

RF Test Data for 2.4G WiFi (Conducted Measurements)

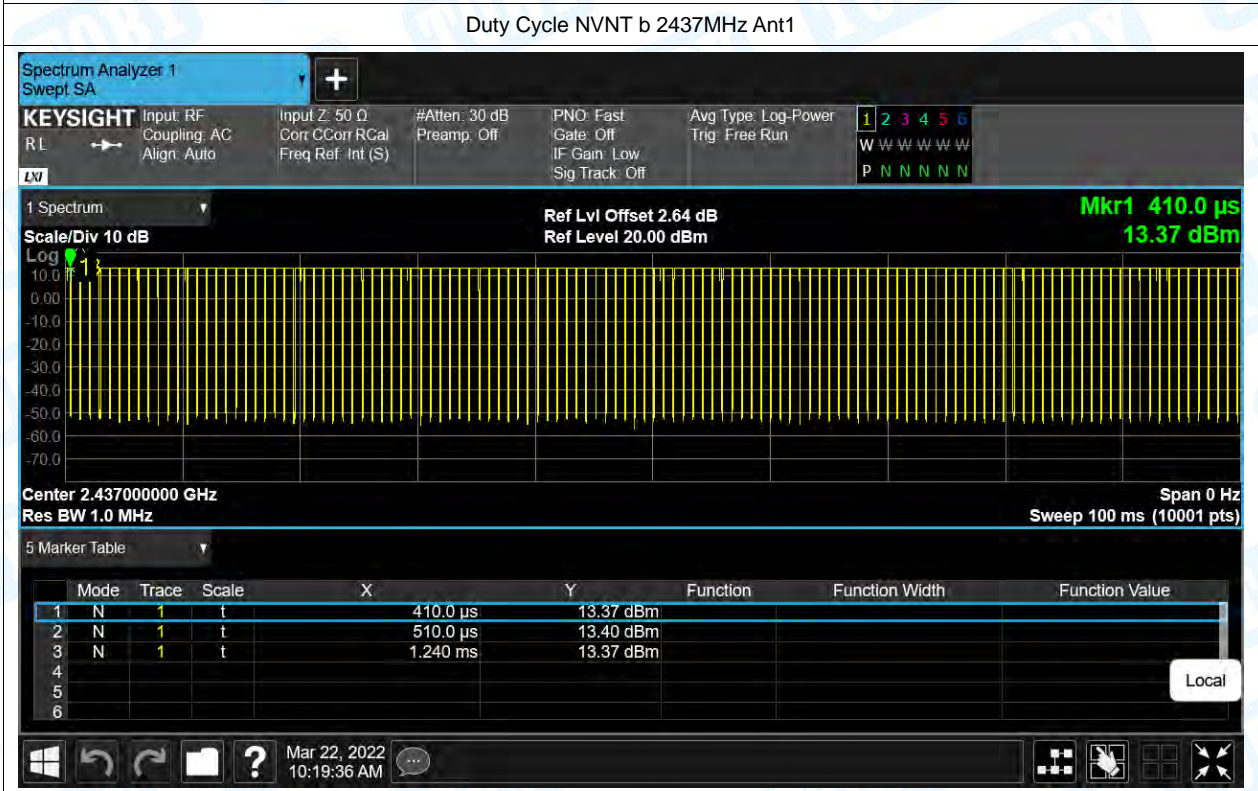
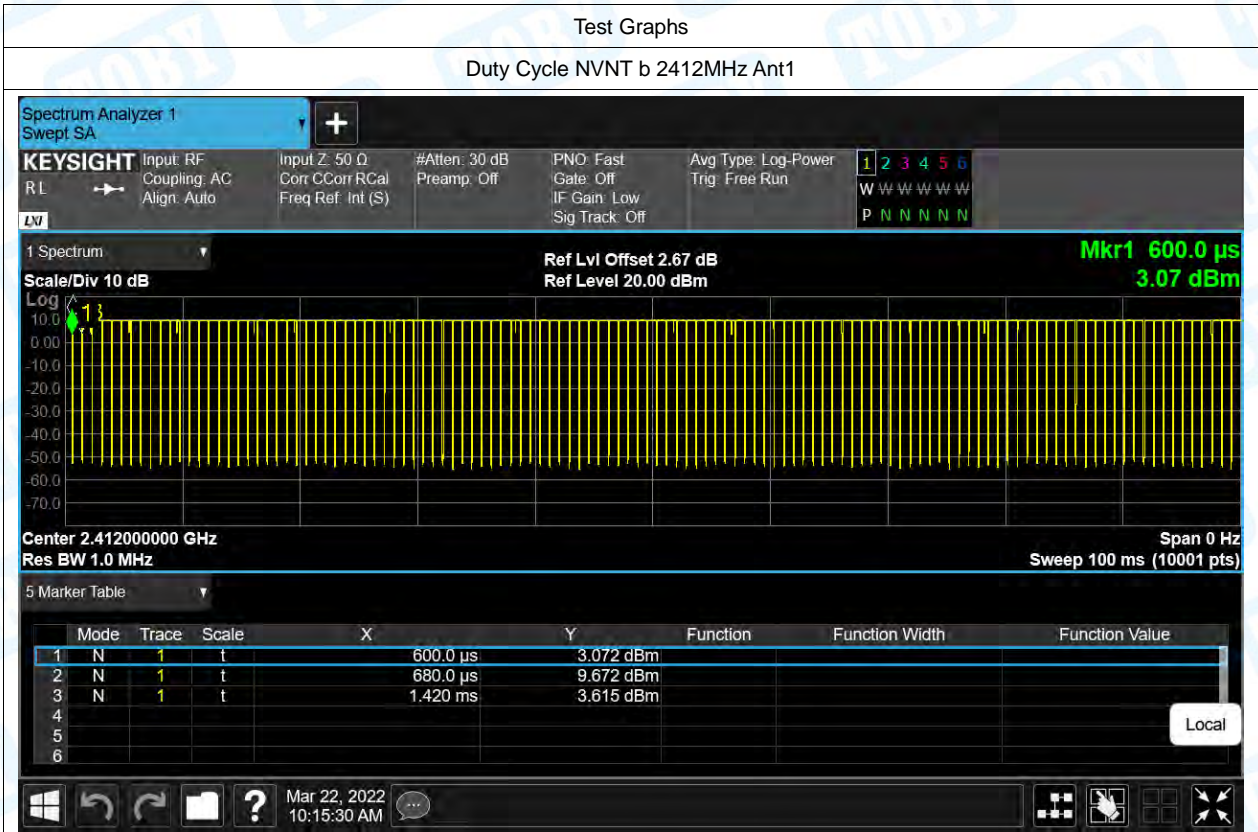
| General Description of EUT | |
|---|-------------------|
| Product Name: | Android tablet |
| Test Model/HVIN: | KST103SD-L |
| Sample ID: | 20210804-05_01-02 |
| Environmental Conditions | |
| Temperature: | 25°C |
| Relative Humidity: | 55% |
| Test Voltage: | DC 3.8V |
| Test Engineer: | Huangjianping |
| Note: For a more detailed features description, please refer to the report TBR-C-202202-0209-11 | |

Contents

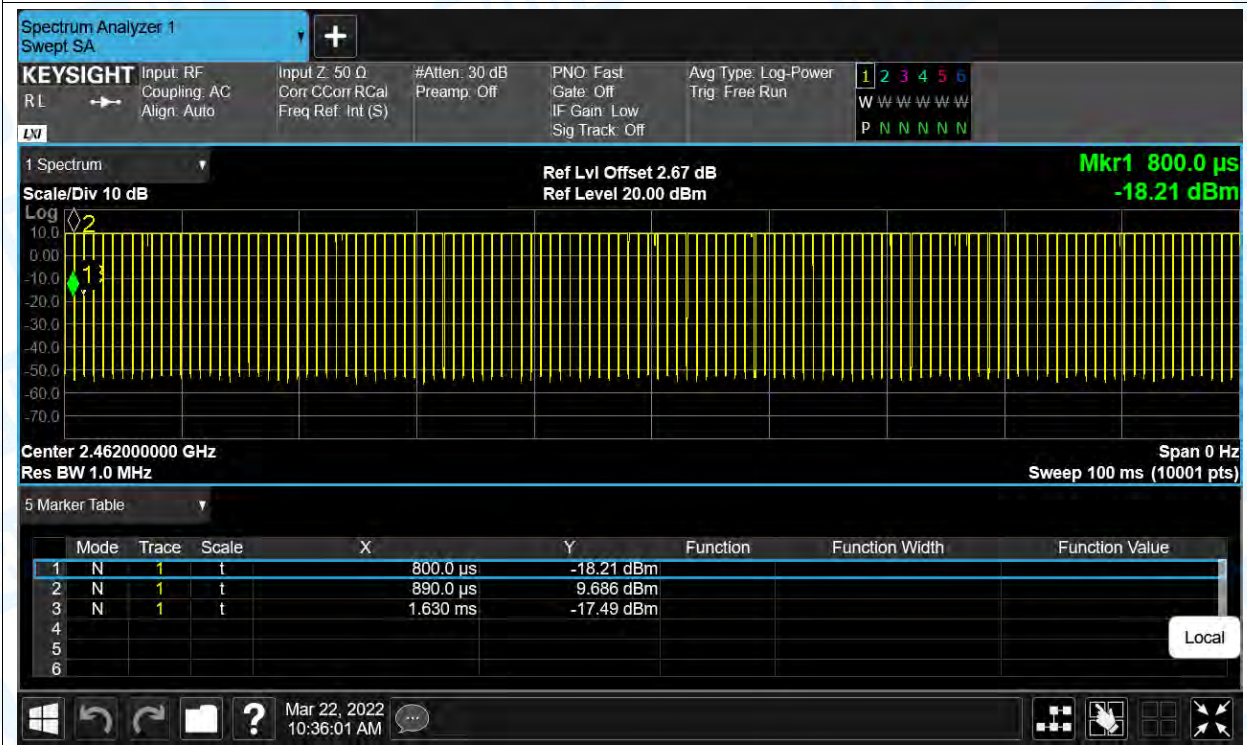
| | |
|---|----|
| 1.Duty Cycle..... | 3 |
| 2.Maximum Conducted Output Power | 10 |
| 3.-6dB Bandwidth | 11 |
| 4.Occupied Channel Bandwidth | 18 |
| 5.Maximum Power Spectral Density Level..... | 25 |
| 6.Band Edge | 32 |
| 7.Conducted RF Spurious Emission | 41 |
| 8.Restrict Band | 54 |

1.Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|---------|-----------------|---------|----------------|------------------------|-----------|
| NVNT | b | 2412 | Ant1 | 90.36 | 0.44 | 1.35 |
| NVNT | b | 2437 | Ant1 | 90.33 | 0.44 | 1.37 |
| NVNT | b | 2462 | Ant1 | 90.38 | 0.44 | 1.35 |
| NVNT | g | 2412 | Ant1 | 61.46 | 2.11 | 9.09 |
| NVNT | g | 2437 | Ant1 | 61.46 | 2.11 | 9.09 |
| NVNT | g | 2462 | Ant1 | 61.54 | 2.11 | 9.09 |
| NVNT | n(HT20) | 2412 | Ant1 | 61.62 | 2.1 | 9.09 |
| NVNT | n(HT20) | 2437 | Ant1 | 61.82 | 2.09 | 8.33 |
| NVNT | n(HT20) | 2462 | Ant1 | 61.54 | 2.11 | 8.33 |
| NVNT | n(HT40) | 2422 | Ant1 | 52.37 | 2.81 | 12.5 |
| NVNT | n(HT40) | 2437 | Ant1 | 51.51 | 2.88 | 14.29 |
| NVNT | n(HT40) | 2452 | Ant1 | 51.6 | 2.87 | 12.5 |



Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1

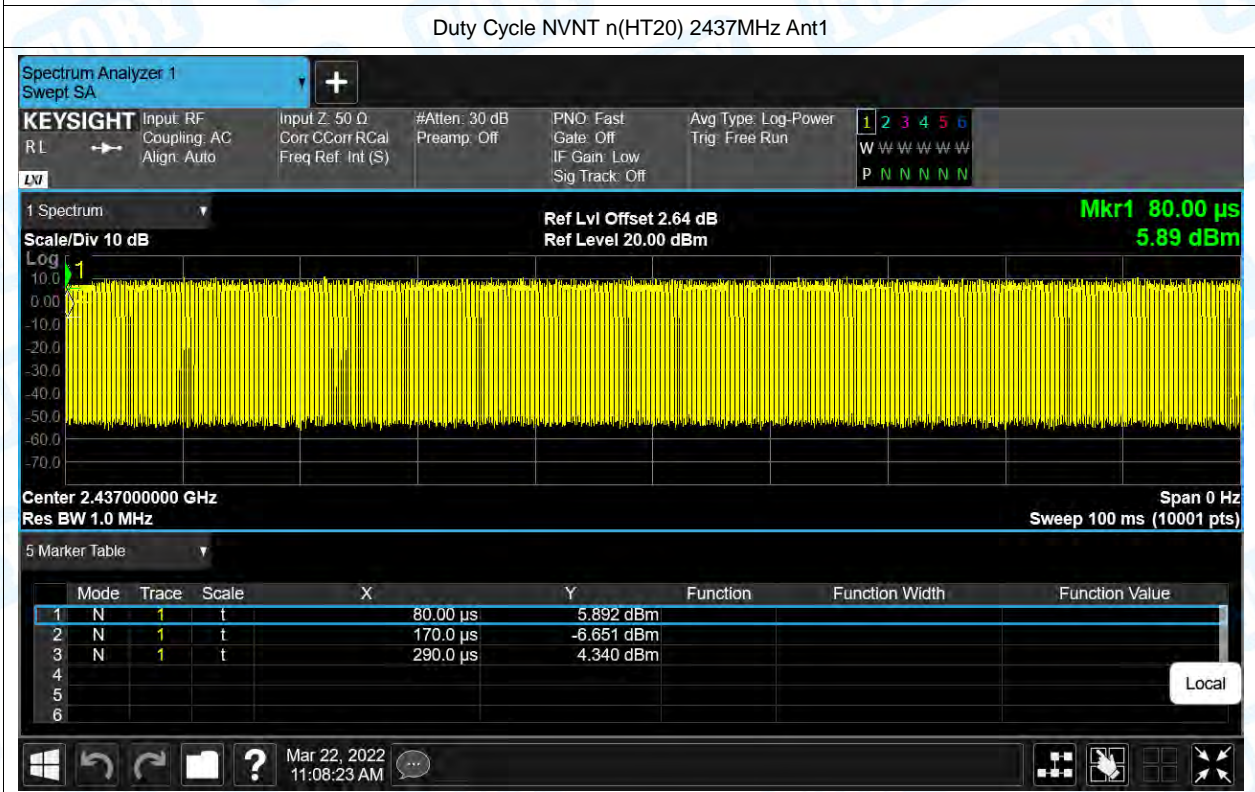
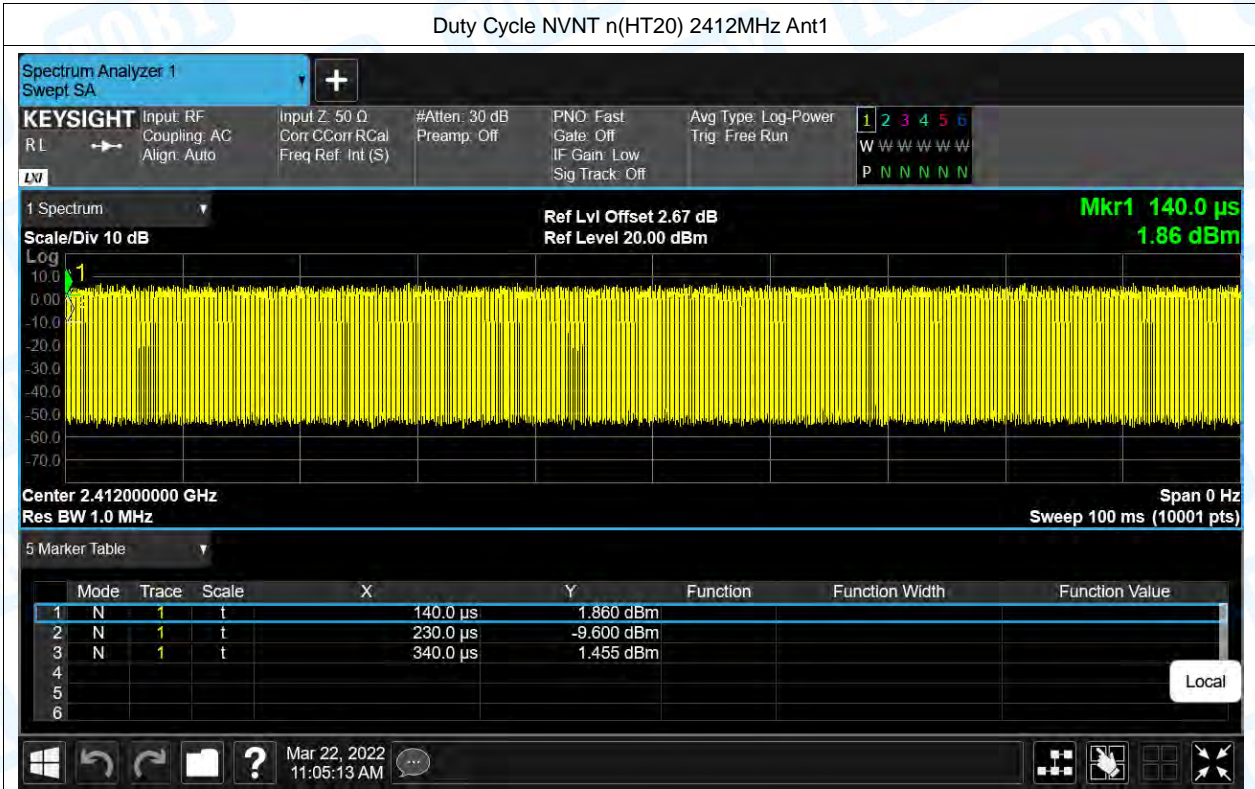


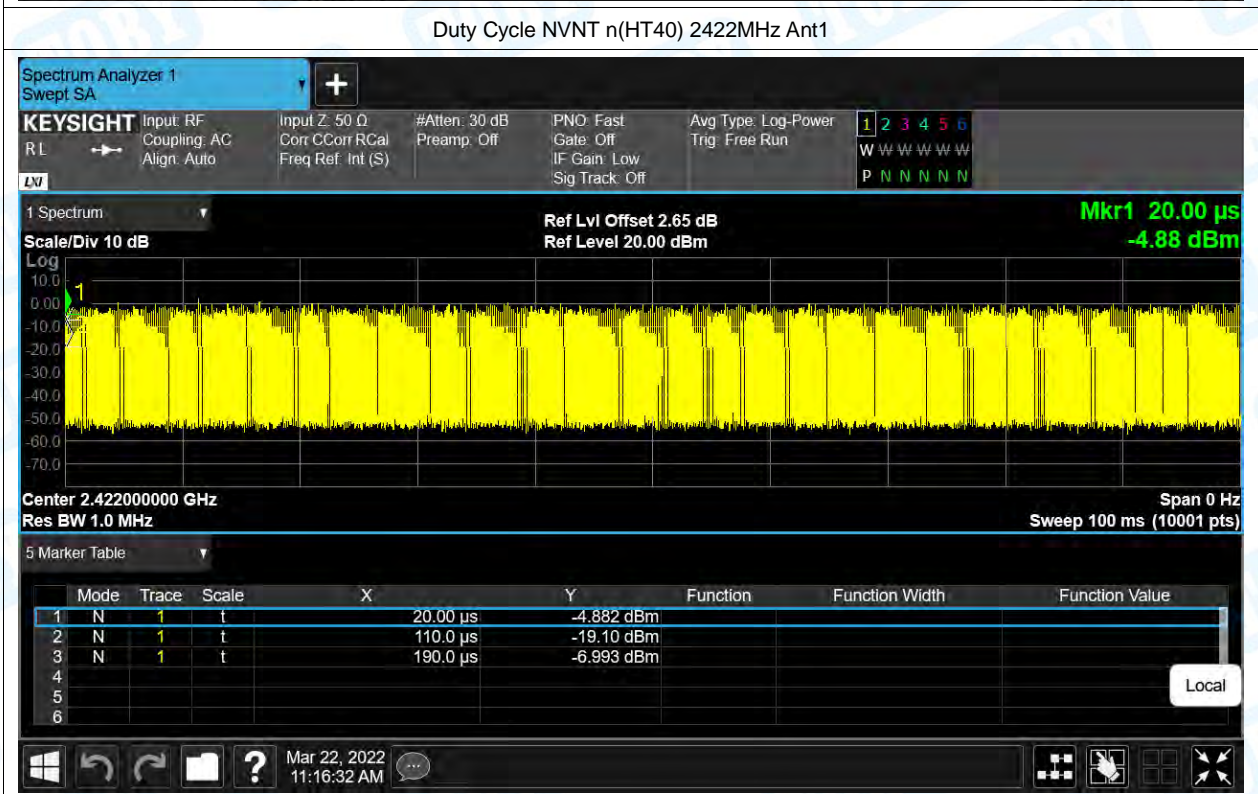
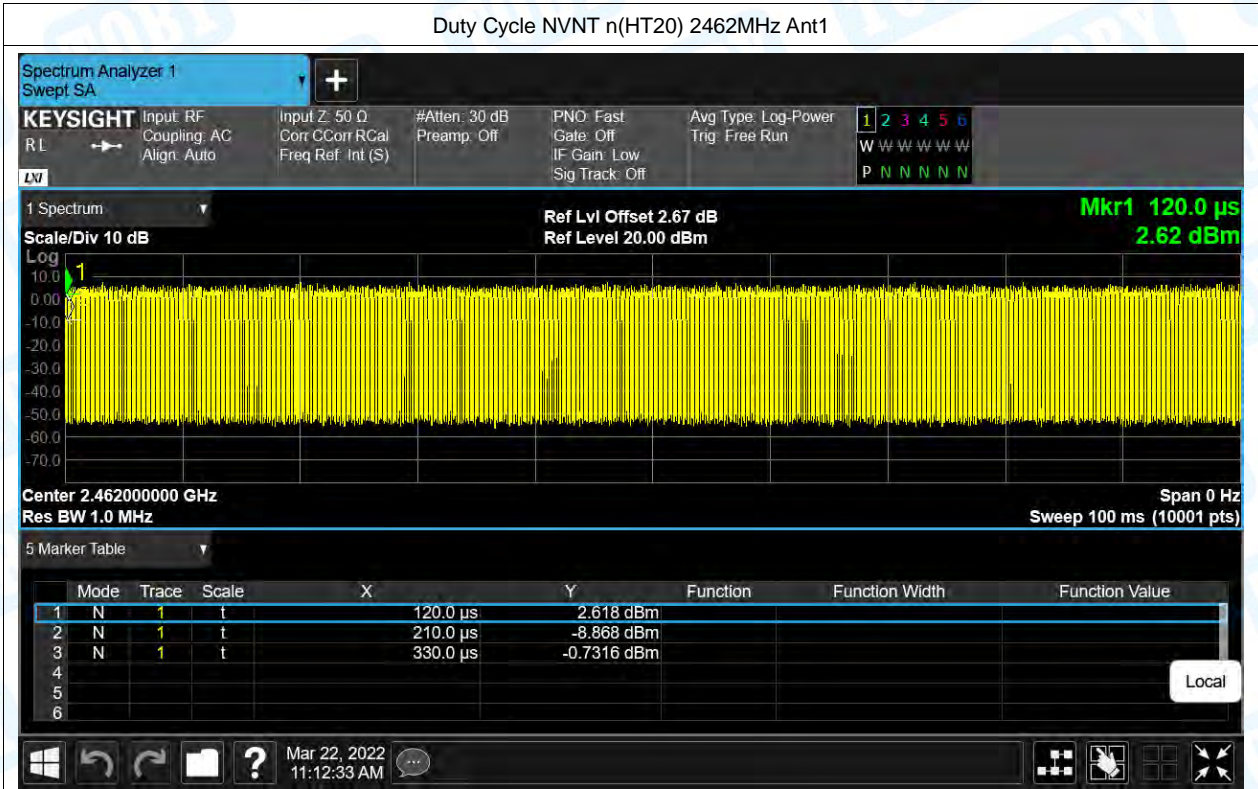
Duty Cycle NVNT g 2437MHz Ant1

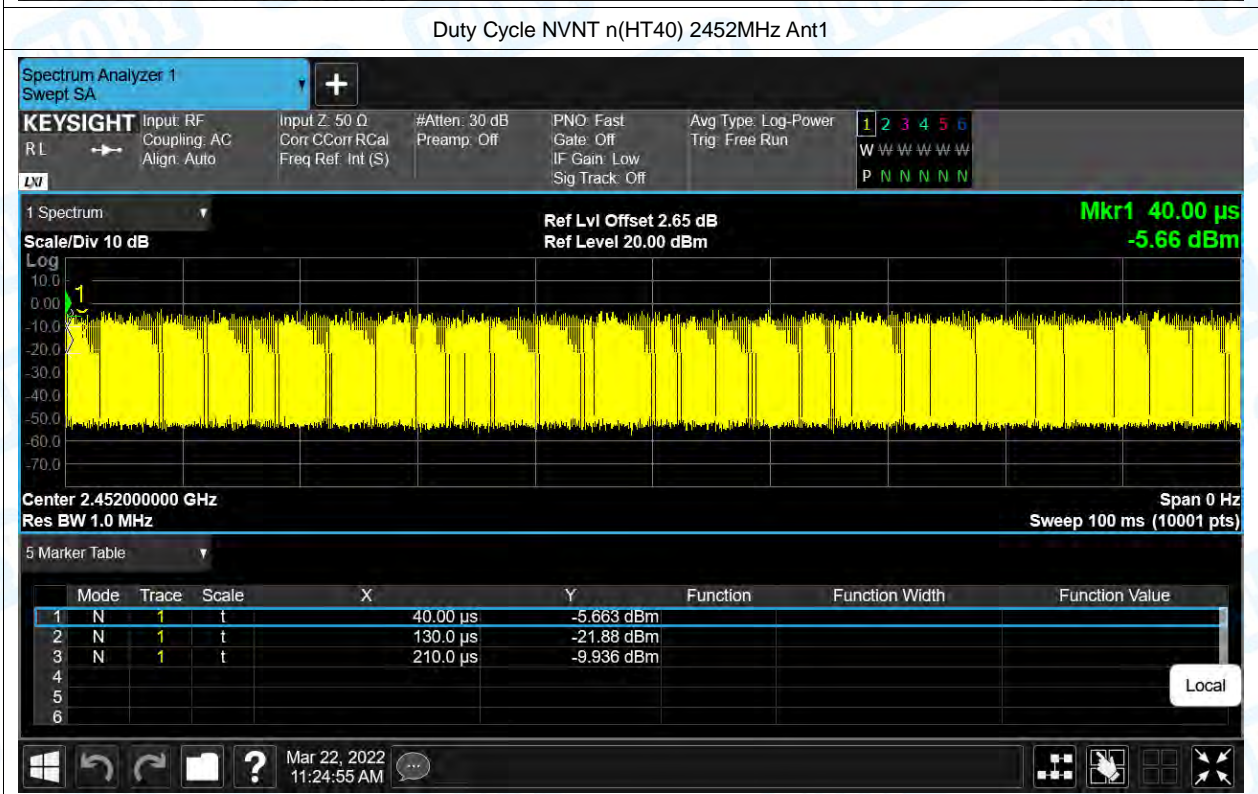
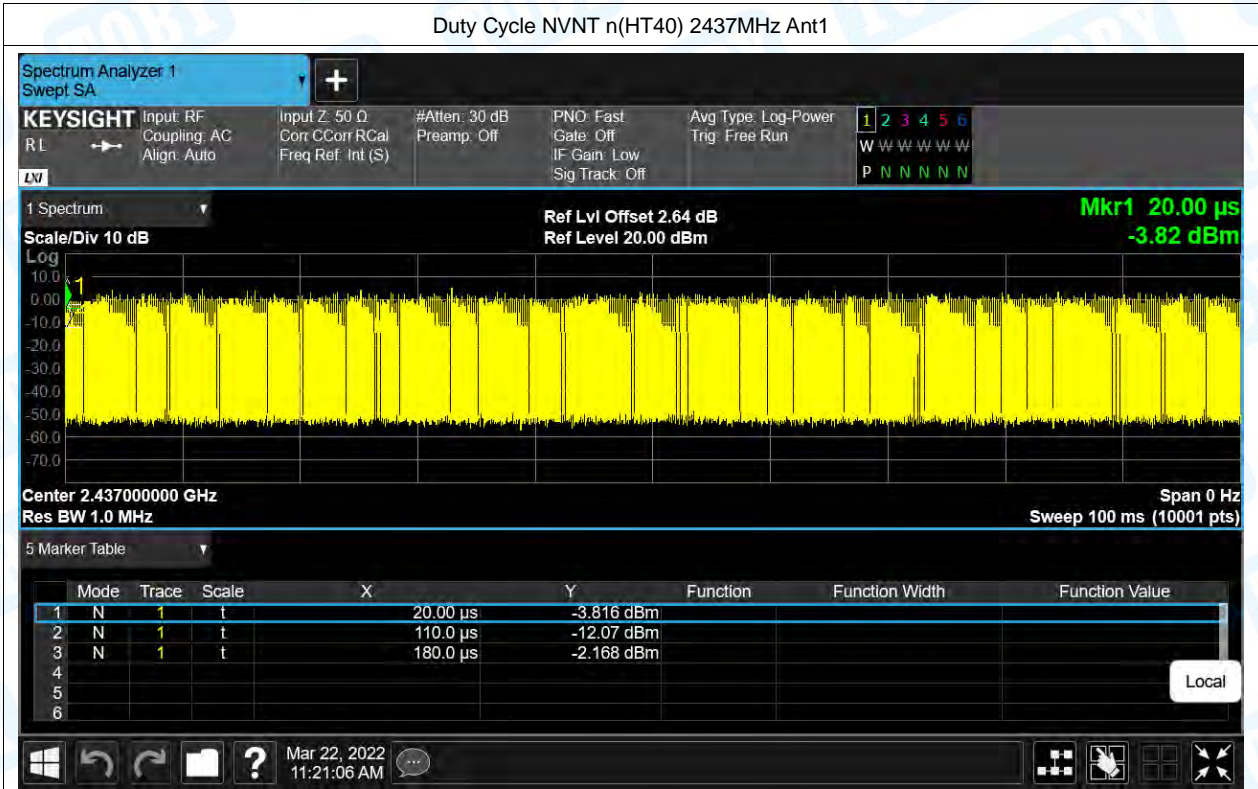


Duty Cycle NVNT g 2462MHz Ant1







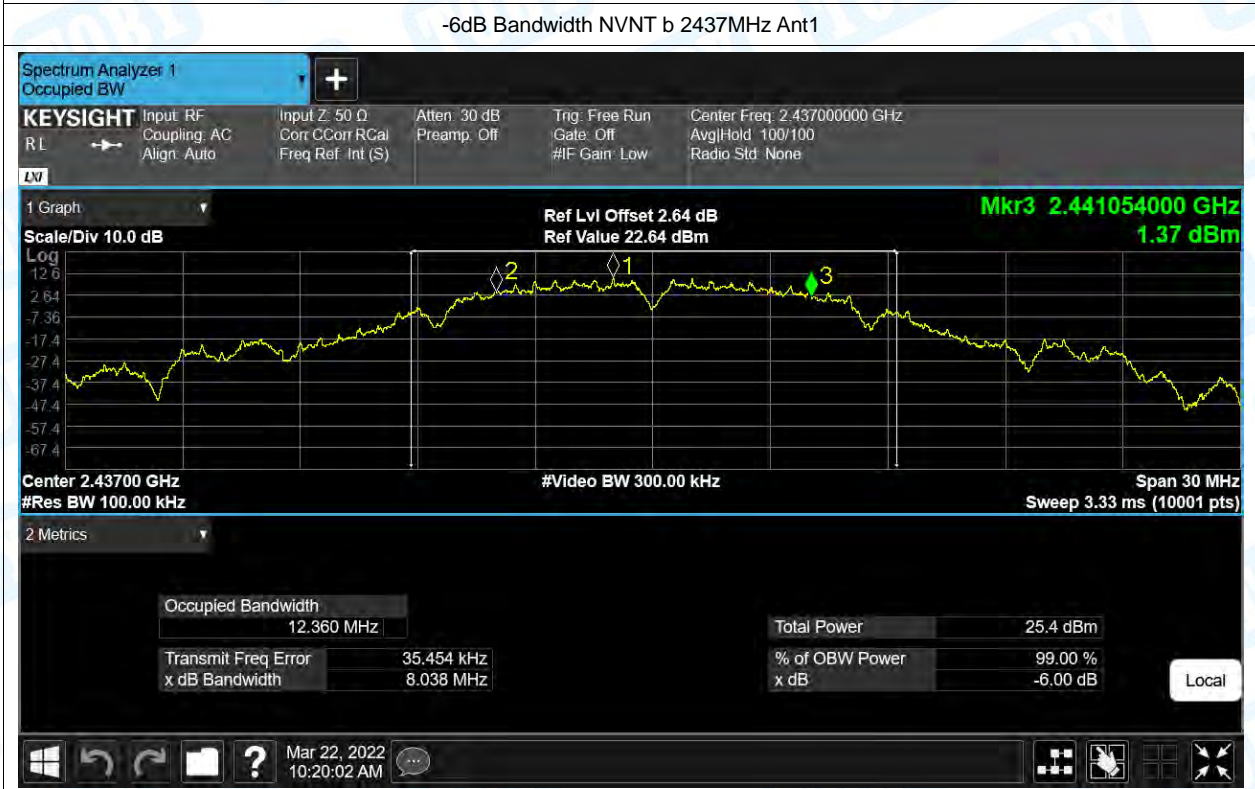


2.Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|---------|--------------------|---------|--------------------------|----------------|---------|
| NVNT | b | 2412 | Ant1 | 16.603 | 30 | Pass |
| NVNT | b | 2437 | Ant1 | 15.987 | 30 | Pass |
| NVNT | b | 2462 | Ant1 | 16.865 | 30 | Pass |
| NVNT | g | 2412 | Ant1 | 14.64 | 30 | Pass |
| NVNT | g | 2437 | Ant1 | 15.209 | 30 | Pass |
| NVNT | g | 2462 | Ant1 | 15.097 | 30 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | 15.04 | 30 | Pass |
| NVNT | n(HT20) | 2437 | Ant1 | 15.658 | 30 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | 15.462 | 30 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | 14.134 | 30 | Pass |
| NVNT | n(HT40) | 2437 | Ant1 | 13.768 | 30 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | 14.267 | 30 | Pass |

3.-6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | b | 2412 | Ant1 | 8.5 | 0.5 | Pass |
| NVNT | b | 2437 | Ant1 | 8.04 | 0.5 | Pass |
| NVNT | b | 2462 | Ant1 | 8.54 | 0.5 | Pass |
| NVNT | g | 2412 | Ant1 | 15.96 | 0.5 | Pass |
| NVNT | g | 2437 | Ant1 | 16.08 | 0.5 | Pass |
| NVNT | g | 2462 | Ant1 | 15.95 | 0.5 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | 16.56 | 0.5 | Pass |
| NVNT | n(HT20) | 2437 | Ant1 | 16.82 | 0.5 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | 16.71 | 0.5 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | 35.53 | 0.5 | Pass |
| NVNT | n(HT40) | 2437 | Ant1 | 35.1 | 0.5 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | 35.5 | 0.5 | Pass |

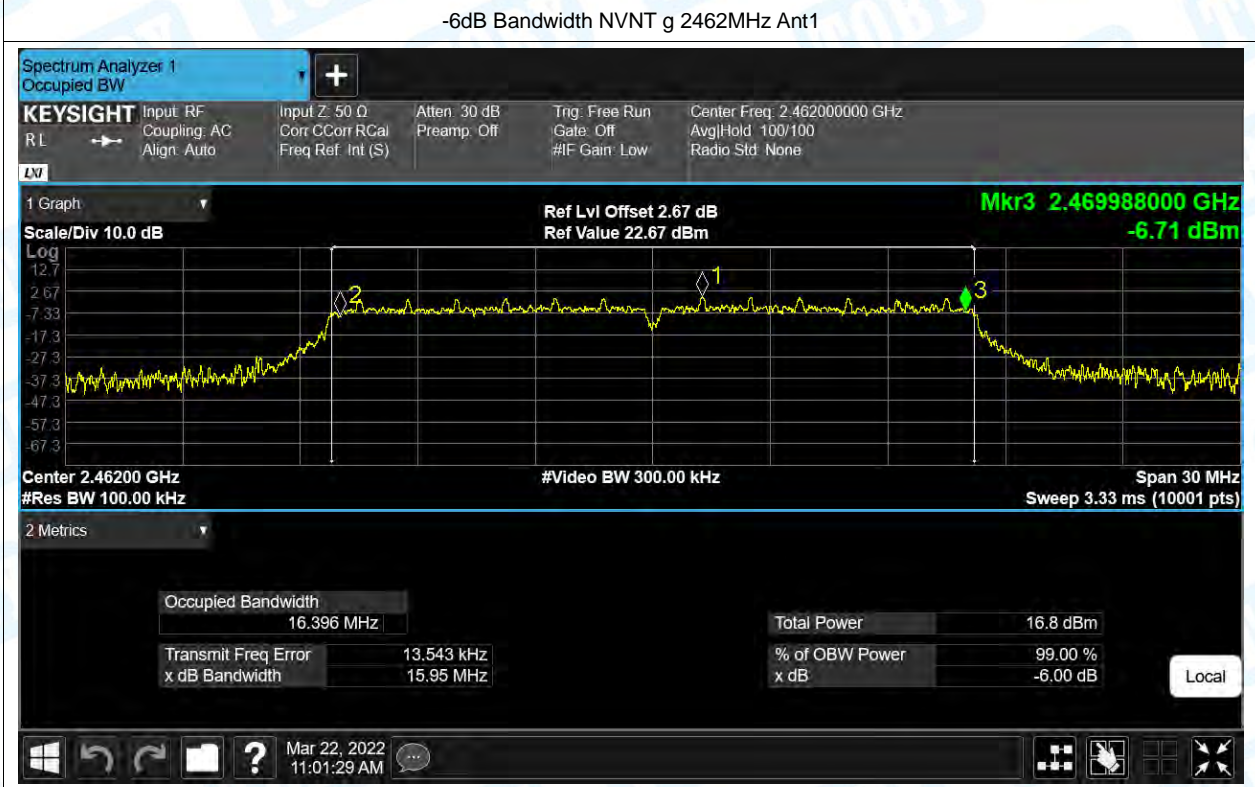
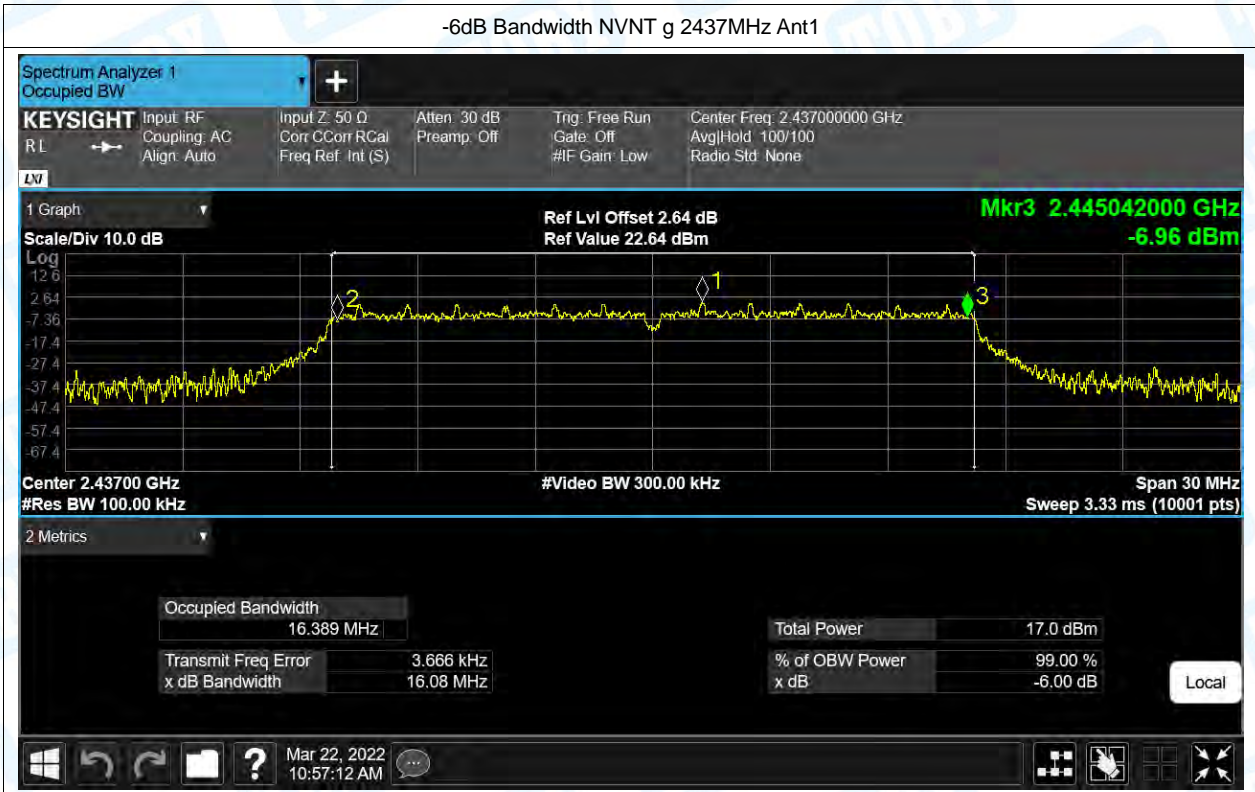


-6dB Bandwidth NVNT b 2462MHz Ant1

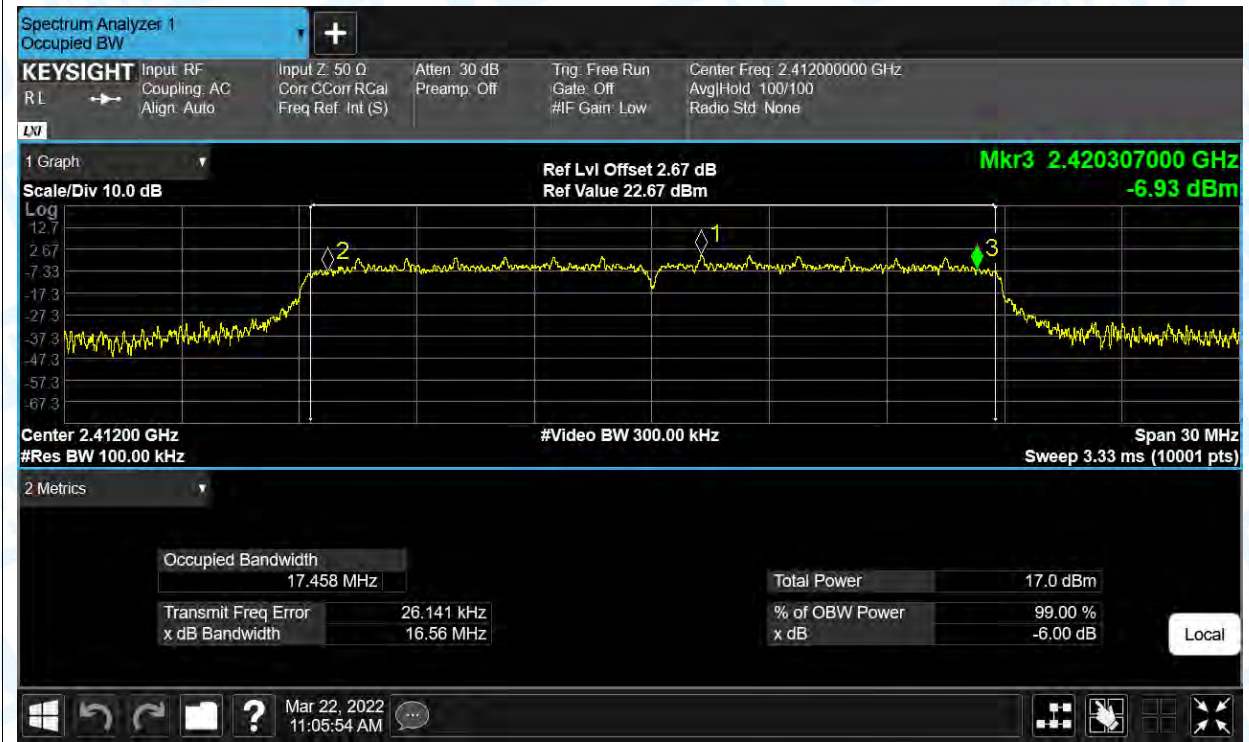


-6dB Bandwidth NVNT g 2412MHz Ant1

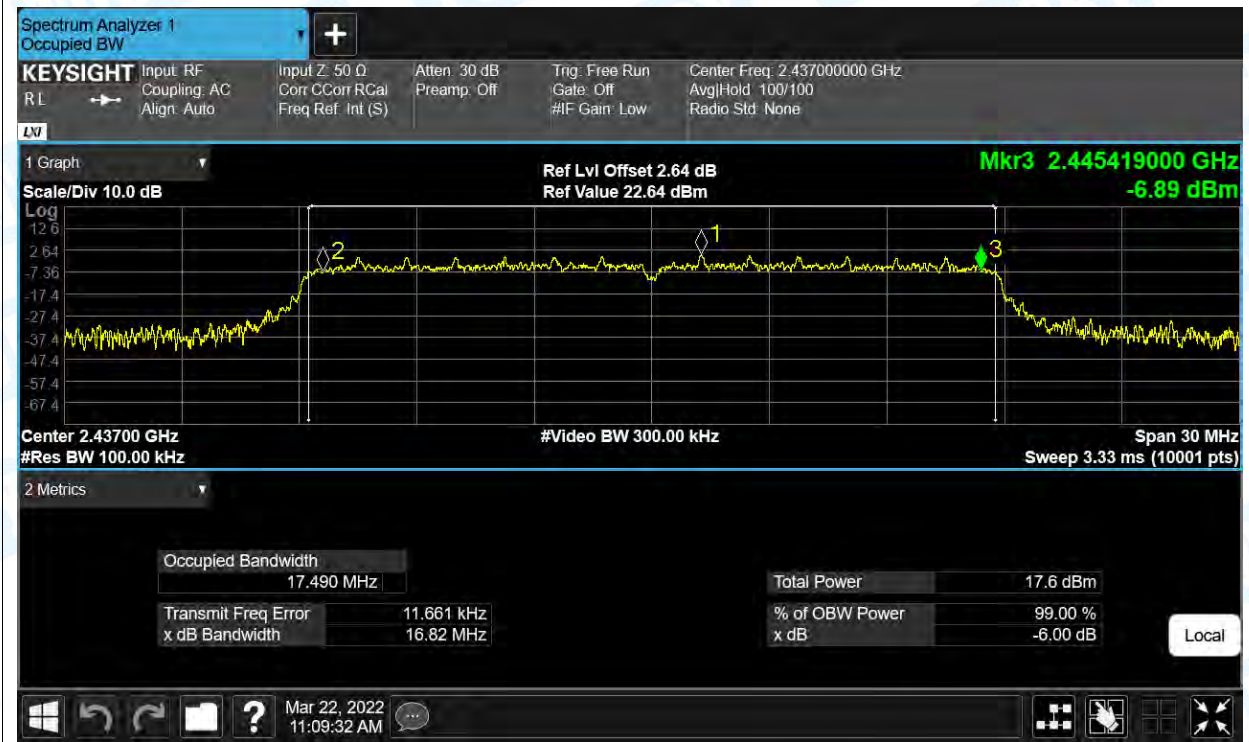




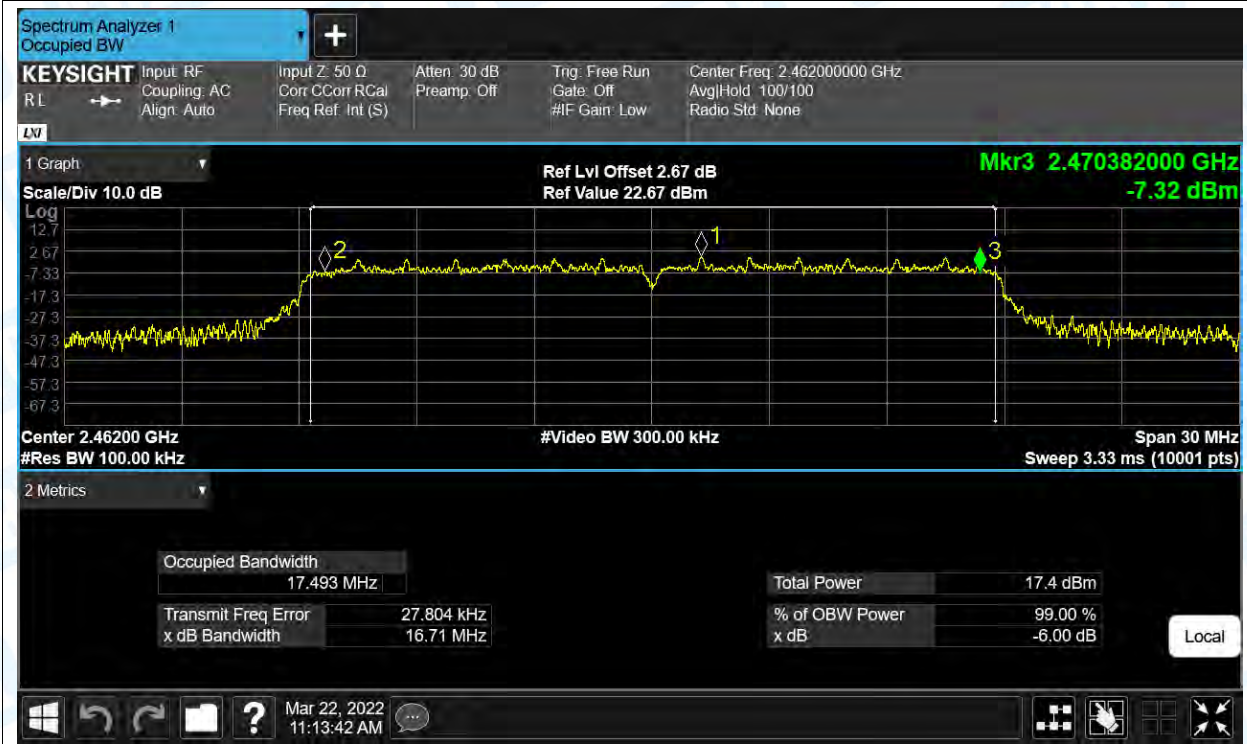
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



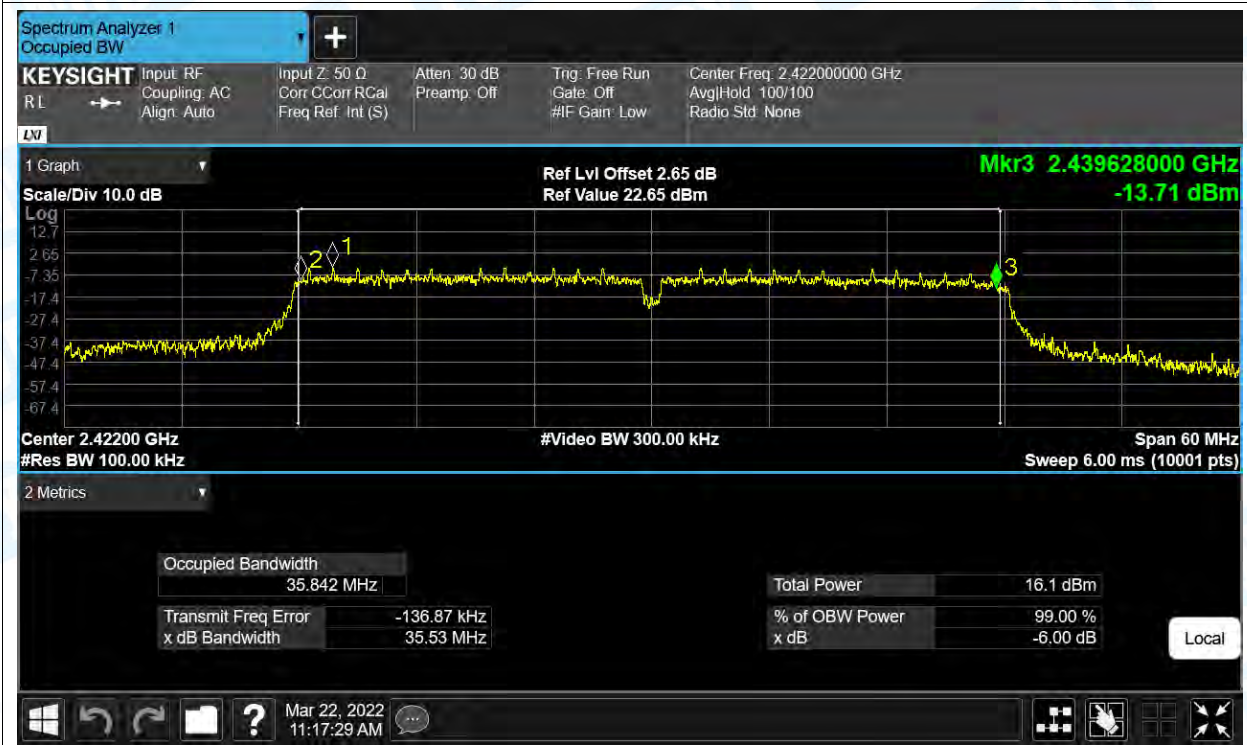
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



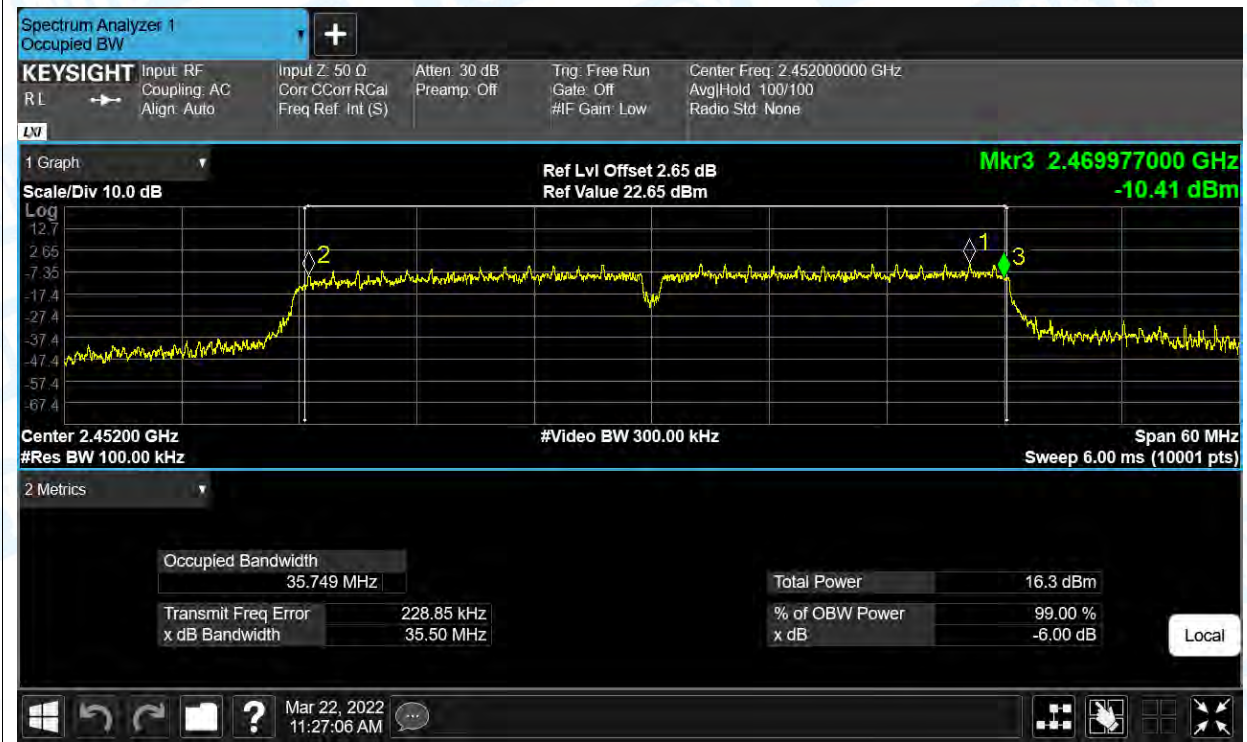
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1



4.Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|---------|-----------------|---------|---------------|
| NVNT | b | 2412 | Ant1 | 11.676 |
| NVNT | b | 2437 | Ant1 | 12.348 |
| NVNT | b | 2462 | Ant1 | 11.9 |
| NVNT | g | 2412 | Ant1 | 16.378 |
| NVNT | g | 2437 | Ant1 | 16.46 |
| NVNT | g | 2462 | Ant1 | 16.437 |
| NVNT | n(HT20) | 2412 | Ant1 | 17.452 |
| NVNT | n(HT20) | 2437 | Ant1 | 17.534 |
| NVNT | n(HT20) | 2462 | Ant1 | 17.534 |
| NVNT | n(HT40) | 2422 | Ant1 | 35.986 |
| NVNT | n(HT40) | 2437 | Ant1 | 35.76 |
| NVNT | n(HT40) | 2452 | Ant1 | 36.036 |

Test Graphs

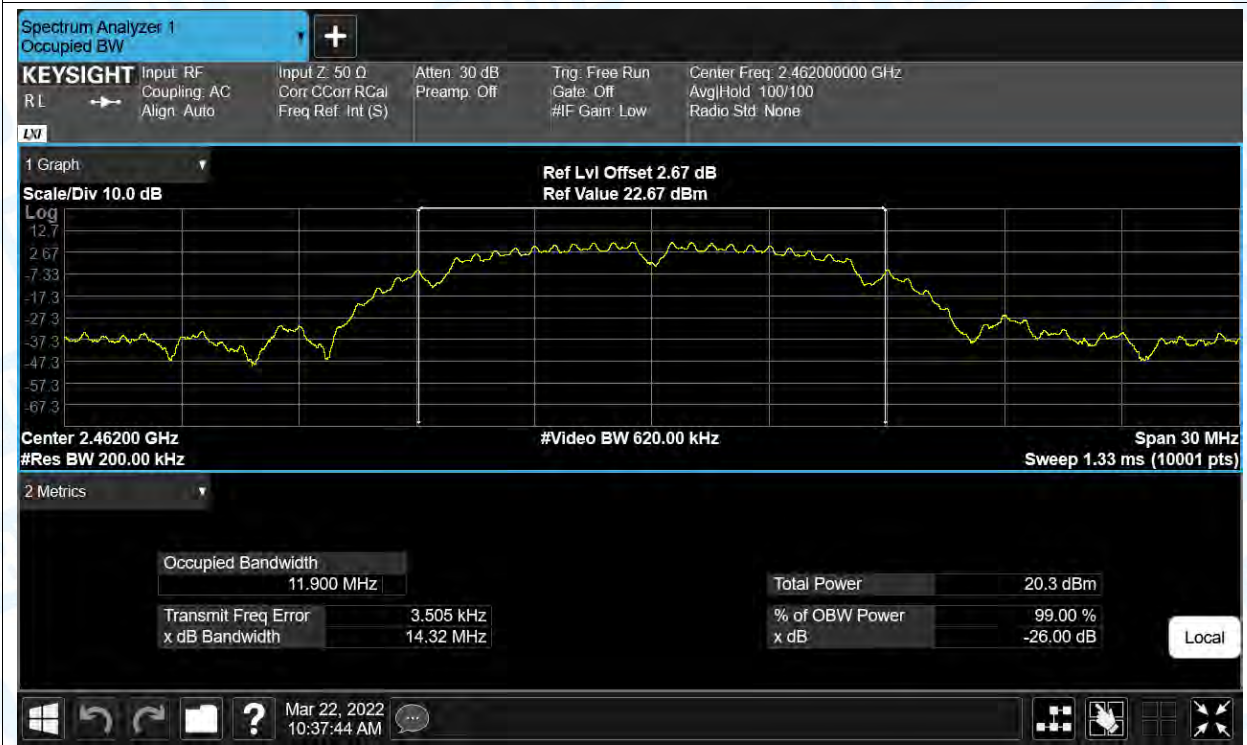
OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1

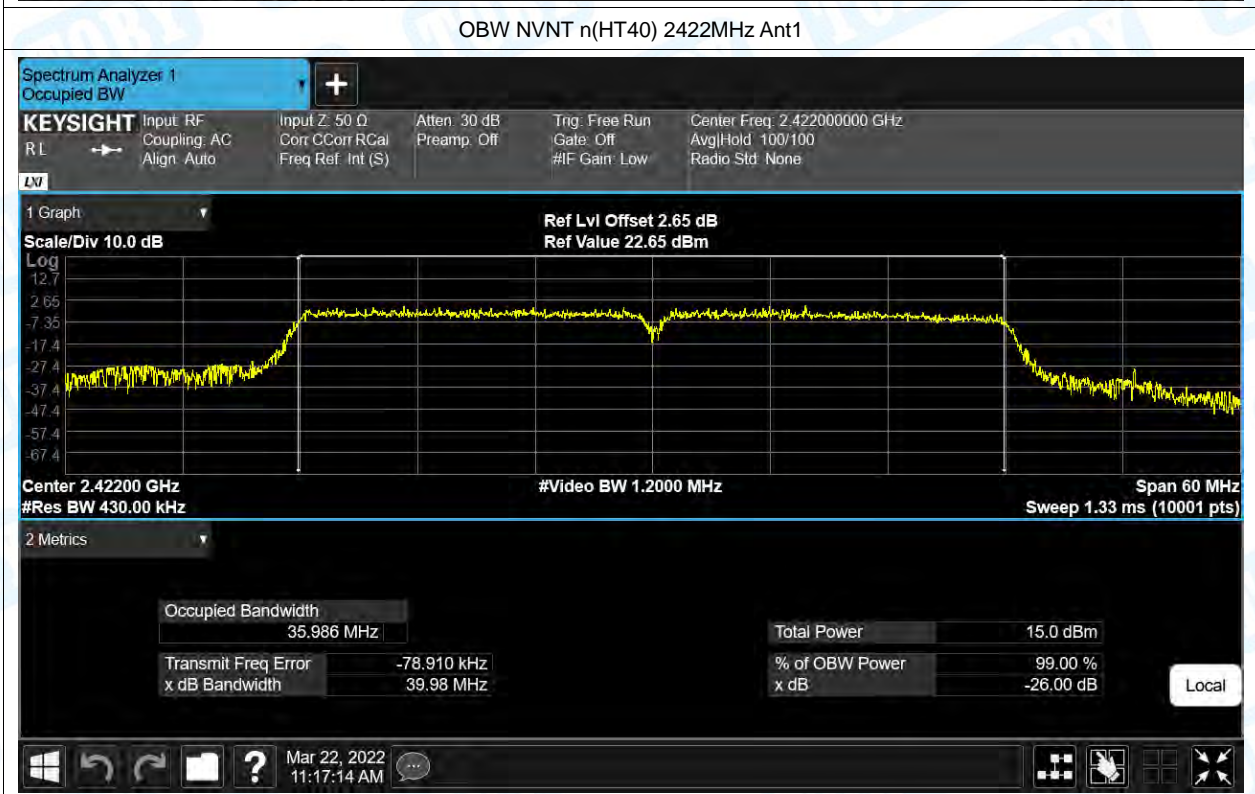
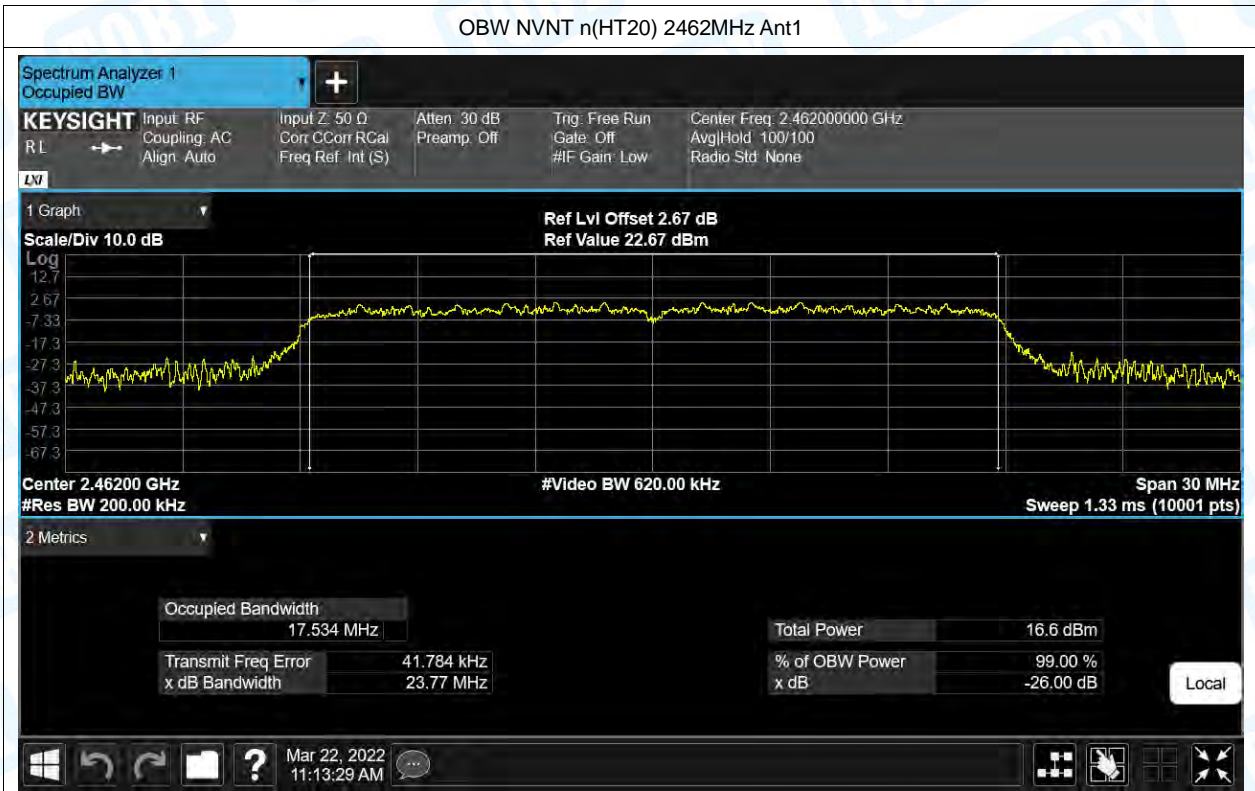


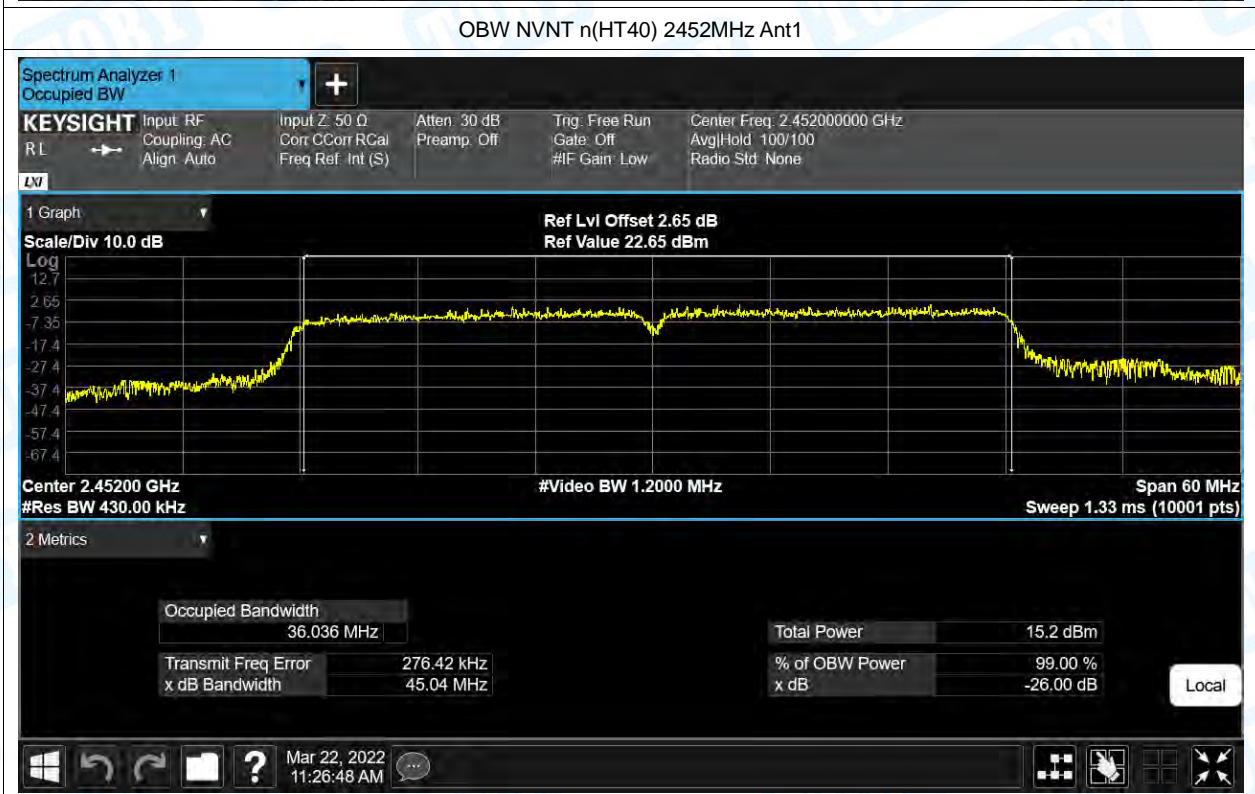
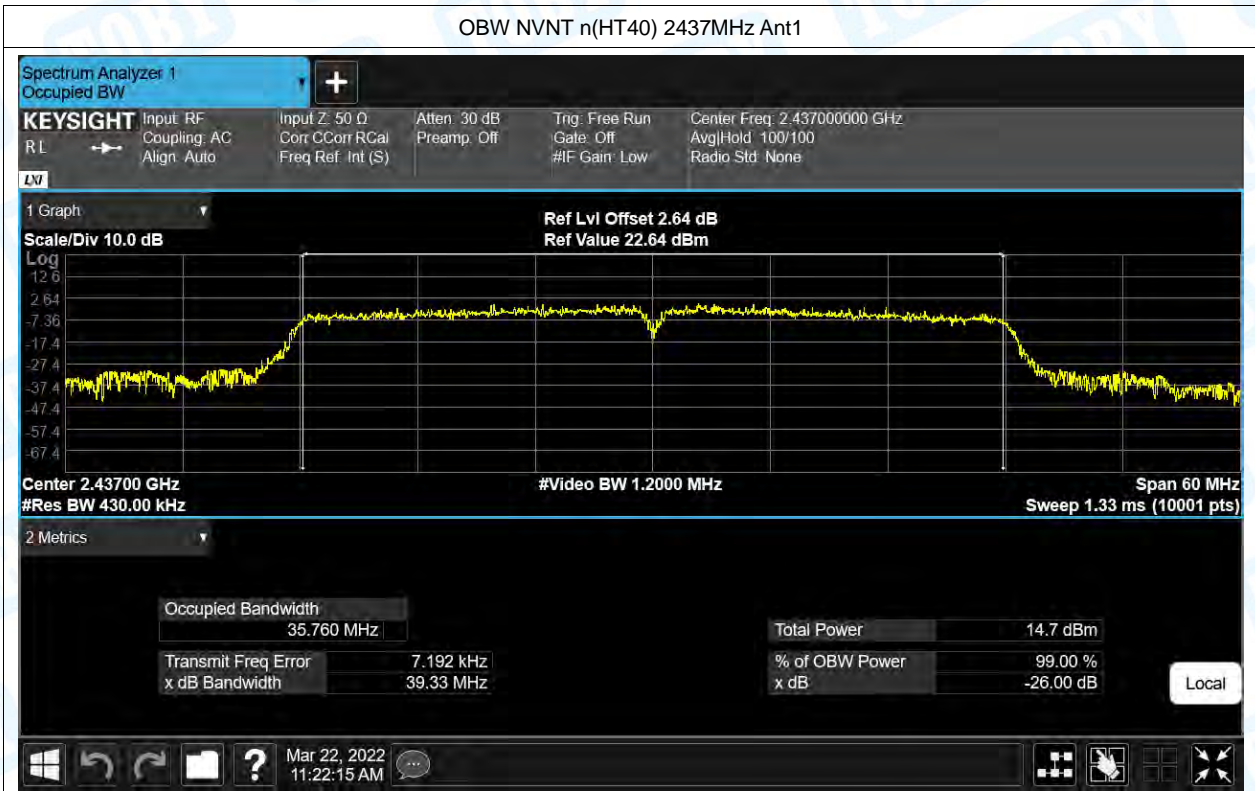
OBW NVNT n(HT20) 2412MHz Ant1



OBW NVNT n(HT20) 2437MHz Ant1







5. Maximum Power Spectral Density Level

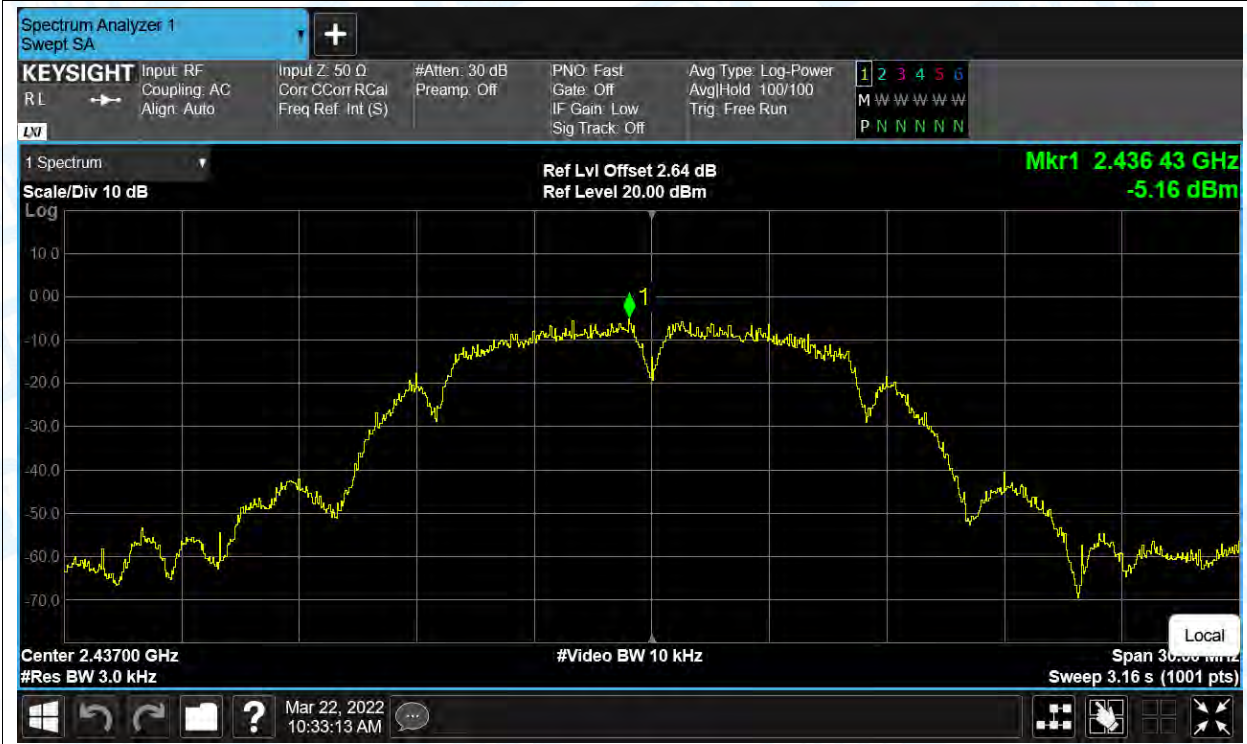
| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|---------|---------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | -7.508 | 8 | Pass |
| NVNT | b | 2437 | Ant1 | -5.162 | 8 | Pass |
| NVNT | b | 2462 | Ant1 | -6.99 | 8 | Pass |
| NVNT | g | 2412 | Ant1 | -14.344 | 8 | Pass |
| NVNT | g | 2437 | Ant1 | -15.011 | 8 | Pass |
| NVNT | g | 2462 | Ant1 | -15.275 | 8 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | -15.922 | 8 | Pass |
| NVNT | n(HT20) | 2437 | Ant1 | -15.921 | 8 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | -15.975 | 8 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | -19.927 | 8 | Pass |
| NVNT | n(HT40) | 2437 | Ant1 | -19.027 | 8 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | -18.715 | 8 | Pass |

Test Graphs

PSD NVNT b 2412MHz Ant1



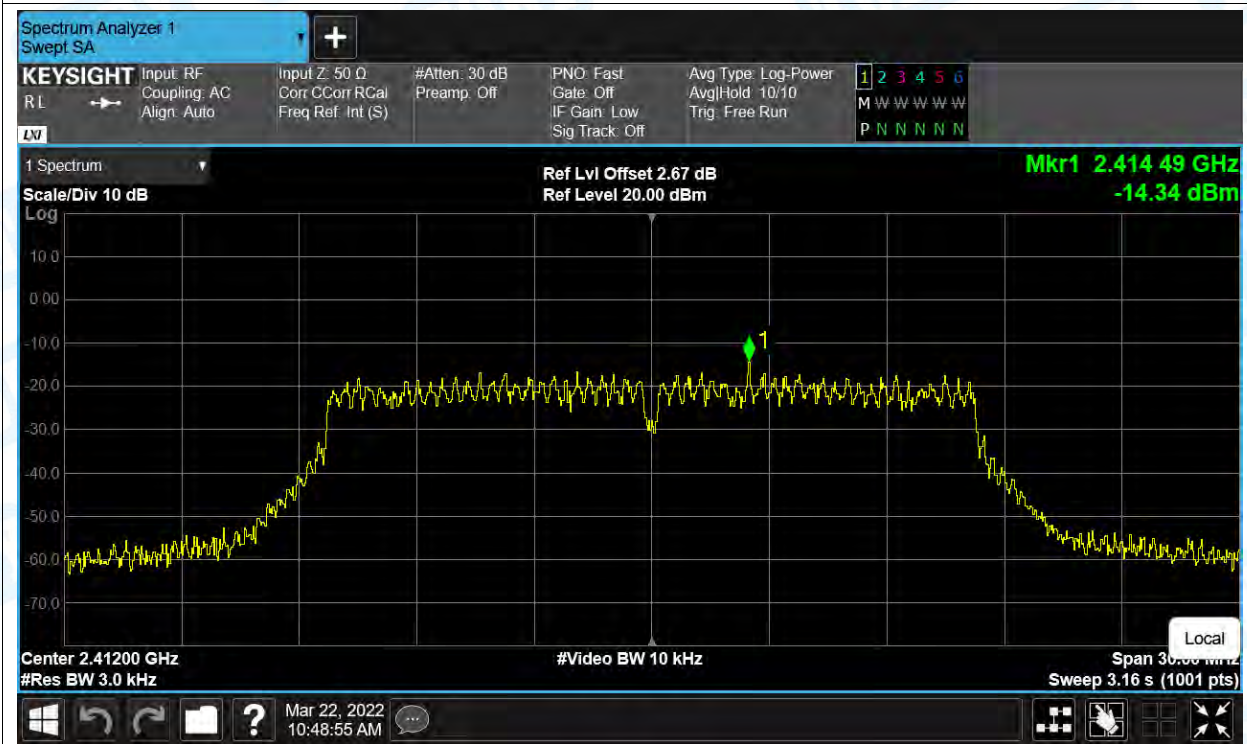
PSD NVNT b 2437MHz Ant1

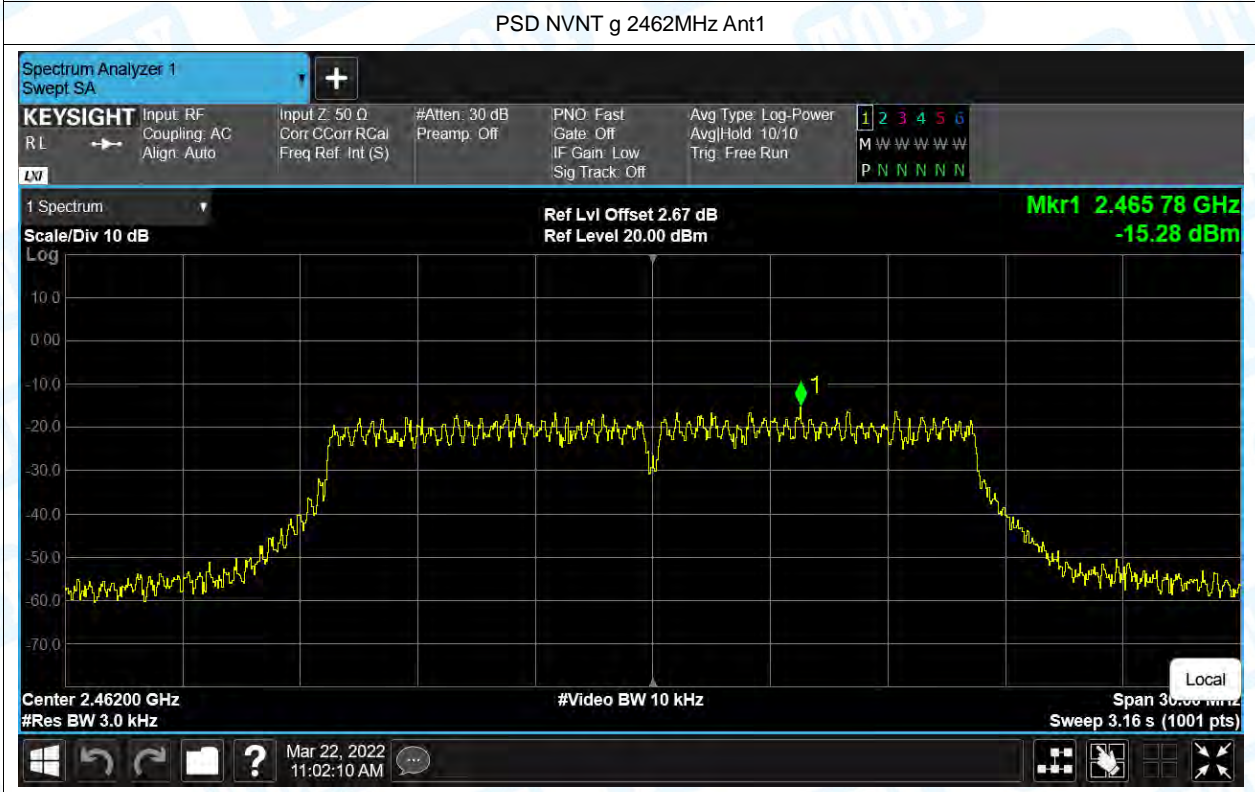
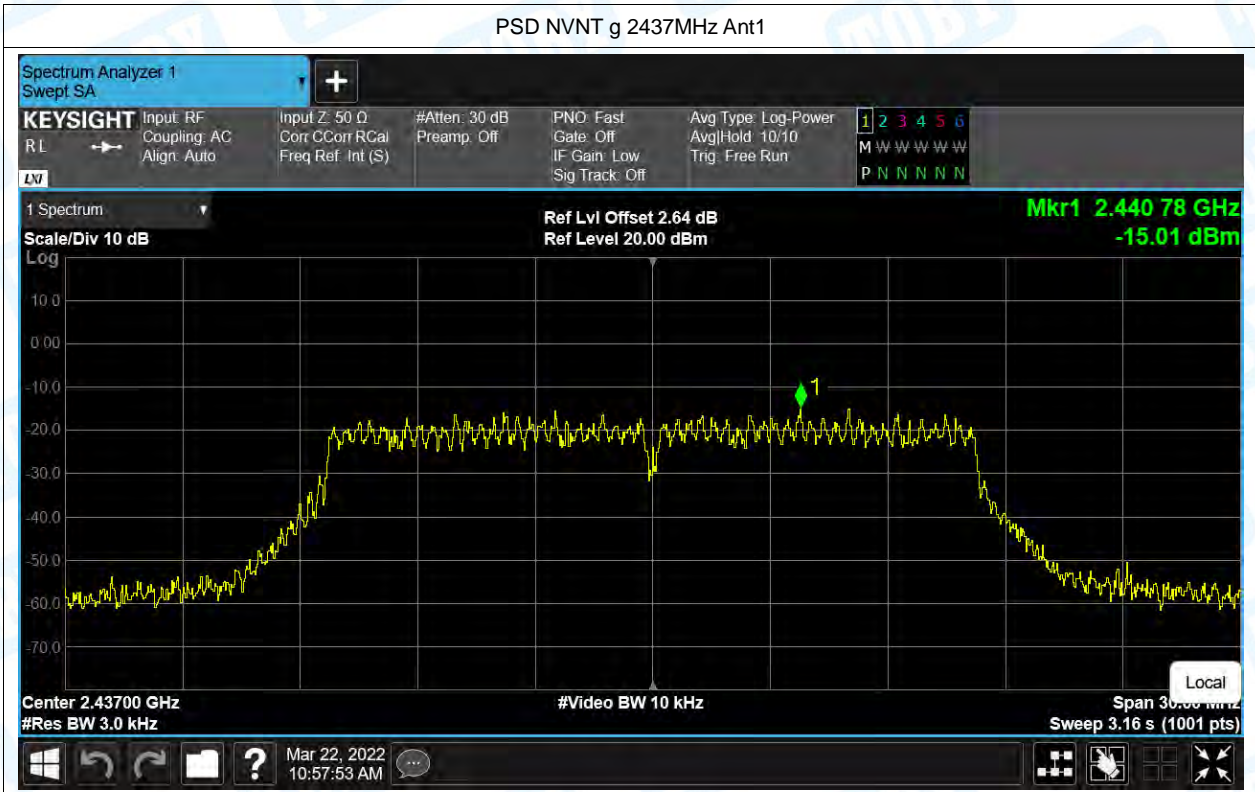


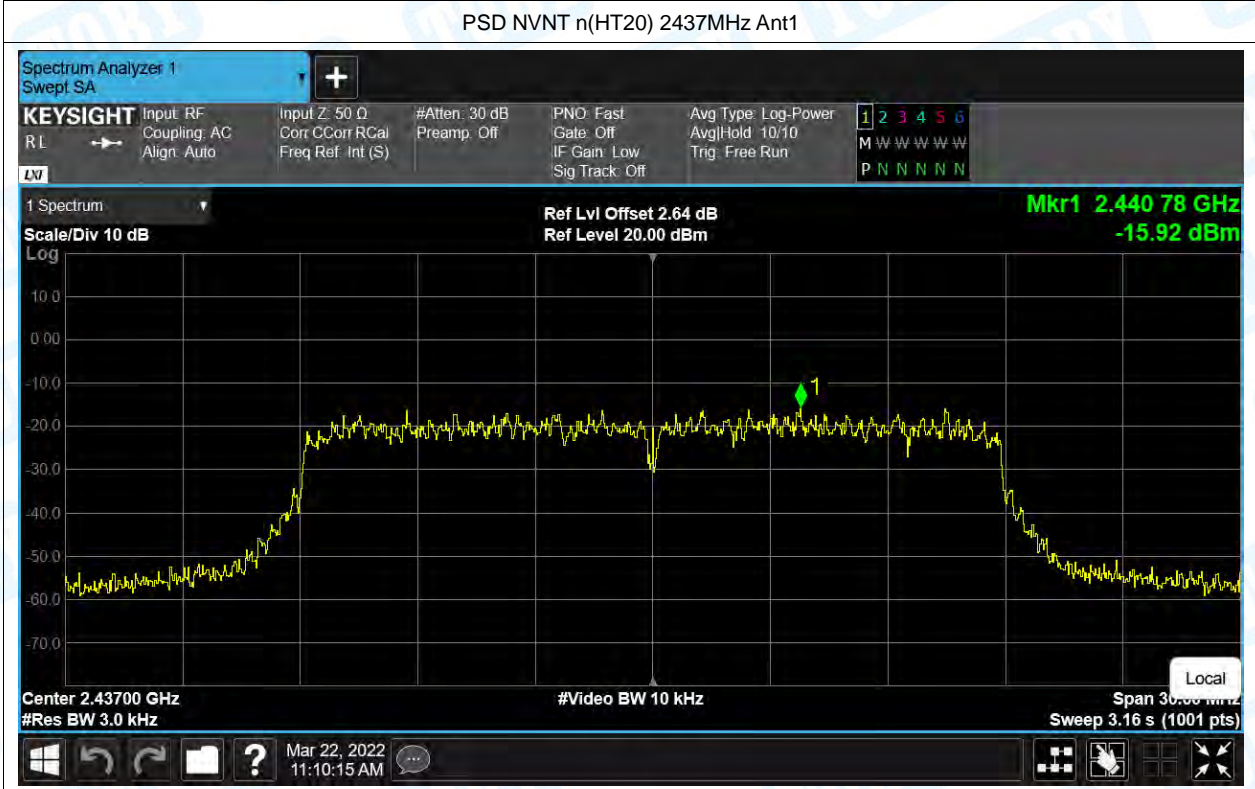
PSD NVNT b 2462MHz Ant1

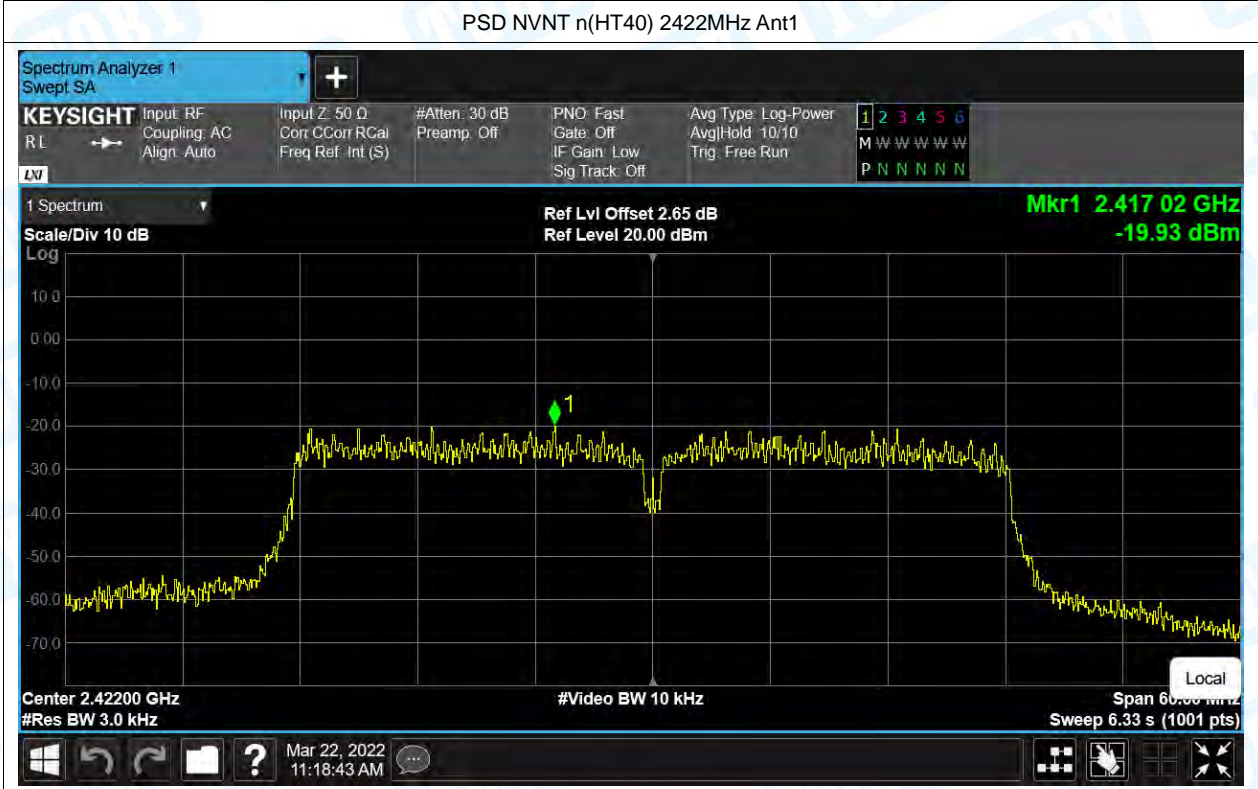


PSD NVNT g 2412MHz Ant1











6.Band Edge

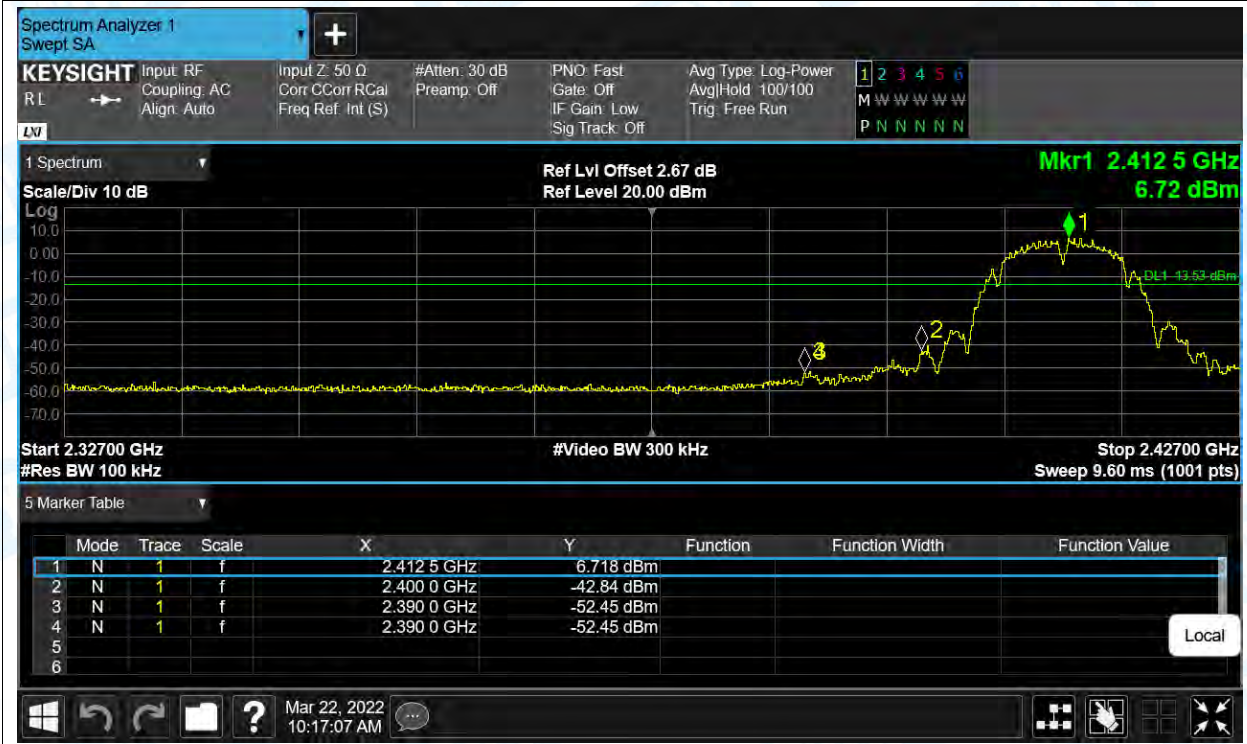
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|---------|-----------------|---------|-----------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | -58.93 | -20 | Pass |
| NVNT | b | 2462 | Ant1 | -57.5 | -20 | Pass |
| NVNT | g | 2412 | Ant1 | -45.47 | -20 | Pass |
| NVNT | g | 2462 | Ant1 | -41.8 | -20 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | -45.04 | -20 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | -42.36 | -20 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | -38.26 | -20 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | -32.26 | -20 | Pass |

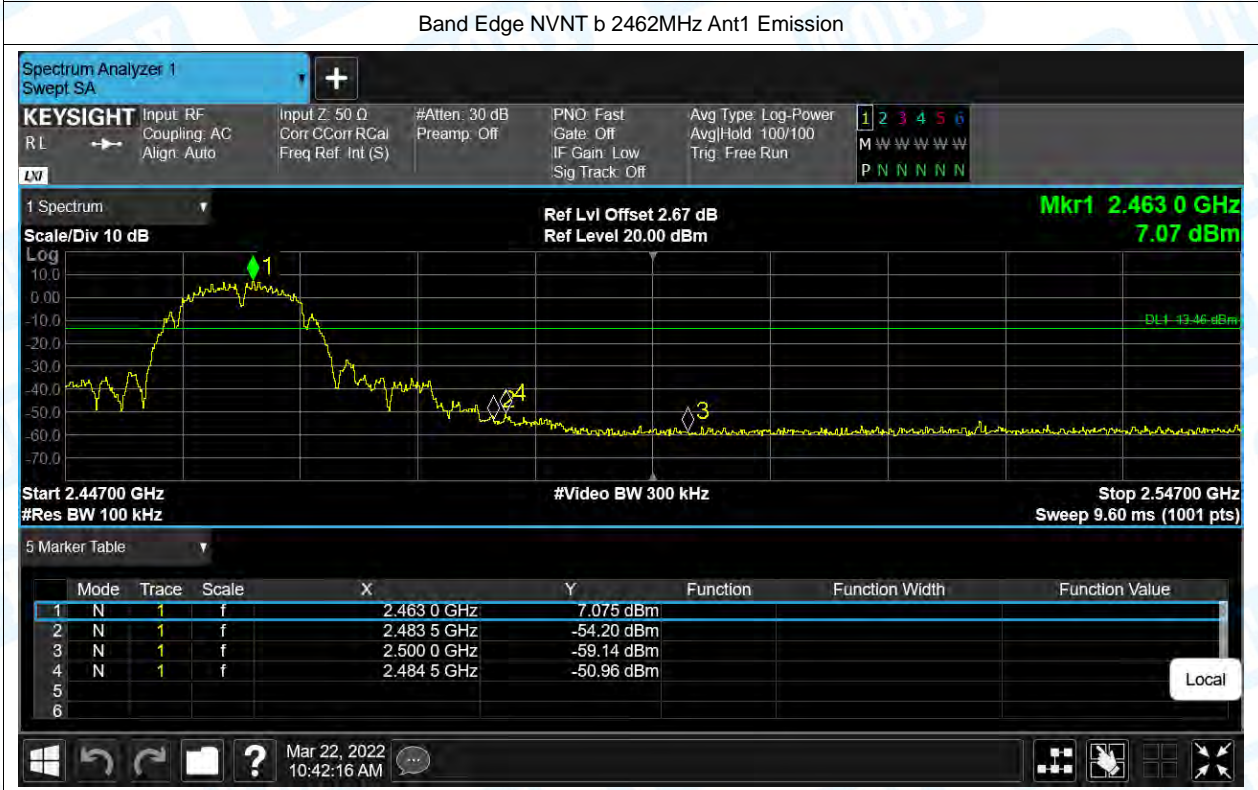
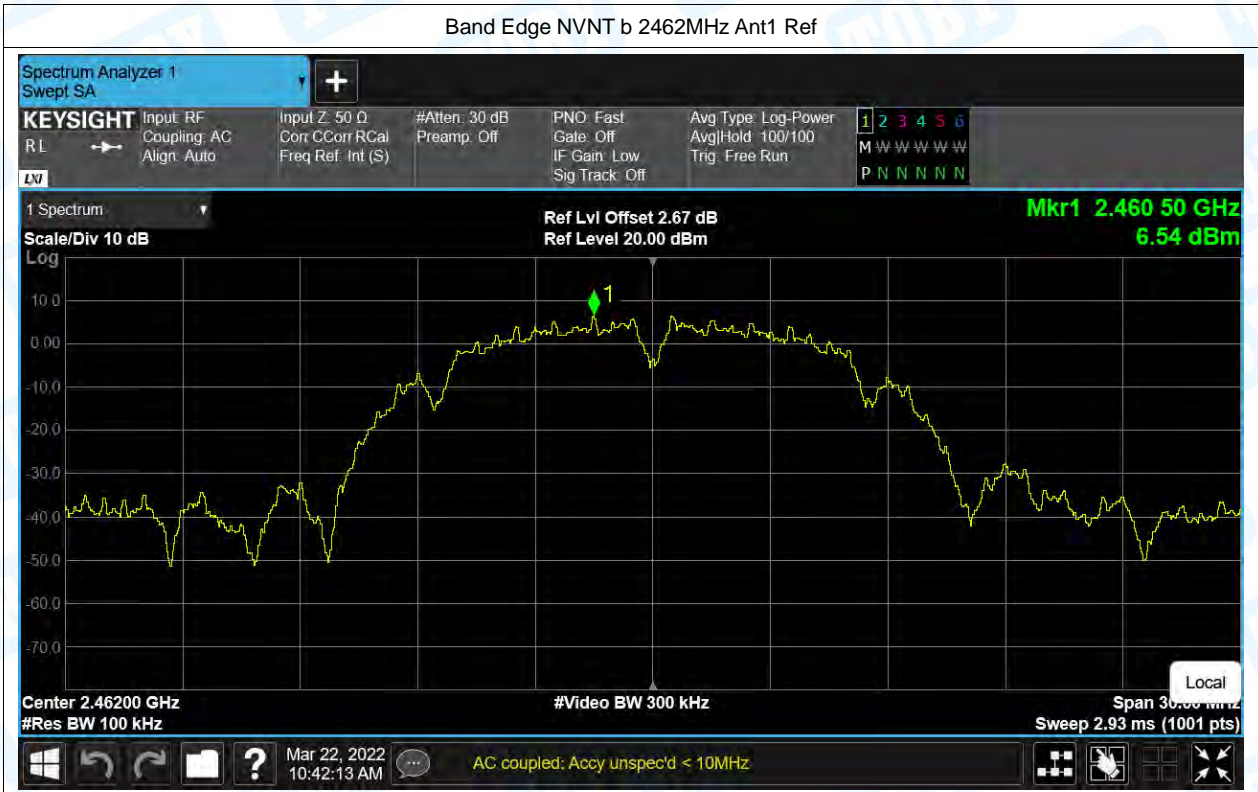
Test Graphs

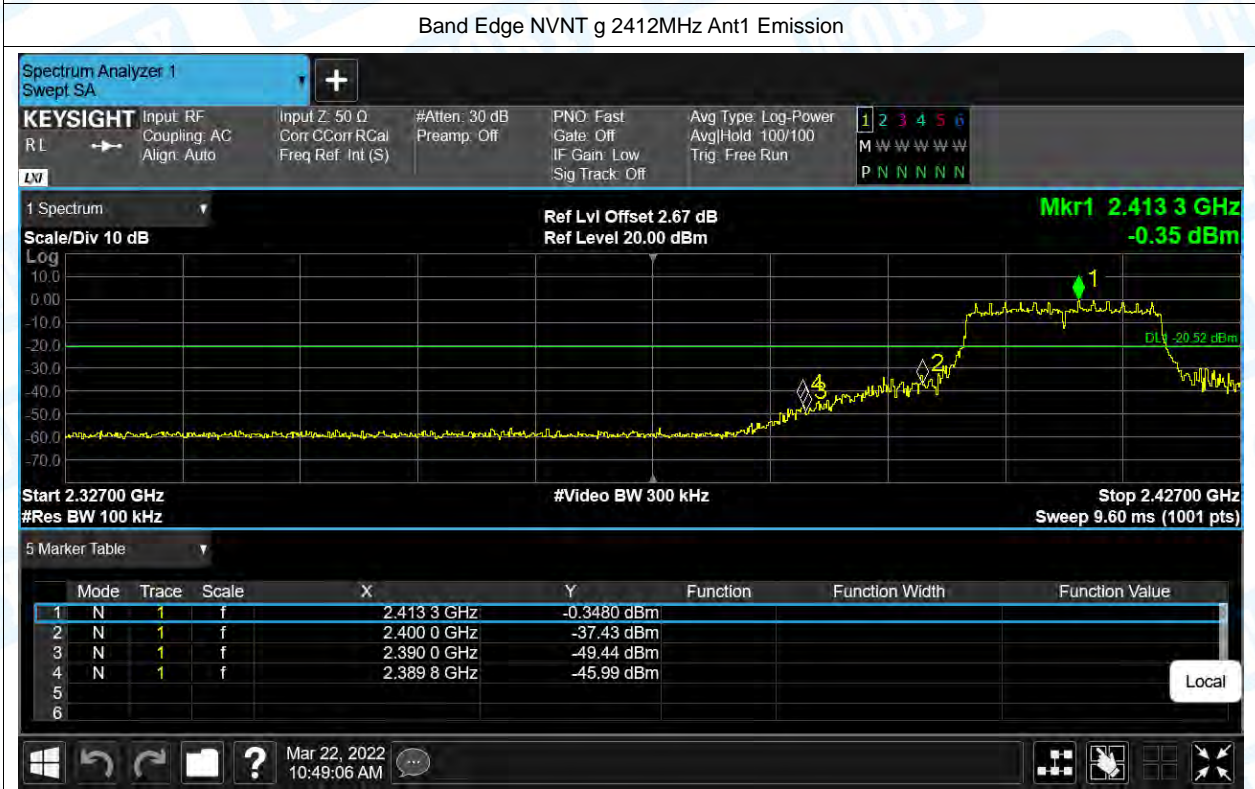
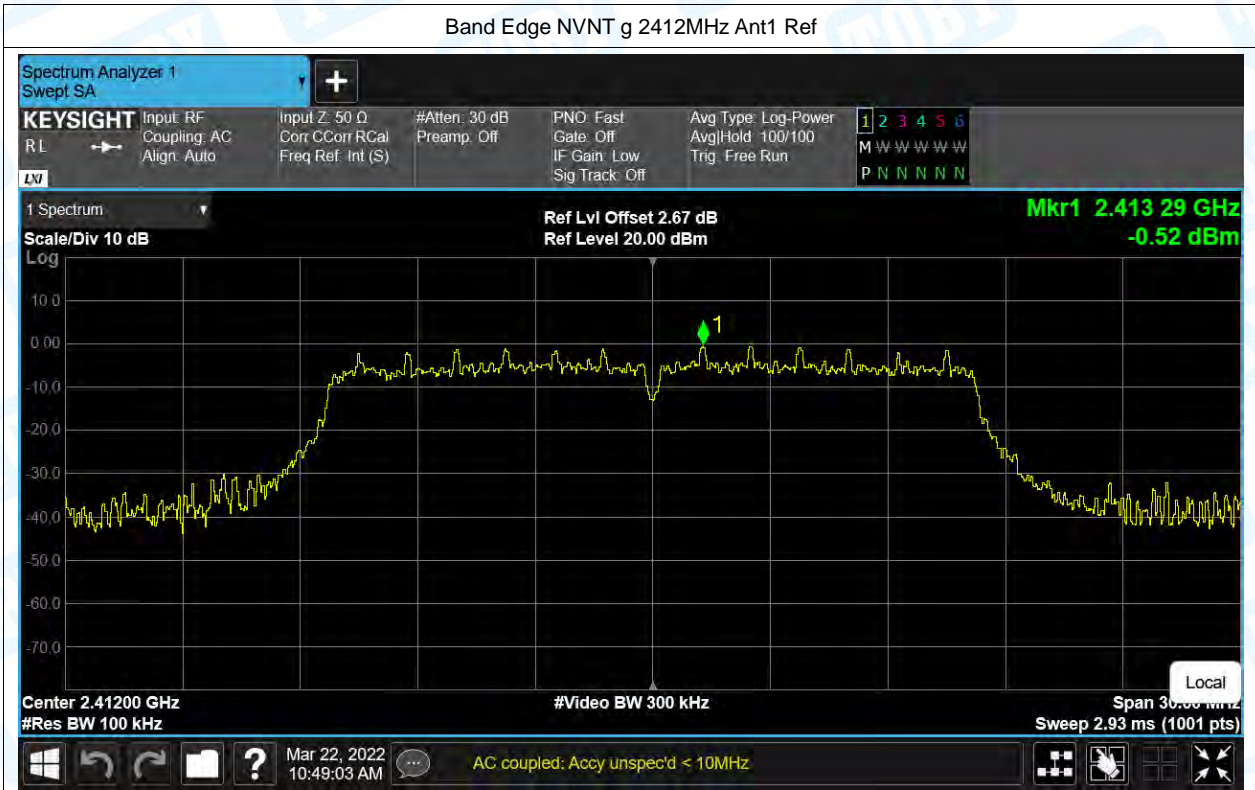
Band Edge NVNT b 2412MHz Ant1 Ref

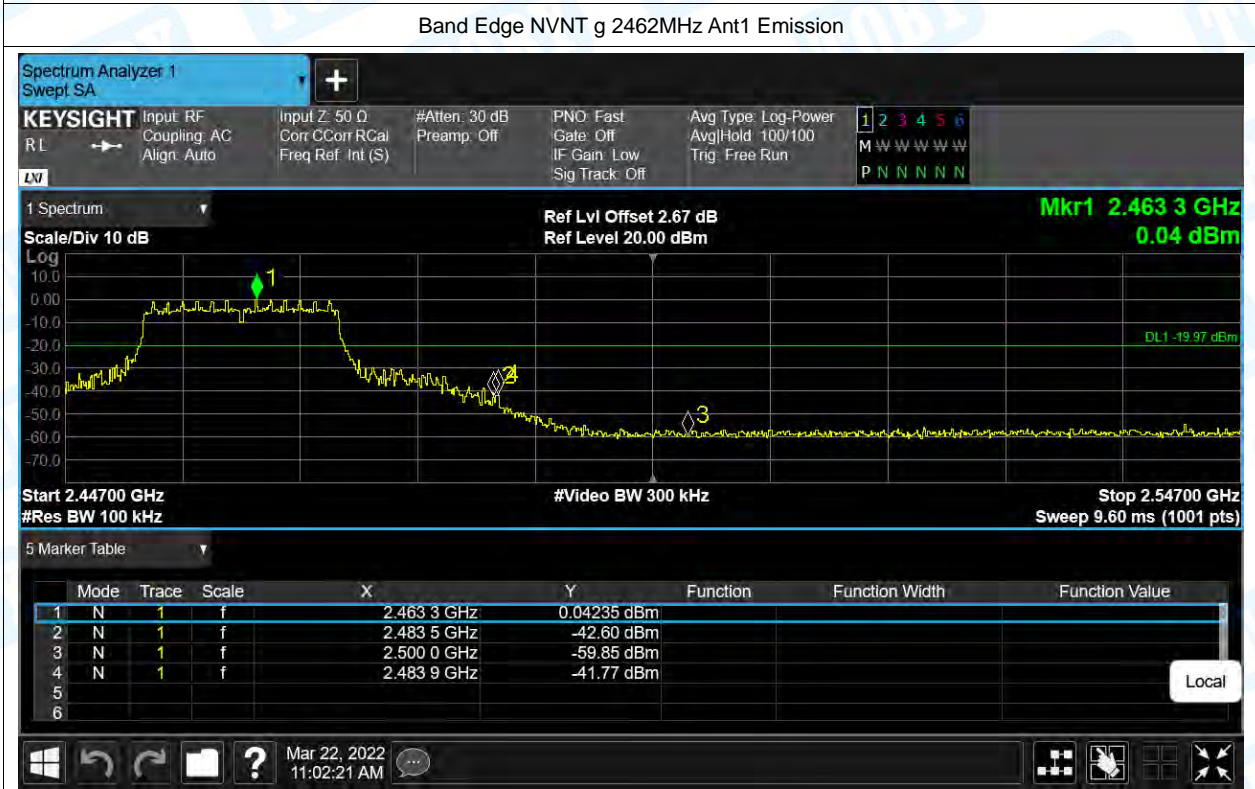
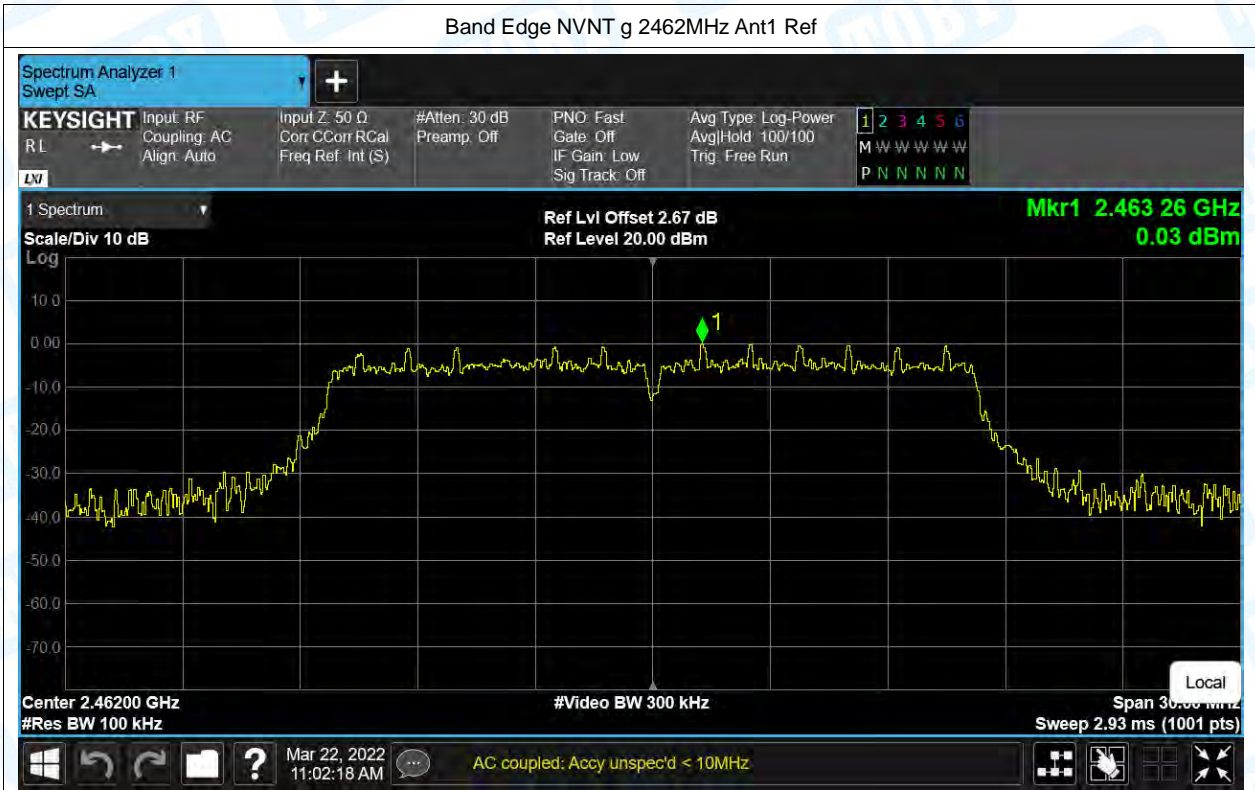


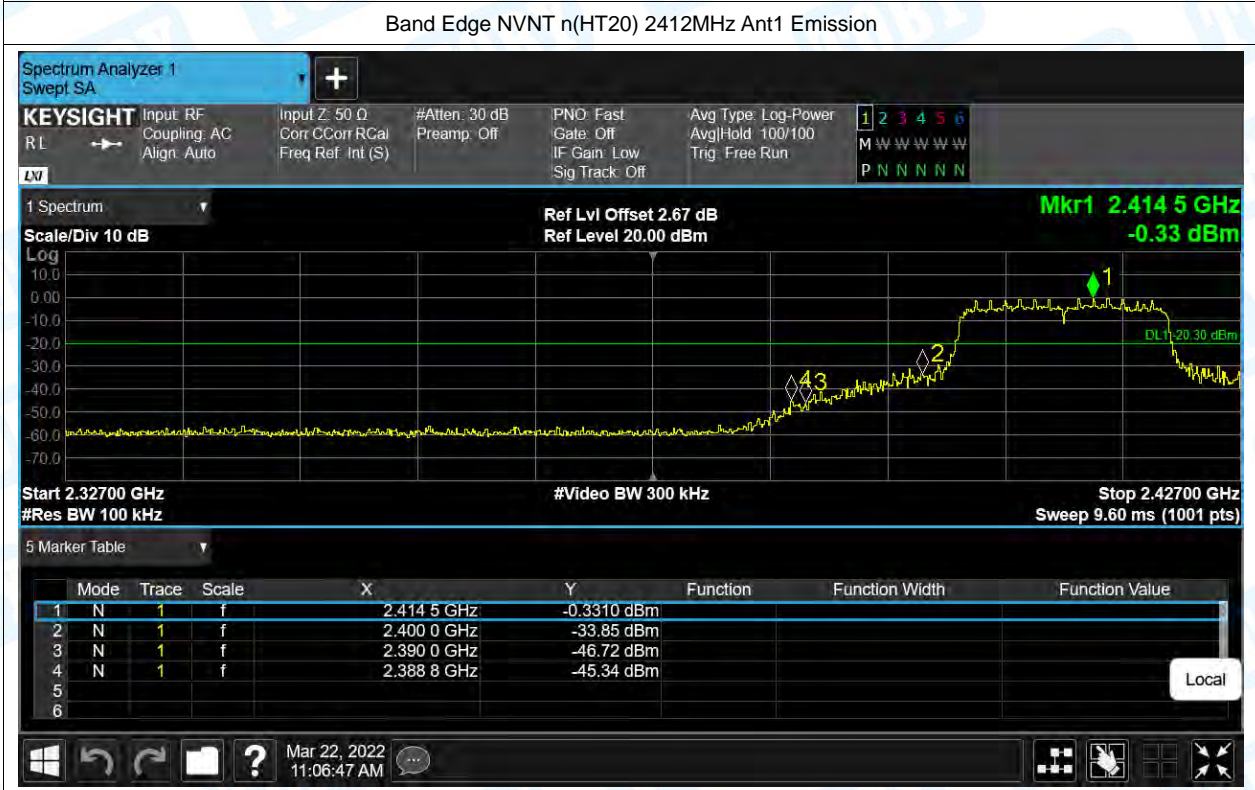
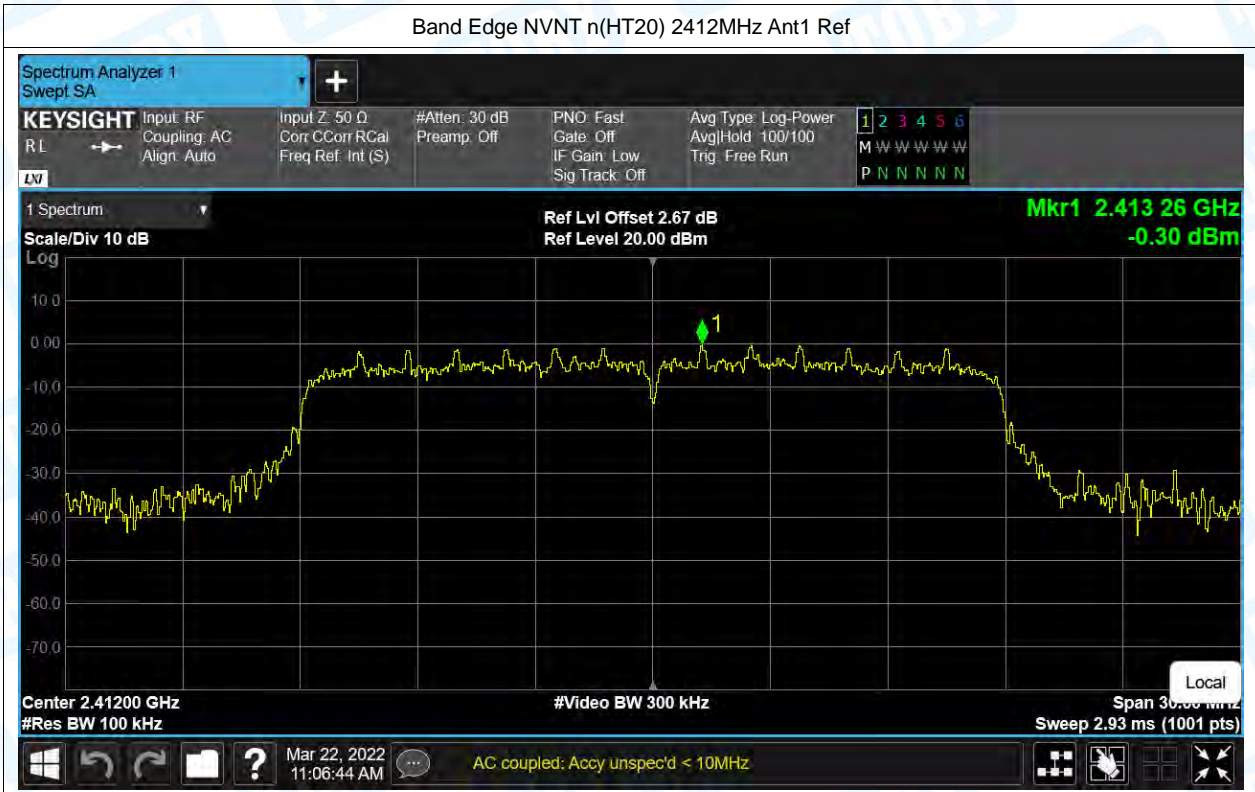
Band Edge NVNT b 2412MHz Ant1 Emission

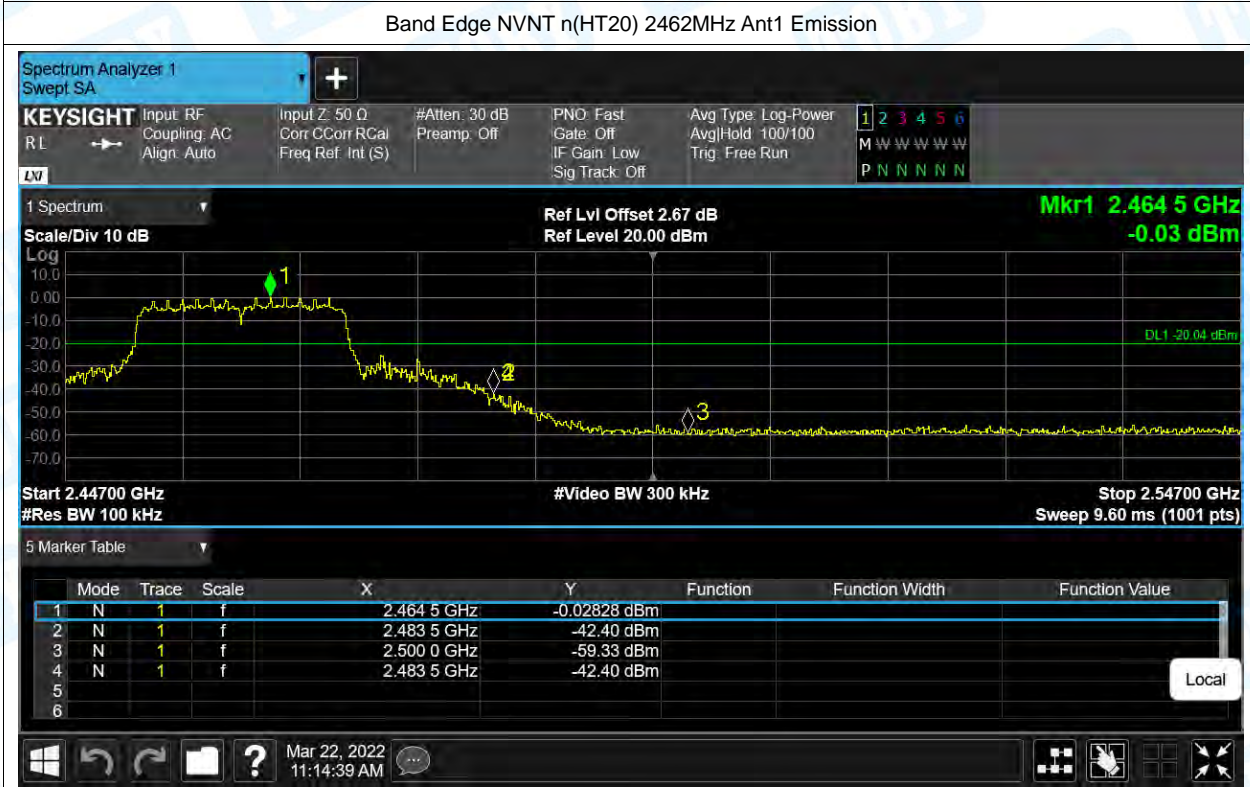
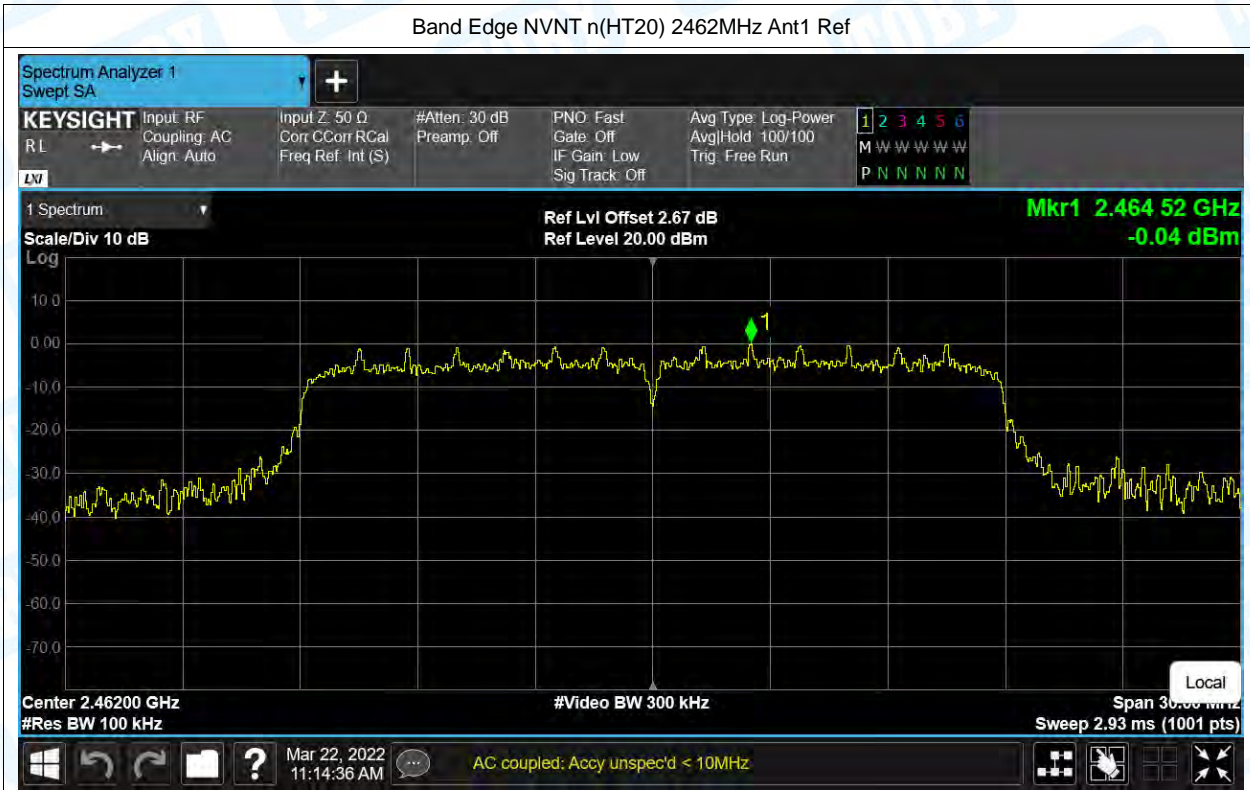


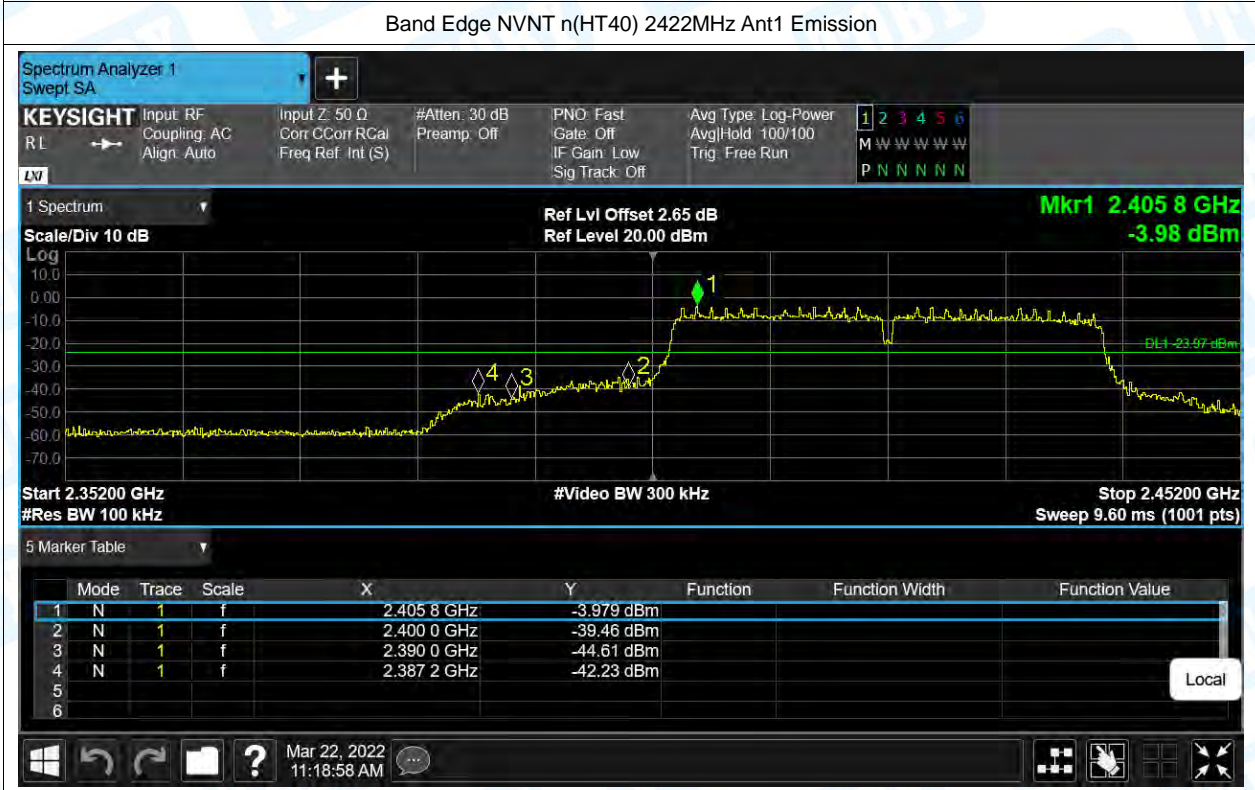
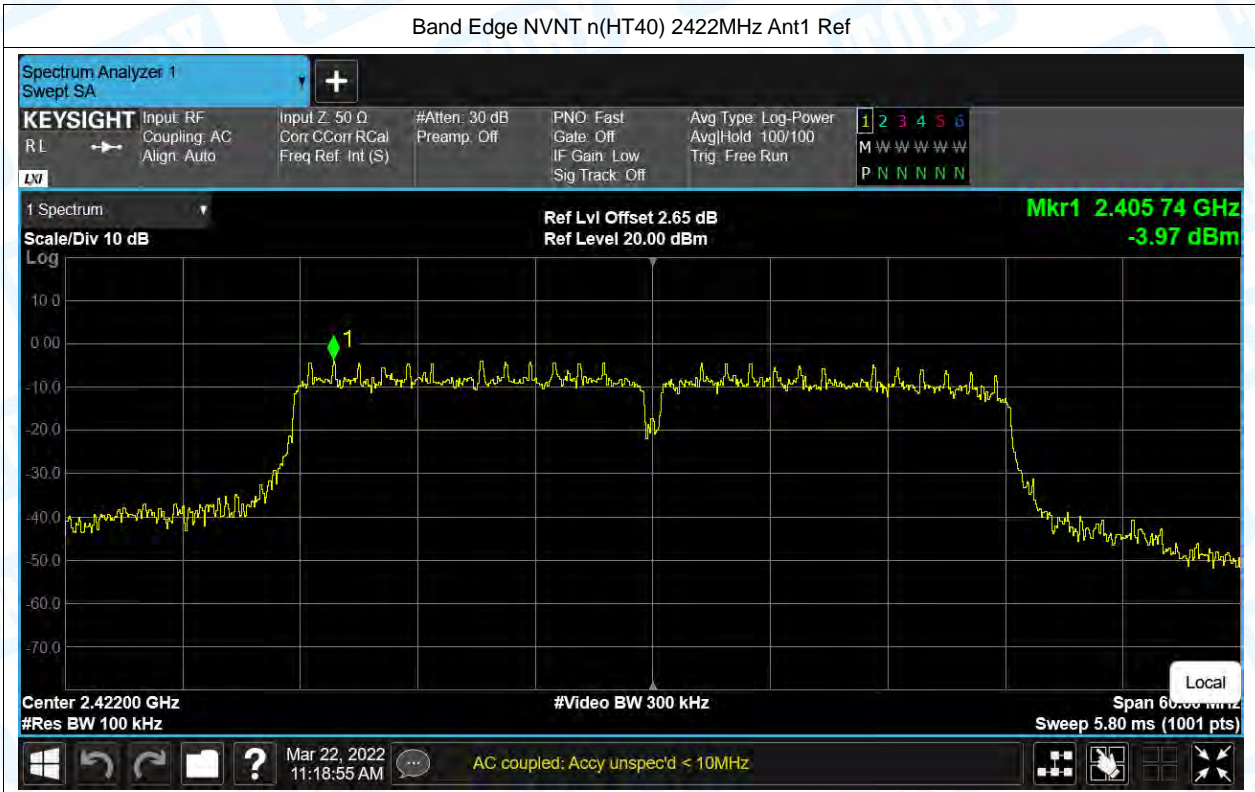


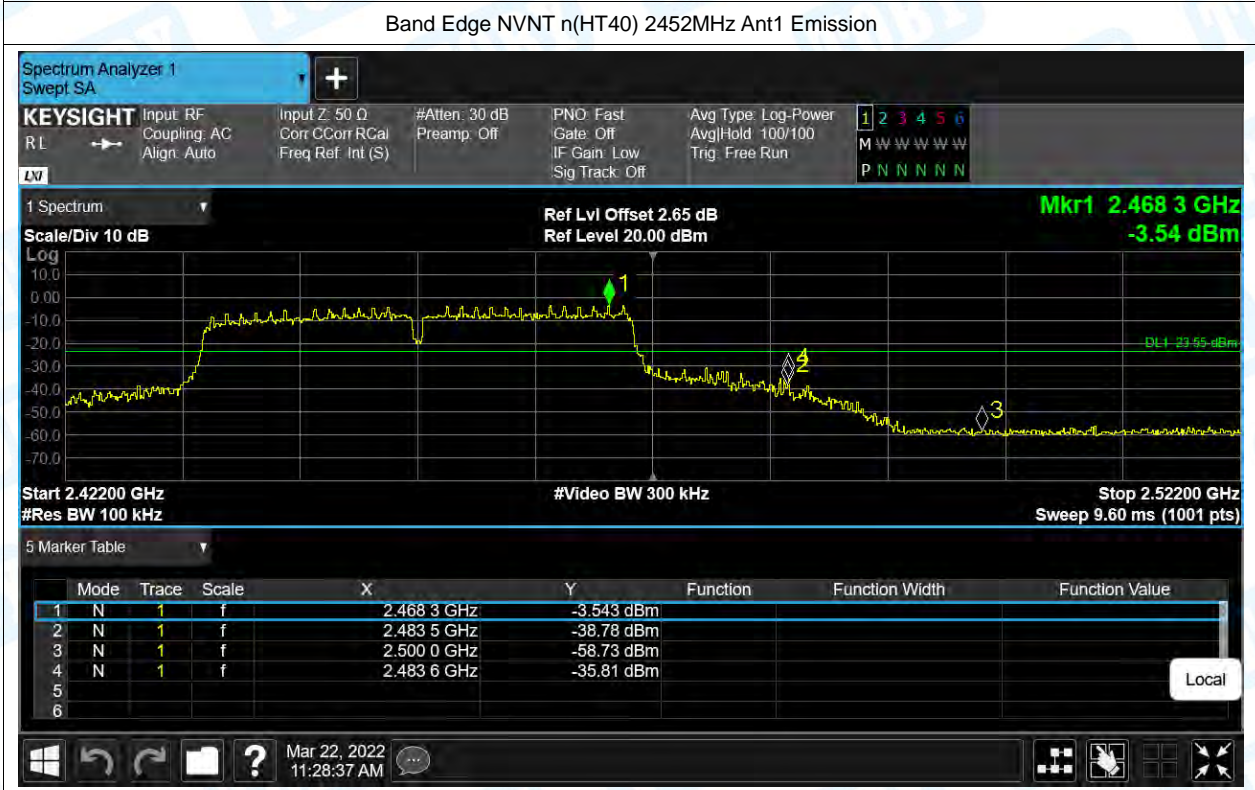












7. Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|---------|-----------------|---------|-----------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | -48.85 | -20 | Pass |
| NVNT | b | 2437 | Ant1 | -52.61 | -20 | Pass |
| NVNT | b | 2462 | Ant1 | -49.27 | -20 | Pass |
| NVNT | g | 2412 | Ant1 | -42.46 | -20 | Pass |
| NVNT | g | 2437 | Ant1 | -42.52 | -20 | Pass |
| NVNT | g | 2462 | Ant1 | -41.83 | -20 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | -41.98 | -20 | Pass |
| NVNT | n(HT20) | 2437 | Ant1 | -42.77 | -20 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | -42.23 | -20 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | -38.42 | -20 | Pass |
| NVNT | n(HT40) | 2437 | Ant1 | -39.31 | -20 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | -38.61 | -20 | Pass |

Test Graphs

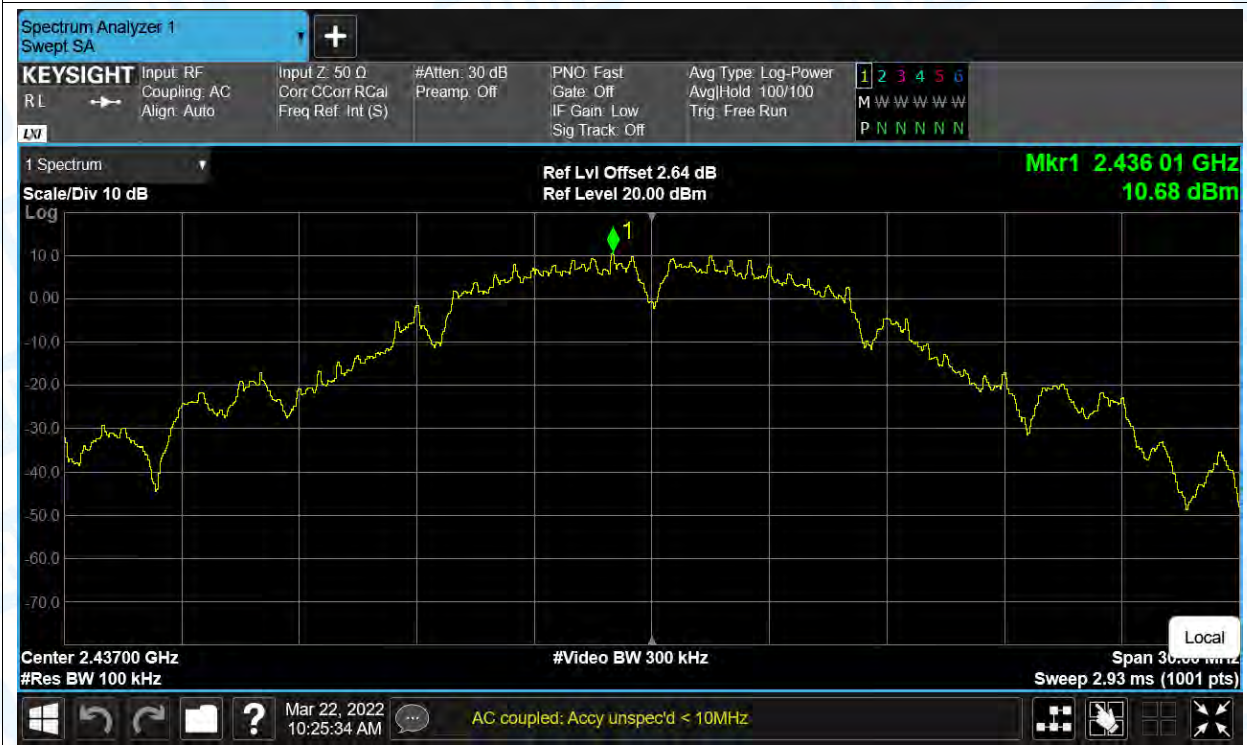
Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



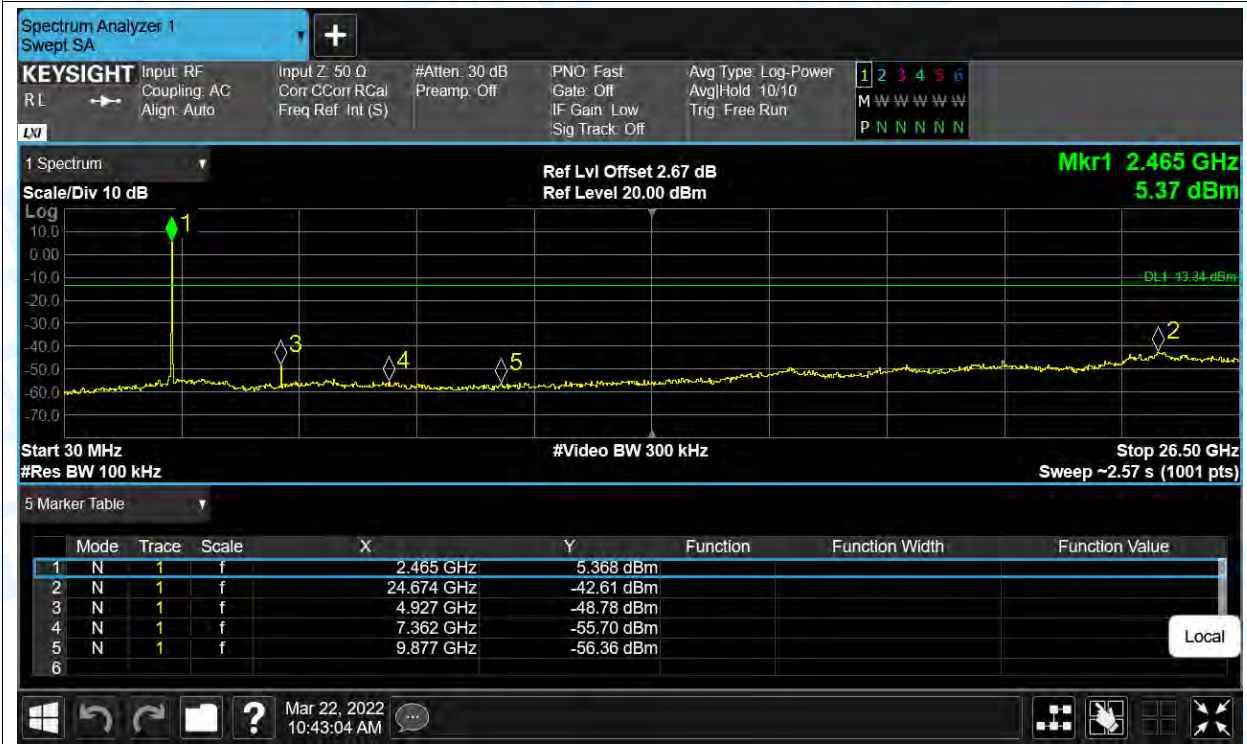
Tx. Spurious NVNT b 2437MHz Ant1 Emission

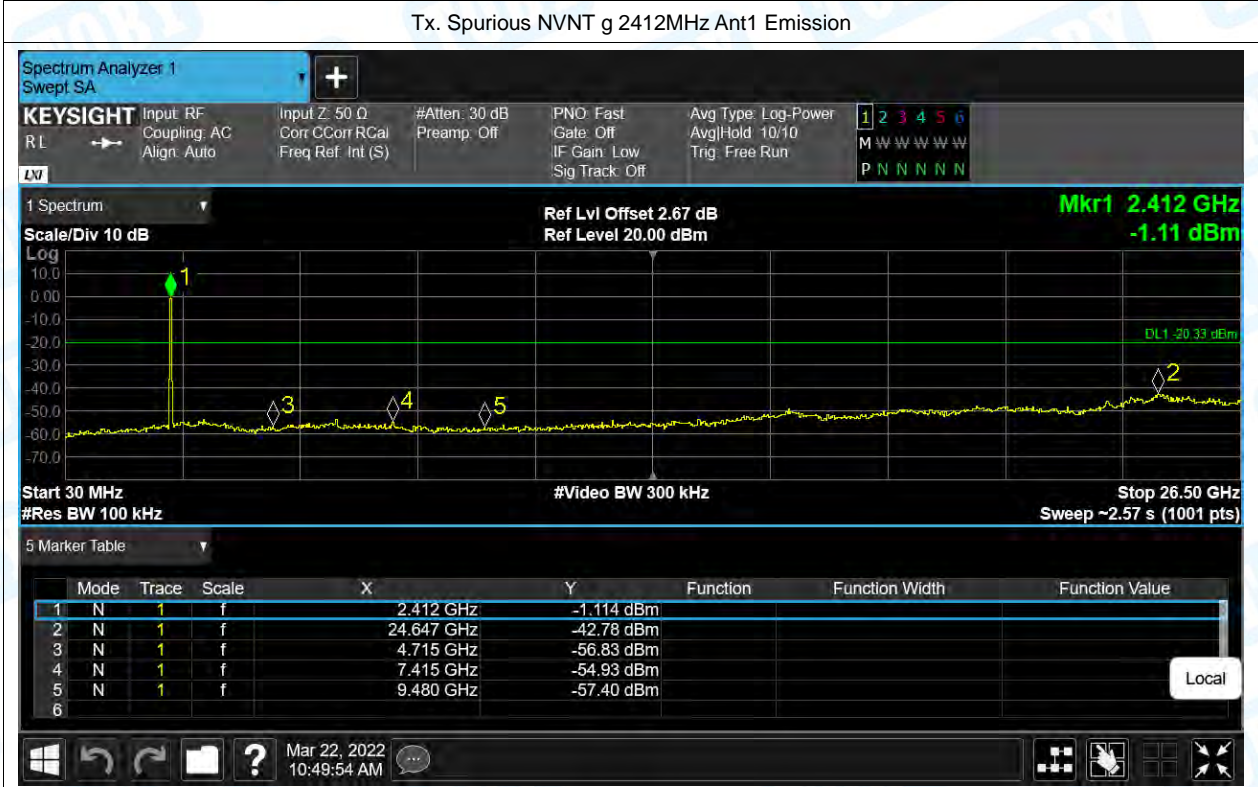
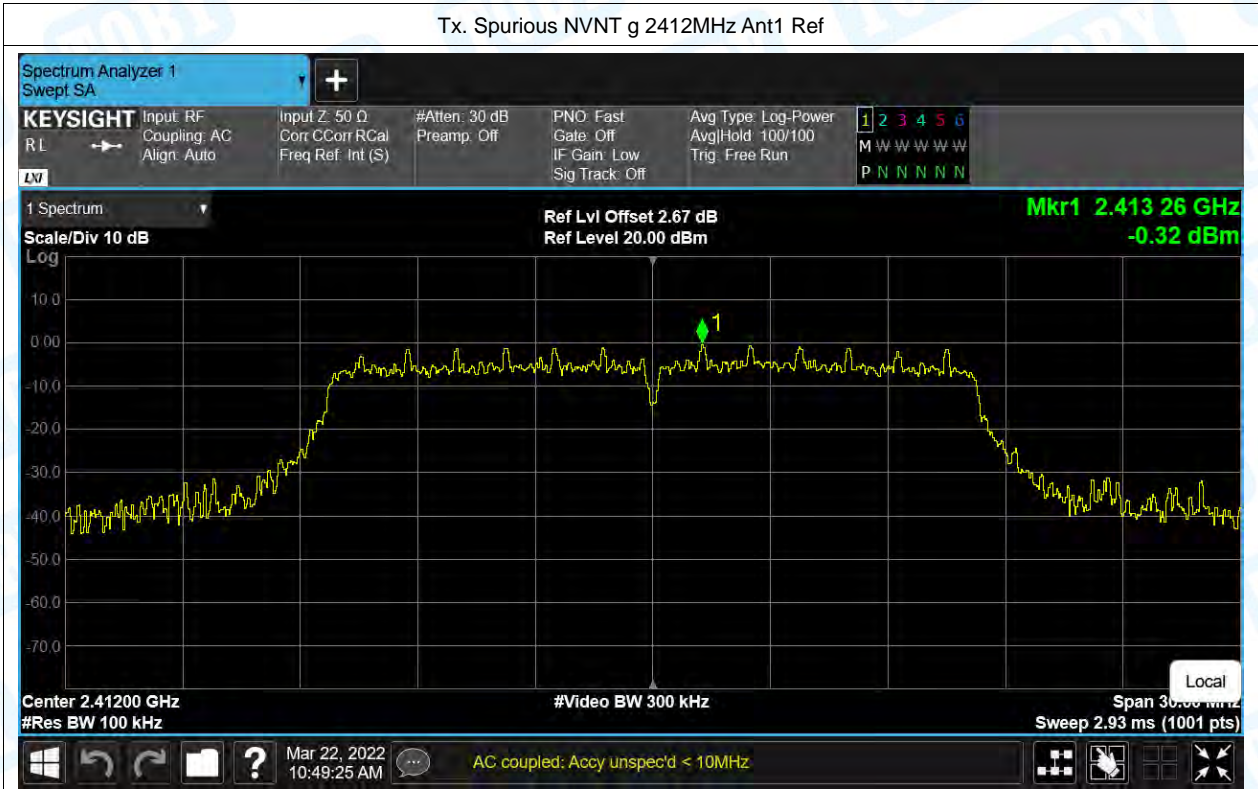


Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission

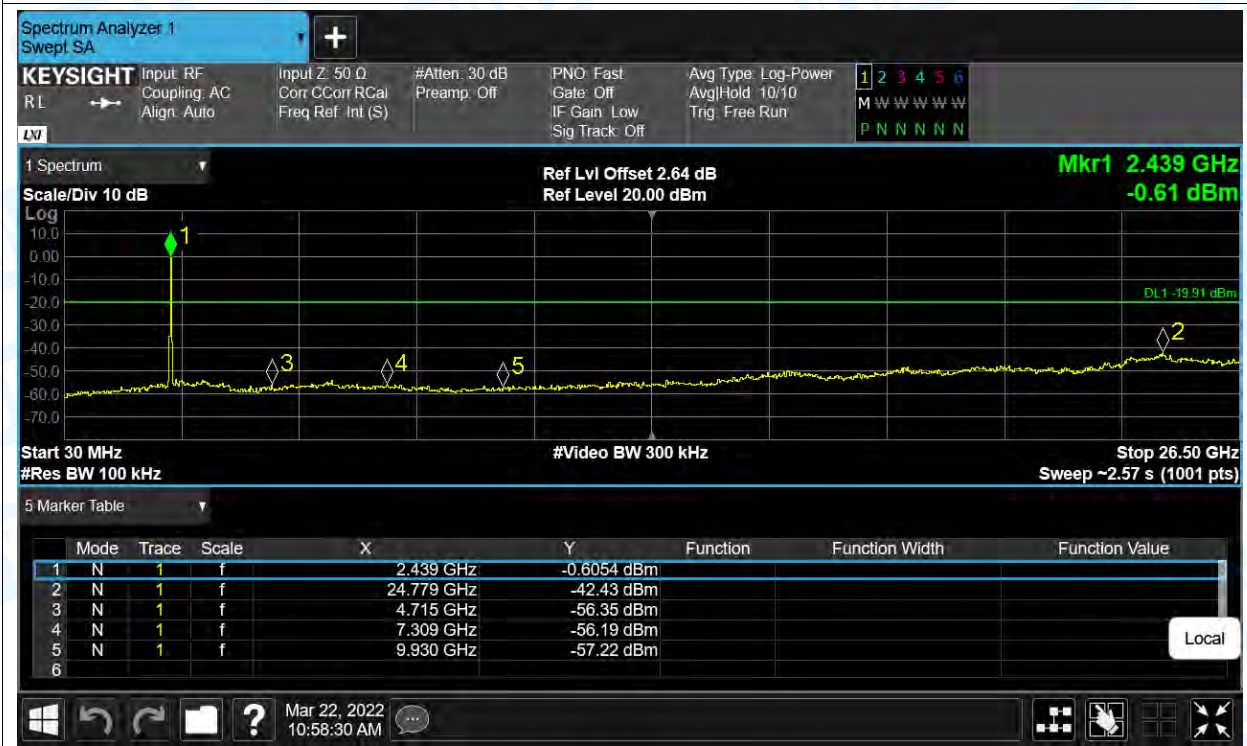




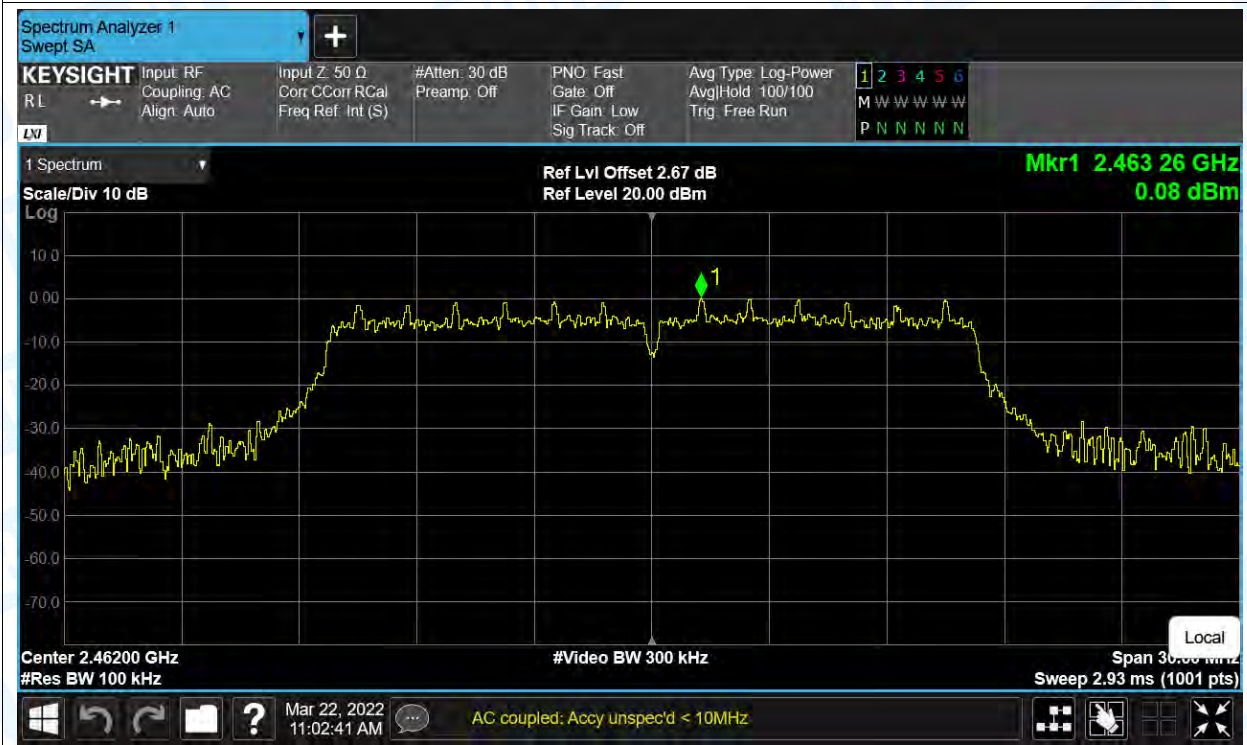
Tx. Spurious NVNT g 2437MHz Ant1 Ref



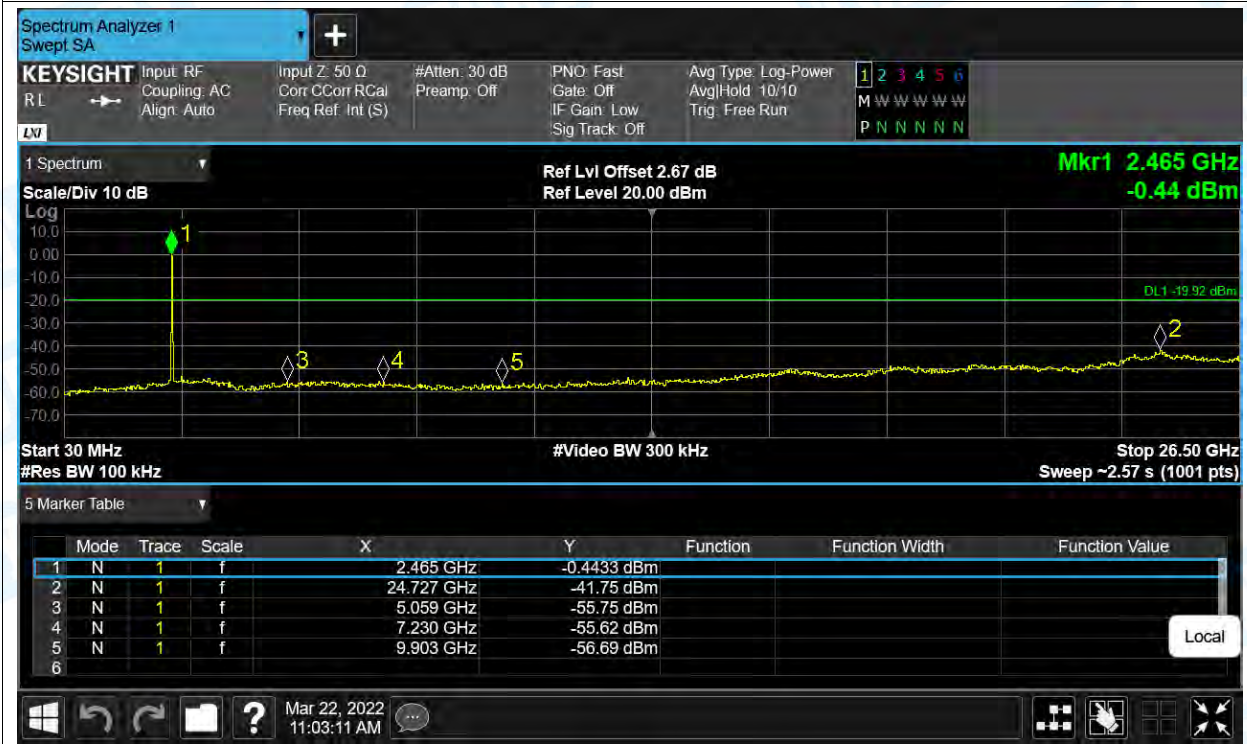
Tx. Spurious NVNT g 2437MHz Ant1 Emission



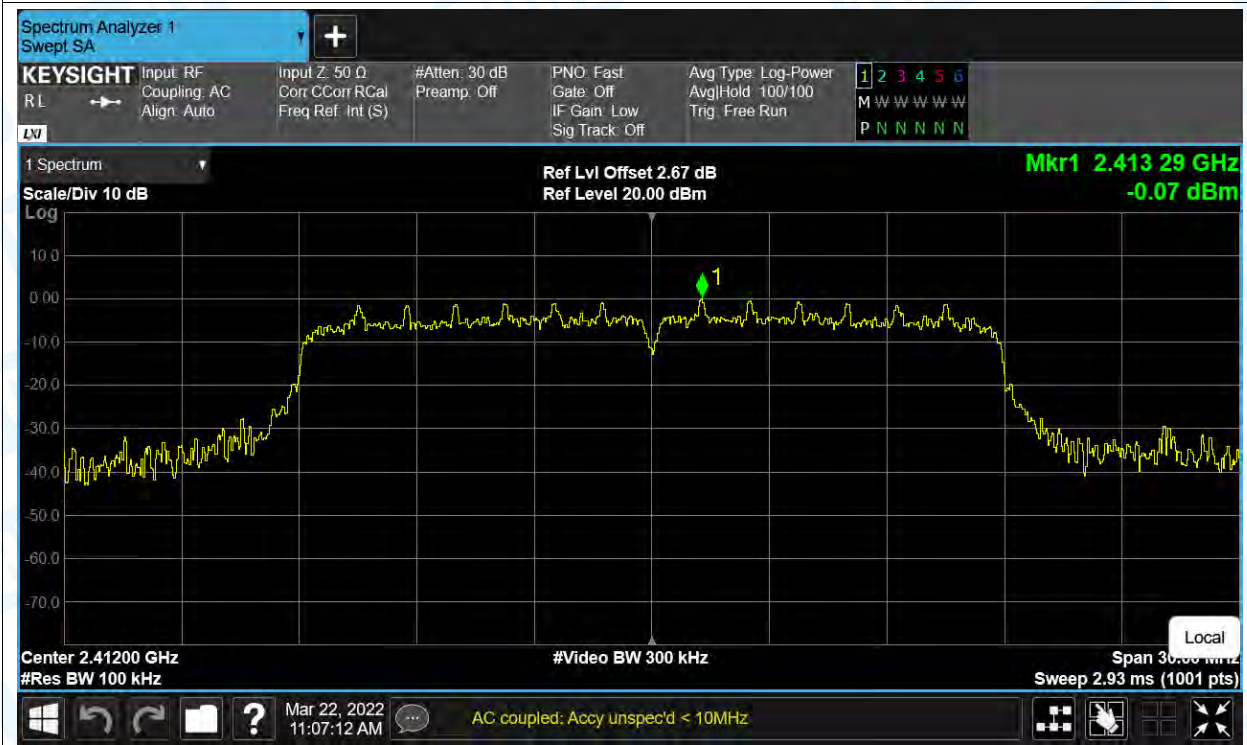
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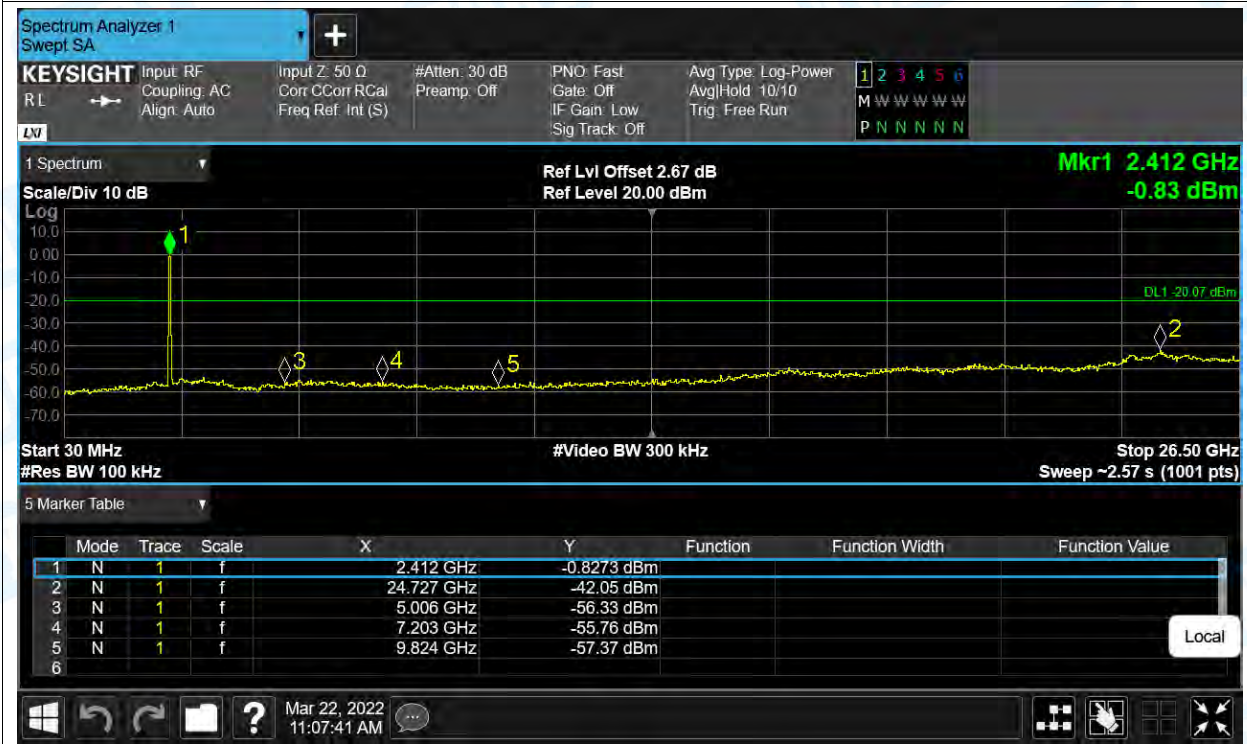
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission

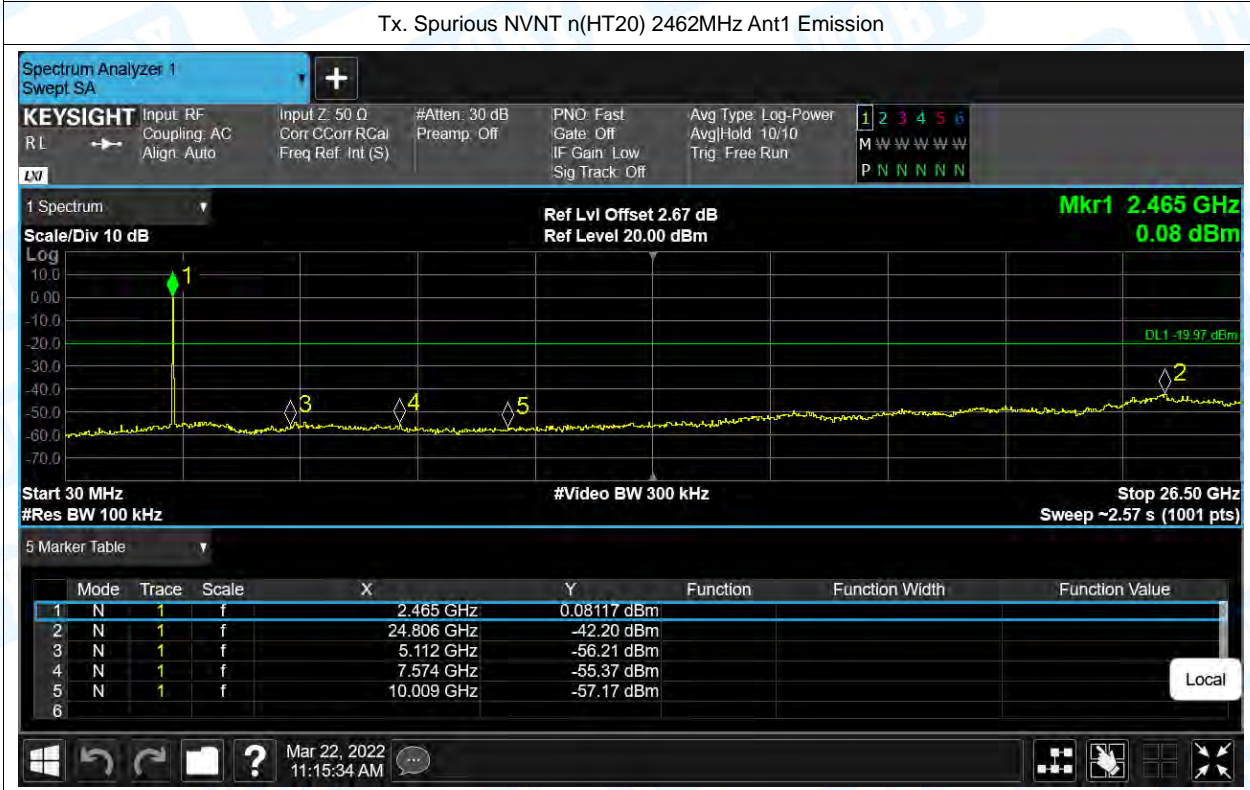
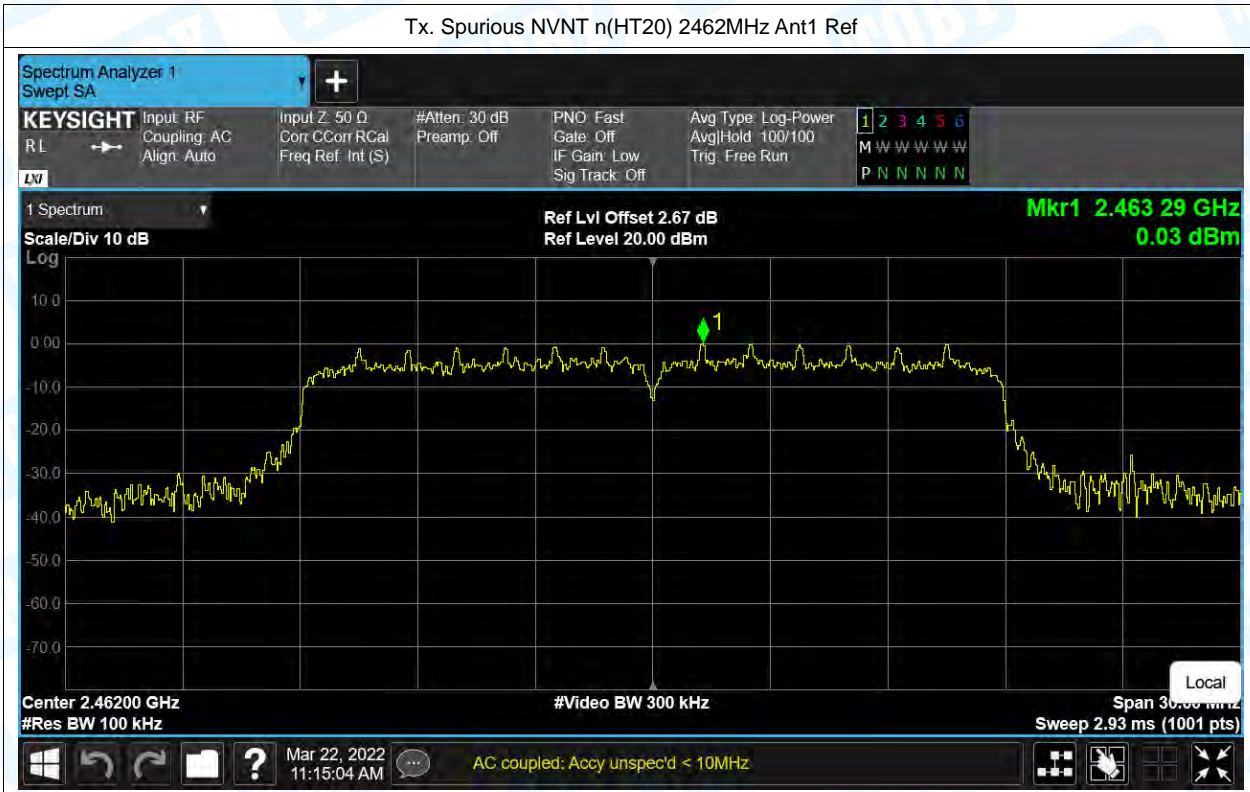


Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission





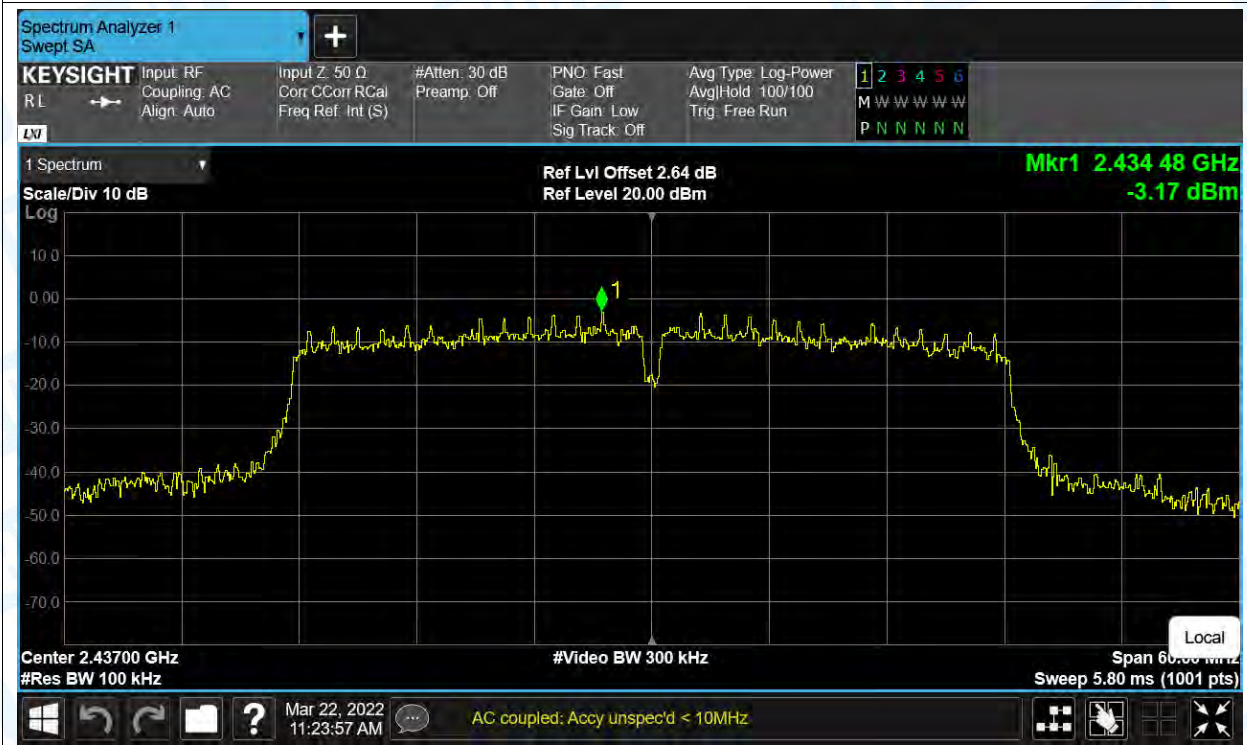
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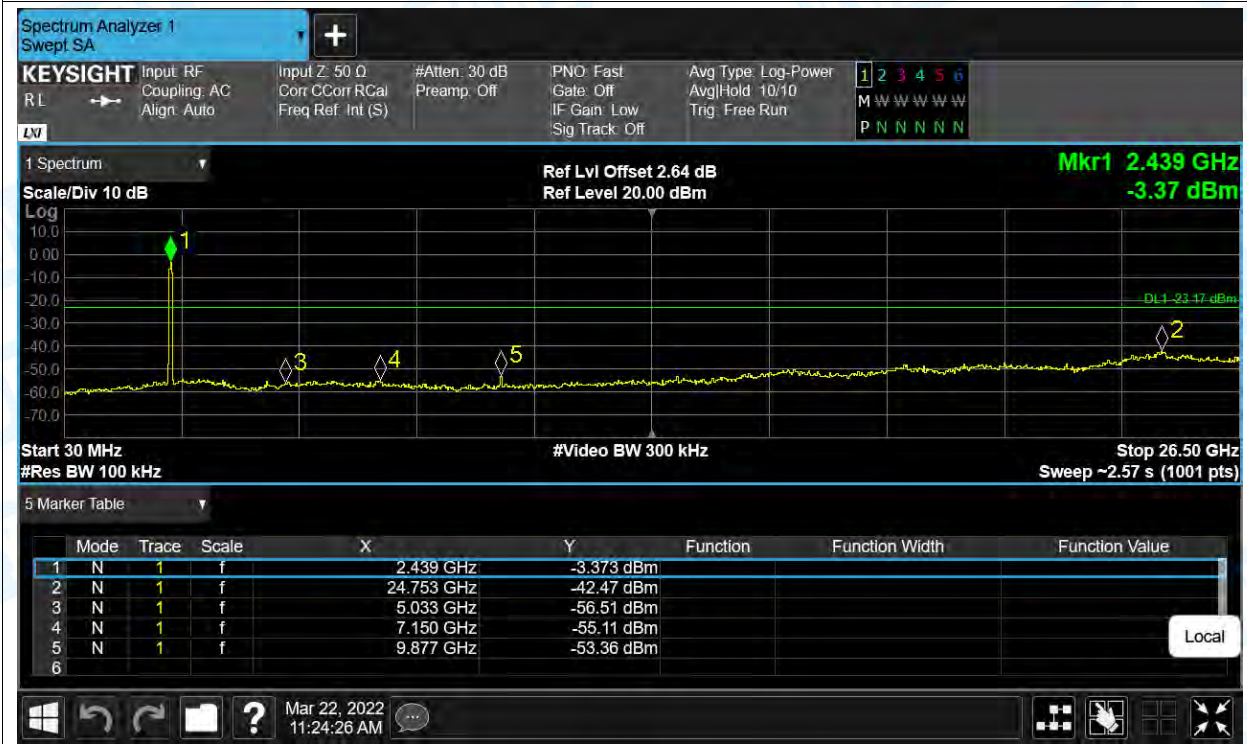
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Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



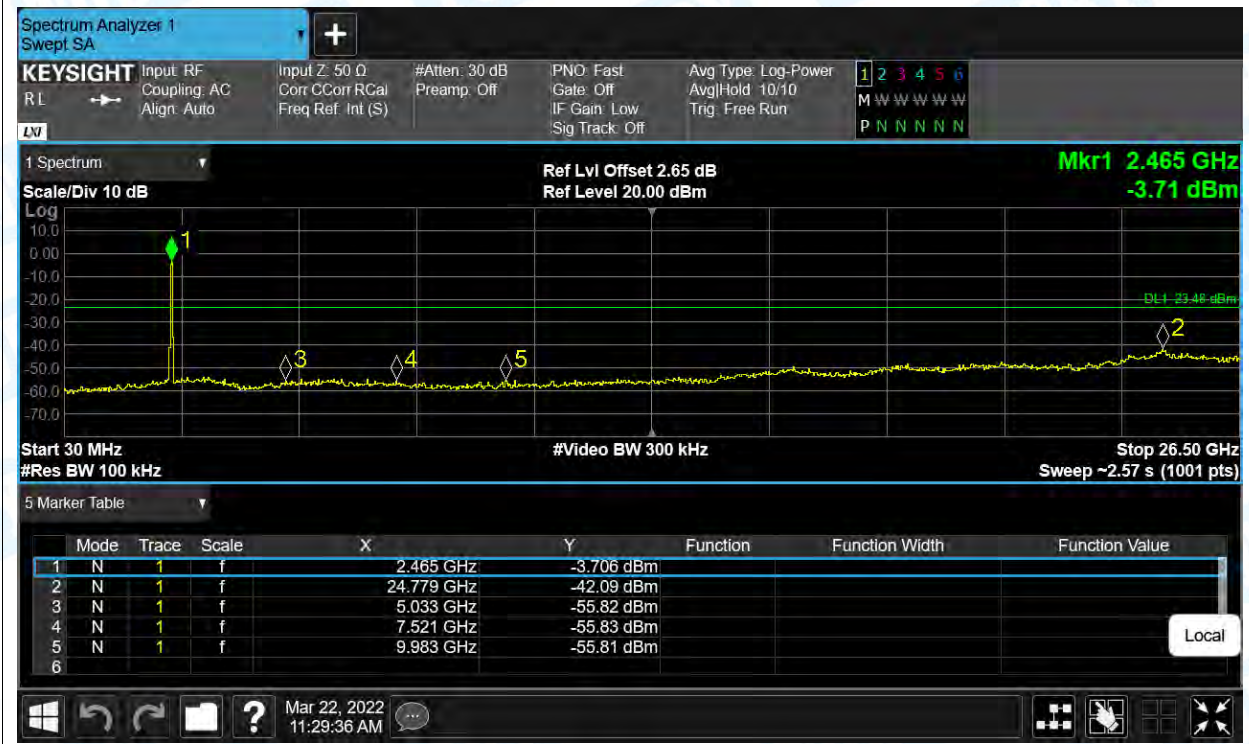
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Ref



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission



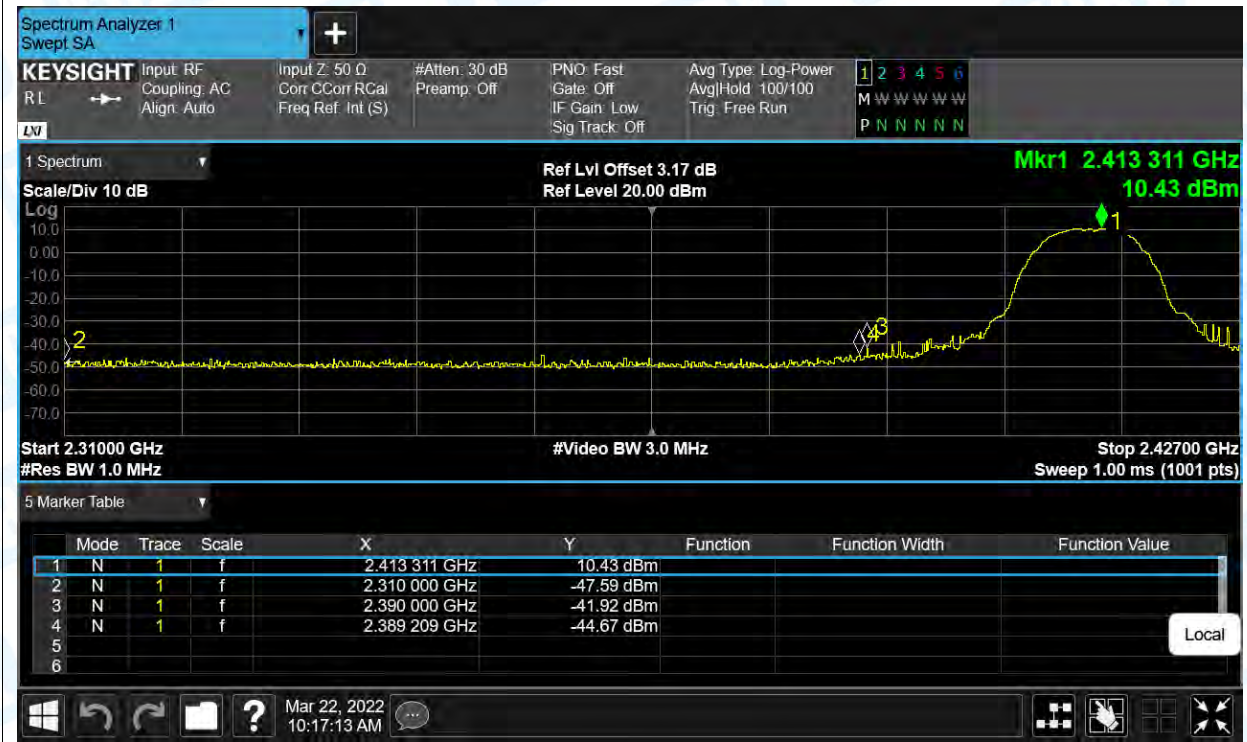
8.Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|---------|-----------------|---------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT | b | 2412 | Ant1 | 2310 | -47.59 | 2 | 49.67 | Peak | 74 | Pass |
| NVNT | b | 2412 | Ant1 | 2310 | -58.11 | 2 | 39.15 | Average | 54 | Pass |
| NVNT | b | 2412 | Ant1 | 2389.209 | -44.67 | 2 | 52.59 | Peak | 74 | Pass |
| NVNT | b | 2412 | Ant1 | 2389.911 | -54.05 | 2 | 43.21 | Average | 54 | Pass |
| NVNT | b | 2412 | Ant1 | 2390 | -41.92 | 2 | 55.34 | Peak | 74 | Pass |
| NVNT | b | 2412 | Ant1 | 2390 | -53.79 | 2 | 43.47 | Average | 54 | Pass |
| NVNT | b | 2462 | Ant1 | 2483.5 | -37.66 | 2 | 59.6 | Peak | 74 | Pass |
| NVNT | b | 2462 | Ant1 | 2483.5 | -52.73 | 2 | 44.53 | Average | 54 | Pass |
| NVNT | b | 2462 | Ant1 | 2483.729 | -35.38 | 2 | 61.88 | Peak | 74 | Pass |
| NVNT | b | 2462 | Ant1 | 2484.683 | -51.8 | 2 | 45.46 | Average | 54 | Pass |
| NVNT | b | 2462 | Ant1 | 2500 | -48.22 | 2 | 49.04 | Peak | 74 | Pass |
| NVNT | b | 2462 | Ant1 | 2500 | -57.78 | 2 | 39.48 | Average | 54 | Pass |
| NVNT | b | 2472 | Ant1 | 2500 | -57.91 | 2 | 39.35 | Average | 54 | Pass |
| NVNT | g | 2412 | Ant1 | 2310 | -49.38 | 2 | 47.88 | Peak | 74 | Pass |
| NVNT | g | 2412 | Ant1 | 2310 | -57.42 | 2 | 39.84 | Average | 54 | Pass |
| NVNT | g | 2412 | Ant1 | 2389.443 | -30.8 | 2 | 66.46 | Peak | 74 | Pass |
| NVNT | g | 2412 | Ant1 | 2389.794 | -50.78 | 2 | 46.48 | Average | 54 | Pass |
| NVNT | g | 2412 | Ant1 | 2390 | -34.33 | 2 | 62.93 | Peak | 74 | Pass |
| NVNT | g | 2412 | Ant1 | 2390 | -50.53 | 2 | 46.73 | Average | 54 | Pass |
| NVNT | g | 2462 | Ant1 | 2483.5 | -31.01 | 2 | 66.25 | Peak | 74 | Pass |
| NVNT | g | 2462 | Ant1 | 2483.5 | -48.81 | 2 | 48.45 | Average | 54 | Pass |
| NVNT | g | 2462 | Ant1 | 2484.683 | -30.87 | 2 | 66.39 | Peak | 74 | Pass |
| NVNT | g | 2462 | Ant1 | 2483.782 | -48.53 | 2 | 48.73 | Average | 54 | Pass |
| NVNT | g | 2462 | Ant1 | 2500 | -48.03 | 2 | 49.23 | Peak | 74 | Pass |
| NVNT | g | 2462 | Ant1 | 2500 | -57.06 | 2 | 40.2 | Average | 54 | Pass |
| NVNT | g | 2472 | Ant1 | 2483.5 | -25.4 | 2 | 71.86 | Peak | 74 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | 2310 | -49.8 | 2 | 47.46 | Peak | 74 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | 2310 | -57.12 | 2 | 40.14 | Average | 54 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | 2389.56 | -32.88 | 2 | 64.38 | Peak | 74 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | 2389.326 | -49.78 | 2 | 47.48 | Average | 54 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | 2390 | -34.4 | 2 | 62.86 | Peak | 74 | Pass |
| NVNT | n(HT20) | 2412 | Ant1 | 2390 | -49.96 | 2 | 47.3 | Average | 54 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | 2483.5 | -32.81 | 2 | 64.45 | Peak | 74 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | 2483.5 | -52.07 | 2 | 45.19 | Average | 54 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | 2483.517 | -32.81 | 2 | 64.45 | Peak | 74 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | 2484.206 | -50.54 | 2 | 46.72 | Average | 54 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | 2500 | -47.92 | 2 | 49.34 | Peak | 74 | Pass |
| NVNT | n(HT20) | 2462 | Ant1 | 2500 | -56.78 | 2 | 40.48 | Average | 54 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | 2310 | -48.65 | 2 | 48.61 | Peak | 74 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | 2310 | -57.3 | 2 | 39.96 | Average | 54 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | 2388.952 | -31.82 | 2 | 65.44 | Peak | 74 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | 2388.384 | -49.48 | 2 | 47.78 | Average | 54 | Pass |
| NVNT | n(HT40) | 2422 | Ant1 | 2390 | -38.62 | 2 | 58.64 | Peak | 74 | Pass |

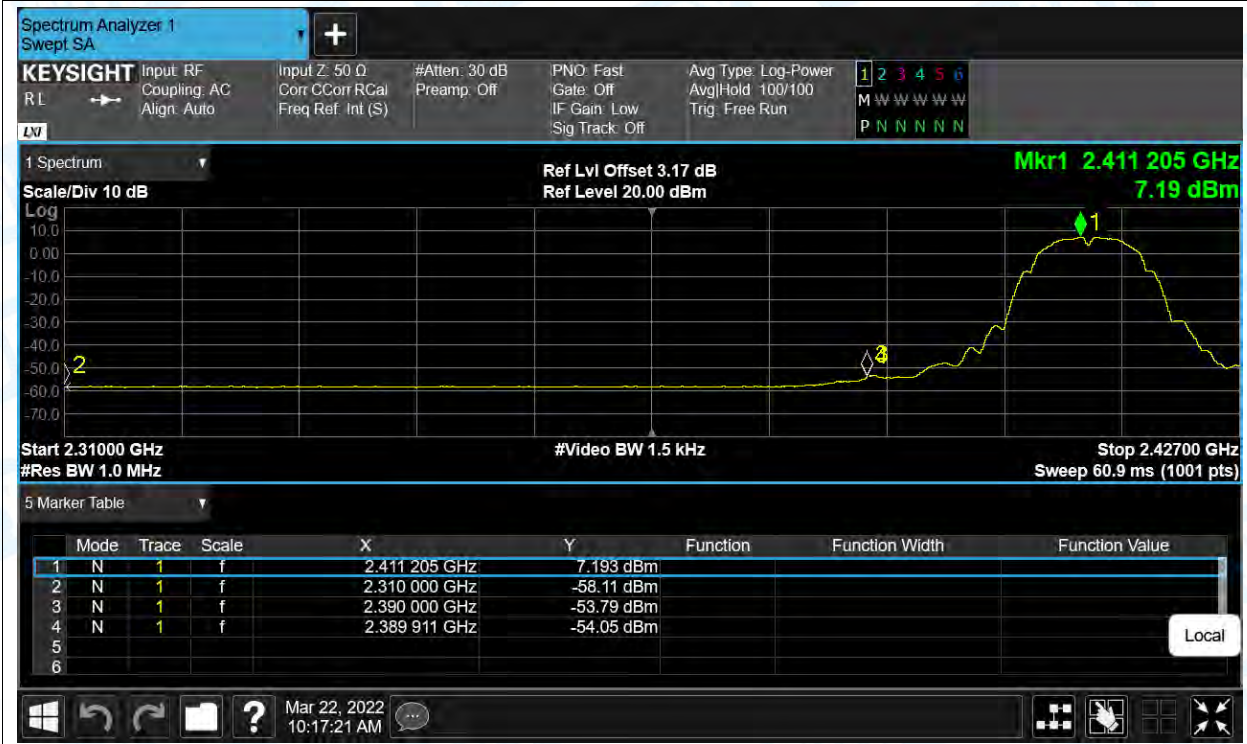
| | | | | | | | | | | |
|------|---------|------|------|----------|--------|---|-------|---------|----|------|
| NVNT | n(HT40) | 2422 | Ant1 | 2390 | -49.85 | 2 | 47.41 | Average | 54 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | 2483.5 | -39.03 | 2 | 58.23 | Peak | 74 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | 2483.5 | -50.72 | 2 | 46.54 | Average | 54 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | 2485.258 | -34.67 | 2 | 62.59 | Peak | 74 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | 2485.102 | -49.82 | 2 | 47.44 | Average | 54 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | 2500 | -48.21 | 2 | 49.05 | Peak | 74 | Pass |
| NVNT | n(HT40) | 2452 | Ant1 | 2500 | -56.31 | 2 | 40.95 | Average | 54 | Pass |

Test Graphs

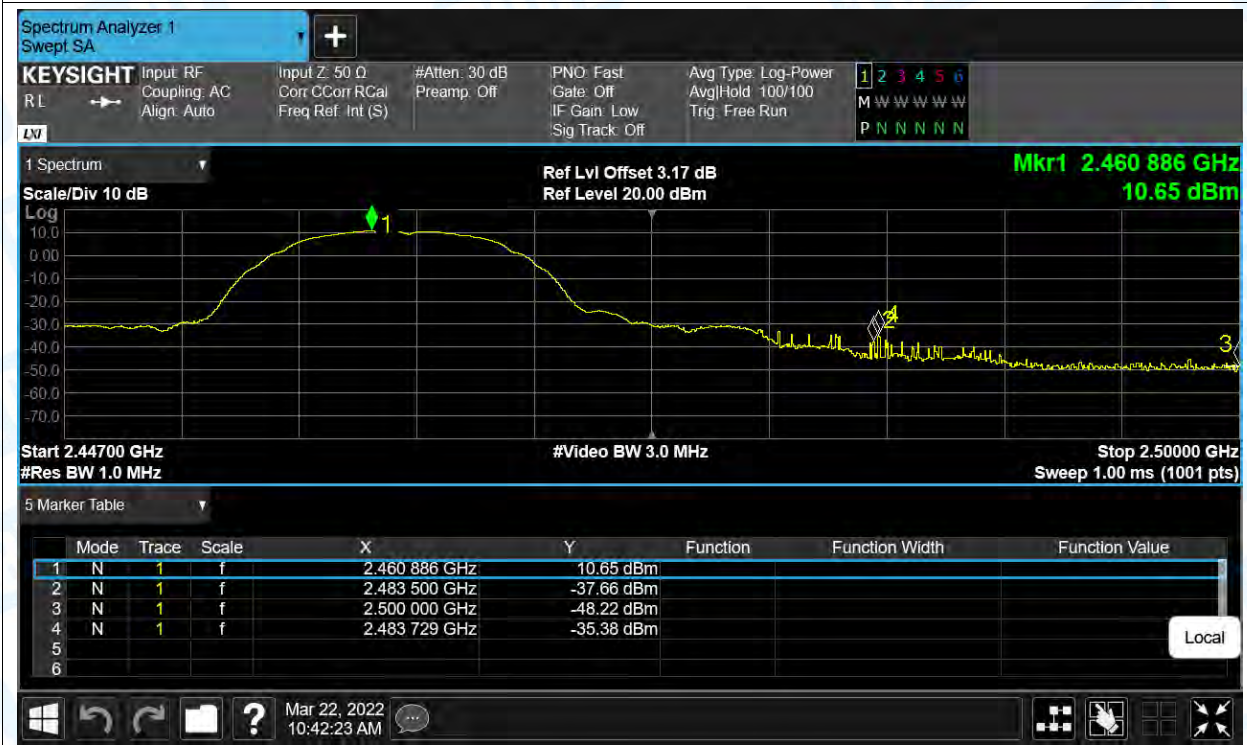
Restrict Band NVNT b 2412MHz Ant1 Peak



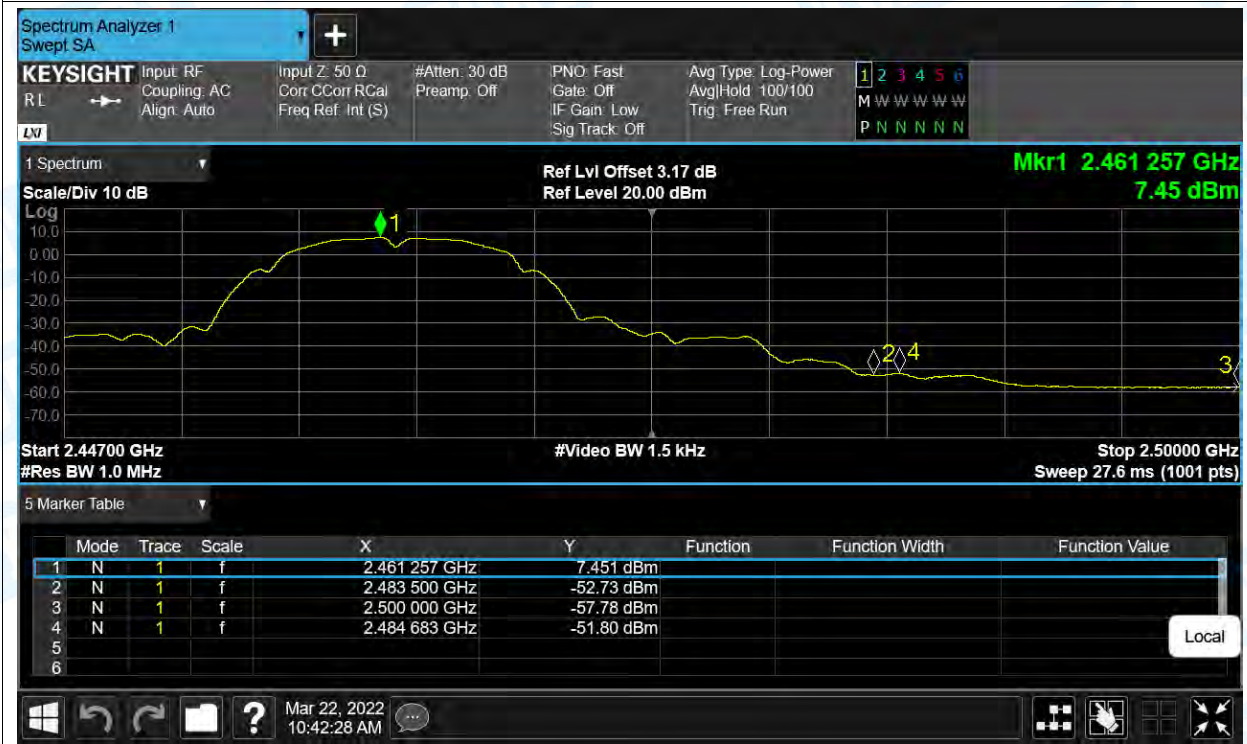
Restrict Band NVNT b 2412MHz Ant1 Average



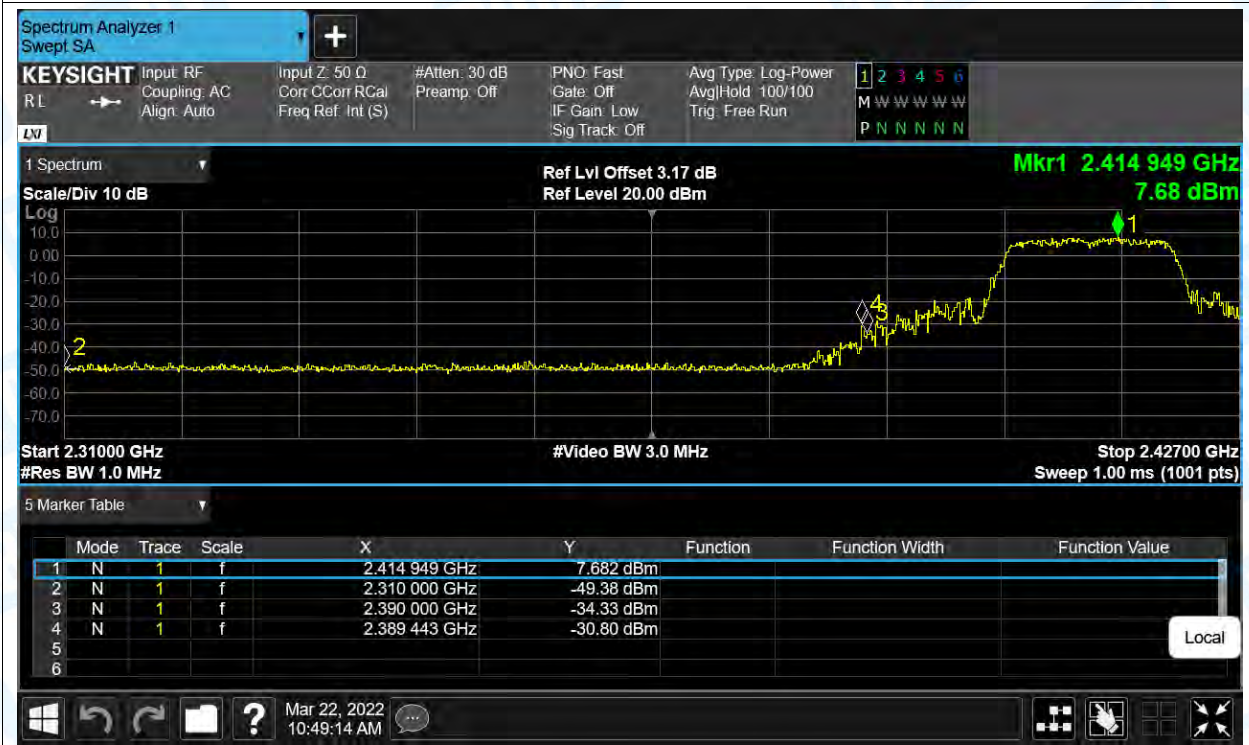
Restrict Band NVNT b 2462MHz Ant1 Peak



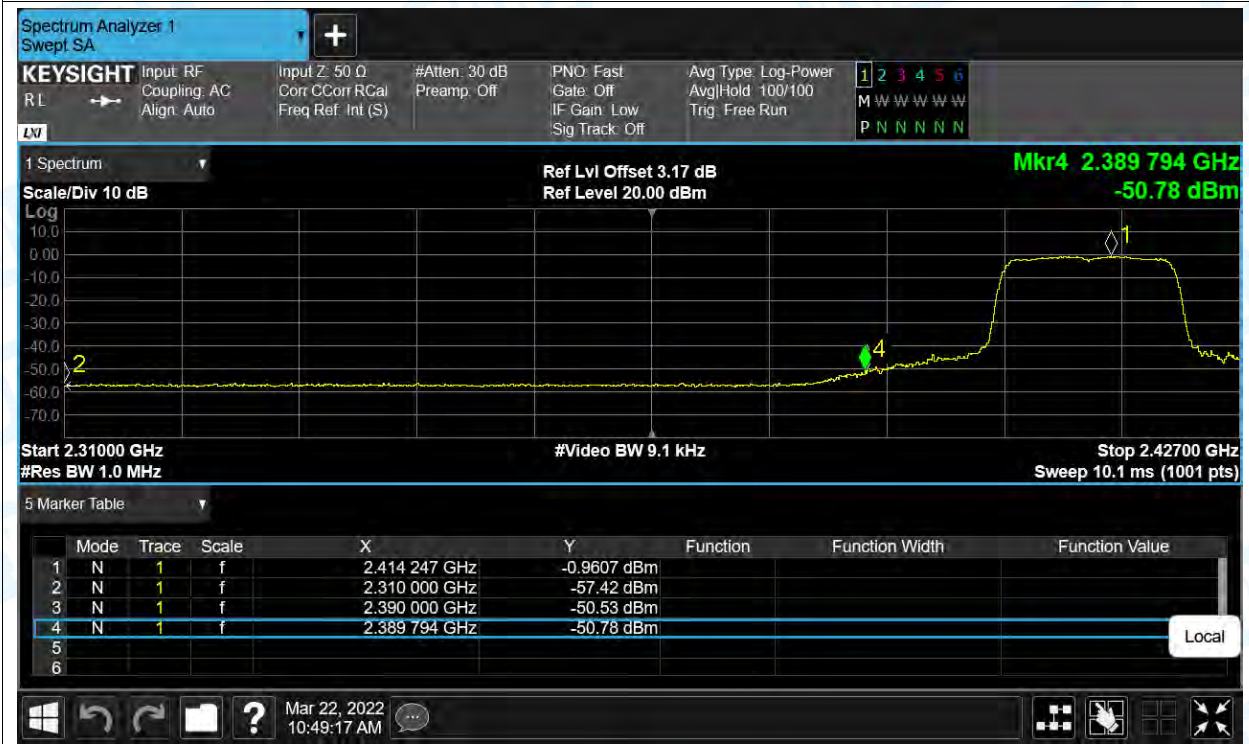
Restrict Band NVNT b 2462MHz Ant1 Average



Restrict Band NVNT g 2412MHz Ant1 Peak



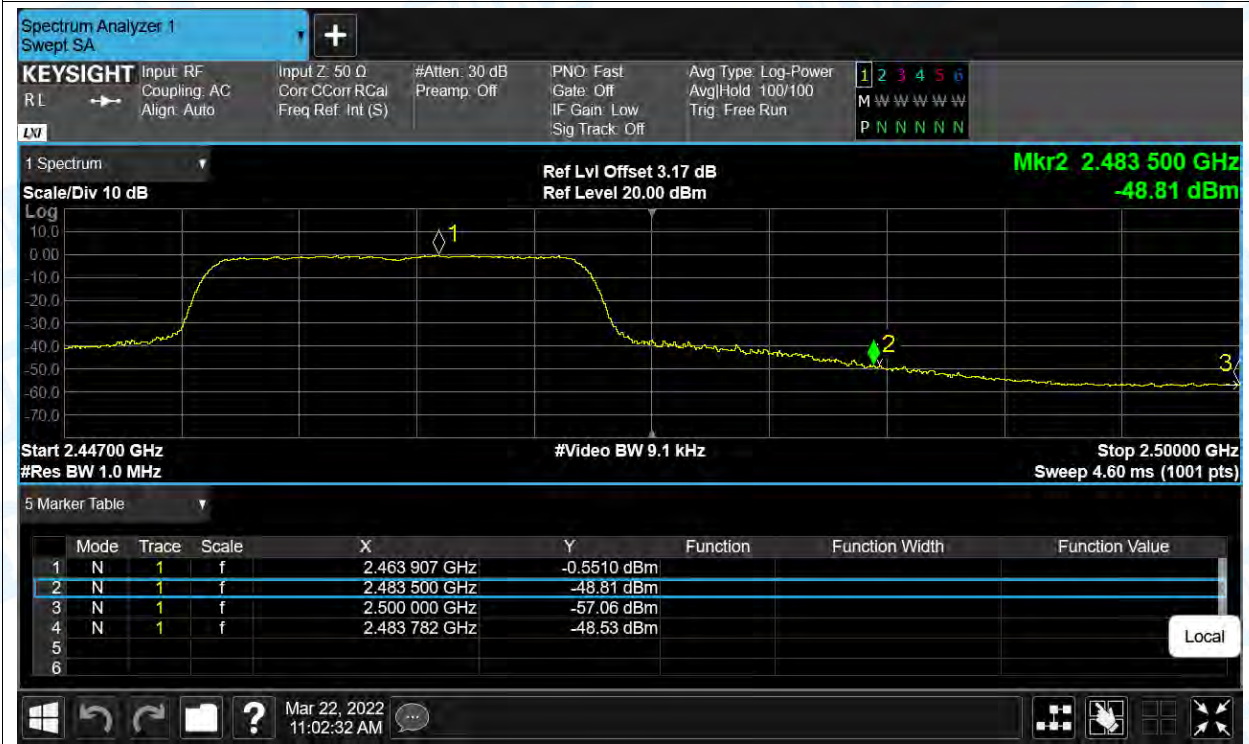
Restrict Band NVNT g 2412MHz Ant1 Average



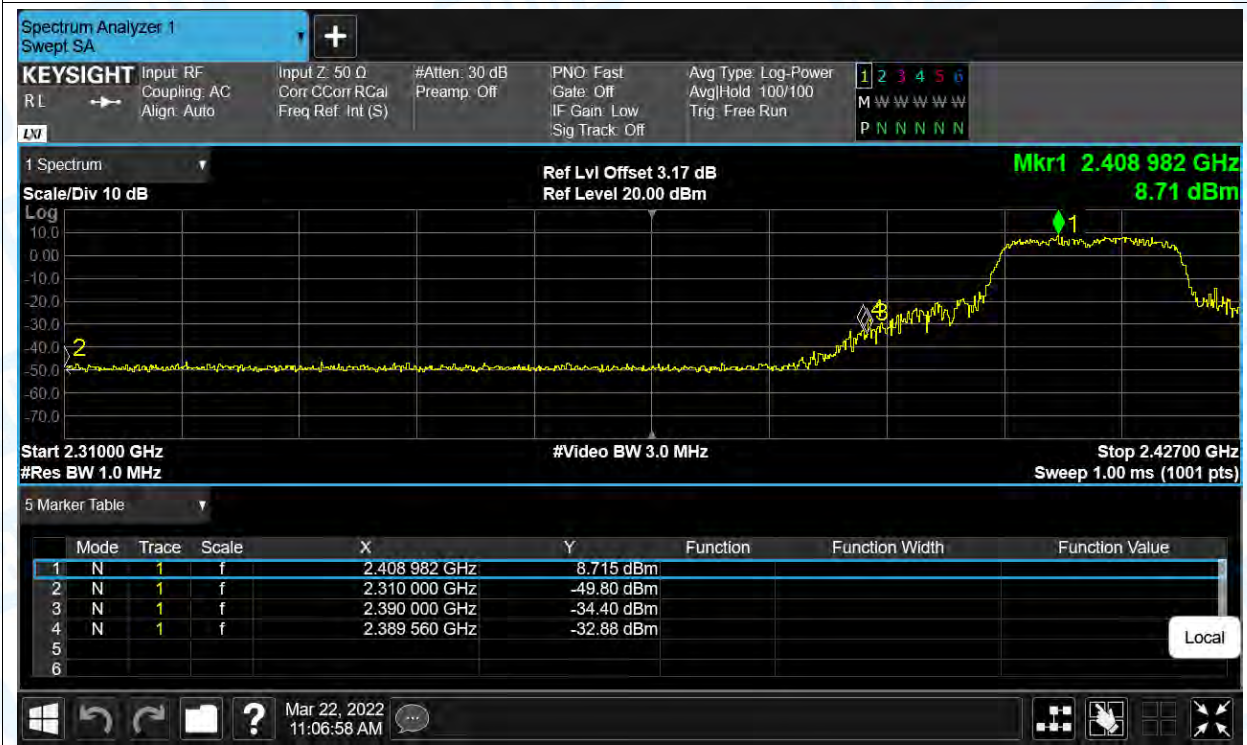
Restrict Band NVNT g 2462MHz Ant1 Peak



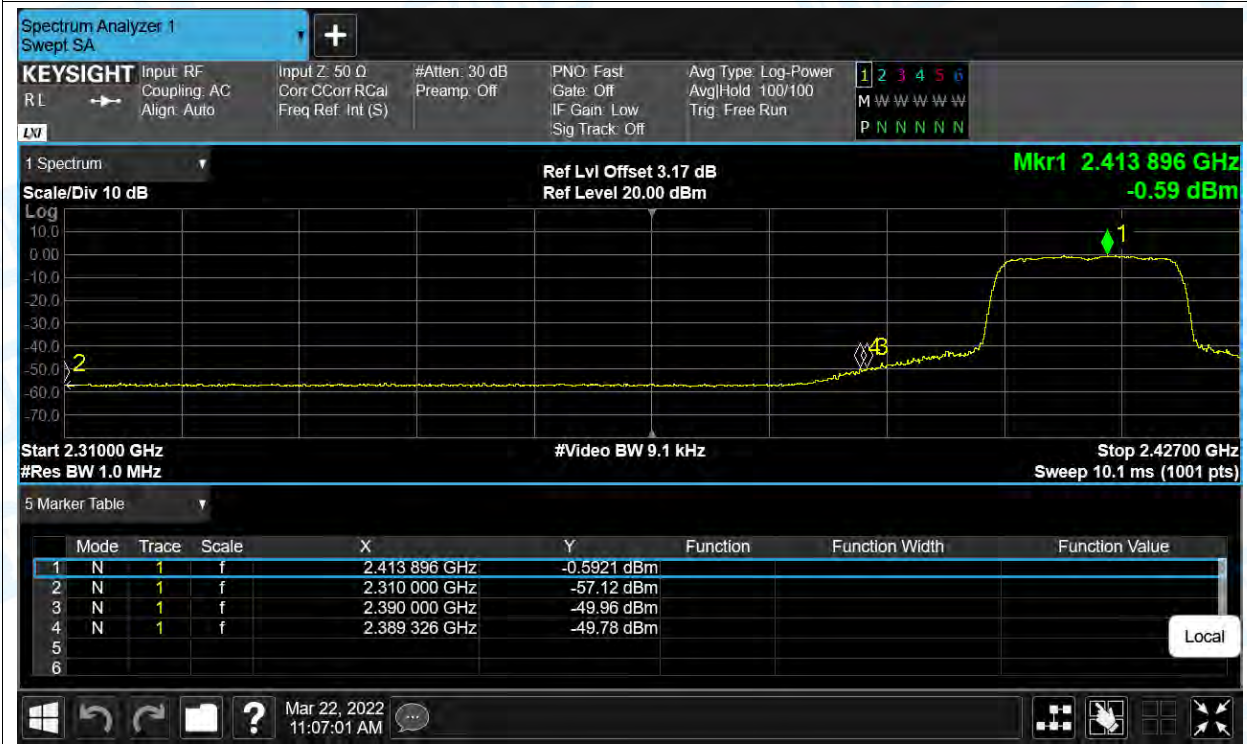
Restrict Band NVNT g 2462MHz Ant1 Average



Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



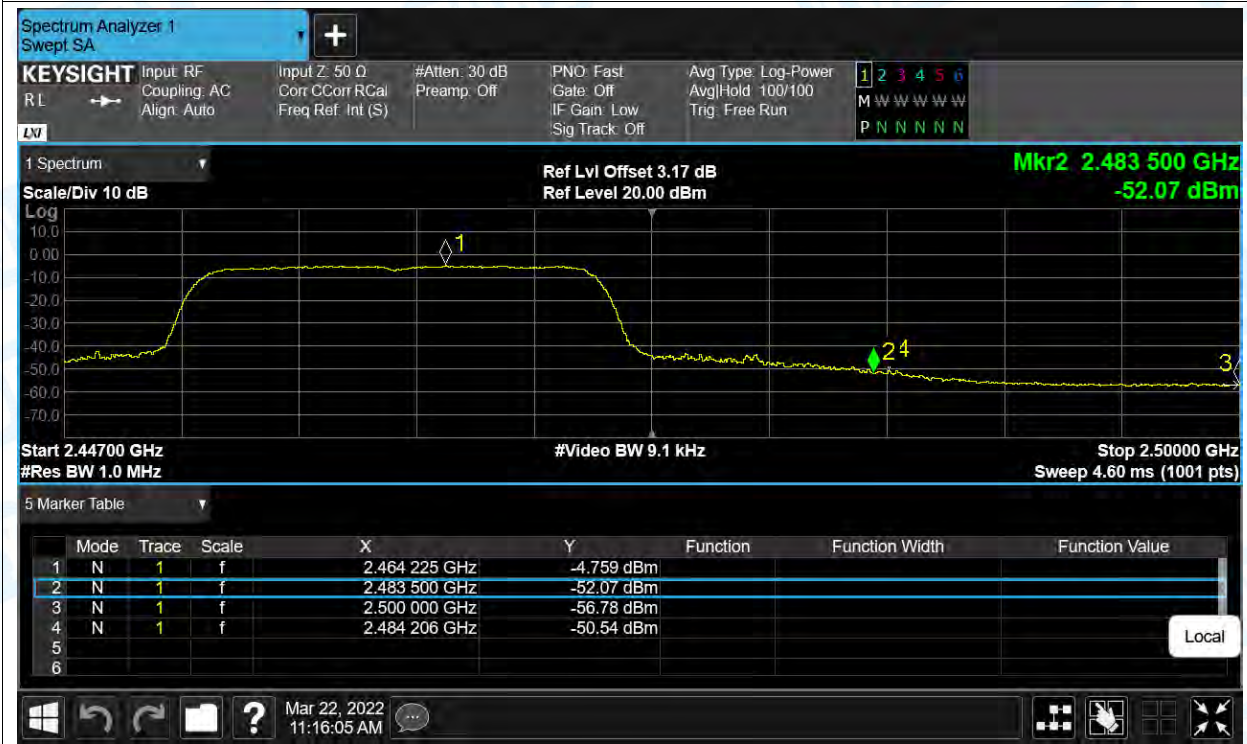
Restrict Band NVNT n(HT20) 2412MHz Ant1 Average



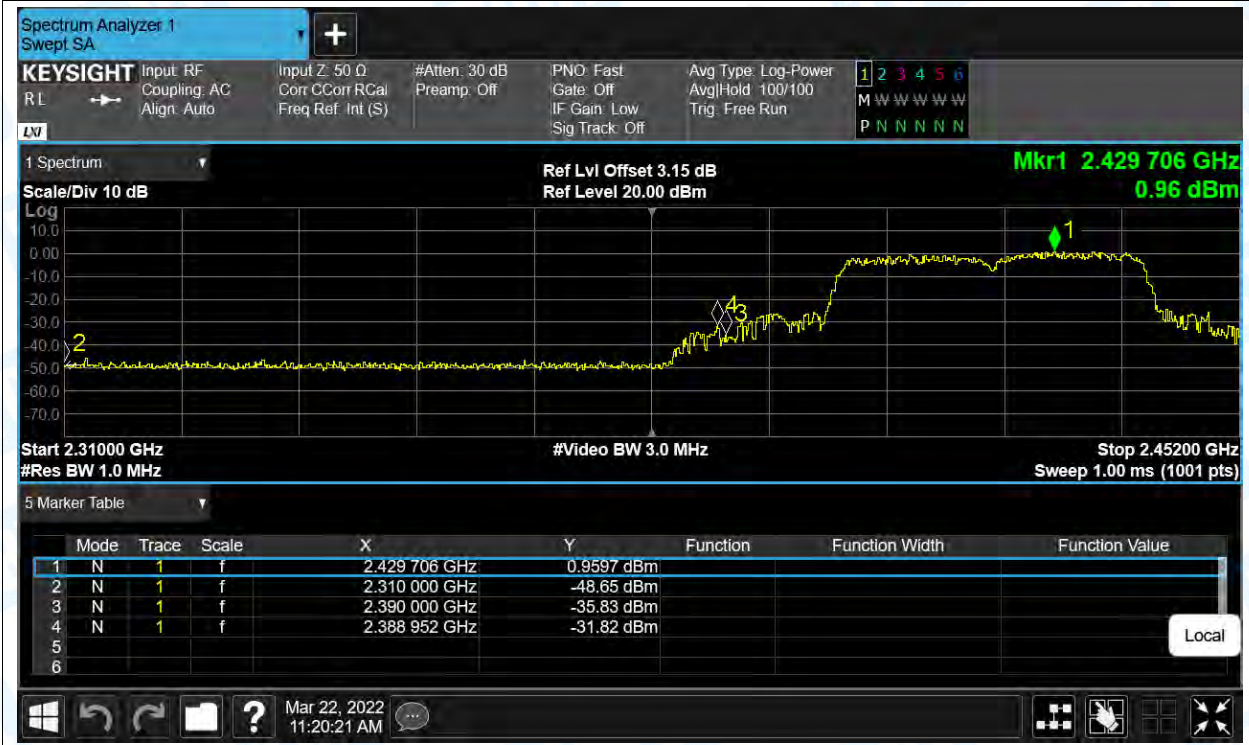
Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



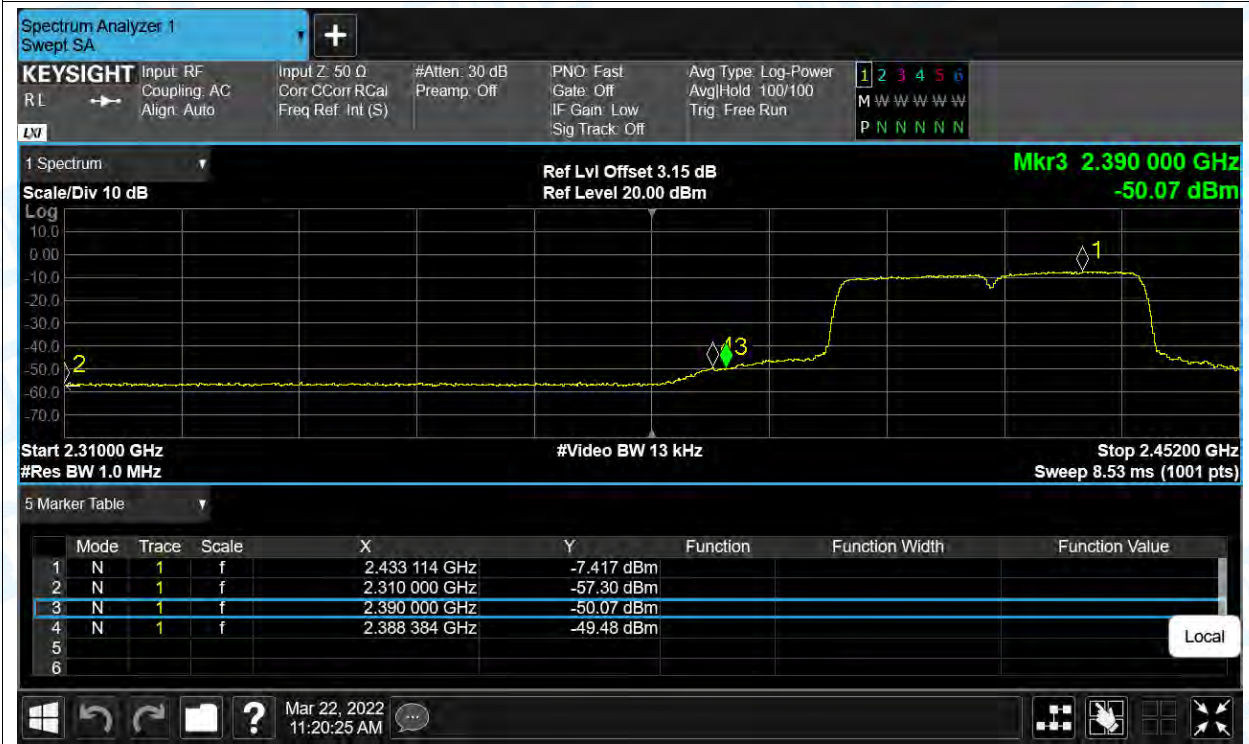
Restrict Band NVNT n(HT20) 2462MHz Ant1 Average



Restrict Band NVNT n(HT40) 2422MHz Ant1 Peak



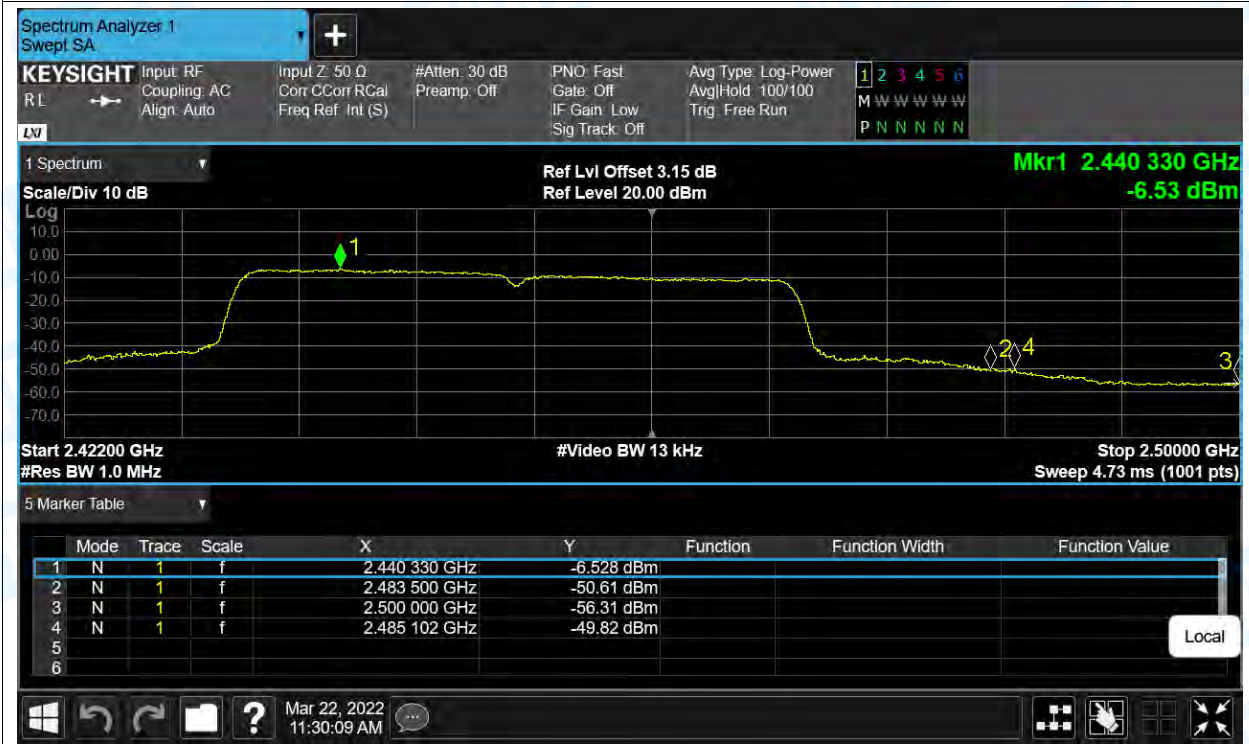
Restrict Band NVNT n(HT40) 2422MHz Ant1 Average



Restrict Band NVNT n(HT40) 2452MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2452MHz Ant1 Average



-----END OF REPORT-----