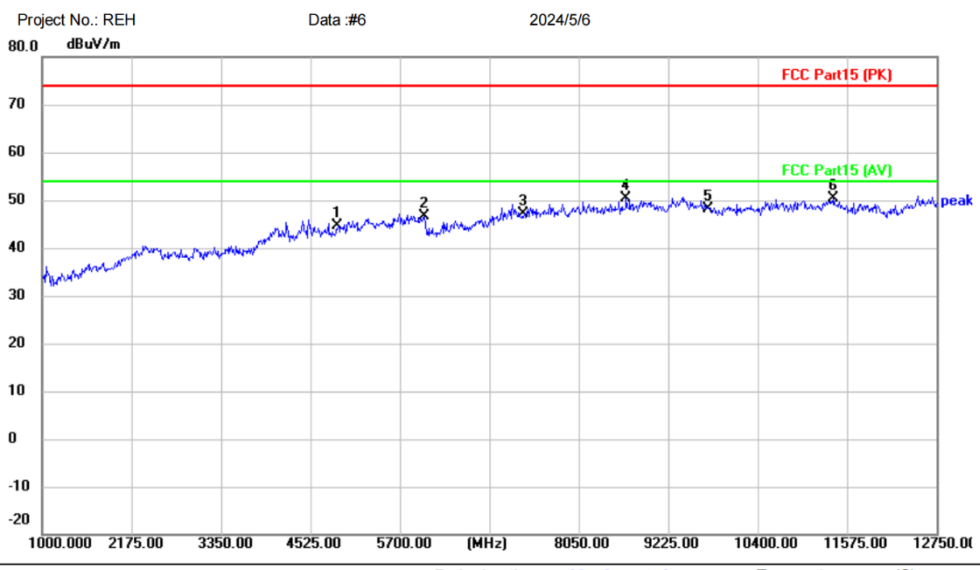
[Test mode: TX middle channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Headset
M/N: M-ONE
Mode: TX-2441
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

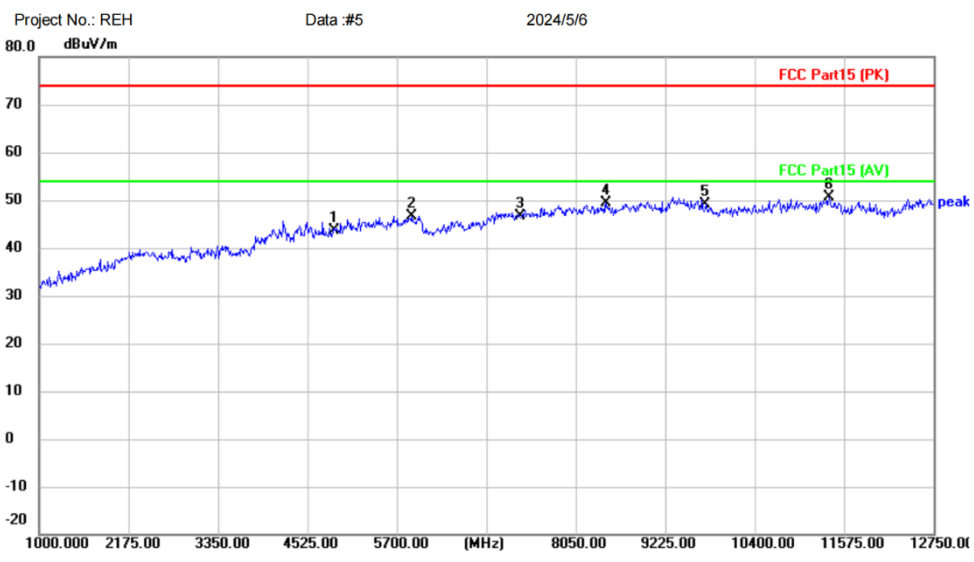
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4882.000 | 38.78 | 5.73 | 44.51 | 74.00 | -29.49 | peak | |
| 2 | | 6017.250 | 41.10 | 5.63 | 46.73 | 74.00 | -27.27 | peak | |
| 3 | | 7323.000 | 37.59 | 9.43 | 47.02 | 74.00 | -26.98 | peak | |
| 4 | * | 8672.750 | 38.97 | 11.40 | 50.37 | 74.00 | -23.63 | peak | |
| 5 | | 9764.000 | 35.94 | 12.21 | 48.15 | 74.00 | -25.85 | peak | |
| 6 | | 11398.75 | 37.74 | 12.61 | 50.35 | 74.00 | -23.65 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

**Test Result: Pass**

[Test mode: TX middle channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Headset
M/N: M-ONE
Mode: TX-2441
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

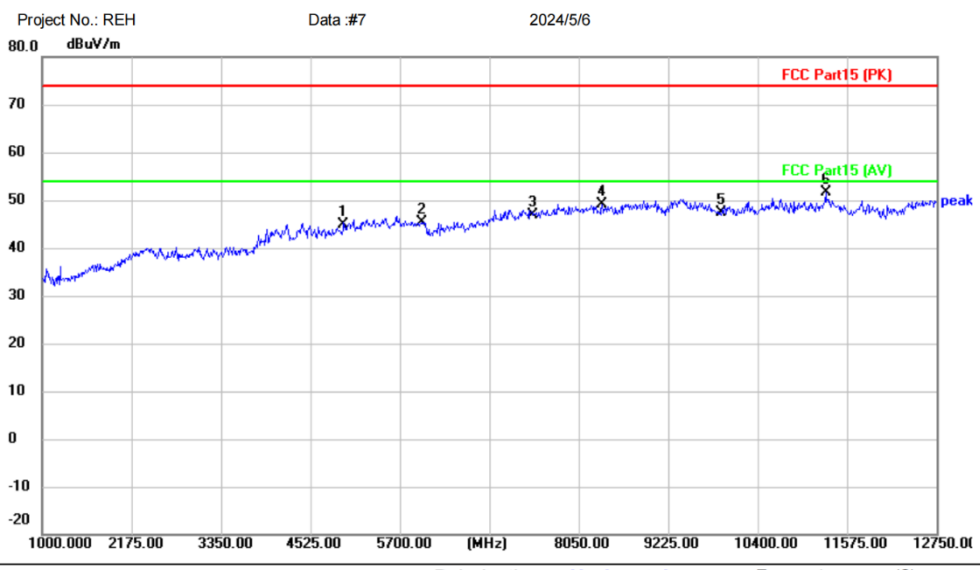
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4882.000 | 37.93 | 5.73 | 43.66 | 74.00 | -30.34 | peak | |
| 2 | | 5899.750 | 37.97 | 8.66 | 46.63 | 74.00 | -27.37 | peak | |
| 3 | | 7323.000 | 37.17 | 9.43 | 46.60 | 74.00 | -27.40 | peak | |
| 4 | | 8449.500 | 38.82 | 10.63 | 49.45 | 74.00 | -24.55 | peak | |
| 5 | | 9764.000 | 36.84 | 12.21 | 49.05 | 74.00 | -24.95 | peak | |
| 6 | * | 11375.25 | 38.00 | 12.63 | 50.63 | 74.00 | -23.37 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

**Test Result: Pass**

[Test mode: TX High channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Headset
M/N: M-ONE
Mode: TX-2480
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

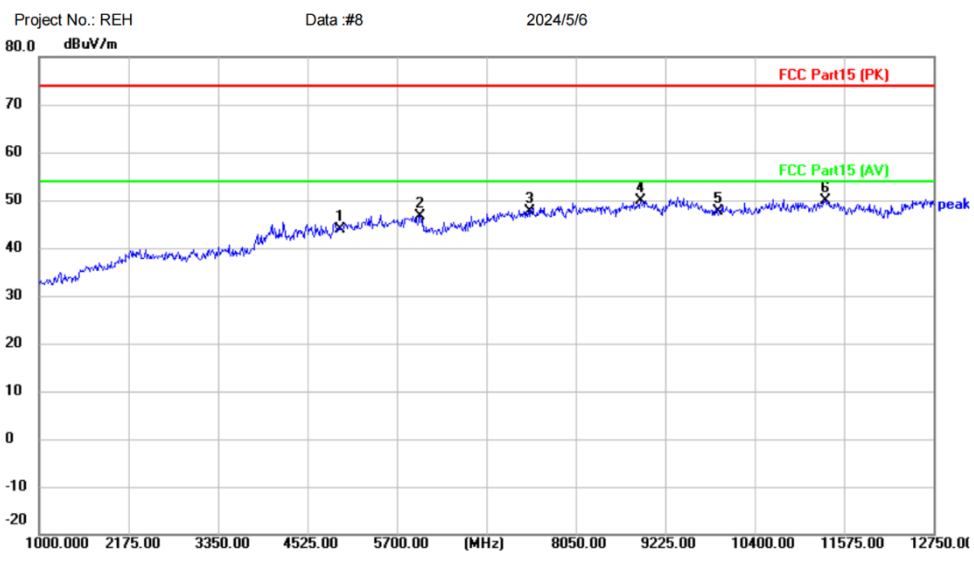
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4960.000 | 38.24 | 6.60 | 44.84 | 74.00 | -29.16 | peak | |
| 2 | | 5993.750 | 36.71 | 8.75 | 45.46 | 74.00 | -28.54 | peak | |
| 3 | | 7440.000 | 37.35 | 9.64 | 46.99 | 74.00 | -27.01 | peak | |
| 4 | | 8355.500 | 38.97 | 10.15 | 49.12 | 74.00 | -24.88 | peak | |
| 5 | | 9920.000 | 35.24 | 12.14 | 47.38 | 74.00 | -26.62 | peak | |
| 6 | * | 11293.00 | 38.92 | 12.70 | 51.62 | 74.00 | -22.38 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

**Test Result: Pass**

[Test mode: TX High channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Headset
M/N: M-ONE
Mode: TX-2480
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4960.000 | 37.18 | 6.60 | 43.78 | 74.00 | -30.22 | peak | |
| 2 | | 6005.500 | 41.05 | 5.61 | 46.66 | 74.00 | -27.34 | peak | |
| 3 | | 7440.000 | 38.03 | 9.64 | 47.67 | 74.00 | -26.33 | peak | |
| 4 | * | 8896.000 | 37.96 | 12.03 | 49.99 | 74.00 | -24.01 | peak | |
| 5 | | 9920.000 | 35.44 | 12.14 | 47.58 | 74.00 | -26.42 | peak | |
| 6 | | 11328.25 | 37.30 | 12.67 | 49.97 | 74.00 | -24.03 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

**Test Result: Pass**

## 6.11 Radiated emissions which fall in the restricted bands

| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 6.10.5 |
| **Test Mode (Pre-Scan)** | TX |
| **Test Mode (Final Test)** | TX |

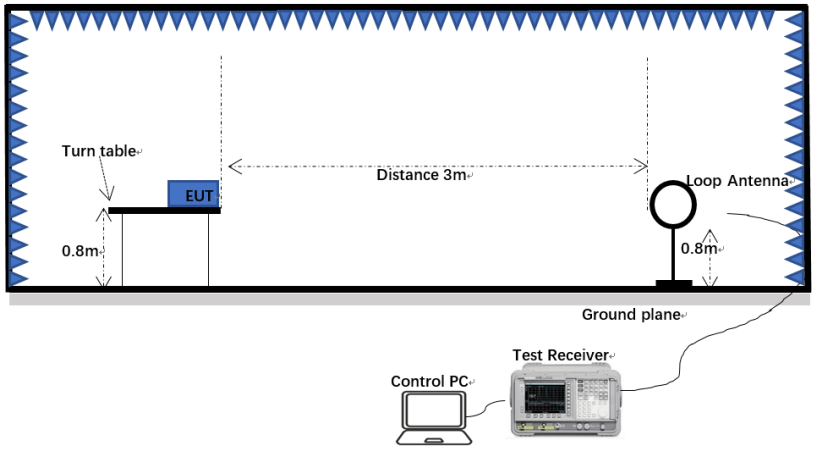
### 6.11.1 Limit

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

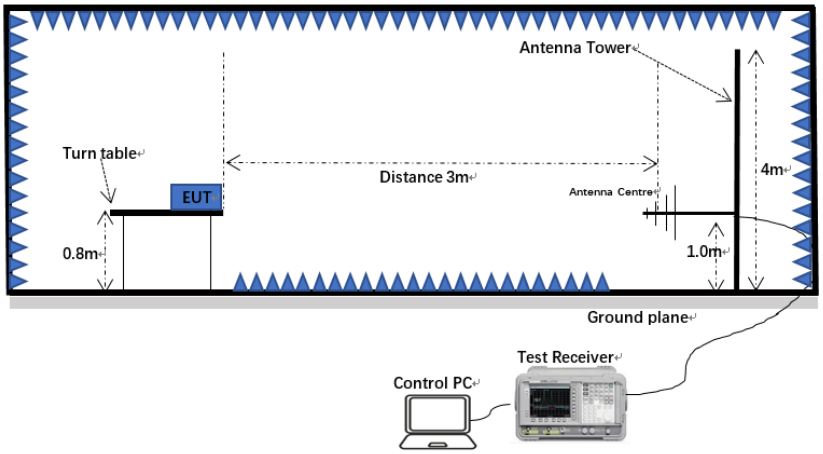
*Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.*

