# Appendix A for SHEM200900744201

## 1. Duty Cycle

### 1.1 Test Result

| Test Mode | Channel Frequency(MHz) | TX Type | ANT No. | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|---|---|---|---|---|---|---|---|
| 802.11b | 2412 | SISO | 1 | 12.410 | 12.580 | 98.65 | 0.06 |
| | 2437 | SISO | 1 | 12.420 | 12.570 | 98.81 | 0.05 |
| | 2462 | SISO | 1 | 12.410 | 12.590 | 98.57 | 0.06 |
| 802.11g | 2412 | SISO | 1 | 2.033 | 2.201 | 92.37 | 0.34 |
| | 2437 | SISO | 1 | 2.063 | 2.224 | 92.76 | 0.33 |
| | 2462 | SISO | 1 | 2.039 | 2.190 | 93.11 | 0.31 |
| 802.11n(HT20) | 2412 | SISO | 1 | 1.890 | 2.058 | 91.84 | 0.37 |
| | 2437 | SISO | 1 | 1.895 | 2.035 | 93.12 | 0.31 |
| | 2462 | SISO | 1 | 1.896 | 2.047 | 92.62 | 0.33 |
| 802.11n(HT40) | 2422 | SISO | 1 | 0.916 | 1.072 | 85.45 | 0.68 |
| | 2437 | SISO | 1 | 0.916 | 1.082 | 84.66 | 0.72 |
| | 2452 | SISO | 1 | 0.943 | 1.114 | 84.65 | 0.72 |

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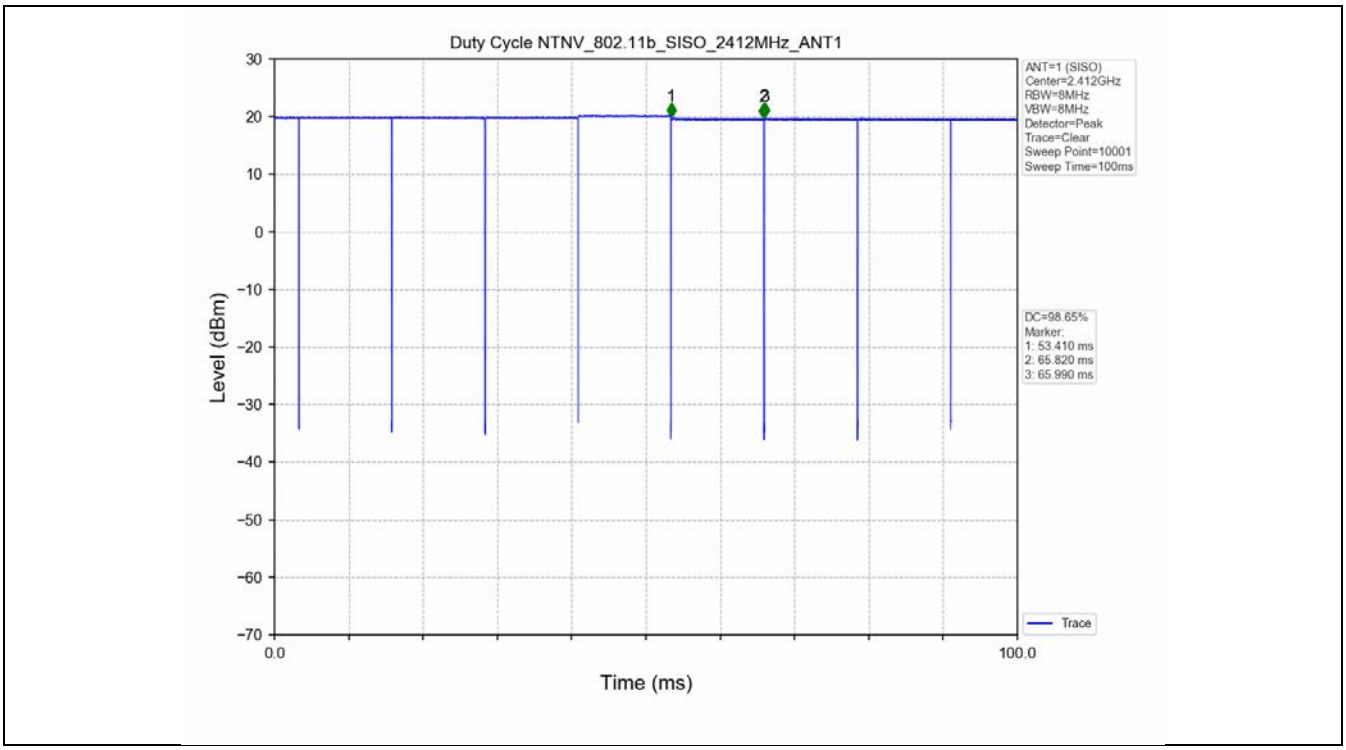
## 1.2 Test Graph

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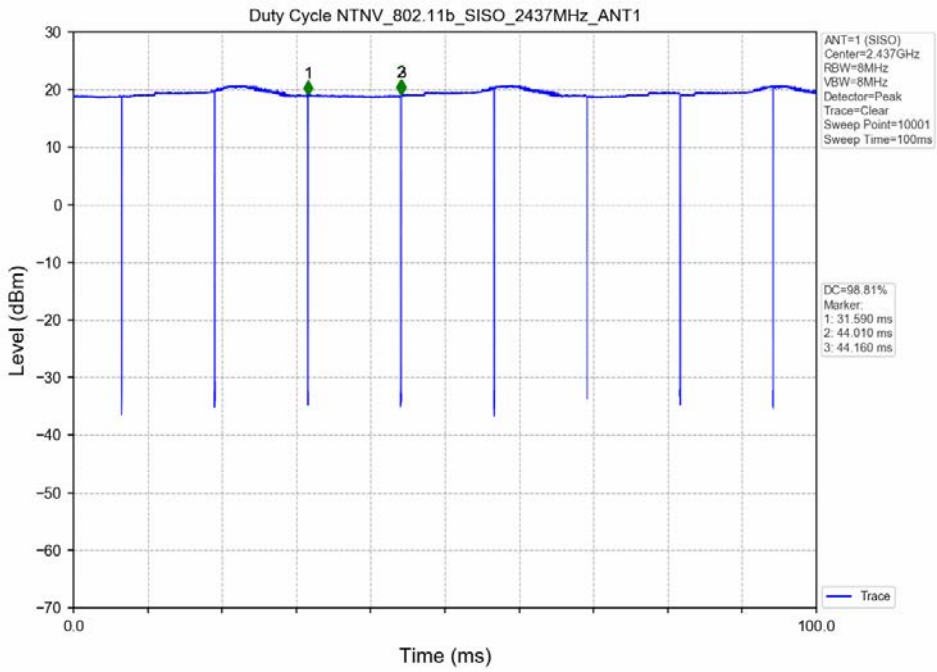


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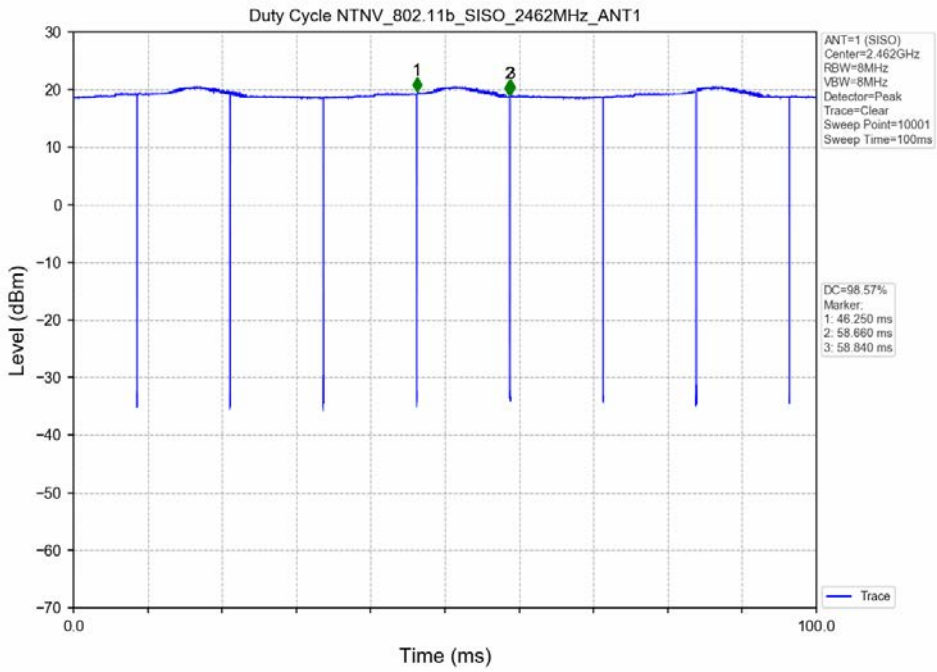


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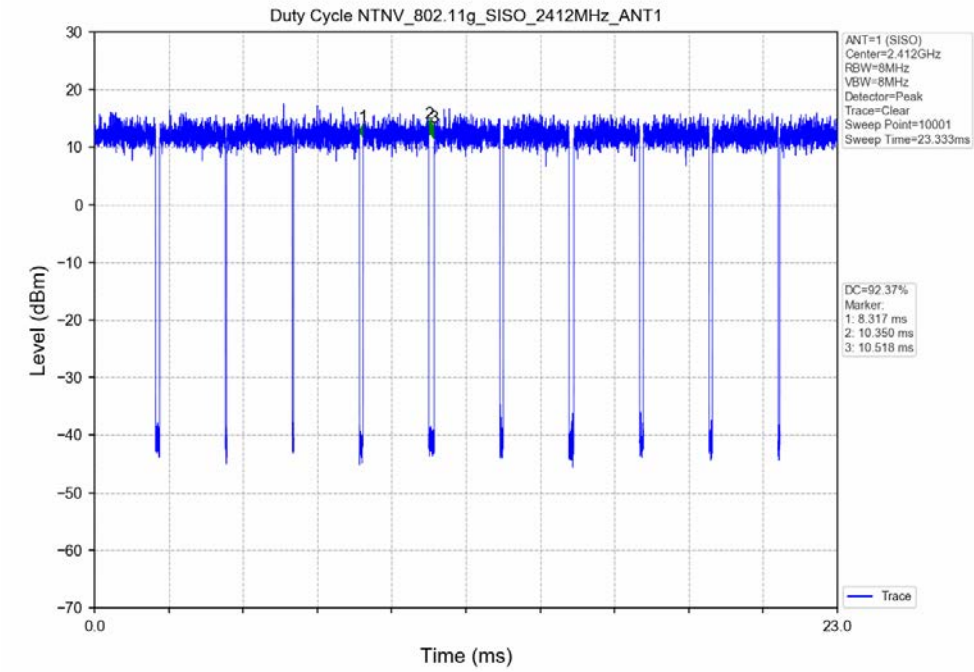


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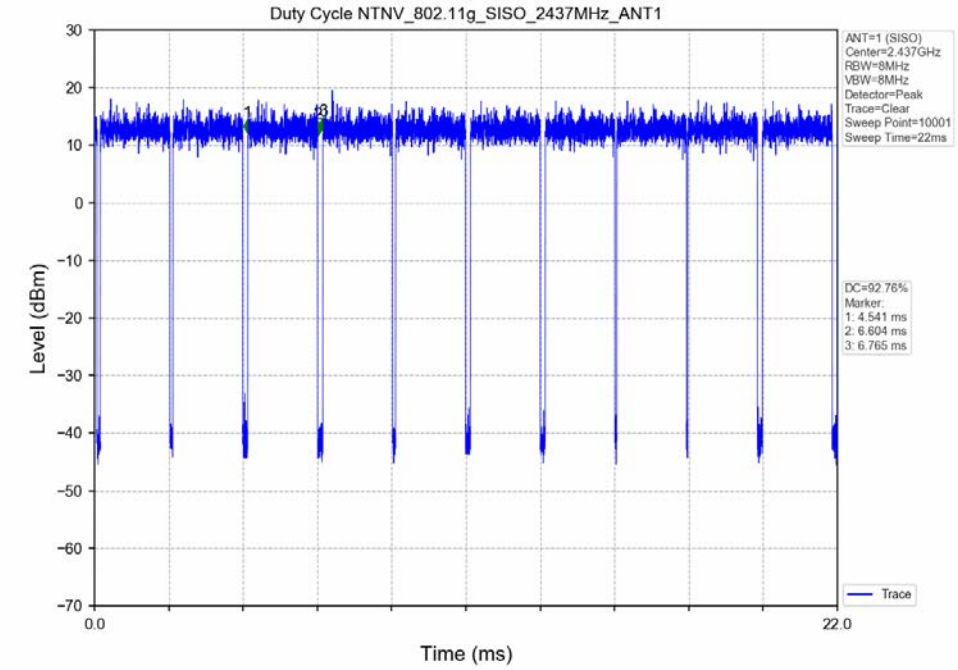


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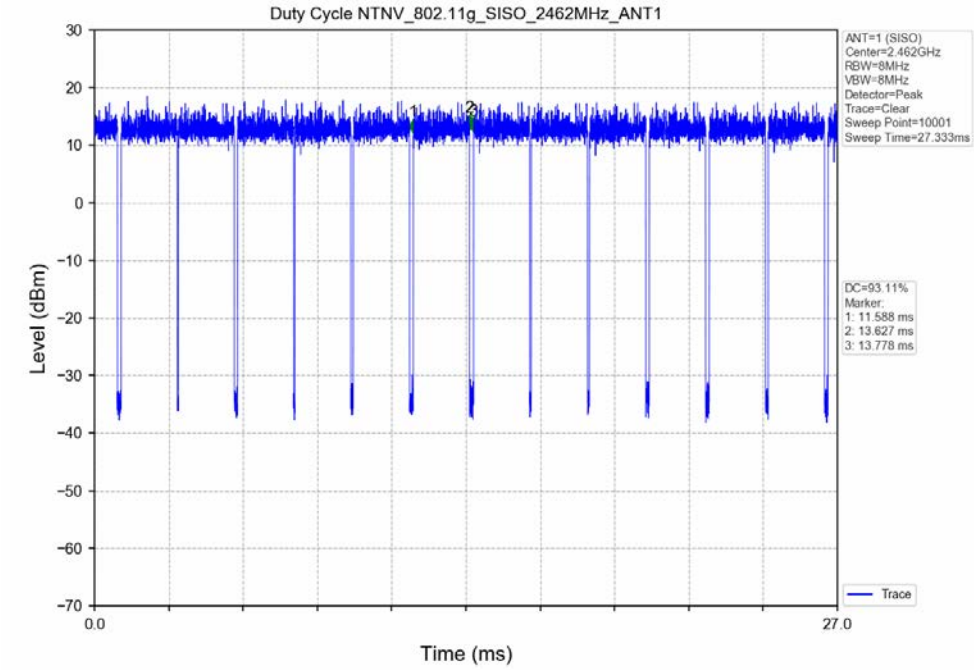


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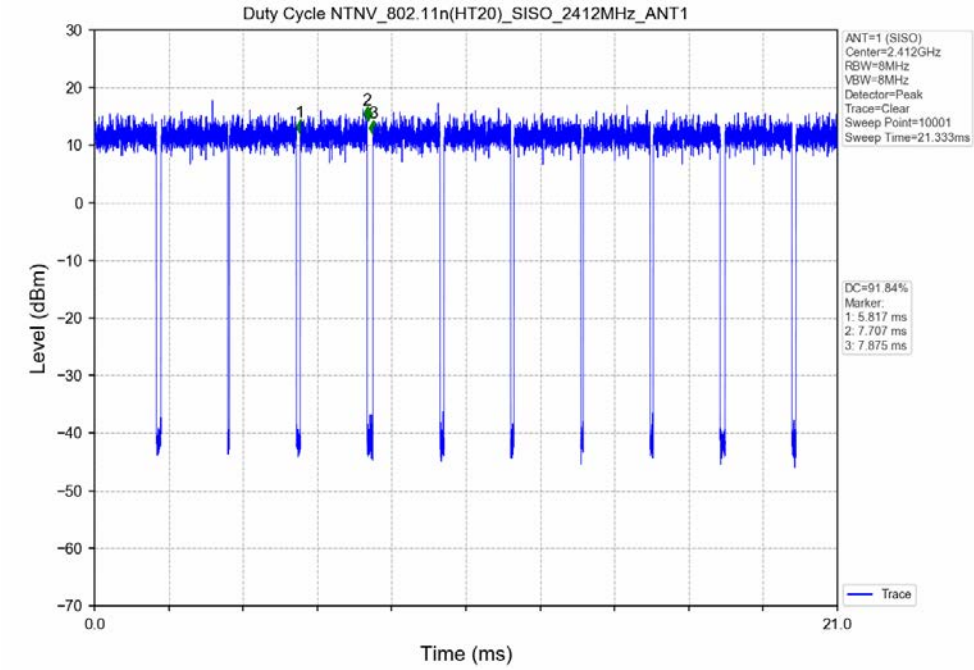


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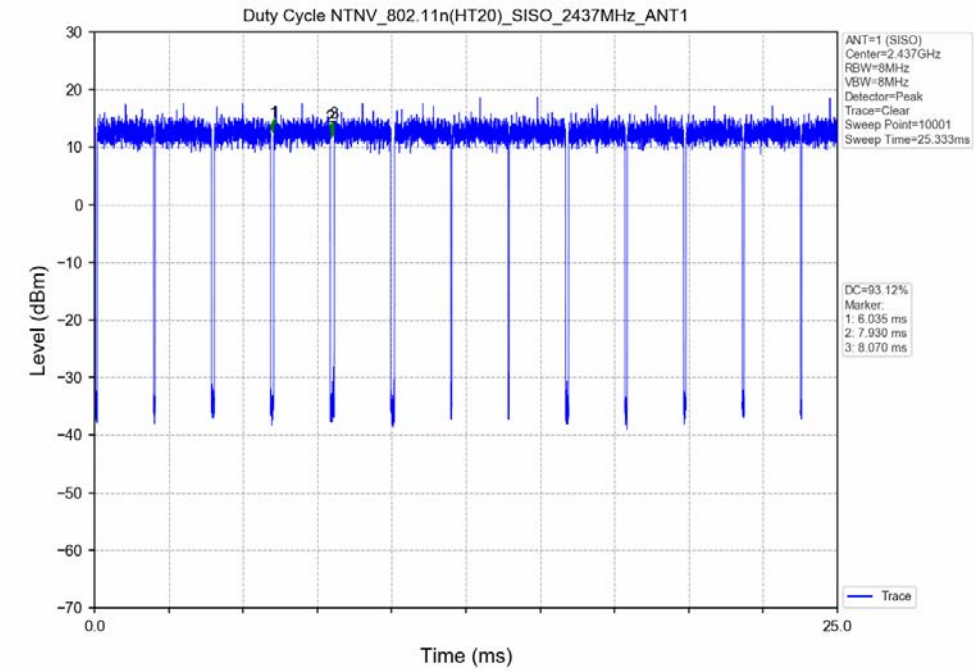


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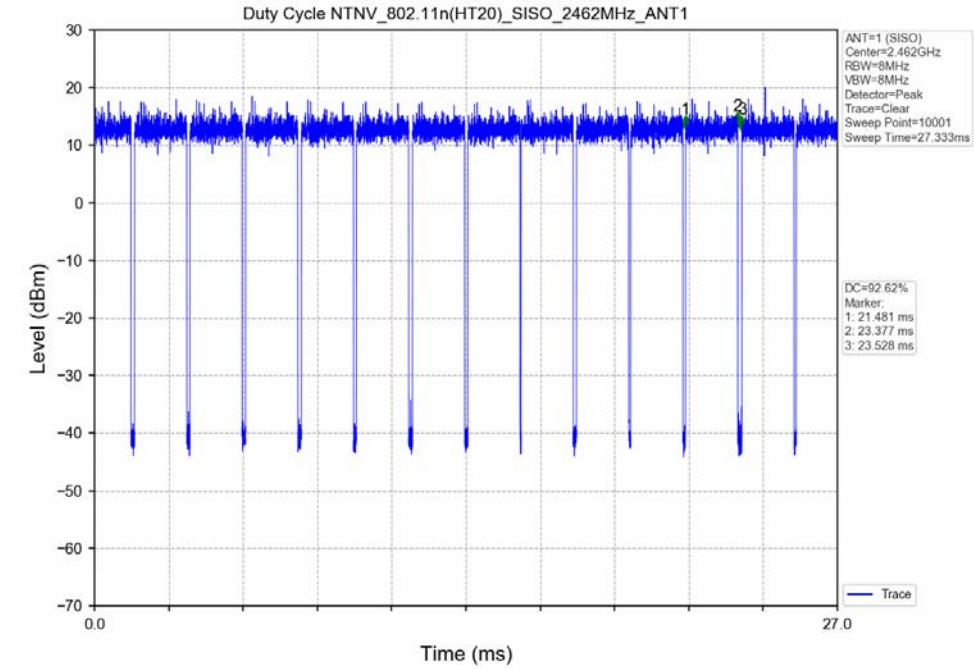


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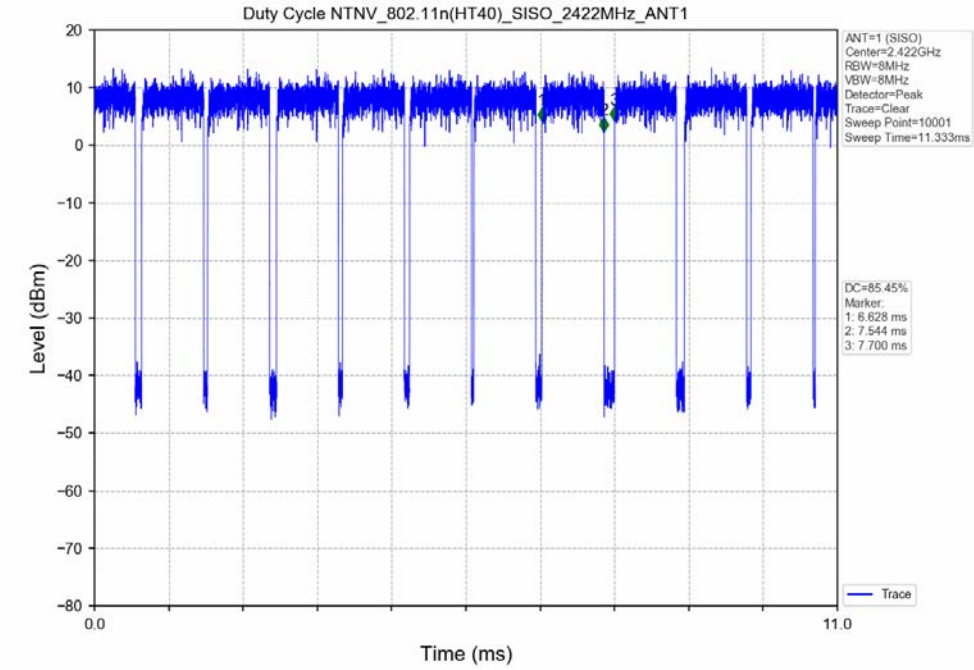


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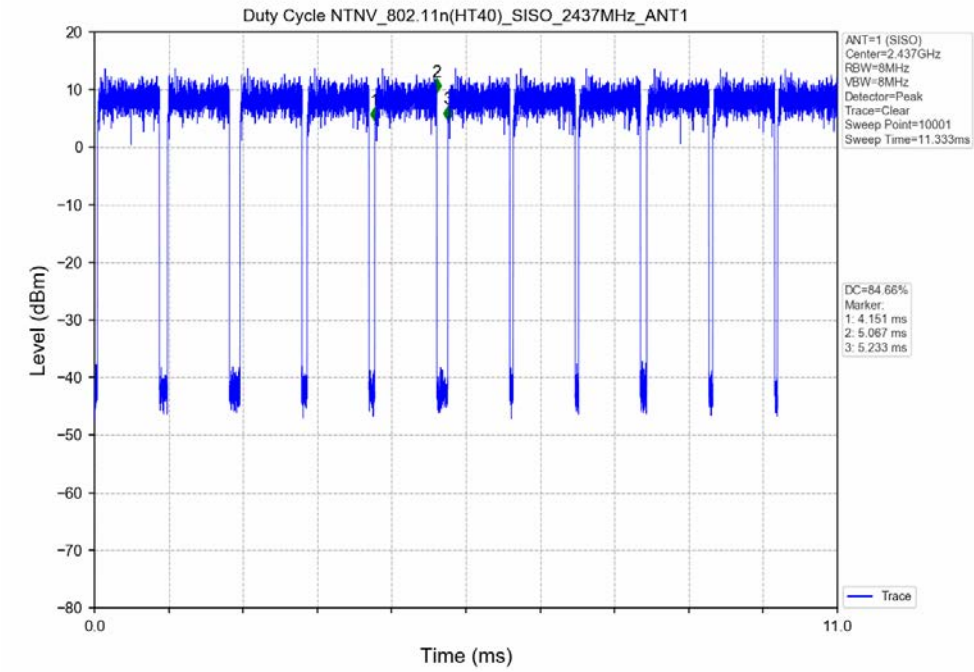


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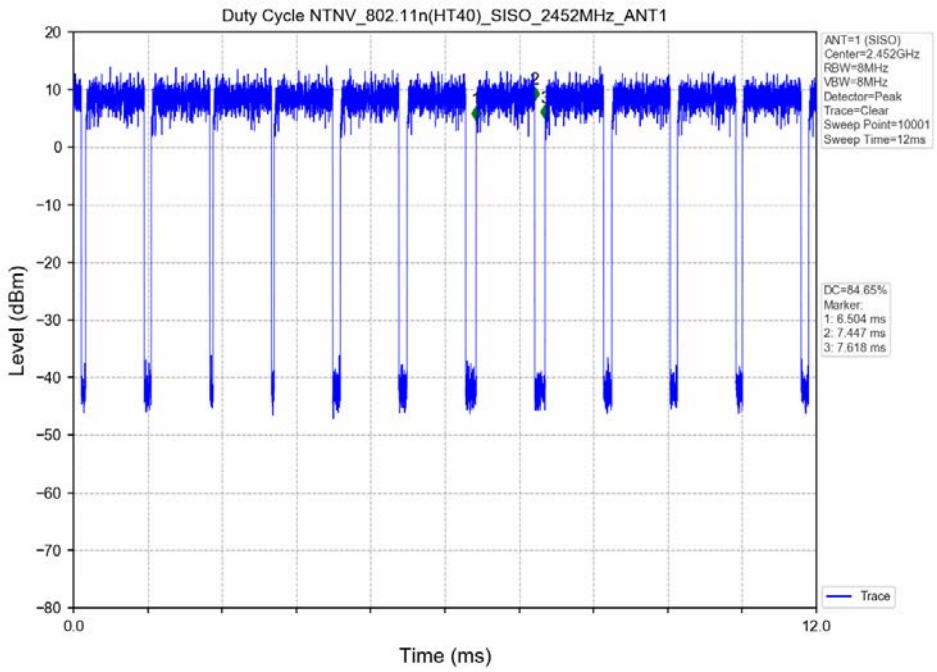


