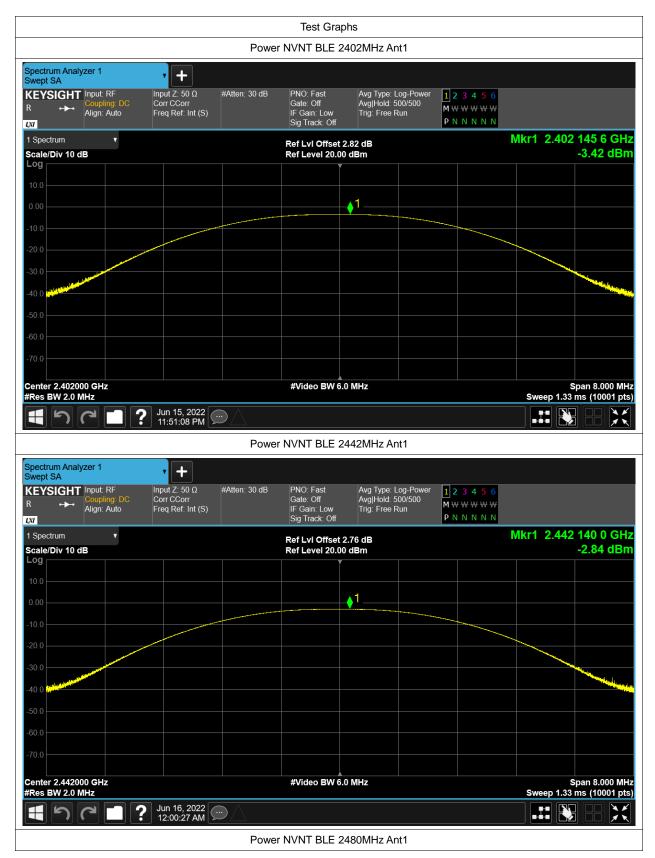


#### **Test Data**

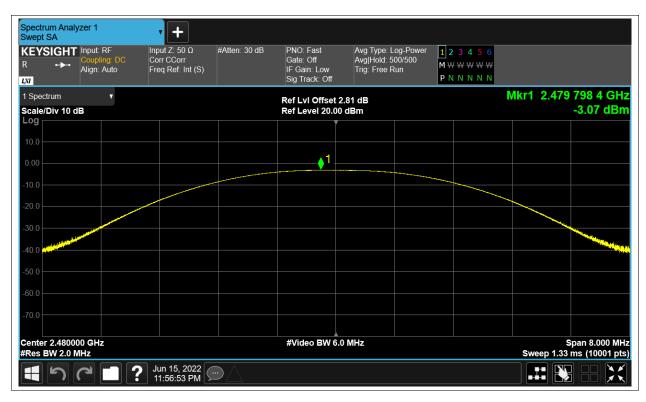
## **Maximum Conducted Output Power**

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | BLE  | 2402            | Ant1    | -3.424                | 30          | Pass    |
| NVNT      | BLE  | 2442            | Ant1    | -2.839                | 30          | Pass    |
| NVNT      | BLE  | 2480            | Ant1    | -3.068                | 30          | Pass    |











## -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | limit | Verdic |
|-----------|------|-----------------|---------|-----------------------|-------|--------|
| NVNT      | BLE  | 2402            | Ant1    | 0.66                  | 0.5   | Pass   |
| NVNT      | BLE  | 2442            | Ant1    | 0.661                 | 0.5   | Pass   |
| NVNT      | BLE  | 2480            | Ant1    | 0.662                 | 0.5   | Pass   |







