



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: 10.1inch tablet

Test Model: AK10

Environmental Conditions

| | |
|--------------------|------------|
| Temperature: | 23.8 ° C |
| Relative Humidity: | 52.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Paddi Chen |
| Supervised by: | Nick Peng |





B.1 -6dB Bandwidth

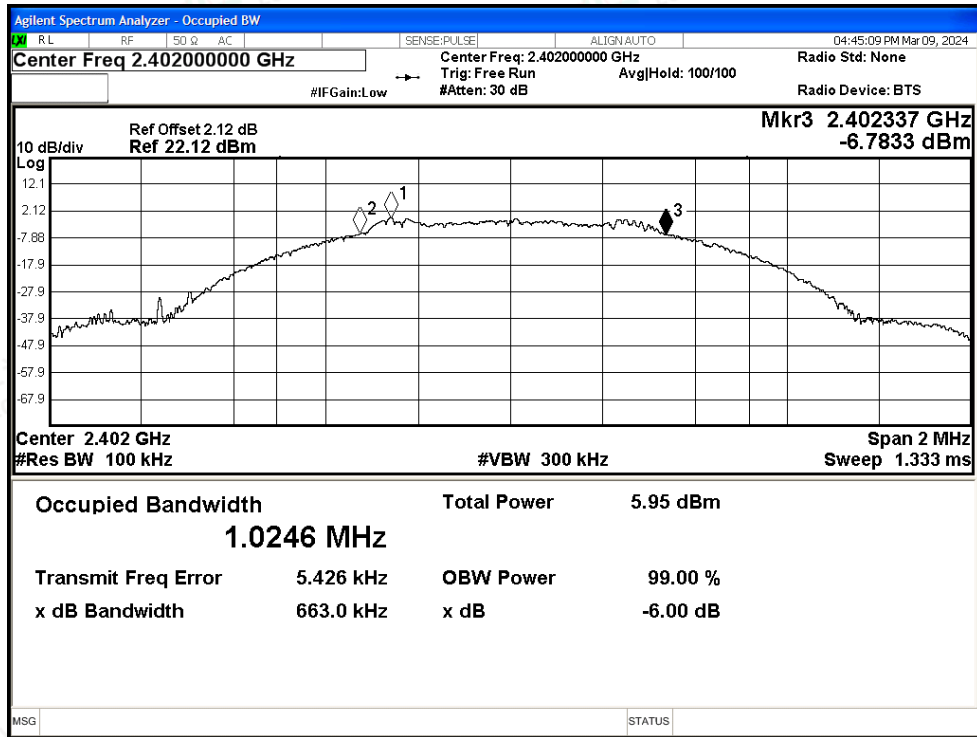
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | BLE 1M | 2402 | Ant | 0.663 | ≥ 0.5 | Pass |
| NVNT | BLE 1M | 2440 | Ant | 0.654 | ≥ 0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant | 0.659 | ≥ 0.5 | Pass |
| NVNT | BLE 2M | 2402 | Ant | 1.117 | ≥ 0.5 | Pass |
| NVNT | BLE 2M | 2440 | Ant | 1.131 | ≥ 0.5 | Pass |
| NVNT | BLE 2M | 2480 | Ant | 1.142 | ≥ 0.5 | Pass |



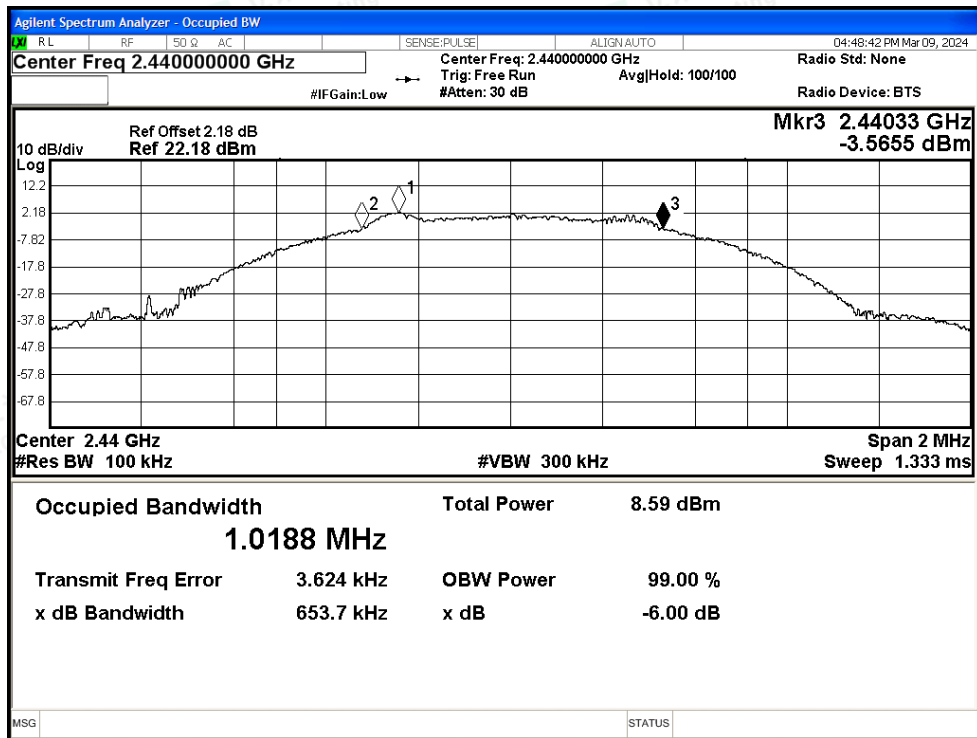


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant

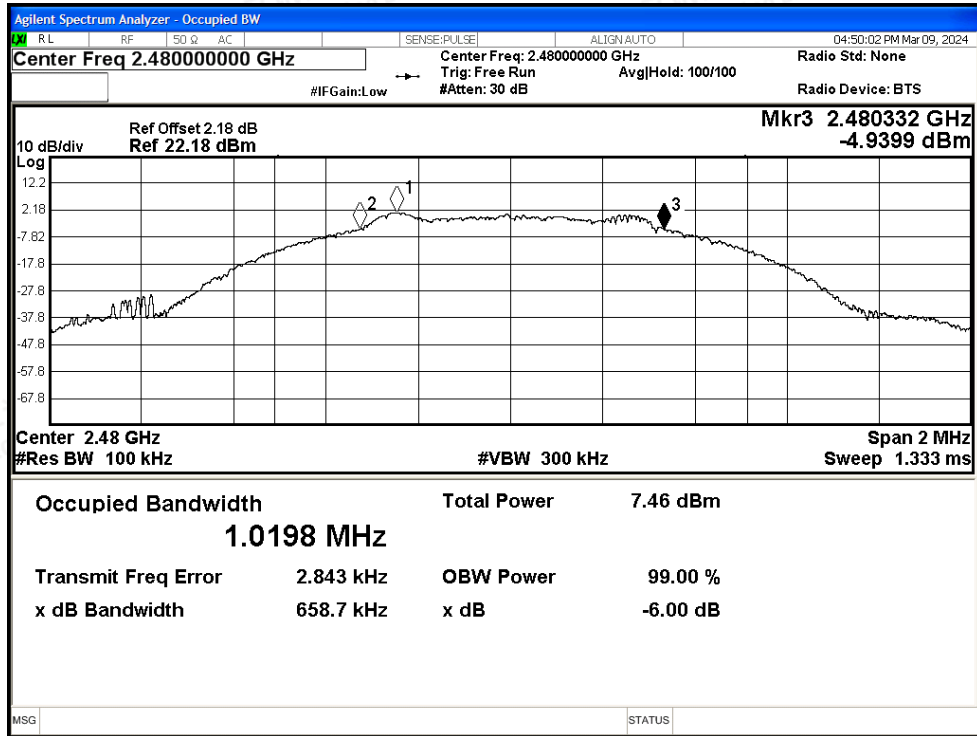


-6dB Bandwidth NVNT BLE 1M 2440MHz Ant

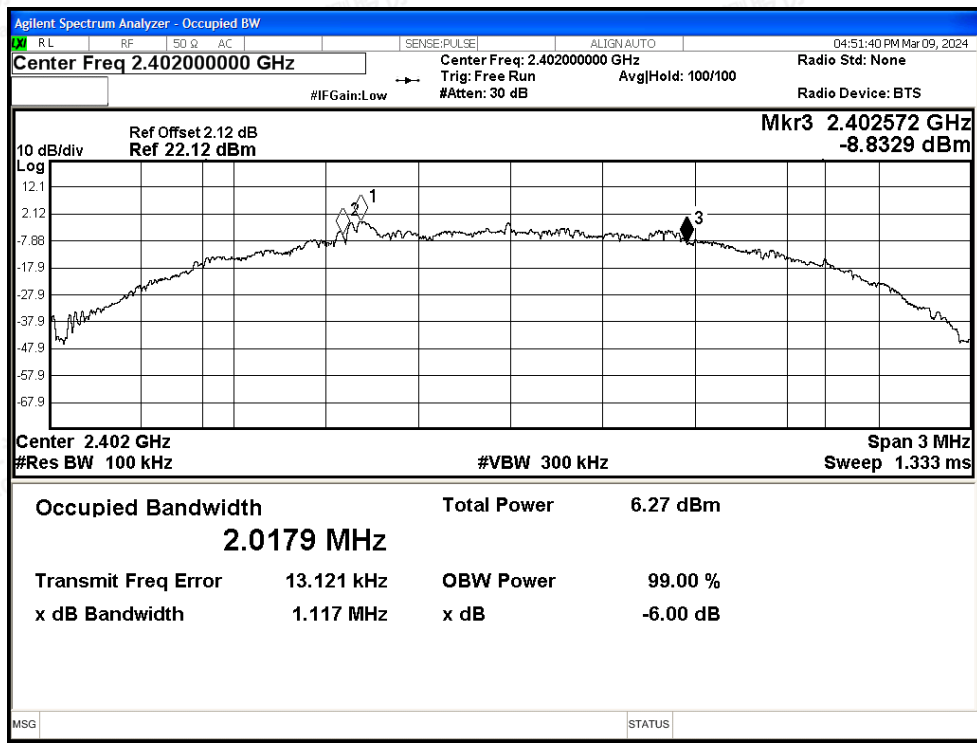




-6dB Bandwidth NVNT BLE 1M 2480MHz Ant

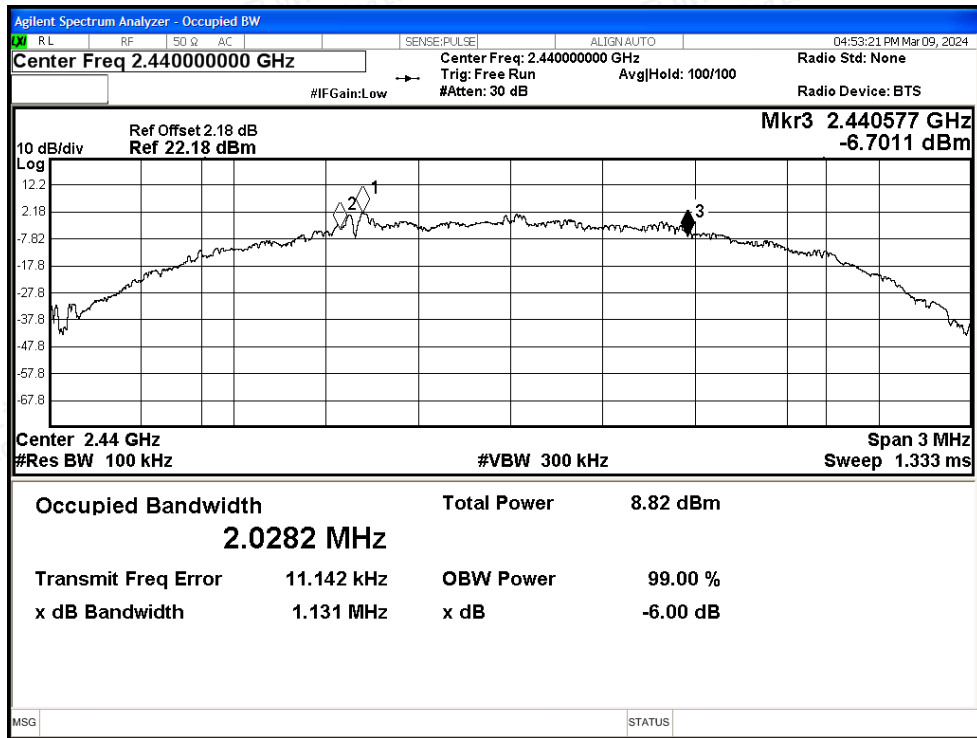


-6dB Bandwidth NVNT BLE 2M 2402MHz Ant

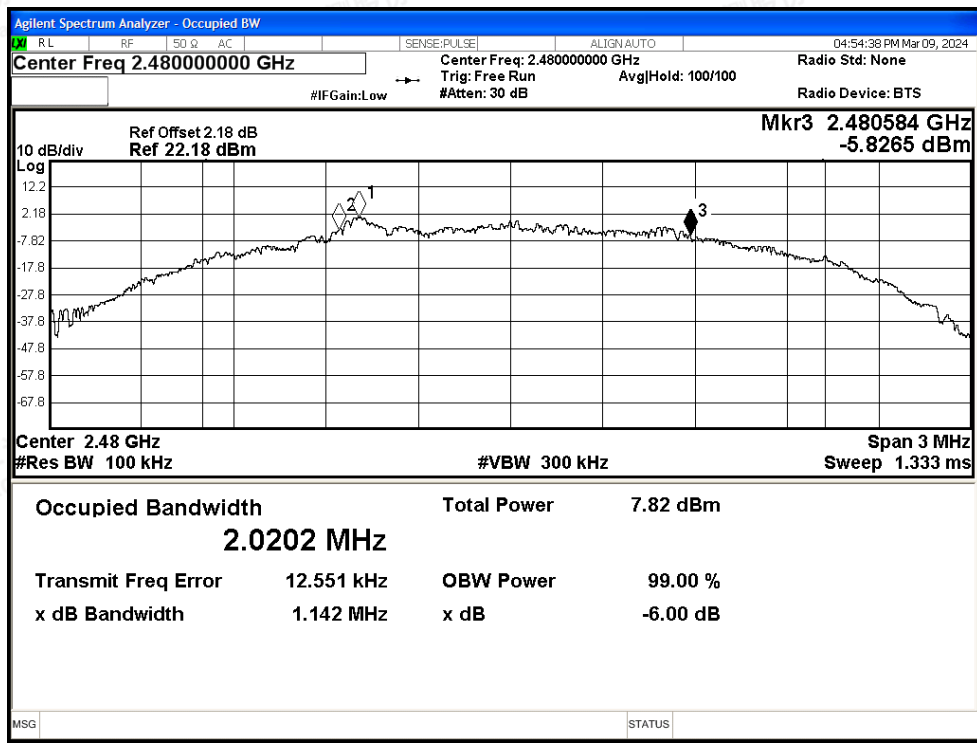




-6dB Bandwidth NVNT BLE 2M 2440MHz Ant



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant





B.2 Maximum Peak Conducted Output Power

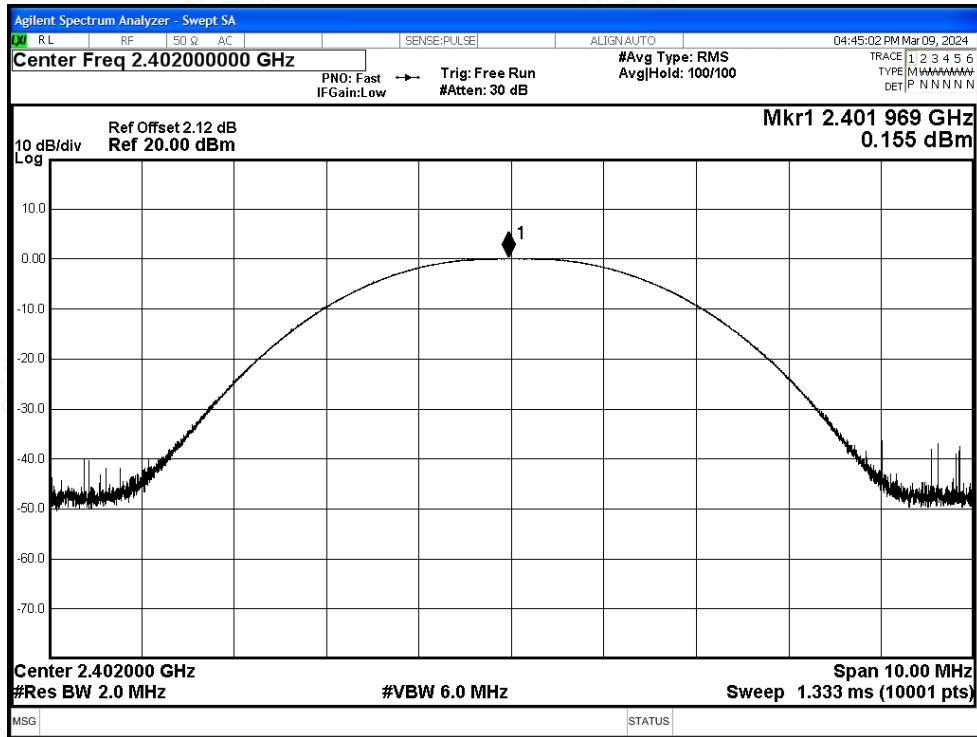
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant | 0.16 | 30 | Pass |
| NVNT | BLE 1M | 2440 | Ant | 2.73 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant | 1.58 | 30 | Pass |
| NVNT | BLE 2M | 2402 | Ant | 0.05 | 30 | Pass |
| NVNT | BLE 2M | 2440 | Ant | 0.32 | 30 | Pass |
| NVNT | BLE 2M | 2480 | Ant | -0.76 | 30 | Pass |



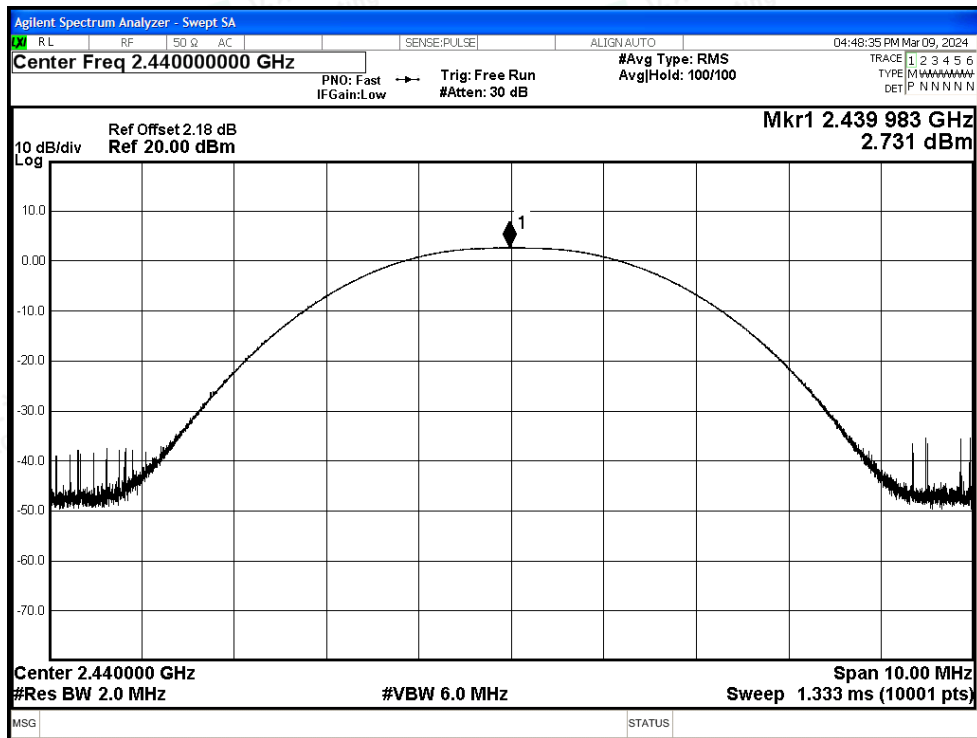


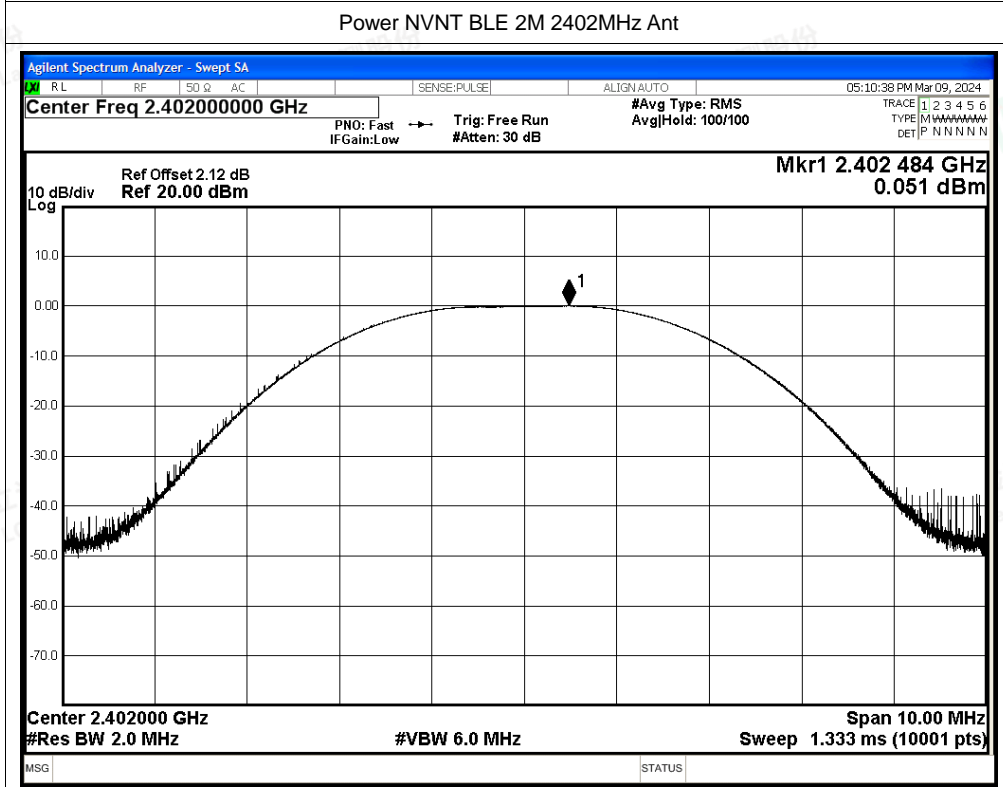
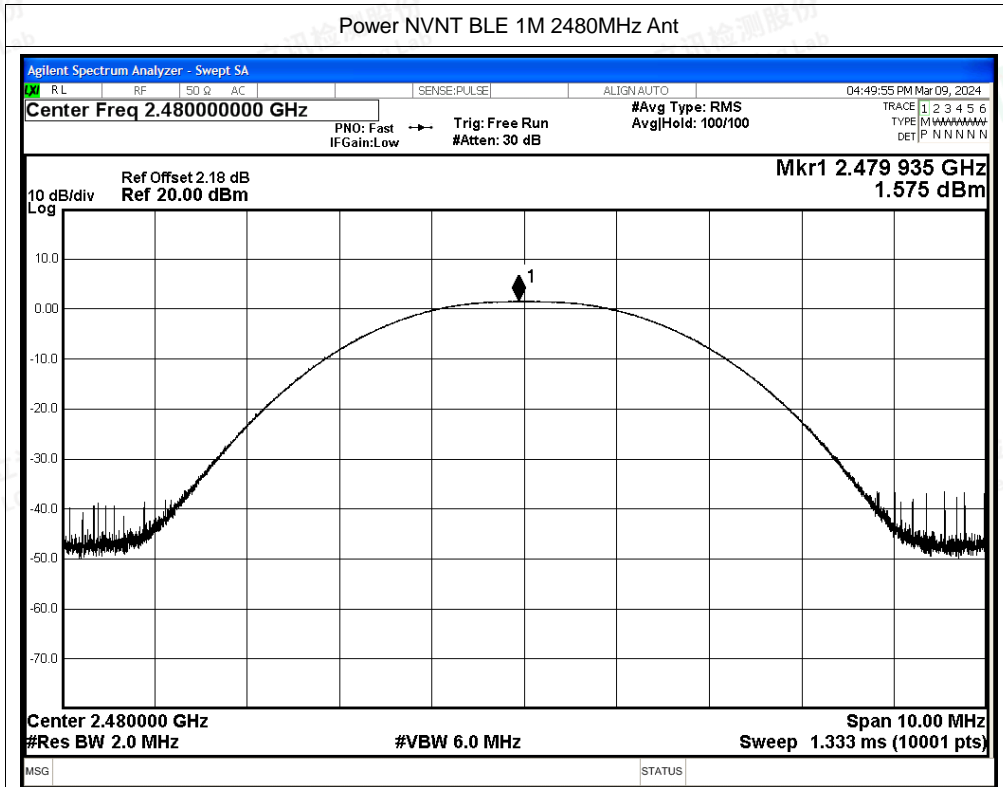
Test Graphs

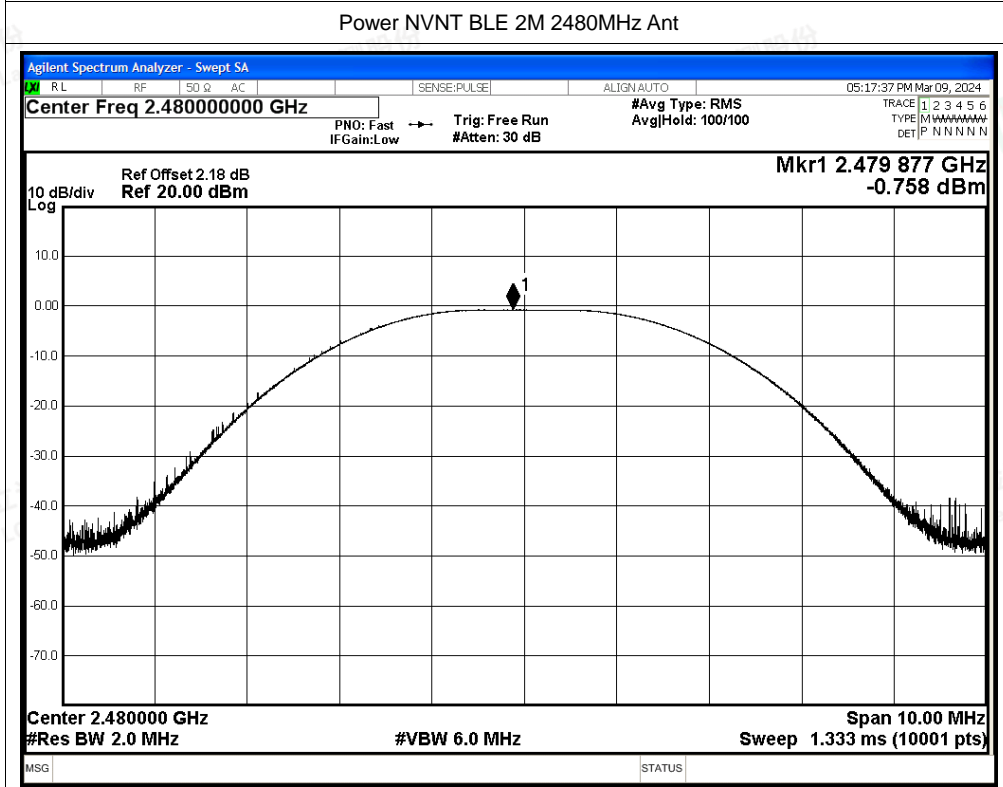
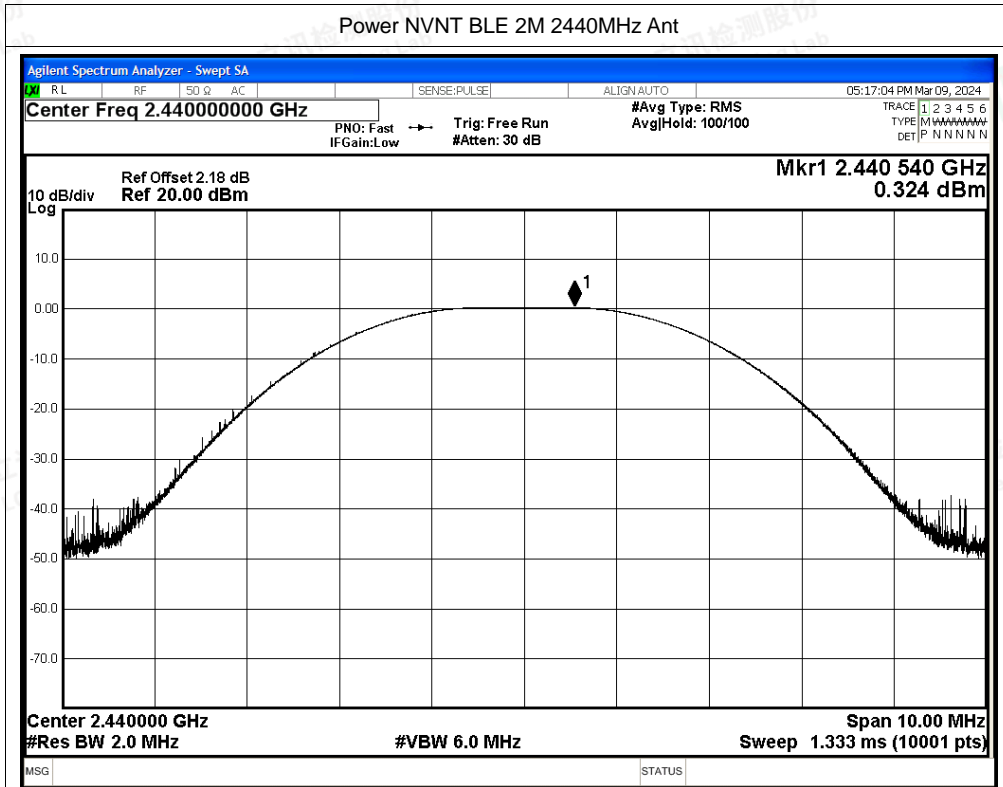
Power NVNT BLE 1M 2402MHz Ant



Power NVNT BLE 1M 2440MHz Ant









B.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|--------------------------|------------------|---------|
| NVNT | BLE 1M | 2402 | Ant | -16.55 | 8 | Pass |
| NVNT | BLE 1M | 2440 | Ant | -13.95 | 8 | Pass |
| NVNT | BLE 1M | 2480 | Ant | -14.97 | 8 | Pass |
| NVNT | BLE 2M | 2402 | Ant | -19.62 | 8 | Pass |
| NVNT | BLE 2M | 2440 | Ant | -17.72 | 8 | Pass |
| NVNT | BLE 2M | 2480 | Ant | -19.44 | 8 | Pass |