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## 2. Bandwidth

### 2.1 Test Result

| Test Mode | Frequency (MHz) | TX Type | ANT No. | 6dB Bandwidth | | Verdict |
|---|---|---|---|---|---|---|
| | | | | Test Result (MHz) | Limits (MHz) | |
| 802.11b | 2412 | SISO | 1 | 10.077 | ≥0.5 | PASS |
| | 2437 | SISO | 1 | 10.091 | ≥0.5 | PASS |
| | 2462 | SISO | 1 | 10.071 | ≥0.5 | PASS |
| 802.11g | 2412 | SISO | 1 | 16.404 | ≥0.5 | PASS |
| | 2437 | SISO | 1 | 16.389 | ≥0.5 | PASS |
| | 2462 | SISO | 1 | 16.388 | ≥0.5 | PASS |
| 802.11n(HT20) | 2412 | SISO | 1 | 17.574 | ≥0.5 | PASS |
| | 2437 | SISO | 1 | 17.599 | ≥0.5 | PASS |
| | 2462 | SISO | 1 | 17.588 | ≥0.5 | PASS |
| 802.11n(HT40) | 2422 | SISO | 1 | 35.537 | ≥0.5 | PASS |
| | 2437 | SISO | 1 | 35.604 | ≥0.5 | PASS |
| | 2452 | SISO | 1 | 35.551 | ≥0.5 | PASS |

| Test Mode | Frequency (MHz) | TX Type | ANT No. | 99% Occupied Bandwidth | |
|---|---|---|---|---|---|
| | | | | Test Result (MHz) | |
| 802.11b | 2412 | SISO | 1 | 14.956 | Only for Report Use |
| | 2437 | SISO | 1 | 14.923 | Only for Report Use |
| | 2462 | SISO | 1 | 14.932 | Only for Report Use |
| 802.11g | 2412 | SISO | 1 | 17.017 | Only for Report Use |
| | 2437 | SISO | 1 | 16.861 | Only for Report Use |
| | 2462 | SISO | 1 | 16.849 | Only for Report Use |
| 802.11n(HT20) | 2412 | SISO | 1 | 17.891 | Only for Report Use |
| | 2437 | SISO | 1 | 17.874 | Only for Report Use |
| | 2462 | SISO | 1 | 17.902 | Only for Report Use |
| 802.11n(HT40) | 2422 | SISO | 1 | 36.071 | Only for Report Use |
| | 2437 | SISO | 1 | 36.013 | Only for Report Use |
| | 2452 | SISO | 1 | 36.021 | Only for Report Use |

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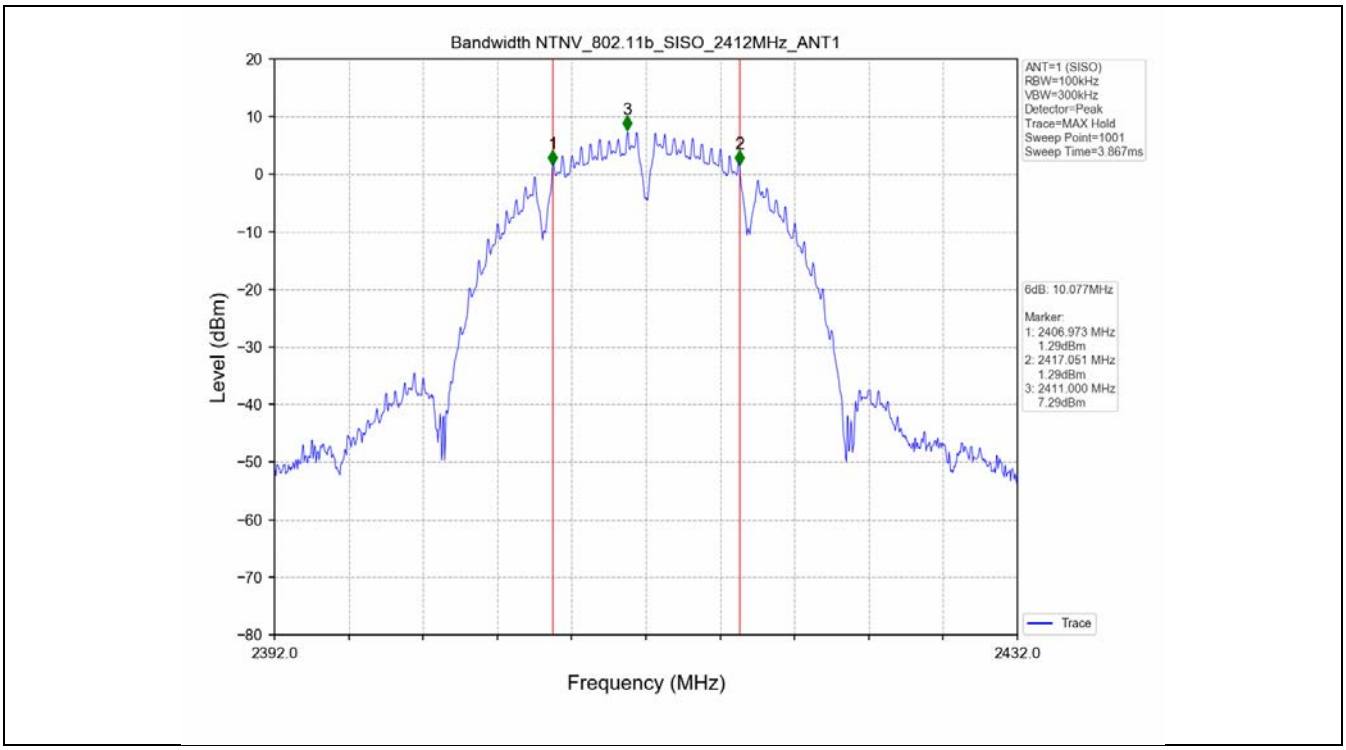
## 2.2 Test Graph - 6dB Bandwidth

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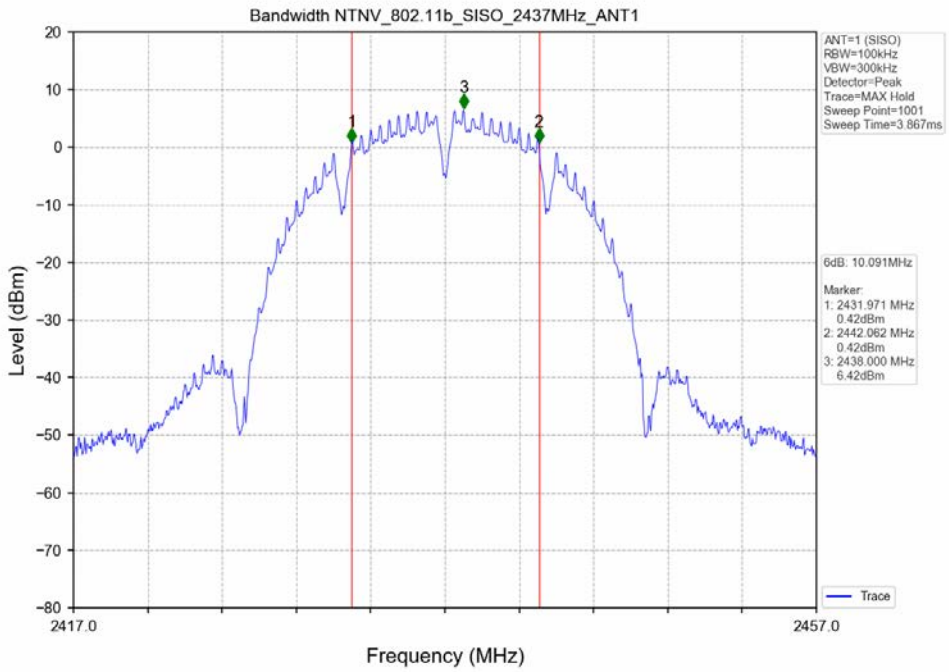


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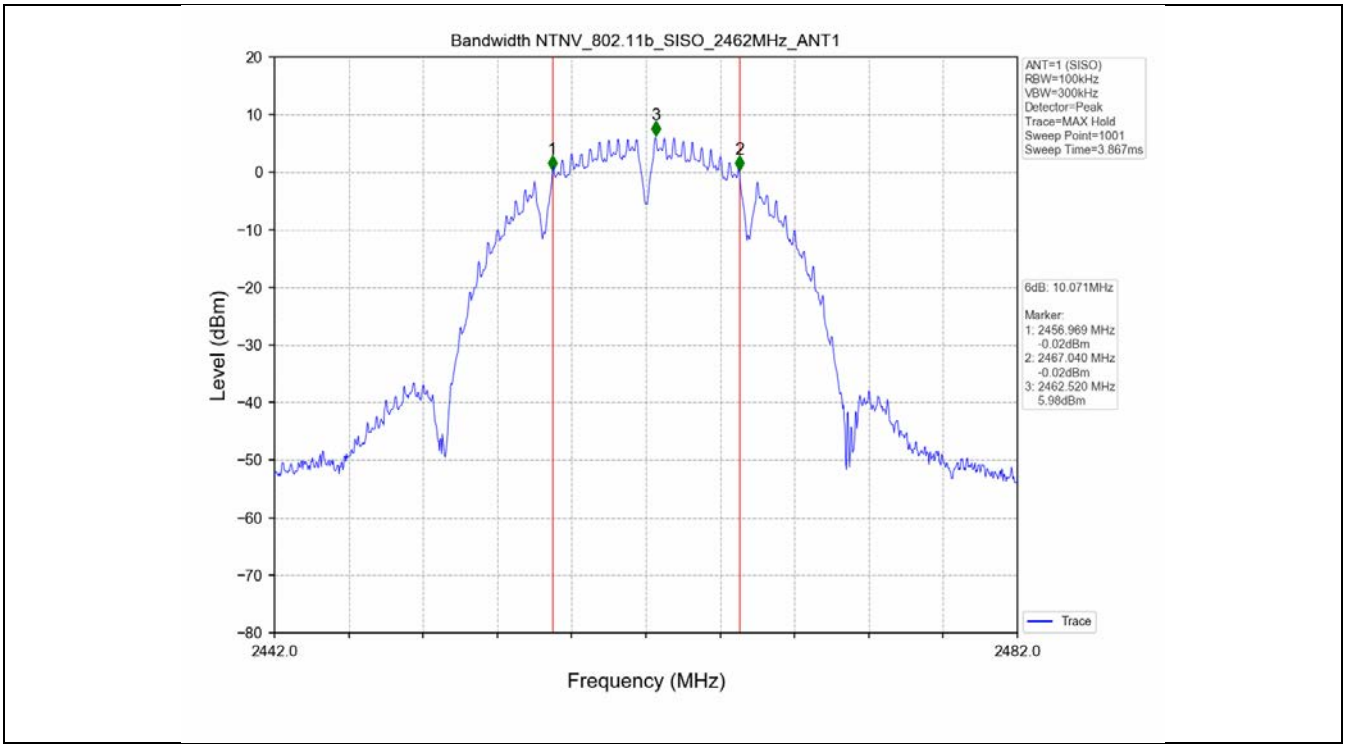


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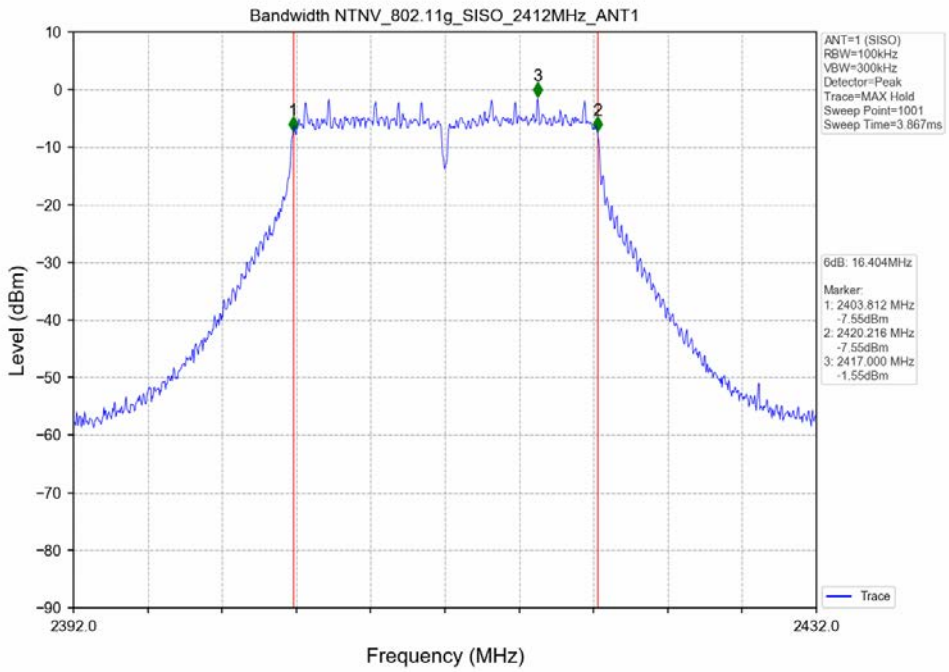


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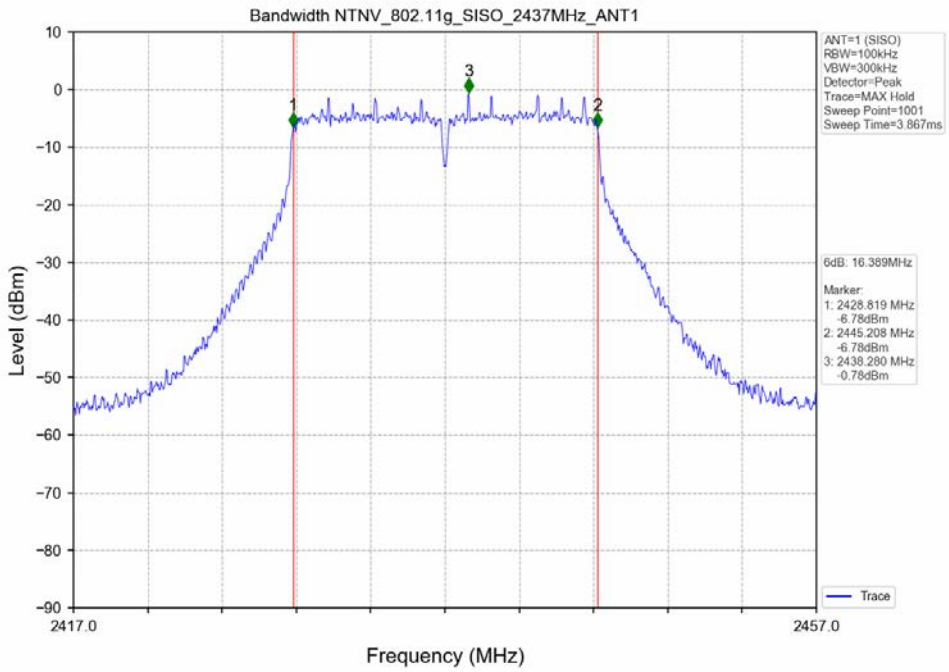


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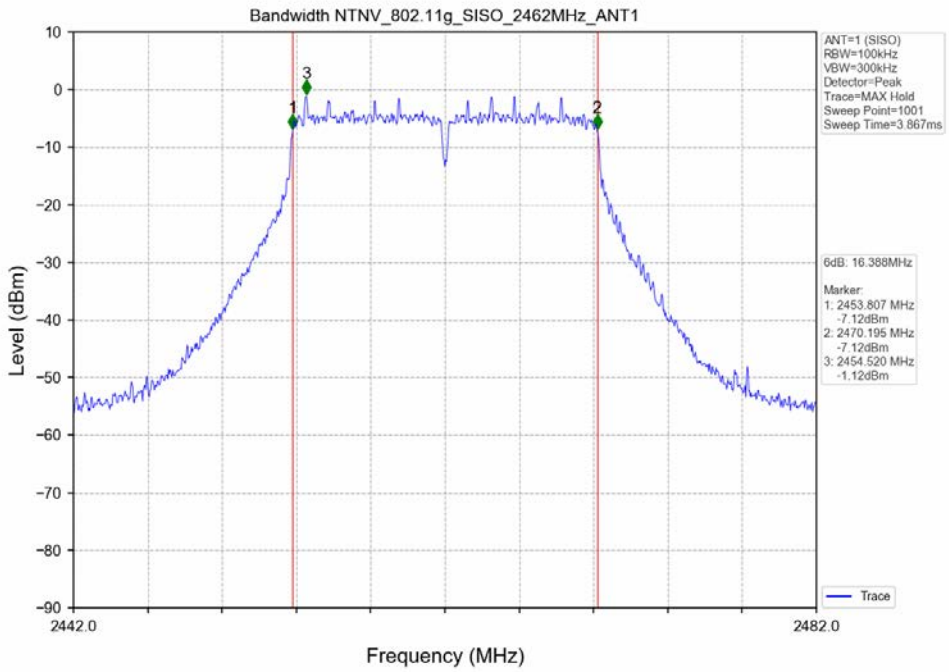


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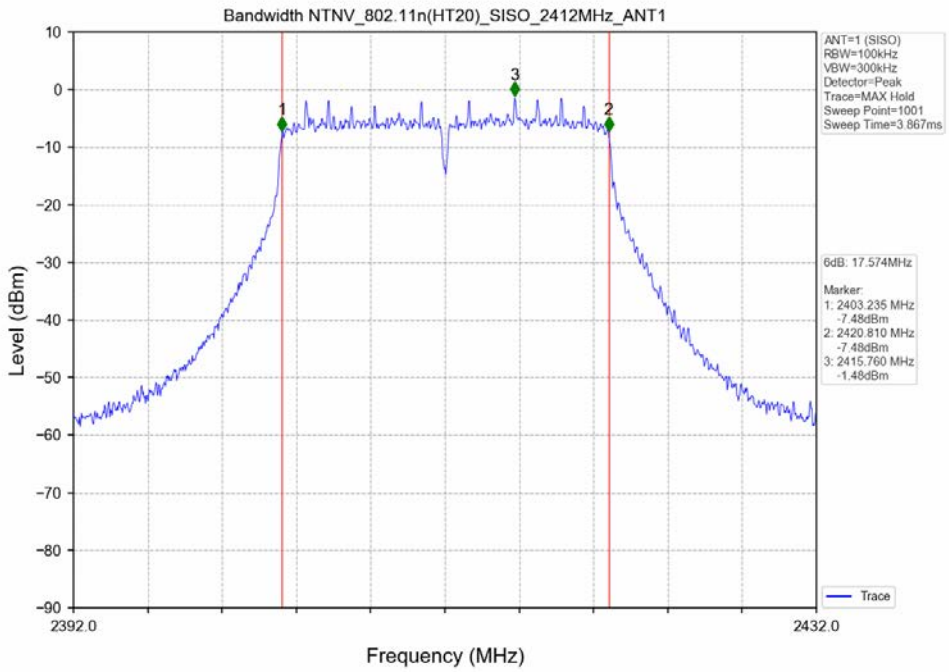


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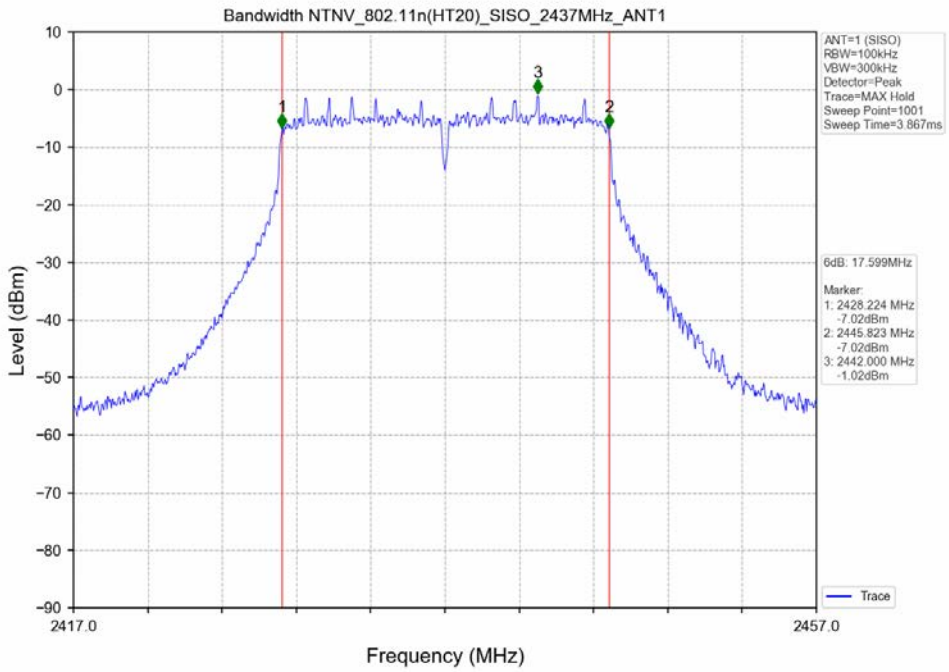


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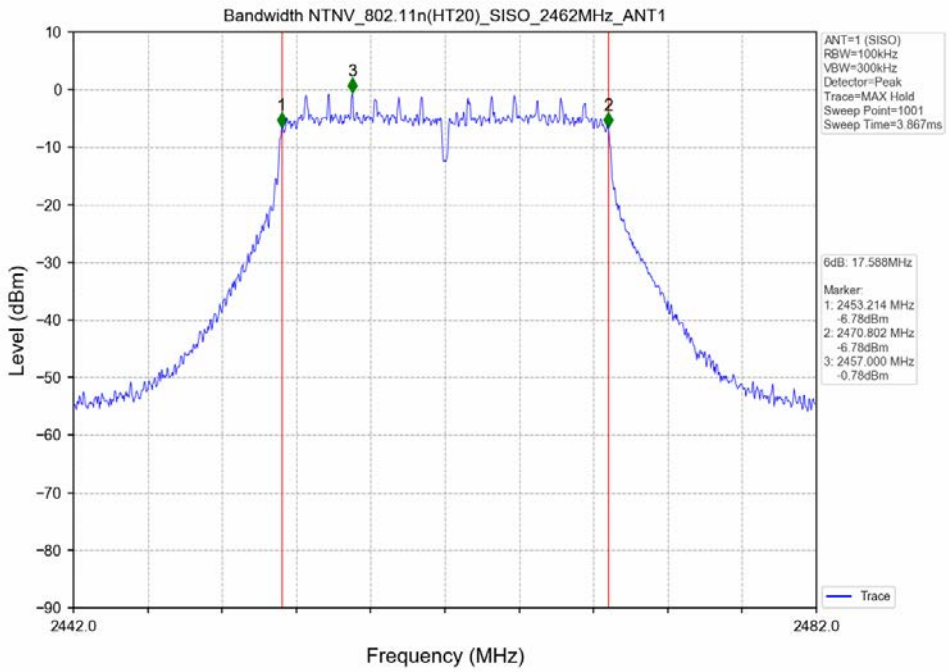


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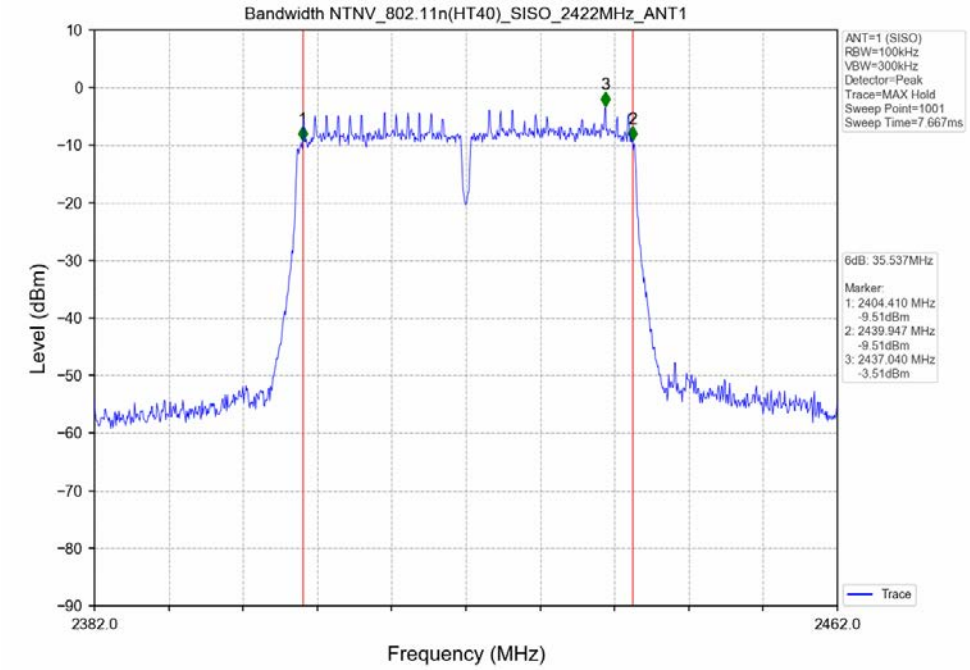


