# ANNEX 1 TEST DATA

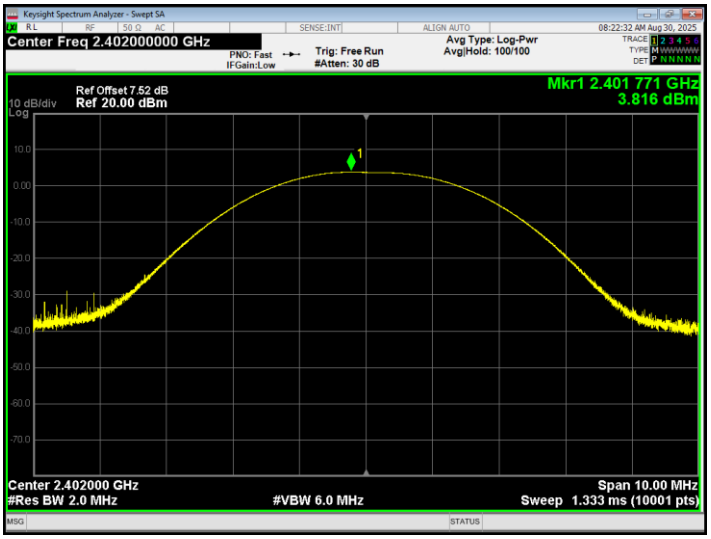
## FCC ID: 2BR3I-FS210P

| | |
|---|---|
| Applicant: | Hunan Chuangke Photoelectric Co. LTD |
| Address: | No.9 Factory Building, Electronic Information Manufacturing Base, No.199, Aviation Road, Wangcheng District, Changsha city, Hunan Province |
| Manufacturer: | Hunan Chuangke Photoelectric Co. LTD |
| Address: | No.9 Factory Building, Electronic Information Manufacturing Base, No.199, Aviation Road, Wangcheng District, Changsha city, Hunan Province |
| Product Name: | Projector |
| Trade Mark: | N/A |
| Model Number: | FS210P<br>O1, O1Pro, O1Max, P10 |
| Date of Receipt: | Aug. 13, 2025 |
| Test Date: | Aug. 13, 2025 - Sep. 10, 2025 |
| Date of Report: | Sep. 10, 2025 |
| Prepared By: | Shenzhen DL Testing Technology Co., Ltd. |
| Address: | 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China |
| Applicable Standards: | FCC PART 15 C 15.247<br>ANSI C63.10-2020 |
| Test Result: | Pass |

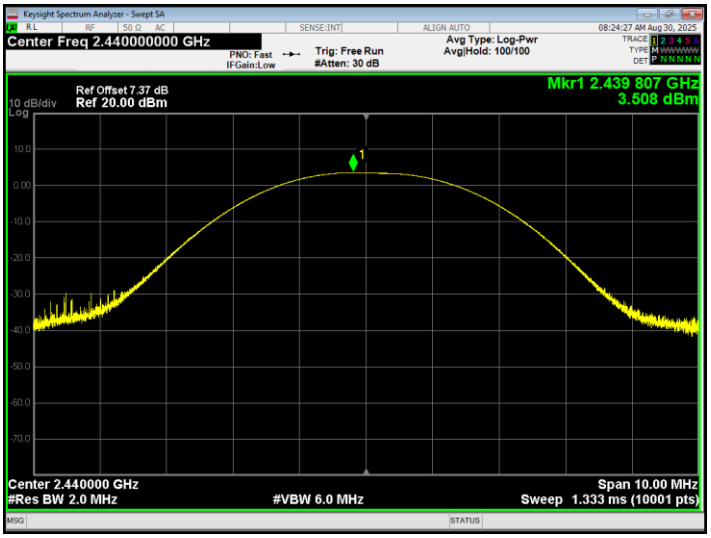
## 1. Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | 3.816 | 30 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | 3.508 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 1.646 | 30 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | 3.86 | 30 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | 3.754 | 30 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 1.871 | 30 | Pass |

