

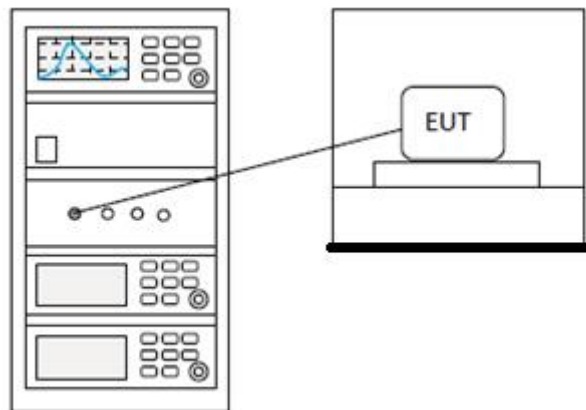
18 MINIMUM 6DB BANDWIDTH

| | |
|------------------------|-----------------------------------|
| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
| Test Method | ANSI C63.10 (2013) Section 11.8.1 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |
| Tester | Charlie |
| Temperature | 25°C |
| Humidity | 60% |

18.1 LIMITS

| | |
|--------|----------|
| Limit: | ≥500 kHz |
|--------|----------|

18.2 BLOCK DIAGRAM OF TEST SETUP



18.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

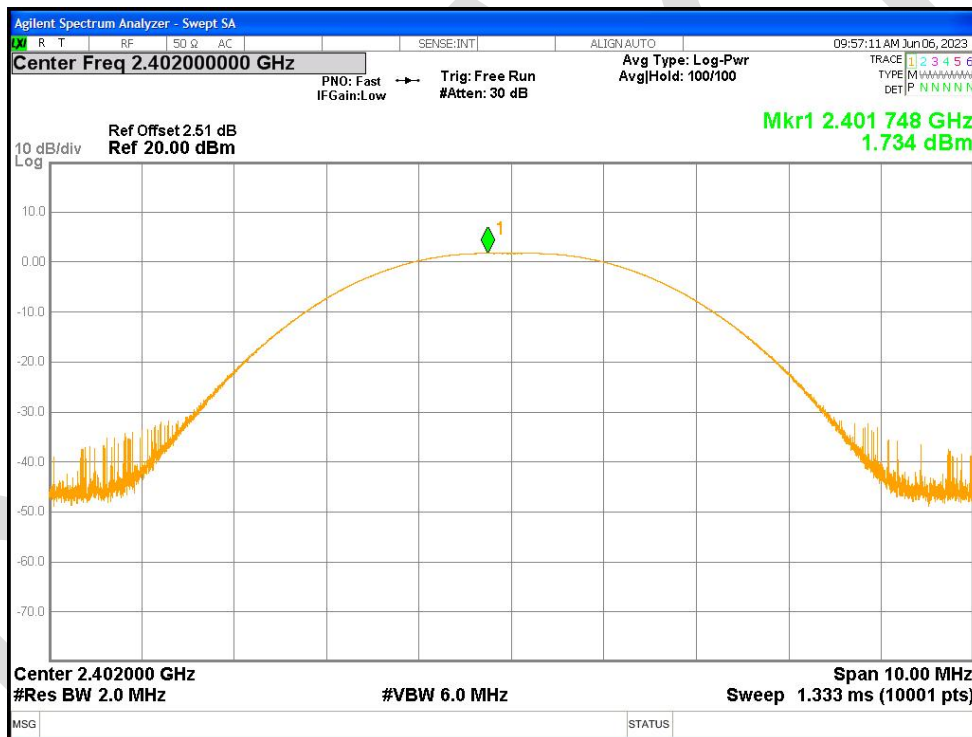
19 APPENDIX

Appendix1

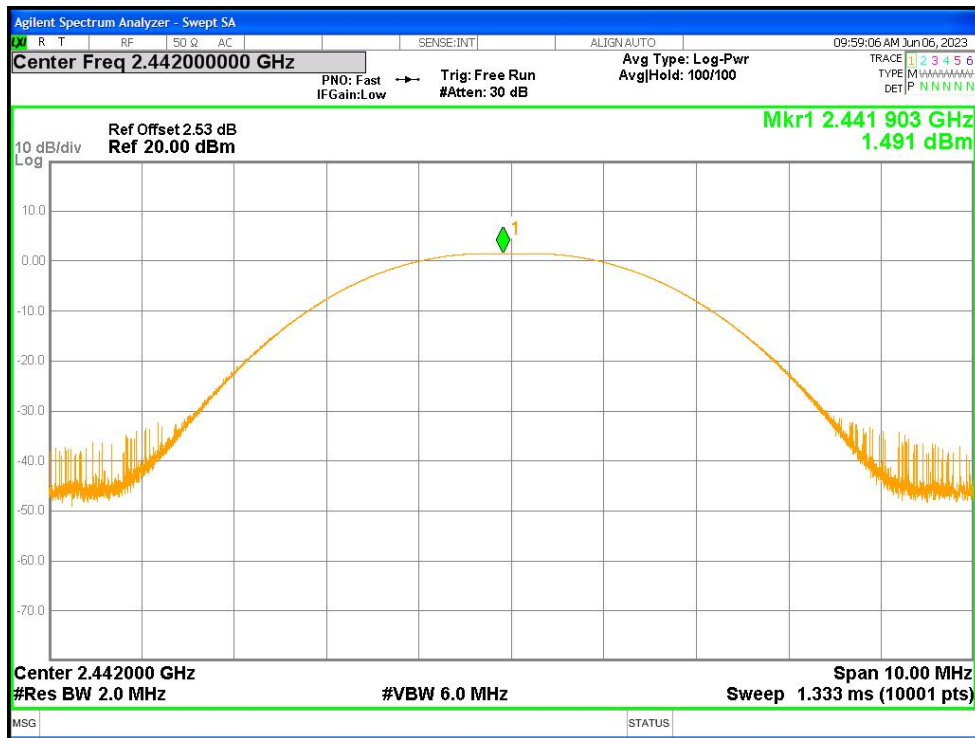
19.1 MAXIMUM CONDUCTED OUTPUT POWER

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 1.734 | 30 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | 1.491 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 1.945 | 30 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | 1.721 | 30 | Pass |
| NVNT | BLE 2M | 2442 | Ant1 | 1.502 | 30 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 1.96 | 30 | Pass |

