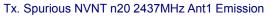
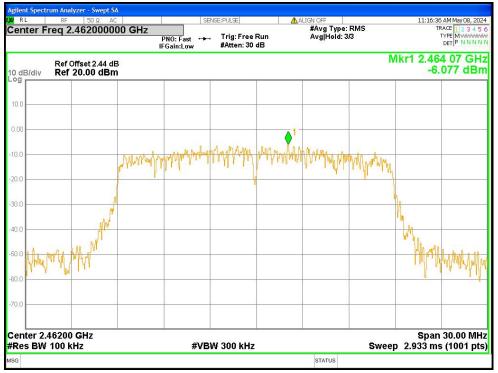
| RL RF          |                               | SENSE:P            | ULSE                          | ALIGN OFF                         | 11:12:28 AM May 08, 20  |
|----------------|-------------------------------|--------------------|-------------------------------|-----------------------------------|---|
| enter Freq '   | 13.265000000 GHz              | PNO: East +++ T    | rig: Free Run<br>Atten: 30 dB | #Avg Type: RMS<br>Avg Hold: 20/20 | TRACE 1 2 3 4<br>TYPE MWMM<br>DET P N N N   |
|                | Offset 2.45 dB<br>f 20.00 dBm |                    |                               |                                   | Mkr1 2.435 2 GH<br>-6.068 dB  |
| 0.0            |                               |                    |                               |                                   |   |
| 00             | 1                             |                    |                               |                                   |   |
| 1.0            |                               |                    |                               |                                   | 6) (2)  |
| .0             | A3                            |                    |                               |                                   | -26.75  |
| .0             | Y                             |                    |                               |                                   |   |
| .0             |                               | ×45                |                               |                                   | - I de la constantino |
| .0             |                               |                    | يس جول الاعدو ال              |                                   |   |
|                |                               |                    |                               |                                   | 0   |
| art 30 MHz     |                               |                    |                               |                                   | Stop 26.50 G  |
| tes BW 100     | kHz                           | #VBW 3             | 00 kHz                        |                                   | Sweep 2.530 s (30001 p  |
| R MODE TRC SCL | ×                             | Y<br>Hz -6.068 dBm |                               | FUNCTION WIDTH                    | FUNCTION VALUE  |
| N 1 f          | 4.874 9 G                     | Hz -35.438 dBm     | n l                           |                                   |   |
|                | 4.874 9 G<br>7.311 9 G        |                    |                               |                                   |   |
| N 1 f          |                               | Hz -55.307 dBm     | 1                             |                                   |   |
| N 1 f          | 9.576 8 G                     | 12 00.001 uE1      |                               |                                   |   |
| N 1 f<br>N 1 f | 9.576 8 G                     |                    |                               |                                   |   |
| N 1 f<br>N 1 f | 9.576 8 G                     |                    |                               |                                   |   |
| N 1 f<br>N 1 f | 9.576 8 G                     |                    |                               |                                   |   |





