



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Urbanista Atlanta

Test Model: Urbanista Atlanta Scarlet Red

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 23.1° C |
| Relative Humidity: | 52.3% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Nick Peng |
| Supervised by: | Li Huan |





A.1 -20dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 0.974 | N/A | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | 0.972 | N/A | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | 1.018 | N/A | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 1.335 | N/A | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | 1.273 | N/A | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | 1.266 | N/A | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 1.34 | N/A | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | 1.294 | N/A | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | 1.288 | N/A | Pass |

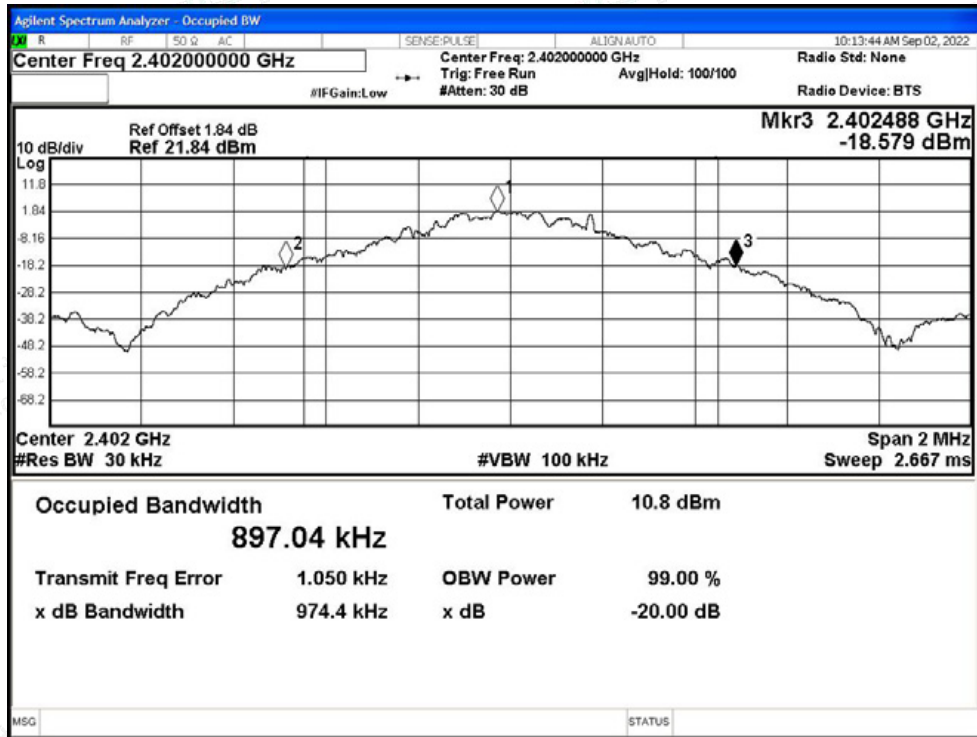


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Scan code to check authenticity