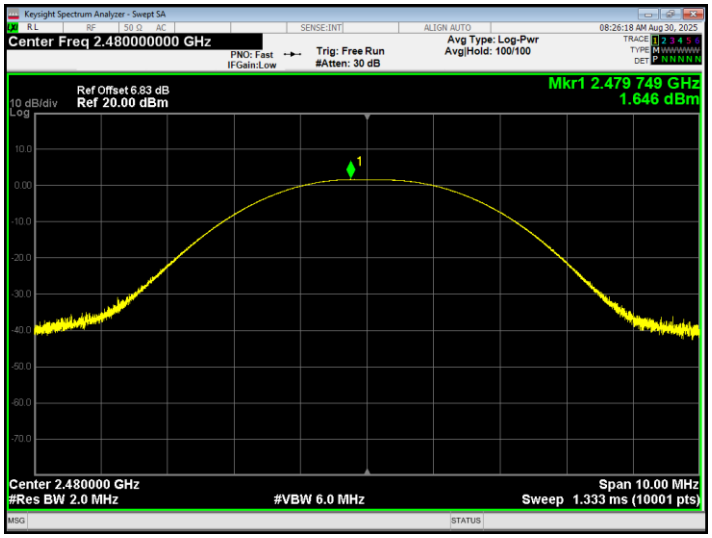
Power NVNT BLE 1M 2402MHz Ant1



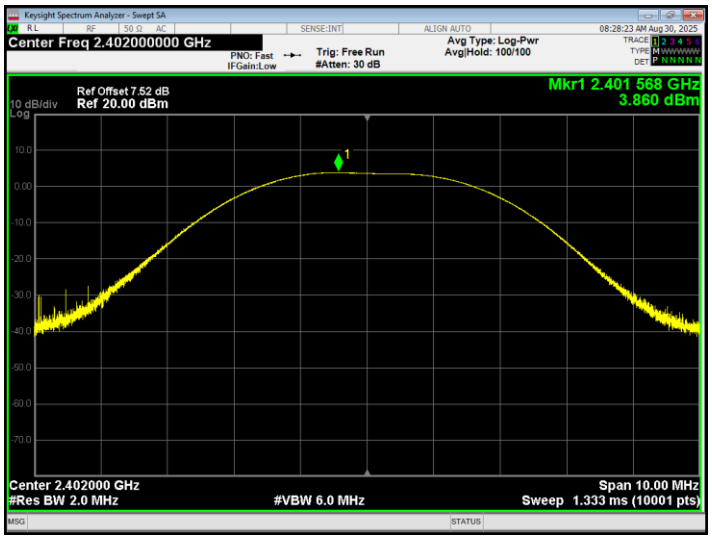

Power NVNT BLE 1M 2440MHz Ant1



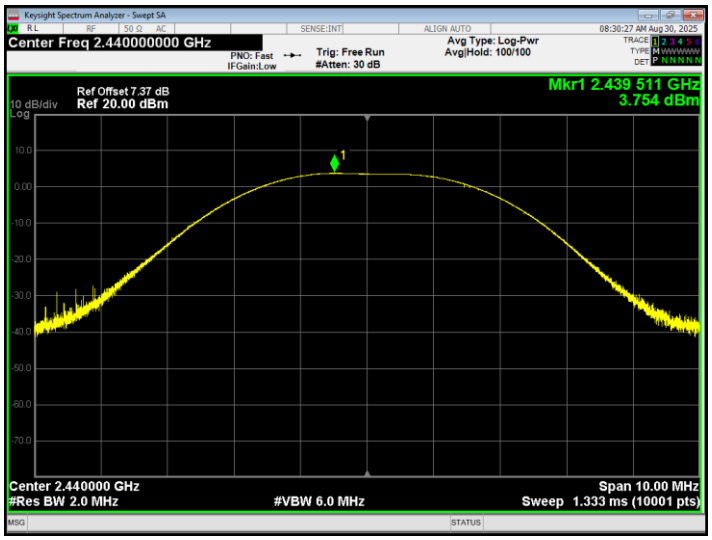
Power NVNT BLE 1M 2480MHz Ant1



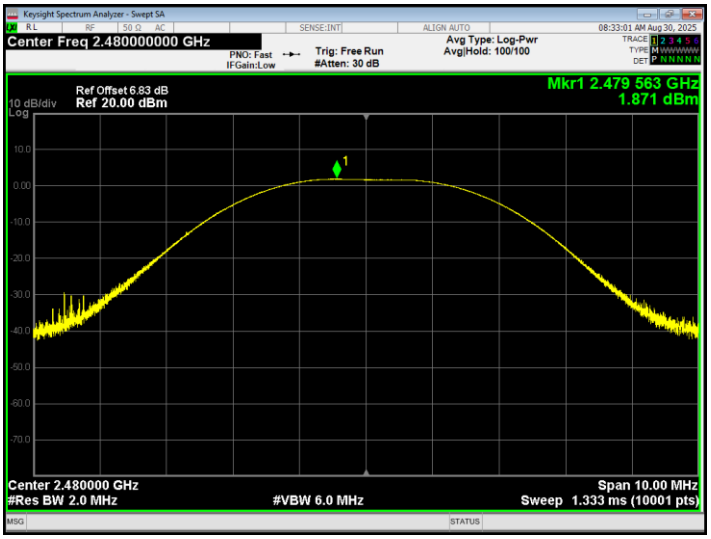

Power NVNT BLE 2M 2402MHz Ant1




Power NVNT BLE 2M 2440MHz Ant1



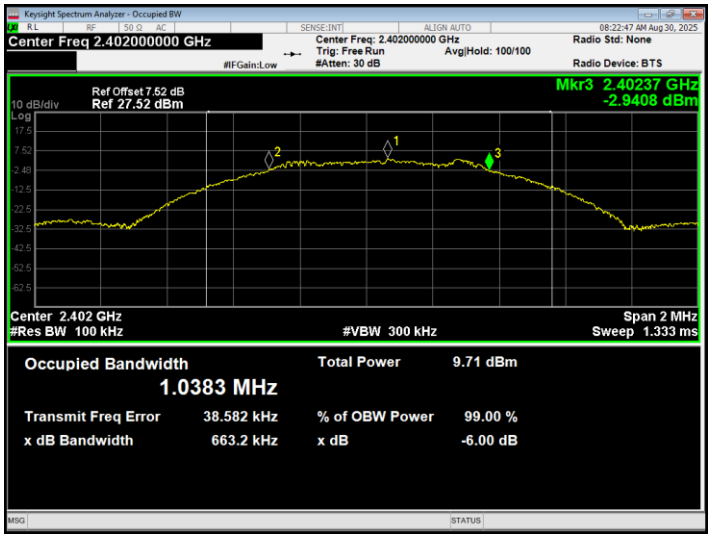

Power NVNT BLE 2M 2480MHz Ant1


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
08:33:01 AM Aug 30, 2025
Ref Offset 6.83 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.479 563 GHz
1.871 dBm
Center 2.480000 GHz
#Res BW 2.0 MHz
#VBW 6.0 MHz
Span 10.00 MHz
Sweep 1.333 ms (10001 pts)

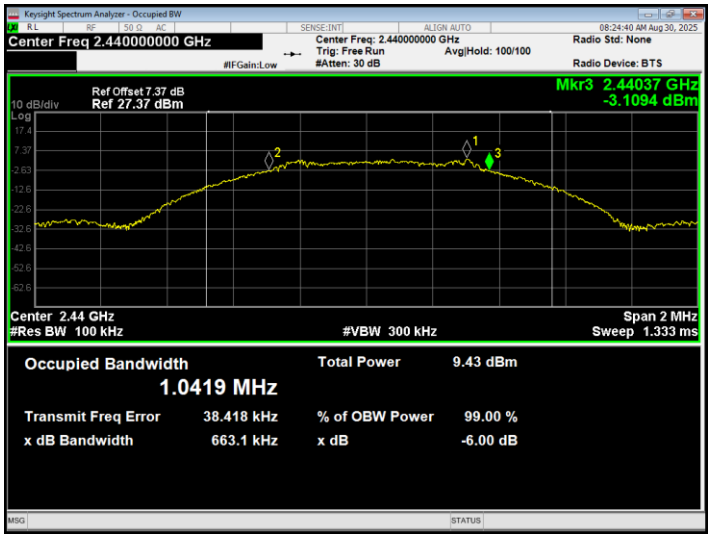
## 2. -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | 0.663 | 0.5 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | 0.663 | 0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 0.649 | 0.5 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | 1.25 | 0.5 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | 1.123 | 0.5 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 1.203 | 0.5 | Pass |

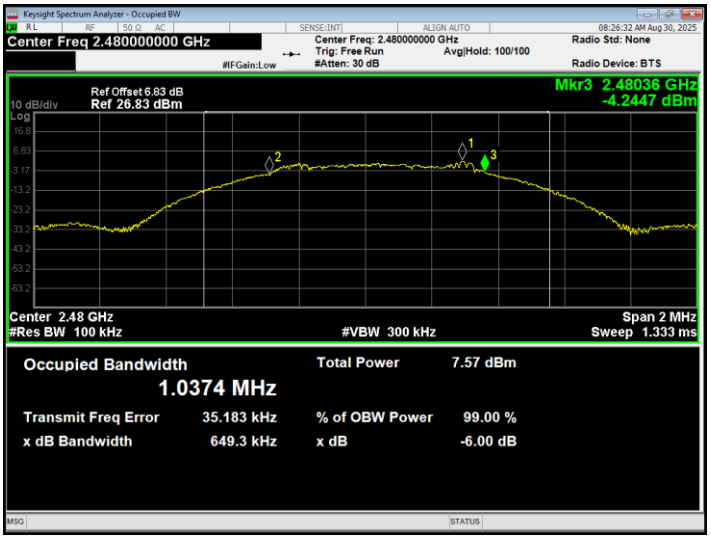
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