| Spectru<br>Occupie | m Analy<br>ed BW | zer 1                              |   | •                                  | -            |              |  |          |  |    |  |                              |
|--------------------|------------------|------------------------------------|---|------------------------------------|--------------|--------------|--|----------|--|----|--|------------------------------|
| R<br>R             | IGHT<br>·≁·      | Input: Rf<br>Coupling<br>Align: Au | j: DC                                   | Input Z: 5<br>Corr CCc<br>Freq Ref | rr           | Atten: 30 dB | Trig: Free Run<br>Gate: Off<br>#IF Gain: Low |          | req: 2.480000000 GH<br>I: 500/500<br>d: None | łz |  |                              |
| 1 Graph            |                  | · · · · ·                          | v                                       |                                    |              |              | Ref LvI Offset                               | 2 81 dB  |  | Mk | r3 2.4803  | 28000 GHz                    |
| Scale/D            | 0iv 10.0         | dB                                 |   |                                    |              |              | Ref Value 22.                                |          |  |    |  | -9.57 dBm                    |
| Log<br>12.8        |                  |                                    |   |                                    |              |              |  |          |  |    |  |                              |
| 2.81               |                  |                                    |   |                                    |              | <u>2</u>     |  |          |  |    |  |                              |
| -7.19              |                  |                                    |   |                                    |              | - Verson     | ······································       |          |  |    |  |                              |
| -17.2              |                  |                                    | ~                                       |                                    |              |              |  |          |  |    |  |                              |
| -37.2 🚞            |                  |                                    | and |                                    |              |              |  |          |  |    | and the second |                              |
| -47.2<br>-57.2     |                  |                                    |   |                                    |              |              |  |          |  |    |  |                              |
| -67.2              |                  |                                    |   |                                    |              |              |  |          |  |    |  |                              |
| Center<br>#Res B   |                  |                                    |   |                                    | •            |              | #Video BW 30                                 | 0.00 kHz |  | 8  | Sweep 1.33   | Span 2 MHz<br>ms (10001 pts) |
| 2 Metric           | s                |                                    | v                                       |                                    |              |              |  |          |  |    |  |                              |
|                    |                  |                                    |   |                                    |              |              |  |          |  |    |  |                              |
|                    |                  | Occi                               | upied Bar                               | adwidth                            |              |              |  |          |  |    |  |                              |
|                    |                  |                                    |   | 1.0508                             | MHz          |              |  |          | Total Power                                  |    | 3.10 dBm   |                              |
|                    |                  |                                    | smit Fred                               |                                    |              | -2.749 kHz   |  |          | % of OBW Powe                                | er | 99.00 %  |                              |
|                    |                  | x dB                               | Bandwic                                 | ith                                |              | 662.5 kHz    |  |          | x dB   |    | -6.00 dB   |                              |
|                    |                  |                                    |   |                                    |              |              |  |          |  |    |  |                              |
|                    | 5                |                                    | ]?                                      | Jun 15,<br>11:57:1                 | 2022<br>0 PM |              |  |          |  |    |  |                              |



## **Occupied Channel Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | BLE  | 2402            | Ant1    | 1.044270447   |
| NVNT      | BLE  | 2442            | Ant1    | 1.042228003   |
| NVNT      | BLE  | 2480            | Ant1    | 1.041188879   |











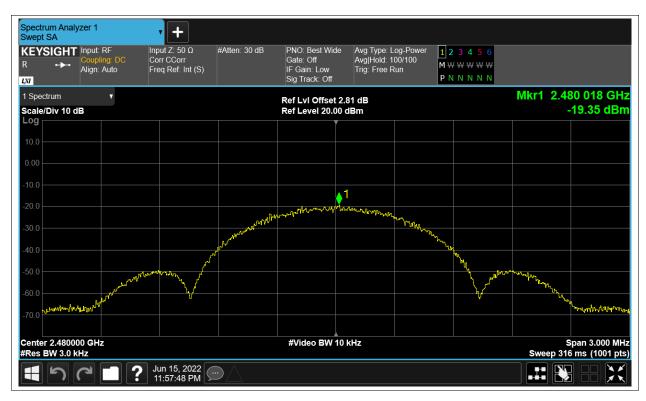
# **Maximum Power Spectral Density Level**

