# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B38_5MHz_EIRP

| Band: 38 / Bandwidth: 5MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 2572.5 | 1 | 0 | 23.99 | 2.98 | 26.97 | <=33.01 | Pass |
| | | | 13 | 23.90 | 2.98 | 26.88 | <=33.01 | Pass |
| | | | 24 | 23.93 | 2.98 | 26.91 | <=33.01 | Pass |
| | | 12 | 0 | 23.59 | 2.98 | 26.57 | <=33.01 | Pass |
| | | | 6 | 23.52 | 2.98 | 26.50 | <=33.01 | Pass |
| | | | 13 | 23.57 | 2.98 | 26.55 | <=33.01 | Pass |
| | | 25 | 0 | 23.53 | 2.98 | 26.51 | <=33.01 | Pass |
| | 2595 | 1 | 0 | 23.45 | 2.98 | 26.43 | <=33.01 | Pass |
| | | | 13 | 23.44 | 2.98 | 26.42 | <=33.01 | Pass |
| | | | 24 | 23.35 | 2.98 | 26.33 | <=33.01 | Pass |
| | | 12 | 0 | 22.97 | 2.98 | 25.95 | <=33.01 | Pass |
| | | | 6 | 22.98 | 2.98 | 25.96 | <=33.01 | Pass |
| | | | 13 | 23.01 | 2.98 | 25.99 | <=33.01 | Pass |
| | | 25 | 0 | 22.91 | 2.98 | 25.89 | <=33.01 | Pass |
| | 2617.5 | 1 | 0 | 23.92 | 2.98 | 26.90 | <=33.01 | Pass |
| | | | 13 | 23.83 | 2.98 | 26.81 | <=33.01 | Pass |
| | | | 24 | 23.70 | 2.98 | 26.68 | <=33.01 | Pass |
| | | 12 | 0 | 23.27 | 2.98 | 26.25 | <=33.01 | Pass |
| | | | 6 | 23.28 | 2.98 | 26.26 | <=33.01 | Pass |
| | | | 13 | 23.50 | 2.98 | 26.48 | <=33.01 | Pass |
| | | 25 | 0 | 23.25 | 2.98 | 26.23 | <=33.01 | Pass |
| 16QAM | 2572.5 | 1 | 0 | 23.31 | 2.98 | 26.29 | <=33.01 | Pass |
| | | | 13 | 23.30 | 2.98 | 26.28 | <=33.01 | Pass |
| | | | 24 | 23.44 | 2.98 | 26.42 | <=33.01 | Pass |
| | | 12 | 0 | 22.56 | 2.98 | 25.54 | <=33.01 | Pass |
| | | | 6 | 22.57 | 2.98 | 25.55 | <=33.01 | Pass |
| | | | 13 | 22.52 | 2.98 | 25.50 | <=33.01 | Pass |
| | | 25 | 0 | 22.66 | 2.98 | 25.64 | <=33.01 | Pass |
| | 2595 | 1 | 0 | 22.70 | 2.98 | 25.68 | <=33.01 | Pass |
| | | | 13 | 22.59 | 2.98 | 25.57 | <=33.01 | Pass |
| | | | 24 | 22.95 | 2.98 | 25.93 | <=33.01 | Pass |
| | | 12 | 0 | 22.05 | 2.98 | 25.03 | <=33.01 | Pass |
| | | | 6 | 21.78 | 2.98 | 24.76 | <=33.01 | Pass |
| | | | 13 | 21.96 | 2.98 | 24.94 | <=33.01 | Pass |
| | | 25 | 0 | 21.97 | 2.98 | 24.95 | <=33.01 | Pass |
| | 2617.5 | 1 | 0 | 23.49 | 2.98 | 26.47 | <=33.01 | Pass |
| | | | 13 | 23.50 | 2.98 | 26.48 | <=33.01 | Pass |
| | | | 24 | 23.55 | 2.98 | 26.53 | <=33.01 | Pass |
| | | 12 | 0 | 22.32 | 2.98 | 25.30 | <=33.01 | Pass |
| | | | 6 | 22.30 | 2.98 | 25.28 | <=33.01 | Pass |
| | | | 13 | 22.40 | 2.98 | 25.38 | <=33.01 | Pass |
| | | 25 | 0 | 22.46 | 2.98 | 25.44 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.1.2 B38_10MHz_EIRP

| Band: 38 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 2575 | 1 | 0 | 24.16 | 2.98 | 27.14 | <=33.01 | Pass |
| | | | 25 | 24.08 | 2.98 | 27.06 | <=33.01 | Pass |
| | | | 49 | 23.97 | 2.98 | 26.95 | <=33.01 | Pass |
| | | 25 | 0 | 23.46 | 2.98 | 26.44 | <=33.01 | Pass |
| | | | 13 | 23.40 | 2.98 | 26.38 | <=33.01 | Pass |
| | | | 25 | 23.50 | 2.98 | 26.48 | <=33.01 | Pass |
| | | 50 | 0 | 23.44 | 2.98 | 26.42 | <=33.01 | Pass |
| | 2595 | 1 | 0 | 23.60 | 2.98 | 26.58 | <=33.01 | Pass |
| | | | 25 | 23.45 | 2.98 | 26.43 | <=33.01 | Pass |
| | | | 49 | 23.52 | 2.98 | 26.50 | <=33.01 | Pass |
| | | 25 | 0 | 23.00 | 2.98 | 25.98 | <=33.01 | Pass |
| | | | 13 | 22.93 | 2.98 | 25.91 | <=33.01 | Pass |
| | | | 25 | 22.92 | 2.98 | 25.90 | <=33.01 | Pass |
| | | 50 | 0 | 22.93 | 2.98 | 25.91 | <=33.01 | Pass |
| | 2615 | 1 | 0 | 23.42 | 2.98 | 26.40 | <=33.01 | Pass |
| | | | 25 | 23.50 | 2.98 | 26.48 | <=33.01 | Pass |
| | | | 49 | 23.83 | 2.98 | 26.81 | <=33.01 | Pass |
| | | 25 | 0 | 23.26 | 2.98 | 26.24 | <=33.01 | Pass |
| | | | 13 | 23.22 | 2.98 | 26.20 | <=33.01 | Pass |
| | | | 25 | 23.42 | 2.98 | 26.40 | <=33.01 | Pass |
| | | 50 | 0 | 23.32 | 2.98 | 26.30 | <=33.01 | Pass |
| 16QAM | 2575 | 1 | 0 | 23.83 | 2.98 | 26.81 | <=33.01 | Pass |
| | | | 25 | 23.66 | 2.98 | 26.64 | <=33.01 | Pass |
| | | | 49 | 23.37 | 2.98 | 26.35 | <=33.01 | Pass |
| | | 25 | 0 | 22.61 | 2.98 | 25.59 | <=33.01 | Pass |
| | | | 13 | 22.62 | 2.98 | 25.60 | <=33.01 | Pass |
| | | | 25 | 22.55 | 2.98 | 25.53 | <=33.01 | Pass |
| | | 50 | 0 | 22.60 | 2.98 | 25.58 | <=33.01 | Pass |
| | 2595 | 1 | 0 | 23.97 | 2.98 | 26.95 | <=33.01 | Pass |
| | | | 25 | 23.77 | 2.98 | 26.75 | <=33.01 | Pass |
| | | | 49 | 23.78 | 2.98 | 26.76 | <=33.01 | Pass |
| | | 25 | 0 | 22.10 | 2.98 | 25.08 | <=33.01 | Pass |
| | | | 13 | 22.07 | 2.98 | 25.05 | <=33.01 | Pass |
| | | | 25 | 22.11 | 2.98 | 25.09 | <=33.01 | Pass |
| | | 50 | 0 | 22.22 | 2.98 | 25.20 | <=33.01 | Pass |
| | 2615 | 1 | 0 | 23.27 | 2.98 | 26.25 | <=33.01 | Pass |
| | | | 25 | 23.77 | 2.98 | 26.75 | <=33.01 | Pass |
| | | | 49 | 23.72 | 2.98 | 26.70 | <=33.01 | Pass |
| | | 25 | 0 | 22.63 | 2.98 | 25.61 | <=33.01 | Pass |
| | | | 13 | 22.60 | 2.98 | 25.58 | <=33.01 | Pass |
| | | | 25 | 22.56 | 2.98 | 25.54 | <=33.01 | Pass |
| | | 50 | 0 | 22.32 | 2.98 | 25.30 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.1.3 B38_15MHz_EIRP

| Band: 38 / Bandwidth: 15MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 2577.5 | 1 | 0 | 24.29 | 2.98 | 27.27 | <=33.01 | Pass |
| | | | 38 | 24.17 | 2.98 | 27.15 | <=33.01 | Pass |
| | | | 74 | 23.86 | 2.98 | 26.84 | <=33.01 | Pass |
| | | 36 | 0 | 23.46 | 2.98 | 26.44 | <=33.01 | Pass |
| | | | 18 | 23.51 | 2.98 | 26.49 | <=33.01 | Pass |
| | | | 39 | 23.31 | 2.98 | 26.29 | <=33.01 | Pass |
| | | 75 | 0 | 23.44 | 2.98 | 26.42 | <=33.01 | Pass |
| | 2595 | 1 | 0 | 23.62 | 2.98 | 26.60 | <=33.01 | Pass |
| | | | 38 | 23.50 | 2.98 | 26.48 | <=33.01 | Pass |
| | | | 74 | 23.55 | 2.98 | 26.53 | <=33.01 | Pass |
| | | 36 | 0 | 23.10 | 2.98 | 26.08 | <=33.01 | Pass |
| | | | 18 | 23.01 | 2.98 | 25.99 | <=33.01 | Pass |
| | | | 39 | 22.94 | 2.98 | 25.92 | <=33.01 | Pass |
| | | 75 | 0 | 22.98 | 2.98 | 25.96 | <=33.01 | Pass |
| | 2612.5 | 1 | 0 | 23.54 | 2.98 | 26.52 | <=33.01 | Pass |
| | | | 38 | 23.69 | 2.98 | 26.67 | <=33.01 | Pass |
| | | | 74 | 23.75 | 2.98 | 26.73 | <=33.01 | Pass |
| | | 36 | 0 | 23.19 | 2.98 | 26.17 | <=33.01 | Pass |
| | | | 18 | 23.24 | 2.98 | 26.22 | <=33.01 | Pass |
| | | | 39 | 23.19 | 2.98 | 26.17 | <=33.01 | Pass |
| | | 75 | 0 | 23.33 | 2.98 | 26.31 | <=33.01 | Pass |
| 16QAM | 2577.5 | 1 | 0 | 23.81 | 2.98 | 26.79 | <=33.01 | Pass |
| | | | 38 | 23.43 | 2.98 | 26.41 | <=33.01 | Pass |
| | | | 74 | 23.29 | 2.98 | 26.27 | <=33.01 | Pass |
| | | 36 | 0 | 22.56 | 2.98 | 25.54 | <=33.01 | Pass |
| | | | 18 | 22.59 | 2.98 | 25.57 | <=33.01 | Pass |
| | | | 39 | 22.52 | 2.98 | 25.50 | <=33.01 | Pass |
| | | 75 | 0 | 22.59 | 2.98 | 25.57 | <=33.01 | Pass |
| | 2595 | 1 | 0 | 23.83 | 2.98 | 26.81 | <=33.01 | Pass |
| | | | 38 | 23.84 | 2.98 | 26.82 | <=33.01 | Pass |
| | | | 74 | 23.82 | 2.98 | 26.80 | <=33.01 | Pass |
| | | 36 | 0 | 22.19 | 2.98 | 25.17 | <=33.01 | Pass |
| | | | 18 | 22.06 | 2.98 | 25.04 | <=33.01 | Pass |
| | | | 39 | 22.05 | 2.98 | 25.03 | <=33.01 | Pass |
| | | 75 | 0 | 22.02 | 2.98 | 25.00 | <=33.01 | Pass |
| | 2612.5 | 1 | 0 | 22.94 | 2.98 | 25.92 | <=33.01 | Pass |
| | | | 38 | 23.59 | 2.98 | 26.57 | <=33.01 | Pass |
| | | | 74 | 23.74 | 2.98 | 26.72 | <=33.01 | Pass |
| | | 36 | 0 | 22.26 | 2.98 | 25.24 | <=33.01 | Pass |
| | | | 18 | 22.50 | 2.98 | 25.48 | <=33.01 | Pass |
| | | | 39 | 22.41 | 2.98 | 25.39 | <=33.01 | Pass |
| | | 75 | 0 | 22.44 | 2.98 | 25.42 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.1.4 B38_20MHz_EIRP

| Band: 38 / Bandwidth: 20MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 2580 | 1 | 0 | 24.16 | 2.98 | 27.14 | <=33.01 | Pass |
| | | | 50 | 23.84 | 2.98 | 26.82 | <=33.01 | Pass |
| | | | 99 | 23.50 | 2.98 | 26.48 | <=33.01 | Pass |
| | | 50 | 0 | 23.45 | 2.98 | 26.43 | <=33.01 | Pass |
| | | | 25 | 23.45 | 2.98 | 26.43 | <=33.01 | Pass |
| | | | 50 | 23.09 | 2.98 | 26.07 | <=33.01 | Pass |
| | | 100 | 0 | 23.43 | 2.98 | 26.41 | <=33.01 | Pass |
| | 2595 | 1 | 0 | 23.77 | 2.98 | 26.75 | <=33.01 | Pass |
| | | | 50 | 23.35 | 2.98 | 26.33 | <=33.01 | Pass |
| | | | 99 | 23.46 | 2.98 | 26.44 | <=33.01 | Pass |
| | | 50 | 0 | 23.12 | 2.98 | 26.10 | <=33.01 | Pass |
| | | | 25 | 23.03 | 2.98 | 26.01 | <=33.01 | Pass |
| | | | 50 | 22.86 | 2.98 | 25.84 | <=33.01 | Pass |
| | | 100 | 0 | 23.00 | 2.98 | 25.98 | <=33.01 | Pass |
| | 2610 | 1 | 0 | 23.43 | 2.98 | 26.41 | <=33.01 | Pass |
| | | | 50 | 23.67 | 2.98 | 26.65 | <=33.01 | Pass |
| | | | 99 | 23.84 | 2.98 | 26.82 | <=33.01 | Pass |
| | | 50 | 0 | 23.05 | 2.98 | 26.03 | <=33.01 | Pass |
| | | | 25 | 23.00 | 2.98 | 25.98 | <=33.01 | Pass |
| | | | 50 | 23.21 | 2.98 | 26.19 | <=33.01 | Pass |
| | | 100 | 0 | 22.99 | 2.98 | 25.97 | <=33.01 | Pass |
| 16QAM | 2580 | 1 | 0 | 23.07 | 2.98 | 26.05 | <=33.01 | Pass |
| | | | 50 | 23.15 | 2.98 | 26.13 | <=33.01 | Pass |
| | | | 99 | 22.76 | 2.98 | 25.74 | <=33.01 | Pass |
| | | 50 | 0 | 22.76 | 2.98 | 25.74 | <=33.01 | Pass |
| | | | 25 | 22.74 | 2.98 | 25.72 | <=33.01 | Pass |
| | | | 50 | 22.45 | 2.98 | 25.43 | <=33.01 | Pass |
| | | 100 | 0 | 22.62 | 2.98 | 25.60 | <=33.01 | Pass |
| | 2595 | 1 | 0 | 23.47 | 2.98 | 26.45 | <=33.01 | Pass |
| | | | 50 | 22.74 | 2.98 | 25.72 | <=33.01 | Pass |
| | | | 99 | 22.77 | 2.98 | 25.75 | <=33.01 | Pass |
| | | 50 | 0 | 22.23 | 2.98 | 25.21 | <=33.01 | Pass |
| | | | 25 | 22.10 | 2.98 | 25.08 | <=33.01 | Pass |
| | | | 50 | 22.09 | 2.98 | 25.07 | <=33.01 | Pass |
| | | 100 | 0 | 22.05 | 2.98 | 25.03 | <=33.01 | Pass |
| | 2610 | 1 | 0 | 23.26 | 2.98 | 26.24 | <=33.01 | Pass |
| | | | 50 | 23.93 | 2.98 | 26.91 | <=33.01 | Pass |
| | | | 99 | 23.59 | 2.98 | 26.57 | <=33.01 | Pass |
| | | 50 | 0 | 22.12 | 2.98 | 25.10 | <=33.01 | Pass |
| | | | 25 | 22.26 | 2.98 | 25.24 | <=33.01 | Pass |
| | | | 50 | 22.32 | 2.98 | 25.30 | <=33.01 | Pass |
| | | 100 | 0 | 22.30 | 2.98 | 25.28 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

# 2. Frequency Stability

## 2.1 Test Result

### 2.1.1 B38_10MHz

| Band: 38 / Bandwidth: 10MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 2595 | 50 | 0 | 20 | 3.40 | 36.936 | 0.0142 | -2.5 to 2.5 | Pass |
| | | | | | 3.60 | 44.746 | 0.0172 | -2.5 to 2.5 | Pass |
| | | | | | 4.20 | 35.048 | 0.0135 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.60 | 19.941 | 0.0077 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.60 | -21.930 | -0.0085 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.60 | -4.992 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.60 | -15.507 | -0.0060 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.60 | -0.844 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.60 | -0.672 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.60 | 0.958 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.60 | -11.187 | -0.0043 | -2.5 to 2.5 | Pass |

# 3. 99% & 26dB Bandwidth

## 3.1 Test Result

### 3.1.1 Band38_OBW

| Band: 38 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 2595 | 25 | 0 | 4.577 | / | Pass |
| | 16QAM | 2595 | 25 | 0 | 4.579 | / | Pass |
| 10 | QPSK | 2595 | 50 | 0 | 9.072 | / | Pass |
| | 16QAM | 2595 | 50 | 0 | 9.066 | / | Pass |
| 15 | QPSK | 2595 | 75 | 0 | 13.697 | / | Pass |
| | 16QAM | 2595 | 75 | 0 | 13.639 | / | Pass |
| 20 | QPSK | 2595 | 100 | 0 | 18.073 | / | Pass |
| | 16QAM | 2595 | 100 | 0 | 18.012 | / | Pass |