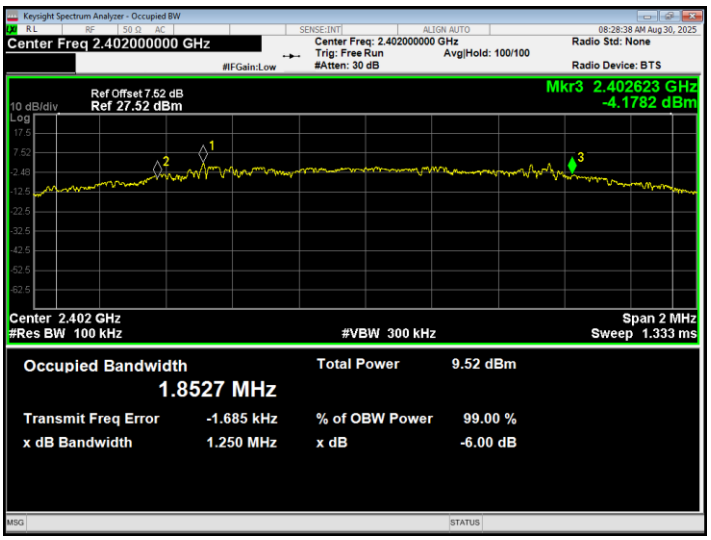

-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



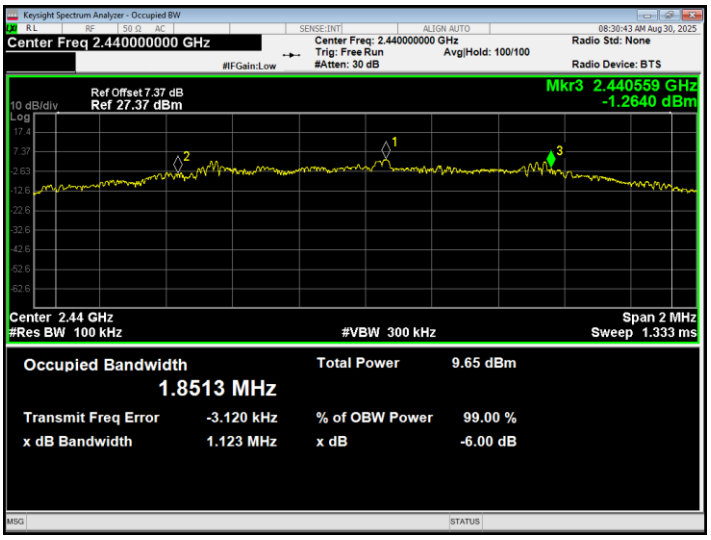

-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



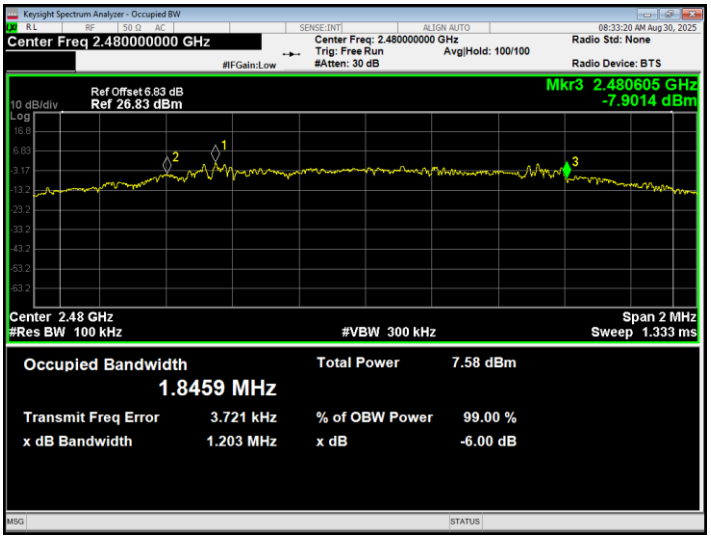

-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1




-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



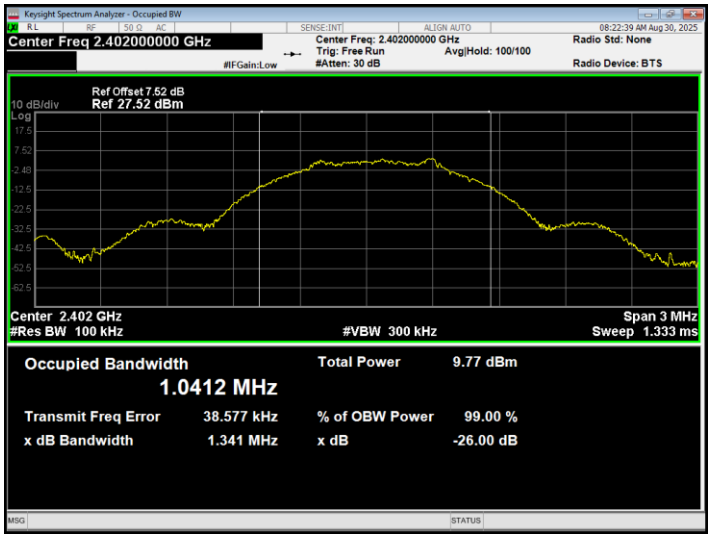

-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:33:20 AM Aug 30, 2025
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Ref Offset 6.83 dB
10 dB/div
Ref 26.83 dBm
Log
16.8
6.83
-3.17
-13.2
-23.2
-33.2
-43.2
-53.2
-63.2
Mkr3 2.480605 GHz
-7.9014 dBm
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 2 MHz
Sweep 1.333 ms
Occupied Bandwidth
1.8459 MHz
Total Power
7.58 dBm
Transmit Freq Error
3.721 kHz
% of OBW Power
99.00 %
x dB Bandwidth
1.203 MHz
x dB
-6.00 dB
MSG
STATUS

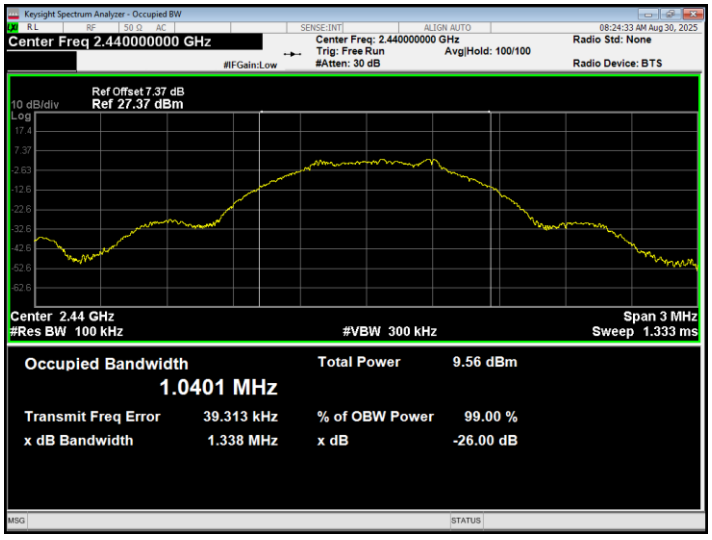
## 3. Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | 1.041225978 |
| NVNT | BLE 1M | 2440 | Ant1 | 1.040128491 |
| NVNT | BLE 1M | 2480 | Ant1 | 1.0393732 |
| NVNT | BLE 2M | 2402 | Ant1 | 2.057583811 |
| NVNT | BLE 2M | 2440 | Ant1 | 2.033091289 |
| NVNT | BLE 2M | 2480 | Ant1 | 2.053565991 |

OBW NVNT BLE 1M 2402MHz Ant1

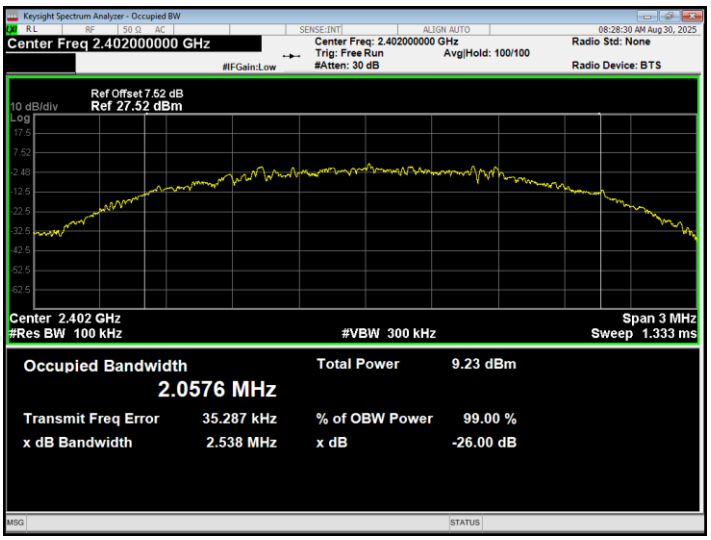



OBW NVNT BLE 1M 2440MHz Ant1

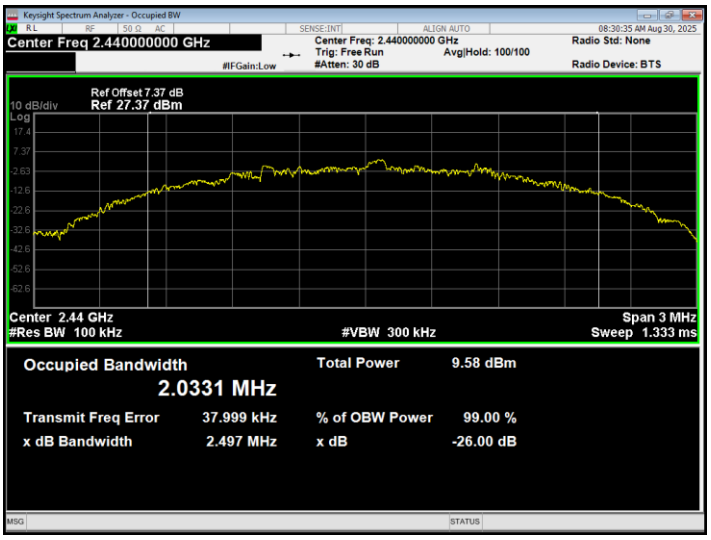



OBW NVNT BLE 1M 2480MHz Ant1

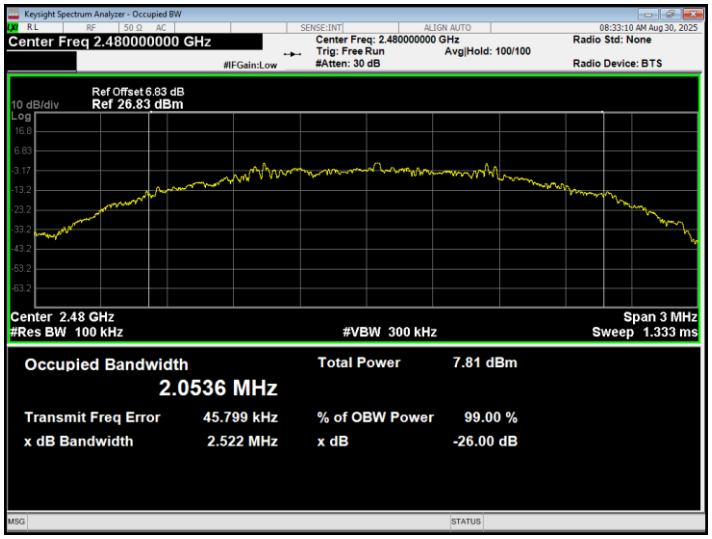

OBW NVNT BLE 2M 2402MHz Ant1




OBW NVNT BLE 2M 2440MHz Ant1



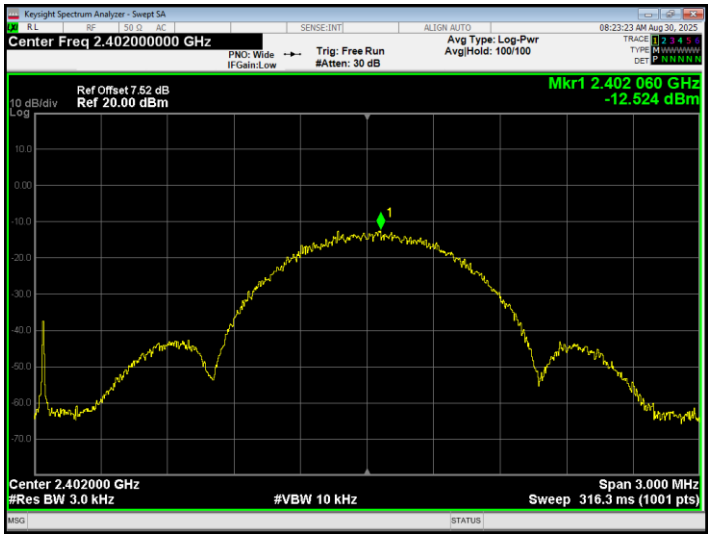

OBW NVNT BLE 2M 2480MHz Ant1


Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
08:33:10 AM Aug 30, 2025
Ref Offset 6.83 dB
10 dB/div
Ref 26.83 dBm
Log
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 3 MHz
Sweep 1.333 ms
Occupied Bandwidth
2.0536 MHz
Total Power
7.81 dBm
Transmit Freq Error
45.799 kHz
% of OBW Power
99.00 %
x dB Bandwidth
2.522 MHz
x dB
-26.00 dB
MSG
STATUS

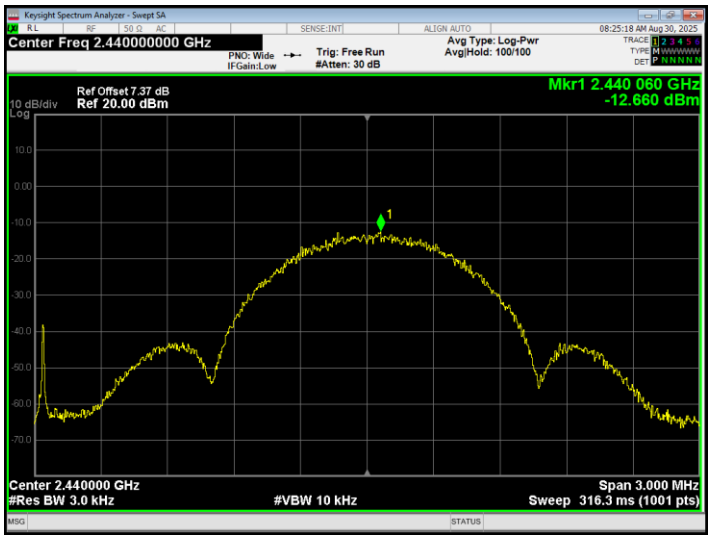
## 4. Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | -12.524 | 8 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -12.66 | 8 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -14.484 | 8 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | -14.5 | 8 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | -14.574 | 8 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -16.495 | 8 | Pass |