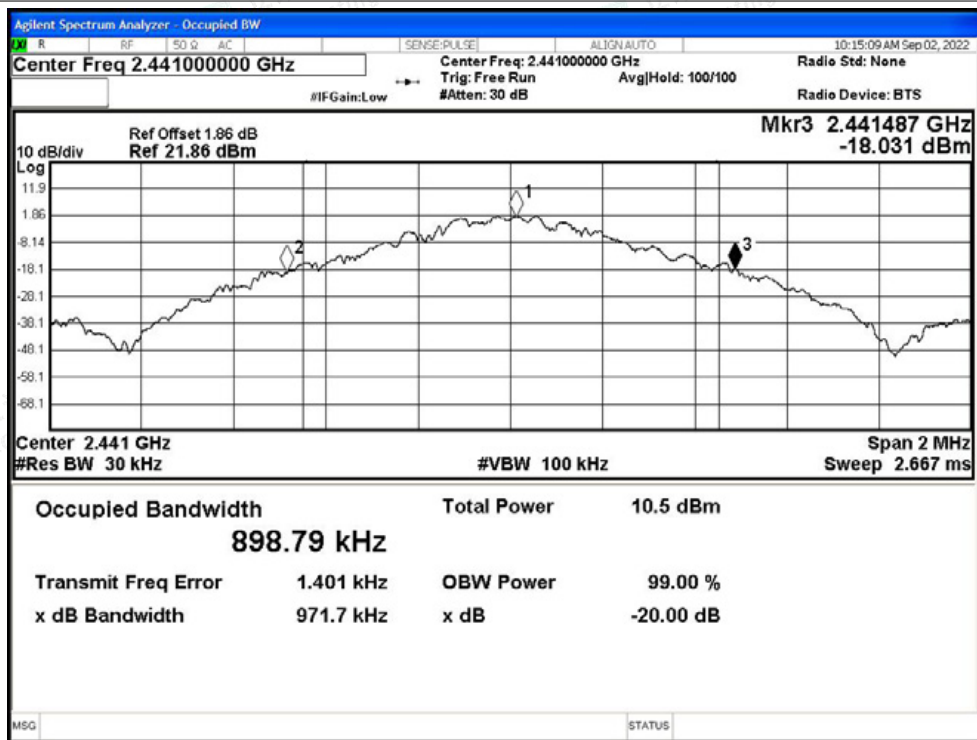


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

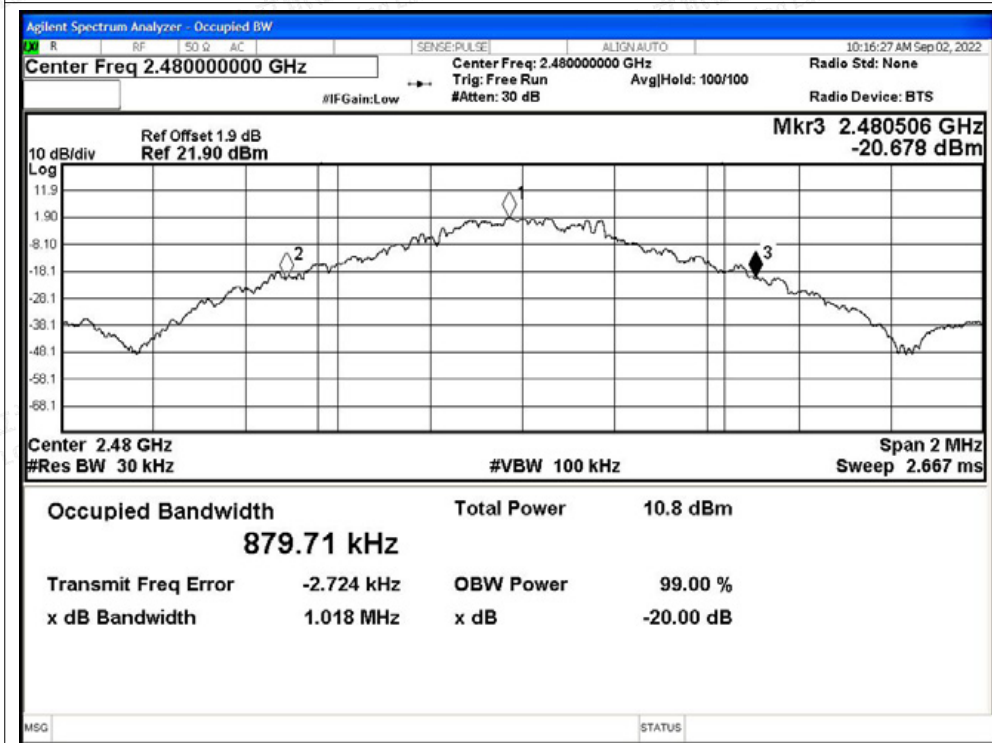


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

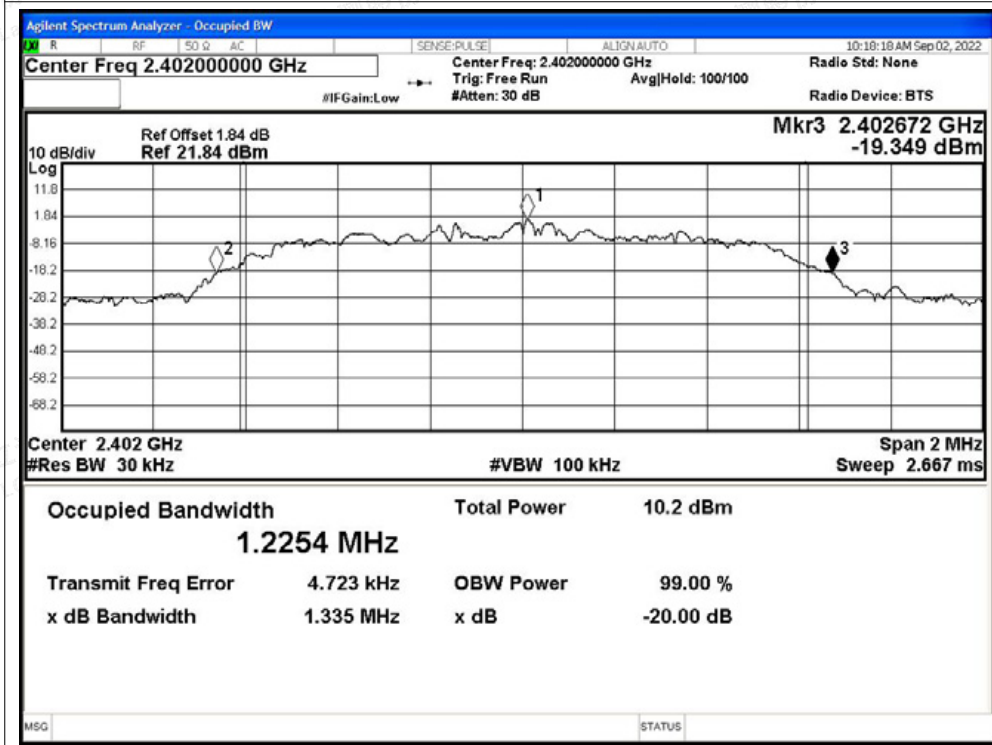




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

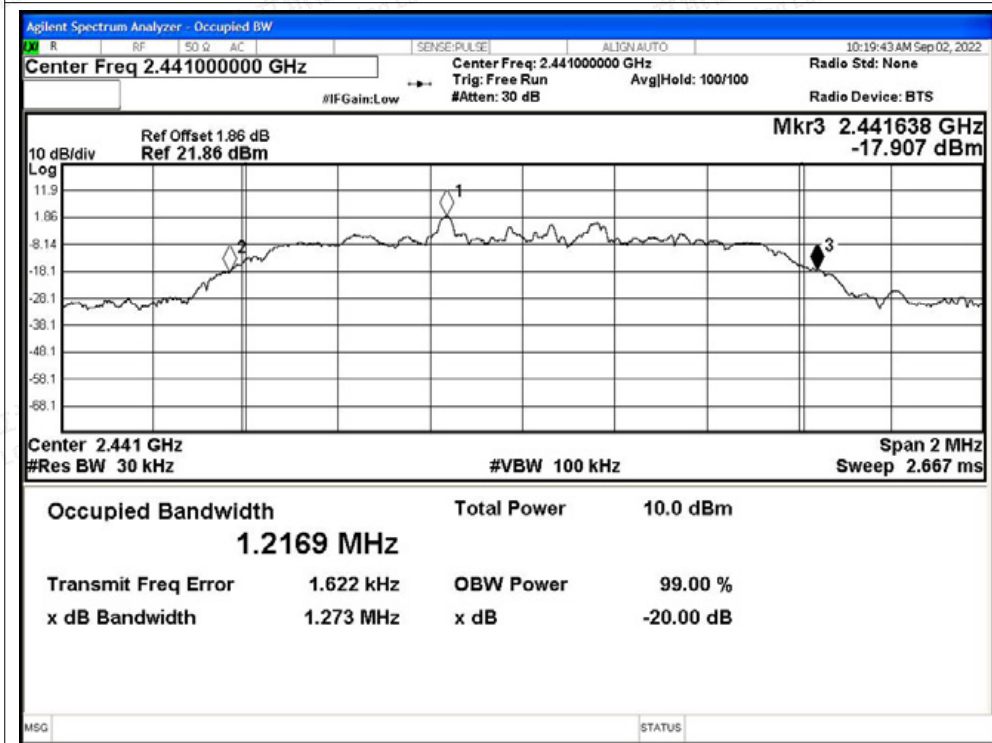


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

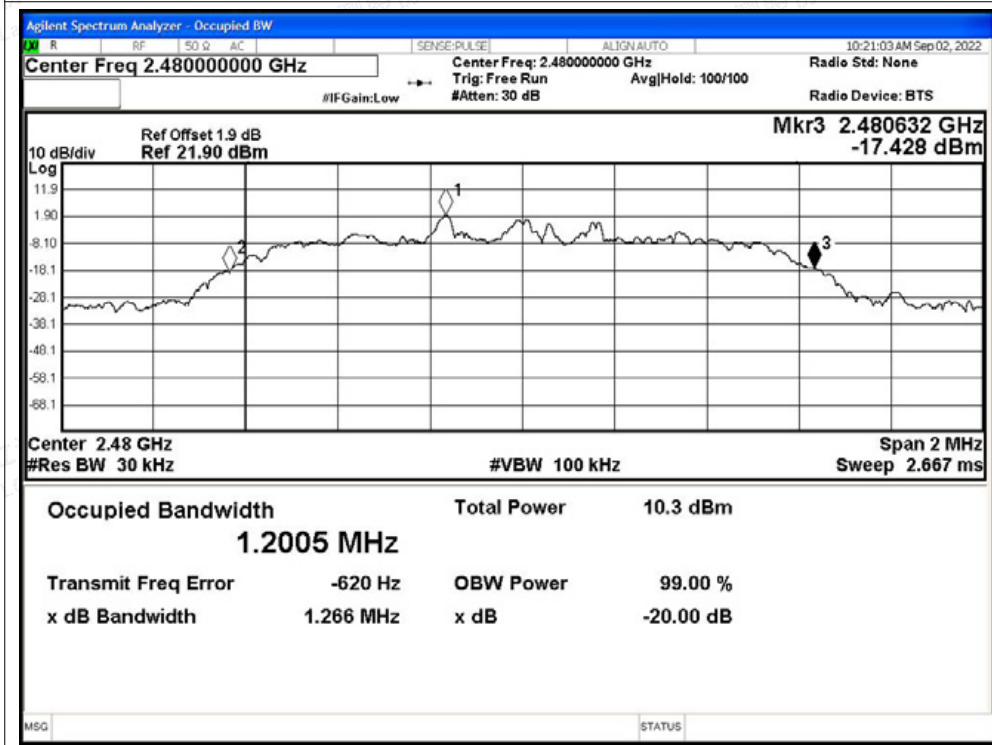




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

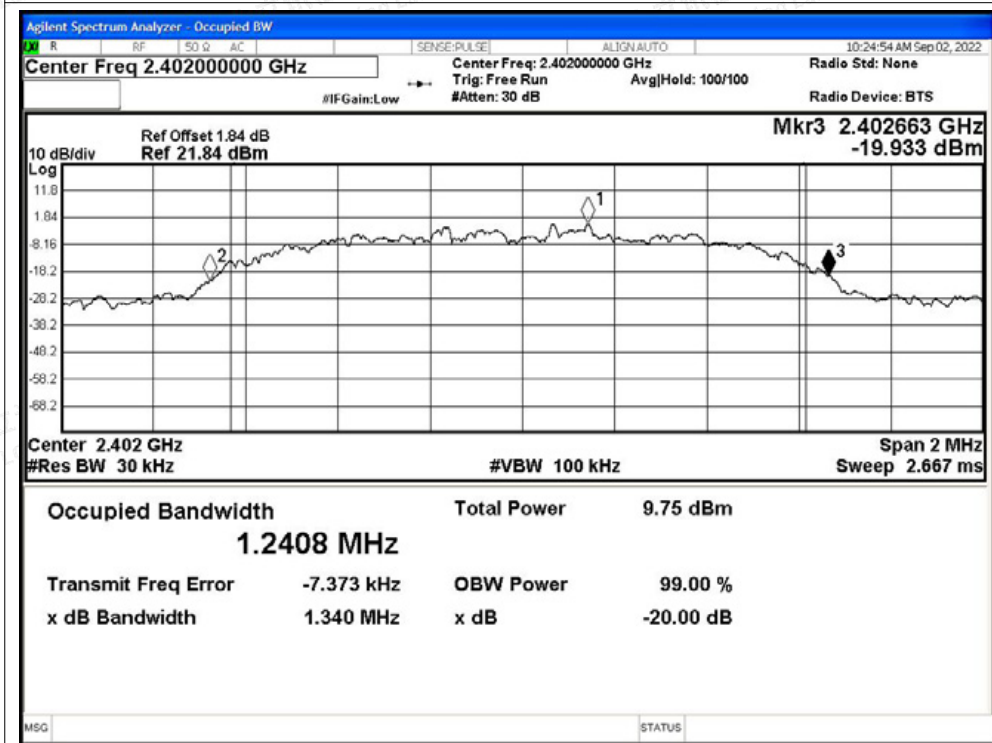


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

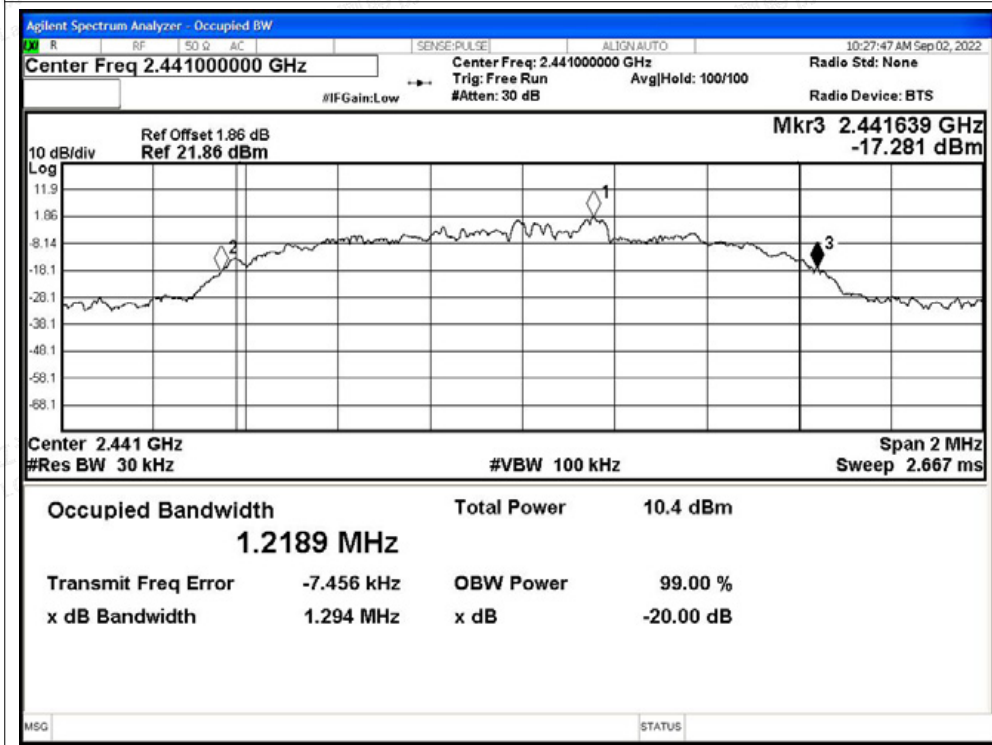




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

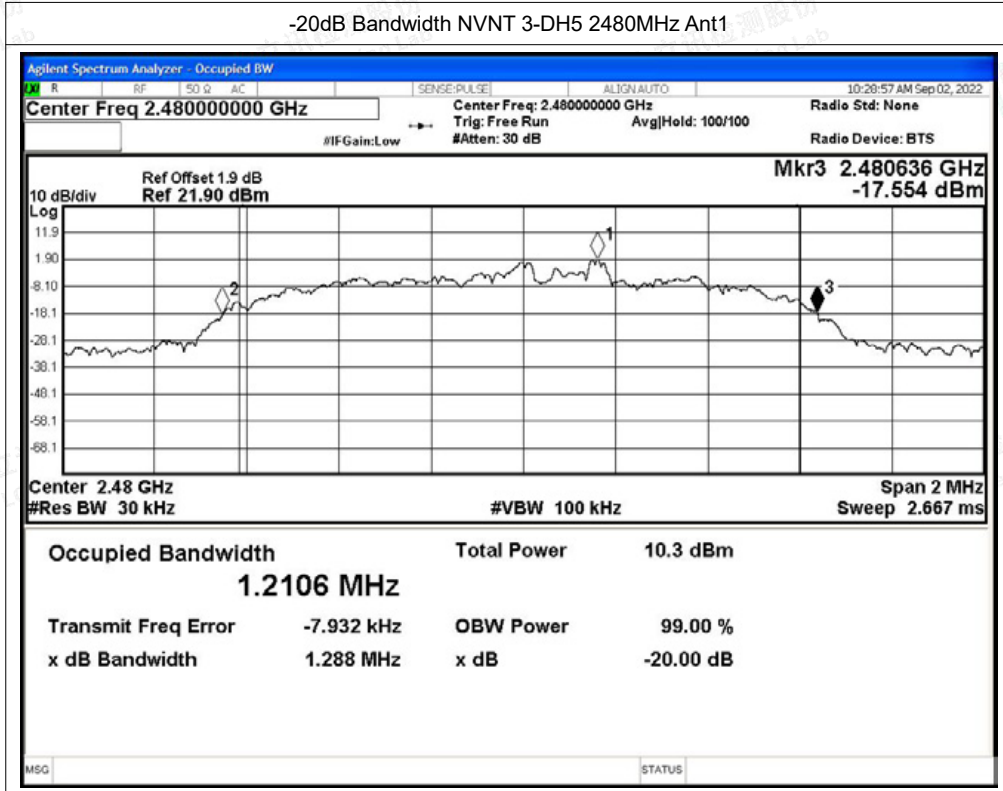


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Occupied Channel Bandwidth

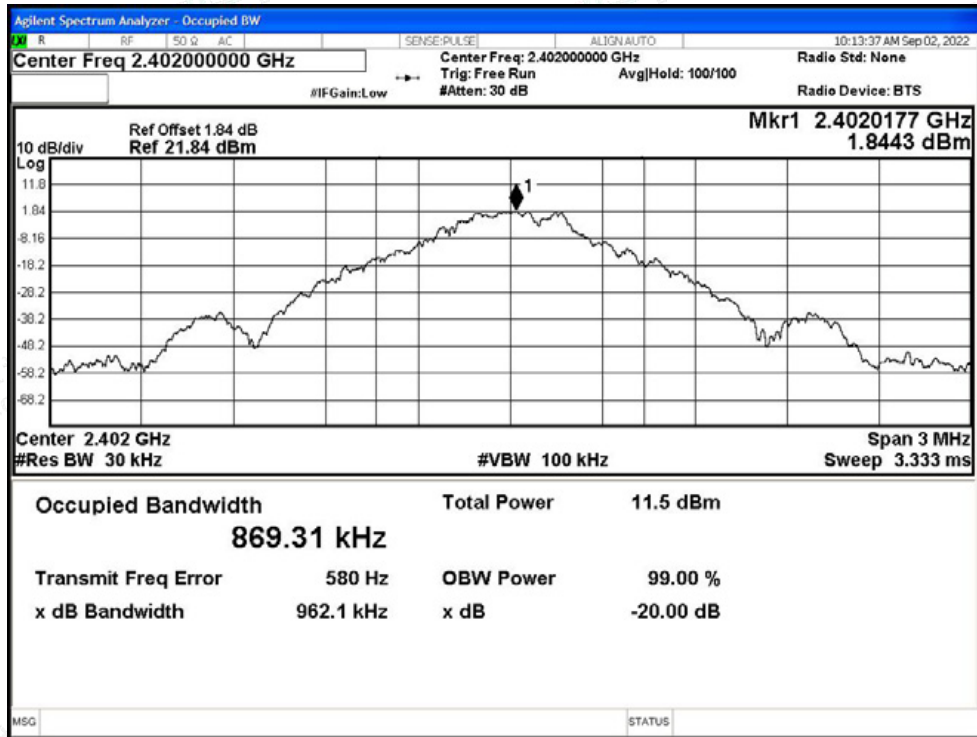
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|-------|-----------------|---------|---------------|
| NVNT | 1-DH5 | 2402 | Ant1 | 0.869 |
| NVNT | 1-DH5 | 2441 | Ant1 | 0.89 |
| NVNT | 1-DH5 | 2480 | Ant1 | 0.887 |
| NVNT | 2-DH5 | 2402 | Ant1 | 1.29 |
| NVNT | 2-DH5 | 2441 | Ant1 | 1.266 |
| NVNT | 2-DH5 | 2480 | Ant1 | 1.246 |
| NVNT | 3-DH5 | 2402 | Ant1 | 1.286 |
| NVNT | 3-DH5 | 2441 | Ant1 | 1.259 |
| NVNT | 3-DH5 | 2480 | Ant1 | 1.243 |



