

Test Data

Maximum Conducted Output Power

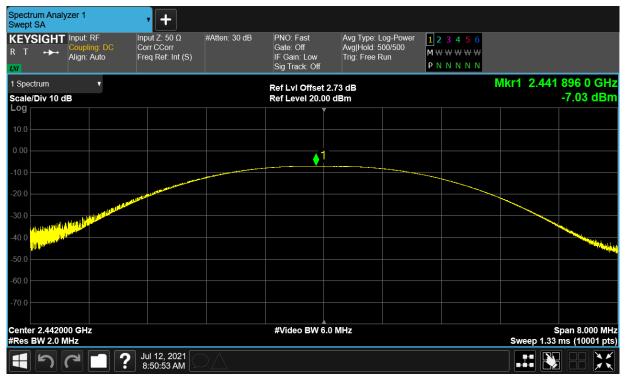
| Condition | Mode | Frequency | Antenna | Conducted Power | Duty Factor | Total Power | Limit | Verdict |
|-----------|------|-----------|---------|-----------------|-------------|-------------|-------|---------|
| | | (MHz) | | (dBm) | (dB) | (dBm) | (dBm) | |
| NVNT | BLE | 2402 | Ant1 | -7.844 | 0 | -7.844 | 30 | Pass |
| NVNT | BLE | 2442 | Ant1 | -7.028 | 0 | -7.028 | 30 | Pass |
| NVNT | BLE | 2480 | Ant1 | -5.867 | 0 | -5.867 | 30 | Pass |

Power NVNT BLE 2402MHz Ant1

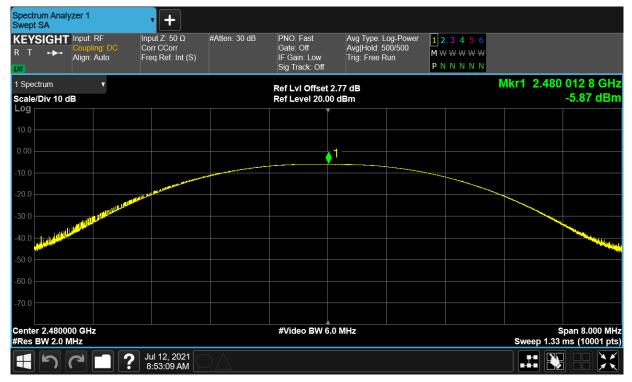




Power NVNT BLE 2442MHz Ant1



Power NVNT BLE 2480MHz Ant1



-6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | BLE | 2402 | Ant1 | 0.657 | 0.5 | Pass |
| NVNT | BLE | 2442 | Ant1 | 0.66 | 0.5 | Pass |

JianYan Testing Group Shenzhen Co., Ltd.

Project No.: JYTSZE2107006

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| | r | | | | | |
|------|-----|------|------|-------|-----|------|
| NVNT | BLE | 2480 | Ant1 | 0.658 | 0.5 | Pass |

-6dB Bandwidth NVNT BLE 2402MHz Ant1

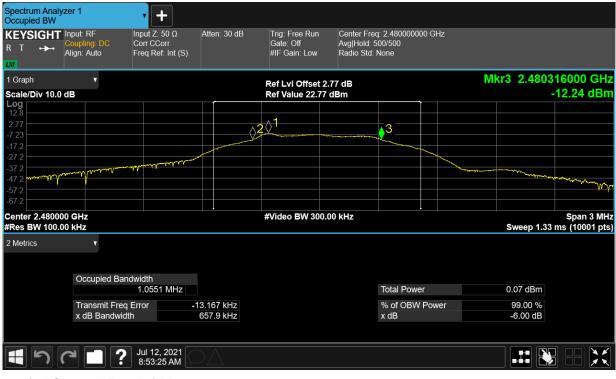




JianYan Testing Group Shenzhen Co., Ltd. Pi No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366