Tx. Spurious NVNT n20 2462MHz Ant1 Ref

| RL                     | RF 50 Ω AC                          |                                | SENSE:P                    | ULSE                          | ALIGN OFF             |          | 11:16:52 AM May 08, 2                     |
|------------------------|-------------------------------------|--------------------------------|----------------------------|-------------------------------|-----------------------|----------|---|
| enter Fre              | q 13.265000                         | PNC                            |                            | rig: Free Run<br>Atten: 30 dB | #Avg Typ<br>Avg Hold  |          | TRACE 1 2 3 4<br>TYPE MWWW<br>DET P N N N |
|                        | Ref Offset 2.44 di<br>Ref 20.00 dBm |                                |                            |                               |                       |          | Mkr1 2.458 2 GI<br>-6.072 dB              |
| 10                     |                                     |                                |                            |                               |                       |          | 0 10                                      |
|                        | 1                                   |                                |                            |                               |                       |          |   |
| .0                     |                                     |                                |                            |                               |                       |          |   |
|                        |                                     |                                |                            |                               |                       |          |   |
| 0                      |                                     | 3                              |                            |                               |                       |          | -26.08                                    |
|                        | Y                                   |                                |                            |                               |                       |          |   |
| 0                      |                                     | Y                              | 5                          |                               |                       | 10000000 |   |
|                        | and the second second second        | a the second states and second | V.                         | A SALES PROVIDE AND INCOME.   | and the second second |          |   |
| 0                      |                                     |                                | and the official states of |                               |                       |          |   |
|                        |                                     |                                |                            |                               |                       |          |   |
| art 30 MH<br>les BW 10 |                                     |                                | #VBW 3                     | 00 kHz                        |                       | Swee     | Stop 26.50 G<br>ep 2.530 s (30001 p       |
| R MODE TRC             |                                     | ×                              | Y                          | FUNCTION                      | FUNCTION WIDTH        |          | UNCTION VALUE                             |
| N 1                    | f                                   | 2.458 2 GHz<br>4.927 8 GHz     | -6.072 dBn<br>-34.887 dBn  |                               |                       |          |   |
| N 1<br>N 1             | f                                   | 4.927 8 GHz<br>7.385 1 GHz     | -34.887 dBn<br>-44.322 dBn | 1                             |                       |          |   |
| N 1                    | f                                   | 9.718 0 GHz                    | -55.460 dBn                |                               |                       |          |   |
|                        |                                     |                                |                            |                               |                       |          |   |
|                        |                                     |                                |                            |                               |                       |          |   |
|                        |                                     |                                |                            |                               |                       |          |   |
|                        |                                     |                                |                            |                               |                       |          |   |
|                        |                                     |                                |                            |                               |                       |          |   |

Tx. Spurious NVNT n20 2462MHz Ant1 Emission

#### BSL Testing Co.,LTD.

#### Project No.: BSL2405208275096F-1 Page 60 of 74

| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b    | 2412            | Ant1    | -46.87          | -20         | Pass    |
| b    | 2462            | Ant1    | -53.32          | -20         | Pass    |
| g    | 2412            | Ant1    | -41.69          | -20         | Pass    |
| g    | 2462            | Ant1    | -50.98          | -20         | Pass    |
| n20  | 2412            | Ant1    | -38.98          | -20         | Pass    |
| n20  | 2462            | Ant1    | -48.75          | -20         | Pass    |

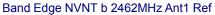


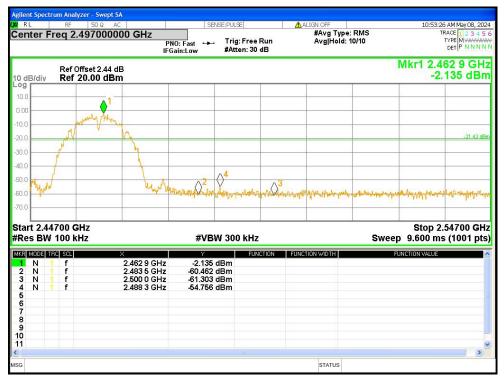
Band Edge NVNT b 2412MHz Ant1 Ref

| RL        | RF 50 Ω                       | AC  | SENSE:PULS               | E                       | ALIGN OFF  |                   | 10:46:59 AM May 08, 2                      |
|-----------|-------------------------------|---|--------------------------|-------------------------|--|-------------------|--|
| enter Fi  | req 2.37700                   | PNC                                       |                          | : Free Run<br>en: 30 dB | #Avg Type<br>Avg Hold:   | :: RMS<br>100/100 | TRACE 1 2 3 4<br>TYPE M WWW<br>DET P N N N |
| dB/div    | Ref Offset 2.4<br>Ref 20.00 ( |   |                          |                         |  | M                 | kr1 2.413 4 GH<br>1.419 dB                 |
|           |                               |   |                          |                         |  |                   | A1   |
|           |                               |   |                          |                         |  | N 10              |  |
|           |                               |   |                          |                         |  | June -            | and hipericale                             |
|           |                               |   |                          |                         |  | 1                 | -18.00                                     |
| 0         |                               |   |                          |                         |  | 1                 | N.   |
| .0        |                               |   |                          |                         |  |                   | 1  |
| .0        |                               |   |                          |                         |  |                   | <b>\</b>                                   |
| o ——      |                               |   |                          |                         |  | A Stat            | the  |
| 0 mm      | when the later when           | the home manufacture of the second second | and the second           | mulappolizard           | some and the second sec |                   | - 1023                                     |
| .0        |                               |   |                          |                         |  |                   |  |
|           |                               |   |                          |                         |  |                   |  |
|           | 700 GHz<br>100 kHz            |   | #VBW 300                 | ) kHz                   |  | Sweep             | Stop 2.42700 G<br>9.600 ms (1001 p         |
| R MODE TF |                               | ×   | Y I                      | FUNCTION                | FUNCTION WIDTH   | FUNC              | TION VALUE                                 |
| N 1       | f                             | 2.413 4 GHz<br>2.400 0 GHz                | 1.419 dBm<br>-51.009 dBm |                         |  |                   |  |
| N 1       | f                             | 2.400 0 GHz                               | -51.009 dBm              |                         |  |                   |  |
| N 1       | f                             | 2.398 0 GHz                               | -44.877 dBm              |                         |  |                   |  |
|           |                               |   |                          |                         |  |                   |  |
|           |                               |   |                          |                         |  |                   |  |
|           |                               |   |                          |                         |  |                   |  |
|           |                               |   |                          |                         |  |                   |  |
|           |                               |   |                          |                         |  |                   |  |