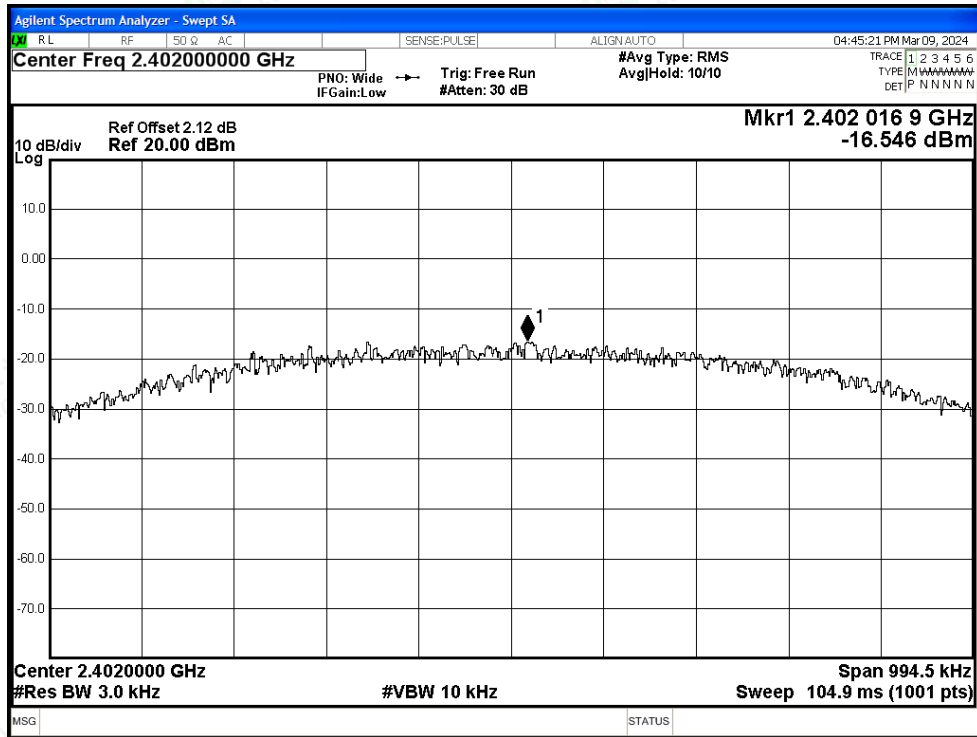


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

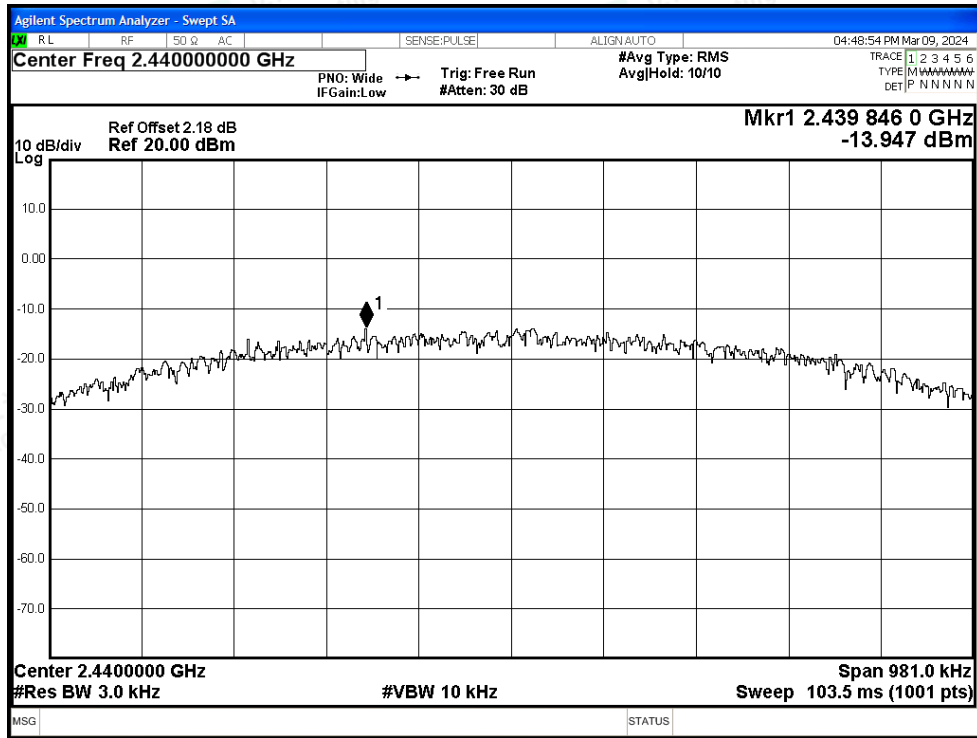


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant

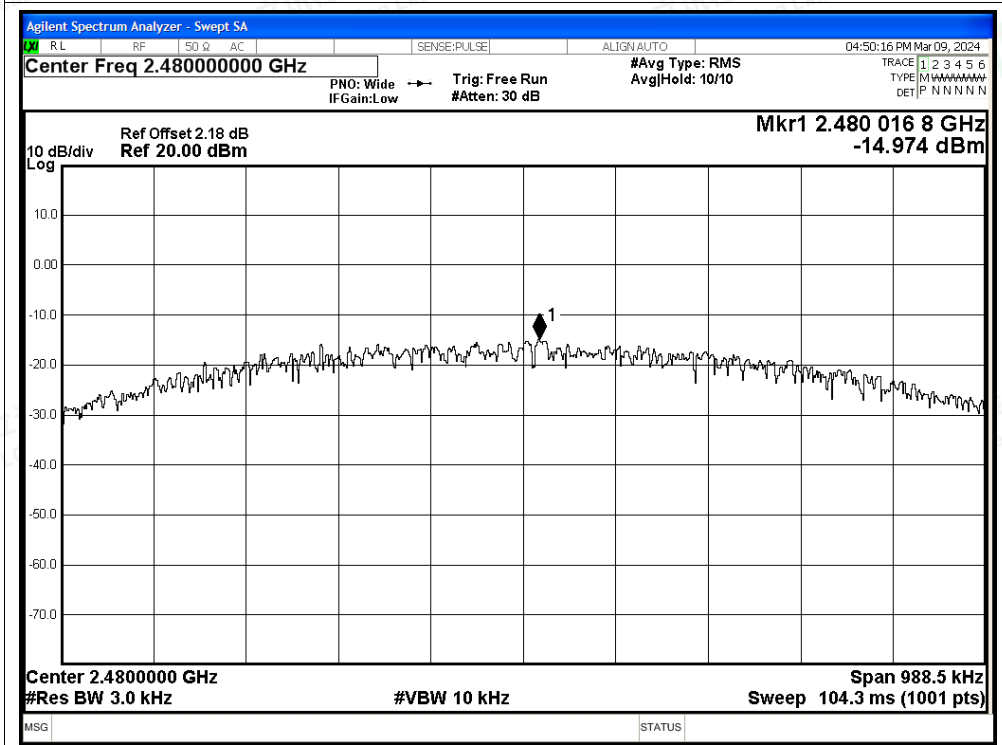


PSD NVNT BLE 1M 2440MHz Ant

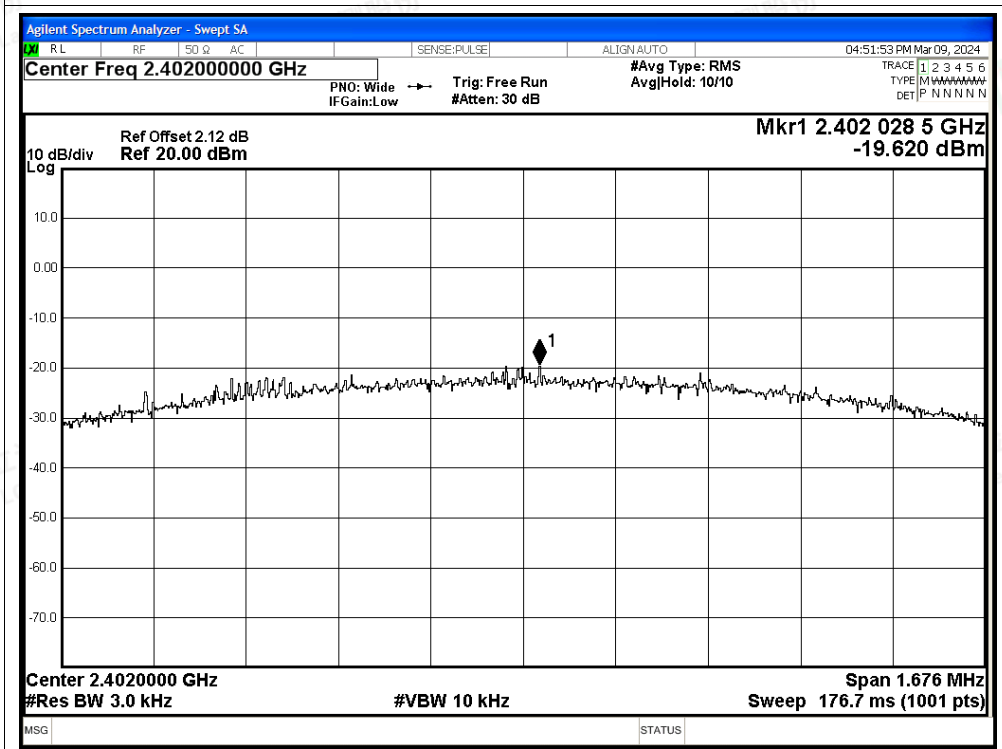




PSD NVNT BLE 1M 2480MHz Ant

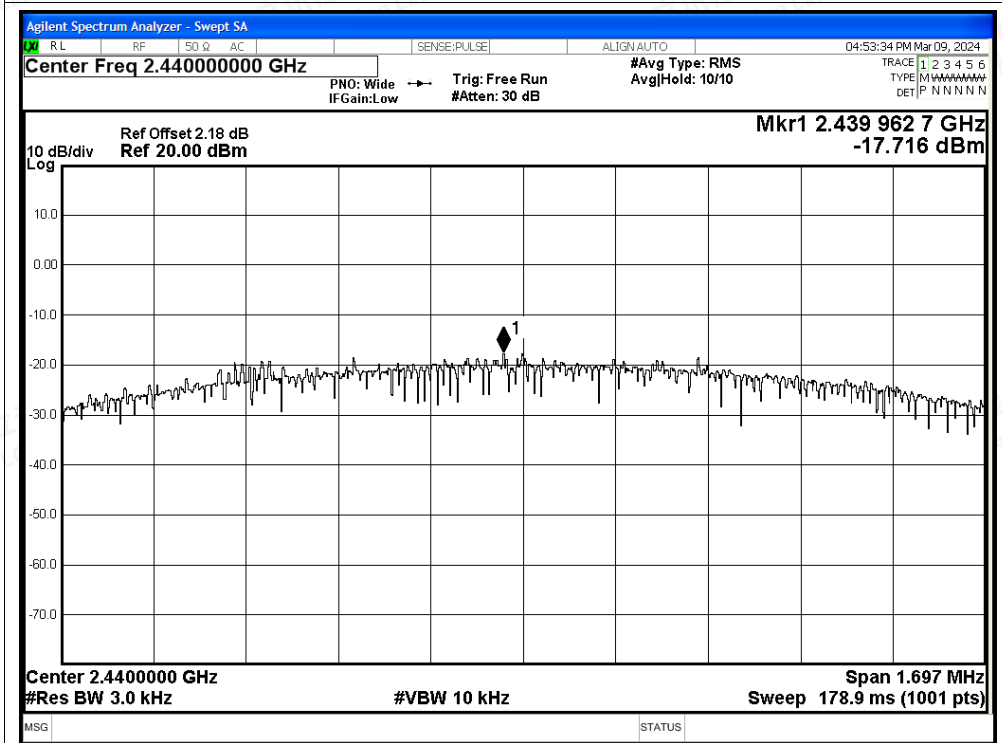


PSD NVNT BLE 2M 2402MHz Ant

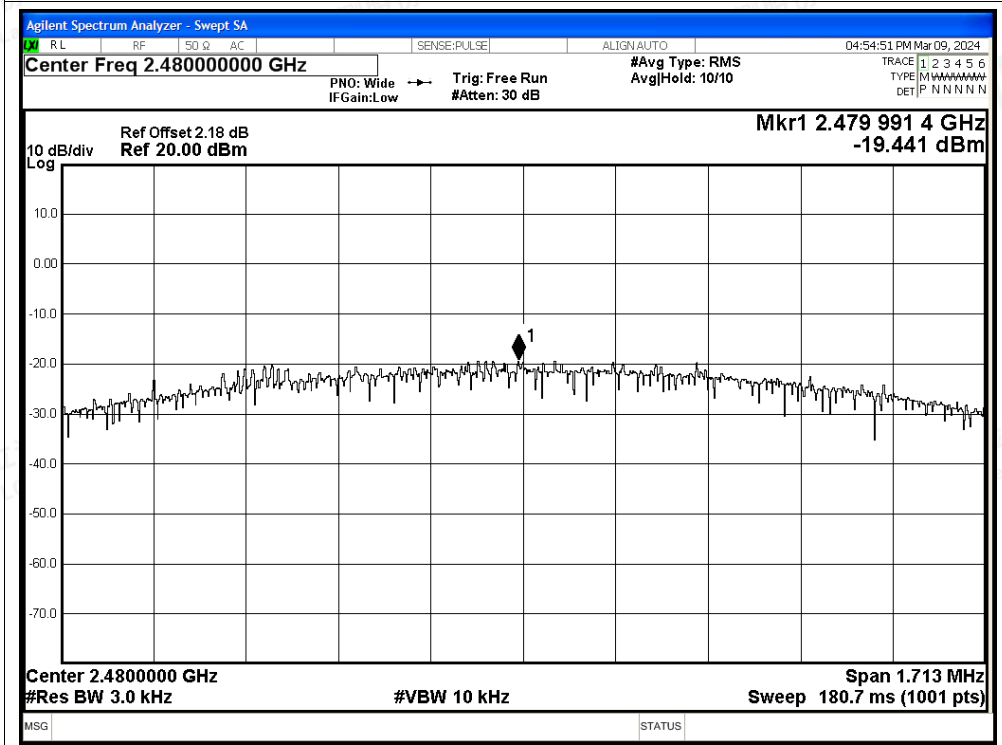




PSD NVNT BLE 2M 2440MHz Ant



PSD NVNT BLE 2M 2480MHz Ant





B.4 Band Edge

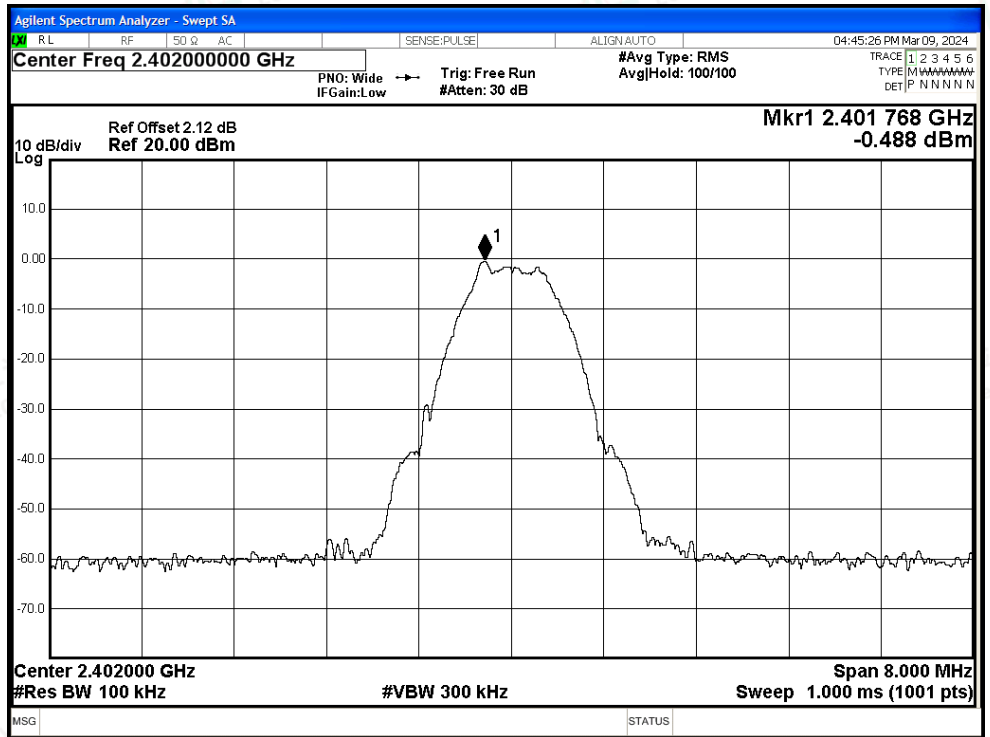
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant | -55.81 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant | -57.08 | -20 | Pass |
| NVNT | BLE 2M | 2402 | Ant | -45.54 | -20 | Pass |
| NVNT | BLE 2M | 2480 | Ant | -58.15 | -20 | Pass |



