

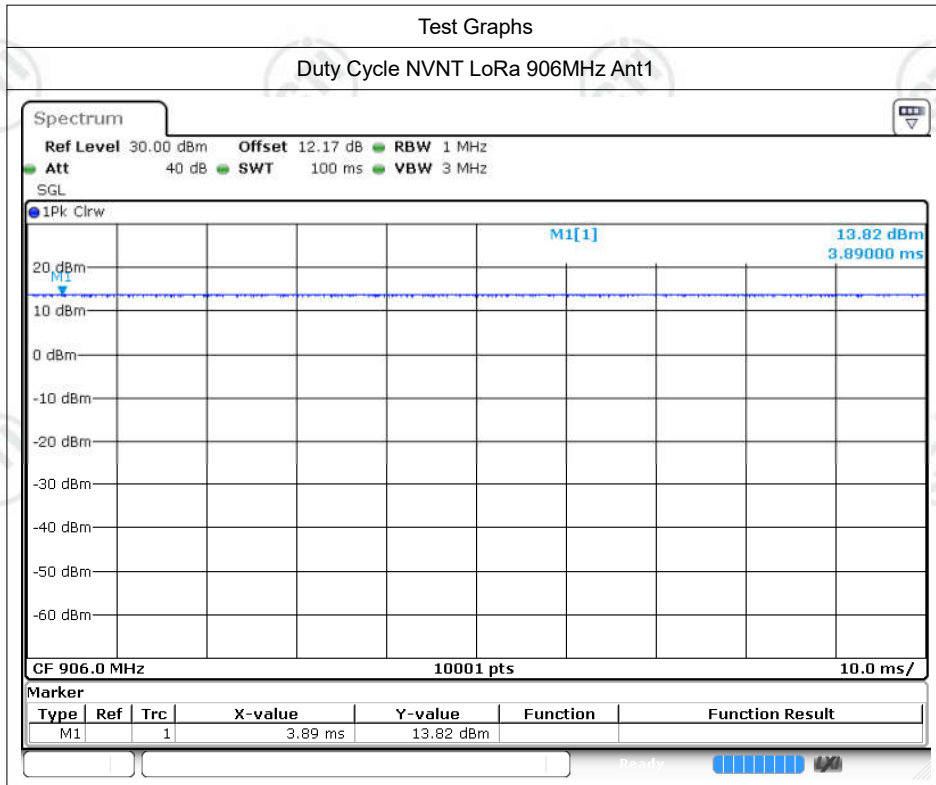
## Appendix: LoRa DTS

## Contents

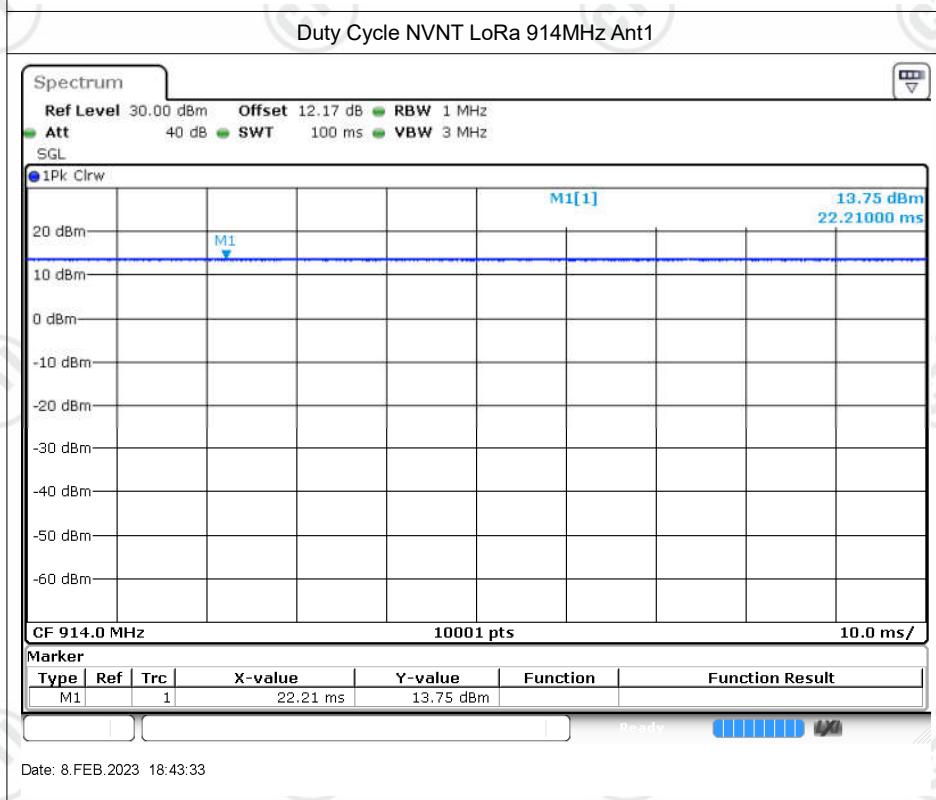
|  |    |
|--|----|
| Contents .....                               | 2  |
| Duty Cycle .....                             | 3  |
| Maximum Average Conducted Output Power ..... | 6  |
| Maximum Peak Conducted Output Power .....    | 9  |
| -6dB Bandwidth .....                         | 12 |
| Occupied Channel Bandwidth .....             | 15 |
| Maximum Power Spectral Density Level .....   | 18 |
| Band Edge .....                              | 21 |
| Conducted RF Spurious Emission .....         | 24 |

## Duty Cycle

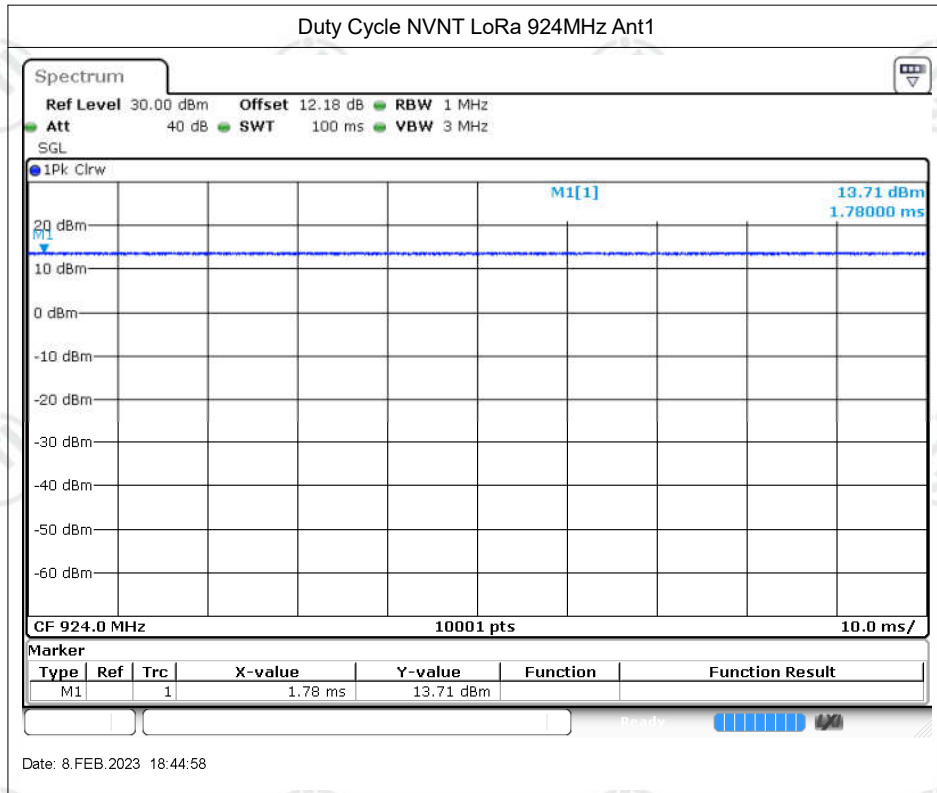
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | LoRa | 906             | Ant1    | 100            | 0                      | 0         |
| NVNT      | LoRa | 914             | Ant1    | 100            | 0                      | 0         |
| NVNT      | LoRa | 924             | Ant1    | 100            | 0                      | 0         |