Band Edge NVNT b 2412MHz Ant1 Emission



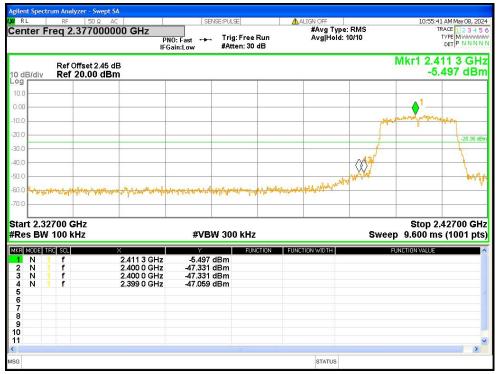




Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref

| RL               | RF     | 50 Ω AC                     |   | SENSE                                  | :PULSE                          | ALIGN OFF              |                       | 11:03:41                | AM May 08, 2                              |
|------------------|--------|-----------------------------|---|--|---------------------------------|------------------------|-----------------------|-------------------------|---|
| nter Fr          | eq 2   | .4970000                    | Р   |  | Trig: Free Run<br>#Atten: 30 dB | #Avg Typ<br>Avg Hold:  |                       | 1                       | ACE 1 2 3 4<br>YPE M WAAAA<br>DET P N N N |
| B/div            |        | Offset 2.44 dl<br>20.00 dBn |   |  |                                 |                        |                       | Mkr1 2.46<br>-4.9       | 62 9 GI<br>948 dB                         |
|                  |        | <u>1</u>                    | 0   |  |                                 |                        |                       | 0                       | -   |
|                  | -      | ownycon                     | -   |  |                                 |                        |                       |                         | -   |
|                  | 1      |                             |   |  |                                 |                        |                       |                         | -25.00                                    |
|                  | ſ      |                             | X   |  |                                 |                        |                       |                         |   |
| H any            |        |                             | Andrea                                    | Man 2                                  |                                 | عملان معر مع مال مع    | and the second second | - Malakaralle ala       | Jun Jones                                 |
| -                |        |                             |   |  |                                 | AA Garren and al Maren | and the second        | and the second second   |   |
| rt 2.44<br>es BW |        |                             |   | #VBW                                   | 300 kHz                         |                        | Swe                   | Stop 2.5<br>ep 9.600 ms |   |
| MODE TE          | ic scl |                             | ×<br>2.462 9 GHz                          | -4.948 dE                              |                                 | FUNCTION WIDTH         |                       | FUNCTION VALUE          |   |
| N 1<br>N 1       | f<br>f |                             | 2.483 5 GHz<br>2.500 0 GHz<br>2.494 5 GHz | -56.843 dE<br>-58.888 dE<br>-55.981 dE | m                               |                        |                       |                         |   |
|                  |        |                             |   |  |                                 |                        |                       |                         |   |
|                  |        |                             |   |  |                                 |                        |                       |                         |   |
|                  |        |                             |   |  |                                 |                        |                       |                         |   |
|                  |        |                             |   |  |                                 |                        |                       |                         |   |

Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref

| RL       | RF 50 \$                  | 2 AC   | SENSE:PUL:                 | æ                       | ALIGN OFF              |      | 11:07:43               | AM May 08, 20                               |
|----------|---------------------------|--|----------------------------|-------------------------|------------------------|------|------------------------|---|
| enter F  | req 2.3770                | 00000 GHz  | 0:East →→ Trig             | : Free Run<br>en: 30 dB | #Avg Type<br>Avg Hold: |      | TR                     | ACE 1 2 3 4 5<br>YPE MWWWW<br>DET P N N N N |
| ) dB/div | Ref Offset 2<br>Ref 20.00 |  |                            |                         |                        |      | Mkr1 2.40<br>-5.0      | 9 1 GH<br>93 dBr                            |
| 2.0      |                           |  |                            |                         |                        | -    |                        |   |
| 00       |                           |  |                            |                         |                        |      | <b>●</b> <sup>1</sup>  |   |
| .0       |                           |  |                            |                         |                        | from | annound a mount        | any   |
| .0       |                           |  |                            |                         |                        |      |                        | -24.77 d                                    |
| .0       |                           |  |                            |                         |                        | 0.8  |                        | -   |
| .0       |                           |  |                            |                         |                        |      |                        | 1   |
| 0        |                           |  | * motor particular         |                         | Restorderugen          | MANY |                        | W   |
| .0       | un Managenerita Mast      | alement all and a second s | a welder an barry the      | uparter a caracteria    | All restant and        |      |                        |   |
| .0       |                           |  |                            |                         |                        |      | 0                      |   |
|          | 2700 GHz<br>100 kHz       |  | #VBW 30                    | ) kHz                   |                        | Swee | Stop 2.4<br>p 9.600 ms |   |
| r Mode T | RC SCL                    | ×<br>2.409 1 GHz   | -5.093 dBm                 | FUNCTION                | FUNCTION WIDTH         | i    | UNCTION VALUE          |   |
| N        | 1 f                       | 2.400 0 GHz  | -43.750 dBm                |                         |                        |      |                        |   |
| N<br>N   | 1 f<br>1 f                | 2.400 0 GHz<br>2.400 0 GHz   | -43.750 dBm<br>-43.750 dBm |                         |                        |      |                        |   |
|          |                           |  |                            |                         |                        |      |                        |   |
|          |                           |  |                            |                         |                        |      |                        |   |
|          |                           |  |                            |                         |                        |      |                        |   |
|          |                           |  |                            |                         |                        |      |                        |   |
|          |                           |  |                            |                         |                        |      |                        | >   |