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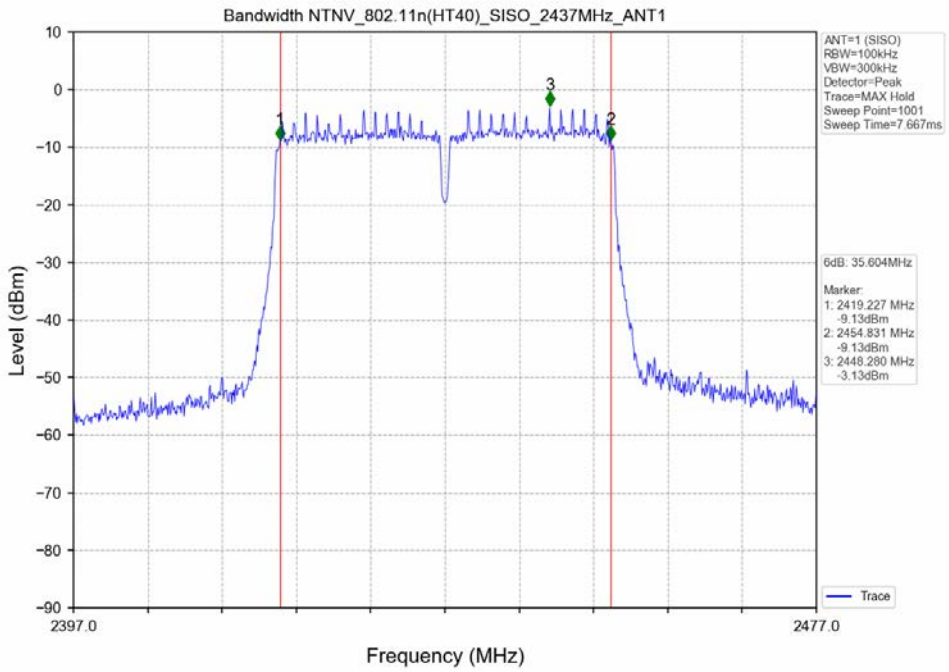


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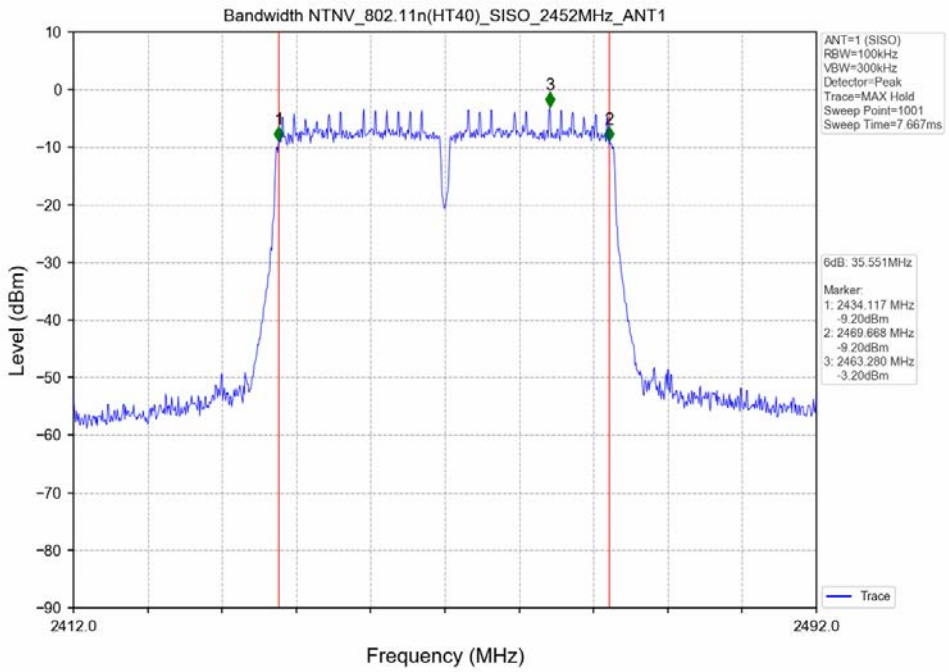


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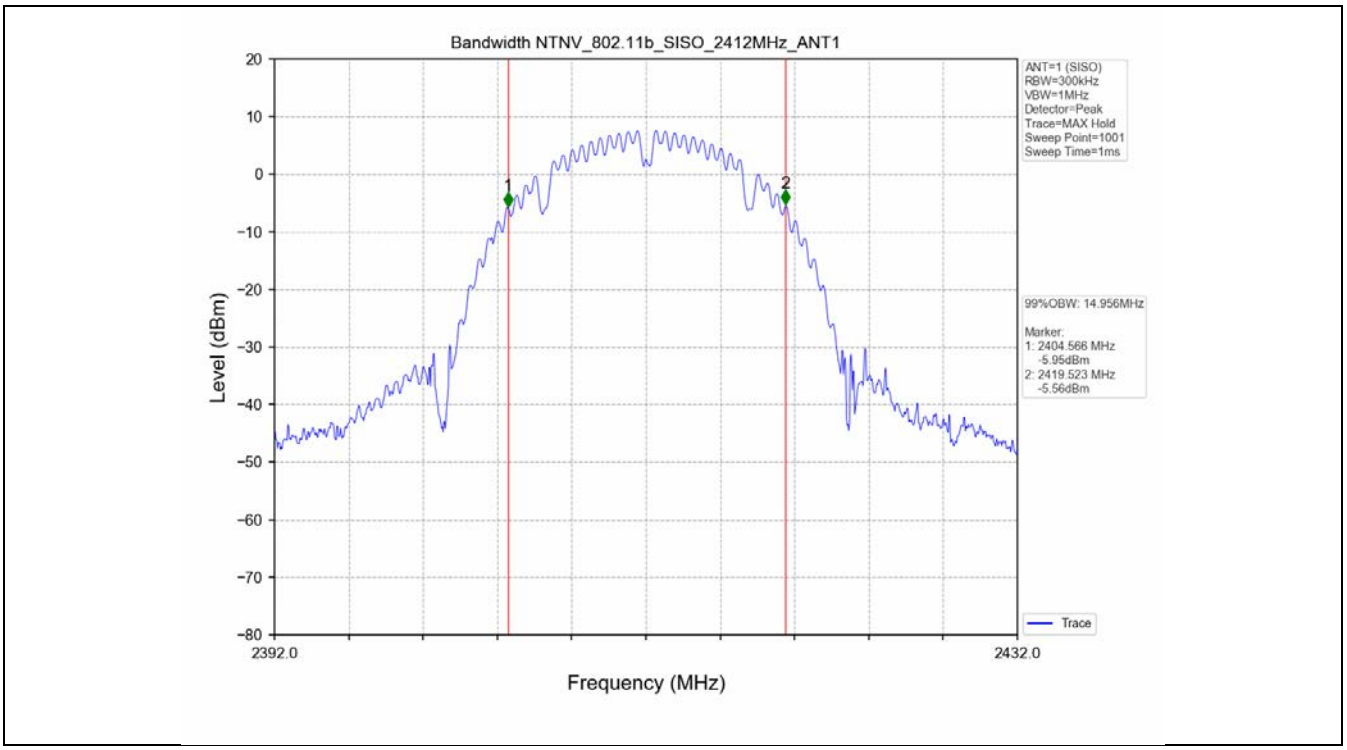
## 2.3 Test Graph - 99% Occupied Bandwidth

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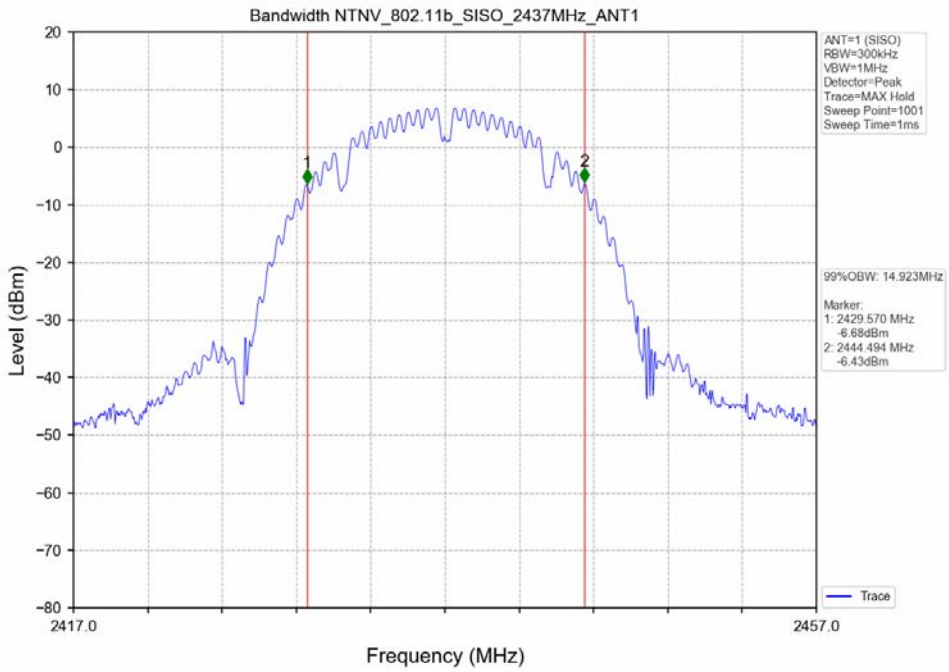


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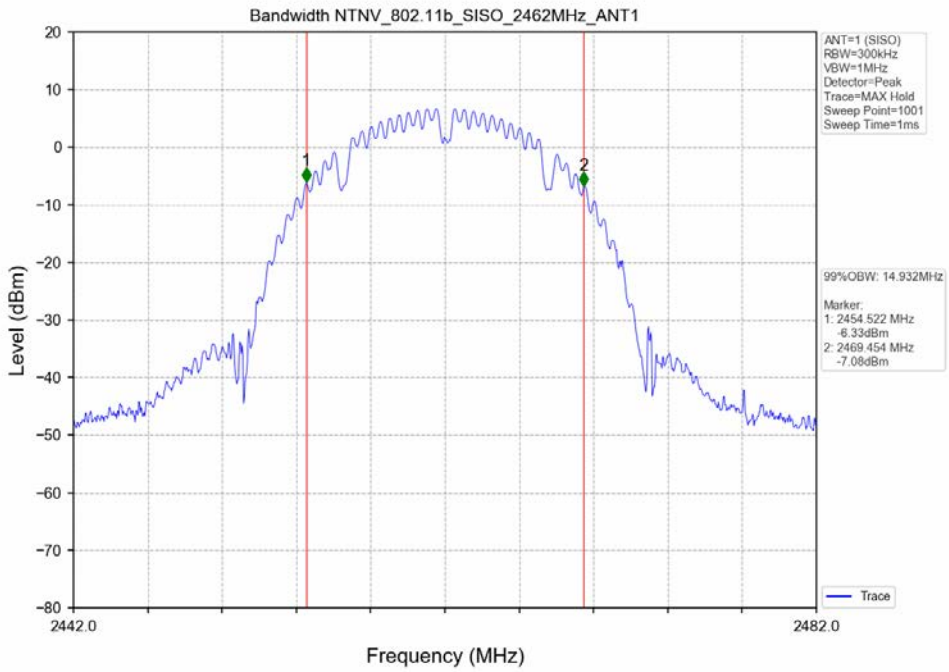


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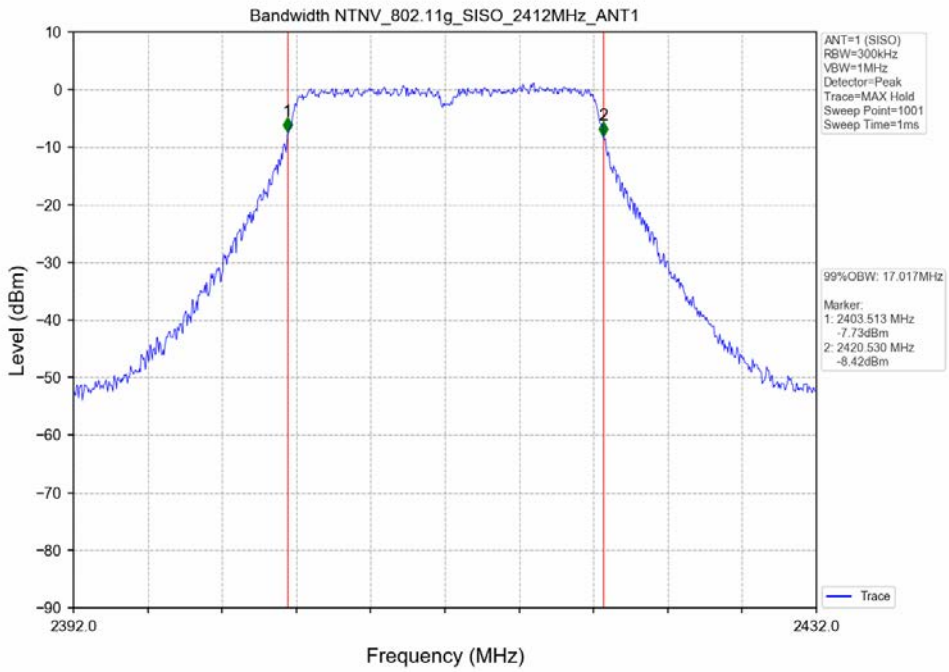


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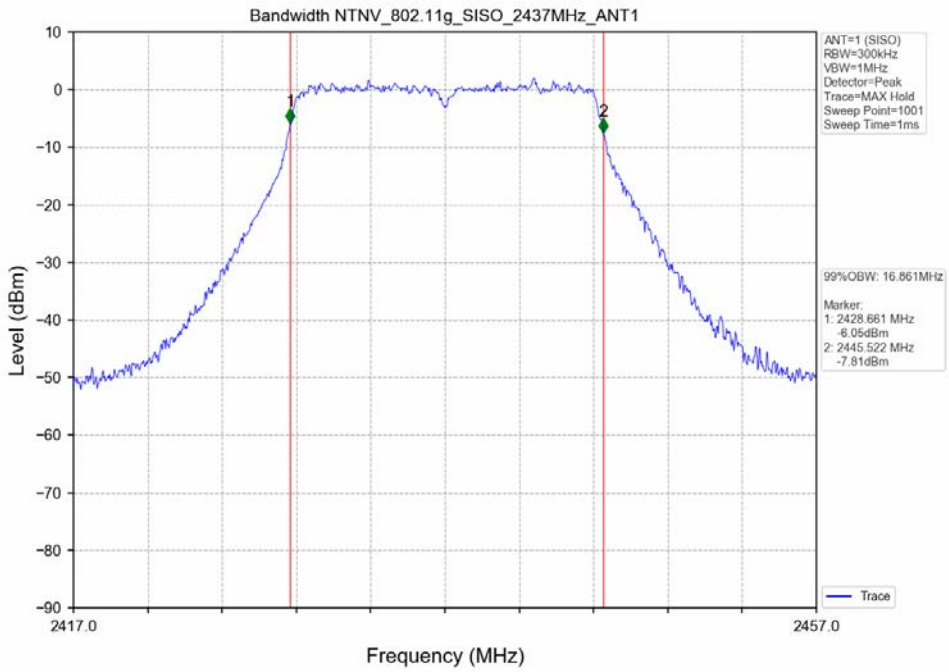


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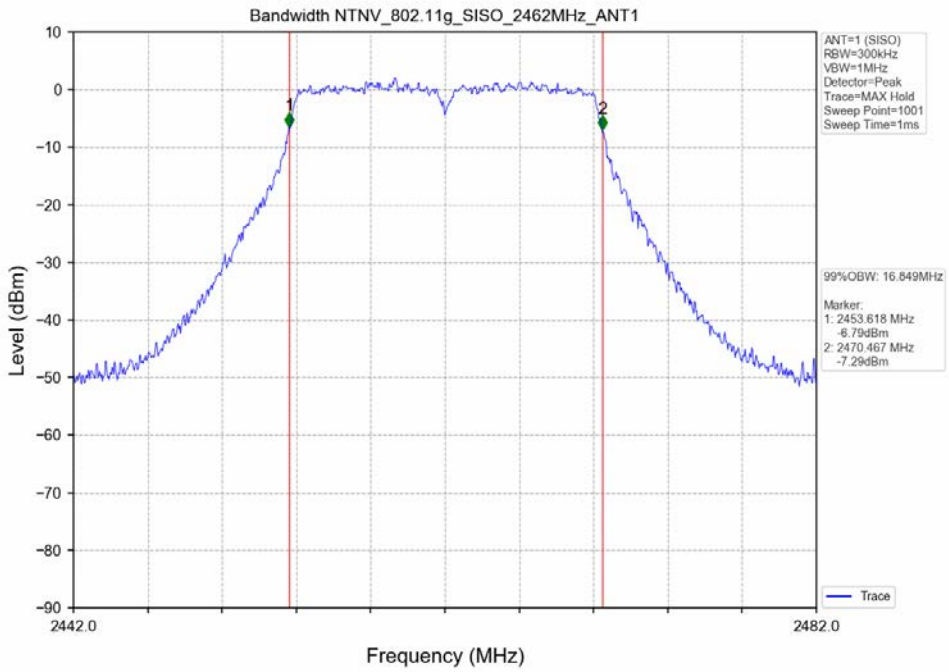


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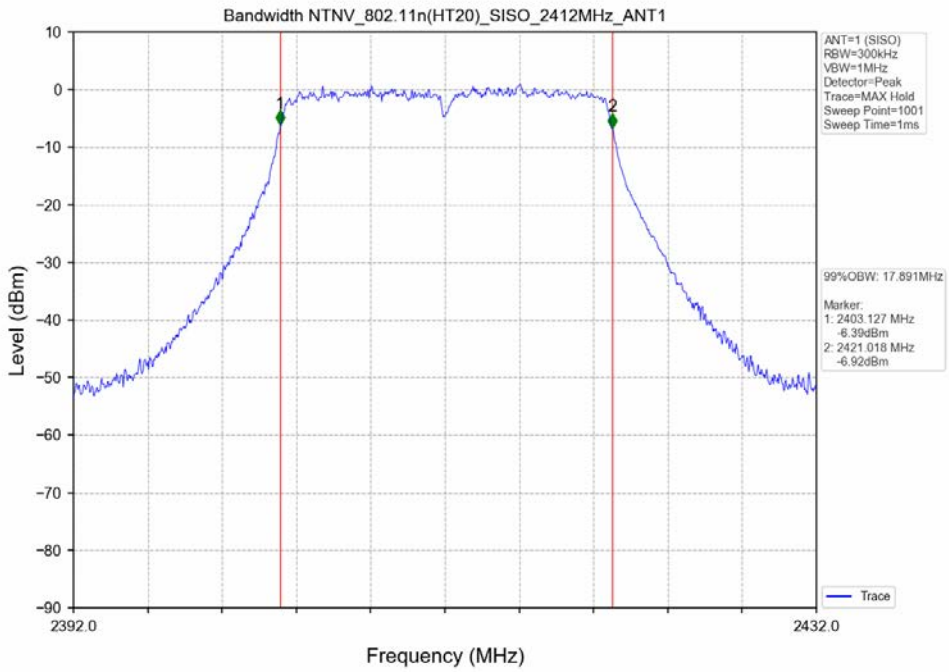


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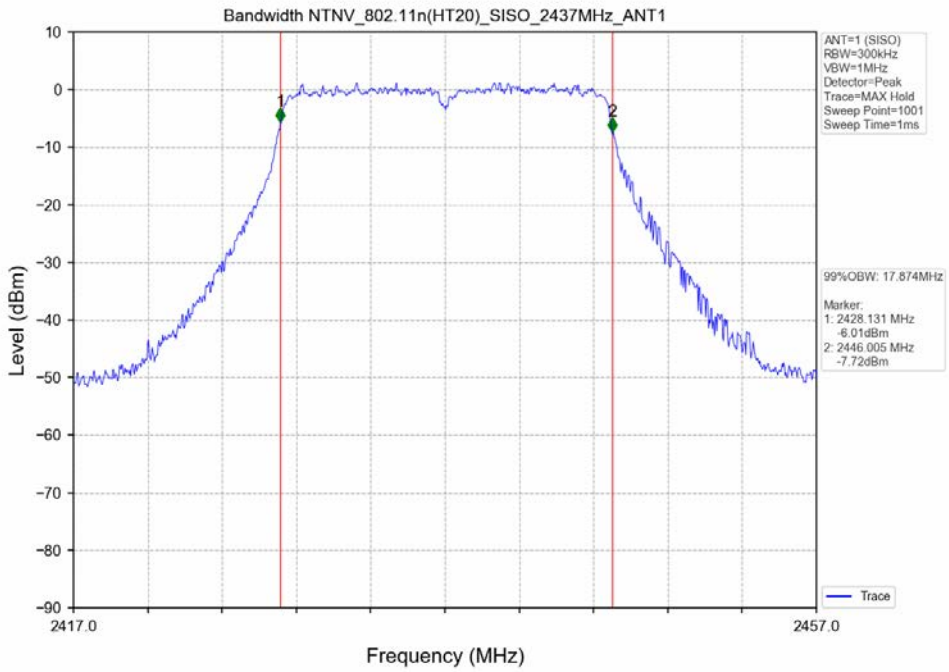


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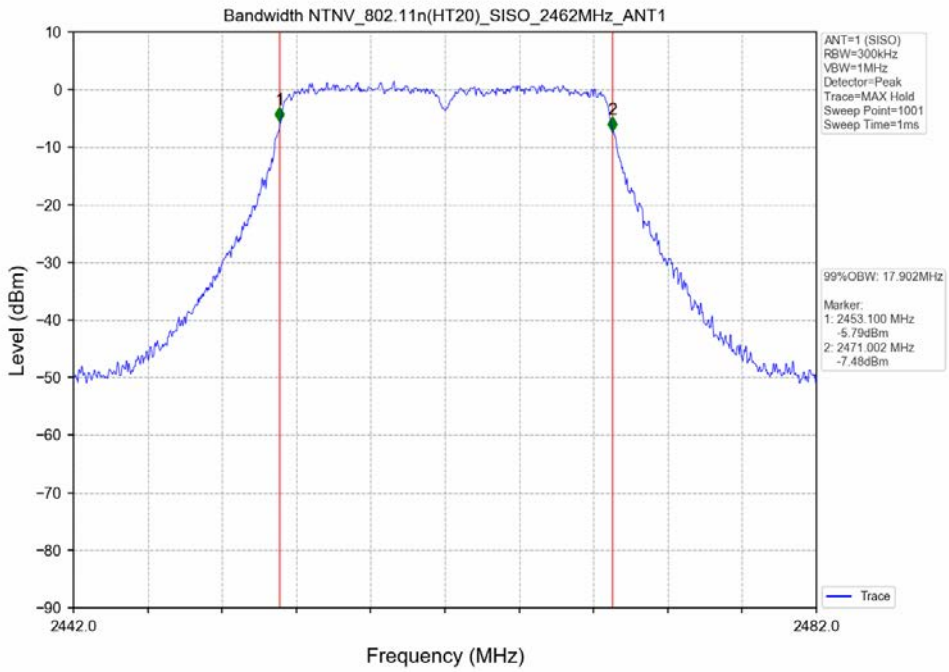


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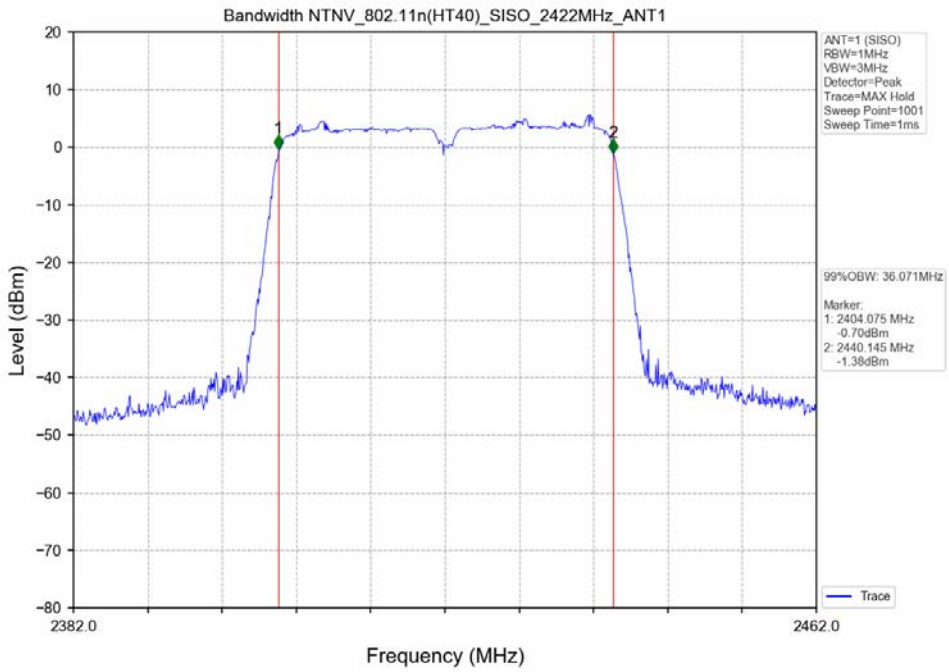


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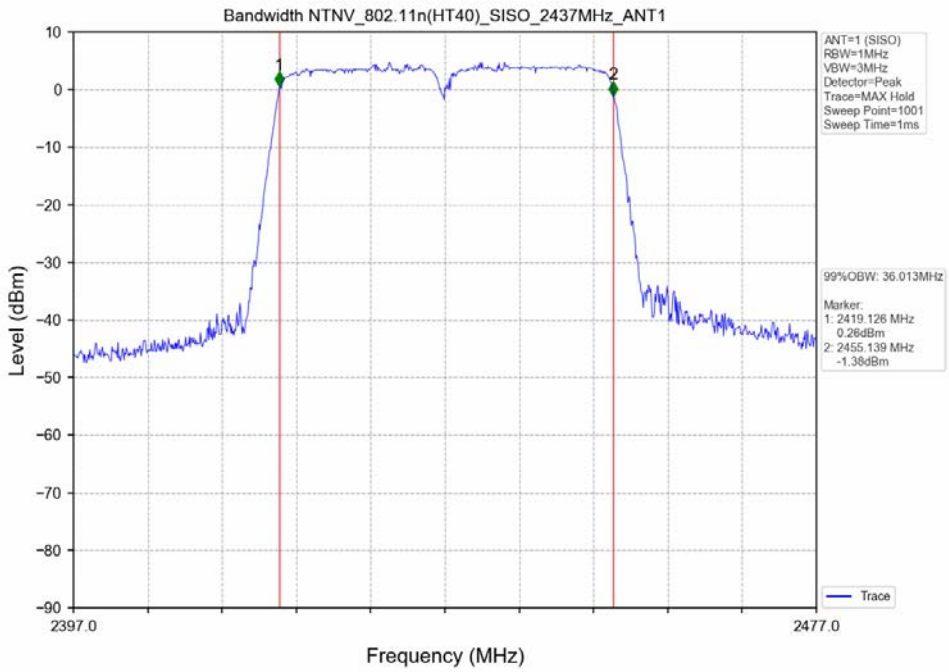


