

# ANNEX 3

## FCC ID: 2A8LQ-WE009US

Applicant: Hareau SAS (Weenect)

Address: 101 rue de Sèvres, 75272 Paris cedex 06 France

Manufacturer: Toplovo Industrial Co., Limited

Address: 5F, Building B2b, Yingzhan Industrial Park, Kengzi Town, Pingshan District, Shenzhen, China 518122

EUT: WE009US GPS tracker

Trade Mark: N/A

Model Number: WE009US  
WE009US belongs to general model number WE009

Date of Receipt: Sep. 13, 2024

Test Date: Sep. 13, 2024 - Nov. 01, 2024

Date of Report: Nov. 01, 2024

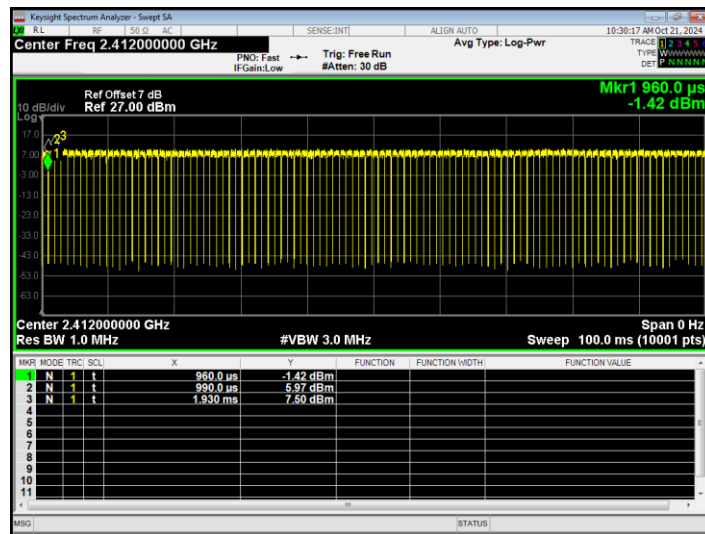
Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

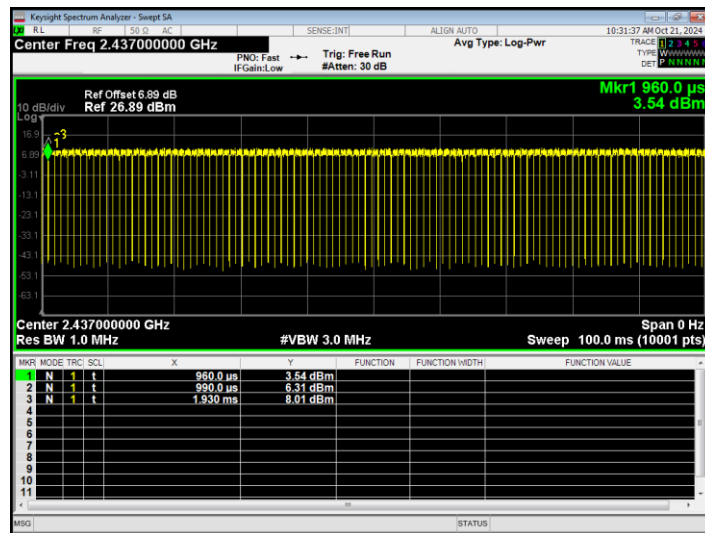
### Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) |
|-----------|------|-----------------|---------|----------------|------------------------|
| NVNT      | b    | 2412            | Ant1    | 96.91          | 0.14                   |
| NVNT      | b    | 2437            | Ant1    | 96.91          | 0.14                   |
| NVNT      | b    | 2462            | Ant1    | 95.92          | 0.18                   |
| NVNT      | g    | 2412            | Ant1    | 81.82          | 0.87                   |
| NVNT      | g    | 2437            | Ant1    | 81.82          | 0.87                   |
| NVNT      | g    | 2462            | Ant1    | 81.82          | 0.87                   |
| NVNT      | n20  | 2412            | Ant1    | 96.3           | 0.16                   |
| NVNT      | n20  | 2437            | Ant1    | 97.04          | 0.13                   |
| NVNT      | n20  | 2462            | Ant1    | 96.3           | 0.16                   |

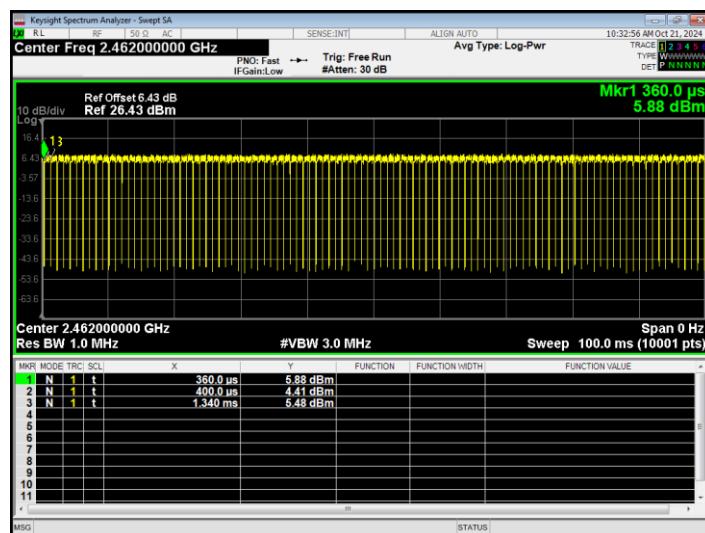
Duty Cycle NVNT b 2412MHz Ant1



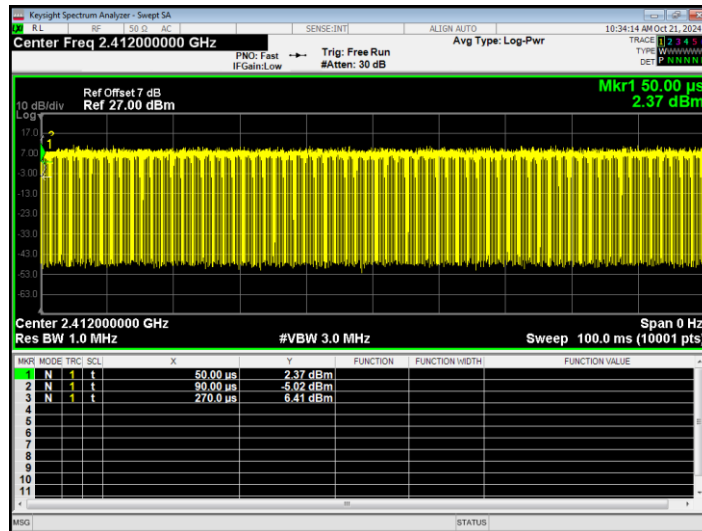
Duty Cycle NVNT b 2437MHz Ant1



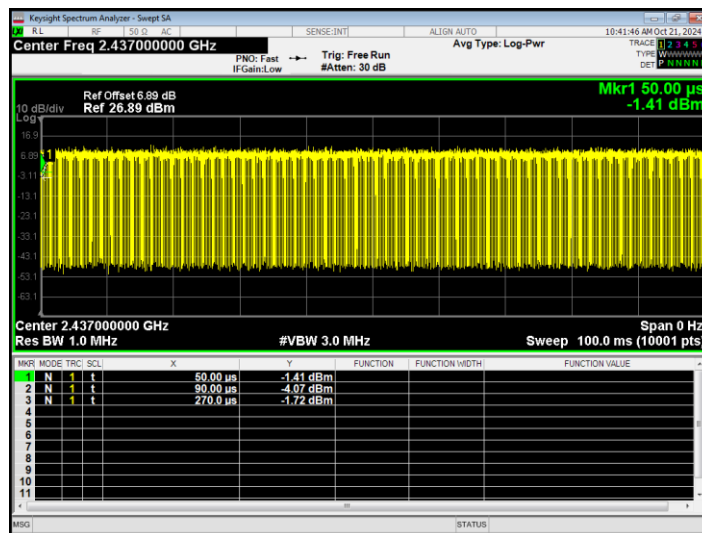
Duty Cycle NVNT b 2462MHz Ant1



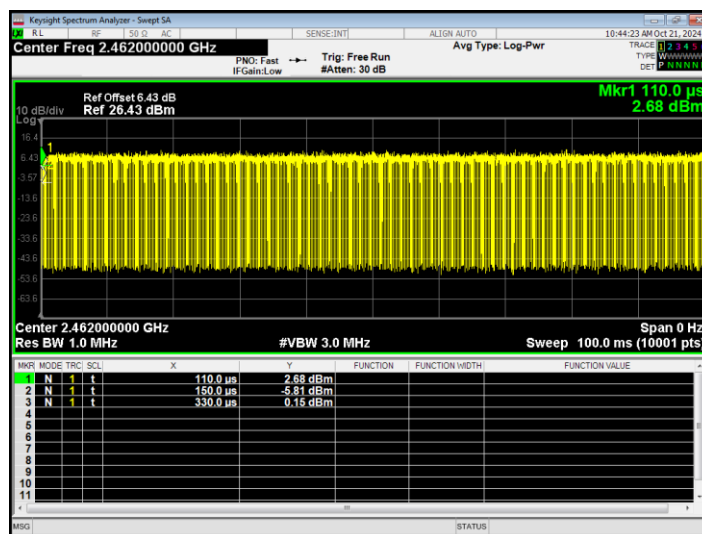
Duty Cycle NVNT g 2412MHz Ant1



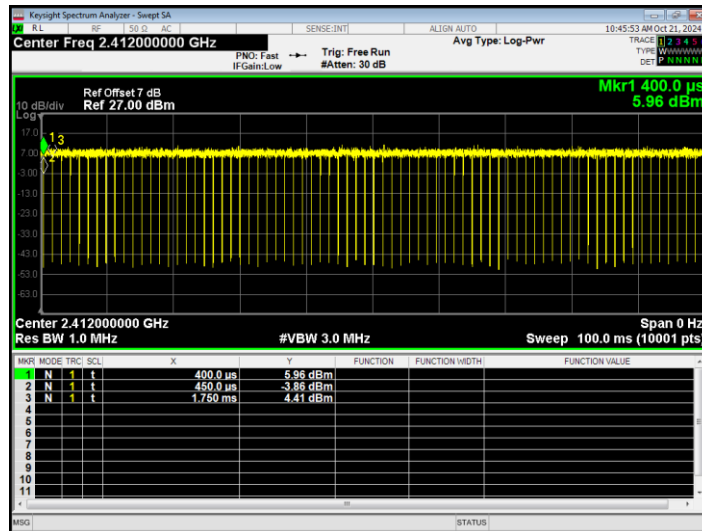
Duty Cycle NVNT g 2437MHz Ant1



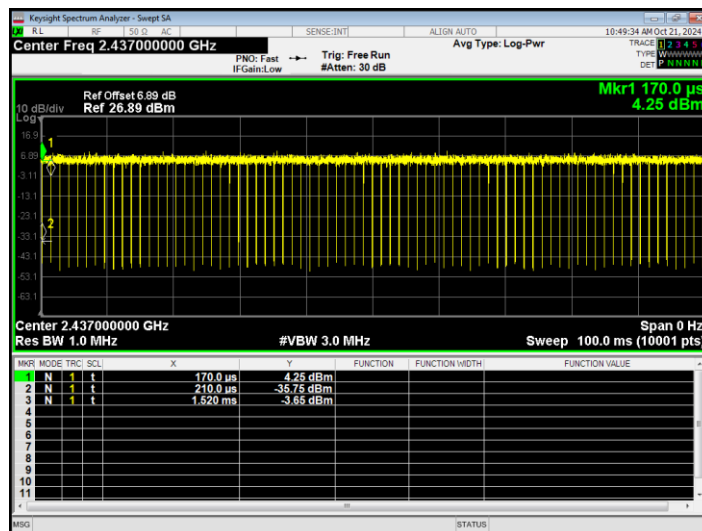
Duty Cycle NVNT g 2462MHz Ant1



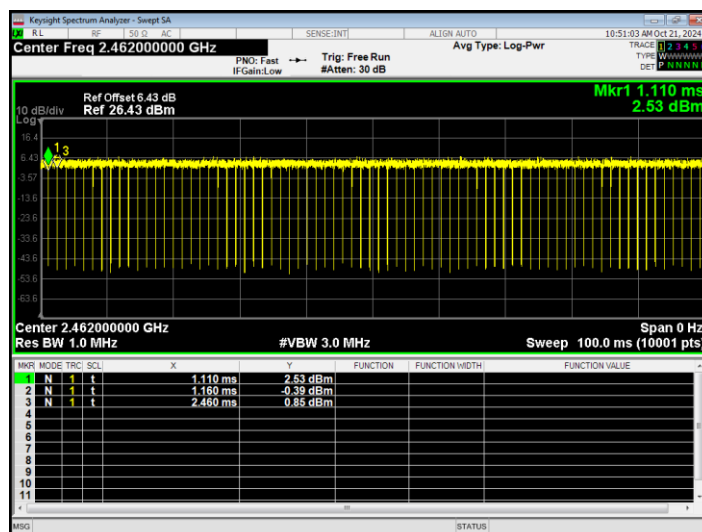
Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