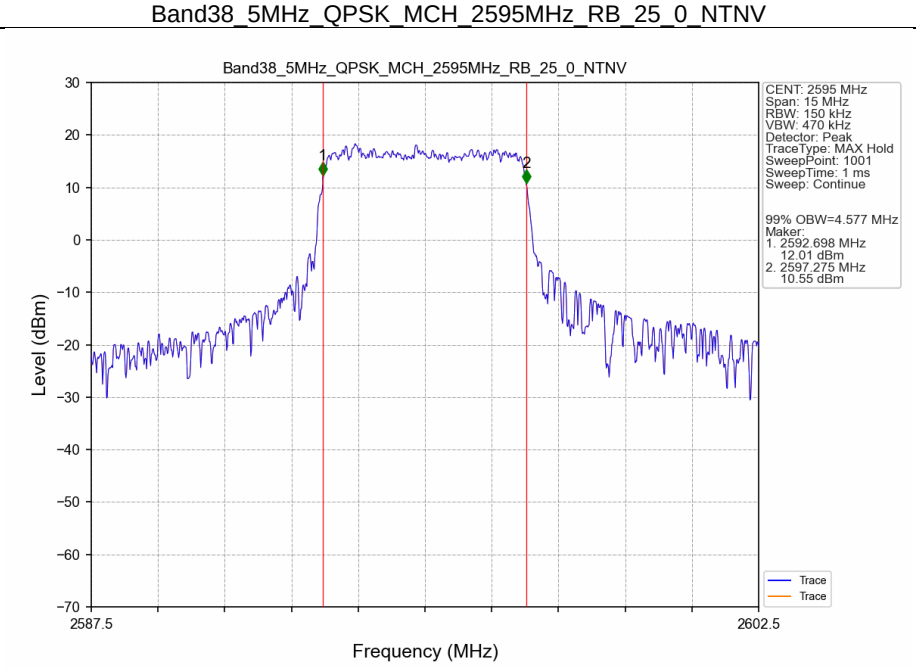
### 3.1.2 Band38_XDB

| Band: 38 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 2595 | 25 | 0 | 5.928 | / | Pass |
| | 16QAM | 2595 | 25 | 0 | 5.821 | / | Pass |
| 10 | QPSK | 2595 | 50 | 0 | 10.925 | / | Pass |
| | 16QAM | 2595 | 50 | 0 | 10.567 | / | Pass |
| 15 | QPSK | 2595 | 75 | 0 | 18.137 | / | Pass |
| | 16QAM | 2595 | 75 | 0 | 16.103 | / | Pass |
| 20 | QPSK | 2595 | 100 | 0 | 19.584 | / | Pass |
| | 16QAM | 2595 | 100 | 0 | 19.225 | / | Pass |

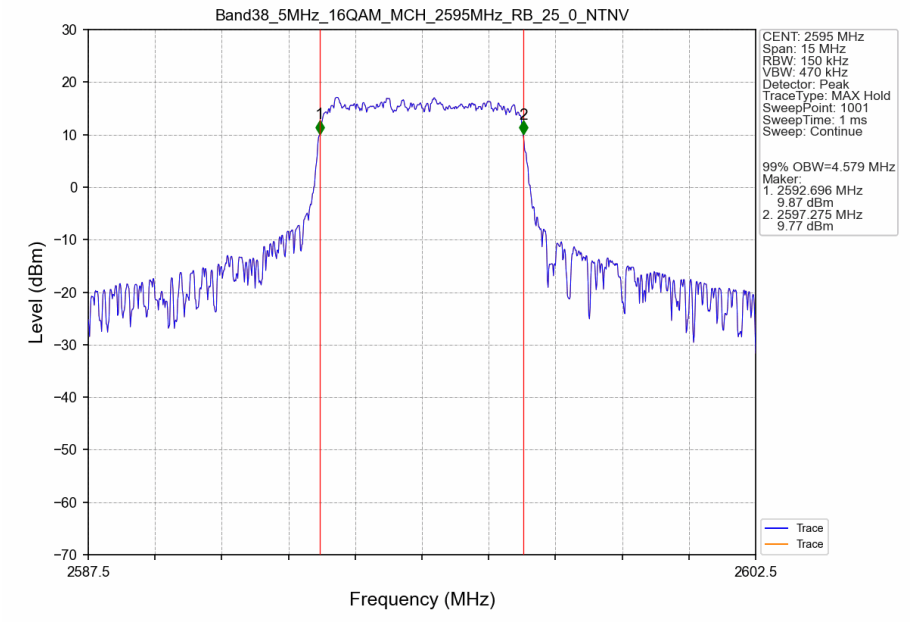
## 3.2 Test Graph

### 3.2.1 Band38_OBW

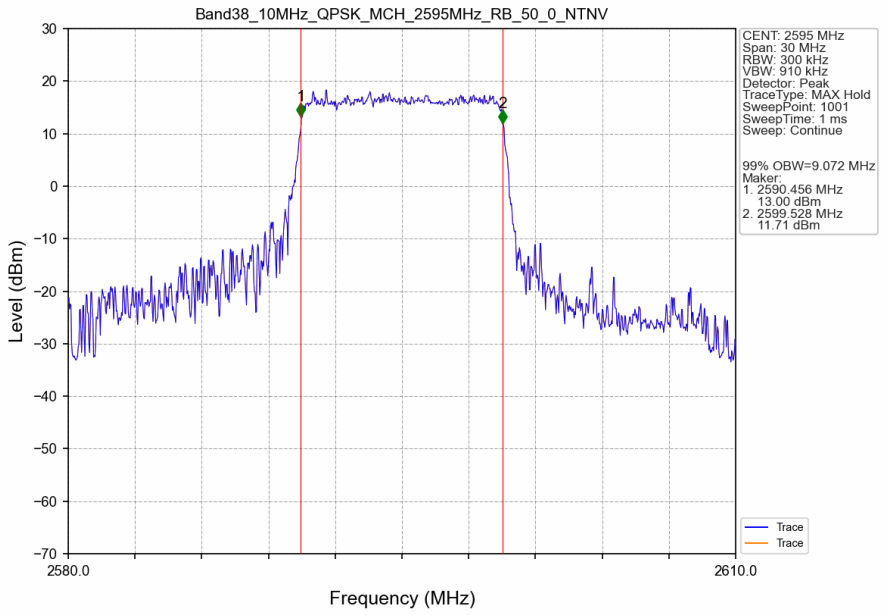
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



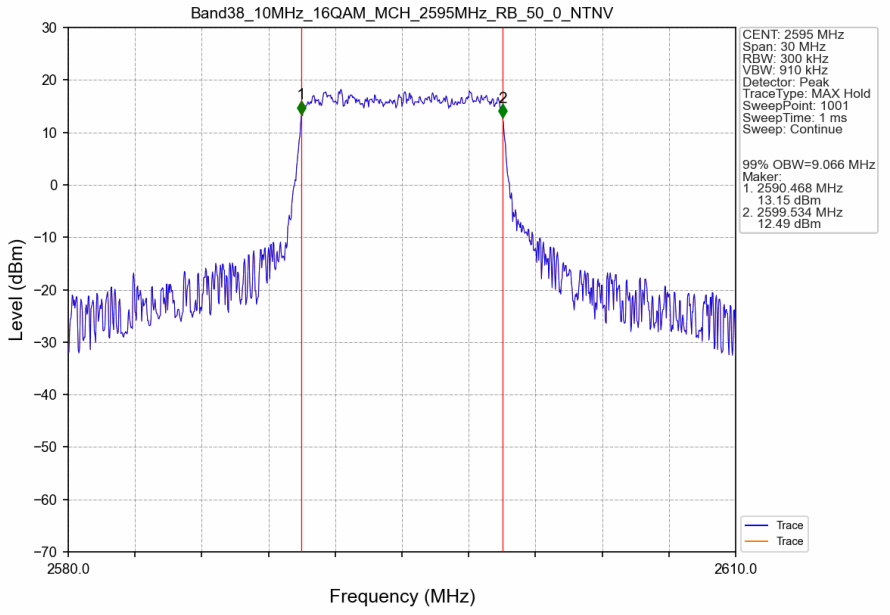

Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



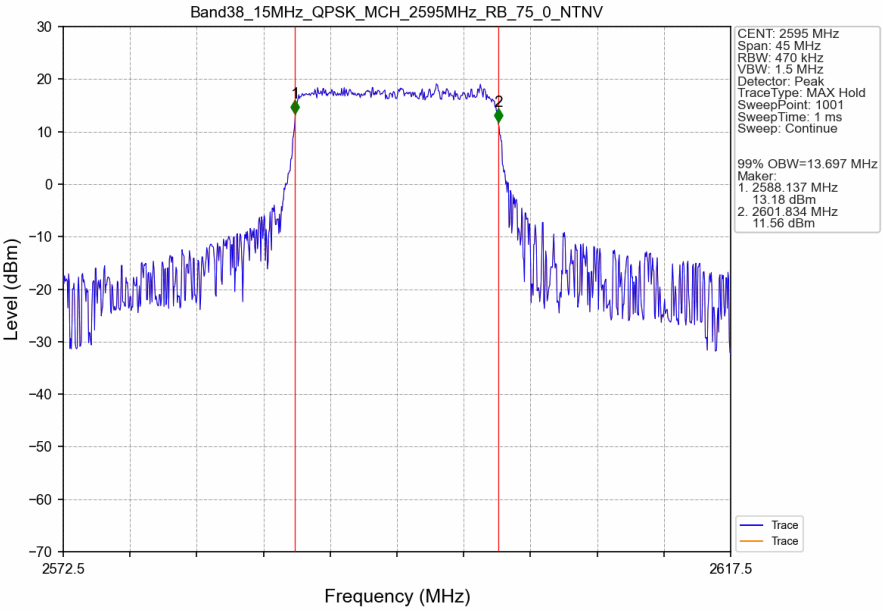
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



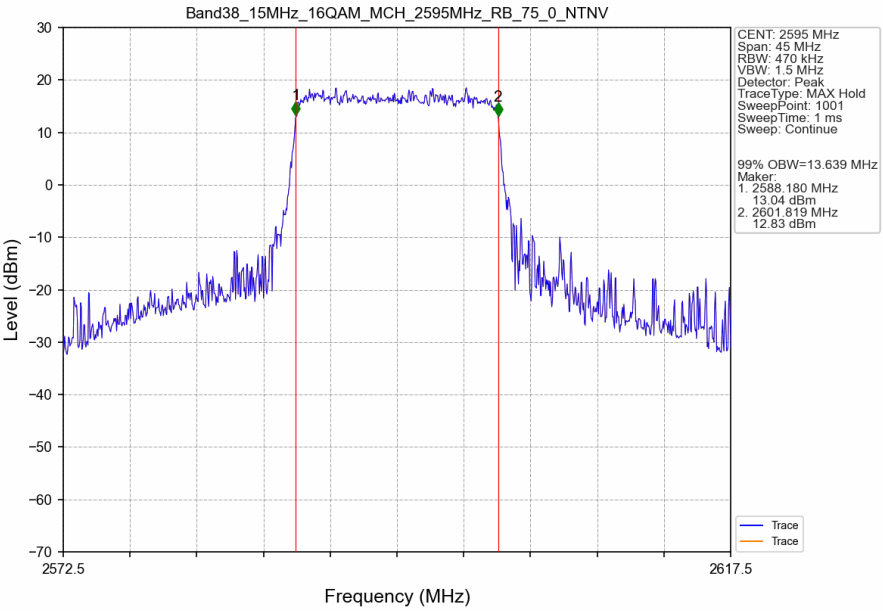

Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



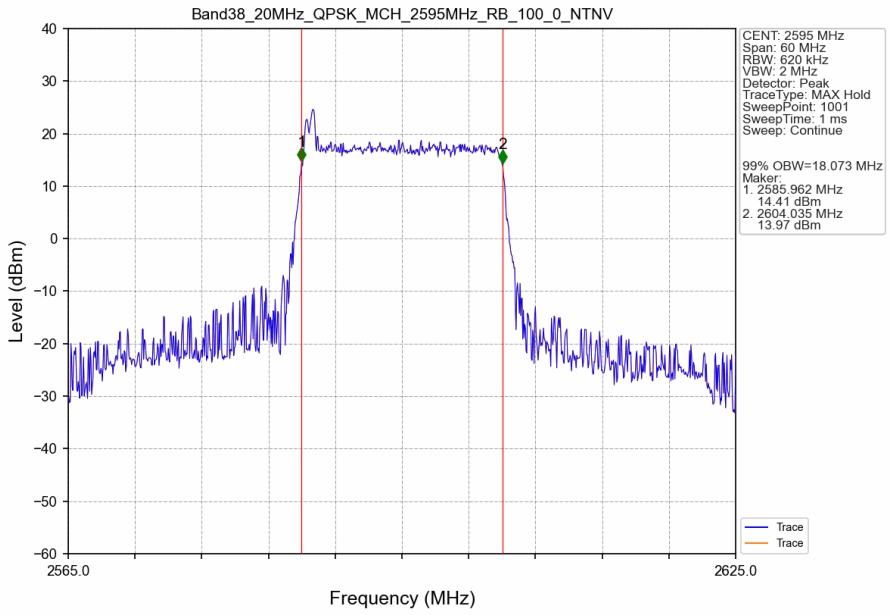
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



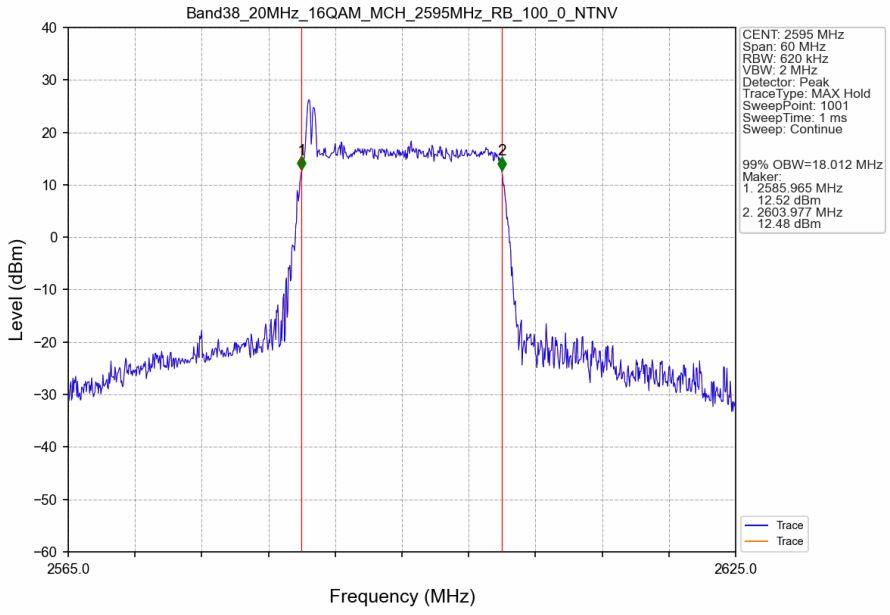

Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV

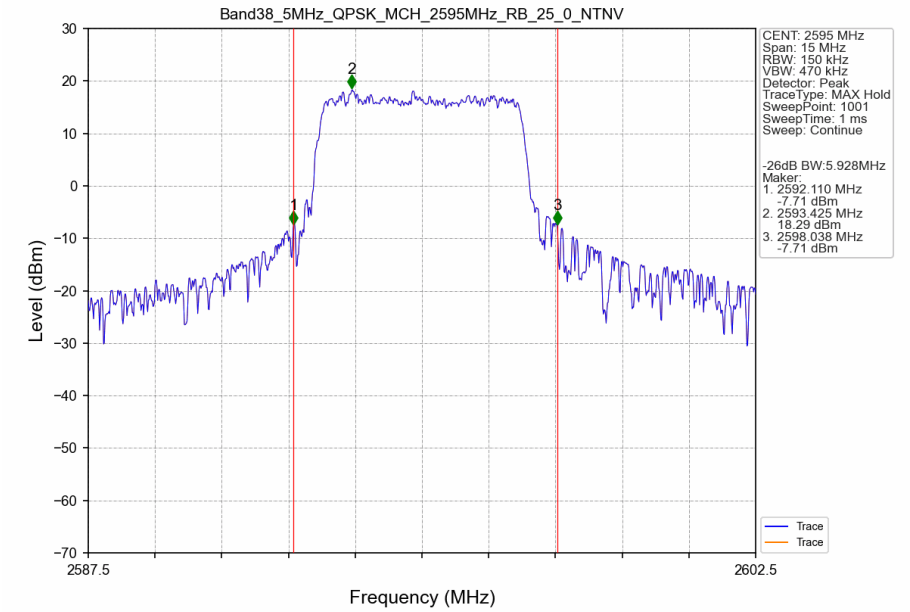



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV

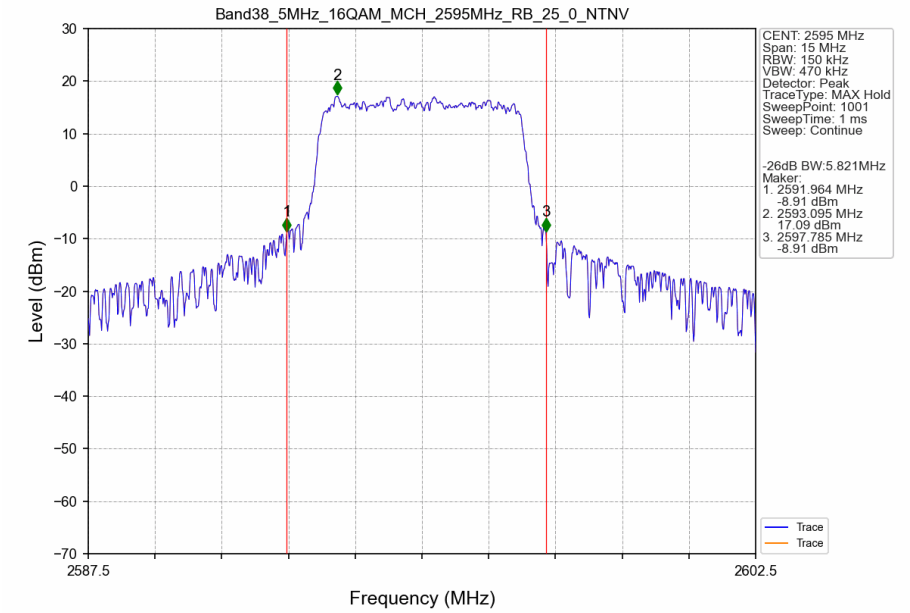


### 3.2.2 Band38_XDB

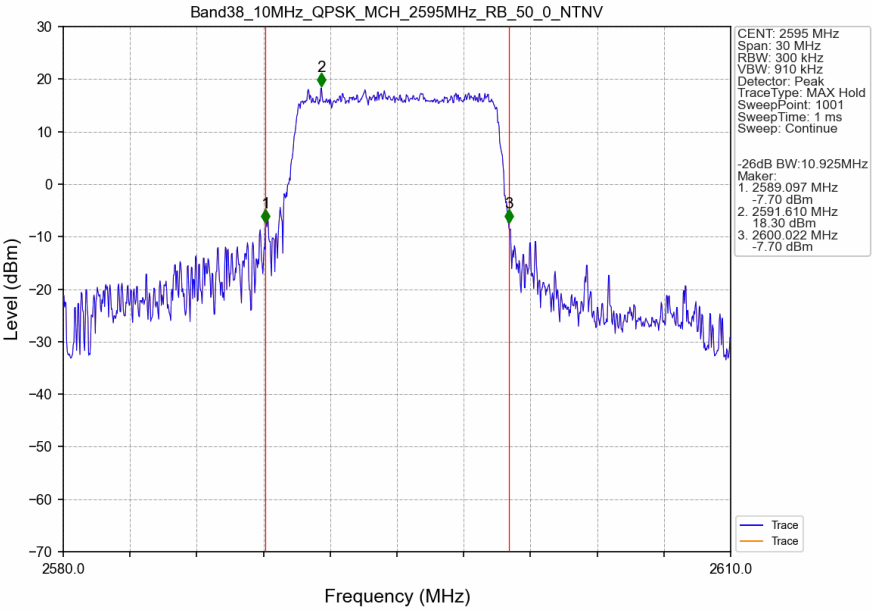
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