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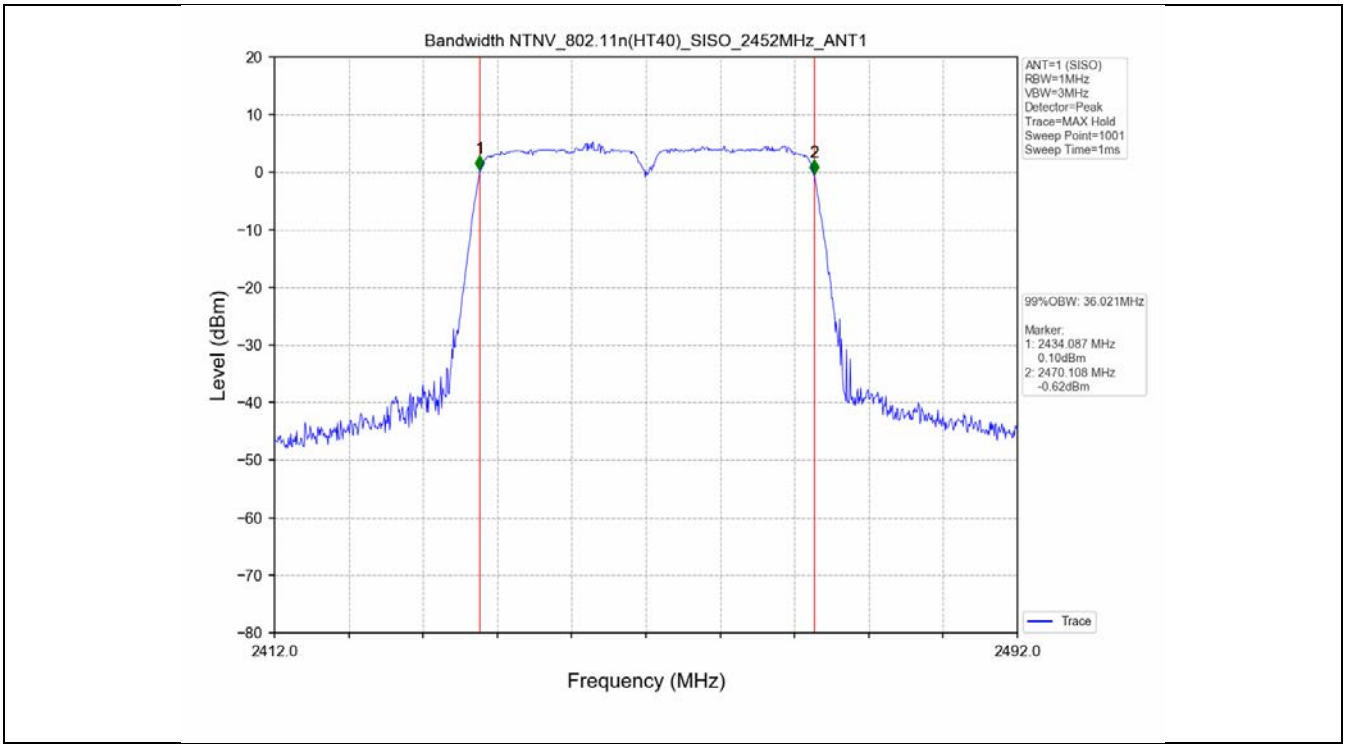


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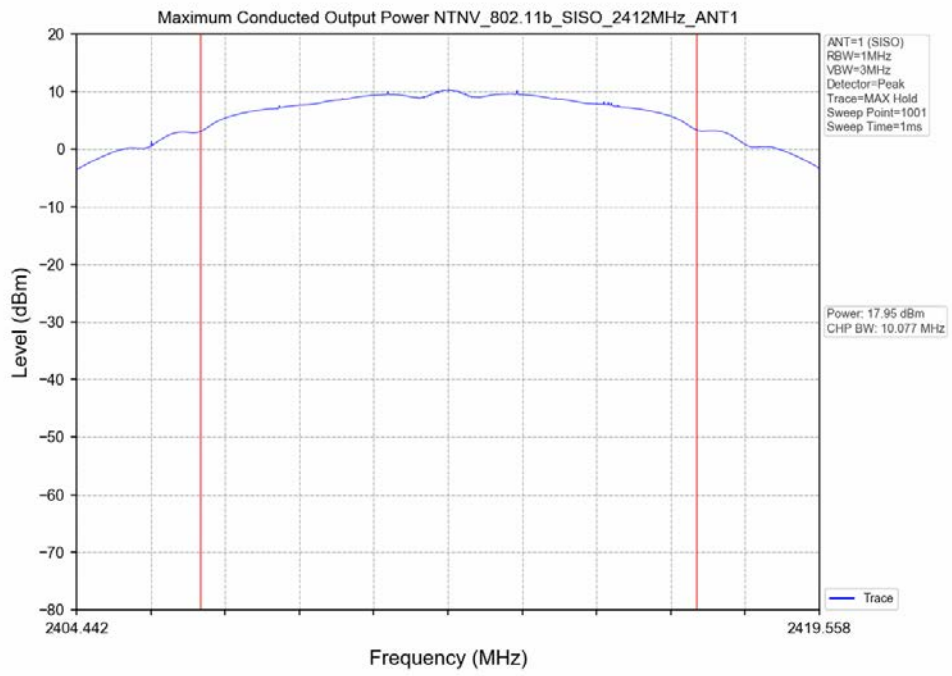
# 3. Maximum Conducted Output Power

## 3.1 Test Result

| Test Mode | Frequency (MHz) | Tx Type | Measured Peak Output Power (dBm) | Limits (dBm) | Verdict |
|---|---|---|---|---|---|
| | | | Ant 1 | | |
| 802.11b | 2412 | SISO | 17.95 | 30 | PASS |
| | 2437 | SISO | 18.13 | 30 | PASS |
| | 2462 | SISO | 17.98 | 30 | PASS |
| 802.11g | 2412 | SISO | 17.50 | 30 | PASS |
| | 2437 | SISO | 18.16 | 30 | PASS |
| | 2462 | SISO | 18.02 | 30 | PASS |
| 802.11n(HT20) | 2412 | SISO | 17.47 | 30 | PASS |
| | 2437 | SISO | 18.07 | 30 | PASS |
| | 2462 | SISO | 18.20 | 30 | PASS |
| 802.11n(HT40) | 2422 | SISO | 16.99 | 30 | PASS |
| | 2437 | SISO | 17.39 | 30 | PASS |
| | 2452 | SISO | 17.57 | 30 | PASS |

## 3.2 Test Graph

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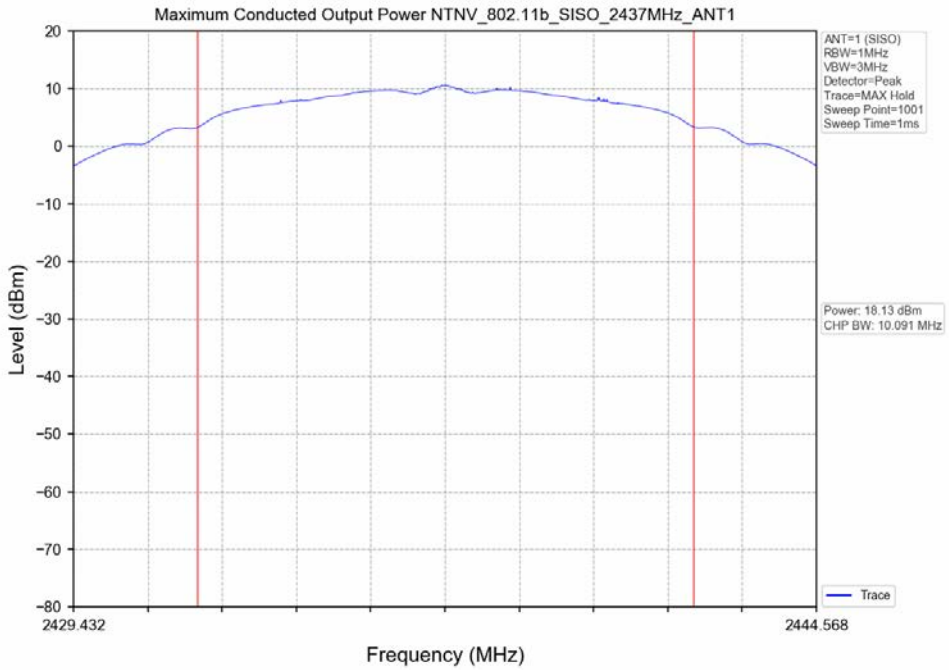


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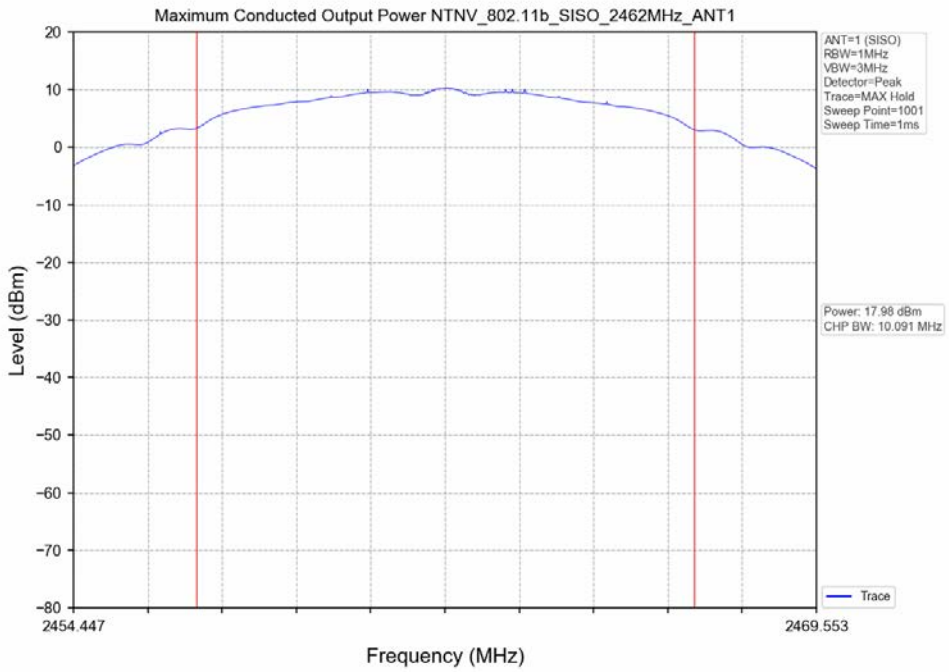


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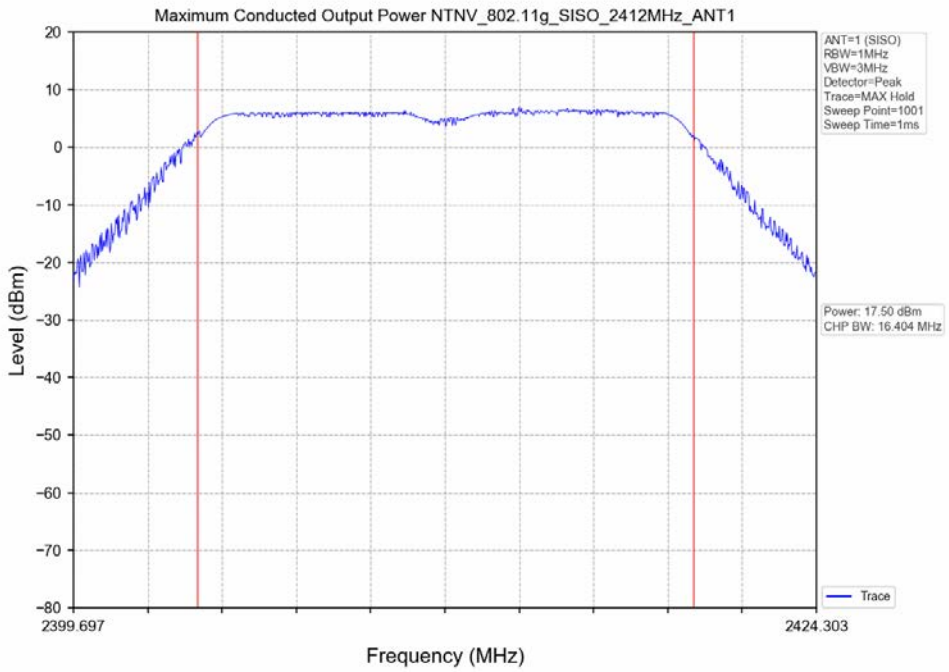


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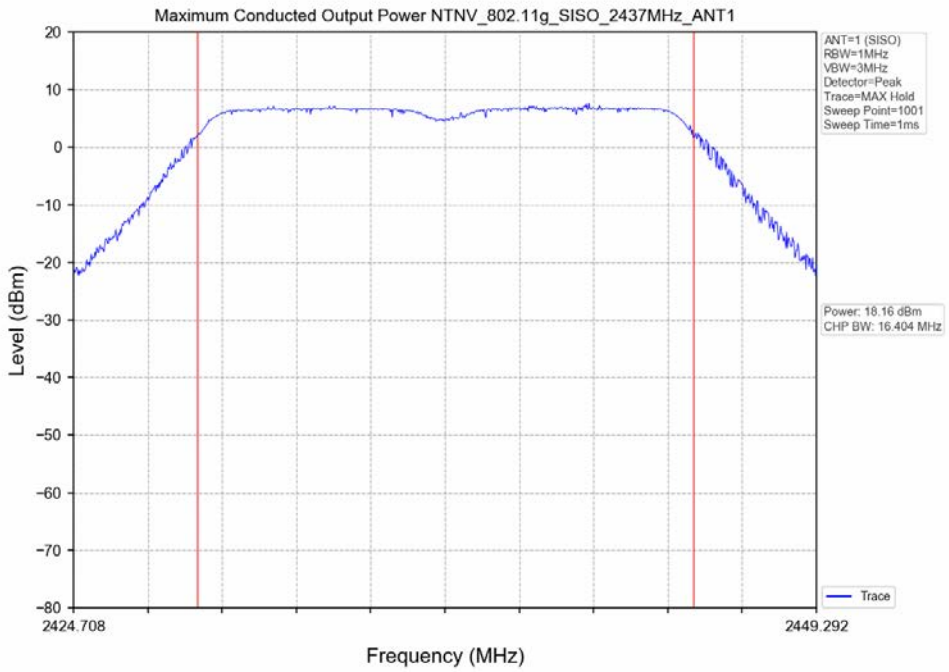


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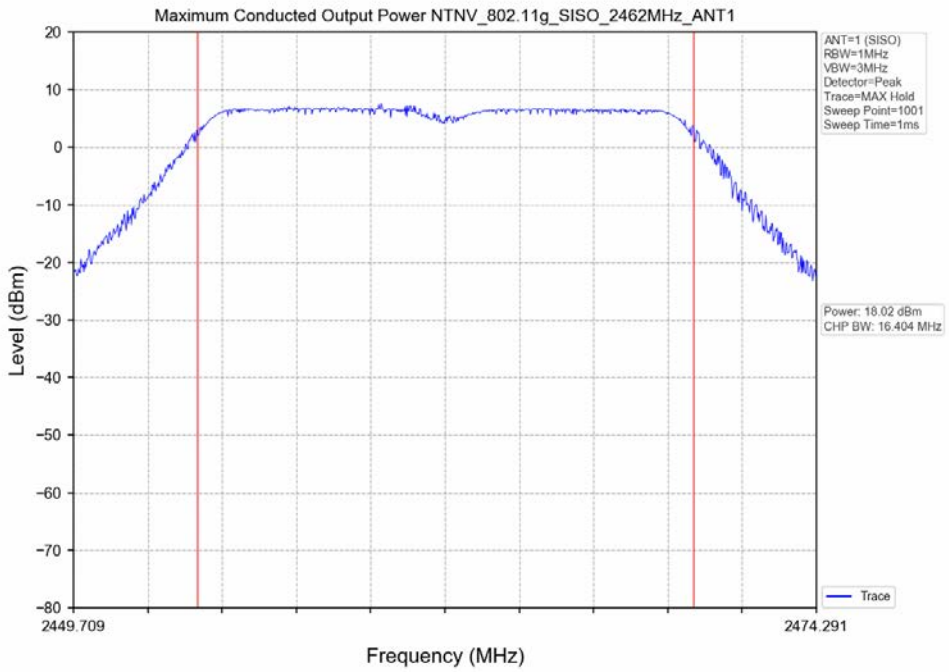


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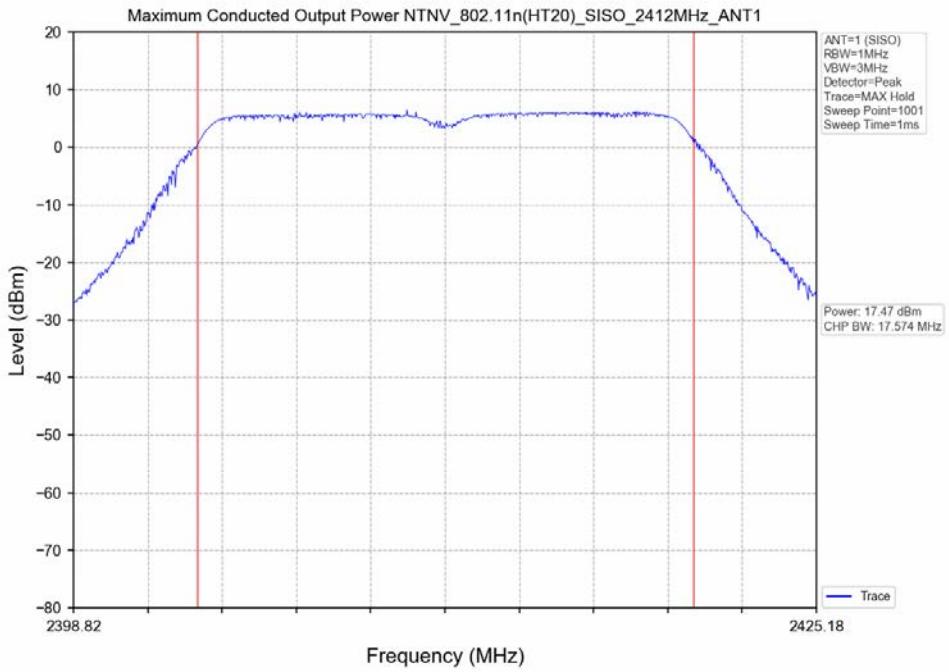


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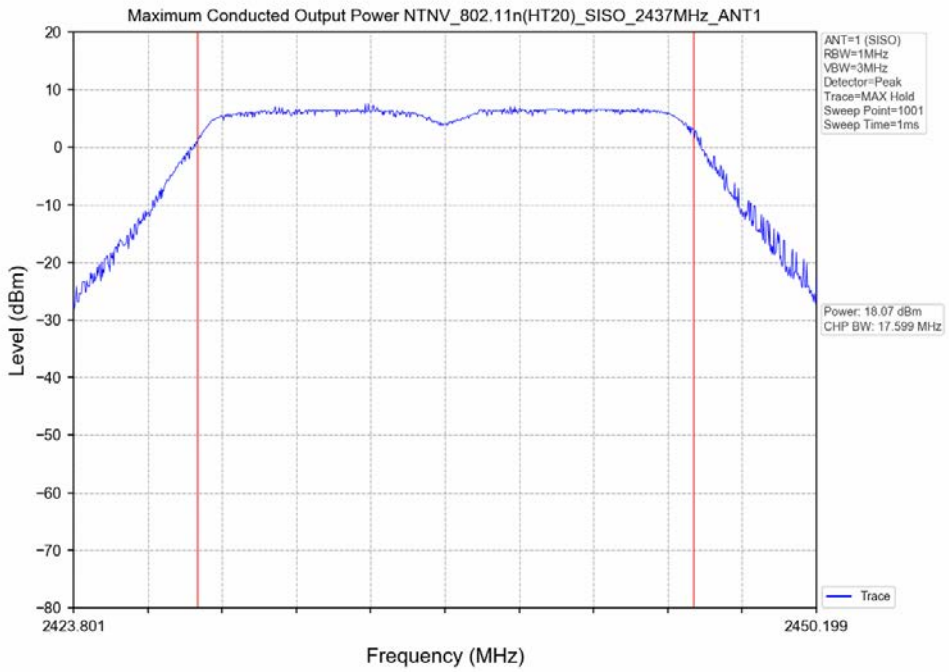


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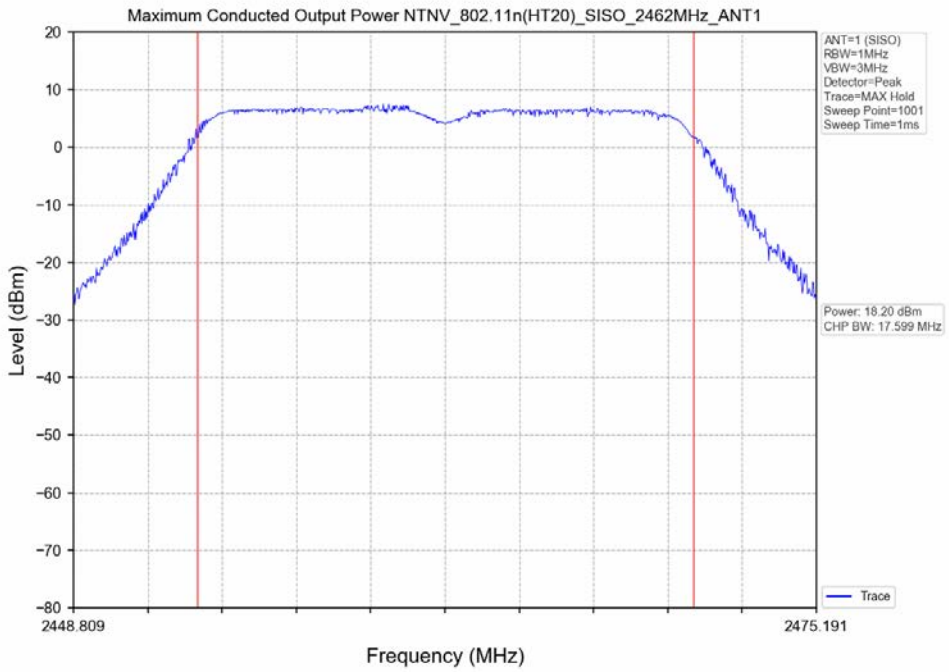


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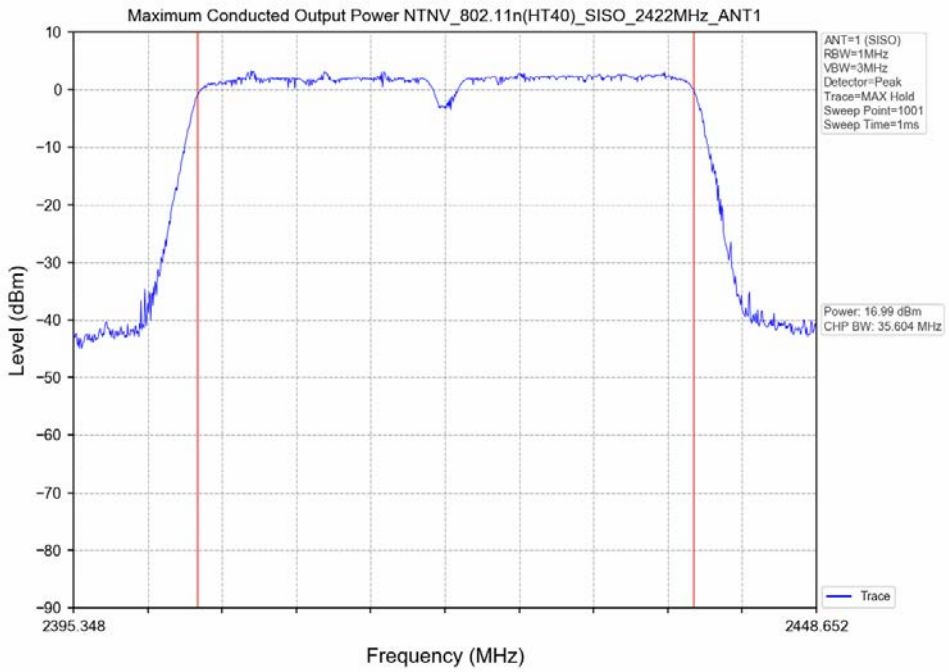


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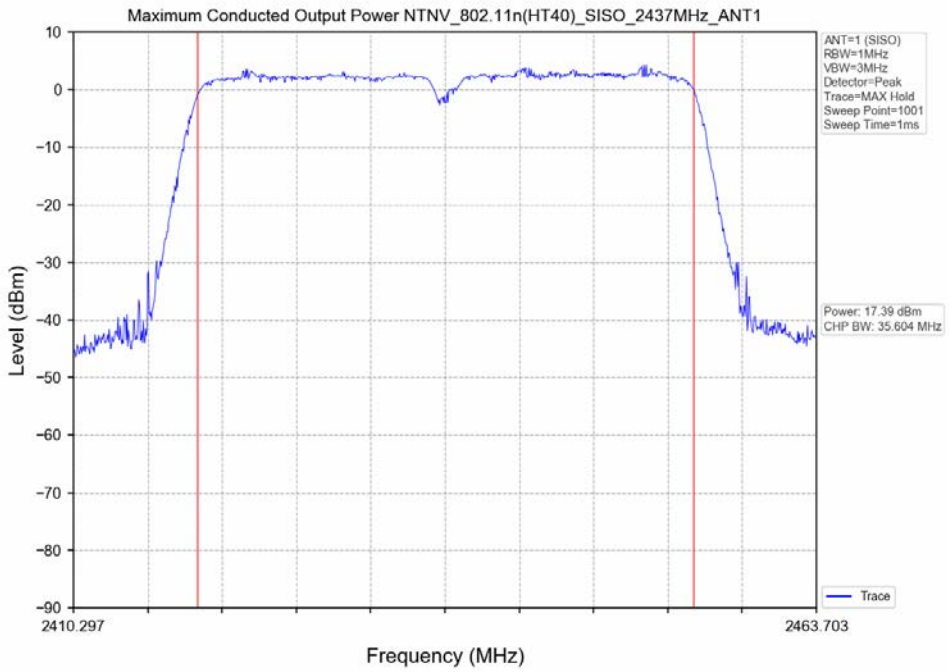


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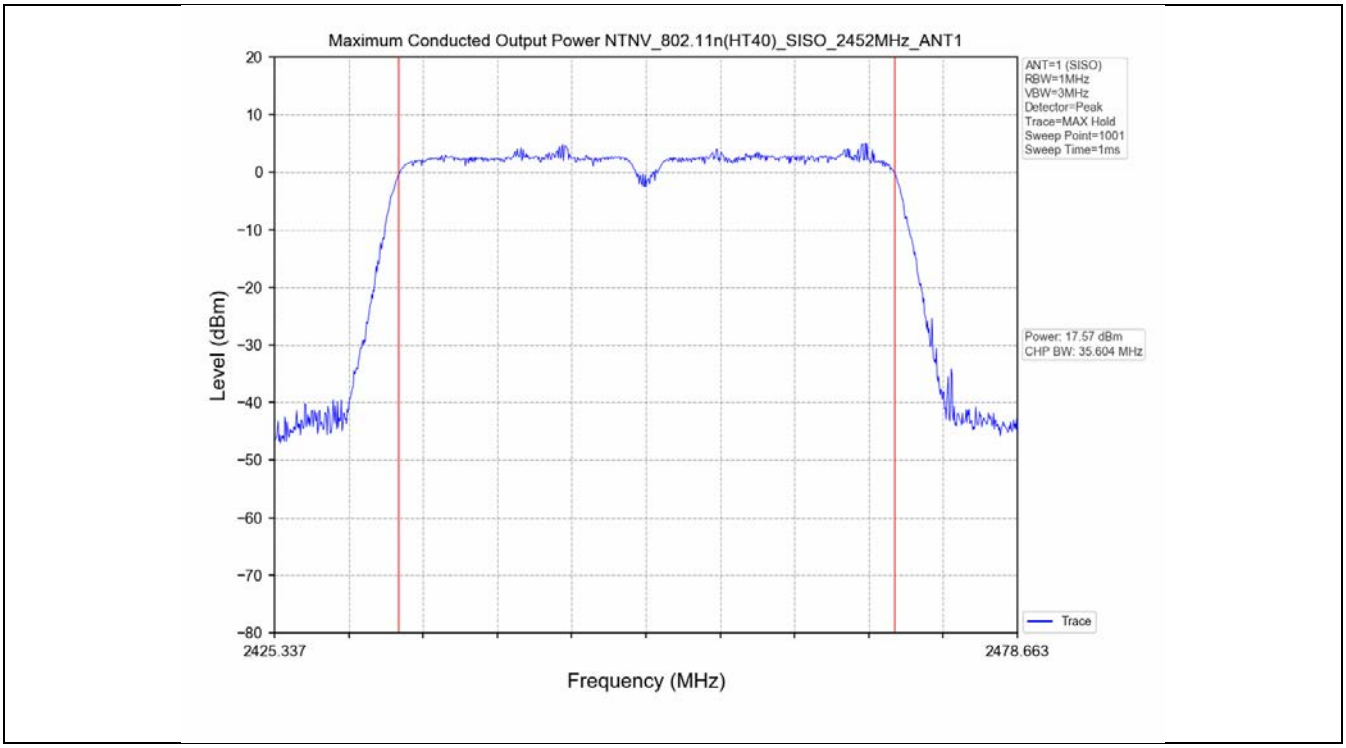


## 4. Maximum Power Spectral Density (PSD)

### 4.1 Test Result

| Test Mode | Frequency (MHz) | Tx Type | Maximum Power Spectral Density (dBm/3KHz) | Limits (dBm/3kHz) | Verdict |
|---|---|---|---|---|---|
| | | | Ant 1 | | |
| 802.11b | 2412 | SISO | -7.29 | ≤8 | PASS |
| | 2437 | SISO | -8.17 | ≤8 | PASS |
| | 2462 | SISO | -6.46 | ≤8 | PASS |
| 802.11g | 2412 | SISO | -15.08 | ≤8 | PASS |
| | 2437 | SISO | -15.42 | ≤8 | PASS |
| | 2462 | SISO | -14.85 | ≤8 | PASS |
| 802.11n(HT20) | 2412 | SISO | -15.49 | ≤8 | PASS |
| | 2437 | SISO | -14.44 | ≤8 | PASS |
| | 2462 | SISO | -15.53 | ≤8 | PASS |
| 802.11n(HT40) | 2422 | SISO | -17.91 | ≤8 | PASS |
| | 2437 | SISO | -17.26 | ≤8 | PASS |
| | 2452 | SISO | -17.53 | ≤8 | PASS |

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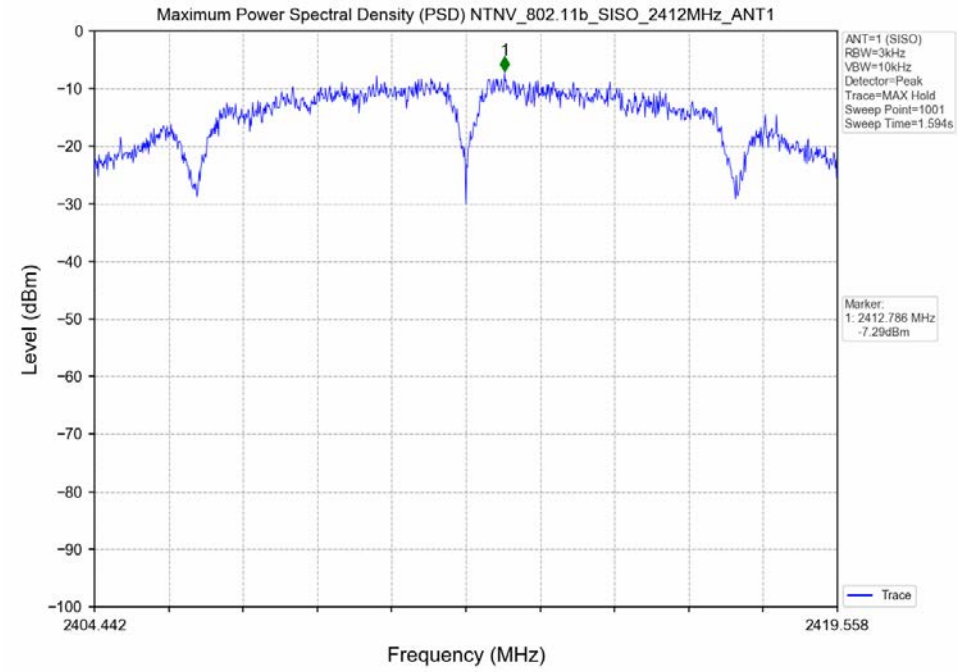
## 4.2 Test Graph

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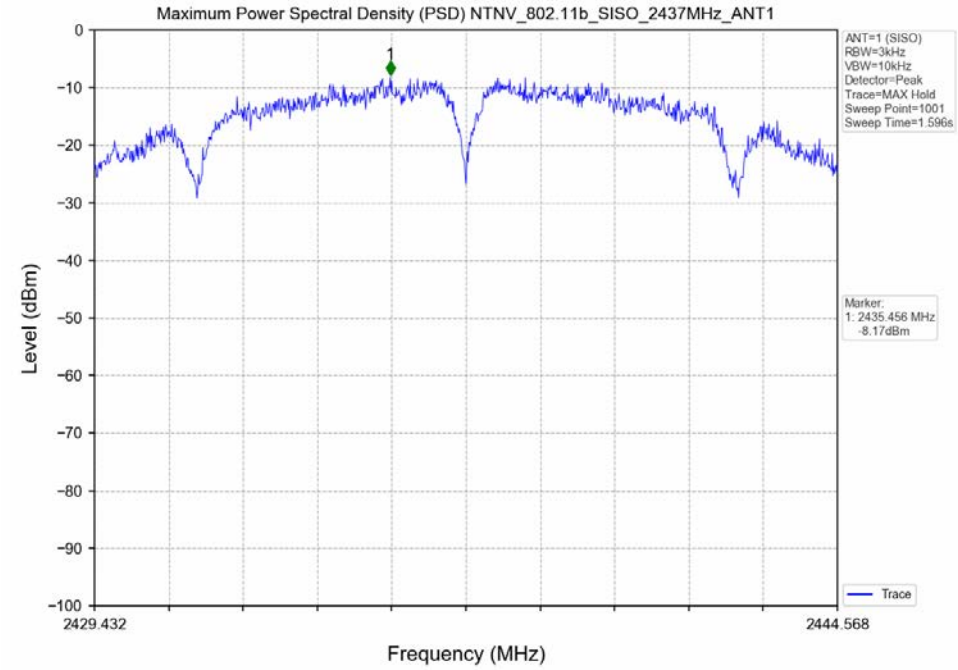


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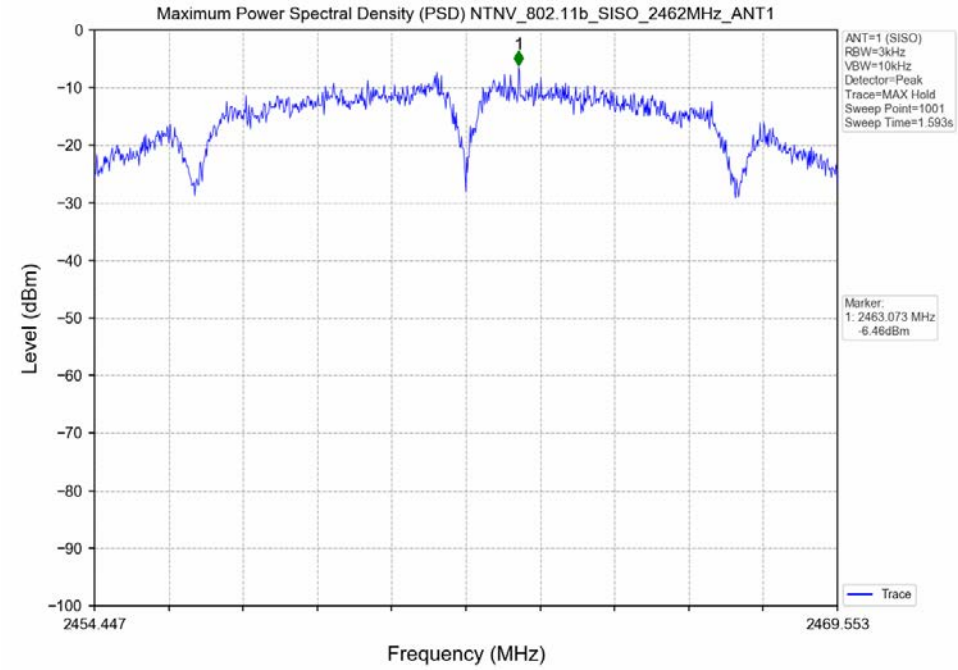


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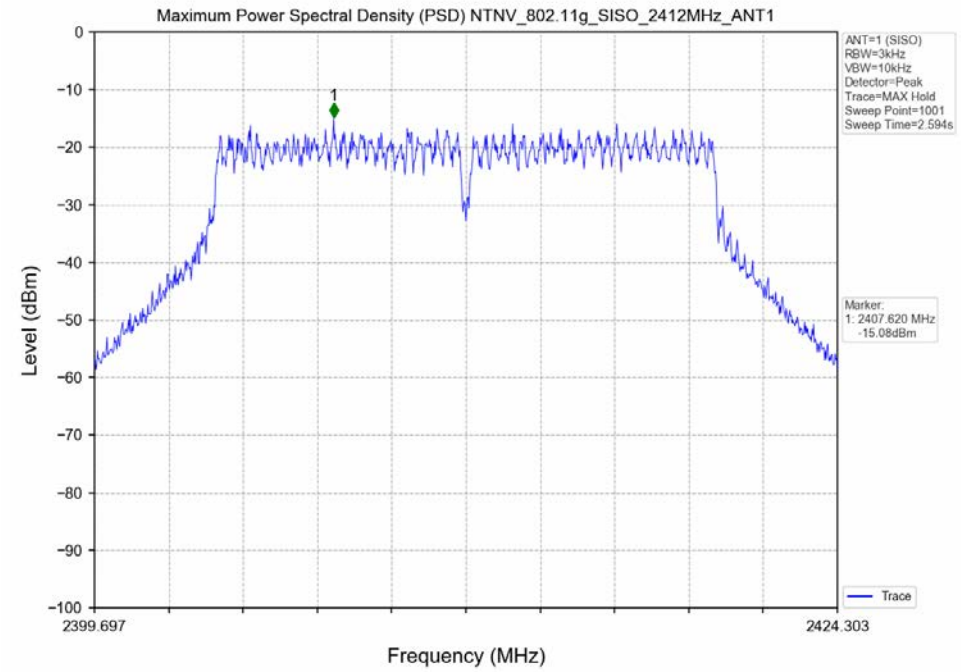


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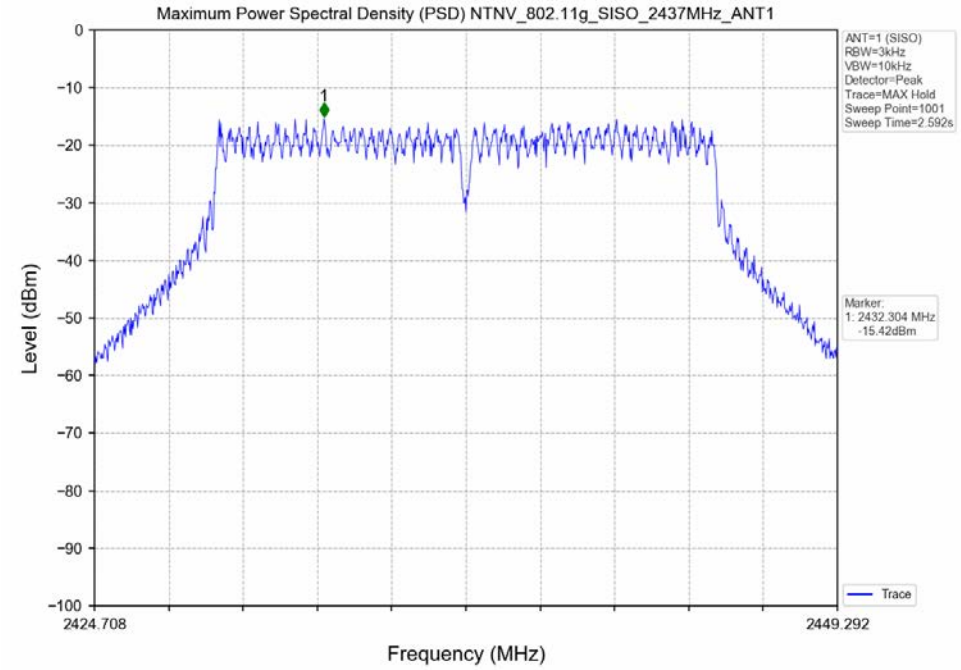


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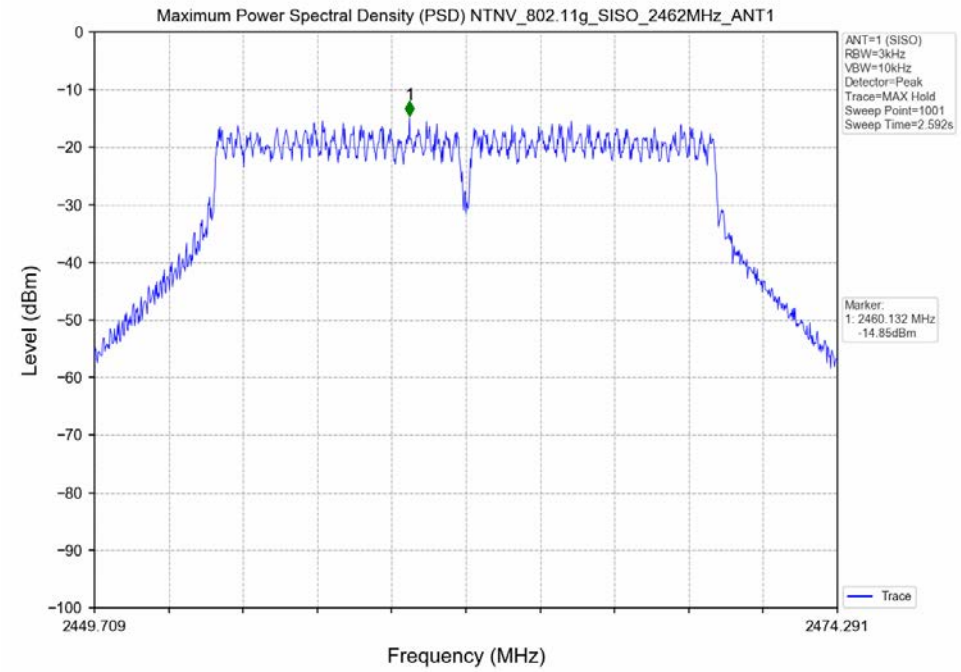


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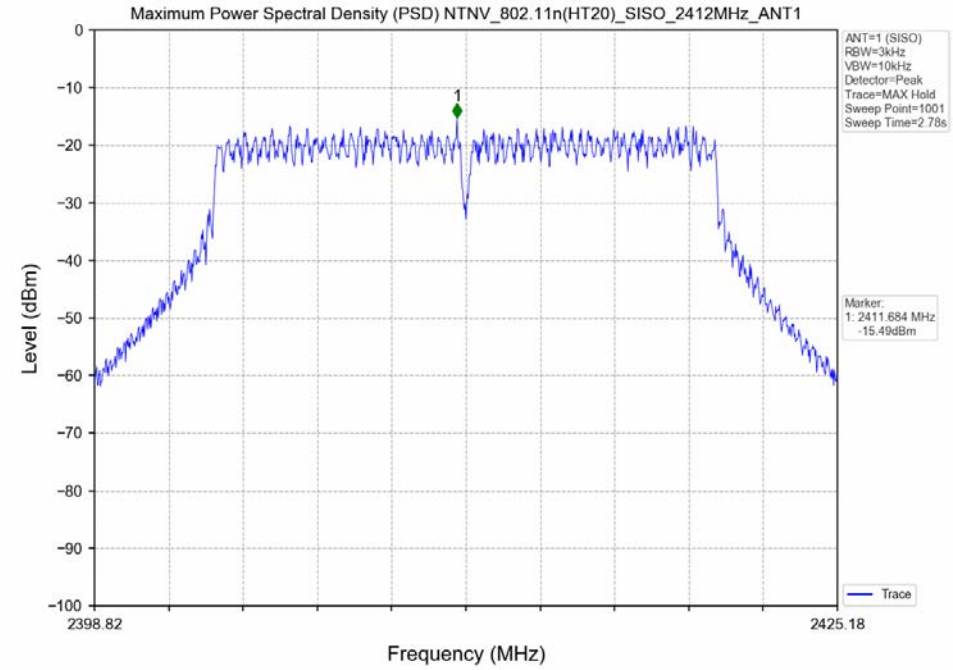


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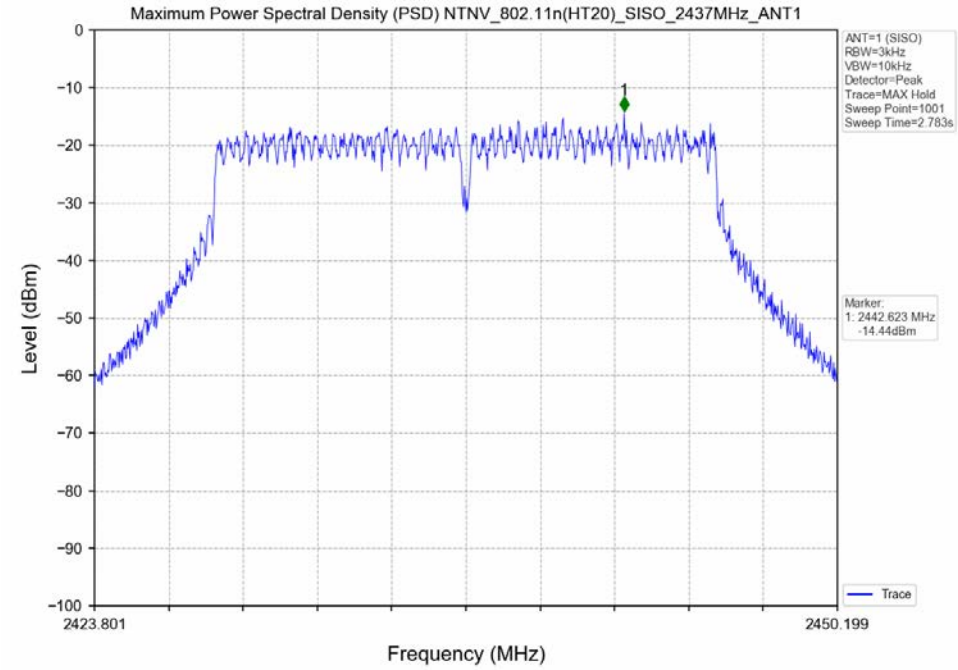


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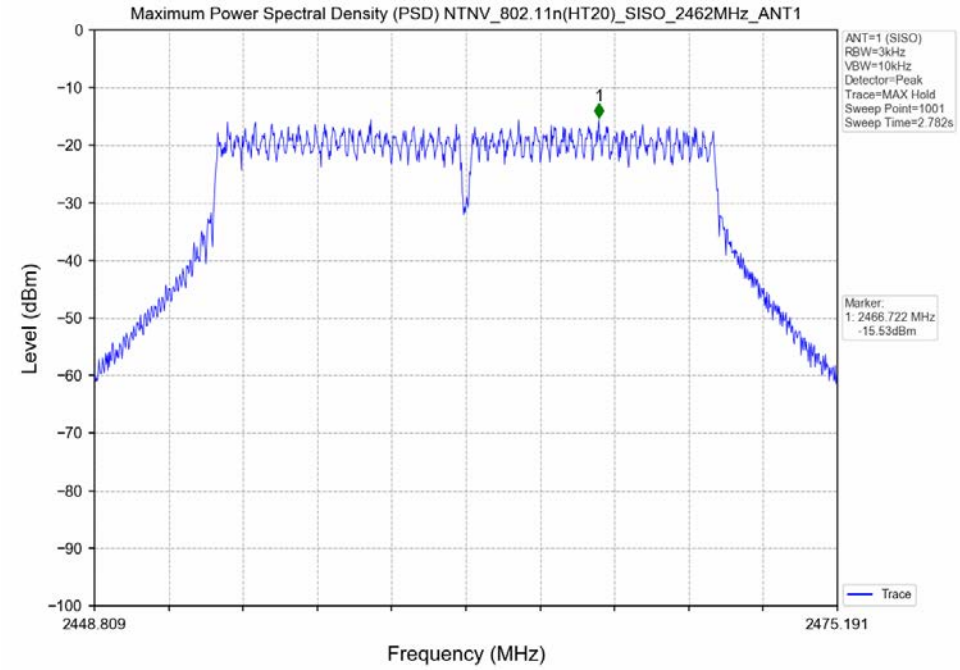


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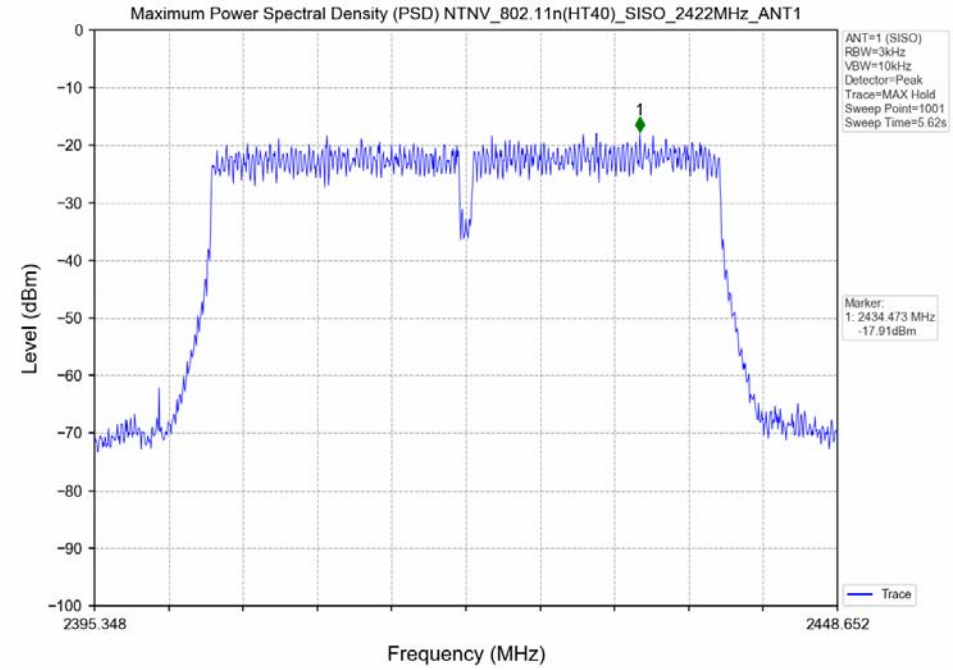