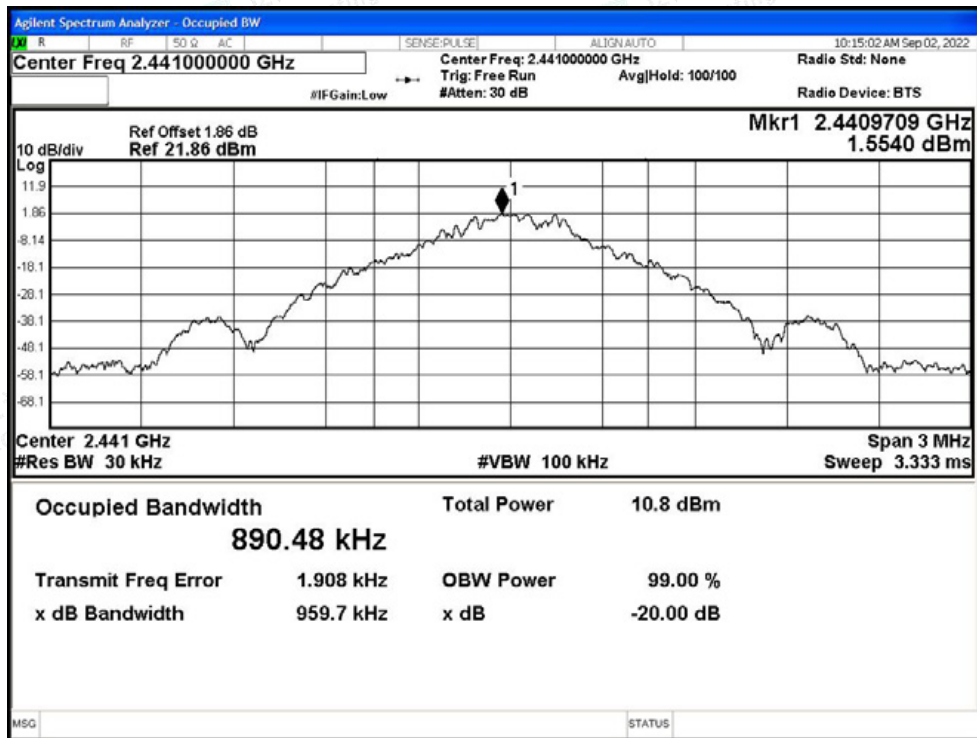


Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



OBW NVNT 1-DH5 2441MHz Ant1

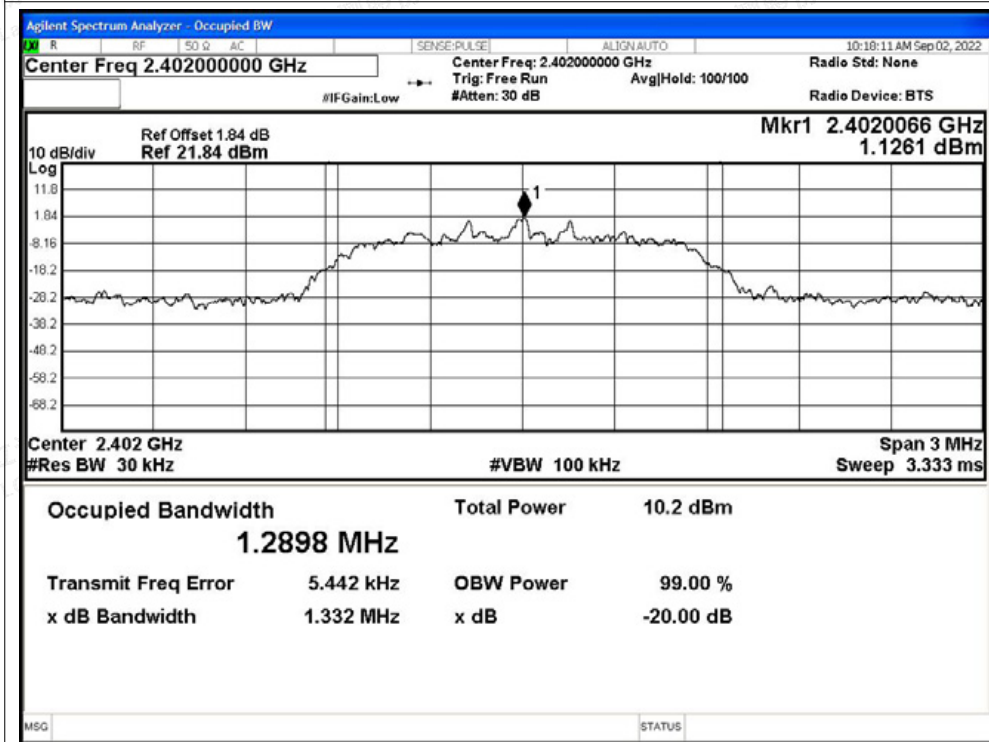




OBW NVNT 1-DH5 2480MHz Ant1

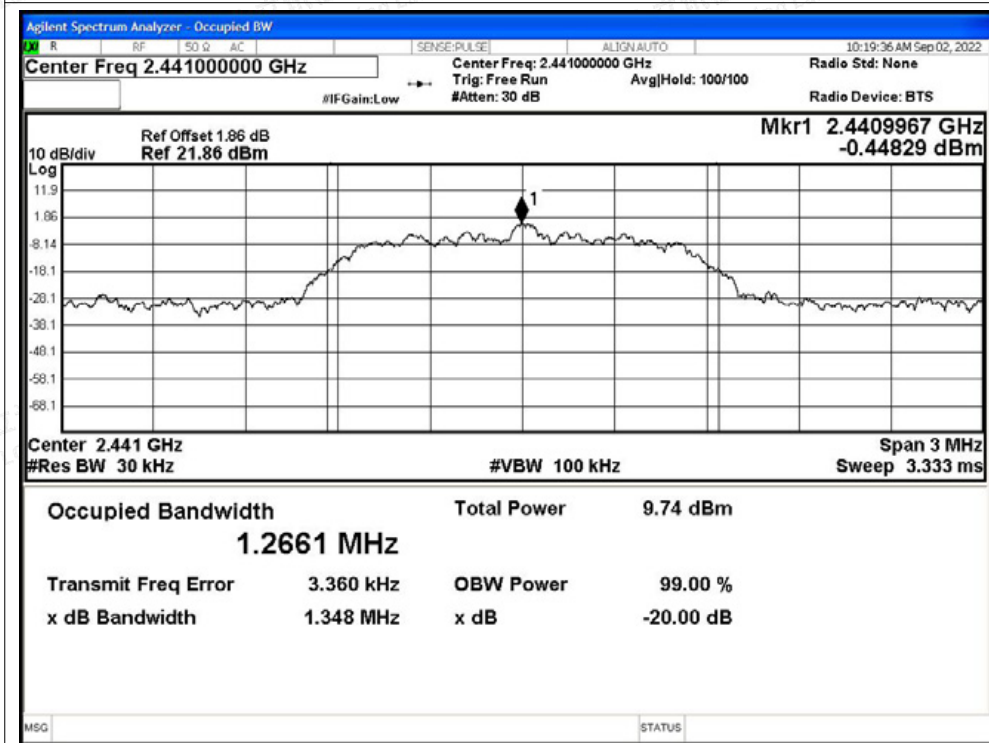


OBW NVNT 2-DH5 2402MHz Ant1

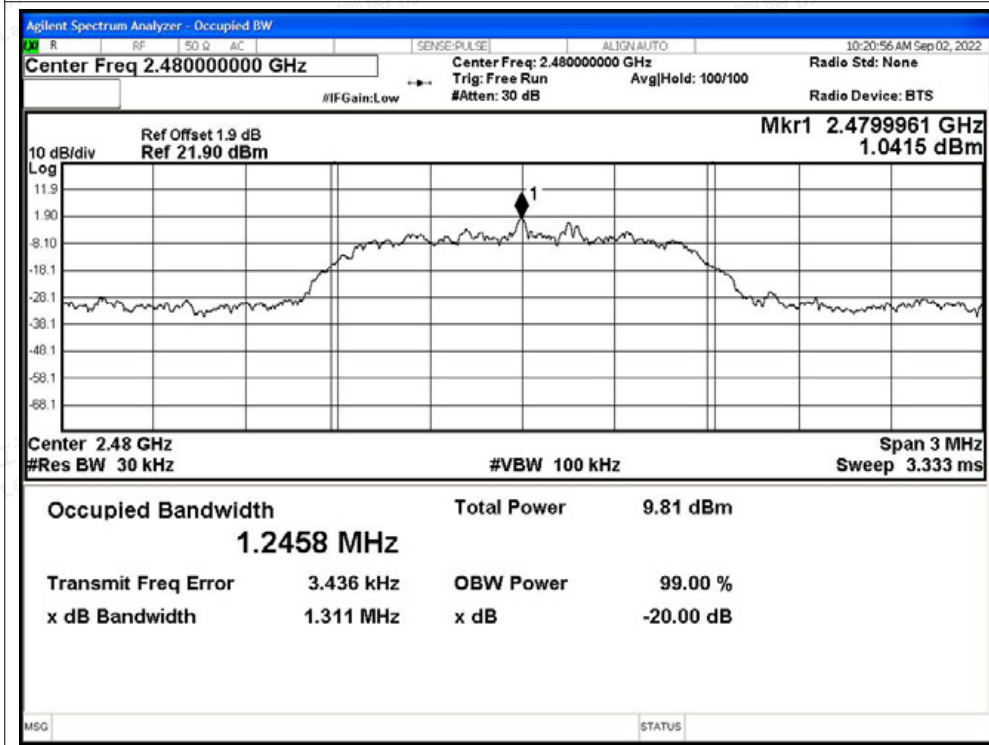




OBW NVNT 2-DH5 2441MHz Ant1

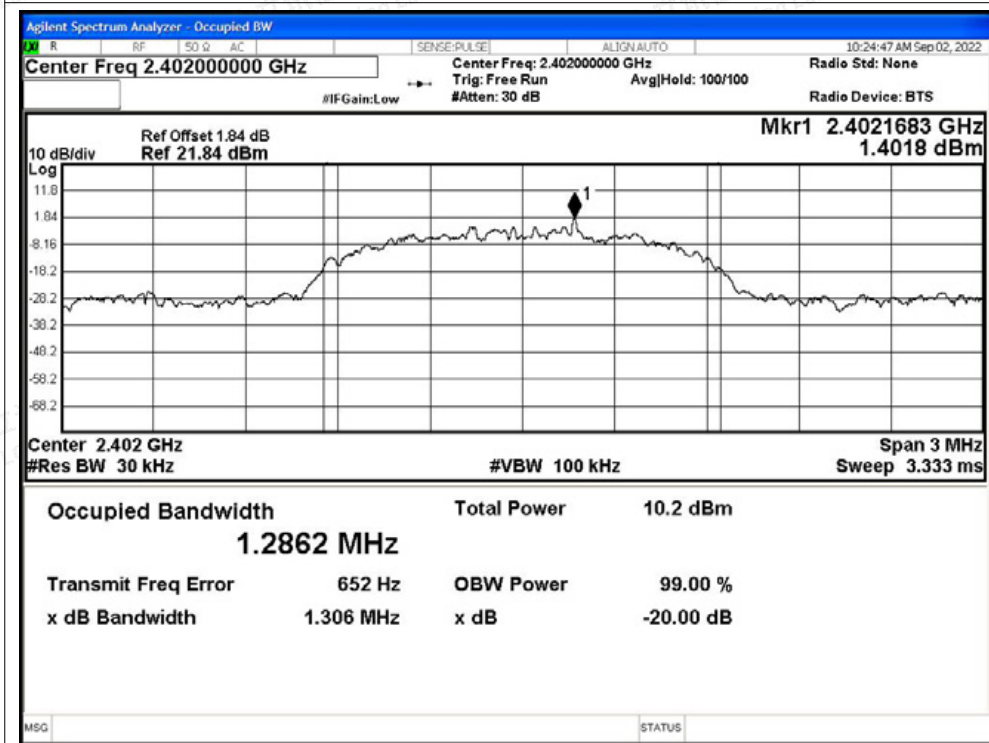


OBW NVNT 2-DH5 2480MHz Ant1

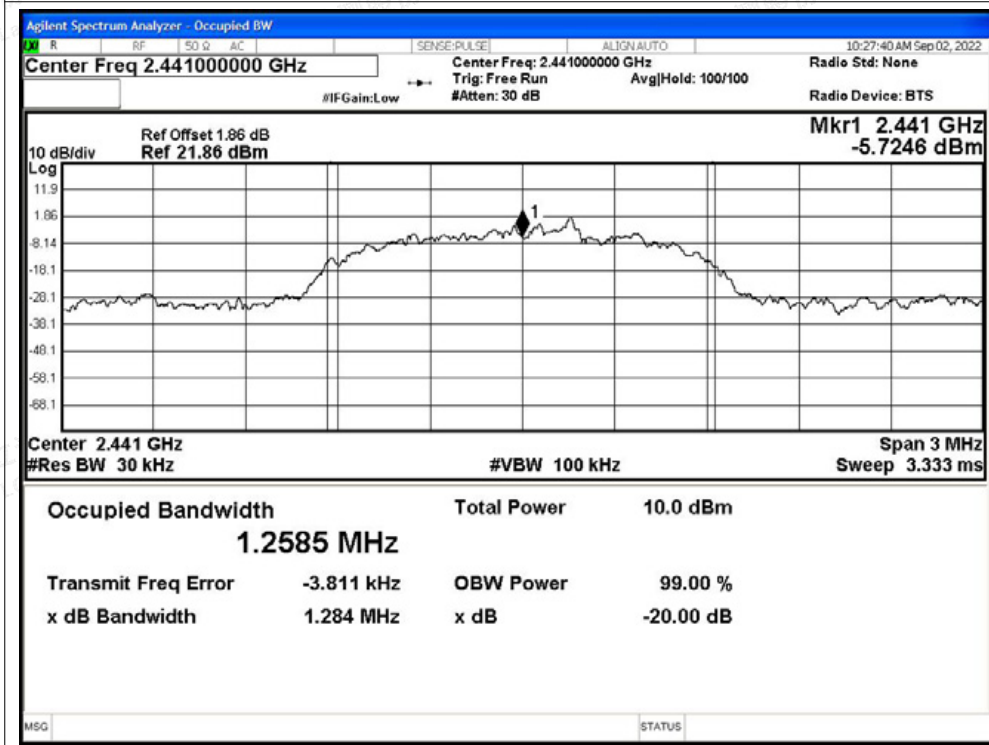




OBW NVNT 3-DH5 2402MHz Ant1

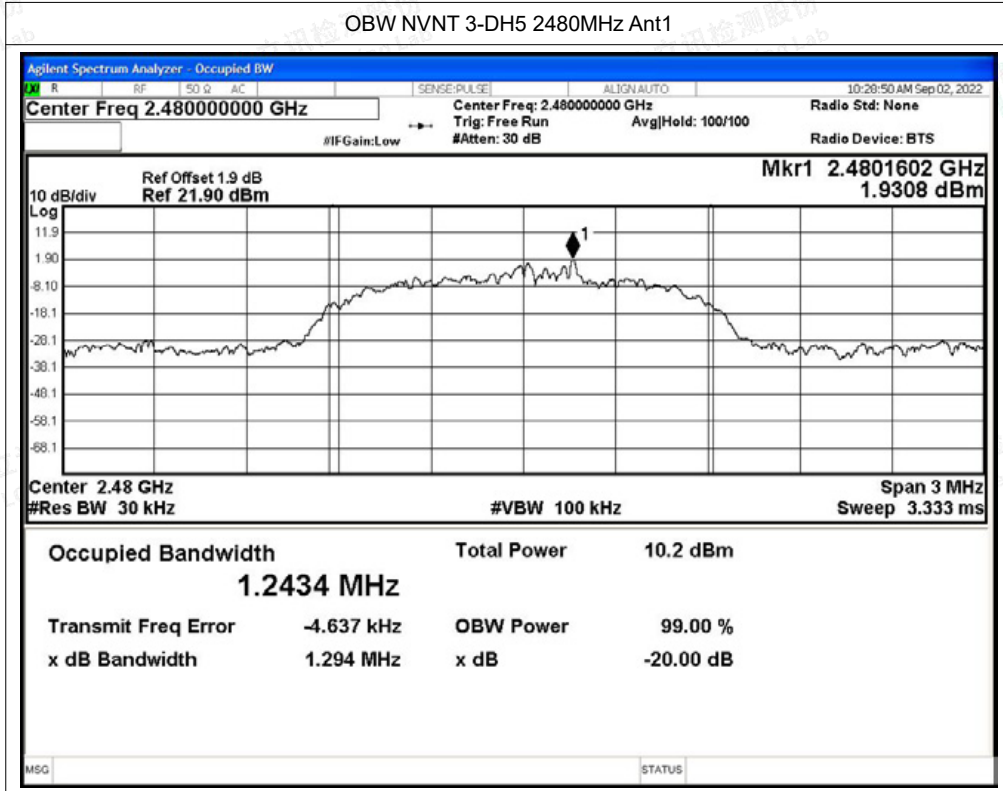


OBW NVNT 3-DH5 2441MHz Ant1





OBW NVNT 3-DH5 2480MHz Ant1





A.3 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 1.72 | 0 | 1.72 | 21 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | 1.2 | 0 | 1.2 | 21 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | 0.61 | 0 | 0.61 | 21 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 1.72 | 0 | 1.72 | 21 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | 1.2 | 0 | 1.2 | 21 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | 0.57 | 0 | 0.57 | 21 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 1.75 | 0 | 1.75 | 21 | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | 1.23 | 0 | 1.23 | 21 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | 0.65 | 0 | 0.65 | 21 | Pass |