6.11.2 Test setup

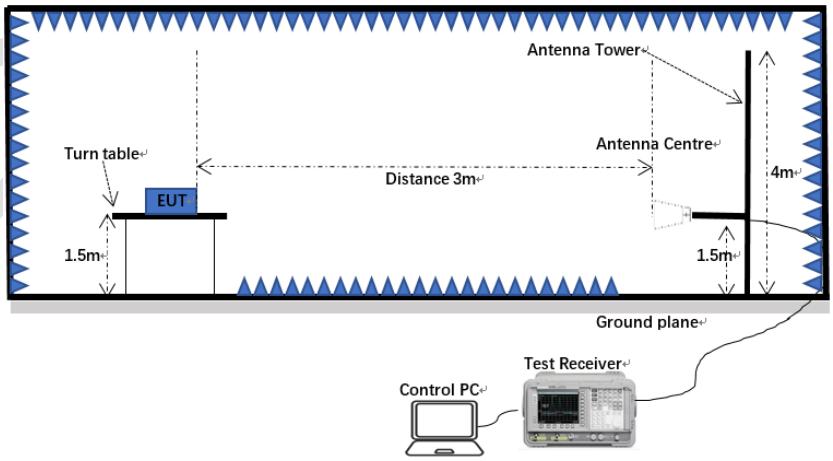
Below 1GHz：




30MHz-1GHz：




Above 1GHz：



6.11.3 Procedure

a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h) Test the EUT in the lowest channel, the middle channel, the highest channel.

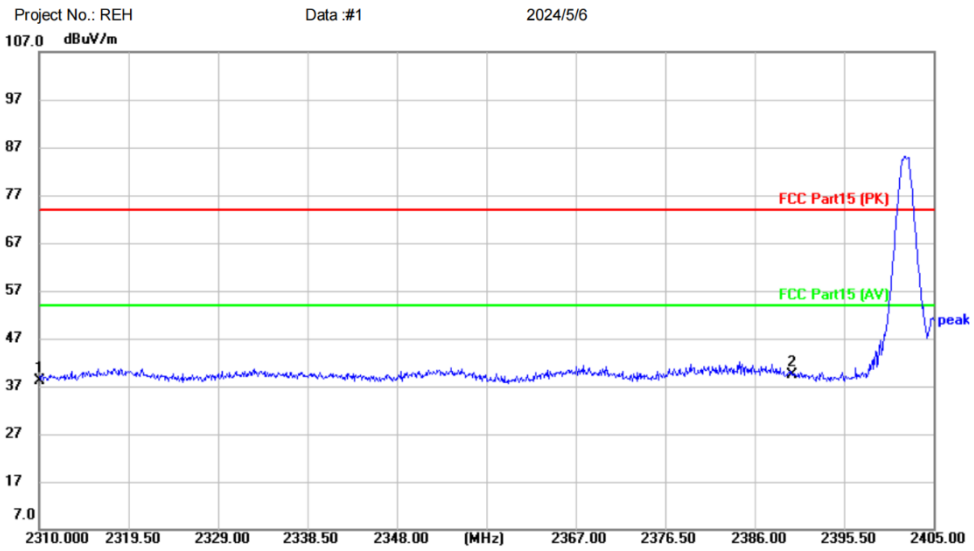
i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j) Repeat above procedures until all frequencies measured was complete.

*Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)*
*Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.*

6.11.4 Test data

[Test mode: TX low channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Headset
M/N: M-ONE
Mode: TX-2402
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

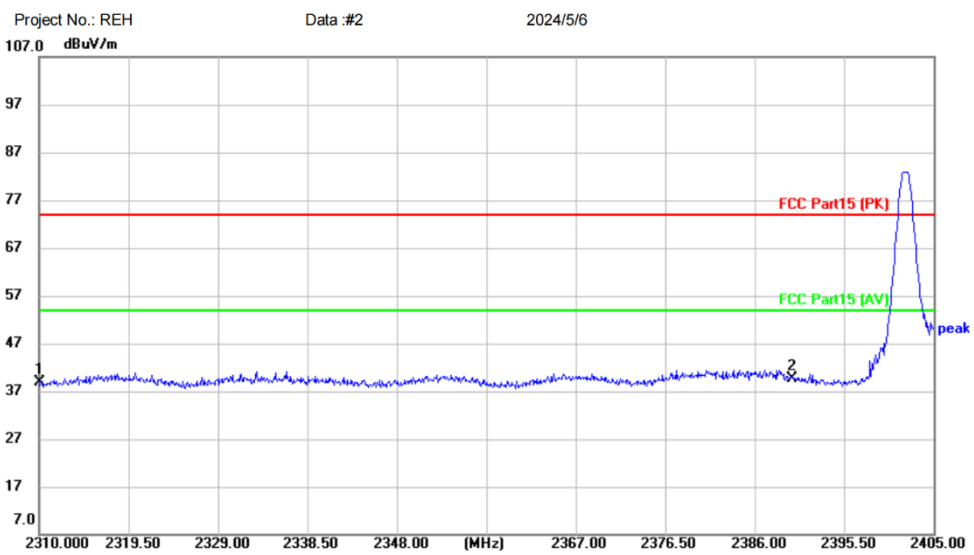
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310.000 | 41.02 | -2.89 | 38.13 | 74.00 | -35.87 | peak | |
| 2 | * | 2390.000 | 42.08 | -2.70 | 39.38 | 74.00 | -34.62 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

**Test Result: Pass**

[Test mode:TX low channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Headset
M/N: M-ONE
Mode: TX-2402
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

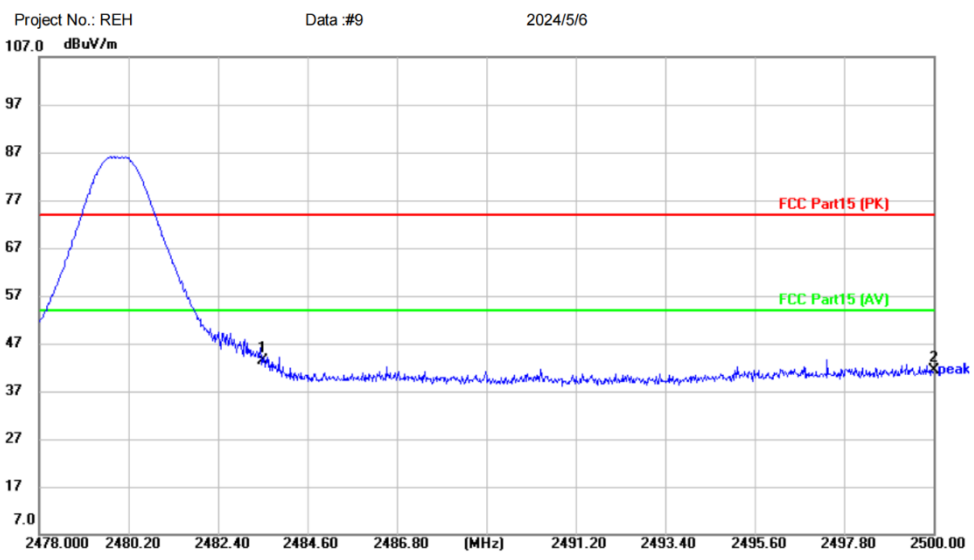
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310.000 | 41.70 | -2.89 | 38.81 | 74.00 | -35.19 | peak | |
| 2 | * | 2390.000 | 42.21 | -2.70 | 39.51 | 74.00 | -34.49 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

**Test Result: Pass**

[Test mode: TX High channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Headset
M/N: M-ONE
Mode: TX-2480
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

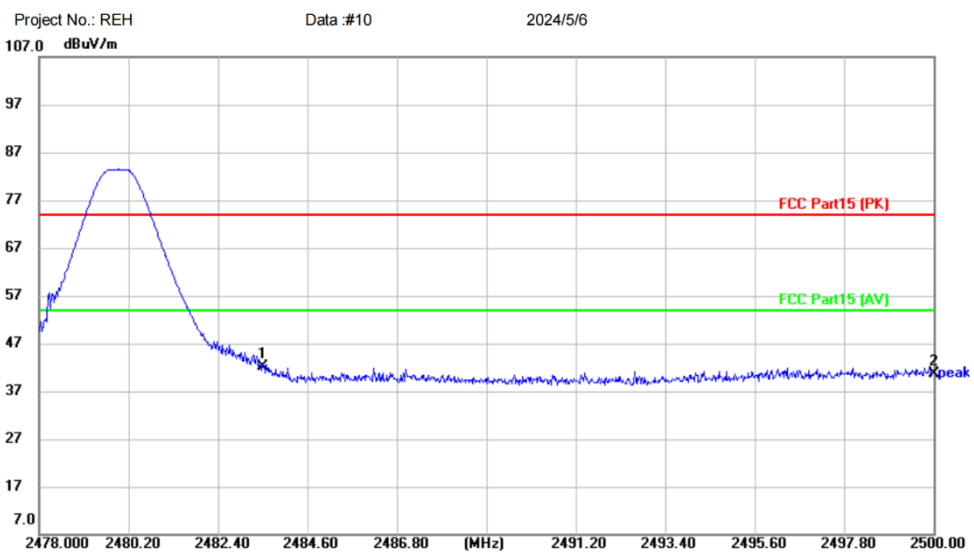
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 2483.500 | 46.40 | -2.91 | 43.49 | 74.00 | -30.51 | peak | |
| 2 | | 2500.000 | 44.31 | -3.00 | 41.31 | 74.00 | -32.69 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

**Test Result: Pass**

[Test mode:TX High channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Headset
M/N: M-ONE
Mode: TX-2480
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 2483.500 | 45.16 | -2.91 | 42.25 | 74.00 | -31.75 | peak | |
| 2 | | 2500.000 | 43.75 | -3.00 | 40.75 | 74.00 | -33.25 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