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------|---------|
| NVNT      | BLE  | 2402            | Ant1    | -19.735       | 8           | Pass    |
| NVNT      | BLE  | 2442            | Ant1    | -19.177       | 8           | Pass    |
| NVNT      | BLE  | 2480            | Ant1    | -19.346       | 8           | Pass    |











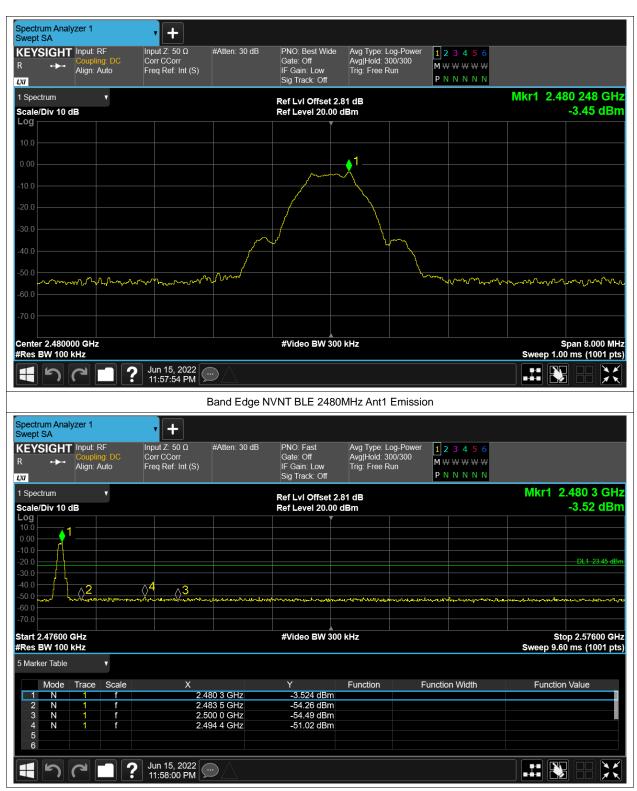
## **Band Edge**

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE  | 2402            | Ant1    | -46.83          | -20         | Pass    |
| NVNT      | BLE  | 2480            | Ant1    | -47.56          | -20         | Pass    |