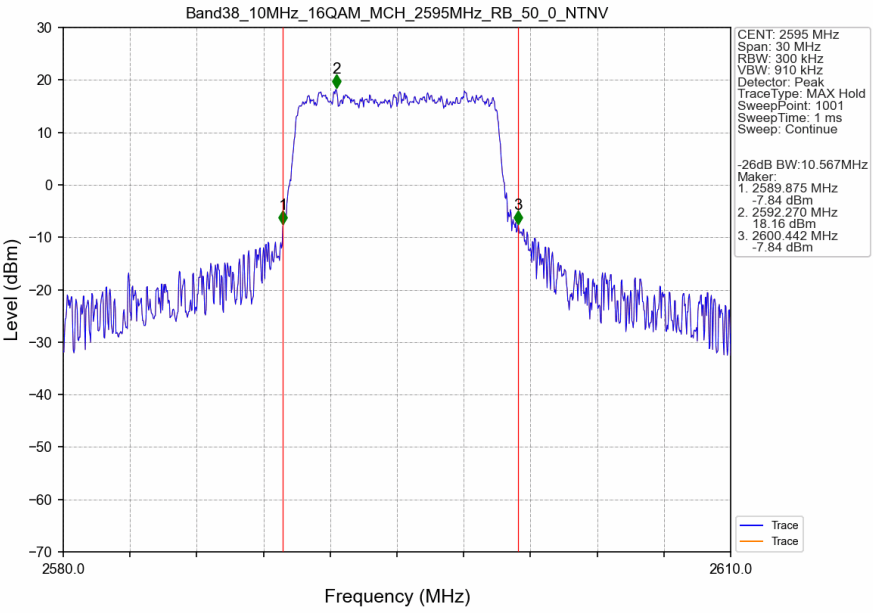

Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



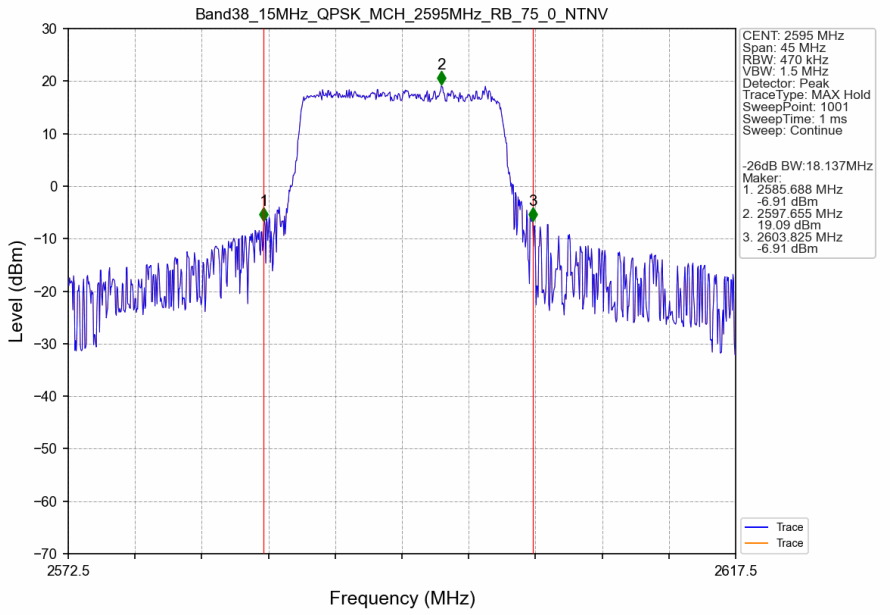
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



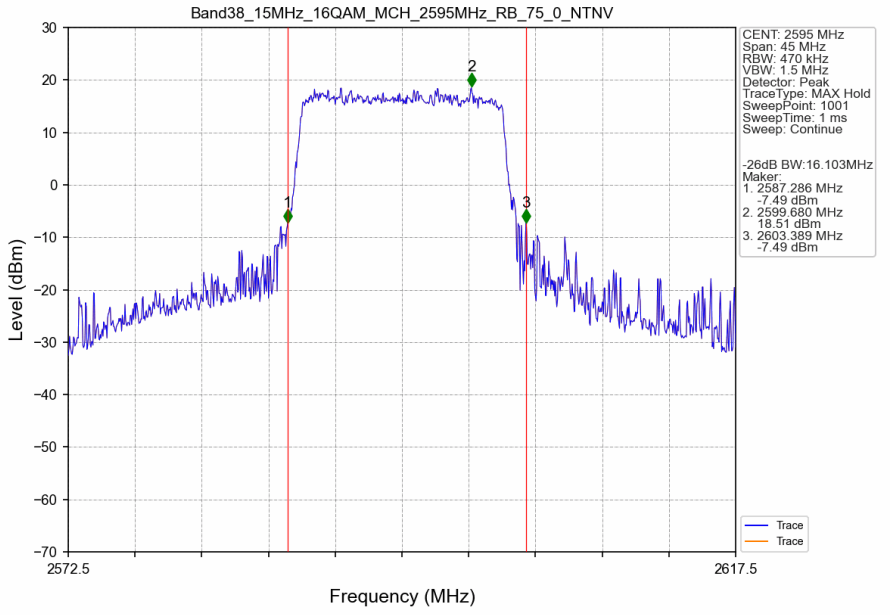

Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



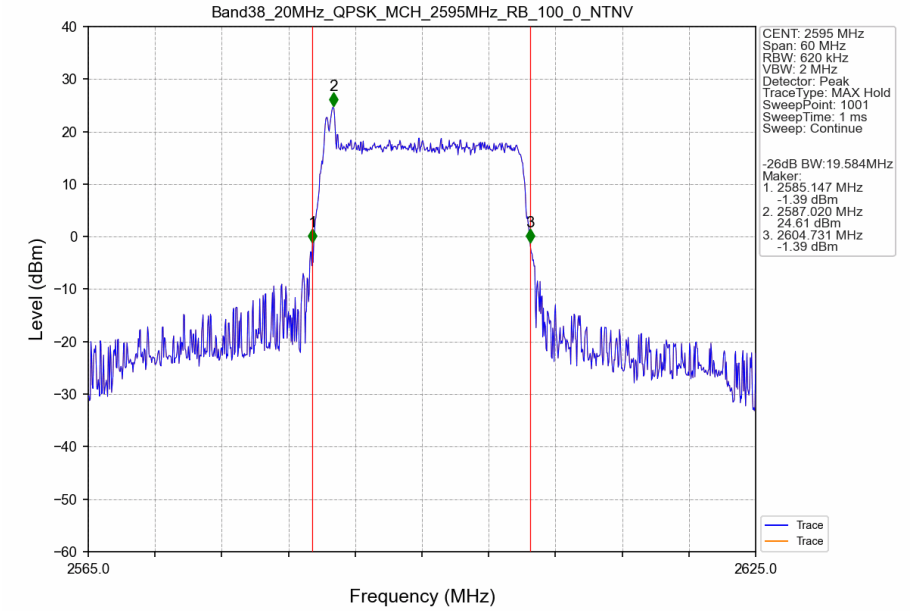
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



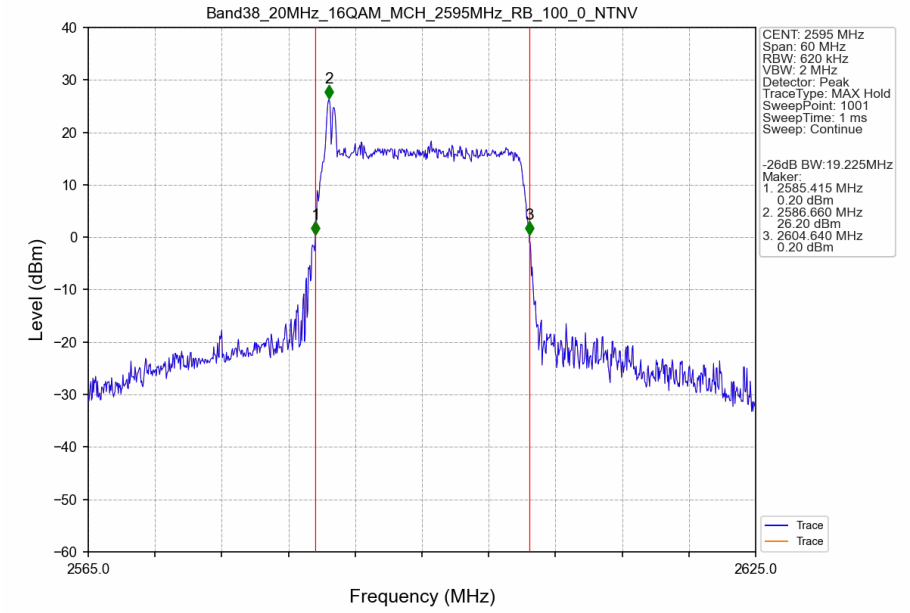

Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV




Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



# 4. Peak-Average Ratio

## 4.1 Test Result

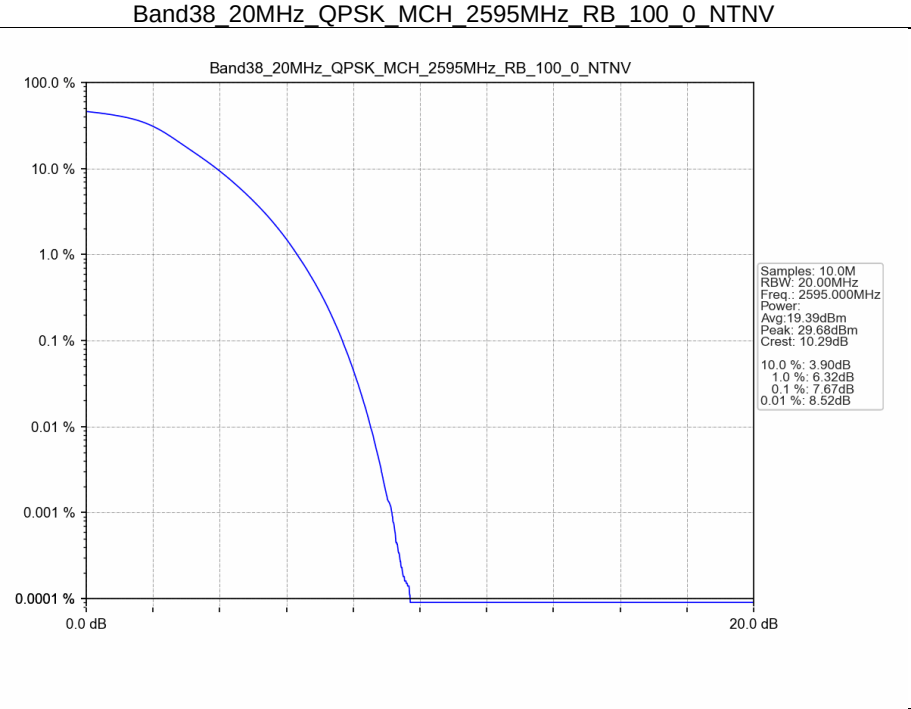
### 4.1.1 B38_20MHz

| Band: 38 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2595 | 100 | 0 | 7.67 | <=13 | Pass |
| 16QAM | 2595 | 100 | 0 | 8.08 | <=13 | Pass |

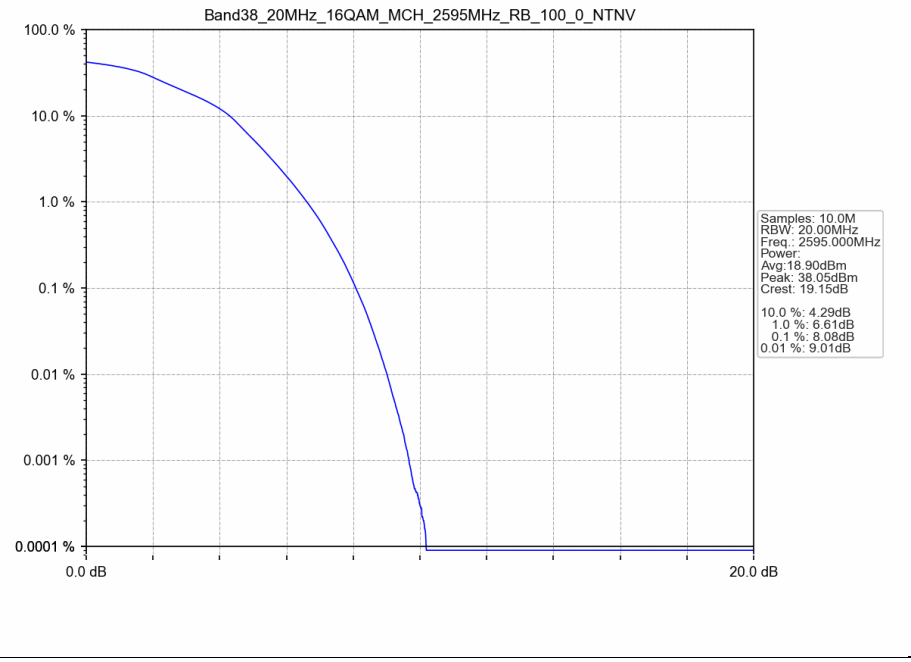
## 4.2 Test Graph

### 4.2.1 B38_20MHz

Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV




Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



# 5. Spurious Emission

## 5.1 Test Result

### 5.1.1 B38_5MHz

| Band: 38 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2572.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 2595 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2617.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

### 5.1.2 B38_10MHz

| Band: 38 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2575 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 2595 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2615 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

### 5.1.3 B38_15MHz

| Band: 38 / Bandwidth: 15MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2577.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 2595 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2612.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |

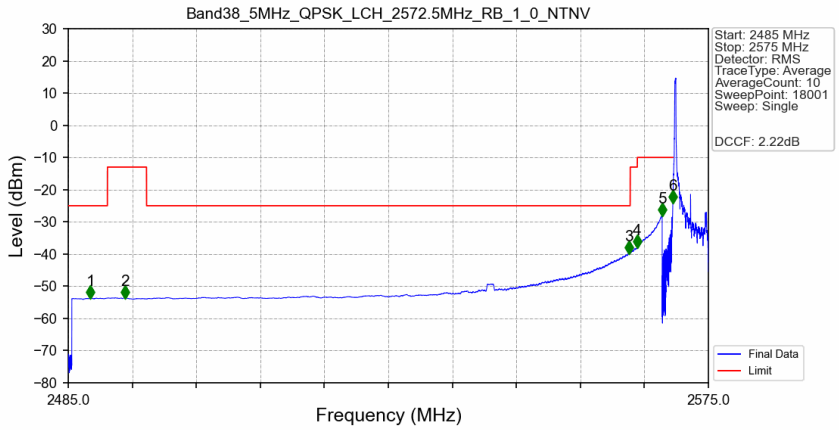
### 5.1.4 B38_20MHz

| Band: 38 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2580 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 2595 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2610 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |

## 5.2 Test Graph

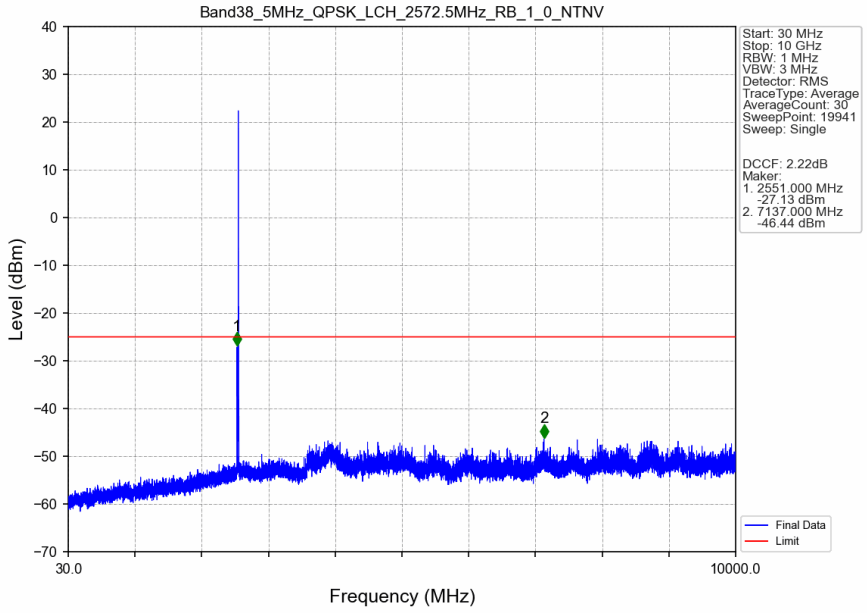
### 5.2.1 B38_5MHz

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV

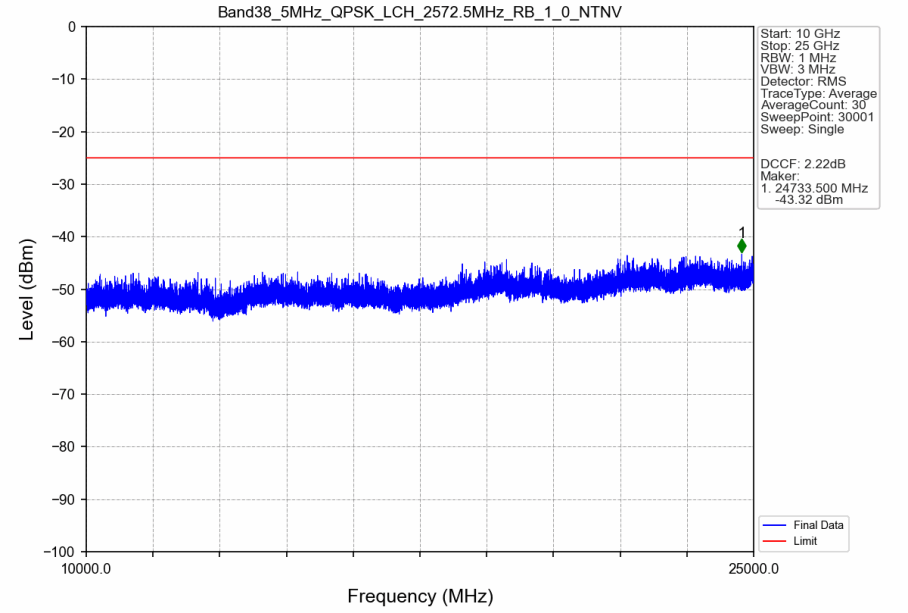



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2485 | 2490.5 | 1 | CHP | 1 | 2488.095 | -53.62 | -25 | Pass |
| 2490.5 | 2496 | 1 | CHP | 2 | 2493.010 | -53.56 | -13 | Pass |
| 2496 | 2564 | 1 | CHP | 3 | 2563.795 | -39.66 | -25 | Pass |
| 2564 | 2565 | 1 | CHP | 4 | 2565.000 | -37.77 | -13 | Pass |
| 2565 | 2569 | 1 | CHP | 5 | 2568.495 | -27.96 | -10 | Pass |
| 2569 | 2570 | 0.02 | CHP | 6 | 2569.995 | -23.99 | -10 | Pass |
| 2570 | 2575 | 0.02 | CHP | / | / | / | / | / |

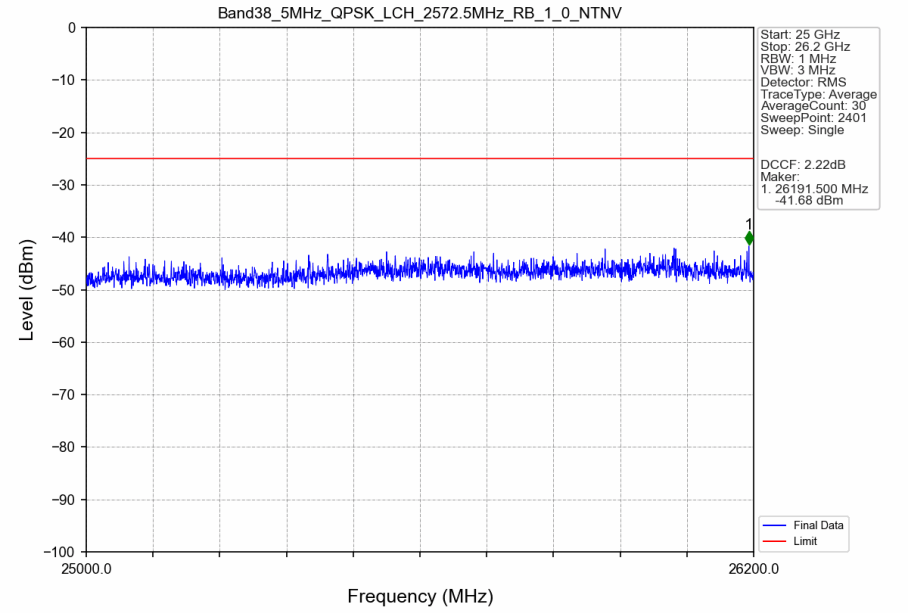
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



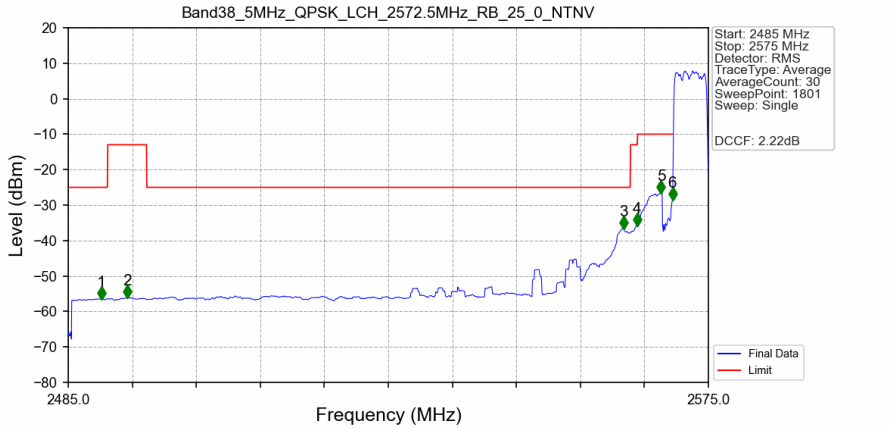
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV




Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV

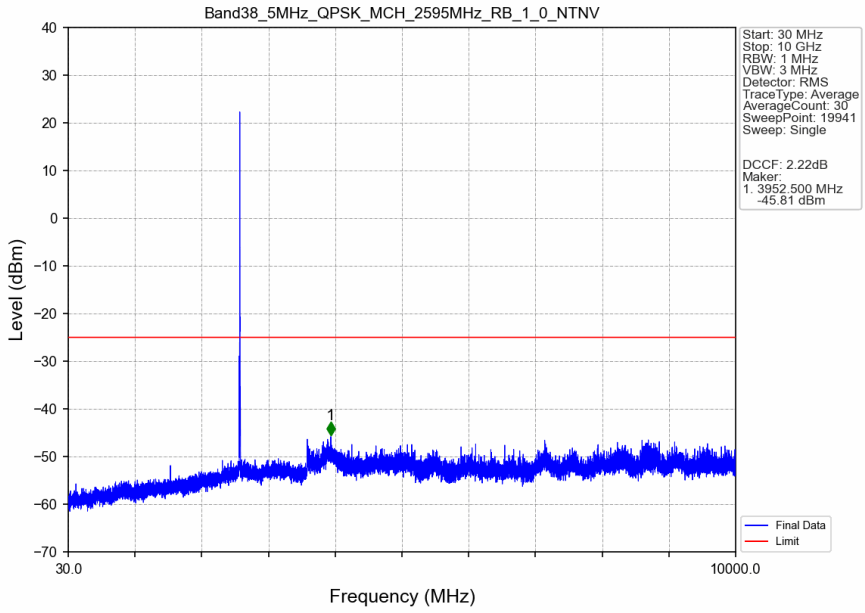


## Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

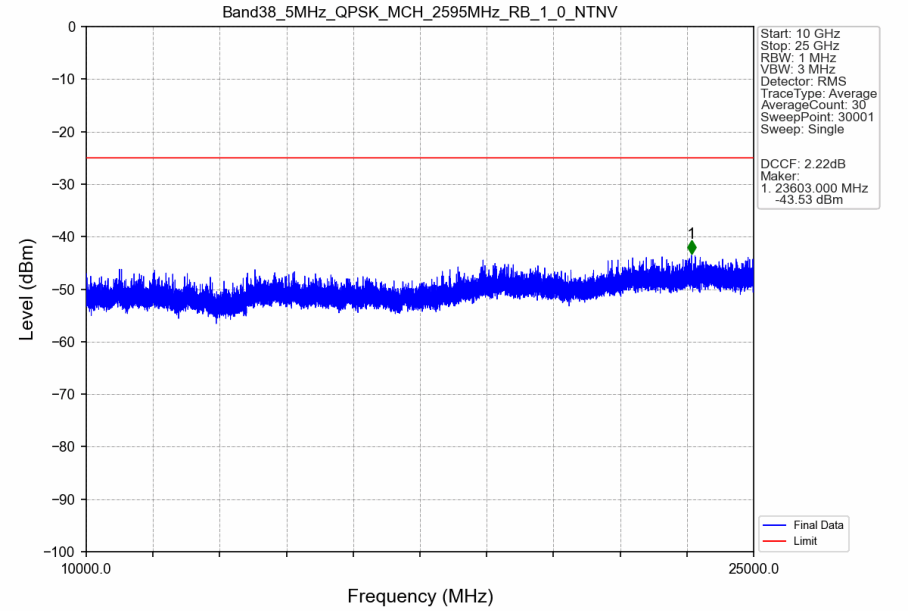



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2485 | 2490.5 | 1 | CHP | 1 | 2489.650 | -56.37 | -25 | Pass |
| 2490.5 | 2496 | 1 | CHP | 2 | 2493.300 | -56.03 | -13 | Pass |
| 2496 | 2564 | 1 | CHP | 3 | 2563.100 | -36.51 | -25 | Pass |
| 2564 | 2565 | 1 | CHP | 4 | 2565.000 | -35.64 | -13 | Pass |
| 2565 | 2569 | 1 | CHP | 5 | 2568.350 | -26.53 | -10 | Pass |
| 2569 | 2570 | 0.119 | CHP | 6 | 2569.950 | -28.43 | -10 | Pass |
| 2570 | 2575 | 0.119 | CHP | / | / | / | / | / |

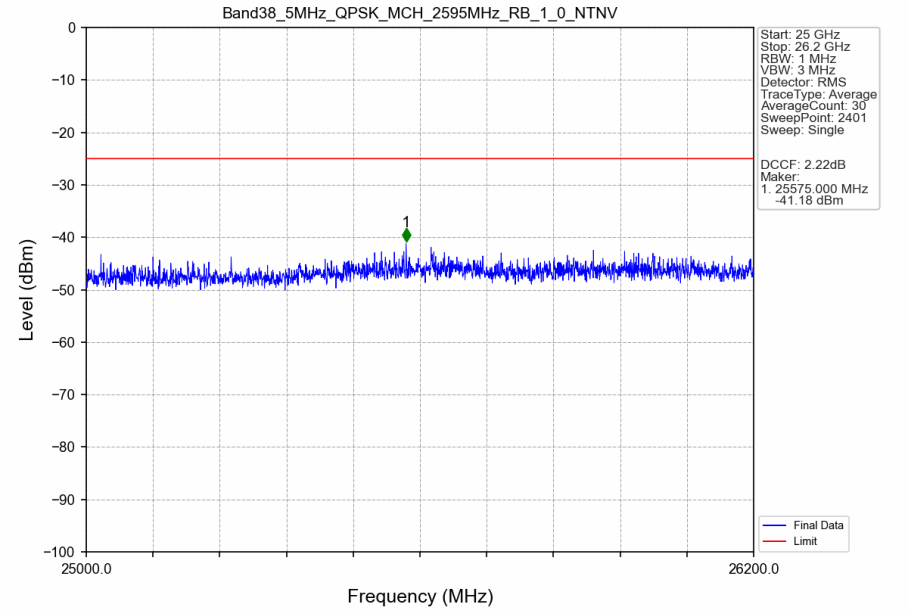
## Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



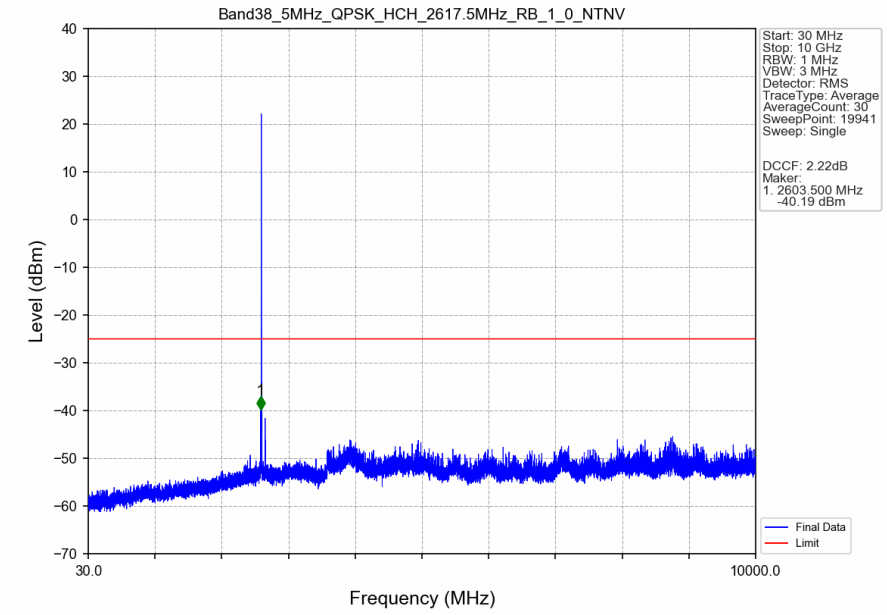
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



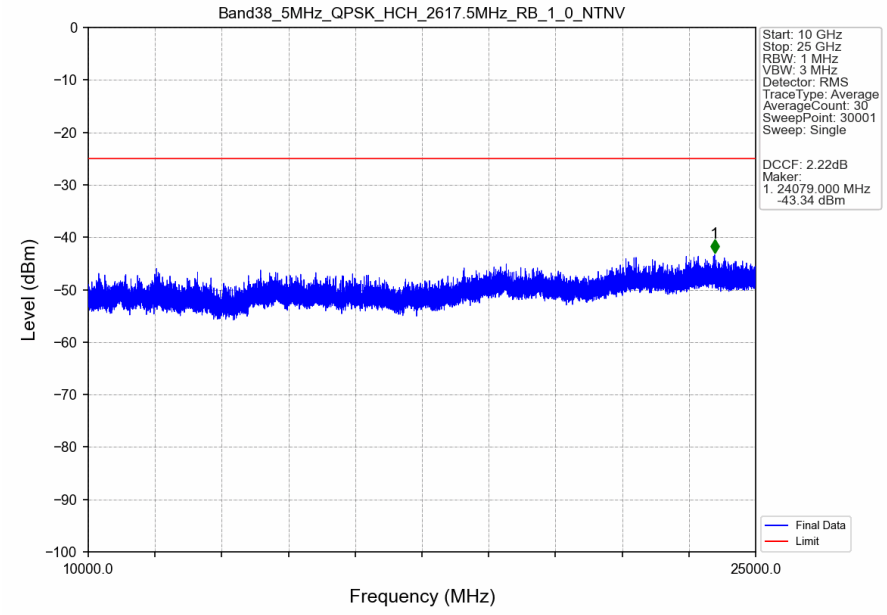

Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



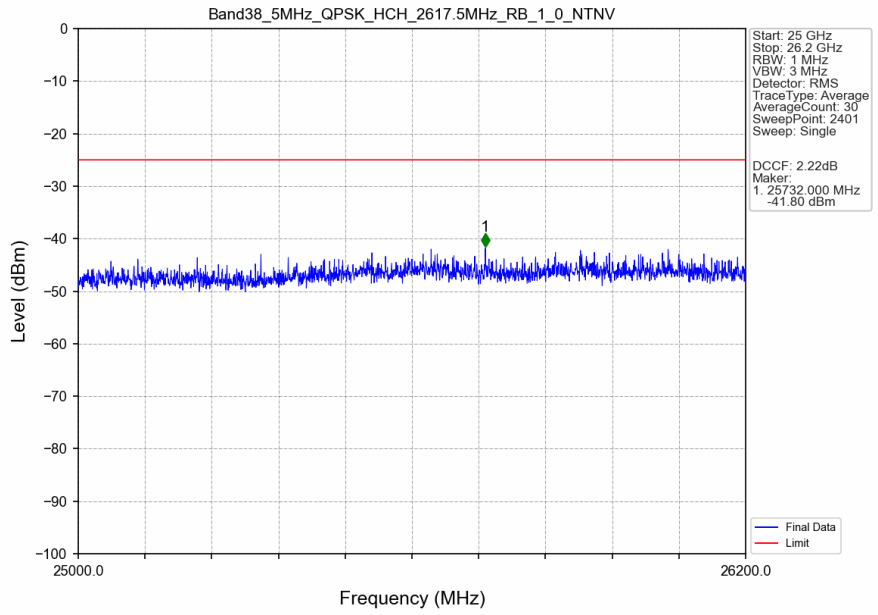
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