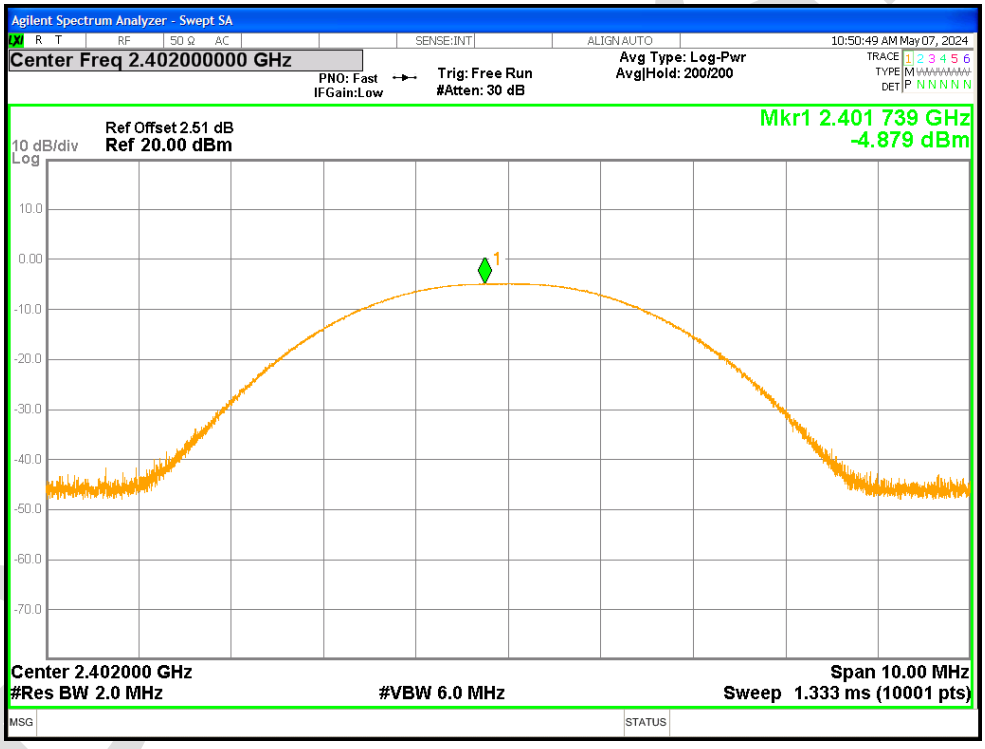
**Test Result: Pass**

# 7 Appendix A

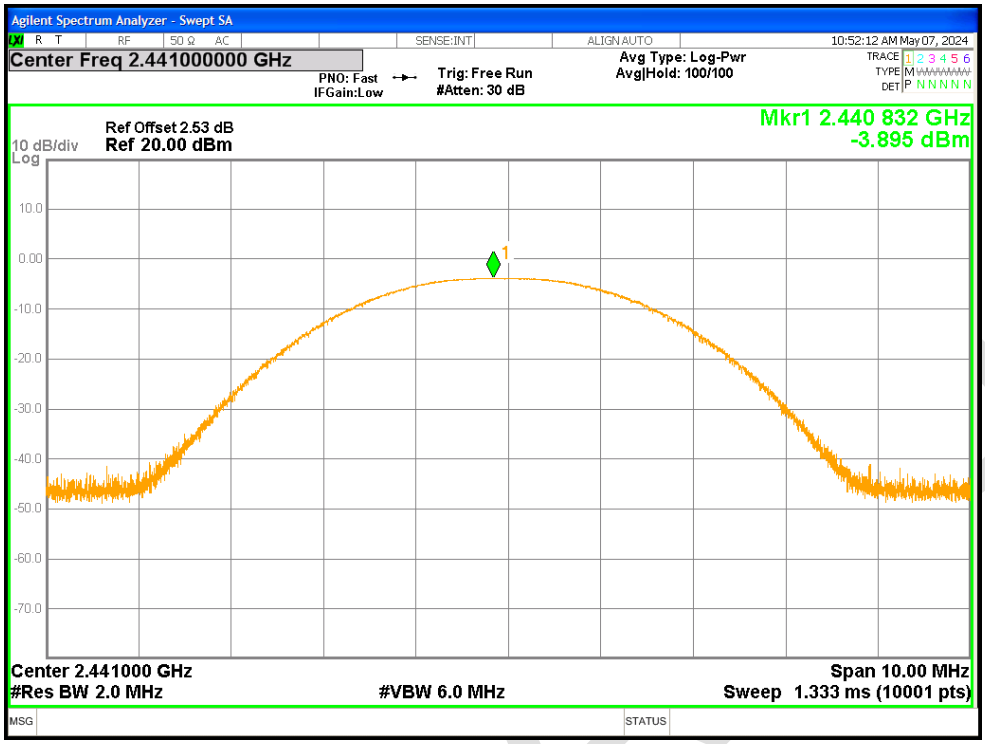
## 7.1 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | Ant1 | -4.879 | 21 | Pass |
| NVNT | 1-DH1 | 2441 | Ant1 | -3.895 | 21 | Pass |
| NVNT | 1-DH1 | 2480 | Ant1 | -4.861 | 21 | Pass |
| NVNT | 2-DH1 | 2402 | Ant1 | -7.175 | 21 | Pass |
| NVNT | 2-DH1 | 2441 | Ant1 | -6.971 | 21 | Pass |
| NVNT | 2-DH1 | 2480 | Ant1 | -7.664 | 21 | Pass |