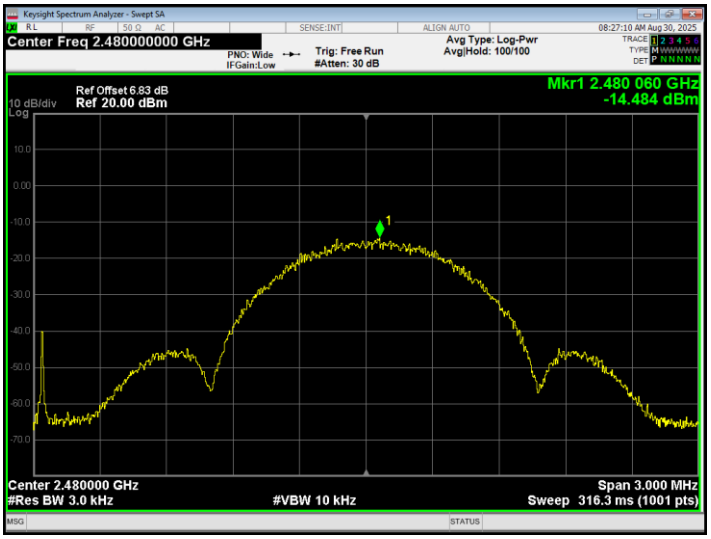
PSD NVNT BLE 1M 2402MHz Ant1



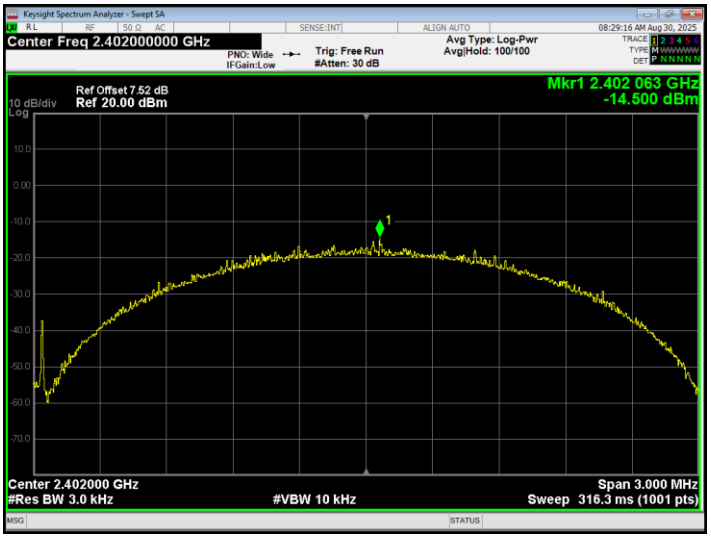

PSD NVNT BLE 1M 2440MHz Ant1



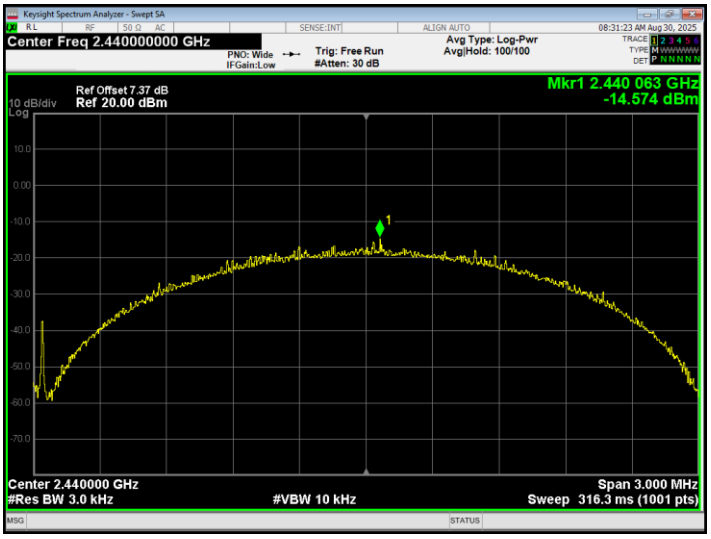

PSD NVNT BLE 1M 2480MHz Ant1



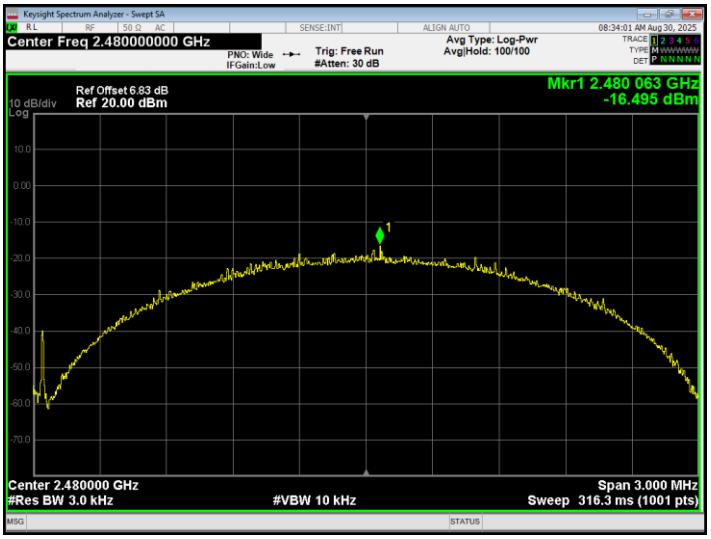

PSD NVNT BLE 2M 2402MHz Ant1




PSD NVNT BLE 2M 2440MHz Ant1



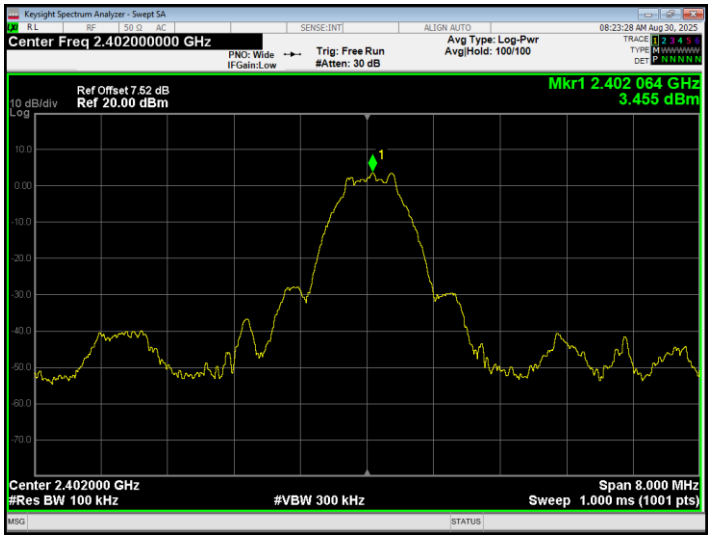

PSD NVNT BLE 2M 2480MHz Ant1


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
08:34:01 AM Aug 30, 2025
Ref Offset 6.83 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.480 063 GHz
-16.495 dBm
Center 2.480000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 3.000 MHz
Sweep 316.3 ms (1001 pts)

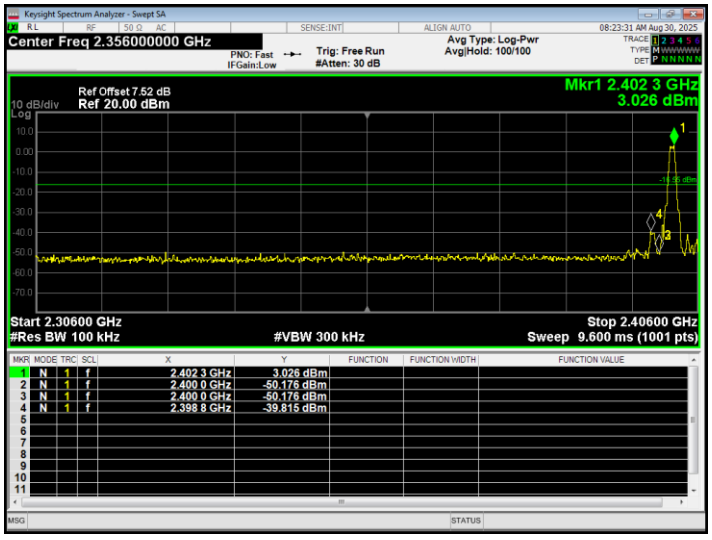
## 5. Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | -43.27 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -45.73 | -20 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | -34.65 | -20 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -47.66 | -20 | Pass |