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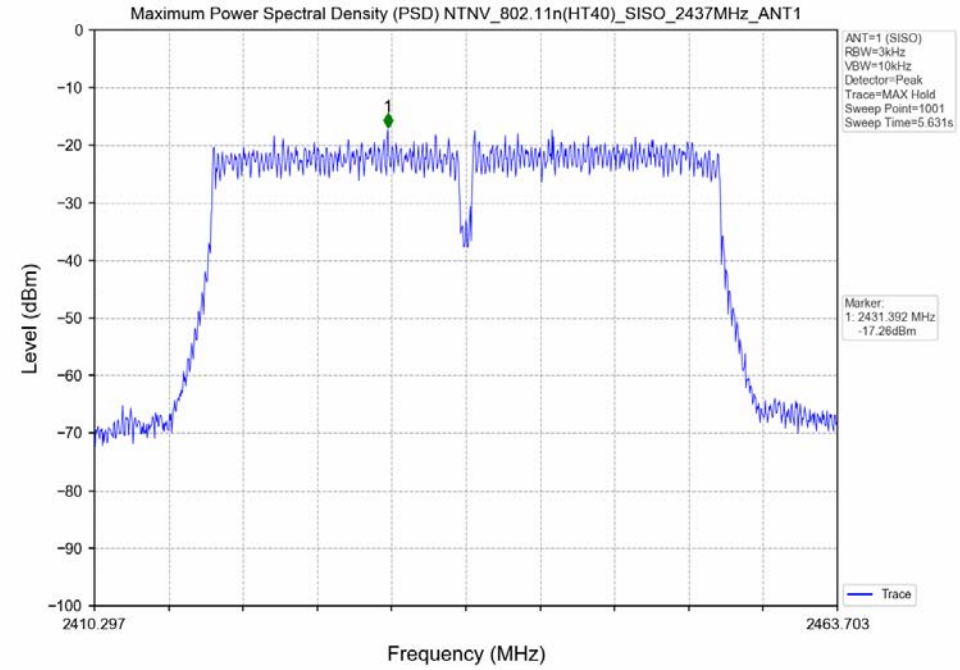


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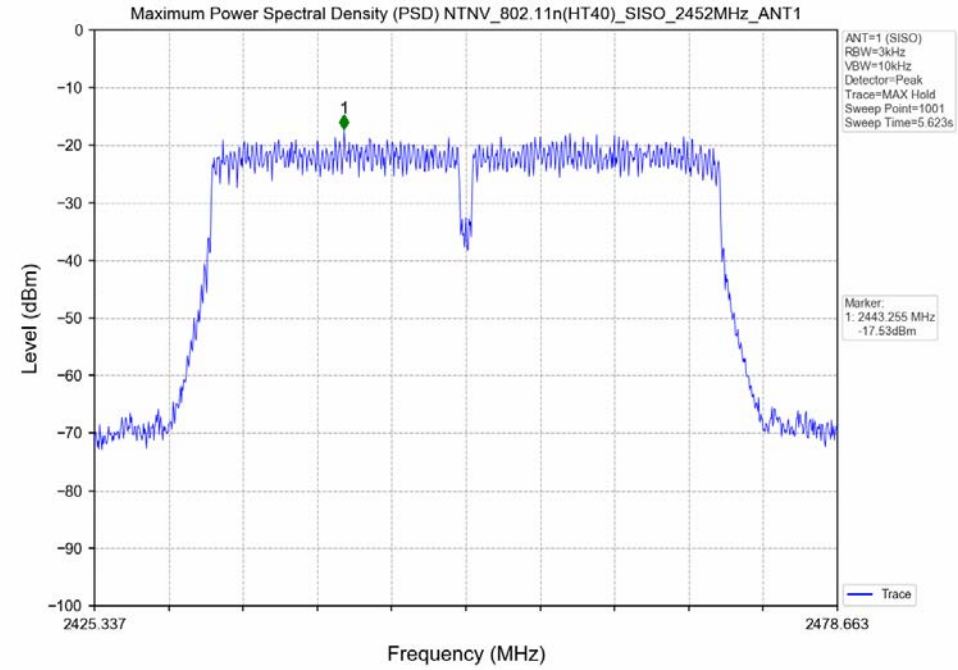


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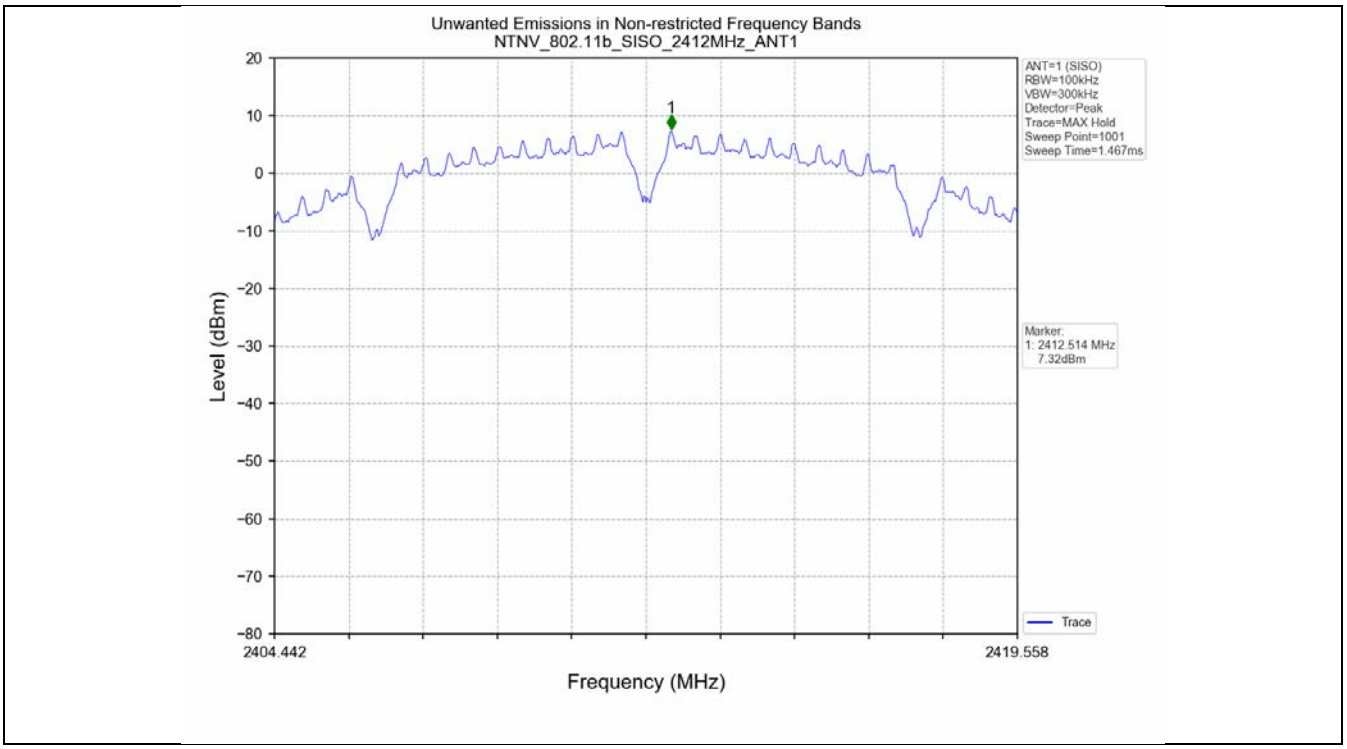
# 5. Unwanted Emissions in Non-restricted Frequency Bands

## 5.1 Test Result

| Test Mode | Frequency (MHz) | TX Type | ANT No. | Spurious Conducted Emission (dBm) | Limits (dBm) | Verdict |
|---|---|---|---|---|---|---|
| 802.11b | 2412 | SISO | 1 | Refer to test graph | -12.68 | PASS |
| | 2437 | SISO | 1 | Refer to test graph | -12.68 | PASS |
| | 2462 | SISO | 1 | Refer to test graph | -12.68 | PASS |
| 802.11g | 2412 | SISO | 1 | Refer to test graph | -20.84 | PASS |
| | 2437 | SISO | 1 | Refer to test graph | -20.84 | PASS |
| | 2462 | SISO | 1 | Refer to test graph | -20.84 | PASS |
| 802.11n(HT20) | 2412 | SISO | 1 | Refer to test graph | -20.76 | PASS |
| | 2437 | SISO | 1 | Refer to test graph | -20.76 | PASS |
| | 2462 | SISO | 1 | Refer to test graph | -20.76 | PASS |
| 802.11n(HT40) | 2422 | SISO | 1 | Refer to test graph | -23.20 | PASS |
| | 2437 | SISO | 1 | Refer to test graph | -23.20 | PASS |
| | 2452 | SISO | 1 | Refer to test graph | -23.20 | PASS |

## 5.2 Test Graph

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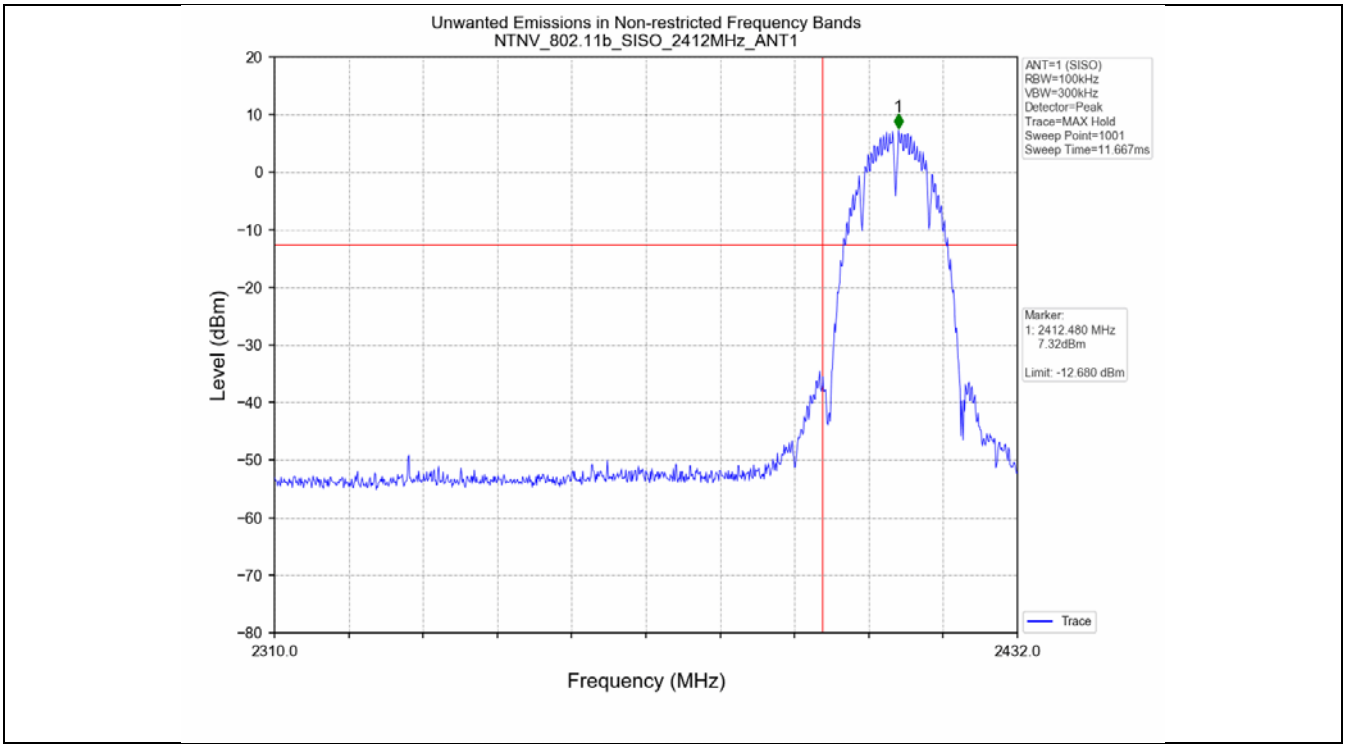


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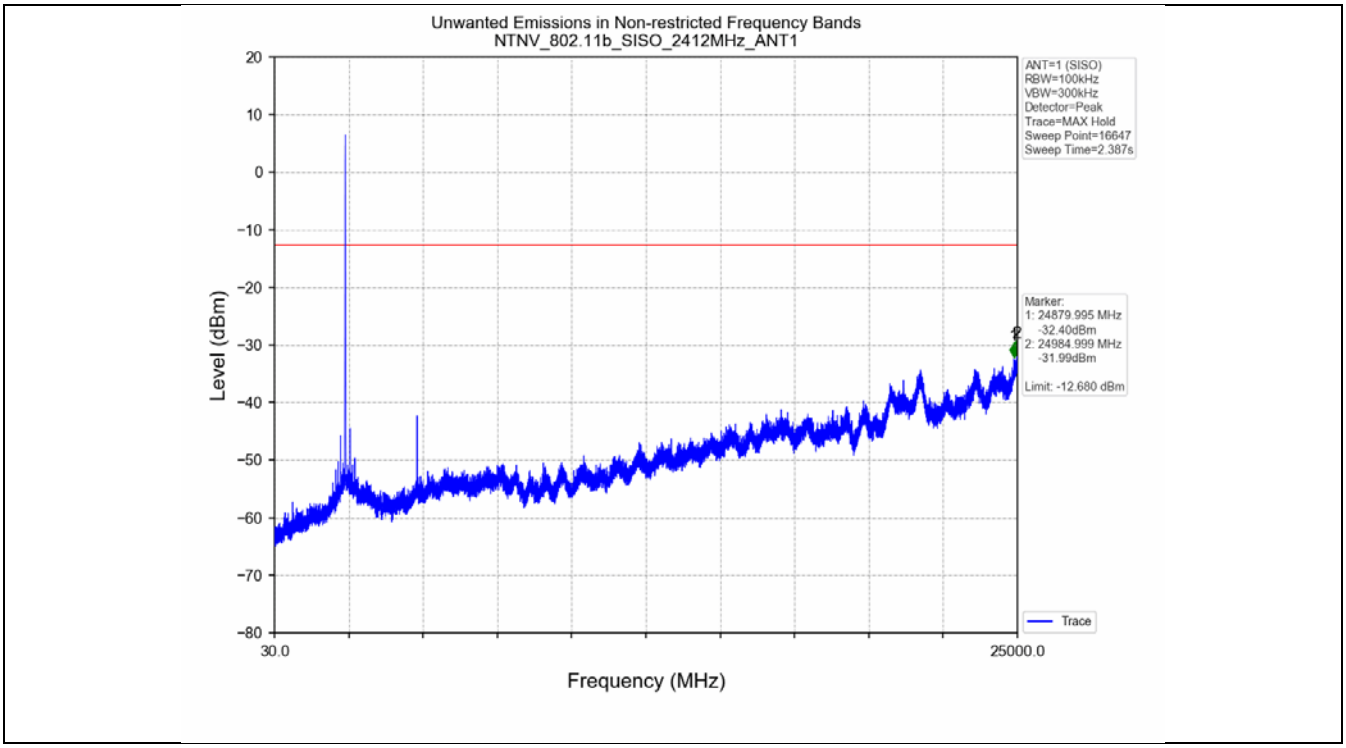


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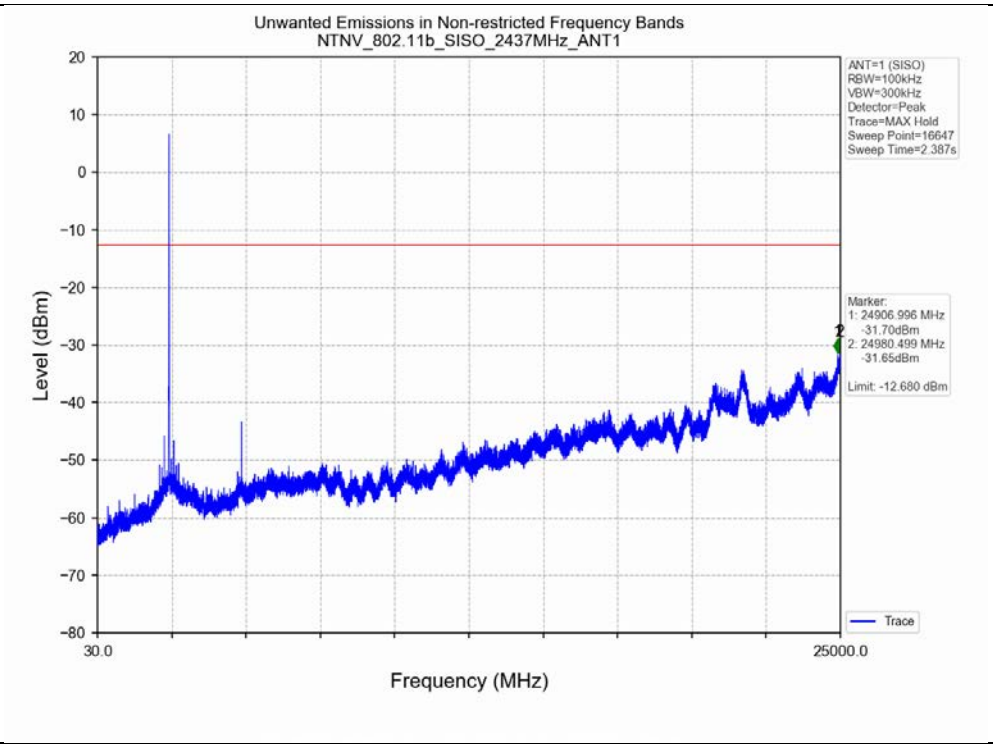


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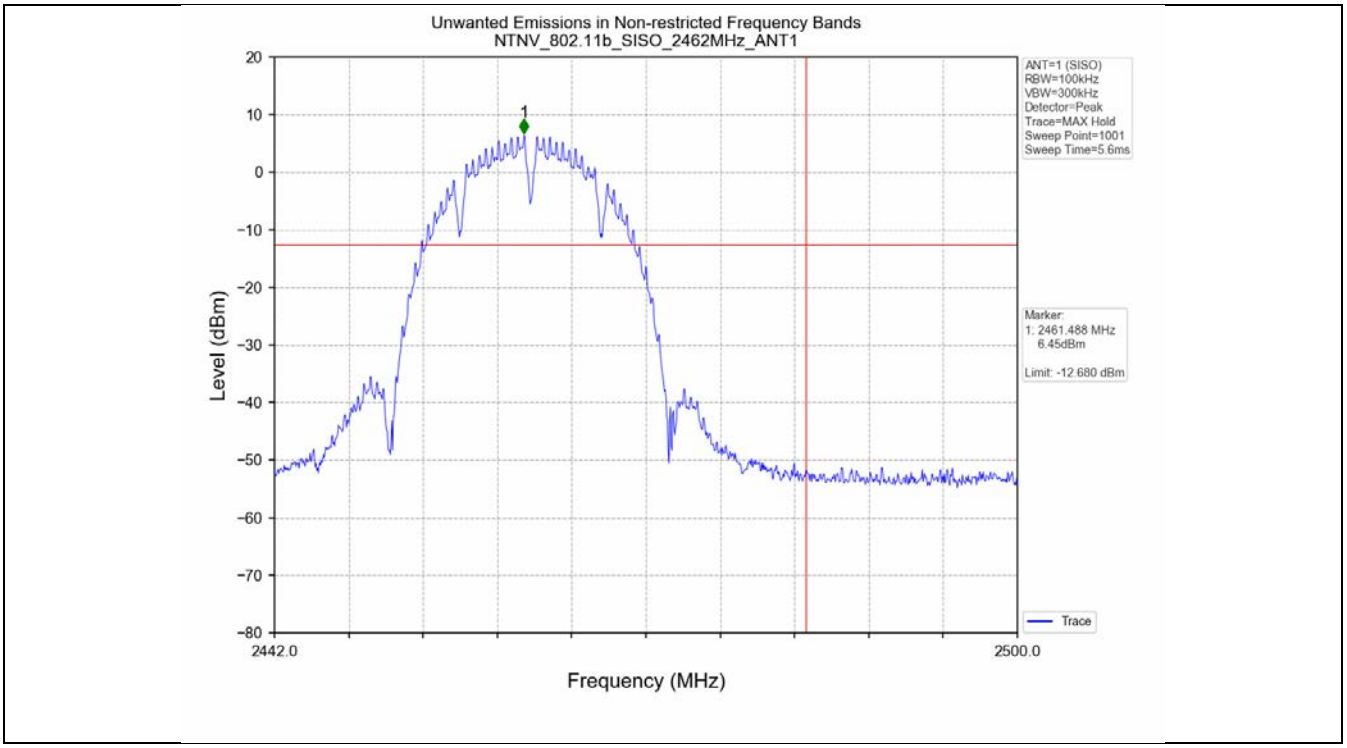


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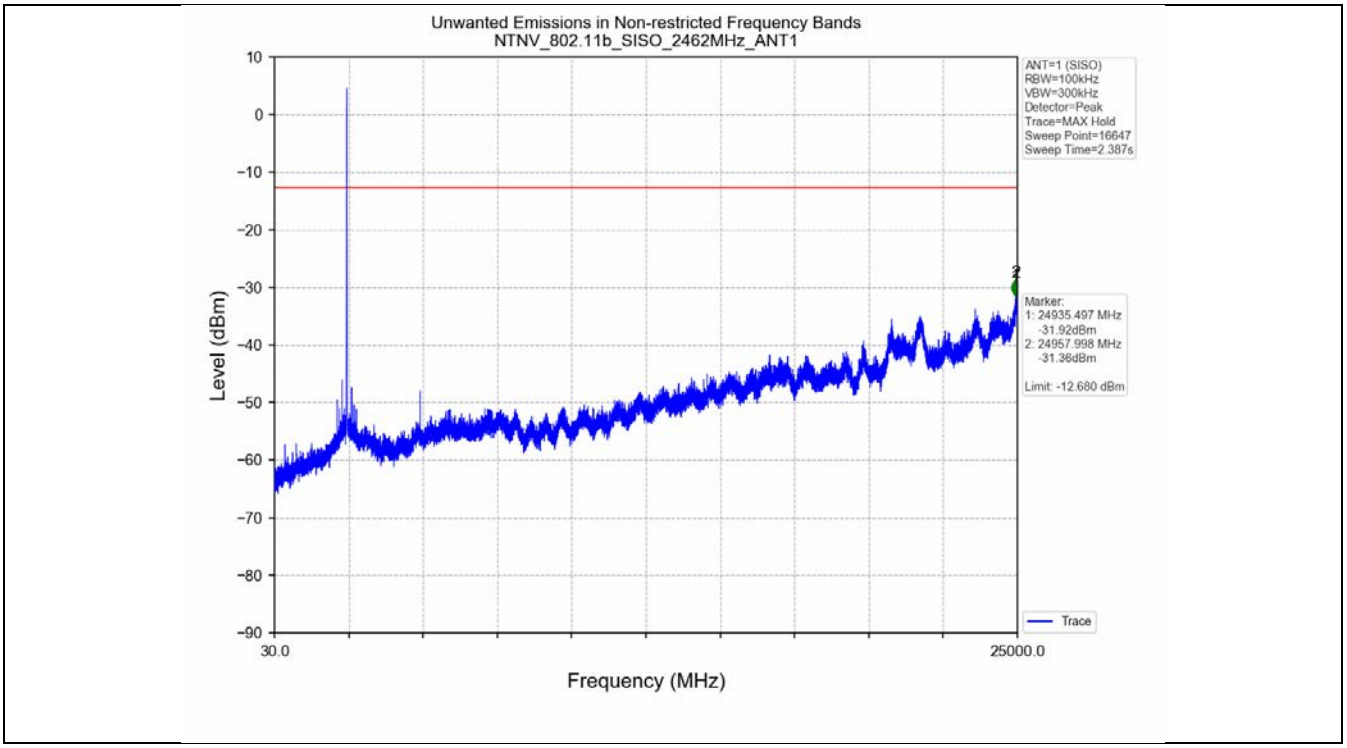


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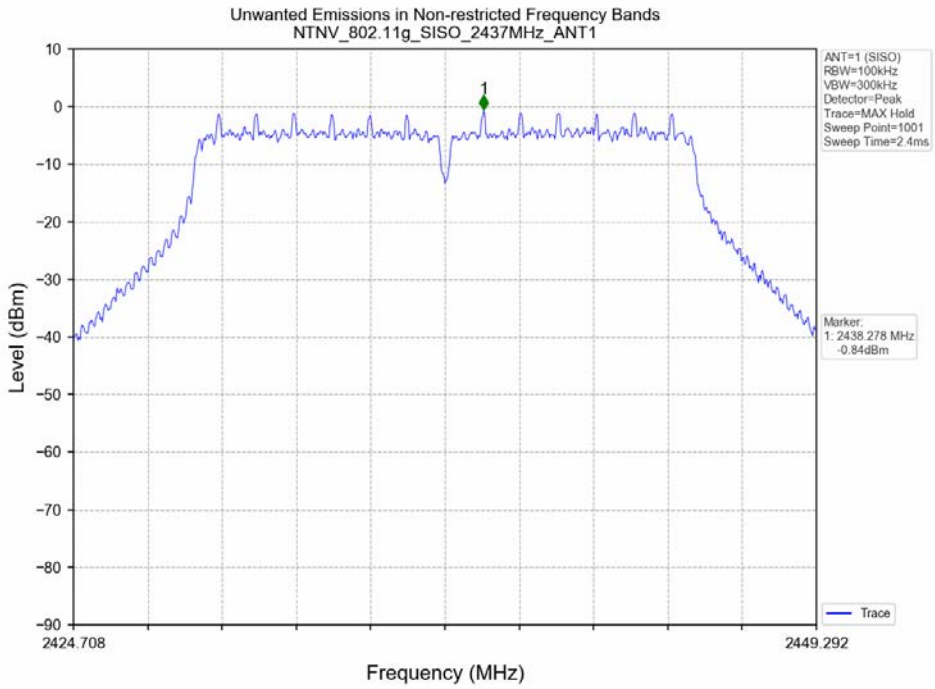