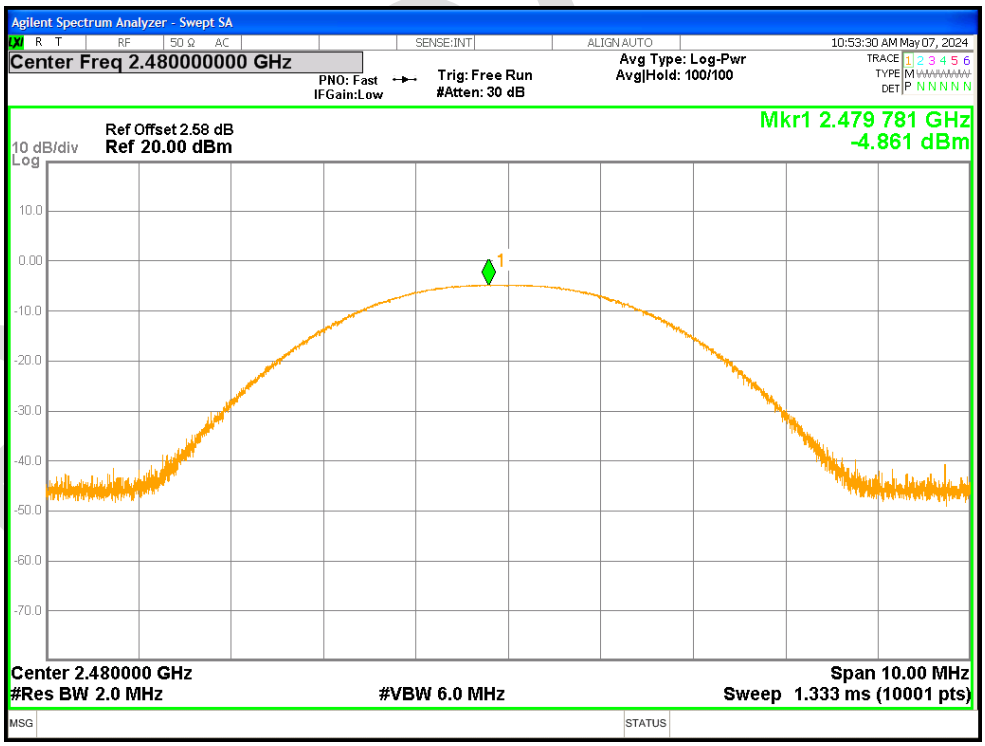
Power NVNT 1-DH1 2402MHz Ant1



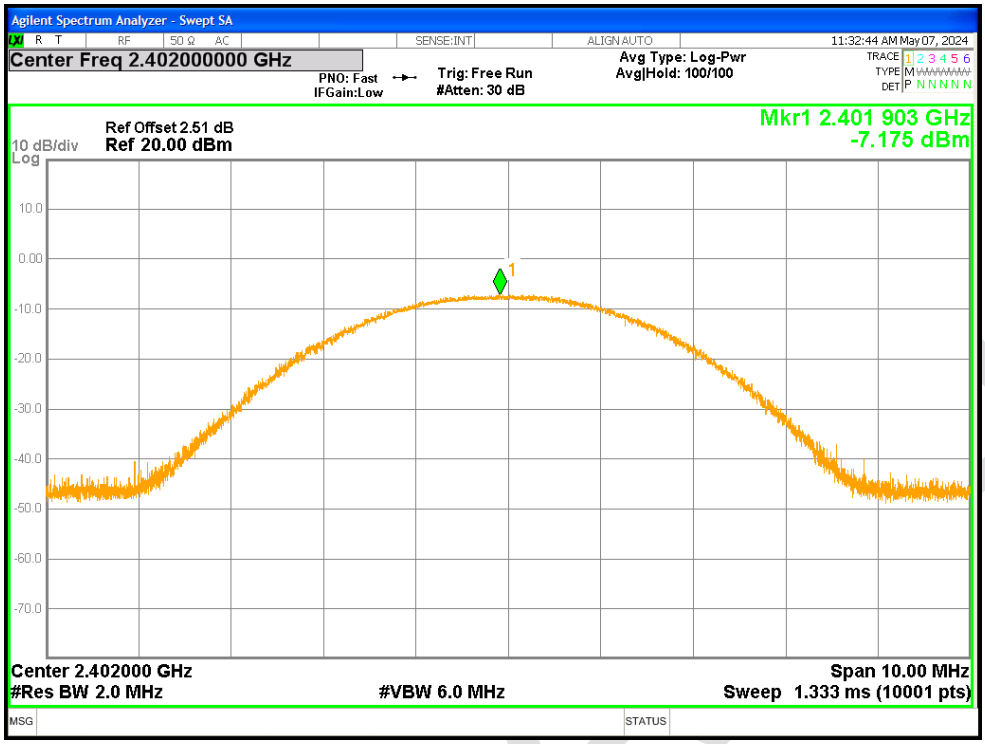

Power NVNT 1-DH1 2441MHz Ant1



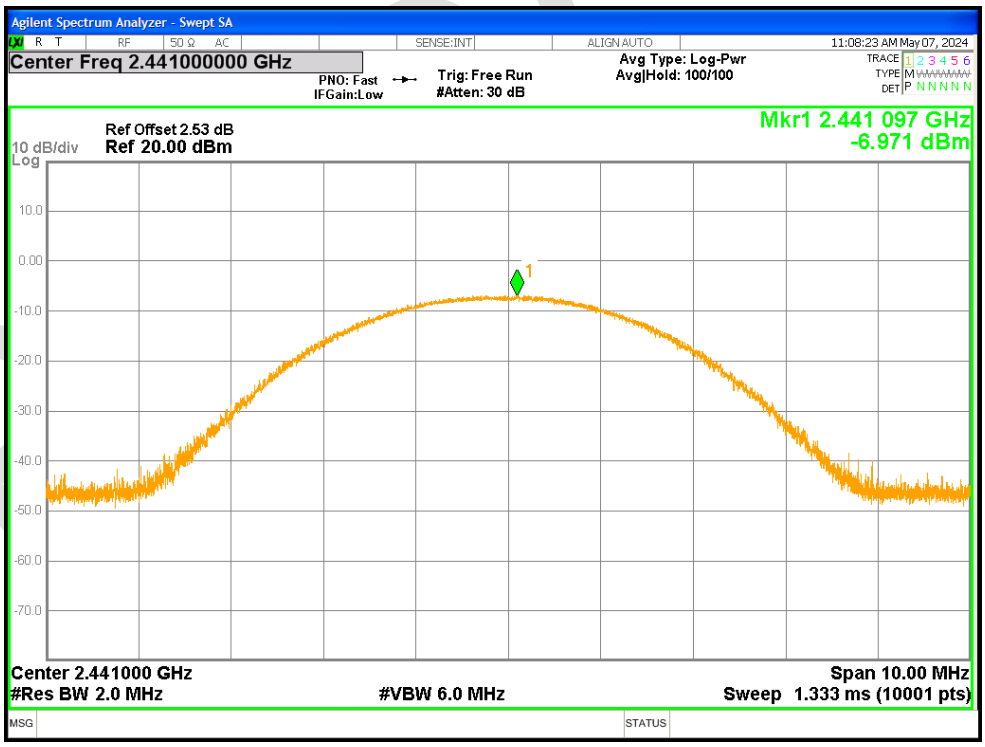

Power NVNT 1-DH1 2480MHz Ant1



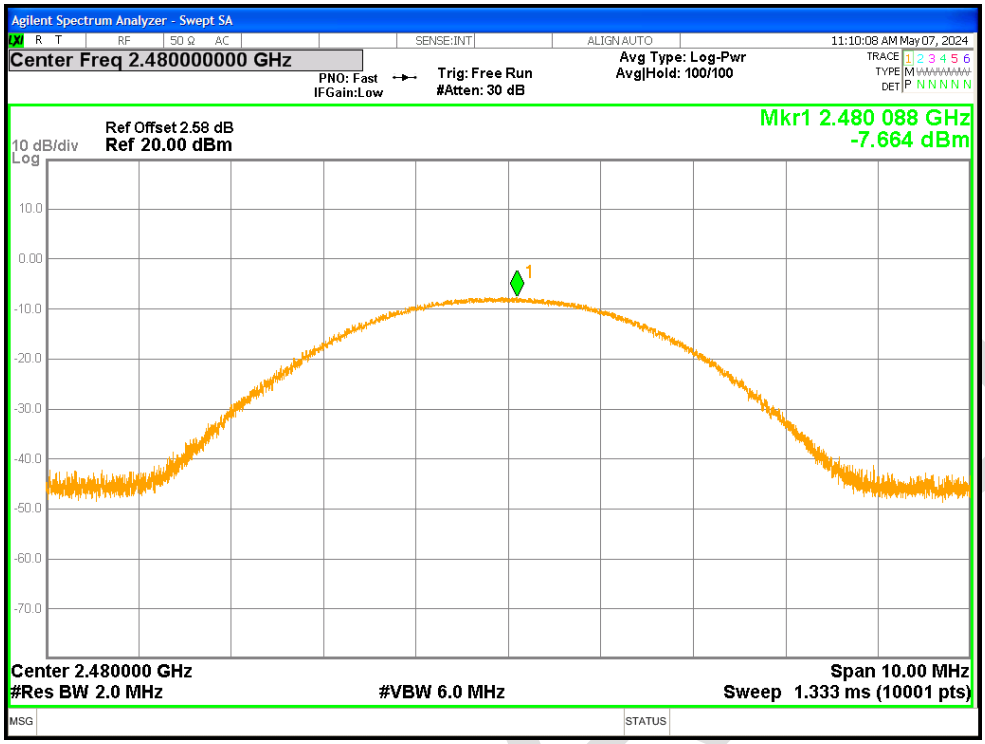

Power NVNT 2-DH1 2402MHz Ant1




Power NVNT 2-DH1 2441MHz Ant1



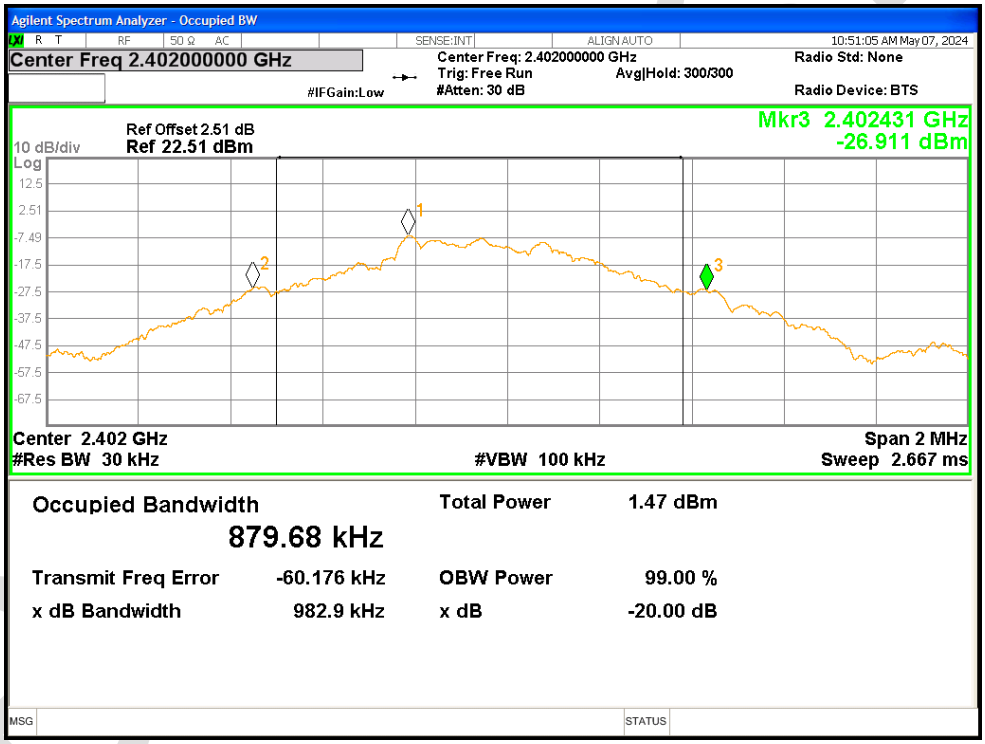

Power NVNT 2-DH1 2480MHz Ant1


Agilent 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
11:10:08 AM May 07, 2024
Ref Offset 2.58 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.480 088 GHz
-7.664 dBm
Center 2.480000 GHz
#Res BW 2.0 MHz
#VBW 6.0 MHz
Span 10.00 MHz
Sweep 1.333 ms (10001 pts)

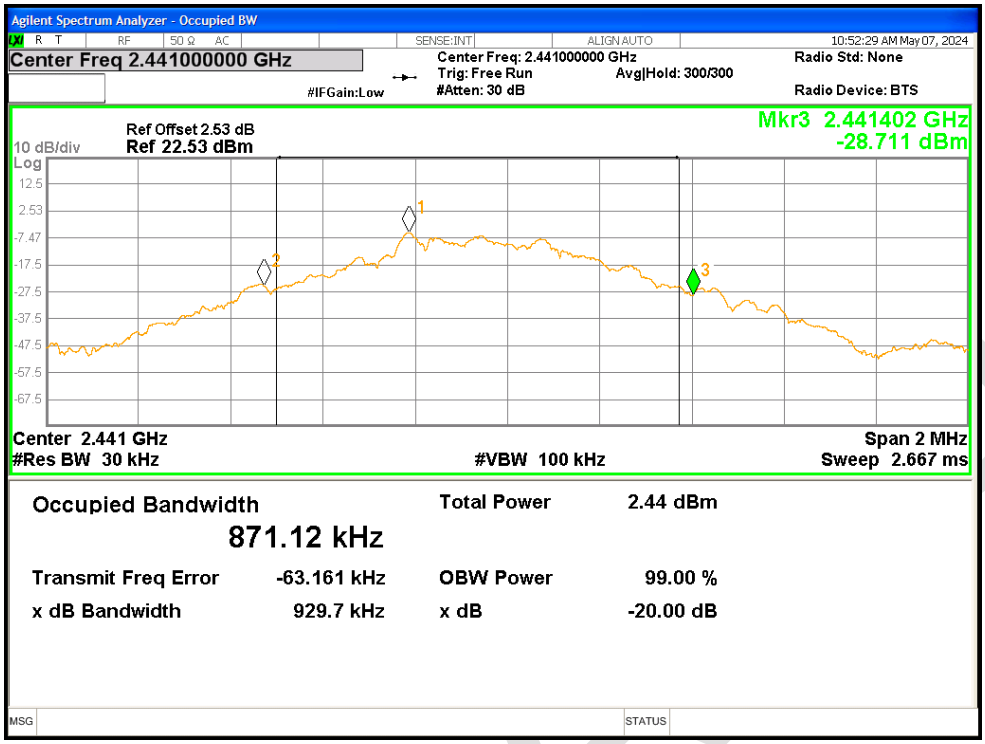
## 7.2 -20dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | Ant1 | 0.983 | N/A | Pass |
| NVNT | 1-DH1 | 2441 | Ant1 | 0.93 | N/A | Pass |
| NVNT | 1-DH1 | 2480 | Ant1 | 0.998 | N/A | Pass |
| NVNT | 2-DH1 | 2402 | Ant1 | 1.237 | N/A | Pass |
| NVNT | 2-DH1 | 2441 | Ant1 | 1.243 | N/A | Pass |
| NVNT | 2-DH1 | 2480 | Ant1 | 1.239 | N/A | Pass |

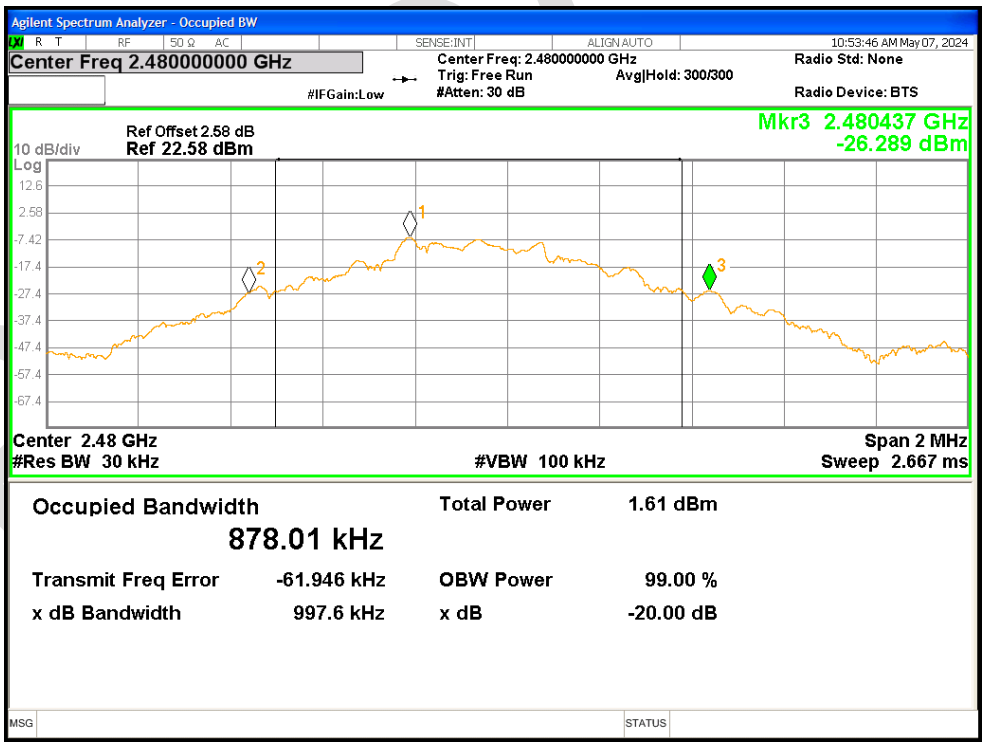
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