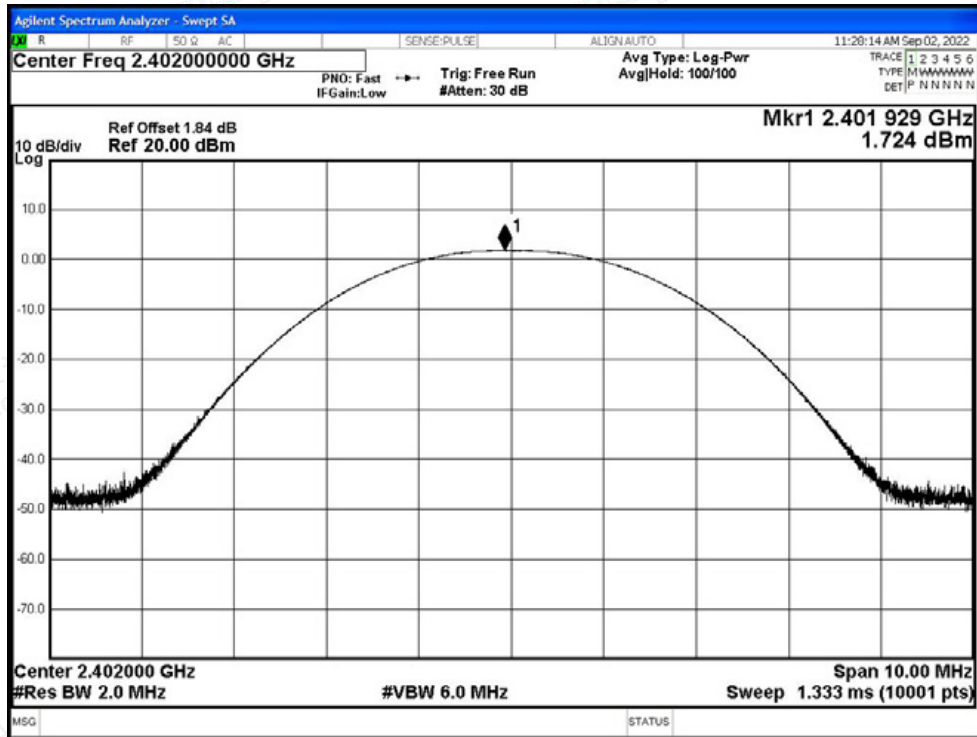


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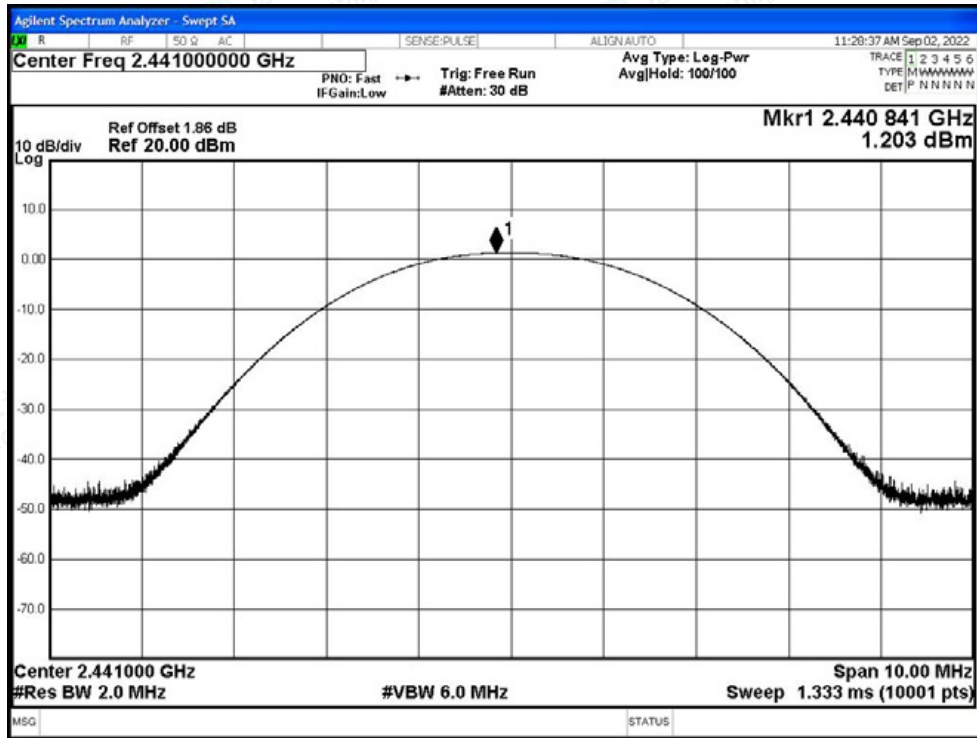