Band Edge NVNT n20 2462MHz Ant1 Ref

| RL RF   | 50 Ω AC                  |                                     | SENSE:F                                  | PULSE                          | ALIGN OFF  |                        |  | 31 AM May 08, 2                           |
|---|--------------------------|-------------------------------------|--|--------------------------------|--|------------------------|--|---|
| nter Freq 2.4   | 97000000                 | PN                                  |  | ʻrig: Free Run<br>Atten: 30 dB | #Avg Typ<br>Avg Hold:  |                        |  | TRACE 1 2 3 4<br>TYPE MWWW<br>DET P N N 1 |
|   | fset 2.44 dB<br>0.00 dBm |                                     |  |                                | 1  |                        | Mkr1 2.4<br>-5   | 163 8 G<br>.822 dE                        |
| )   |                          |                                     |  | 2                              |  |                        | 0  |   |
| man   | man parman               |                                     |  |                                |  |                        |  |   |
|   | N. N.                    |                                     |  |                                |  |                        |  | -25.40                                    |
|   |                          |                                     |  |                                |  |                        |  | -   |
| and   |                          | handenaus                           | A2)4                                     |                                | 61   |                        |  |   |
|   |                          |                                     |  |                                |  |                        |  |   |
|   |                          |                                     | montallyman                              | PAround a home                 | and and an formation   | man and a way          | -  | apple with                                |
|   | 0                        |                                     | M. Mallyna                               | PArrow Astron                  | ,<br><sub>magintar</sub> and an  | and an entry of a line | a ward and a stand of the stand | apather with                              |
| rt 2.44700 GH<br>s BW 100 kH  |                          |                                     | #VBW 3                                   | BOO KHZ                        | , where any from the second  | swe                    | <del>کر کر ک</del>  |   |
| rt 2.44700 GH<br>es BW 100 kH   | z<br>×                   | 163.8 GHz                           | Y  | FUNCTION                       | FUNCTION WIDTH   | Swe                    |  |   |
| rt 2.44700 GH<br>es BW 100 kH   | Z<br>X<br>2.4<br>2.4     | 163 8 GHz<br>183 5 GHz<br>180 0 GHz | #VBW 3                                   | FUNCTION<br>n<br>n             | estanting and a second part of the second se | Swe                    | ep 9.600 m   |   |
| rt 2.44700 GH<br>es BW 100 kH<br>MODE TRC SCL<br>N 1 f                  | Z<br>2.4<br>2.4<br>2.5   | 183 5 GHz                           | -5.822 dBr<br>-57.001 dBr                | FUNCTION<br>n<br>n             | FUNCTION WIDTH   | Swe                    | ep 9.600 m   |   |
| MODE TRC SCL<br>N 1 f<br>N 1 f<br>N 1 f                                 | Z<br>2.4<br>2.4<br>2.5   | 183 5 GHz<br>500 0 GHz              | -5.822 dBr<br>-57.001 dBr<br>-59.043 dBr | FUNCTION<br>n<br>n             | FUNCTION WIDTH   | Swe                    | ep 9.600 m   |   |
| TT 2.44700 GH<br>S BW 100 KH<br>MODE TFC SCL<br>N 1 f<br>N 1 f<br>N 1 f | Z<br>2.4<br>2.4<br>2.5   | 183 5 GHz<br>500 0 GHz              | -5.822 dBr<br>-57.001 dBr<br>-59.043 dBr | FUNCTION<br>n<br>n             | FUNCTION WIDTH   | Swe                    | ep 9.600 m   |   |
| MODE TRC SCL<br>N 1 f<br>N 1 f<br>N 1 f                                 | Z<br>2.4<br>2.4<br>2.5   | 183 5 GHz<br>500 0 GHz              | -5.822 dBr<br>-57.001 dBr<br>-59.043 dBr | FUNCTION<br>n<br>n             | FUNCTION WIDTH   | Swe                    | ep 9.600 m   | 2.54700 G<br>s (1001 p                    |

Band Edge NVNT n20 2462MHz Ant1 Emission

#### **10. CHANNEL BANDWIDTH**

| Test Requirement: | RSS-Gen 6.7 |
|-------------------|-------------|
| Test Method:      | RSS-Gen     |

## **10.1 CONFORMANCE LIMIT**

No limit requirement.

#### **10.2 TEST PROCEDURE**

The EUT was operating in Bluetooth transmitter mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1-5% of 99% occupied bandwidth.

Set the video bandwidth (VBW)  $\geq$ 3\*RBW.

Set Span= approximately 2 to 3 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies. Measure and record the results in the test report.

#### **10.3 DEVIATION FROM STANDARD**

No deviation.

10.4 TEST SETUP

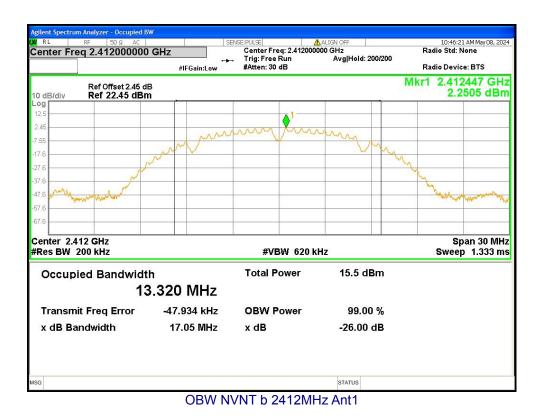
| EUT | SPECTRUM |
|-----|----------|
|     | ANALYZER |

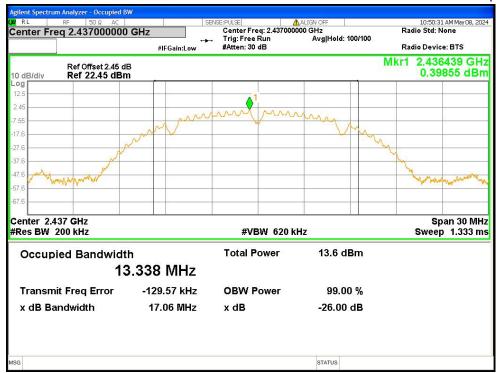
#### **10.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

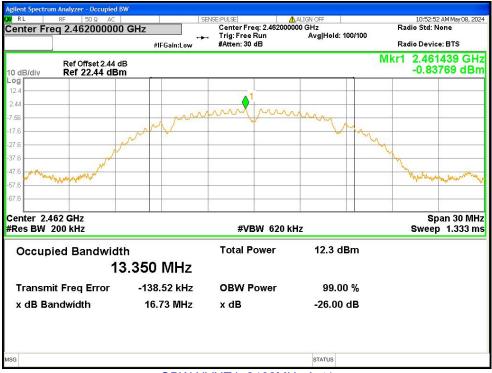
### **10.6 TEST RESULTS**

| Mode | Channel Frequency<br>(MHz) | 99% Occupied Bandwidth (MHz) | Verdict |
|------|----------------------------|------------------------------|---------|
| b    | 2412                       | 13.320                       | PASS    |
| b    | 2437                       | 13.338                       | PASS    |
| b    | 2462                       | 13.350                       | PASS    |
| g    | 2412                       | 16.312                       | PASS    |
| g    | 2437                       | 16.323                       | PASS    |
| g    | 2462                       | 16.334                       | PASS    |
| n20  | 2412                       | 17.310                       | PASS    |
| n20  | 2437                       | 17.320                       | PASS    |
| n20  | 2462                       | 17.314                       | PASS    |





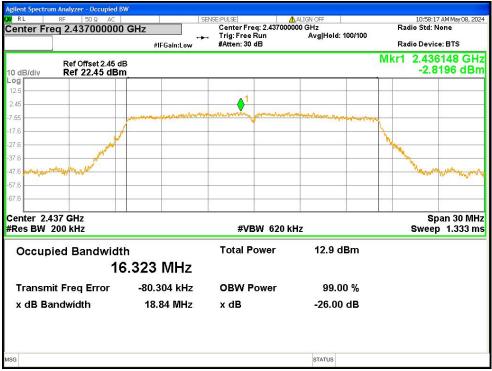
## OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1

| Agilent Spectrum Analyzer - Occupied    |             |                                  |                   |      |  |
|---|-------------|----------------------------------|-------------------|------|--|
| RL RF 50 Ω AC<br>Center Freq 2.41200000 |             | Center Freq: 2.412000            |                   | Radi | 10:55:08 AM May 08, 2024<br>o Std: None  |
|   | #IFGain:Low | Trig: Free Run<br>#Atten: 30 dB  | Avg Hold: 100/100 | Radi | o Device: BTS  |
| Ref Offset 2.45 of Ref 22.45 dB         |             |                                  |                   | Mkr1 | 2.410281 GHz<br>-2.3918 dBm  |
| Log<br>12.5                             |             |                                  |                   |      |  |
| 2.45                                    |             | <u>_1</u>                        |                   |      |  |
| -7.55                                   | manamenton  | anone and a second second second | unnan many lan    |      |  |
| -17.6                                   | 1           |                                  |                   | 1    |  |
| -27.6                                   | <u></u>     |                                  |                   | Man  |  |
| -37.6                                   |             |                                  |                   | M    | 0  |
| -47.6 man Manuel What                   |             |                                  |                   |      | Joseph March |
| -57.6                                   |             |                                  |                   |      |  |
| -67.6                                   |             |                                  | 8                 |      | 0  |
| Center 2.412 GHz<br>#Res BW 200 kHz     |             | #VBW 6201                        | ٢Hz               |      | Span 30 MHz<br>Sweep   1.333 ms  |
| Occupied Bandwid                        | th          | Total Power                      | 13.6 dBm          |      |  |
| 1                                       | 6.312 MHz   |                                  |                   |      |  |
| Transmit Freq Error                     | -57.008 kHz | <b>OBW Power</b>                 | 99.00 %           |      |  |
| x dB Bandwidth                          | 19.03 MHz   | x dB                             | -26.00 dB         |      |  |
|   |             |                                  |                   |      |  |
| MSG                                     |             |                                  | STATUS            |      |  |

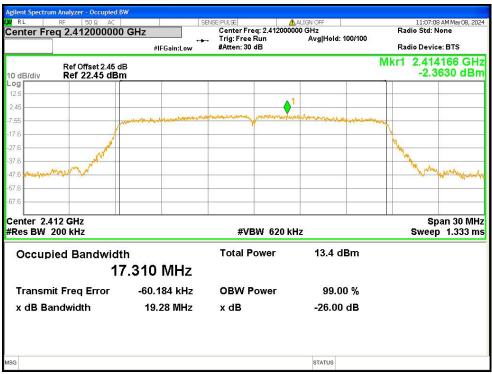
## OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1

| Agnenit Spectru<br>LXI R L   | rum Analyzer - Occupied B\<br>RF 50 Ω AC | <i>•</i>              | SENSE:PULSE                       | ALIGN OFF                            |       | 11:03:15 AM May 08, 2024             |
|--|--|-----------------------|-----------------------------------|--------------------------------------|-------|--------------------------------------|
|  | req 2.462000000                          | GHz                   | Center Freq: 2.462000             | 0000 GHz                             | Ra    | dio Std: None                        |
|  | 7  | #IFGain:Low           |                                   | Avg Hold: 100/100                    | Ra    | dio Device: BTS                      |
| -  |  | #II Gam.cow           |                                   |                                      | Mkr1  |                                      |
| 10 dB/div  | Ref Offset 2.44 dE<br>Ref 22.44 dBm      |                       |                                   |                                      | IVINI | -2.7234 dBm                          |
| Log<br>12.4  |  |                       |                                   |                                      |       |                                      |
| 2.44   |  |                       | A1                                |                                      |       |                                      |
| -7.56  |  | want of more many and | south and a second and the second | and management managements           |       |                                      |
| -17.6  |  |                       |                                   | a second second second second second |       |                                      |
| -17.6  | NIM M                                    |                       |                                   |                                      | N.    |                                      |
| -27.6  | abres                                    |                       |                                   |                                      | N.H.  | n.                                   |
| -37.6  | work all some la bet                     |                       |                                   |                                      |       | When any when the man when the start |
| and a second |  |                       |                                   |                                      |       |                                      |
| -57.6  |  |                       |                                   |                                      |       |                                      |
| -67.6  |  |                       |                                   |                                      |       |                                      |
| Center 2.  |  | i                     |                                   |                                      | _     | Span 30 MHz                          |
| #Res BW  | 200 KMZ                                  |                       | #VBW 620 k                        | (HZ                                  |       | Sweep 1.333 ms                       |
| Occup  | pied Bandwidt                            | h                     | <b>Total Power</b>                | 13.7 dBm                             |       |                                      |
|  | 16                                       | 6.334 MHz             |                                   |                                      |       |                                      |
| Transn   | nit Freq Error                           | -75.999 kHz           | <b>OBW Power</b>                  | 99.00 %                              |       |                                      |
| x dB B   | andwidth                                 | 19.30 MHz             | x dB                              | -26.00 dB                            |       |                                      |
|  |  |                       |                                   |                                      |       |                                      |
|  |  |                       |                                   |                                      |       |                                      |
| MSG  |  |                       |                                   | STATUS                               |       |                                      |

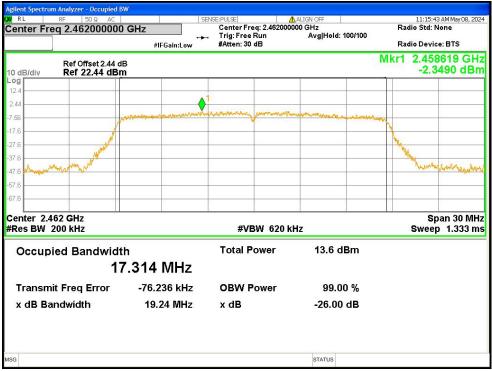
OBW NVNT g 2462MHz Ant1



OBW NVNT n20 2412MHz Ant1

| Agilent Spectrum Analyzer - Occupied B       |   |   | <i></i>          |                                  |                                 |                       |                                |           |
|--|---|---|------------------|----------------------------------|---------------------------------|-----------------------|--------------------------------|-----------|
| RL RF 50 Ω AC Center Freq 2.437000000        |   | SENSE:PULSE<br>Center Freq<br>Trig: Free Ri | : 2.43700000     | LIGN OFF<br>0 GHz<br>Avg Hold: ' | 100/100                         | Rad                   | 11:10:59 AM M<br>lio Std: None |           |
| #IFGain:Low #Atten: 30 dB                    |   |   |                  |                                  |                                 | Radio Device: BTS     |                                |           |
| Ref Offset 2.45 d<br>10 dB/div Ref 22.45 dBn |   |   |                  |                                  |                                 | Mkr1                  | 2.43423<br>-2.314              |           |
| 12.5   |   |   |                  |                                  |                                 |                       |                                |           |
| 2.45   |   | <b>●</b> <sup>1</sup>                       |                  |                                  |                                 |                       |                                |           |
| -7.55  | and the second states and a second states and the | wednesdamment of                            | hundralinimister | and the literation               | fertherenge who                 | and the second second | 0                              |           |
| -17.6  | <u> </u>  |   |                  |                                  | -                               |                       |                                |           |
| -27.6  | <u></u>   |   |                  |                                  |                                 | 1                     |                                |           |
| -37.6  |   |   |                  |                                  |                                 | 7                     | Mr. Nu                         |           |
| -47.6  |   |   |                  |                                  |                                 |                       | and a draw                     | Manager . |
| -57.6  |   |   |                  |                                  |                                 |                       |                                |           |
|  |   |   |                  |                                  |                                 |                       |                                |           |
| Center 2.437 GHz<br>#Res BW 200 kHz          | #VBW 620 kHz                                      |   |                  |                                  | Span 30 MHz<br>Sweep   1.333 ms |                       |                                |           |
| Occupied Bandwidth                           |   | Total Power                                 |                  | 12.7 d                           | 12.7 dBm                        |                       |                                |           |
| 17   | 7.320 MHz   |   |                  |                                  |                                 |                       |                                |           |
| Transmit Freq Error                          | -85.182 kHz                                       | OBW Power 9                                 |                  | 99.0                             | 99.00 %                         |                       |                                |           |
| x dB Bandwidth                               | 19.21 MHz   | x dB  |                  | -26.00 dB                        |                                 |                       |                                |           |
|  |   |   |                  |                                  |                                 |                       |                                |           |
| MSG  |   |   |                  | STATUS                           |                                 |                       |                                |           |

## OBW NVNT n20 2437MHz Ant1



OBW NVNT n20 2462MHz Ant1

# **11. ANTENNA REQUIREMENT**

| F   |   |  |  |  |  |
|---|---|--|--|--|--|
| Standard requirement:   | FCC Part15 C Section 15.203 /247(c)   |  |  |  |  |
|   | RSS-Gen Section 6.8, RSS-247 Section 5.4  |  |  |  |  |
| 15.203 requirement:   |   |  |  |  |  |
| be used with the device. The use of a intentional radiator, the manufacturer muse of a standard antenna jack or elect   | It to ensure that no antenna other than that furnished by the responsible party shall<br>a permanently attached antenna or of an antenna that uses a unique coupling to the<br>hay design the unit so that a broken antenna can be replaced by the user, but the<br>prical connector is prohibited. |  |  |  |  |
| 15.247(c) (1)(i) requirement:   |   |  |  |  |  |
| (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. |   |  |  |  |  |
| For intentional device, according to RSS-Gen Issue 5 Section 6.8:   |   |  |  |  |  |
| The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.   |   |  |  |  |  |
| Licence-exempt transmitters that have received equipment certification may operate with different types of antennas.<br>However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in<br>the applicable standard (RSS) for licence-exempt apparatus.  |   |  |  |  |  |
| RSS-247 Section 5.4   |   |  |  |  |  |
| employ transmitting antennas with direct  | 5 MHz band that is used exclusively for fixed. Point-to-point operations may ctional gain greater than 6dBi provided the maximum conducted output power of dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.   |  |  |  |  |
| EUT Antenna:  |   |  |  |  |  |
| The WIFI 2.4G antenna is PCB Antenna, the best case gain for the antenna is -0.51dBi, reference to the appendix II for details  |   |  |  |  |  |

## **12. TEST SETUP PHOTO**

Reference to the appendix I for details.

## **13. EUT CONSTRUCTIONAL DETAILS**

Reference to the appendix II for details.

**\*\*\*\*\*\* END OF REPORT \*\*\*\*\***