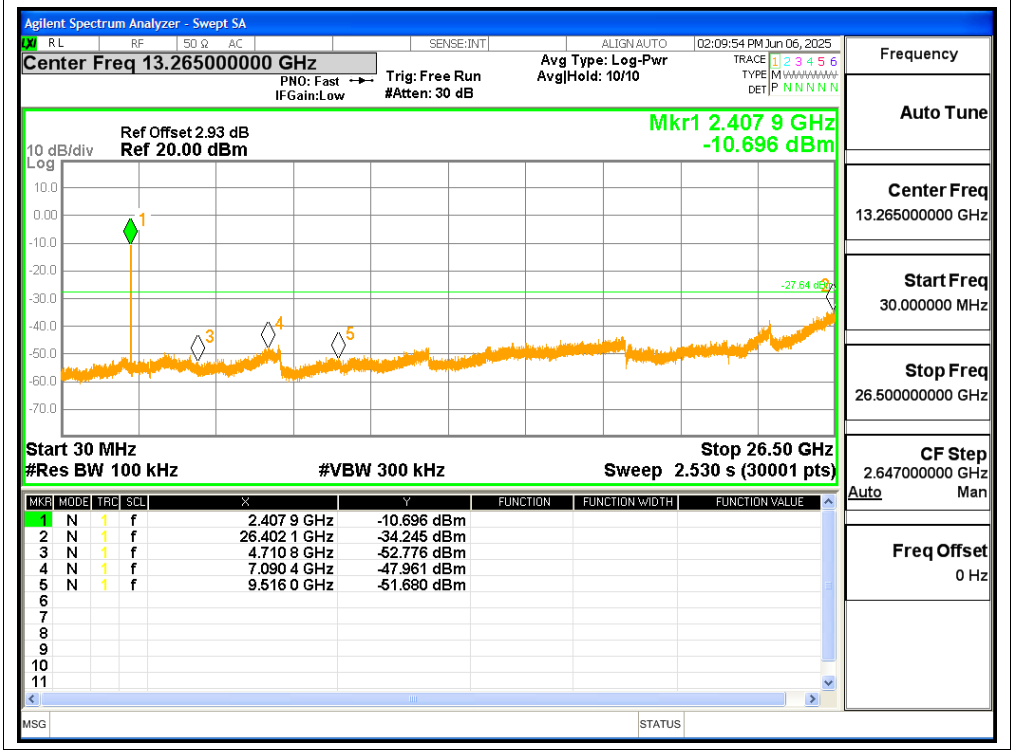
Tx. Spurious NVNT n20 2412MHz Ant1 Ref




Tx. Spurious NVNT n20 2412MHz Ant1 Emission

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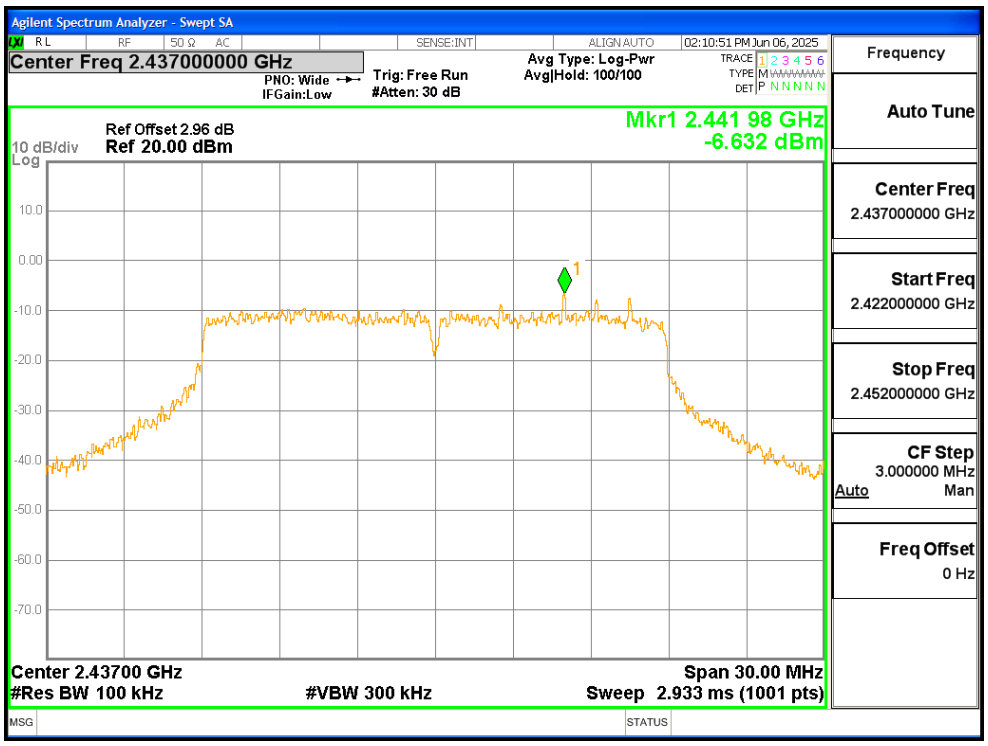
Tx. Spurious NVNT n20 2437MHz Ant1 Ref

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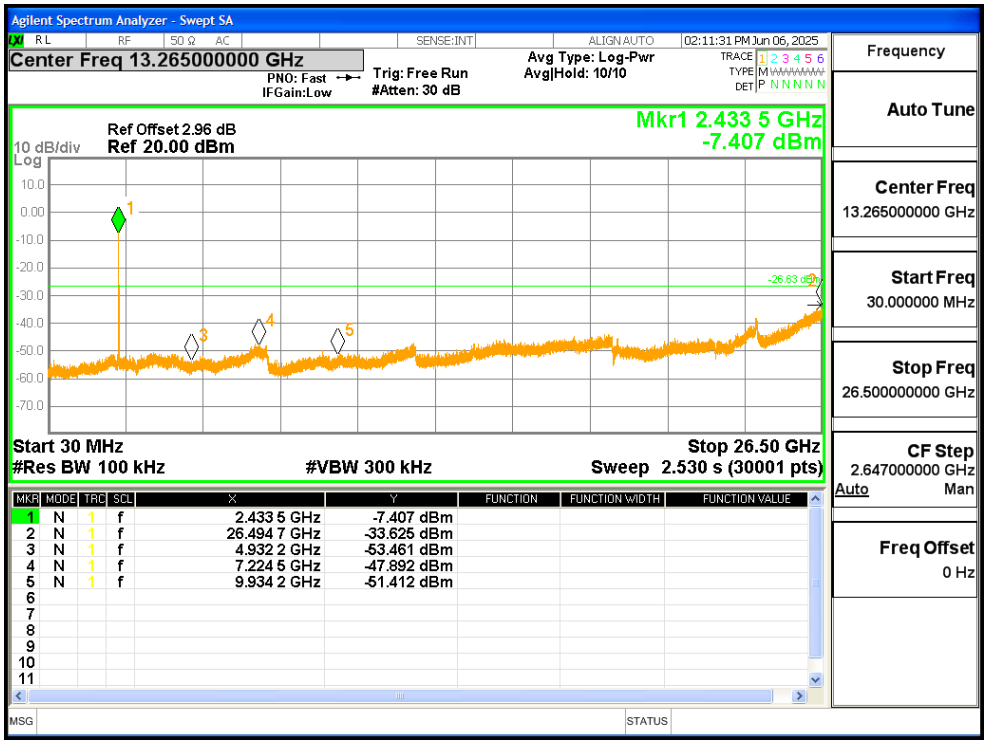


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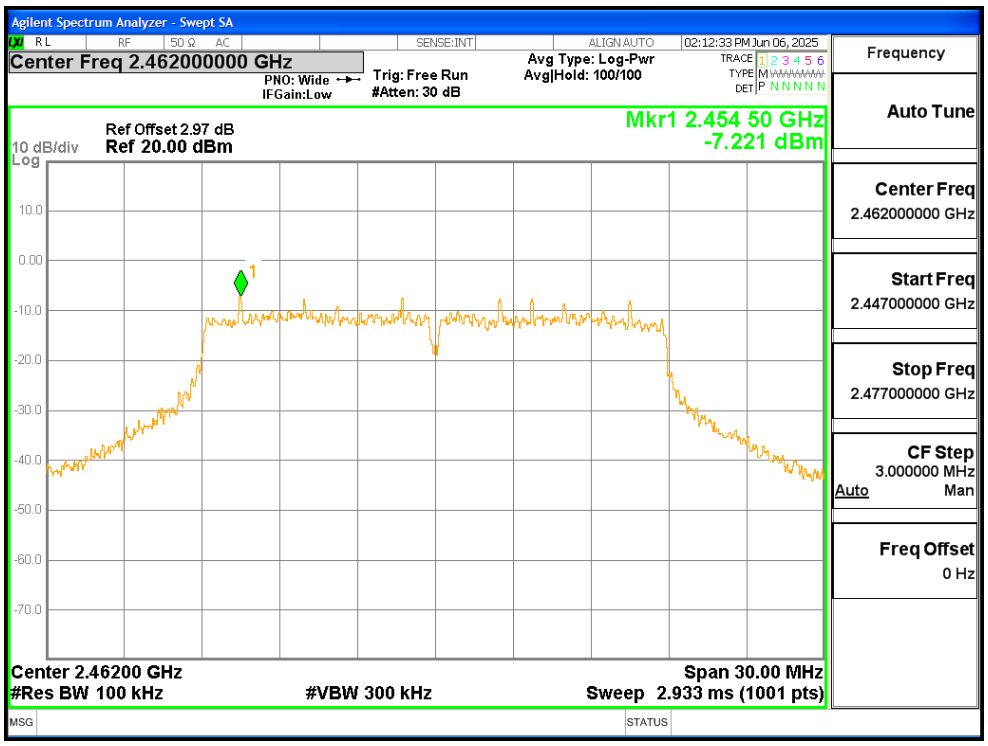
Tx. Spurious NVNT n20 2462MHz Ant1 Ref

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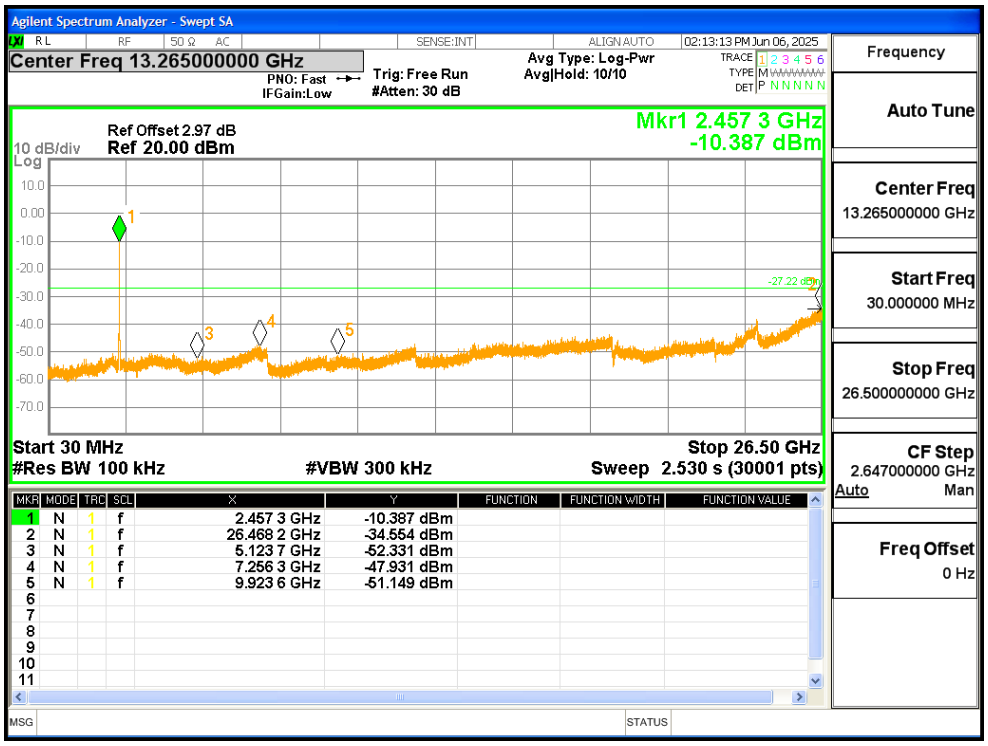


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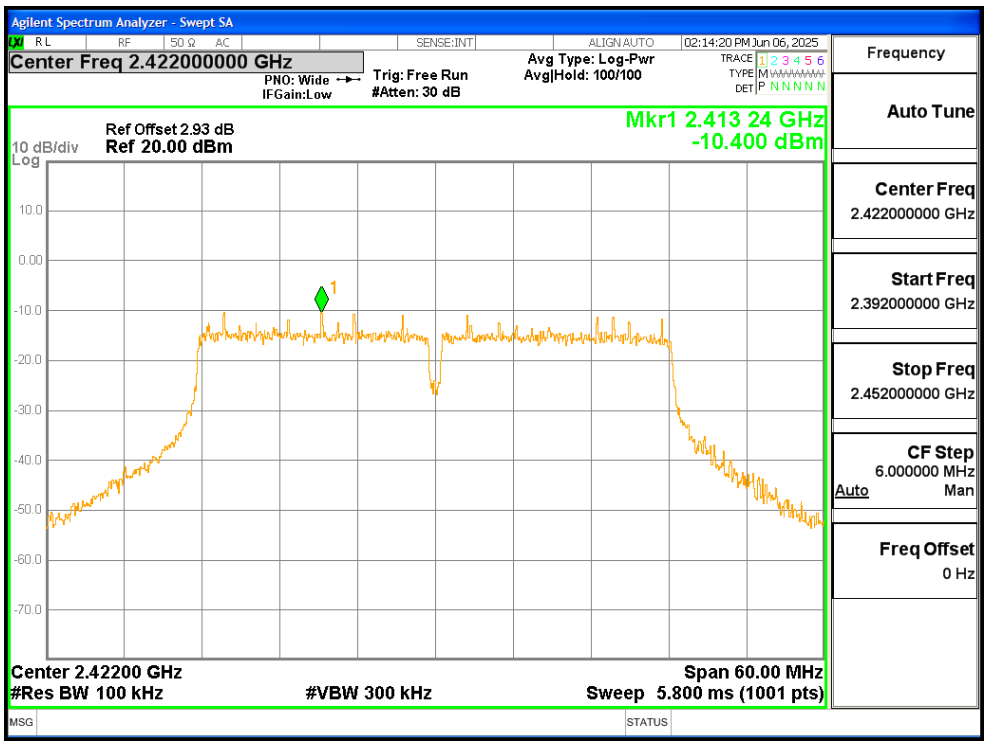
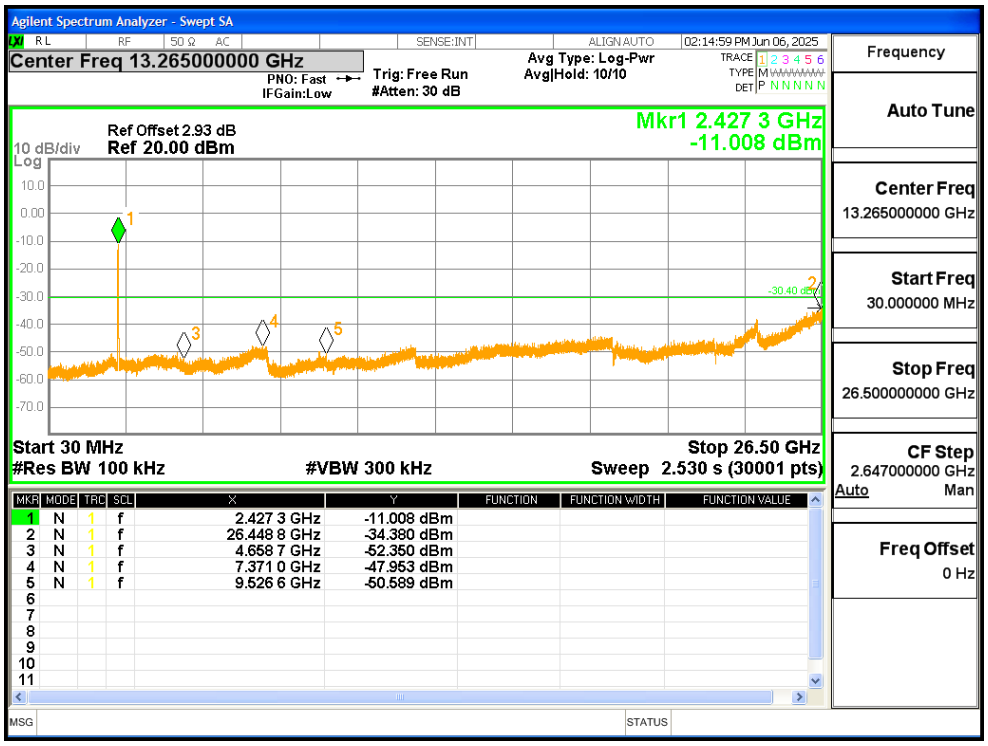
Tx. Spurious NVNT n40 2422MHz Ant1 Ref




Tx. Spurious NVNT n40 2422MHz Ant1 Emission

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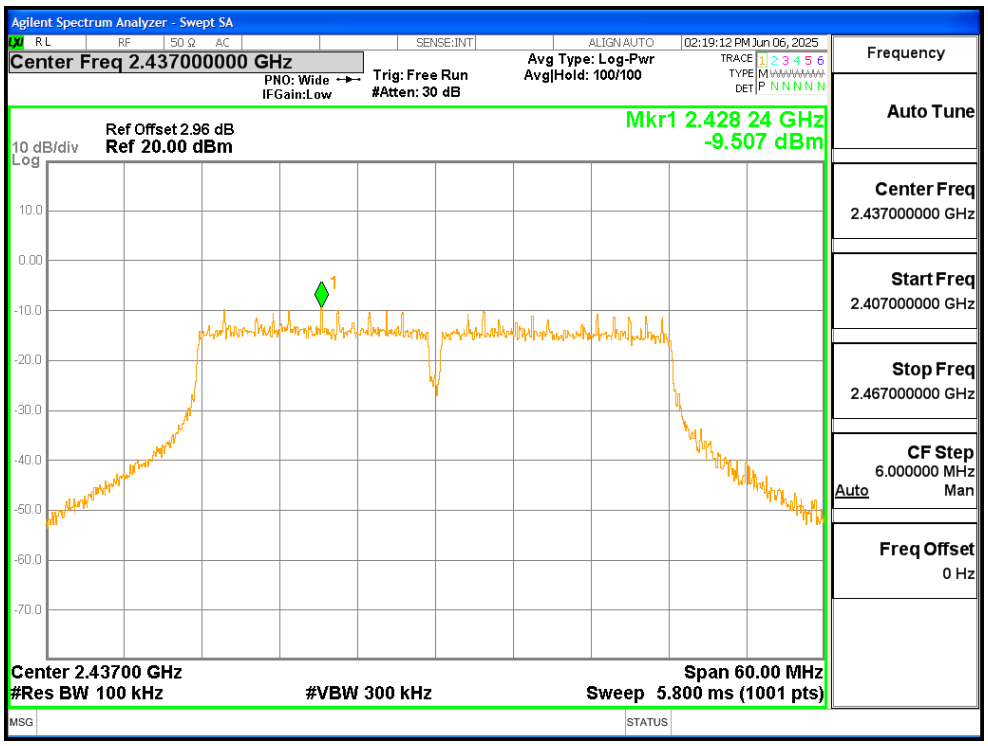
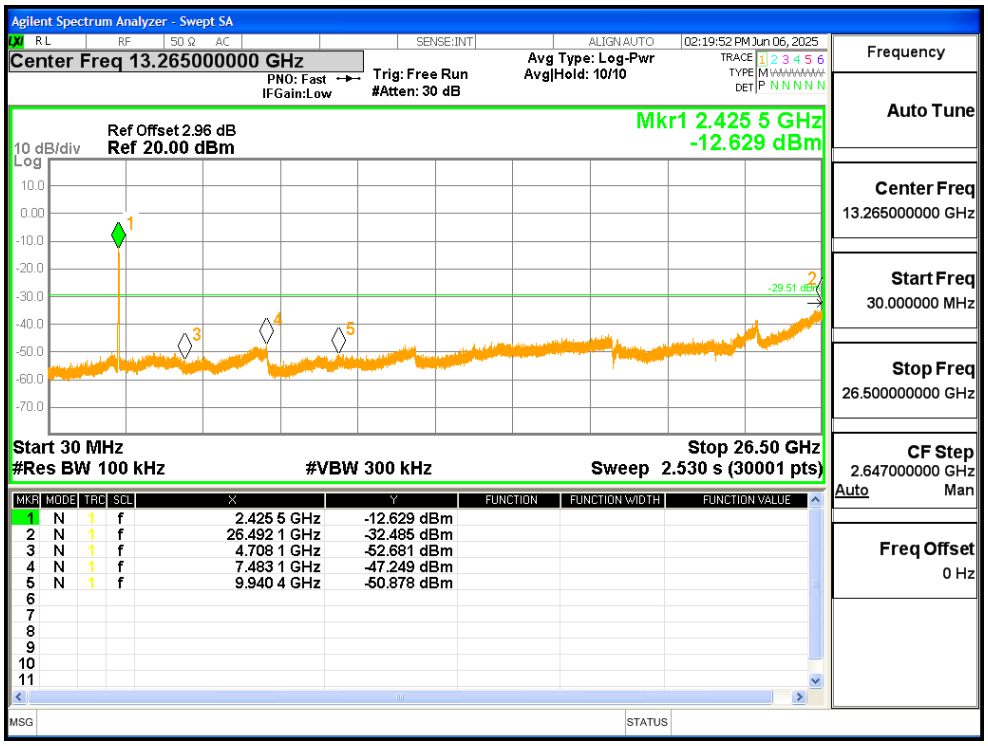
Tx. Spurious NVNT n40 2437MHz Ant1 Ref




Tx. Spurious NVNT n40 2437MHz Ant1 Emission

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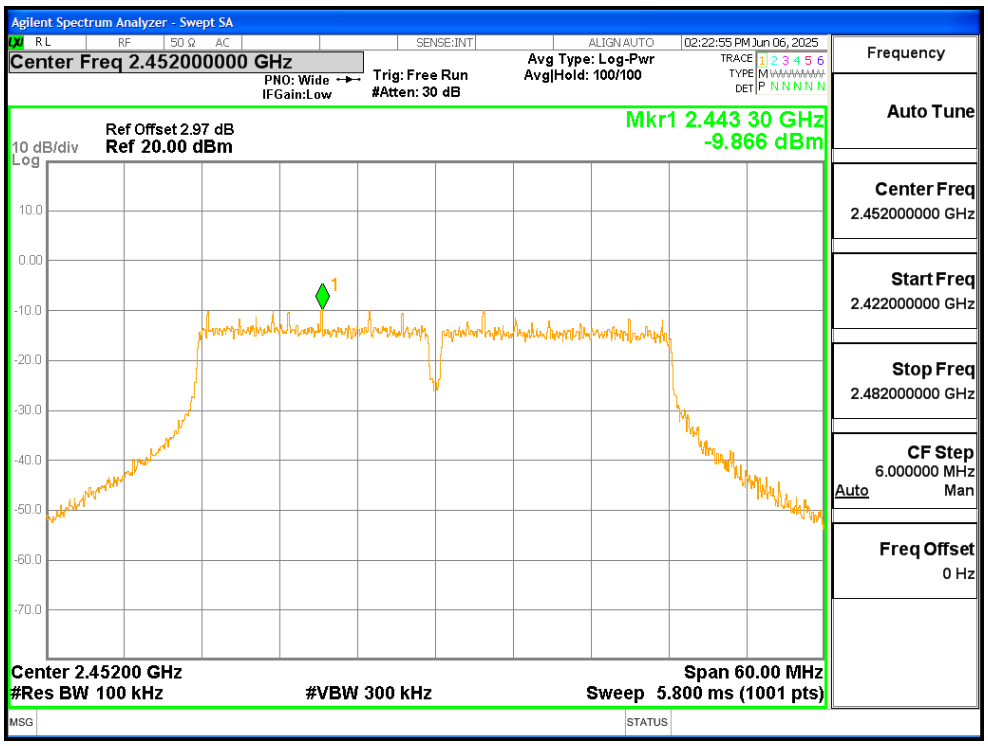
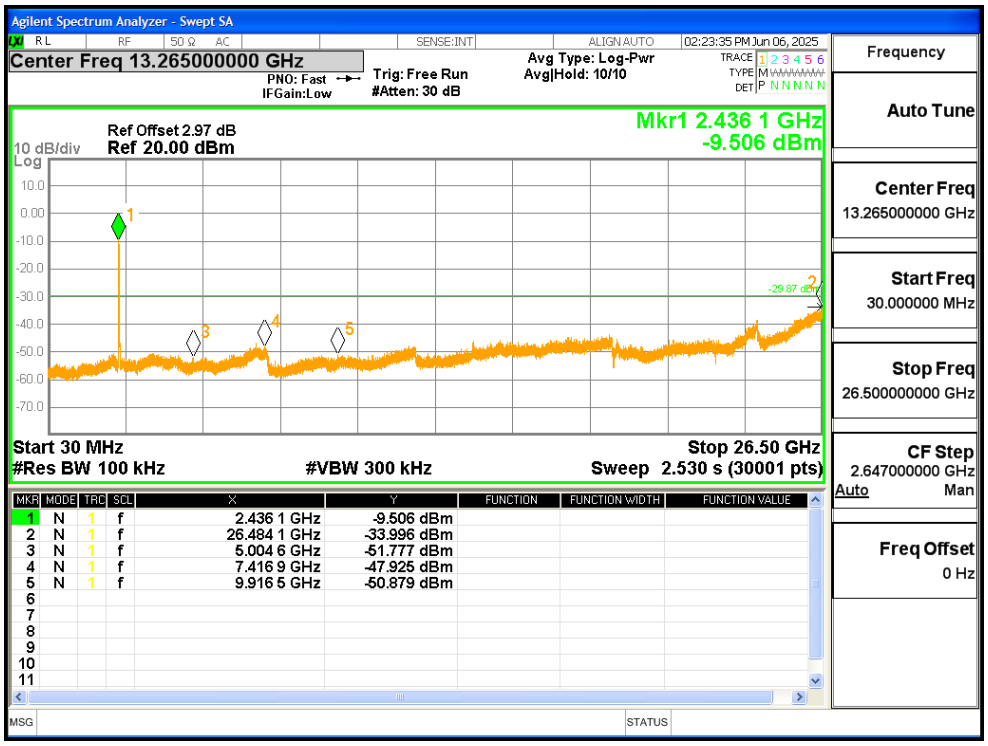
Tx. Spurious NVNT n40 2452MHz Ant1 Ref




Tx. Spurious NVNT n40 2452MHz Ant1 Emission

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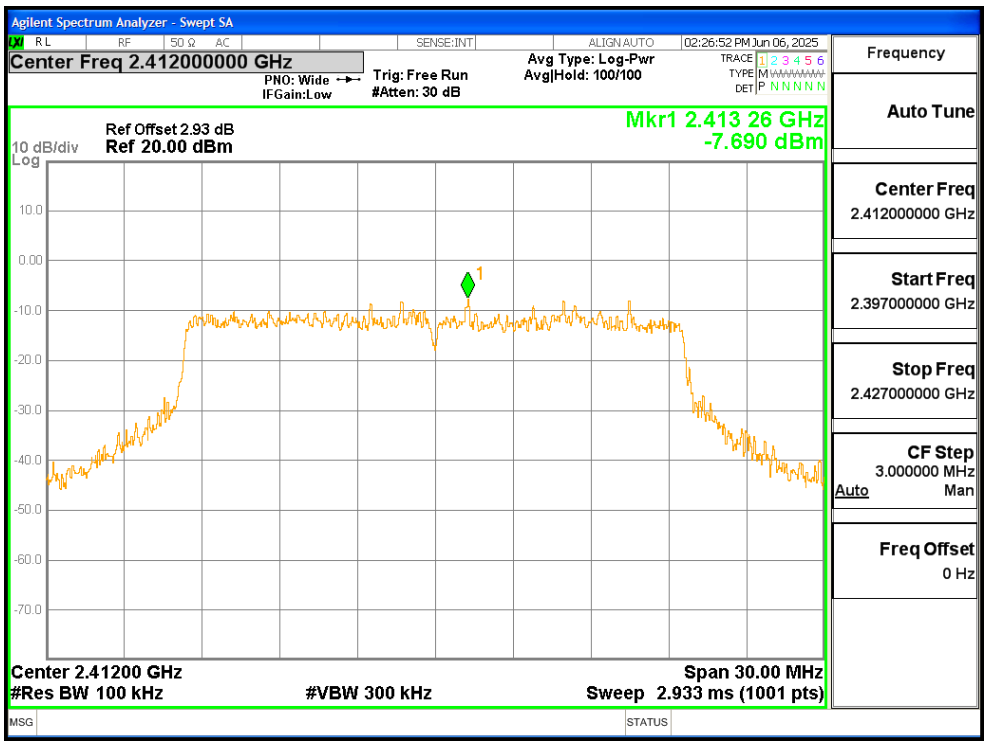
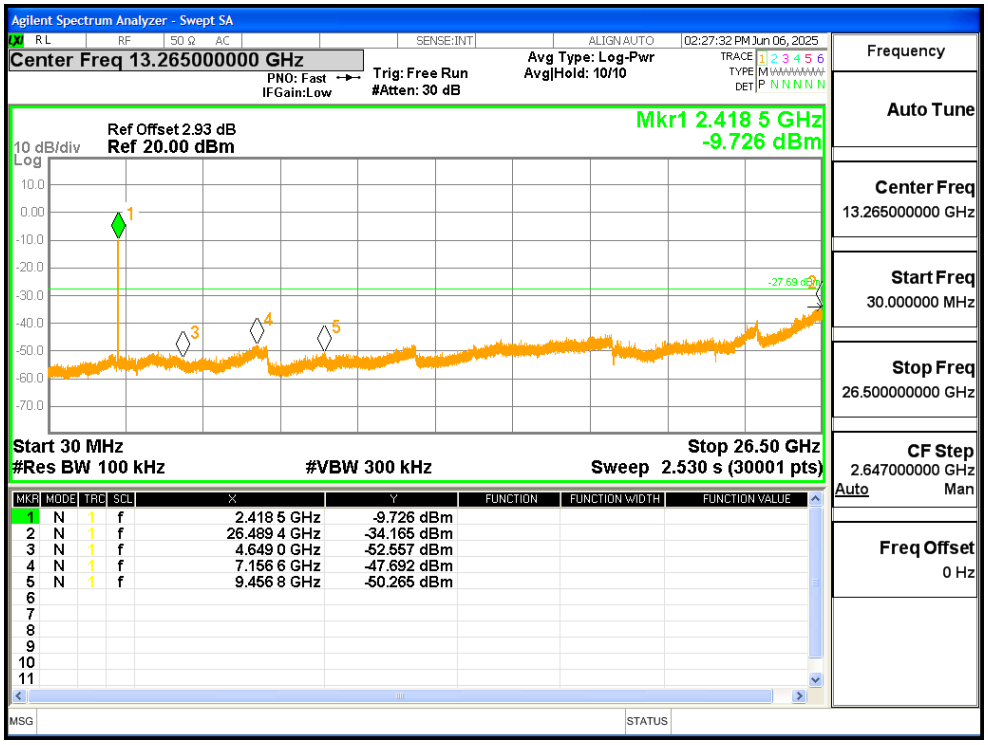
Tx. Spurious NVNT ax20 2412MHz Ant1 Ref




Tx. Spurious NVNT ax20 2412MHz Ant1 Emission

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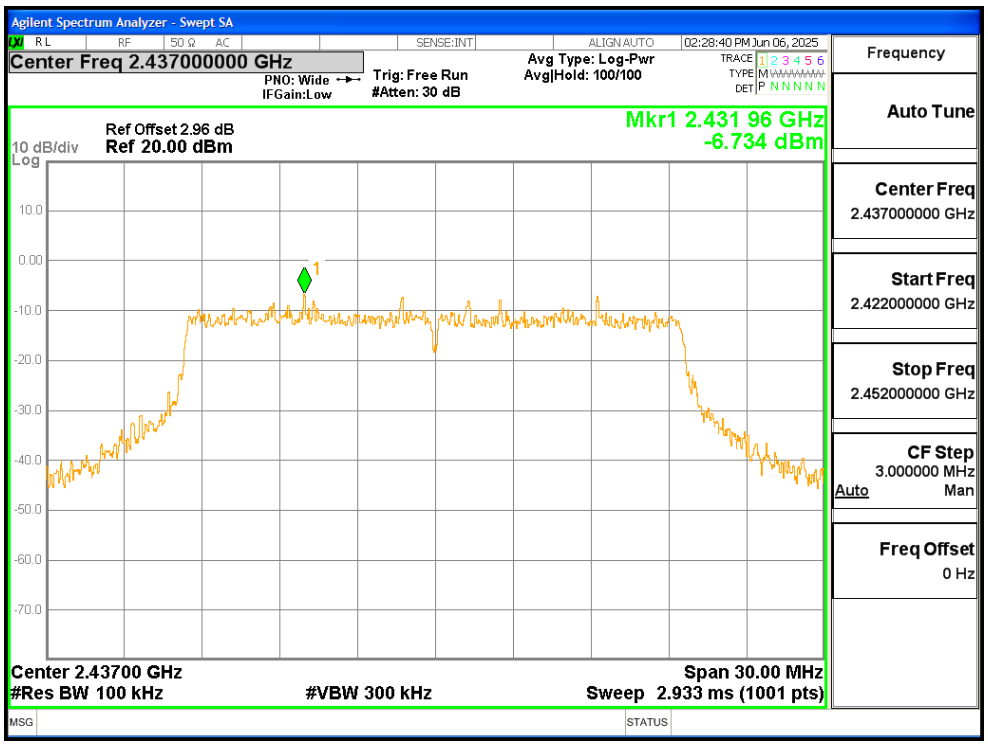
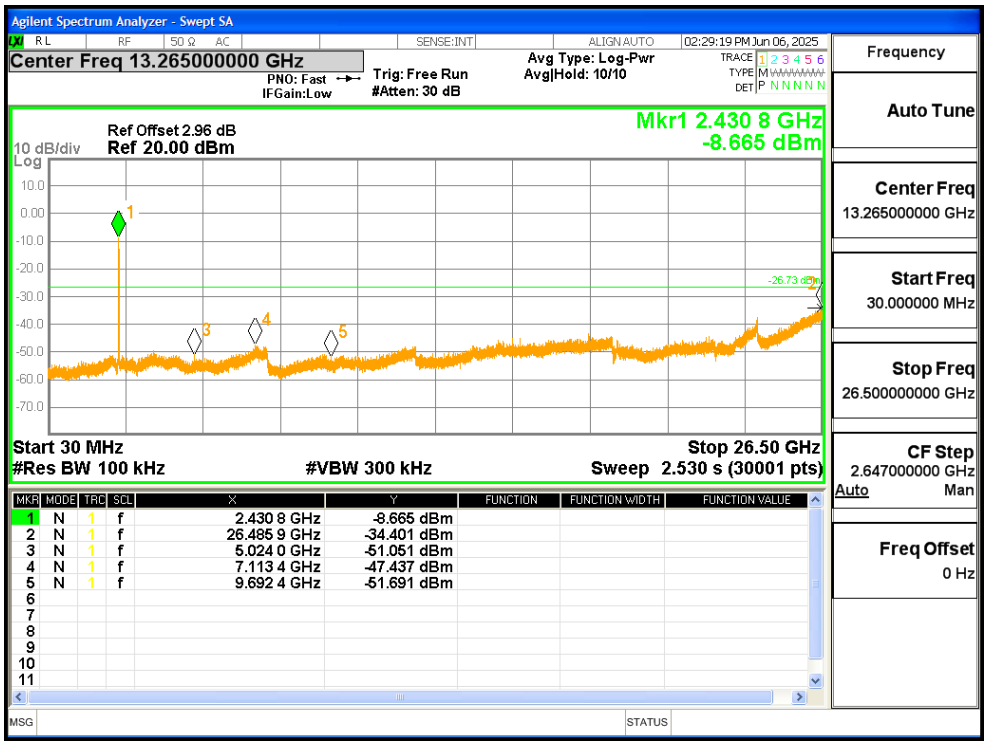
Tx. Spurious NVNT ax20 2437MHz Ant1 Ref




Tx. Spurious NVNT ax20 2437MHz Ant1 Emission

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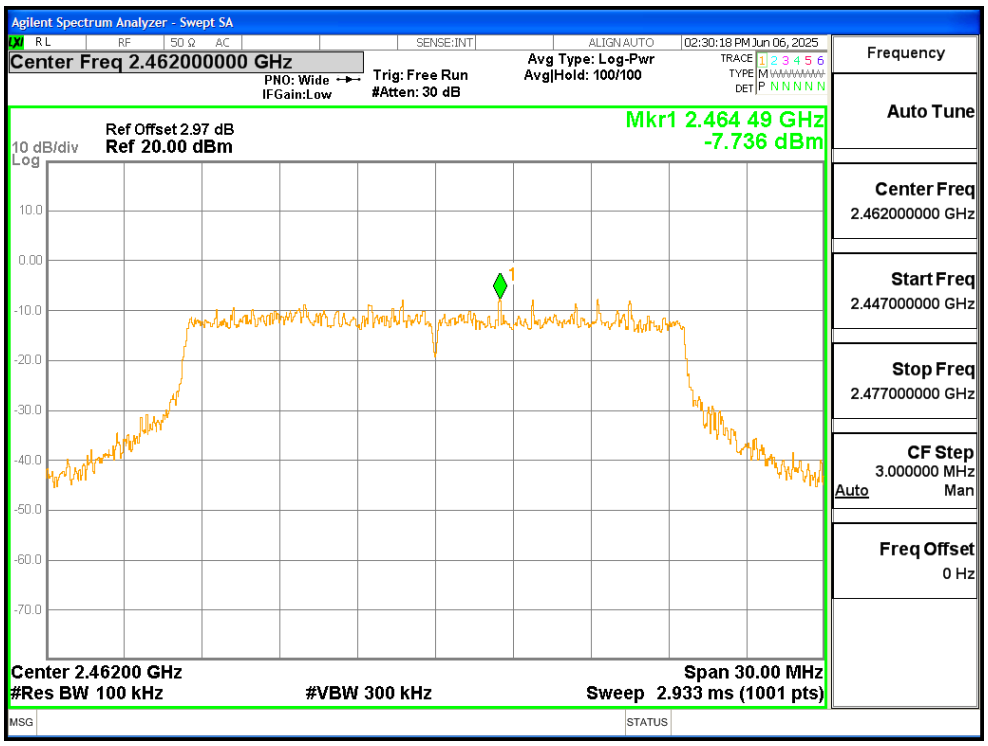
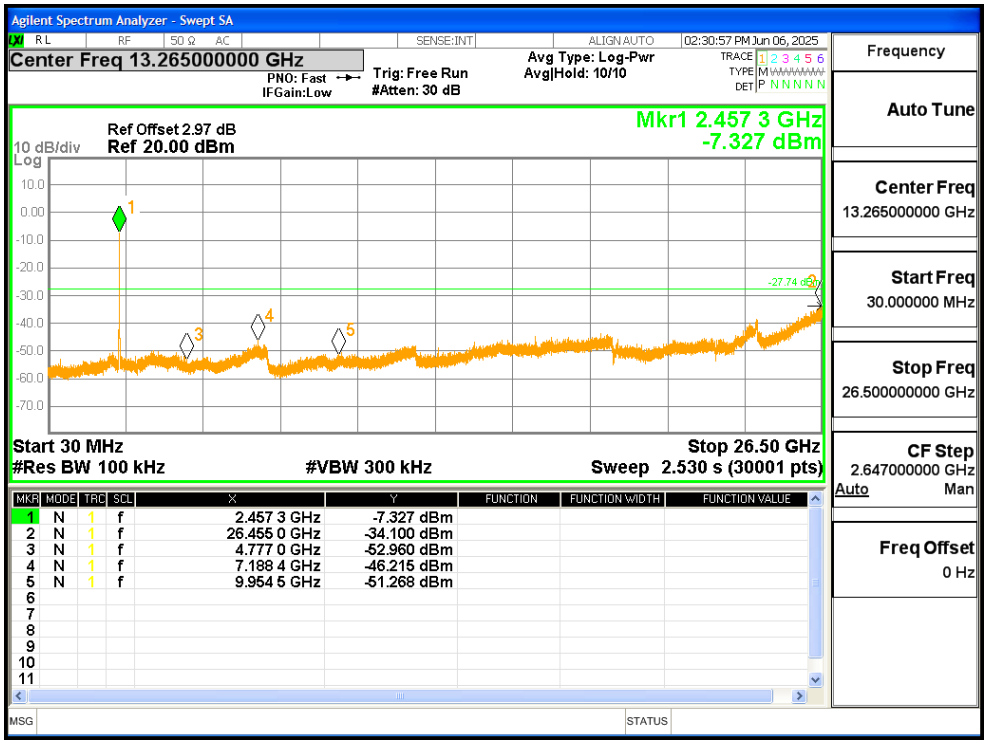
Tx. Spurious NVNT ax20 2462MHz Ant1 Ref