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

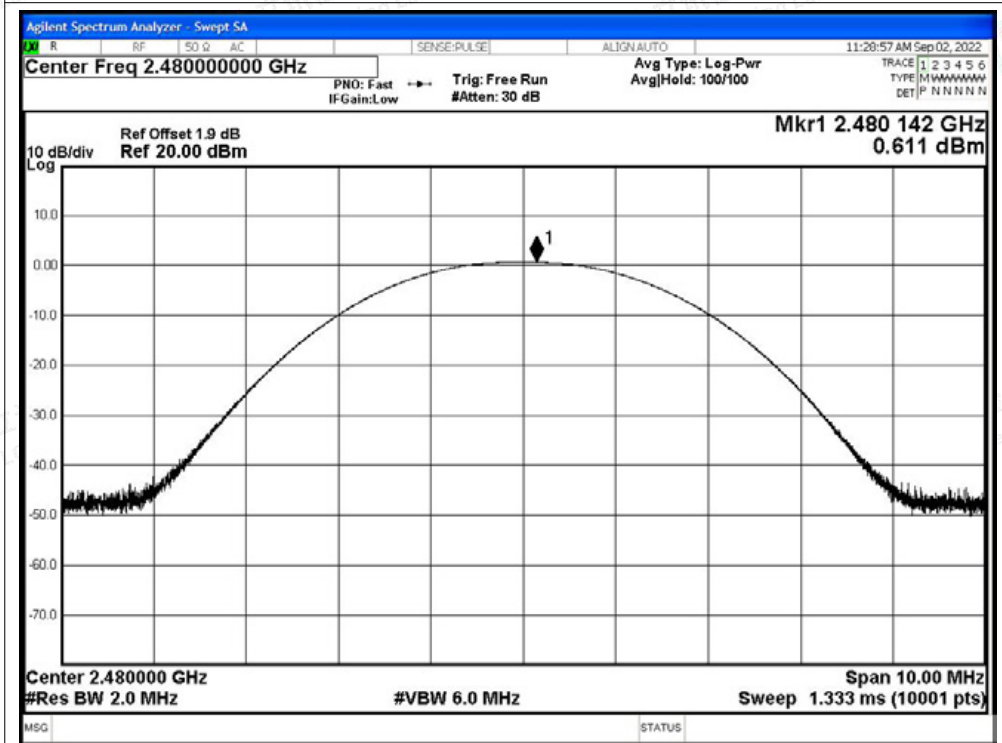


Power NVNT 1-DH5 2441MHz Ant1

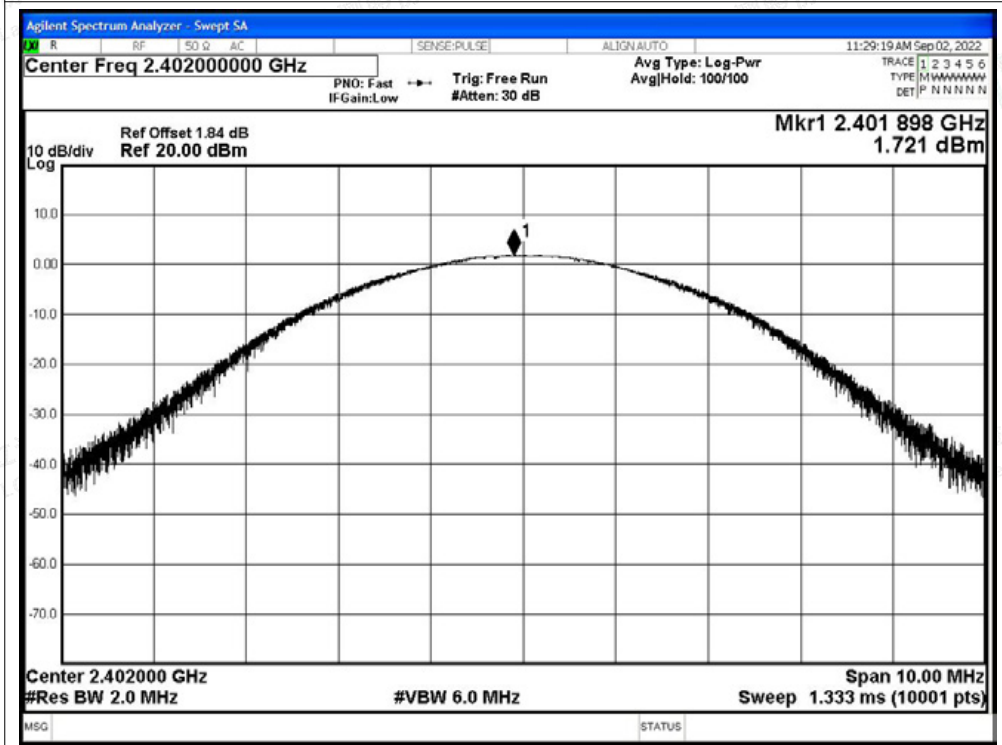




Power NVNT 1-DH5 2480MHz Ant1

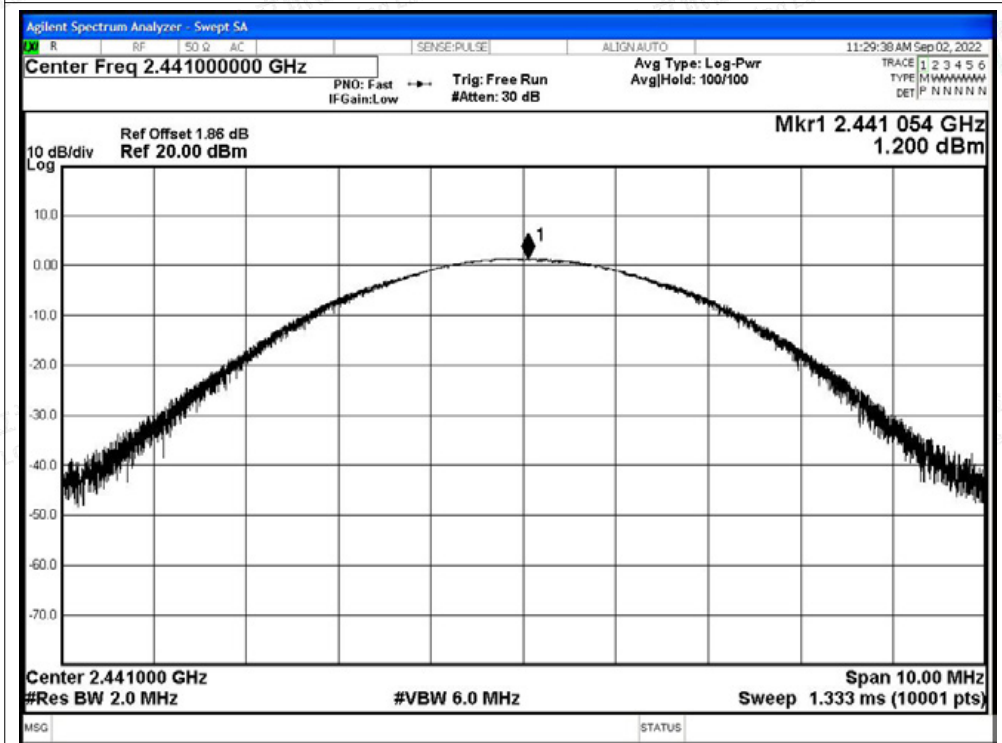


Power NVNT 2-DH5 2402MHz Ant1

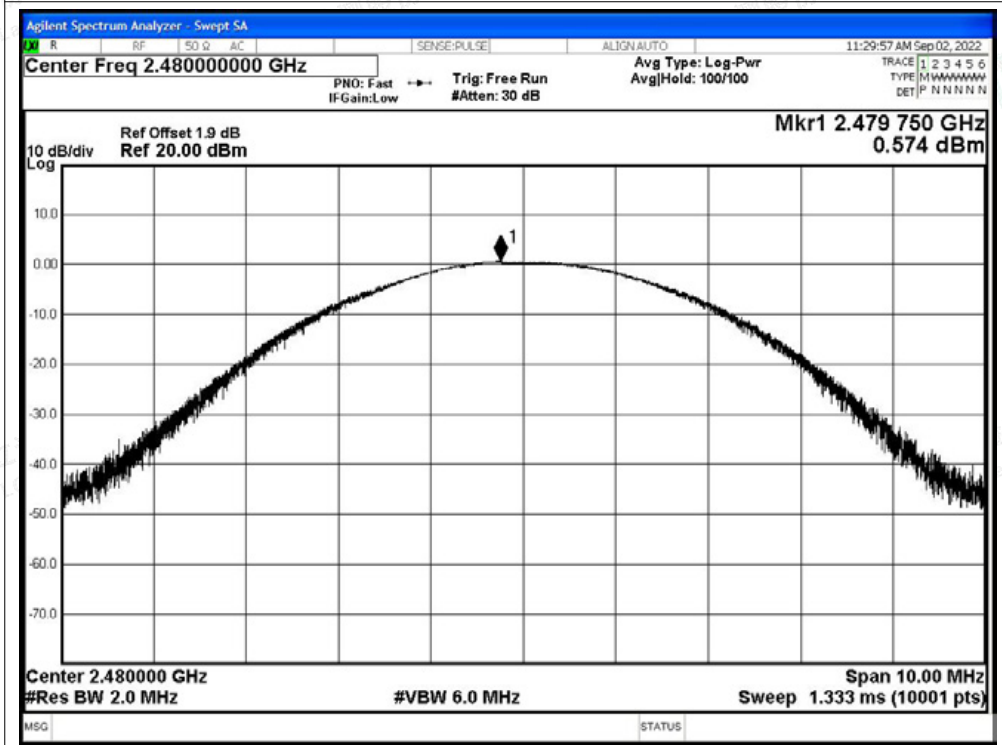




Power NVNT 2-DH5 2441MHz Ant1

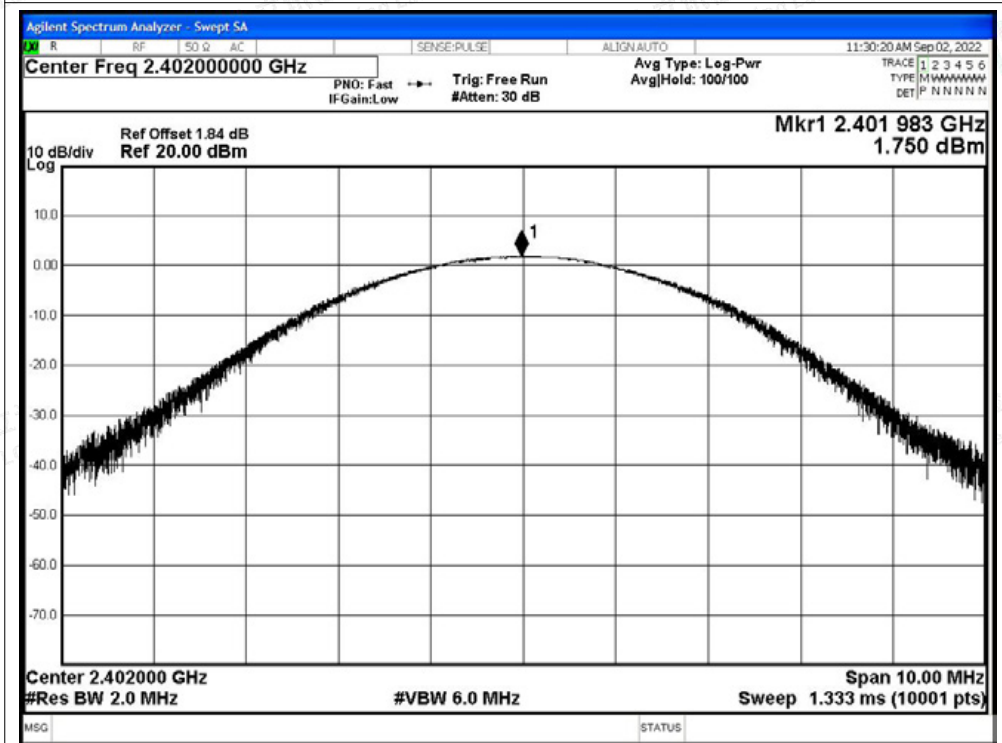


Power NVNT 2-DH5 2480MHz Ant1

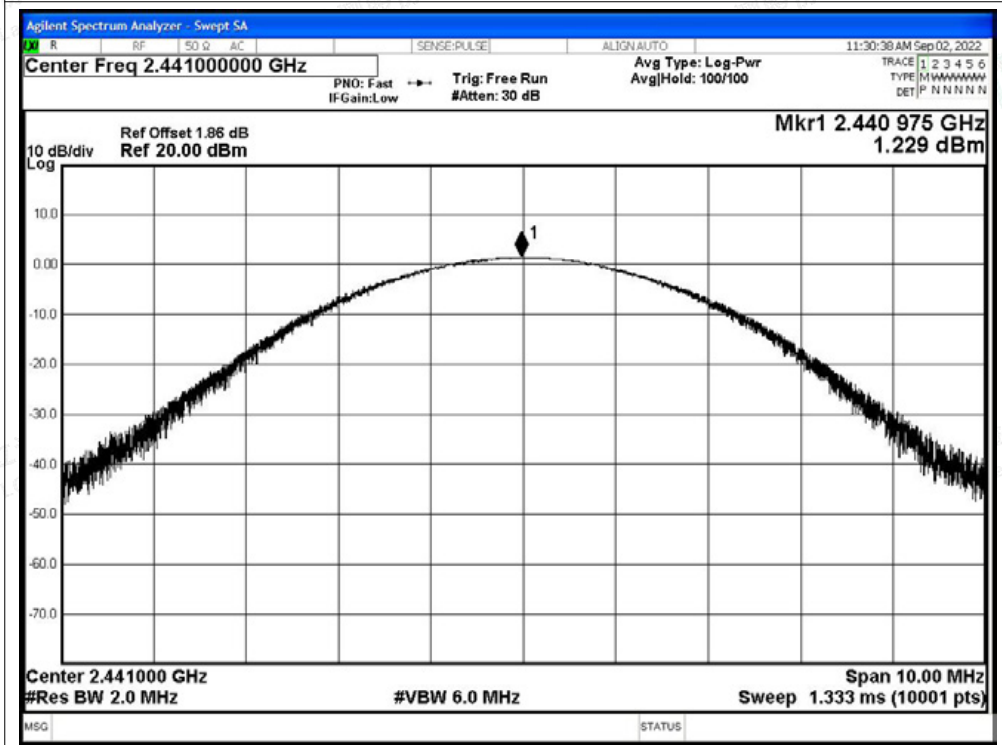




Power NVNT 3-DH5 2402MHz Ant1

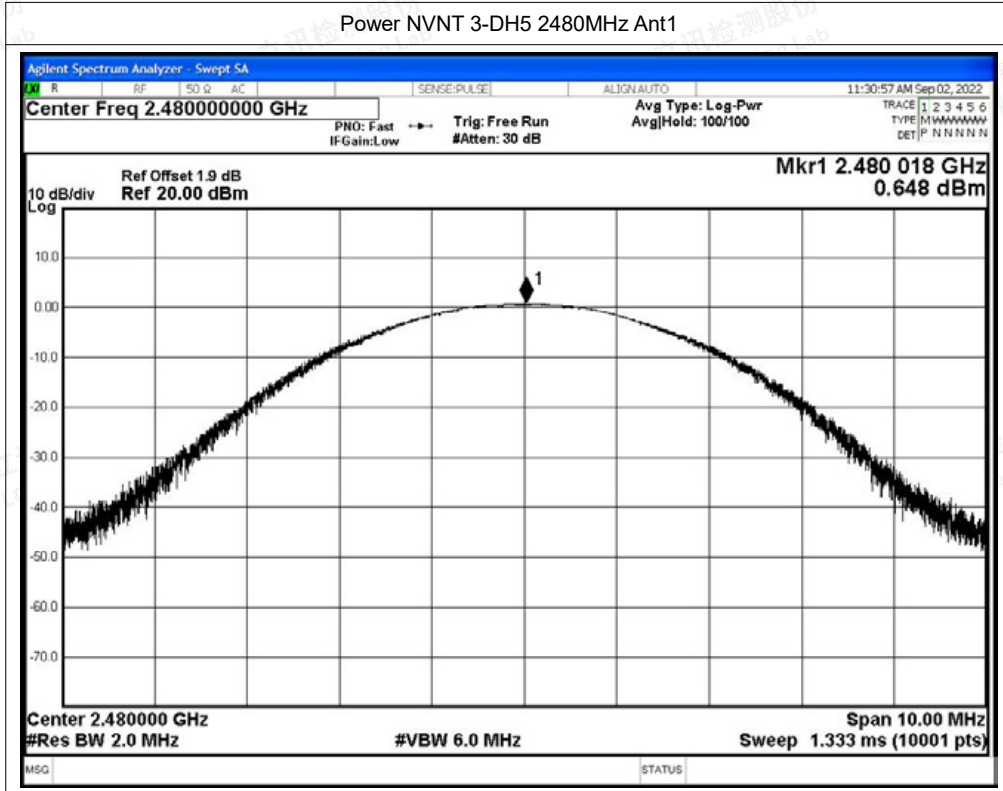


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.4 Carrier Frequencies Separation

| Condition | Mode | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT | 1-DH5 | Ant1 | 2402.008 | 2403.016 | 1.008 | 0.649 | Pass |
| NVNT | 2-DH5 | Ant1 | 2401.846 | 2402.848 | 1.002 | 0.89 | Pass |
| NVNT | 3-DH5 | Ant1 | 2402.018 | 2403.142 | 1.124 | 0.893 | Pass |

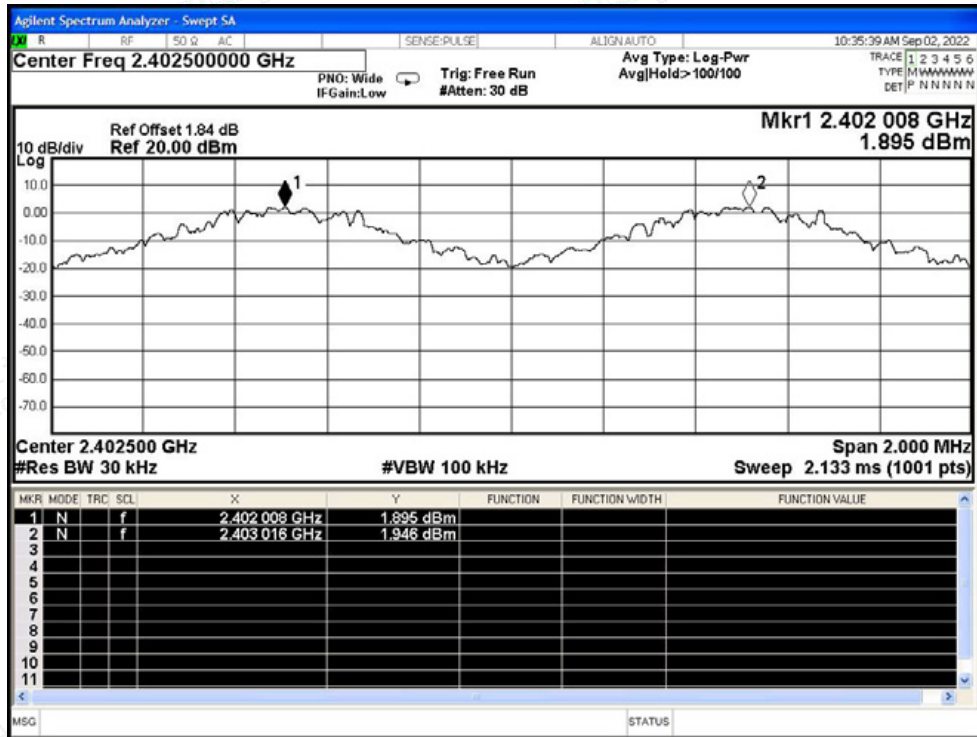


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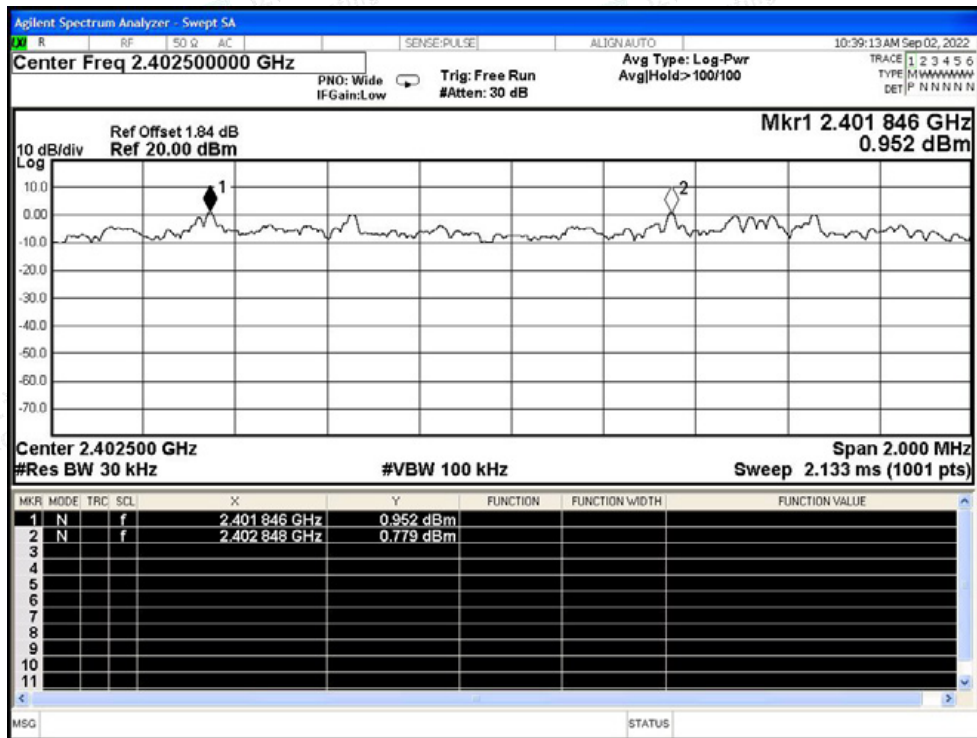