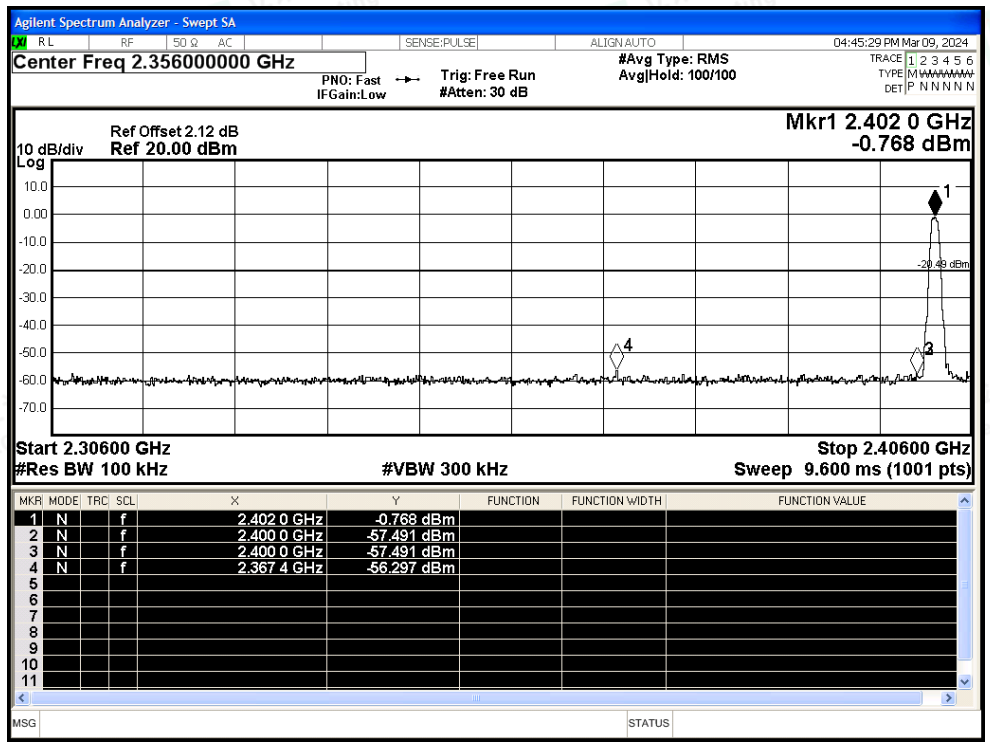


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant Ref

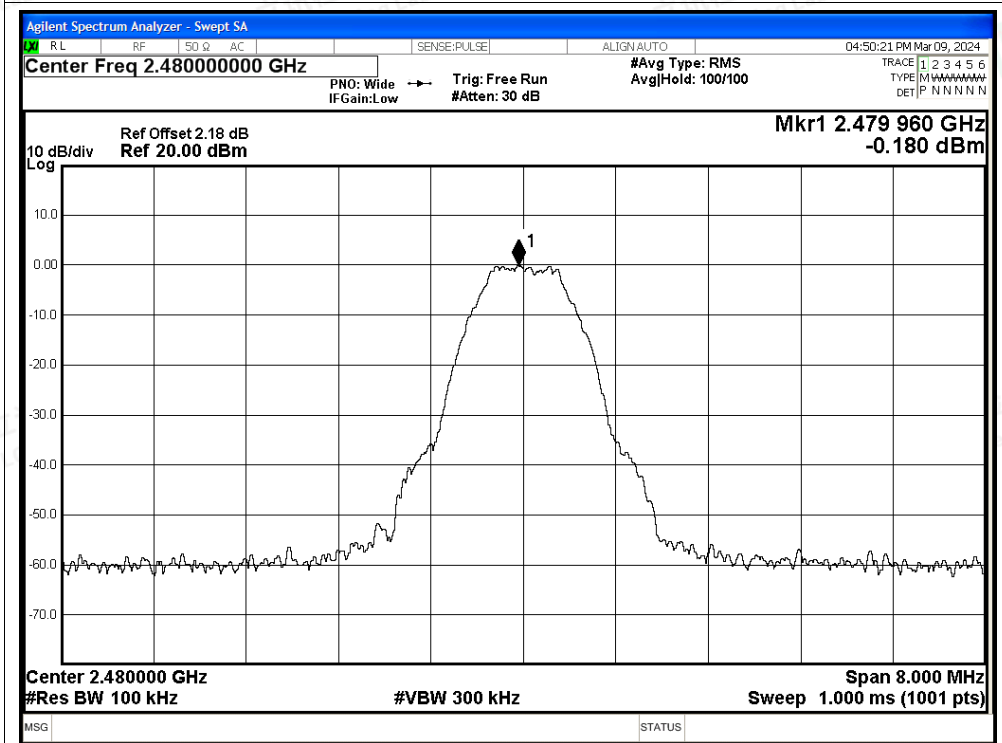


Band Edge NVNT BLE 1M 2402MHz Ant Emission

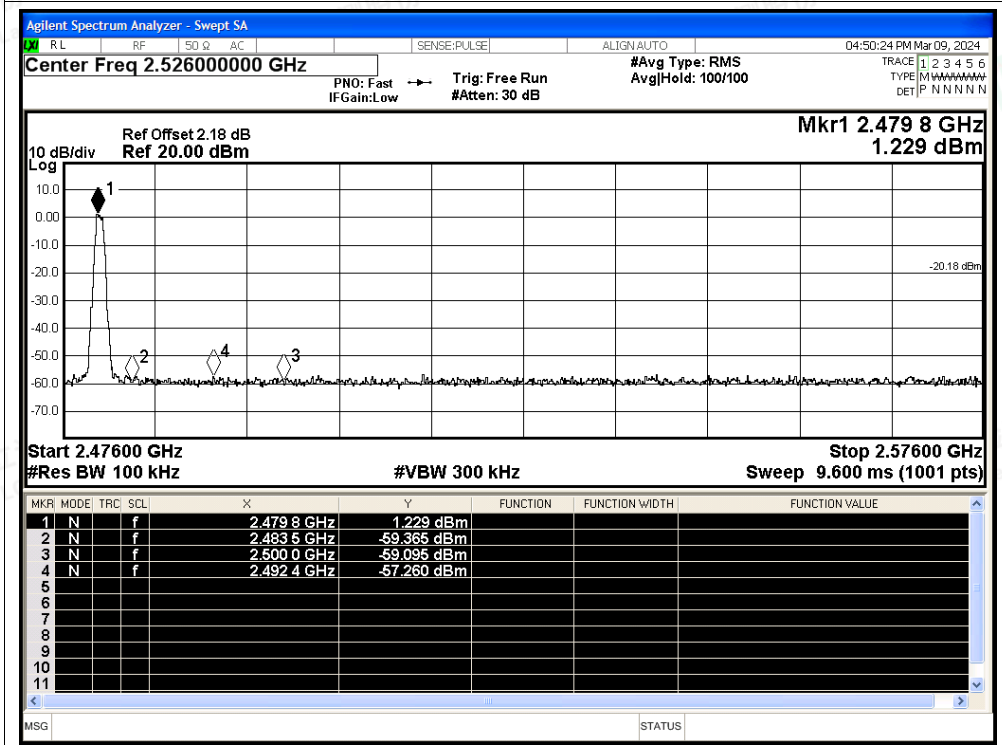




Band Edge NVNT BLE 1M 2480MHz Ant Ref

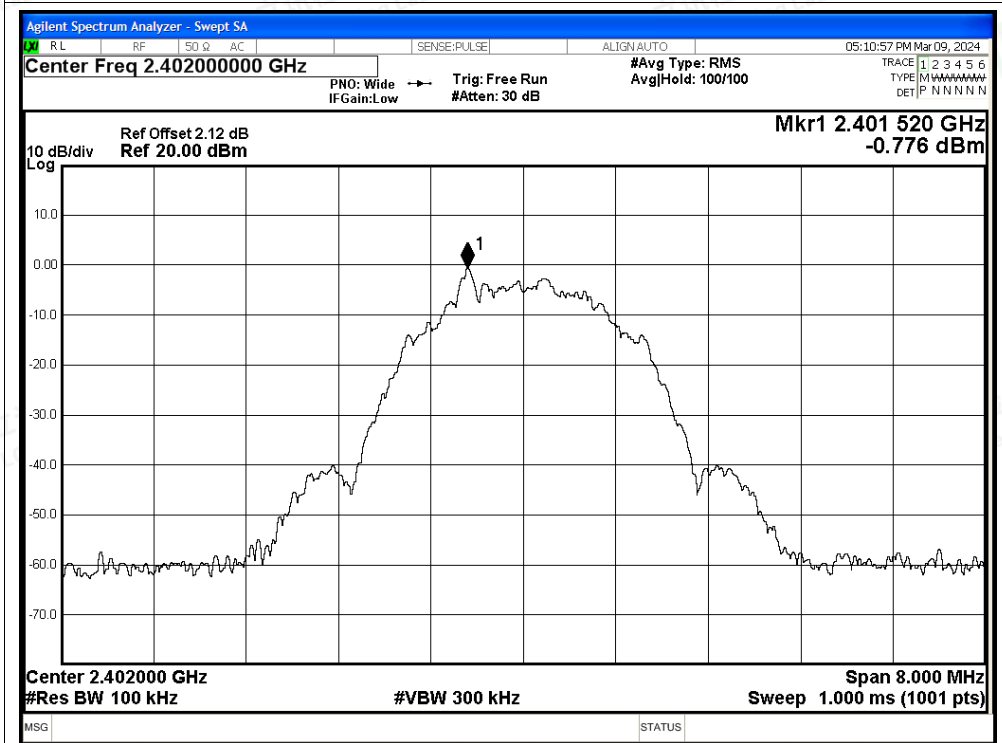


Band Edge NVNT BLE 1M 2480MHz Ant Emission

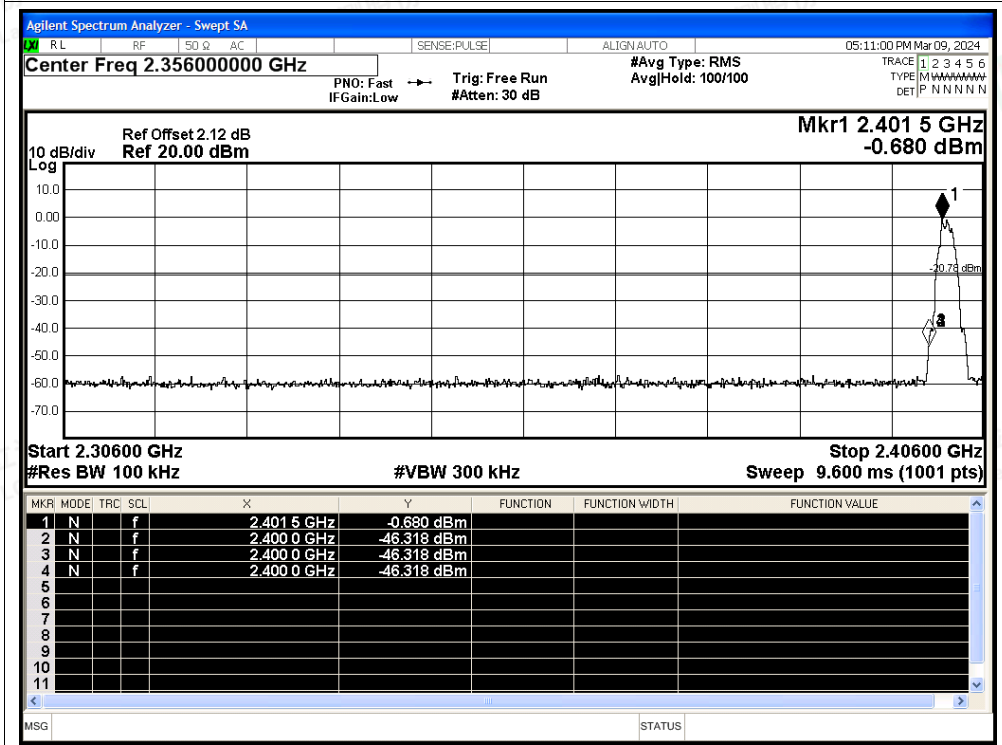




Band Edge NVNT BLE 2M 2402MHz Ant Ref

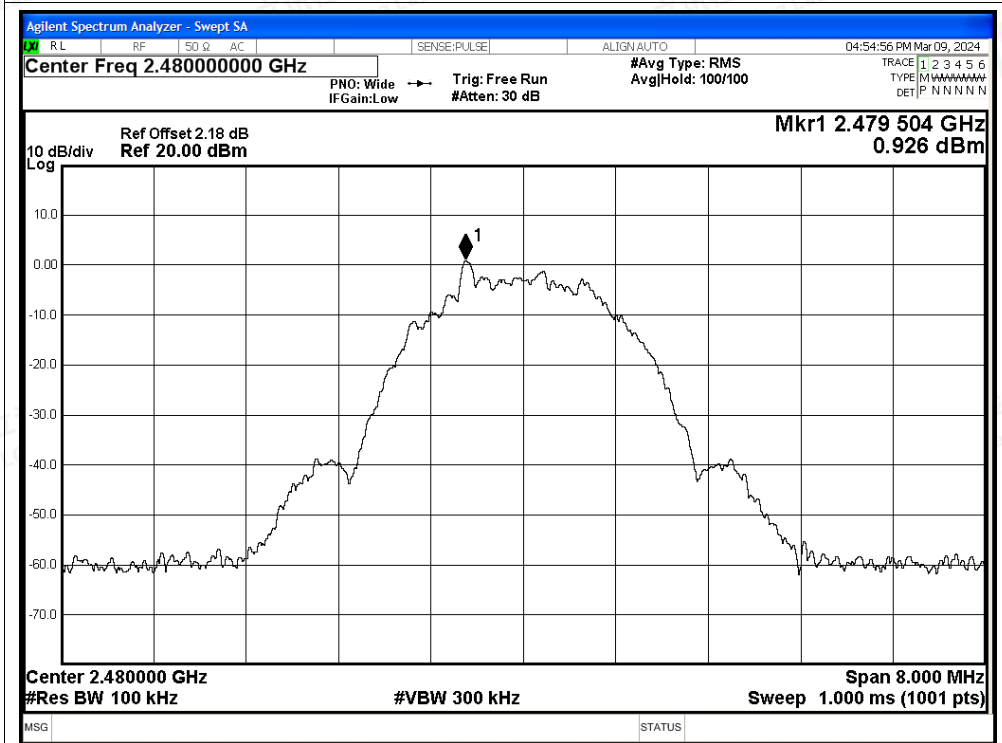


Band Edge NVNT BLE 2M 2402MHz Ant Emission

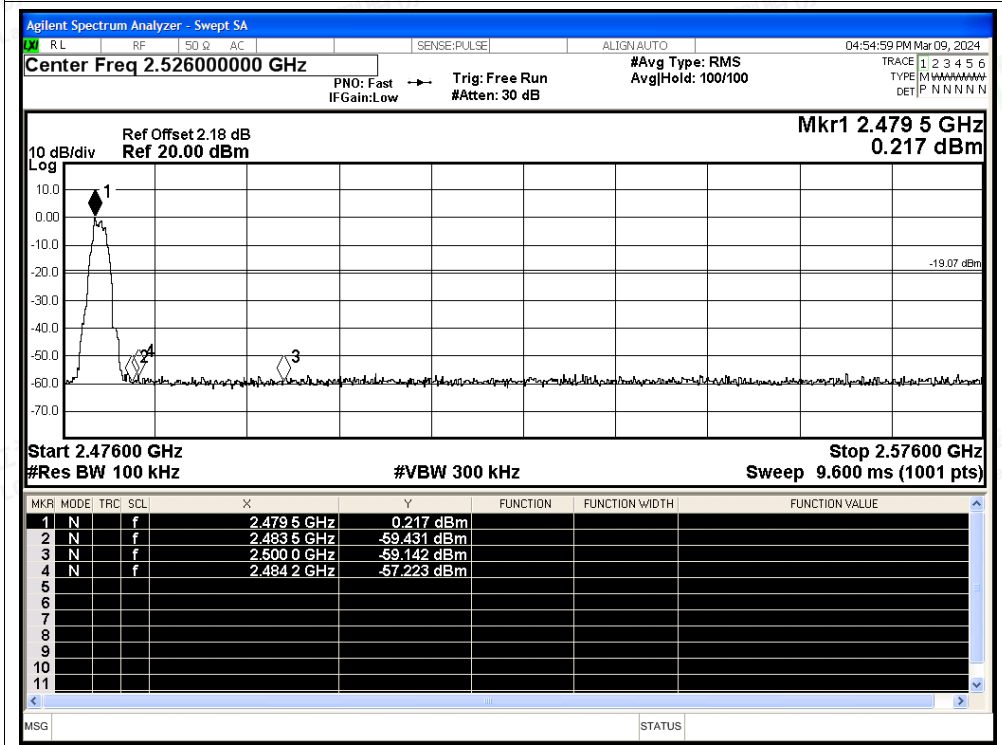




Band Edge NVNT BLE 2M 2480MHz Ant Ref



Band Edge NVNT BLE 2M 2480MHz Ant Emission





B.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant | -55.45 | -20 | Pass |
| NVNT | BLE 1M | 2440 | Ant | -57.79 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant | -56.63 | -20 | Pass |
| NVNT | BLE 2M | 2402 | Ant | -53.74 | -20 | Pass |
| NVNT | BLE 2M | 2440 | Ant | -56.5 | -20 | Pass |
| NVNT | BLE 2M | 2480 | Ant | -56.16 | -20 | Pass |