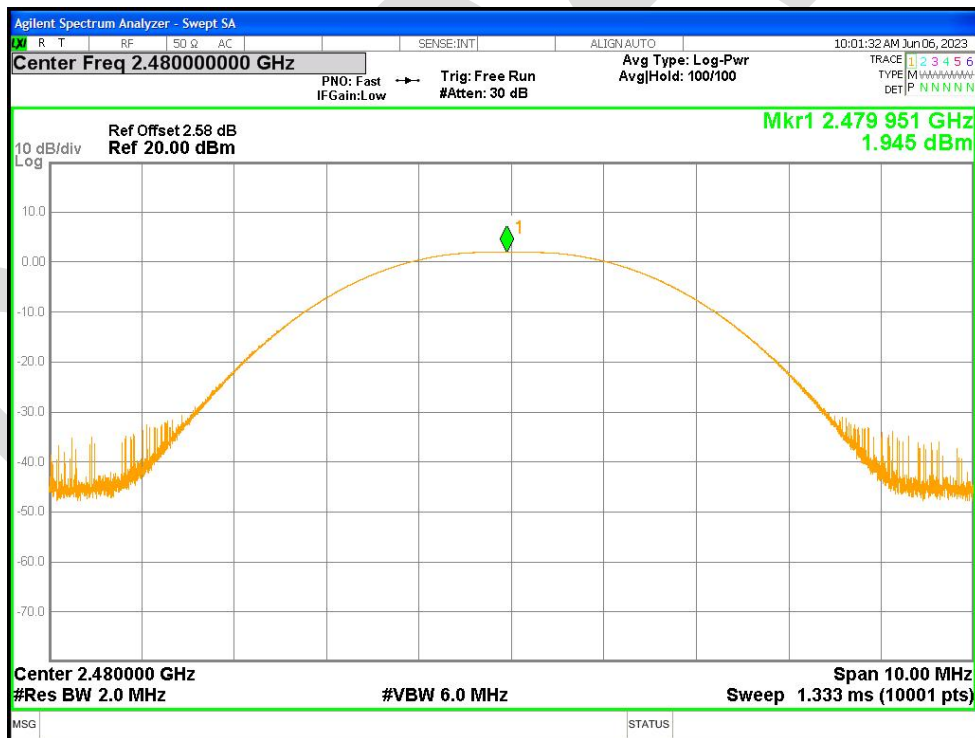
Power NVNT BLE 1M 2402MHz Ant1



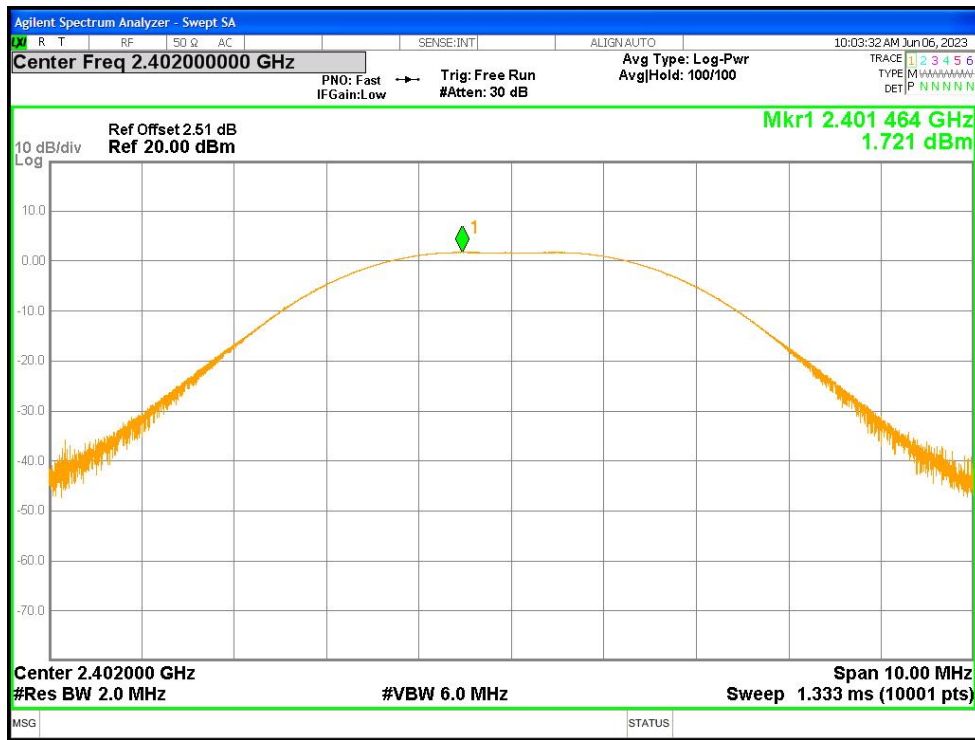
Power NVNT BLE 1M 2442MHz Ant1



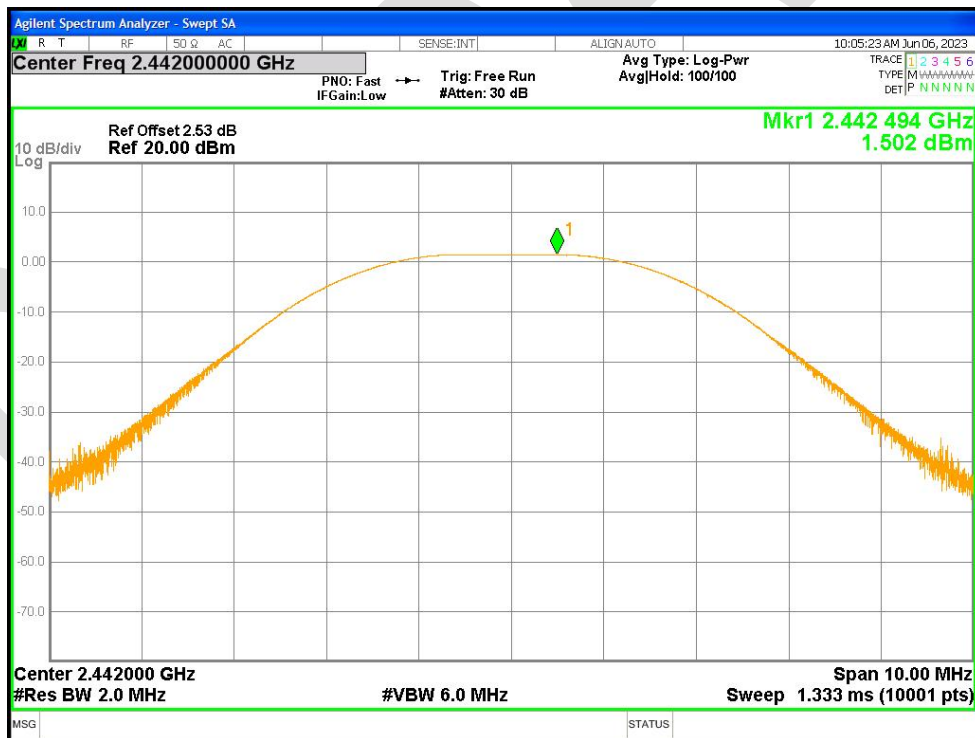
Power NVNT BLE 1M 2480MHz Ant1



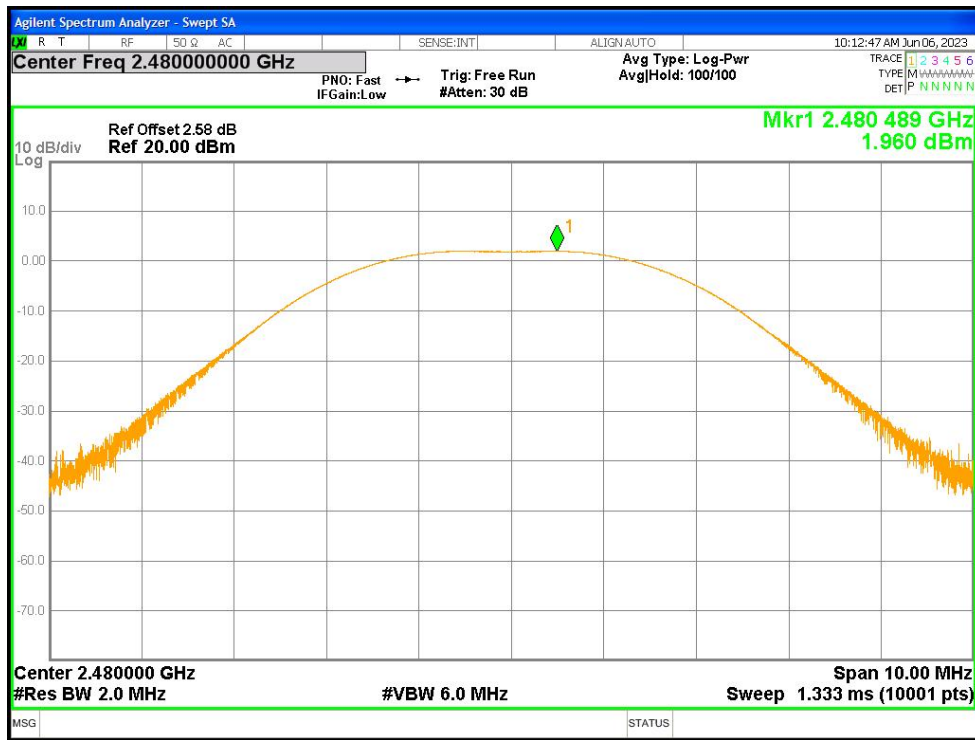
Power NVNT BLE 2M 2402MHz Ant1



Power NVNT BLE 2M 2442MHz Ant1



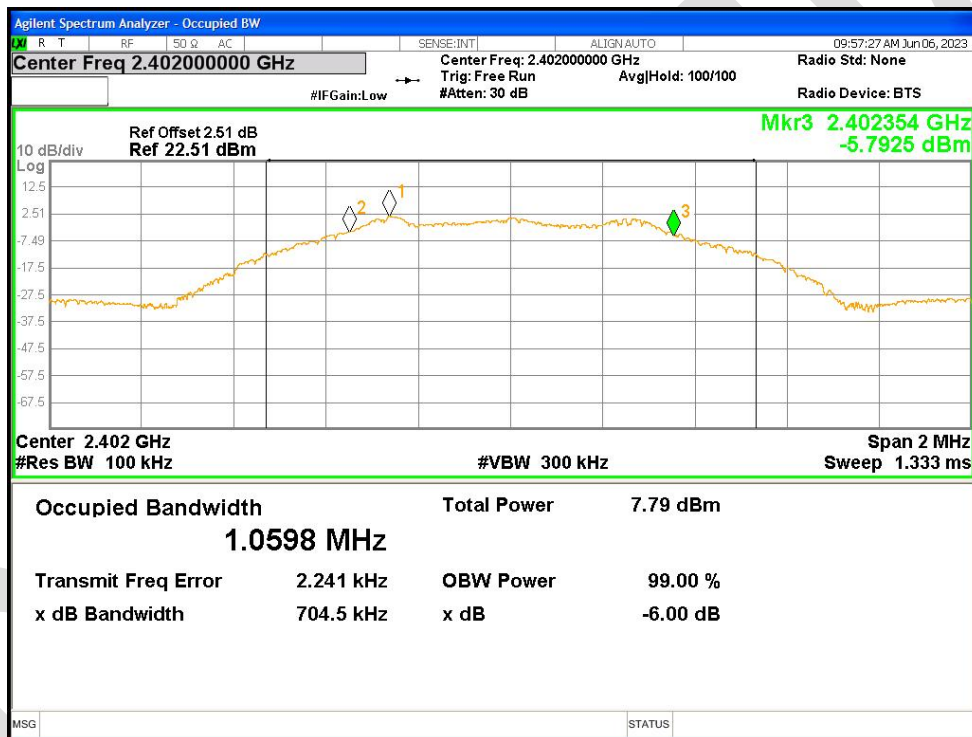
Power NVNT BLE 2M 2480MHz Ant1



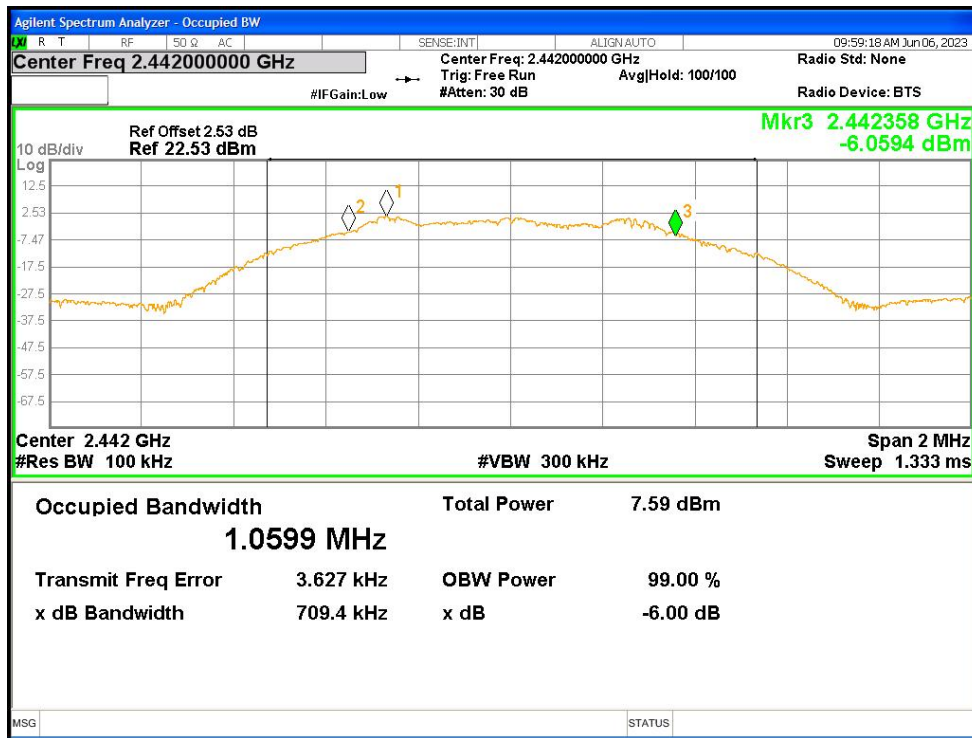
19.2 -6DB BANDWIDTH