Date: 8.FEB.2023 18:41:30

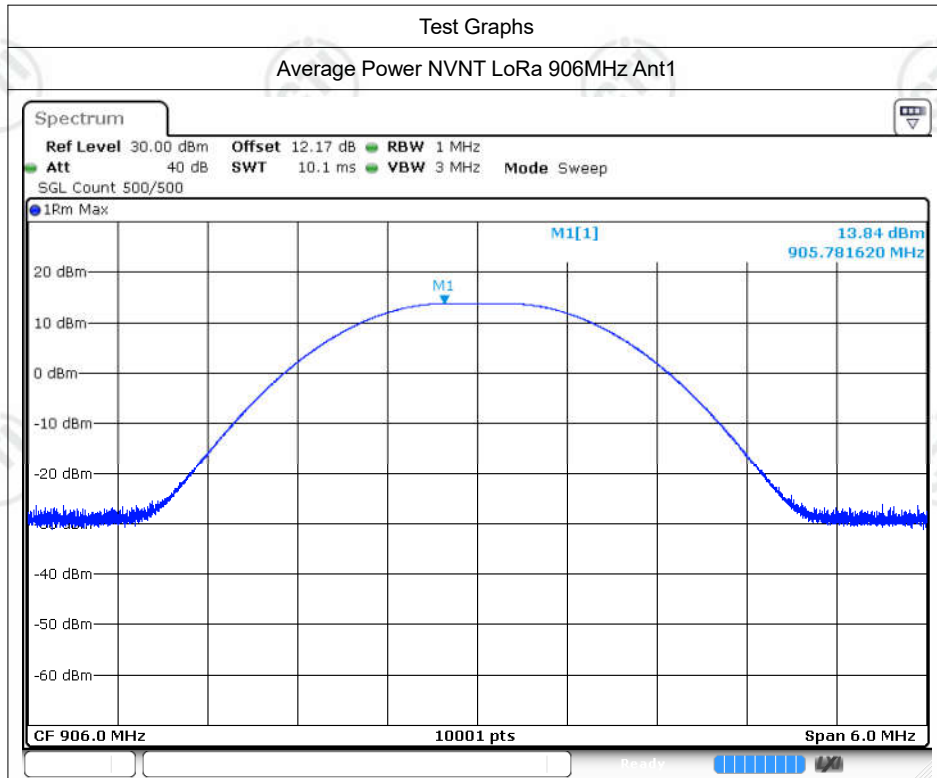


Date: 8.FEB.2023 18:43:33

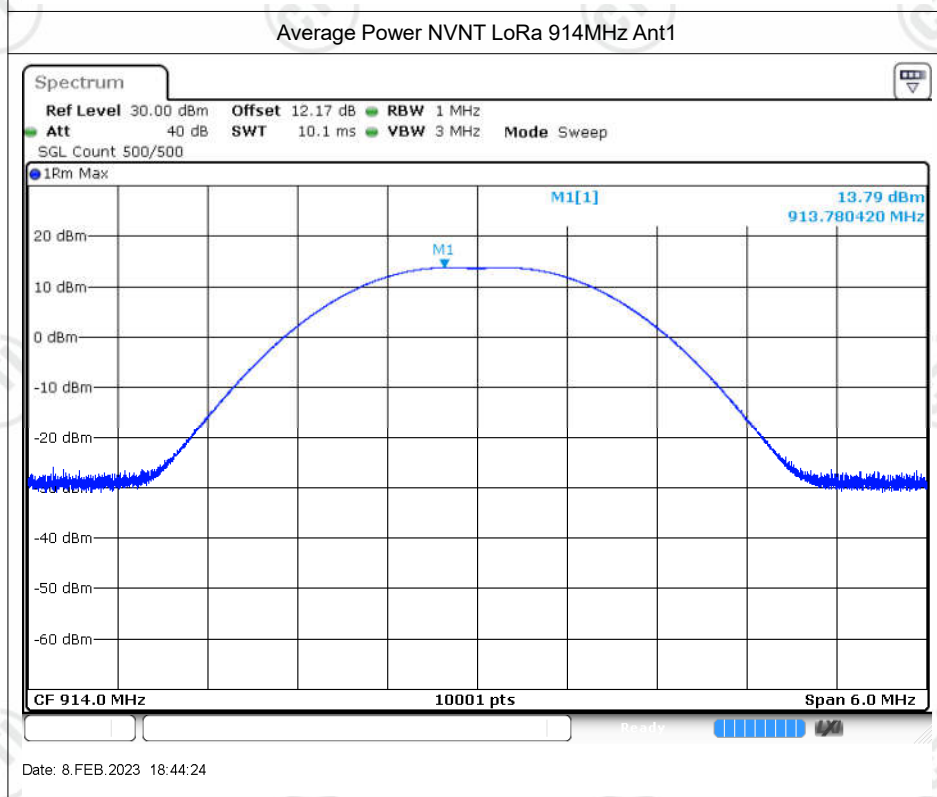


**Maximum Average Conducted Output Power**

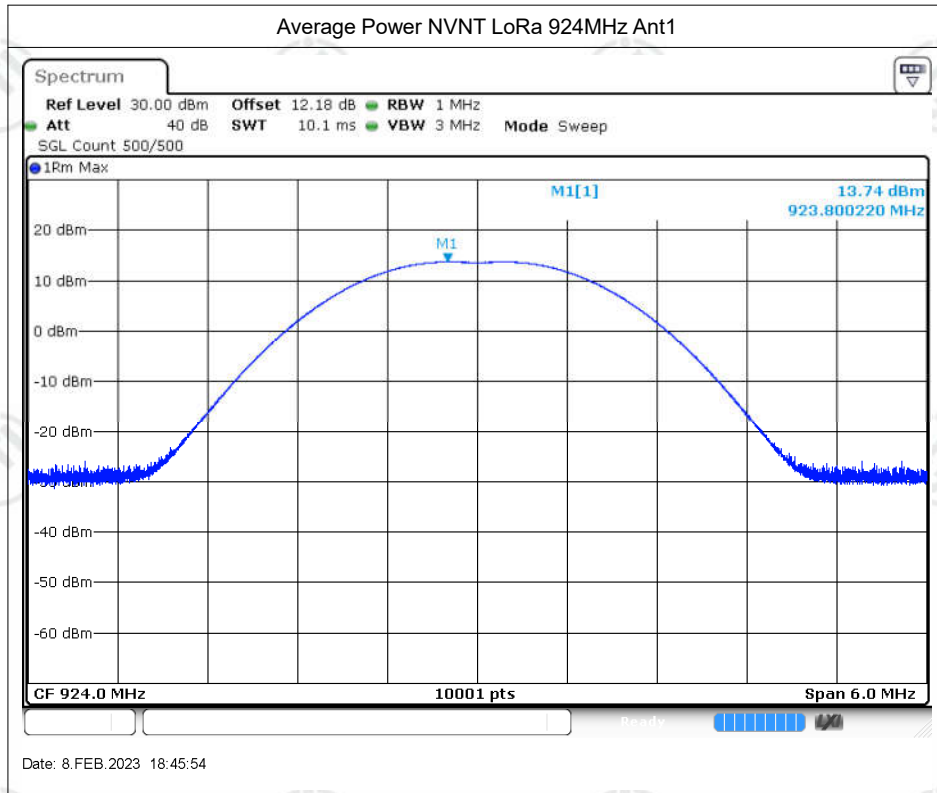
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | LoRa | 906             | Ant1    | 13.84                 | 30          | Pass    |
| NVNT      | LoRa | 914             | Ant1    | 13.79                 | 30          | Pass    |
| NVNT      | LoRa | 924             | Ant1    | 13.74                 | 30          | Pass    |



Date: 8.FEB.2023 18:42:30



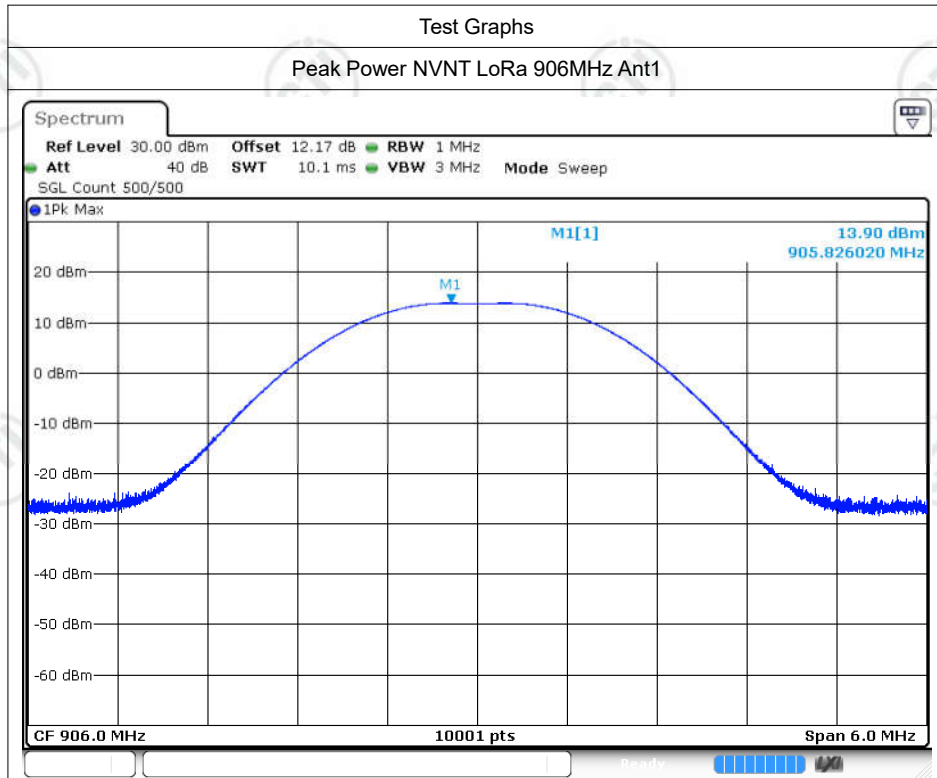
Date: 8.FEB.2023 18:44:24



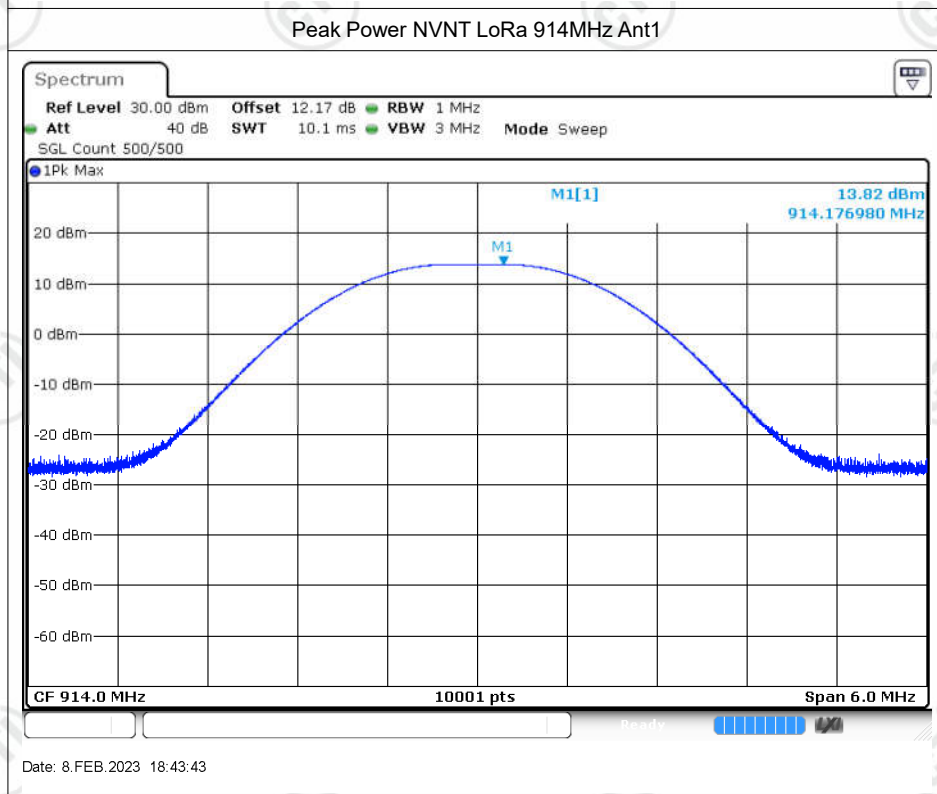


**Maximum Peak Conducted Output Power**

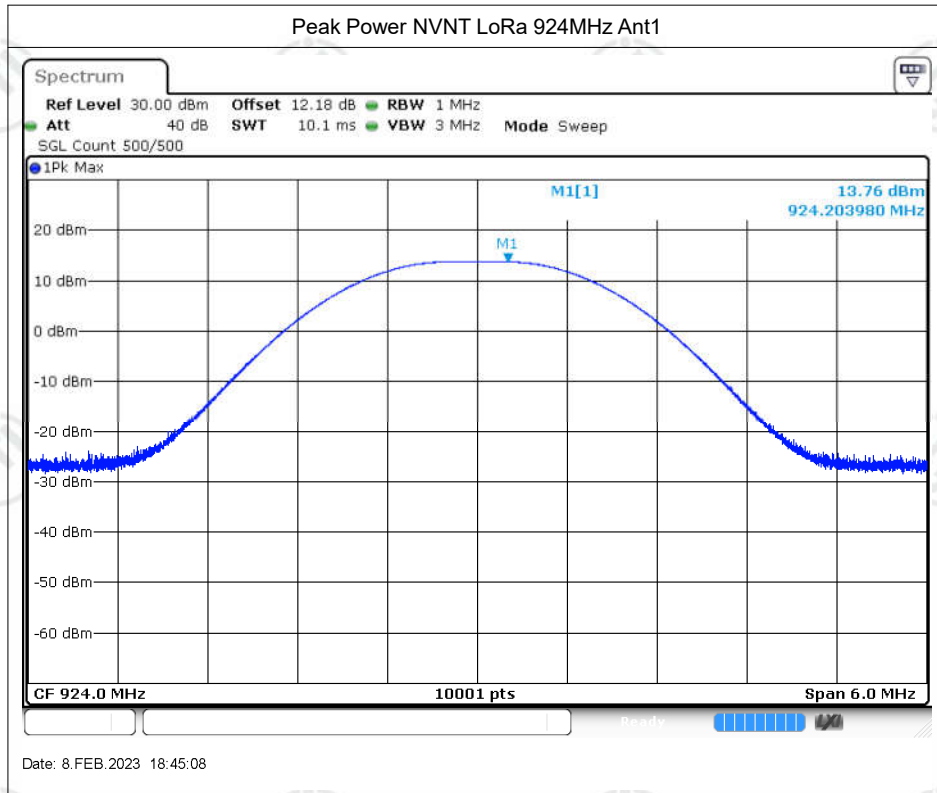
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | LoRa | 906             | Ant1    | 13.90                 | 30          | Pass    |
| NVNT      | LoRa | 914             | Ant1    | 13.82                 | 30          | Pass    |
| NVNT      | LoRa | 924             | Ant1    | 13.76                 | 30          | Pass    |