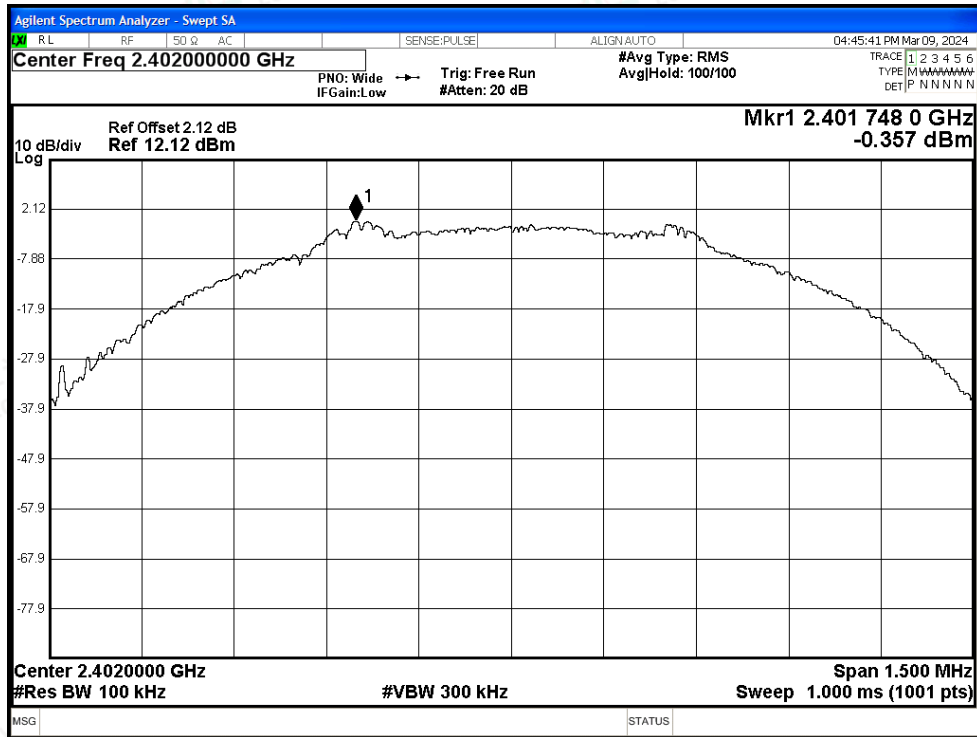


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Scan code to check authenticity

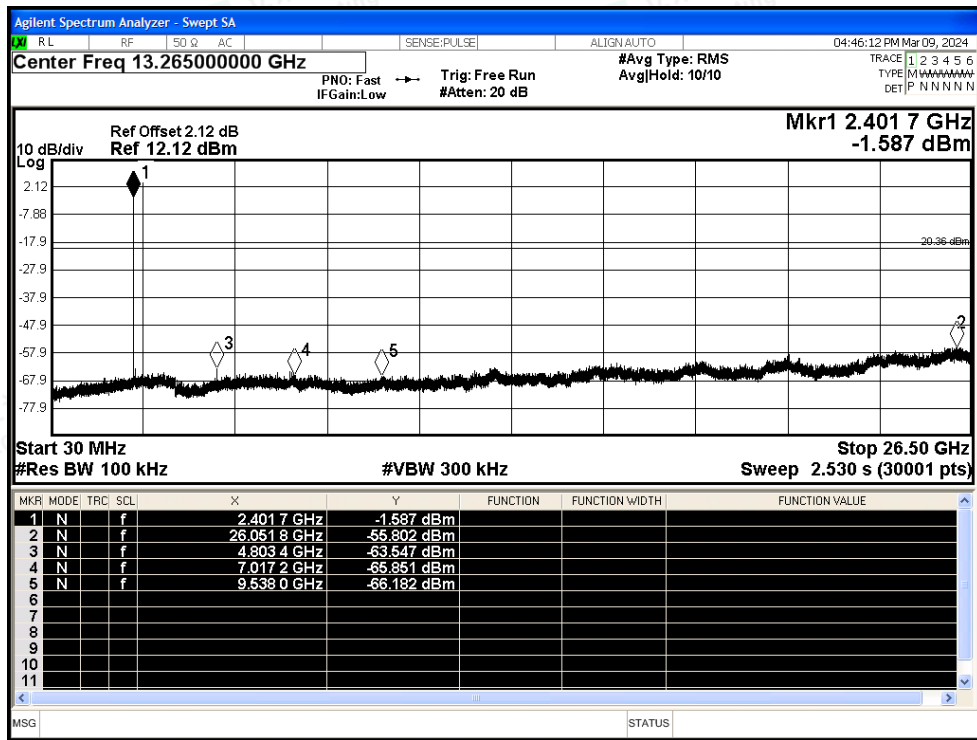


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant Ref

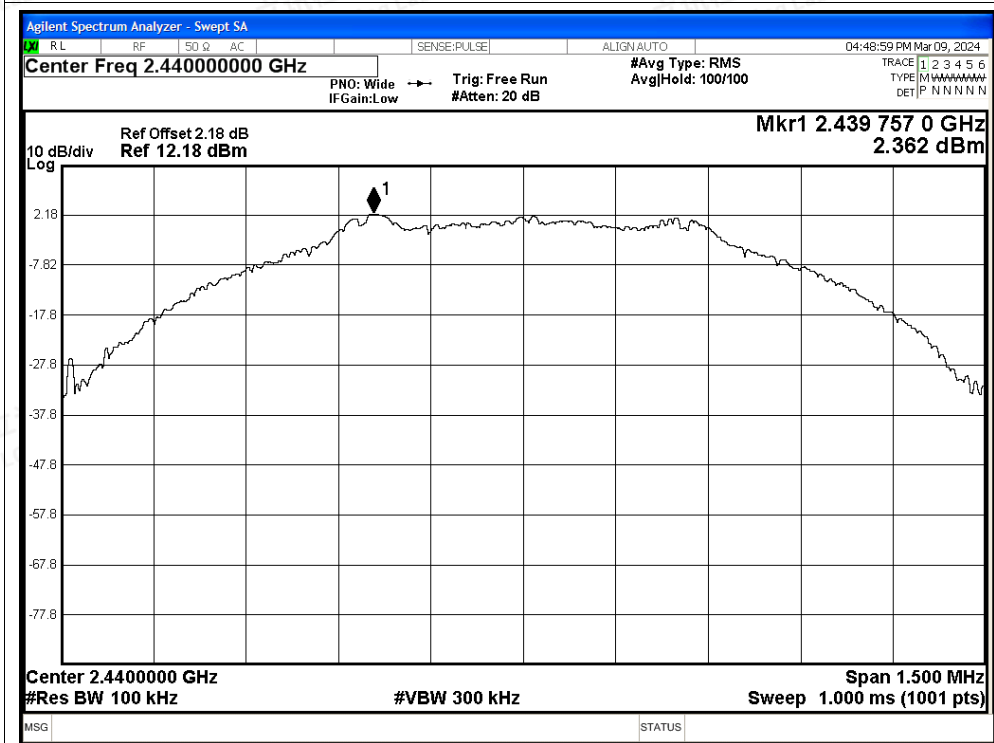


Tx. Spurious NVNT BLE 1M 2402MHz Ant Emission

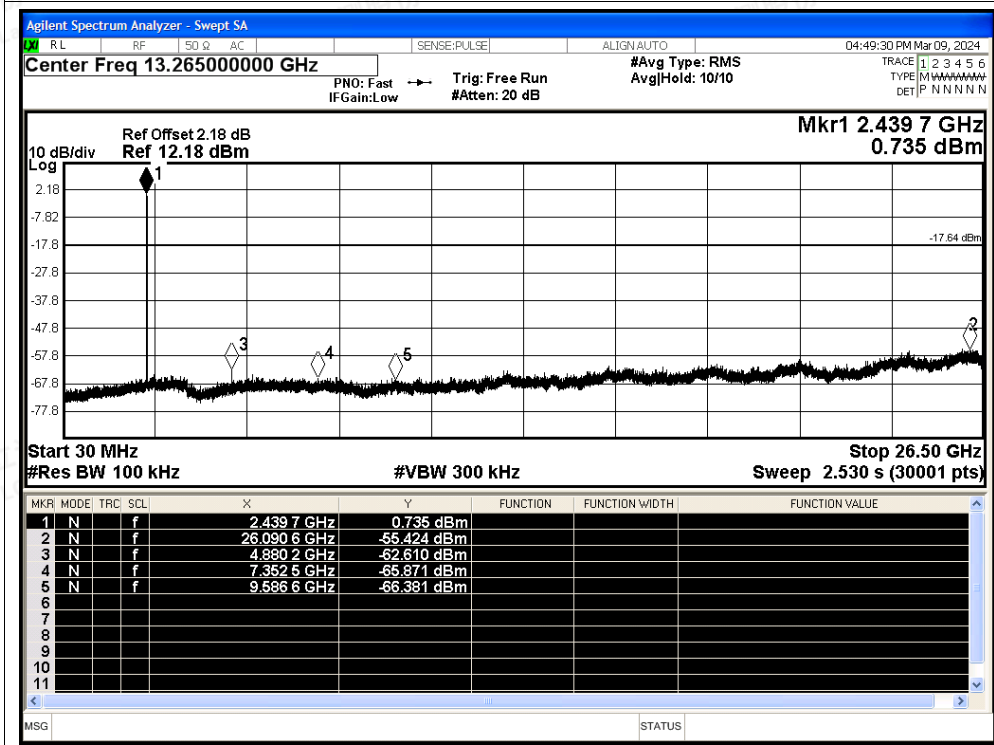




Tx. Spurious NVNT BLE 1M 2440MHz Ant Ref

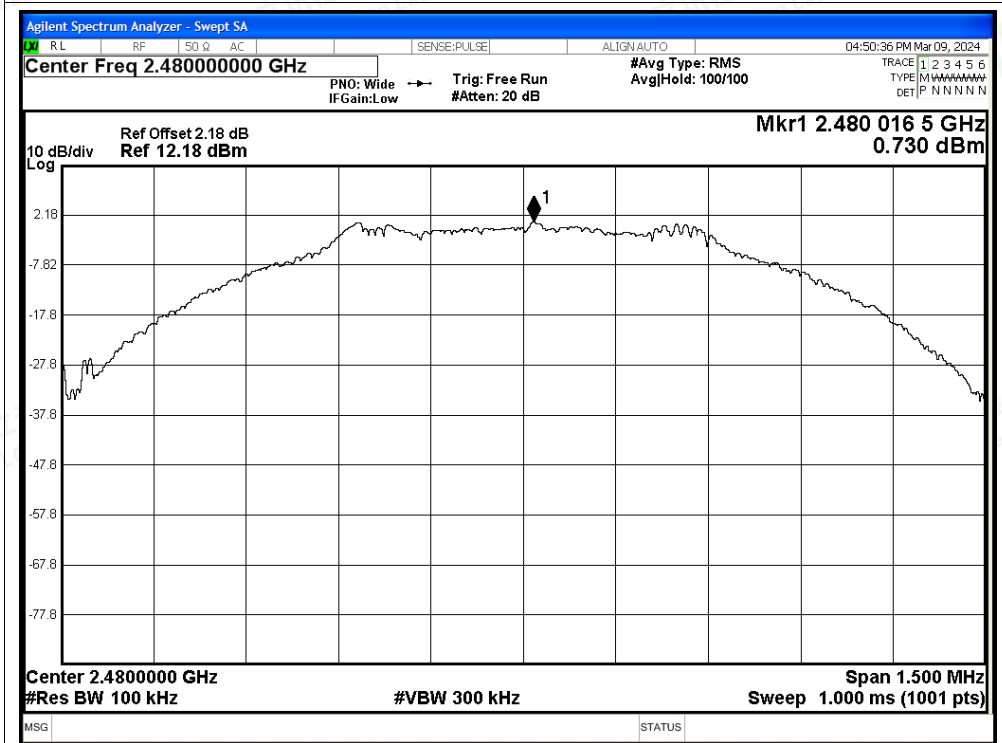


Tx. Spurious NVNT BLE 1M 2440MHz Ant Emission

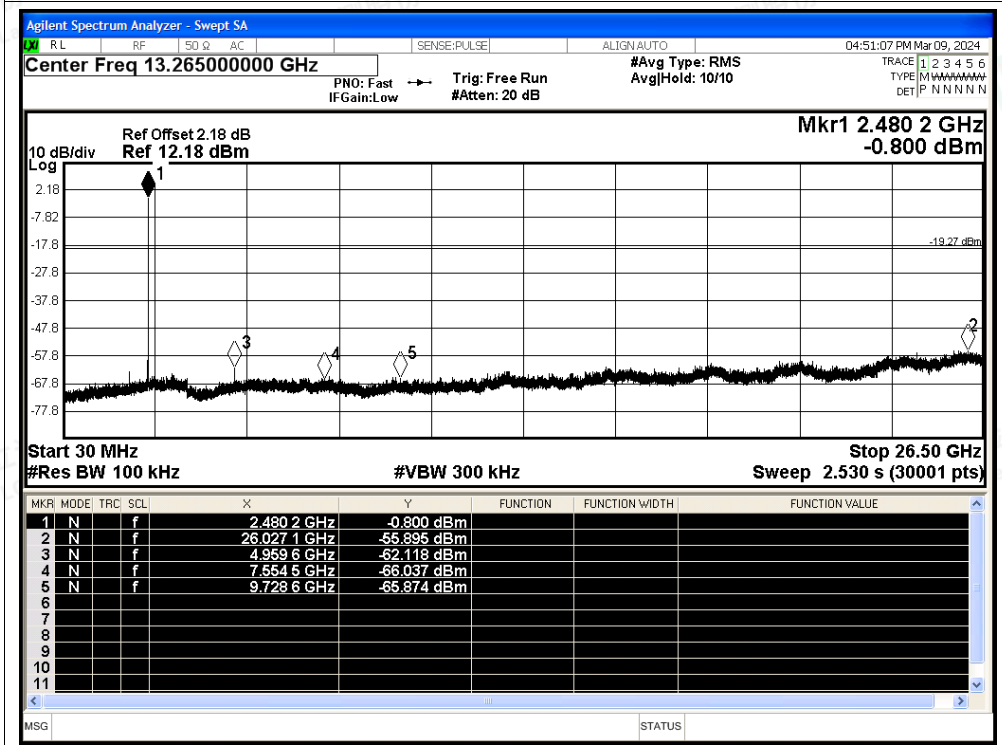




Tx. Spurious NVNT BLE 1M 2480MHz Ant Ref

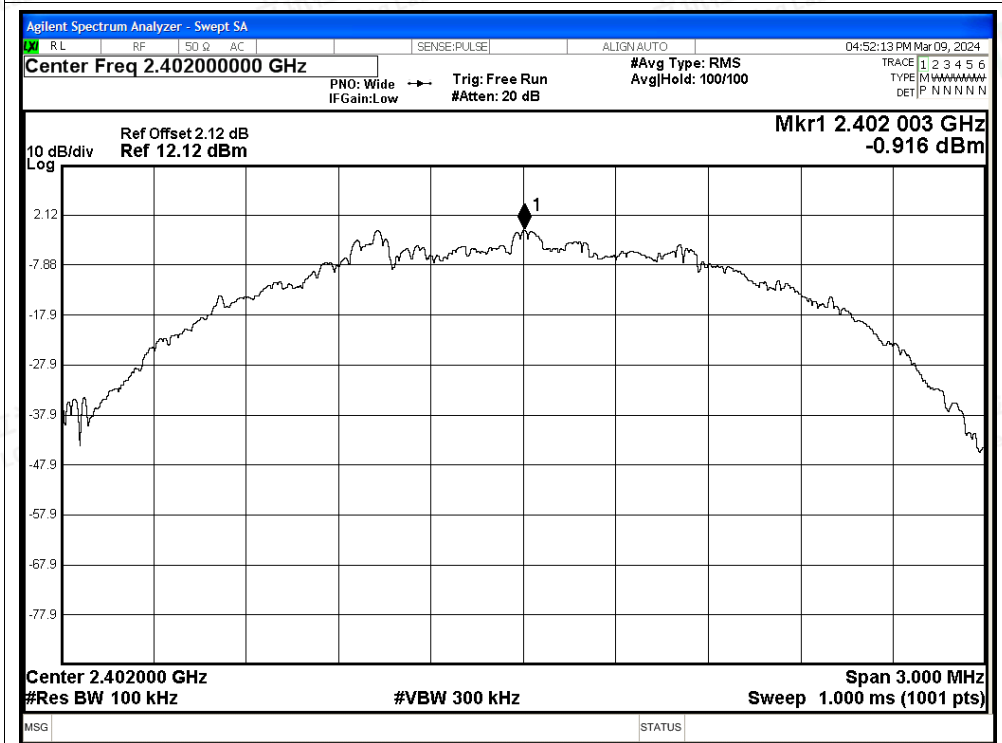


Tx. Spurious NVNT BLE 1M 2480MHz Ant Emission

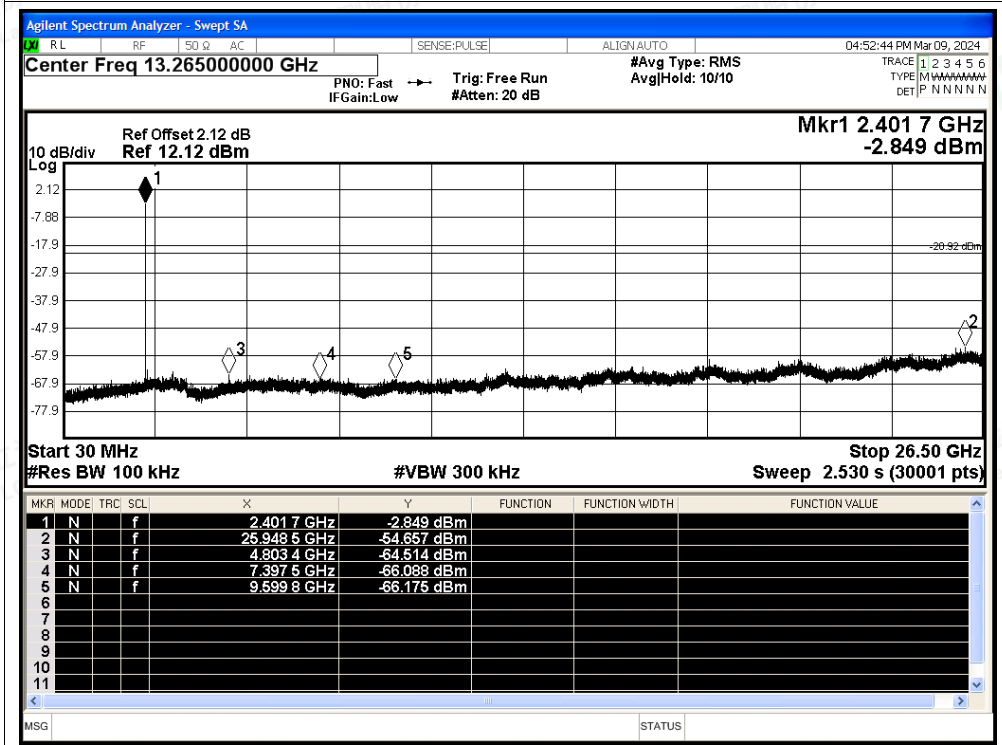




Tx. Spurious NVNT BLE 2M 2402MHz Ant Ref

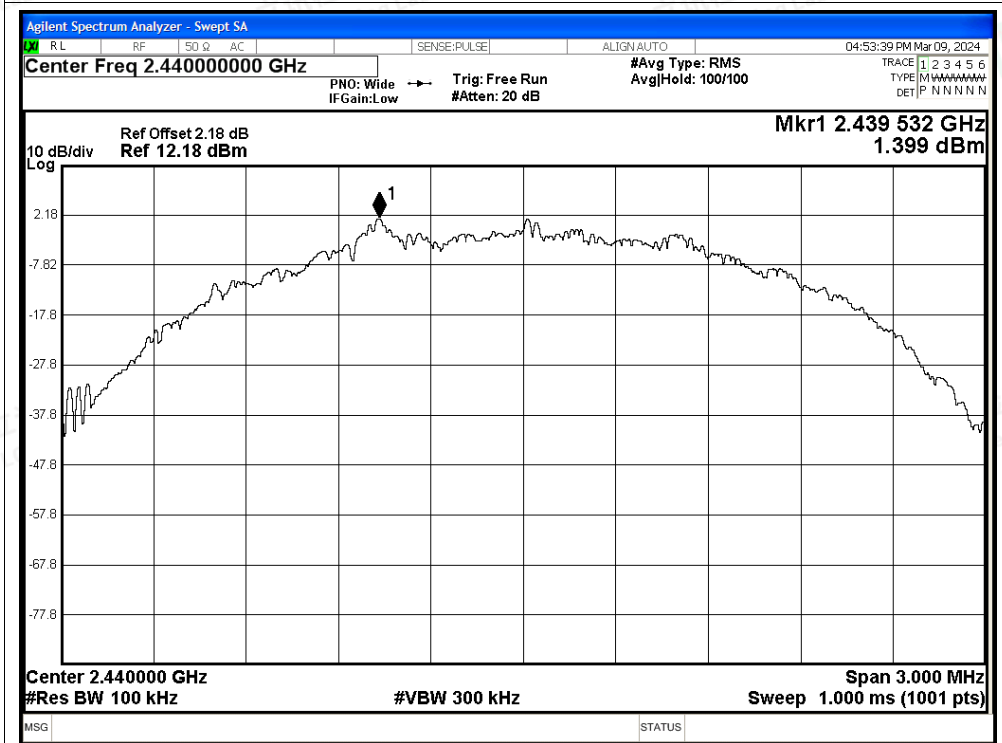


Tx. Spurious NVNT BLE 2M 2402MHz Ant Emission

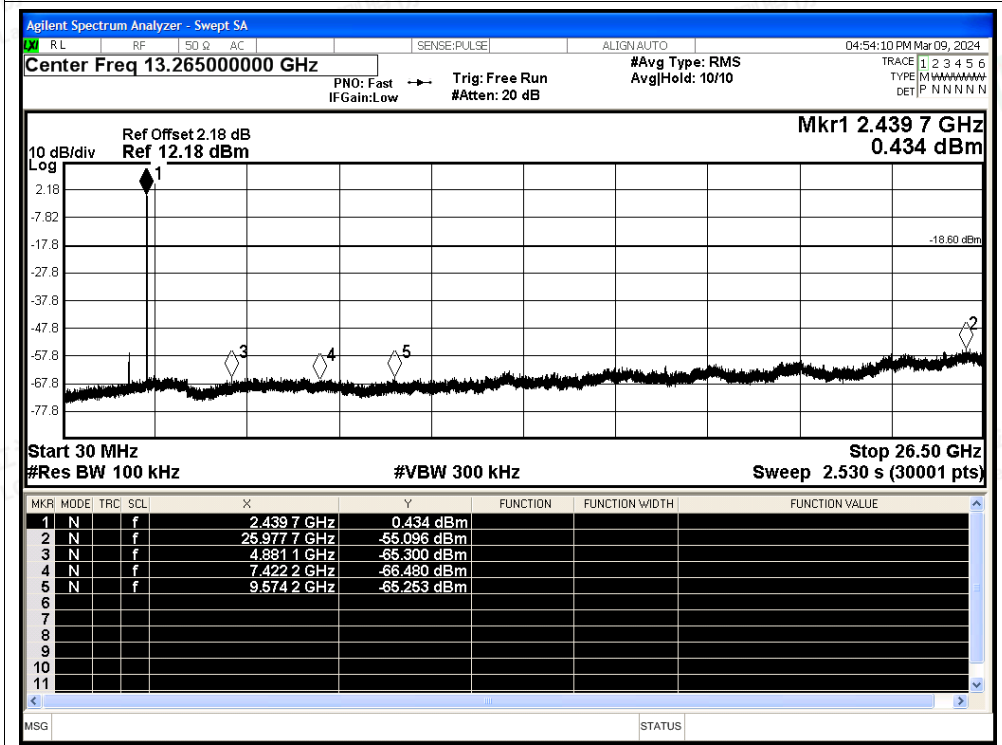




Tx. Spurious NVNT BLE 2M 2440MHz Ant Ref

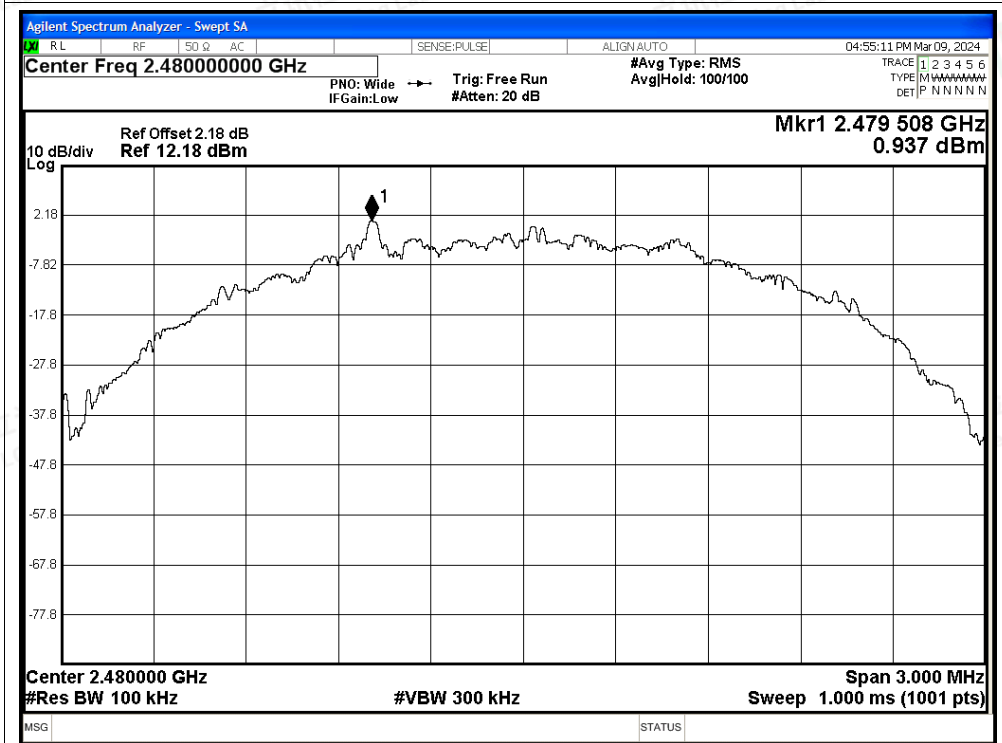


Tx. Spurious NVNT BLE 2M 2440MHz Ant Emission

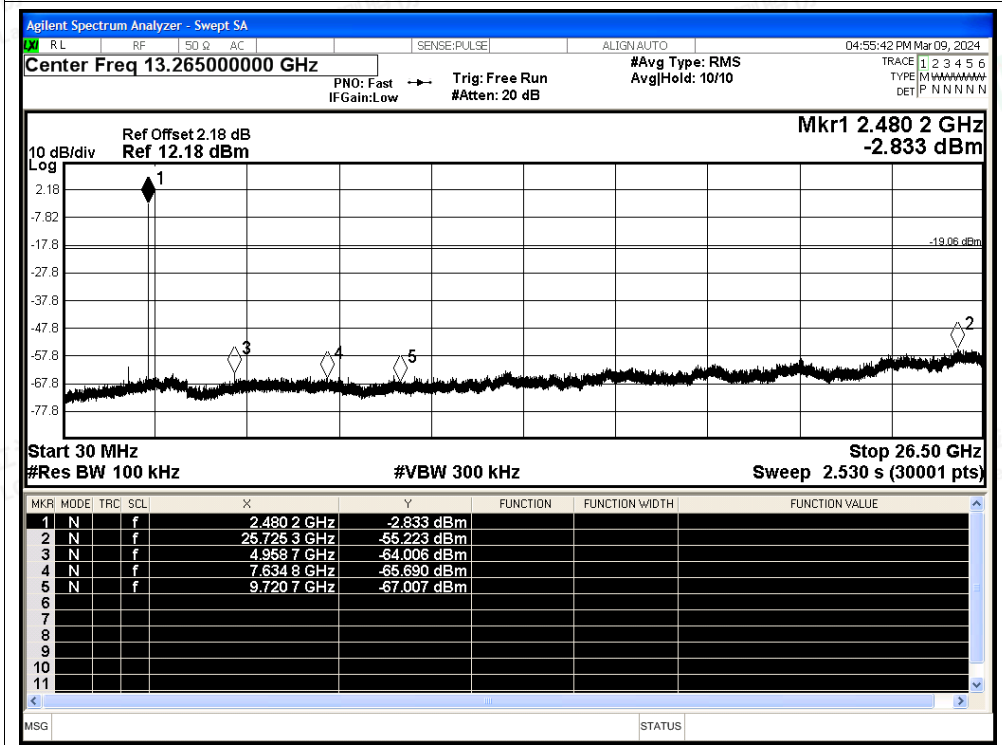




Tx. Spurious NVNT BLE 2M 2480MHz Ant Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant Emission





B.6 Duty Cycle

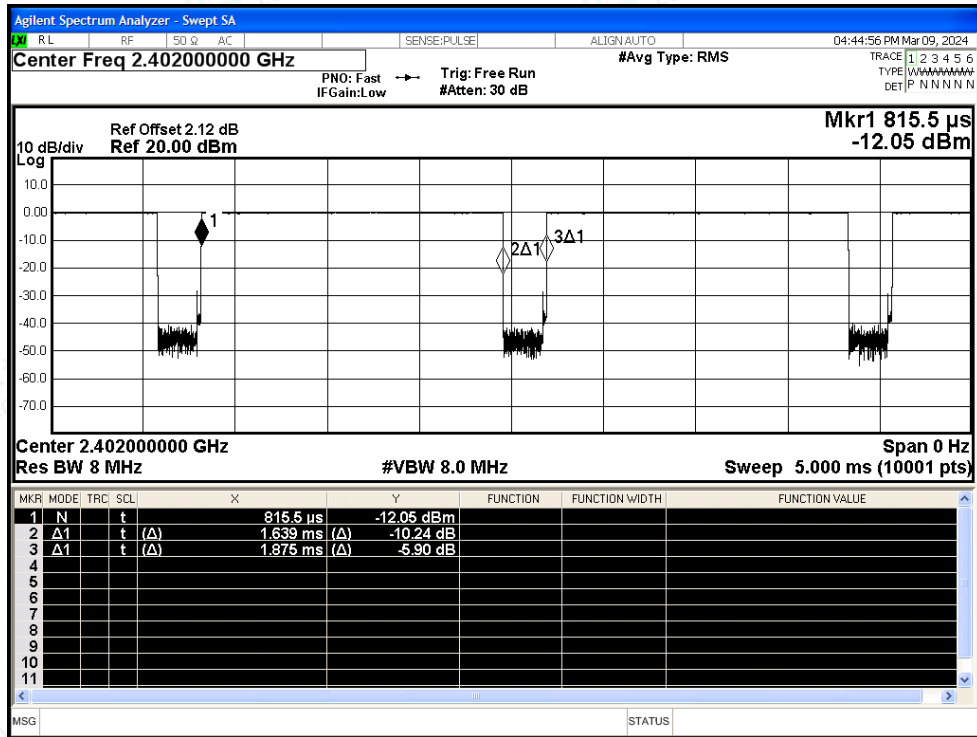
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT | BLE 1M | 2402 | Ant | 87.39 | 0.59 | 0.61 |
| NVNT | BLE 1M | 2440 | Ant | 87.41 | 0.58 | 0.61 |
| NVNT | BLE 1M | 2480 | Ant | 87.39 | 0.59 | 0.61 |
| NVNT | BLE 2M | 2402 | Ant | 65.92 | 1.81 | 1.21 |
| NVNT | BLE 2M | 2440 | Ant | 65.92 | 1.81 | 1.21 |
| NVNT | BLE 2M | 2480 | Ant | 65.96 | 1.81 | 1.21 |



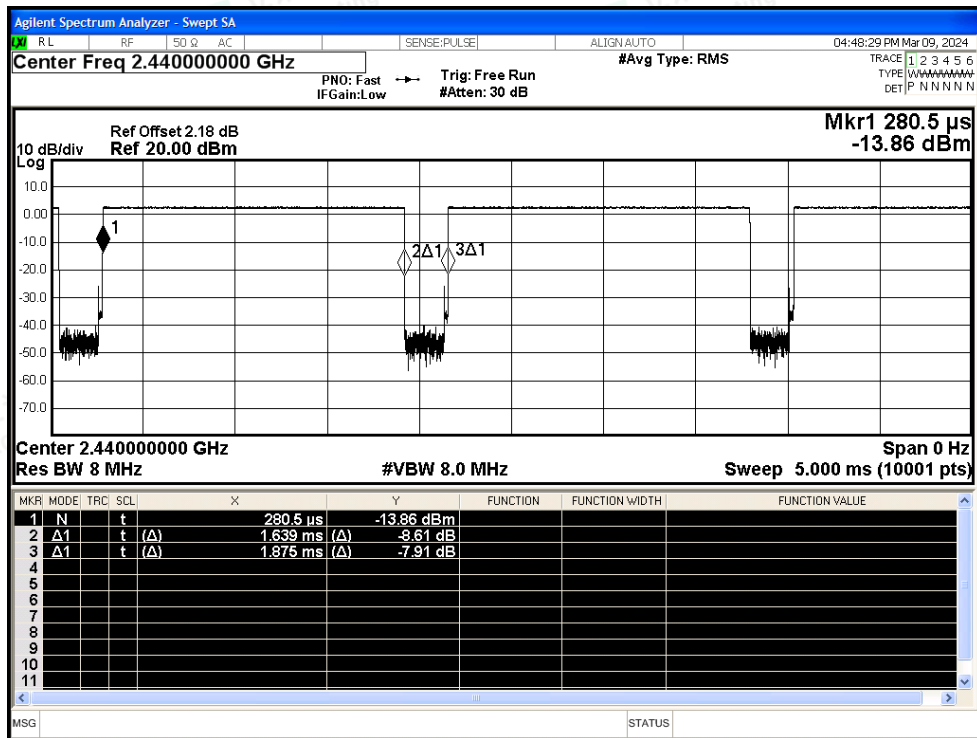


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant

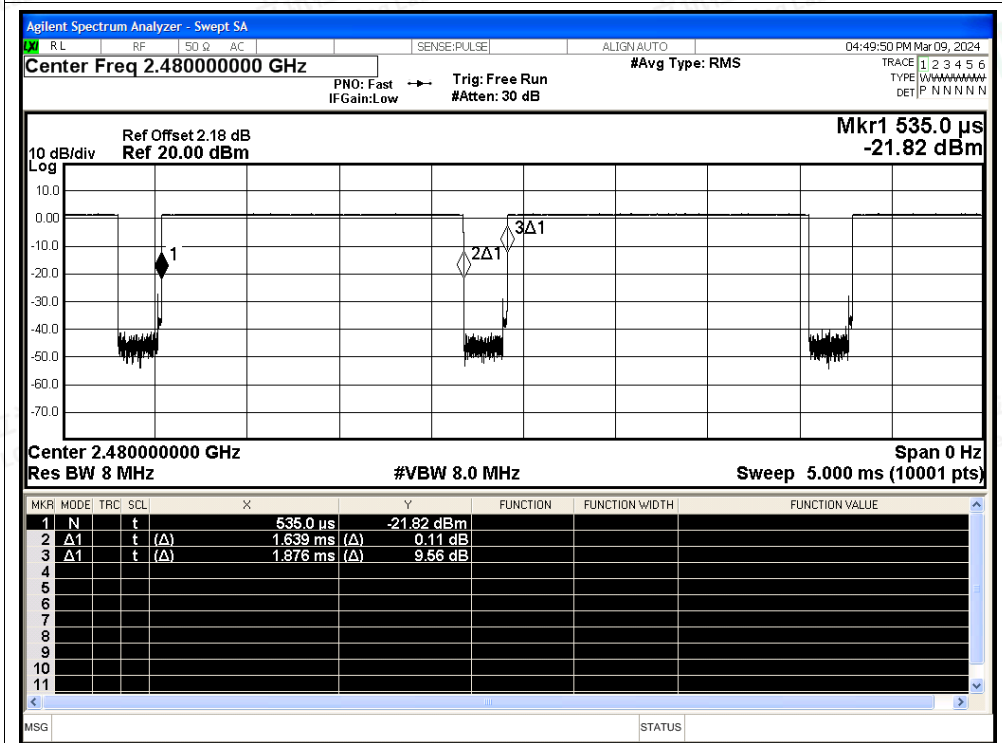


Duty Cycle NVNT BLE 1M 2440MHz Ant

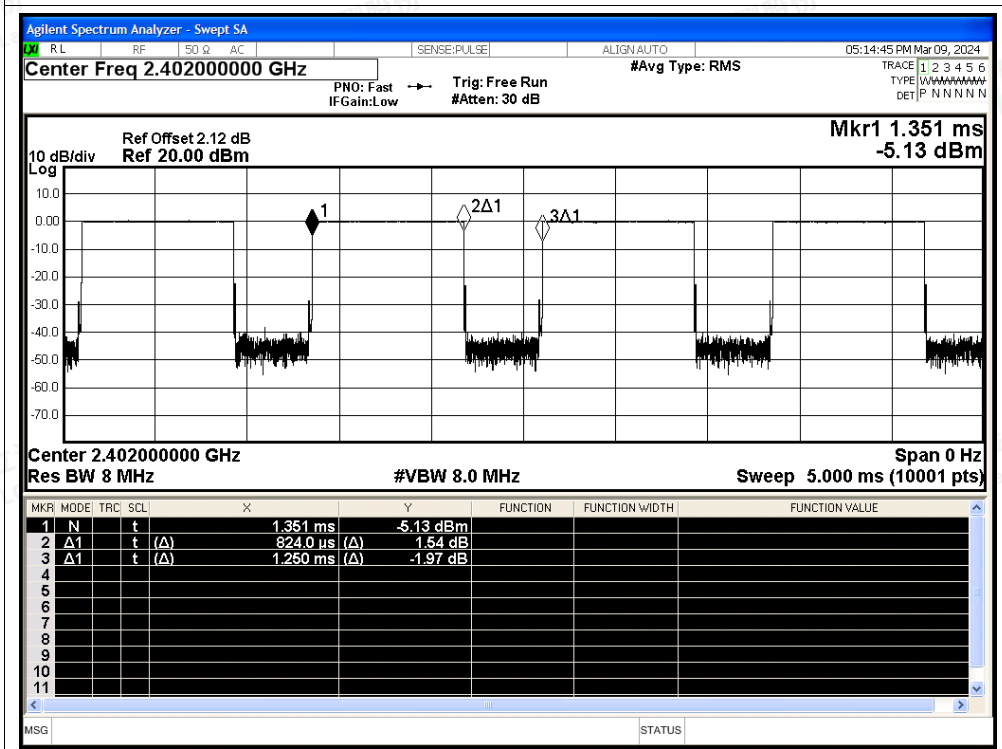




Duty Cycle NVNT BLE 1M 2480MHz Ant

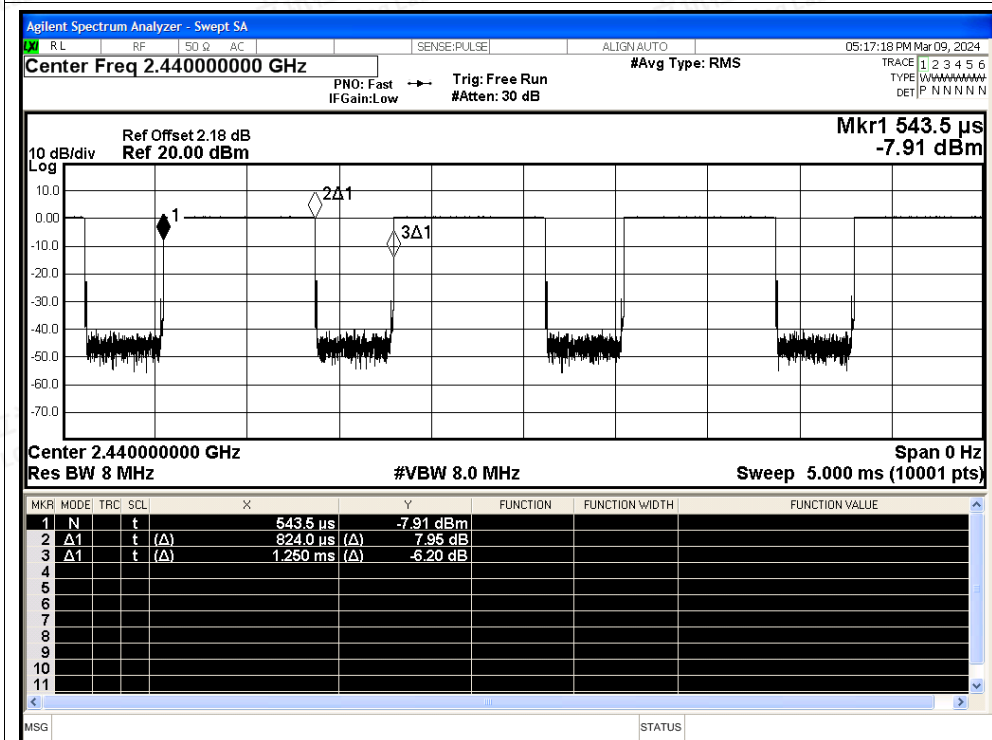


Duty Cycle NVNT BLE 2M 2402MHz Ant

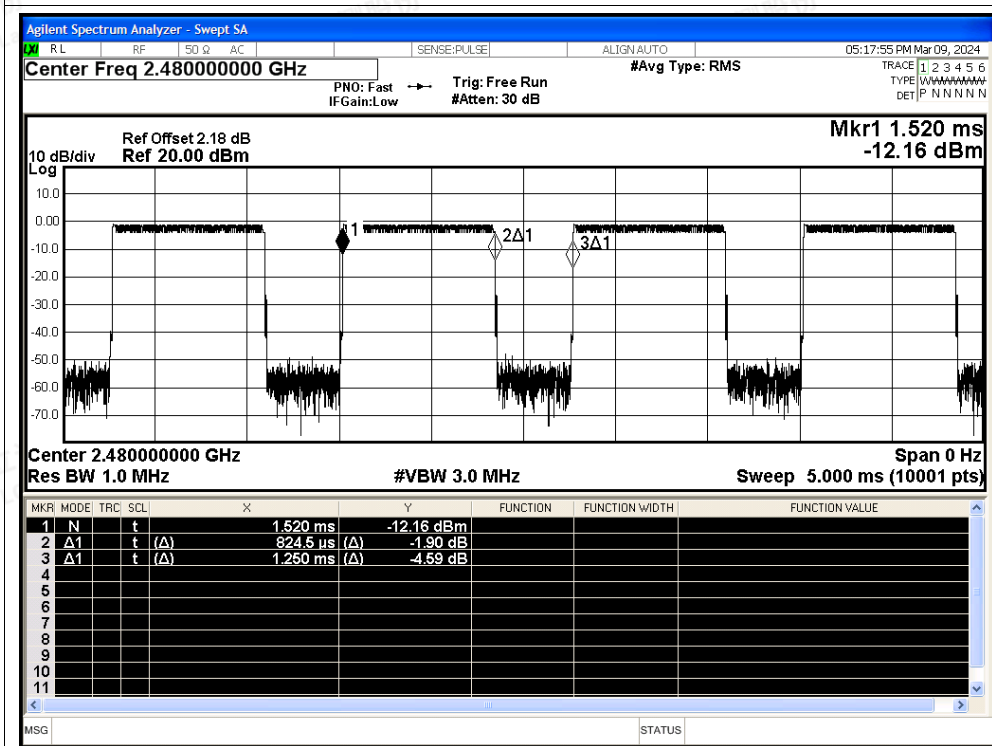




Duty Cycle NVNT BLE 2M 2440MHz Ant



Duty Cycle NVNT BLE 2M 2480MHz Ant





B.7 Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT | BLE 1M | 2402 | Ant | 2310 | -51.09 | 2 | - | 46.17 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant | 2310 | -58.4 | 2 | 0.59 | 39.45 | Average | 54 | Pass |
| NVNT | BLE 1M | 2402 | Ant | 2341.776 | -47.88 | 2 | - | 49.38 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant | 2389.2 | -57.68 | 2 | 0.59 | 40.17 | Average | 54 | Pass |
| NVNT | BLE 1M | 2402 | Ant | 2390 | -51.58 | 2 | - | 45.68 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant | 2390 | -58.5 | 2 | 0.59 | 39.35 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant | 2483.5 | -49.28 | 2 | - | 47.98 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant | 2483.5 | -57.68 | 2 | 0.59 | 40.17 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant | 2484.712 | -41.77 | 2 | - | 55.49 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant | 2483.632 | -56.78 | 2 | 0.59 | 41.07 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant | 2500 | -50.29 | 2 | - | 46.97 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant | 2500 | -58.27 | 2 | 0.59 | 39.58 | Average | 54 | Pass |
| NVNT | BLE 2M | 2402 | Ant | 2310 | -48.68 | 2 | - | 48.58 | Peak | 74 | Pass |
| NVNT | BLE 2M | 2402 | Ant | 2310 | -58.76 | 2 | 1.81 | 40.31 | Average | 54 | Pass |
| NVNT | BLE 2M | 2402 | Ant | 2348.304 | -48.02 | 2 | - | 49.24 | Peak | 74 | Pass |
| NVNT | BLE 2M | 2402 | Ant | 2363.952 | -57.5 | 2 | 1.81 | 41.57 | Average | 54 | Pass |
| NVNT | BLE 2M | 2402 | Ant | 2390 | -49.62 | 2 | - | 47.64 | Peak | 74 | Pass |
| NVNT | BLE 2M | 2402 | Ant | 2390 | -58.6 | 2 | 1.81 | 40.47 | Average | 54 | Pass |
| NVNT | BLE 2M | 2480 | Ant | 2483.5 | -50.34 | 2 | - | 46.92 | Peak | 74 | Pass |
| NVNT | BLE 2M | 2480 | Ant | 2483.5 | -57.3 | 2 | 1.81 | 41.77 | Average | 54 | Pass |
| NVNT | BLE 2M | 2480 | Ant | 2484.112 | -44.29 | 2 | - | 52.97 | Peak | 74 | Pass |
| NVNT | BLE 2M | 2480 | Ant | 2483.536 | -56.94 | 2 | 1.81 | 42.13 | Average | 54 | Pass |
| NVNT | BLE 2M | 2480 | Ant | 2500 | -49.91 | 2 | - | 47.35 | Peak | 74 | Pass |
| NVNT | BLE 2M | 2480 | Ant | 2500 | -57.71 | 2 | 1.81 | 41.36 | Average | 54 | Pass |

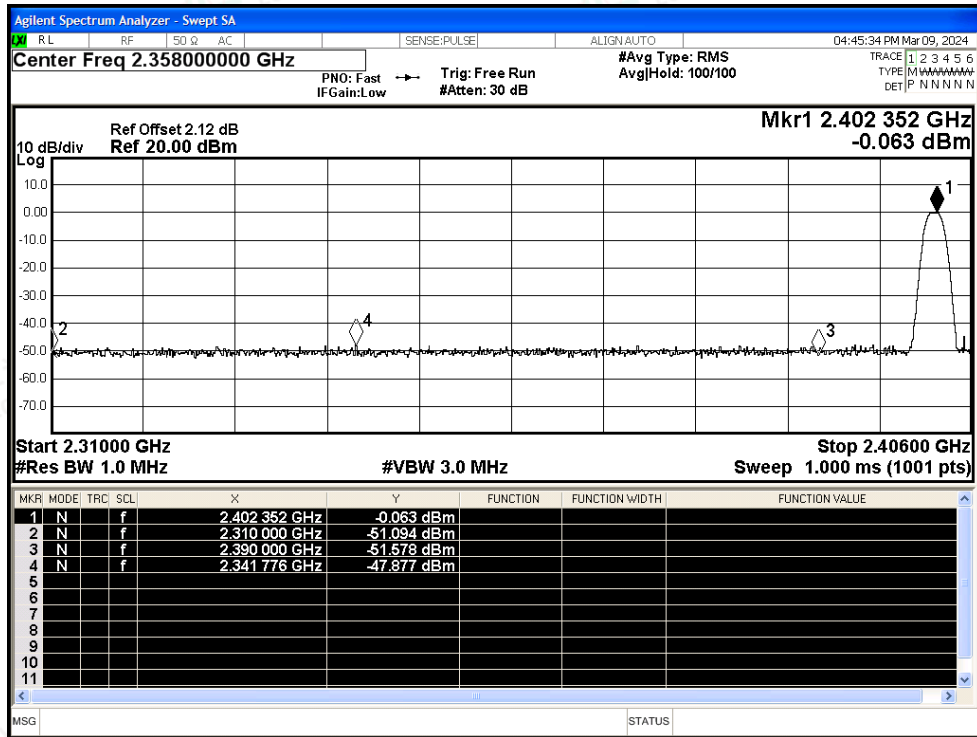


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

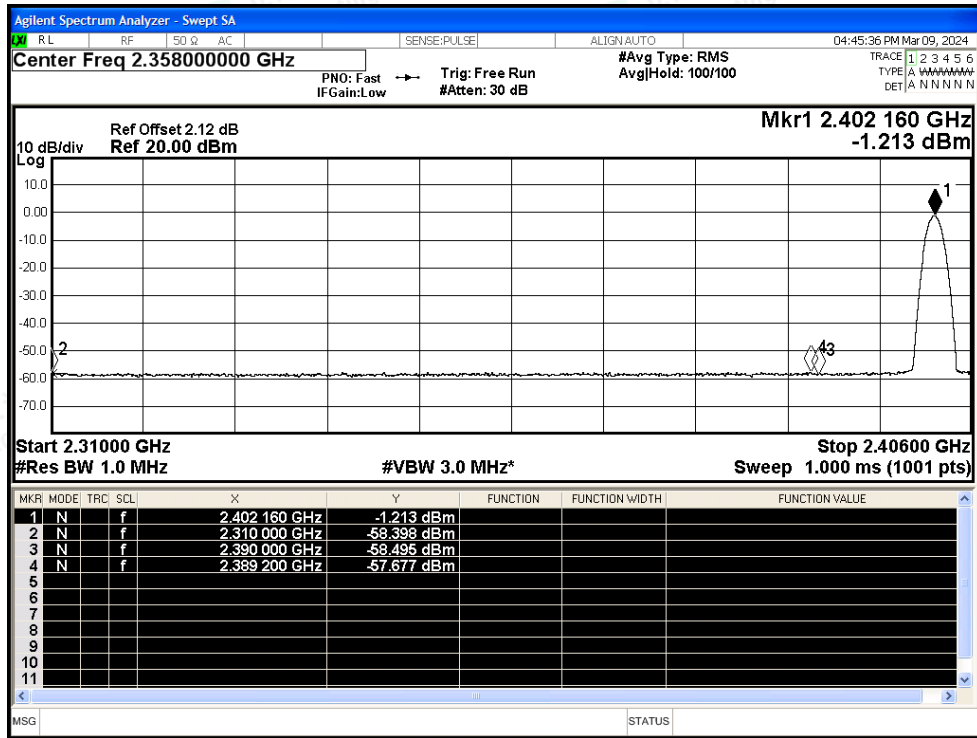


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant Peak

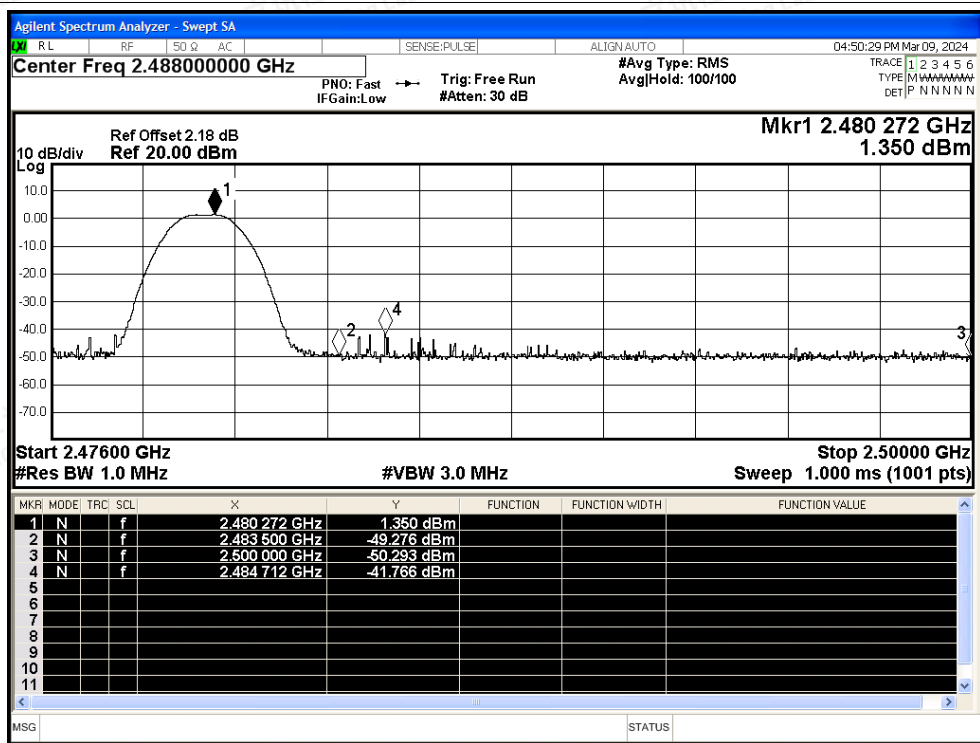


Restrict Band NVNT BLE 1M 2402MHz Ant Average

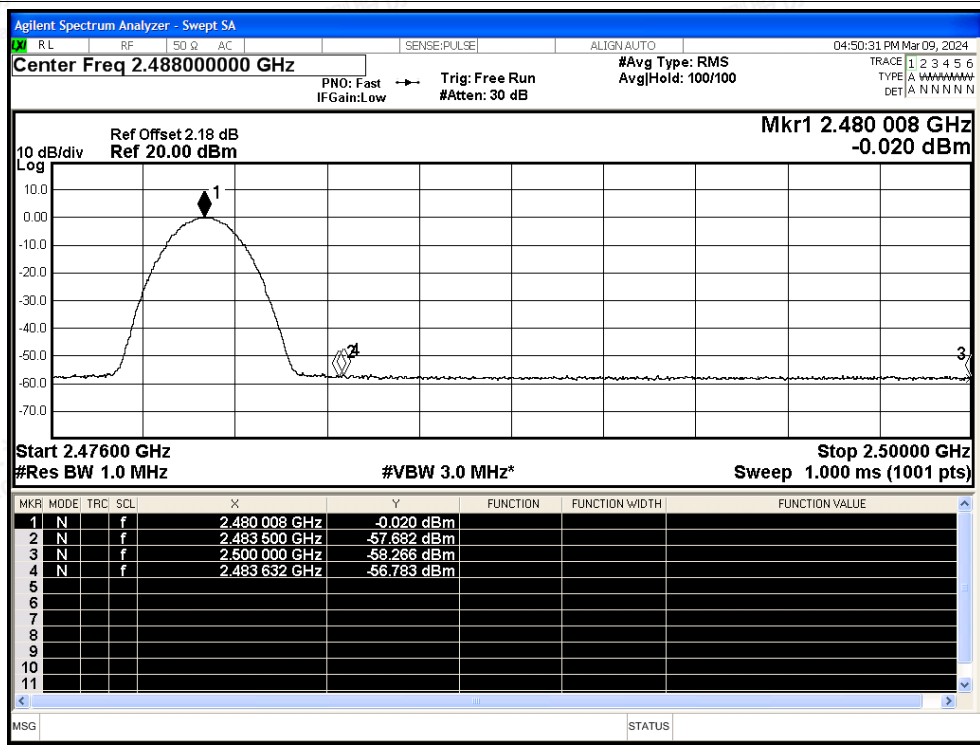




Restrict Band NVNT BLE 1M 2480MHz Ant Peak

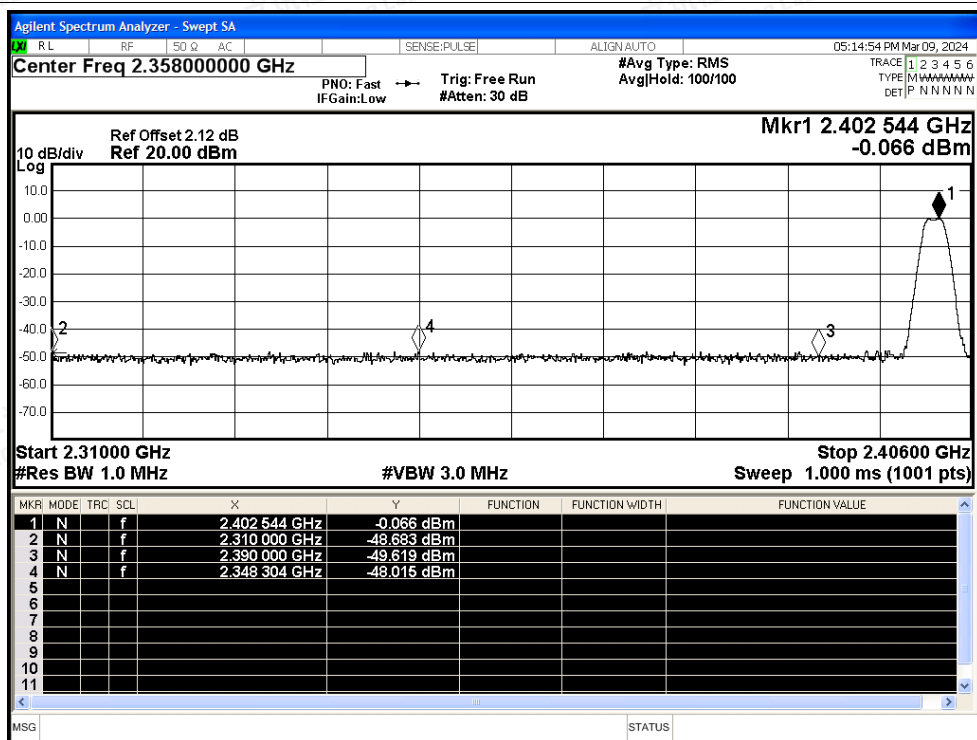


Restrict Band NVNT BLE 1M 2480MHz Ant Average

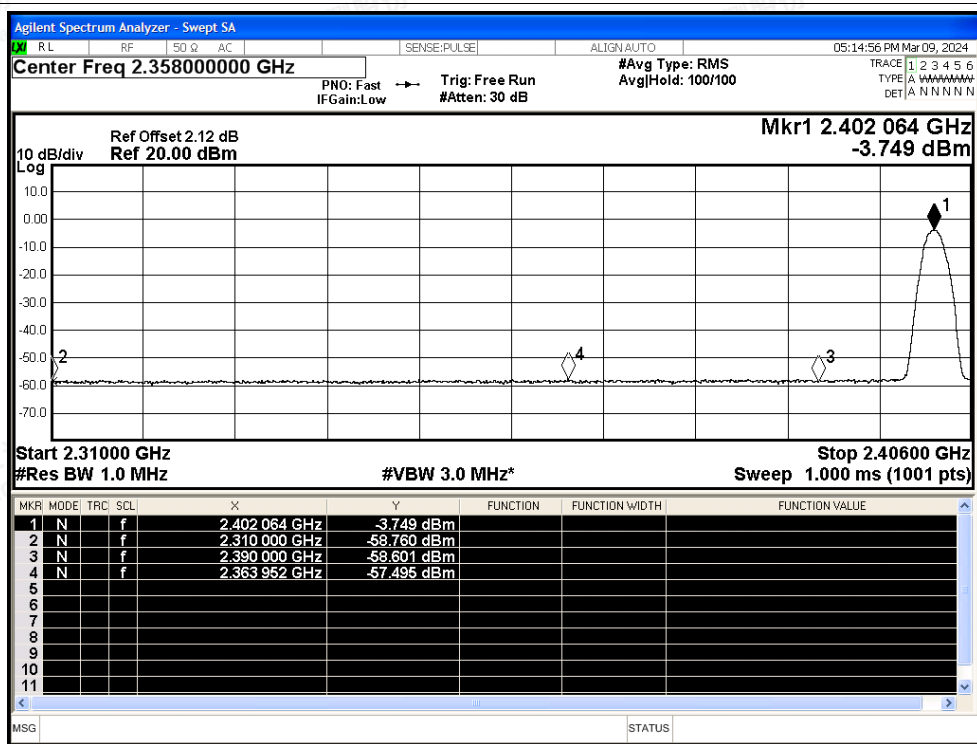




Restrict Band NVNT BLE 2M 2402MHz Ant Peak

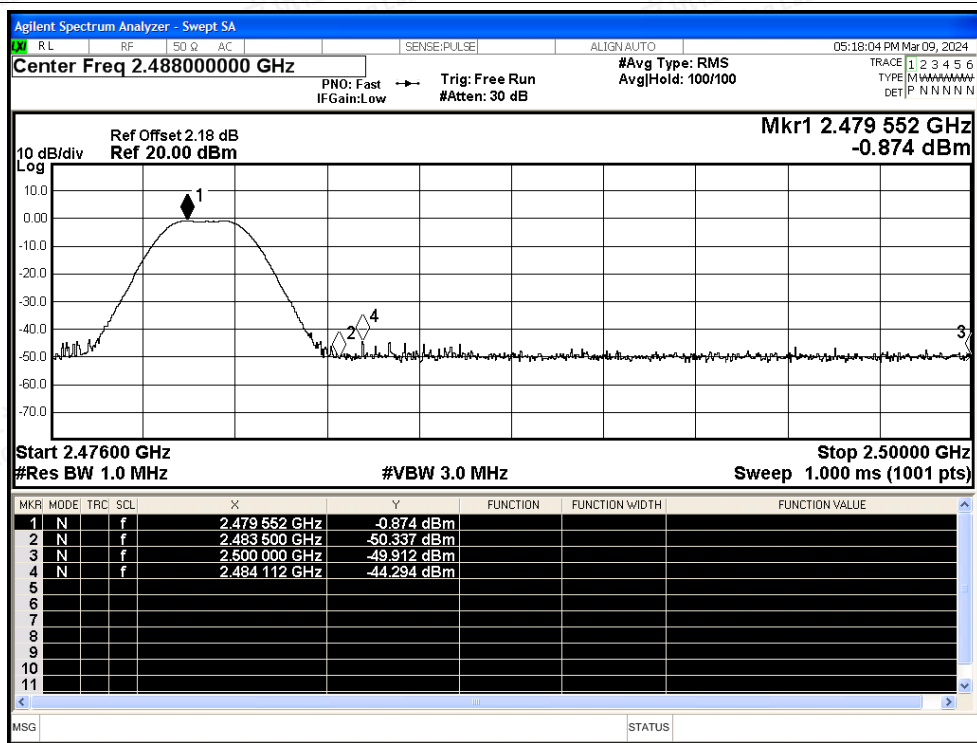


Restrict Band NVNT BLE 2M 2402MHz Ant Average





Restrict Band NVNT BLE 2M 2480MHz Ant Peak



Restrict Band NVNT BLE 2M 2480MHz Ant Average

