

## Appendix: Bluetooth LE

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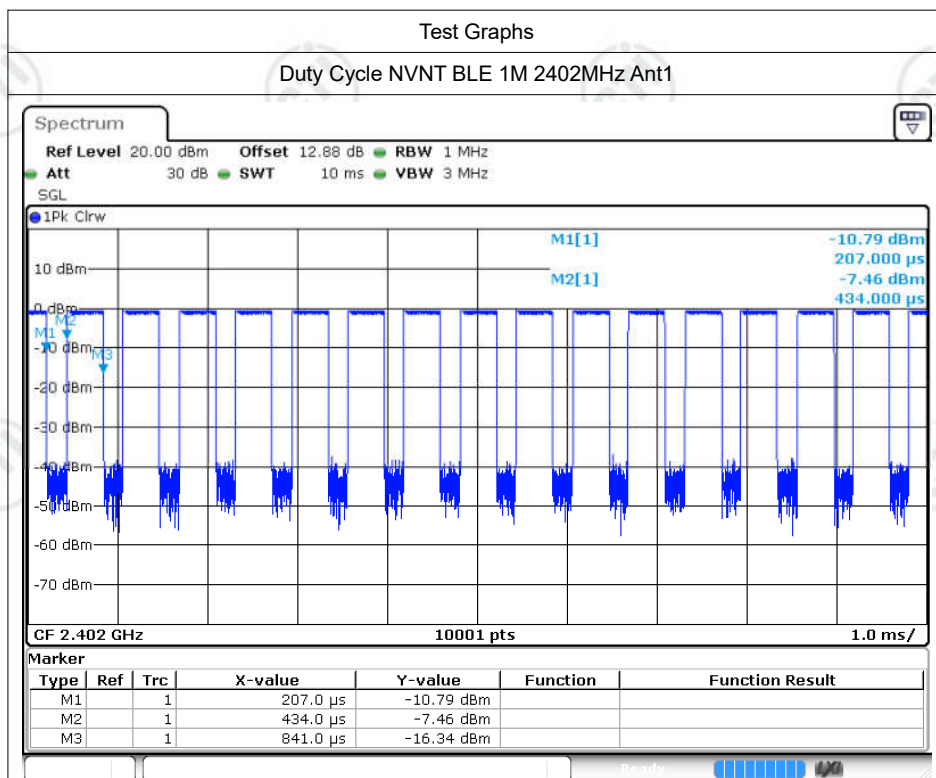
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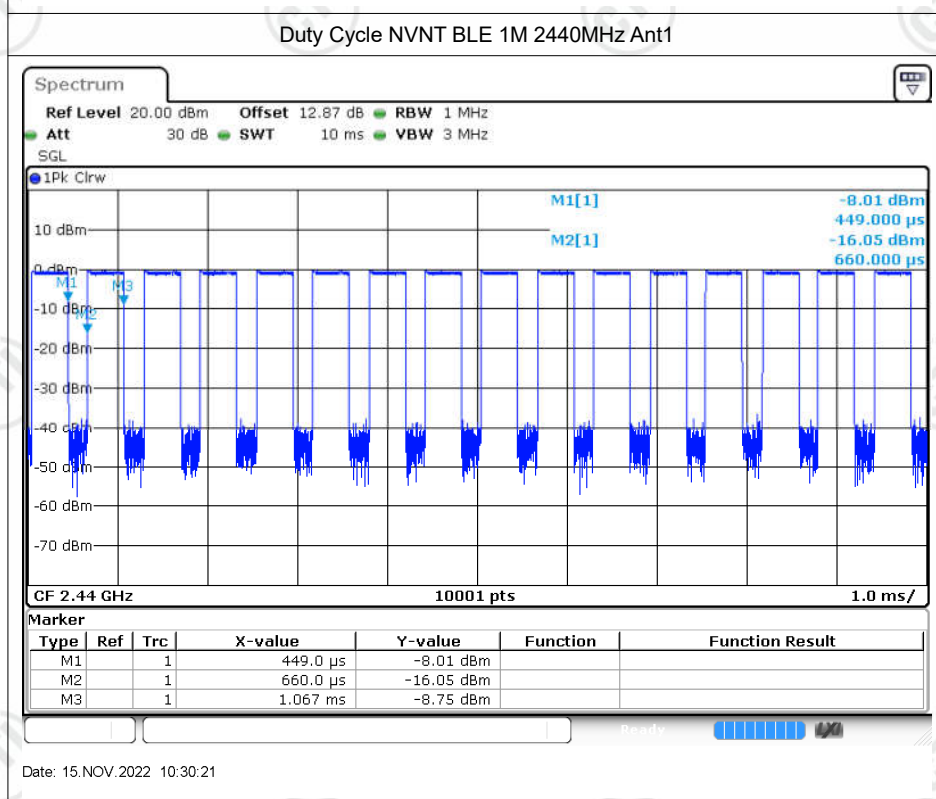
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Duty Cycle

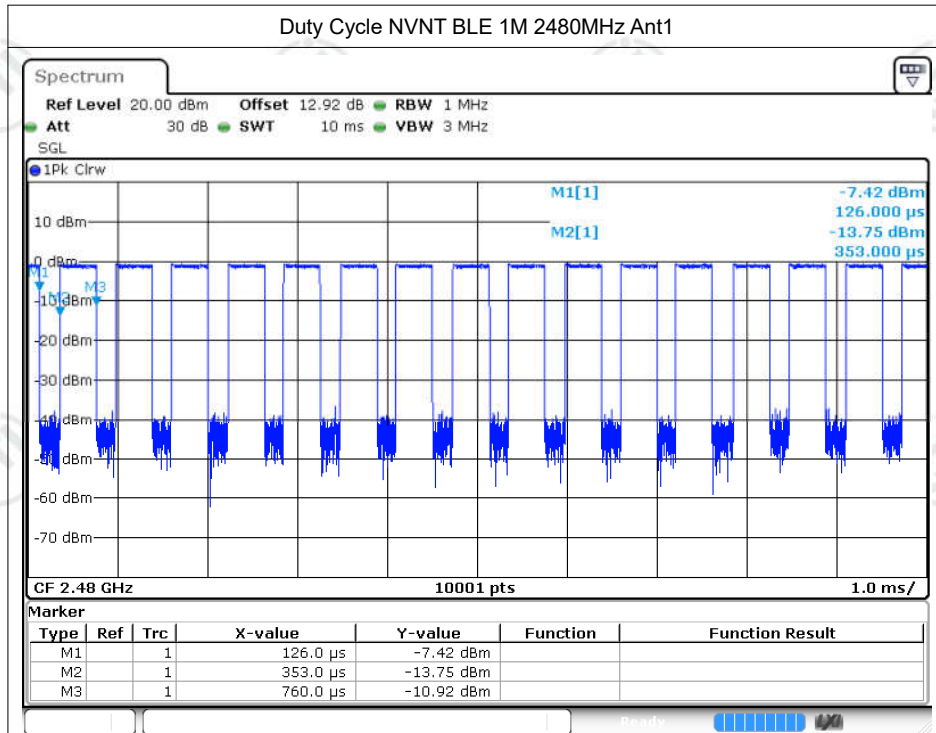
| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant1    | 64.2           | 1.92                   | 2.46      |
| NVNT      | BLE 1M | 2440            | Ant1    | 65.86          | 1.81                   | 2.46      |
| NVNT      | BLE 1M | 2480            | Ant1    | 64.2           | 1.92                   | 2.46      |
| NVNT      | BLE 2M | 2402            | Ant1    | 34.47          | 4.63                   | 4.69      |
| NVNT      | BLE 2M | 2440            | Ant1    | 34.47          | 4.63                   | 4.69      |
| NVNT      | BLE 2M | 2480            | Ant1    | 33.6           | 4.74                   | 4.69      |



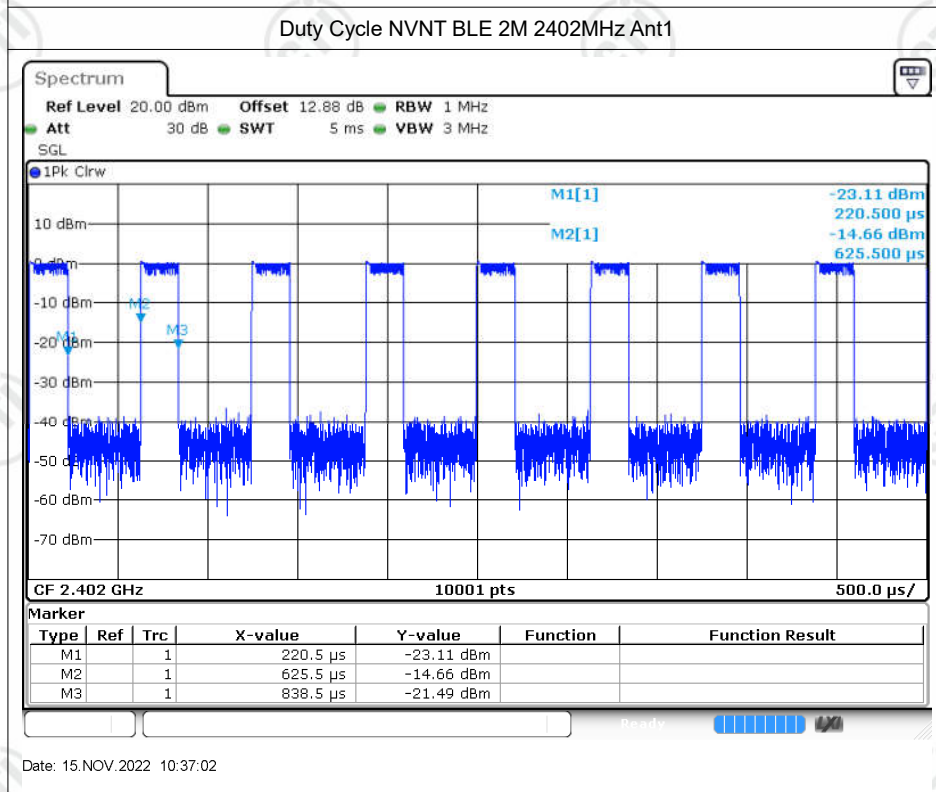
Date: 15.NOV.2022 10:26:30



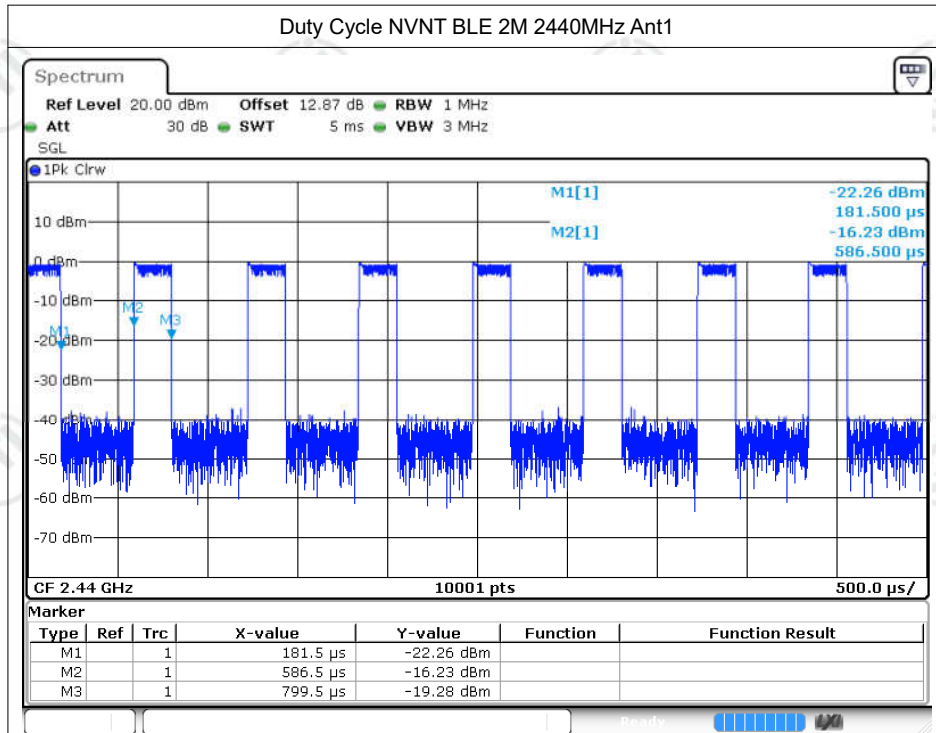
Date: 15.NOV.2022 10:30:21



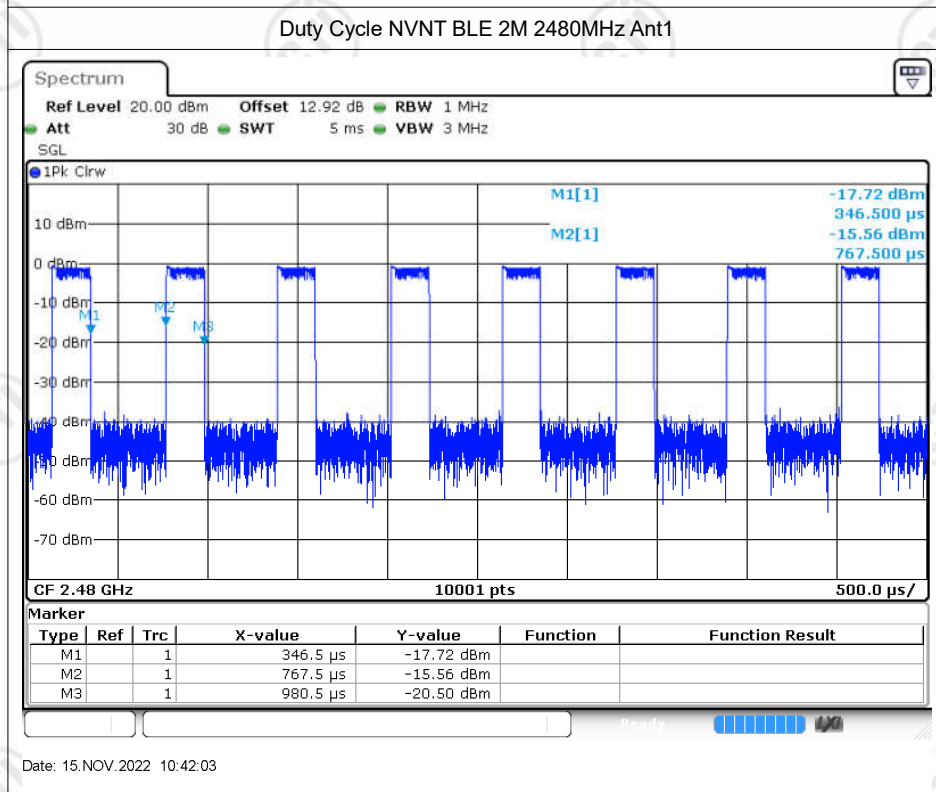
Date: 15.NOV.2022 10:31:54



Date: 15.NOV.2022 10:37:02



Date: 15.NOV.2022 10:40:11

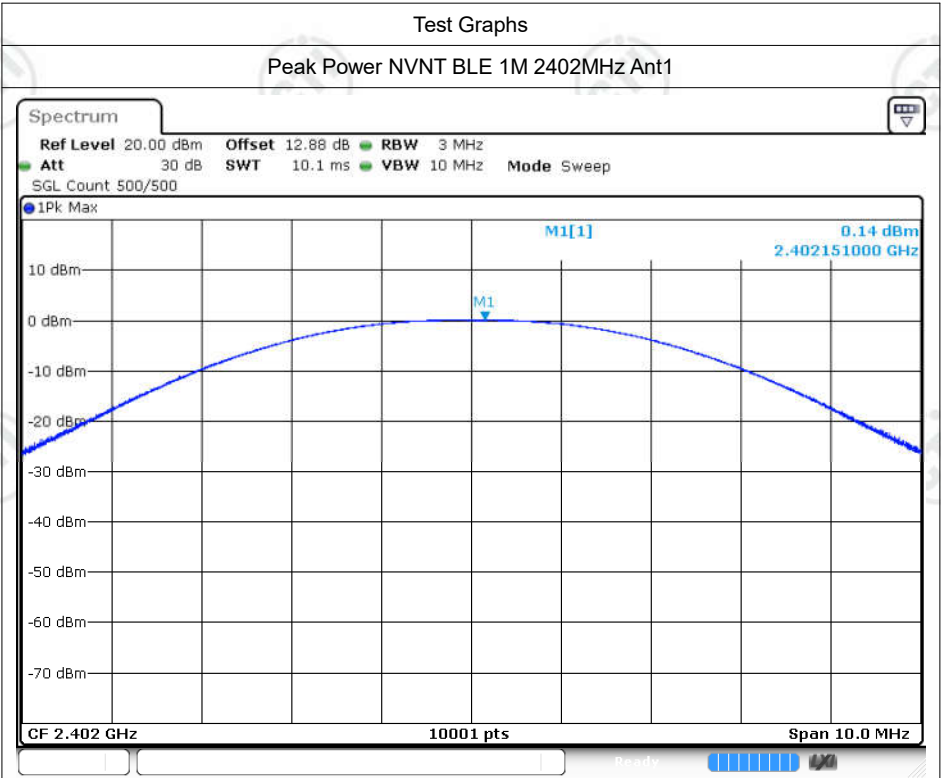


Date: 15.NOV.2022 10:42:03

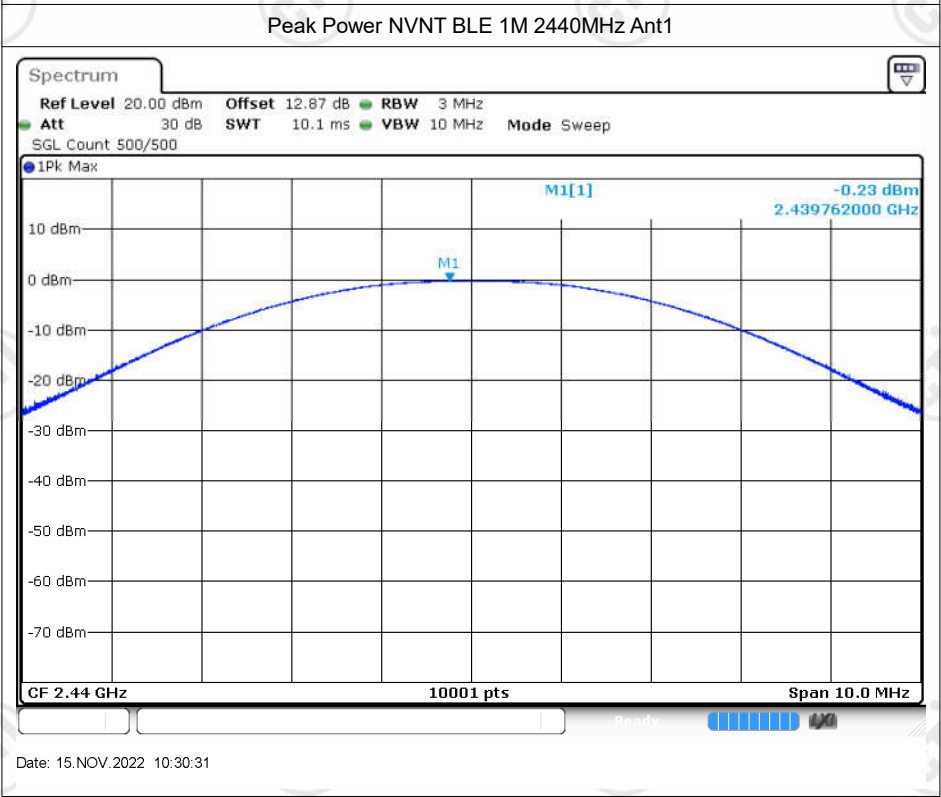


Maximum Peak Conducted Output Power

| Condition | Mode   | Frequency<br>(MHz) | Antenna | Conducted Power<br>(dBm) | Duty Factor<br>(dB) | Total Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|--------|--------------------|---------|--------------------------|---------------------|----------------------|----------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | 0.14                     | 0                   | 0.14                 | 30             | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | -0.23                    | 0                   | -0.23                | 30             | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | -0.03                    | 0                   | -0.03                | 30             | Pass    |
| NVNT      | BLE 2M | 2402               | Ant1    | 0.17                     | 0                   | <b>0.17</b>          | 30             | Pass    |
| NVNT      | BLE 2M | 2440               | Ant1    | -0.21                    | 0                   | -0.21                | 30             | Pass    |
| NVNT      | BLE 2M | 2480               | Ant1    | -0.48                    | 0                   | -0.48                | 30             | Pass    |

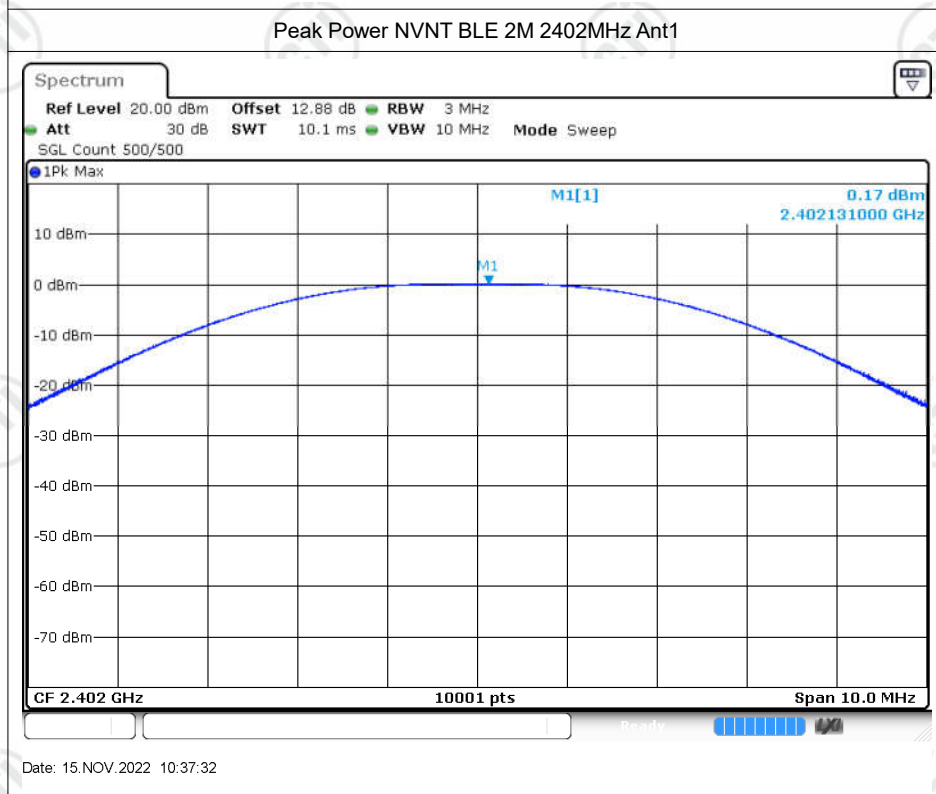
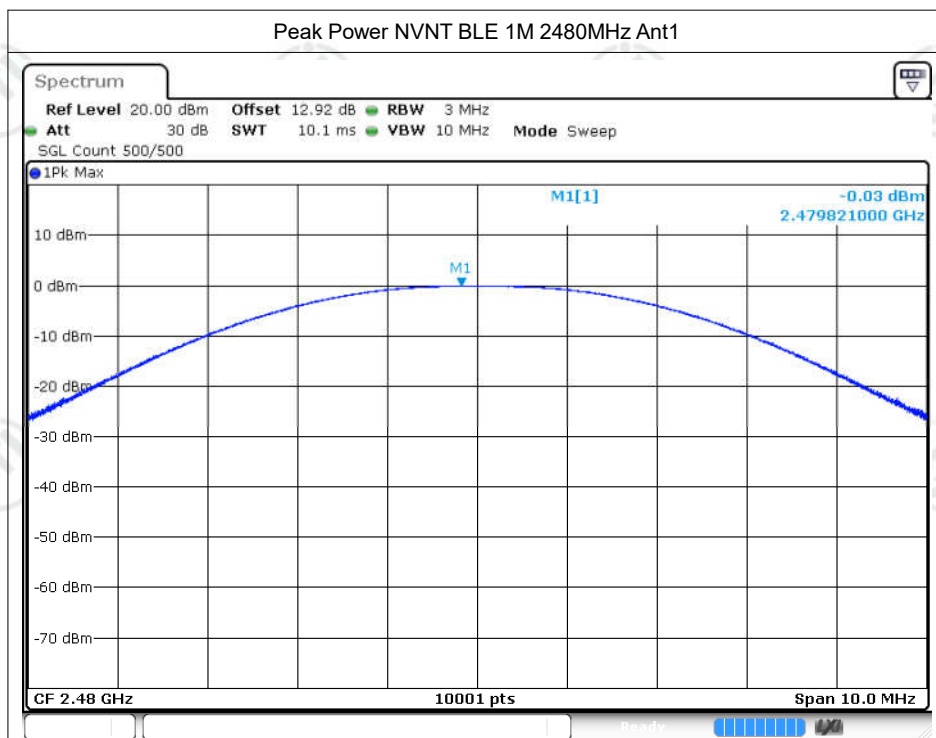


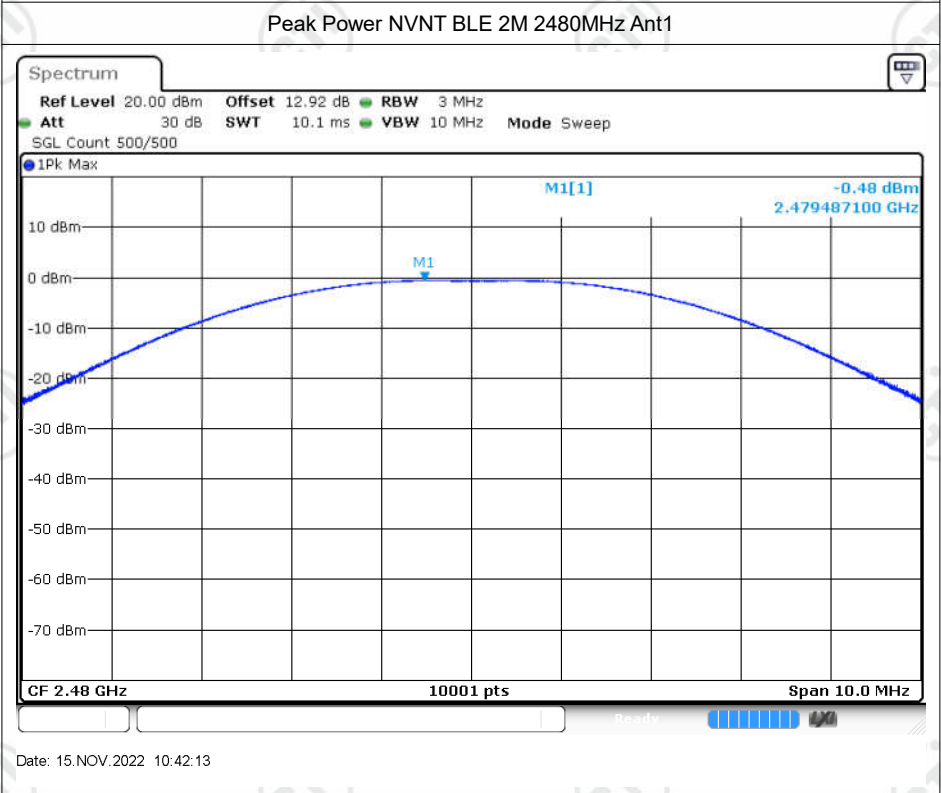
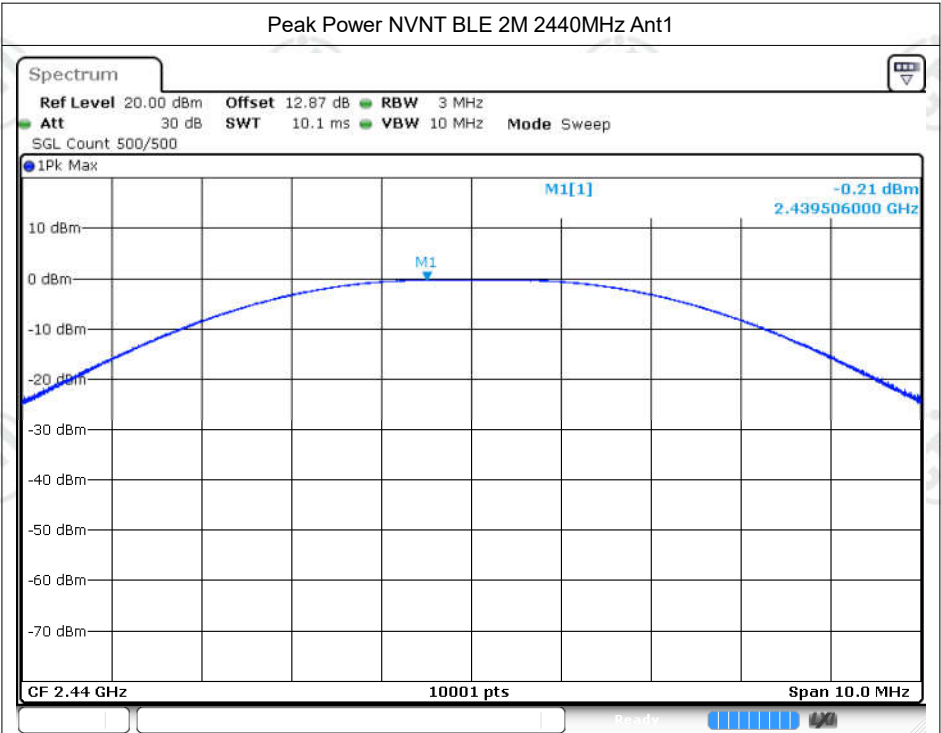
Date: 15.NOV.2022 10:30:04



Date: 15.NOV.2022 10:30:31

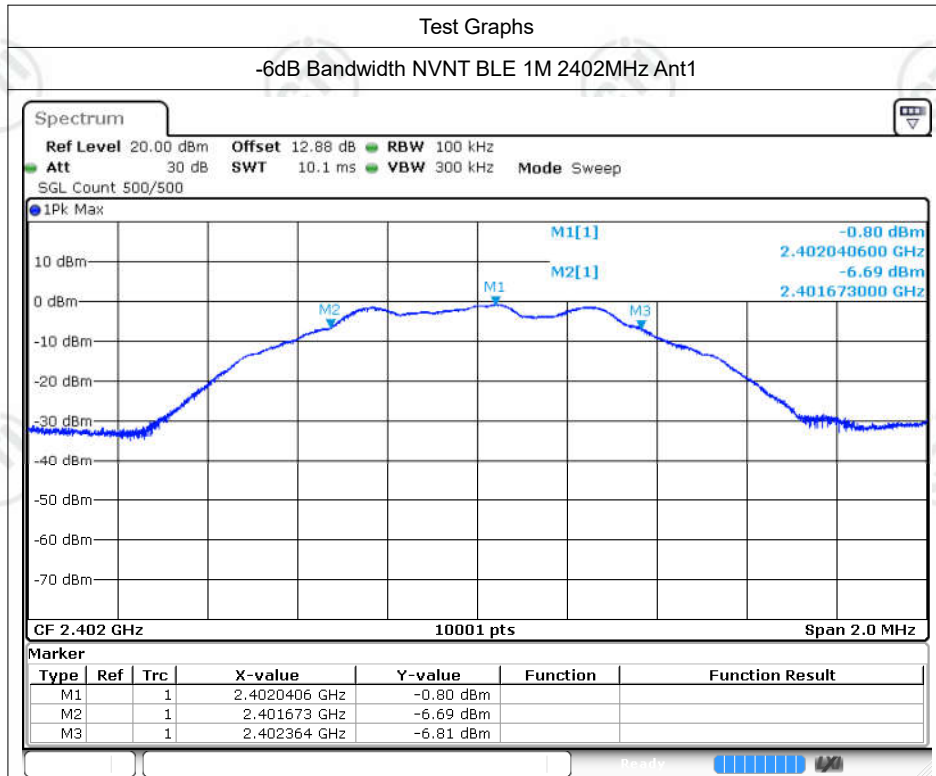




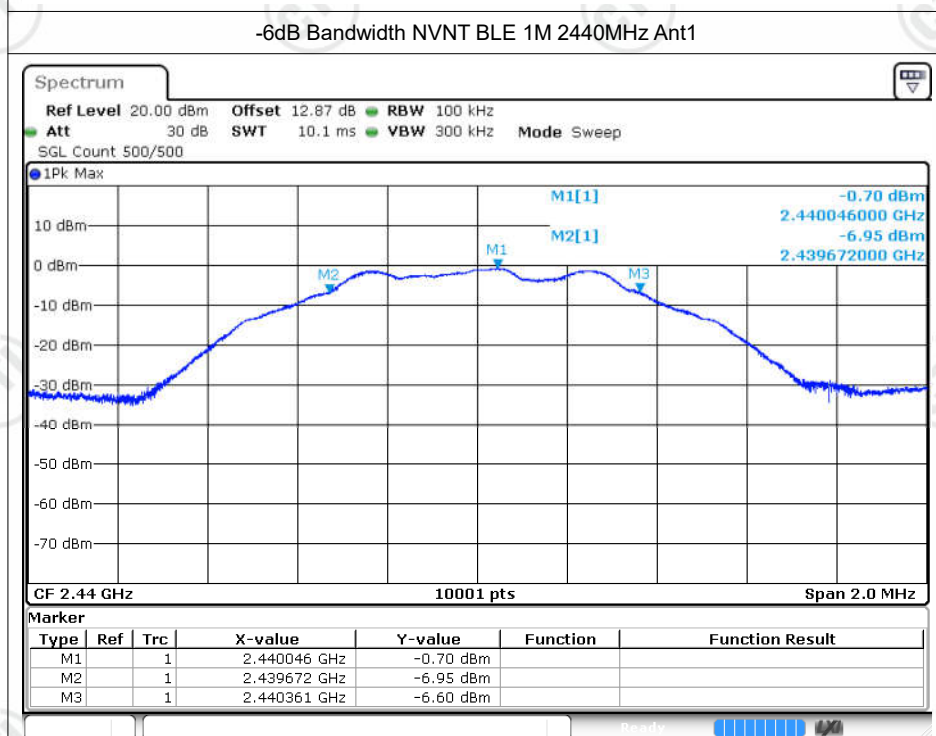


-6dB Bandwidth

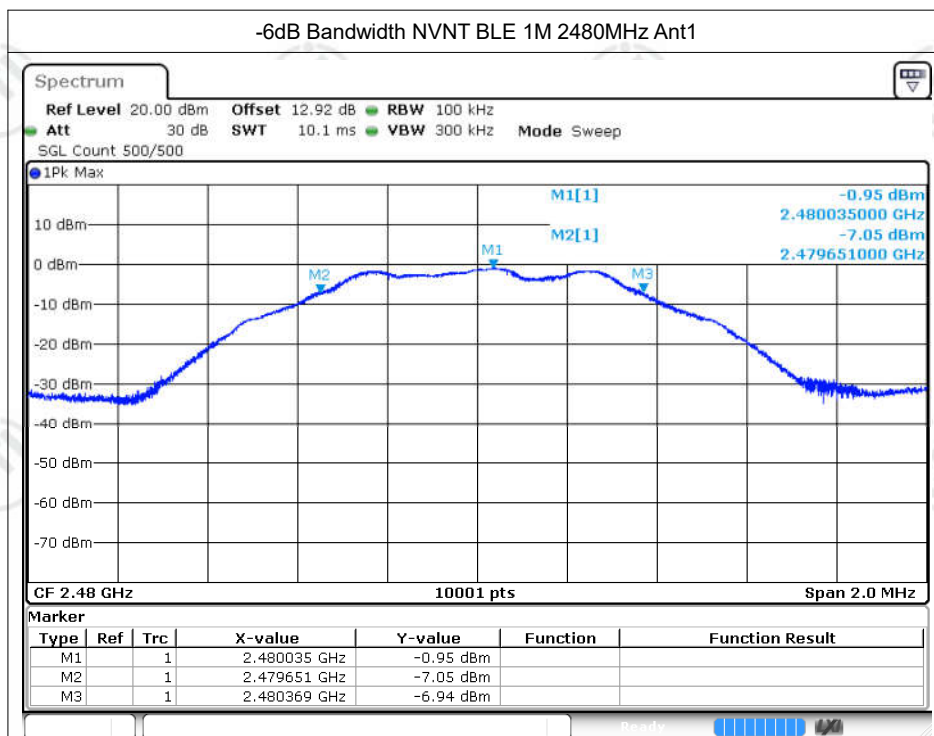
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.691                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.689                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.718                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.16                  | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.166                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.151                 | 0.5                         | Pass    |



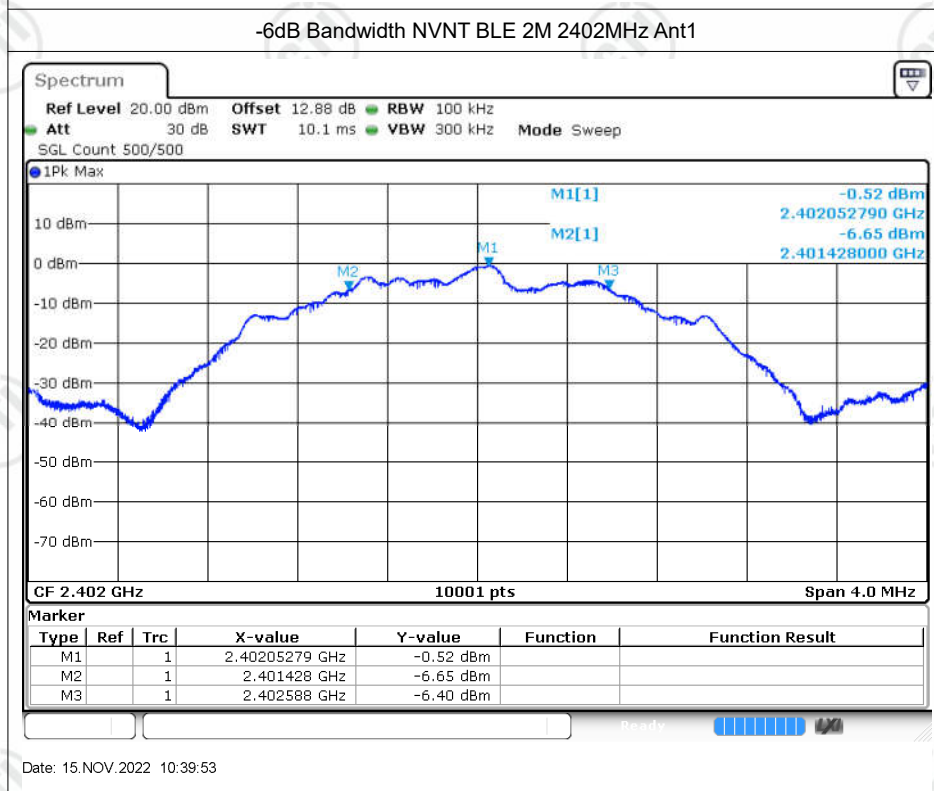
Date: 15.NOV.2022 10:28:41



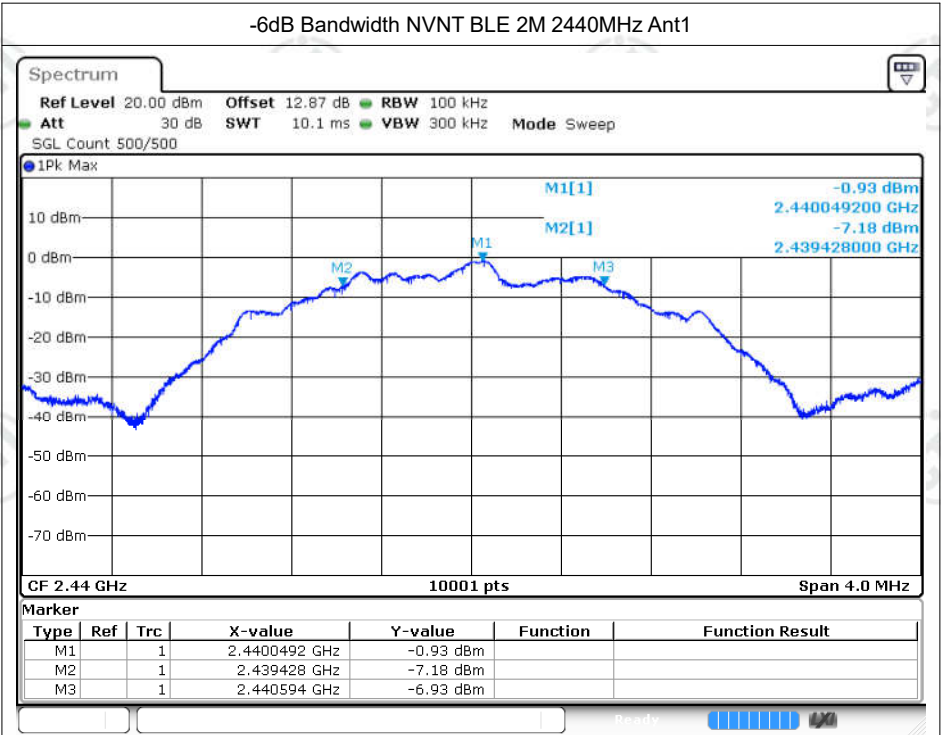
Date: 15.NOV.2022 10:30:53



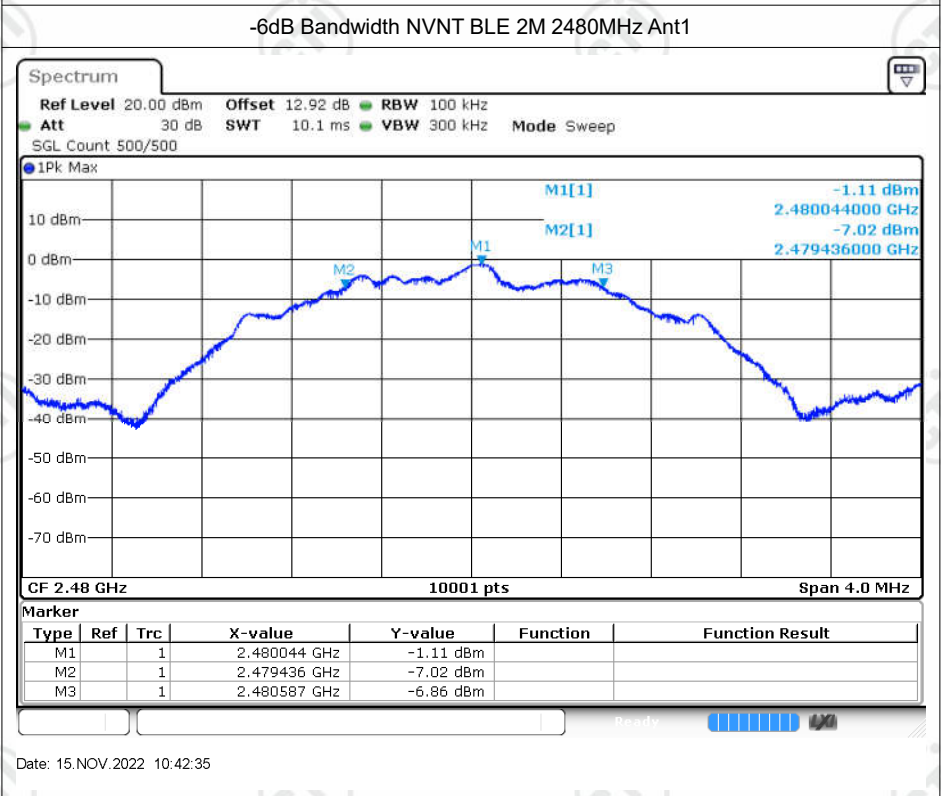
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Date: 15.NOV.2022 10:39:53



Date: 15.NOV.2022 10:40:56

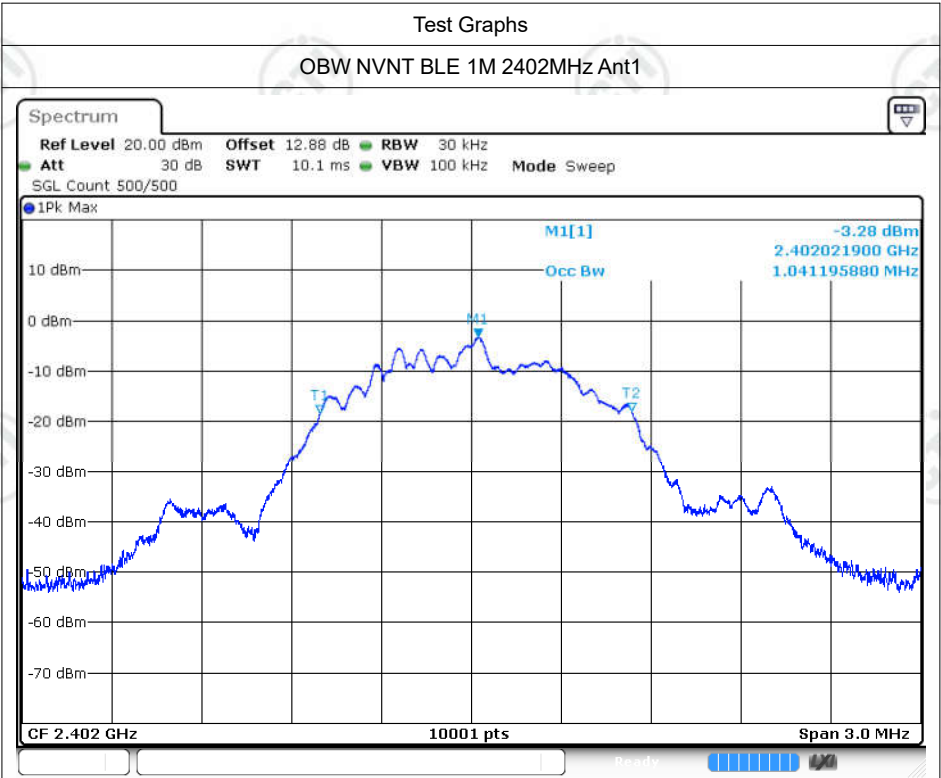


Date: 15.NOV.2022 10:42:35

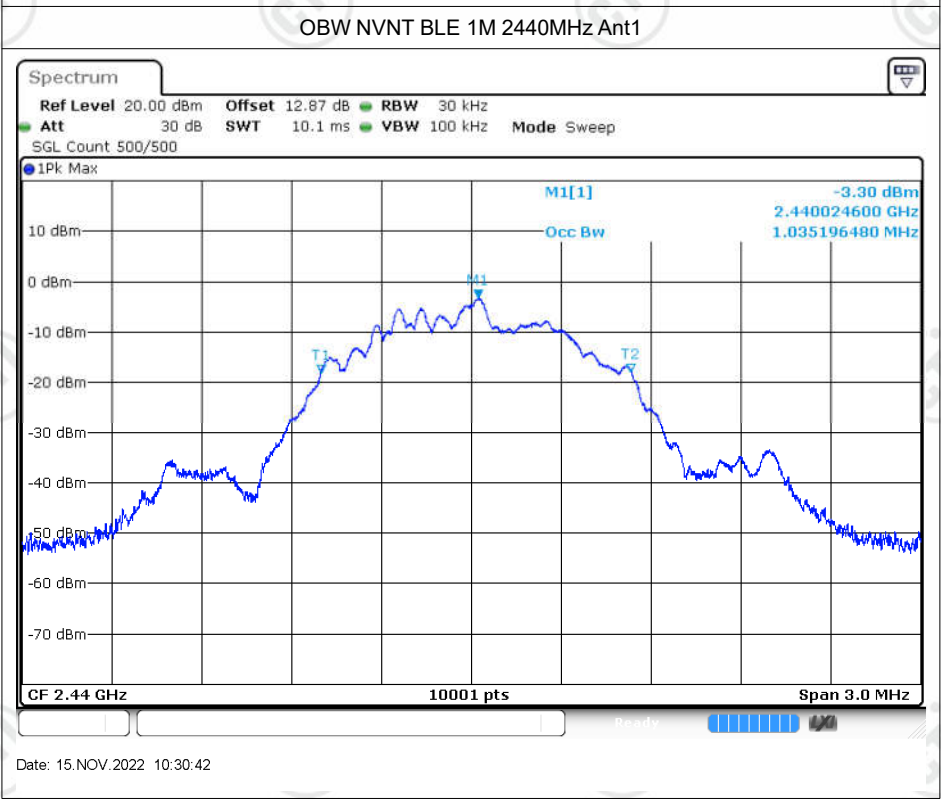


Occupied Channel Bandwidth

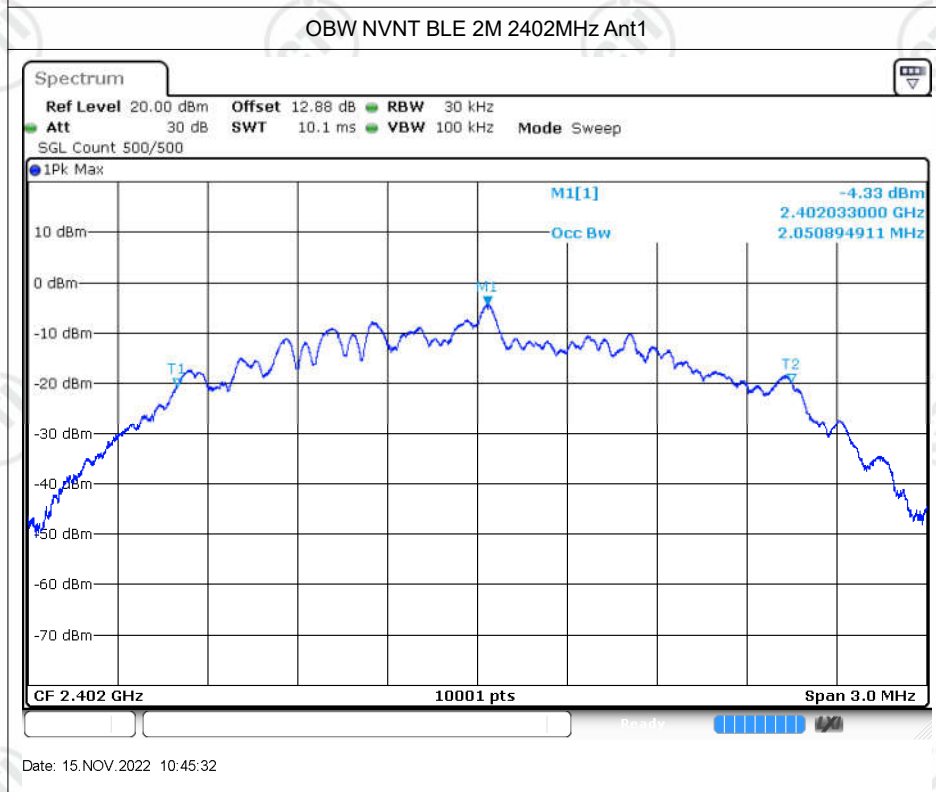
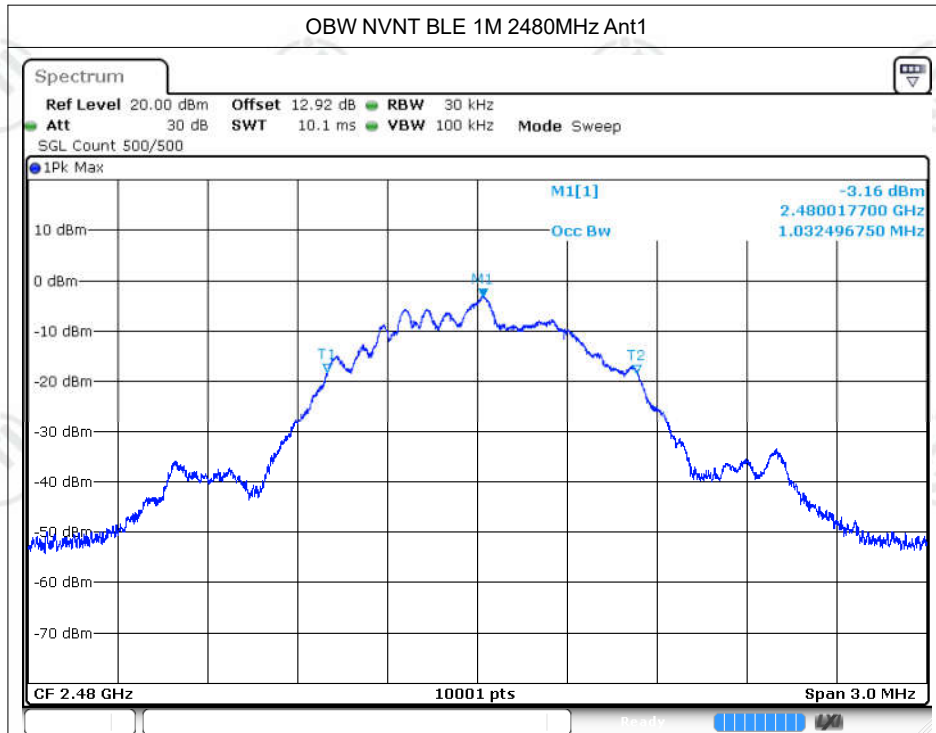
| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.041         |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.035         |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.032         |
| NVNT      | BLE 2M | 2402            | Ant1    | 2.051         |
| NVNT      | BLE 2M | 2440            | Ant1    | 2.052         |
| NVNT      | BLE 2M | 2480            | Ant1    | 2.051         |

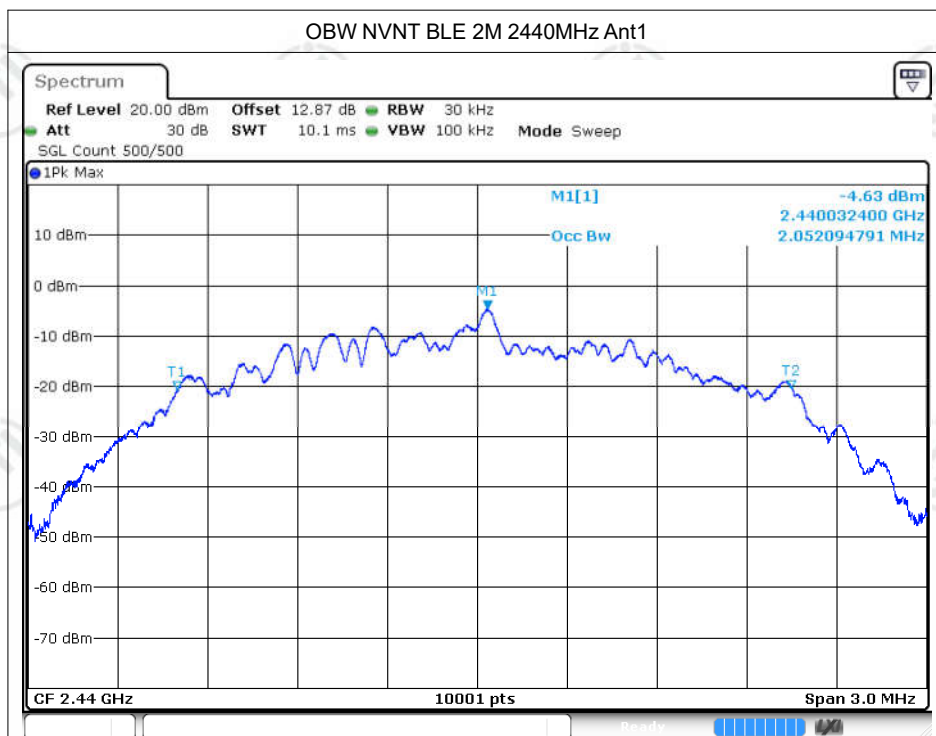


Date: 15.NOV.2022 10:28:19

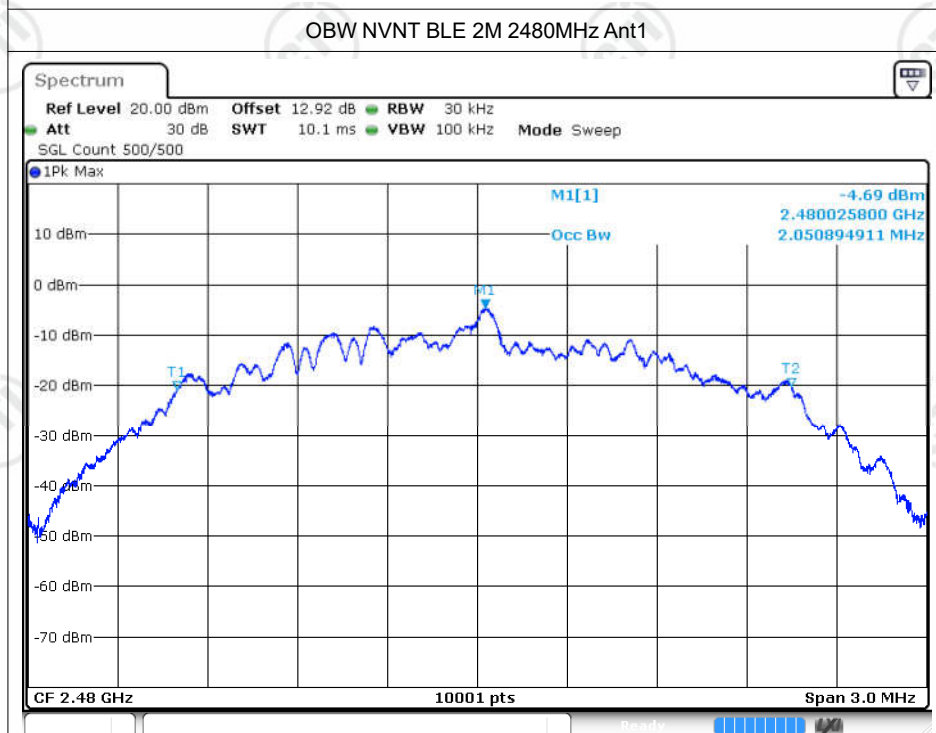


Date: 15.NOV.2022 10:30:42





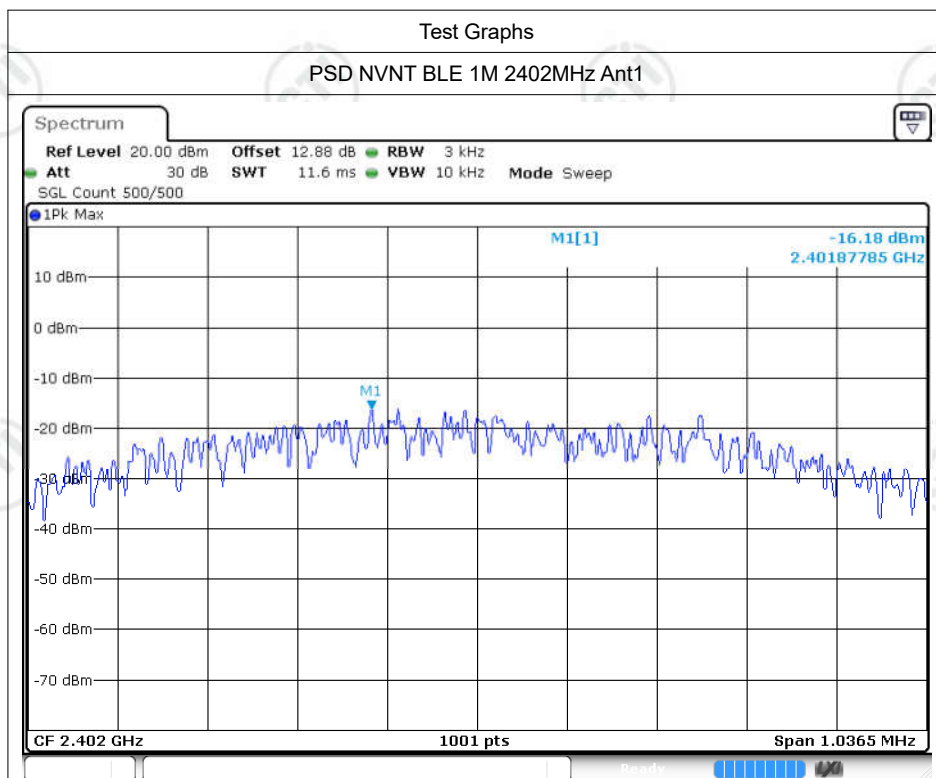
Date: 15.NOV.2022 10:40:46



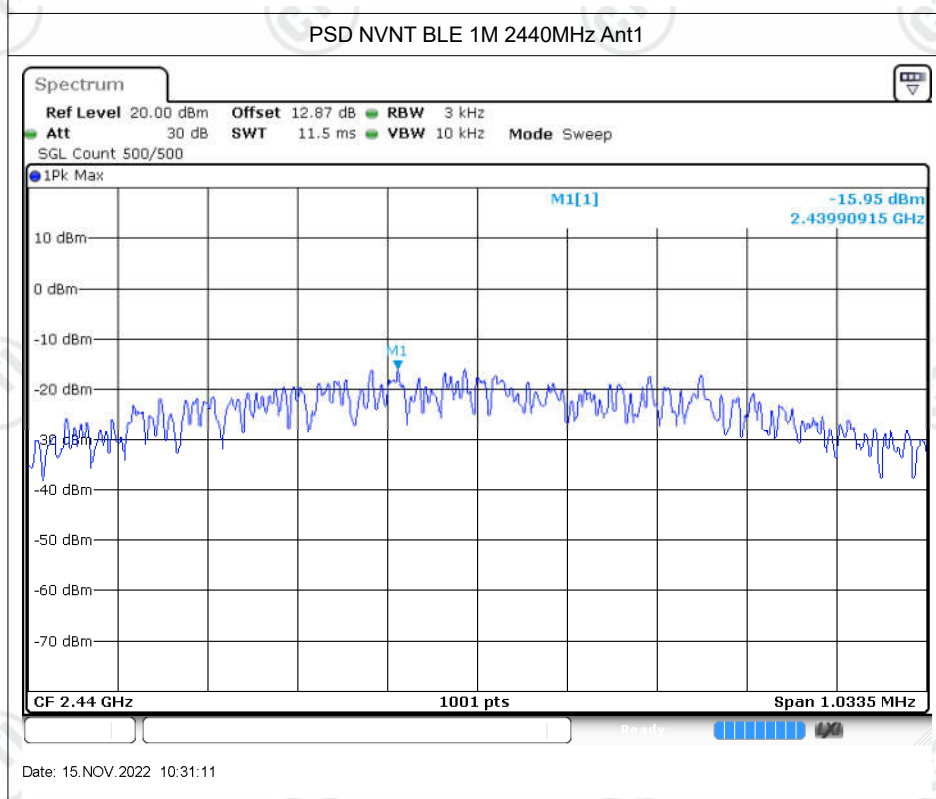
Date: 15.NOV.2022 10:42:24

Maximum Power Spectral Density Level

| Condition | Mode   | Frequency<br>(MHz) | Antenna | Conducted PSD<br>(dBm/3kHz) | Duty Factor<br>(dB) | Total PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|--------|--------------------|---------|-----------------------------|---------------------|-------------------------|---------------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | -16.18                      | 0                   | -16.18                  | 8                   | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | -15.95                      | 0                   | -15.95                  | 8                   | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | -15.37                      | 0                   | -15.37                  | 8                   | Pass    |
| NVNT      | BLE 2M | 2402               | Ant1    | -17.35                      | 0                   | -17.35                  | 8                   | Pass    |
| NVNT      | BLE 2M | 2440               | Ant1    | -17.72                      | 0                   | -17.72                  | 8                   | Pass    |
| NVNT      | BLE 2M | 2480               | Ant1    | -18.02                      | 0                   | -18.02                  | 8                   | Pass    |

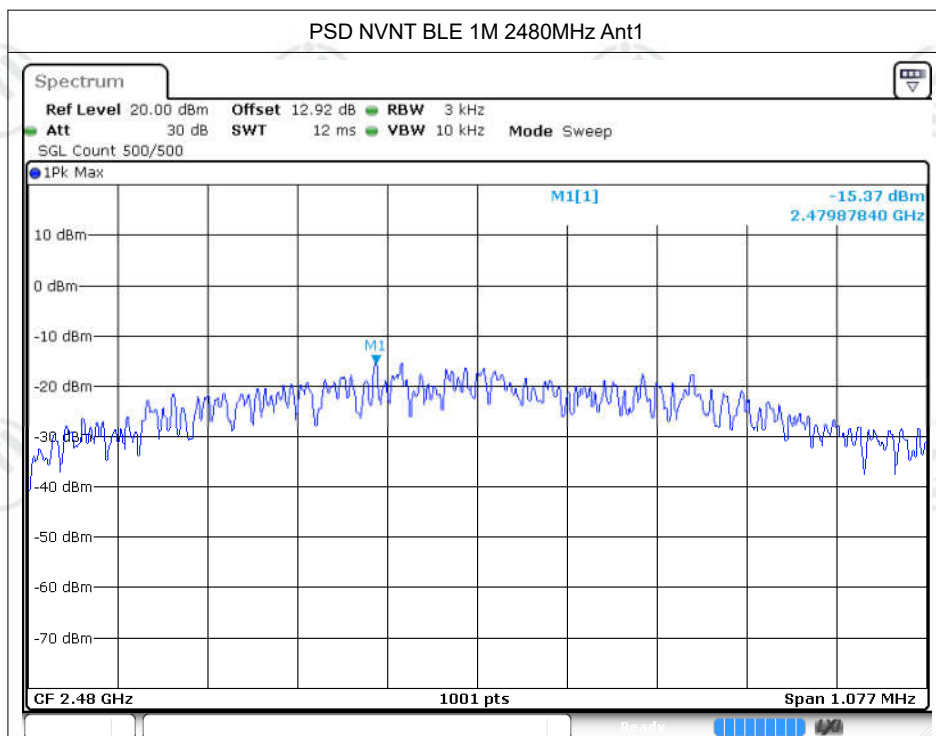


Date: 15.NOV.2022 10:28:59

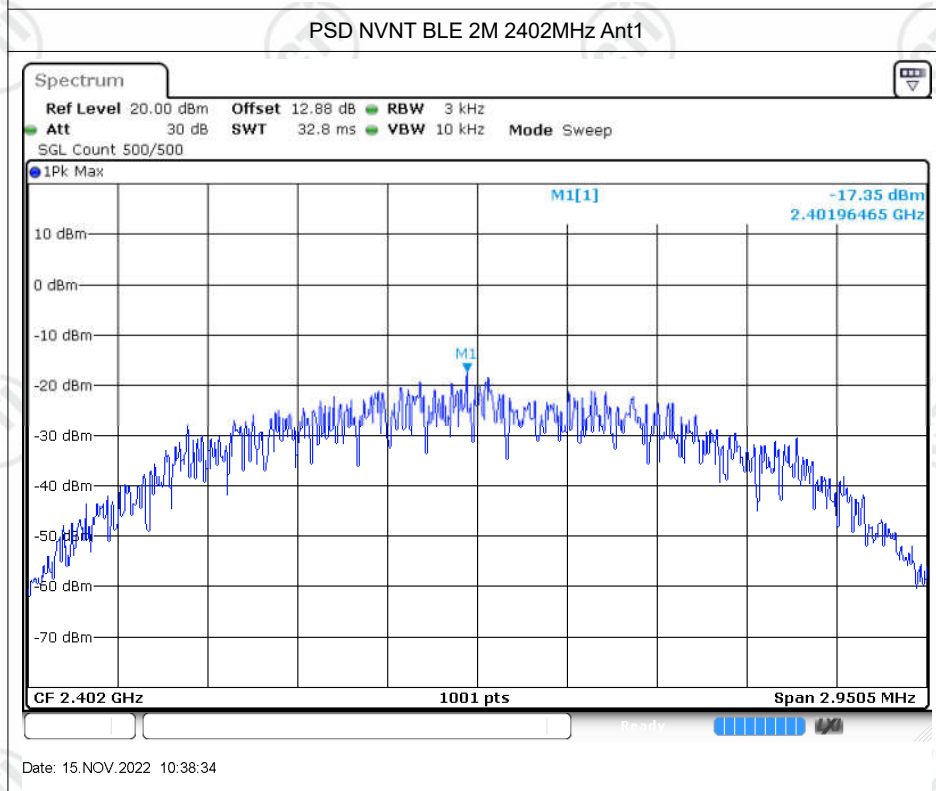


Date: 15.NOV.2022 10:31:11

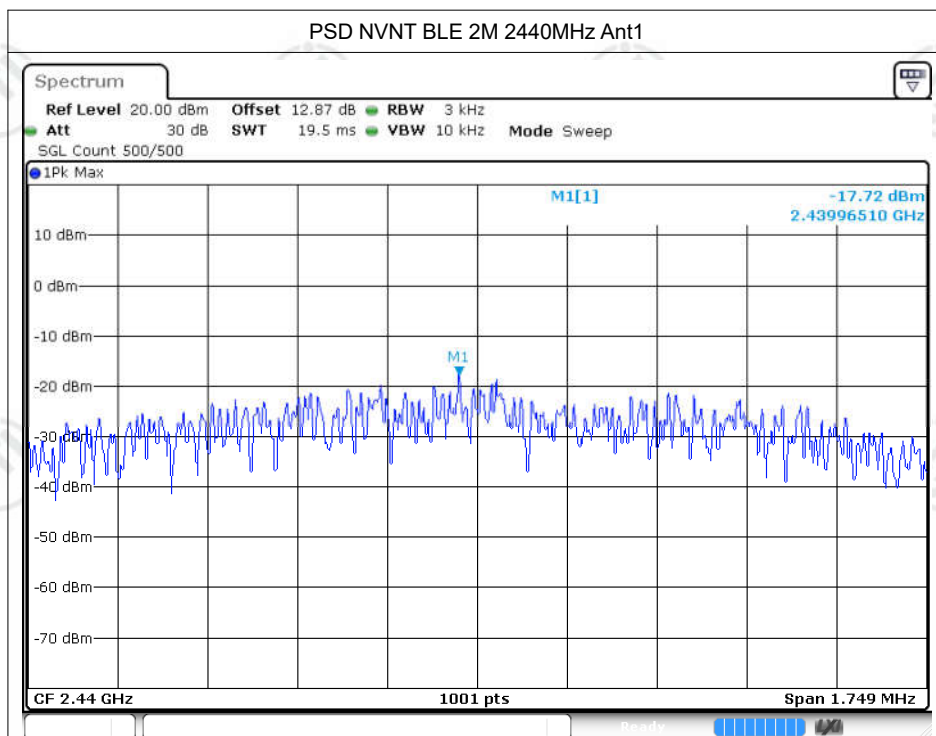




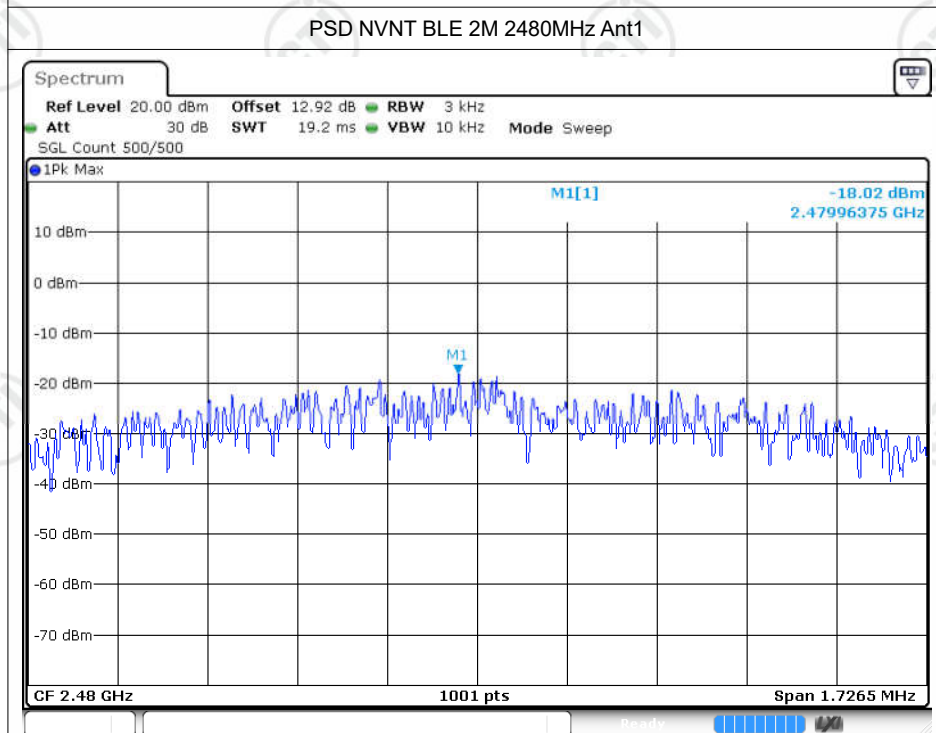
Date: 15.NOV.2022 10:32:43



Date: 15.NOV.2022 10:38:34



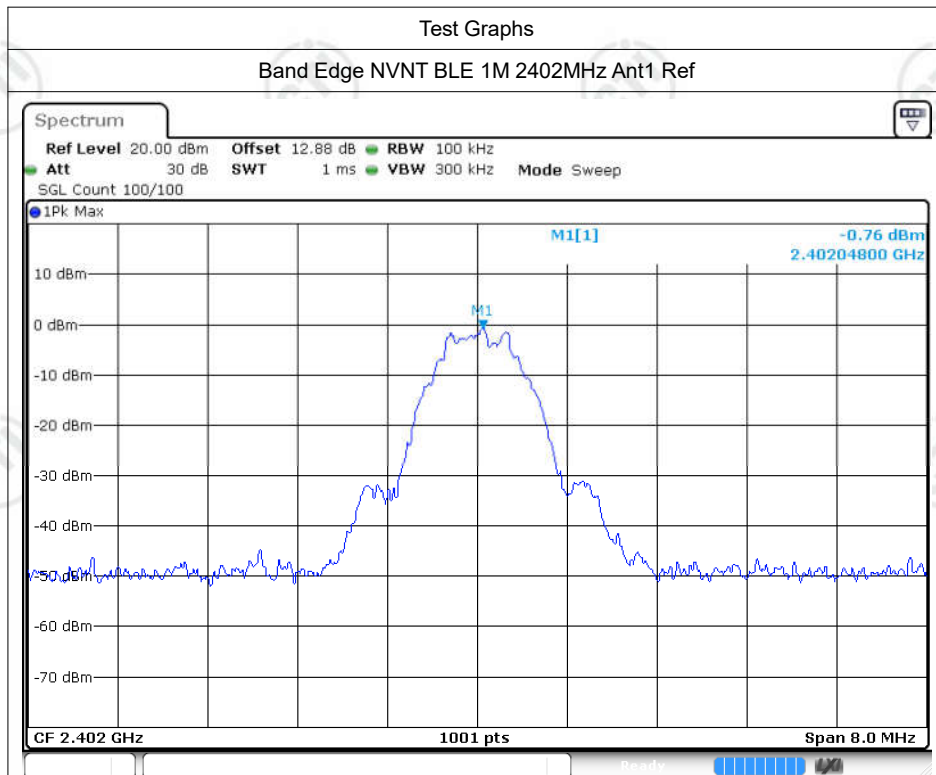
Date: 15.NOV.2022 10:41:18



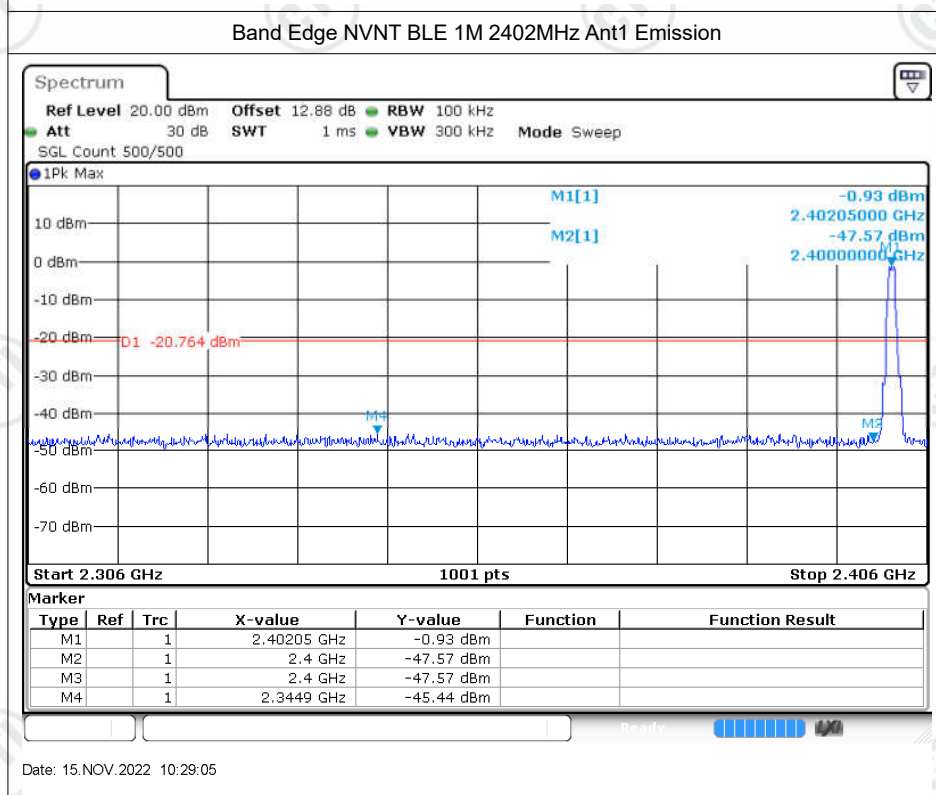
Date: 15.NOV.2022 10:42:57

Band Edge

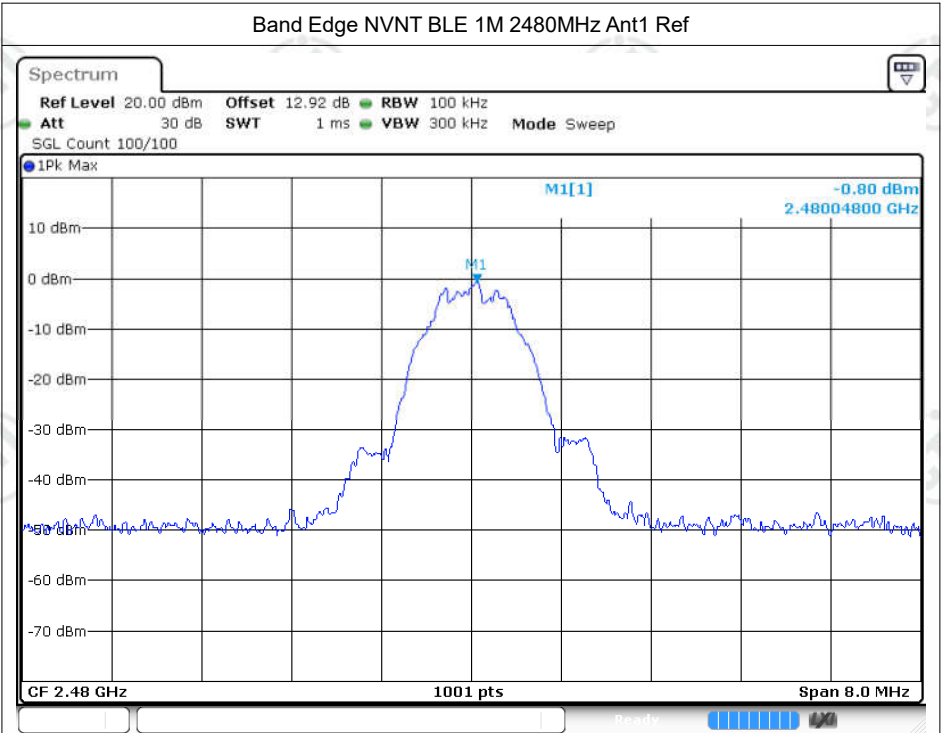
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -44.67          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -44.58          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -33.94          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -43.4           | -20         | Pass    |



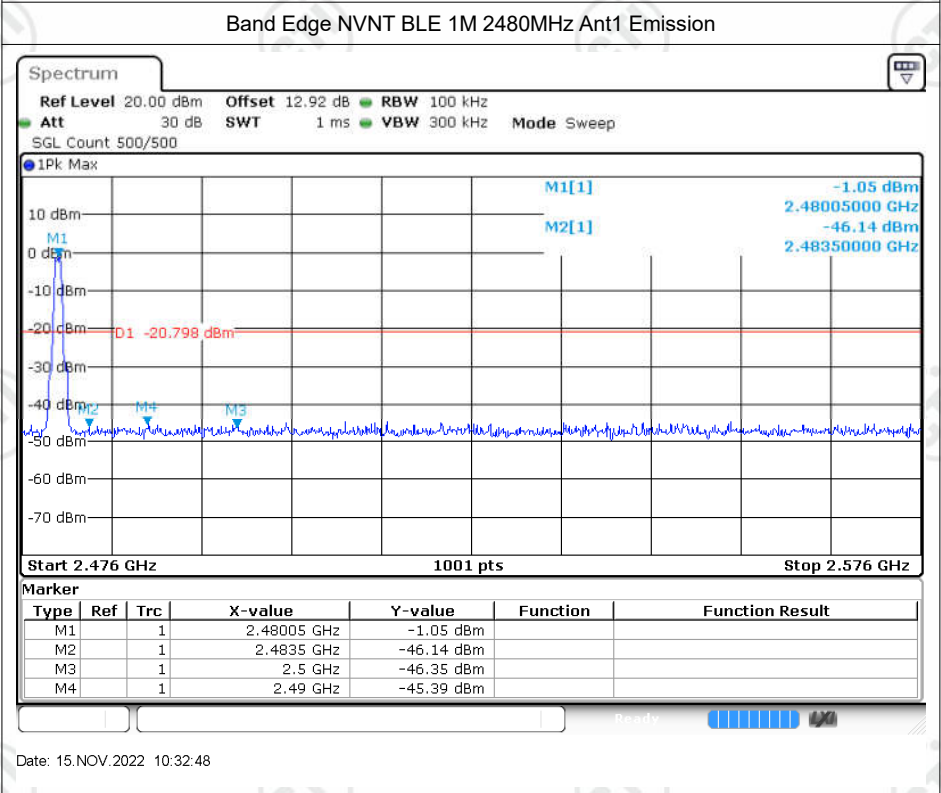
Date: 15.NOV.2022 10:29:02



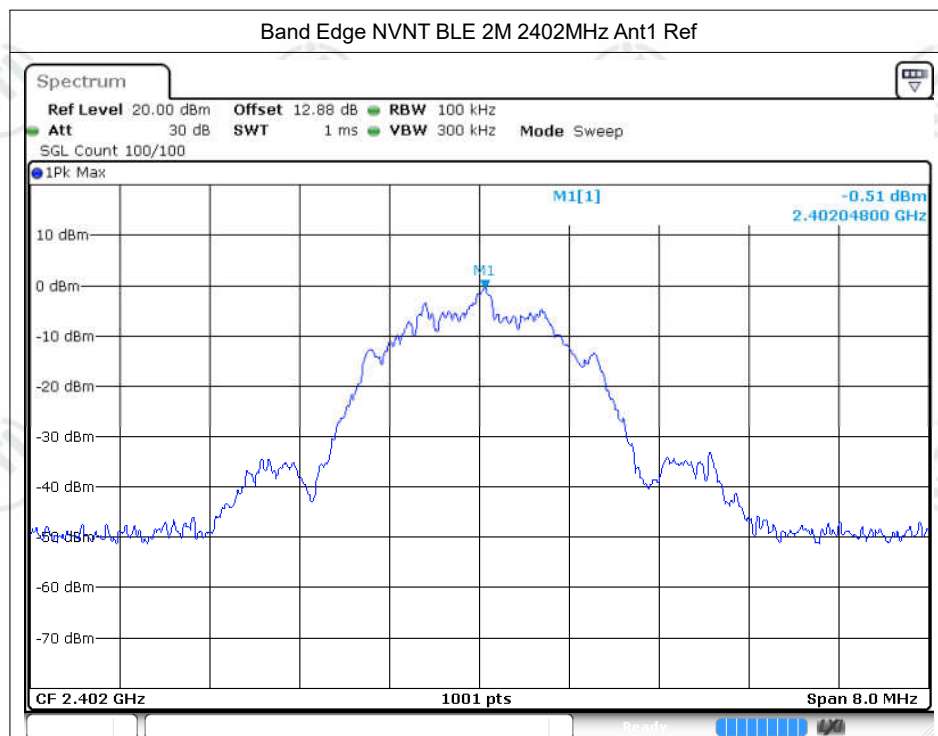
Date: 15.NOV.2022 10:29:05



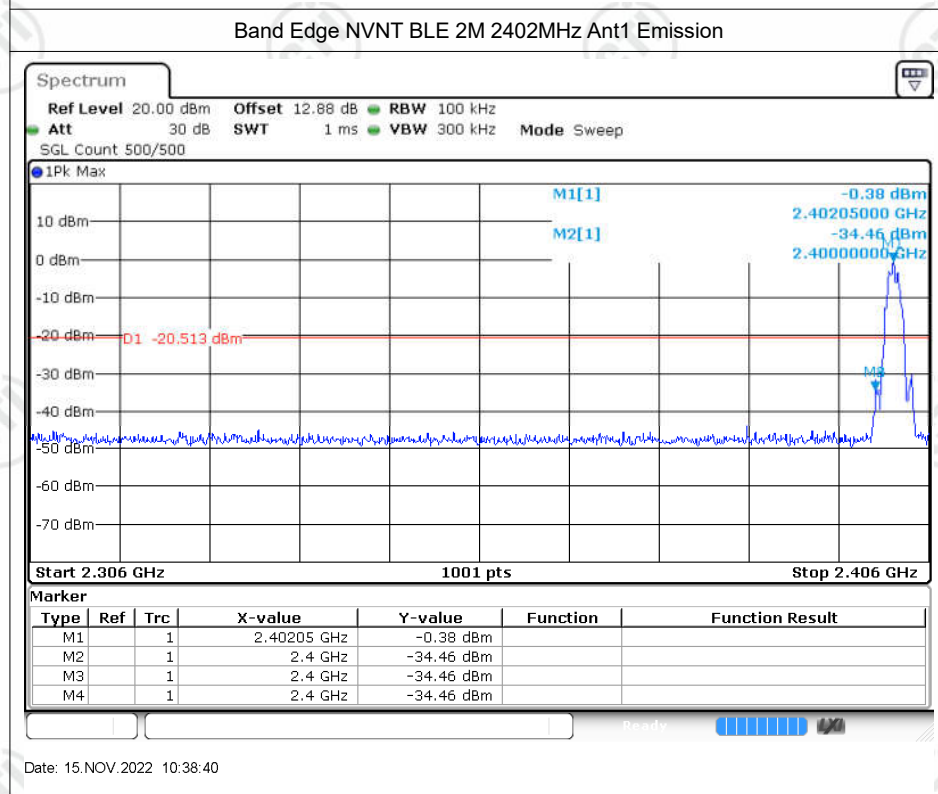
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Date: 15.NOV.2022 10:32:48

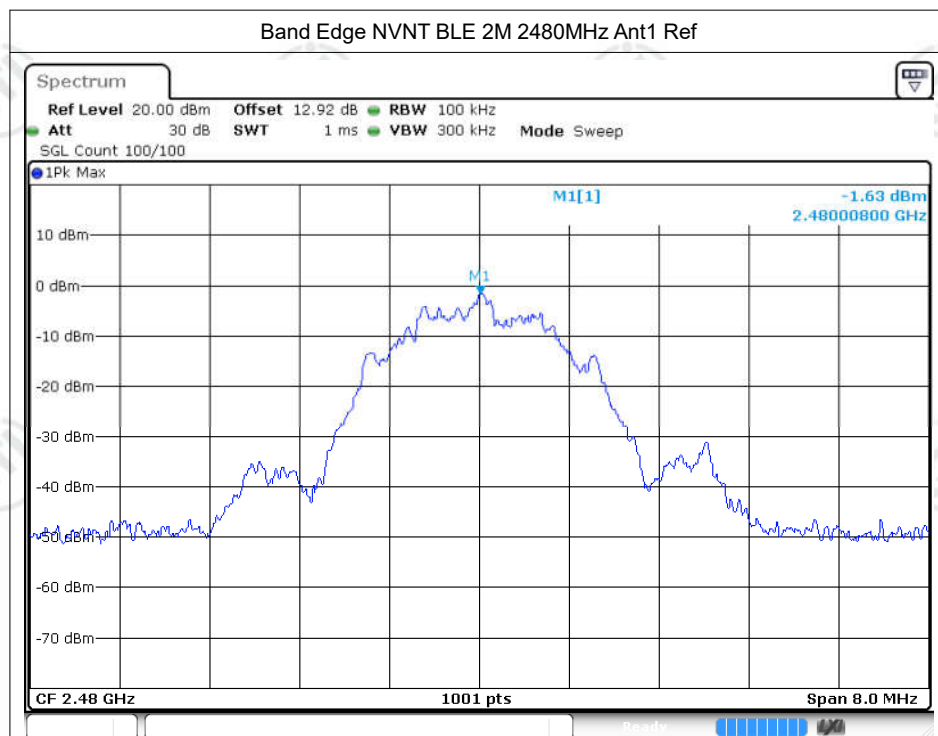


Date: 15.NOV.2022 10:38:37

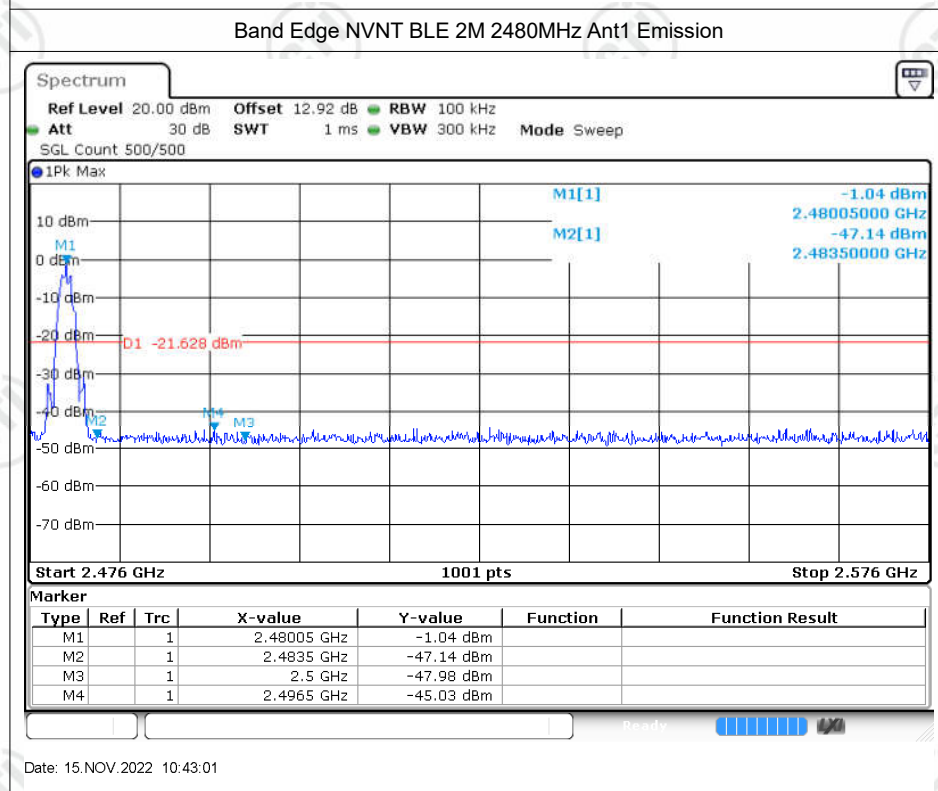


Date: 15.NOV.2022 10:38:40





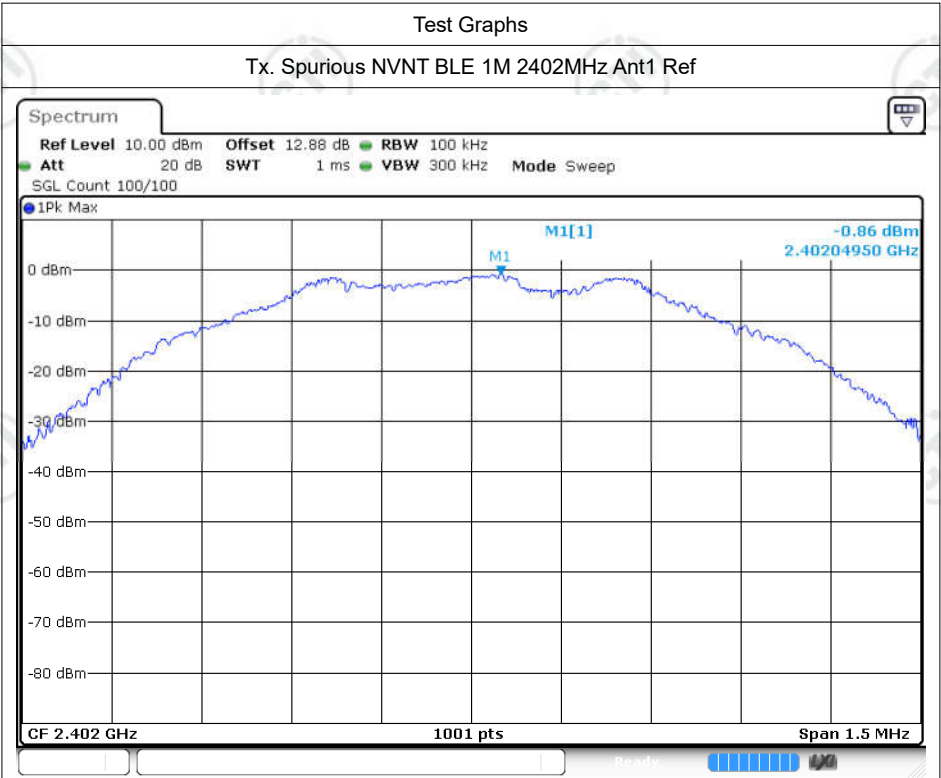
Date: 15.NOV.2022 10:42:59



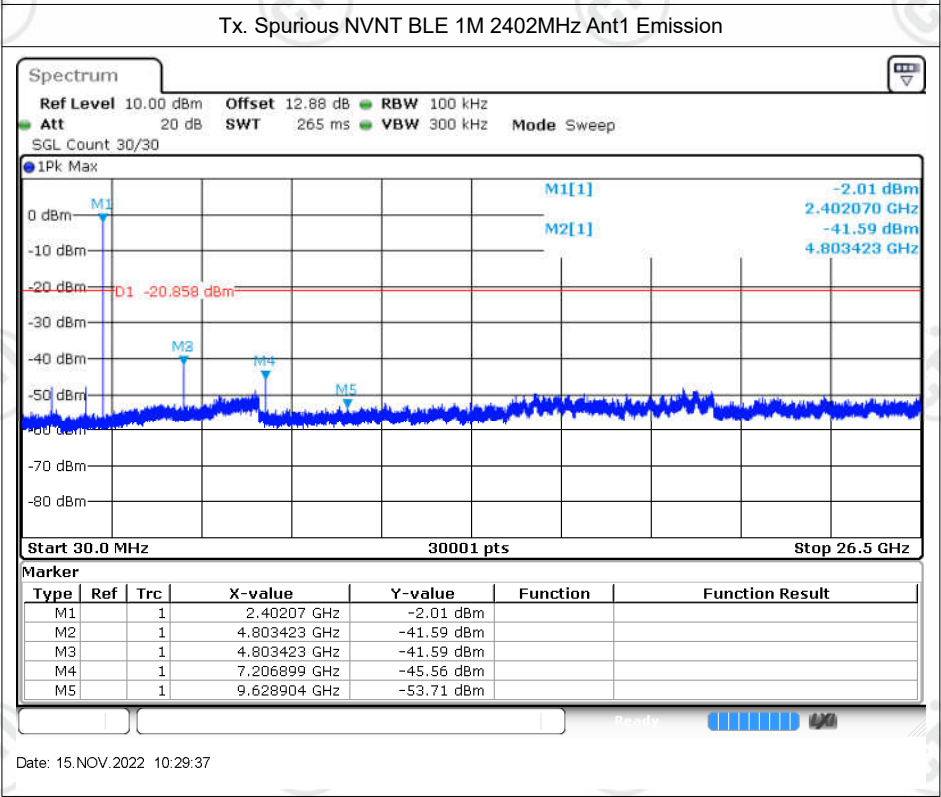
Date: 15.NOV.2022 10:43:01

Conducted RF Spurious Emission

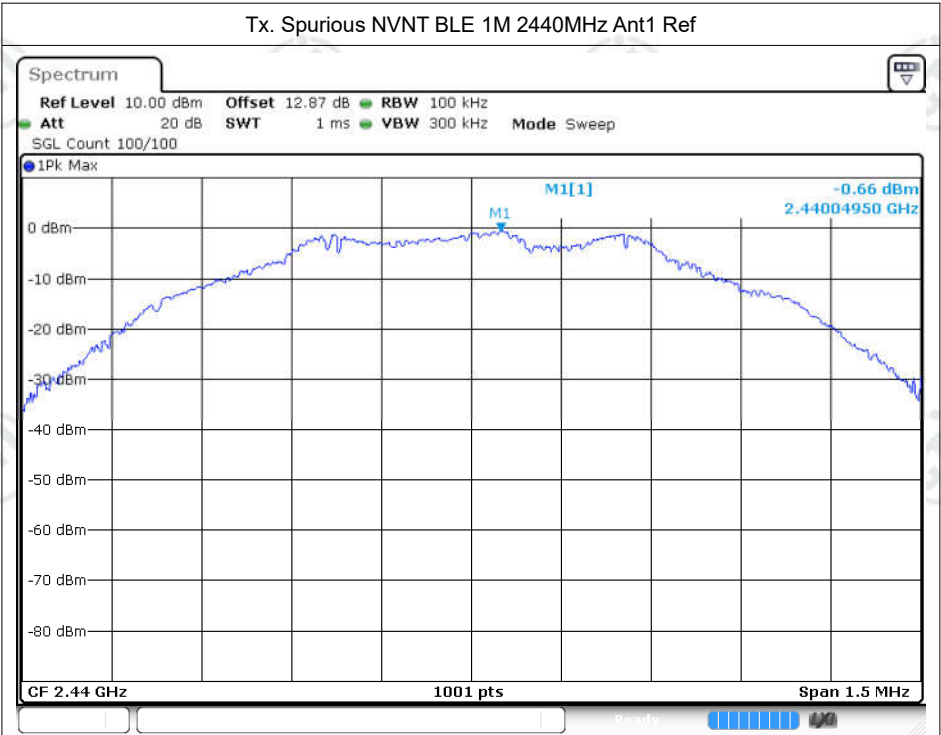
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -40.72          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -36.19          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -35.32          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -40.56          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -37.97          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -35.51          | -20         | Pass    |



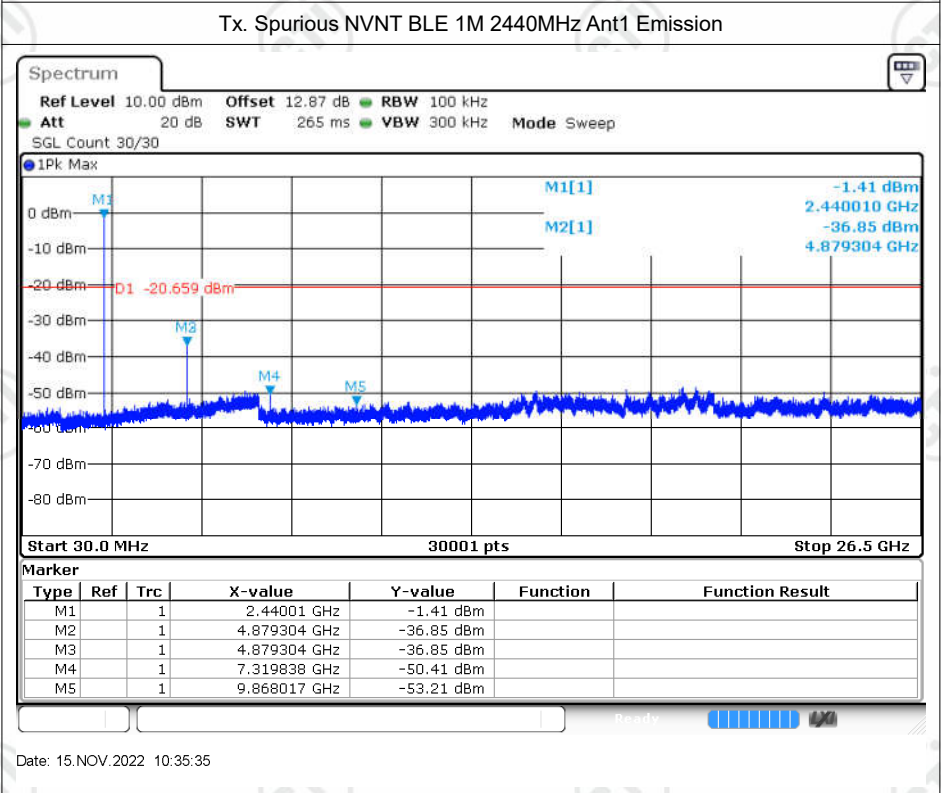
Date: 15.NOV.2022 10:29:08



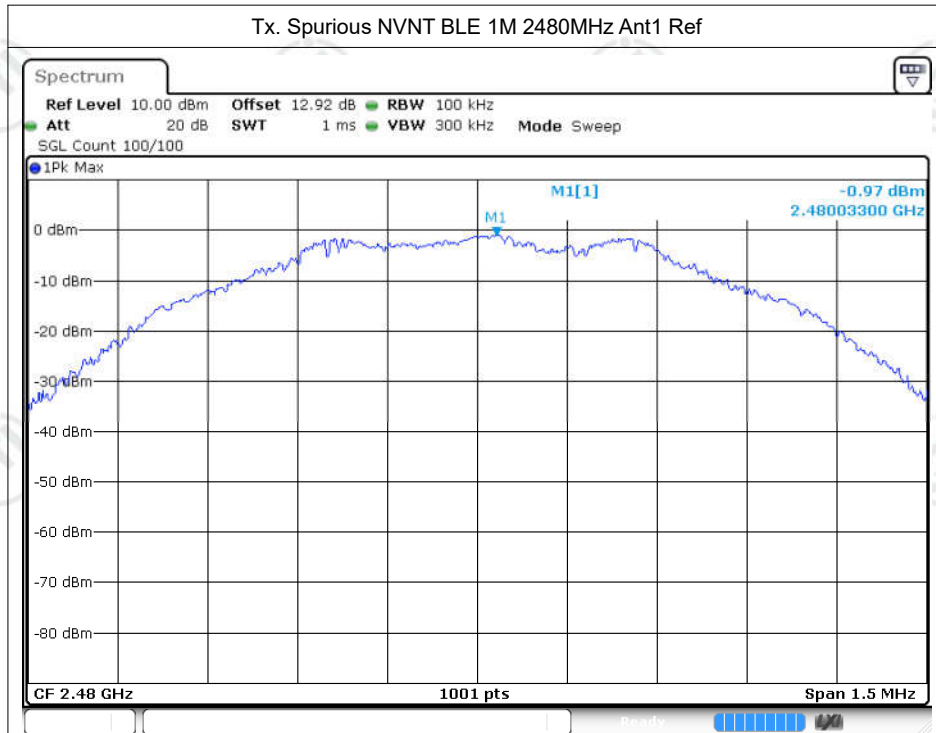
Date: 15.NOV.2022 10:29:37



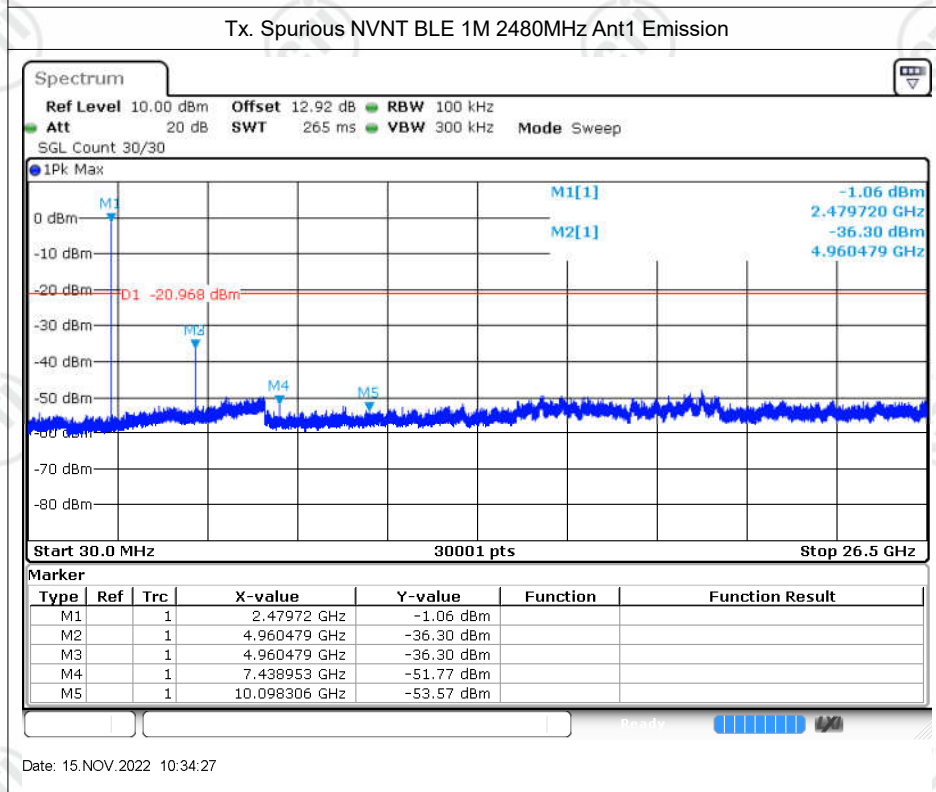
Date: 15.NOV.2022 10:35:07



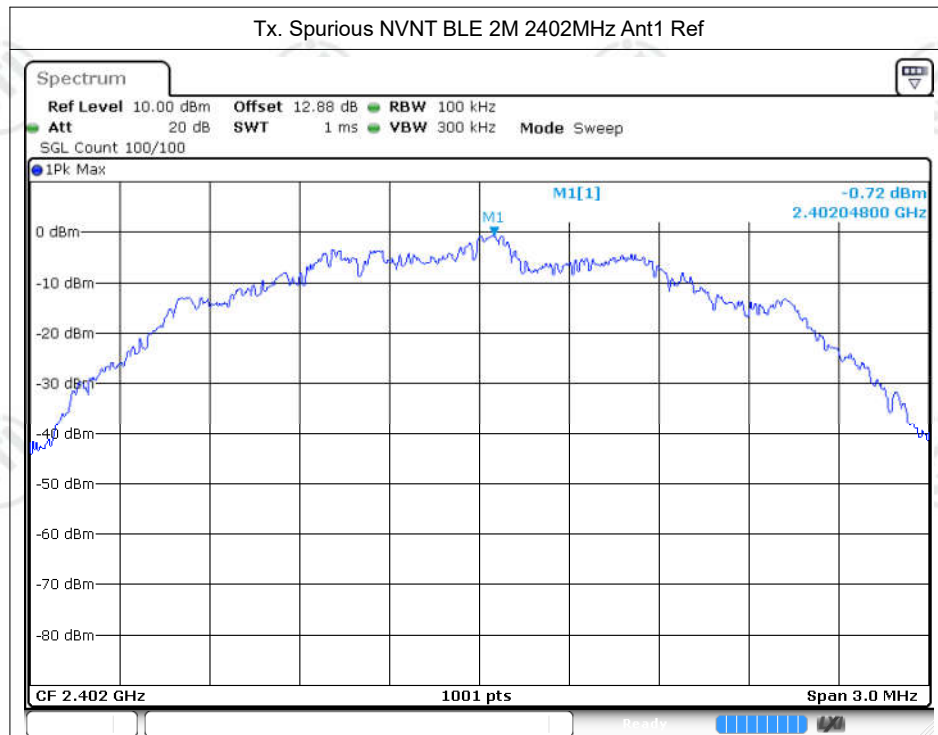
Date: 15.NOV.2022 10:35:35



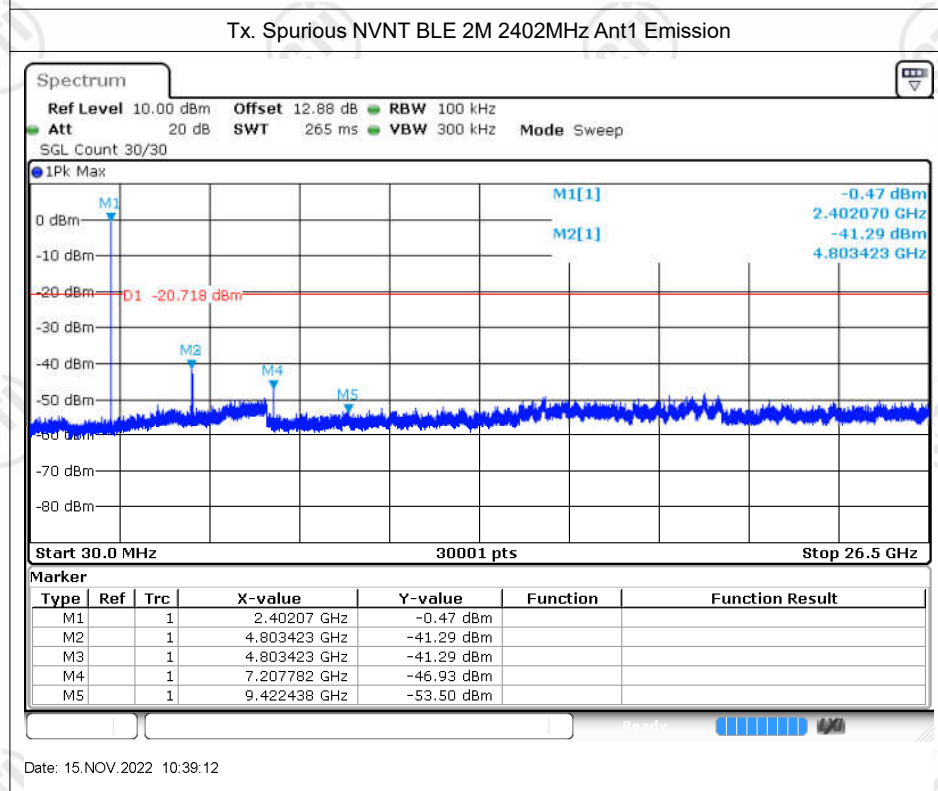
Date: 15.NOV.2022 10:33:59



Date: 15.NOV.2022 10:34:27

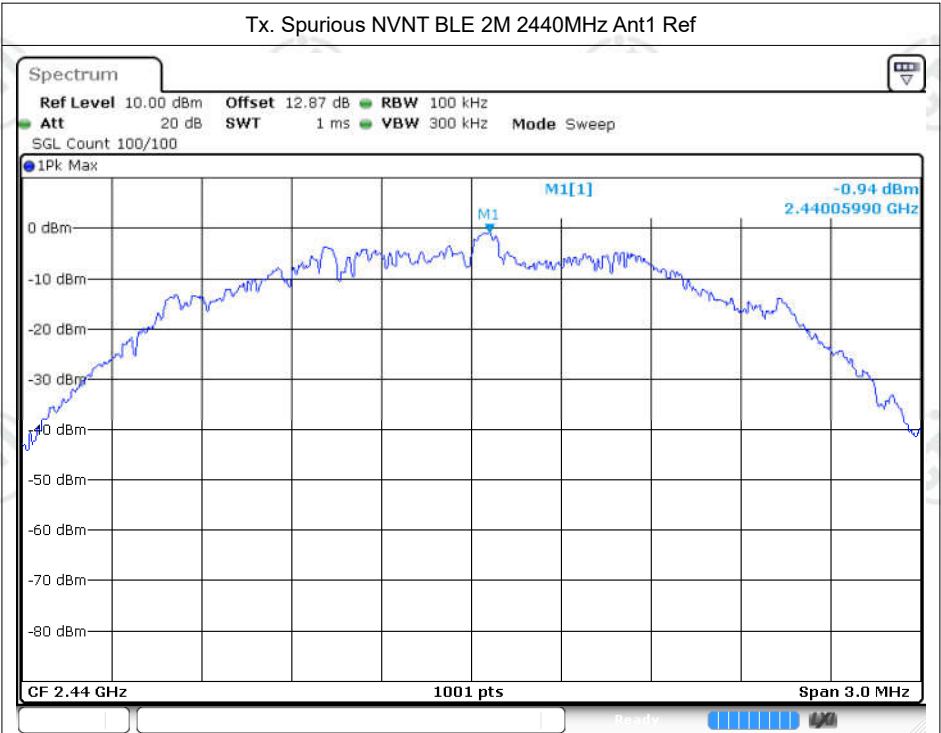


Date: 15.NOV.2022 10:38:44

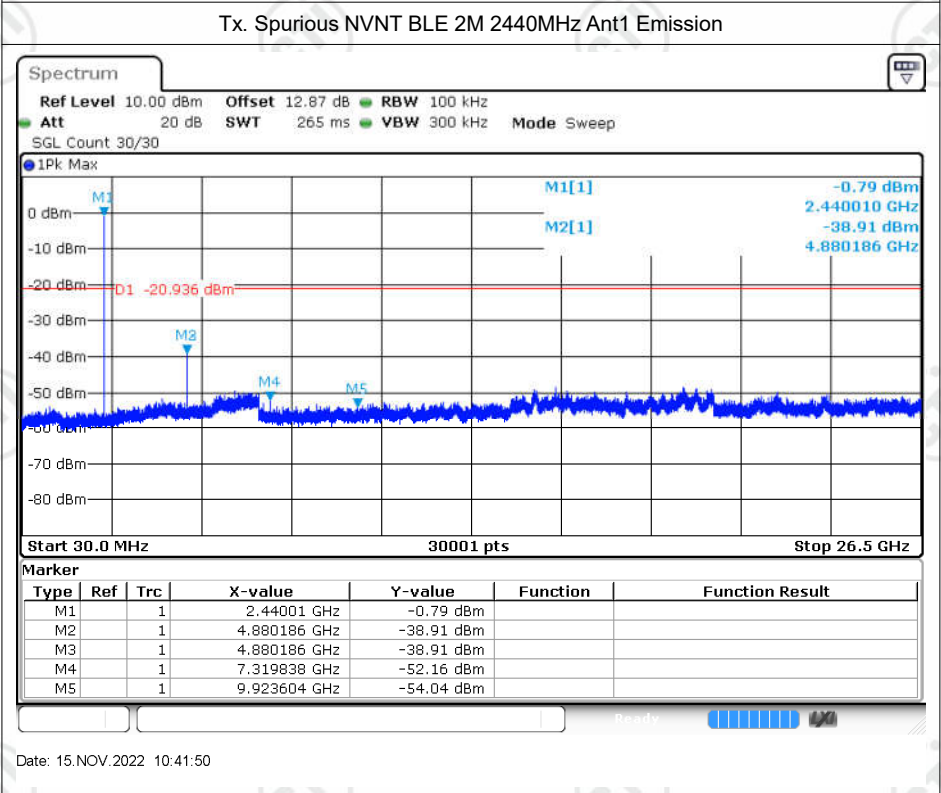


Date: 15.NOV.2022 10:39:12

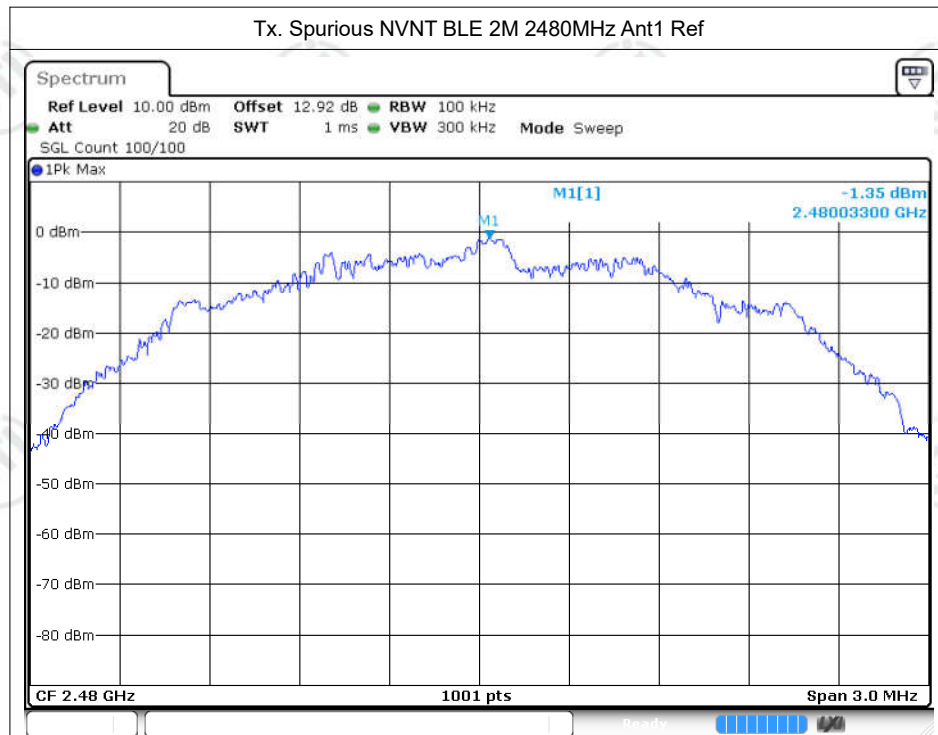




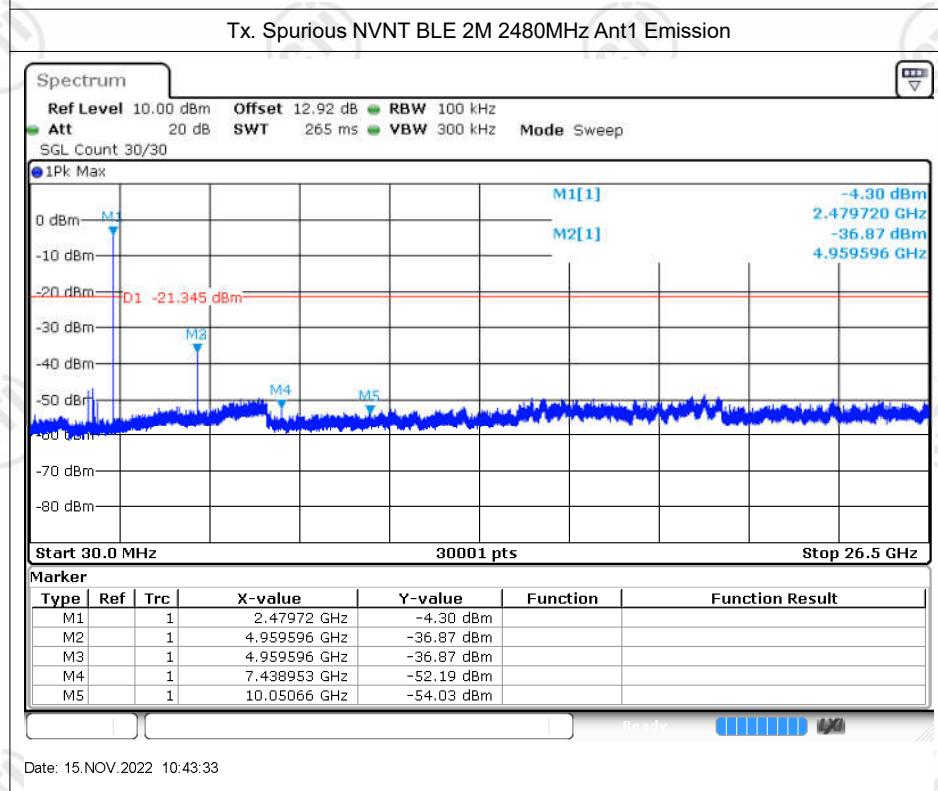
Date: 15.NOV.2022 10:41:21



Date: 15.NOV.2022 10:41:50



Date: 15.NOV.2022 10:43:05



Date: 15.NOV.2022 10:43:33

\*\*\* End of Report \*\*\*