Date: 8.FEB.2023 18:41:40

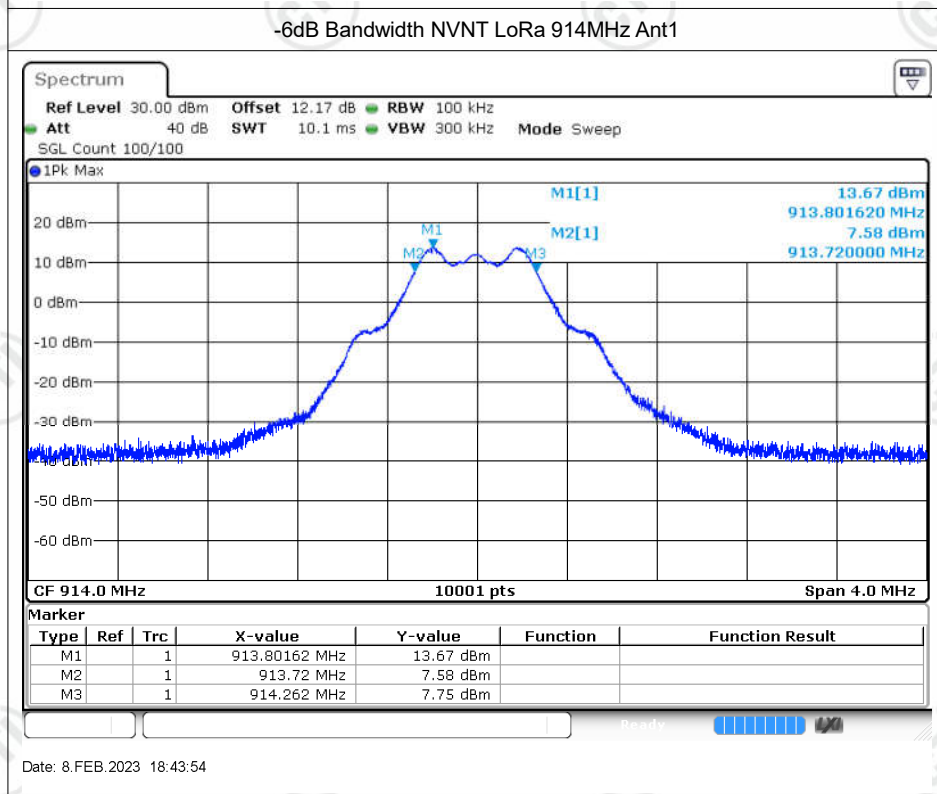
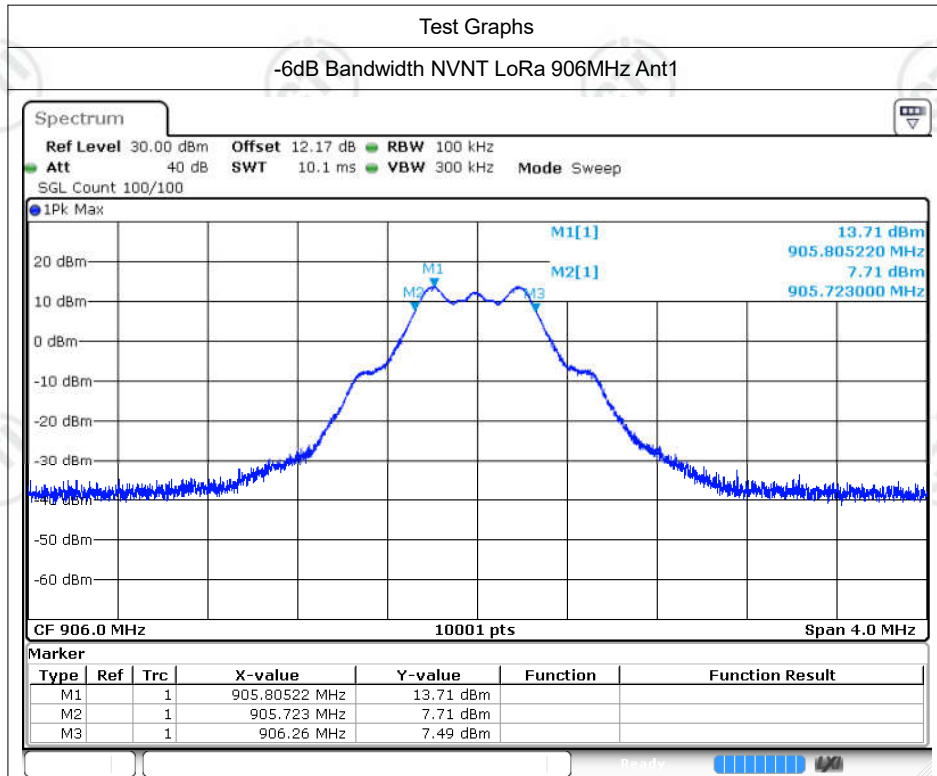


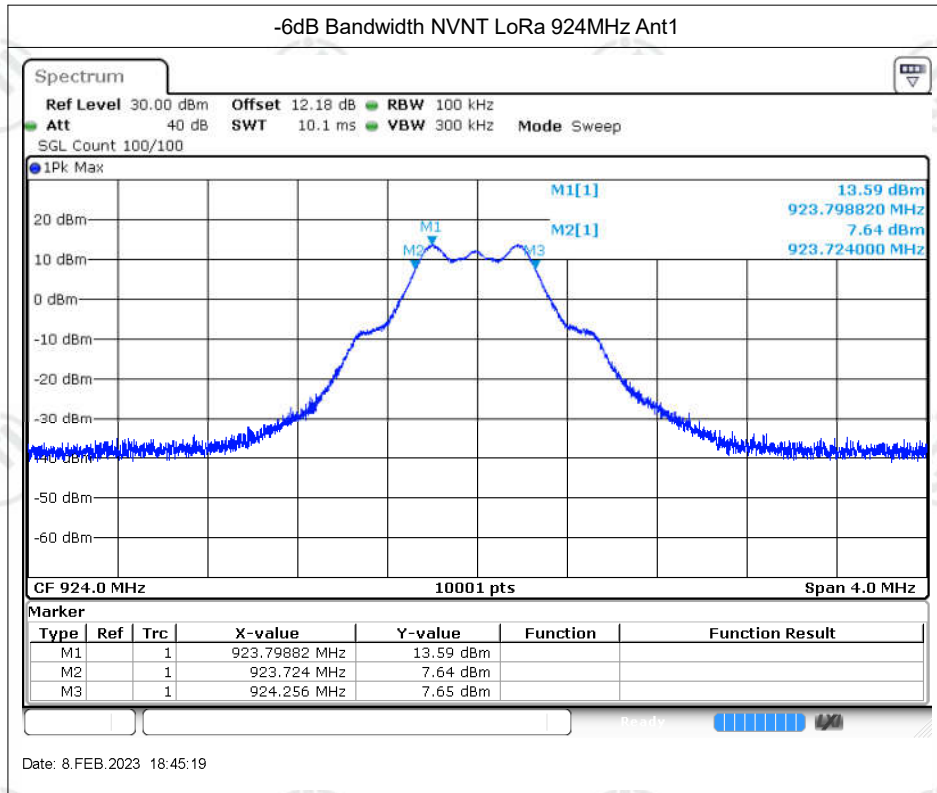
Date: 8.FEB.2023 18:43:43



**-6dB Bandwidth**

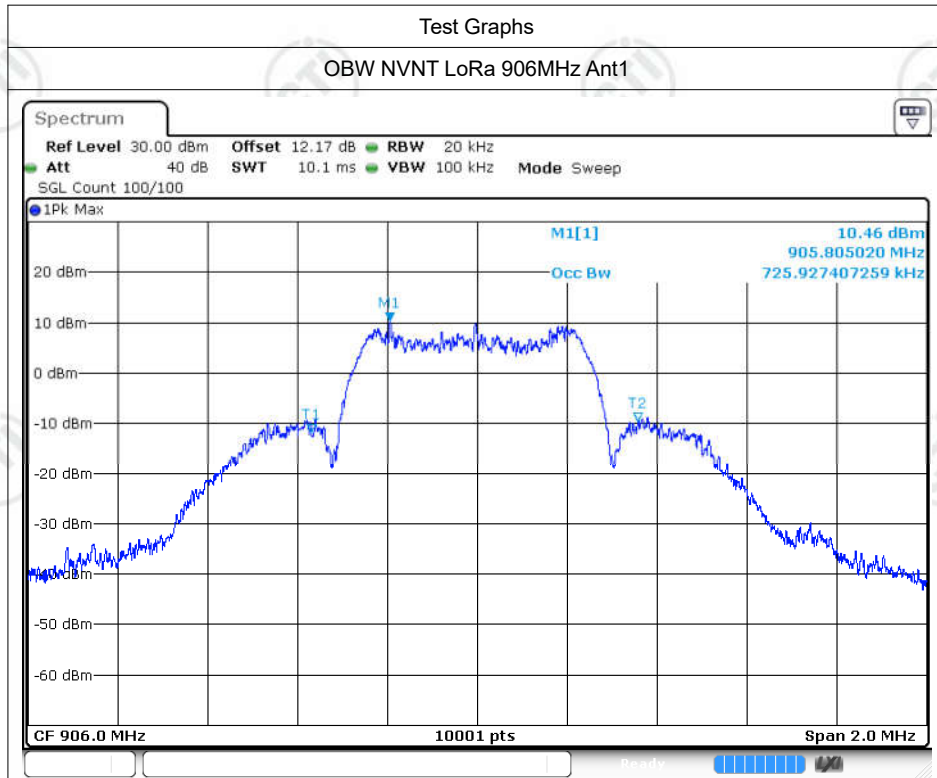
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | LoRa | 906             | Ant1    | 0.537                 | 0.5                         | Pass    |
| NVNT      | LoRa | 914             | Ant1    | 0.542                 | 0.5                         | Pass    |
| NVNT      | LoRa | 924             | Ant1    | 0.532                 | 0.5                         | Pass    |



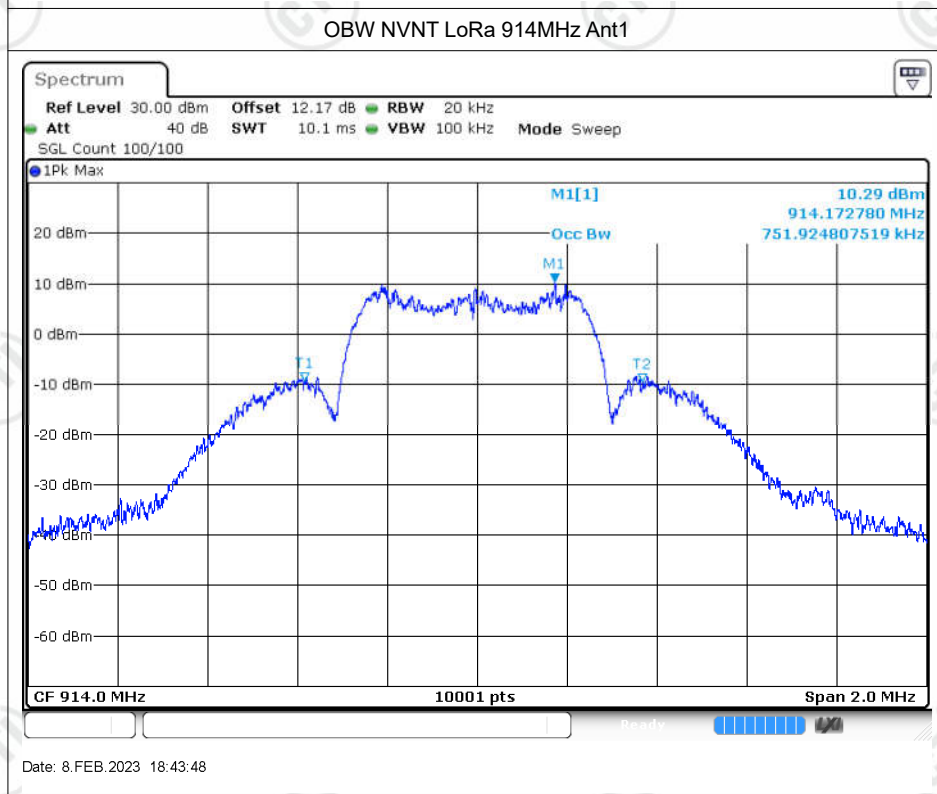


## Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | LoRa | 906             | Ant1    | 0.726         |
| NVNT      | LoRa | 914             | Ant1    | 0.752         |
| NVNT      | LoRa | 924             | Ant1    | 0.691         |

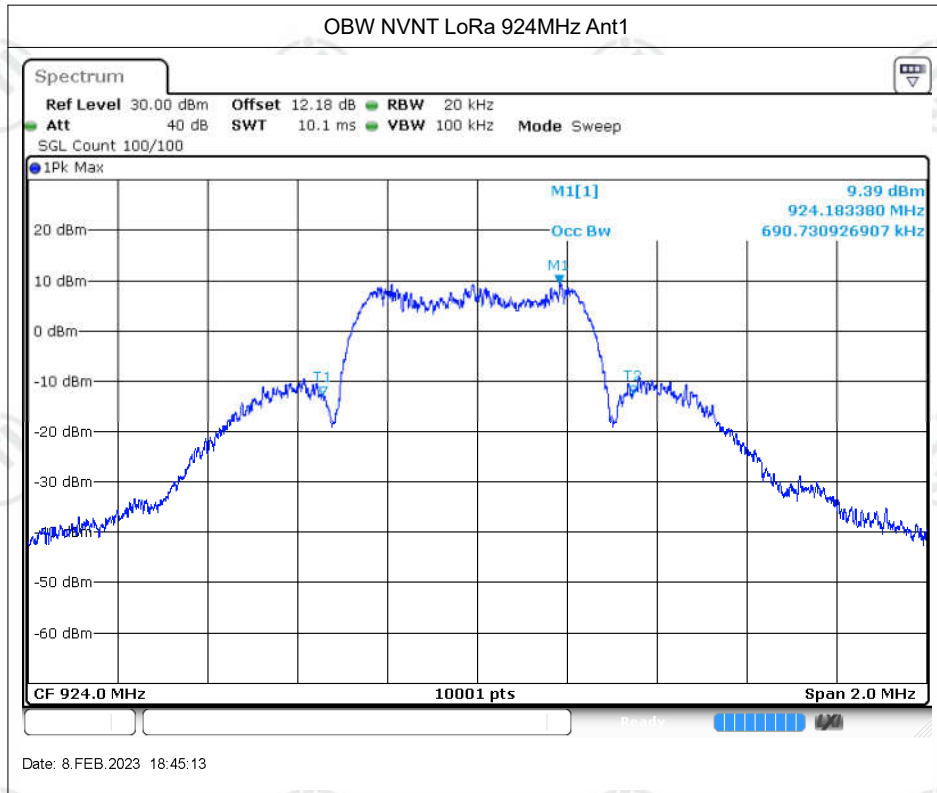


Date: 8.FEB.2023 18:41:45



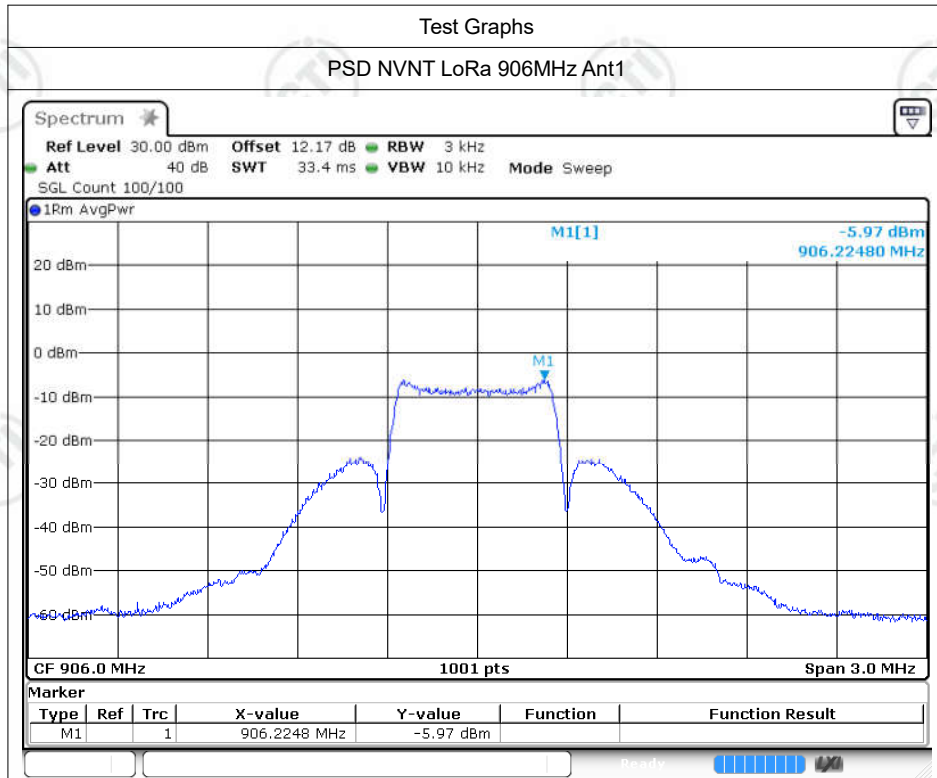
Date: 8.FEB.2023 18:43:48



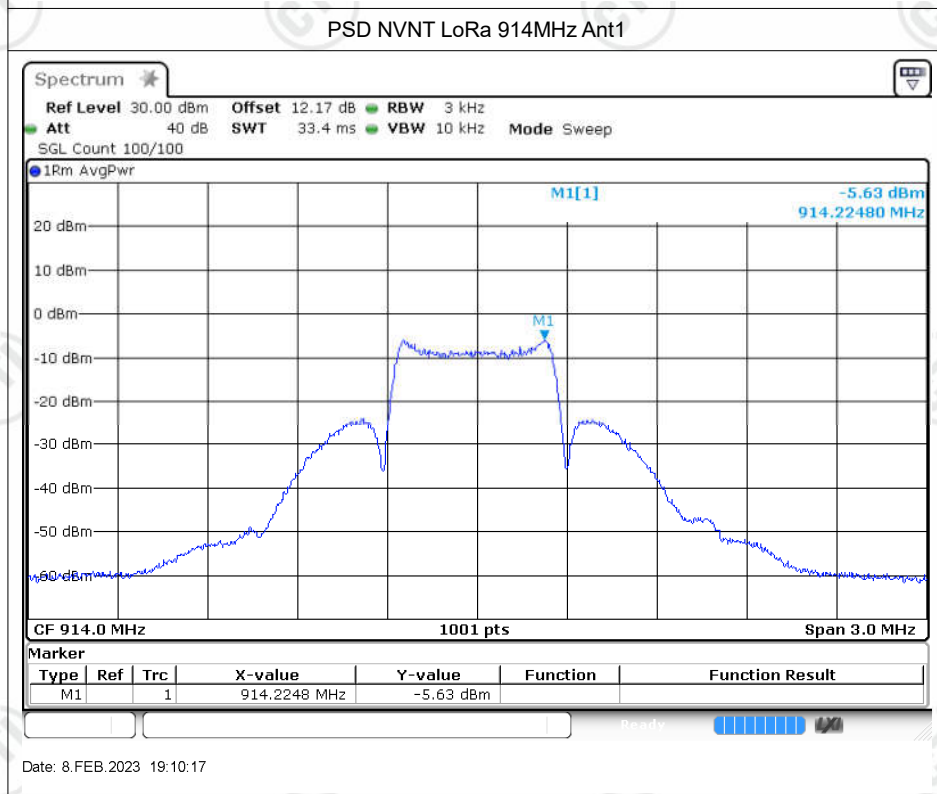


**Maximum Power Spectral Density Level**

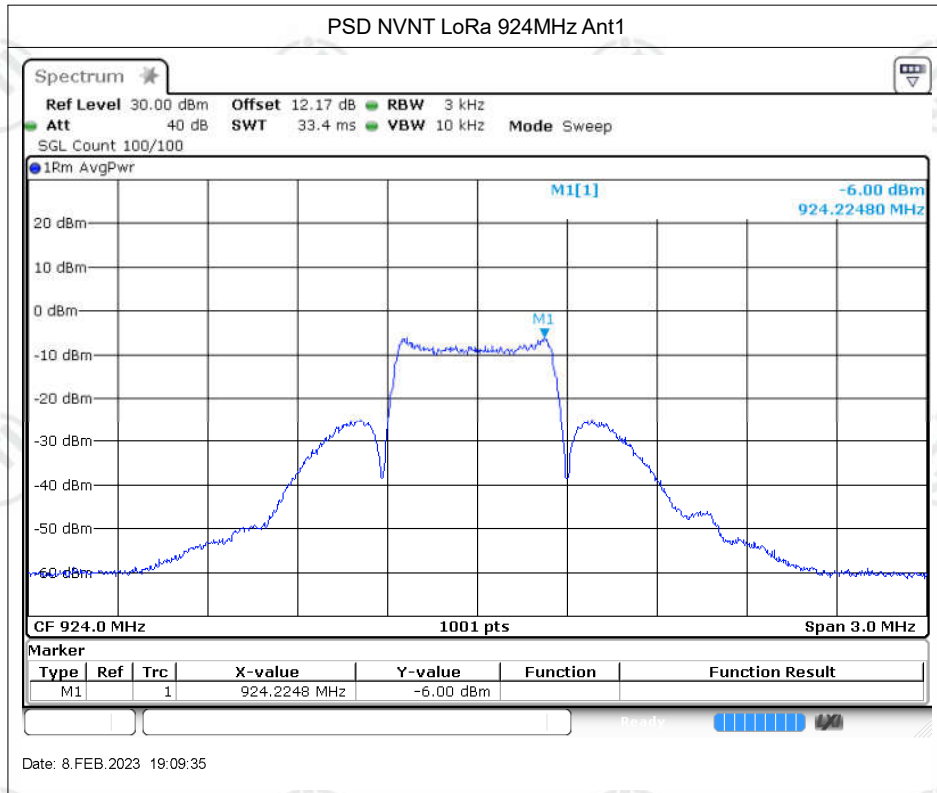
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | LoRa | 906             | Ant1    | -5.97                    | 0                | -5.97                | 8                | Pass    |
| NVNT      | LoRa | 914             | Ant1    | -5.63                    | 0                | -5.63                | 8                | Pass    |
| NVNT      | LoRa | 924             | Ant1    | -6.0                     | 0                | -6.0                 | 8                | Pass    |



Date: 8.FEB.2023 19:10:56

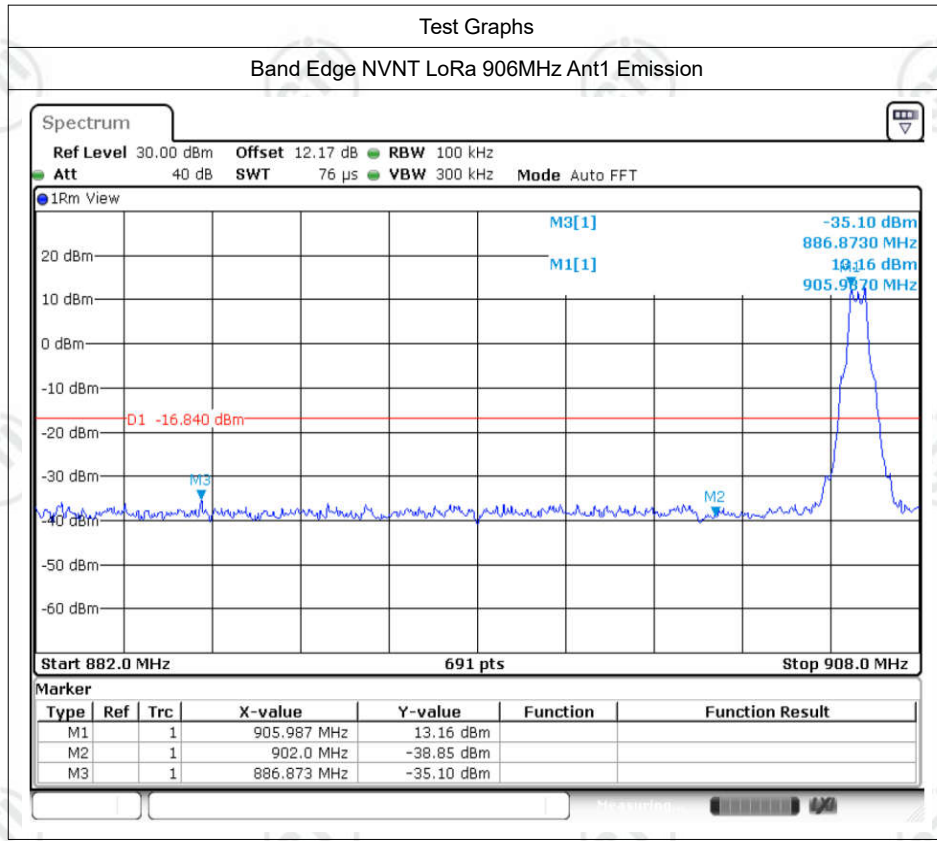


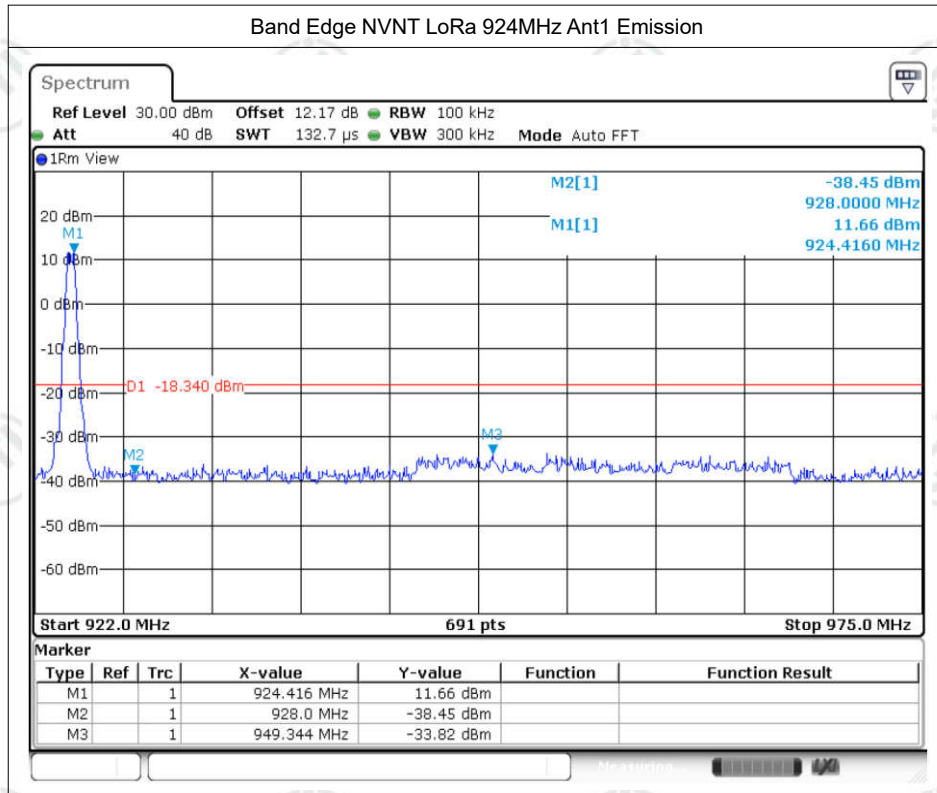
Date: 8.FEB.2023 19:10:17



## Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | LoRa | 906             | Ant1    | -38.85          | -16.84      | Pass    |
| NVNT      | LoRa | 924             | Ant1    | -38.45          | -18.34      | Pass    |

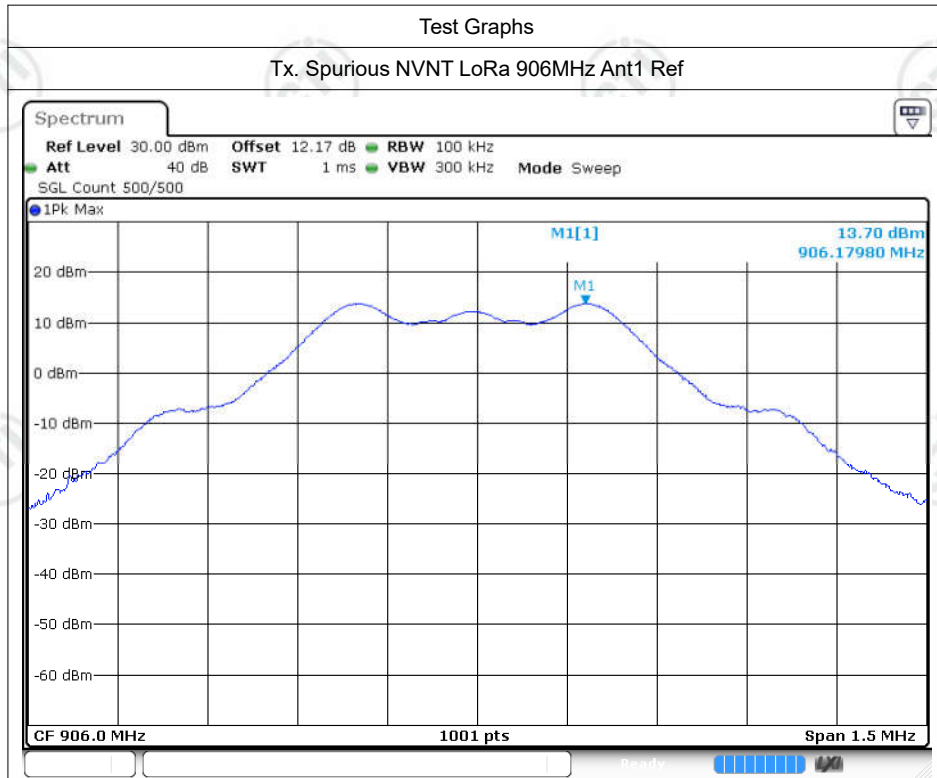




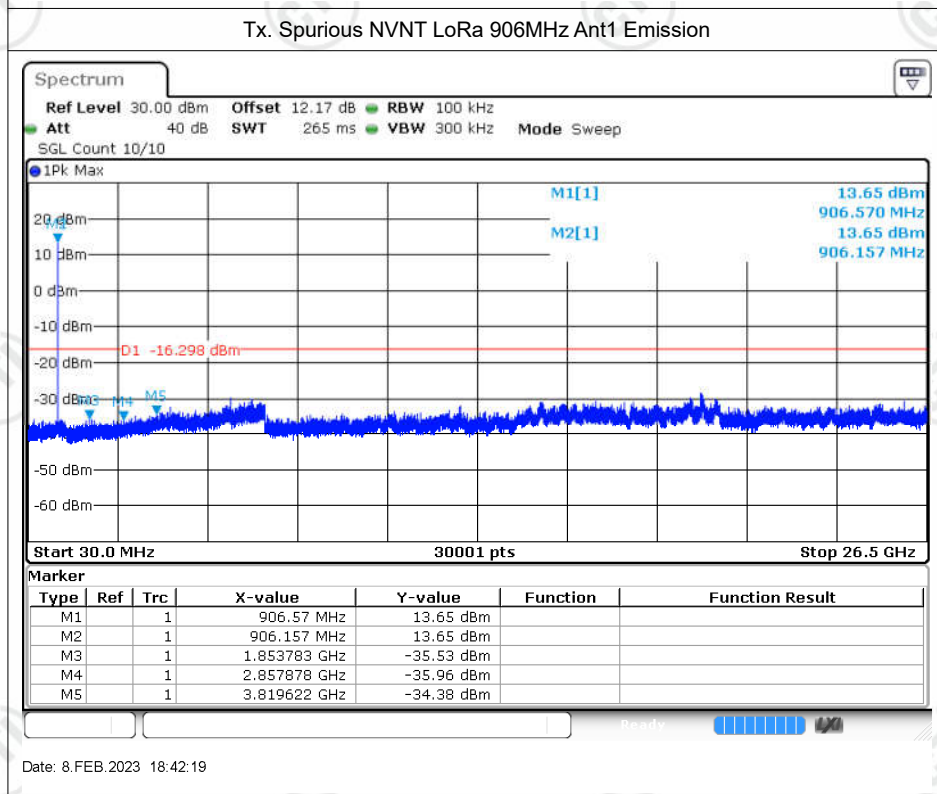
## Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-------------|---------|
| NVNT      | LoRa | 906             | Ant1    | -16.298     | Pass    |
| NVNT      | LoRa | 914             | Ant1    | -16.394     | Pass    |
| NVNT      | LoRa | 924             | Ant1    | -16.346     | Pass    |