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

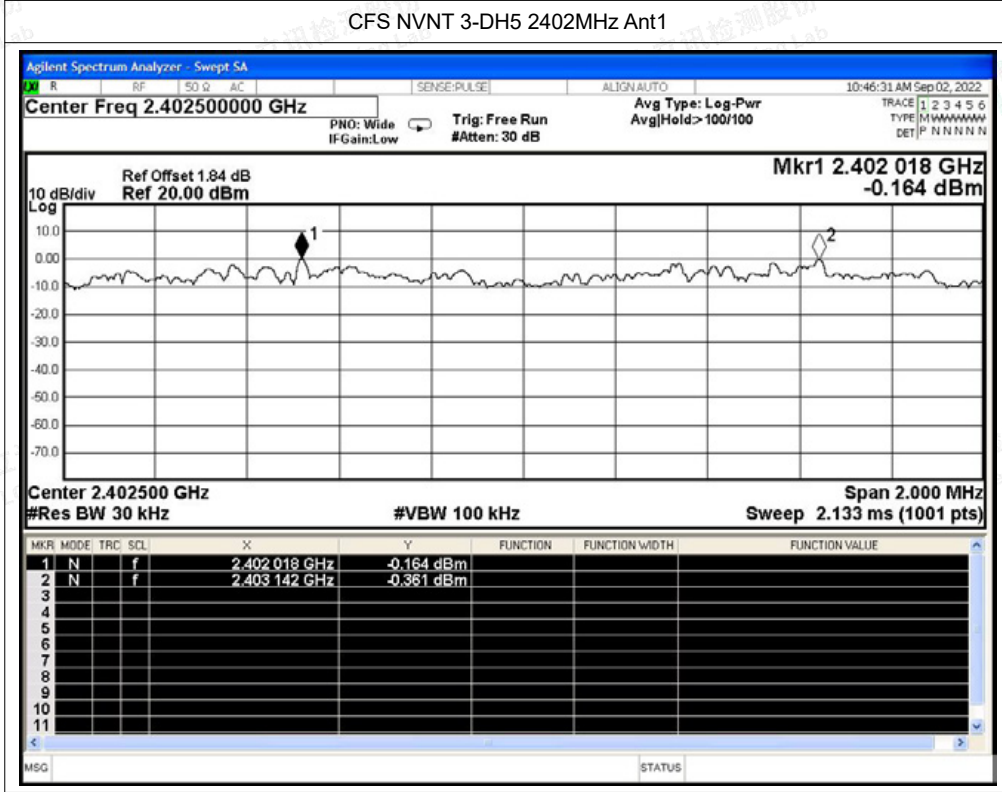


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-DH5 2402MHz Ant1





A.6 Number of Hopping Channel

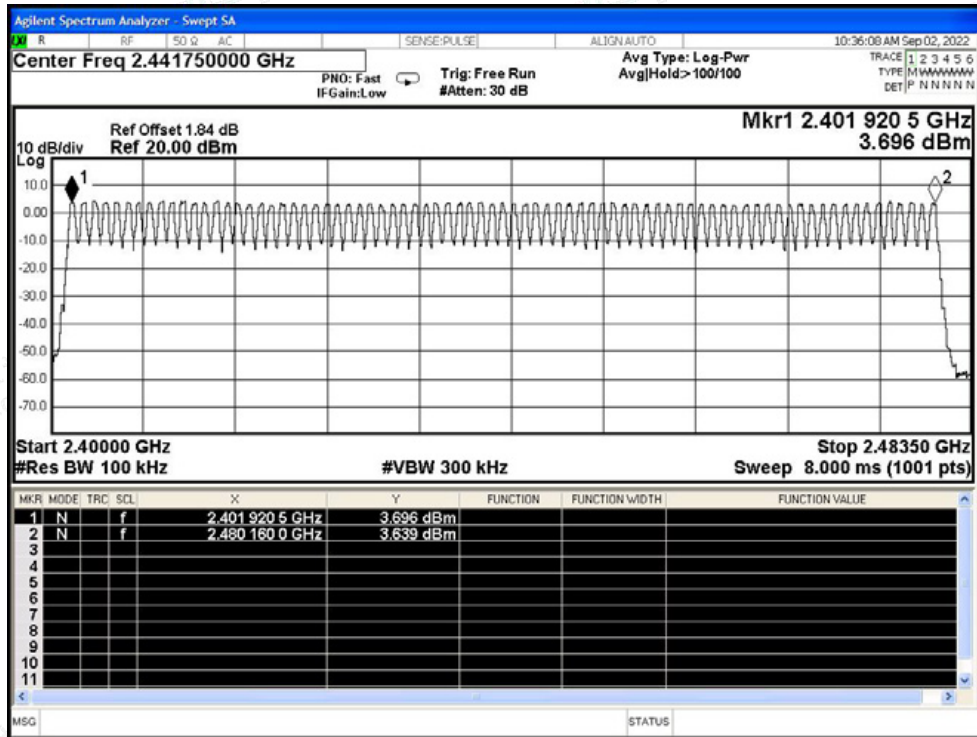
| Condition | Mode | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT | 1-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 2-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 3-DH5 | Ant1 | 79 | 15 | Pass |



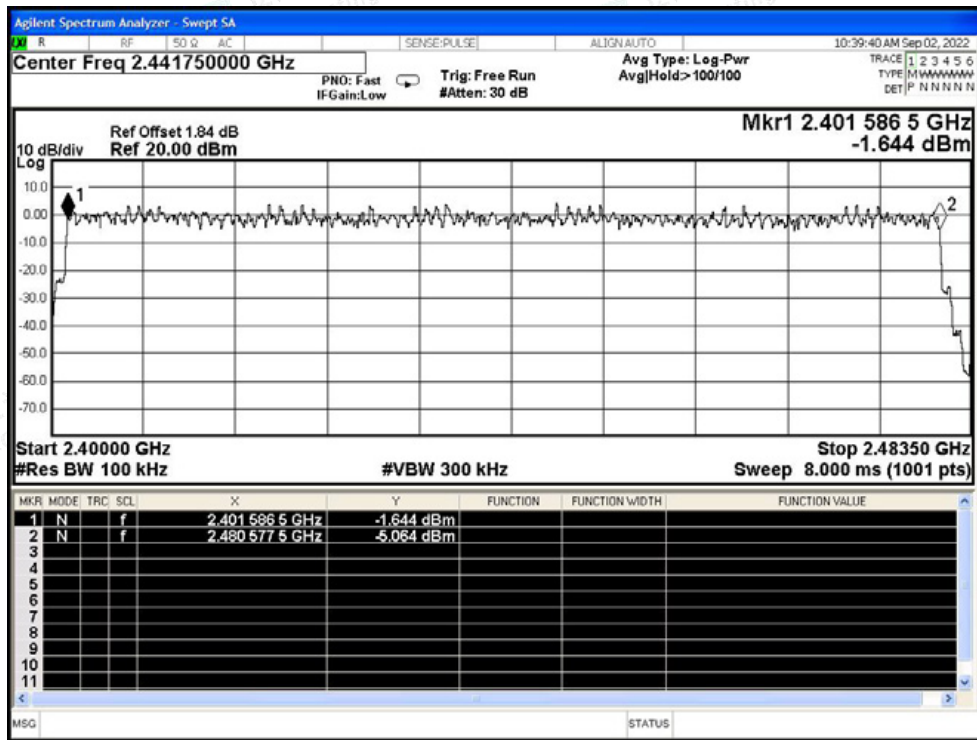


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

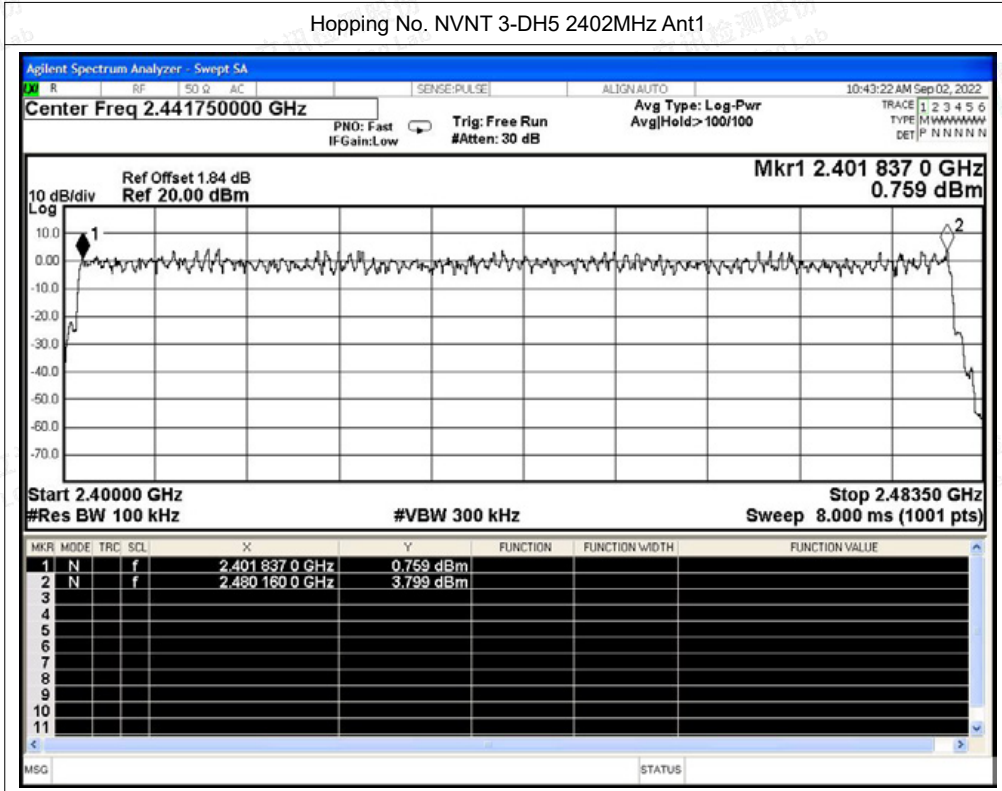


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.5 Dwell Time

| Condition | Mode | Frequency (MHz) | Antenna | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-----------------------|-------------|------------------|------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 2.88 | 308.16 | 107 | 31600 | 400 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 2.882 | 308.374 | 107 | 31600 | 400 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 2.883 | 308.481 | 107 | 31600 | 400 | Pass |

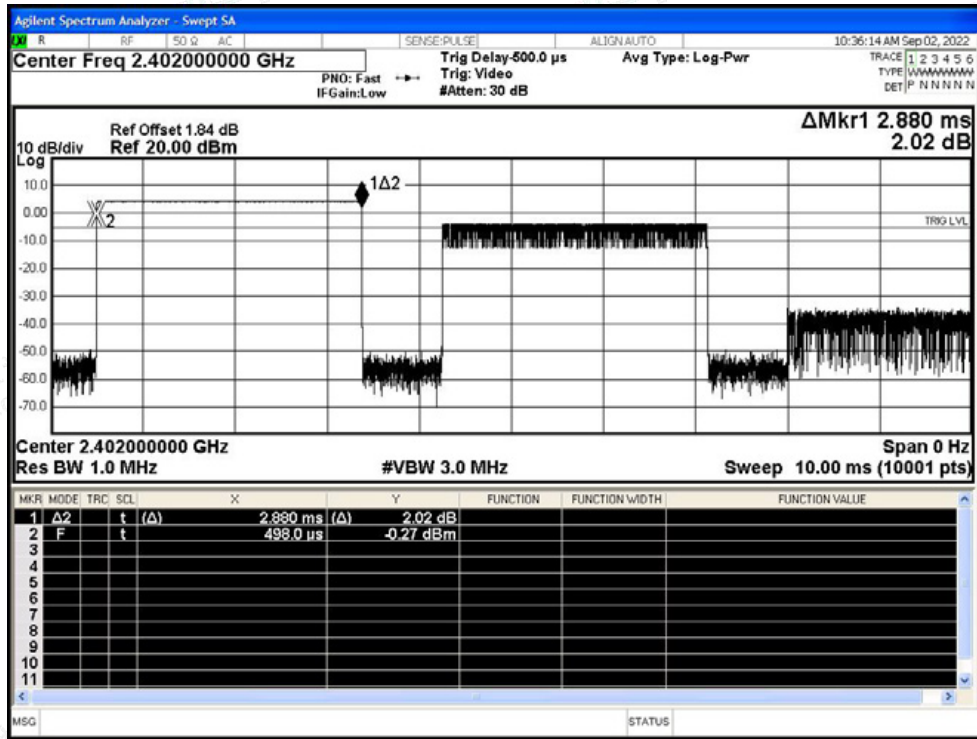


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 Scan code to check authenticity