Tx. Spurious NVNT ax20 2462MHz Ant1 Emission

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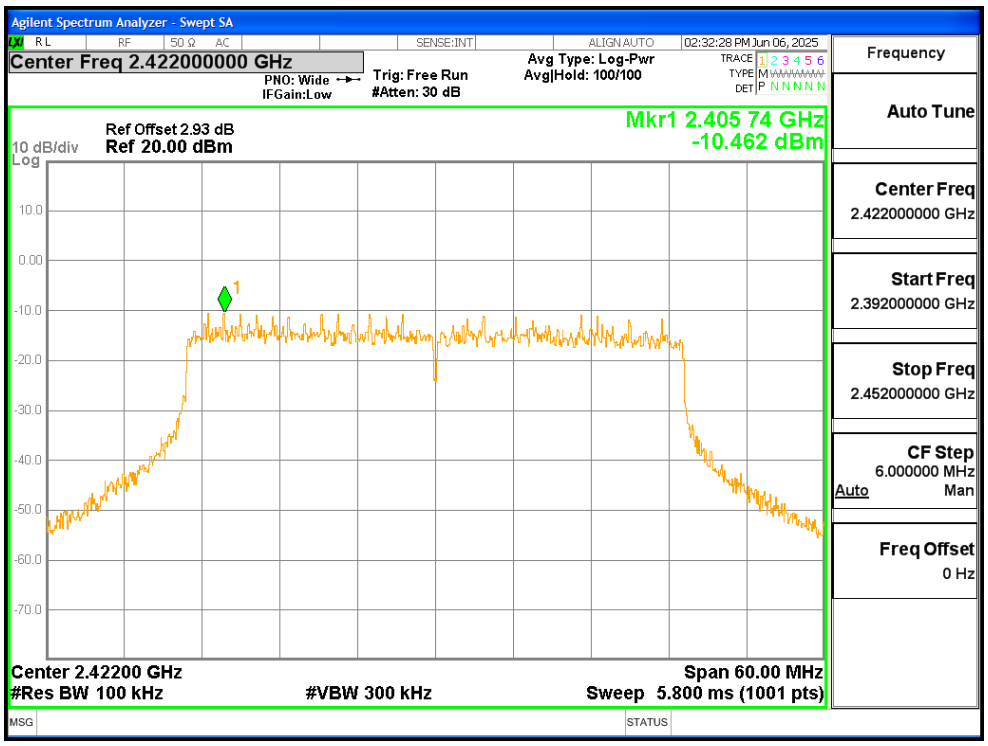
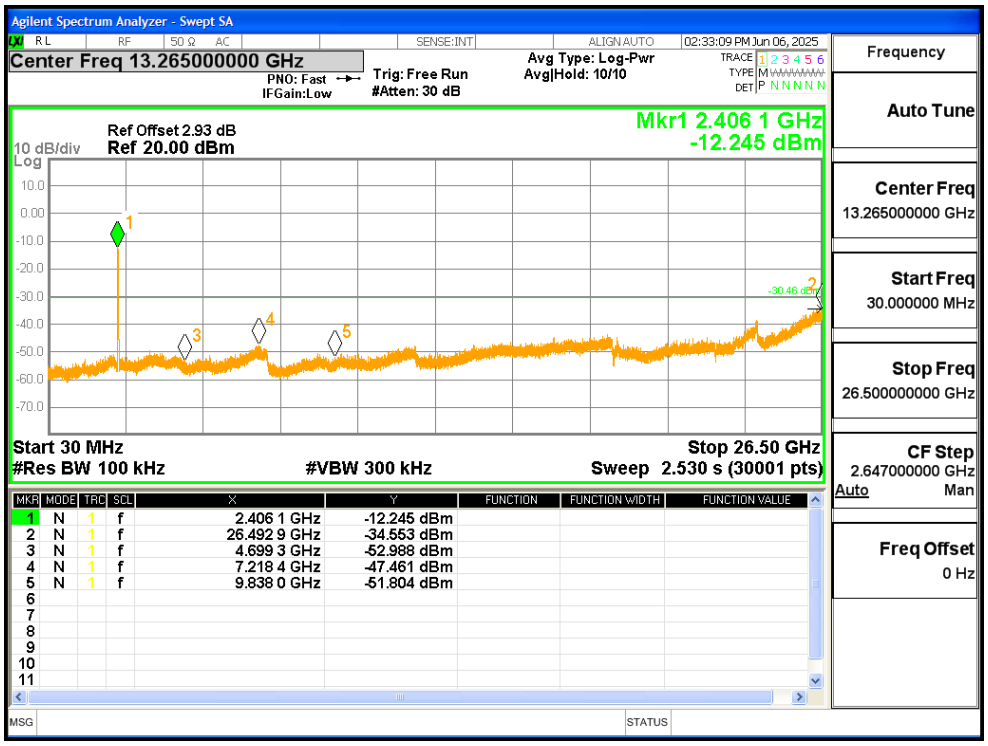
Tx. Spurious NVNT ax40 2422MHz Ant1 Ref