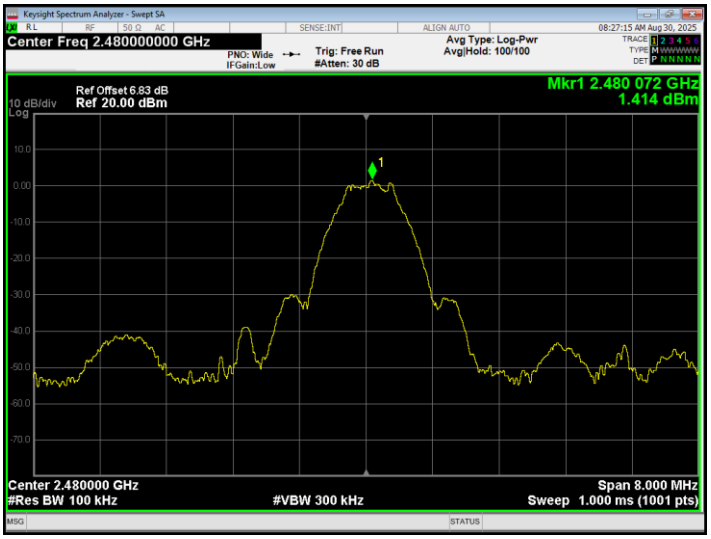
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