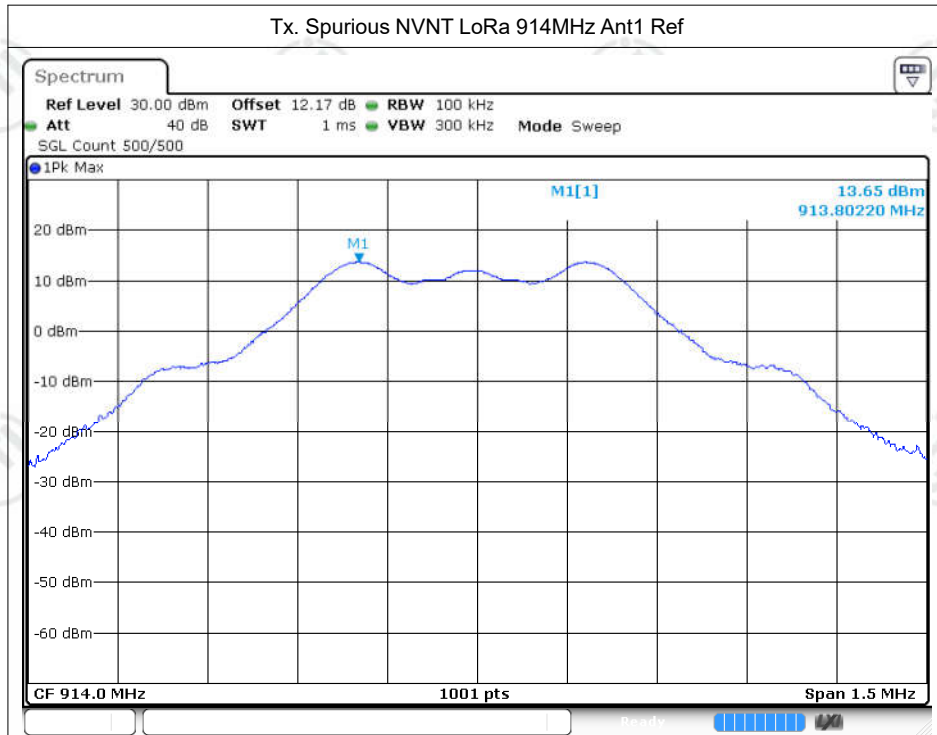




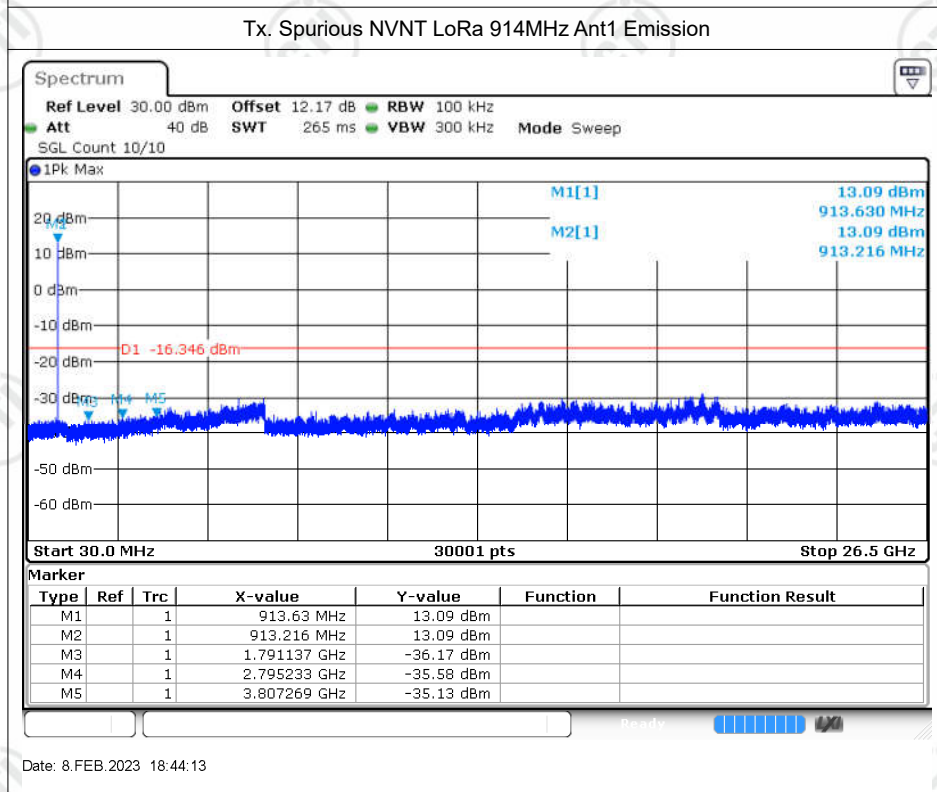
Date: 8.FEB.2023 18:42:08



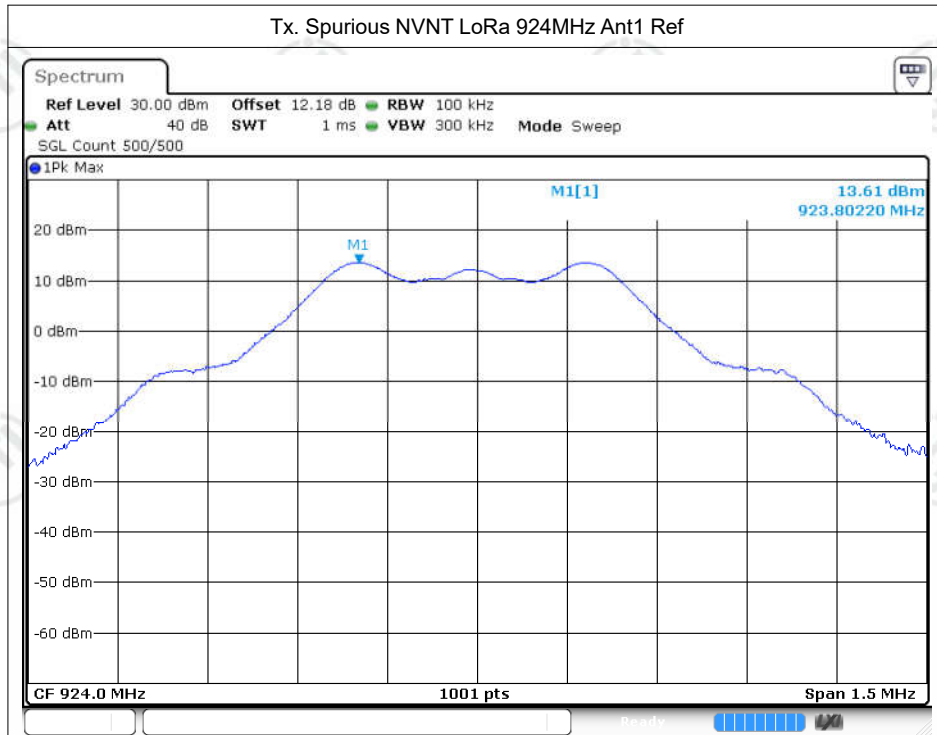
Date: 8.FEB.2023 18:42:19



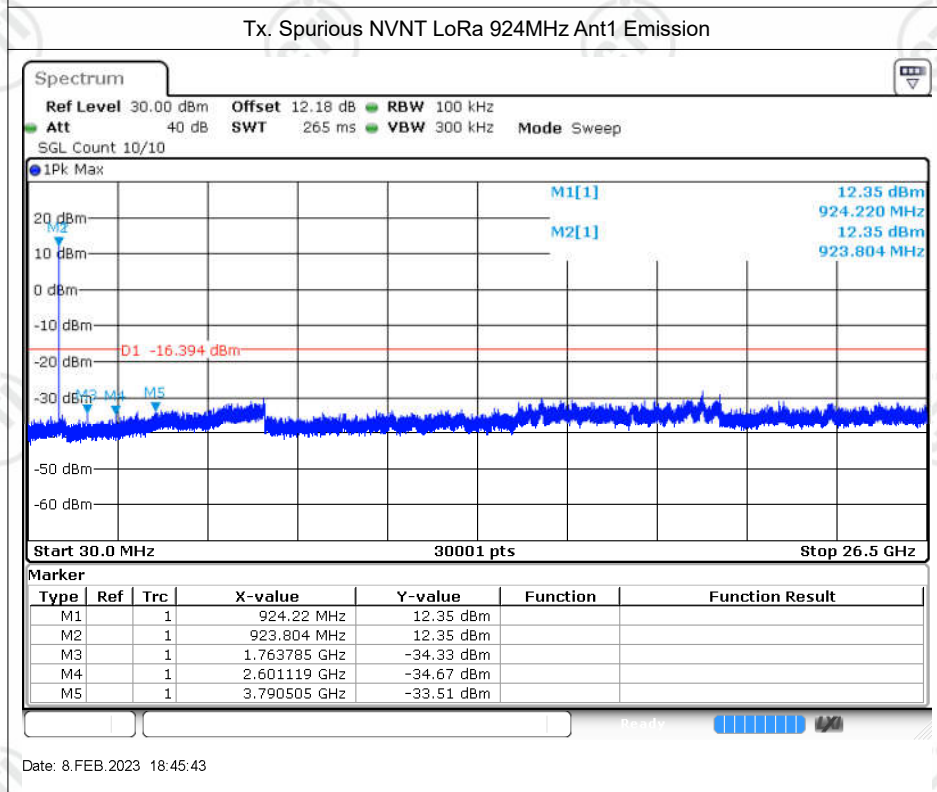
Date: 8.FEB.2023 18:44:03



Date: 8.FEB.2023 18:44:13



Date: 8.FEB.2023 18:45:33



Date: 8.FEB.2023 18:45:43

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