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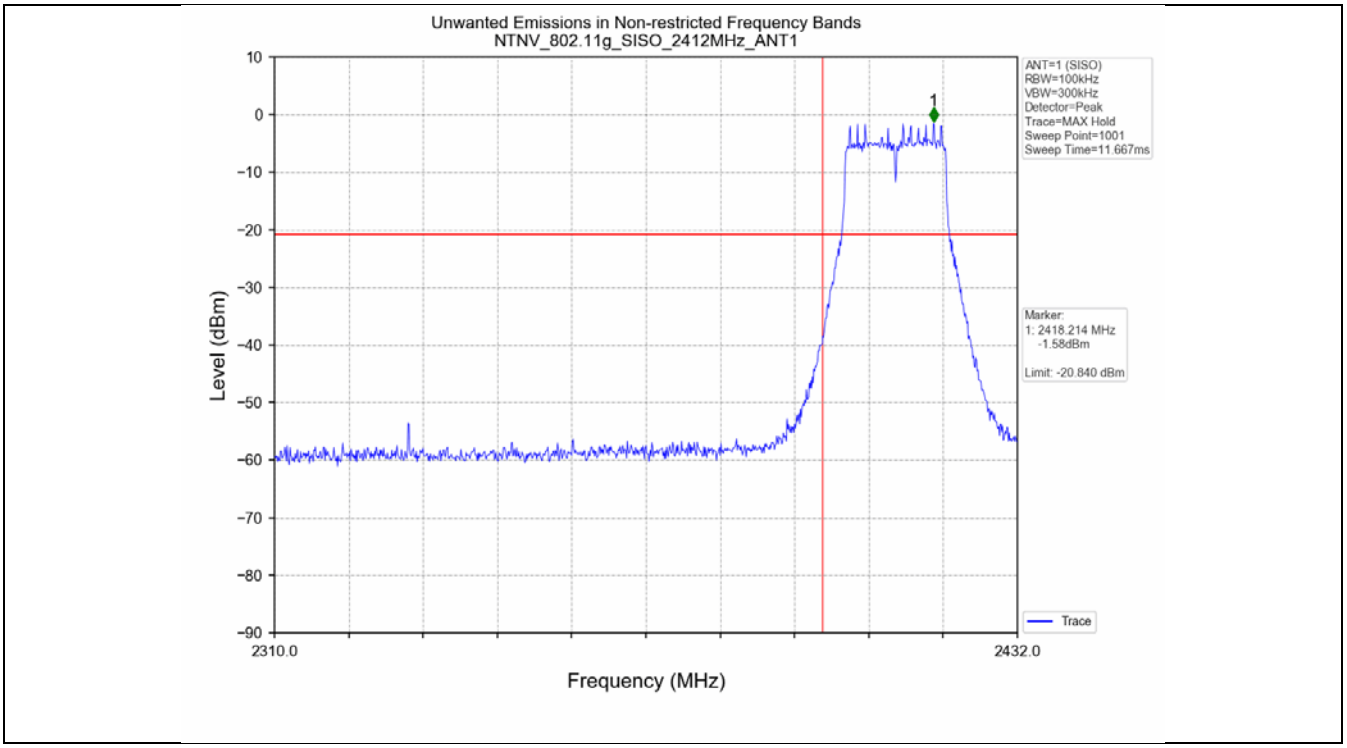


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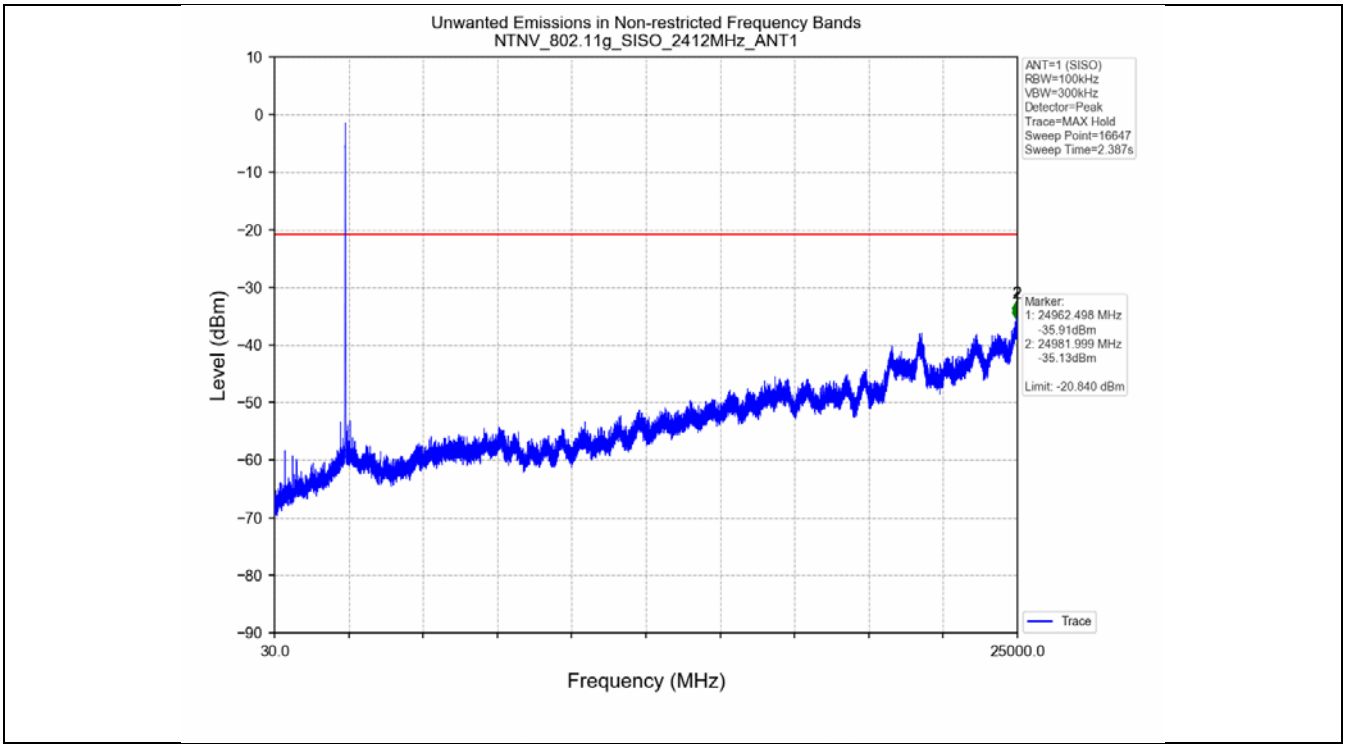


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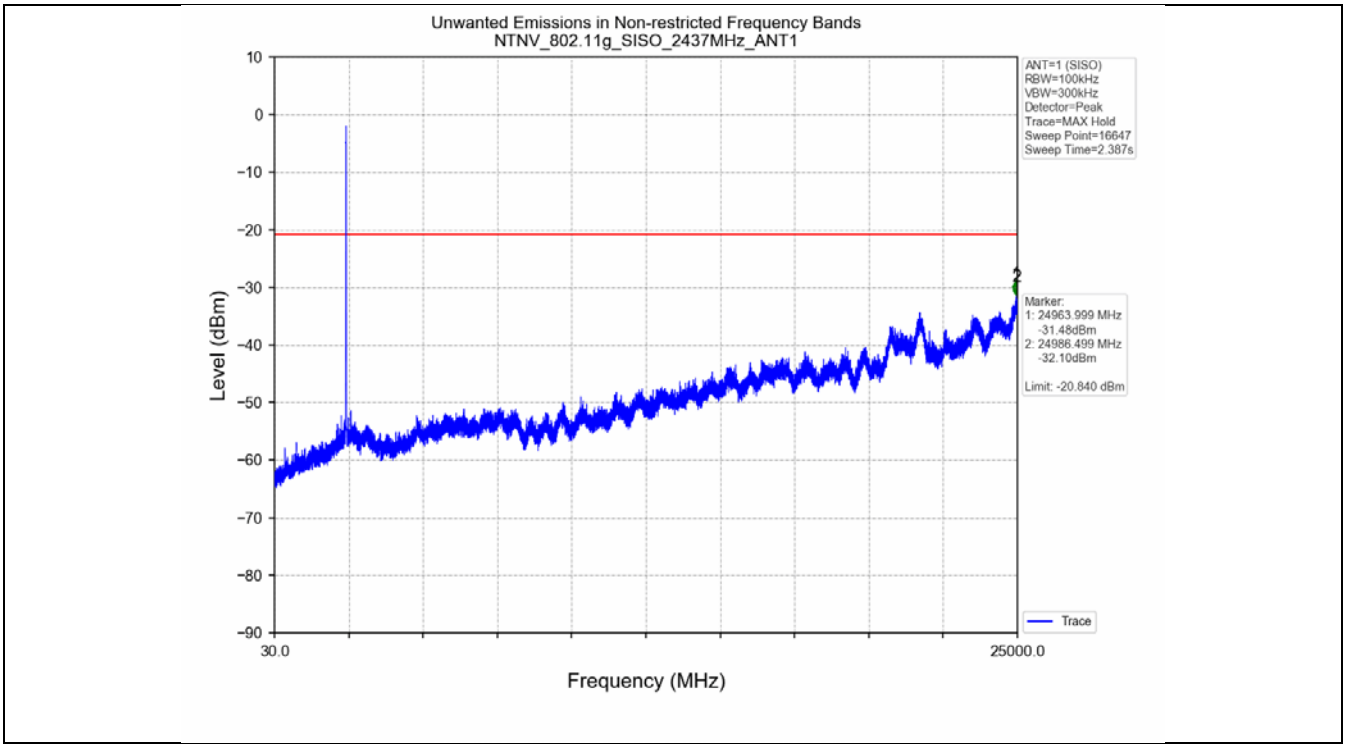


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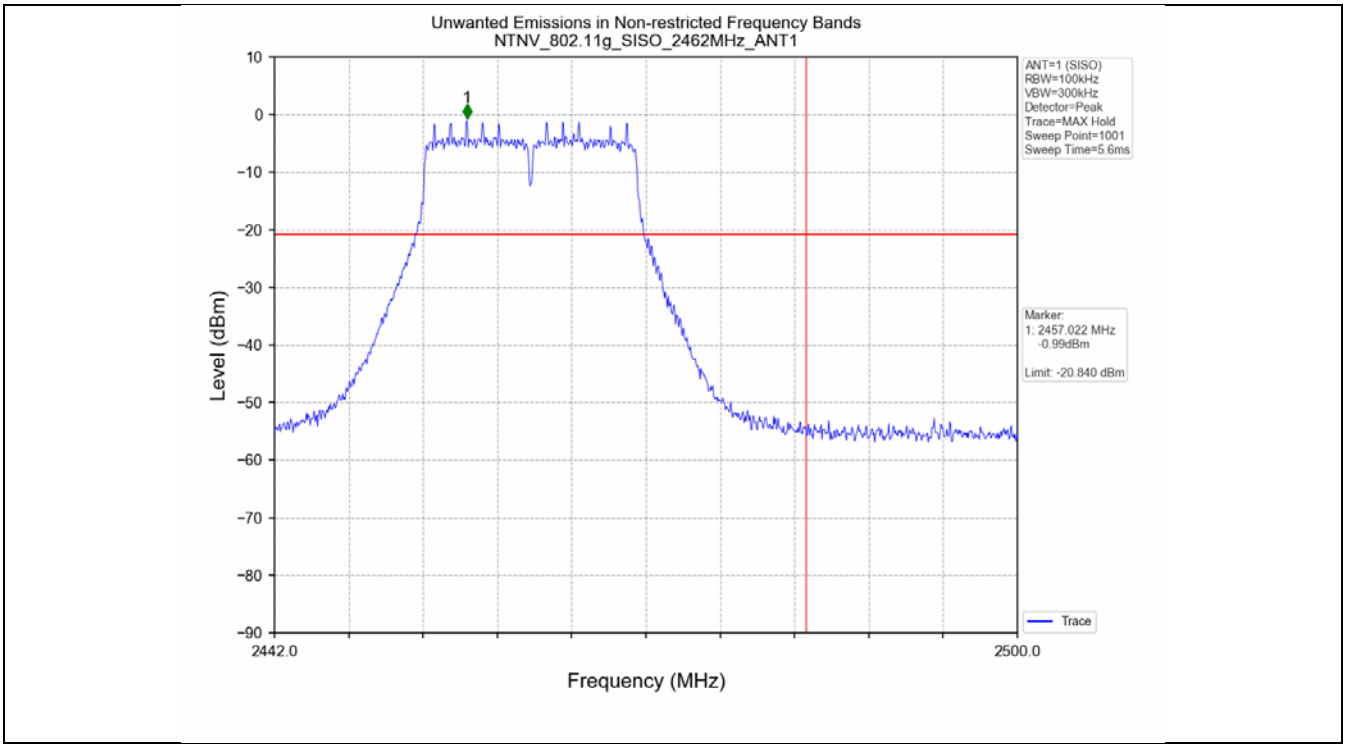


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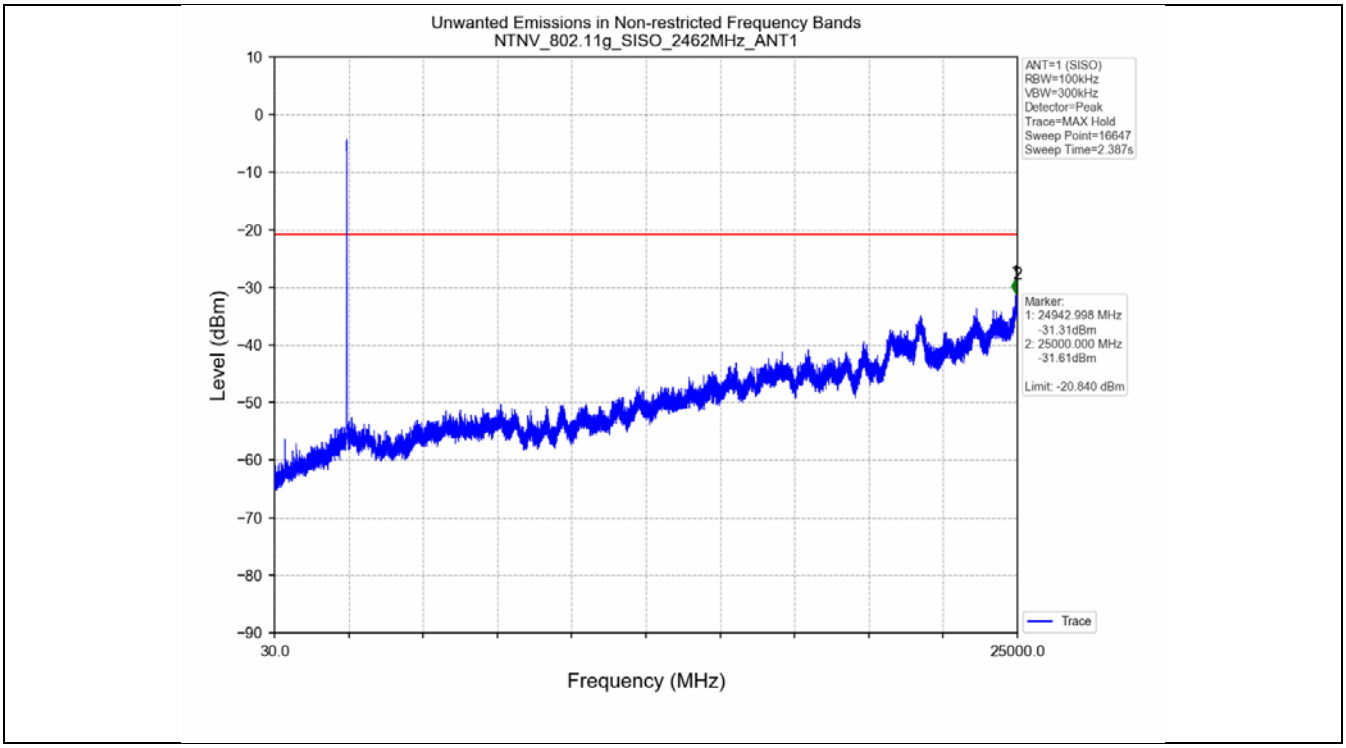


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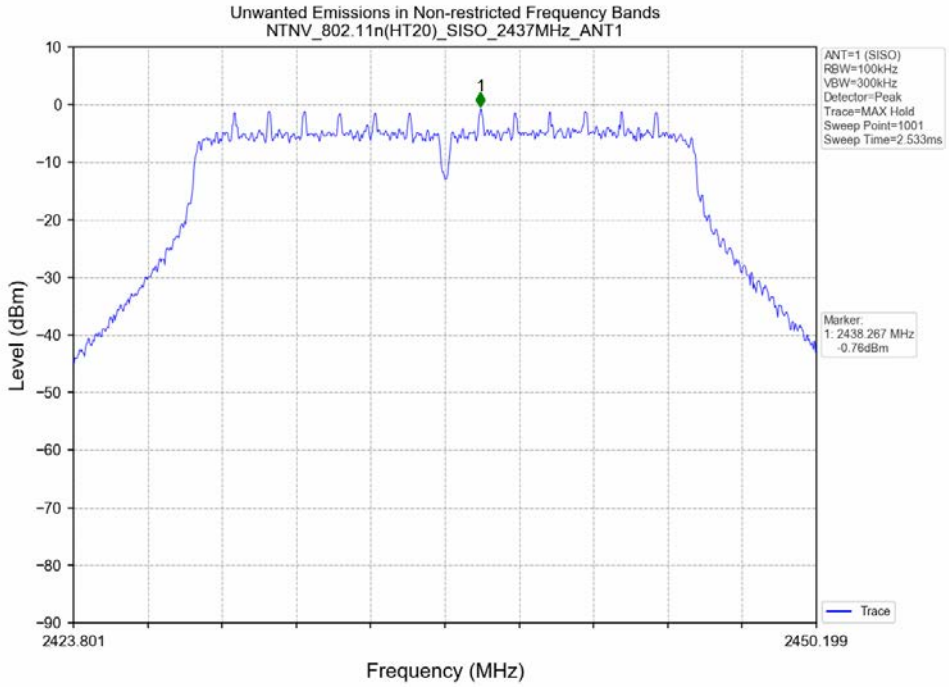


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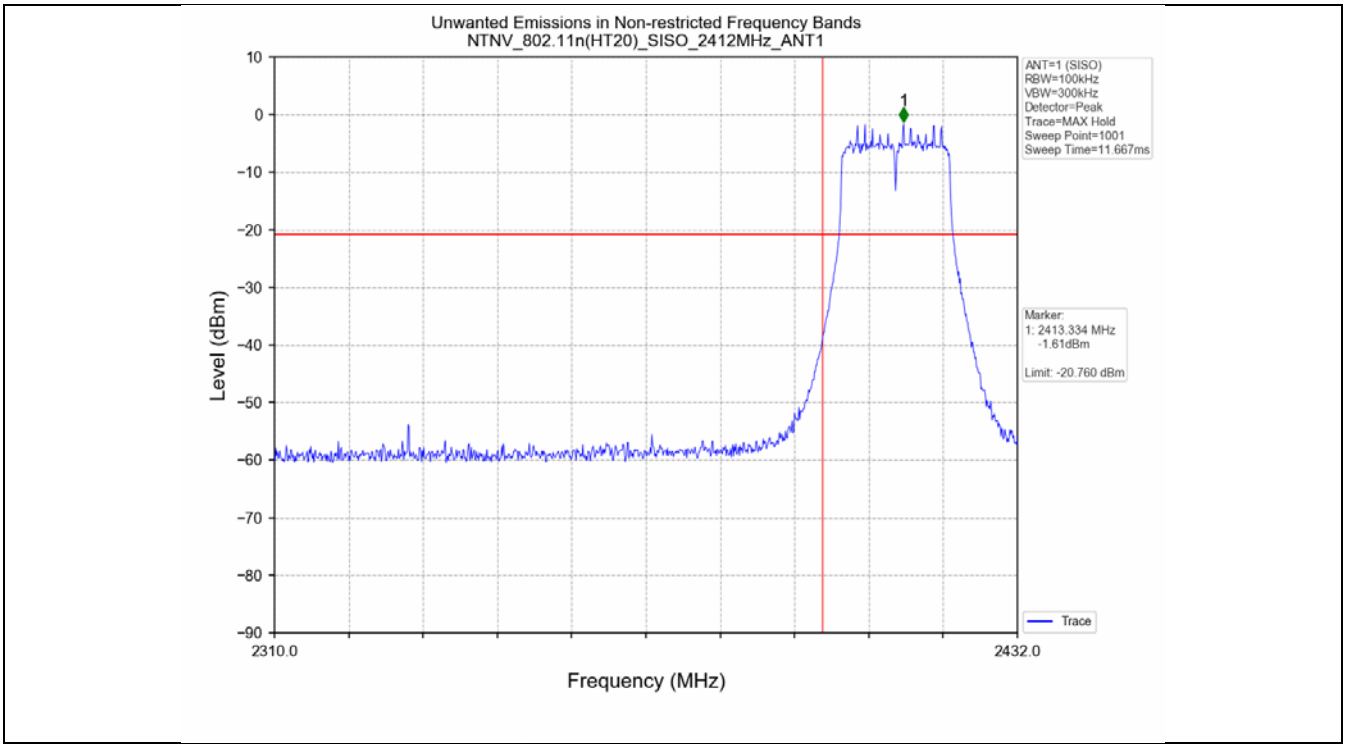


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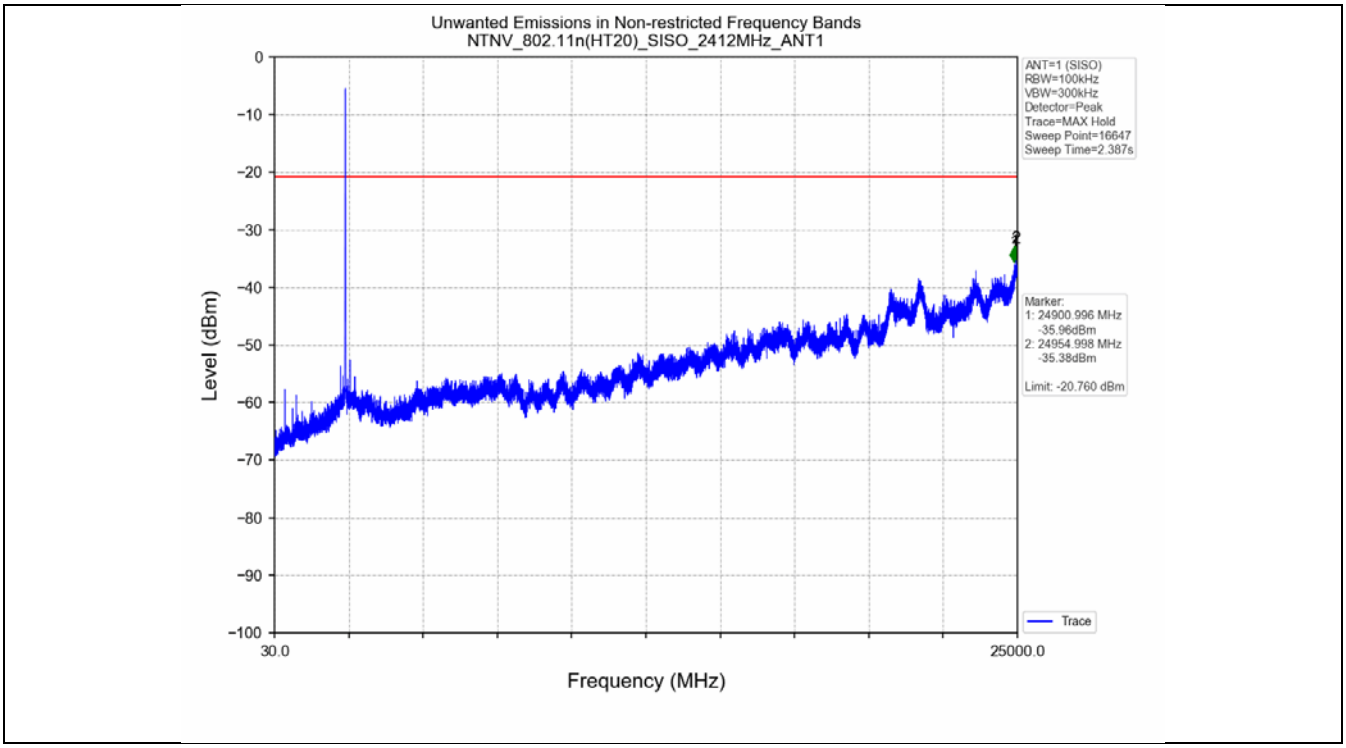


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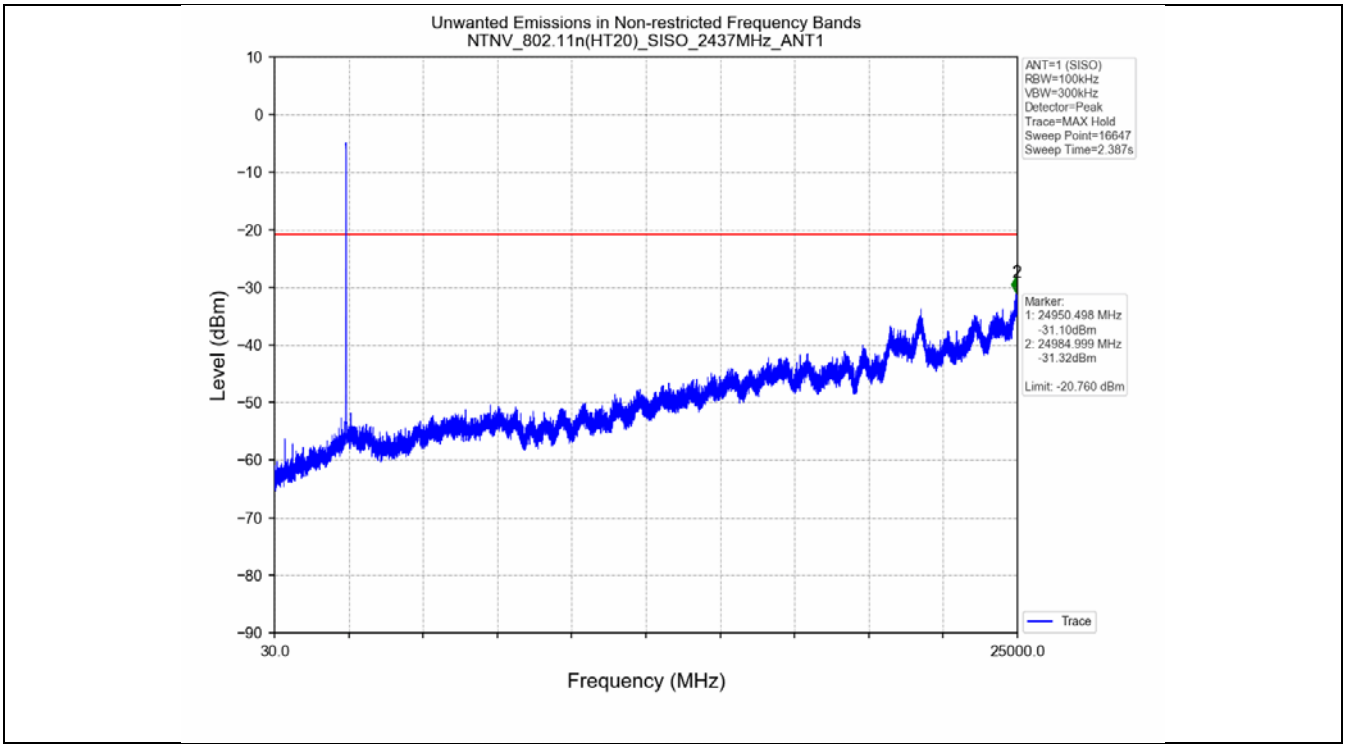


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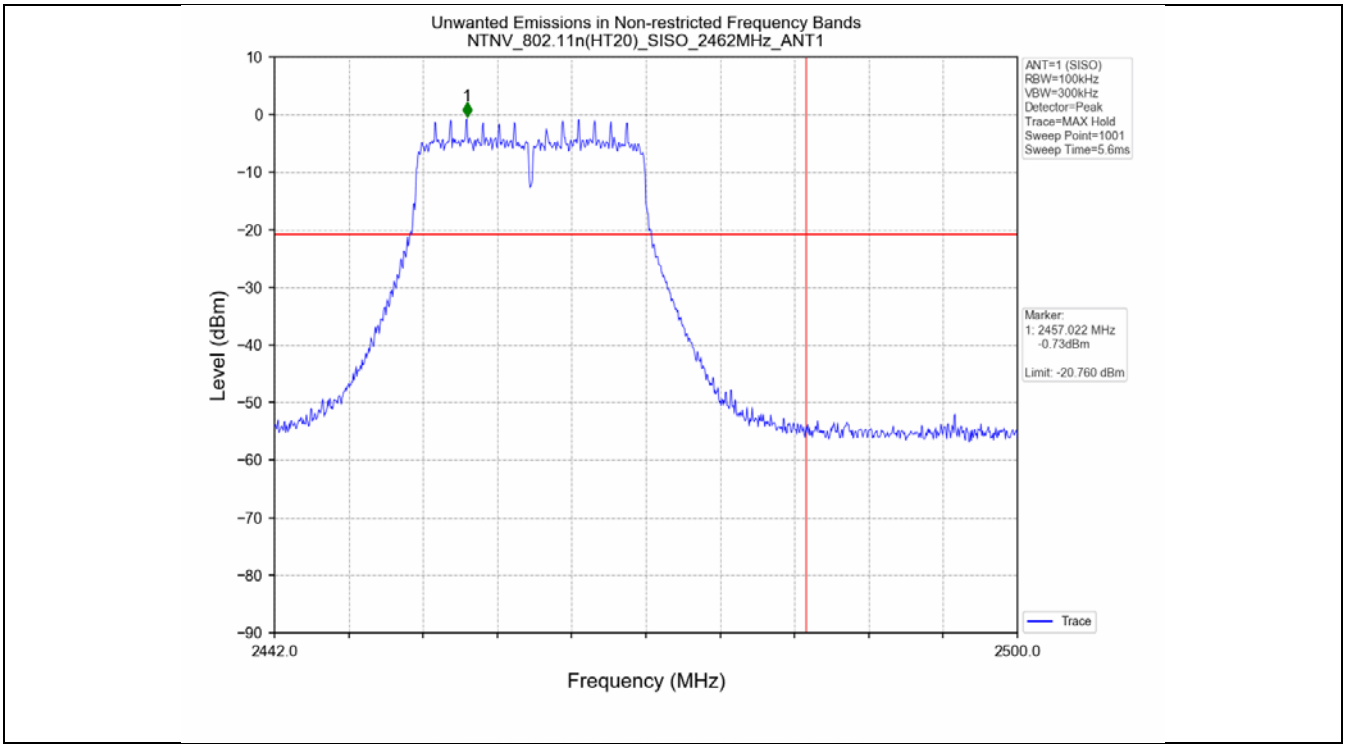


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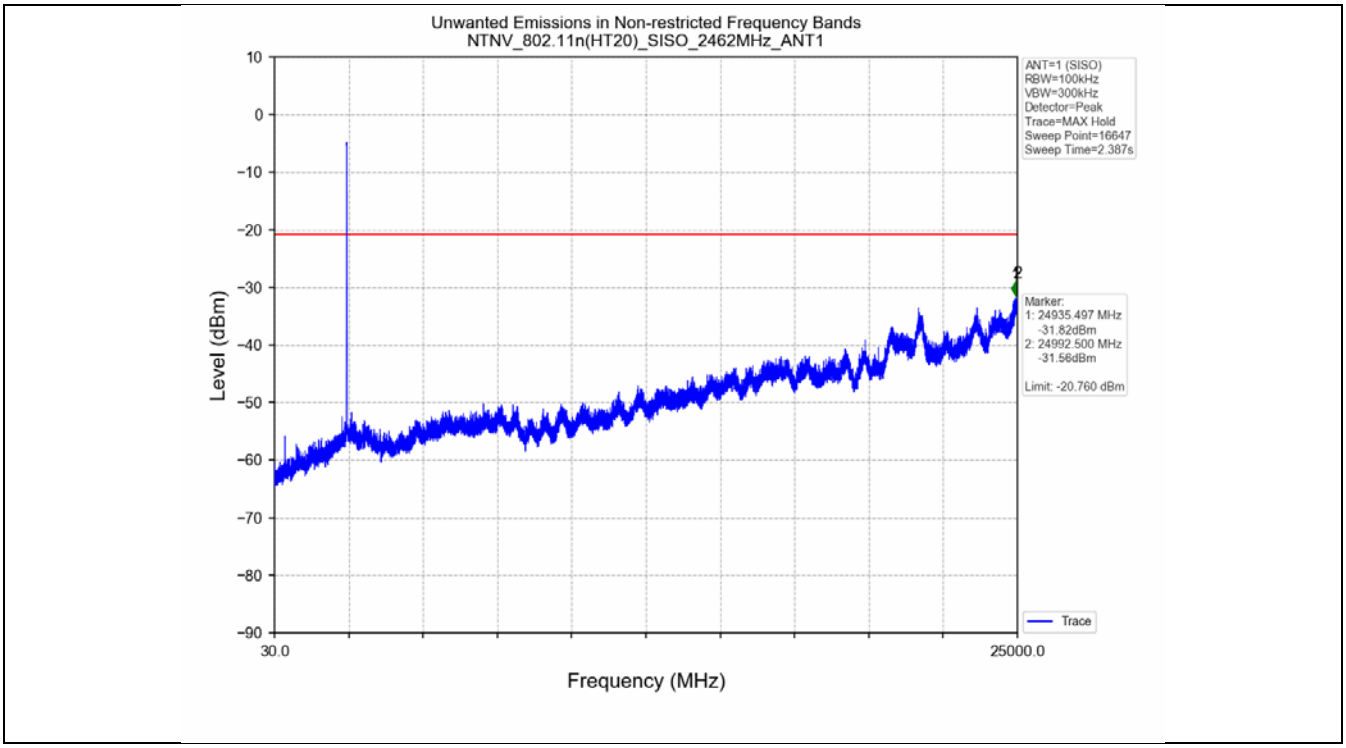


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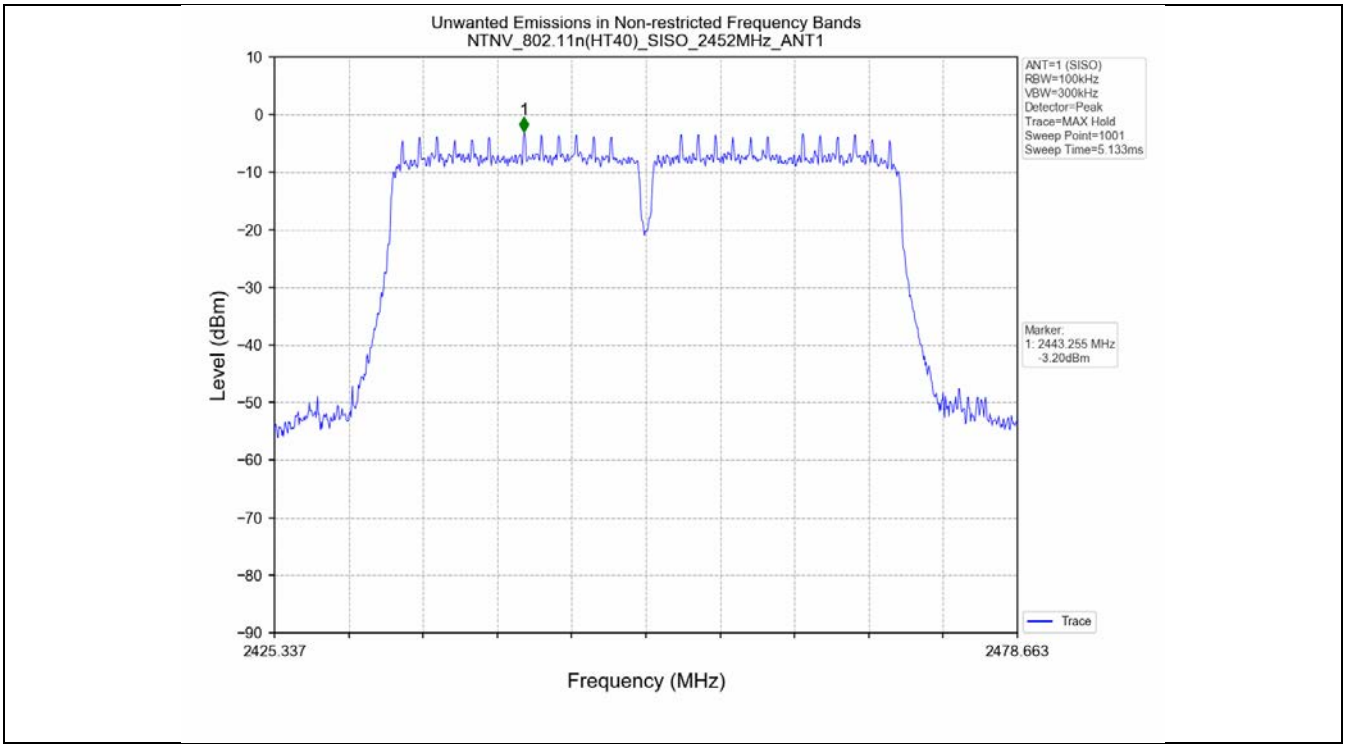


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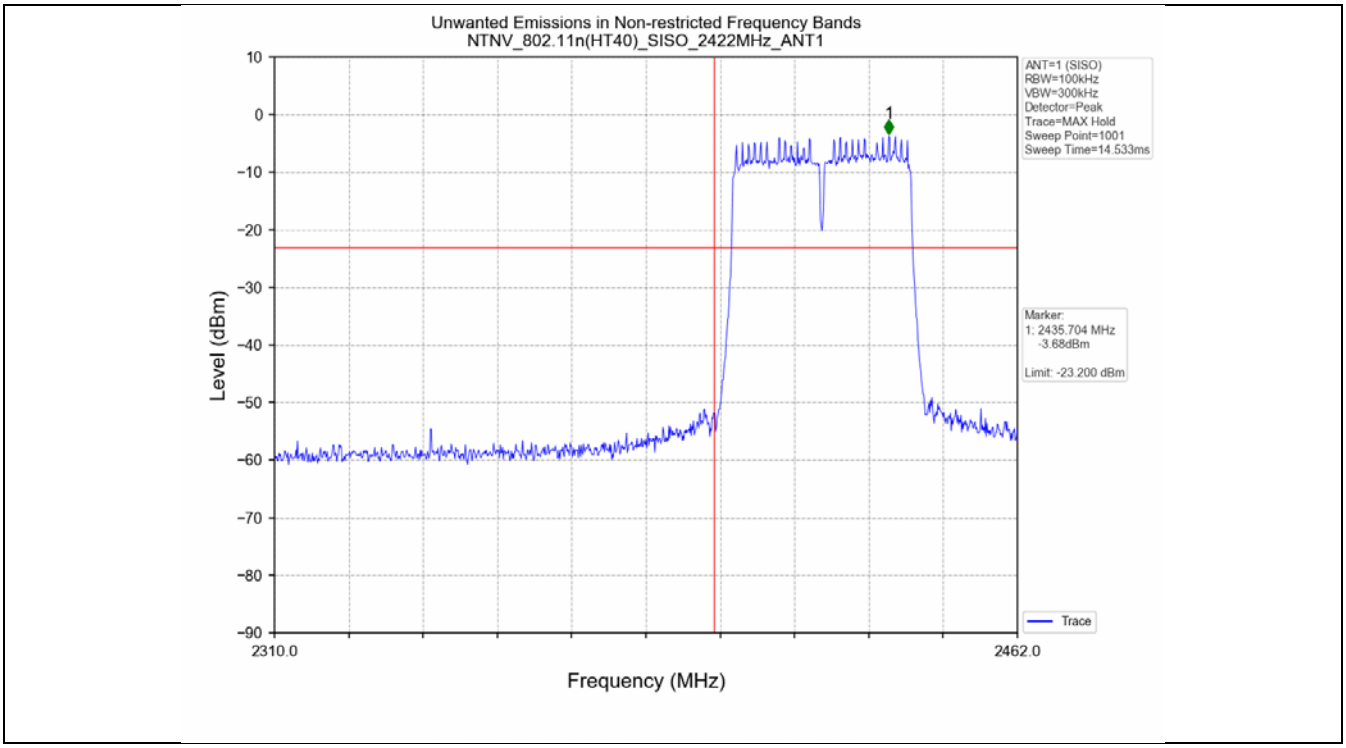


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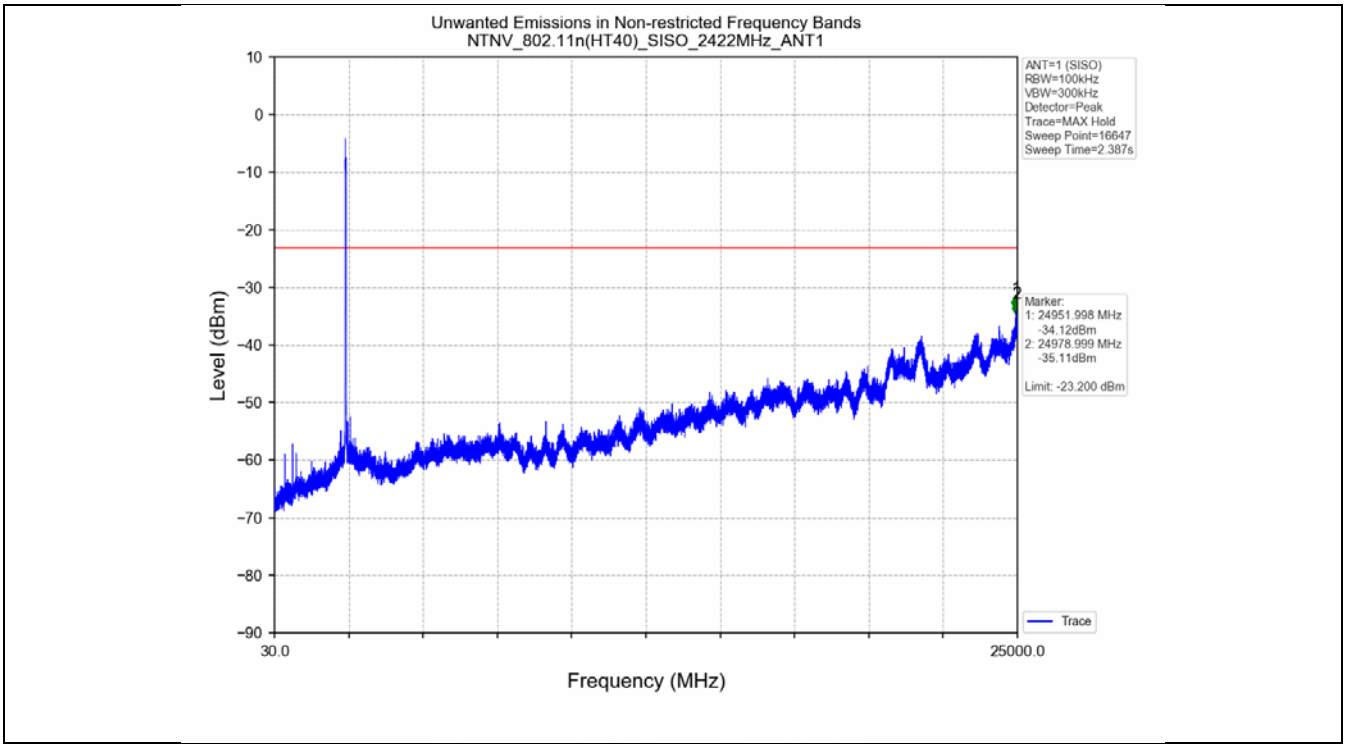


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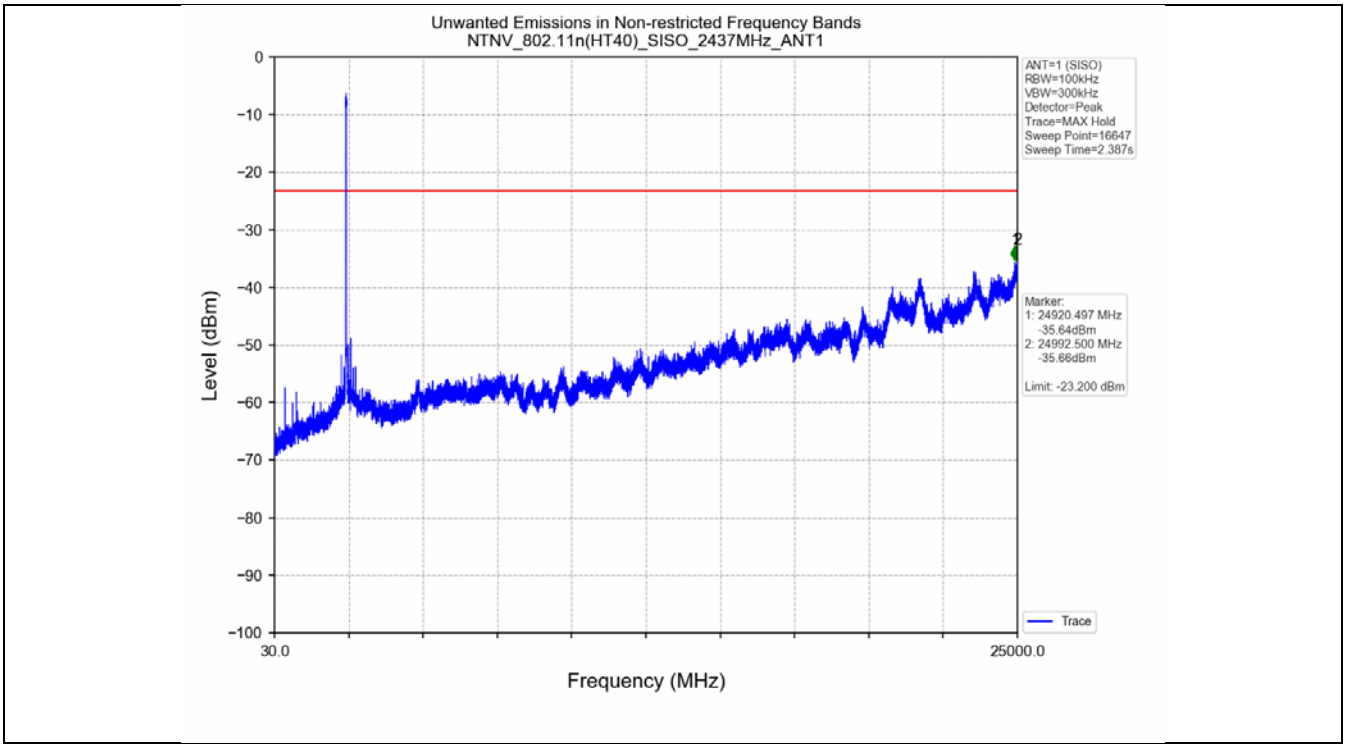


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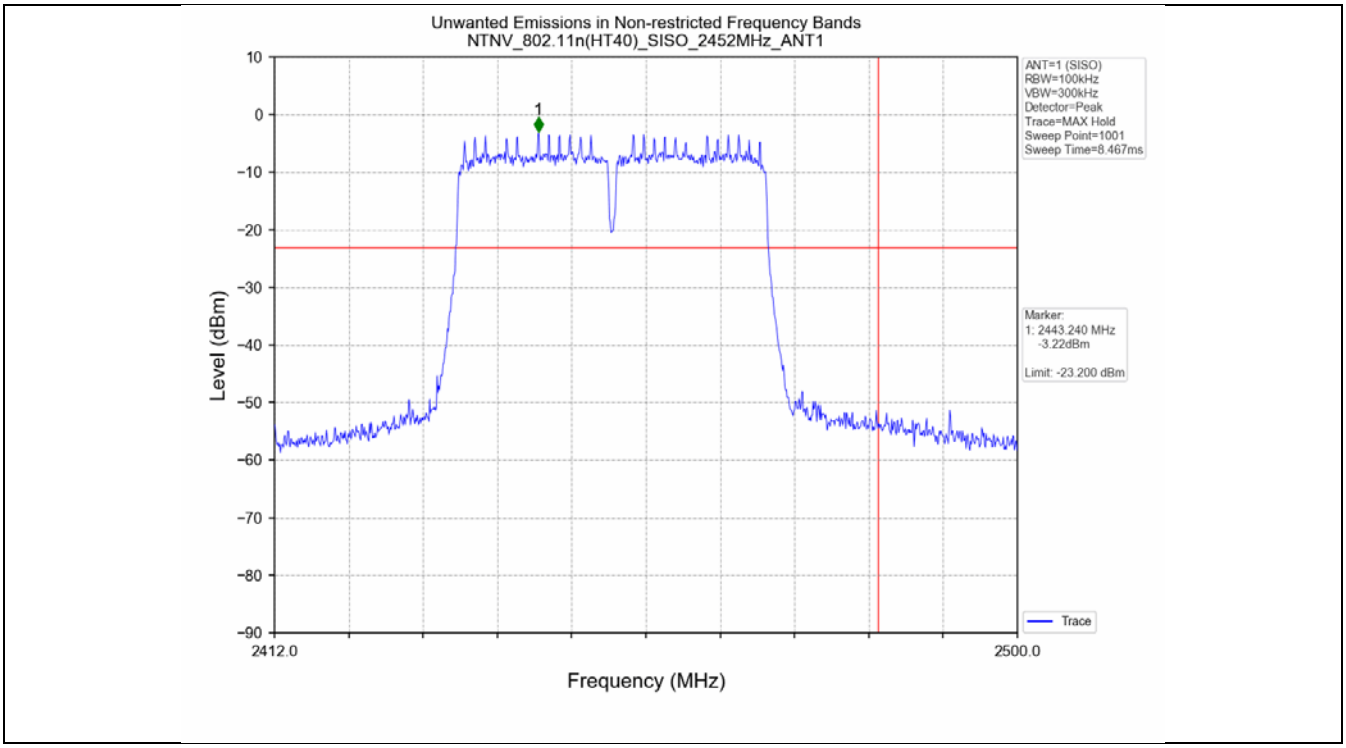


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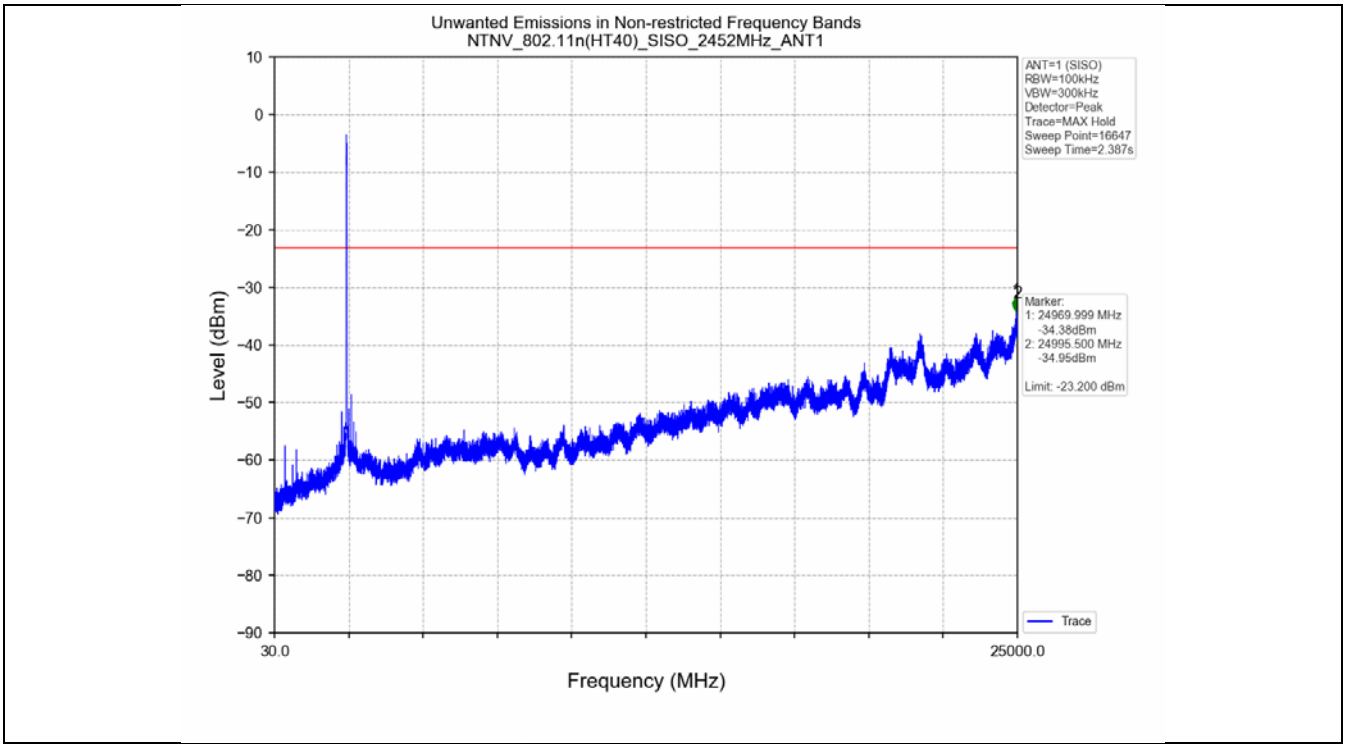


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