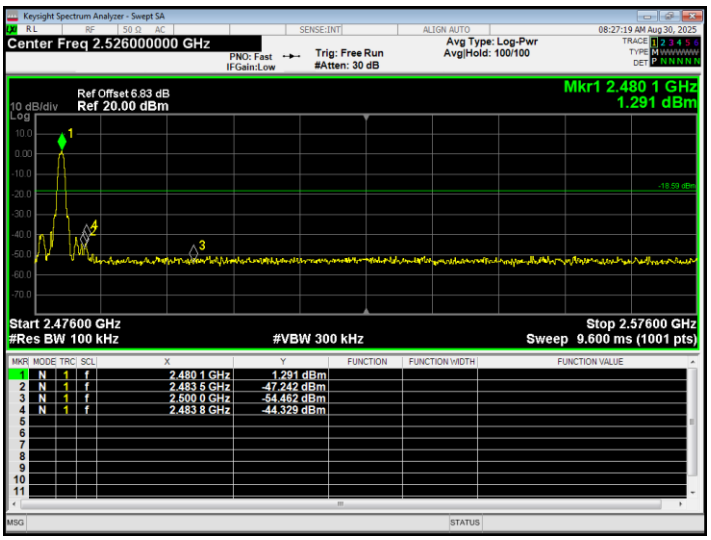

Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



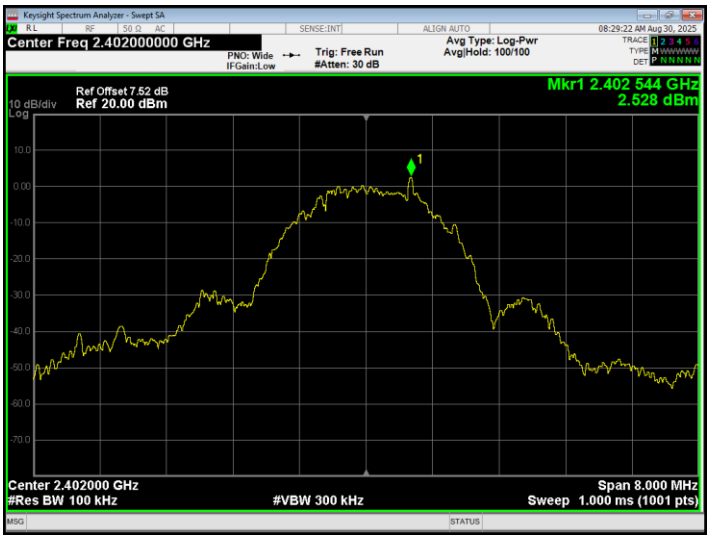

Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



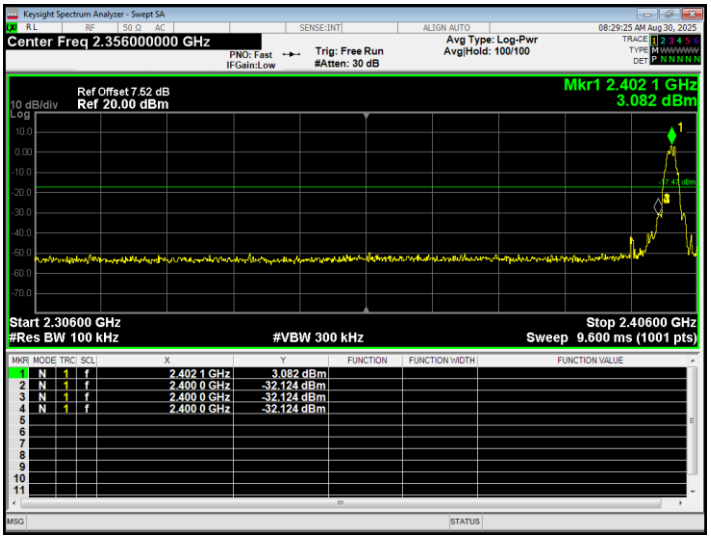

Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



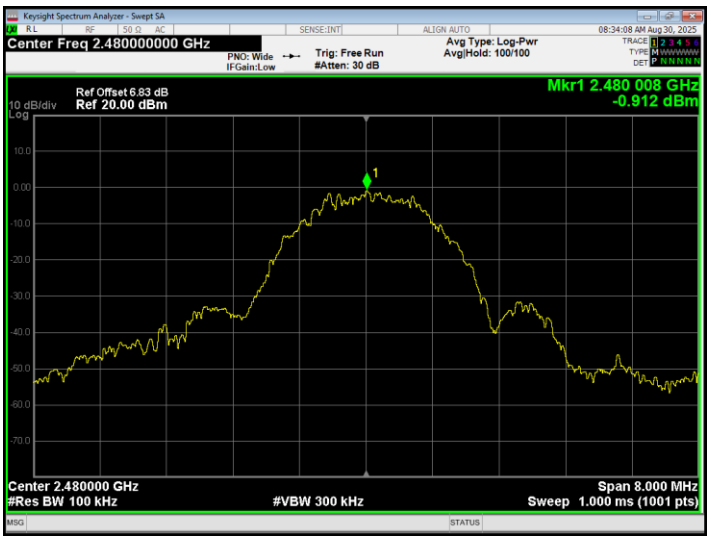

Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



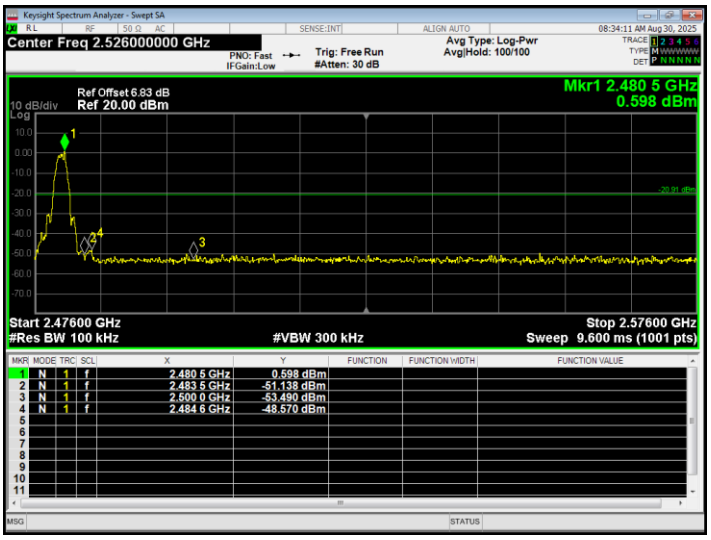

Band Edge NVNT BLE 2M 2402MHz Ant1 Emission




Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



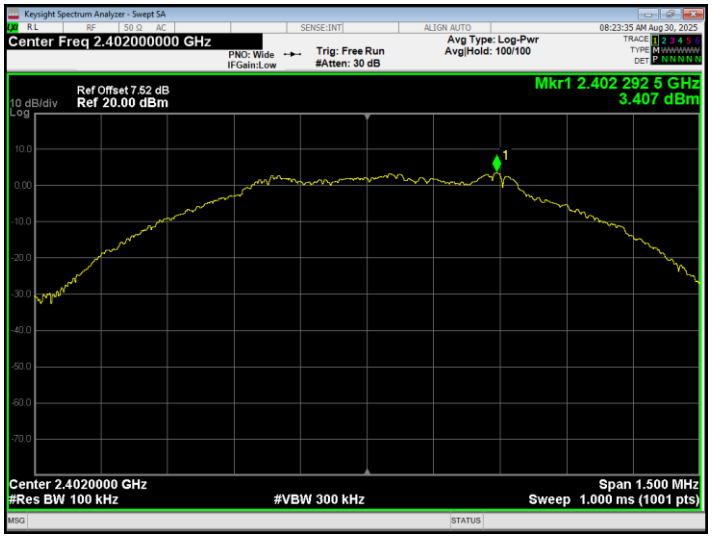

Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



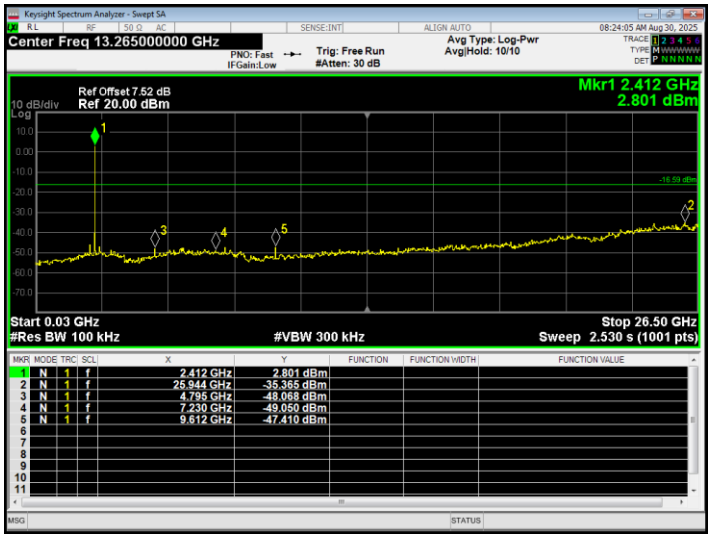
## 6. Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | -38.77 | -20 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -38.48 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -37.78 | -20 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | -38.74 | -20 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | -38.93 | -20 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -37.65 | -20 | Pass |