Tx. Spurious NVNT ax40 2422MHz Ant1 Emission

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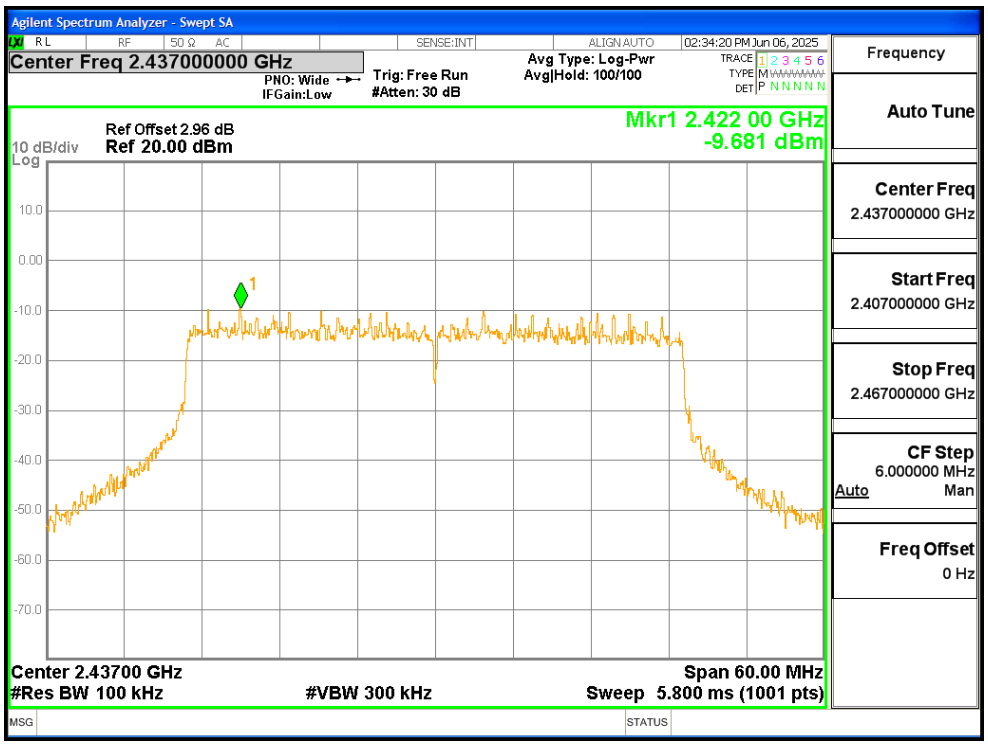
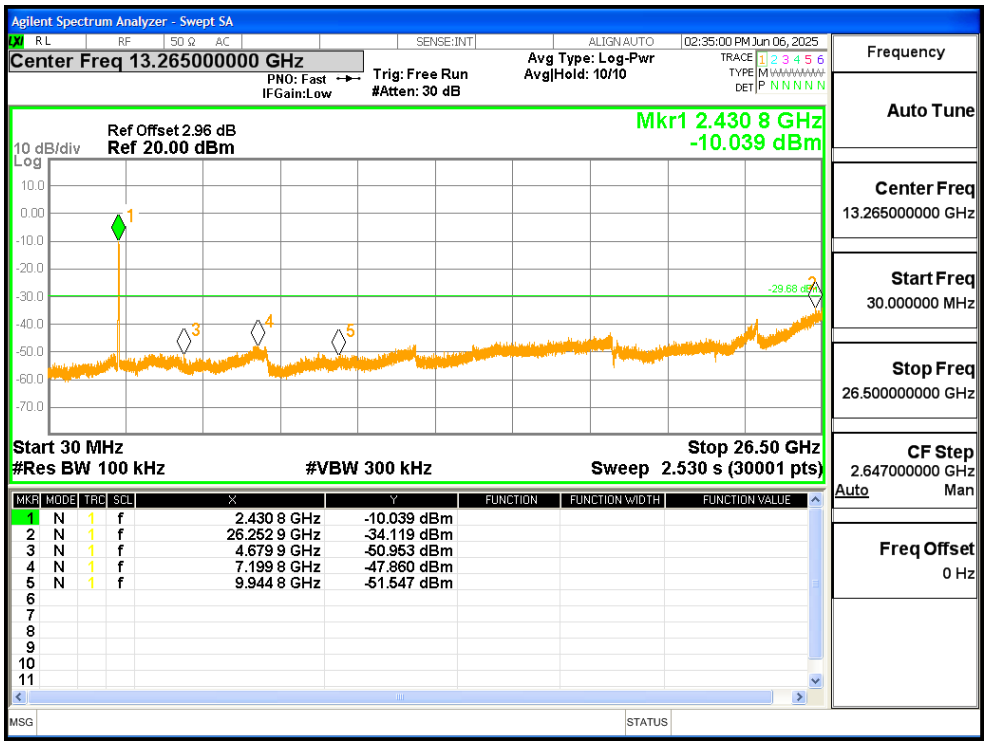
Tx. Spurious NVNT ax40 2437MHz Ant1 Ref




Tx. Spurious NVNT ax40 2437MHz Ant1 Emission

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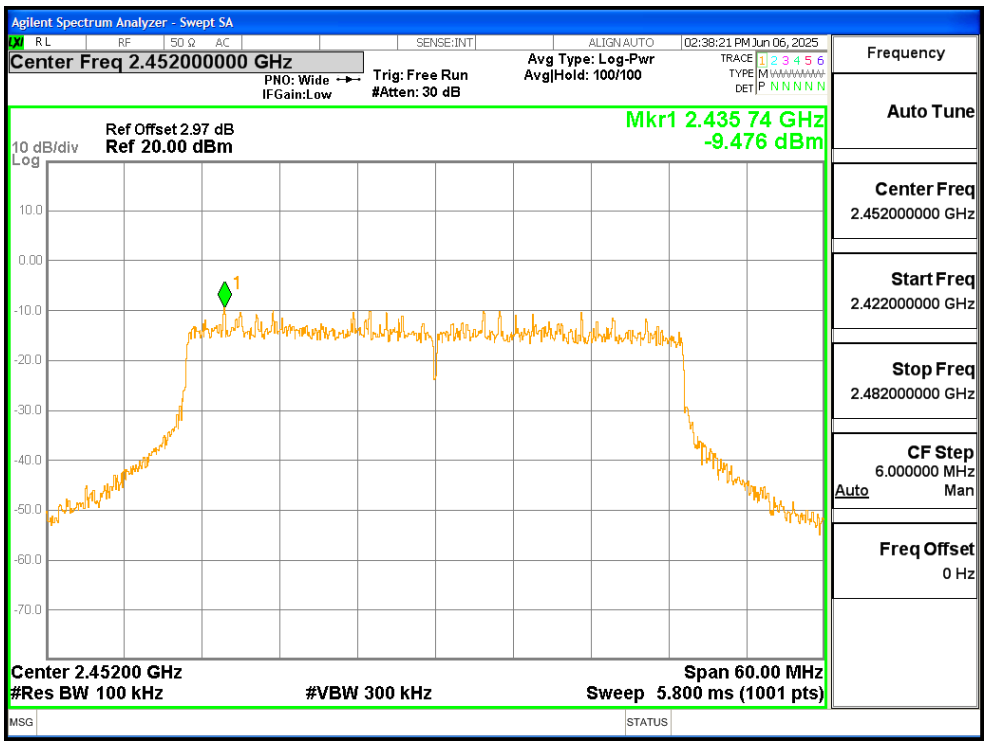
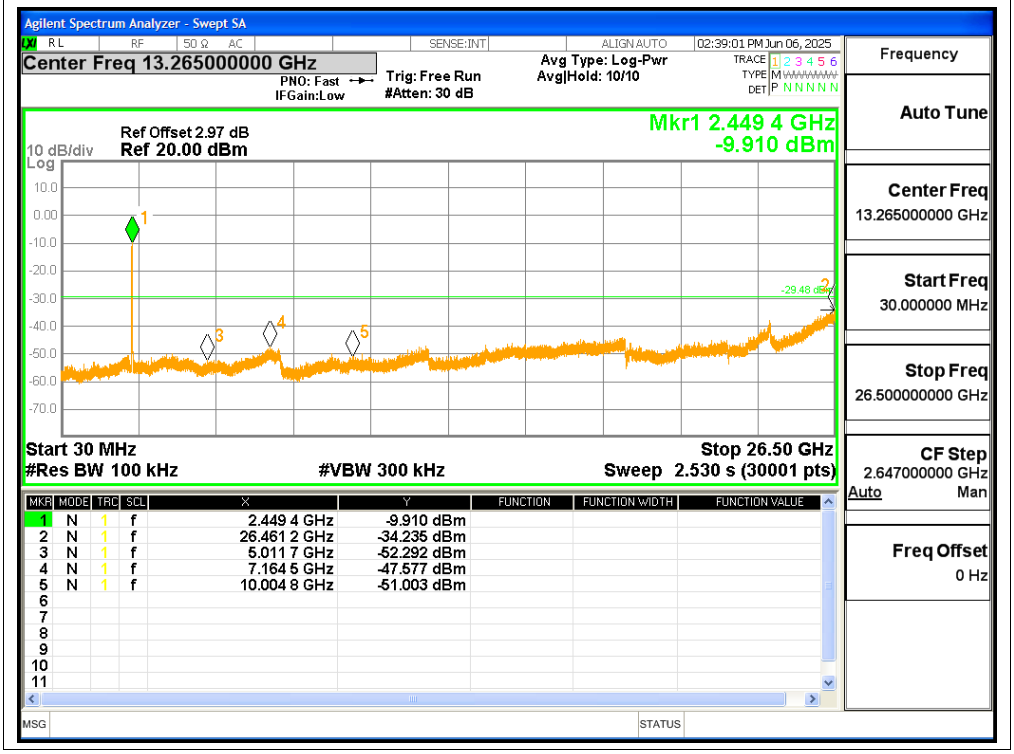
Tx. Spurious NVNT ax40 2452MHz Ant1 Ref




Tx. Spurious NVNT ax40 2452MHz Ant1 Emission

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**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11b mode, Low Channel, Horizontal | | | | |
| 2390 | PK (dBμV/m) | 43.31 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| 802.11b mode, Vertical | | | | |
| 2390 | PK (dBμV/m) | 42.86 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11b mode, High Channel, Horizontal | | | | |
| 2483.5 | PK (dBμV/m) | 53.65 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 37.12 | | 54(dBμV/m) |
| 802.11b mode, High Channel, Vertical | | | | |
| 2483.5 | PK (dBμV/m) | 46.45 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

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**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11g mode, Low Channel, Horizontal | | | | |
| 2390 | PK (dBμV/m) | 45.70 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| 802.11g mode, Vertical | | | | |
| 2390 | PK (dBμV/m) | 45.12 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11g mode, High Channel, Horizontal | | | | |
| 2483.5 | PK (dBμV/m) | 61.76 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 45.01 | | 54(dBμV/m) |
| 802.11g mode, High Channel, Vertical | | | | |
| 2483.5 | PK (dBμV/m) | 53.05 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 38.13 | | 54(dBμV/m) |

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**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11n HT20 mode, Low Channel, Horizontal | | | | |
| 2390 | PK (dBμV/m) | 46.50 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| 802.11n HT20 mode, Vertical | | | | |
| 2390 | PK (dBμV/m) | 45.82 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11n HT20 mode, High Channel, Horizontal | | | | |
| 2483.5 | PK (dBμV/m) | 63.25 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 47.79 | | 54(dBμV/m) |
| 802.11n HT20 mode, High Channel, Vertical | | | | |
| 2483.5 | PK (dBμV/m) | 55.72 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 39.98 | | 54(dBμV/m) |

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**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11n HT40 mode, Low Channel, Horizontal | | | | |
| 2390 | PK (dBμV/m) | 46.01 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| 802.11n HT40 mode, Vertical | | | | |
| 2390 | PK (dBμV/m) | 45.72 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11n H40 mode, High Channel, Horizontal | | | | |
| 2483.5 | PK (dBμV/m) | 64.13 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 48.56 | | 54(dBμV/m) |
| 802.11n H40 mode, High Channel, Vertical | | | | |
| 2483.5 | PK (dBμV/m) | 56.01 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 40.77 | | 54(dBμV/m) |

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**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11ax HEW20 mode, Low Channel, Horizontal | | | | |
| 2390 | PK (dBμV/m) | 46.12 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| 802.11ax HEW20 mode, Vertical | | | | |
| 2390 | PK (dBμV/m) | 46.01 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11ax HEW20 mode, High Channel, Horizontal | | | | |
| 2483.5 | PK (dBμV/m) | 63.02 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 47.59 | | 54(dBμV/m) |
| 802.11ax HEW20 mode, High Channel, Vertical | | | | |
| 2483.5 | PK (dBμV/m) | 55.15 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 39.47 | | 54(dBμV/m) |

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**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11ax HEW40 mode, Low Channel, Horizontal | | | | |
| 2390 | PK (dBμV/m) | 47.02 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| 802.11ax HEW40 mode, Vertical | | | | |
| 2390 | PK (dBμV/m) | 45.86 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

**10.5** Restricted band Measurement

| EUT | EVPAD Player | | Model | EVPAD-12P |
|---|---|---|---|---|
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11ax HEW40 mode, High Channel, Horizontal | | | | |
| 2483.5 | PK (dBμV/m) | 64.65 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 48.22 | | 54(dBμV/m) |
| 802.11ax HEW40 mode, High Channel, Vertical | | | | |
| 2483.5 | PK (dBμV/m) | 56.28 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | 41.53 | | 54(dBμV/m) |

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# 11.0 Antenna Requirement

## 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

## 11.2 Antenna Connected construction

FPC antenna used. The gain of the antennas is 0.31dBi maximum. (Get from the antenna specification provided the applicant)

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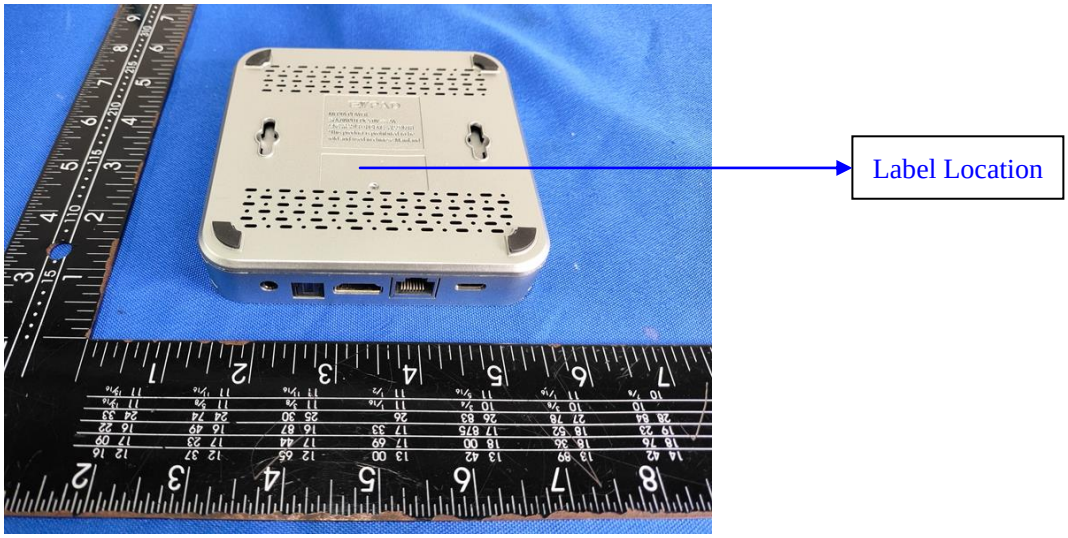
## 12.0 FCC ID Label

**FCC ID: 2A4G812P12S**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

**Mark Location:**




The report refers only to the sample tested and does not apply to the bulk.
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## 13.0 Photo of testing

Conducted Emission Test Setup:

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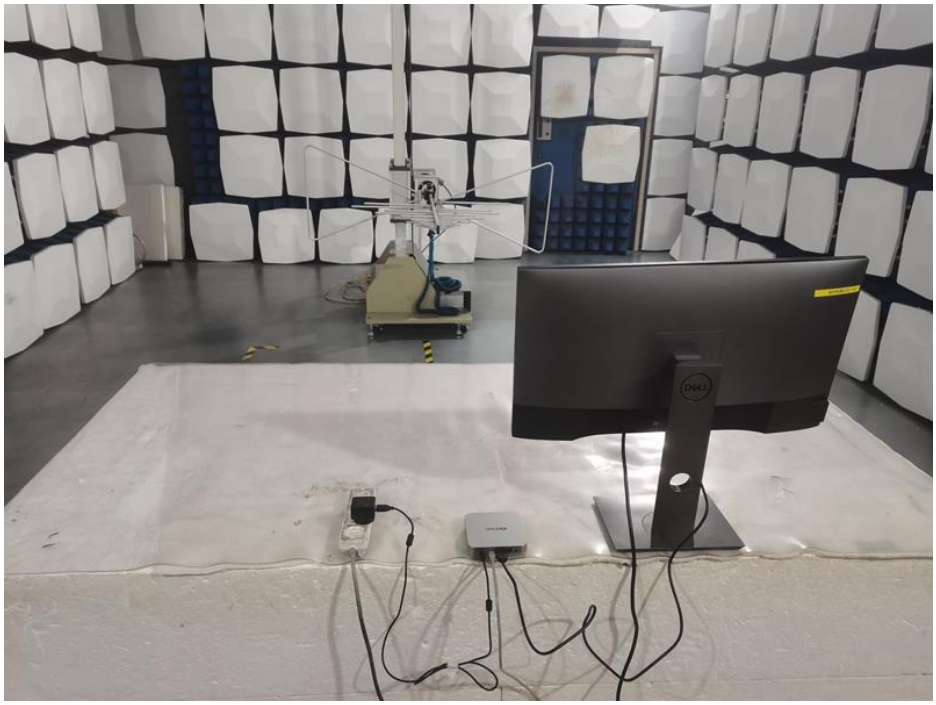
Radiated Emission Test Setup:



**Photographs – EUT**

Please refer test report TWN2506340-01E

**-End of the report-**

The report refers only to the sample tested and does not apply to the bulk.
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