-6dB Bandwidth NVNT BLE 2480MHz Ant1



Occupied Channel Bandwidth

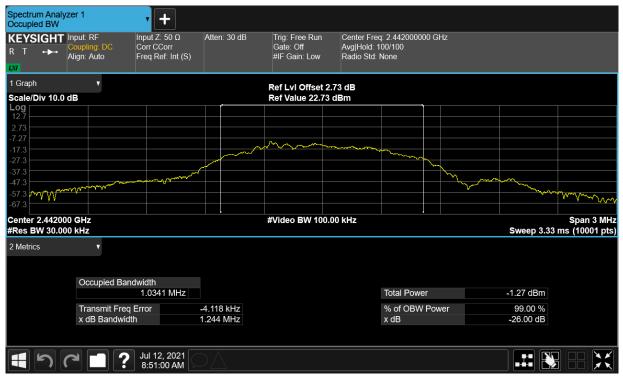
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT | BLE | 2402 | Ant1 | 1.0196797 |
| NVNT | BLE | 2442 | Ant1 | 1.034135177 |
| NVNT | BLE | 2480 | Ant1 | 1.029498551 |



OBW NVNT BLE 2402MHz Ant1



OBW NVNT BLE 2442MHz Ant1





OBW NVNT BLE 2480MHz Ant1

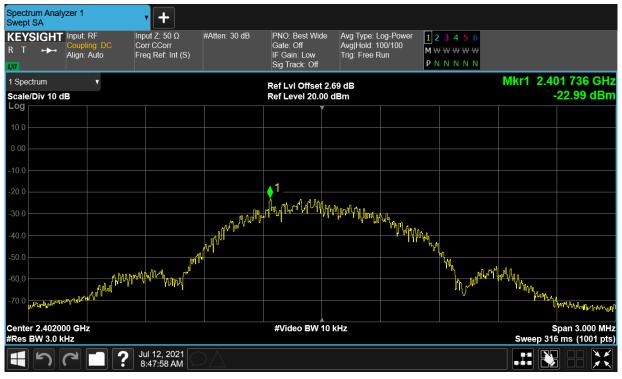


Maximum Power Spectral Density Level

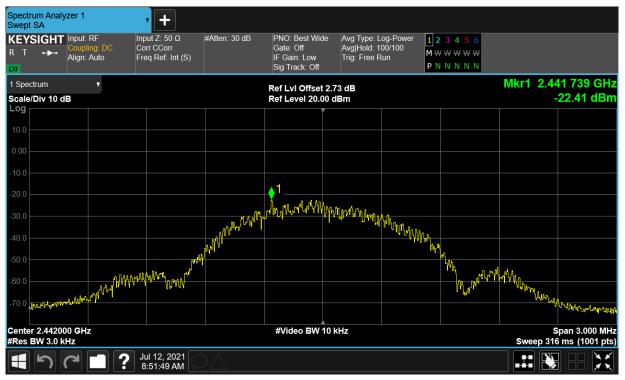
| Condition | Mode | Mode Frequency (MHz) Ante | | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|---------------------------|------|---------------|-------------|---------|
| NVNT | BLE | 2402 | Ant1 | -22.994 | 8 | Pass |
| NVNT | BLE | 2442 | Ant1 | -22.407 | 8 | Pass |
| NVNT | BLE | 2480 | Ant1 | -21.235 | 8 | Pass |



PSD NVNT BLE 2402MHz Ant1



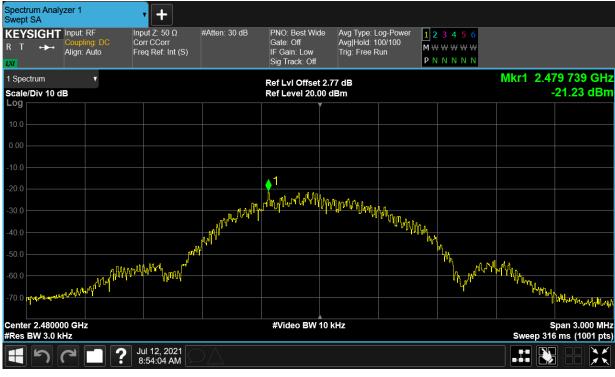
PSD NVNT BLE 2442MHz Ant1



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PSD NVNT BLE 2480MHz Ant1

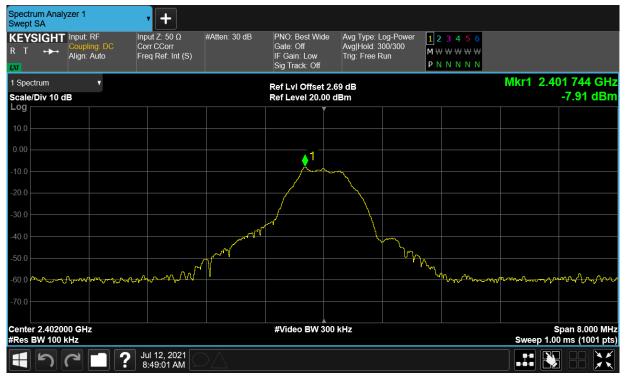


Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE | 2402 | Ant1 | -47.59 | -20 | Pass |
| NVNT | BLE | 2480 | Ant1 | -49.79 | -20 | Pass |



Band Edge NVNT BLE 2402MHz Ant1 Ref

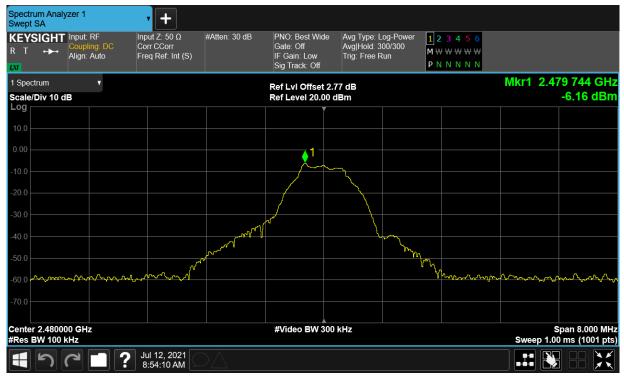


Band Edge NVNT BLE 2402MHz Ant1 Emission

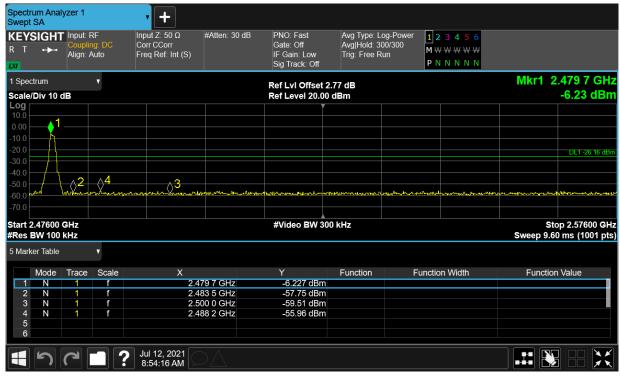
| Spectrum Anal Swept SA | yzer 1 | | • + | | | | | | | |
|------------------------------|---------------------------------|----------------|--|--|--|---|--|---|---|----------------------------------|
| KEYSIGHT R T +>-+ | Input: F Couplin Align: A | ng: DC | Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) | #Atten: 30 dB | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off | Avg Type: L Avg Hold: 3(Trig: Free R | 00/300 | 1 2 3 4 5 6 M \therefore \therefo | | |
| 1 Spectrum Scale/Div 10 (| dB | v | | | Ref LvI Offset Ref Level 20.0 | | | | Mkr1 2 | .401 7 GHz -7.82 dBm |
| Log | | | | | Ţ | | | | | |
| 10.0 | | | | | | | | | | . 1 |
| 0.00 | | | | | | | | | | \ ' |
| -20.0 | | | | | | | | | | |
| -30.0 | | | | | | | | | | DL1 -27.91 dBn |
| 40.0 | » / | | | | | | | | | |
| -50.0 | 2 4 | | | | | | | | <u>+3</u> | <u>,</u> |
| -60.0 | يە دە مەر يارىلە رو | and the second | and the second | and had an of the second of the second s | ℨ℁Åℯℴℴ⅃ℯℴℂℙⅈ⅄ⅉⅅⅈℯℳⅅ℆ℾℴℊⅈℊ℈℩ | ูกการสาราช _า การสาราชาชุม กราช | the should be a set of the second of the second | เงาะมูปะกรุ่งไปกัจจะมีการใหญ่สาย | pernetering with the styles in the second | ใหม่แรก/ภูามี เราสูกเ |
| | | | | | | | | | | |
| Start 2.30600 #Res BW 100 | | | | | #Video BW 3 | 00 kHz | | | | op 2.40600 GH: 0 ms (1001 pts |
| 5 Marker Table | | T | | | | | | | | |
| Mode | Trace | Scale | Х | | Y | Function | F | unction Width | Functior | n Value |
| 1 N 2 N | 1 | f | | 01 7 GHz 00 0 GHz | -7.824 dBm -58.41 dBm | | | | | |
| 2 N 3 N | 1 | f | | 90 0 GHZ | -59.68 dBm | | | | | |
| 4 N | 1 | f | | 11 8 GHz | -55.51 dBm | | | | | |
| 5 6 | | | | | | | | | | |
| ב | 6 | - ? | Jul 12, 2021 8:49:07 AM | | | | | | | |



Band Edge NVNT BLE 2480MHz Ant1 Ref



Band Edge NVNT BLE 2480MHz Ant1 Emission



Conducted RF Spurious Emission

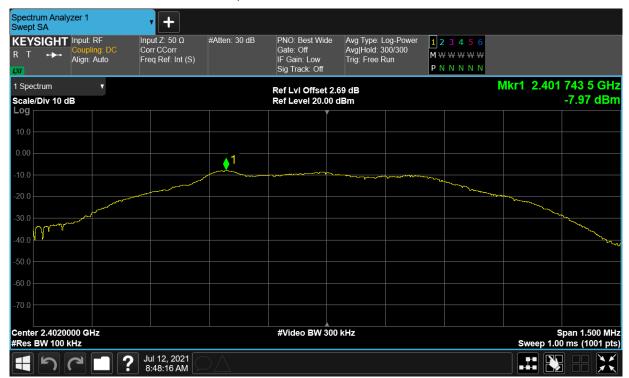
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE | 2402 | Ant1 | -42.77 | -20 | Pass |
| NVNT | BLE | 2442 | Ant1 | -43.71 | -20 | Pass |

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| NVNT BL | BLE 2480 | Ant1 | -44.61 | -20 | Pass |
|---------|----------|------|--------|-----|------|
|---------|----------|------|--------|-----|------|



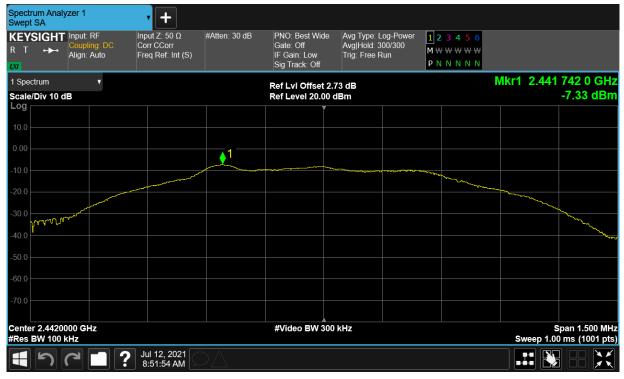
Tx. Spurious NVNT BLE 2402MHz Ant1 Ref

Tx. Spurious NVNT BLE 2402MHz Ant1 Emission





Tx. Spurious NVNT BLE 2442MHz Ant1 Ref

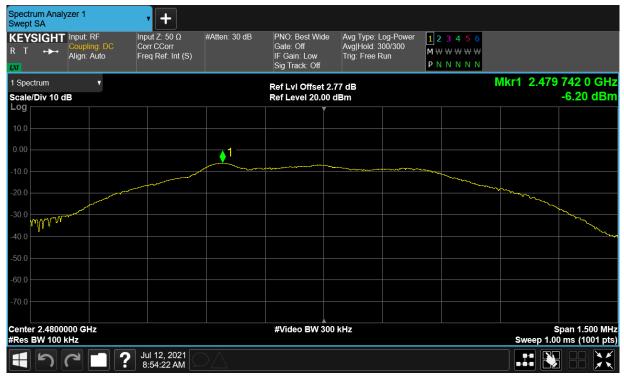


Tx. Spurious NVNT BLE 2442MHz Ant1 Emission





Tx. Spurious NVNT BLE 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2480MHz Ant1 Emission