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

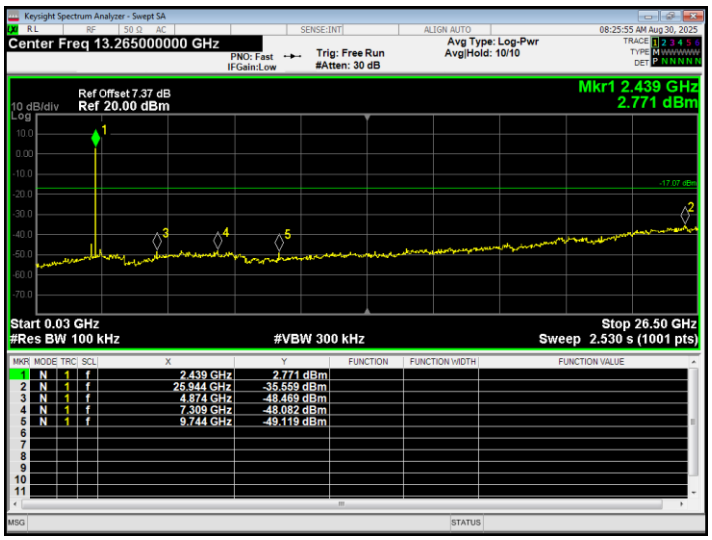



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

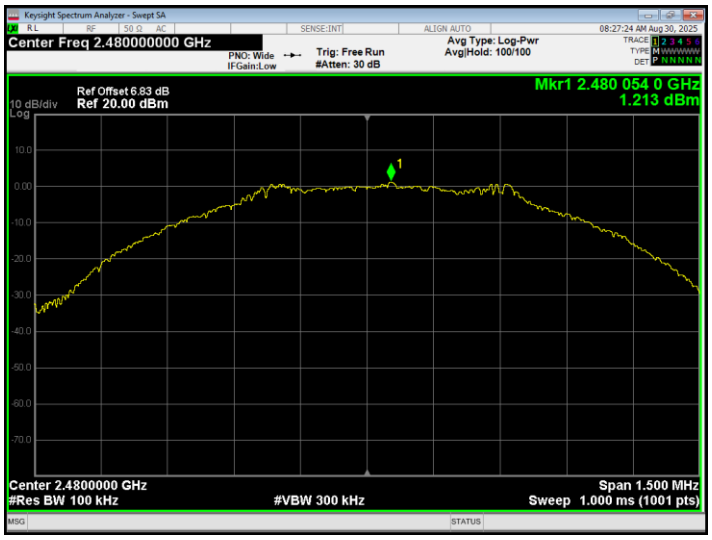



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

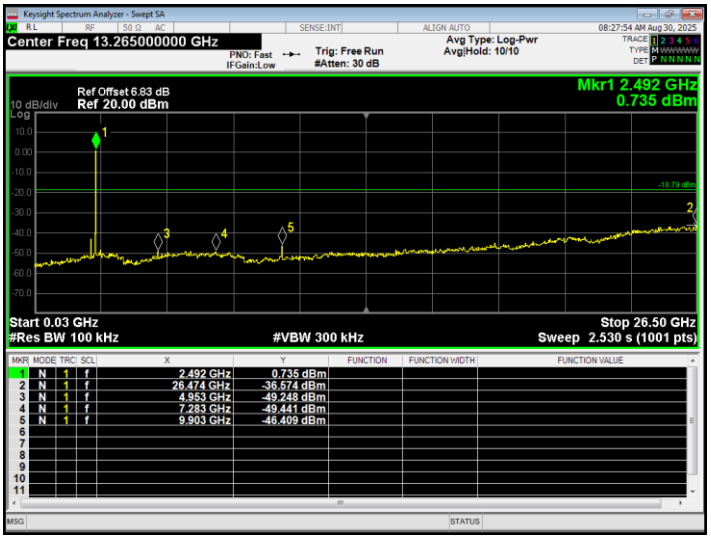

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



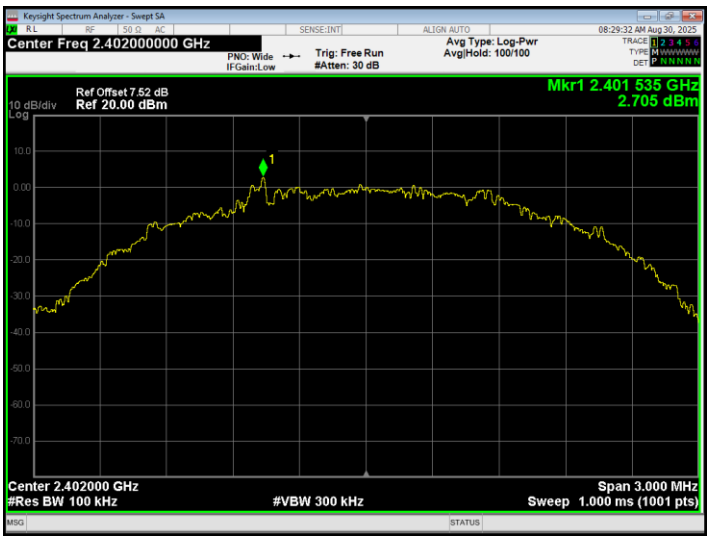

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



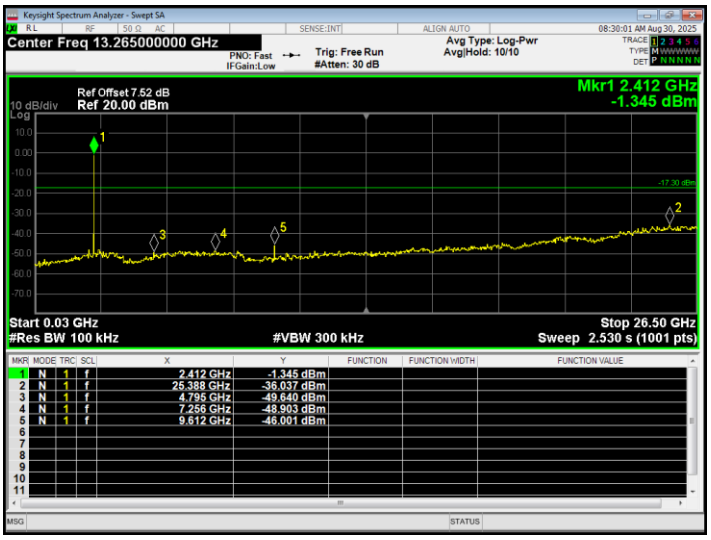

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



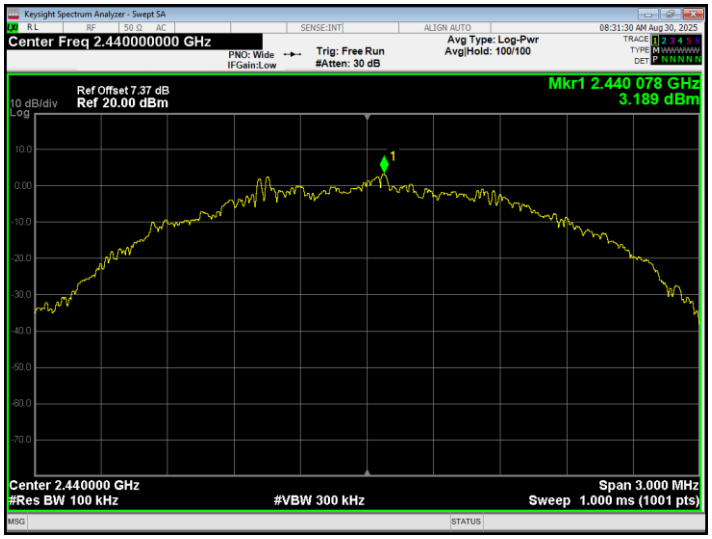

Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



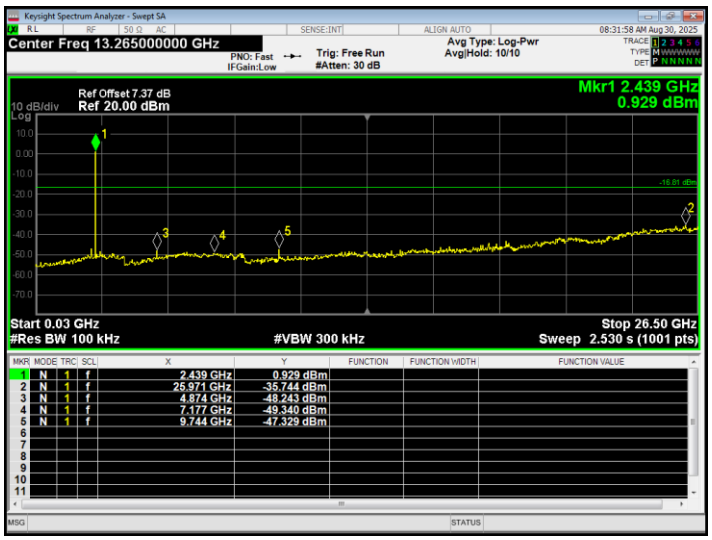

Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



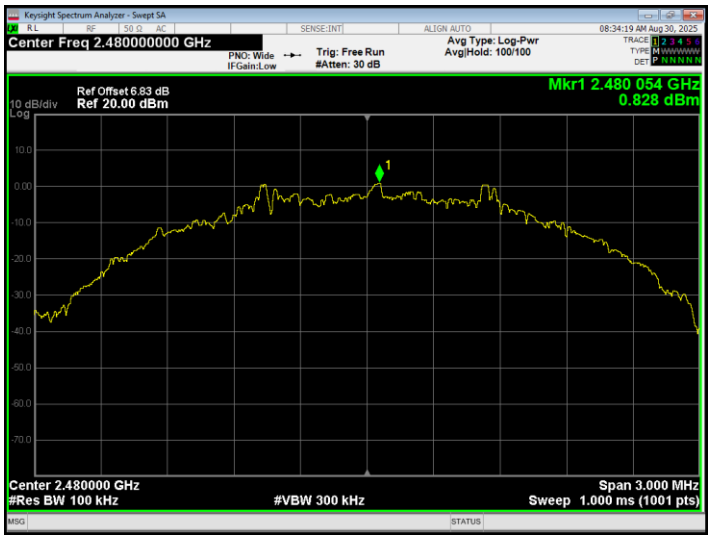

Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



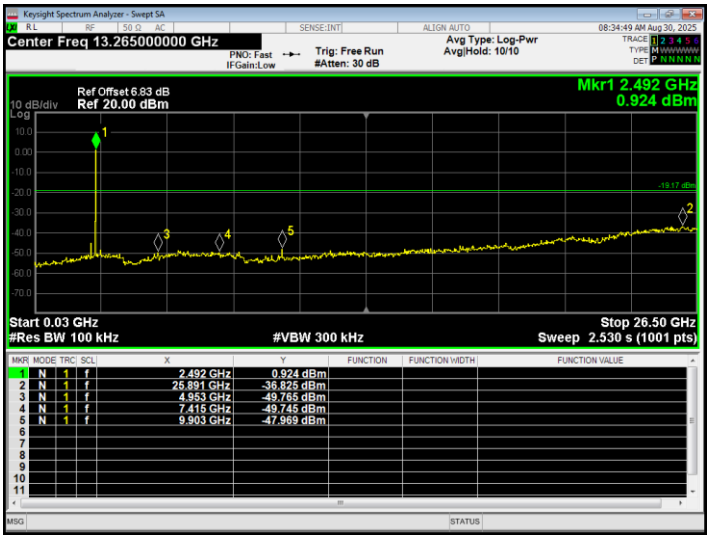

Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission




Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref




Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission


Keysight Spectrum Analyzer - Swept SA
Center Freq 13.265000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
08:34:49 AM Aug 30, 2025
Ref Offset 6.83 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.492 GHz
0.924 dBm
-19.17 dBm
Start 0.03 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.530 s (1001 pts)
1 N 1 f 2.492 GHz 0.924 dBm
2 N 1 f 25.891 GHz -36.825 dBm
3 N 1 f 4.953 GHz -49.765 dBm
4 N 1 f 7.415 GHz -49.745 dBm
5 N 1 f 9.903 GHz -47.969 dBm