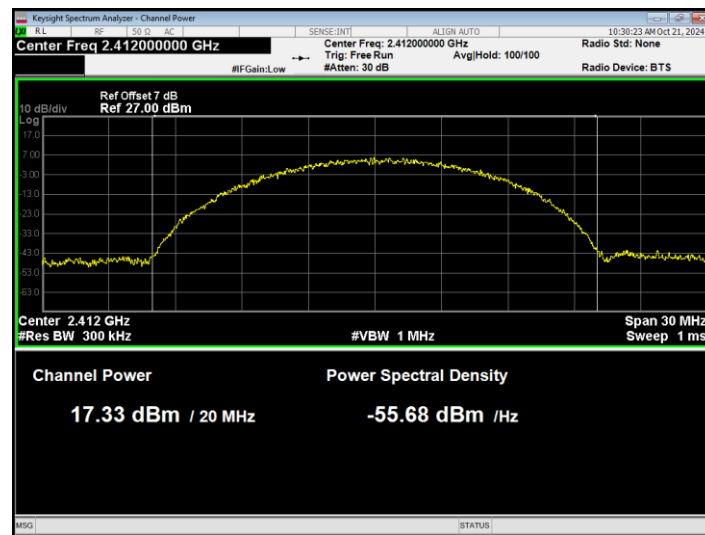
Duty Cycle NVNT n20 2462MHz Ant1



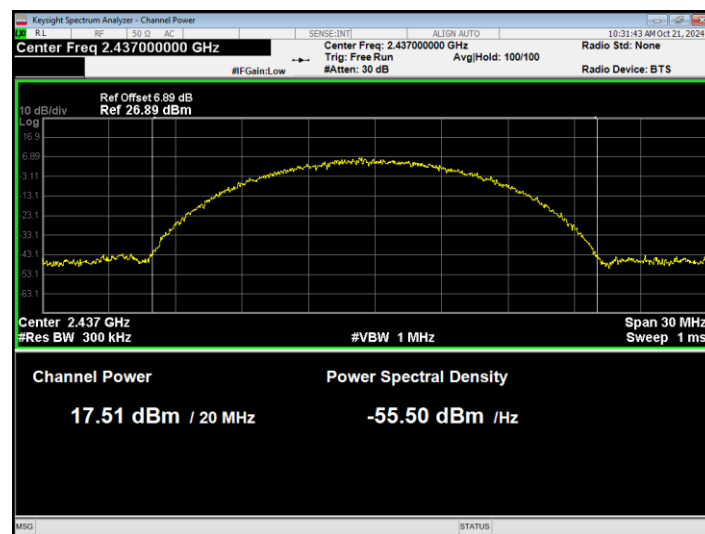
## Maximum Conducted Output Power

| Condition | Mode | Frequency<br>(MHz) | Antenna | Conducted Power<br>(dBm) | Duty Factor<br>(dB) | Total Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|------|--------------------|---------|--------------------------|---------------------|----------------------|----------------|---------|
| NVNT      | b    | 2412               | Ant1    | 17.329                   | 0.14                | 17.47                | 30             | Pass    |
| NVNT      | b    | 2437               | Ant1    | 17.513                   | 0.14                | 17.65                | 30             | Pass    |
| NVNT      | b    | 2462               | Ant1    | 16.591                   | 0.18                | 16.77                | 30             | Pass    |
| NVNT      | g    | 2412               | Ant1    | 15.931                   | 0.87                | 16.80                | 30             | Pass    |
| NVNT      | g    | 2437               | Ant1    | 15.653                   | 0.87                | 16.52                | 30             | Pass    |
| NVNT      | g    | 2462               | Ant1    | 14.593                   | 0.87                | 15.46                | 30             | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 16.675                   | 0.16                | 16.84                | 30             | Pass    |
| NVNT      | n20  | 2437               | Ant1    | 16.018                   | 0.13                | 16.15                | 30             | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 15.894                   | 0.16                | 16.05                | 30             | Pass    |

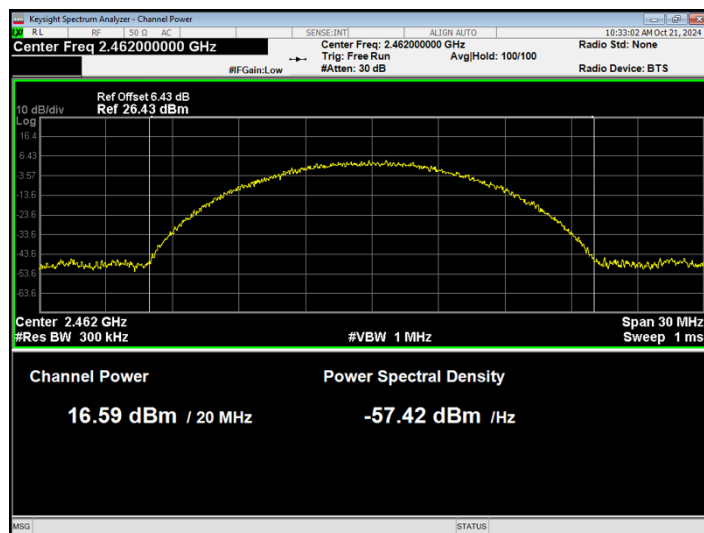
Power NVNT b 2412MHz Ant1



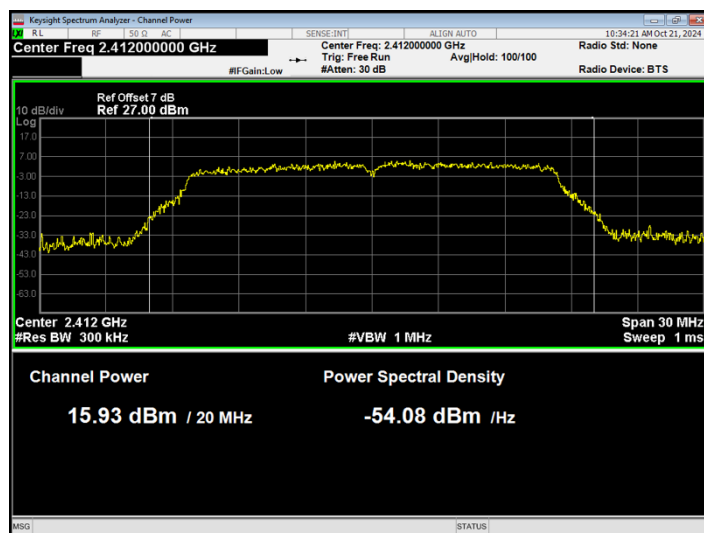
Power NVNT b 2437MHz Ant1



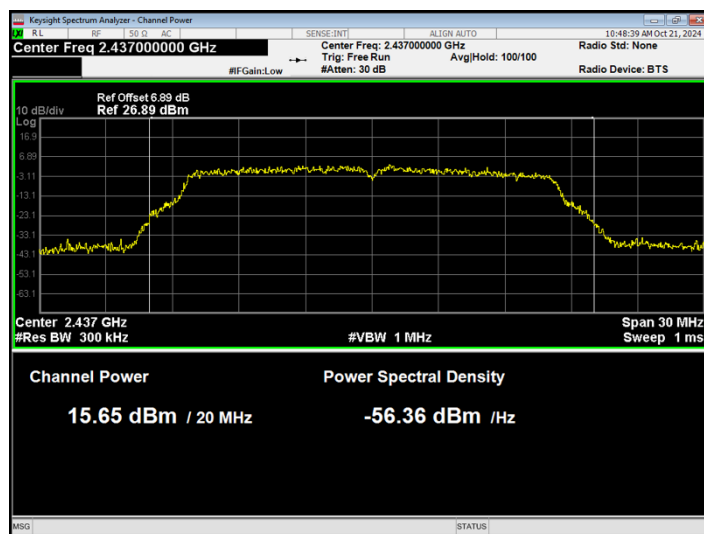
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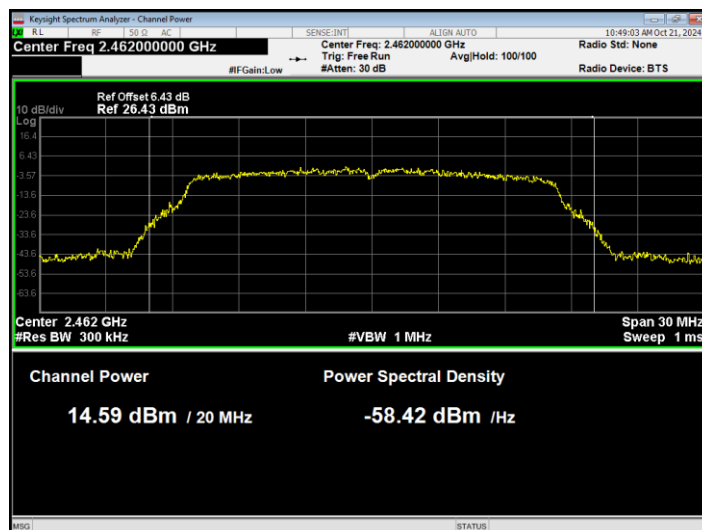
Power NVNT g 2412MHz Ant1



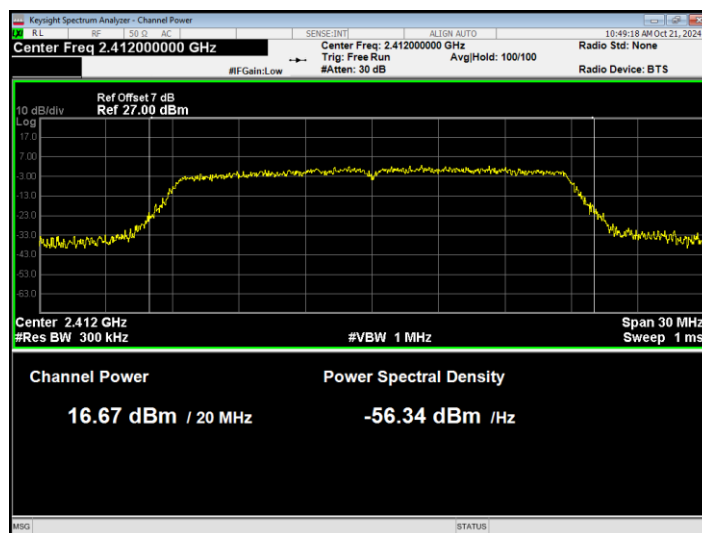
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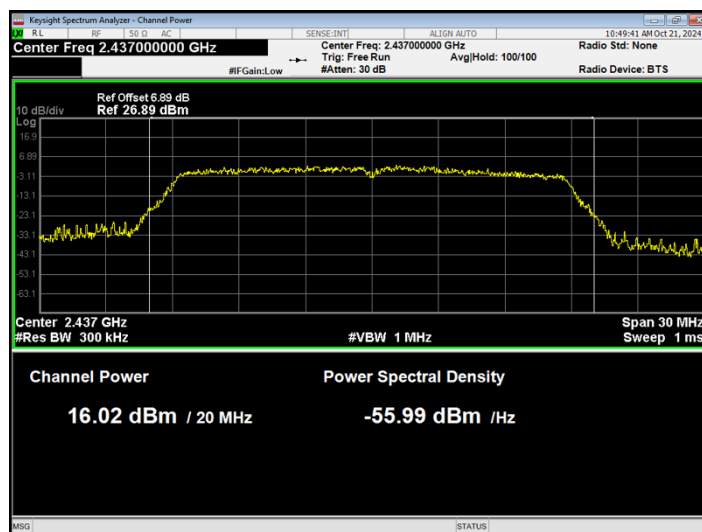
Power NVNT g 2462MHz Ant1



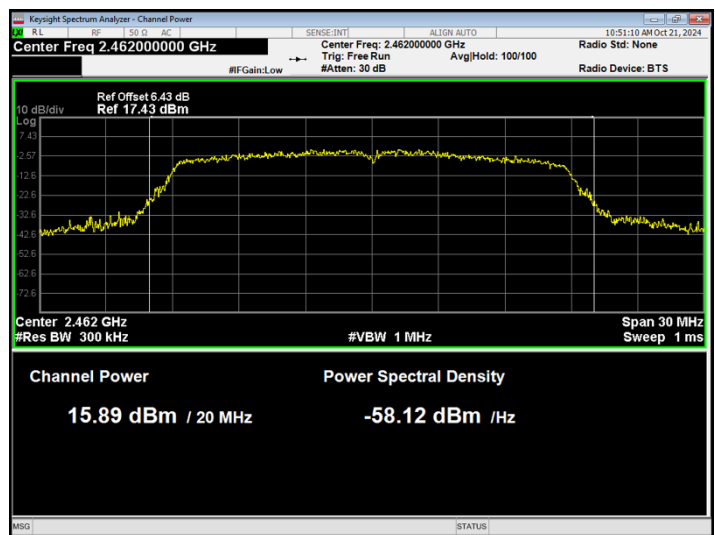
Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1



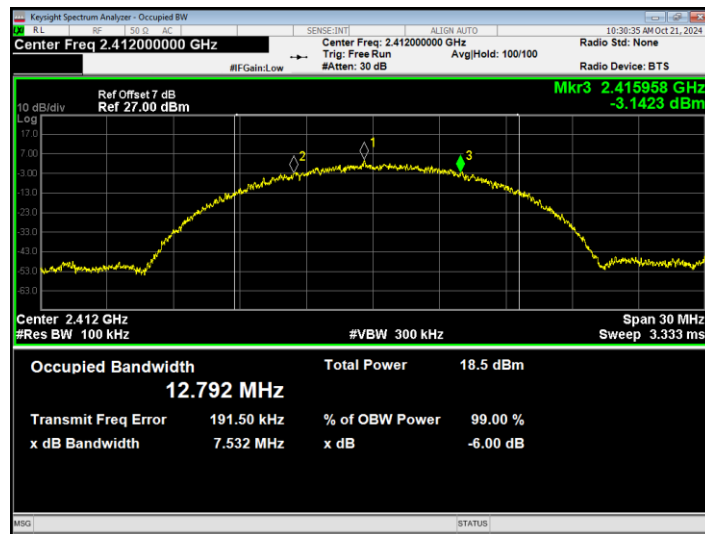
Power NVNT n20 2462MHz Ant1



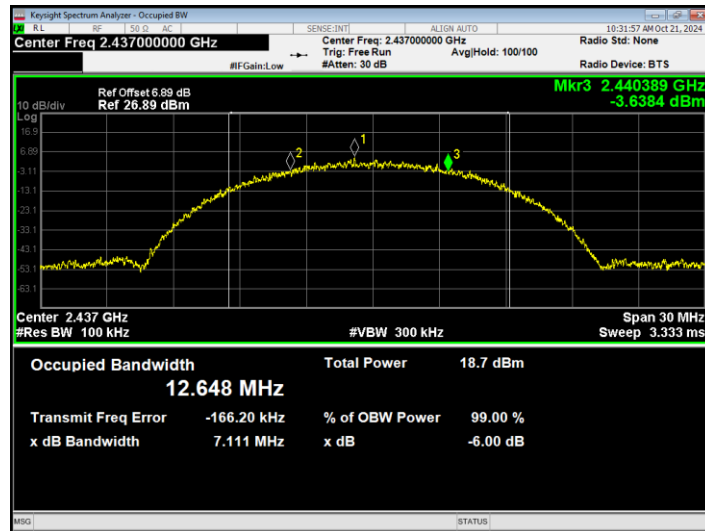
**-6dB Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 7.532                 | 0.5                         | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.111                 | 0.5                         | Pass    |
| NVNT      | b    | 2462            | Ant1    | 6.853                 | 0.5                         | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.039                | 0.5                         | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.018                | 0.5                         | Pass    |
| NVNT      | g    | 2462            | Ant1    | 15.721                | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.853                | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 15.12                 | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 14.995                | 0.5                         | Pass    |

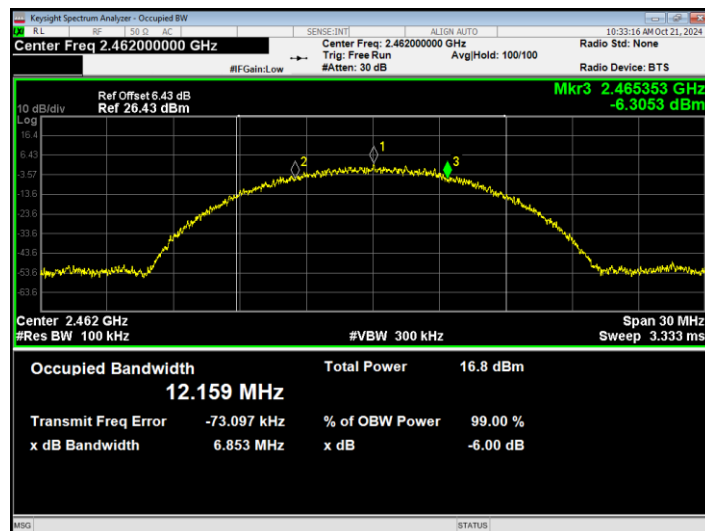
-6dB Bandwidth NVNT b 2412MHz Ant1



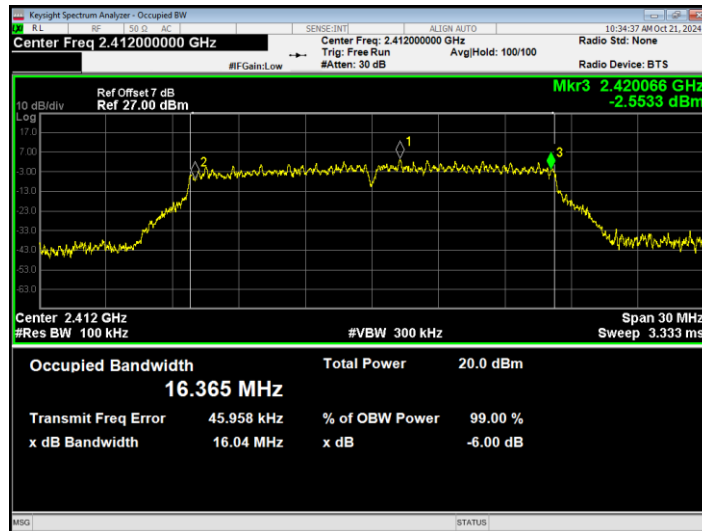
-6dB Bandwidth NVNT b 2437MHz Ant1



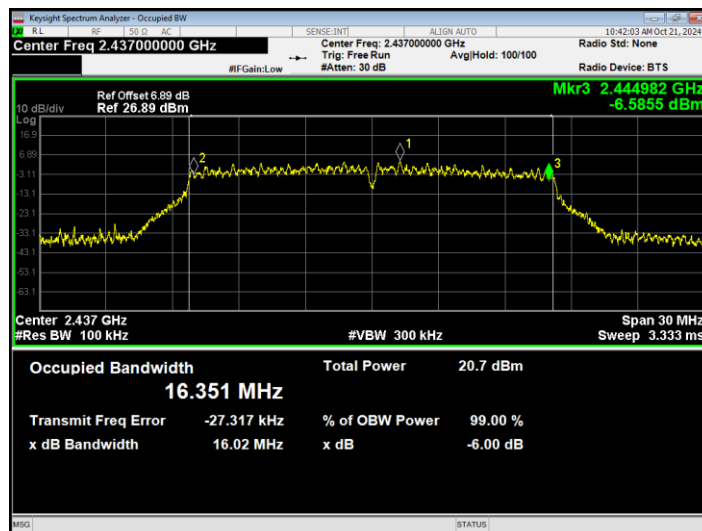
-6dB Bandwidth NVNT b 2462MHz Ant1



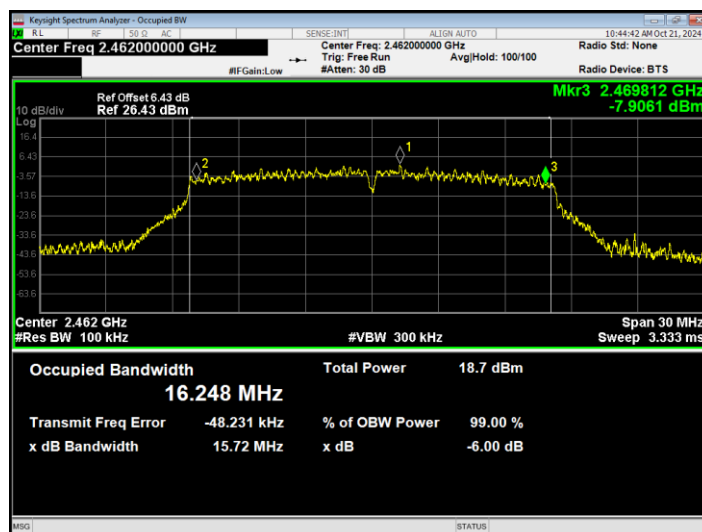
-6dB Bandwidth NVNT g 2412MHz Ant1



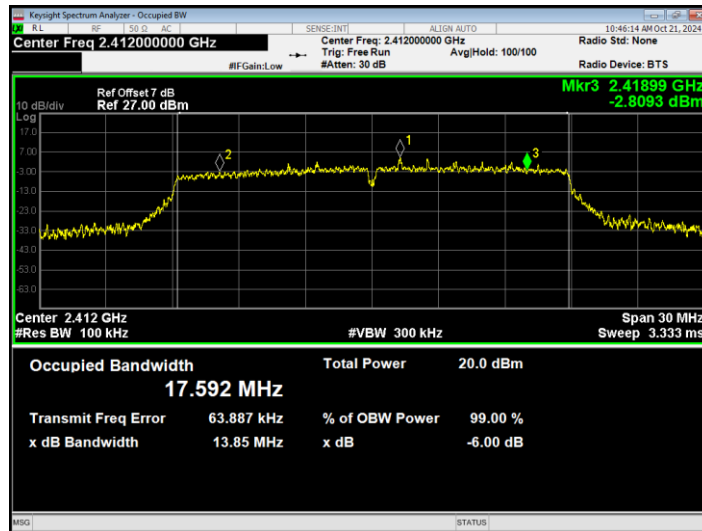
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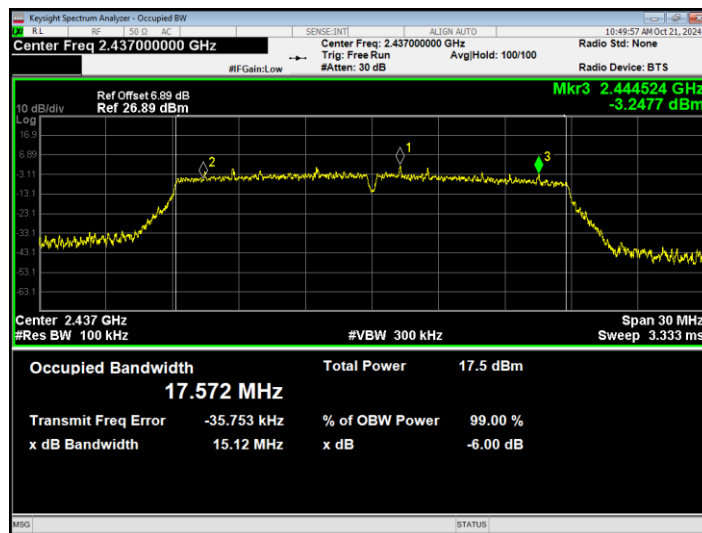
-6dB Bandwidth NVNT g 2462MHz Ant1



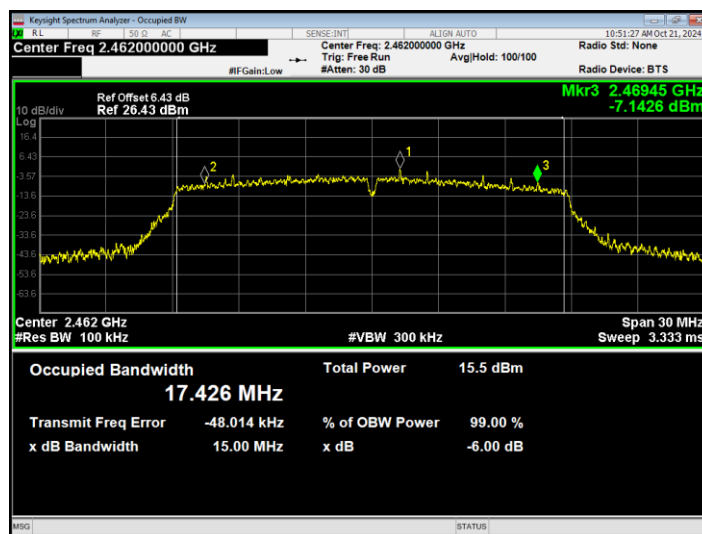
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



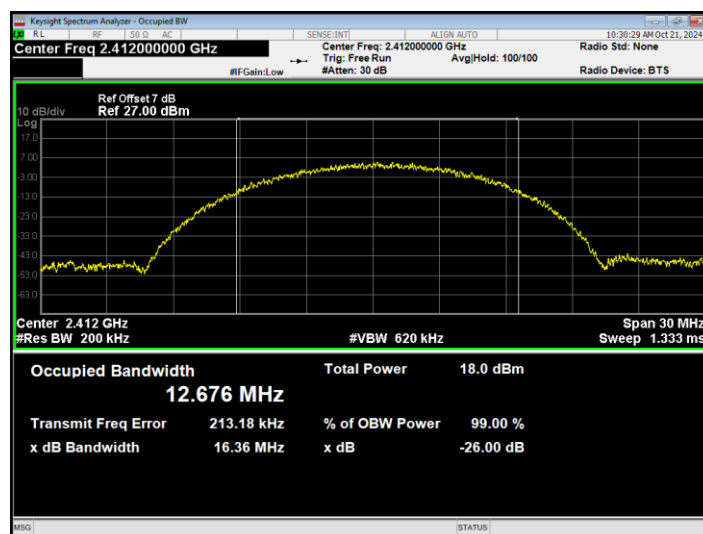
-6dB Bandwidth NVNT n20 2462MHz Ant1



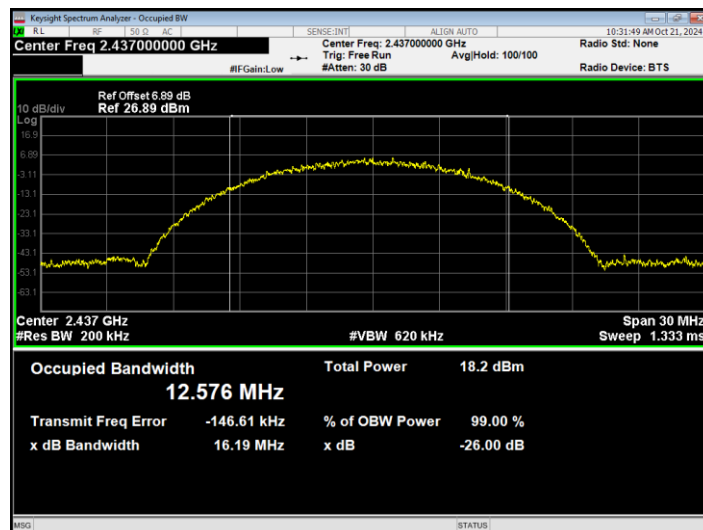
## Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | b    | 2412            | Ant1    | 12.6758111    |
| NVNT      | b    | 2437            | Ant1    | 12.57639021   |
| NVNT      | b    | 2462            | Ant1    | 12.14412881   |
| NVNT      | g    | 2412            | Ant1    | 16.44599768   |
| NVNT      | g    | 2437            | Ant1    | 16.457806     |
| NVNT      | g    | 2462            | Ant1    | 16.24208265   |
| NVNT      | n20  | 2412            | Ant1    | 17.67028103   |
| NVNT      | n20  | 2437            | Ant1    | 17.57758855   |
| NVNT      | n20  | 2462            | Ant1    | 17.41571343   |

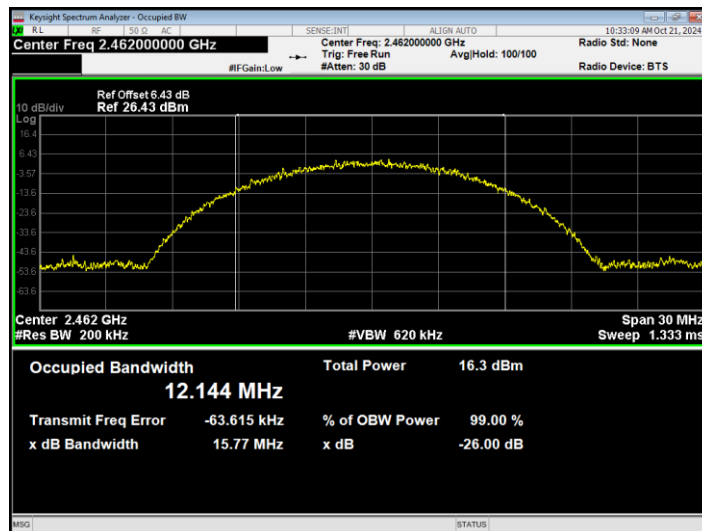
OBW NVNT b 2412MHz Ant1



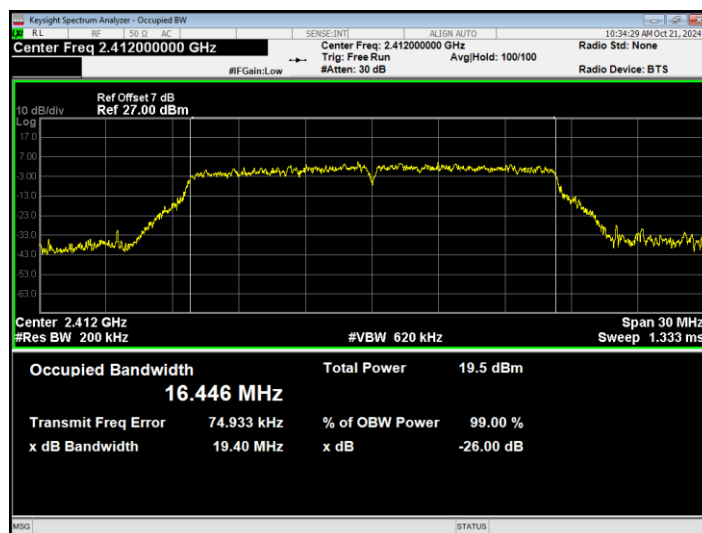
OBW NVNT b 2437MHz Ant1



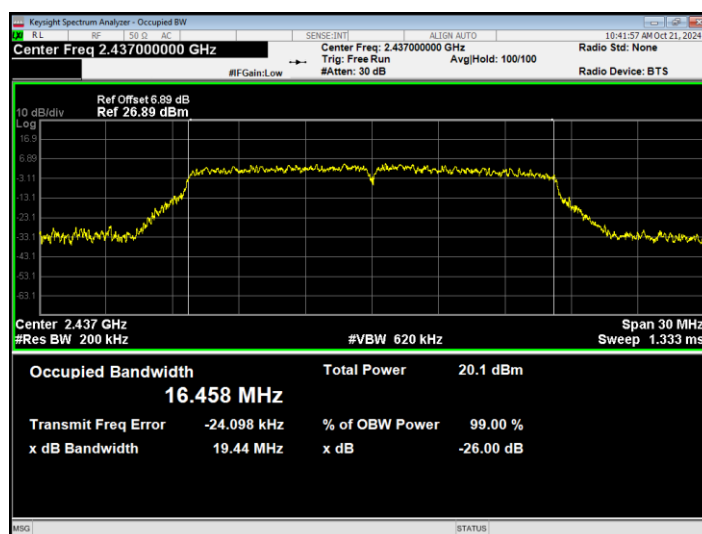
OBW NVNT b 2462MHz Ant1



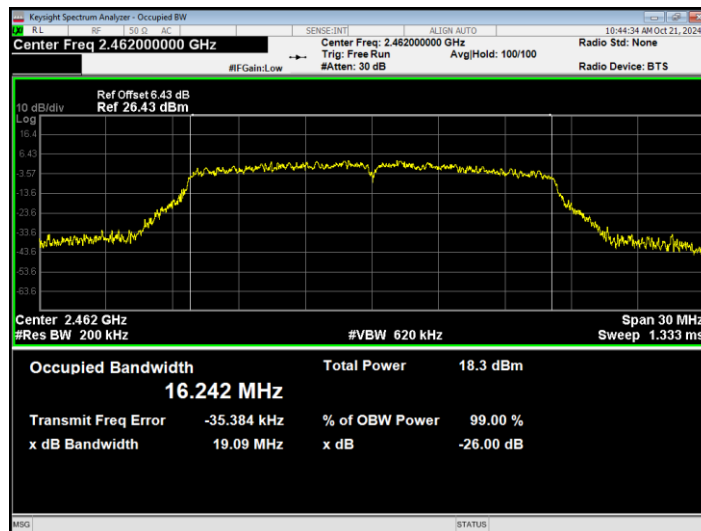
OBW NVNT g 2412MHz Ant1



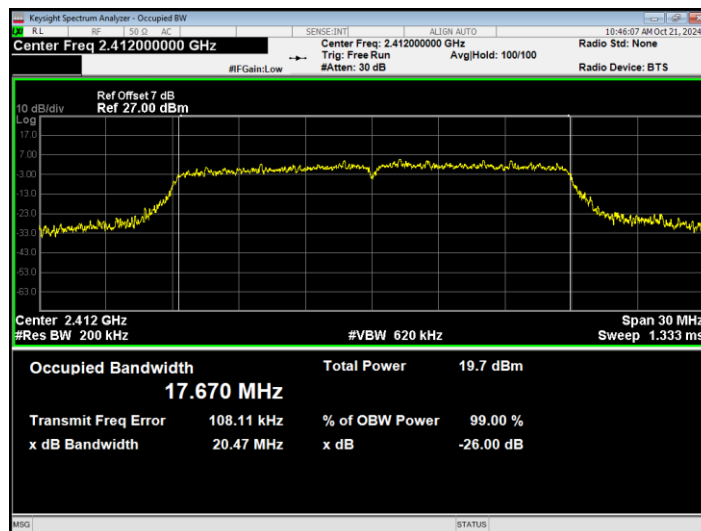
OBW NVNT g 2437MHz Ant1



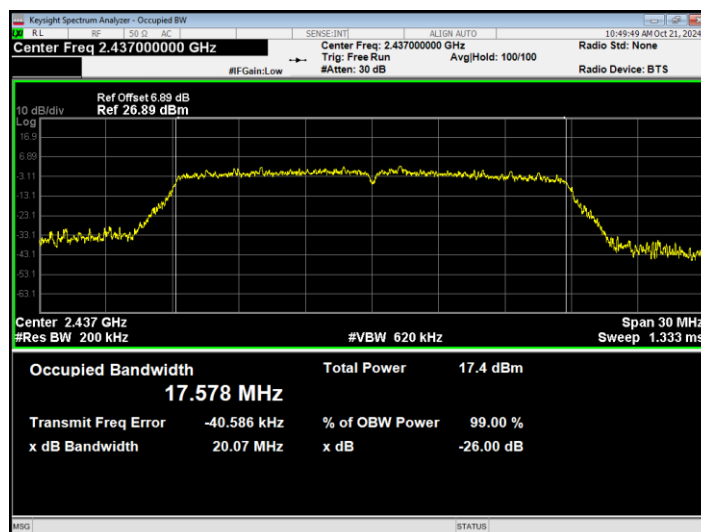
OBW NVNT g 2462MHz Ant1



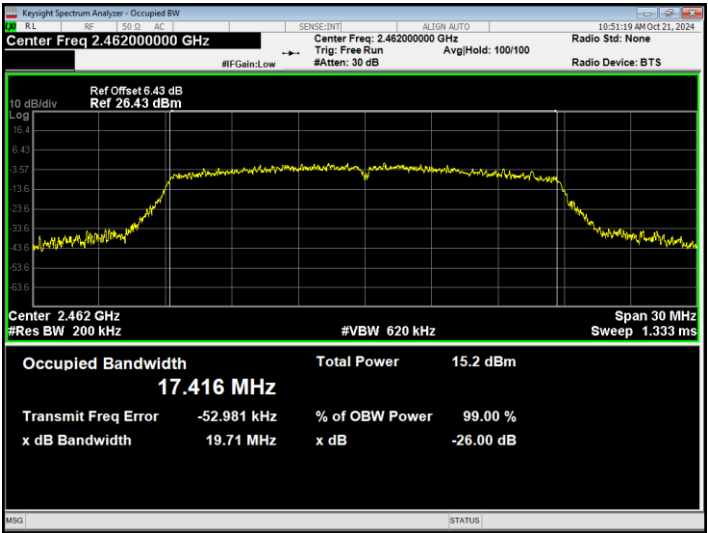
OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



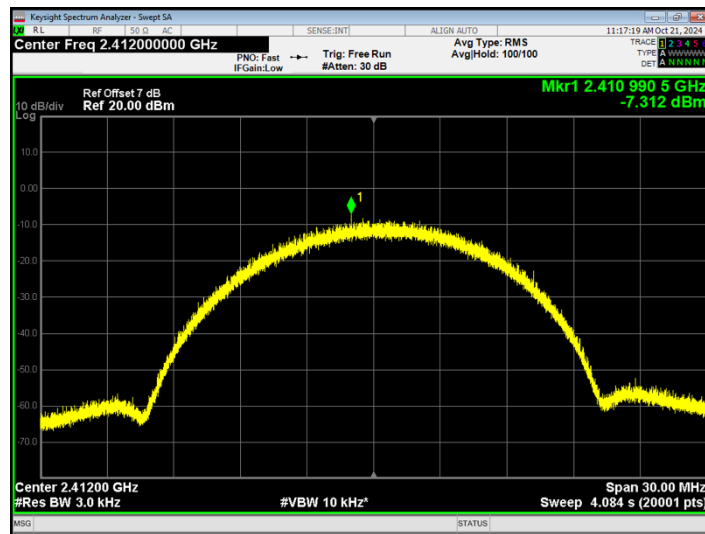
OBW NVNT n20 2462MHz Ant1



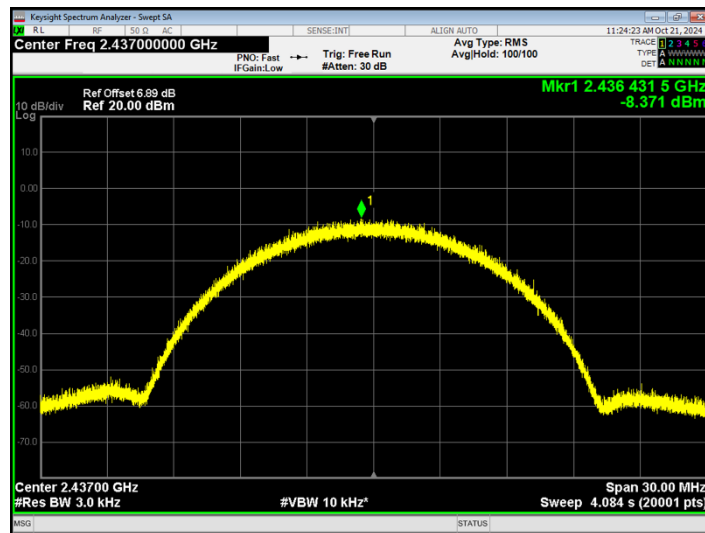
**Maximum Power Spectral Density Level**

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|------------------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -7.312        | 0.14             | -7.172          | 8           | Pass    |
| NVNT      | b    | 2437            | Ant1    | -8.371        | 0.14             | -8.231          | 8           | Pass    |
| NVNT      | b    | 2462            | Ant1    | -9.326        | 0.18             | -9.146          | 8           | Pass    |
| NVNT      | g    | 2412            | Ant1    | -12.426       | 0.87             | -11.556         | 8           | Pass    |
| NVNT      | g    | 2437            | Ant1    | -12.33        | 0.87             | -11.460         | 8           | Pass    |
| NVNT      | g    | 2462            | Ant1    | -14.018       | 0.87             | -13.148         | 8           | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -11.663       | 0.16             | -11.503         | 8           | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -11.979       | 0.13             | -11.849         | 8           | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -14.38        | 0.16             | -14.220         | 8           | Pass    |

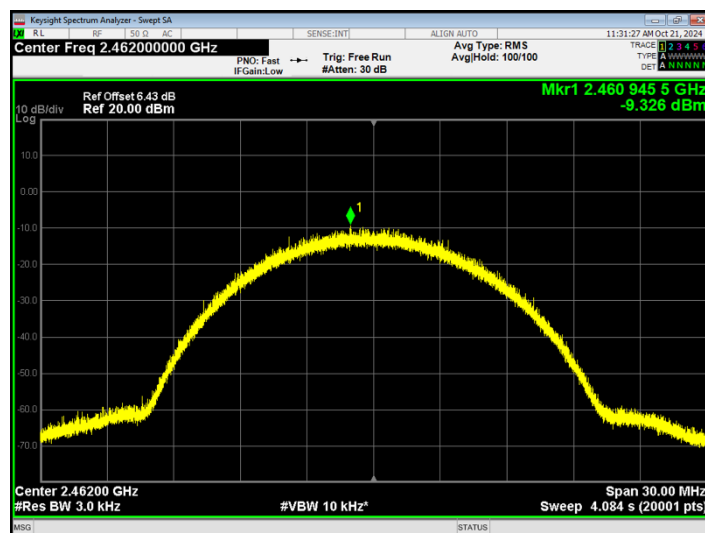
PSD NVNT b 2412MHz Ant1



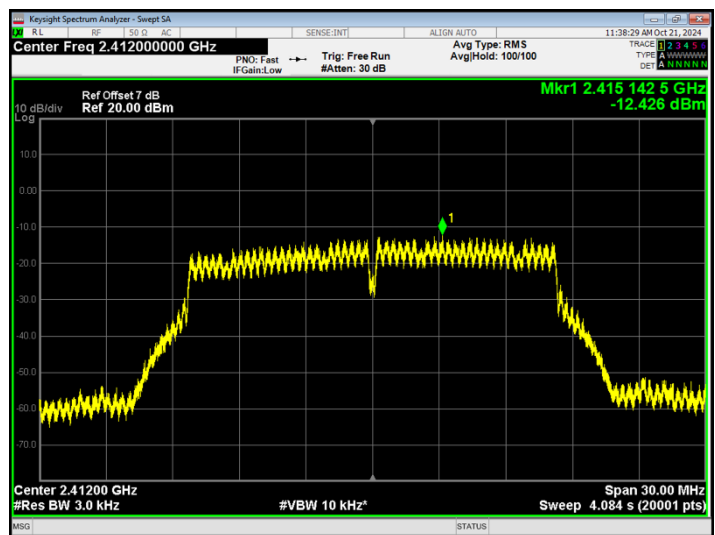
PSD NVNT b 2437MHz Ant1



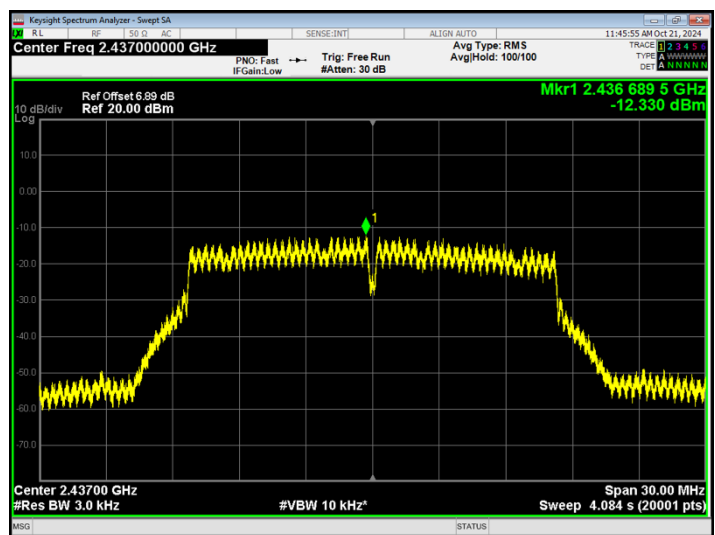
PSD NVNT b 2462MHz Ant1



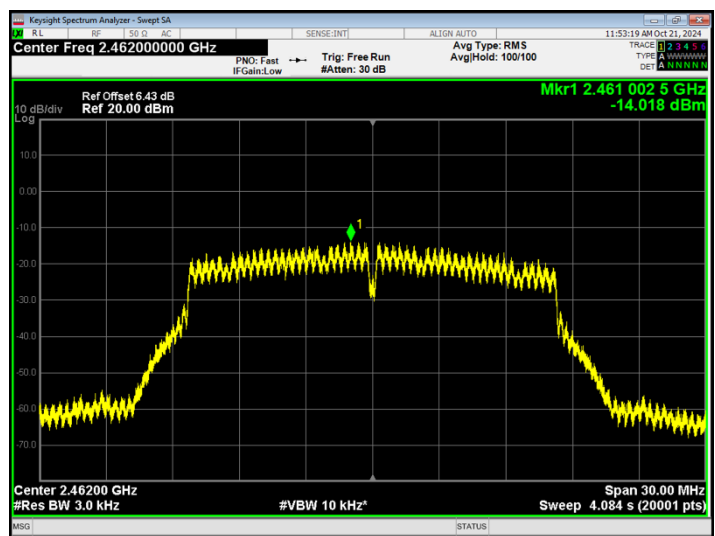
PSD NVNT g 2412MHz Ant1



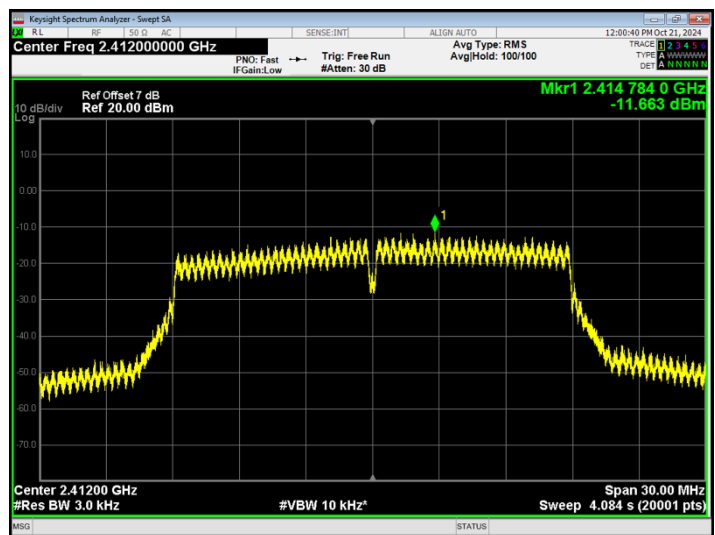
PSD NVNT g 2437MHz Ant1



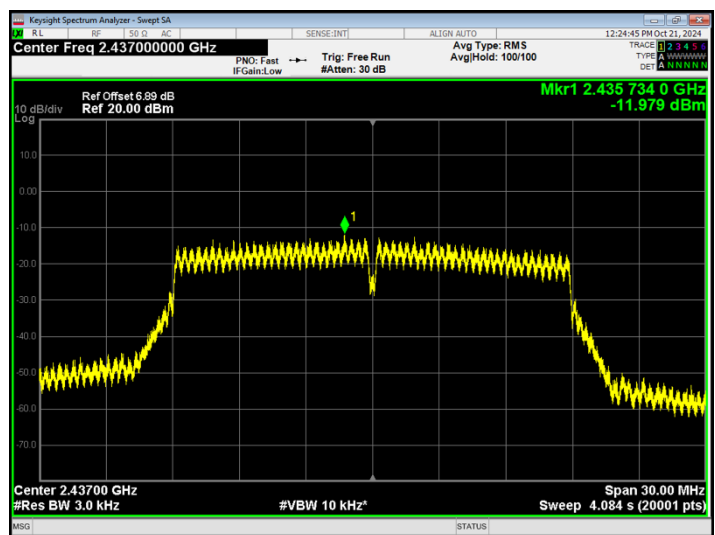
PSD NVNT g 2462MHz Ant1



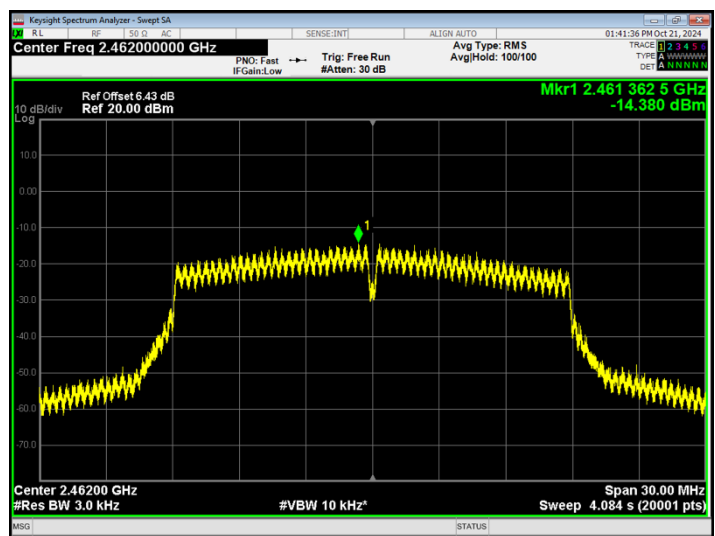
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



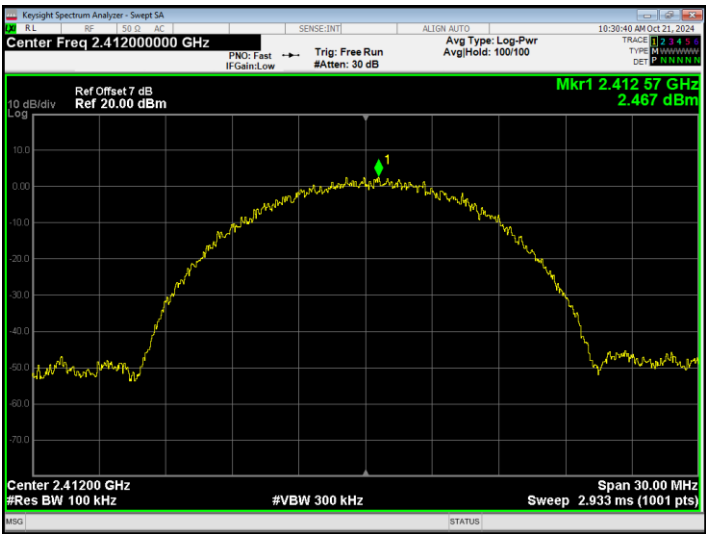
PSD NVNT n20 2462MHz Ant1



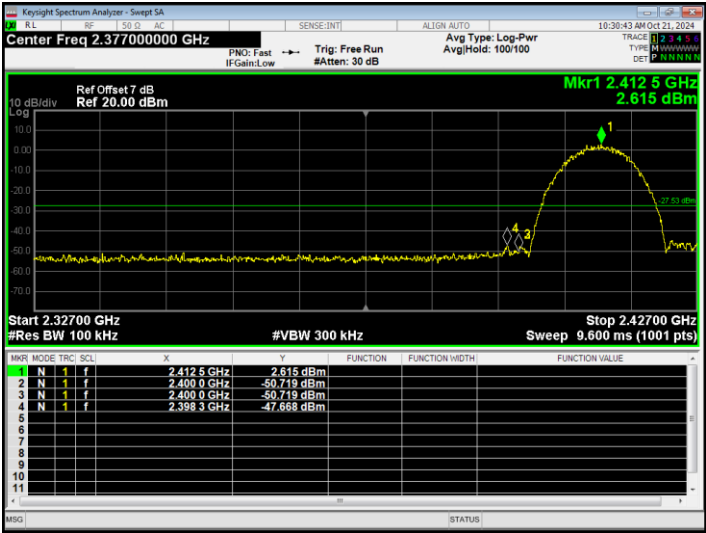
Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -50.13          | -30         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -53.26          | -30         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -42.17          | -30         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -53.3           | -30         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -31.98          | -30         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -50.44          | -30         | Pass    |

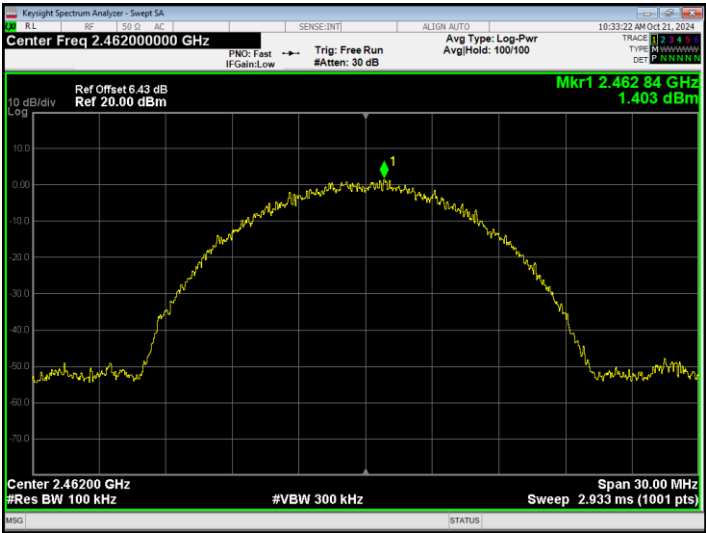
Band Edge NVNT b 2412MHz Ant1 Ref



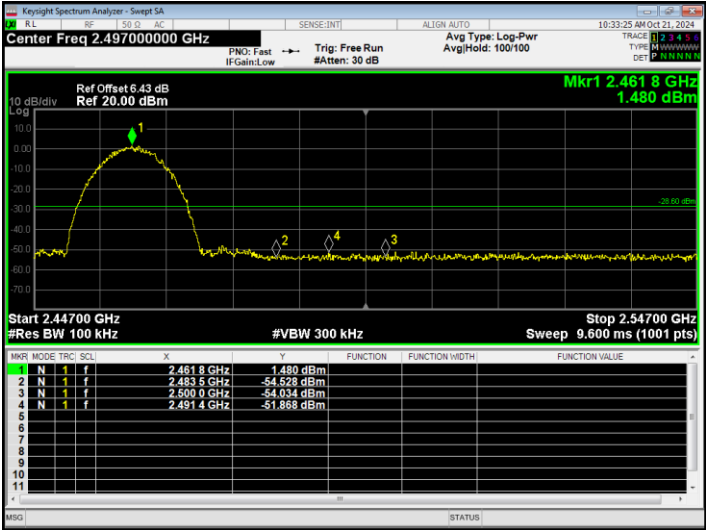
Band Edge NVNT b 2412MHz Ant1 Emission



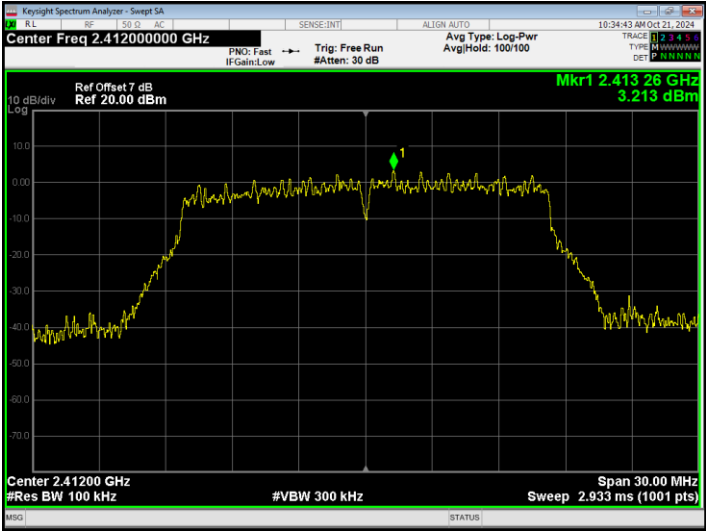
Band Edge NVNT b 2462MHz Ant1 Ref



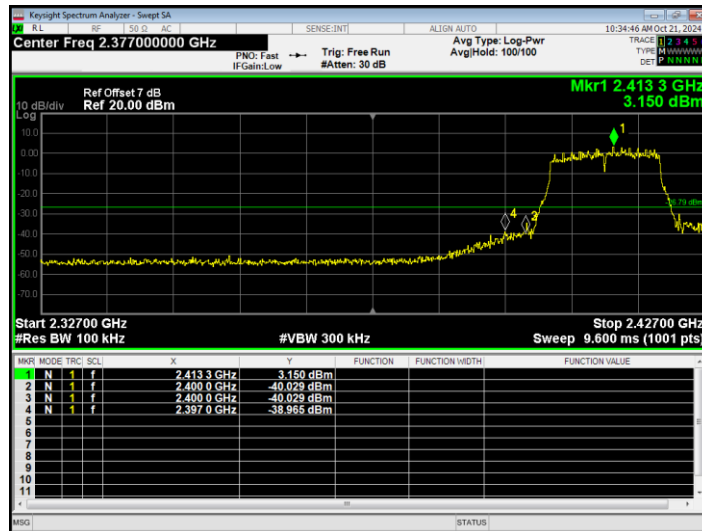
Band Edge NVNT b 2462MHz Ant1 Emission



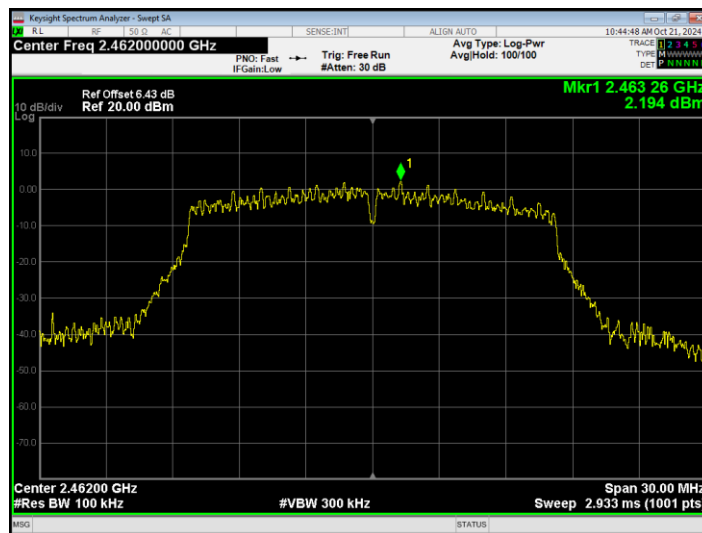
Band Edge NVNT g 2412MHz Ant1 Ref



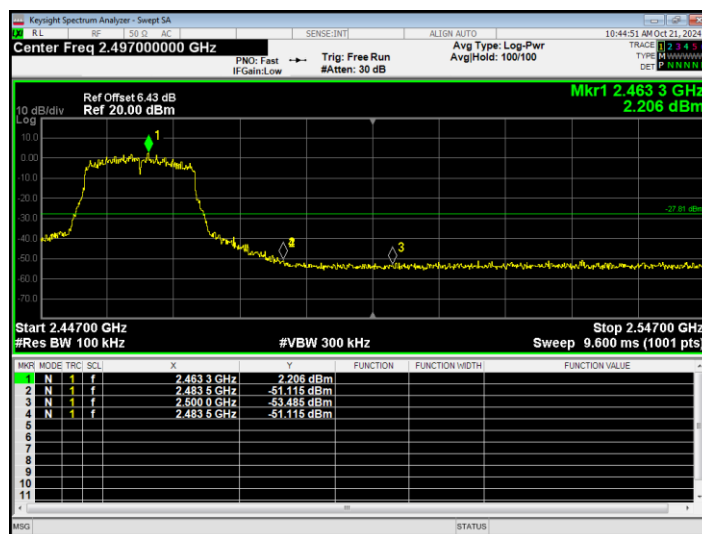
Band Edge NVNT g 2412MHz Ant1 Emission



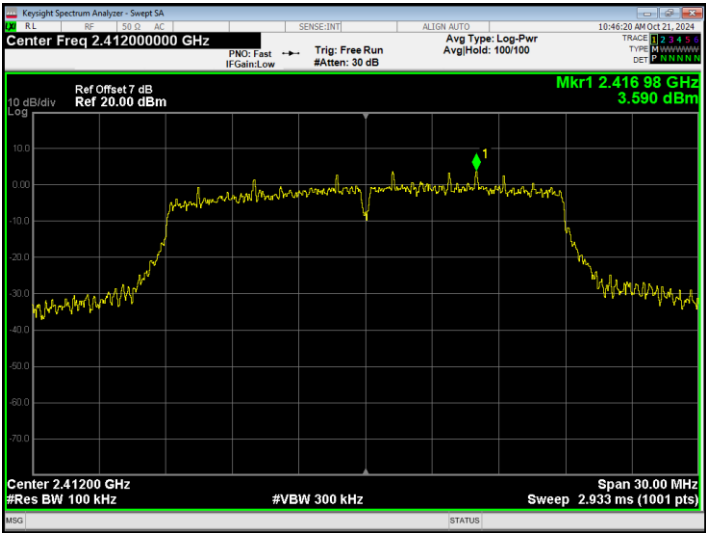
Band Edge NVNT g 2462MHz Ant1 Ref



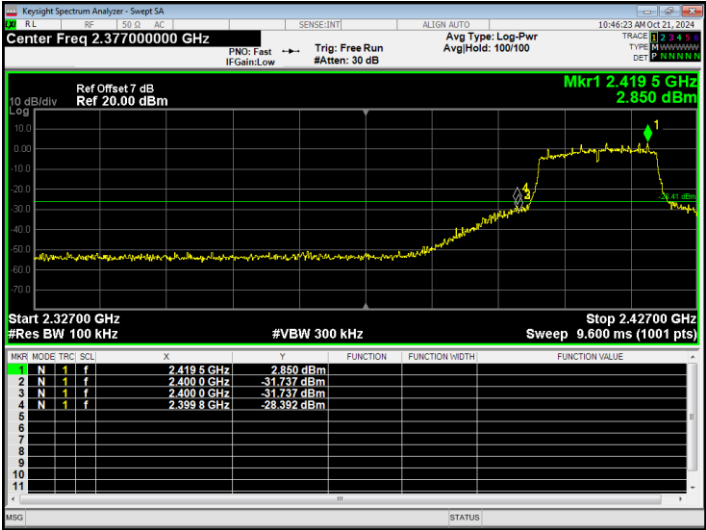
Band Edge NVNT g 2462MHz Ant1 Emission



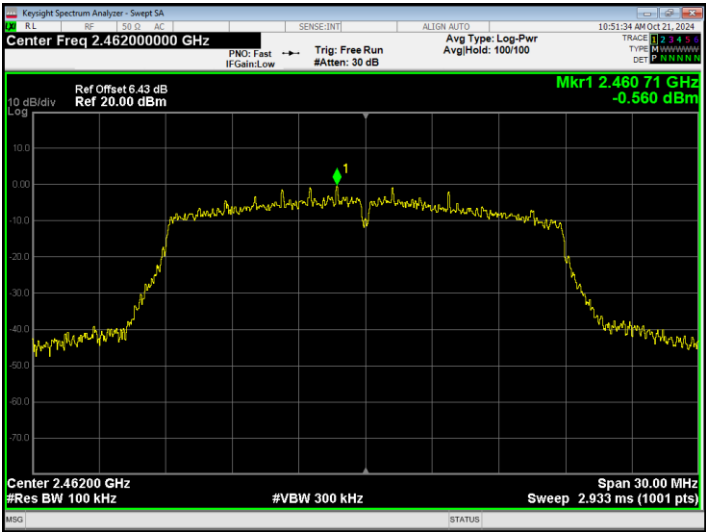
Band Edge NVNT n20 2412MHz Ant1 Ref



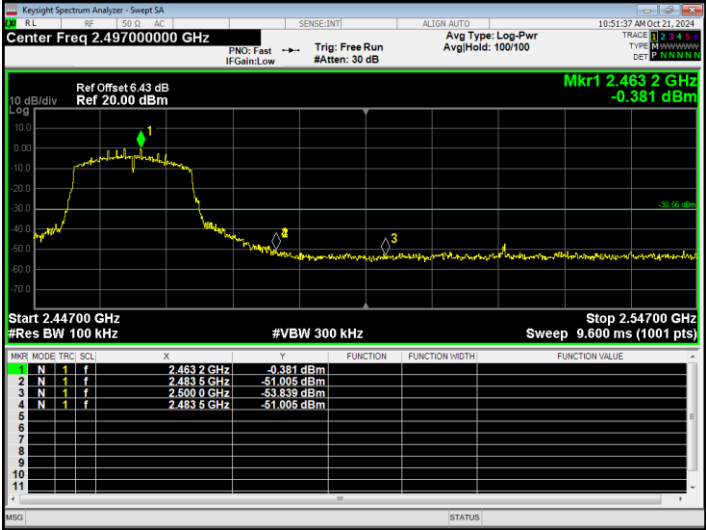
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



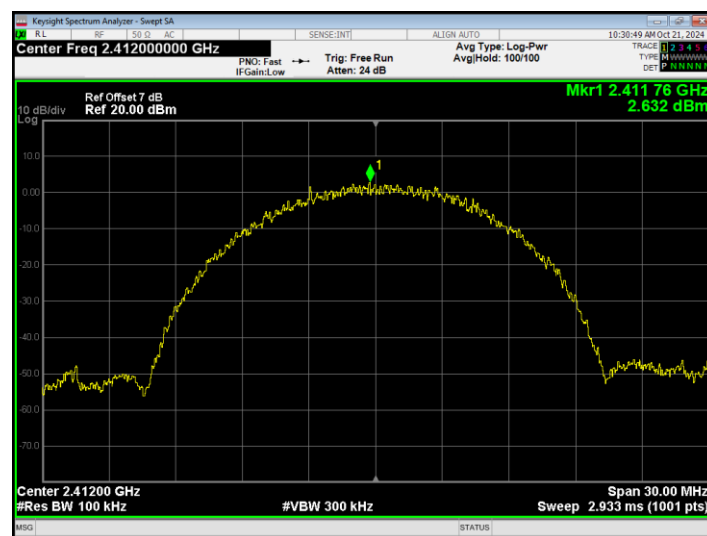
Band Edge NVNT n20 2462MHz Ant1 Emission



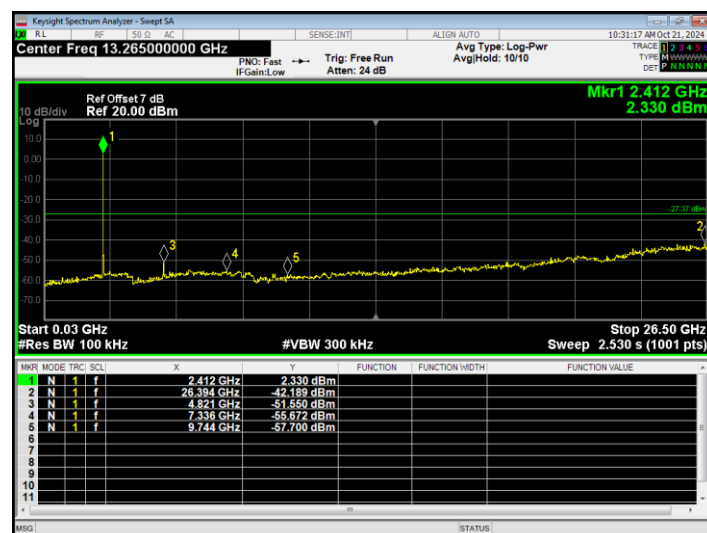
## Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -44.81          | -30         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -44.69          | -30         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -43.95          | -30         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.79          | -30         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -46.59          | -30         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -45.13          | -30         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -46.09          | -30         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -43.31          | -30         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -41.97          | -30         | Pass    |

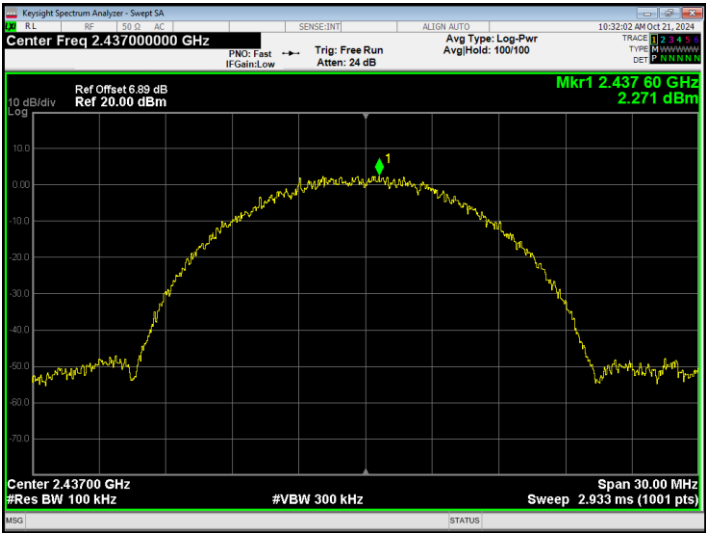
Tx. Spurious NVNT b 2412MHz Ant1 Ref



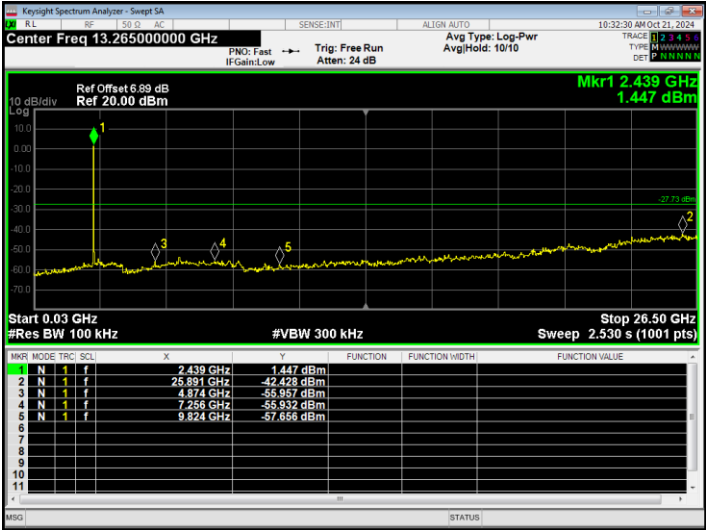
Tx. Spurious NVNT b 2412MHz Ant1 Emission



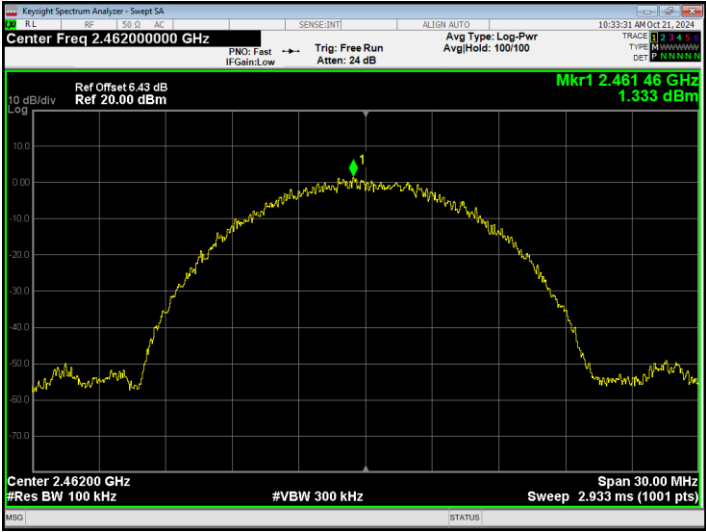
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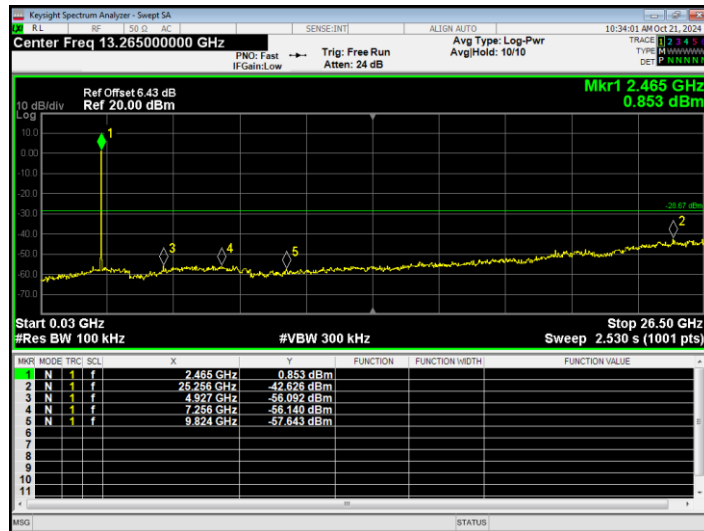
Tx. Spurious NVNT b 2437MHz Ant1 Emission



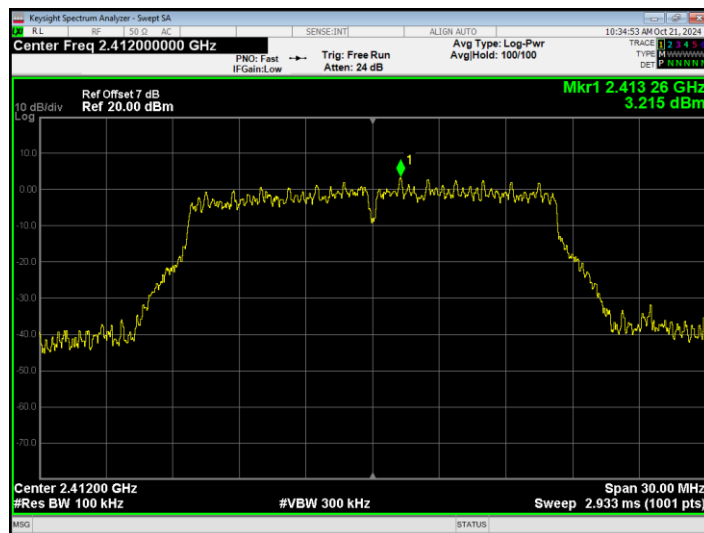
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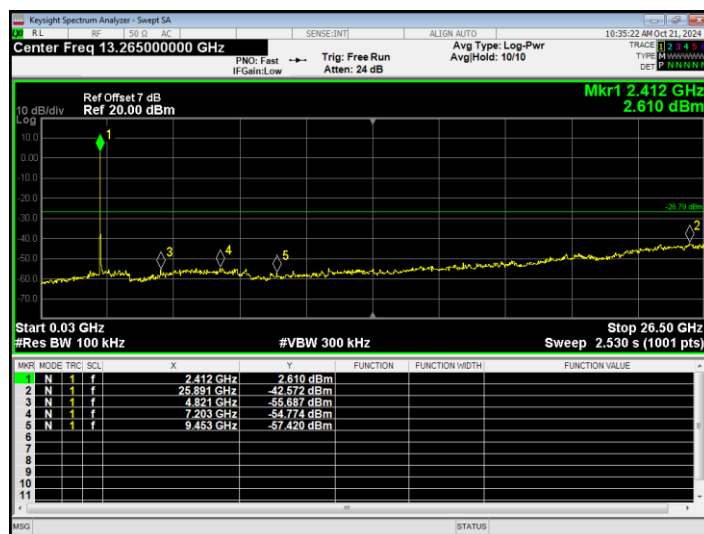
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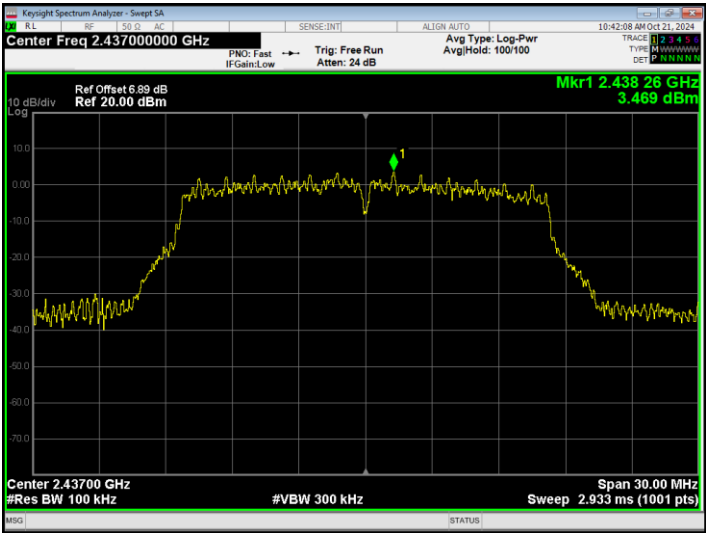
Tx. Spurious NVNT g 2412MHz Ant1 Ref



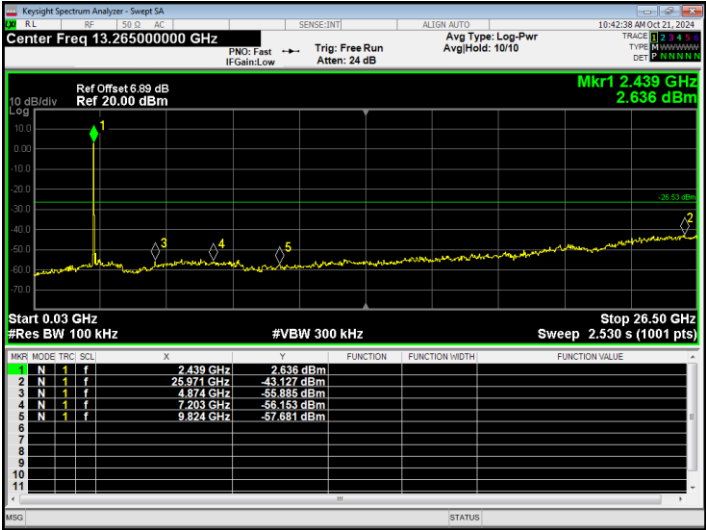
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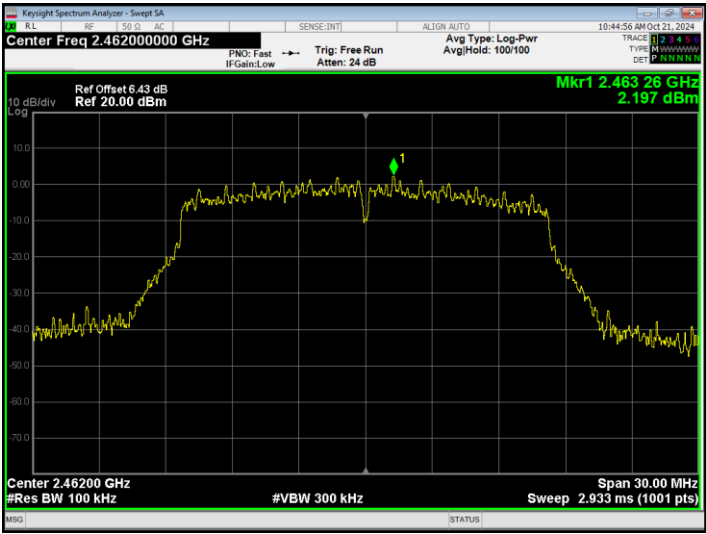
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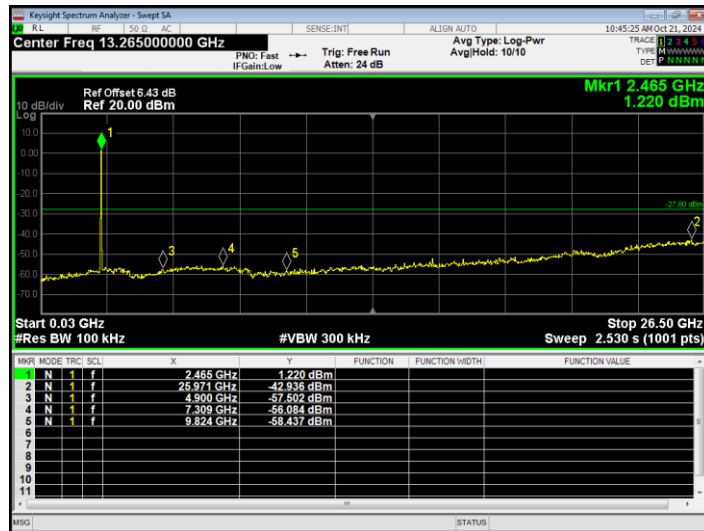
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Tx. Spurious NVNT g 2462MHz Ant1 Ref



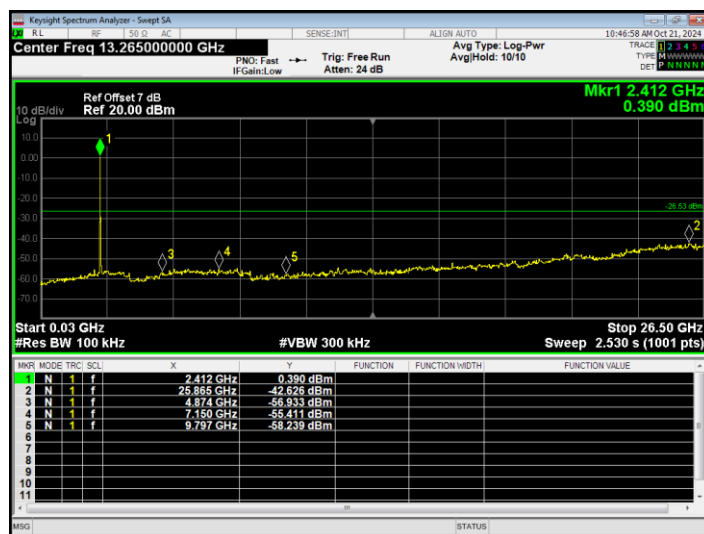
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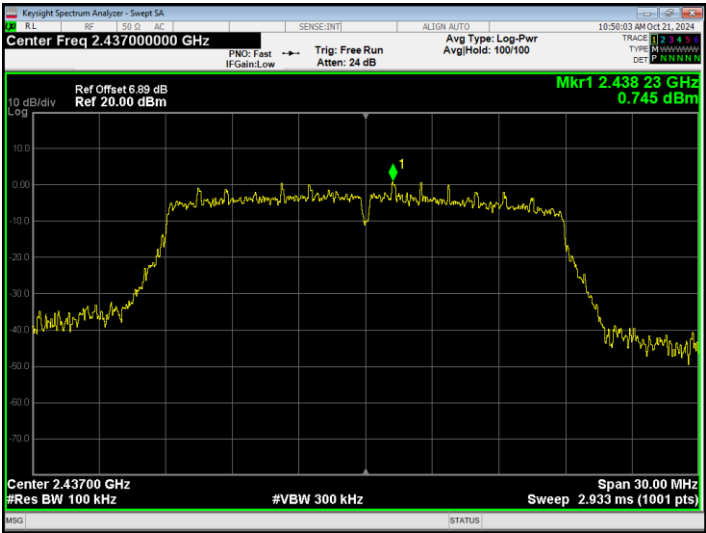
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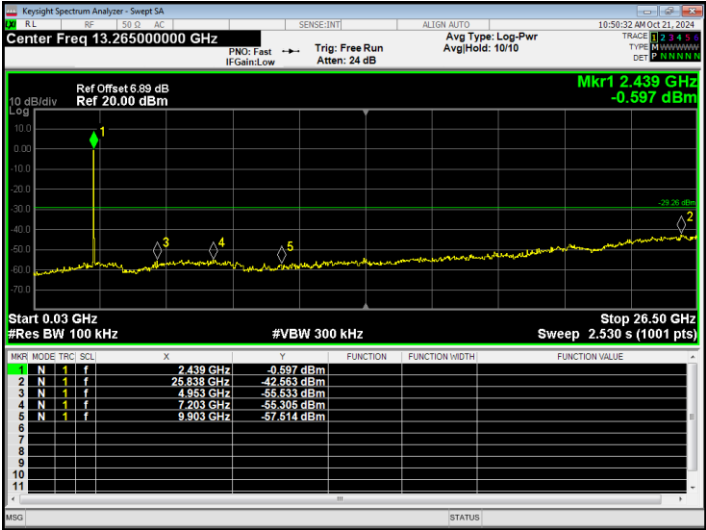
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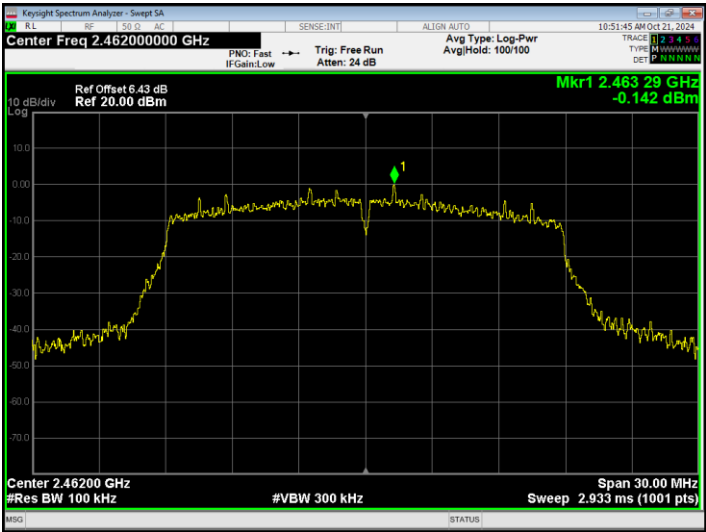
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