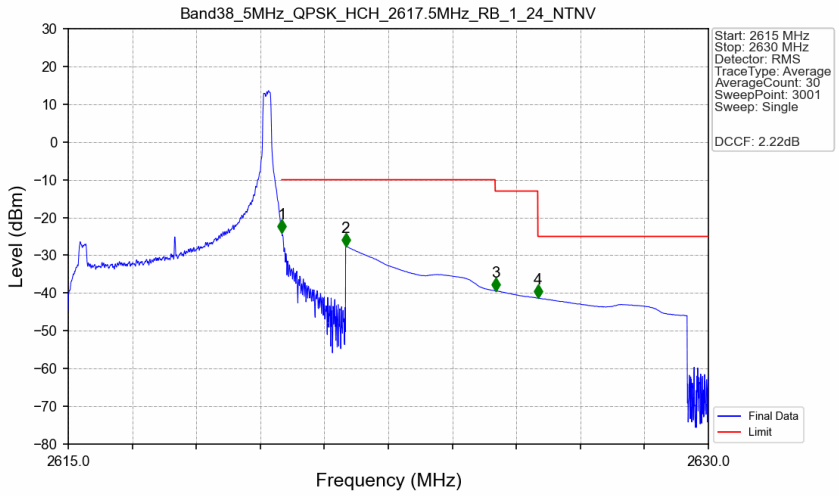

Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV

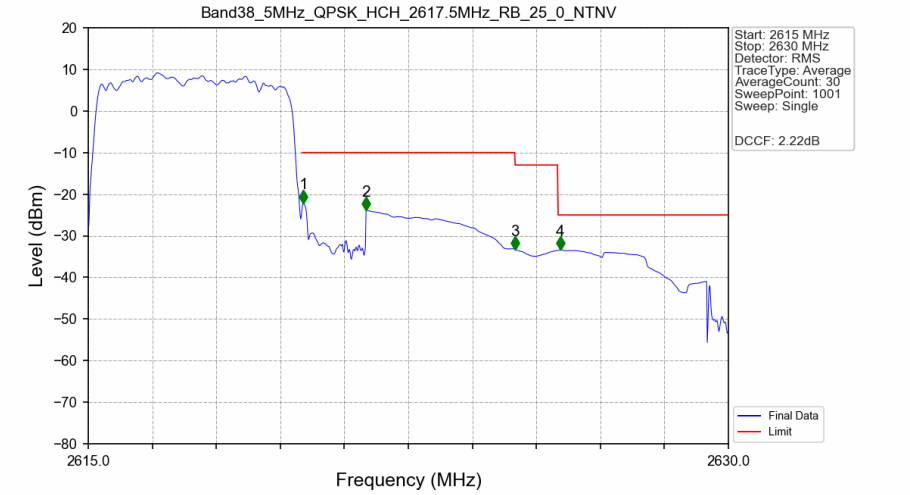



Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2615 | 2620 | 0.02 | CHP | / | / | / | / | / |
| 2620 | 2621 | 0.02 | CHP | 1 | 2620.005 | -23.96 | -10 | Pass |
| 2621 | 2625 | 1 | CHP | 2 | 2621.500 | -27.56 | -10 | Pass |
| 2625 | 2626 | 1 | CHP | 3 | 2625.010 | -39.39 | -13 | Pass |
| 2626 | 2630 | 1 | CHP | 4 | 2626.010 | -41.34 | -25 | Pass |

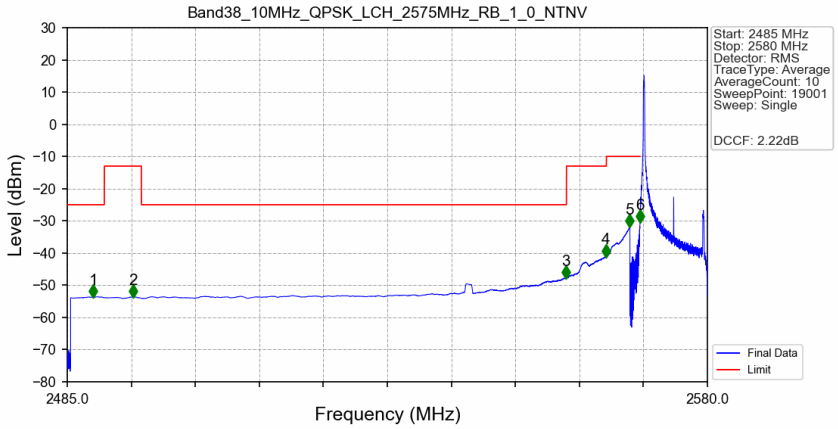
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2615 | 2620 | 0.119 | CHP | / | / | / | / | / |
| 2620 | 2621 | 0.119 | CHP | 1 | 2620.040 | -22.11 | -10 | Pass |
| 2621 | 2625 | 1 | CHP | 2 | 2621.510 | -23.80 | -10 | Pass |
| 2625 | 2626 | 1 | CHP | 3 | 2625.005 | -33.27 | -13 | Pass |
| 2626 | 2630 | 1 | CHP | 4 | 2626.055 | -33.36 | -25 | Pass |

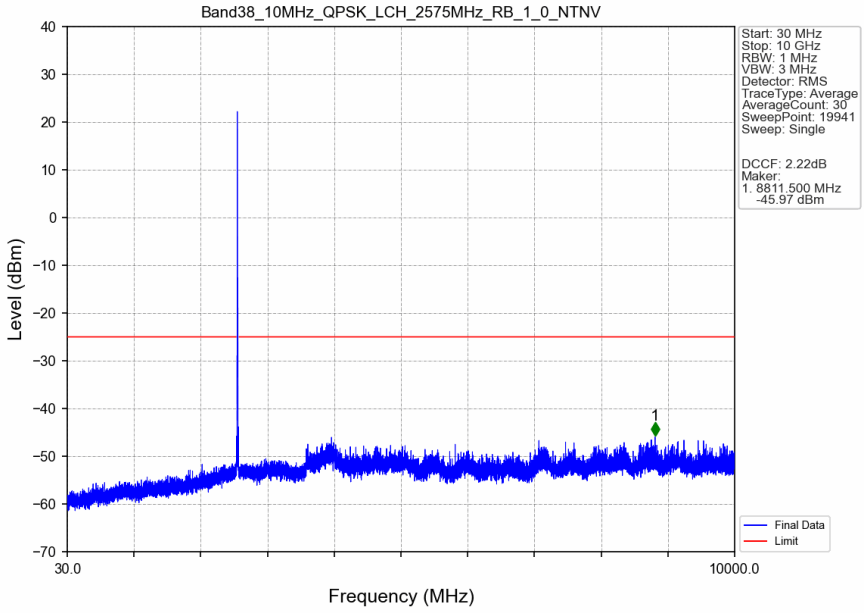
## 5.2.2 B38_10MHz

Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV

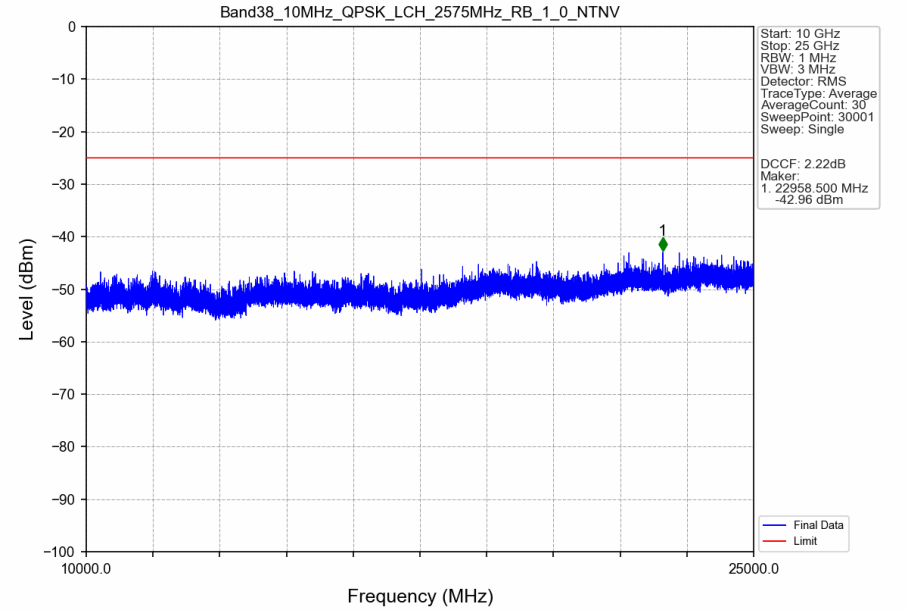



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2485 | 2490.5 | 1 | CHP | 1 | 2488.865 | -53.58 | -25 | Pass |
| 2490.5 | 2496 | 1 | CHP | 2 | 2494.810 | -53.62 | -13 | Pass |
| 2496 | 2559.075 | 1 | CHP | 3 | 2559.015 | -47.62 | -25 | Pass |
| 2559.075 | 2565 | 1 | CHP | 4 | 2564.930 | -41.01 | -13 | Pass |
| 2565 | 2569 | 1 | CHP | 5 | 2568.475 | -31.65 | -10 | Pass |
| 2569 | 2570 | 0.02 | CHP | 6 | 2569.995 | -30.30 | -10 | Pass |
| 2570 | 2580 | 0.02 | CHP | / | / | / | / | / |

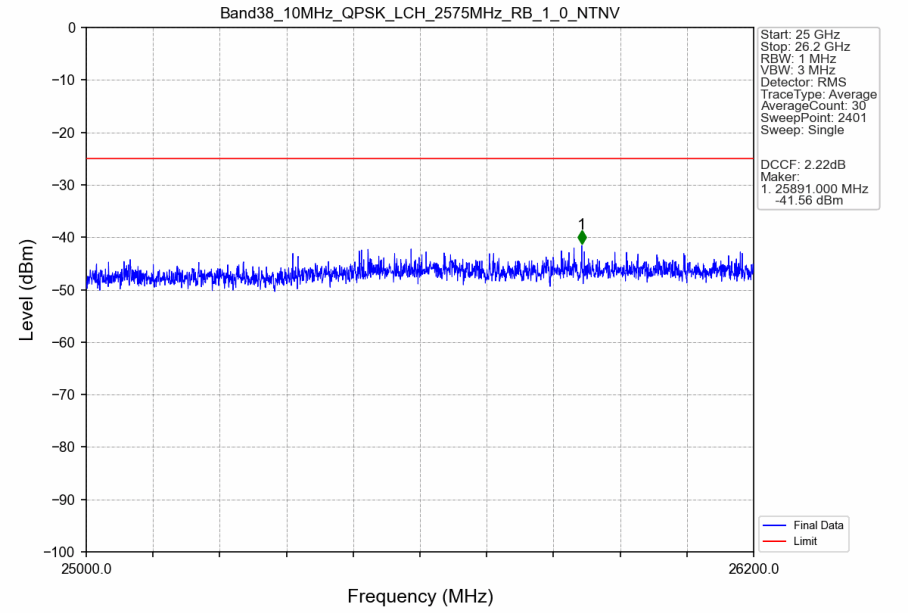
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



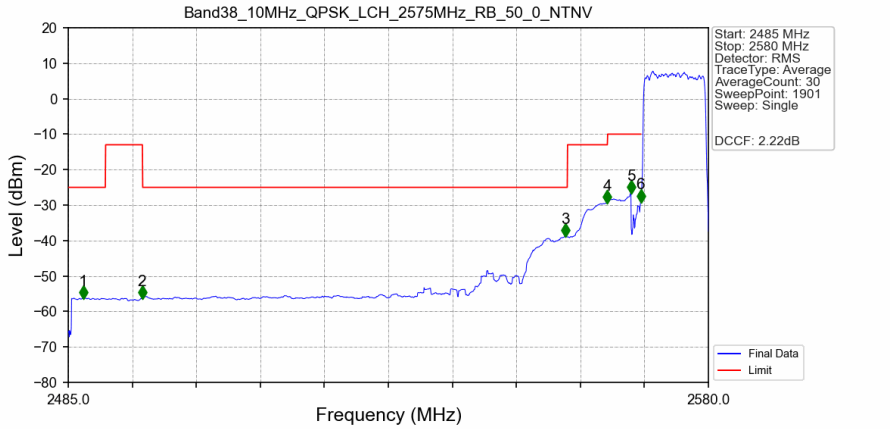
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV




Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV

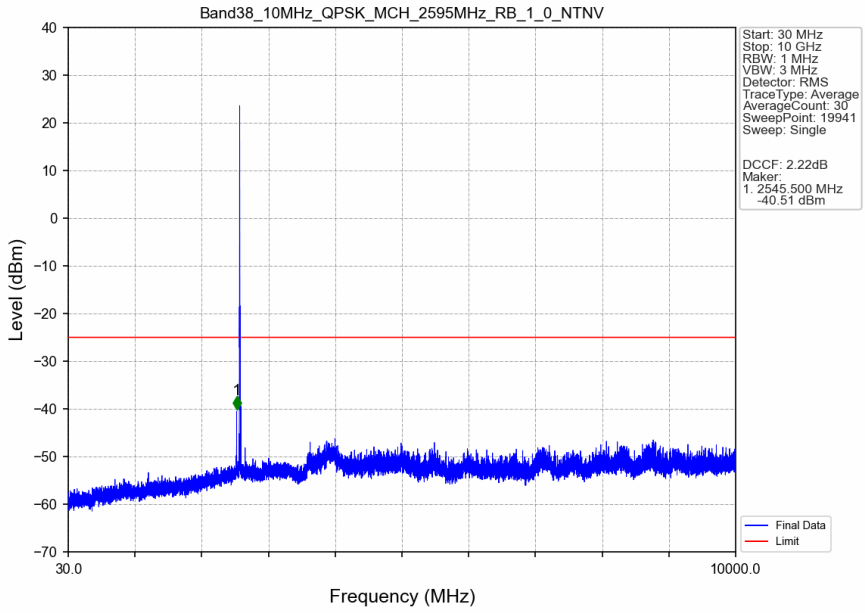


## Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

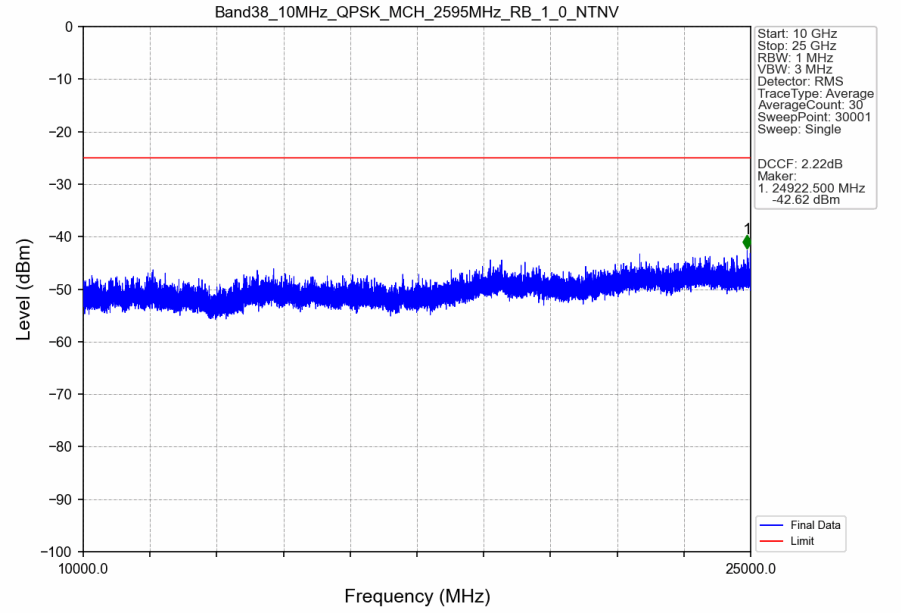



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2485 | 2490.5 | 1 | CHP | 1 | 2487.200 | -56.17 | -25 | Pass |
| 2490.5 | 2496 | 1 | CHP | 2 | 2495.950 | -56.22 | -13 | Pass |
| 2496 | 2559.075 | 1 | CHP | 3 | 2558.750 | -38.64 | -25 | Pass |
| 2559.075 | 2565 | 1 | CHP | 4 | 2565.000 | -29.22 | -13 | Pass |
| 2565 | 2569 | 1 | CHP | 5 | 2568.500 | -26.46 | -10 | Pass |
| 2569 | 2570 | 0.219 | CHP | 6 | 2569.950 | -28.93 | -10 | Pass |
| 2570 | 2580 | 0.219 | CHP | / | / | / | / | / |

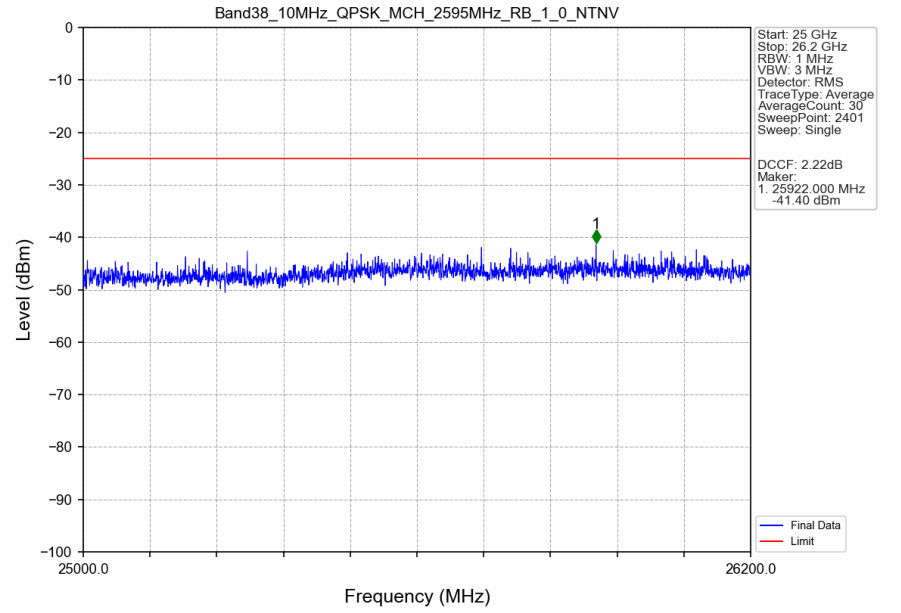
## Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



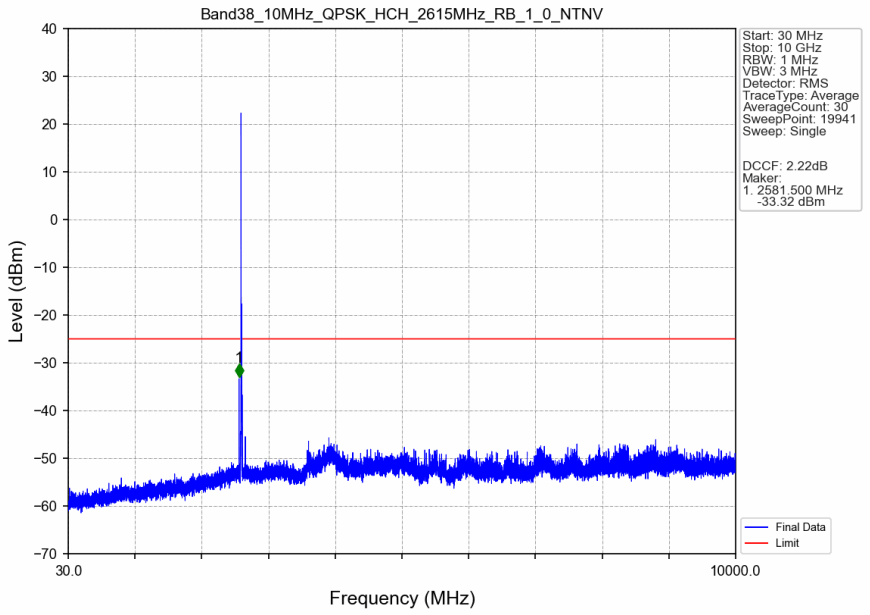
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



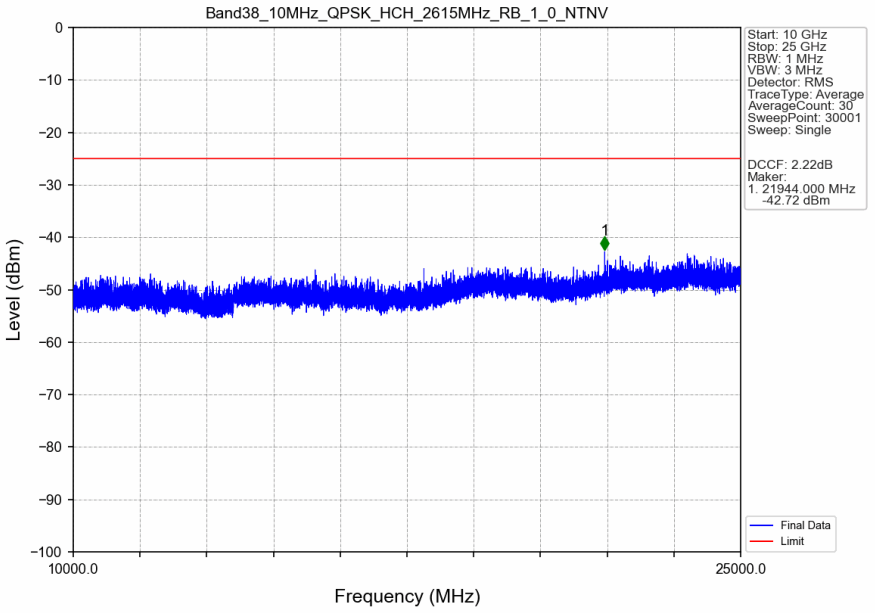

Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



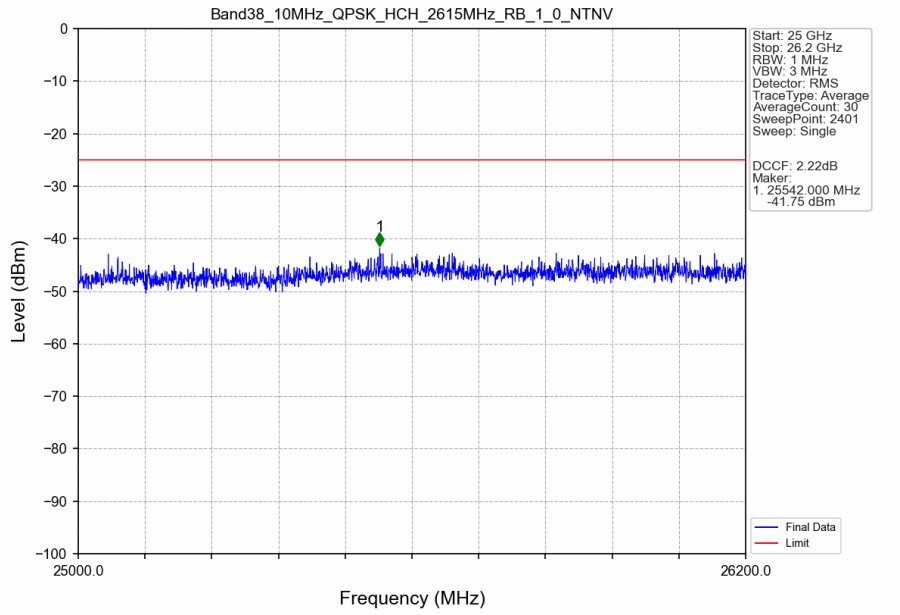
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



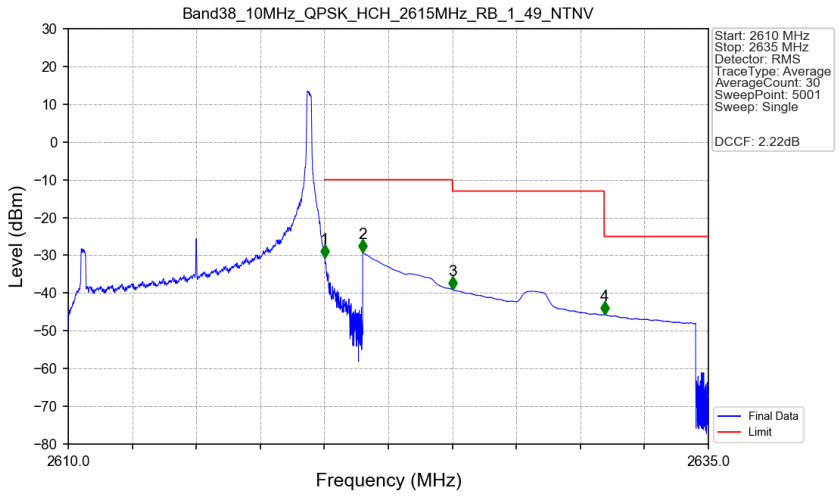

Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV

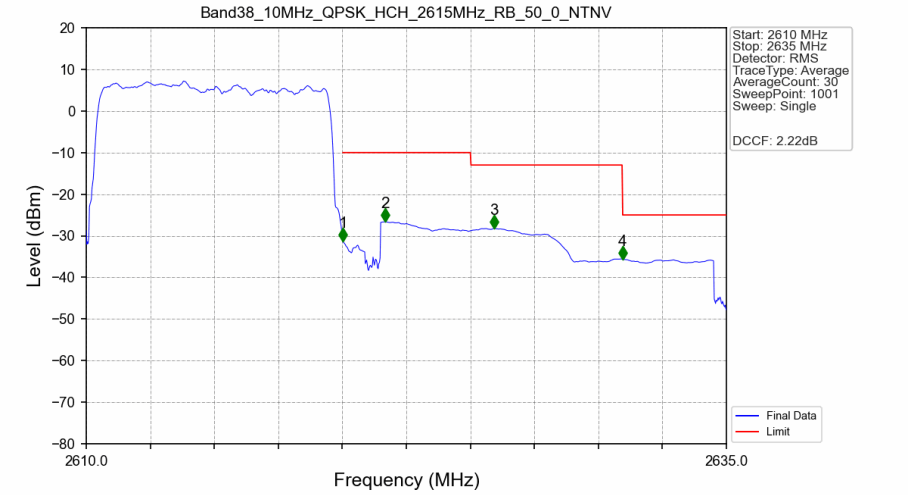



Band38_10MHz_QPSK_HCH_2615MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2610 | 2620 | 0.02 | CHP | / | / | / | / | / |
| 2620 | 2621 | 0.02 | CHP | 1 | 2620.005 | -30.66 | -10 | Pass |
| 2621 | 2625 | 1 | CHP | 2 | 2621.505 | -29.33 | -10 | Pass |
| 2625 | 2630.925 | 1 | CHP | 3 | 2625.005 | -39.04 | -13 | Pass |
| 2630.925 | 2635 | 1 | CHP | 4 | 2630.945 | -45.68 | -25 | Pass |

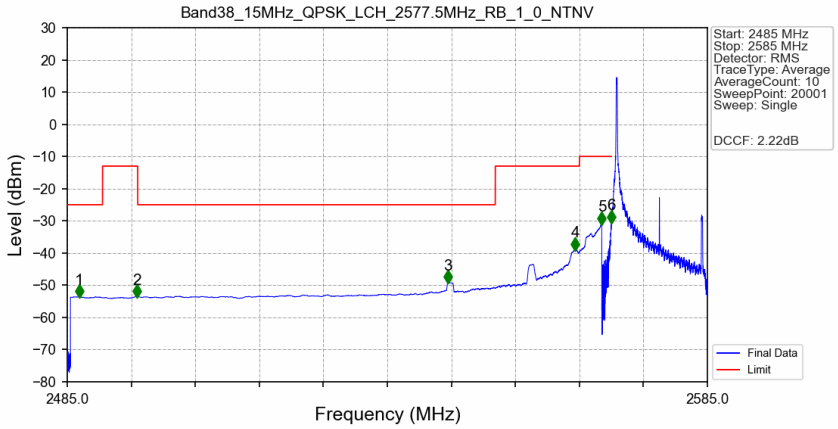
## Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2610 | 2620 | 0.219 | CHP | / | / | / | / | / |
| 2620 | 2621 | 0.219 | CHP | 1 | 2620.025 | -31.38 | -10 | Pass |
| 2621 | 2625 | 1 | CHP | 2 | 2621.675 | -26.65 | -10 | Pass |
| 2625 | 2630.925 | 1 | CHP | 3 | 2625.925 | -28.25 | -13 | Pass |
| 2630.925 | 2635 | 1 | CHP | 4 | 2630.950 | -35.63 | -25 | Pass |

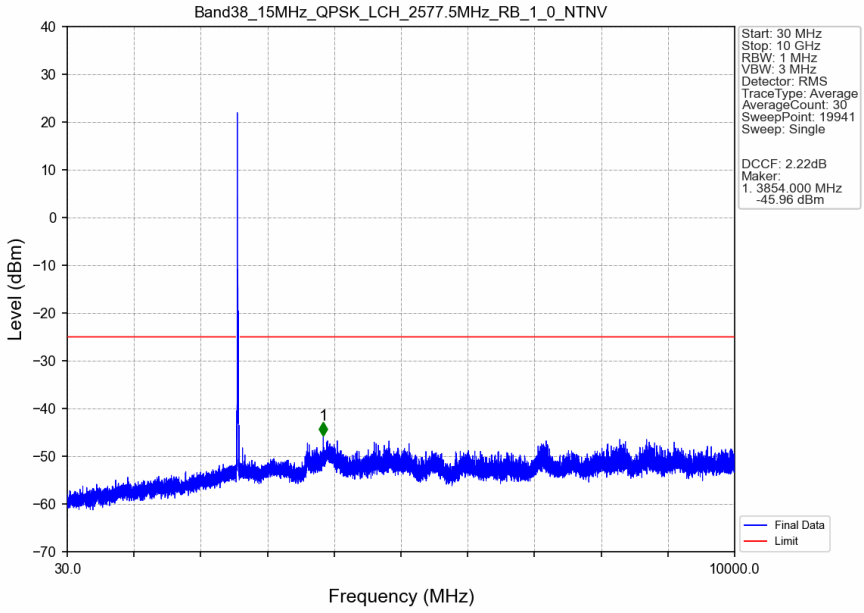
## 5.2.3 B38_15MHz

Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

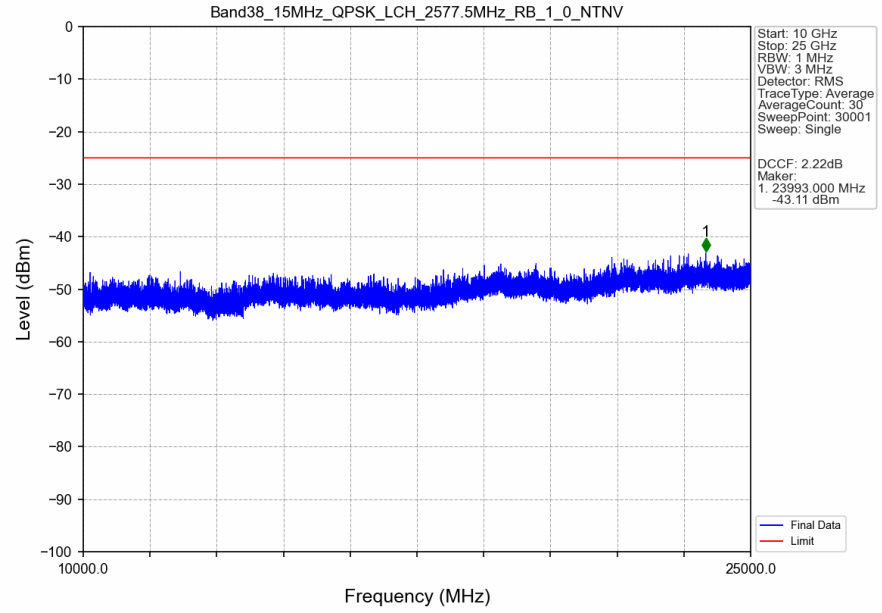



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2485 | 2490.5 | 1 | CHP | 1 | 2486.870 | -53.54 | -25 | Pass |
| 2490.5 | 2496 | 1 | CHP | 2 | 2495.905 | -53.53 | -13 | Pass |
| 2496 | 2551.863 | 1 | CHP | 3 | 2544.415 | -49.12 | -25 | Pass |
| 2551.863 | 2565 | 1 | CHP | 4 | 2564.355 | -38.86 | -13 | Pass |
| 2565 | 2569 | 1 | CHP | 5 | 2568.500 | -30.87 | -10 | Pass |
| 2569 | 2570 | 0.02 | CHP | 6 | 2569.995 | -30.43 | -10 | Pass |
| 2570 | 2585 | 0.02 | CHP | / | / | / | / | / |

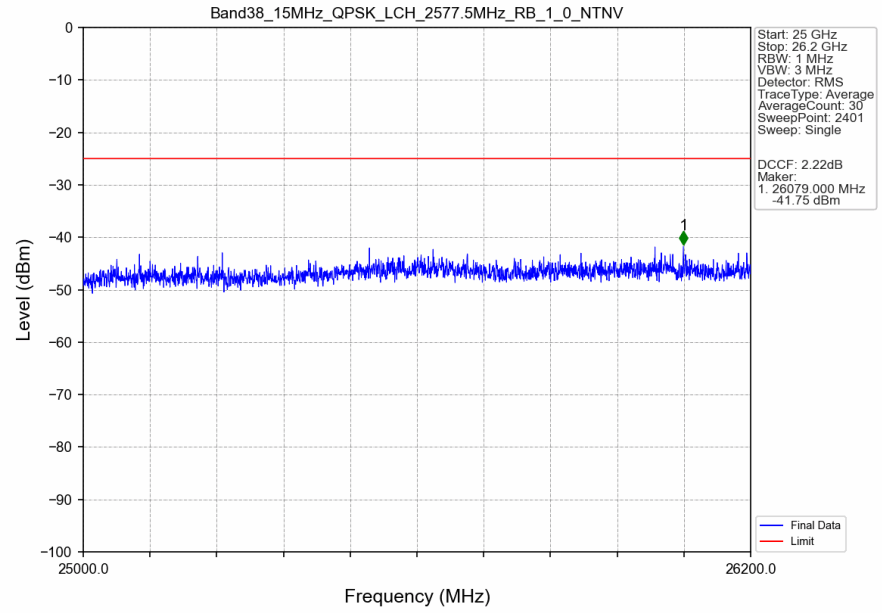
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



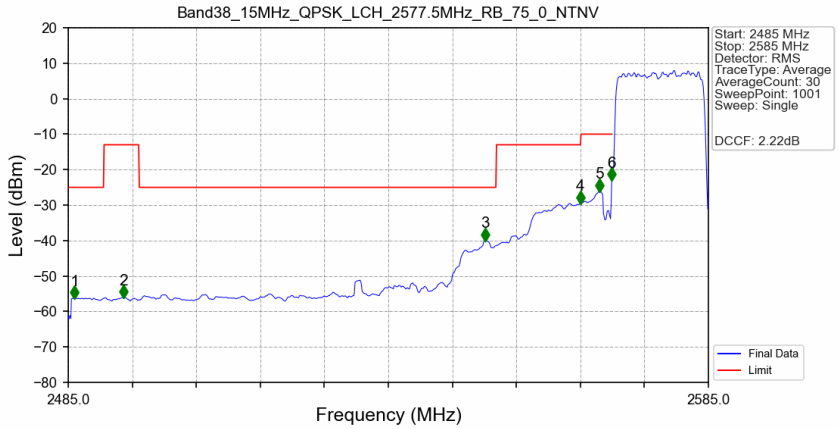
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV




Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

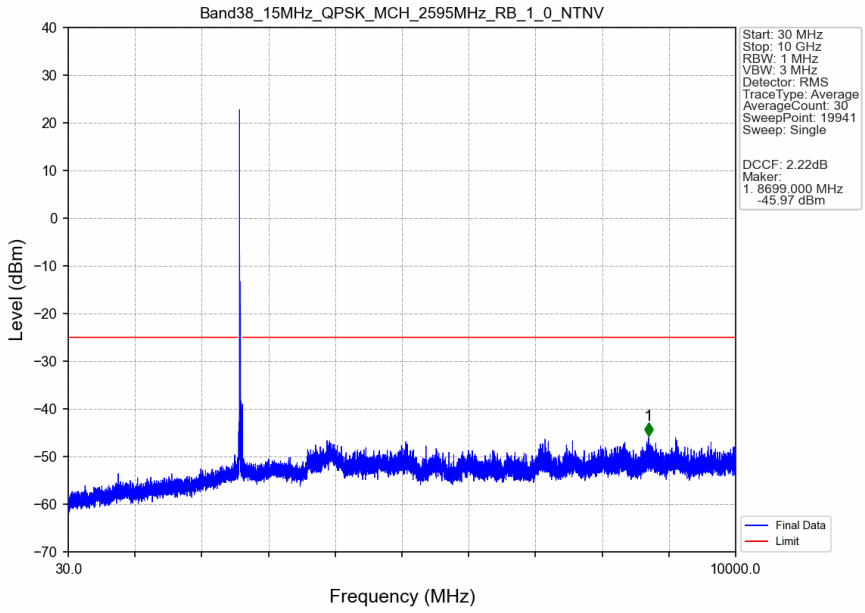


## Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV

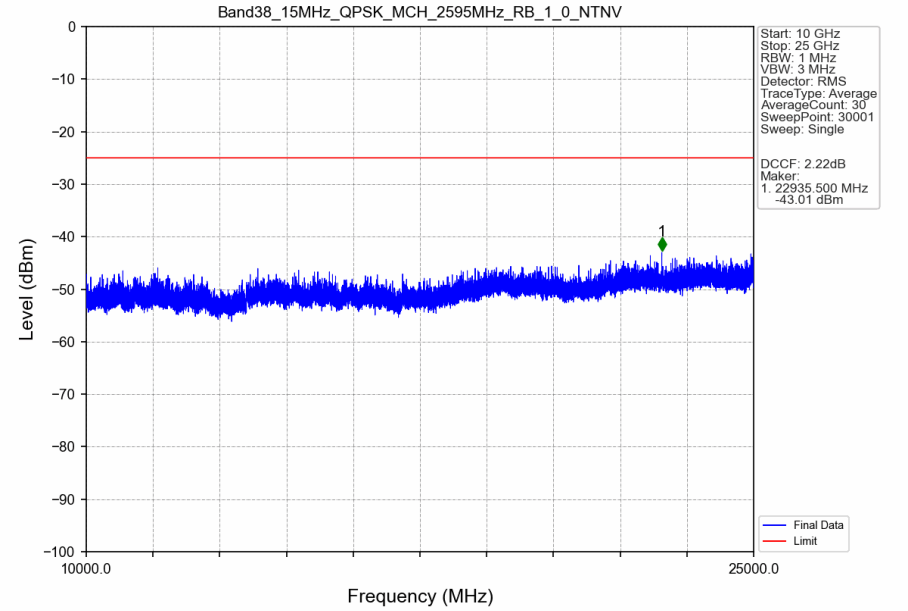



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2485 | 2490.5 | 1 | CHP | 1 | 2486.000 | -56.24 | -25 | Pass |
| 2490.5 | 2496 | 1 | CHP | 2 | 2493.600 | -55.90 | -13 | Pass |
| 2496 | 2551.863 | 1 | CHP | 3 | 2550.100 | -39.85 | -25 | Pass |
| 2551.863 | 2565 | 1 | CHP | 4 | 2565.000 | -29.37 | -13 | Pass |
| 2565 | 2569 | 1 | CHP | 5 | 2568.000 | -25.98 | -10 | Pass |
| 2569 | 2570 | 0.363 | CHP | 6 | 2569.900 | -22.91 | -10 | Pass |
| 2570 | 2585 | 0.363 | CHP | / | / | / | / | / |

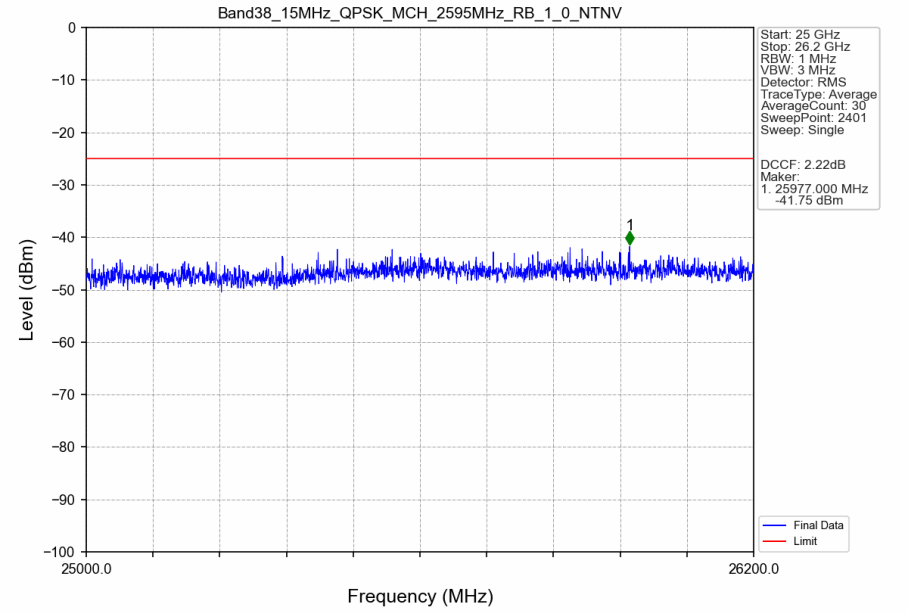
## Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



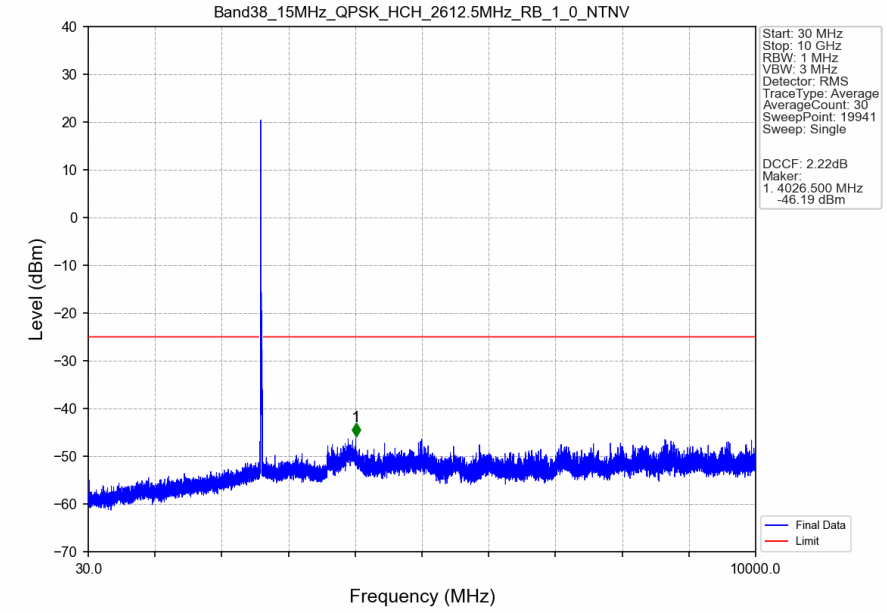
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



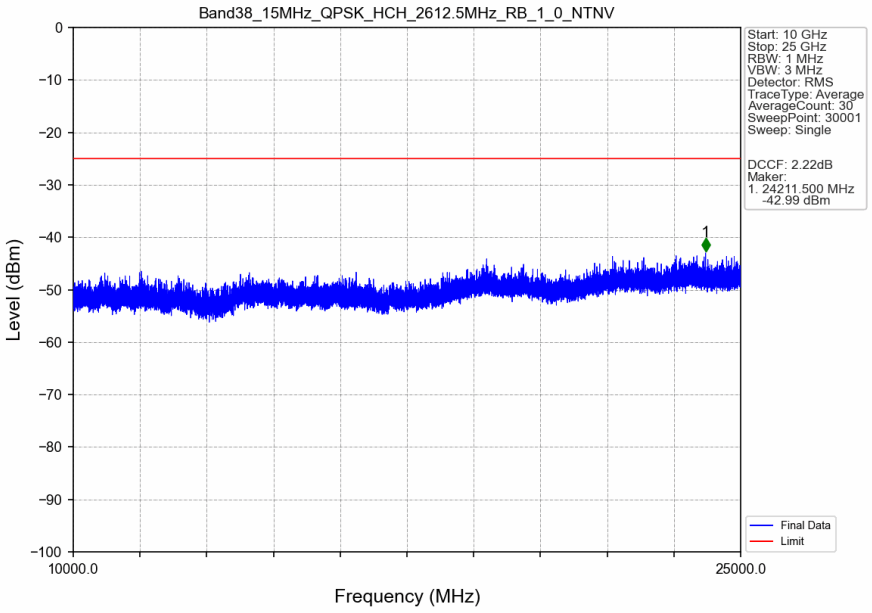

Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



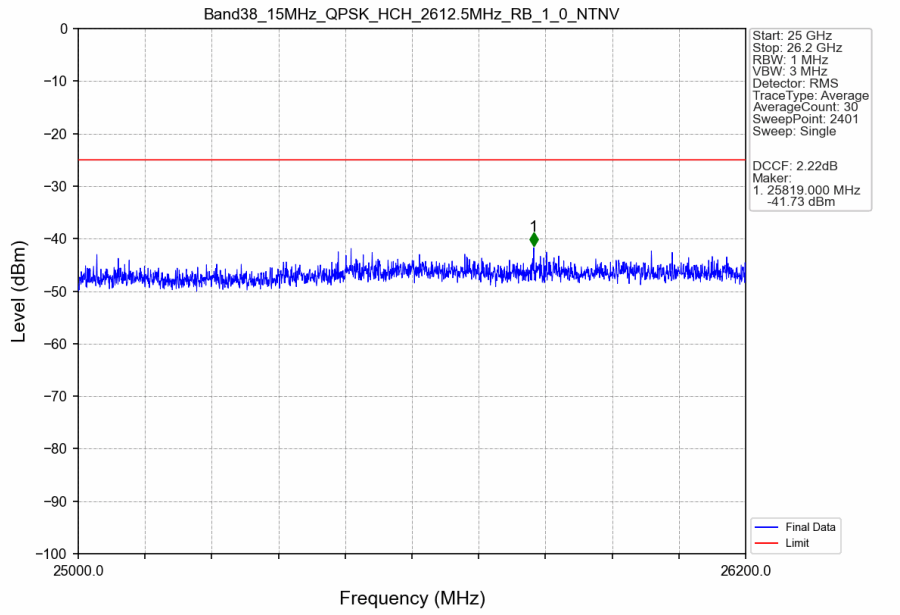
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



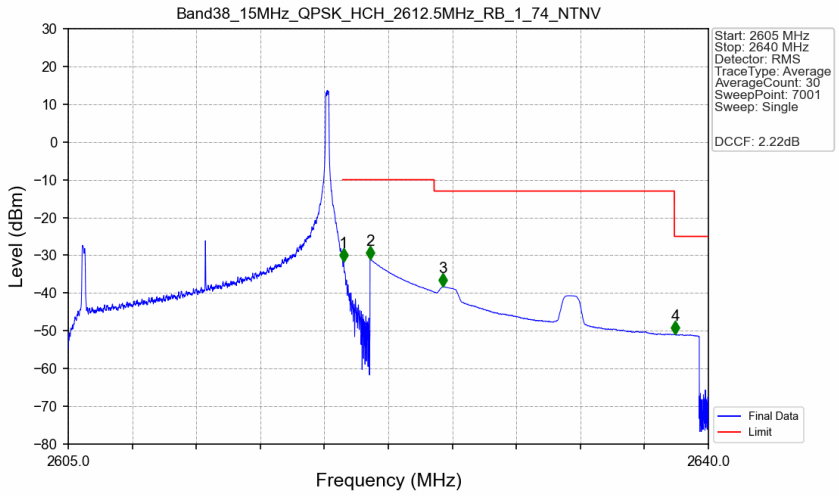

Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV

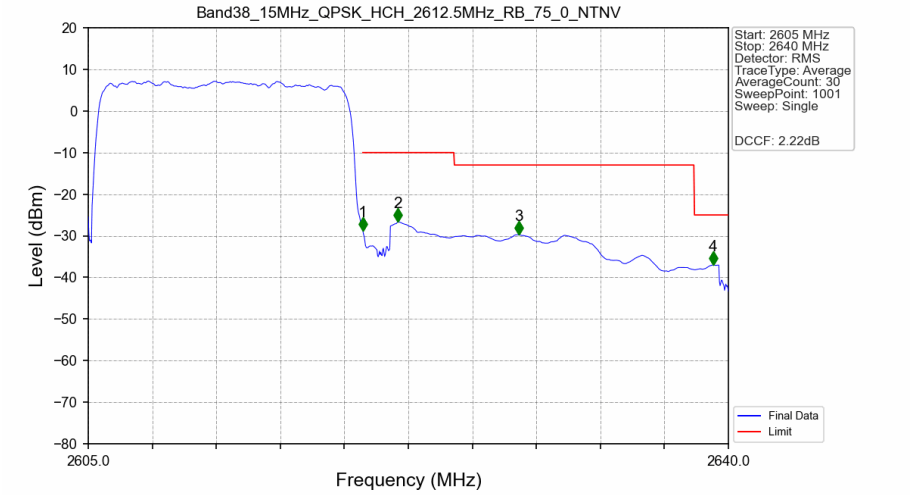



Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_74_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2605 | 2620 | 0.02 | CHP | / | / | / | / | / |
| 2620 | 2621 | 0.02 | CHP | 1 | 2620.050 | -31.73 | -10 | Pass |
| 2621 | 2625 | 1 | CHP | 2 | 2621.500 | -31.01 | -10 | Pass |
| 2625 | 2638.137 | 1 | CHP | 3 | 2625.480 | -38.33 | -13 | Pass |
| 2638.137 | 2640 | 1 | CHP | 4 | 2638.185 | -50.89 | -25 | Pass |

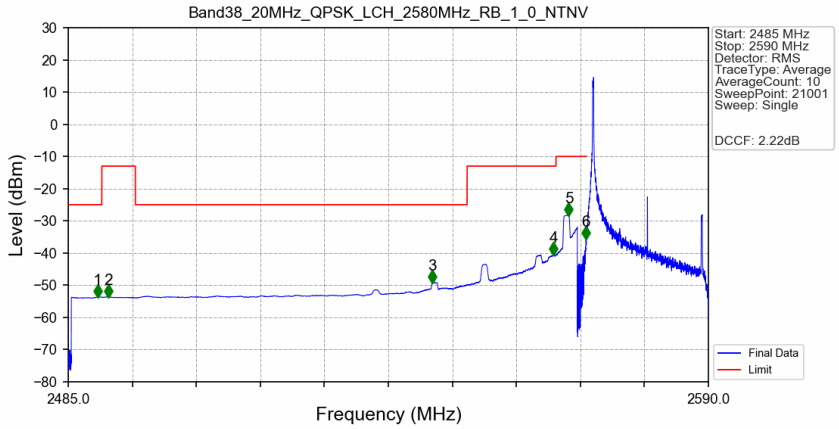
## Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2605 | 2620 | 0.363 | CHP | / | / | / | / | / |
| 2620 | 2621 | 0.363 | CHP | 1 | 2620.015 | -28.79 | -10 | Pass |
| 2621 | 2625 | 1 | CHP | 2 | 2621.940 | -26.66 | -10 | Pass |
| 2625 | 2638.137 | 1 | CHP | 3 | 2628.555 | -29.74 | -13 | Pass |
| 2638.137 | 2640 | 1 | CHP | 4 | 2639.160 | -37.02 | -25 | Pass |

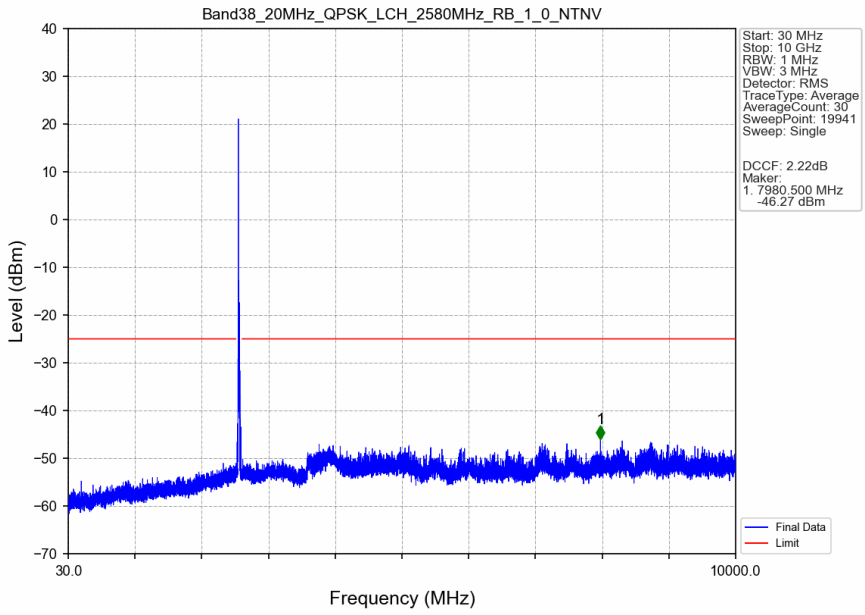
## 5.2.4 B38_20MHz

Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

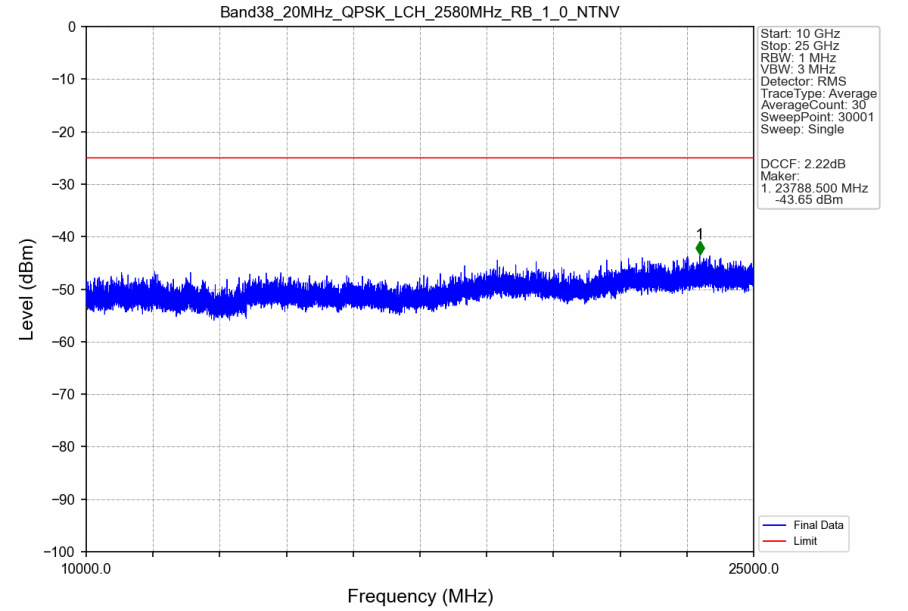



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2485 | 2490.5 | 1 | CHP | 1 | 2489.835 | -53.59 | -25 | Pass |
| 2490.5 | 2496 | 1 | CHP | 2 | 2491.615 | -53.58 | -13 | Pass |
| 2496 | 2550.416 | 1 | CHP | 3 | 2544.720 | -49.13 | -25 | Pass |
| 2550.416 | 2565 | 1 | CHP | 4 | 2564.565 | -40.45 | -13 | Pass |
| 2565 | 2569 | 1 | CHP | 5 | 2567.100 | -28.23 | -10 | Pass |
| 2569 | 2570 | 0.02 | CHP | 6 | 2569.920 | -35.41 | -10 | Pass |
| 2570 | 2590 | 0.02 | CHP | / | / | / | / | / |