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 0.704 | 0.5 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | 0.709 | 0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 0.708 | 0.5 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | 1.282 | 0.5 | Pass |
| NVNT | BLE 2M | 2442 | Ant1 | 1.245 | 0.5 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 1.258 | 0.5 | Pass |

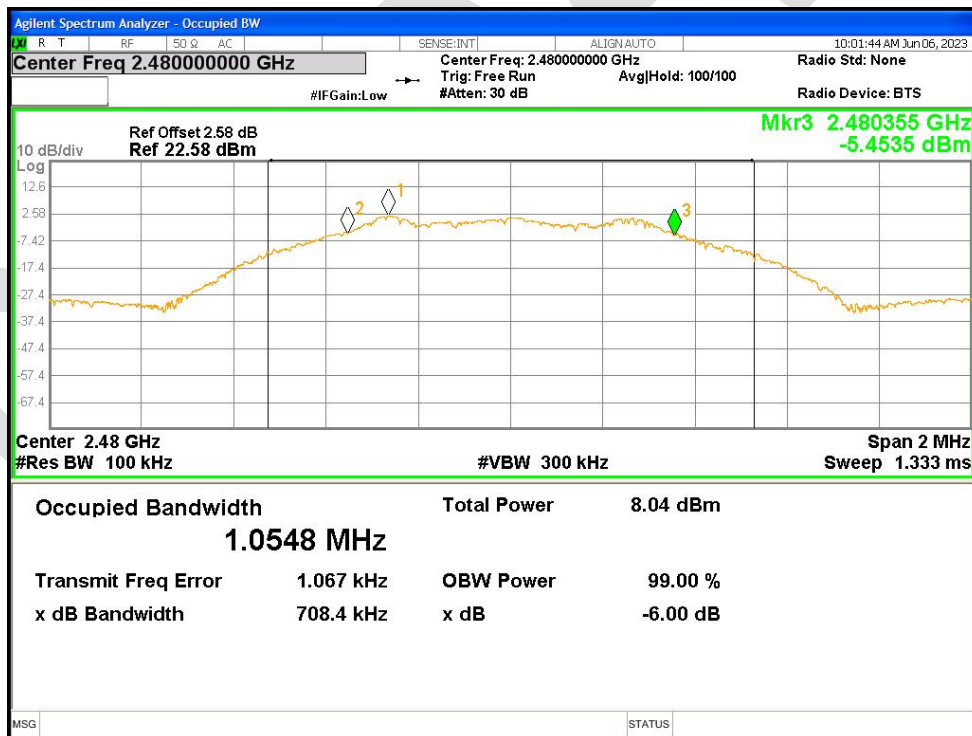
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



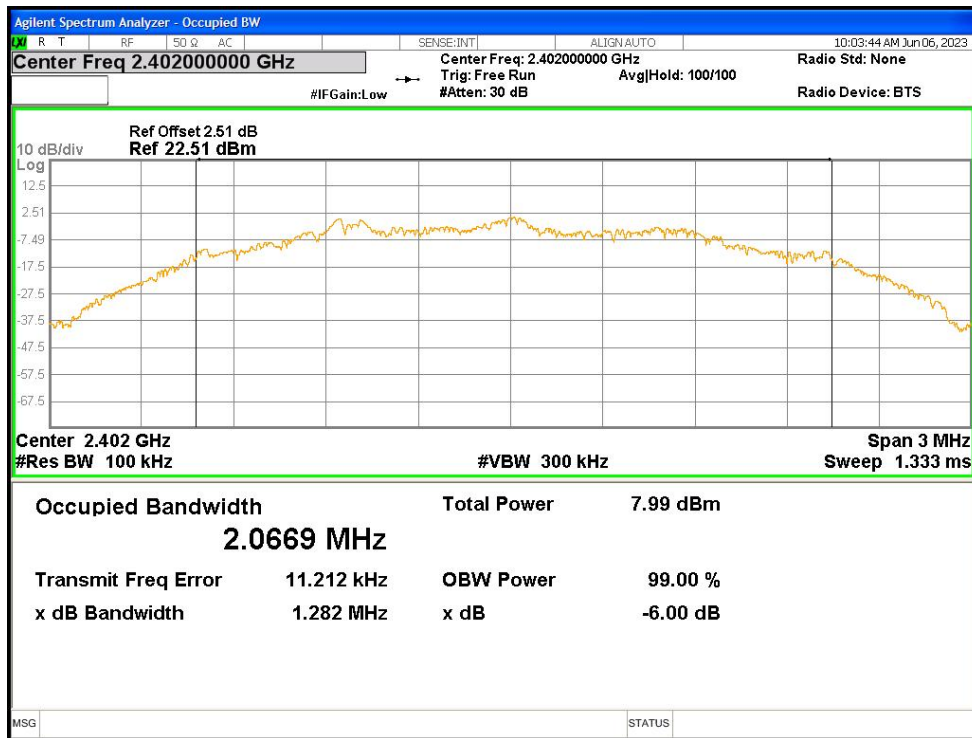
-6dB Bandwidth NVNT BLE 1M 2442MHz Ant1



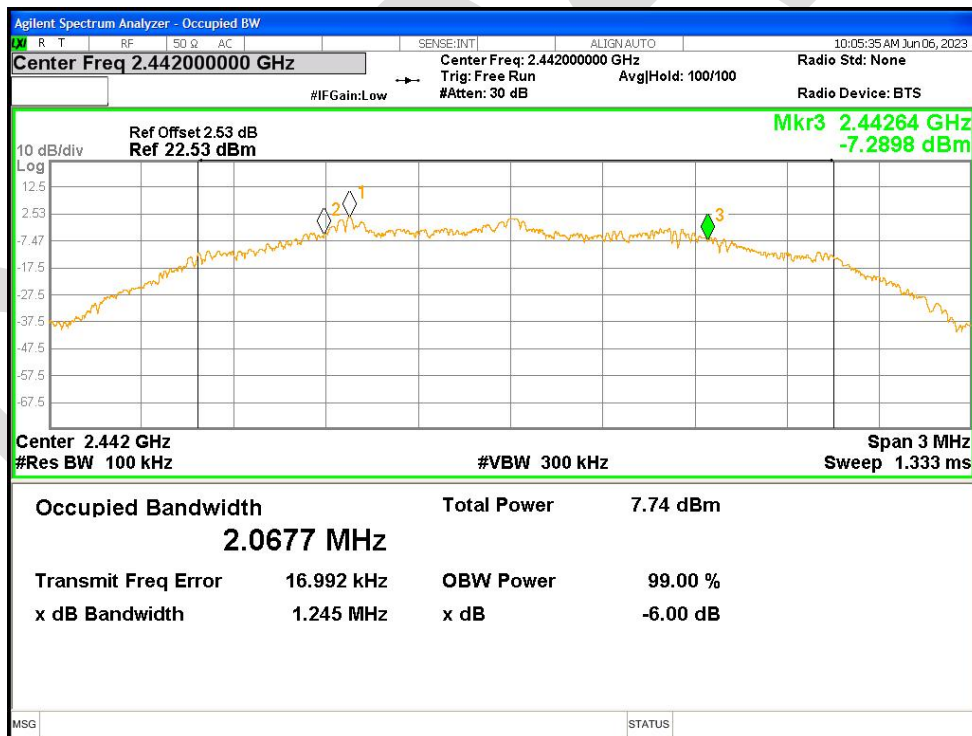
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



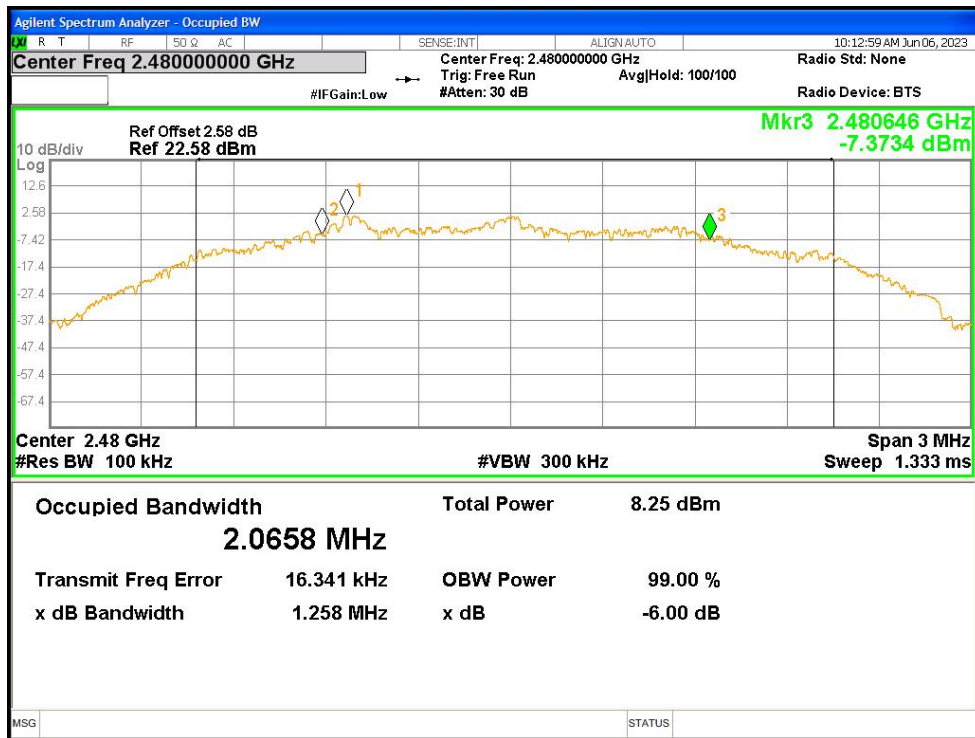
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2442MHz Ant1



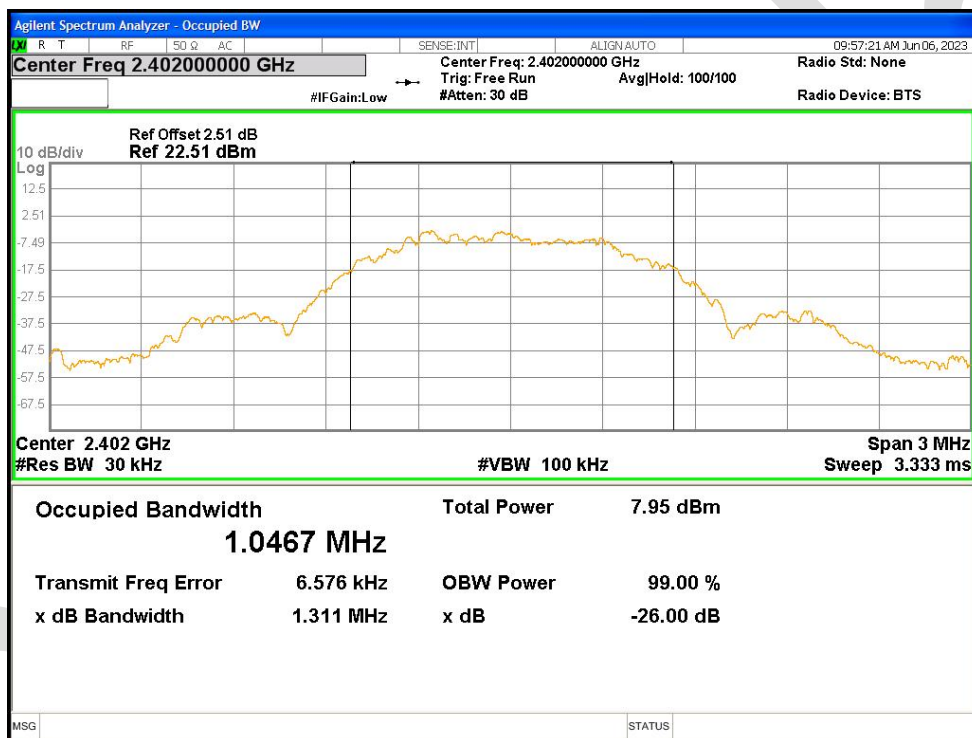
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



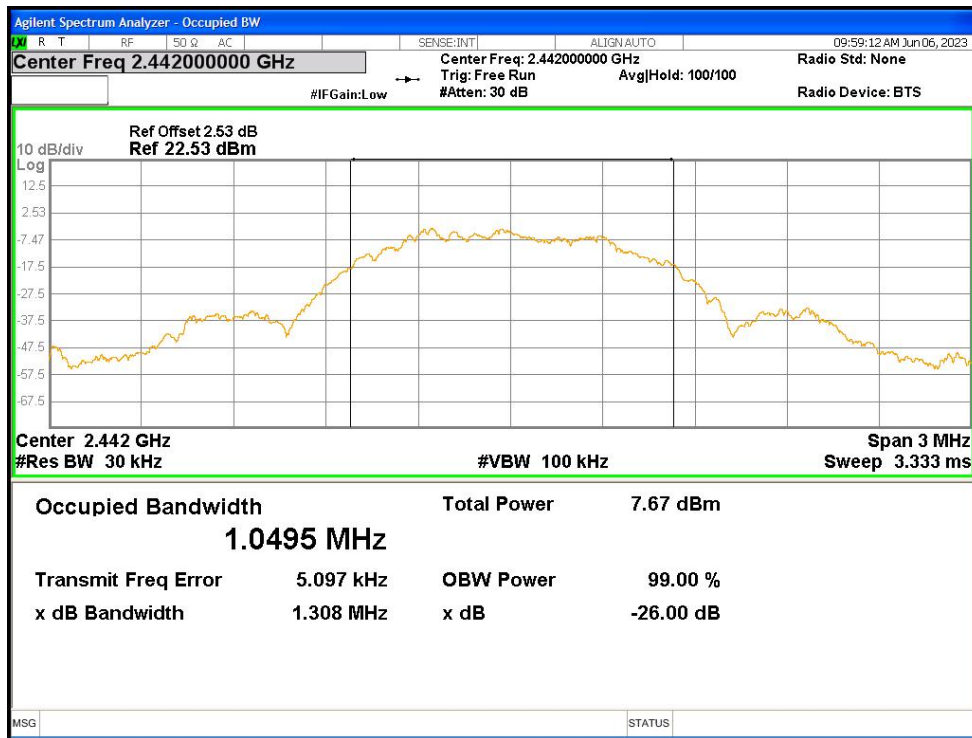
19.3 OCCUPIED CHANNEL BANDWIDTH

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT | BLE 1M | 2402 | Ant1 | 1.0467 |
| NVNT | BLE 1M | 2442 | Ant1 | 1.0495 |
| NVNT | BLE 1M | 2480 | Ant1 | 1.0450 |
| NVNT | BLE 2M | 2402 | Ant1 | 2.0516 |
| NVNT | BLE 2M | 2442 | Ant1 | 2.0489 |
| NVNT | BLE 2M | 2480 | Ant1 | 2.0426 |

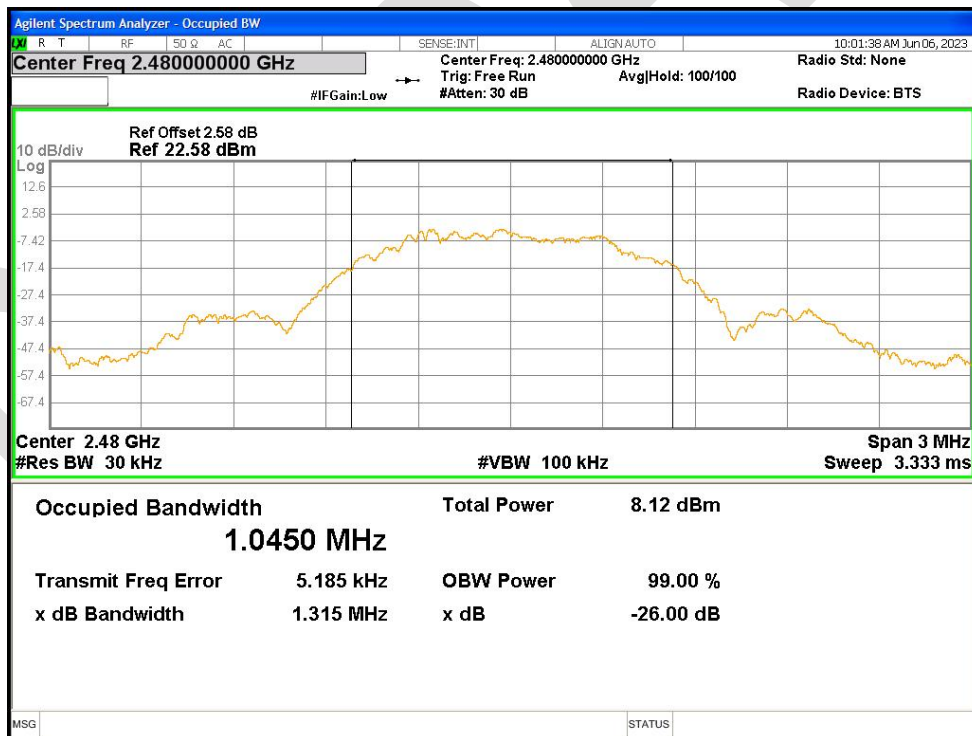
OBW NVNT BLE 1M 2402MHz Ant1



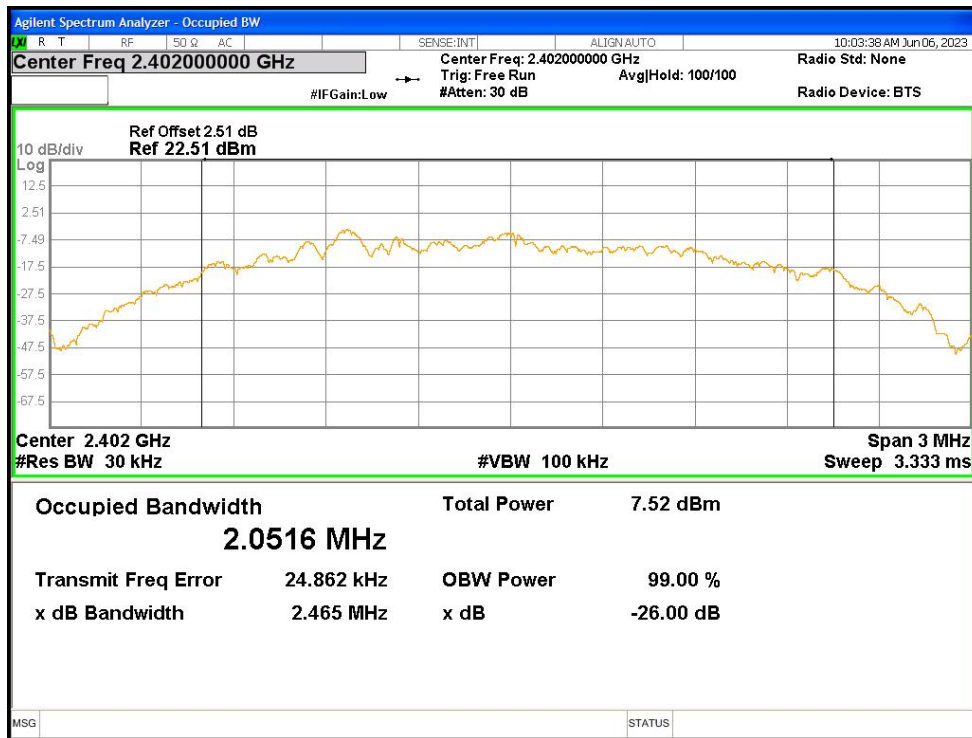
OBW NVNT BLE 1M 2442MHz Ant1



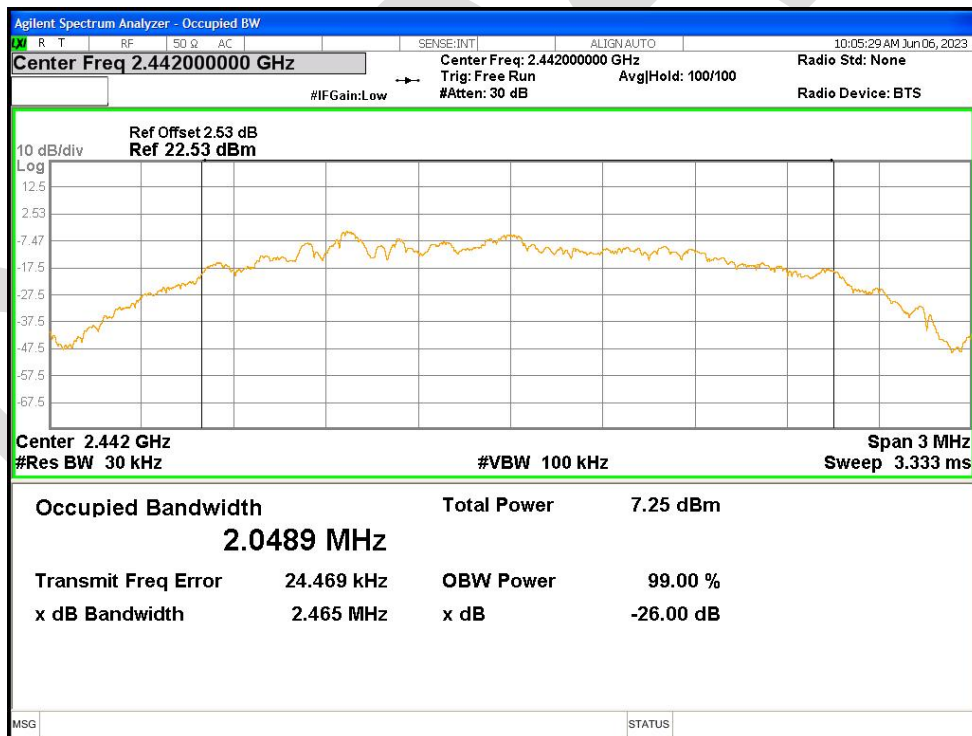
OBW NVNT BLE 1M 2480MHz Ant1



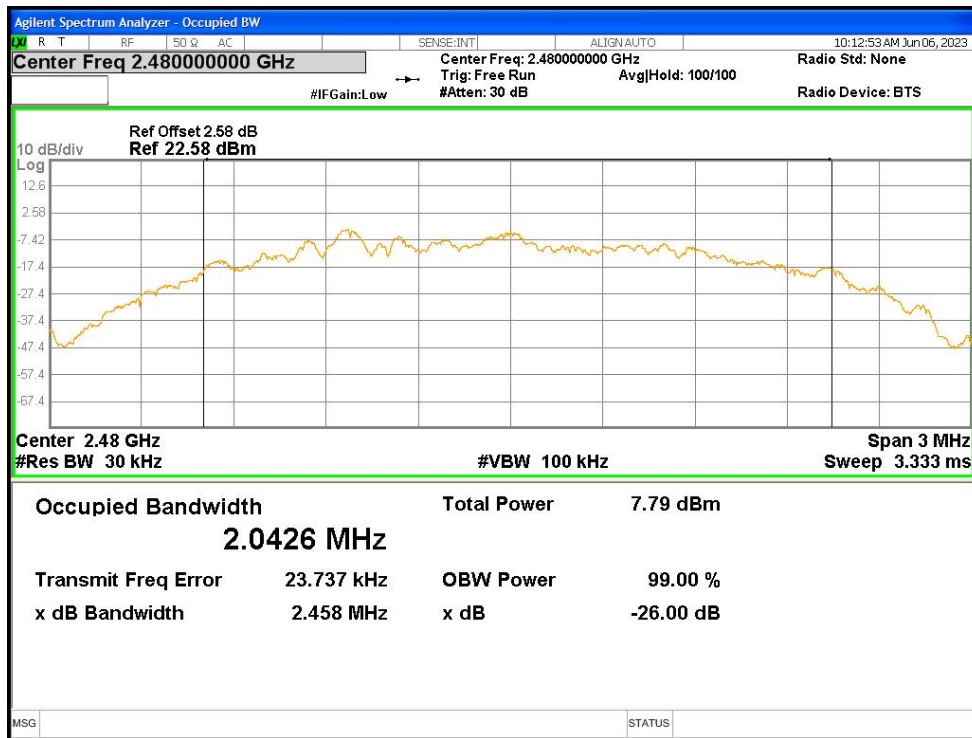
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2442MHz Ant1



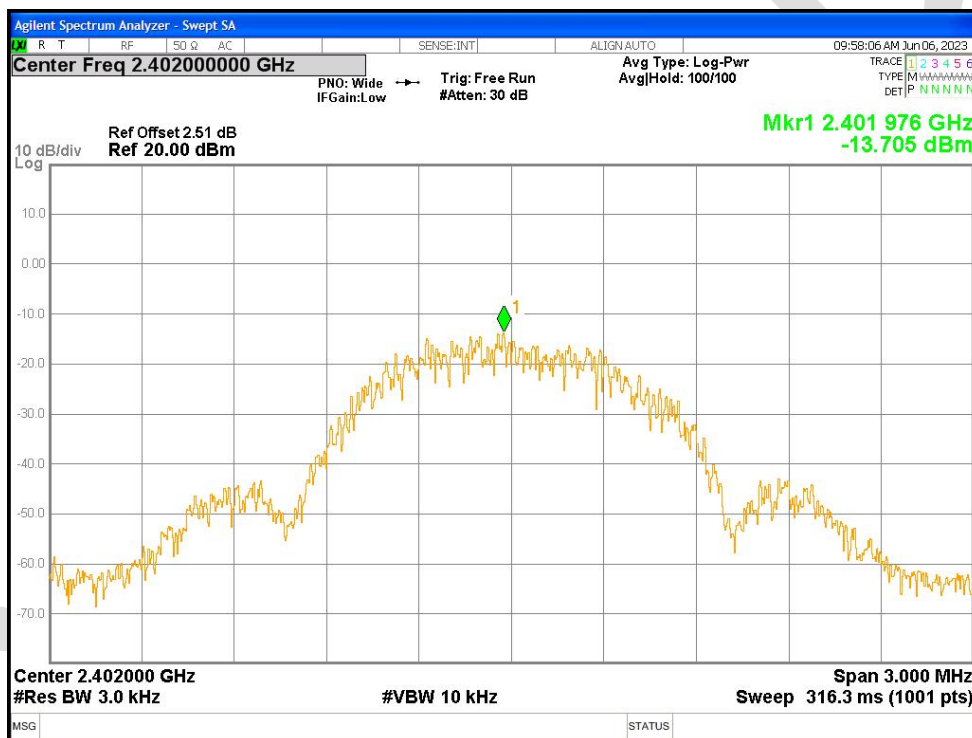
OBW NVNT BLE 2M 2480MHz Ant1



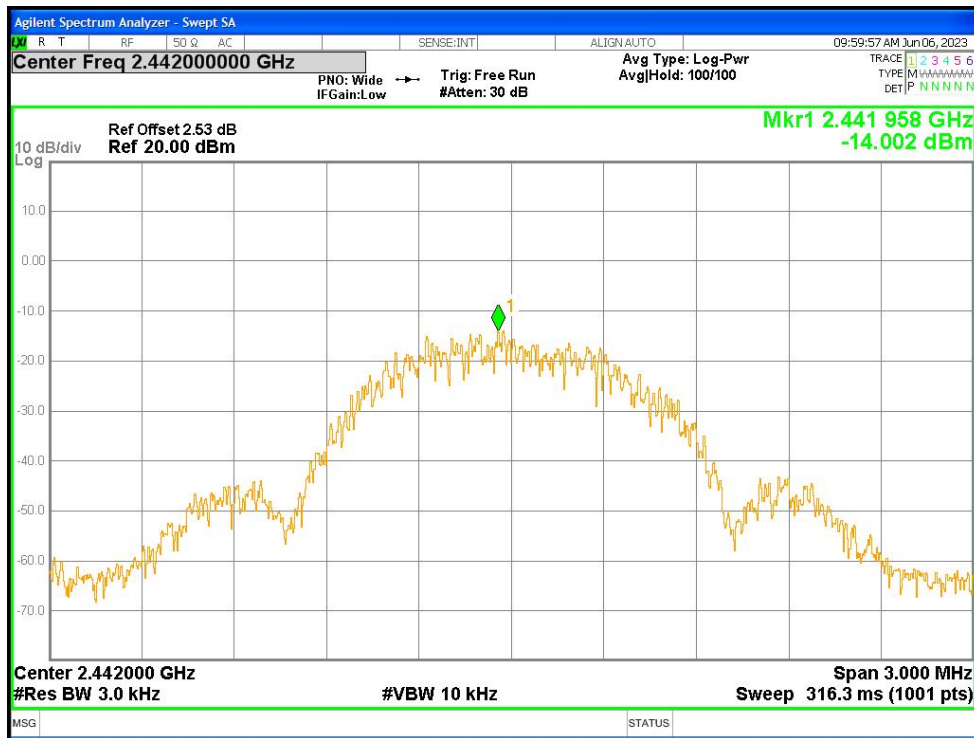
19.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|---------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -13.705 | 8 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | -14.002 | 8 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -13.542 | 8 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | -17.246 | 8 | Pass |
| NVNT | BLE 2M | 2442 | Ant1 | -17.334 | 8 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -16.899 | 8 | Pass |

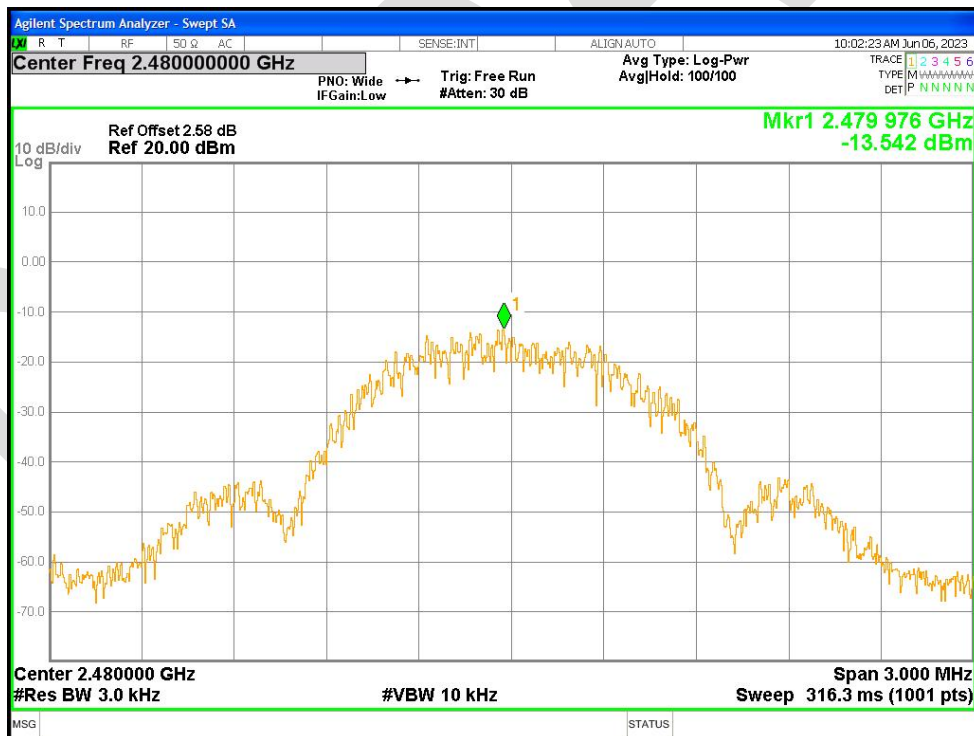
PSD NVNT BLE 1M 2402MHz Ant1



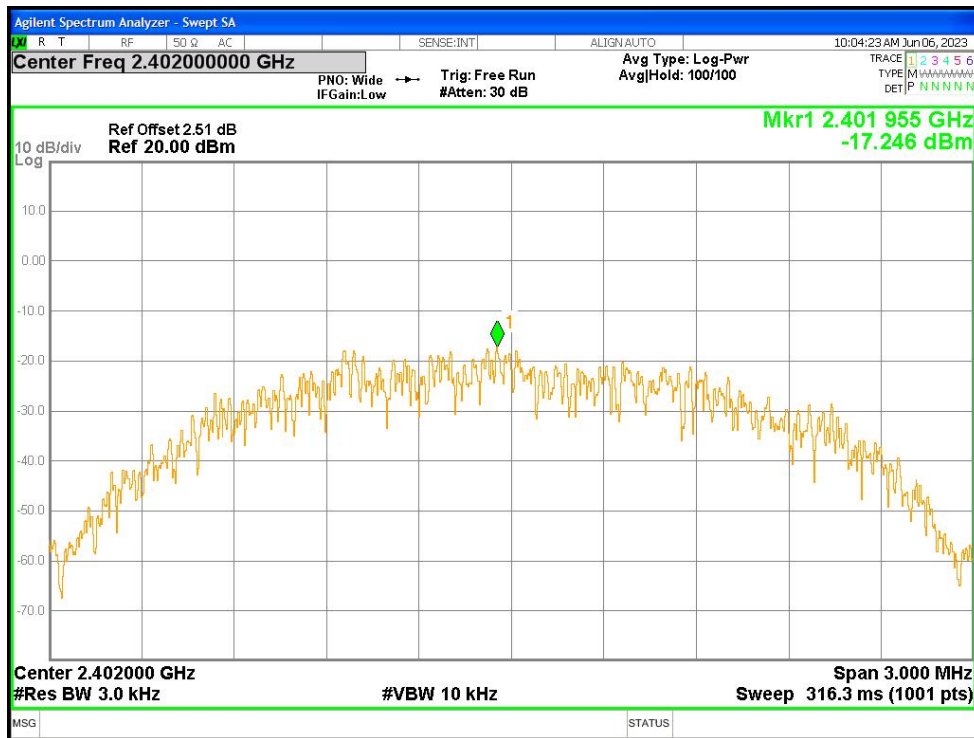
PSD NVNT BLE 1M 2442MHz Ant1



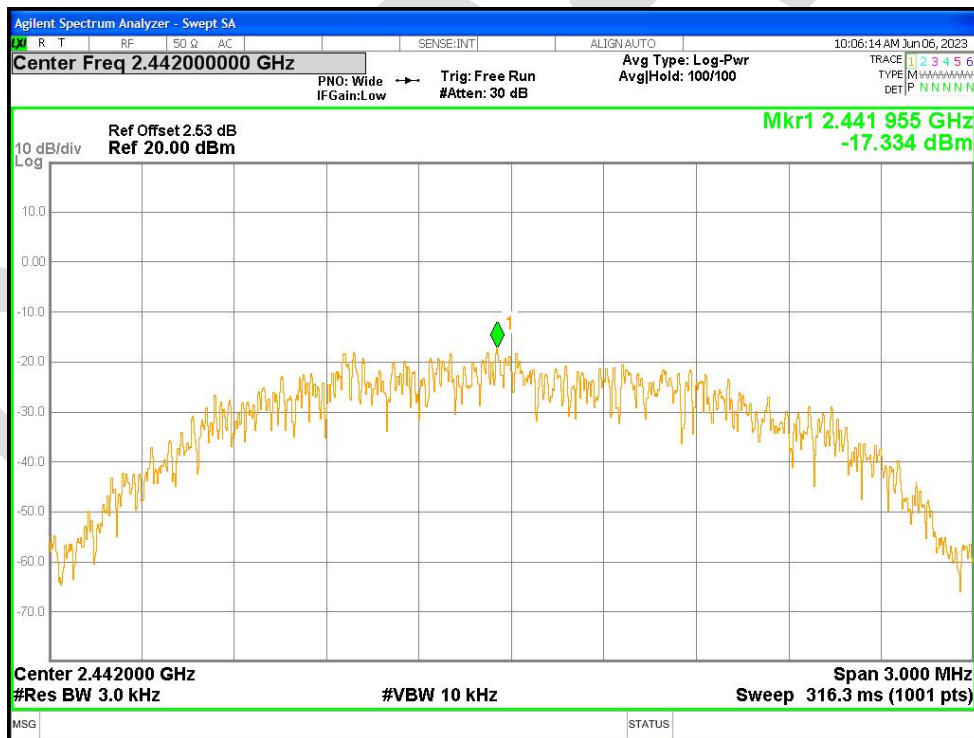
PSD NVNT BLE 1M 2480MHz Ant1



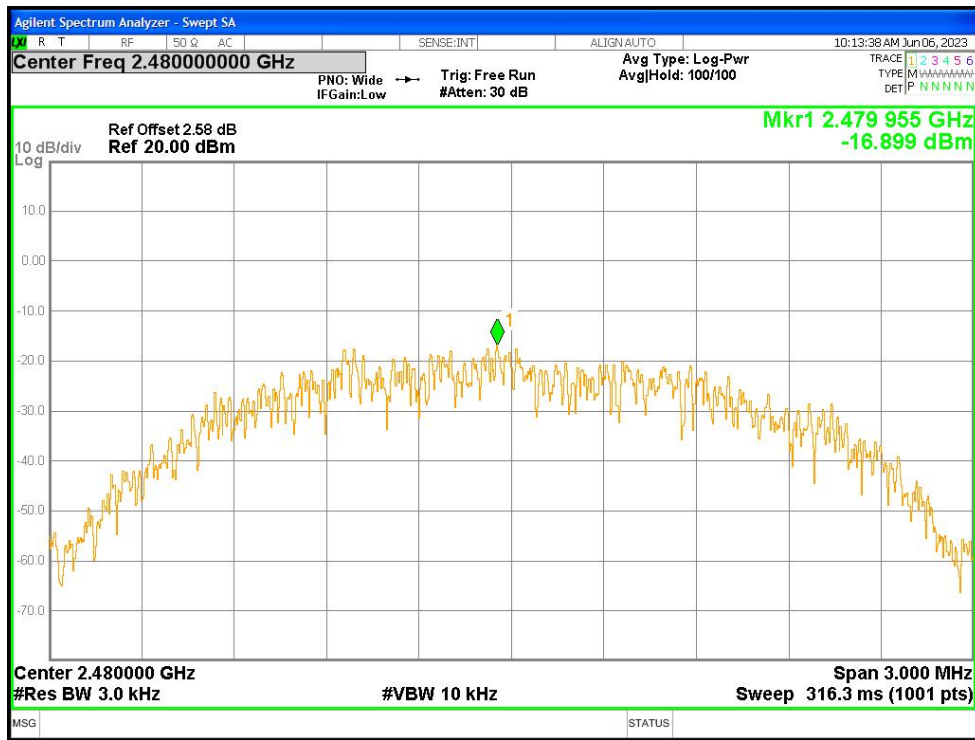
PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2442MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



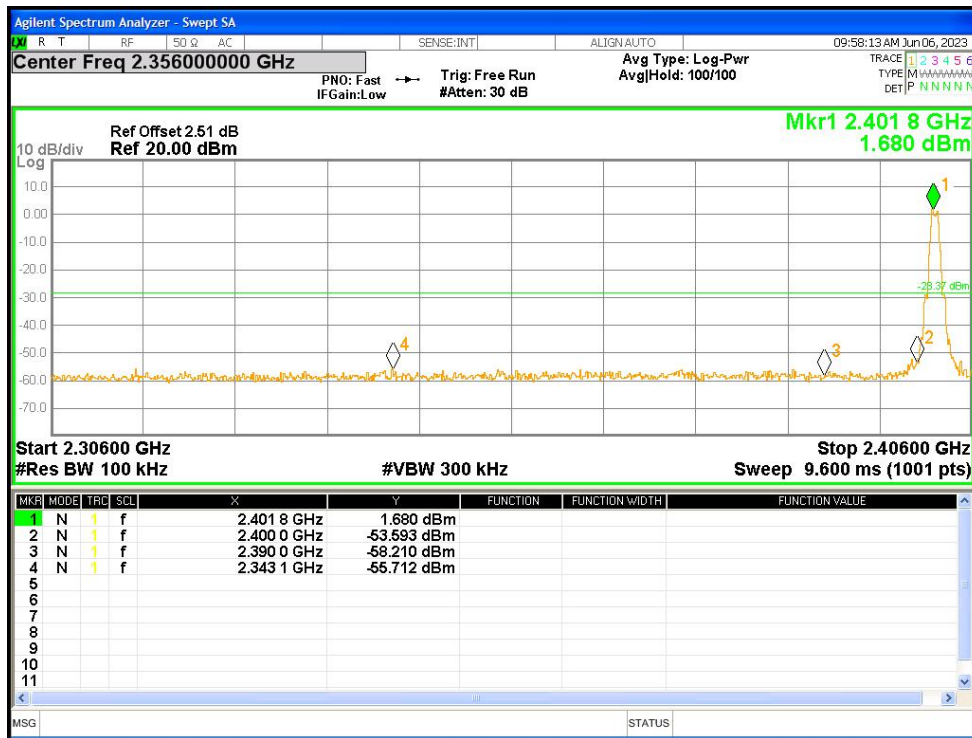
19.5 BAND EDGE

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -57.34 | -30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -56 | -30 | Pass |
| NVNT | BLE 2M | 2402 | Ant1 | -57.08 | -30 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -56.34 | -30 | Pass |

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



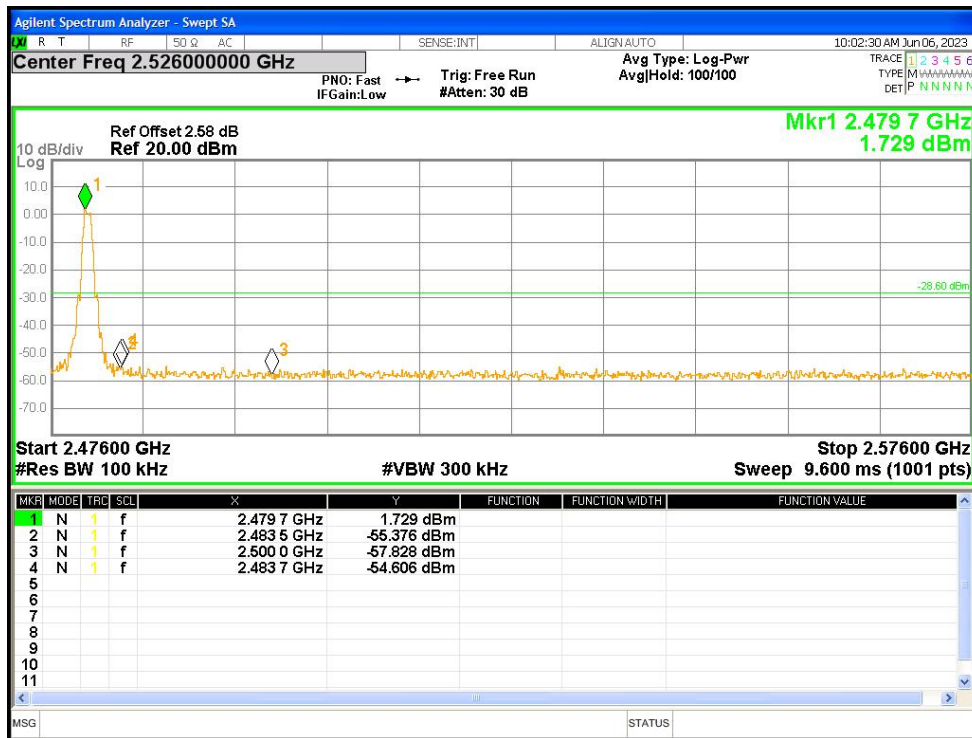
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission