

## Appendix: Bluetooth LE

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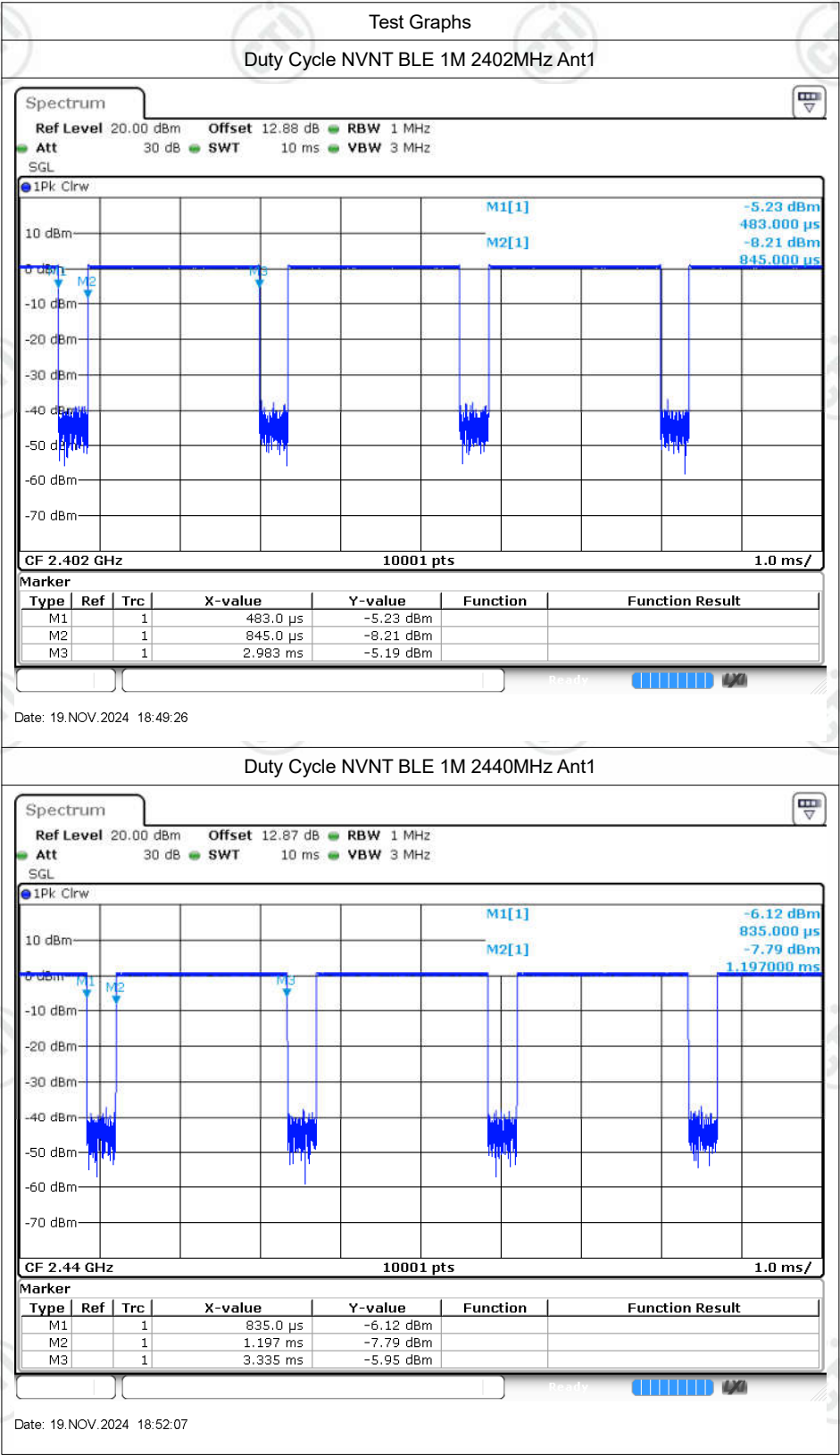
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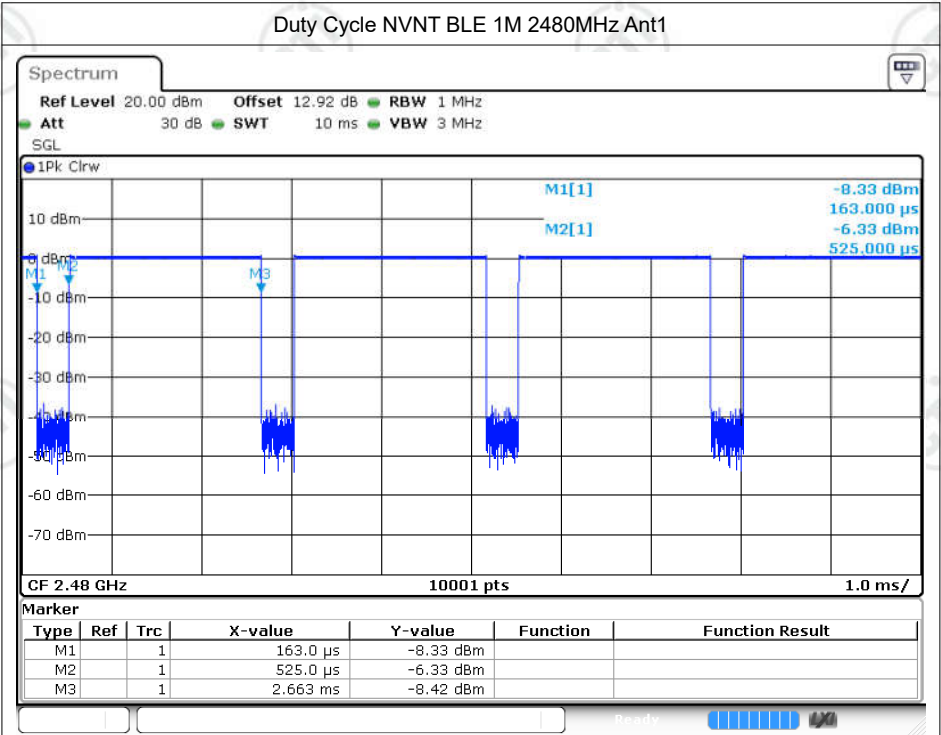
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Duty Cycle

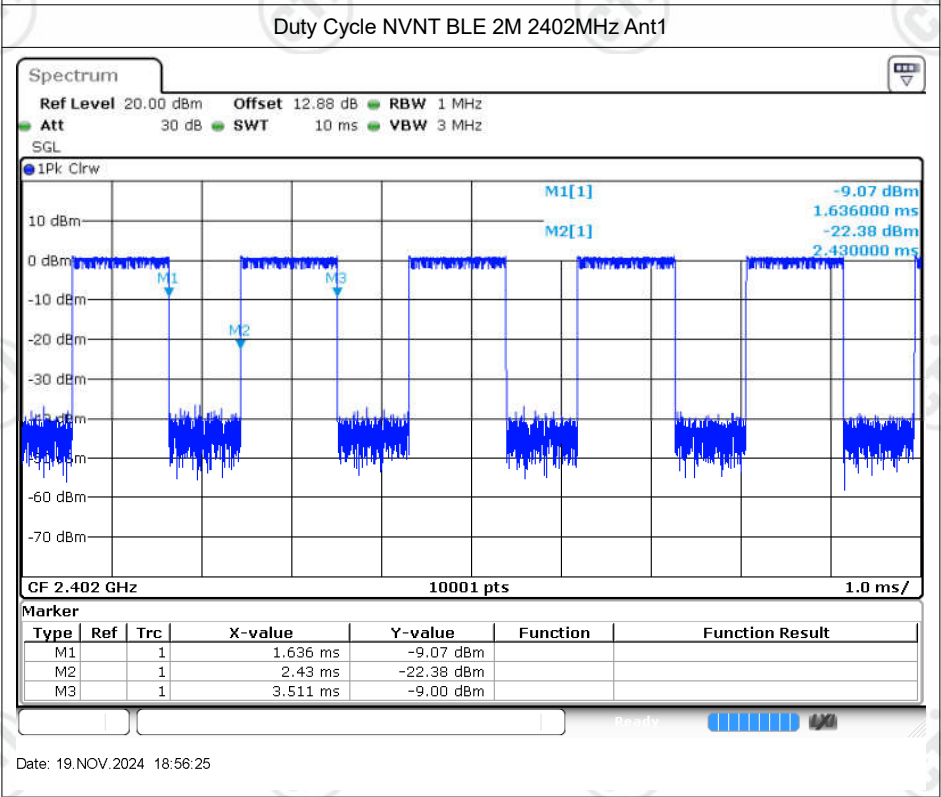
| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Duty Cycle factor(dB) |
|-----------|--------|-----------------|---------|----------------|-----------------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 85.52          | 0.68                  |
| NVNT      | BLE 1M | 2440            | Ant1    | 85.52          | 0.68                  |
| NVNT      | BLE 1M | 2480            | Ant1    | 85.52          | 0.68                  |
| NVNT      | BLE 2M | 2402            | Ant1    | 57.65          | 2.39                  |
| NVNT      | BLE 2M | 2440            | Ant1    | 57.65          | 2.39                  |
| NVNT      | BLE 2M | 2480            | Ant1    | 57.65          | 2.39                  |

Note:Duty Cycle factor(dB)=-10\*Ig(Duty Cycle);

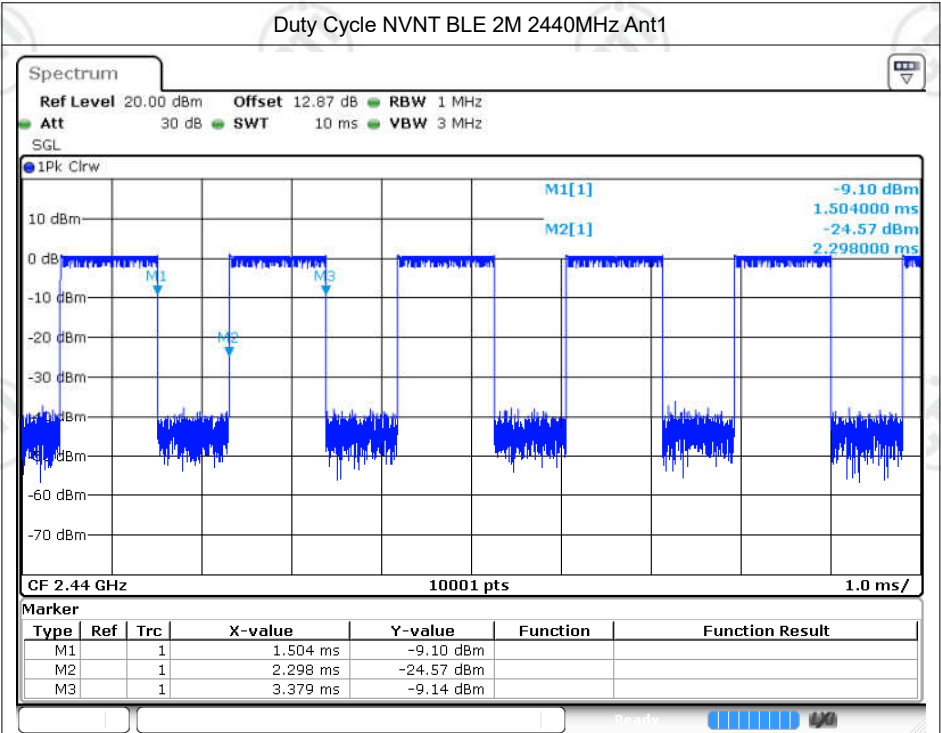




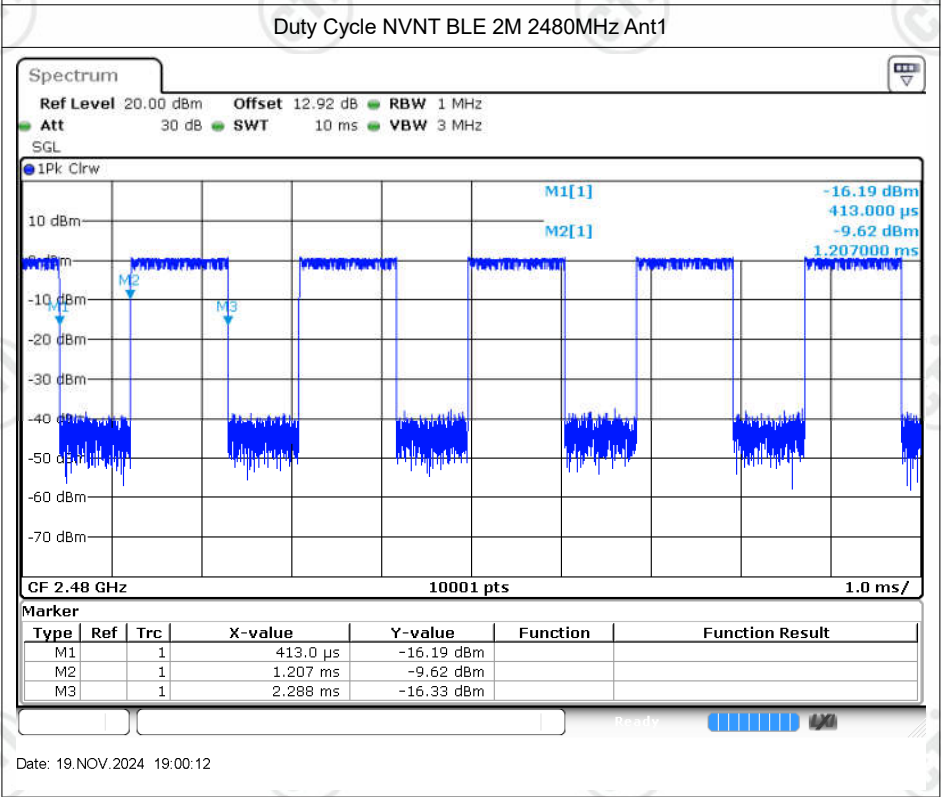
Date: 19.NOV.2024 18:54:16



Date: 19.NOV.2024 18:56:25



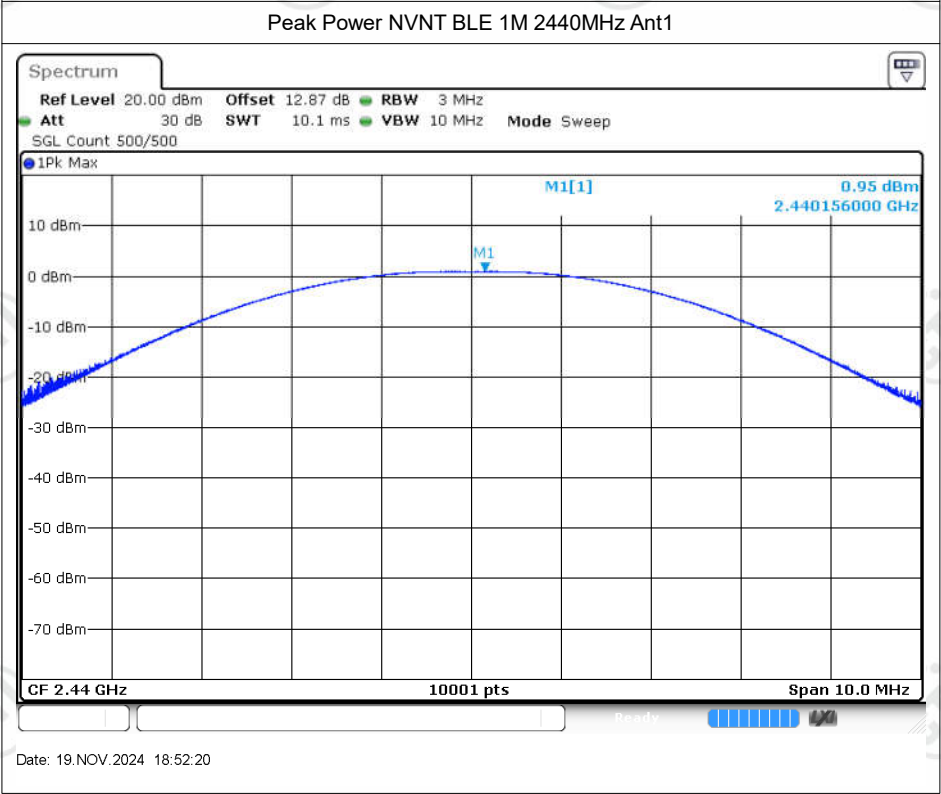
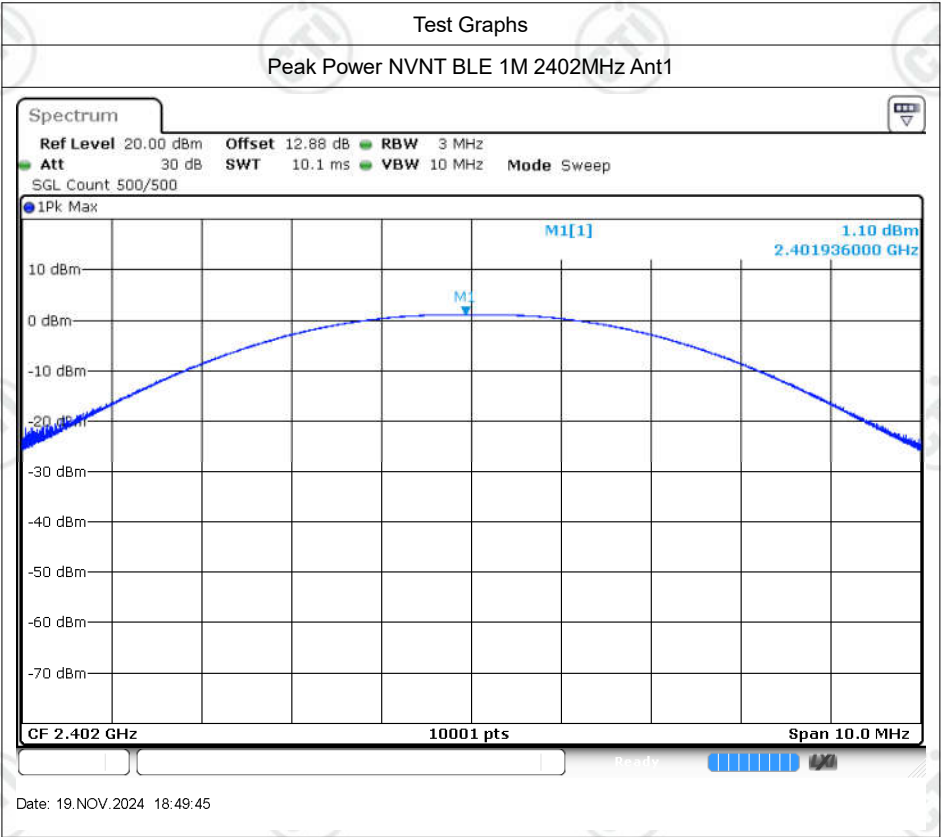
Date: 19.NOV.2024 18:58:23

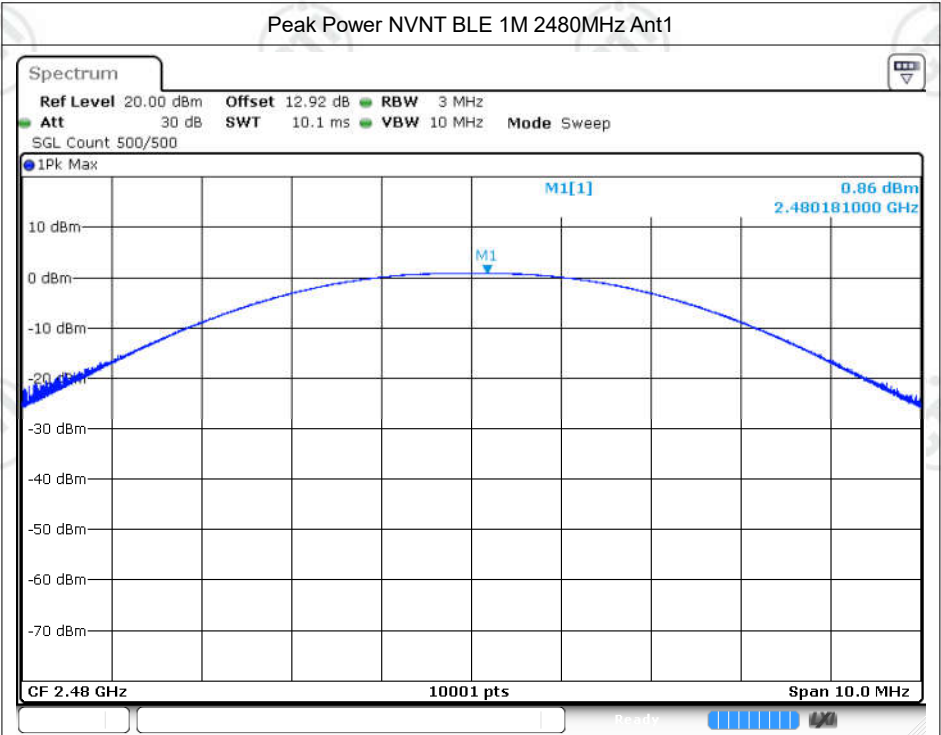


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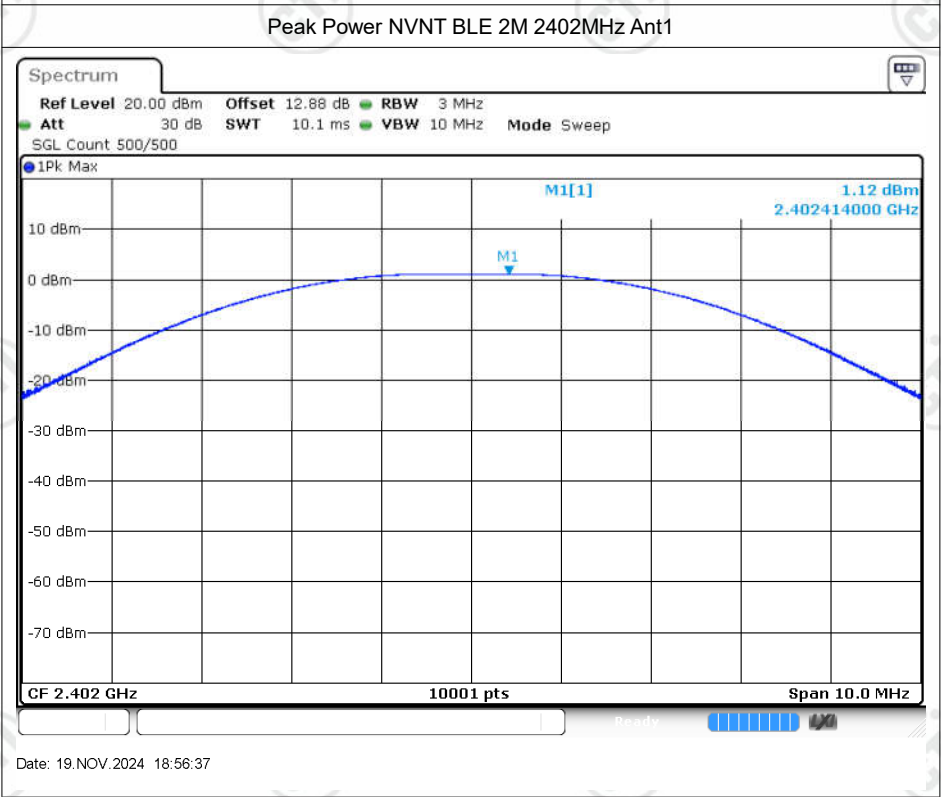
Maximum Peak Conducted Output Power

| Condition | Mode   | Frequency<br>(MHz) | Antenna | Conducted Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|--------|--------------------|---------|--------------------------|----------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | 1.10                     | 30             | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | 0.95                     | 30             | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 0.86                     | 30             | Pass    |
| NVNT      | BLE 2M | 2402               | Ant1    | 1.12                     | 30             | Pass    |
| NVNT      | BLE 2M | 2440               | Ant1    | 0.97                     | 30             | Pass    |
| NVNT      | BLE 2M | 2480               | Ant1    | 0.89                     | 30             | Pass    |

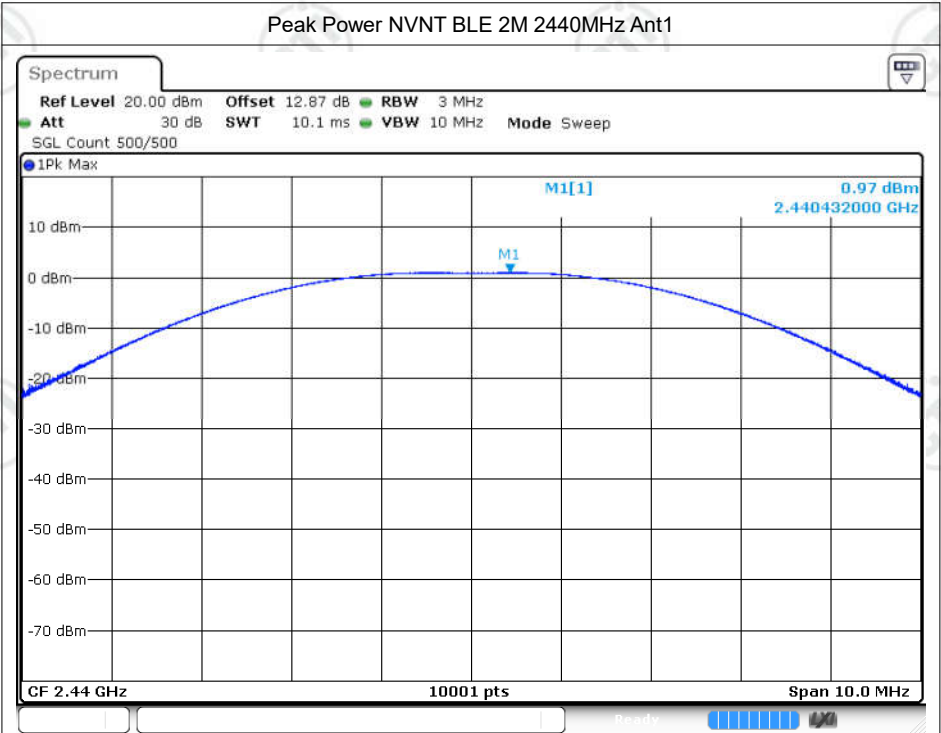




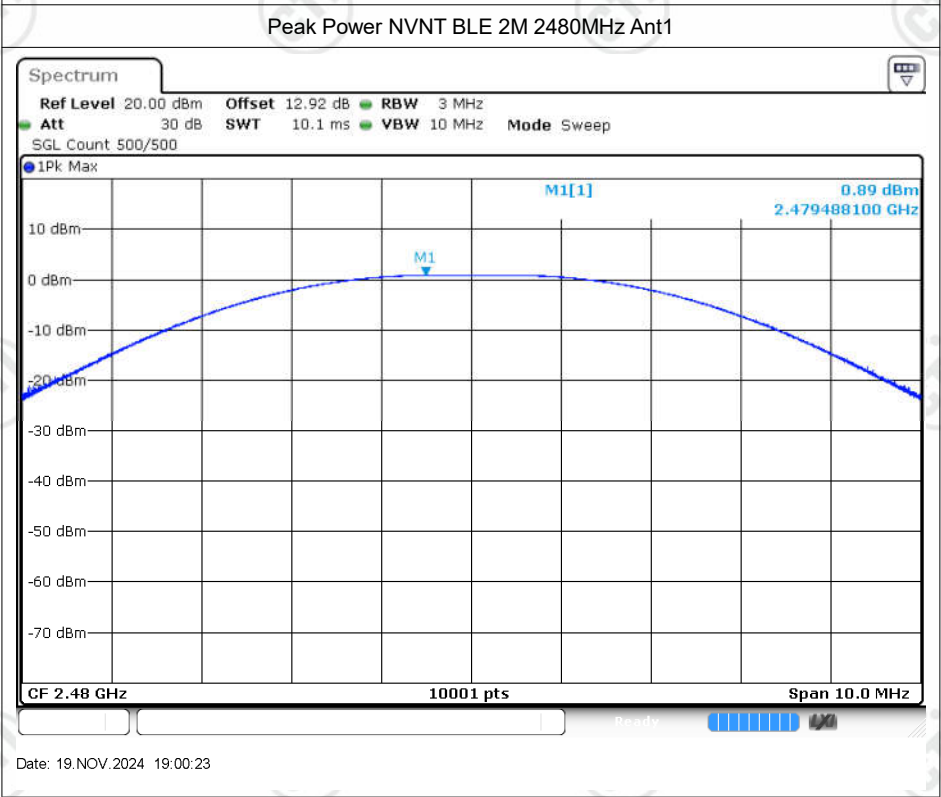
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Date: 19.NOV.2024 18:56:37



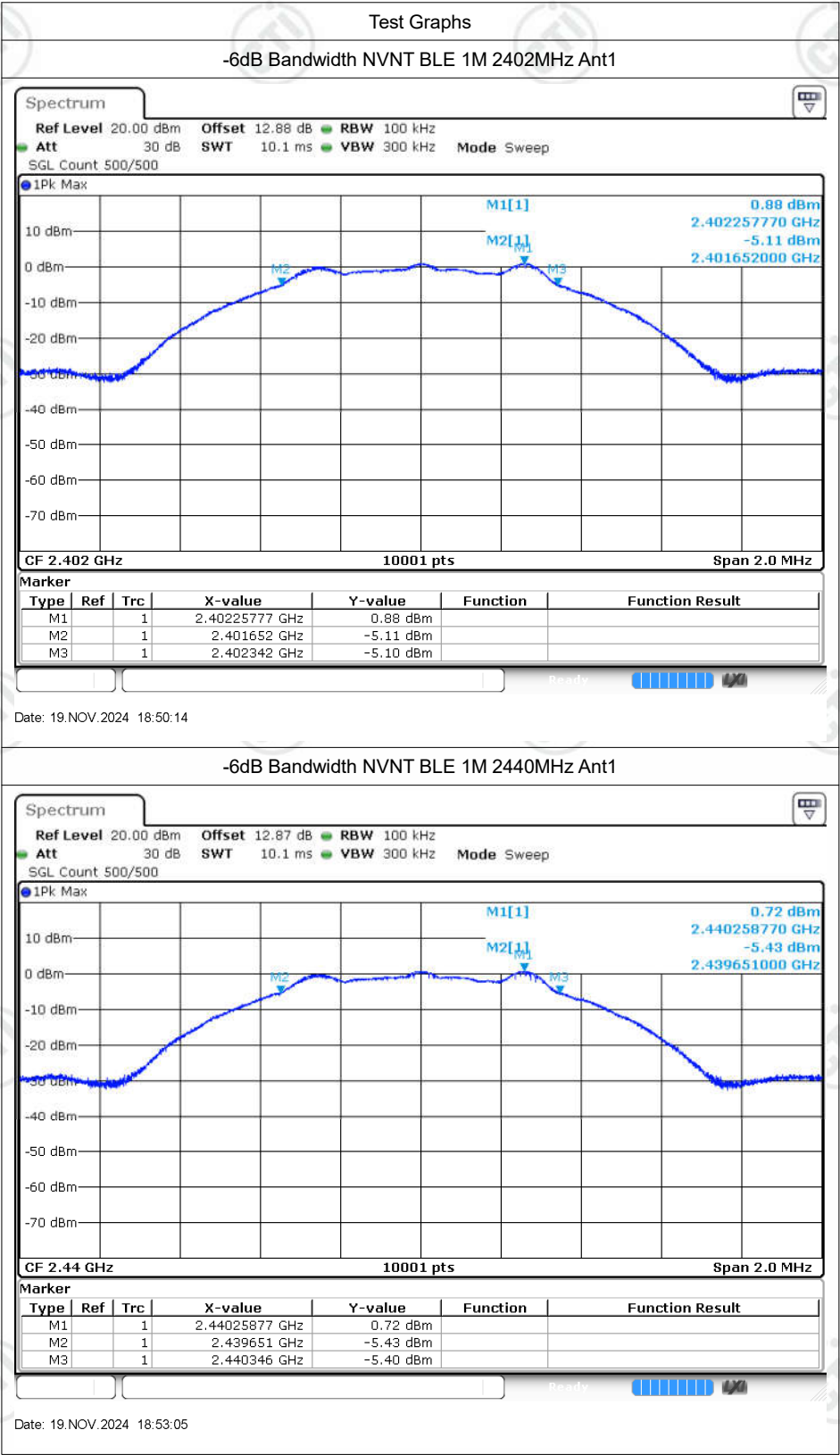
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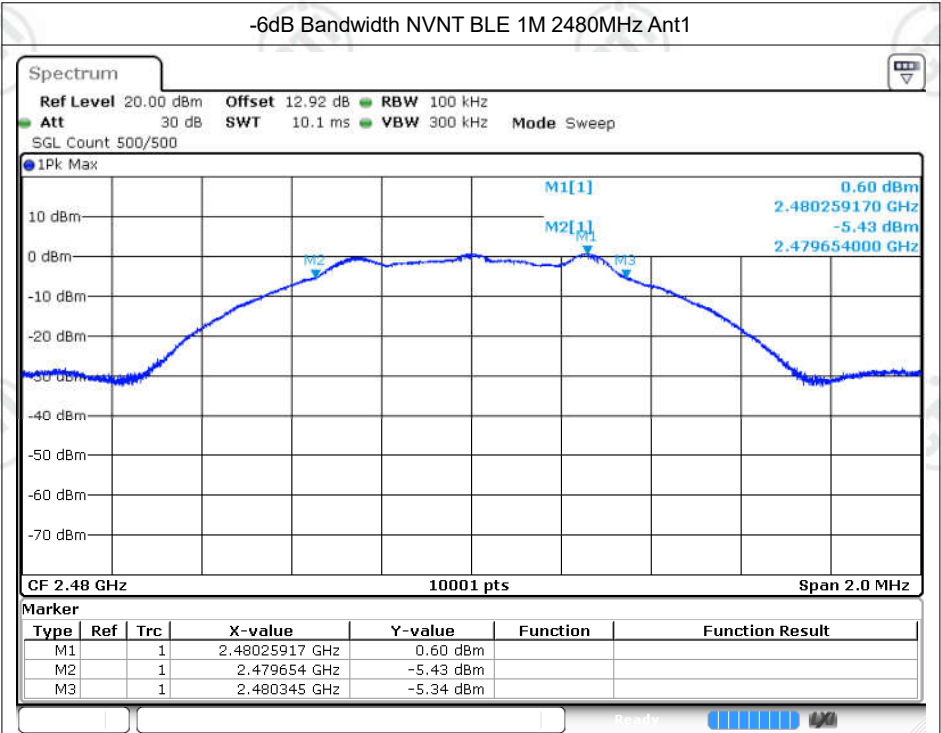


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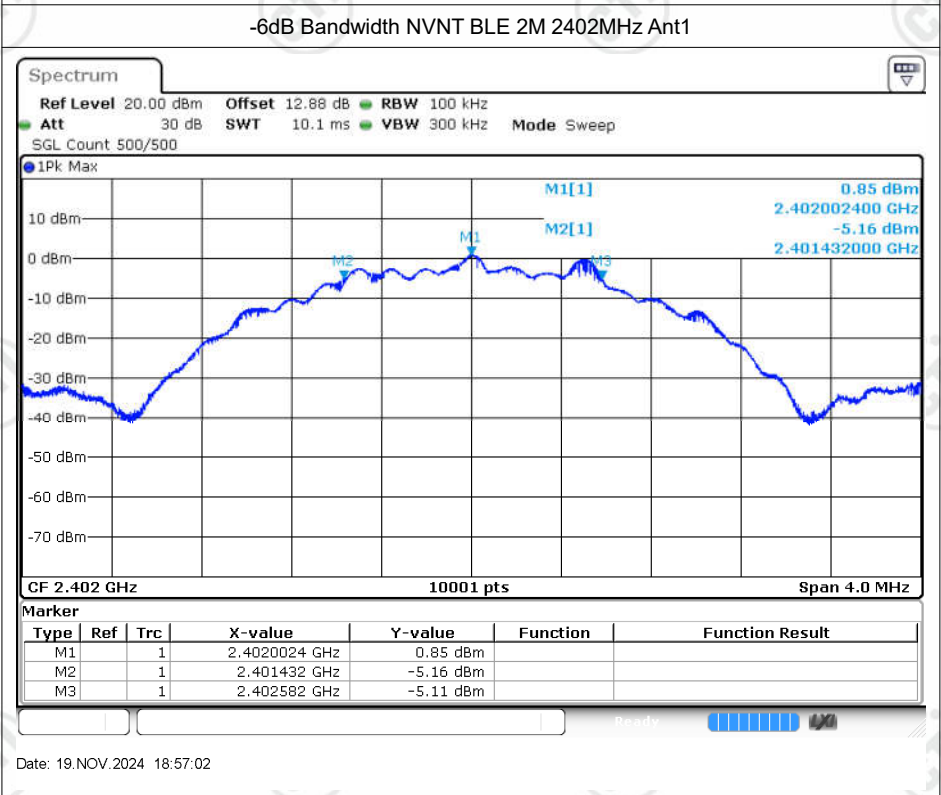
-6dB Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.69                  | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.695                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.691                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.15                  | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.142                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.144                 | 0.5                         | Pass    |

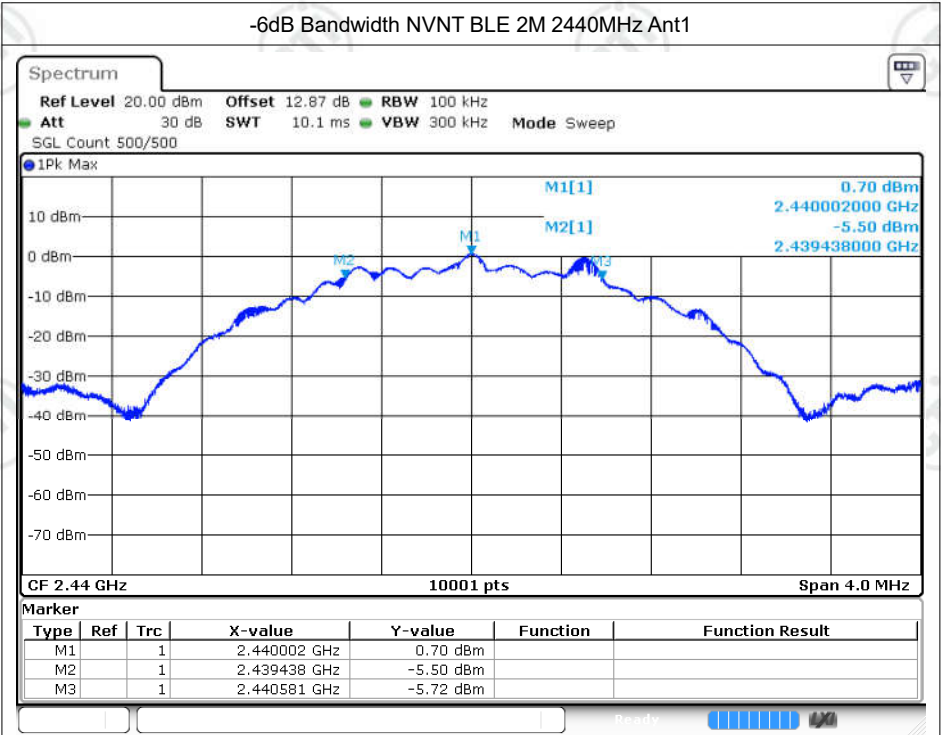




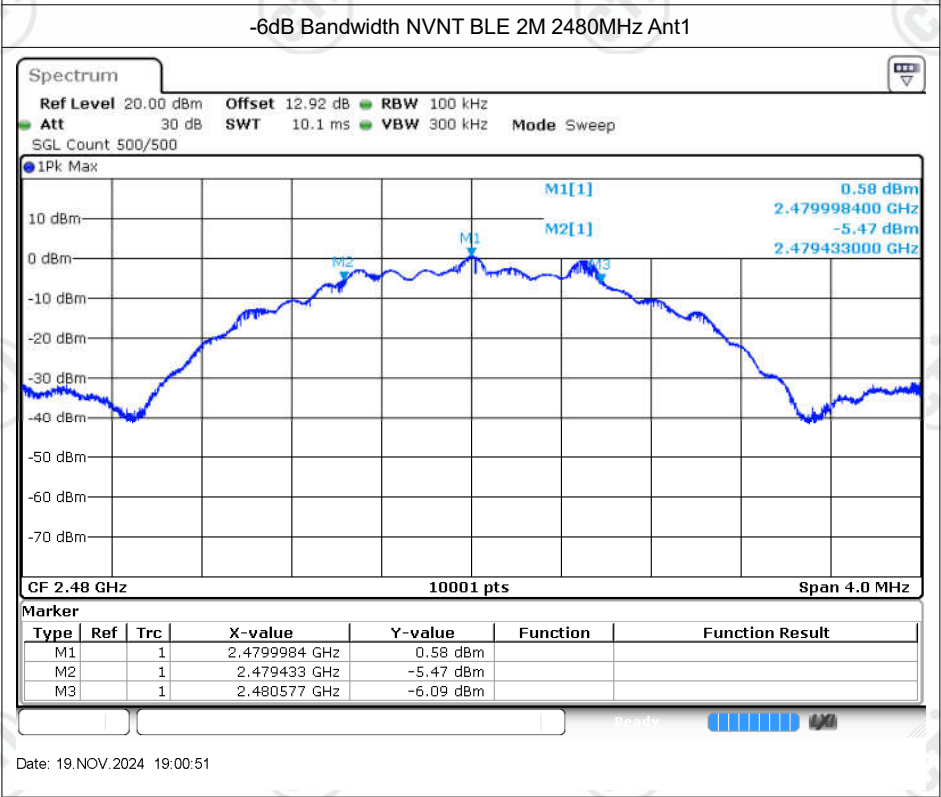
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Date: 19.NOV.2024 18:57:02



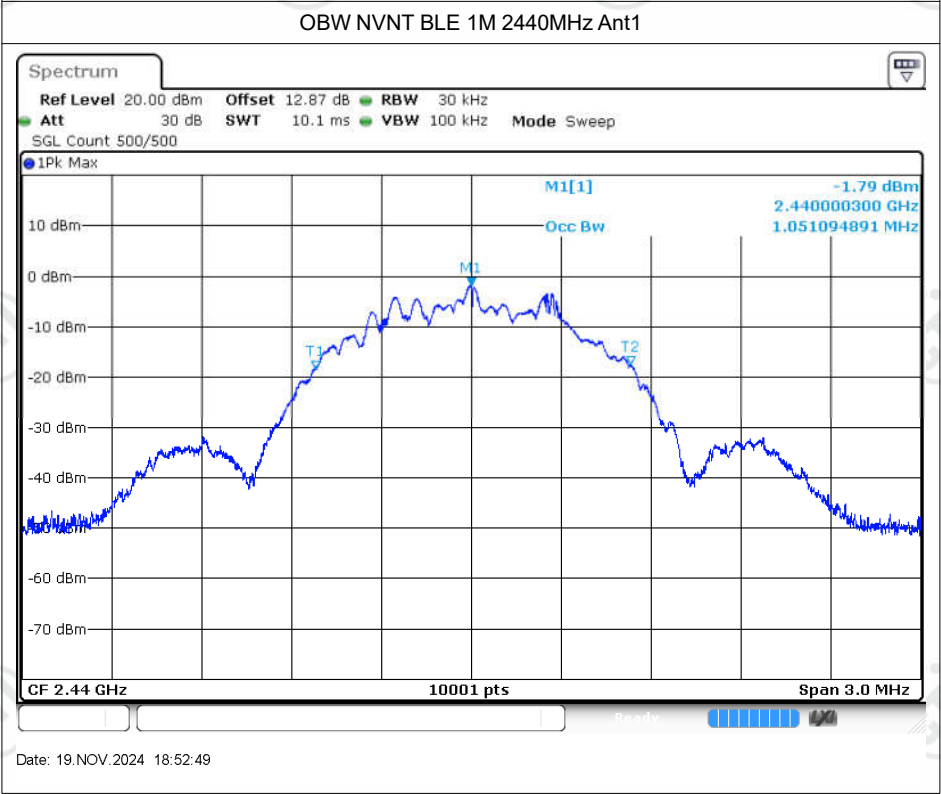
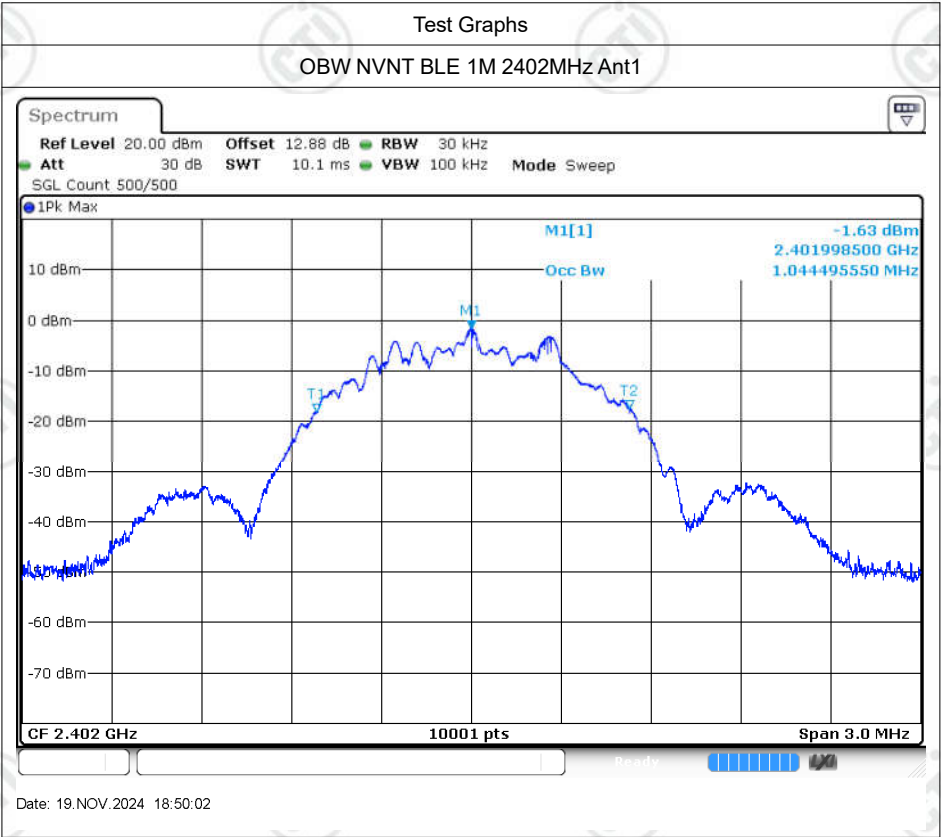
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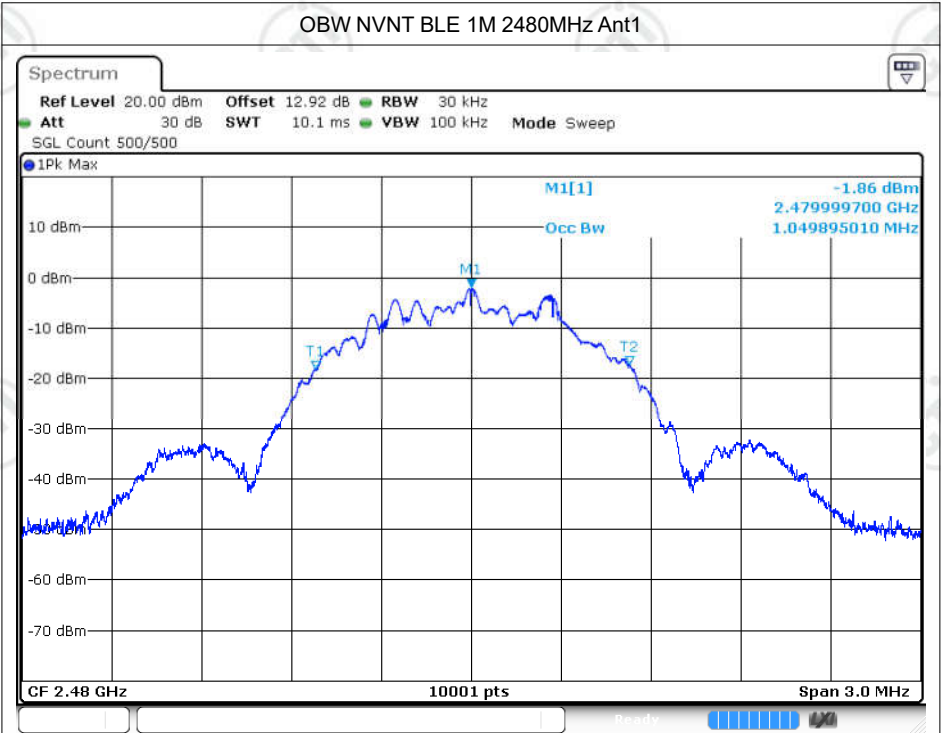


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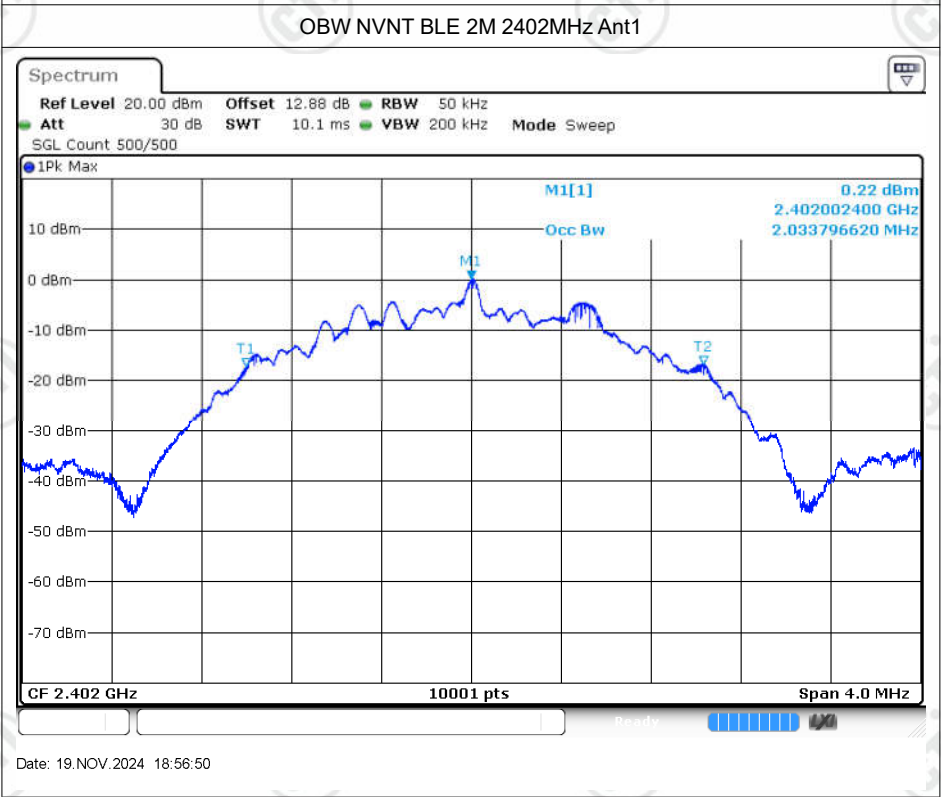
Occupied Channel Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.044         |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.051         |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.050         |
| NVNT      | BLE 2M | 2402            | Ant1    | 2.034         |
| NVNT      | BLE 2M | 2440            | Ant1    | 2.035         |
| NVNT      | BLE 2M | 2480            | Ant1    | 2.040         |

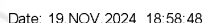




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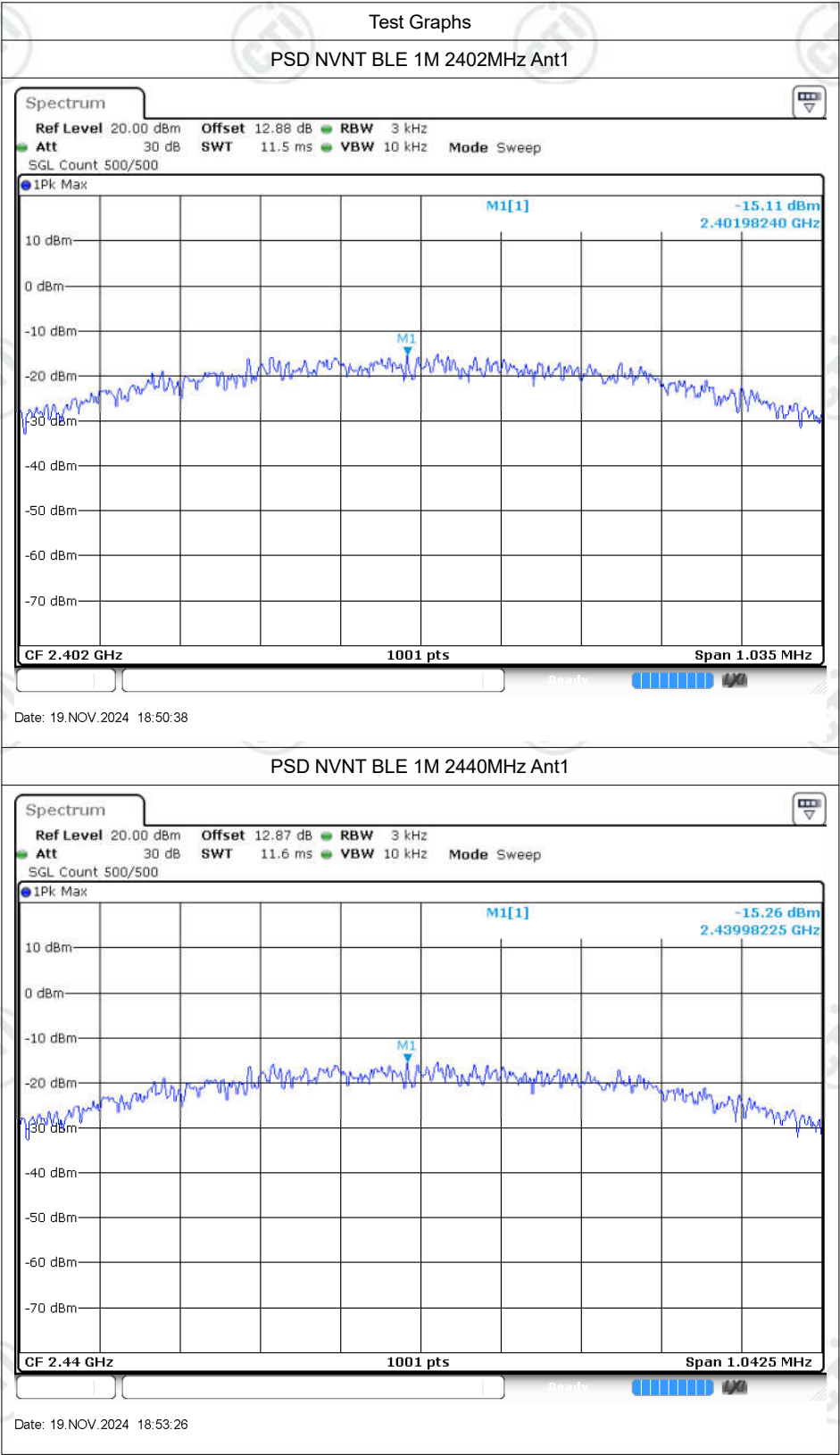


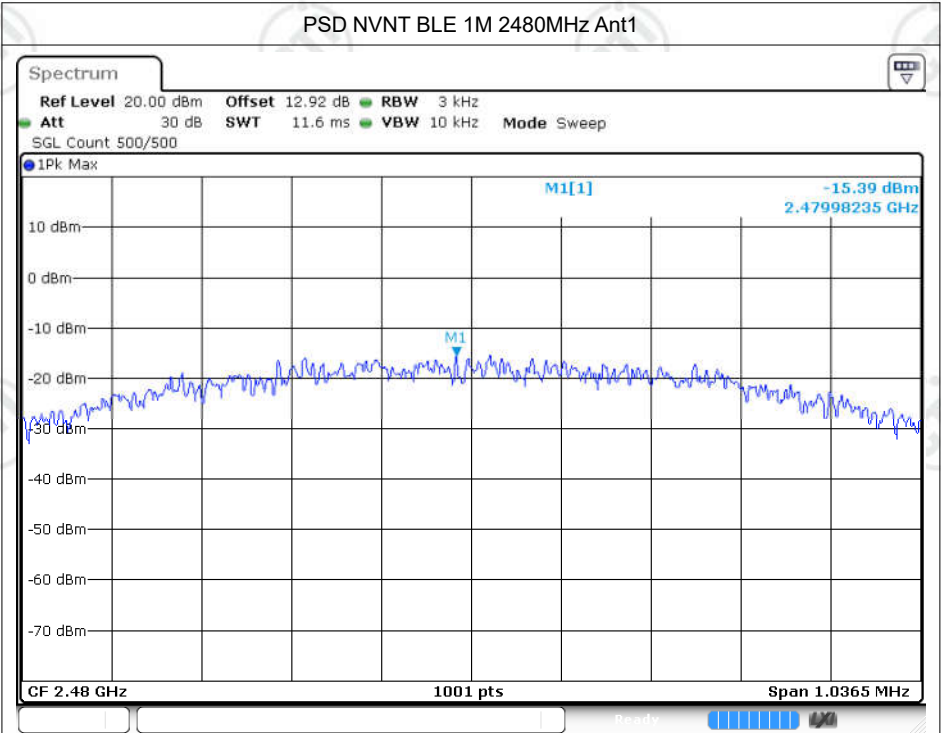
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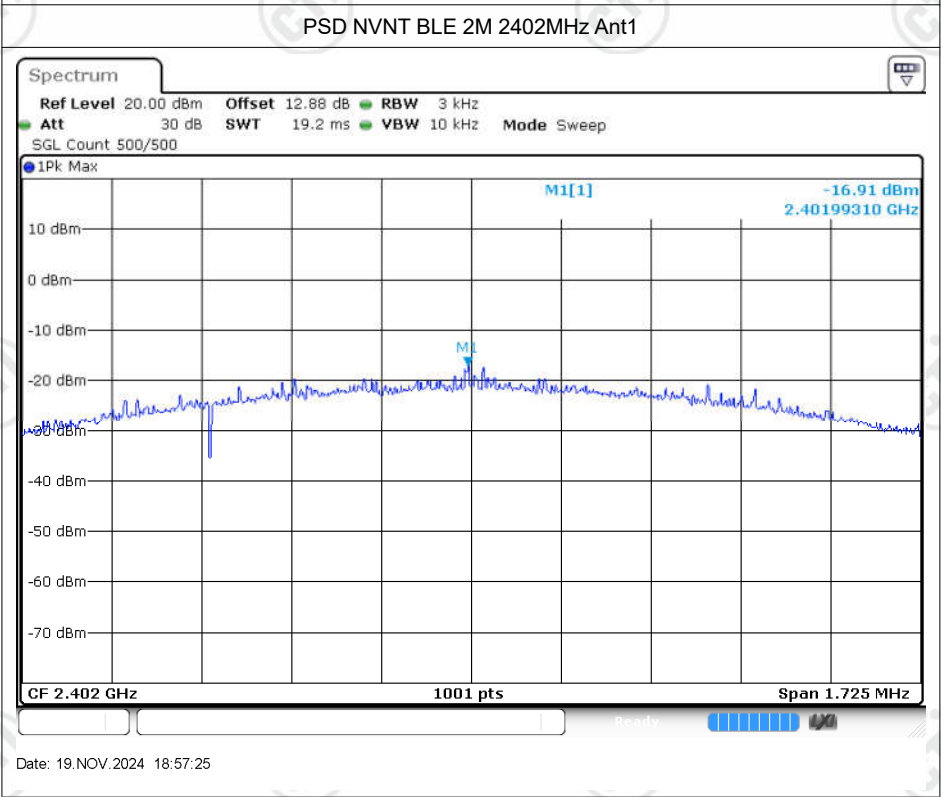
Maximum Power Spectral Density Level

| Condition | Mode   | Frequency<br>(MHz) | Antenna | Conducted PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|--------|--------------------|---------|-----------------------------|---------------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | -15.11                      | 8                   | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | -15.26                      | 8                   | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | -15.39                      | 8                   | Pass    |
| NVNT      | BLE 2M | 2402               | Ant1    | -16.91                      | 8                   | Pass    |
| NVNT      | BLE 2M | 2440               | Ant1    | -17.02                      | 8                   | Pass    |
| NVNT      | BLE 2M | 2480               | Ant1    | -17.15                      | 8                   | Pass    |

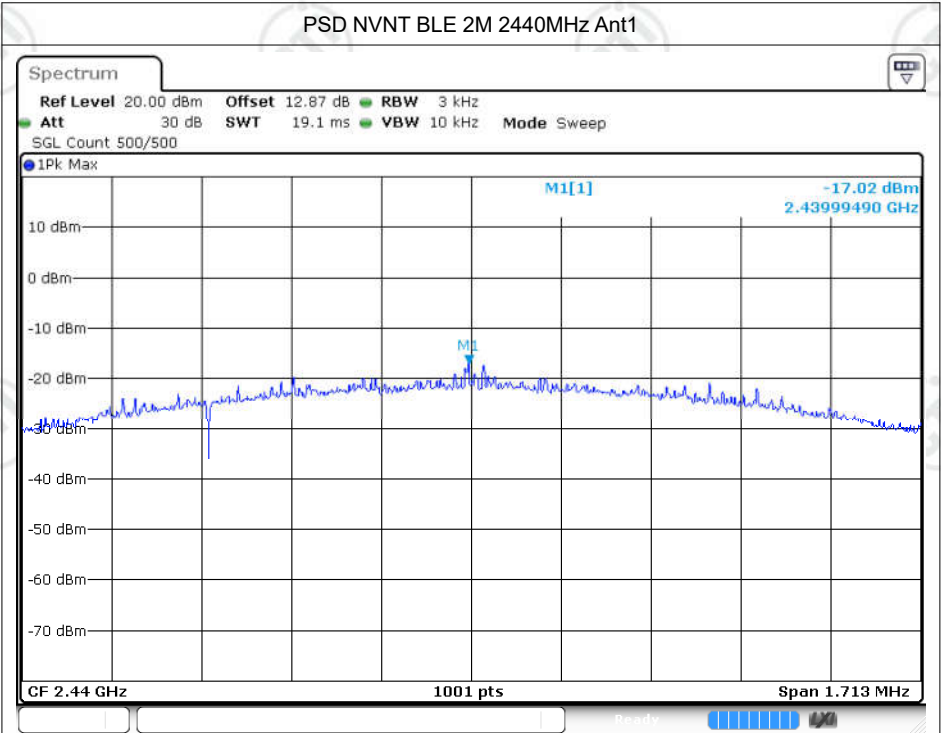




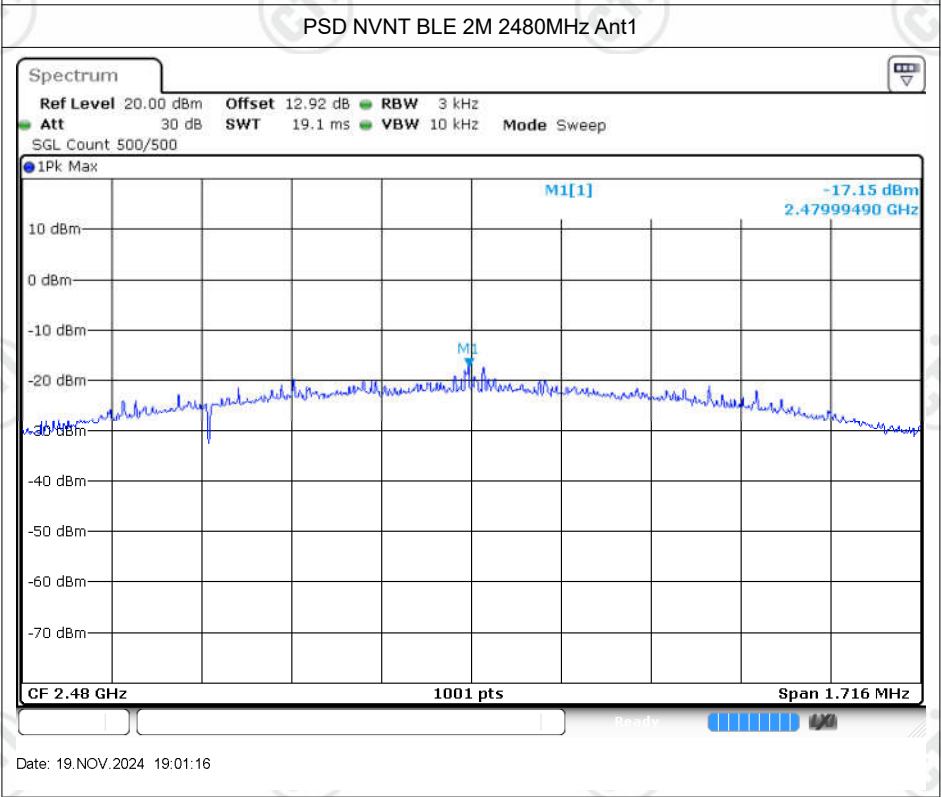
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Date: 19.NOV.2024 18:57:25



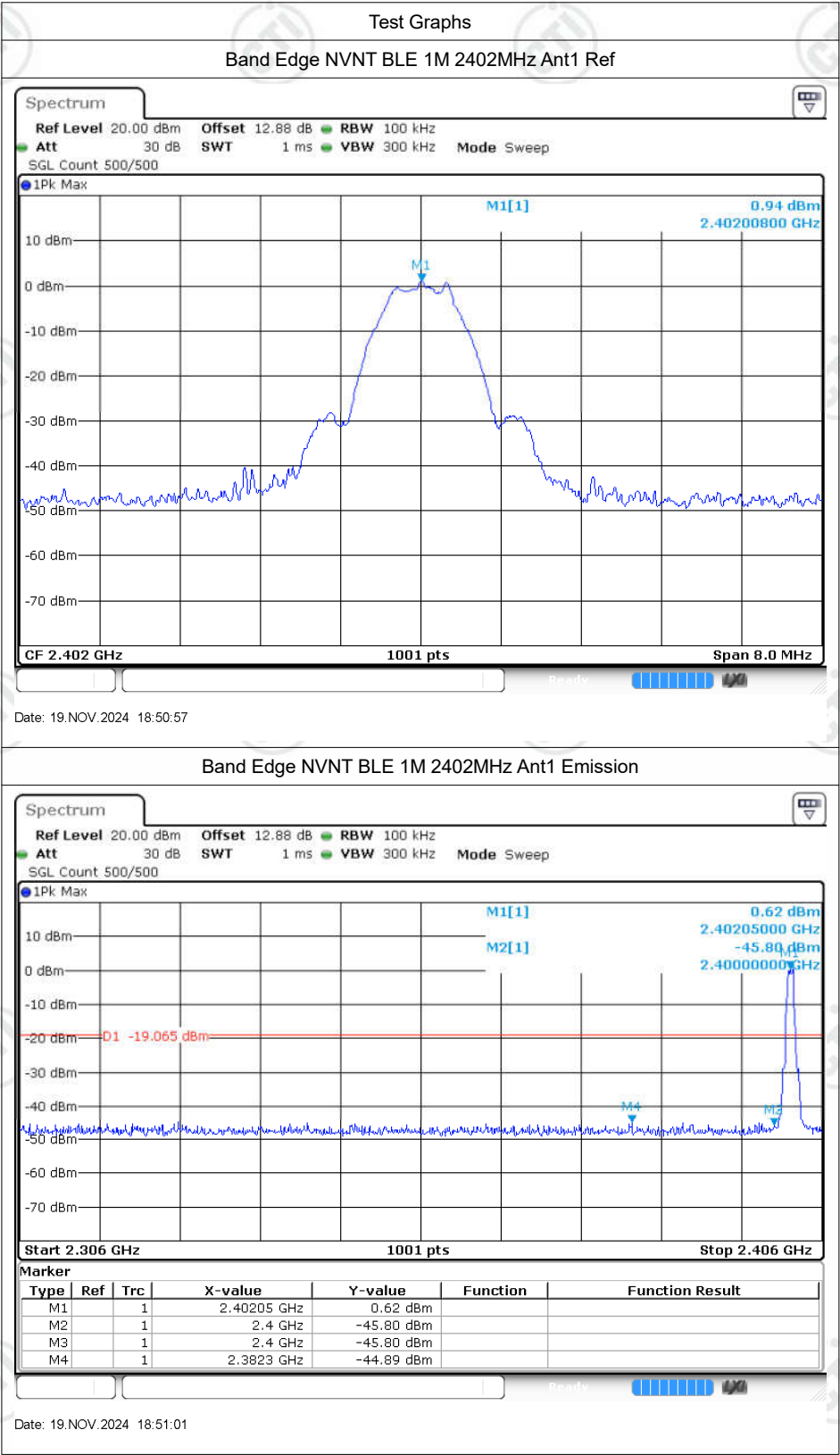
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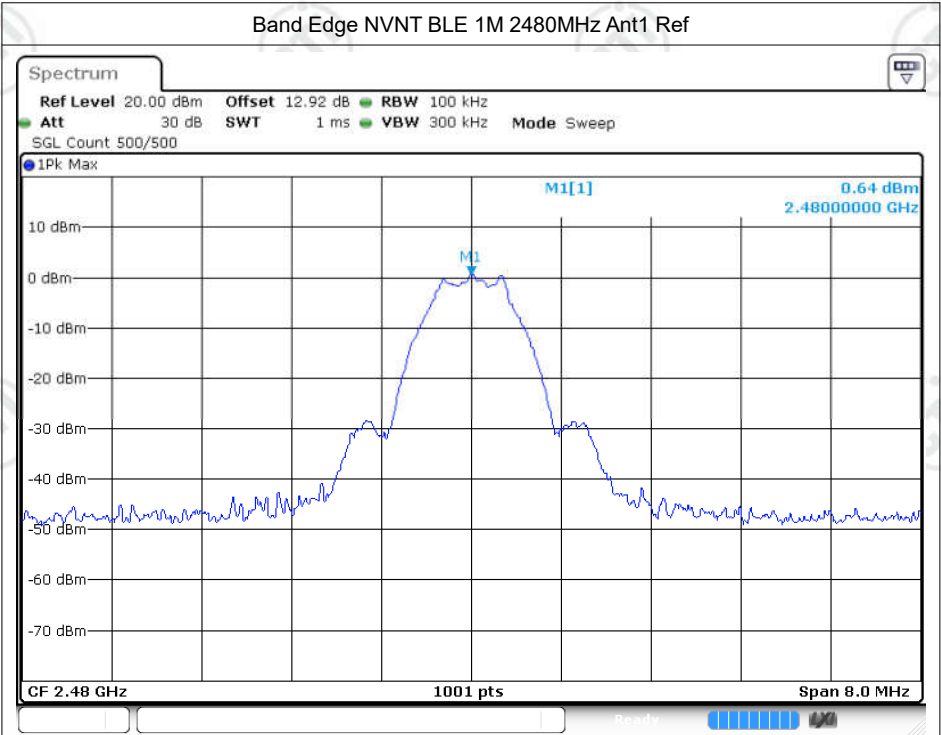


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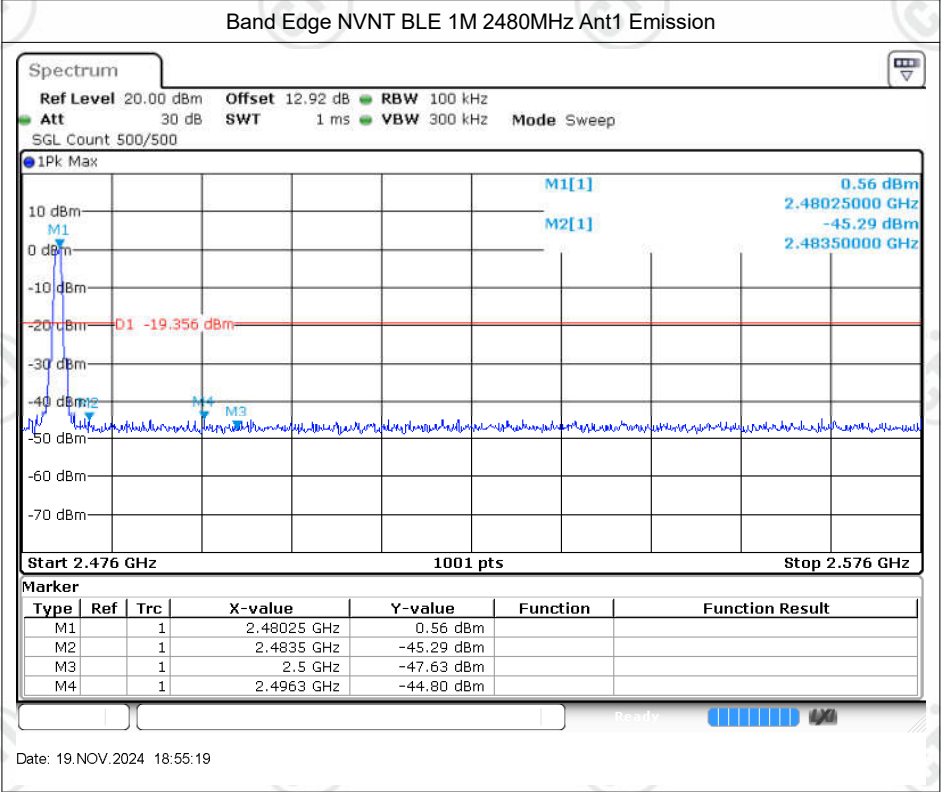
Band Edge

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -45.82          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -45.43          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -34.73          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -45.43          | -20         | Pass    |

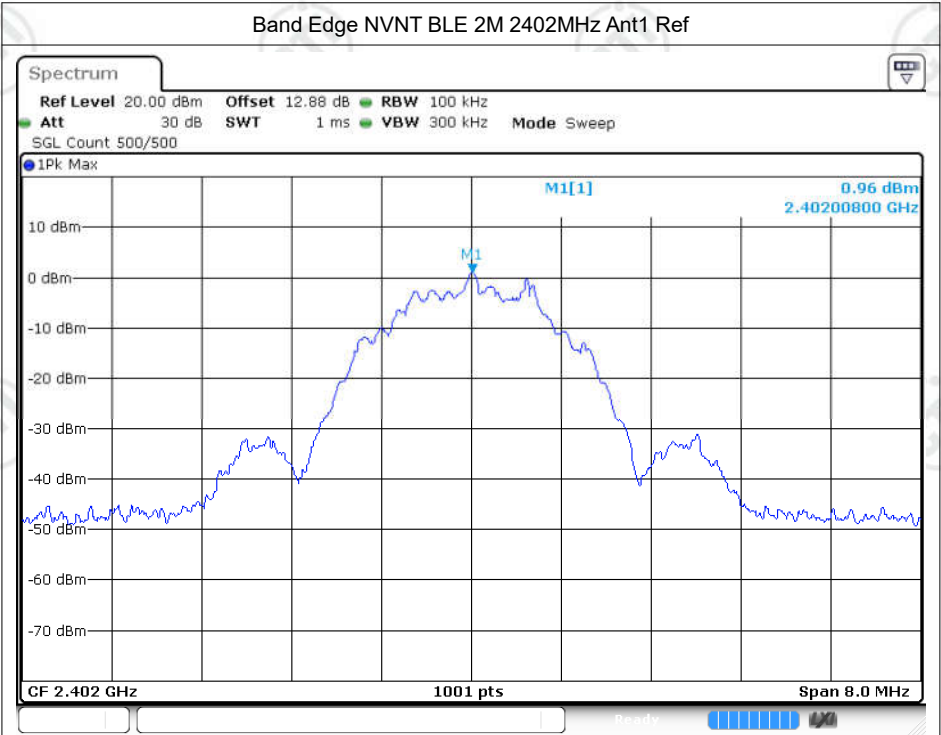




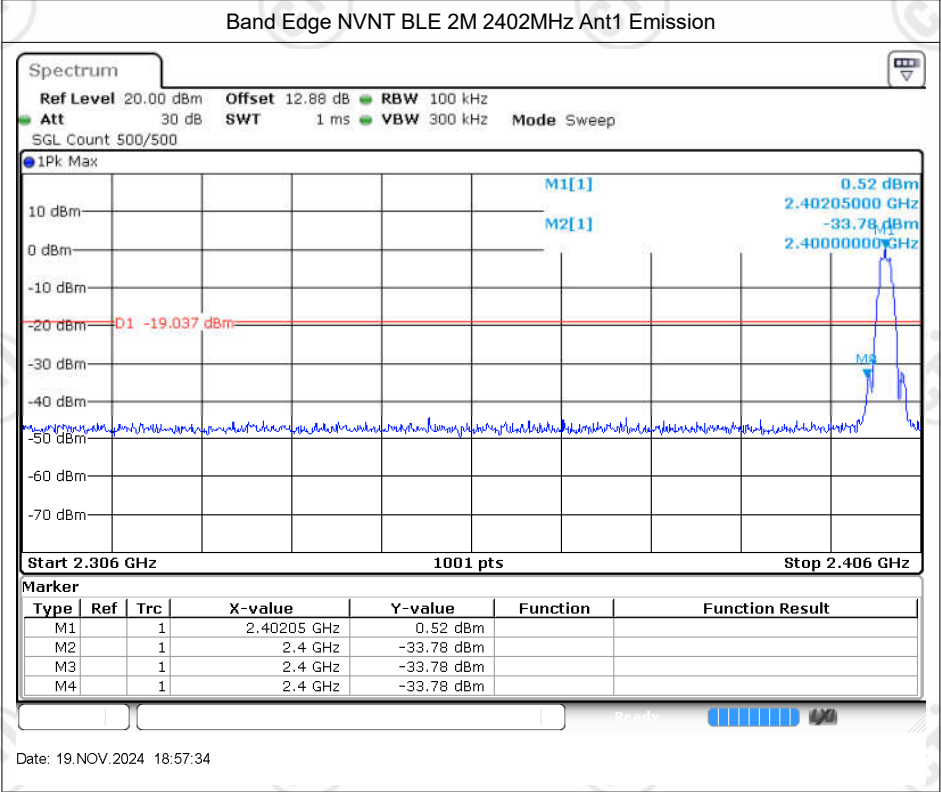
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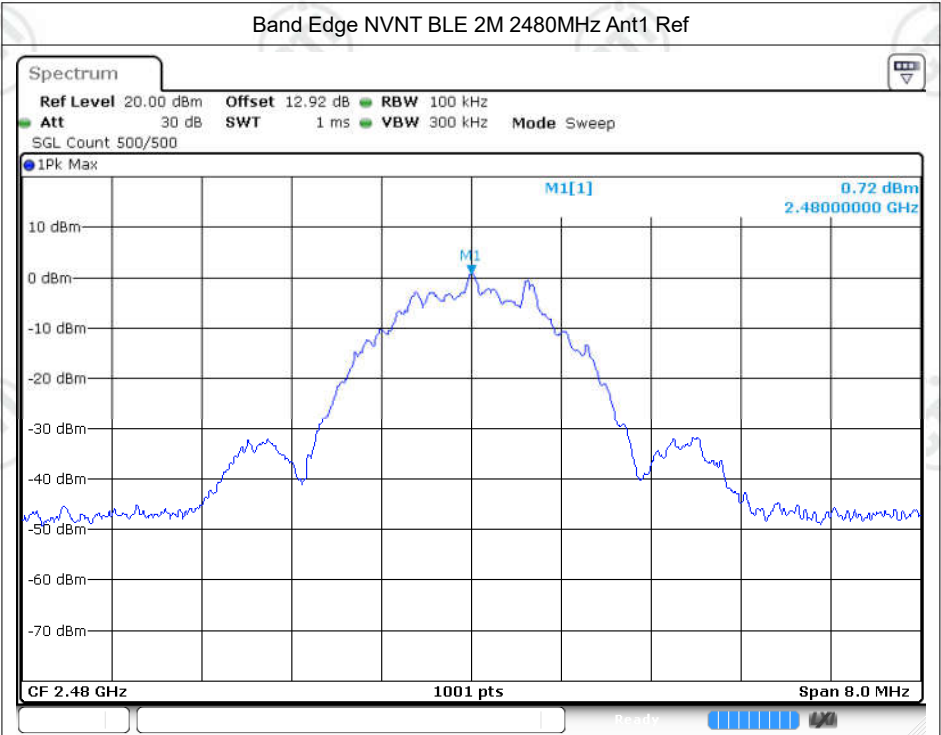
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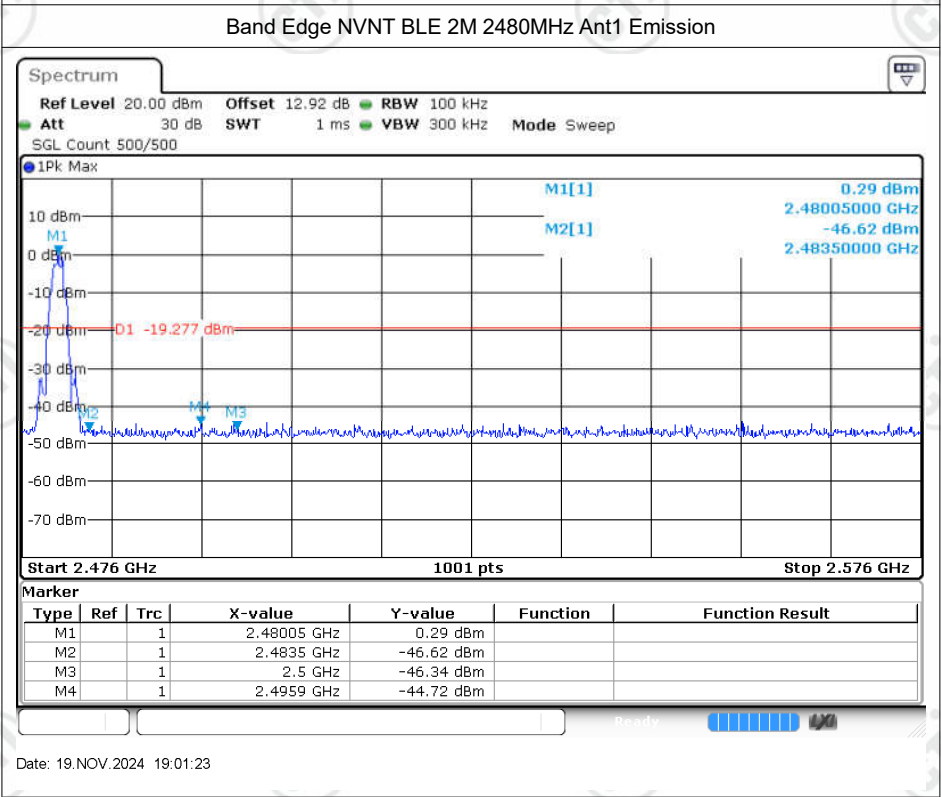
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Date: 19.NOV.2024 18:57:34



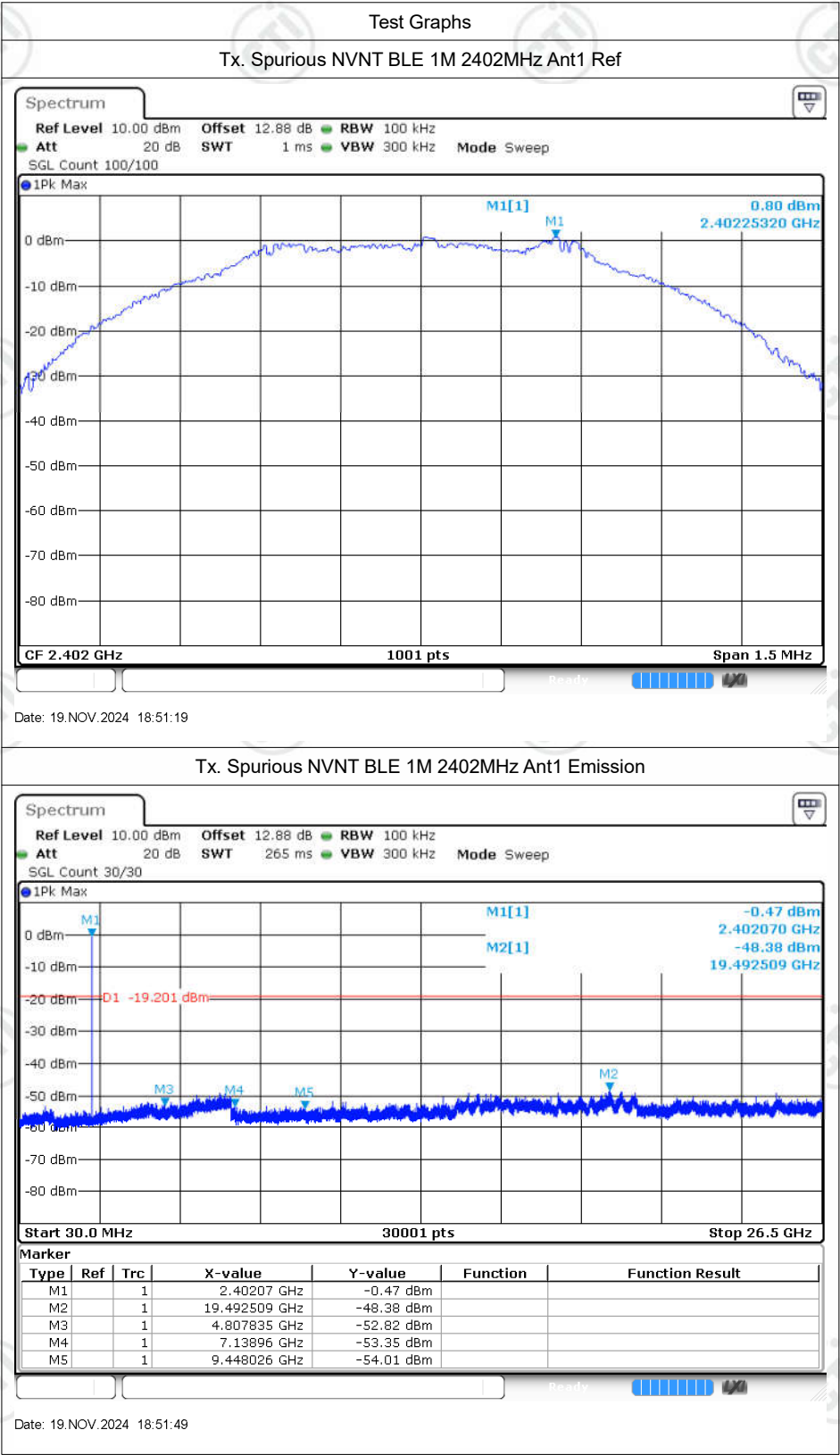
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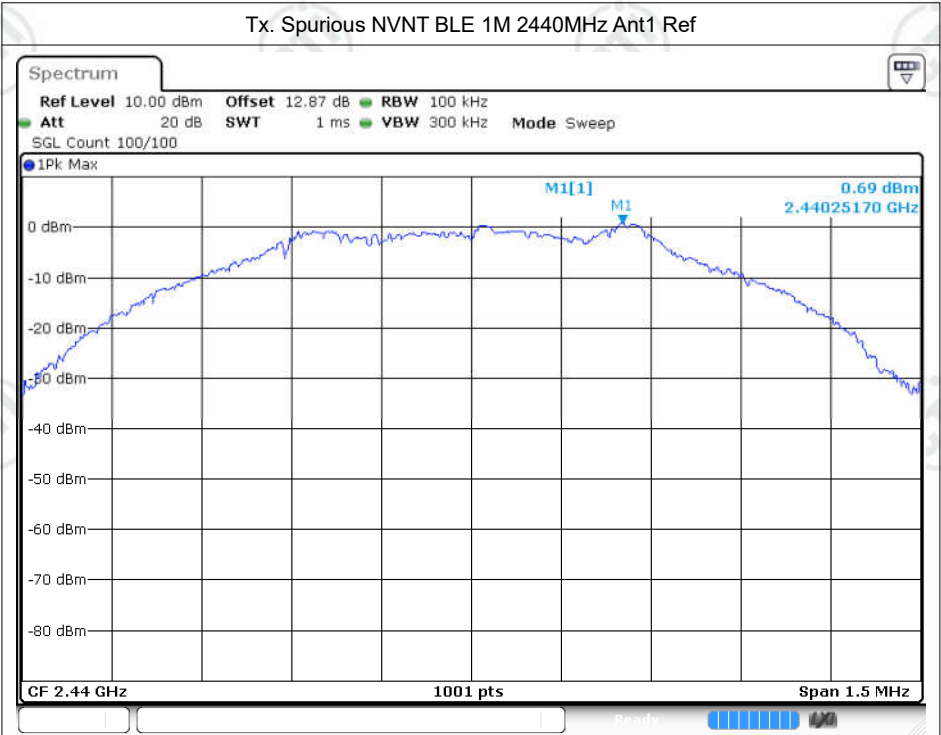


Date: 19.NOV.2024 19:01:23

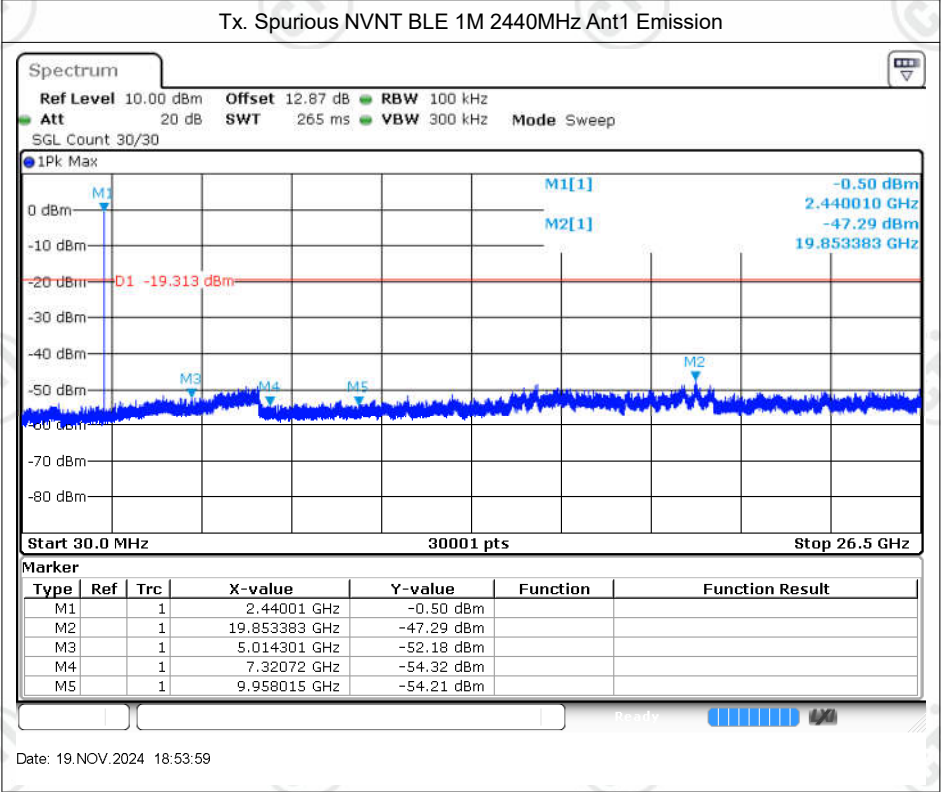
Conducted RF Spurious Emission

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -49.17          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -47.97          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -44.69          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -48.82          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -49.08          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -47.99          | -20         | Pass    |

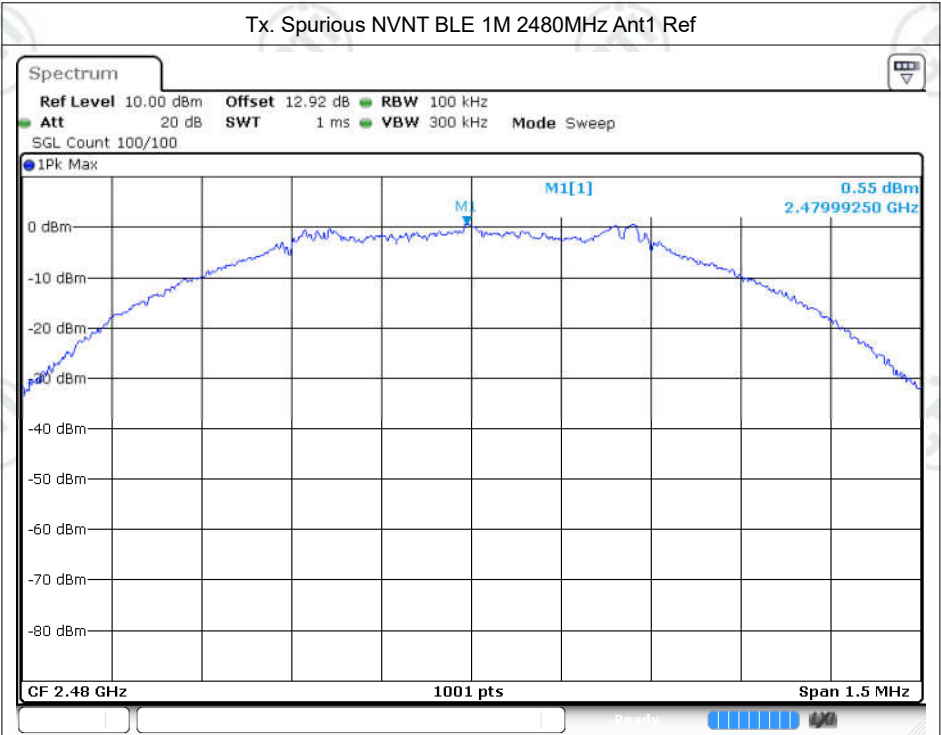




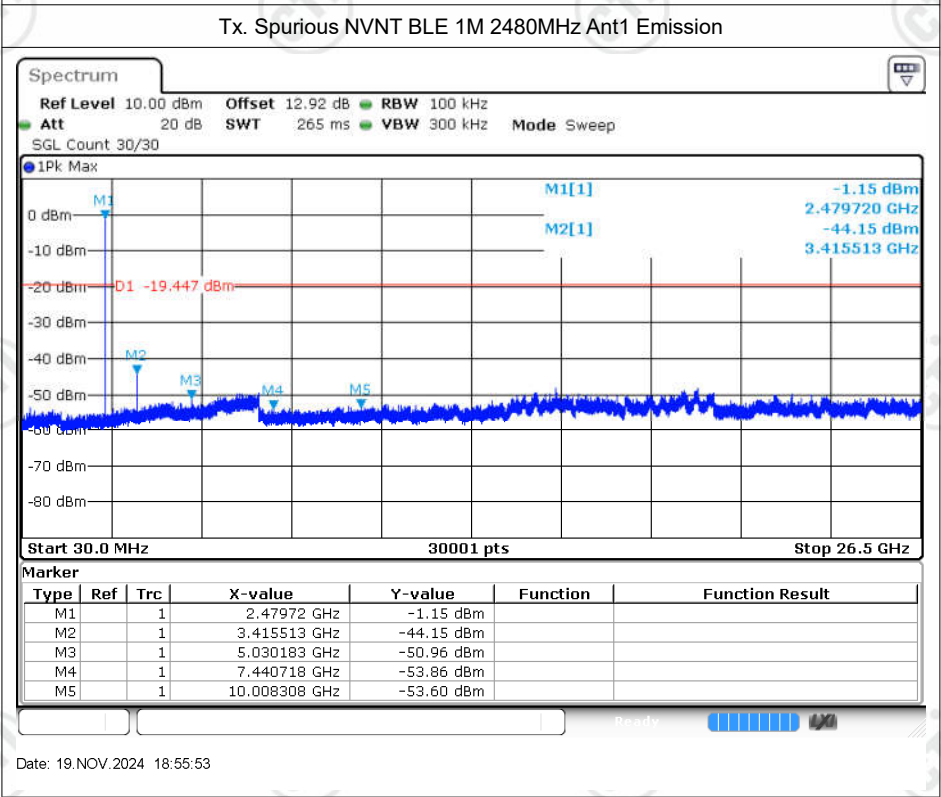
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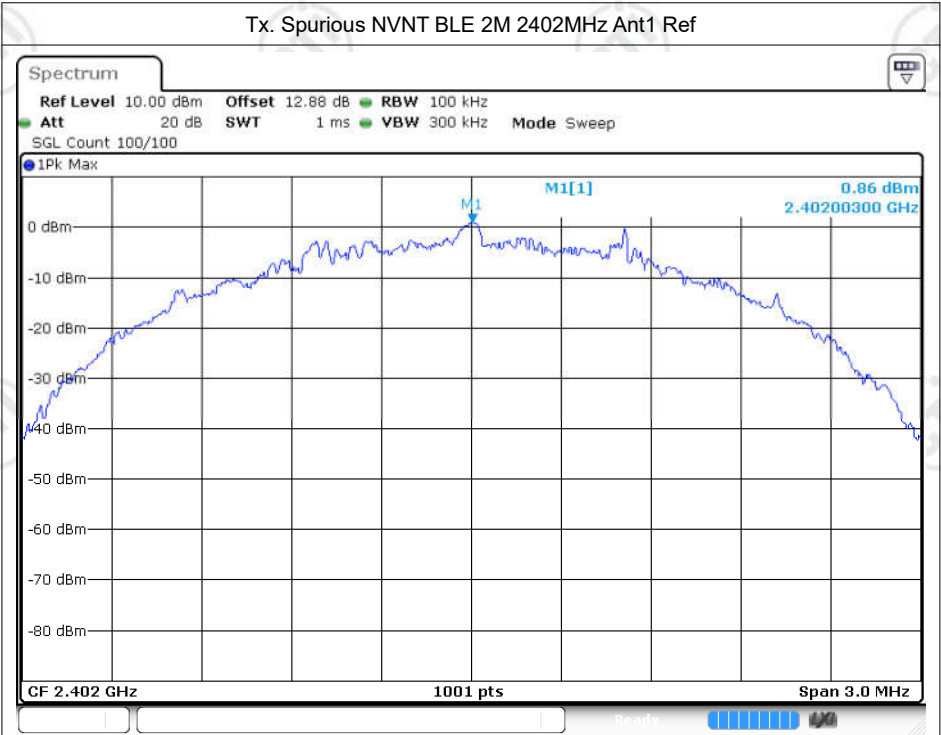


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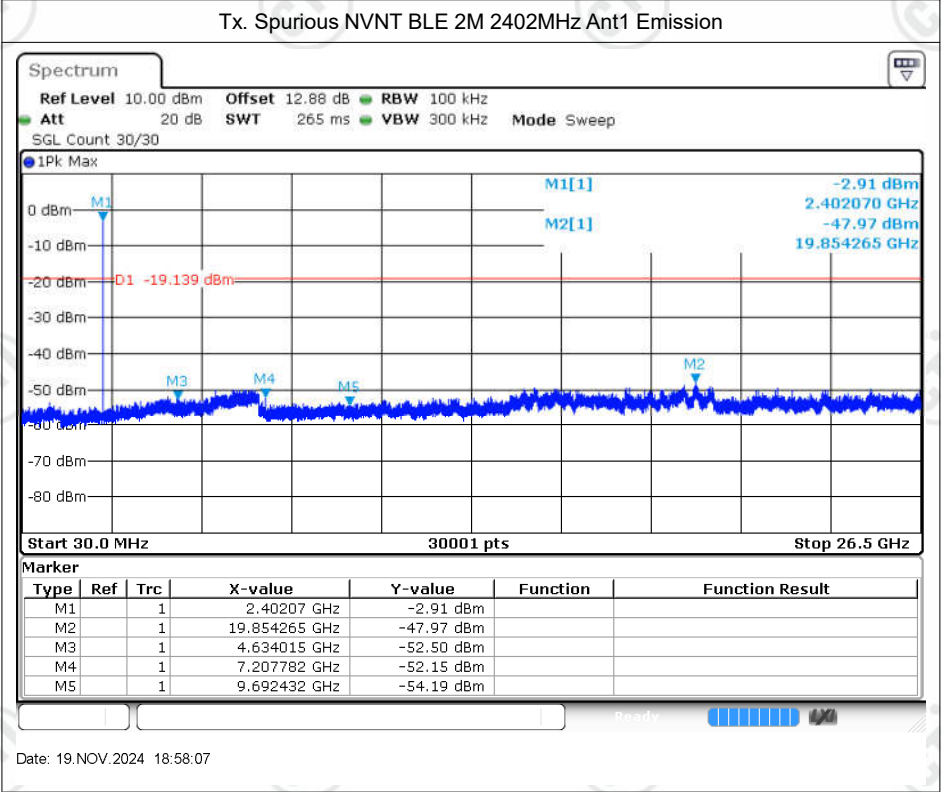


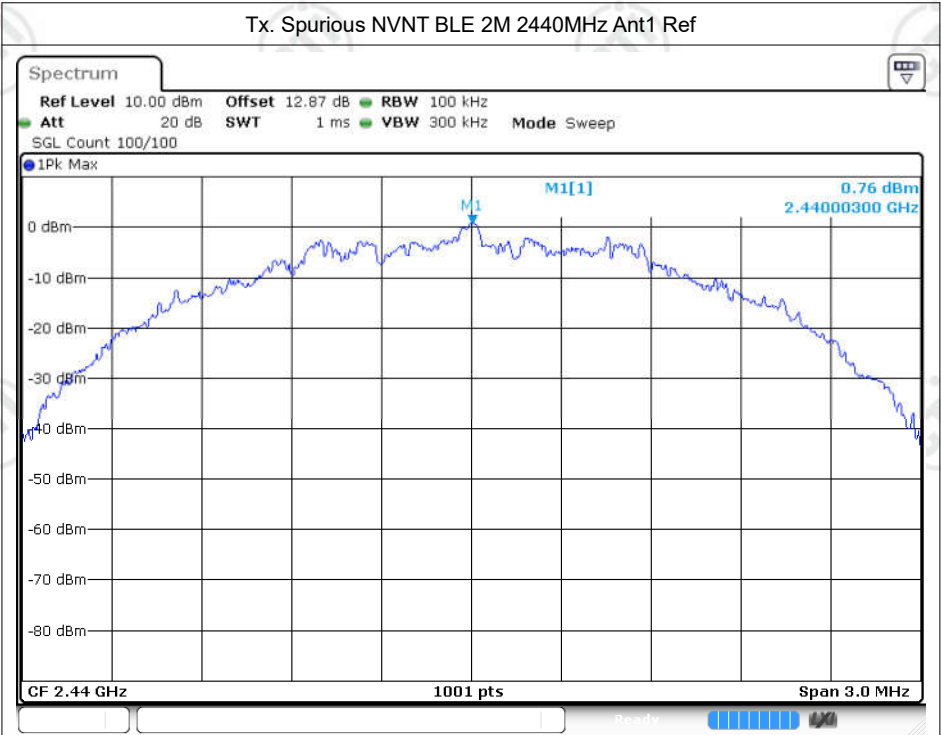
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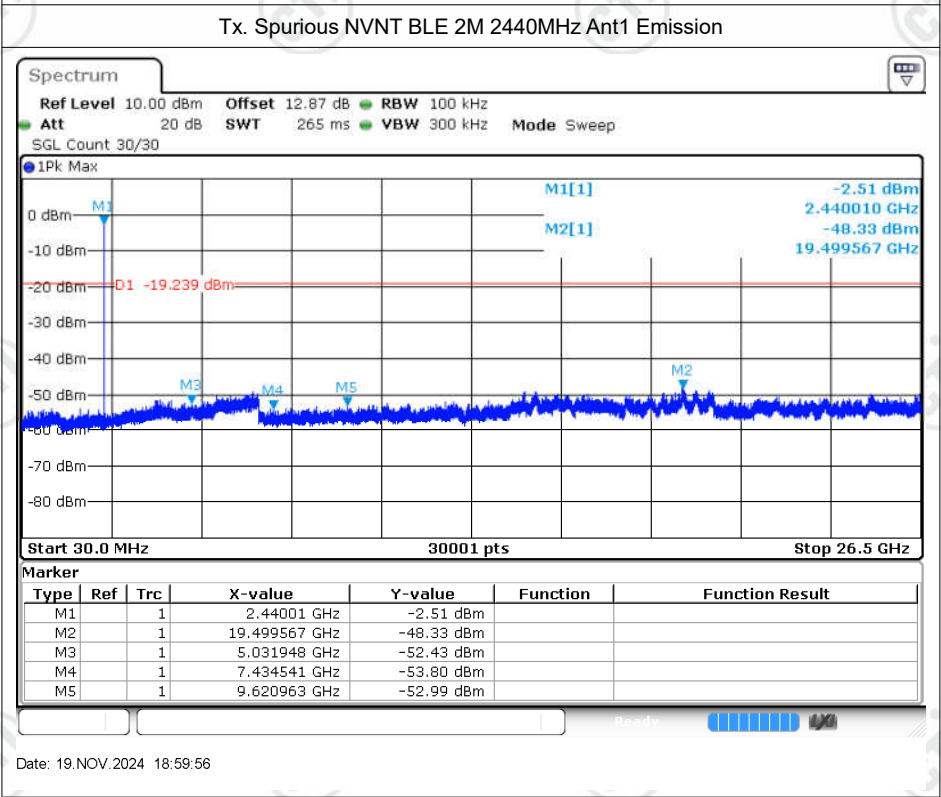


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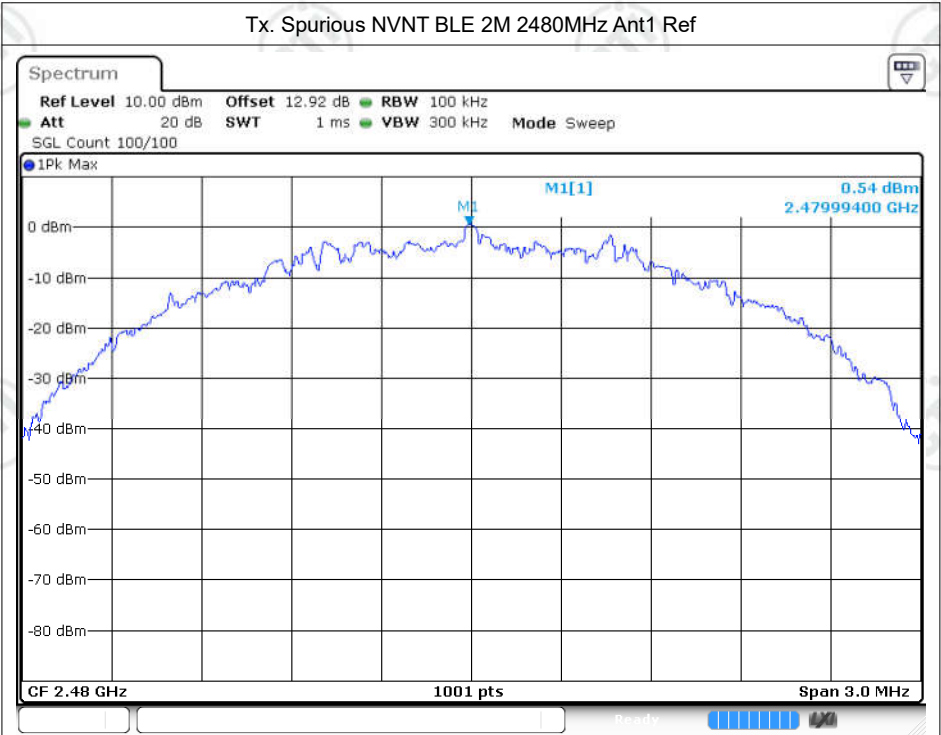




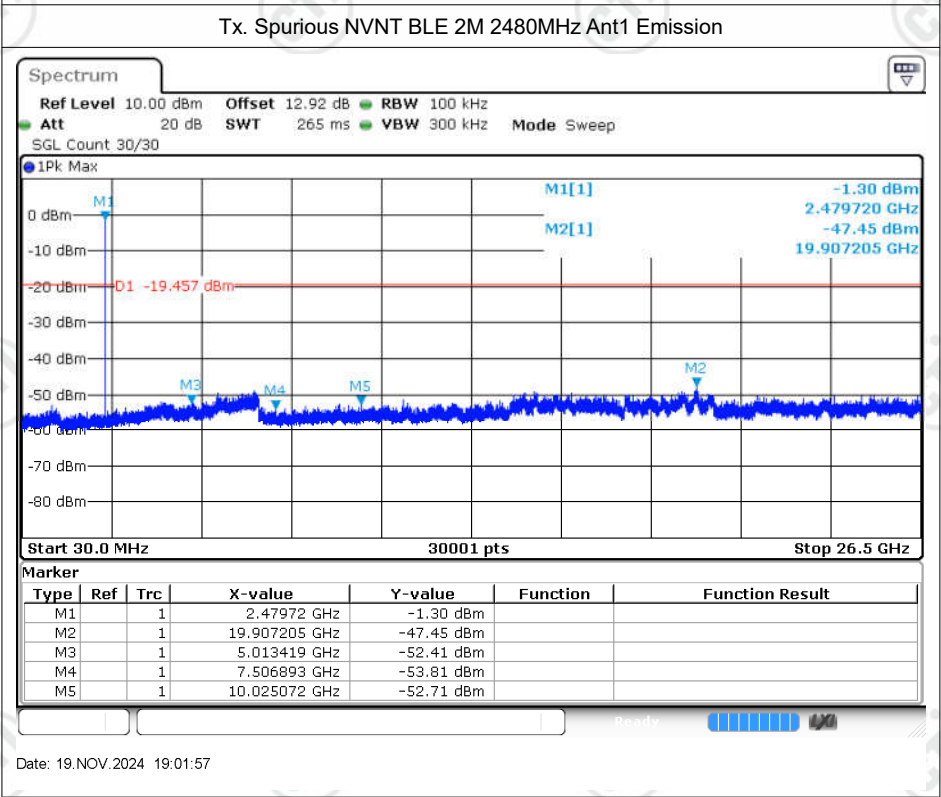
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Date: 19.NOV.2024 19:01:28



Date: 19.NOV.2024 19:01:57

\*\*\*END OF REPORT\*\*\*