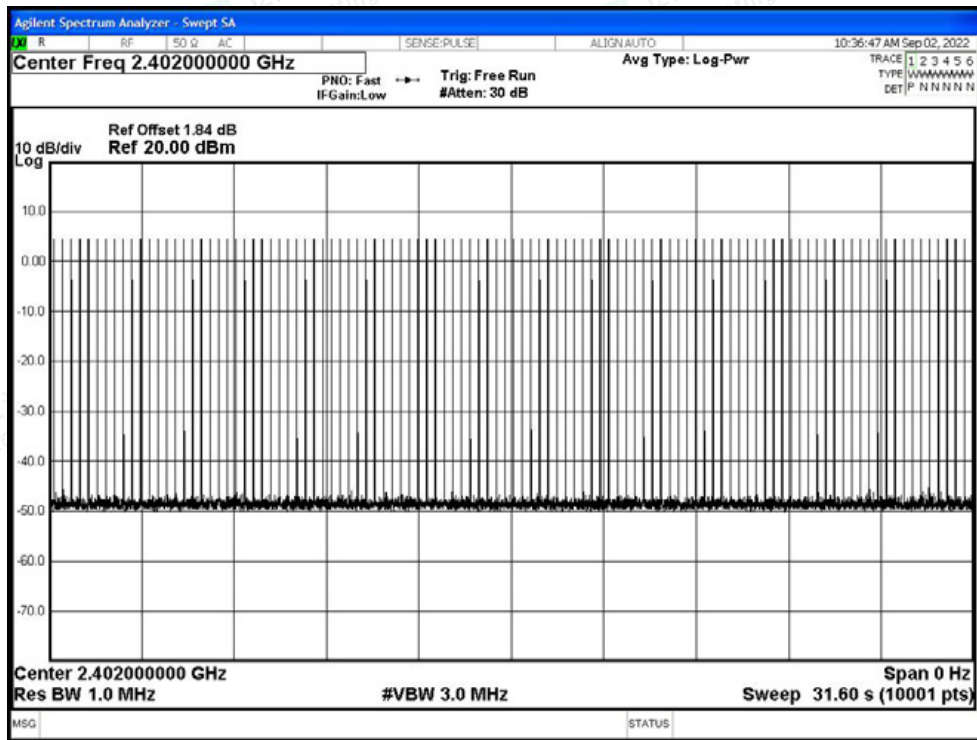


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

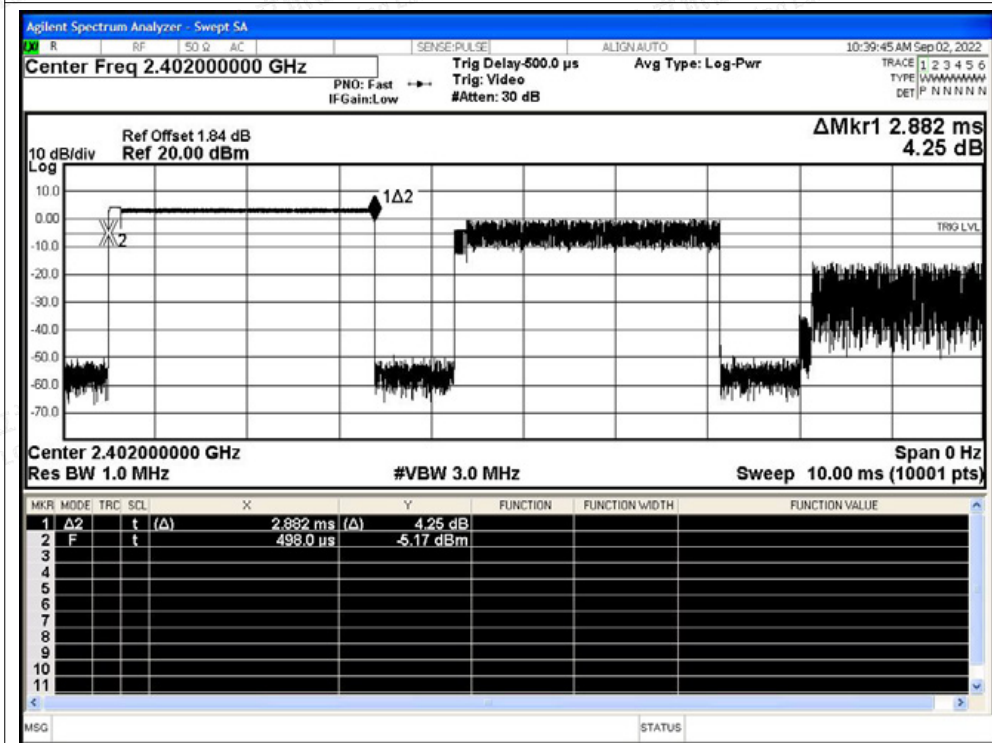


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

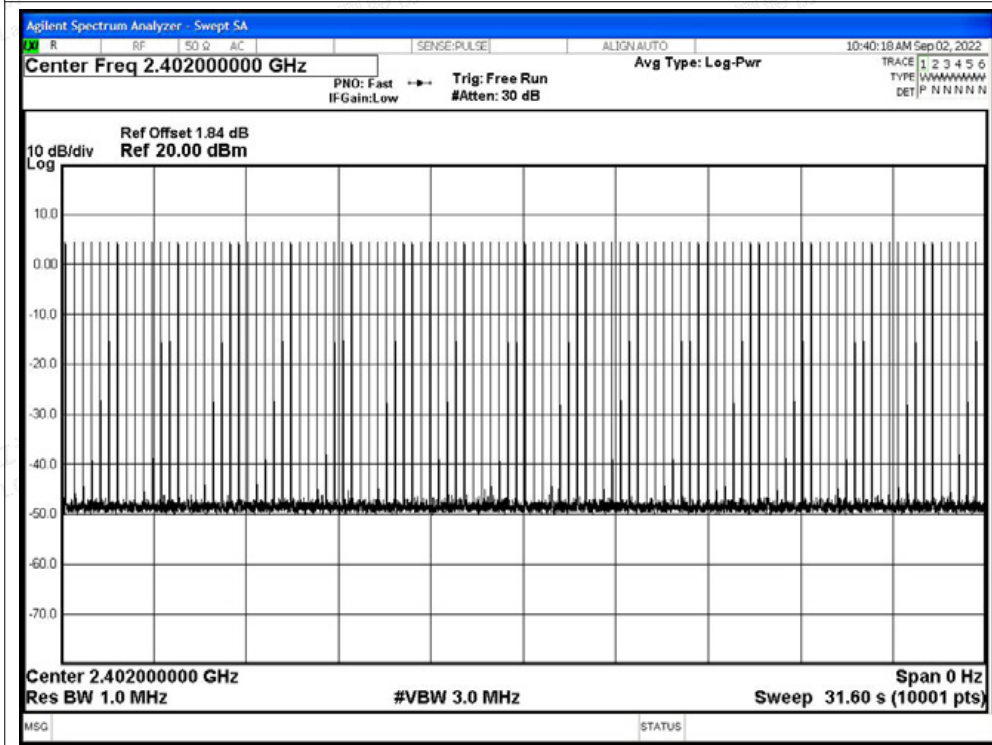




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

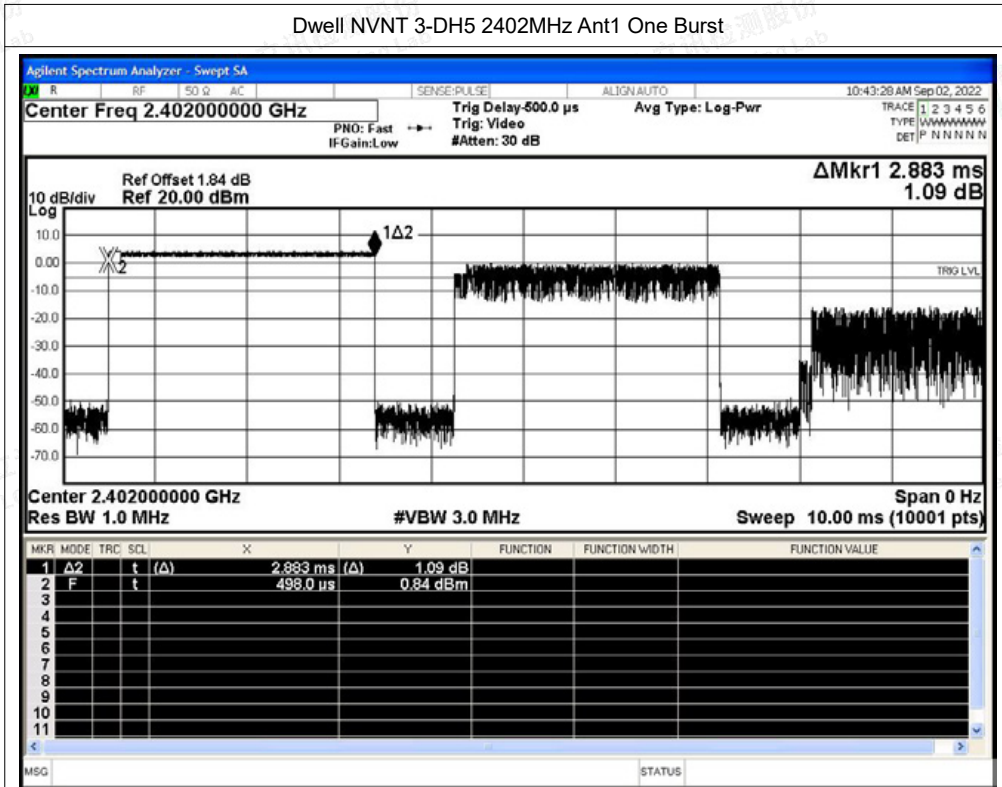


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

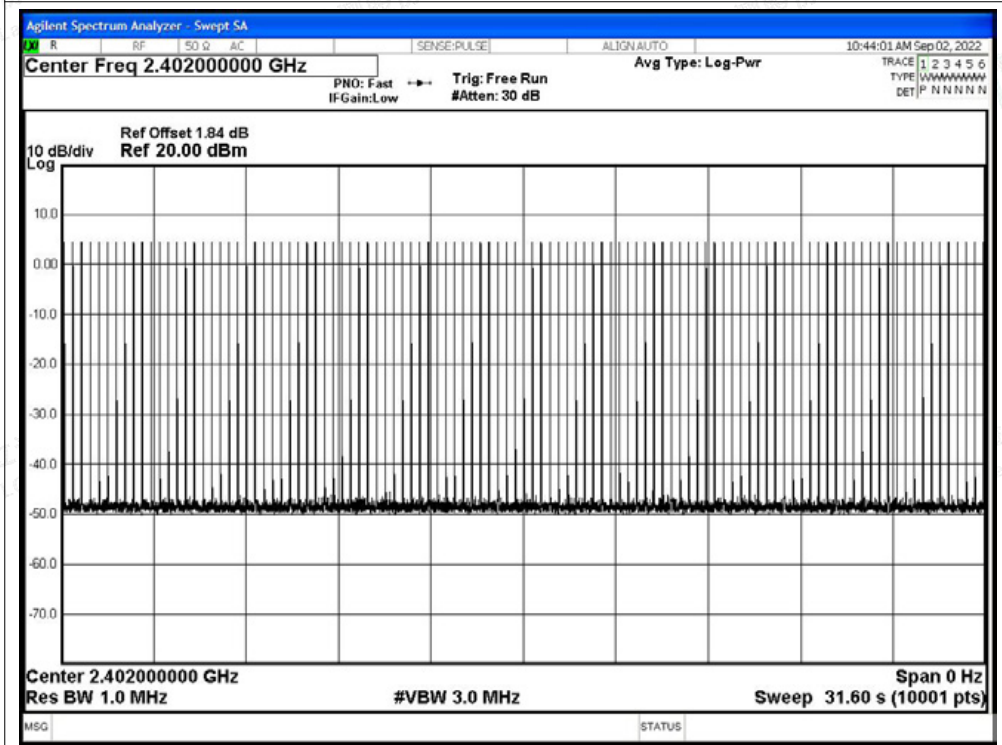




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.7 Band Edge

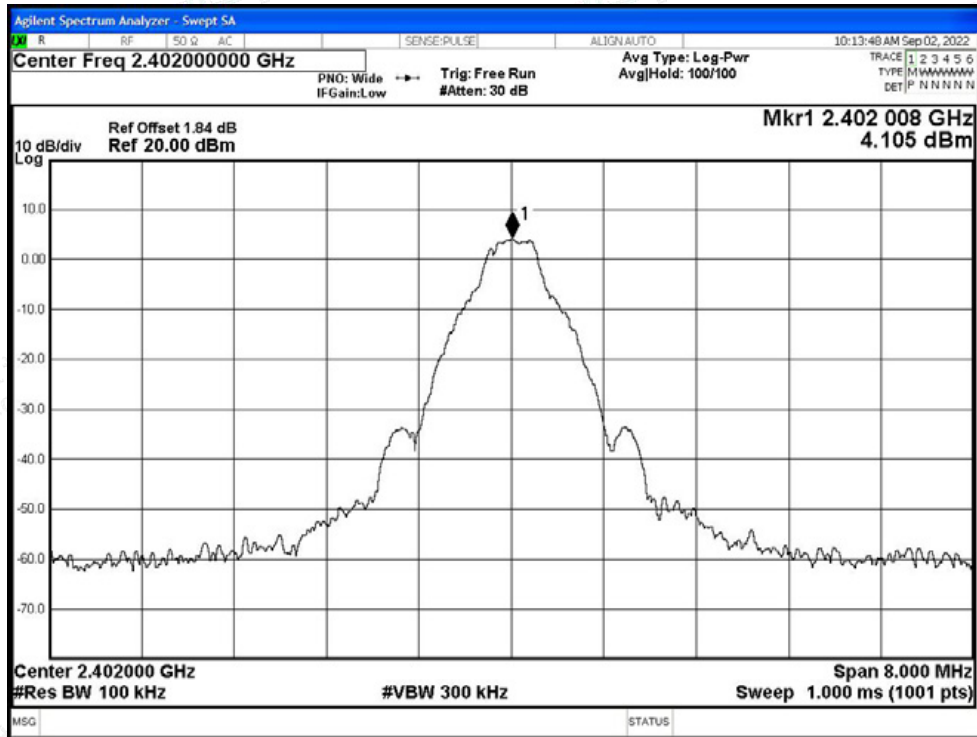
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | -60.13 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | -61.87 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | -37.18 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | -58.06 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | -36.24 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | -57.13 | -20 | Pass |



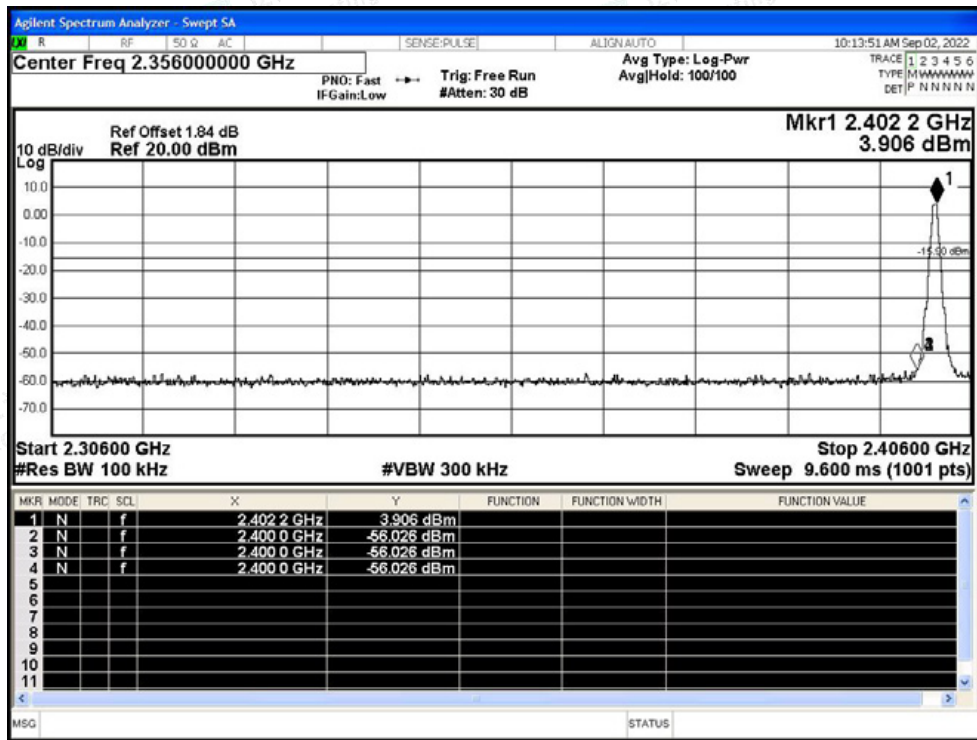


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

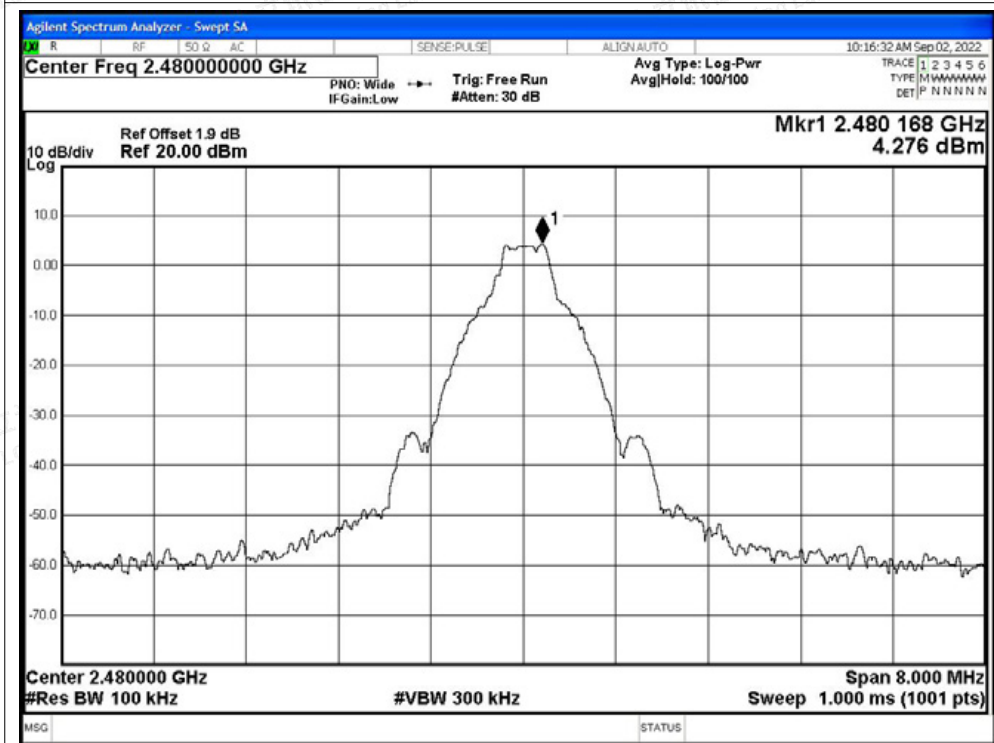


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

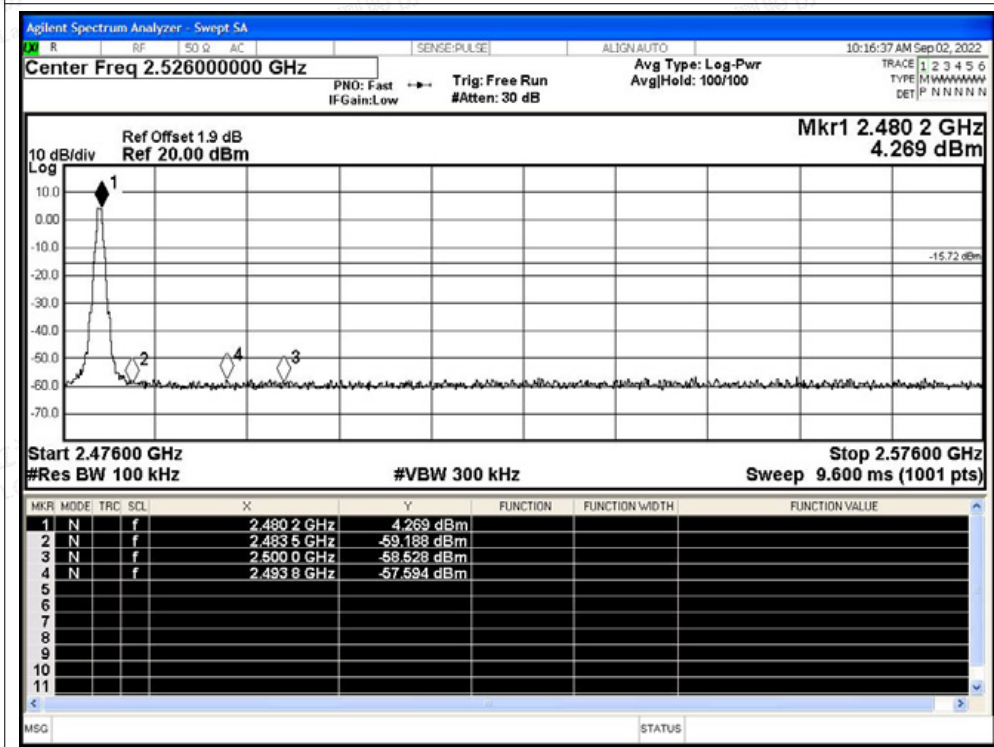




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

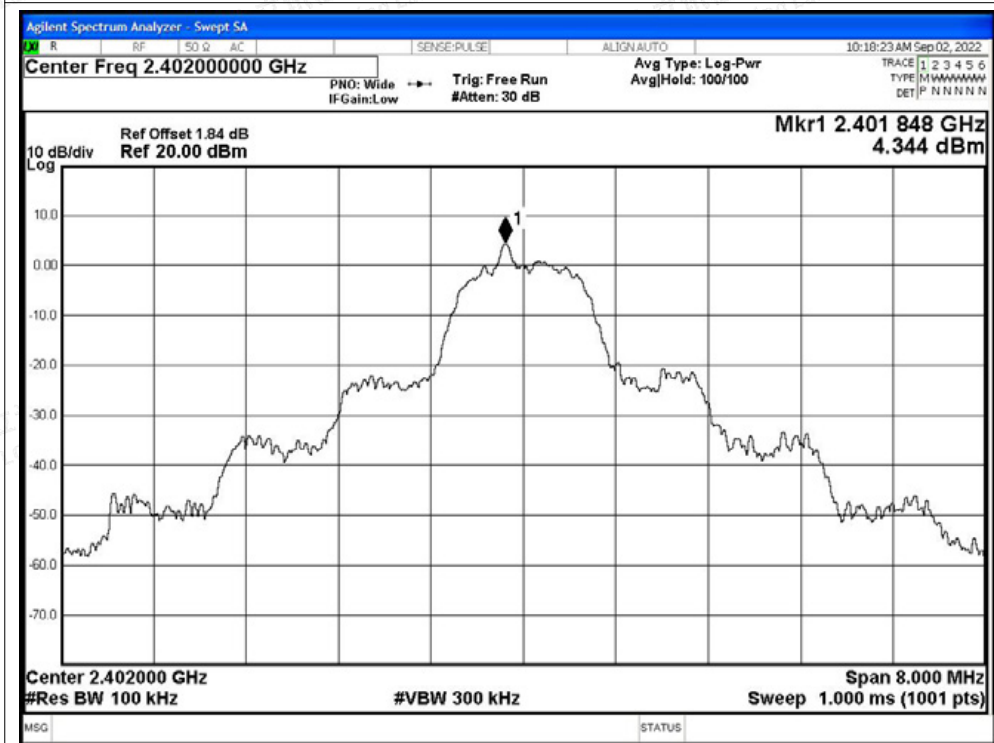


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

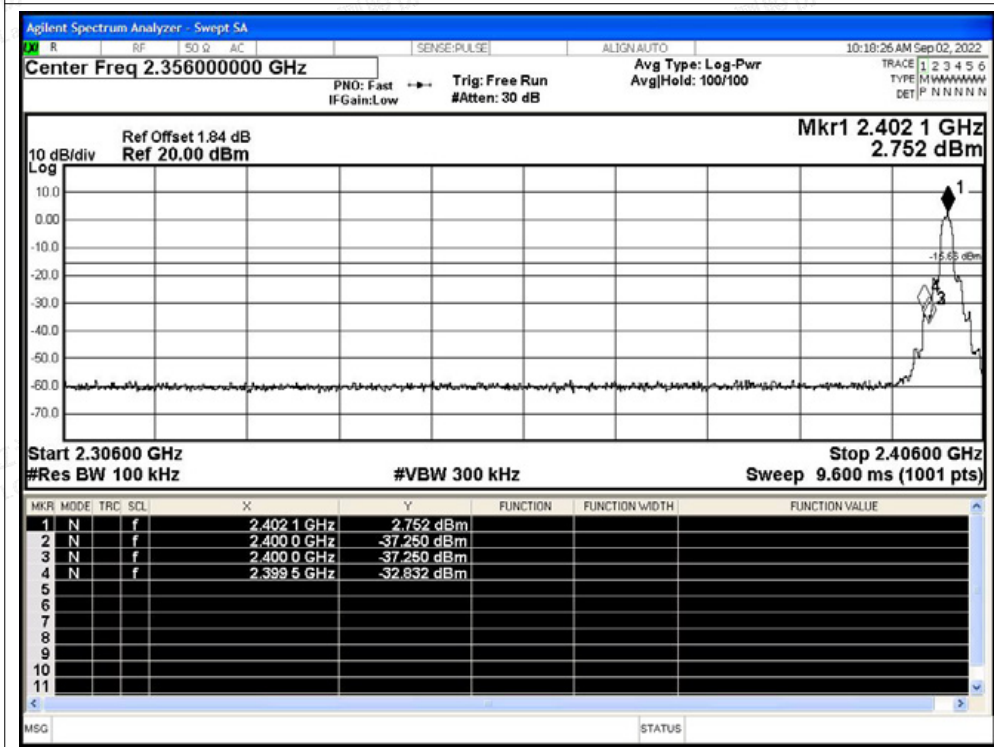




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

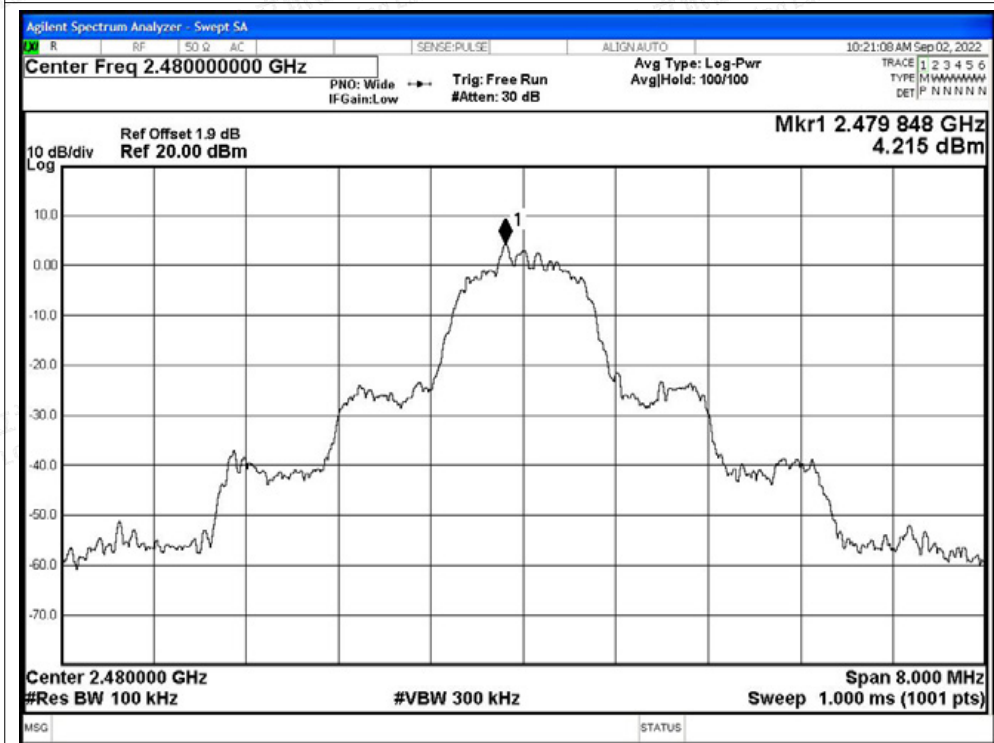


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

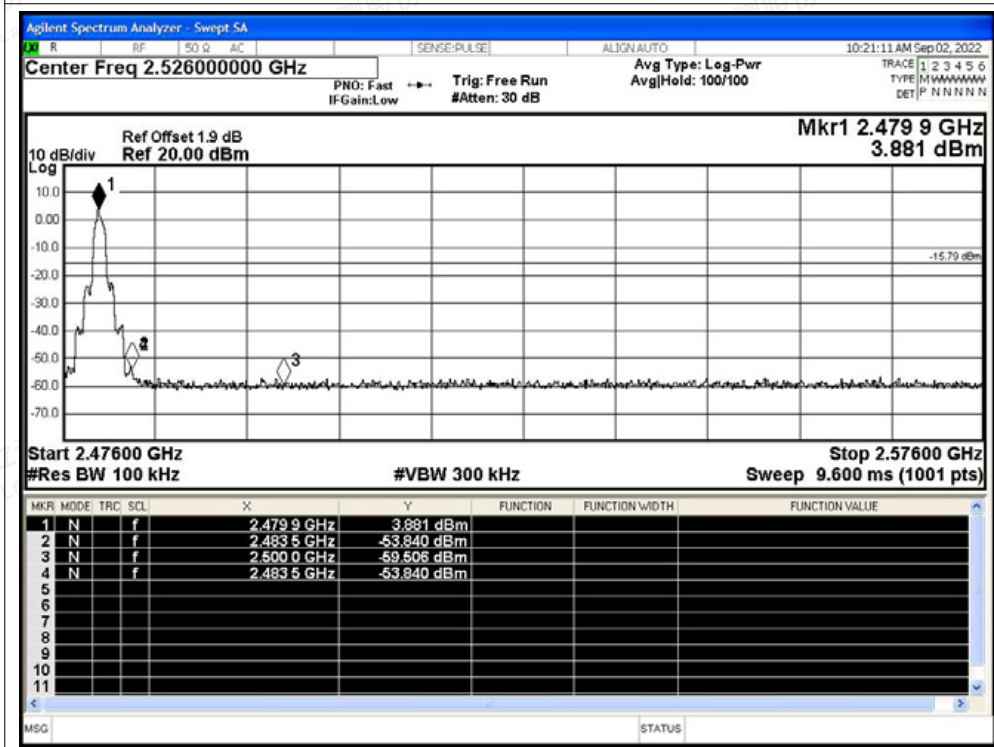




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

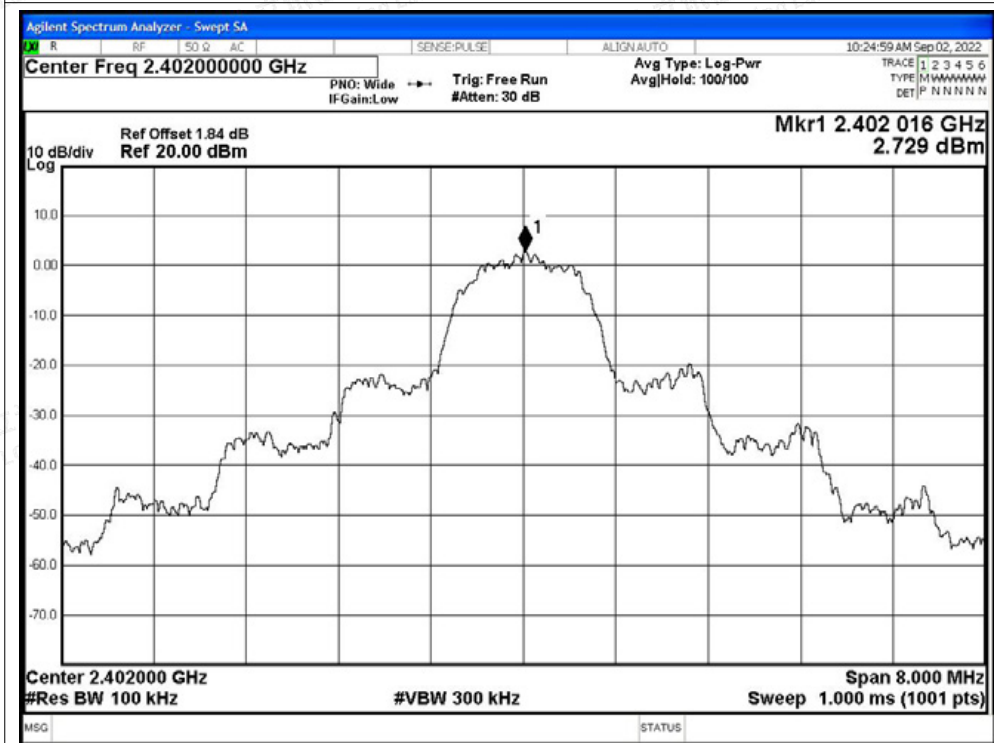


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission





Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