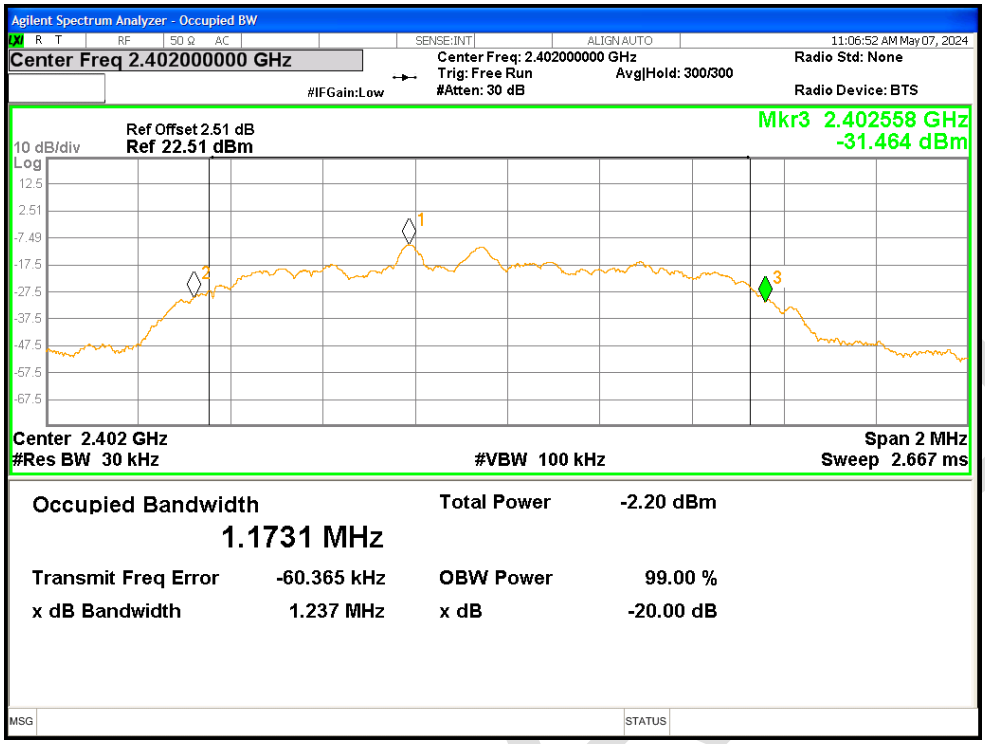

-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



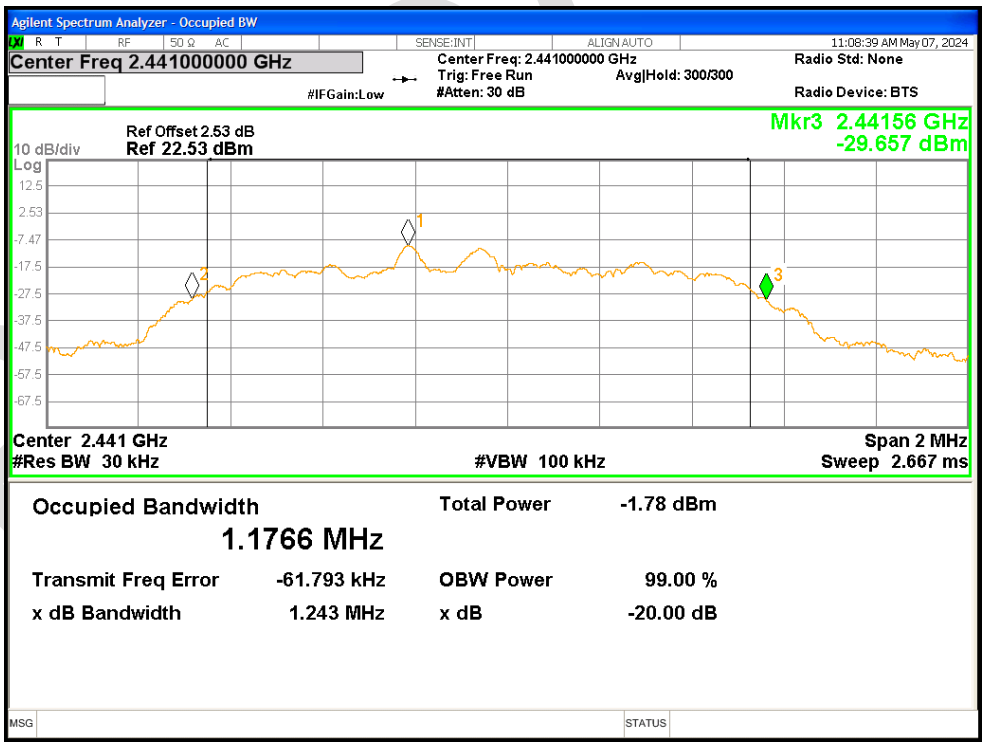

-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



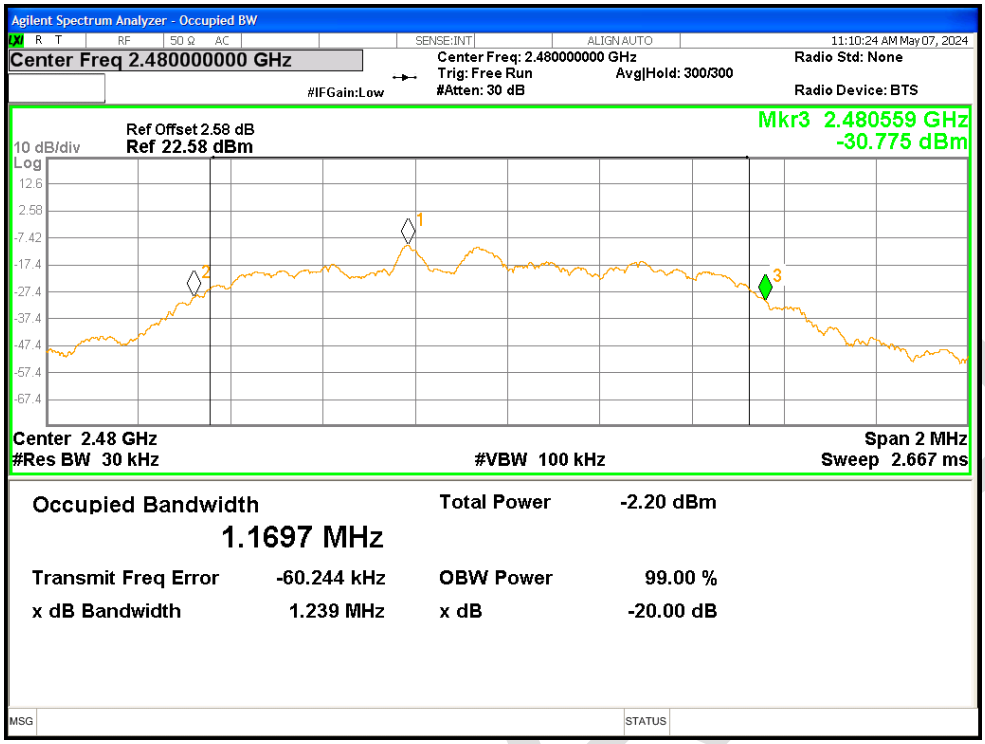

-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1




-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



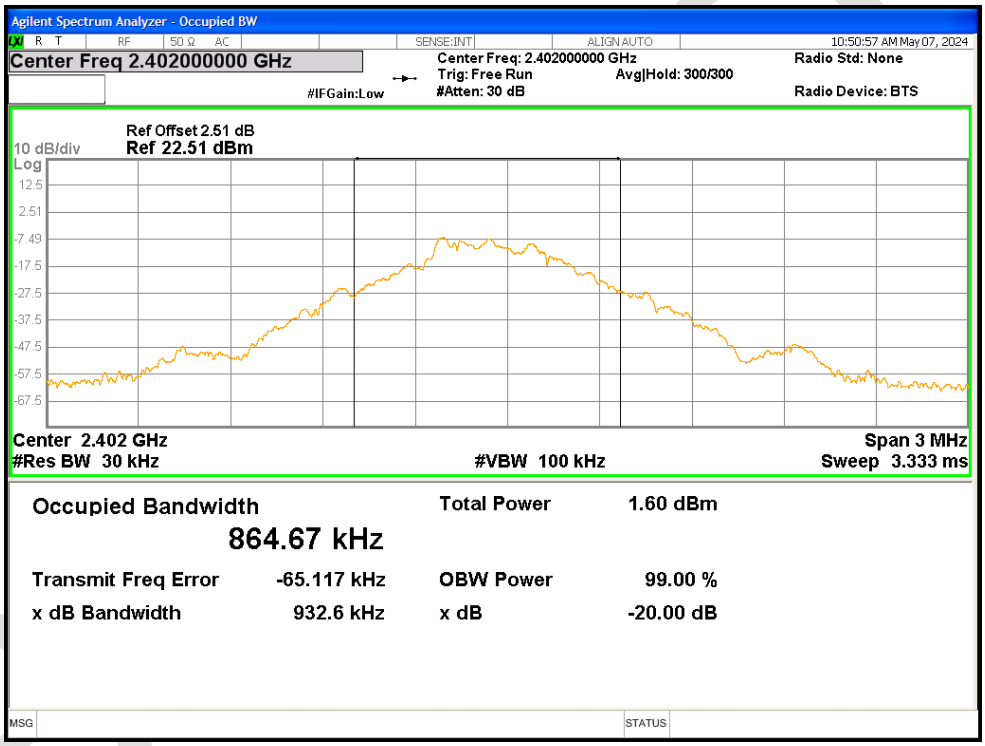

-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1


Agilent Spectrum Analyzer - Occupied BW
RT
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:10:24 AM May 07, 2024
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 300/300
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Mkr3 2.480559 GHz
-30.775 dBm
Ref Offset 2.58 dB
10 dB/div
Ref 22.58 dBm
Log
12.6
2.58
-7.42
-17.4
-27.4
-37.4
-47.4
-57.4
-67.4
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 2 MHz
Sweep 2.667 ms
Occupied Bandwidth
1.1697 MHz
Total Power -2.20 dBm
Transmit Freq Error -60.244 kHz
OBW Power 99.00 %
x dB Bandwidth 1.239 MHz
x dB -20.00 dB
MSG
STATUS

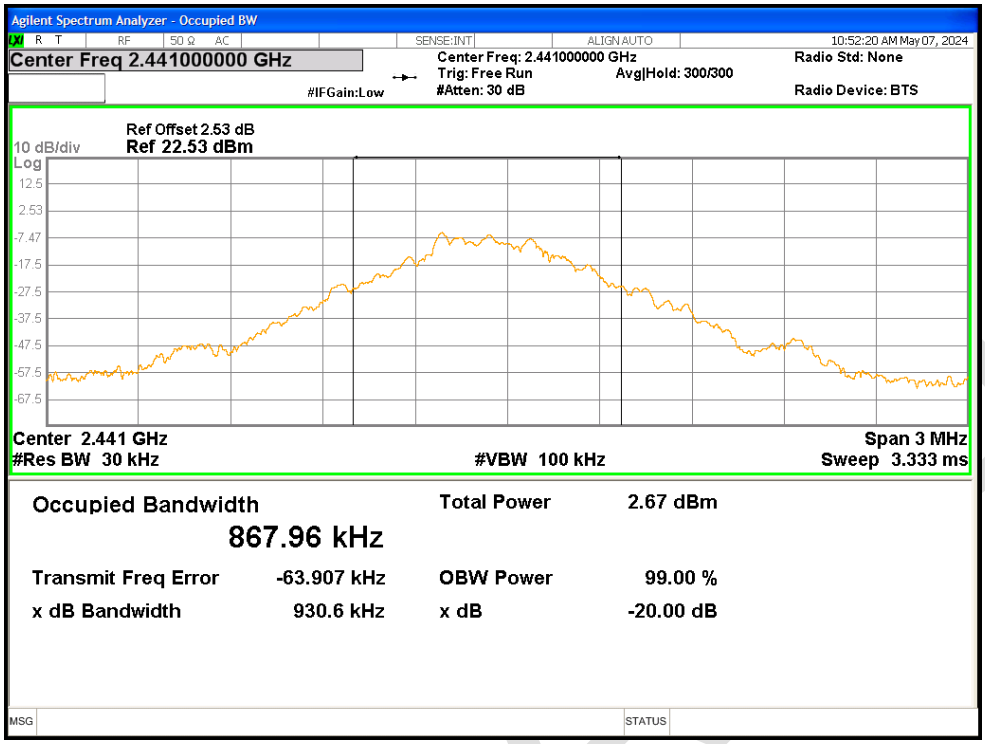
## 7.3 Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | Ant1 | 0.86467 |
| NVNT | 1-DH1 | 2441 | Ant1 | 0.86796 |
| NVNT | 1-DH1 | 2480 | Ant1 | 0.87200 |
| NVNT | 2-DH1 | 2402 | Ant1 | 1.1762 |
| NVNT | 2-DH1 | 2441 | Ant1 | 1.1755 |
| NVNT | 2-DH1 | 2480 | Ant1 | 1.1723 |