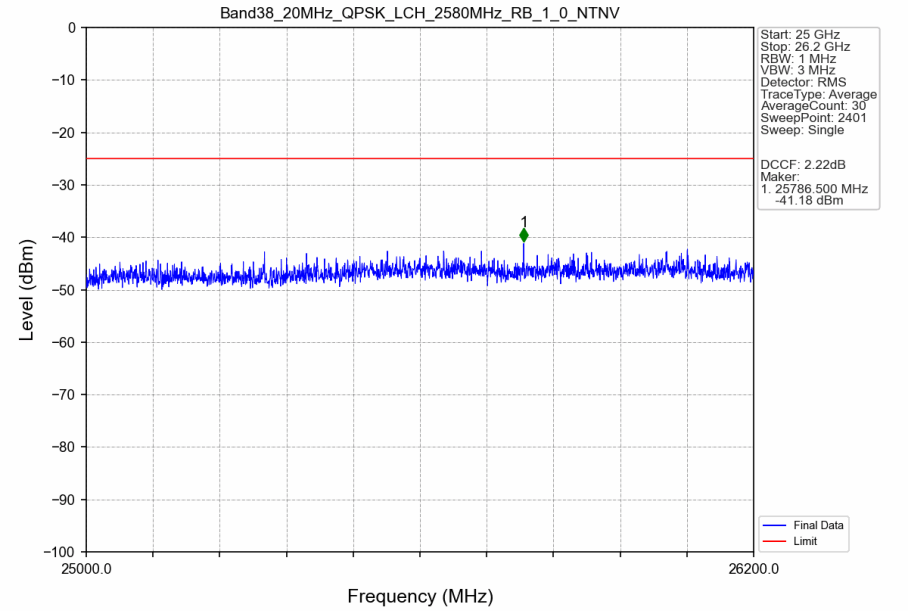
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



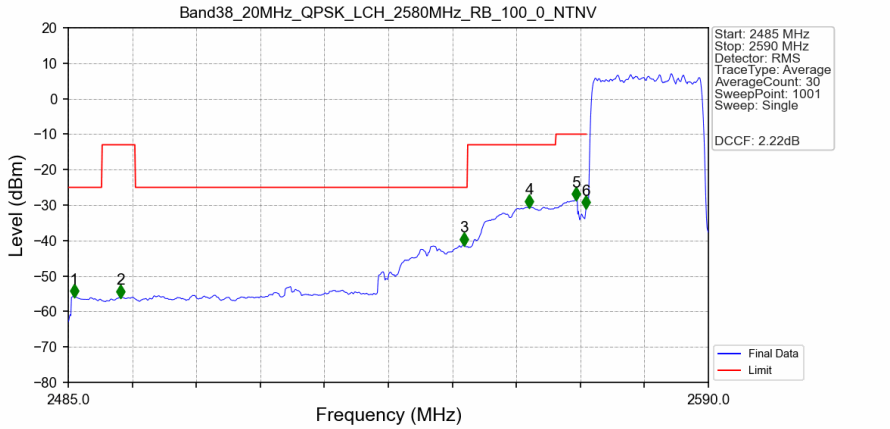
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV




Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

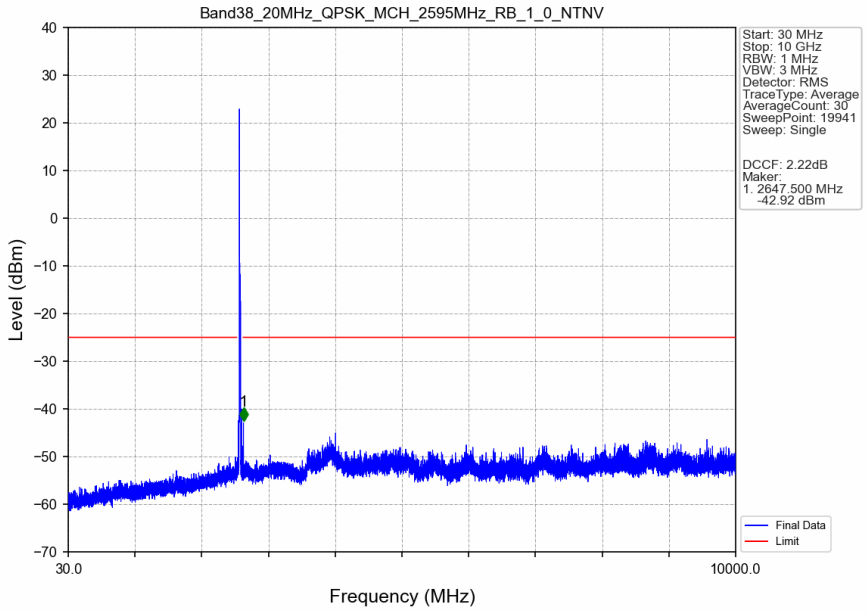


## Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV

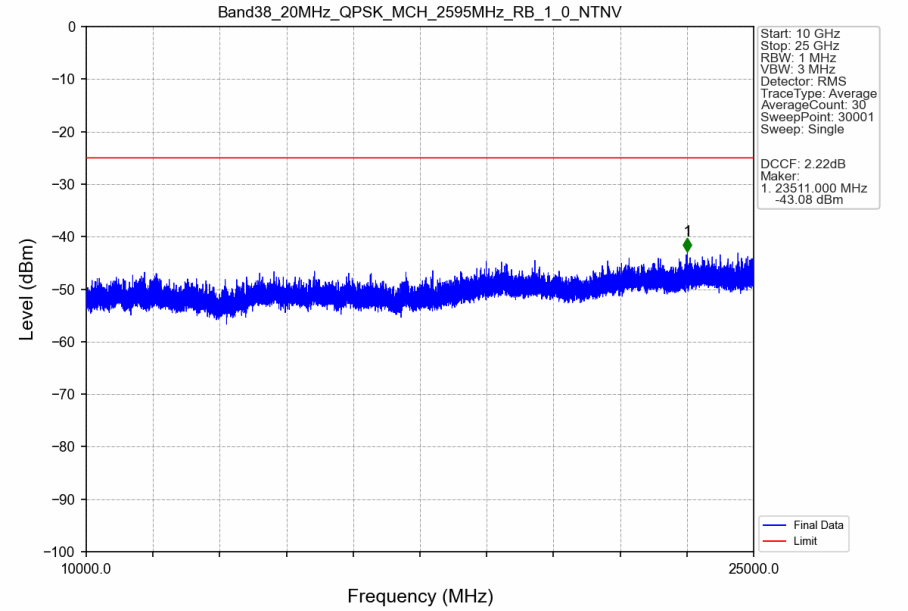



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2485 | 2490.5 | 1 | CHP | 1 | 2485.945 | -55.73 | -25 | Pass |
| 2490.5 | 2496 | 1 | CHP | 2 | 2493.610 | -55.86 | -13 | Pass |
| 2496 | 2550.416 | 1 | CHP | 3 | 2549.890 | -41.11 | -25 | Pass |
| 2550.416 | 2565 | 1 | CHP | 4 | 2560.600 | -30.47 | -13 | Pass |
| 2565 | 2569 | 1 | CHP | 5 | 2568.265 | -28.36 | -10 | Pass |
| 2569 | 2570 | 0.392 | CHP | 6 | 2569.945 | -30.72 | -10 | Pass |
| 2570 | 2590 | 0.392 | CHP | / | / | / | / | / |

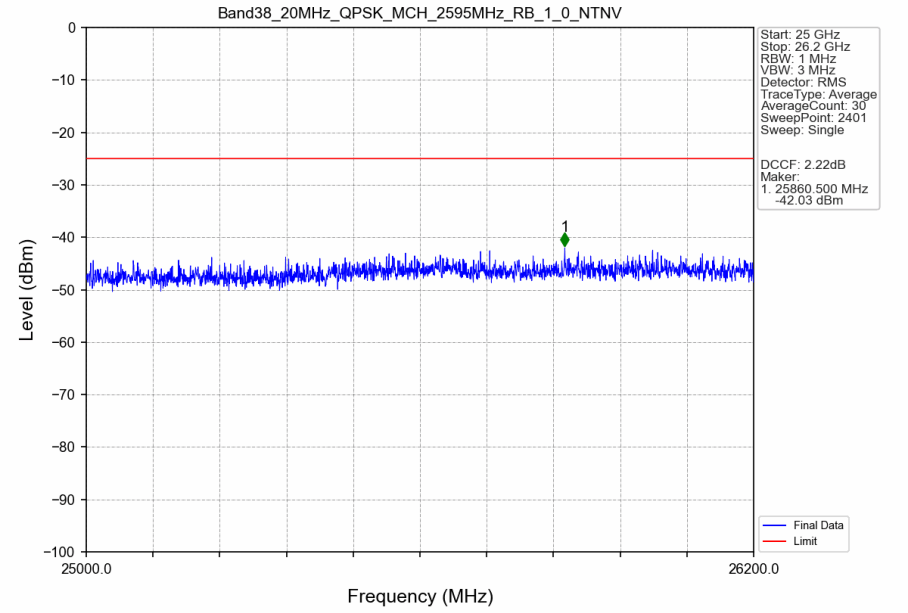
## Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



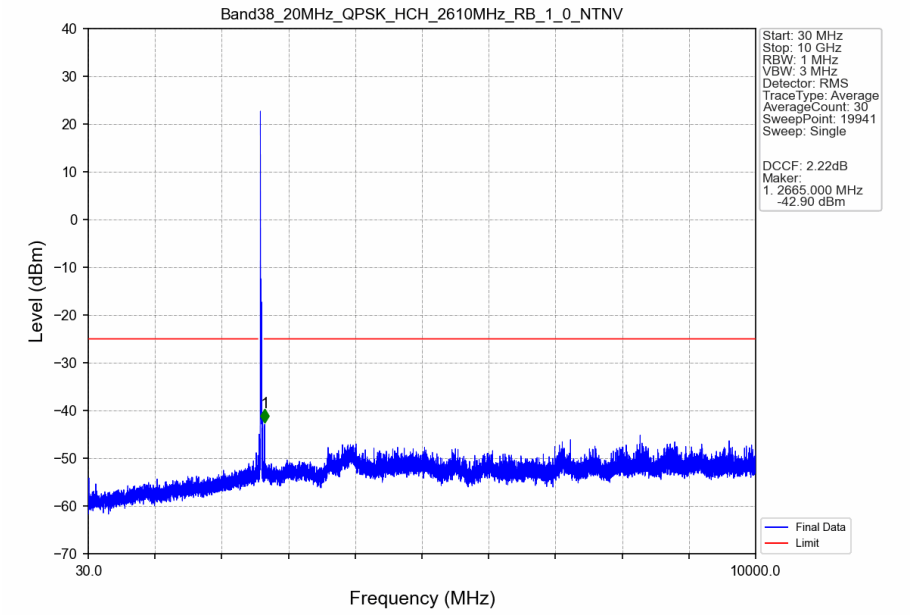
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



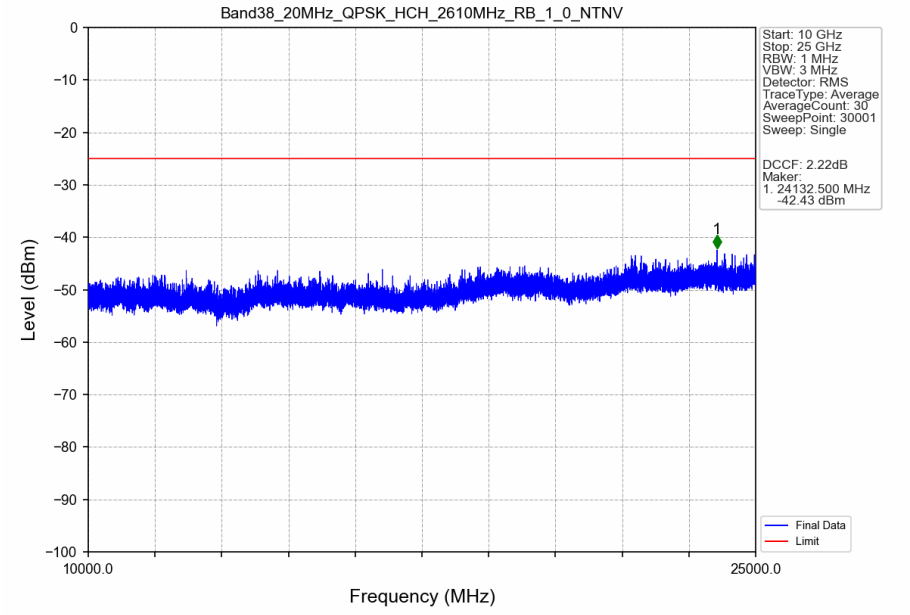

Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



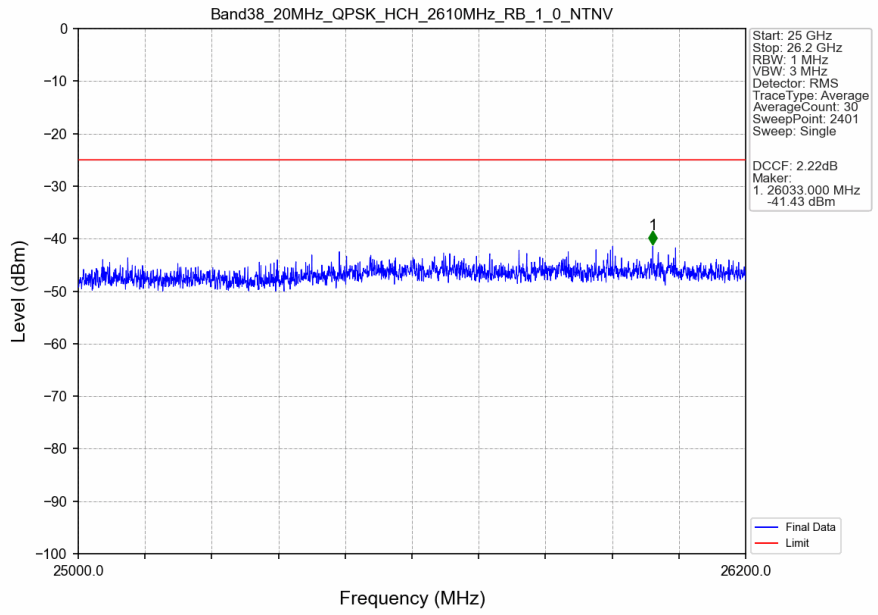
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



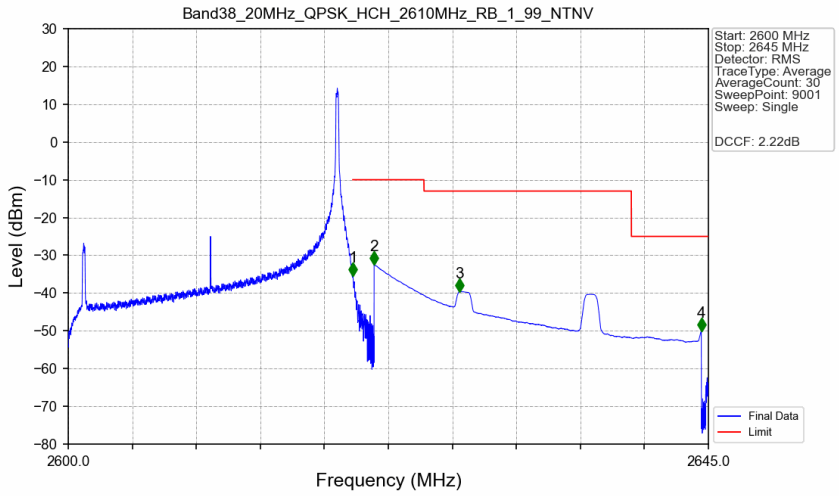

Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV

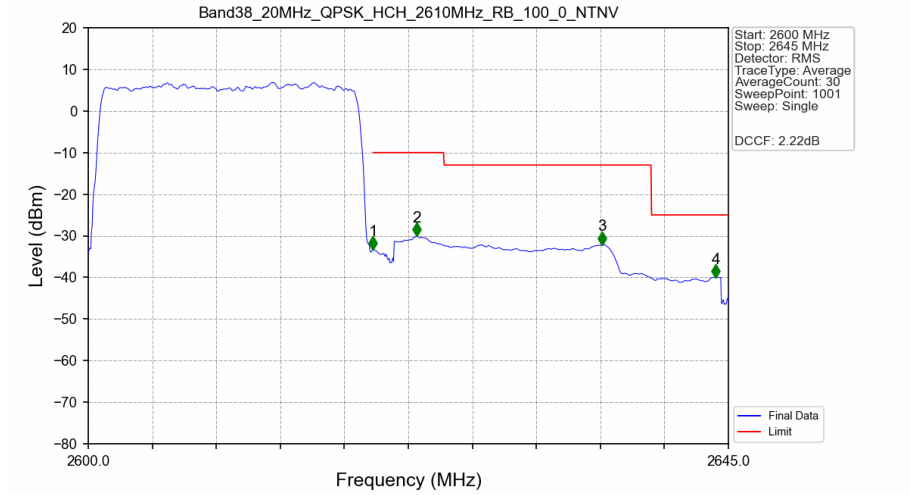



Band38_20MHz_QPSK_HCH_2610MHz_RB_1_99_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2600 | 2620 | 0.02 | CHP | / | / | / | / | / |
| 2620 | 2621 | 0.02 | CHP | 1 | 2620.010 | -35.40 | -10 | Pass |
| 2621 | 2625 | 1 | CHP | 2 | 2621.500 | -32.51 | -10 | Pass |
| 2625 | 2639.584 | 1 | CHP | 3 | 2627.520 | -39.62 | -13 | Pass |
| 2639.584 | 2645 | 1 | CHP | 4 | 2644.495 | -50.12 | -25 | Pass |

Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2600 | 2620 | 0.392 | CHP | / | / | / | / | / |
| 2620 | 2621 | 0.392 | CHP | 1 | 2620.025 | -33.27 | -10 | Pass |
| 2621 | 2625 | 1 | CHP | 2 | 2623.085 | -30.11 | -10 | Pass |
| 2625 | 2639.584 | 1 | CHP | 3 | 2636.135 | -32.13 | -13 | Pass |
| 2639.584 | 2645 | 1 | CHP | 4 | 2644.100 | -39.97 | -25 | Pass |

-The End-