|                              |  |  |  | Test Graph  | IS   |  |                      |                              |
|------------------------------|--|--|--|---|--|--|----------------------|------------------------------|
|                              |  |  | Band Edg                               | e NVNT BLE 24   | 02MHz Ant1 Ref   |  |                      |                              |
| Spectrum Ana<br>Swept SA     | alyzer 1                                   | • +  |  |   |  |  |                      |                              |
|                              | T Input: RF<br>Coupling: DC<br>Align: Auto | Input Z: 50 Ω<br>Corr CCorr<br>Freq Ref: Int (S) | #Atten: 30 dB                          | PNO: Best Wide<br>Gate: Off<br>IF Gain: Low<br>Sig Track: Off | Avg Type: Log-Power<br>Avg Hold: 300/300<br>Trig: Free Run | 1 2 3 4 5 6<br>M₩₩₩₩₩₩<br>P N N N N N  |                      |                              |
| 1 Spectrum                   | •  |  |  | Ref LvI Offset 2.   |  |  | Mkr1 2.402           |                              |
| Scale/Div 10                 | dB   |  |  | Ref Level 20.00   | dBm  |  | -4                   | 4.00 dBm                     |
| 10.0                         |  |  |  |   |  |  |                      |                              |
| 0.00                         |  |  |  |   | - <b>•</b> 1   |  |                      |                              |
| -10.0                        |  |  |  |   | ~^   |  |                      |                              |
| -20.0                        |  |  |  |   |  |  |                      |                              |
| -30.0                        |  |  |  |   |  |  |                      |                              |
| -40.0                        |  |  | <u>_</u>                               |   |  |  |                      |                              |
| -50.0                        | 0.0.0                                      |  | mmm                                    |   |  | han word                               |                      |                              |
| -60.0                        | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~     | Munu man   |  |   |  | ······································ | L.M.                 | ~~~ V ~~ V                   |
| -70.0                        |  |  |  |   |  |  |                      |                              |
| Center 2.402                 | 000 GHz                                    |  |  | #Video BW 300   | kHz  |  | Spa                  | an 8.000 MHz                 |
| #Res BW 100                  |  |  |  |   |  |  | Sweep 1.00 n         |                              |
| 1                            |  | <b>?</b> Jun 15, 2022<br>11:52:13 PM             | $\square$                              |   |  |  |                      |                              |
|                              |  |  | Band Edge N                            | VNT BLE 2402  | MHz Ant1 Emissi  | on                                     |                      |                              |
| Spectrum Ana<br>Swept SA     | alyzer 1                                   | <b>•</b> +                                       |  |   |  |  |                      |                              |
| KEYSIGH                      | T Input: RF<br>Coupling: DC                | Input Z: 50 Ω<br>Corr CCorr                      | #Atten: 30 dB                          | PNO: Fast<br>Gate: Off  | Avg Type: Log-Power<br>Avg Hold: 300/300                   |  |                      |                              |
| R ↔→•                        | Align: Auto                                | Freq Ref: Int (S)                                |  | IF Gain: Low<br>Sig Track: Off                                | Trig: Free Run   | M ₩ ₩ ₩ ₩ ₩<br>P N N N N N             |                      |                              |
| 1 Spectrum                   | •  |  |  | Ref LvI Offset 2.   | 82 dB  |  | Mkr1 2.4             | 02 3 GHz                     |
| Scale/Div 10                 | dB   |  |  | Ref Level 20.00   |  |  | +                    | 3.67 dBm                     |
| 10.0                         |  |  |  |   |  |  |                      | <b>1</b>                     |
| -10.0                        |  |  |  |   |  |  |                      | DL1-24.00 dBm                |
| -30.0                        |  |  |  |   | . A  |  |                      |                              |
| -50.0 rh. p                  | morten Anonsmennet                         | panyelhoppall/parrylelalion-ang                  | بالم                                   | where we are the second                                       | A  | Roothing                               | Anthony and a second | $\sim 2$                     |
| -60.0                        |  |  |  |   |  |  |                      |                              |
| Start 2.30600<br>#Res BW 100 |  |  |  | #Video BW 300   | kHz  |  | Stop<br>Sweep 9.60 n | 2.40600 GHz<br>1s (1001 pts) |
| 5 Marker Table               |  |  |  |   |  |  |                      |                              |
| Mode                         | Trace Sca                                  |  | 402.2 CH                               | Y<br>2.667 dBm  | Function   | Function Width                         | Function V           | alue                         |
| 1 N<br>2 N<br>3 N            | 1 f<br>1 f                                 | 2  | .402 3 GHz<br>.400 0 GHz<br>.390 0 GHz | -3.667 dBm<br>-52.77 dBm<br>-54.42 dBm                        |  |  |                      |                              |
| 4 N                          | 1 f  |  | .359 3 GHz                             | -50.84 dBm  |  |  |                      |                              |
| 6                            |  |  |  |   |  |  |                      |                              |
| <b>エ</b> ち                   |  | <b>11:52:19 PM</b>                               |  |   |  |  |                      |                              |
|                              |  | • 11.52.19 PM                                    |  |   |  |  |                      |                              |







# **Conducted RF Spurious Emission**

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE  | 2402            | Ant1    | -41.4           | -20         | Pass    |
| NVNT      | BLE  | 2442            | Ant1    | -42.78          | -20         | Pass    |
| NVNT      | BLE  | 2480            | Ant1    | -43.34          | -20         | Pass    |