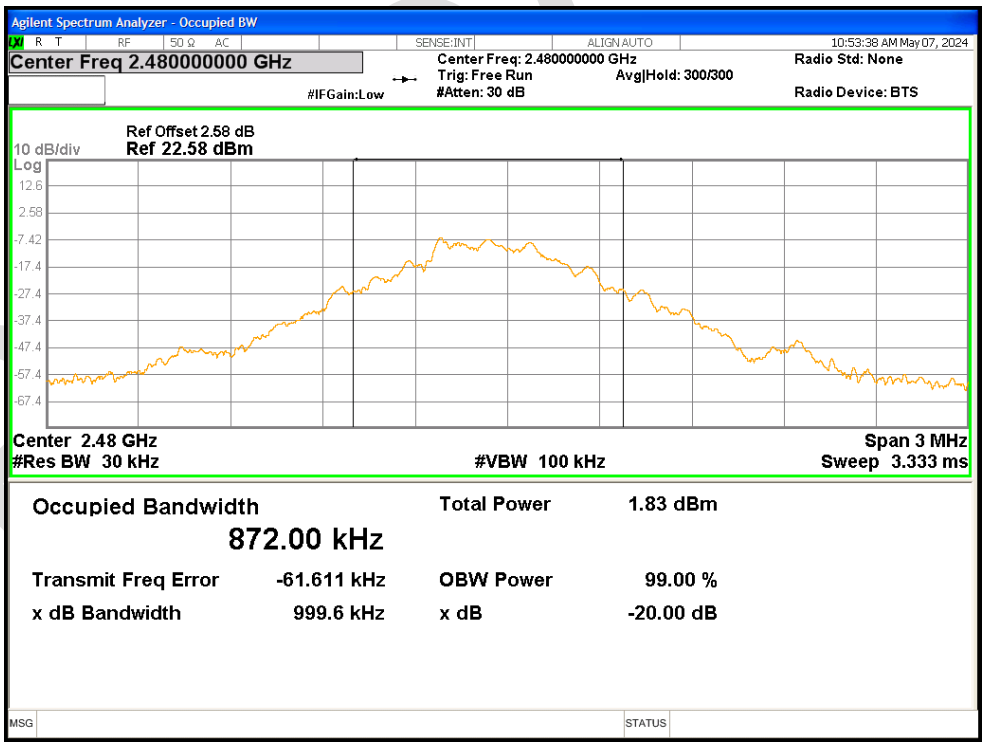
OBW NVNT 1-DH1 2402MHz Ant1



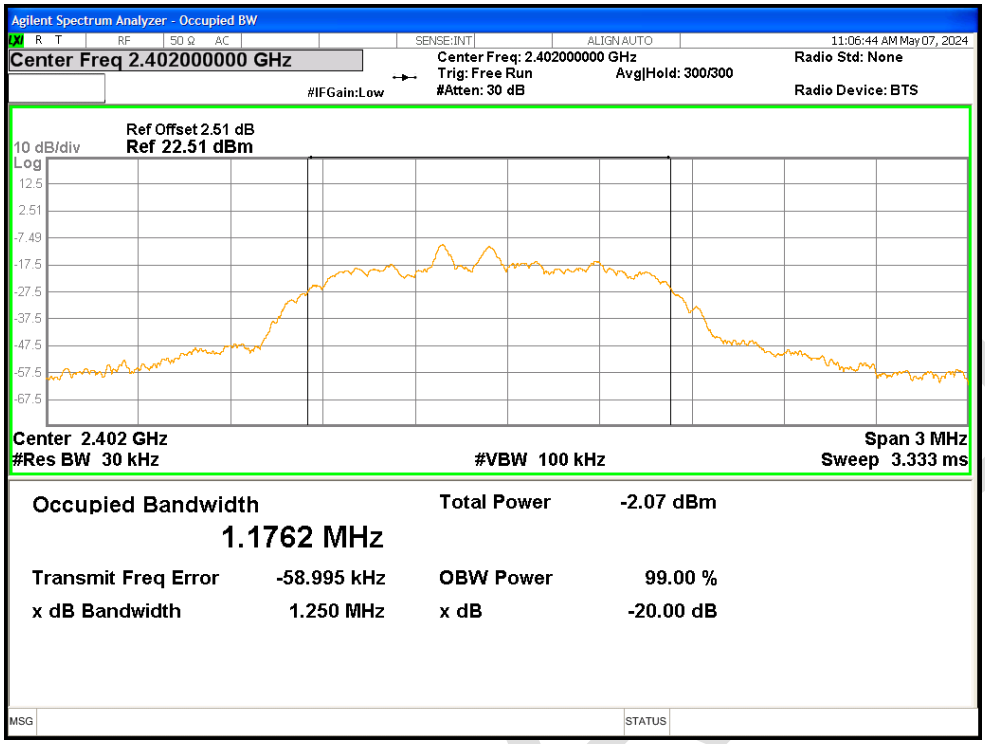

OBW NVNT 1-DH1 2441MHz Ant1



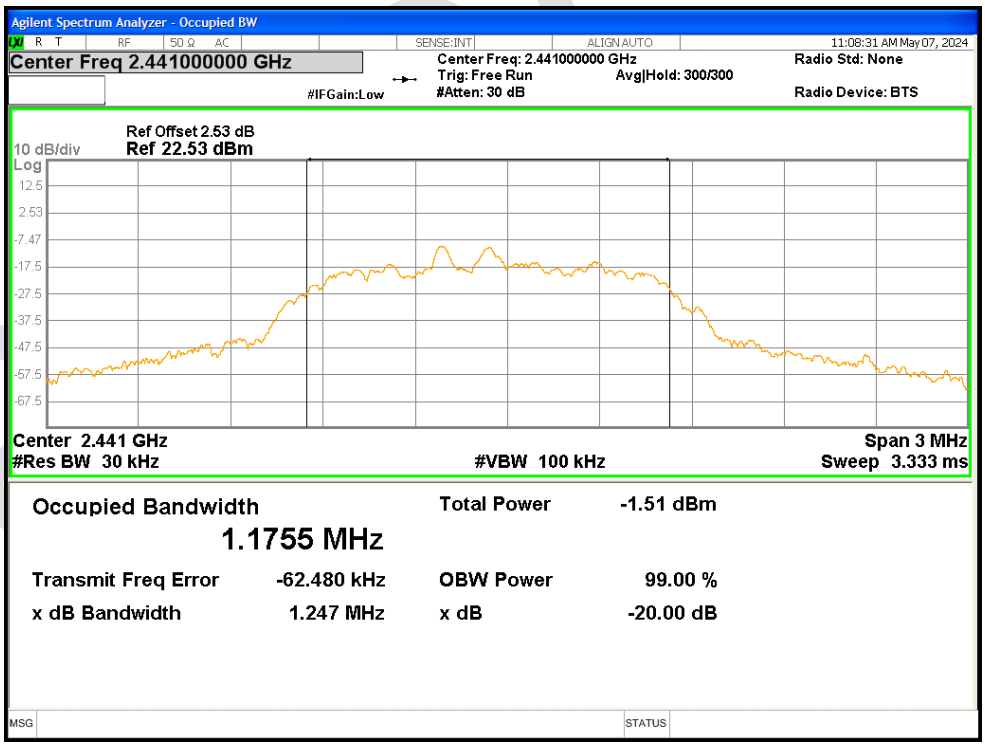

OBW NVNT 1-DH1 2480MHz Ant1



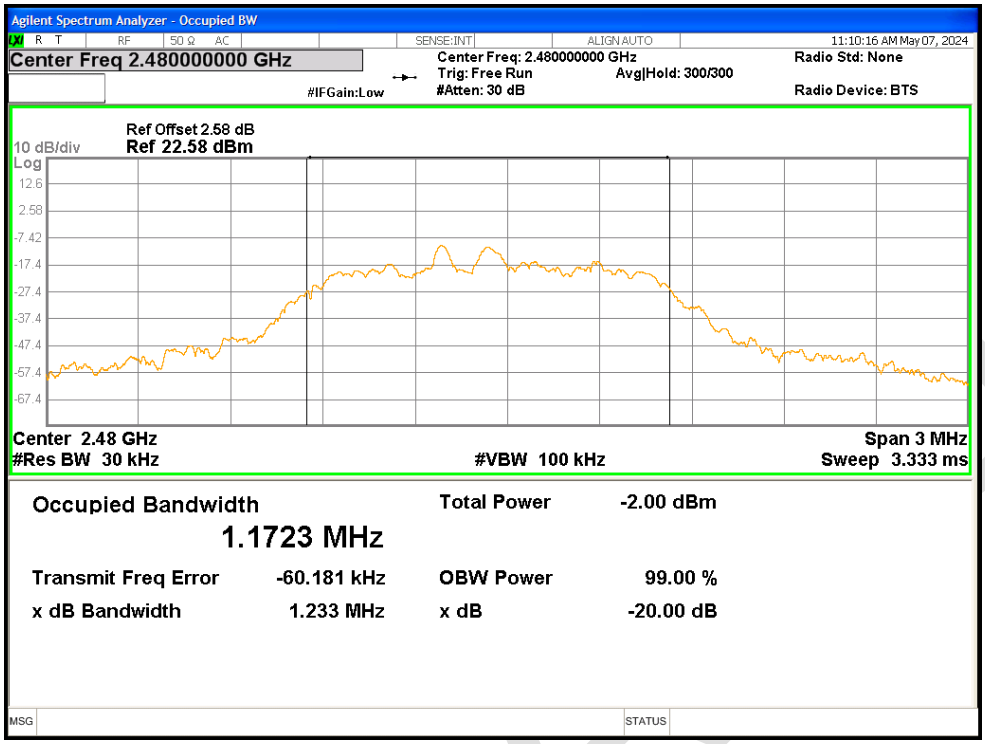

OBW NVNT 2-DH1 2402MHz Ant1




OBW NVNT 2-DH1 2441MHz Ant1



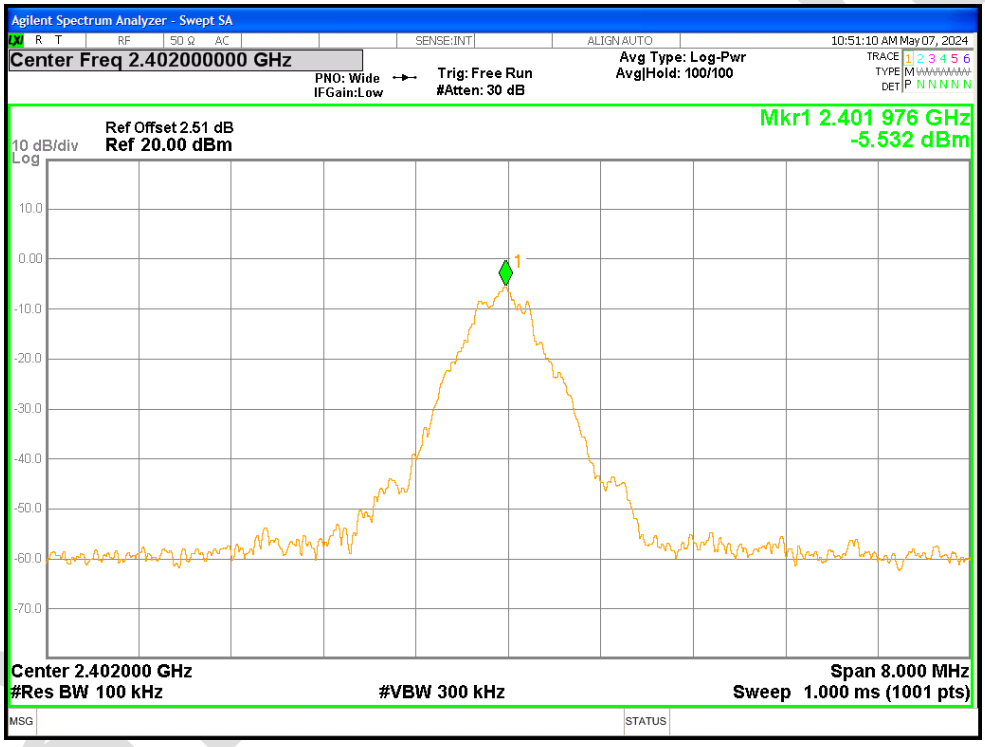

OBW NVNT 2-DH1 2480MHz Ant1


Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:10:16 AM May 07, 2024
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 300/300
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Ref Offset 2.58 dB
10 dB/div
Ref 22.58 dBm
Log
12.6
2.58
-7.42
-17.4
-27.4
-37.4
-47.4
-57.4
-67.4
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3 MHz
Sweep 3.333 ms
Occupied Bandwidth
1.1723 MHz
Total Power
-2.00 dBm
Transmit Freq Error
-60.181 kHz
OBW Power
99.00 %
x dB Bandwidth
1.233 MHz
x dB
-20.00 dB
MSG
STATUS

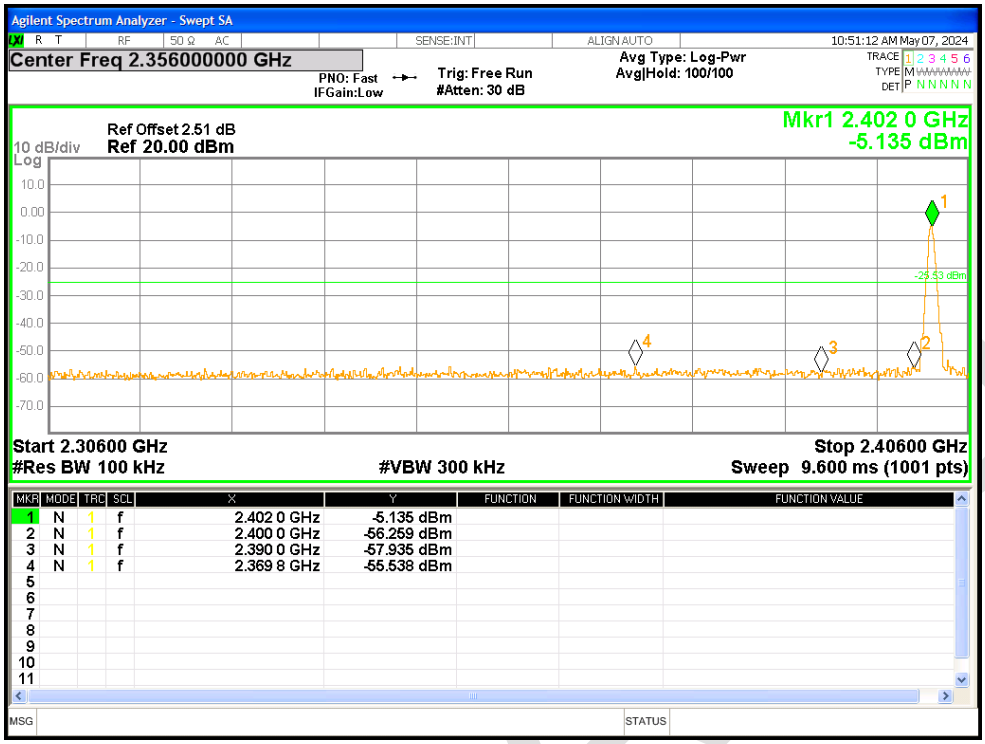
## 7.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | Ant1 | No-Hopping | -50 | -20 | Pass |
| NVNT | 1-DH1 | 2480 | Ant1 | No-Hopping | -49.74 | -20 | Pass |
| NVNT | 2-DH1 | 2402 | Ant1 | No-Hopping | -46.71 | -20 | Pass |
| NVNT | 2-DH1 | 2480 | Ant1 | No-Hopping | -46.17 | -20 | Pass |

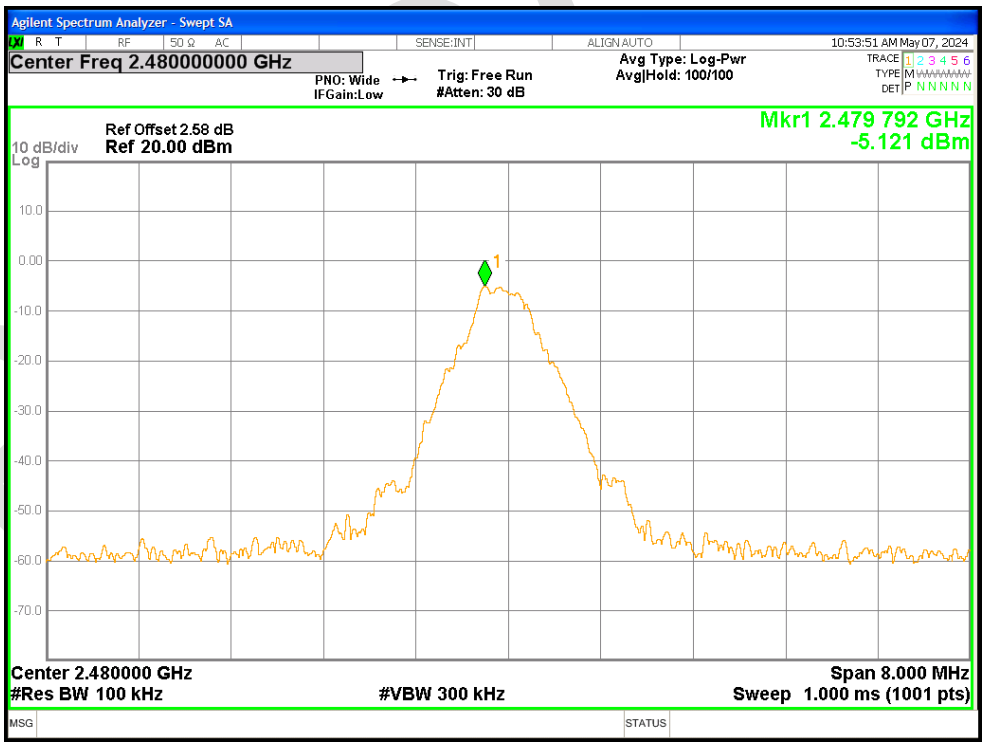
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



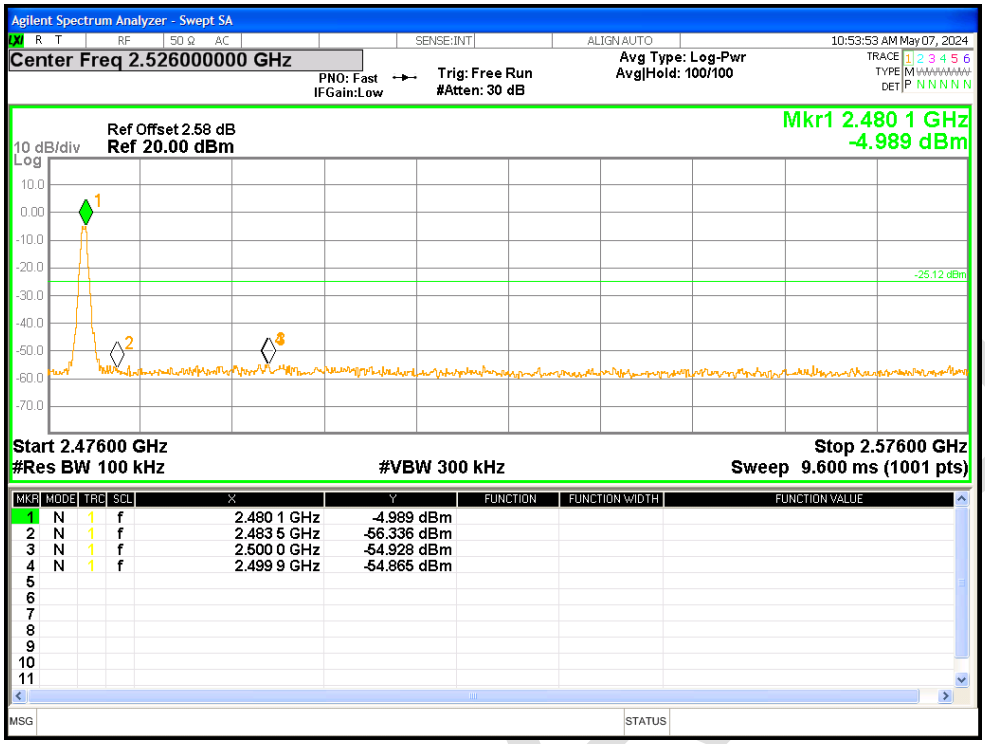

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



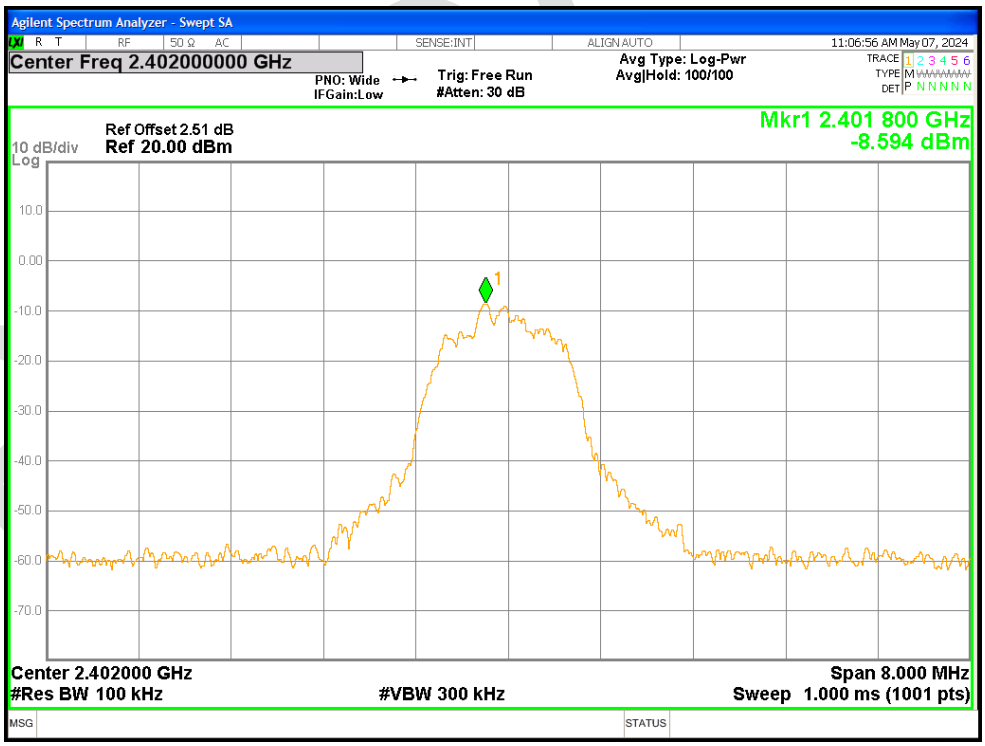

Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



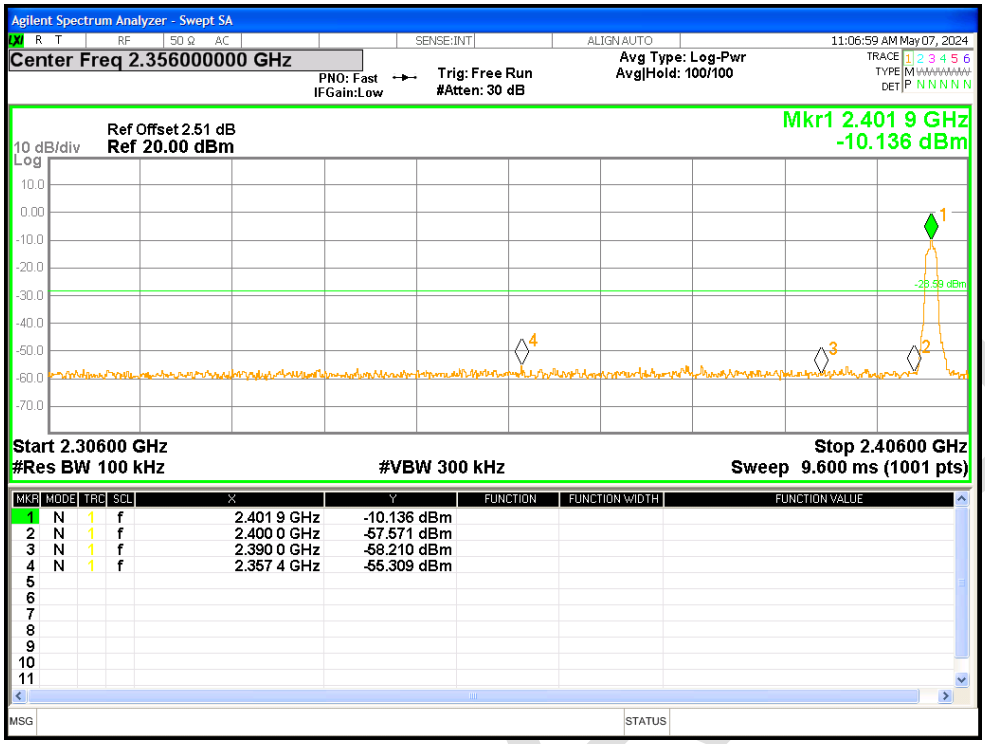

Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



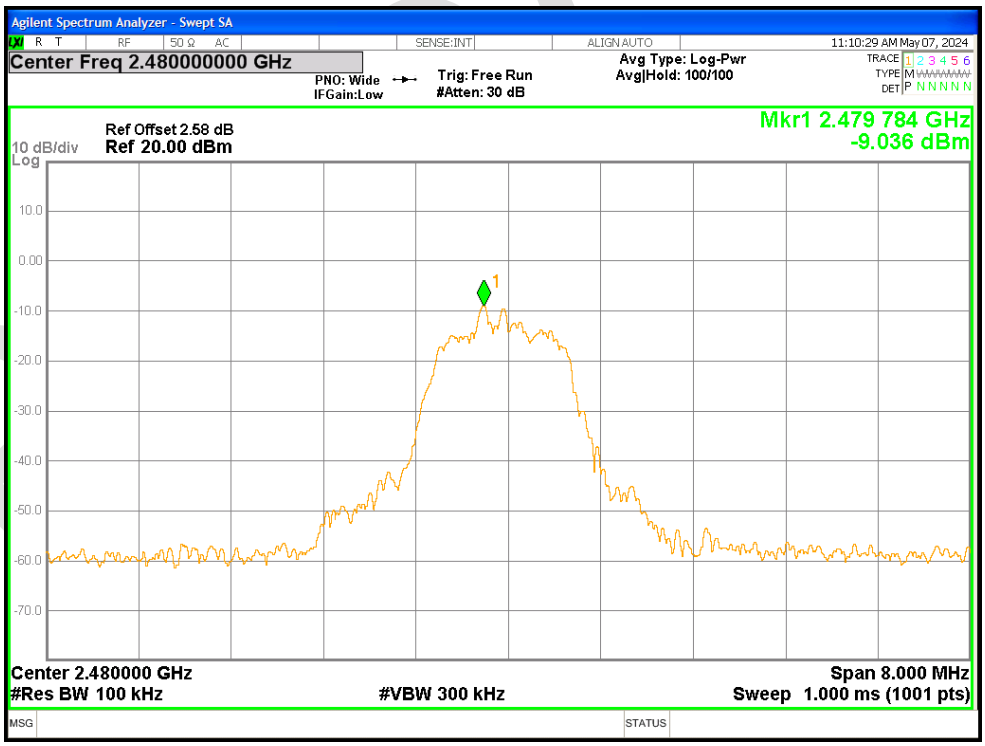

Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



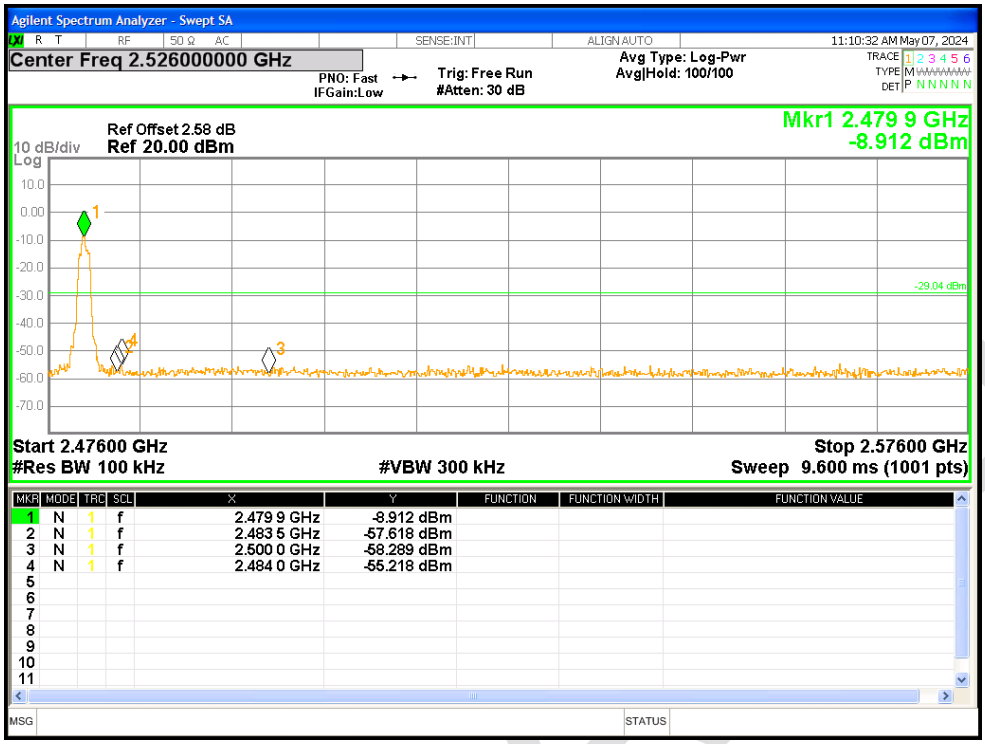

Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission




Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



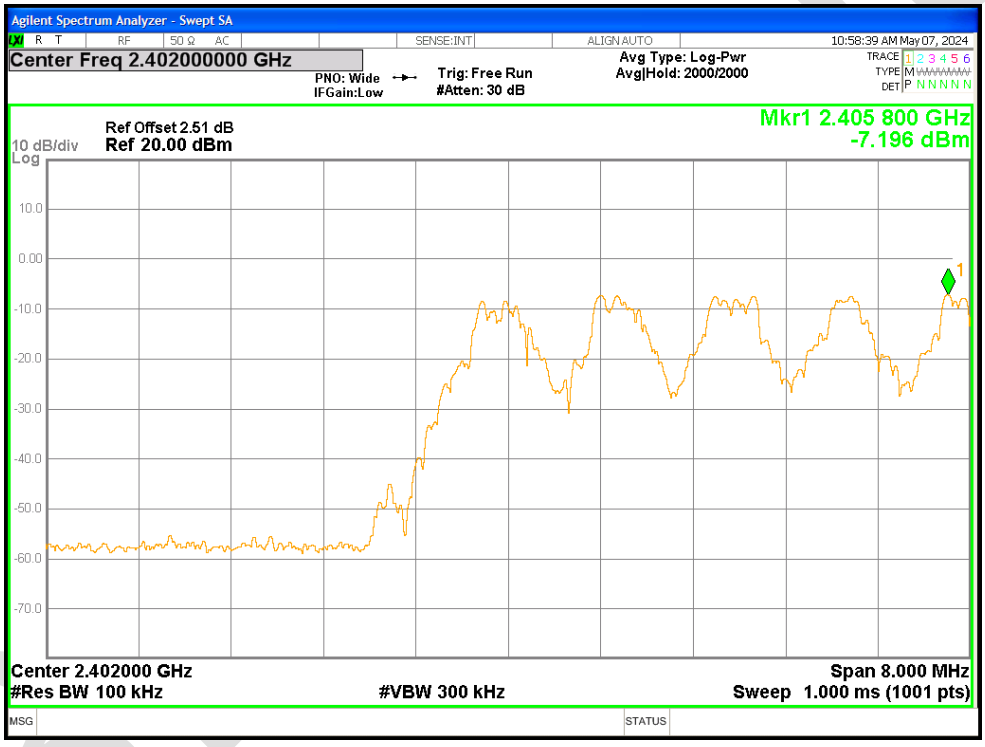

Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.526000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
11:10:32 AM May 07, 2024
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.479 9 GHz
-8.912 dBm
-29.04 dBm
Start 2.47600 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.57600 GHz
Sweep 9.600 ms (1001 pts)
1 N 1 f 2.479 9 GHz -8.912 dBm
2 N 1 f 2.483 5 GHz -57.618 dBm
3 N 1 f 2.500 0 GHz -58.289 dBm
4 N 1 f 2.484 0 GHz -55.218 dBm

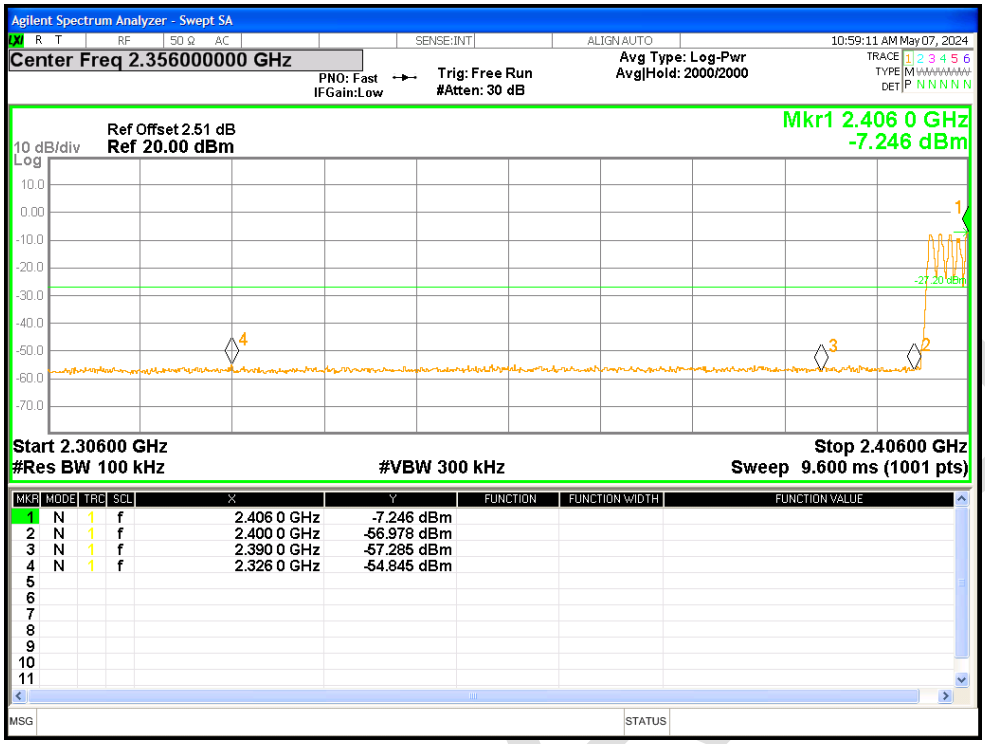
## 7.5 Band Edge(Hopping)

| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | Ant1 | Hopping | -47.64 | -20 | Pass |
| NVNT | 1-DH1 | 2480 | Ant1 | Hopping | -46.37 | -20 | Pass |
| NVNT | 2-DH1 | 2402 | Ant1 | Hopping | -44.62 | -20 | Pass |
| NVNT | 2-DH1 | 2480 | Ant1 | Hopping | -43.74 | -20 | Pass |

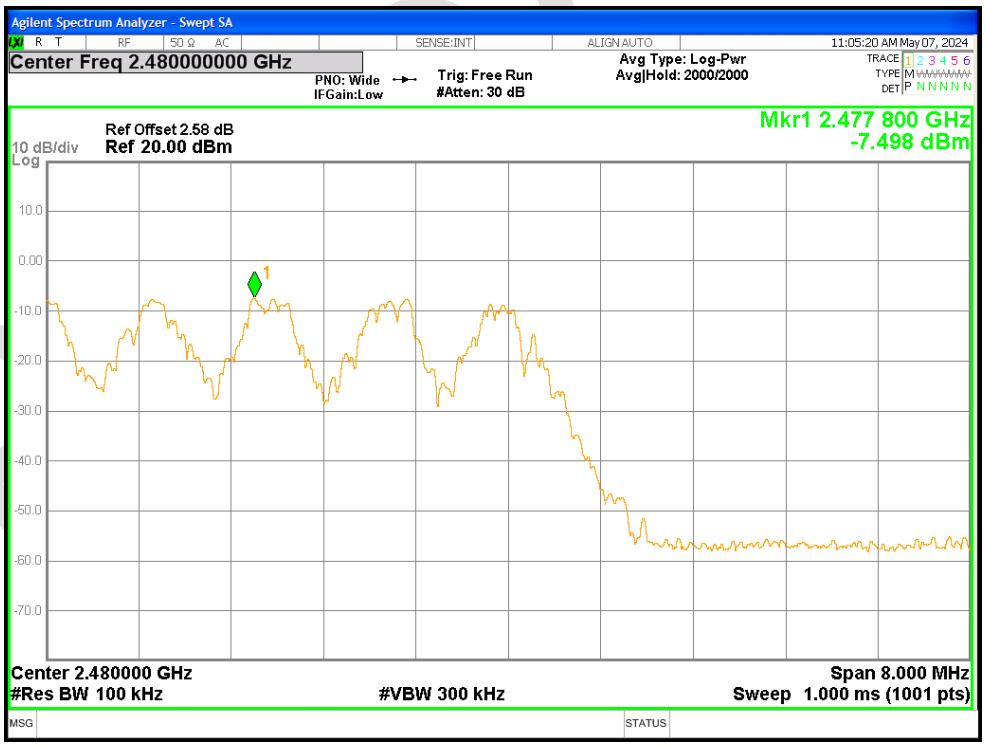
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref




Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission




Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref




Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission