# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B5_1.4MHz_ERP

### 1.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 824.7 | 1 | 0 | 14.76 | 0.50 | 13.11 | <=38.45 | Pass |
| | | | 2 | 15.01 | 0.50 | 13.36 | <=38.45 | Pass |
| | | | 5 | 14.87 | 0.50 | 13.22 | <=38.45 | Pass |
| | | 3 | 0 | 14.87 | 0.50 | 13.22 | <=38.45 | Pass |
| | | | 2 | 14.99 | 0.50 | 13.34 | <=38.45 | Pass |
| | | | 3 | 14.94 | 0.50 | 13.29 | <=38.45 | Pass |
| | | 6 | 0 | 13.93 | 0.50 | 12.28 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 20.43 | 0.50 | 18.78 | <=38.45 | Pass |
| | | | 2 | 20.42 | 0.50 | 18.77 | <=38.45 | Pass |
| | | | 5 | 20.35 | 0.50 | 18.70 | <=38.45 | Pass |
| | | 3 | 0 | 20.45 | 0.50 | 18.80 | <=38.45 | Pass |
| | | | 2 | 20.49 | 0.50 | 18.84 | <=38.45 | Pass |
| | | | 3 | 20.45 | 0.50 | 18.80 | <=38.45 | Pass |
| | | 6 | 0 | 20.43 | 0.50 | 18.78 | <=38.45 | Pass |
| | 848.3 | 1 | 0 | 21.32 | 0.50 | 19.67 | <=38.45 | Pass |
| | | | 2 | 21.44 | 0.50 | 19.79 | <=38.45 | Pass |
| | | | 5 | 21.39 | 0.50 | 19.74 | <=38.45 | Pass |
| | | 3 | 0 | 21.29 | 0.50 | 19.64 | <=38.45 | Pass |
| | | | 2 | 21.33 | 0.50 | 19.68 | <=38.45 | Pass |
| | | | 3 | 21.34 | 0.50 | 19.69 | <=38.45 | Pass |
| | | 6 | 0 | 20.34 | 0.50 | 18.69 | <=38.45 | Pass |
| 16QAM | 824.7 | 1 | 0 | 13.75 | 0.50 | 12.10 | <=38.45 | Pass |
| | | | 2 | 14.02 | 0.50 | 12.37 | <=38.45 | Pass |
| | | | 5 | 13.91 | 0.50 | 12.26 | <=38.45 | Pass |
| | | 3 | 0 | 18.61 | 0.50 | 16.96 | <=38.45 | Pass |
| | | | 2 | 18.61 | 0.50 | 16.96 | <=38.45 | Pass |
| | | | 3 | 18.58 | 0.50 | 16.93 | <=38.45 | Pass |
| | | 6 | 0 | 16.64 | 0.50 | 14.99 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 20.40 | 0.50 | 18.75 | <=38.45 | Pass |
| | | | 2 | 20.38 | 0.50 | 18.73 | <=38.45 | Pass |
| | | | 5 | 20.47 | 0.50 | 18.82 | <=38.45 | Pass |
| | | 3 | 0 | 20.46 | 0.50 | 18.81 | <=38.45 | Pass |
| | | | 2 | 20.45 | 0.50 | 18.80 | <=38.45 | Pass |
| | | | 3 | 20.43 | 0.50 | 18.78 | <=38.45 | Pass |
| | | 6 | 0 | 20.42 | 0.50 | 18.77 | <=38.45 | Pass |
| | 848.3 | 1 | 0 | 19.79 | 0.50 | 18.14 | <=38.45 | Pass |
| | | | 2 | 19.87 | 0.50 | 18.22 | <=38.45 | Pass |
| | | | 5 | 19.89 | 0.50 | 18.24 | <=38.45 | Pass |
| | | 3 | 0 | 19.99 | 0.50 | 18.34 | <=38.45 | Pass |
| | | | 2 | 20.08 | 0.50 | 18.43 | <=38.45 | Pass |
| | | | 3 | 20.08 | 0.50 | 18.43 | <=38.45 | Pass |
| | | 6 | 0 | 19.41 | 0.50 | 17.76 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.2 B5_3MHz_ERP

### 1.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 825.5 | 1 | 0 | 20.66 | 0.50 | 19.01 | <=38.45 | Pass |
| | | | 7 | 20.55 | 0.50 | 18.90 | <=38.45 | Pass |
| | | | 14 | 20.74 | 0.50 | 19.09 | <=38.45 | Pass |
| | | 8 | 0 | 20.70 | 0.50 | 19.05 | <=38.45 | Pass |
| | | | 4 | 20.66 | 0.50 | 19.01 | <=38.45 | Pass |
| | | | 7 | 20.64 | 0.50 | 18.99 | <=38.45 | Pass |
| | | 15 | 0 | 20.61 | 0.50 | 18.96 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 20.52 | 0.50 | 18.87 | <=38.45 | Pass |
| | | | 7 | 20.49 | 0.50 | 18.84 | <=38.45 | Pass |
| | | | 14 | 18.44 | 0.50 | 16.79 | <=38.45 | Pass |
| | | 8 | 0 | 18.35 | 0.50 | 16.70 | <=38.45 | Pass |
| | | | 4 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | | | 7 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | | 15 | 0 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | 847.5 | 1 | 0 | 18.28 | 0.50 | 16.63 | <=38.45 | Pass |
| | | | 7 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | | | 14 | 18.35 | 0.50 | 16.70 | <=38.45 | Pass |
| | | 8 | 0 | 18.35 | 0.50 | 16.70 | <=38.45 | Pass |
| | | | 4 | 18.34 | 0.50 | 16.69 | <=38.45 | Pass |
| | | | 7 | 18.33 | 0.50 | 16.68 | <=38.45 | Pass |
| | | 15 | 0 | 18.32 | 0.50 | 16.67 | <=38.45 | Pass |
| 16QAM | 825.5 | 1 | 0 | 20.59 | 0.50 | 18.94 | <=38.45 | Pass |
| | | | 7 | 20.57 | 0.50 | 18.92 | <=38.45 | Pass |
| | | | 14 | 20.56 | 0.50 | 18.91 | <=38.45 | Pass |
| | | 8 | 0 | 20.54 | 0.50 | 18.89 | <=38.45 | Pass |
| | | | 4 | 20.77 | 0.50 | 19.12 | <=38.45 | Pass |
| | | | 7 | 20.76 | 0.50 | 19.11 | <=38.45 | Pass |
| | | 15 | 0 | 20.74 | 0.50 | 19.09 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | | | 7 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | | | 14 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | | 8 | 0 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | | | 4 | 18.36 | 0.50 | 16.71 | <=38.45 | Pass |
| | | | 7 | 18.35 | 0.50 | 16.70 | <=38.45 | Pass |
| | | 15 | 0 | 18.35 | 0.50 | 16.70 | <=38.45 | Pass |
| | 847.5 | 1 | 0 | 15.51 | 0.50 | 13.86 | <=38.45 | Pass |
| | | | 7 | 15.53 | 0.50 | 13.88 | <=38.45 | Pass |
| | | | 14 | 15.55 | 0.50 | 13.90 | <=38.45 | Pass |
| | | 8 | 0 | 15.57 | 0.50 | 13.92 | <=38.45 | Pass |
| | | | 4 | 15.58 | 0.50 | 13.93 | <=38.45 | Pass |
| | | | 7 | 15.59 | 0.50 | 13.94 | <=38.45 | Pass |
| | | 15 | 0 | 15.59 | 0.50 | 13.94 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.3 B5_5MHz_ERP

### 1.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency | RB Allocation | Conducted Power | Gain | ERP (dBm) | Verdict |

| | (MHz) | Size | Offset | (dBm) | (dBi) | Result | Limit | |
|---|---|---|---|---|---|---|---|---|
| QPSK | 826.5 | 1 | 0 | 16.55 | 0.50 | 14.90 | <=38.45 | Pass |
| | | | 13 | 17.27 | 0.50 | 15.62 | <=38.45 | Pass |
| | | | 24 | 16.85 | 0.50 | 15.20 | <=38.45 | Pass |
| | | 12 | 0 | 15.94 | 0.50 | 14.29 | <=38.45 | Pass |
| | | | 6 | 16.21 | 0.50 | 14.56 | <=38.45 | Pass |
| | | | 13 | 16.26 | 0.50 | 14.61 | <=38.45 | Pass |
| | | 25 | 0 | 16.51 | 0.50 | 14.86 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 21.39 | 0.50 | 19.74 | <=38.45 | Pass |
| | | | 13 | 21.23 | 0.50 | 19.58 | <=38.45 | Pass |
| | | | 24 | 21.24 | 0.50 | 19.59 | <=38.45 | Pass |
| | | 12 | 0 | 20.53 | 0.50 | 18.88 | <=38.45 | Pass |
| | | | 6 | 20.49 | 0.50 | 18.84 | <=38.45 | Pass |
| | | | 13 | 20.42 | 0.50 | 18.77 | <=38.45 | Pass |
| | | 25 | 0 | 18.35 | 0.50 | 16.70 | <=38.45 | Pass |
| | 846.5 | 1 | 0 | 19.32 | 0.50 | 17.67 | <=38.45 | Pass |
| | | | 13 | 19.36 | 0.50 | 17.71 | <=38.45 | Pass |
| | | | 24 | 19.37 | 0.50 | 17.72 | <=38.45 | Pass |
| | | 12 | 0 | 18.16 | 0.50 | 16.51 | <=38.45 | Pass |
| | | | 6 | 18.44 | 0.50 | 16.79 | <=38.45 | Pass |
| | | | 13 | 18.30 | 0.50 | 16.65 | <=38.45 | Pass |
| | | 25 | 0 | 18.42 | 0.50 | 16.77 | <=38.45 | Pass |
| 16QAM | 826.5 | 1 | 0 | 17.91 | 0.50 | 16.26 | <=38.45 | Pass |
| | | | 13 | 19.41 | 0.50 | 17.76 | <=38.45 | Pass |
| | | | 24 | 19.93 | 0.50 | 18.28 | <=38.45 | Pass |
| | | 12 | 0 | 19.86 | 0.50 | 18.21 | <=38.45 | Pass |
| | | | 6 | 19.75 | 0.50 | 18.10 | <=38.45 | Pass |
| | | | 13 | 19.71 | 0.50 | 18.06 | <=38.45 | Pass |
| | | 25 | 0 | 19.87 | 0.50 | 18.22 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 18.56 | 0.50 | 16.91 | <=38.45 | Pass |
| | | | 13 | 18.39 | 0.50 | 16.74 | <=38.45 | Pass |
| | | | 24 | 18.25 | 0.50 | 16.60 | <=38.45 | Pass |
| | | 12 | 0 | 16.70 | 0.50 | 15.05 | <=38.45 | Pass |
| | | | 6 | 16.75 | 0.50 | 15.10 | <=38.45 | Pass |
| | | | 13 | 16.49 | 0.50 | 14.84 | <=38.45 | Pass |
| | | 25 | 0 | 16.70 | 0.50 | 15.05 | <=38.45 | Pass |
| | 846.5 | 1 | 0 | 18.13 | 0.50 | 16.48 | <=38.45 | Pass |
| | | | 13 | 18.21 | 0.50 | 16.56 | <=38.45 | Pass |
| | | | 24 | 18.35 | 0.50 | 16.70 | <=38.45 | Pass |
| | | 12 | 0 | 14.74 | 0.50 | 13.09 | <=38.45 | Pass |
| | | | 6 | 14.76 | 0.50 | 13.11 | <=38.45 | Pass |
| | | | 13 | 14.55 | 0.50 | 12.90 | <=38.45 | Pass |
| | | 25 | 0 | 14.59 | 0.50 | 12.94 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.4 B5_10MHz_ERP

### 1.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 829 | 1 | 0 | 16.67 | 0.50 | 15.02 | <=38.45 | Pass |
| | | | 25 | 17.28 | 0.50 | 15.63 | <=38.45 | Pass |
| | | | 49 | 16.78 | 0.50 | 15.13 | <=38.45 | Pass |
| | | 25 | 0 | 16.28 | 0.50 | 14.63 | <=38.45 | Pass |
| | | | 13 | 16.40 | 0.50 | 14.75 | <=38.45 | Pass |
| | | | 25 | 16.31 | 0.50 | 14.66 | <=38.45 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 50 | 0 | 16.74 | 0.50 | 15.09 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 21.53 | 0.50 | 19.88 | <=38.45 | Pass |
| | | | 25 | 21.48 | 0.50 | 19.83 | <=38.45 | Pass |
| | | | 49 | 21.37 | 0.50 | 19.72 | <=38.45 | Pass |
| | | 25 | 0 | 20.37 | 0.50 | 18.72 | <=38.45 | Pass |
| | | | 13 | 20.39 | 0.50 | 18.74 | <=38.45 | Pass |
| | | | 25 | 20.30 | 0.50 | 18.65 | <=38.45 | Pass |
| | | 50 | 0 | 20.49 | 0.50 | 18.84 | <=38.45 | Pass |
| | 844 | 1 | 0 | 19.39 | 0.50 | 17.74 | <=38.45 | Pass |
| | | | 25 | 19.24 | 0.50 | 17.59 | <=38.45 | Pass |
| | | | 49 | 19.34 | 0.50 | 17.69 | <=38.45 | Pass |
| | | 25 | 0 | 18.27 | 0.50 | 16.62 | <=38.45 | Pass |
| | | | 13 | 18.16 | 0.50 | 16.51 | <=38.45 | Pass |
| | | | 25 | 18.28 | 0.50 | 16.63 | <=38.45 | Pass |
| | | 50 | 0 | 18.14 | 0.50 | 16.49 | <=38.45 | Pass |
| 16QAM | 829 | 1 | 0 | 18.55 | 0.50 | 16.90 | <=38.45 | Pass |
| | | | 25 | 18.48 | 0.50 | 16.83 | <=38.45 | Pass |
| | | | 49 | 18.31 | 0.50 | 16.66 | <=38.45 | Pass |
| | | 25 | 0 | 17.11 | 0.50 | 15.46 | <=38.45 | Pass |
| | | | 13 | 17.24 | 0.50 | 15.59 | <=38.45 | Pass |
| | | | 25 | 19.85 | 0.50 | 18.20 | <=38.45 | Pass |
| | | 50 | 0 | 19.73 | 0.50 | 18.08 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 20.66 | 0.50 | 19.01 | <=38.45 | Pass |
| | | | 25 | 20.55 | 0.50 | 18.90 | <=38.45 | Pass |
| | | | 49 | 18.40 | 0.50 | 16.75 | <=38.45 | Pass |
| | | 25 | 0 | 16.96 | 0.50 | 15.31 | <=38.45 | Pass |
| | | | 13 | 16.76 | 0.50 | 15.11 | <=38.45 | Pass |
| | | | 25 | 16.71 | 0.50 | 15.06 | <=38.45 | Pass |
| | | 50 | 0 | 16.89 | 0.50 | 15.24 | <=38.45 | Pass |
| | 844 | 1 | 0 | 18.58 | 0.50 | 16.93 | <=38.45 | Pass |
| | | | 25 | 18.57 | 0.50 | 16.92 | <=38.45 | Pass |
| | | | 49 | 18.80 | 0.50 | 17.15 | <=38.45 | Pass |
| | | 25 | 0 | 16.38 | 0.50 | 14.73 | <=38.45 | Pass |
| | | | 13 | 16.54 | 0.50 | 14.89 | <=38.45 | Pass |
| | | | 25 | 14.90 | 0.50 | 13.25 | <=38.45 | Pass |
| | | 50 | 0 | 14.62 | 0.50 | 12.97 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

# 2. Frequency Stability

## 2.1 B5_1.4MHz

### 2.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 824.7 | 6 | 0 | 20 | 3.27 | -22.860 | -0.0277 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -25.463 | -0.0309 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -28.710 | -0.0348 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -23.890 | -0.0290 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -19.255 | -0.0233 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -15.593 | -0.0189 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -12.646 | -0.0153 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -9.570 | -0.0116 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -7.539 | -0.0091 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -5.436 | -0.0066 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 50 | 3.85 | -3.834 | -0.0046 | -2.5 to 2.5 | Pass |
| | 836.5 | 6 | 0 | 20 | 3.27 | -1.388 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 2.832 | 0.0034 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 13.547 | 0.0162 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 22.388 | 0.0268 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 27.523 | 0.0329 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 31.457 | 0.0376 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 35.033 | 0.0419 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 36.049 | 0.0431 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 37.994 | 0.0454 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 38.595 | 0.0461 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 39.268 | 0.0469 | -2.5 to 2.5 | Pass |
| | 848.3 | 6 | 0 | 20 | 3.27 | -25.649 | -0.0302 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -34.089 | -0.0402 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -32.673 | -0.0385 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -30.012 | -0.0354 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -28.424 | -0.0335 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -27.852 | -0.0328 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -16.508 | -0.0195 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -16.451 | -0.0194 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -18.725 | -0.0221 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -20.771 | -0.0245 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -21.901 | -0.0258 | -2.5 to 2.5 | Pass |
| 16QAM | 824.7 | 6 | 0 | 20 | 3.27 | -3.018 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 9.184 | 0.0111 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 9.227 | 0.0112 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 7.310 | 0.0089 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 5.879 | 0.0071 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 8.097 | 0.0098 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 6.866 | 0.0083 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 4.306 | 0.0052 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 2.418 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.615 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
| | 836.5 | 6 | 0 | 20 | 3.27 | 39.797 | 0.0476 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 43.030 | 0.0514 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 43.573 | 0.0521 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 4.363 | 0.0052 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 3.834 | 0.0046 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.659 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.572 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.845 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -3.076 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -3.805 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -4.234 | -0.0051 | -2.5 to 2.5 | Pass |
| | 848.3 | 6 | 0 | 20 | 3.27 | -24.519 | -0.0289 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -23.875 | -0.0281 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -25.320 | -0.0298 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -25.792 | -0.0304 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -26.622 | -0.0314 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -27.194 | -0.0321 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -28.009 | -0.0330 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -28.124 | -0.0332 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -28.954 | -0.0341 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -27.566 | -0.0325 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -27.280 | -0.0322 | -2.5 to 2.5 | Pass |

## 2.2 B5_3MHz

## 2.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 825.5 | 15 | 0 | 20 | 3.27 | 8.683 | 0.0105 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 12.517 | 0.0152 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 16.665 | 0.0202 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 19.426 | 0.0235 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 18.353 | 0.0222 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 6.967 | 0.0084 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 10.214 | 0.0124 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 15.135 | 0.0183 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 19.484 | 0.0236 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 22.001 | 0.0267 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 24.276 | 0.0294 | -2.5 to 2.5 | Pass |
| | 836.5 | 15 | 0 | 20 | 3.27 | 3.133 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.303 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.901 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.887 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 3.533 | 0.0042 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 13.733 | 0.0164 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 13.132 | 0.0157 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 10.171 | 0.0122 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 8.025 | 0.0096 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 6.537 | 0.0078 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 5.107 | 0.0061 | -2.5 to 2.5 | Pass |
| | 847.5 | 15 | 0 | 20 | 3.27 | -0.372 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.873 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.787 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.587 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.658 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.529 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.772 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.529 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.558 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.415 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.559 | -0.0018 | -2.5 to 2.5 | Pass |
| 16QAM | 825.5 | 15 | 0 | 20 | 3.27 | 25.821 | 0.0313 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 30.584 | 0.0370 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 43.359 | 0.0525 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 42.915 | 0.0520 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 39.668 | 0.0481 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 37.436 | 0.0453 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 35.706 | 0.0433 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 34.761 | 0.0421 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 33.588 | 0.0407 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 32.830 | 0.0398 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 32.201 | 0.0390 | -2.5 to 2.5 | Pass |
| | 836.5 | 15 | 0 | 20 | 3.27 | 4.077 | 0.0049 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 4.048 | 0.0048 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 3.047 | 0.0036 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 2.604 | 0.0031 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.774 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.345 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.458 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.215 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.073 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.629 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.486 | -0.0006 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 847.5 | 15 | 0 | 20 | 3.27 | -1.860 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.129 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.043 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.086 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.157 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -7.396 | -0.0087 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -13.175 | -0.0155 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -8.869 | -0.0105 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -5.279 | -0.0062 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.917 | -0.0023 | -2.5 to 2.5 | Pass |

## 2.3 B5_5MHz

### 2.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 826.5 | 25 | 0 | 20 | 3.27 | 1.903 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.604 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 3.061 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 10.014 | 0.0121 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 14.777 | 0.0179 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 18.983 | 0.0230 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 22.345 | 0.0270 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 24.648 | 0.0298 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 27.194 | 0.0329 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 29.125 | 0.0352 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 35.577 | 0.0430 | -2.5 to 2.5 | Pass |
| | 836.5 | 25 | 0 | 20 | 3.27 | 9.484 | 0.0113 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 10.042 | 0.0120 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 15.020 | 0.0180 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 11.058 | 0.0132 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 6.709 | 0.0080 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 3.934 | 0.0047 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.216 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.001 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.561 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -3.748 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -4.807 | -0.0057 | -2.5 to 2.5 | Pass |
| | 846.5 | 25 | 0 | 20 | 3.27 | -1.287 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.174 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.017 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.988 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.888 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.988 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.089 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.888 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.917 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.046 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.589 | -0.0031 | -2.5 to 2.5 | Pass |
| 16QAM | 826.5 | 25 | 0 | 20 | 3.27 | 35.391 | 0.0428 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 35.033 | 0.0424 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 34.962 | 0.0423 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 35.291 | 0.0427 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 35.892 | 0.0434 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 36.950 | 0.0447 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 | 3.85 | 37.394 | 0.0452 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 38.295 | 0.0463 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 38.438 | 0.0465 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 38.738 | 0.0469 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 39.024 | 0.0472 | -2.5 to 2.5 | Pass |
| | 836.5 | 25 | 0 | 20 | 3.27 | -5.722 | -0.0068 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -6.609 | -0.0079 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -7.324 | -0.0088 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -7.825 | -0.0094 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -7.954 | -0.0095 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -6.938 | -0.0083 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -8.082 | -0.0097 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -8.998 | -0.0108 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -9.885 | -0.0118 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -10.200 | -0.0122 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -10.929 | -0.0131 | -2.5 to 2.5 | Pass |
| | 846.5 | 25 | 0 | 20 | 3.27 | -2.003 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.418 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.561 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.275 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.232 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.260 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.675 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.789 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.604 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.704 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -4.706 | -0.0056 | -2.5 to 2.5 | Pass |

## 2.4 B5_10MHz

### 2.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 829 | 50 | 0 | 20 | 3.27 | -20.900 | -0.0252 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -22.702 | -0.0274 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -21.930 | -0.0265 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -22.960 | -0.0277 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -33.860 | -0.0408 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -28.625 | -0.0345 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -23.832 | -0.0287 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -20.785 | -0.0251 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -17.395 | -0.0210 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -11.988 | -0.0145 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -8.612 | -0.0104 | -2.5 to 2.5 | Pass |
| | 836.5 | 50 | 0 | 20 | 3.27 | 3.591 | 0.0043 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.874 | 0.0022 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.845 | 0.0022 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.531 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.502 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.302 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.715 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.801 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.544 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.758 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.945 | 0.0023 | -2.5 to 2.5 | Pass |
| | 844 | 50 | 0 | 20 | 3.27 | 2.618 | 0.0031 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3.85 | 1.173 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 2.360 | 0.0028 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 3.119 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -7.725 | -0.0092 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -8.626 | -0.0102 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -3.290 | -0.0039 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.688 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 5.608 | 0.0066 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 8.669 | 0.0103 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 16.952 | 0.0201 | -2.5 to 2.5 | Pass |
| 16QAM | 829 | 50 | 0 | 20 | 3.27 | -7.839 | -0.0095 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.572 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.947 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -6.094 | -0.0074 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -8.469 | -0.0102 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -10.114 | -0.0122 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -11.387 | -0.0137 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -12.517 | -0.0151 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -13.289 | -0.0160 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -13.561 | -0.0164 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -12.445 | -0.0150 | -2.5 to 2.5 | Pass |
| | 836.5 | 50 | 0 | 20 | 3.27 | 0.744 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.529 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.200 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.001 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.431 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.631 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.060 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.360 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.789 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.489 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -4.578 | -0.0055 | -2.5 to 2.5 | Pass |
| | 844 | 50 | 0 | 20 | 3.27 | 18.010 | 0.0213 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 27.394 | 0.0325 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 23.689 | 0.0281 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 19.984 | 0.0237 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 17.710 | 0.0210 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 15.850 | 0.0188 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 14.634 | 0.0173 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 13.218 | 0.0157 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 12.832 | 0.0152 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 12.088 | 0.0143 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 13.661 | 0.0162 | -2.5 to 2.5 | Pass |

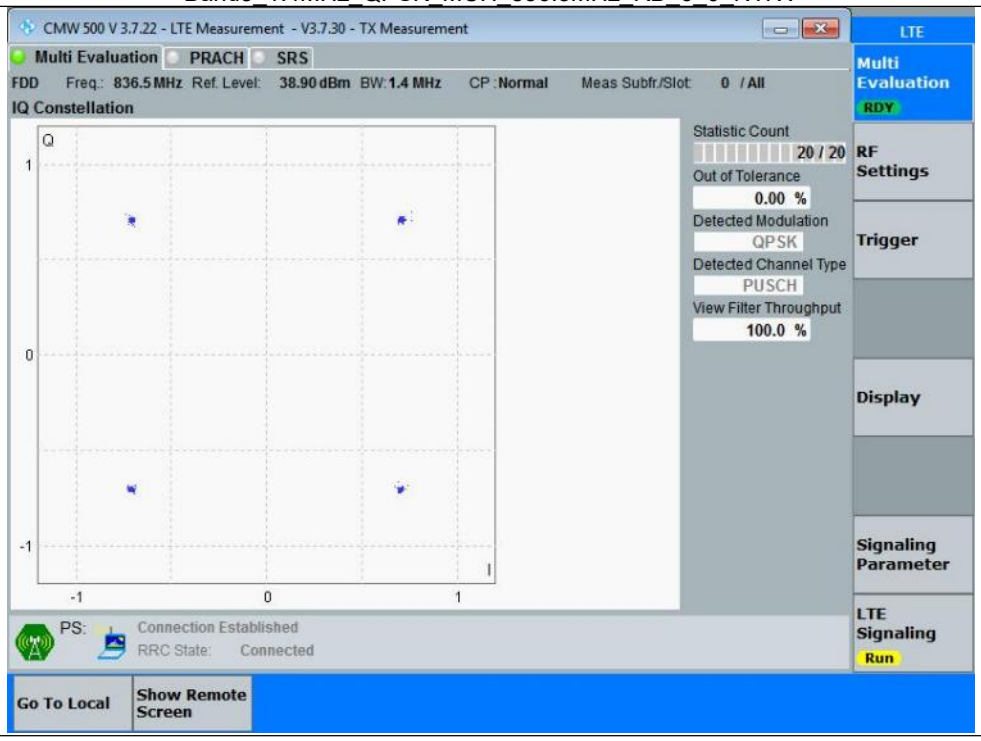
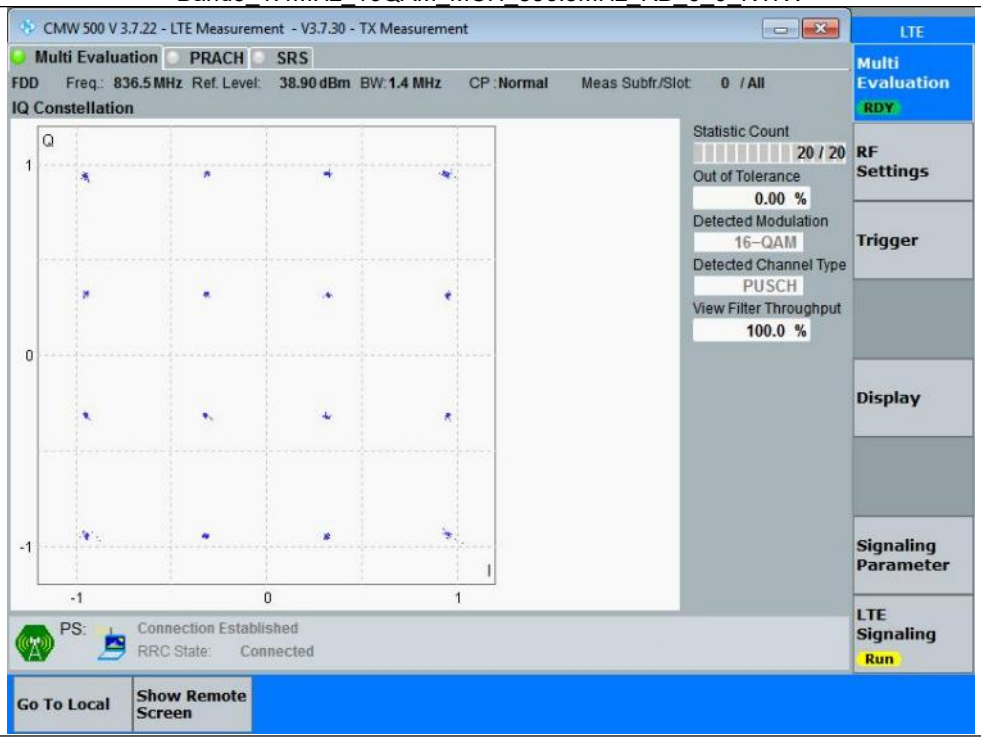
# 3. Modulation Characteristics

## 3.1 B5_1.4MHz

### 3.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 6 | 0 | Refer To Test Graph | | Pass |

### 3.1.2 Test Graph

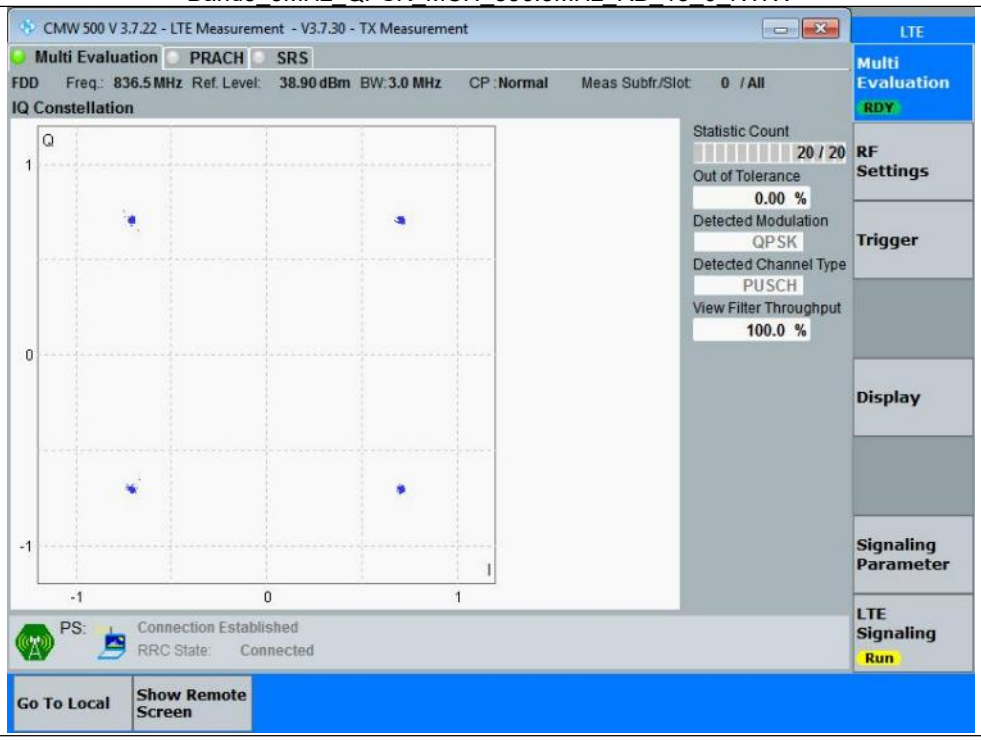
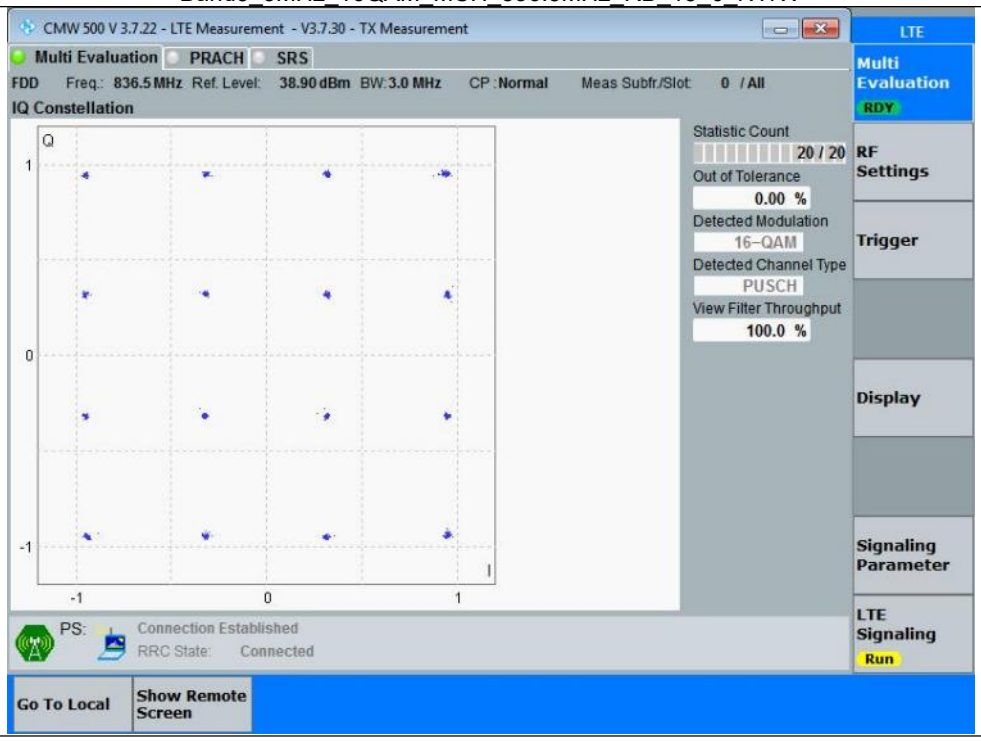
| Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV |
| --- |
|  |
| Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV |
|  |

## 3.2 B5_3MHz

### 3.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 15 | 0 | Refer To Test Graph | | Pass |

### 3.2.2 Test Graph

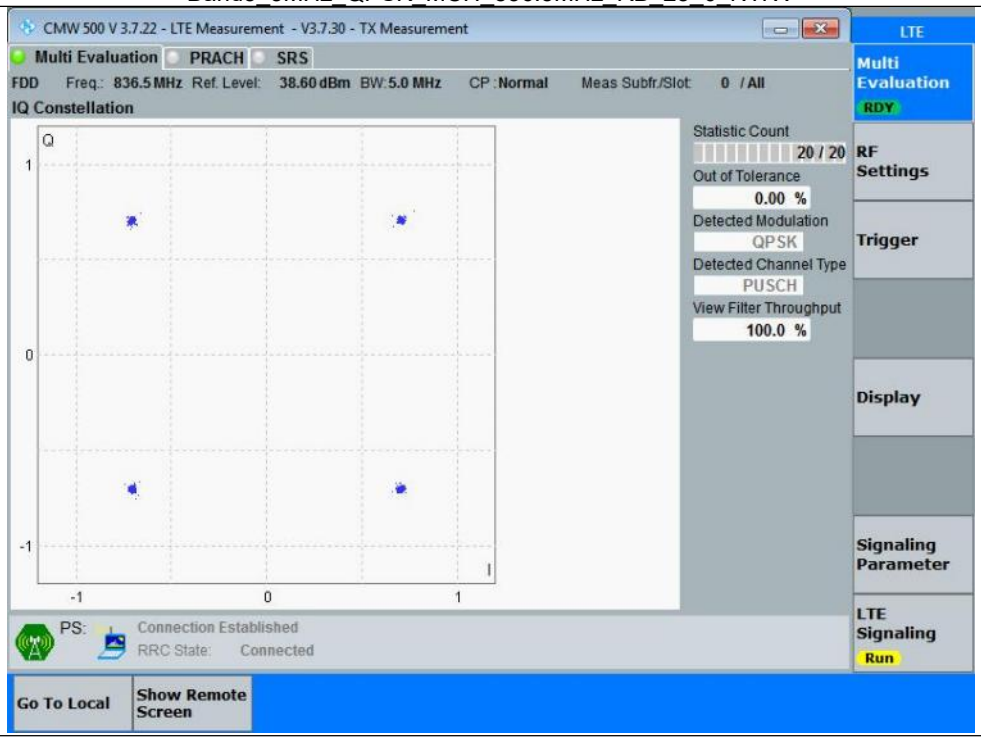
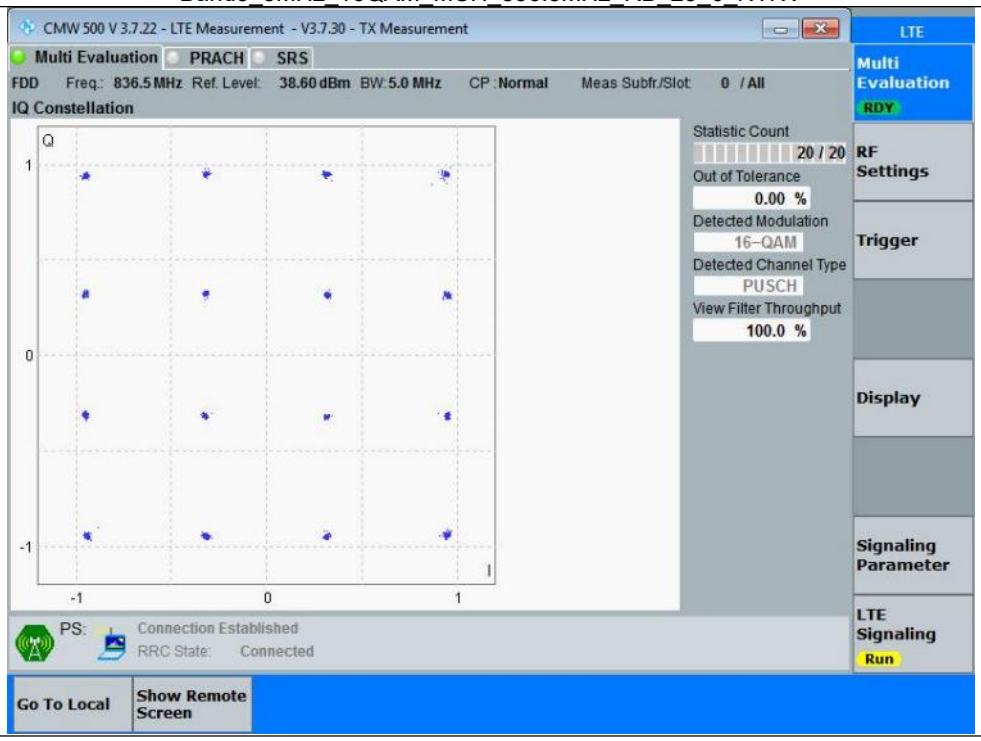
| Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV |
| --- |
|  |
| Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV |
|  |

## 3.3 B5_5MHz

### 3.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 25 | 0 | Refer To Test Graph | | Pass |

### 3.3.2 Test Graph

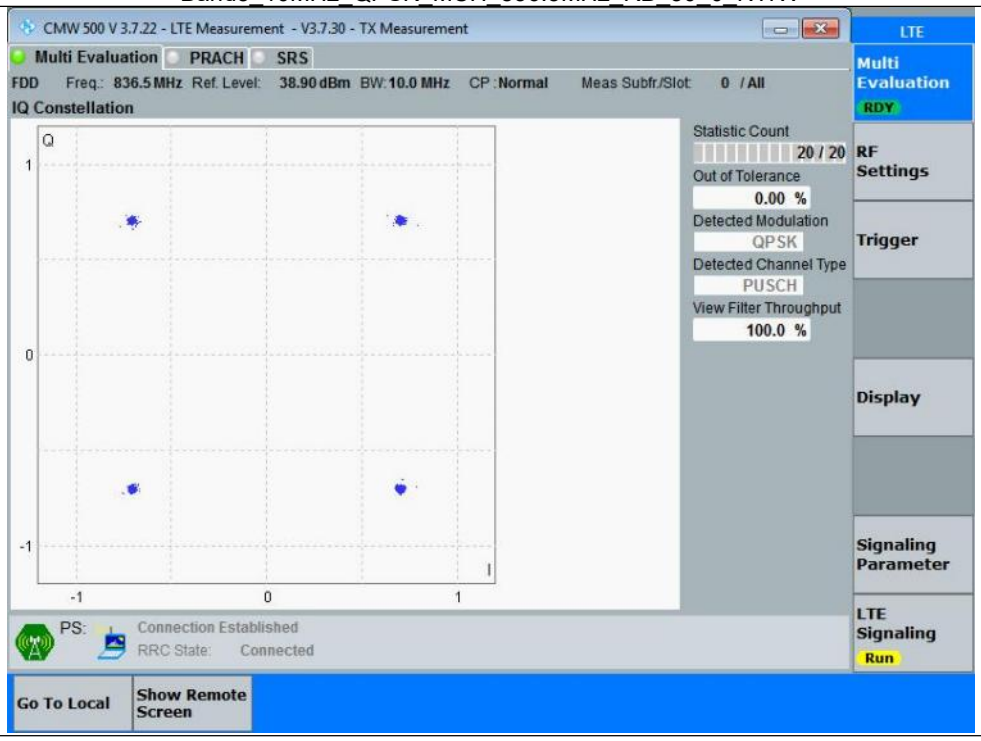
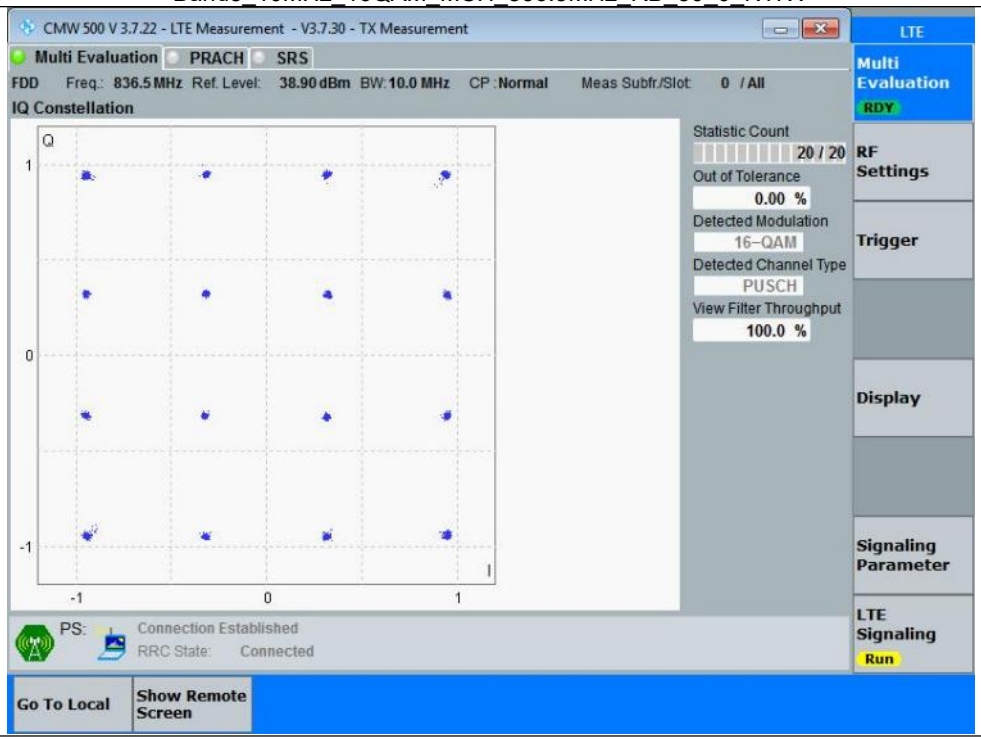
| Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV |
| --- |
|  |
| Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV |
|  |

## 3.4 B5_10MHz

### 3.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 50 | 0 | Refer To Test Graph | | Pass |

## 3.4.2 Test Graph

| Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV |
| --- |
|  |
| Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV |
|  |

# 4. 99% & 26dB Bandwidth

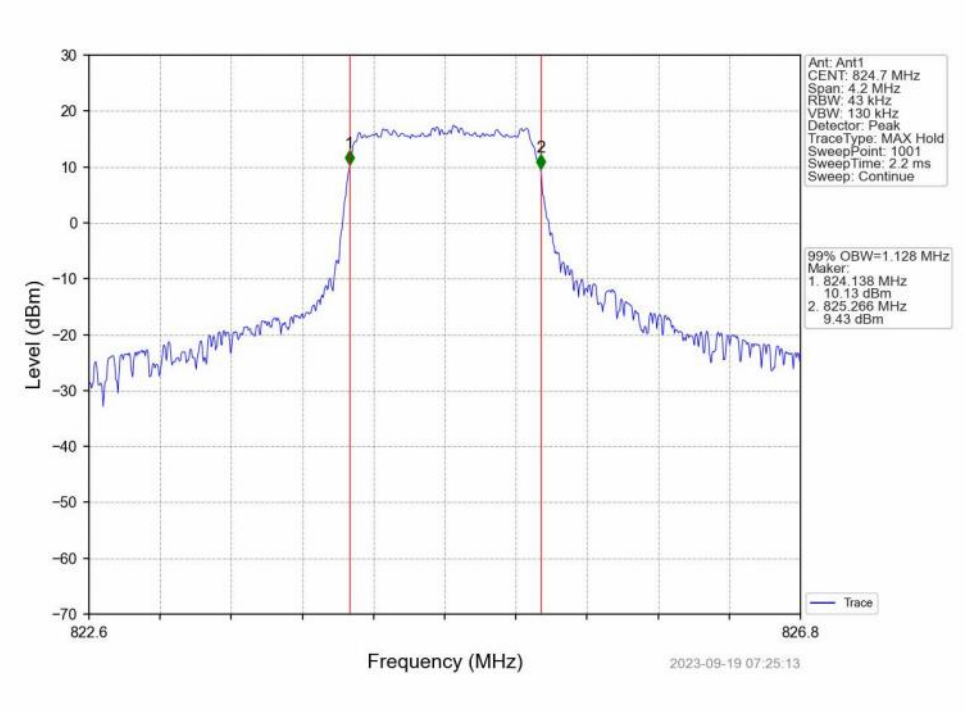
## 4.1 Band5_OBW

### 4.1.1 Test Result

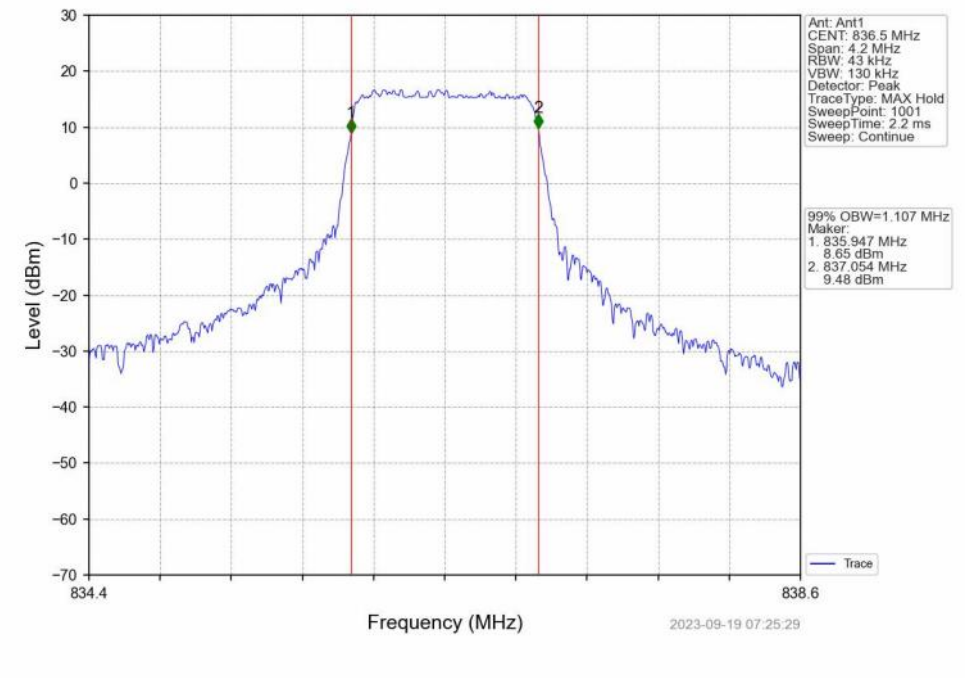
| Band: 5 / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 824.7 | 6 | 0 | 1.128 | Pass |
| | | 836.5 | 6 | 0 | 1.107 | Pass |
| | | 848.3 | 6 | 0 | 1.127 | Pass |
| | 16QAM | 824.7 | 6 | 0 | 1.131 | Pass |
| | | 836.5 | 6 | 0 | 1.118 | Pass |
| | | 848.3 | 6 | 0 | 1.126 | Pass |
| 3 | QPSK | 825.5 | 15 | 0 | 2.770 | Pass |
| | | 836.5 | 15 | 0 | 2.754 | Pass |
| | | 847.5 | 15 | 0 | 2.766 | Pass |
| | 16QAM | 825.5 | 15 | 0 | 2.781 | Pass |
| | | 836.5 | 15 | 0 | 2.770 | Pass |
| | | 847.5 | 15 | 0 | 2.771 | Pass |
| 5 | QPSK | 826.5 | 25 | 0 | 4.558 | Pass |
| | | 836.5 | 25 | 0 | 4.566 | Pass |
| | | 846.5 | 25 | 0 | 4.576 | Pass |
| | 16QAM | 826.5 | 25 | 0 | 4.579 | Pass |
| | | 836.5 | 25 | 0 | 4.607 | Pass |
| | | 846.5 | 25 | 0 | 4.562 | Pass |
| 10 | QPSK | 829 | 50 | 0 | 9.079 | Pass |
| | | 836.5 | 50 | 0 | 9.068 | Pass |
| | | 844 | 50 | 0 | 9.084 | Pass |
| | 16QAM | 829 | 50 | 0 | 9.055 | Pass |
| | | 836.5 | 50 | 0 | 9.084 | Pass |
| | | 844 | 50 | 0 | 9.096 | Pass |

## 4.1.2 Test Graph

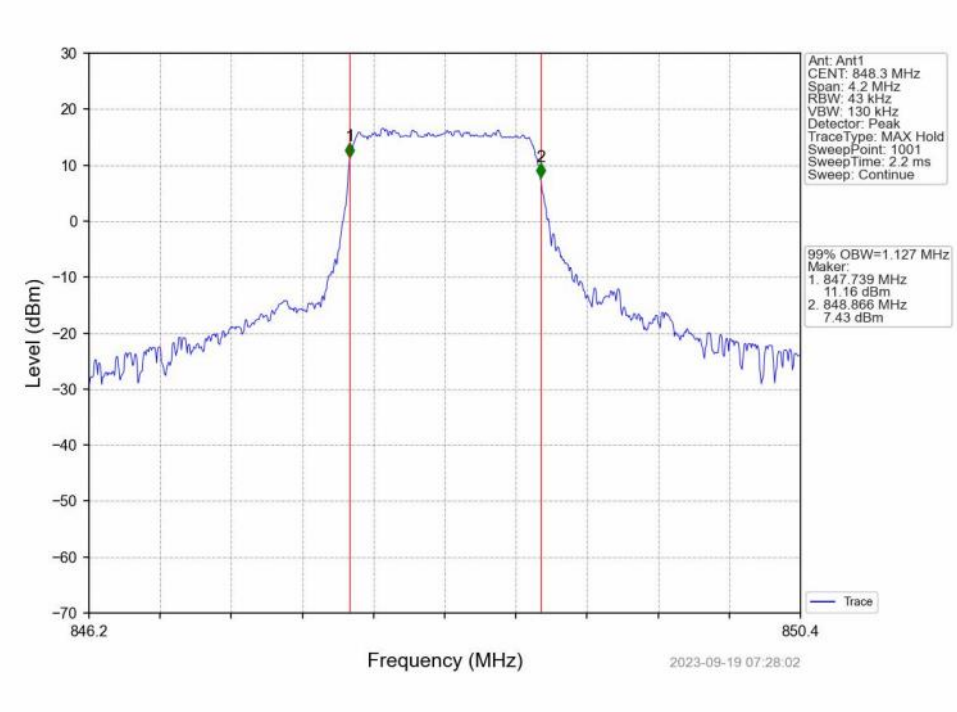
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



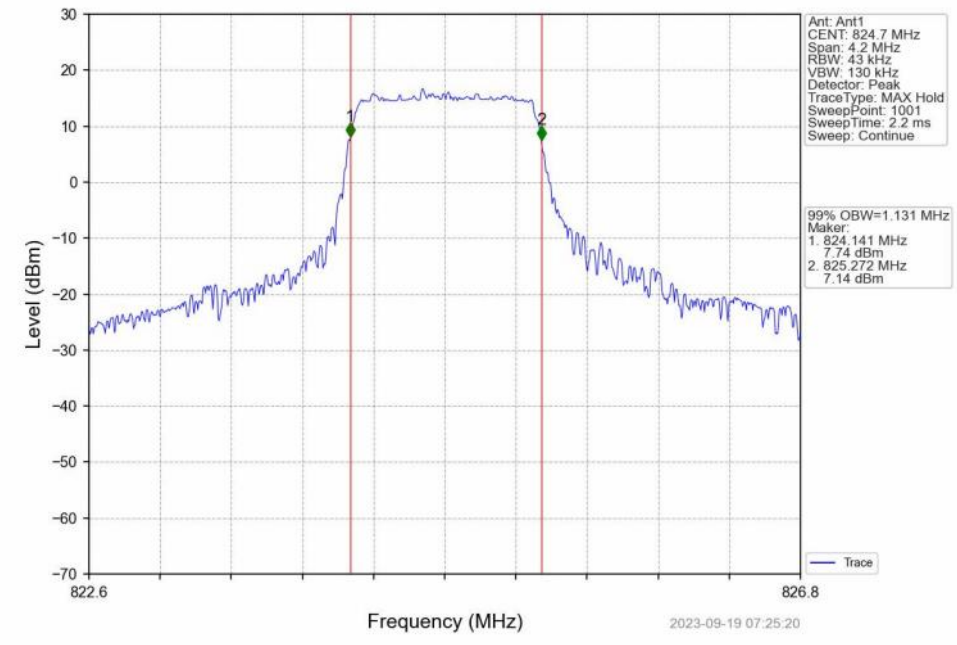

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



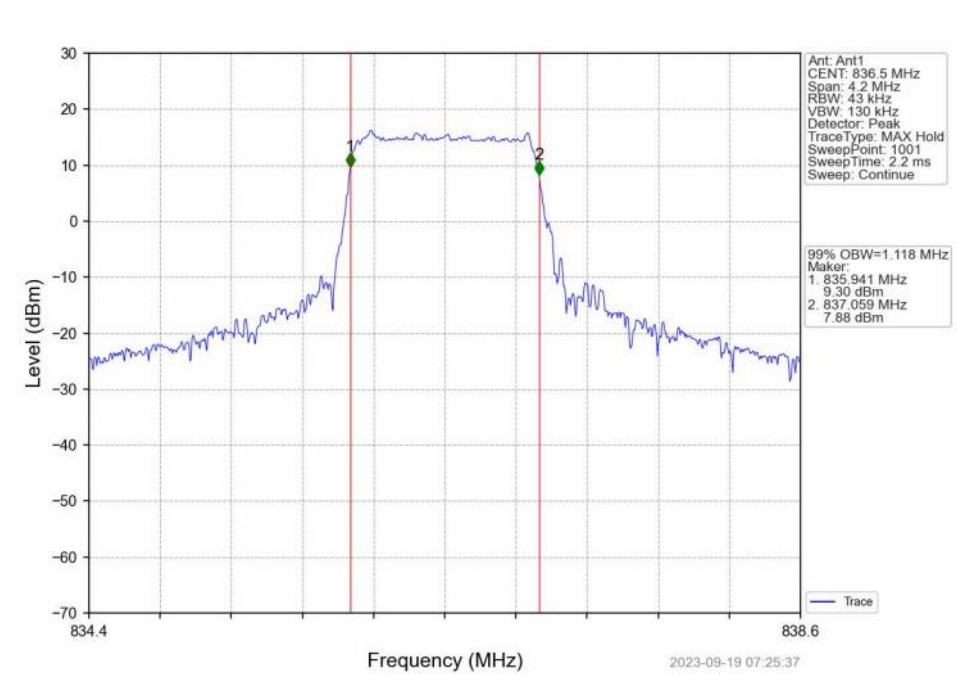
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



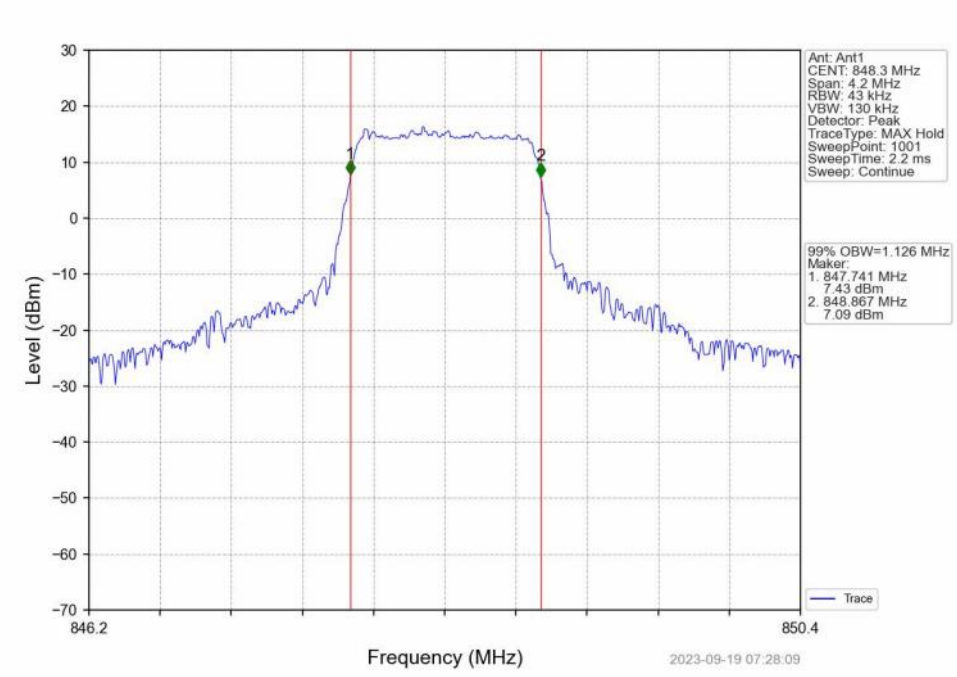

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



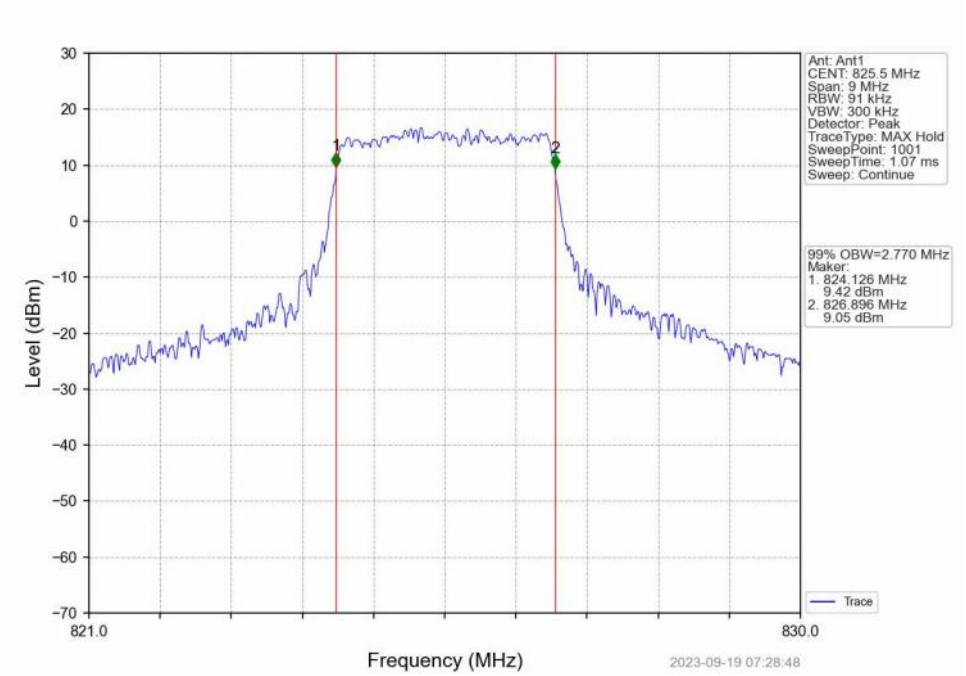
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



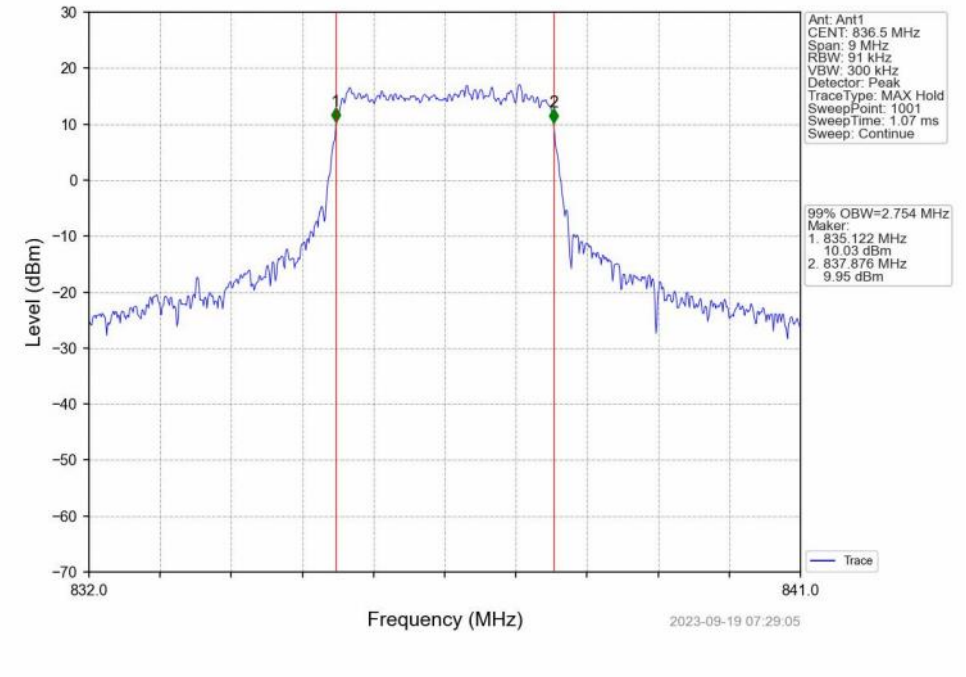

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



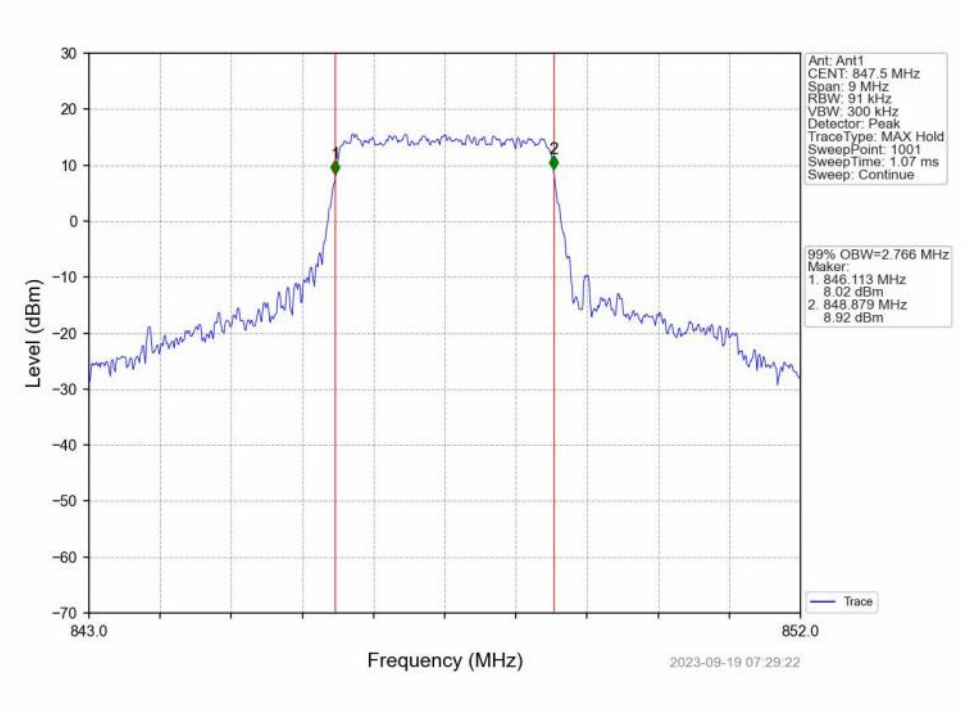
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



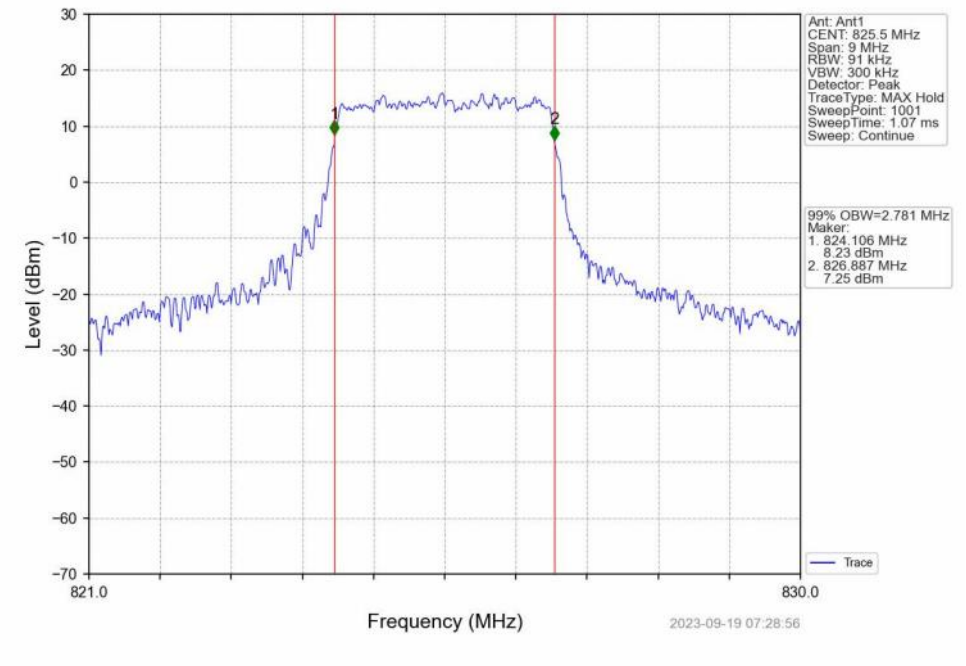

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



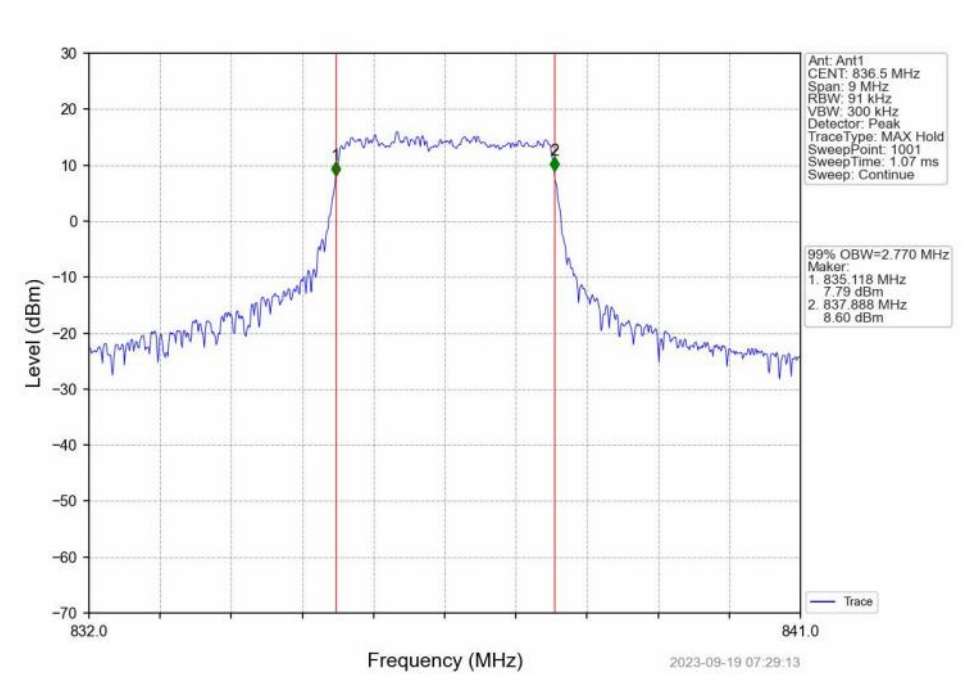
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



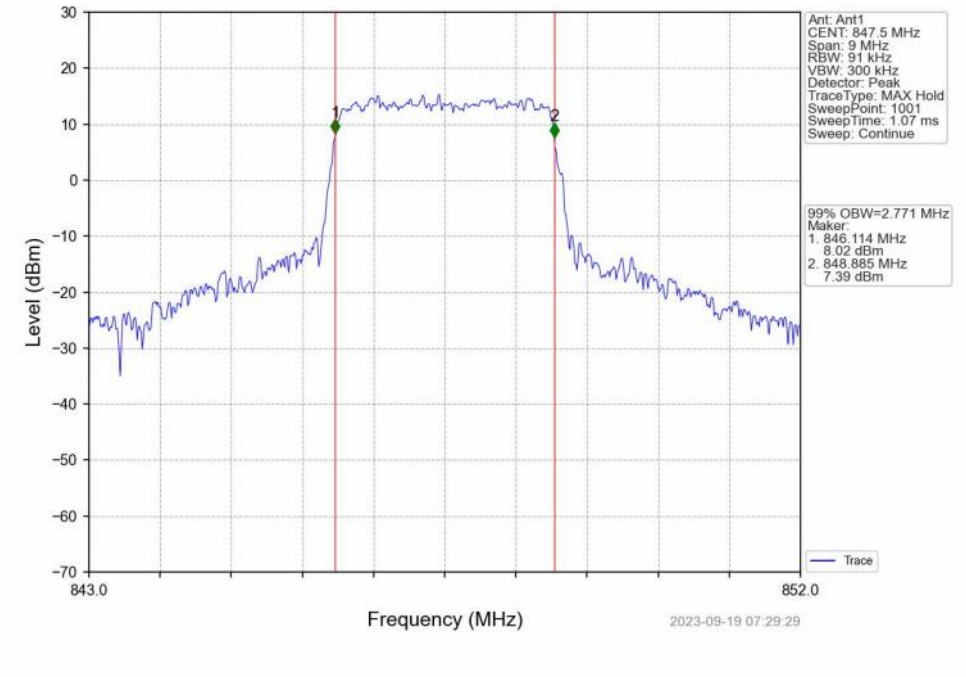

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



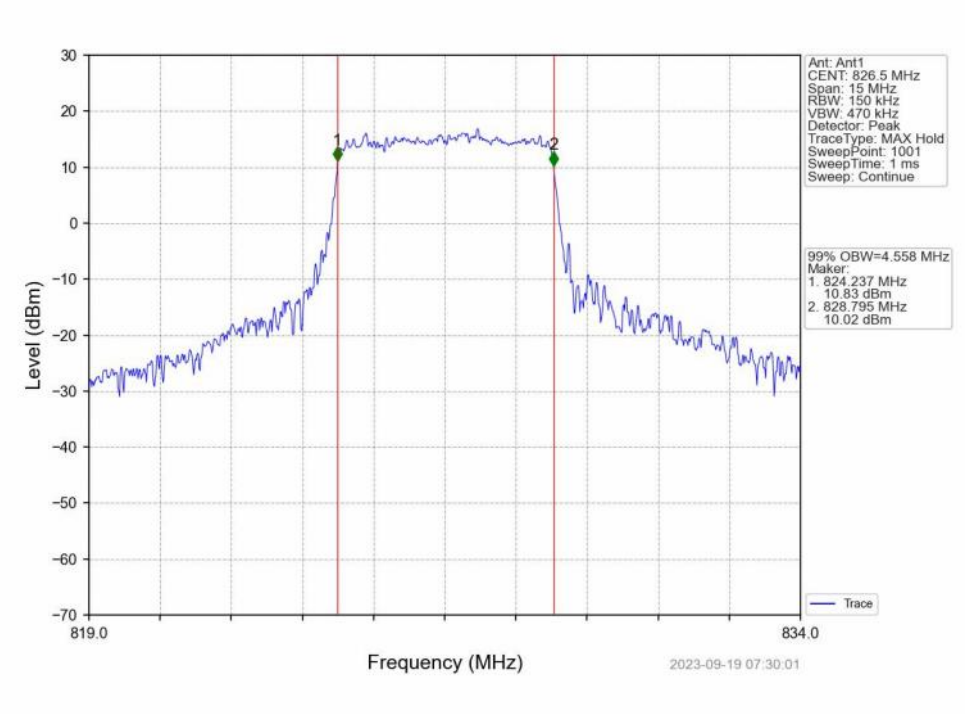
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



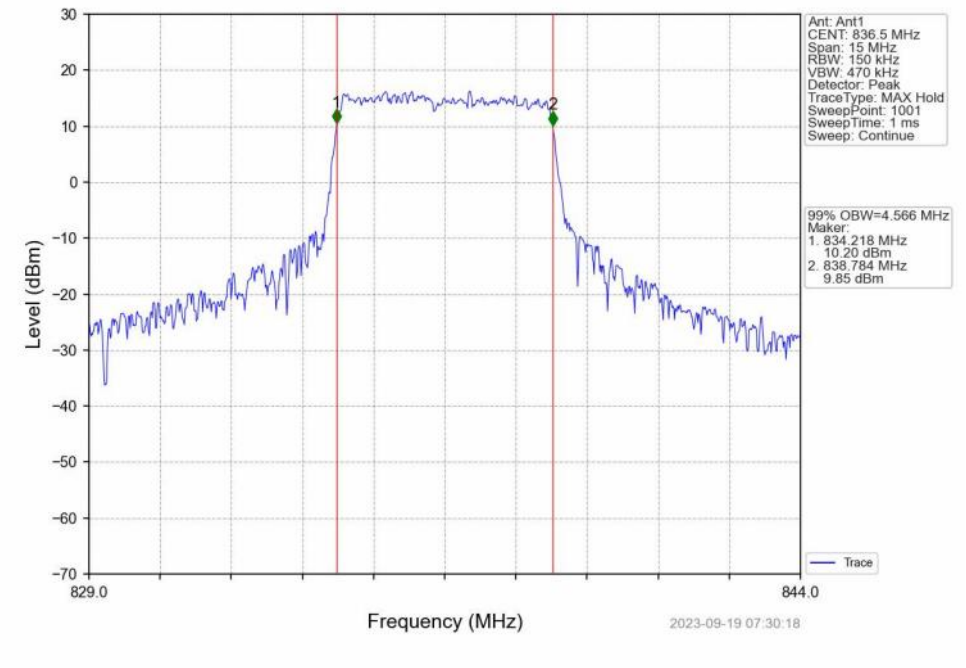

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



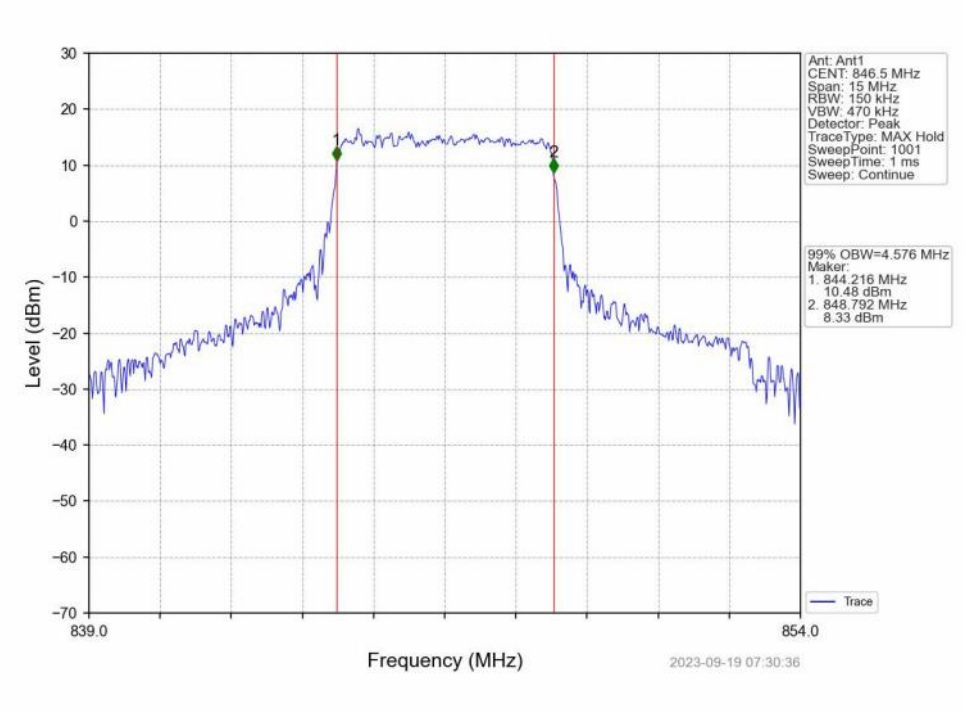
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



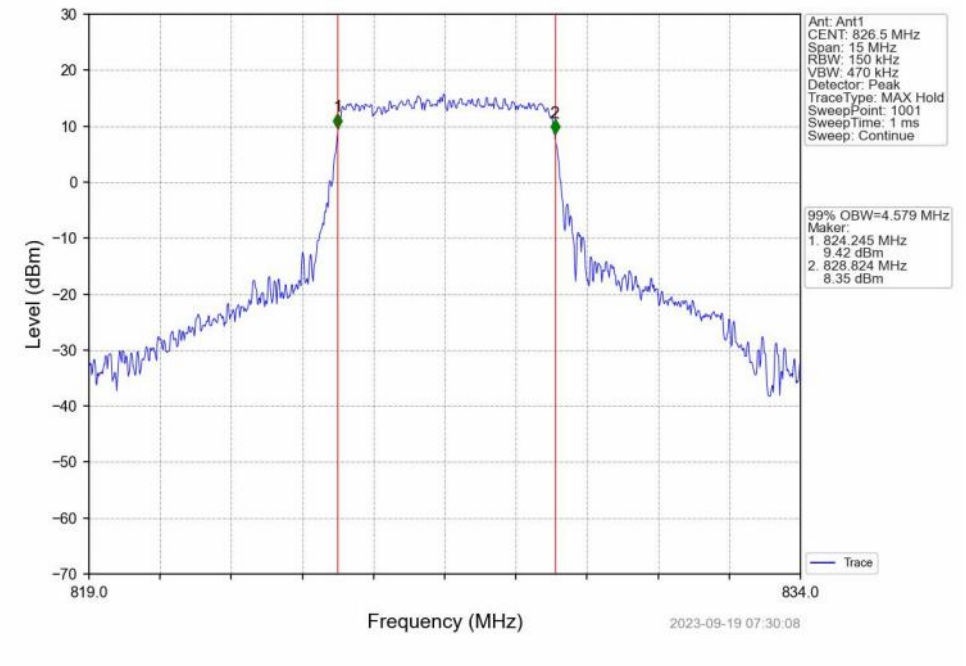

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



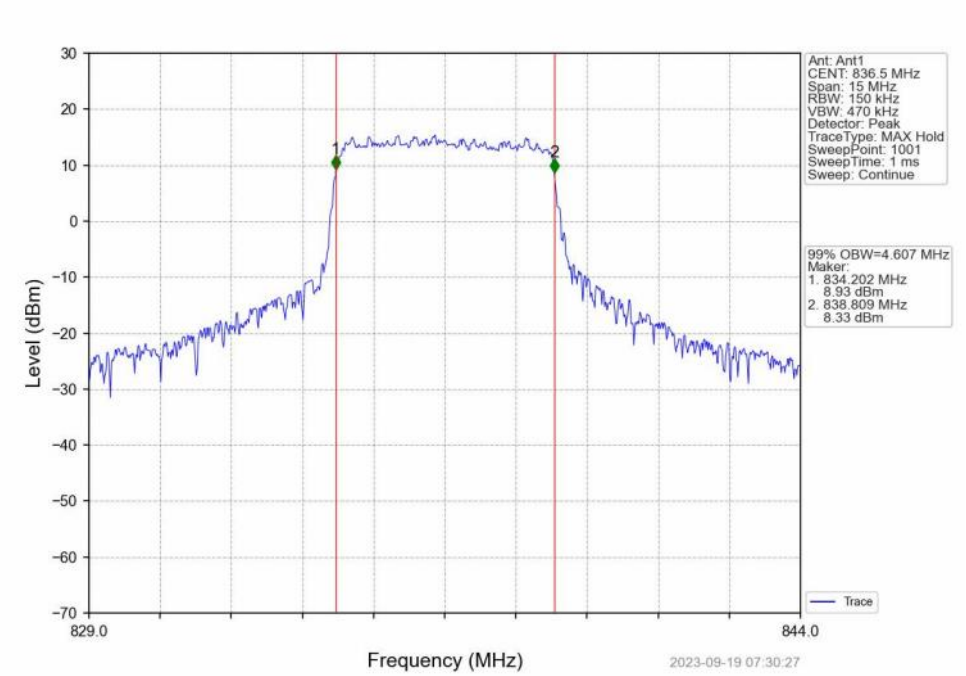
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



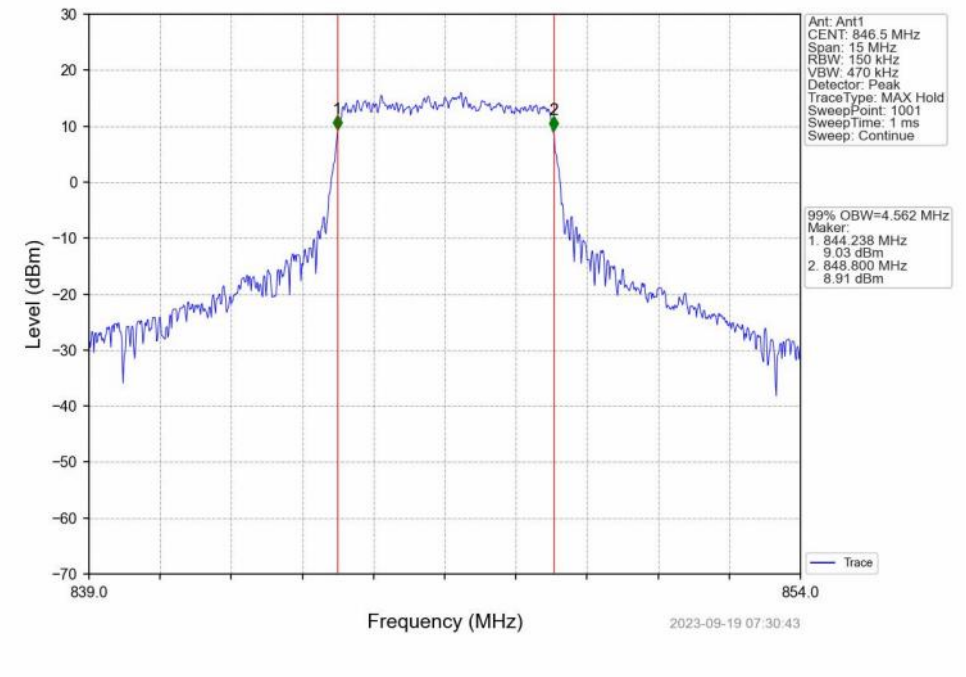

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



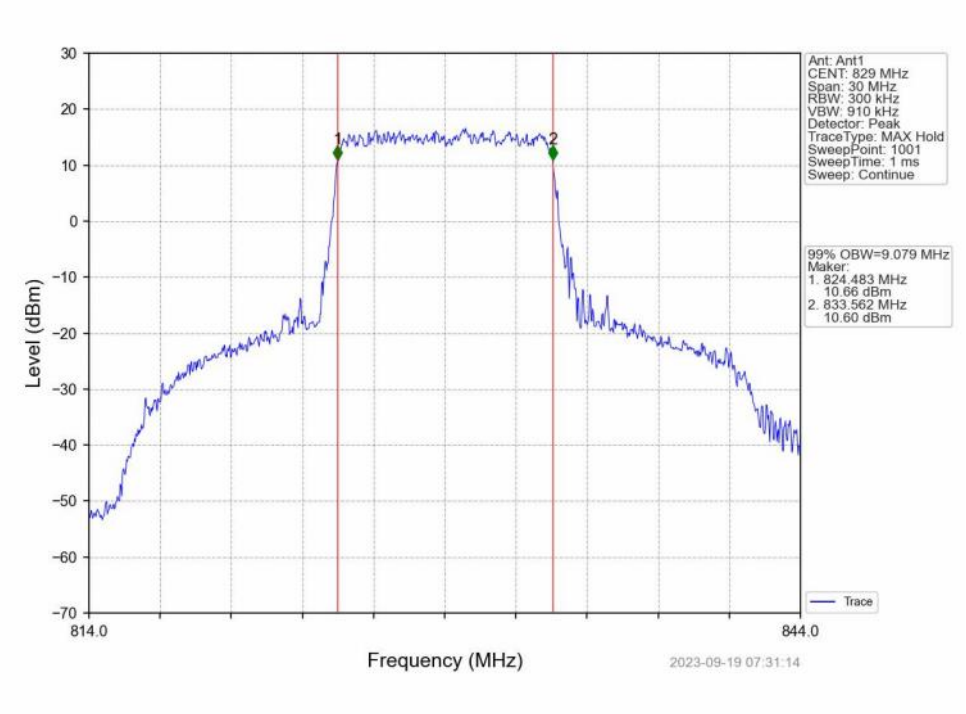
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



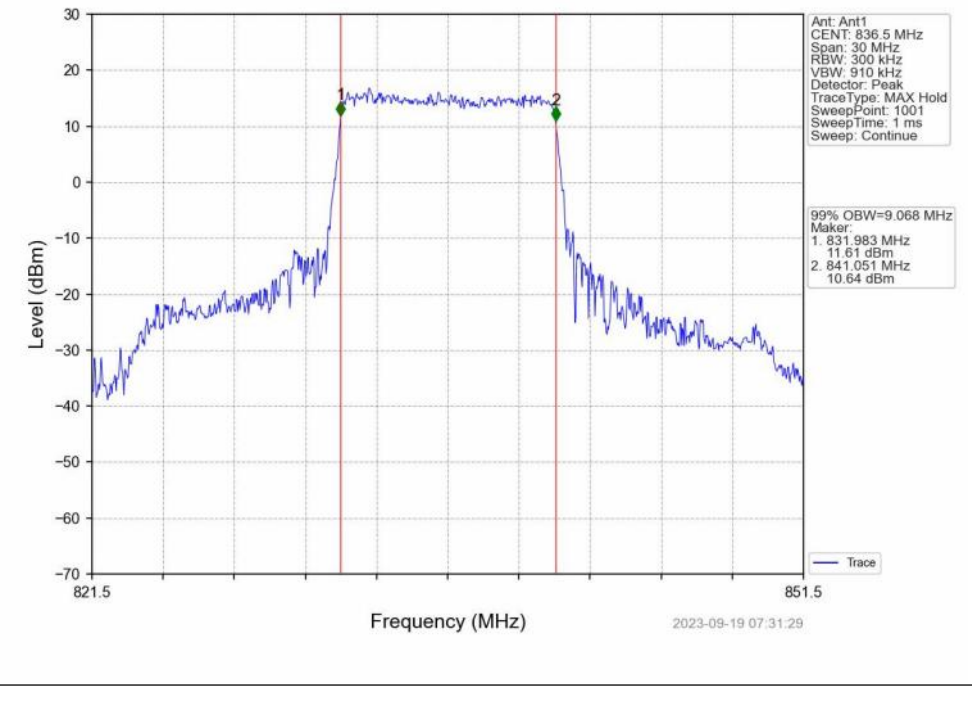

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



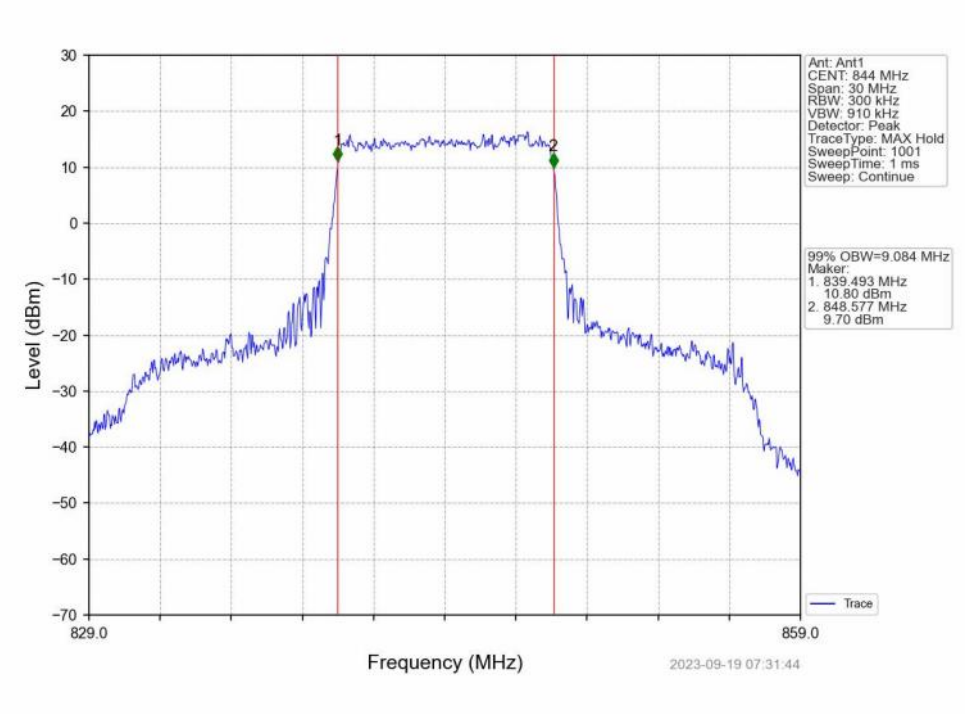
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



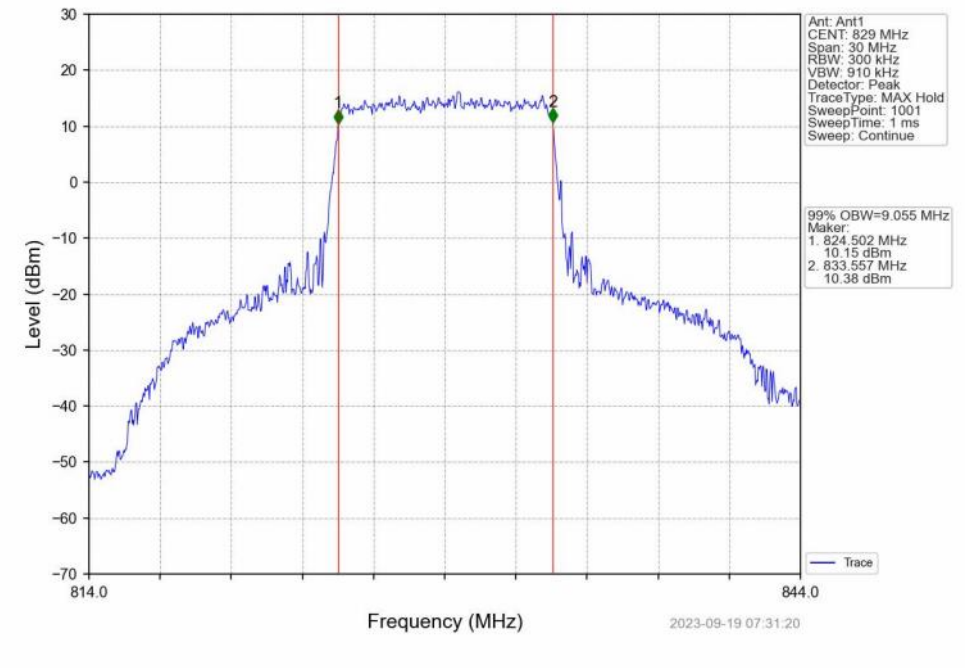

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



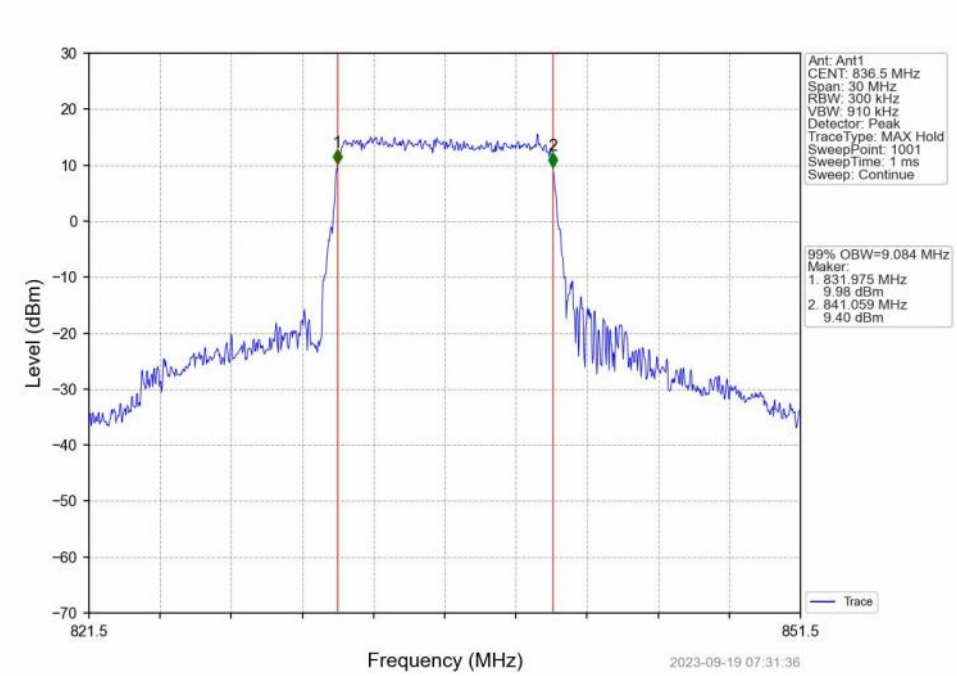
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



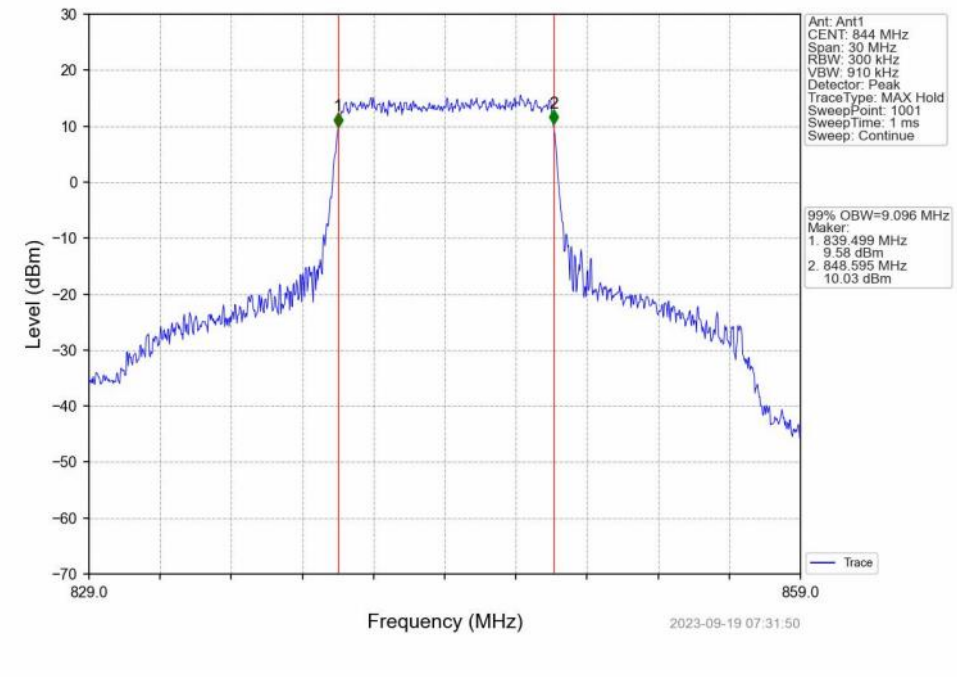

Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV




Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



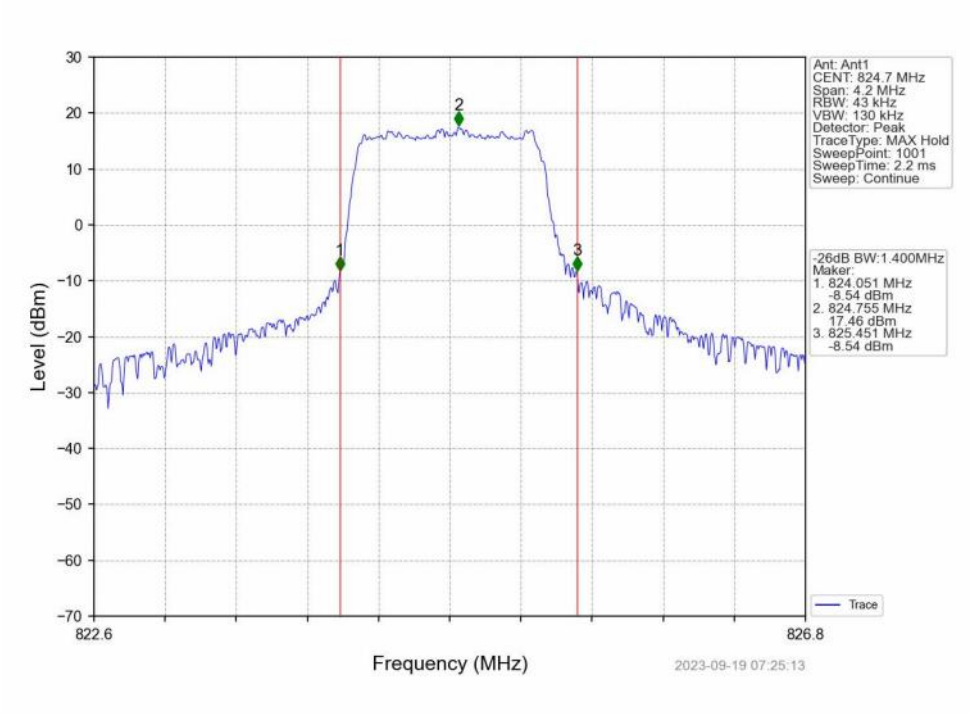
## 4.2 Band5_XDB

### 4.2.1 Test Result

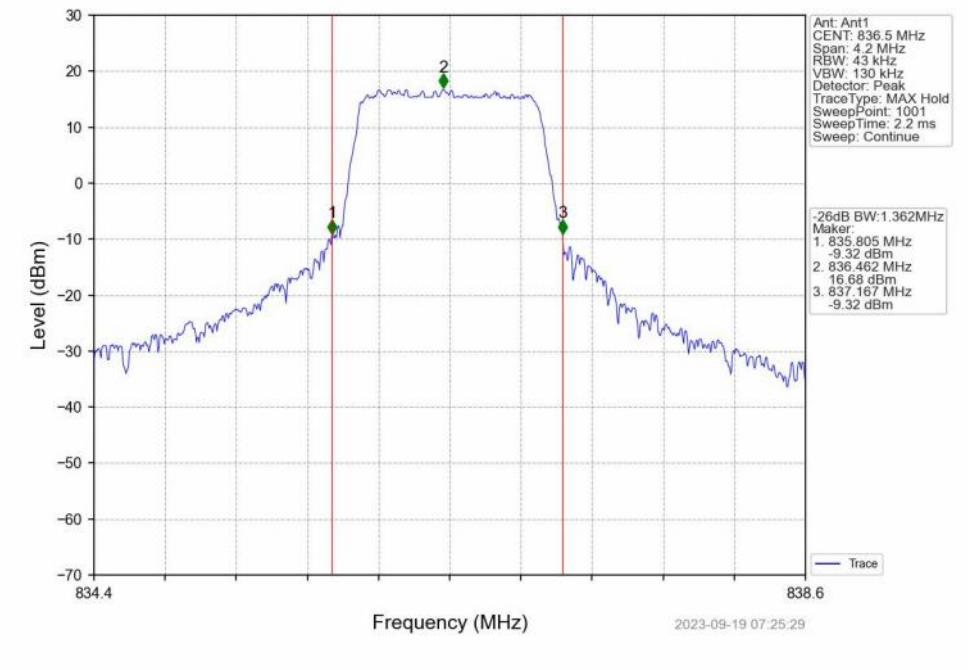
| Band: 5 / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 824.7 | 6 | 0 | 1.400 | Pass |
| | | 836.5 | 6 | 0 | 1.362 | Pass |
| | | 848.3 | 6 | 0 | 1.421 | Pass |
| | 16QAM | 824.7 | 6 | 0 | 1.460 | Pass |
| | | 836.5 | 6 | 0 | 1.346 | Pass |
| | | 848.3 | 6 | 0 | 1.377 | Pass |
| 3 | QPSK | 825.5 | 15 | 0 | 3.571 | Pass |
| | | 836.5 | 15 | 0 | 3.219 | Pass |
| | | 847.5 | 15 | 0 | 3.571 | Pass |
| | 16QAM | 825.5 | 15 | 0 | 3.465 | Pass |
| | | 836.5 | 15 | 0 | 3.442 | Pass |
| | | 847.5 | 15 | 0 | 3.259 | Pass |
| 5 | QPSK | 826.5 | 25 | 0 | 5.400 | Pass |
| | | 836.5 | 25 | 0 | 5.717 | Pass |
| | | 846.5 | 25 | 0 | 5.629 | Pass |
| | 16QAM | 826.5 | 25 | 0 | 5.587 | Pass |
| | | 836.5 | 25 | 0 | 5.876 | Pass |
| | | 846.5 | 25 | 0 | 5.538 | Pass |
| 10 | QPSK | 829 | 50 | 0 | 10.497 | Pass |
| | | 836.5 | 50 | 0 | 10.341 | Pass |
| | | 844 | 50 | 0 | 10.308 | Pass |
| | 16QAM | 829 | 50 | 0 | 10.479 | Pass |
| | | 836.5 | 50 | 0 | 10.187 | Pass |
| | | 844 | 50 | 0 | 10.293 | Pass |

## 4.2.2 Test Graph

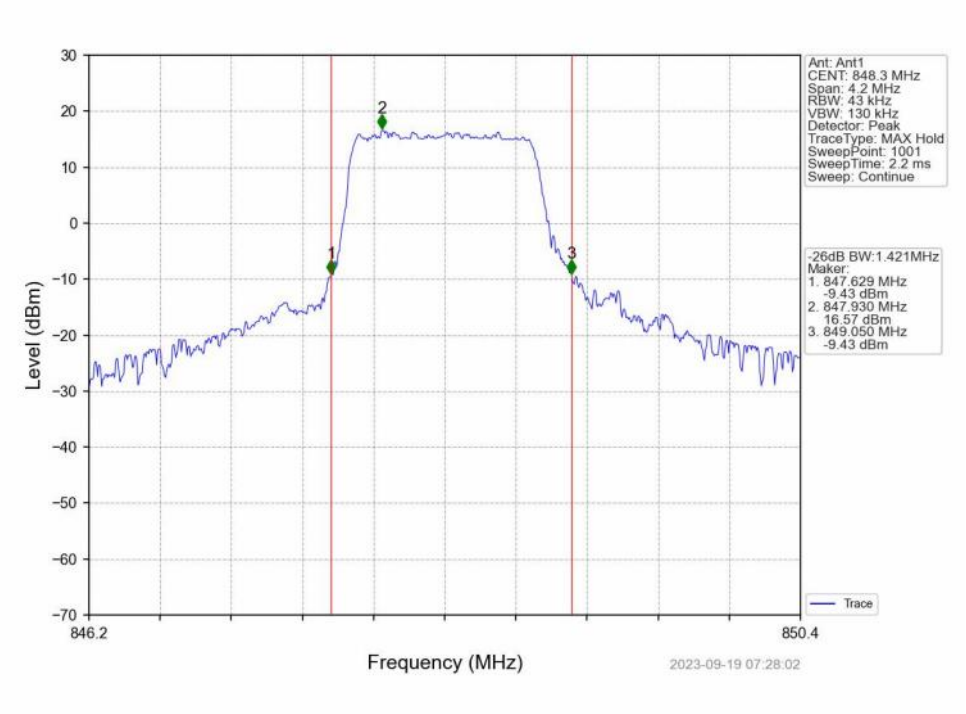
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



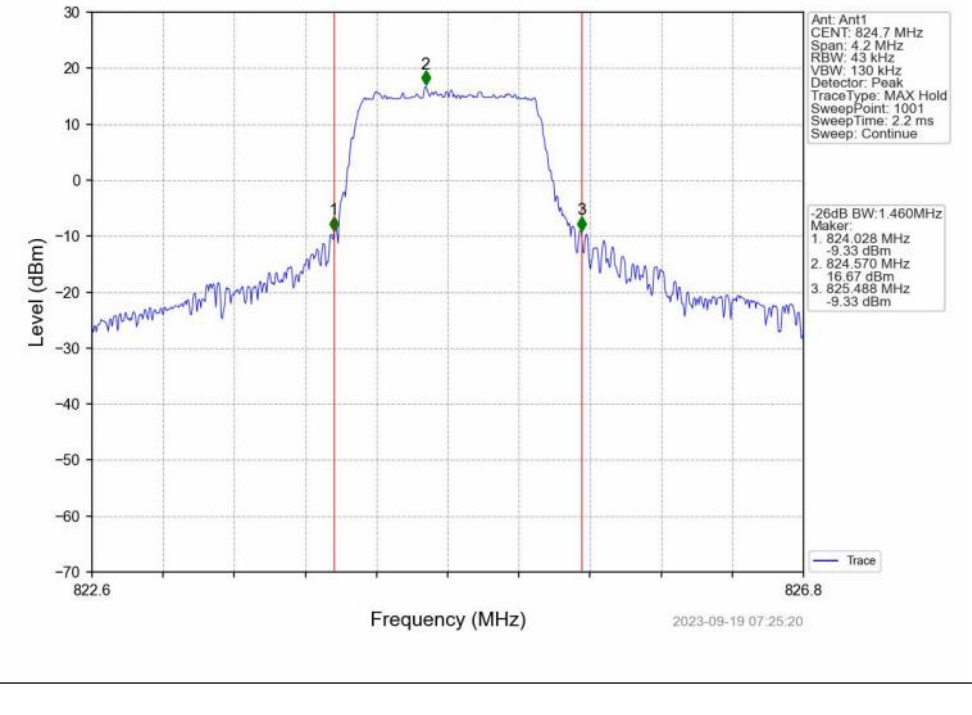

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



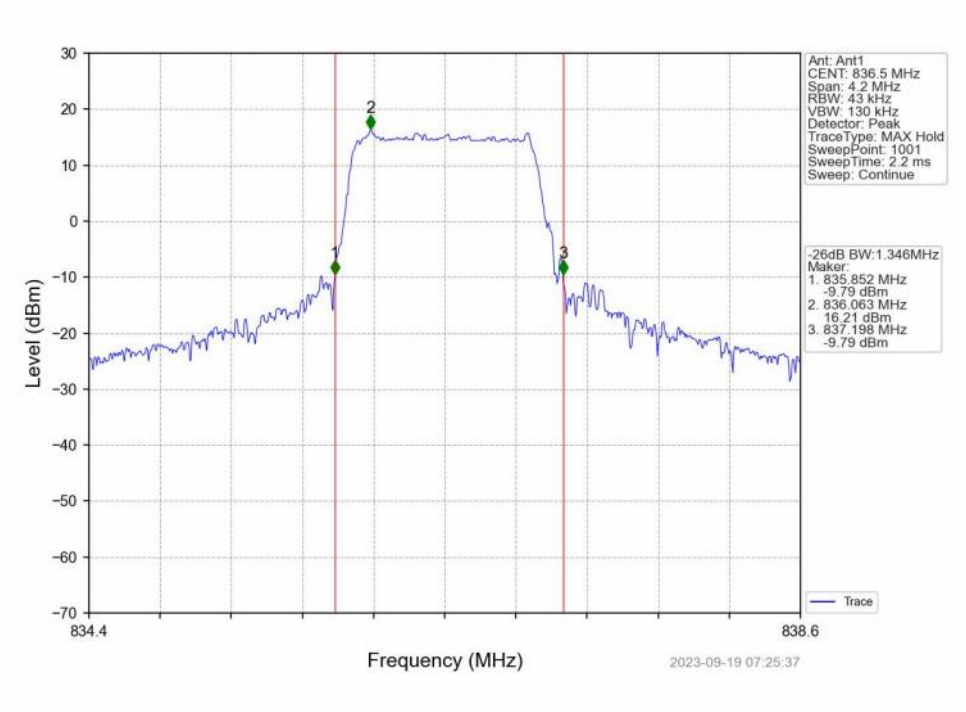
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



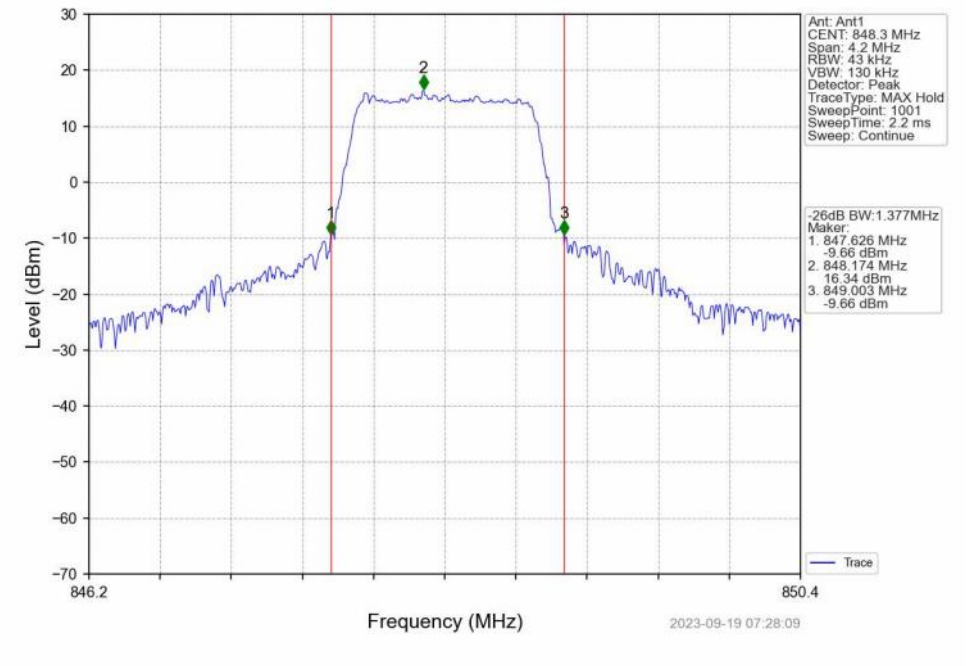

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



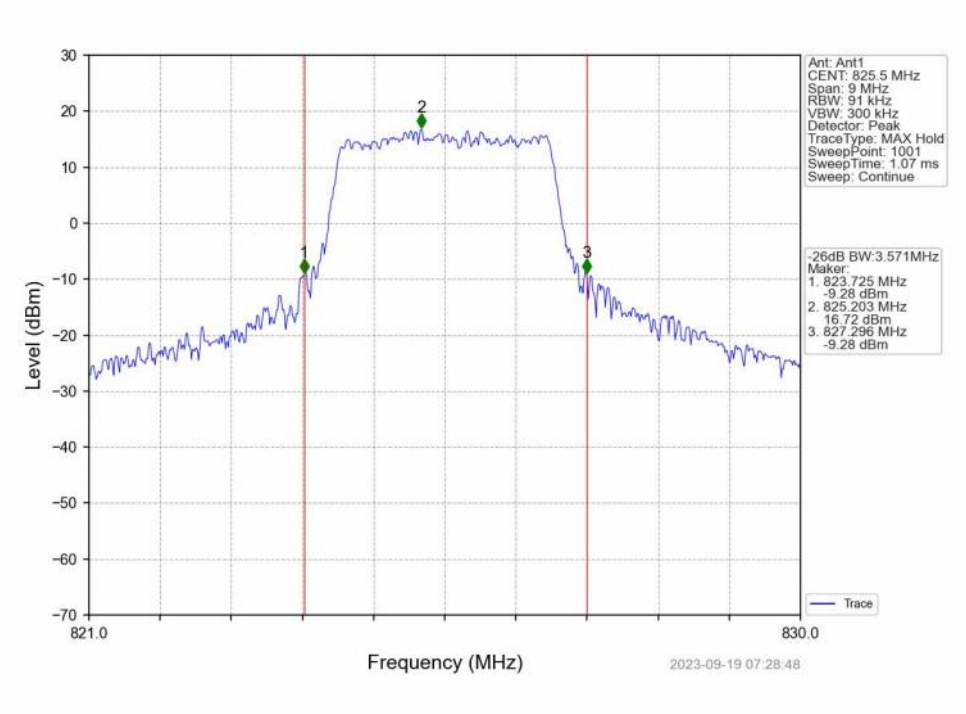
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



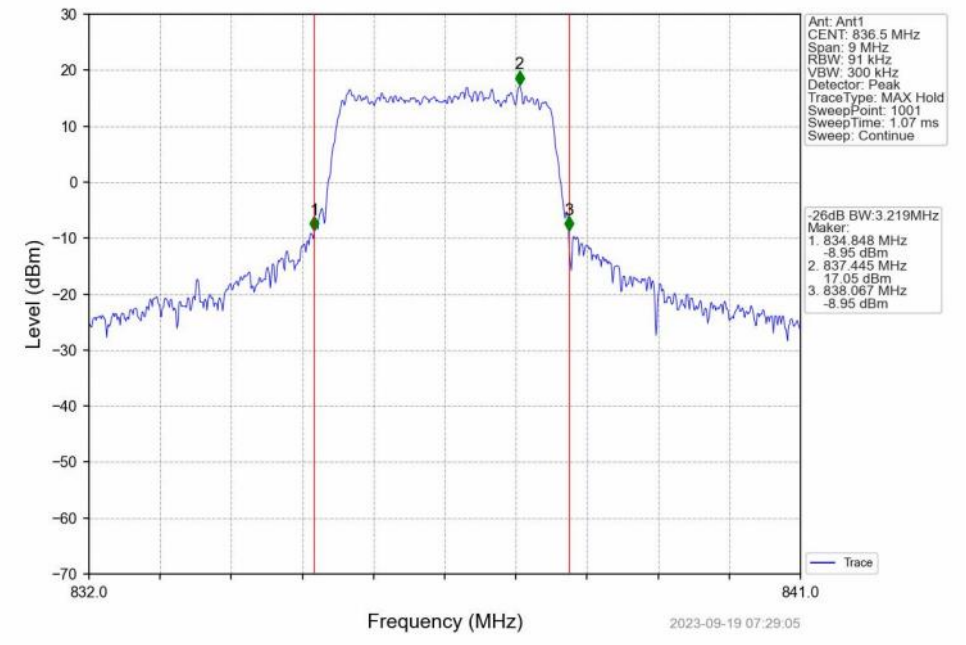

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



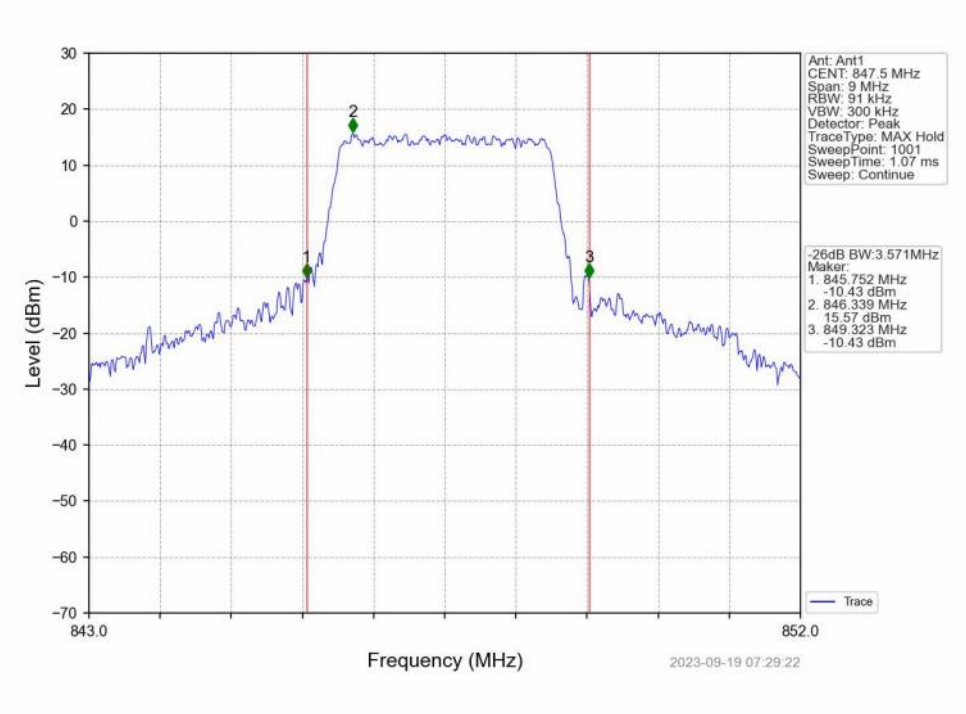
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



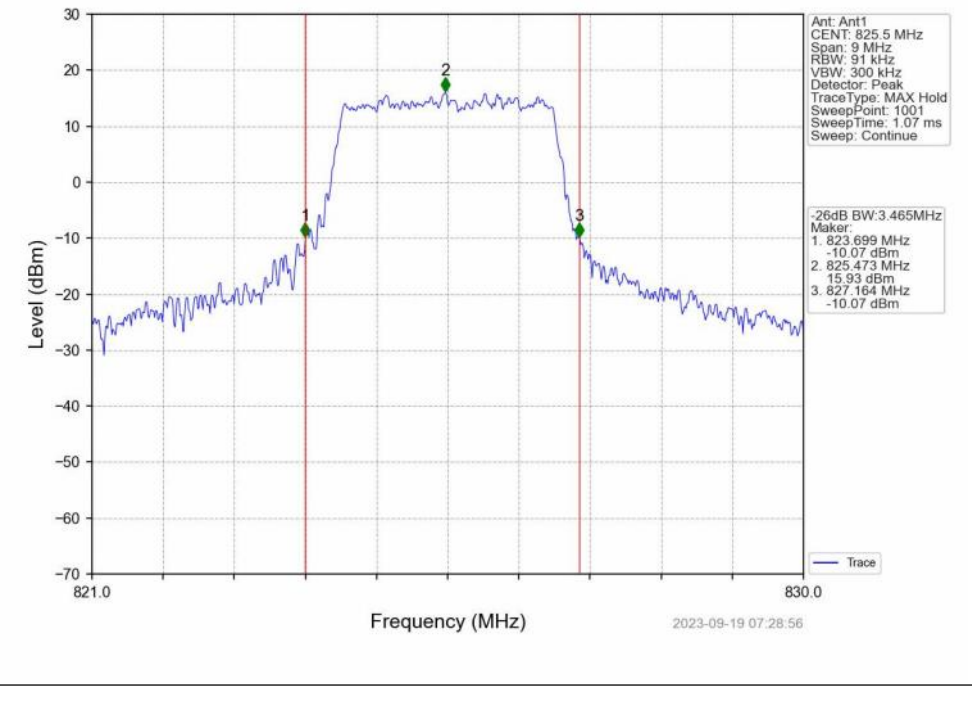

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



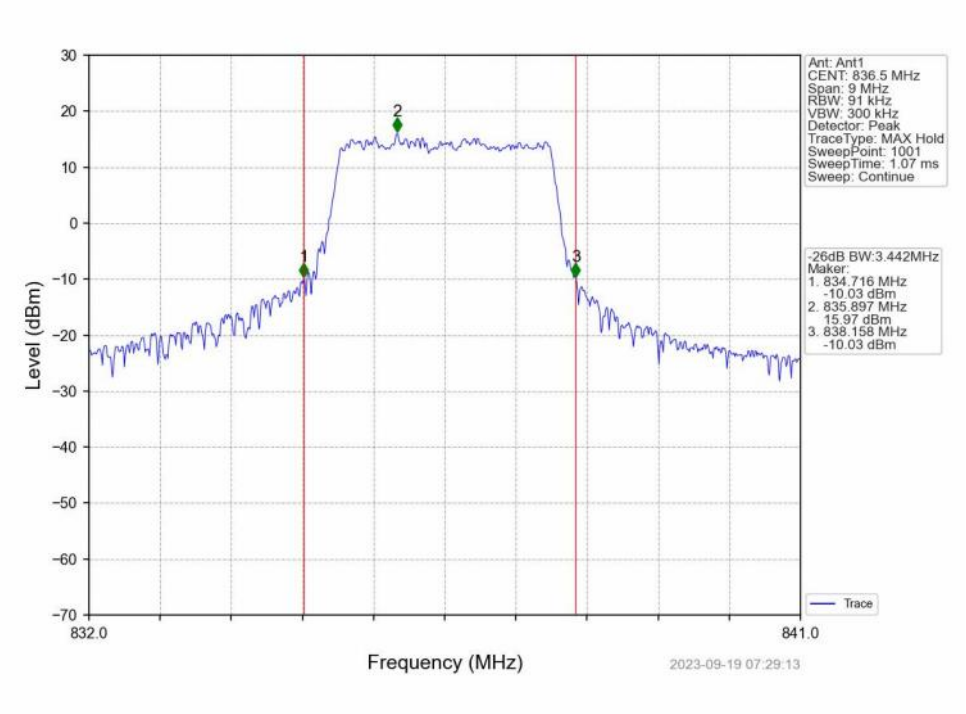
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



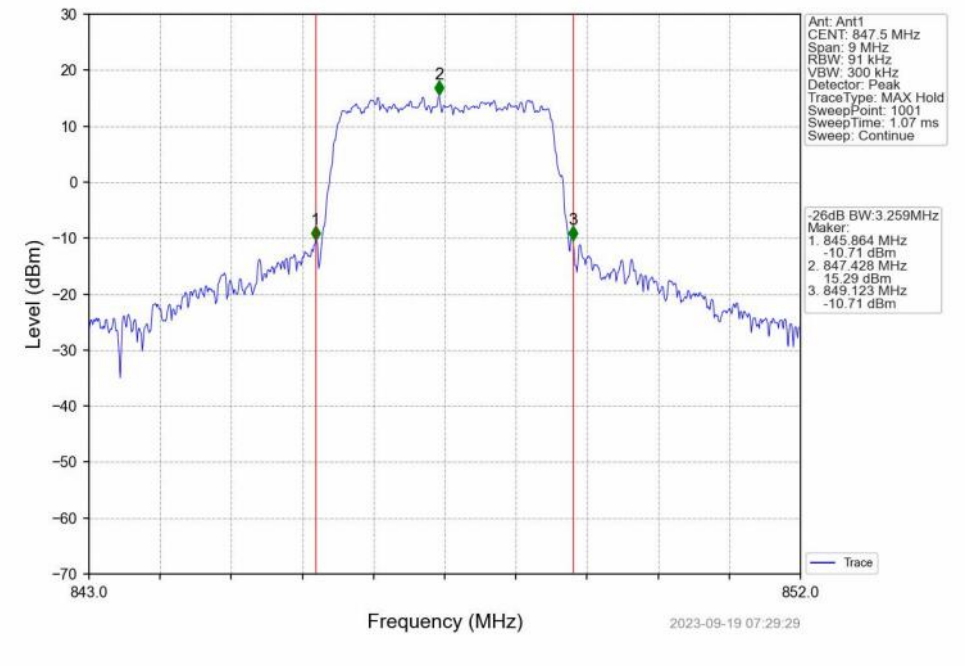

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



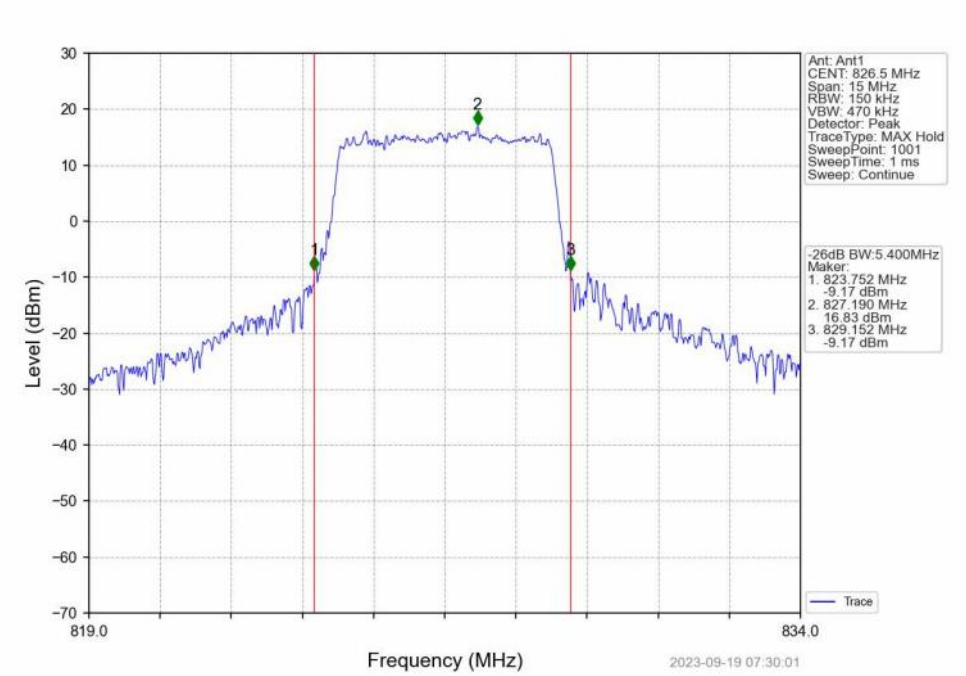
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



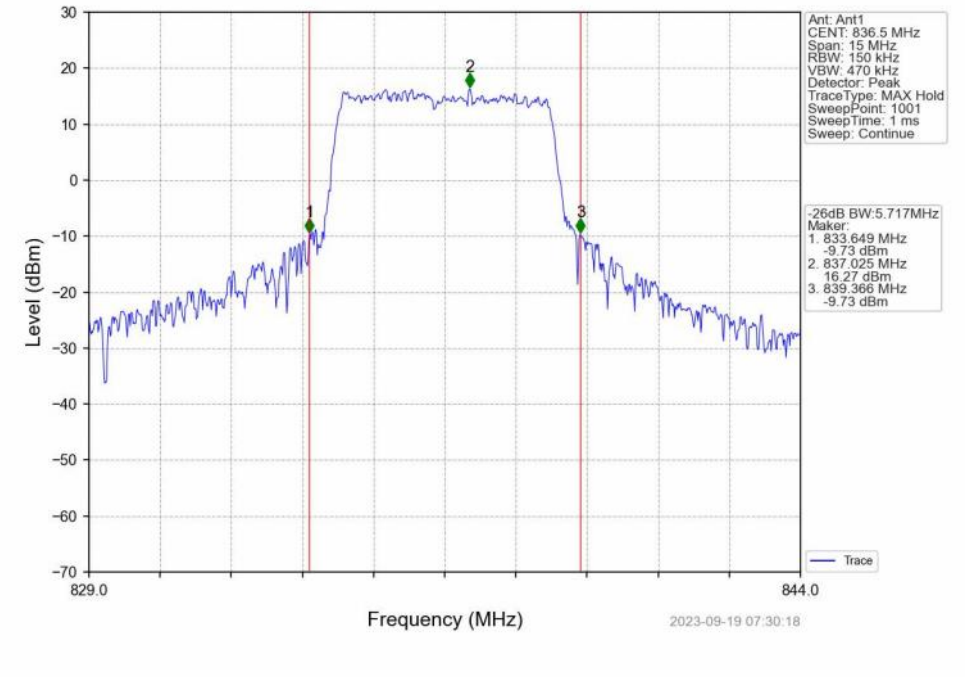

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



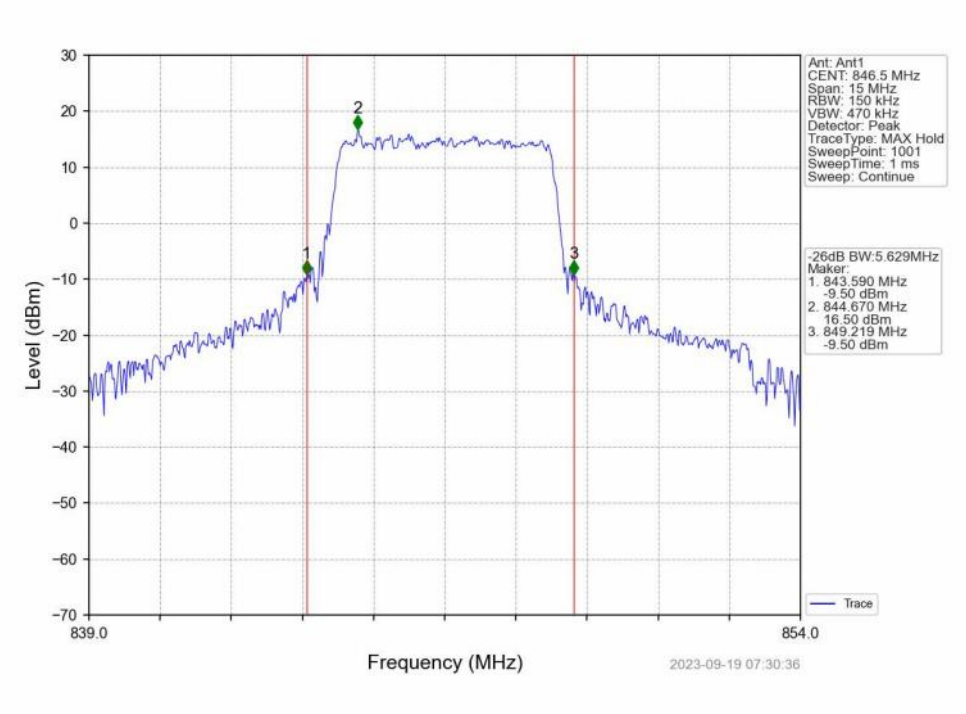
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



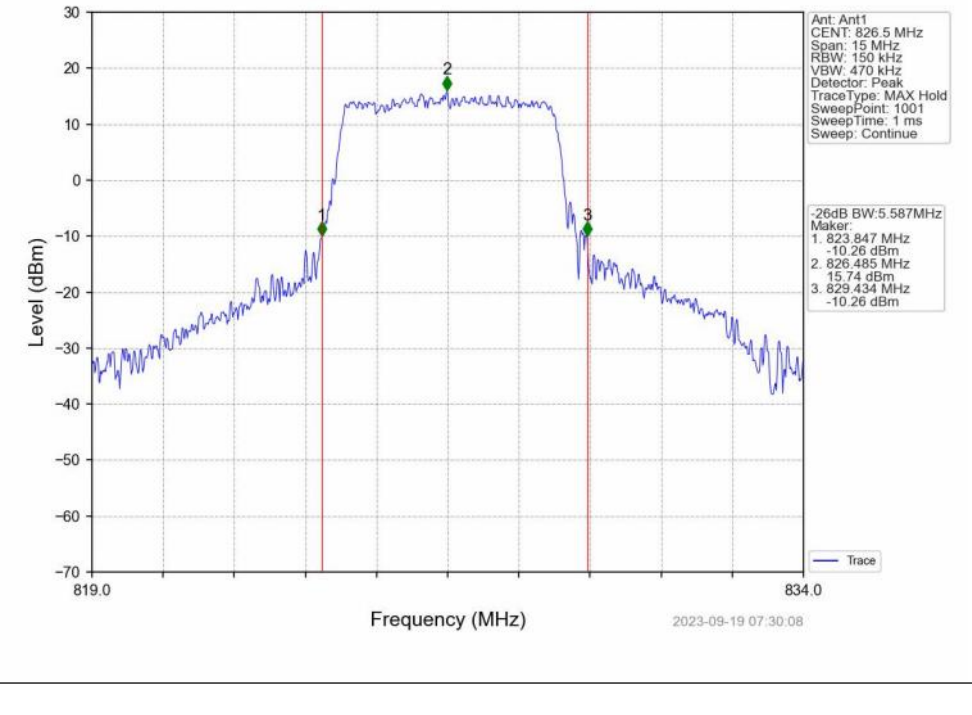

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



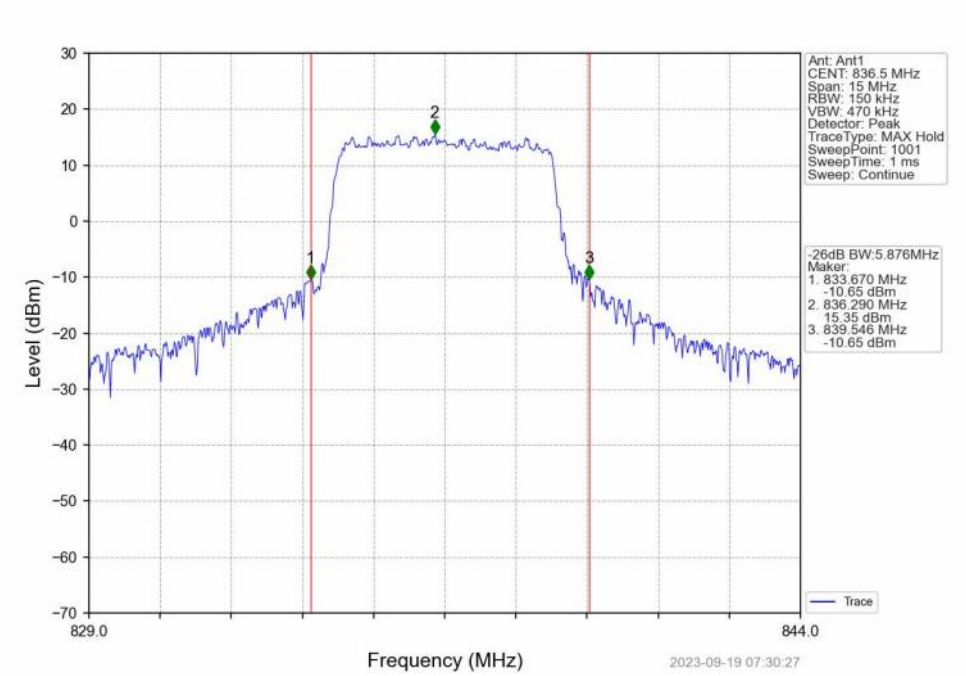
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



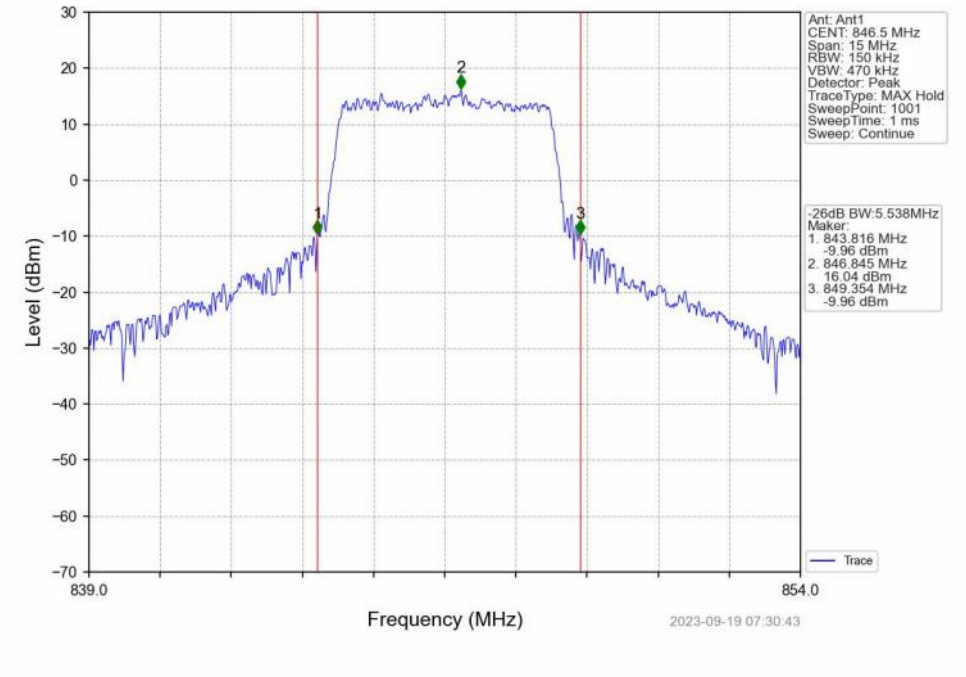

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



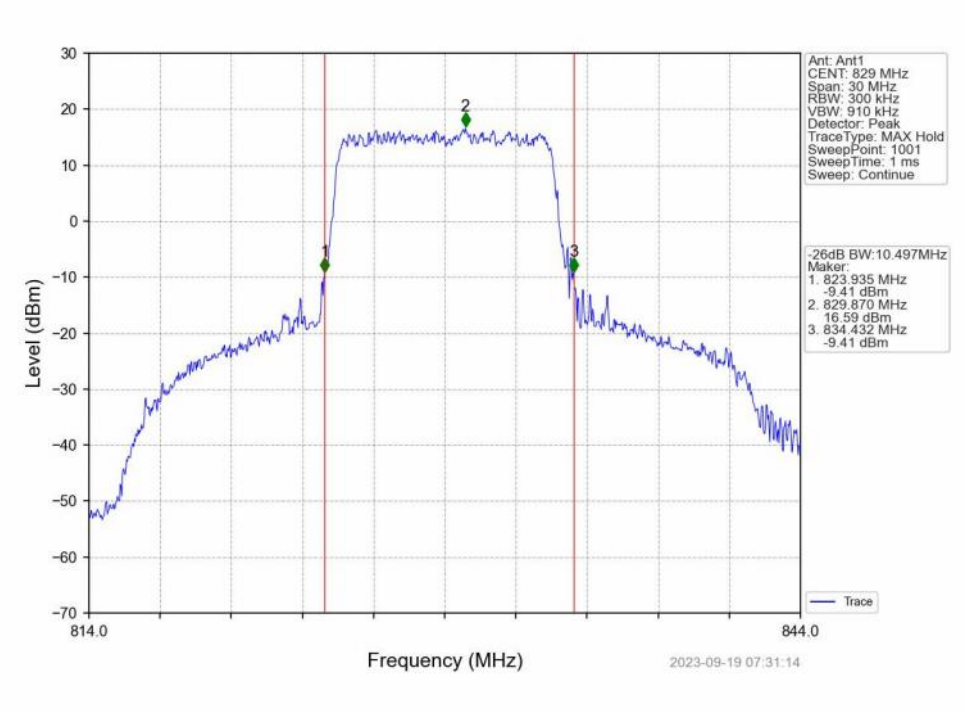
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



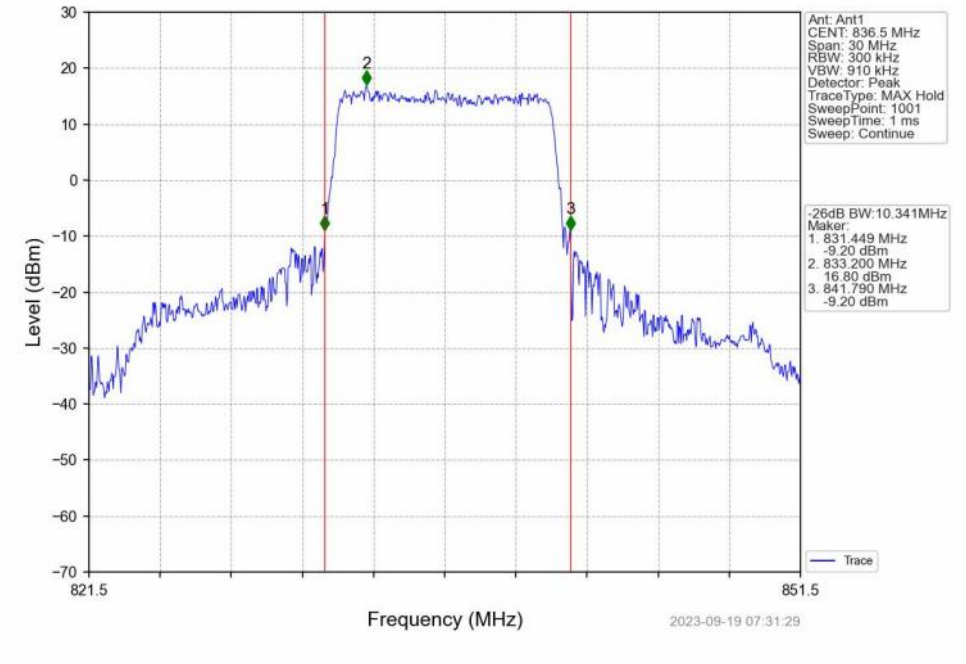

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



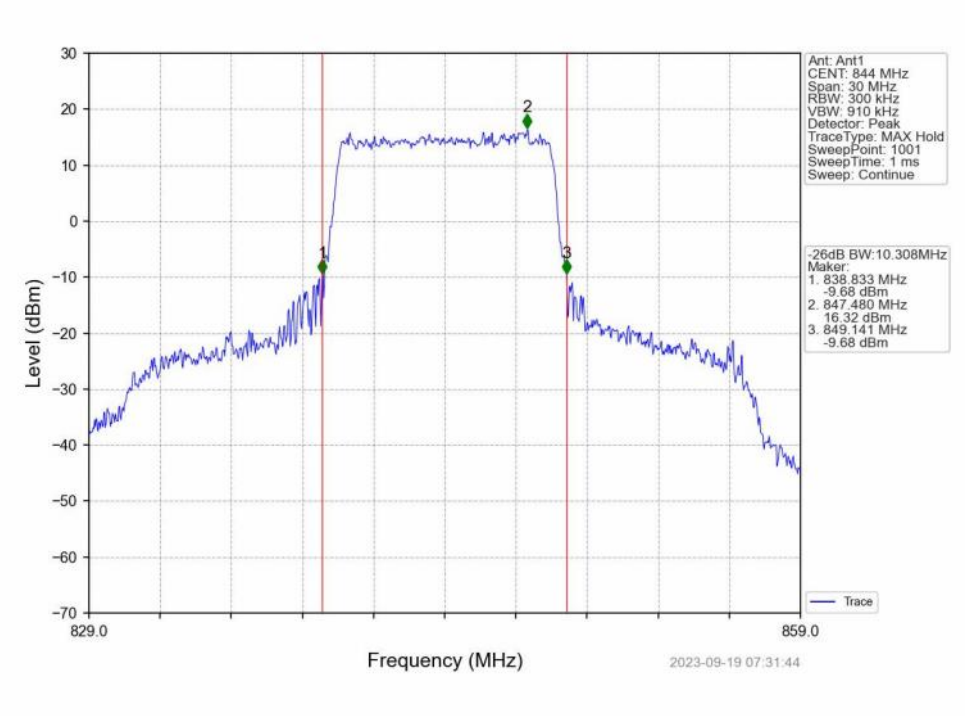
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



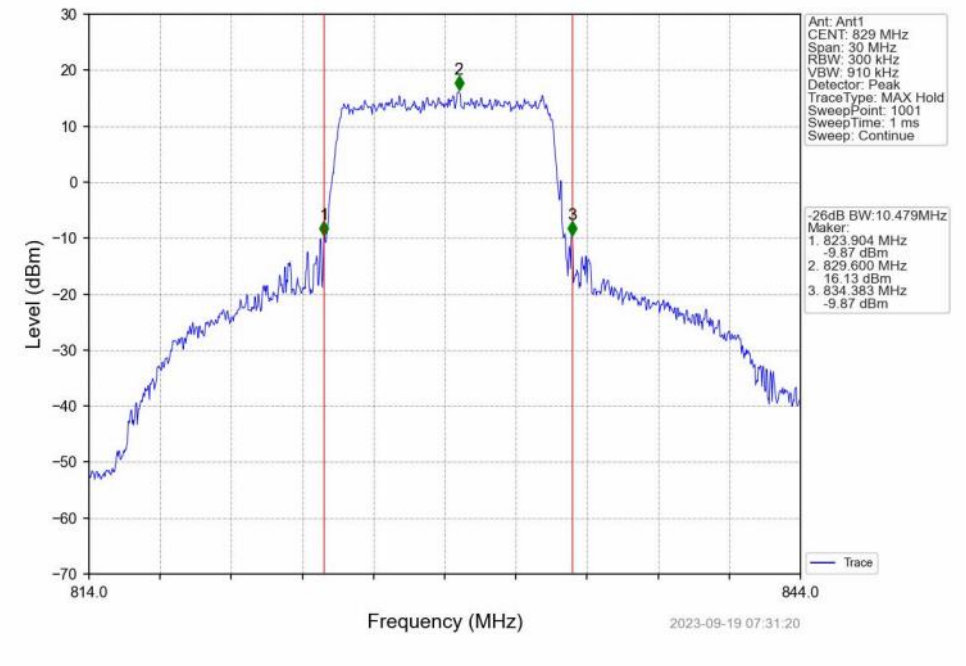

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



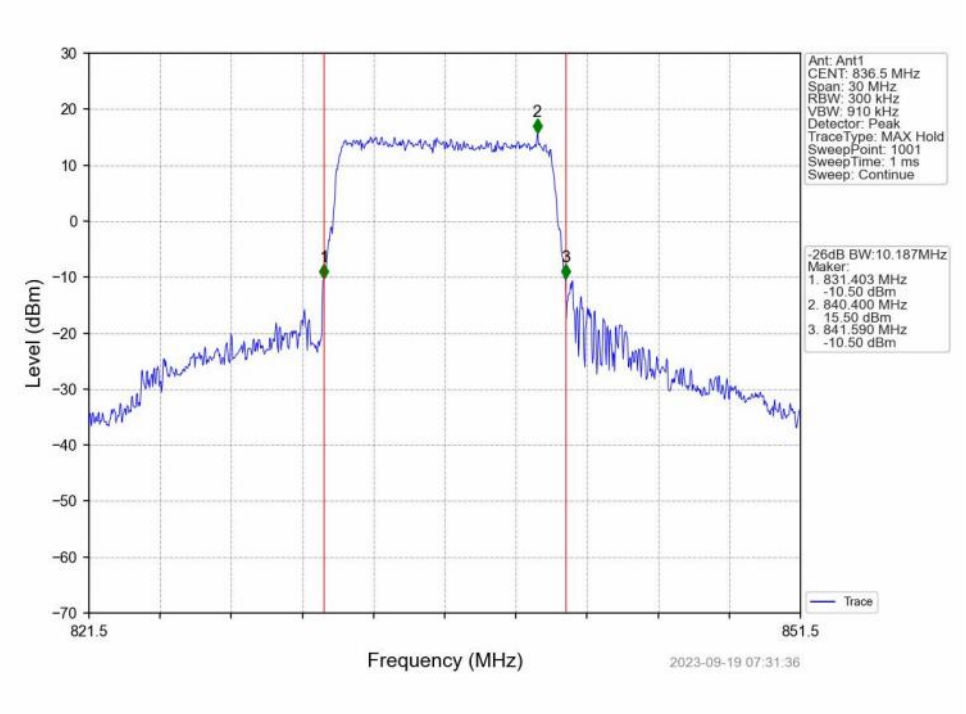
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



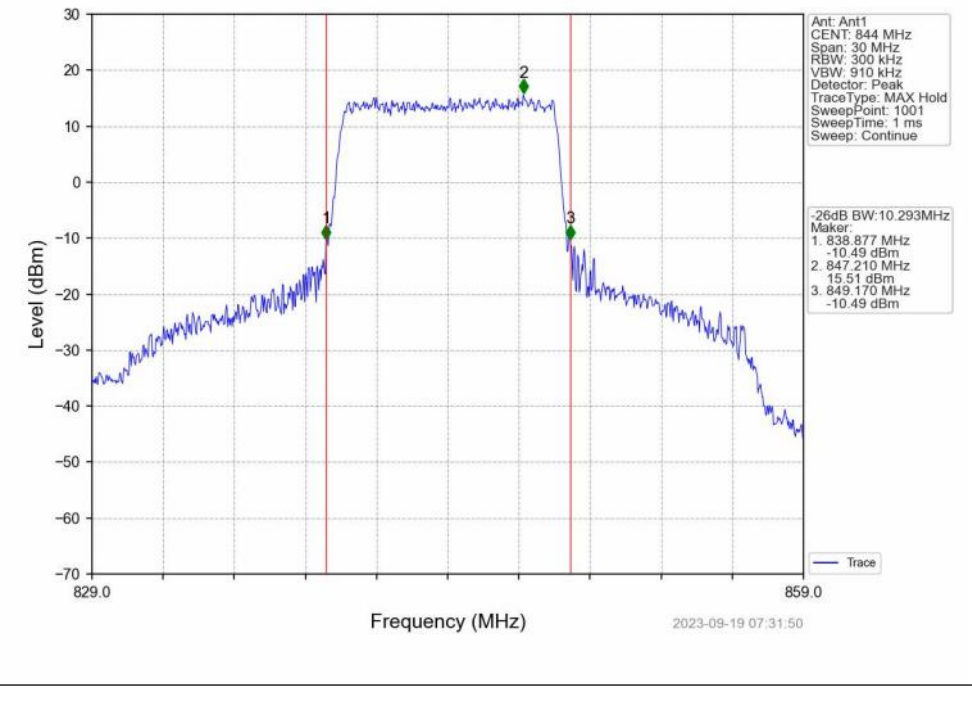

Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV




Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



# 5. Peak-Average Ratio

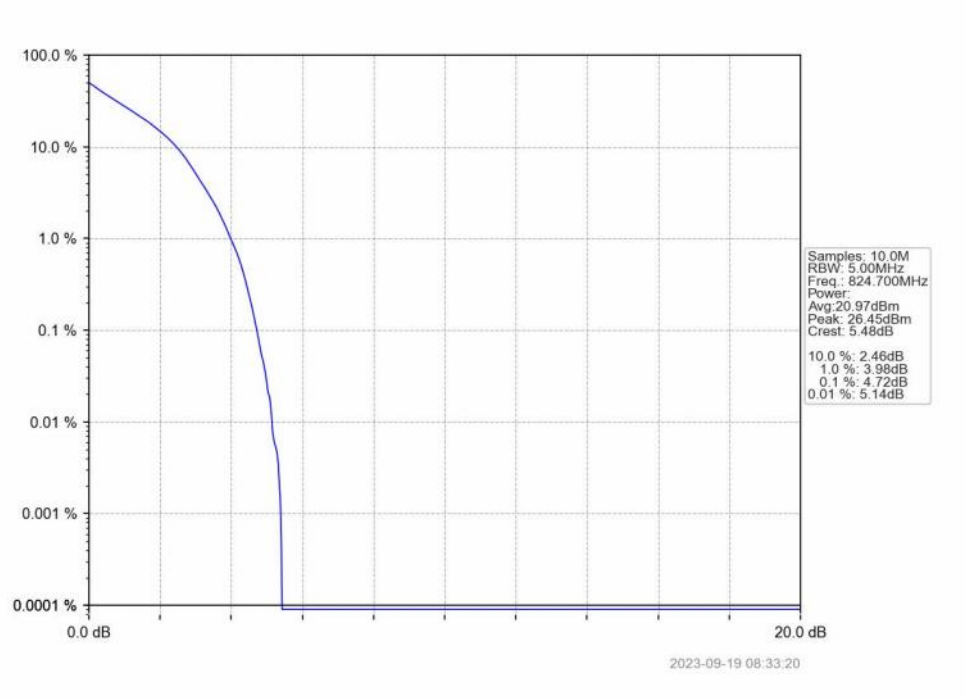
## 5.1 B5_1.4MHz

### 5.1.1 Test Result

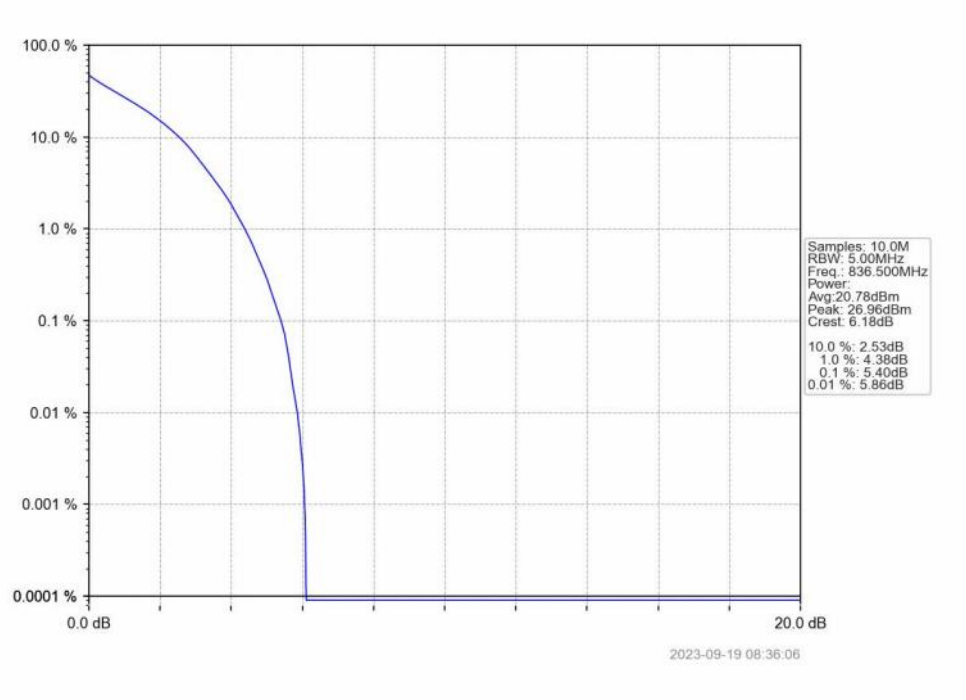
| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 824.7 | 6 | 0 | 4.72 | <=13 | Pass |
| | 836.5 | 6 | 0 | 5.40 | <=13 | Pass |
| | 848.3 | 6 | 0 | 3.97 | <=13 | Pass |
| 16QAM | 824.7 | 6 | 0 | 5.47 | <=13 | Pass |
| | 836.5 | 6 | 0 | 5.39 | <=13 | Pass |
| | 848.3 | 6 | 0 | 3.92 | <=13 | Pass |

## 5.1.2 Test Graph

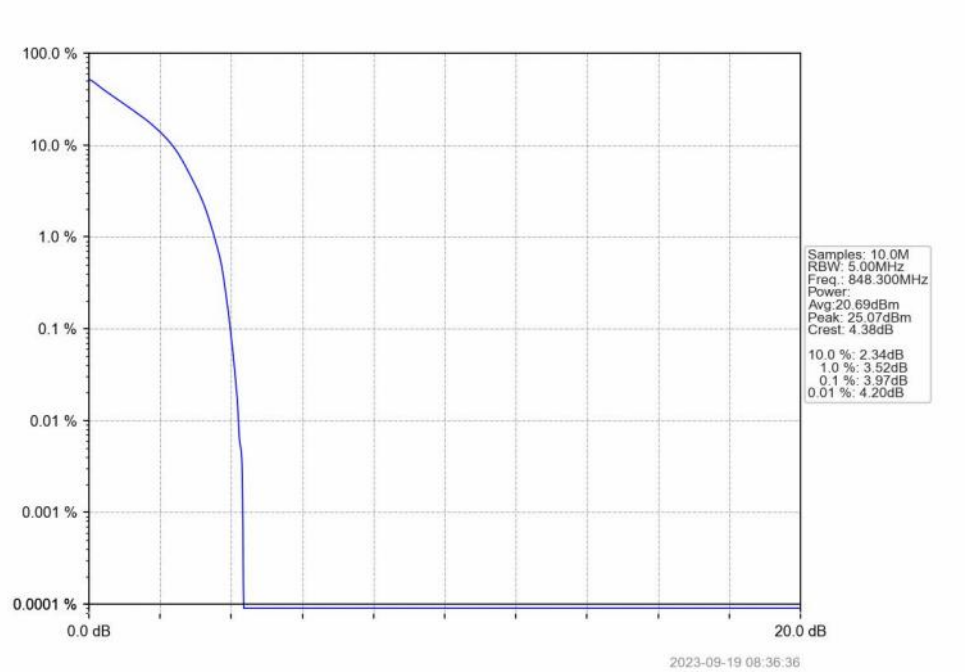
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



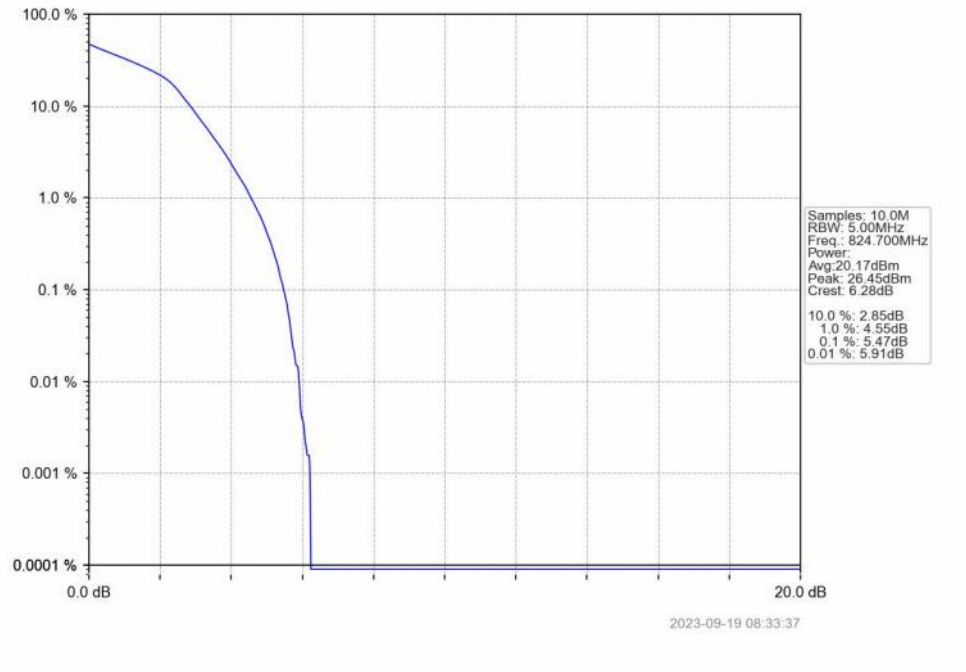

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



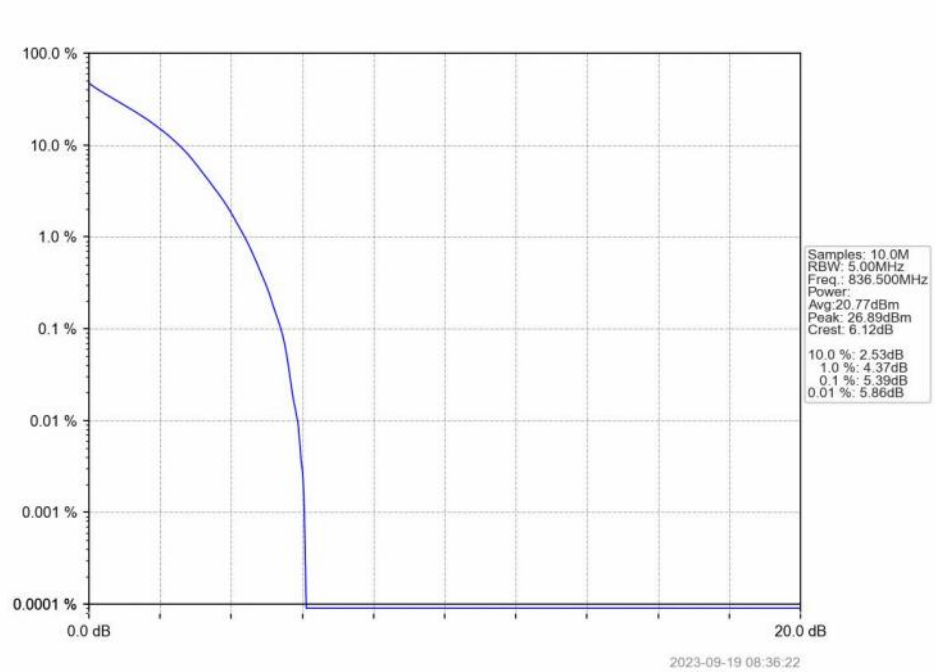
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



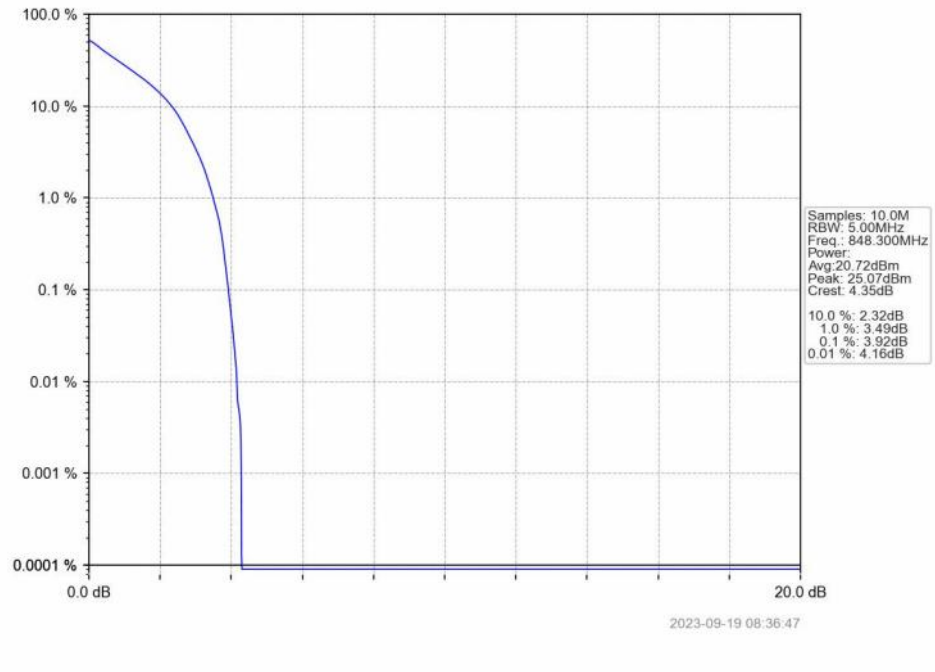

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV




Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



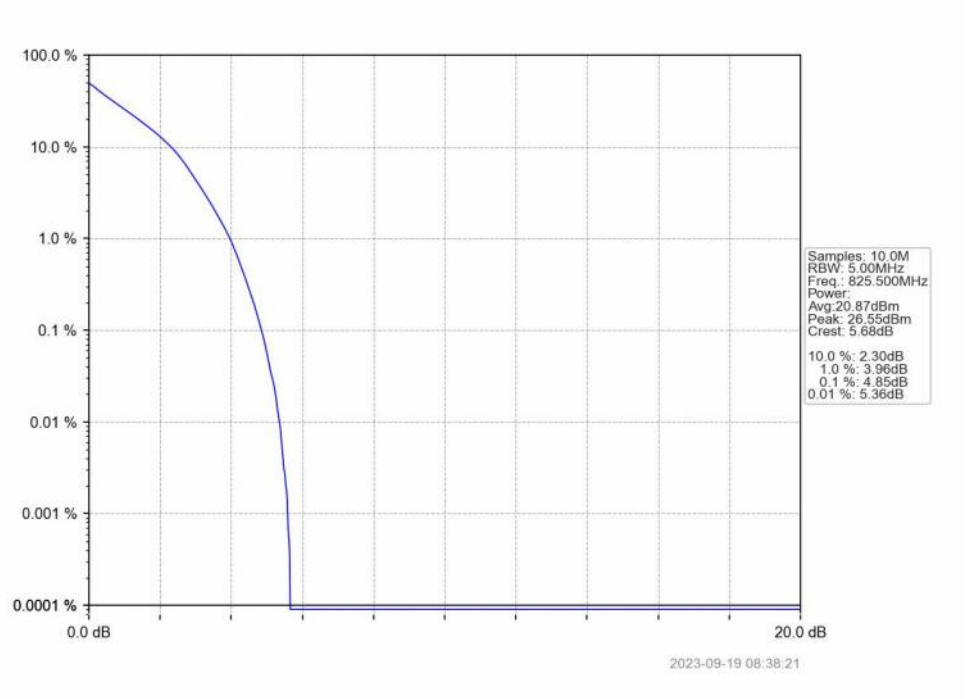
## 5.2 B5_3MHz

### 5.2.1 Test Result

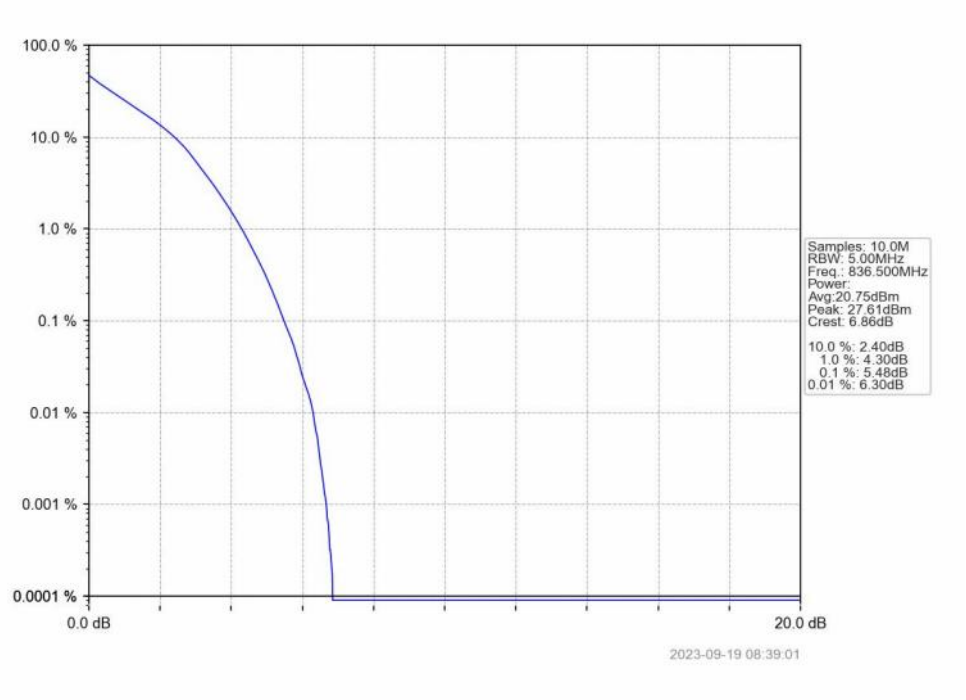
| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 825.5 | 15 | 0 | 4.85 | <=13 | Pass |
| | 836.5 | 15 | 0 | 5.48 | <=13 | Pass |
| | 847.5 | 15 | 0 | 4.42 | <=13 | Pass |
| 16QAM | 825.5 | 15 | 0 | 5.55 | <=13 | Pass |
| | 836.5 | 15 | 0 | 6.21 | <=13 | Pass |
| | 847.5 | 15 | 0 | 5.18 | <=13 | Pass |

## 5.2.2 Test Graph

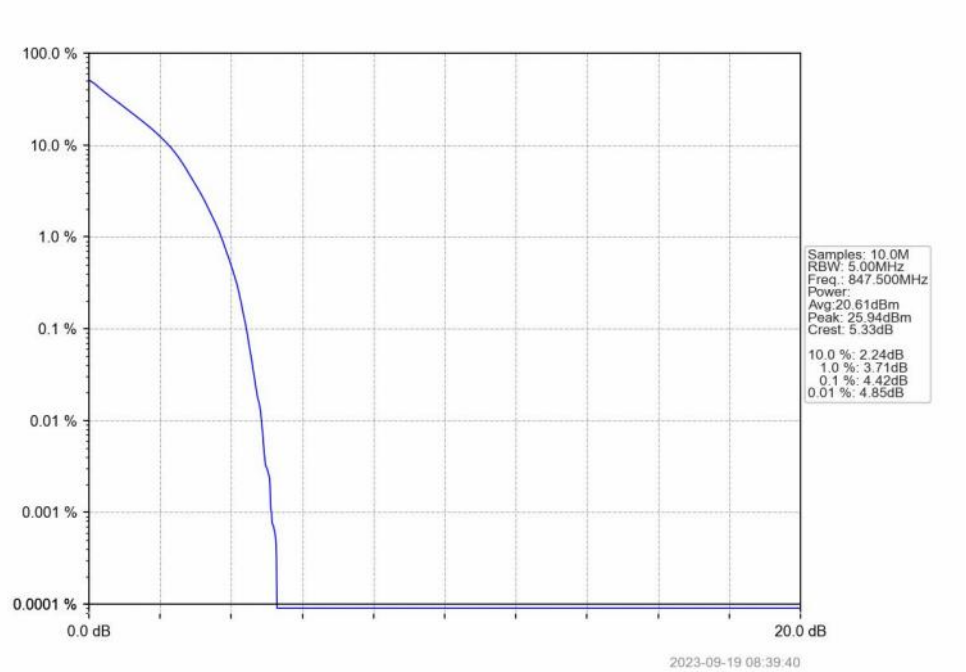
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



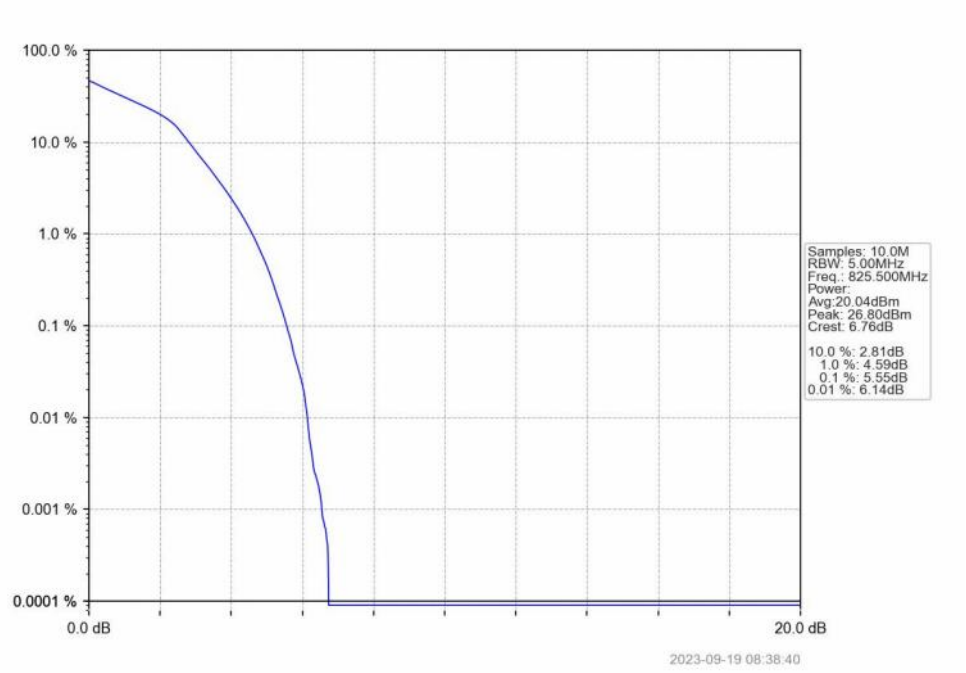

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



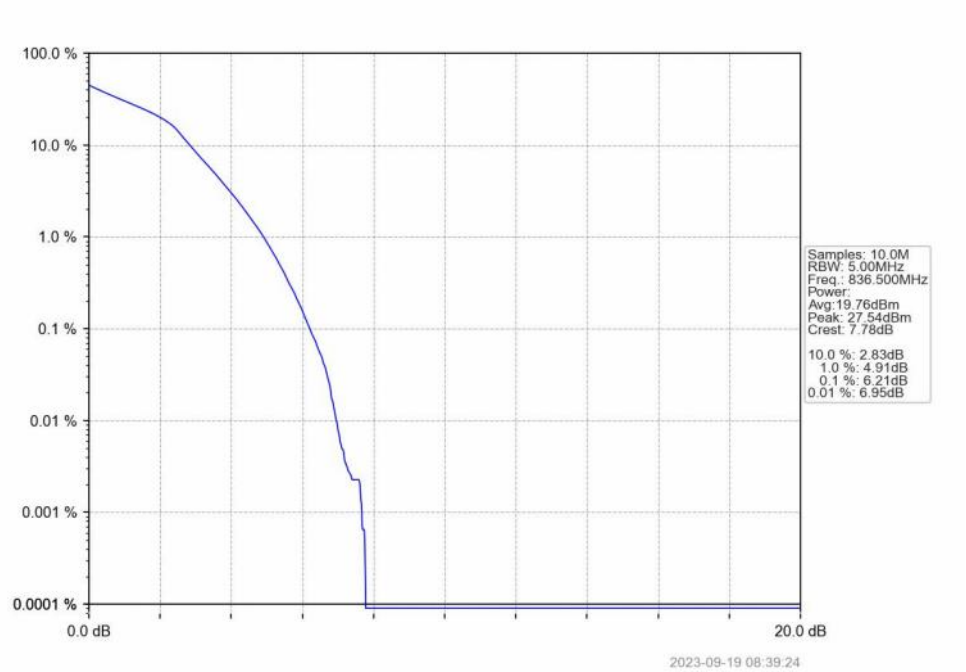
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



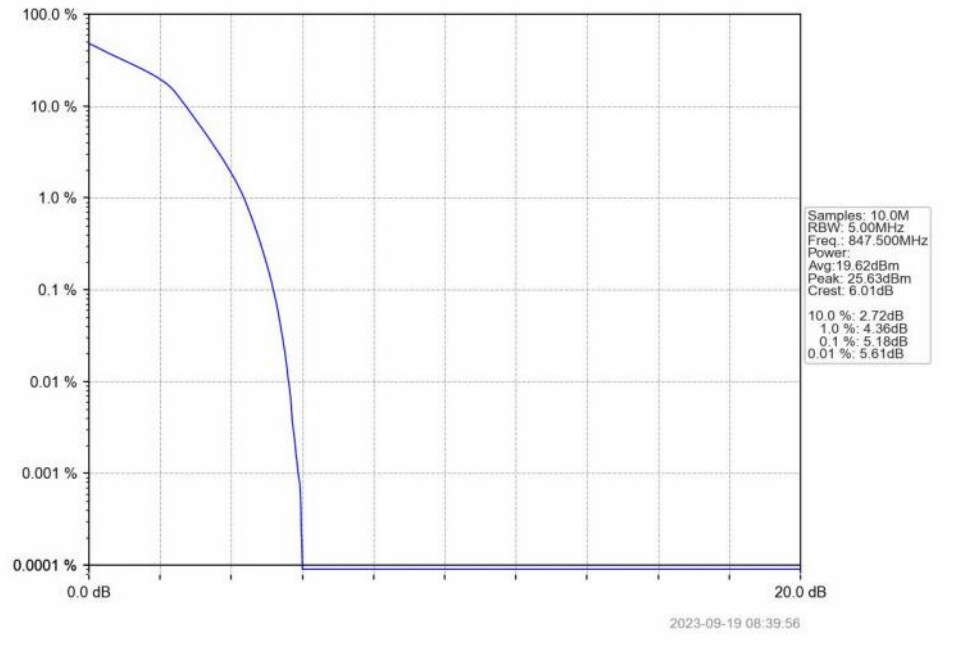

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV




Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



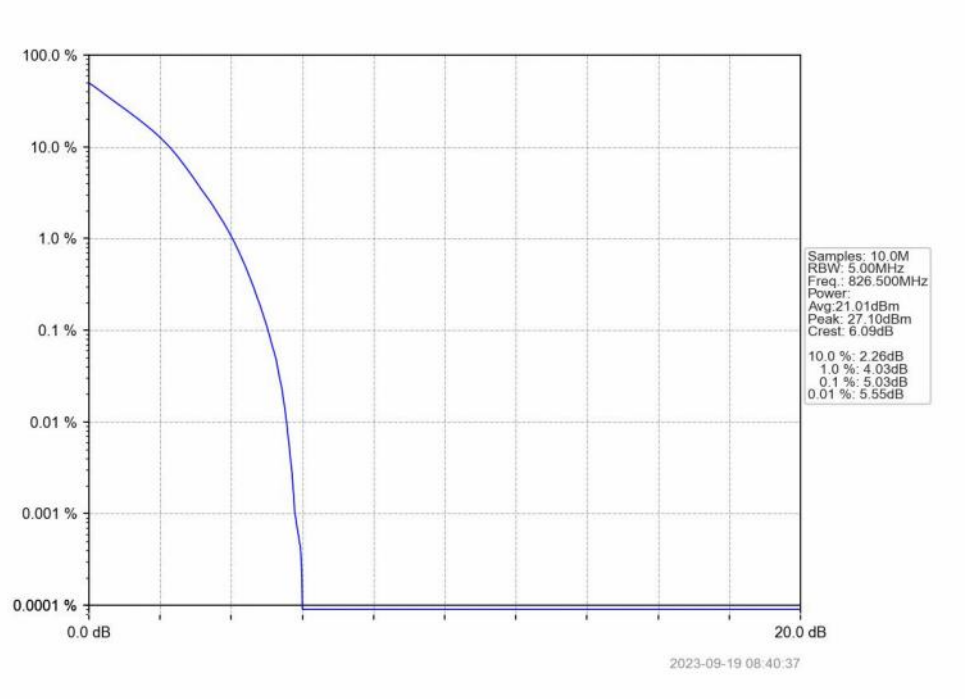
## 5.3 B5_5MHz

### 5.3.1 Test Result

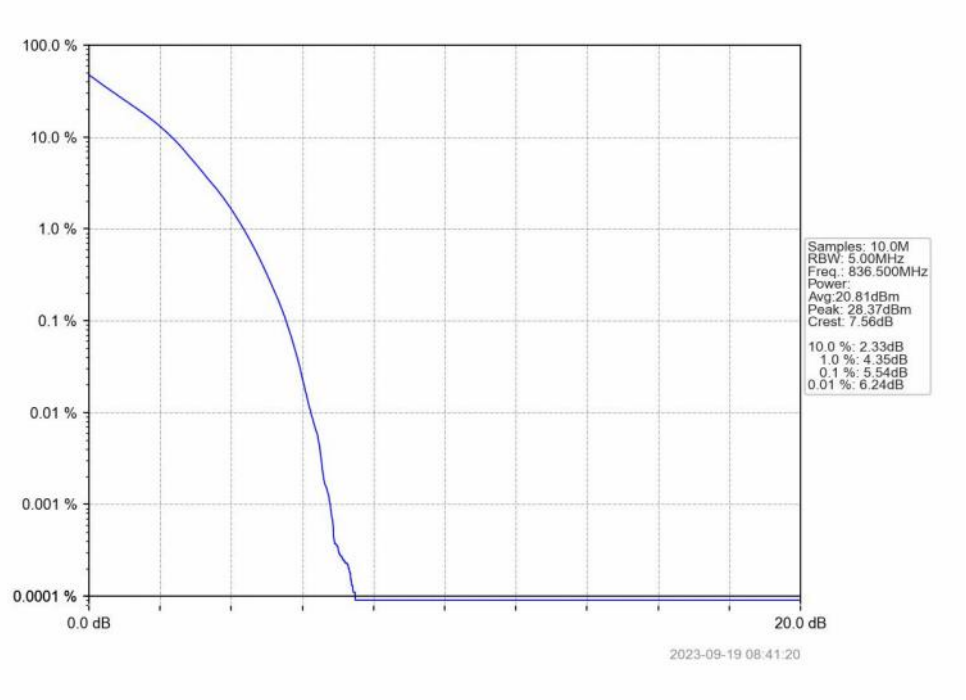
| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 826.5 | 25 | 0 | 5.03 | <=13 | Pass |
| | 836.5 | 25 | 0 | 5.54 | <=13 | Pass |
| | 846.5 | 25 | 0 | 4.97 | <=13 | Pass |
| 16QAM | 826.5 | 25 | 0 | 5.76 | <=13 | Pass |
| | 836.5 | 25 | 0 | 6.22 | <=13 | Pass |
| | 846.5 | 25 | 0 | 5.62 | <=13 | Pass |

## 5.3.2 Test Graph

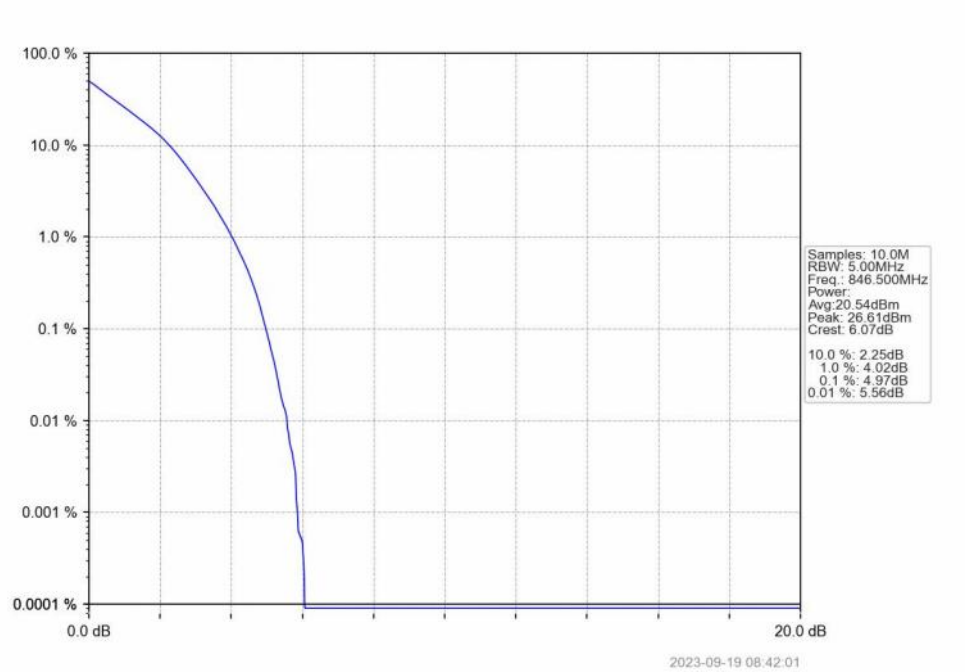
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



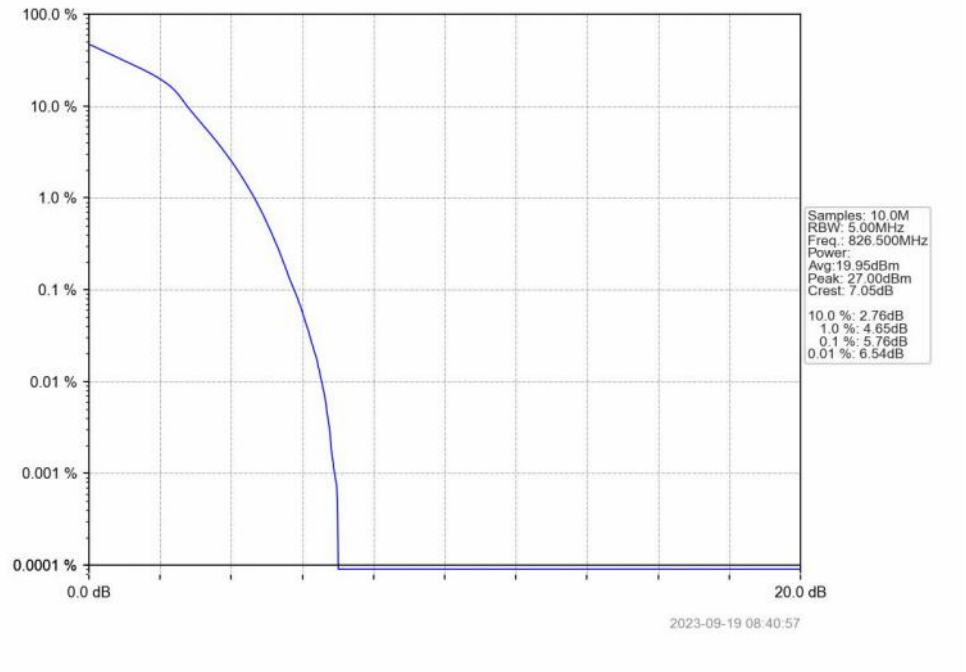

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



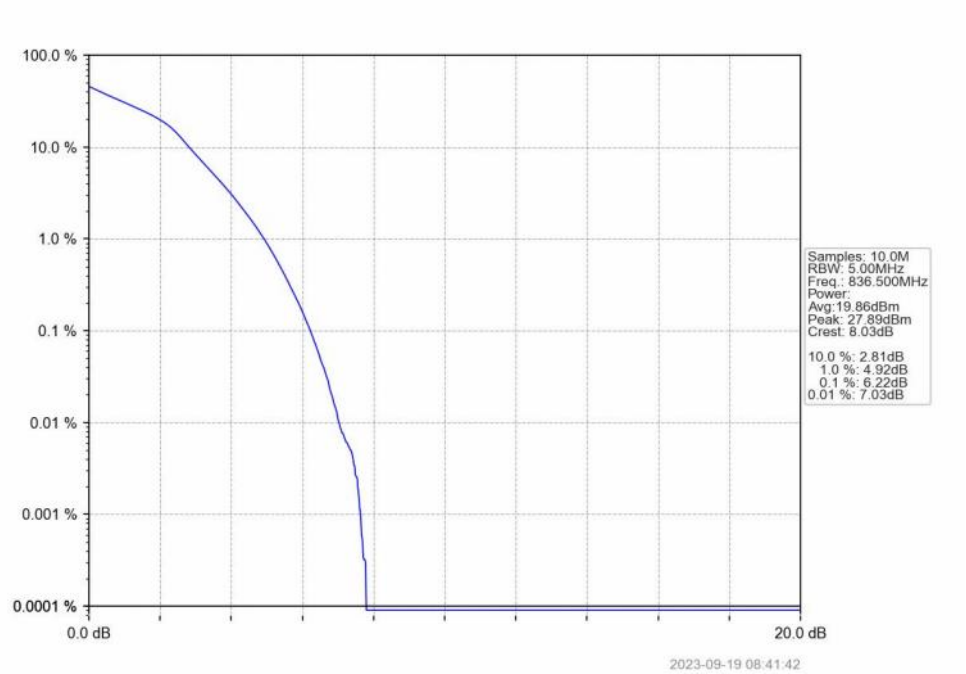
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



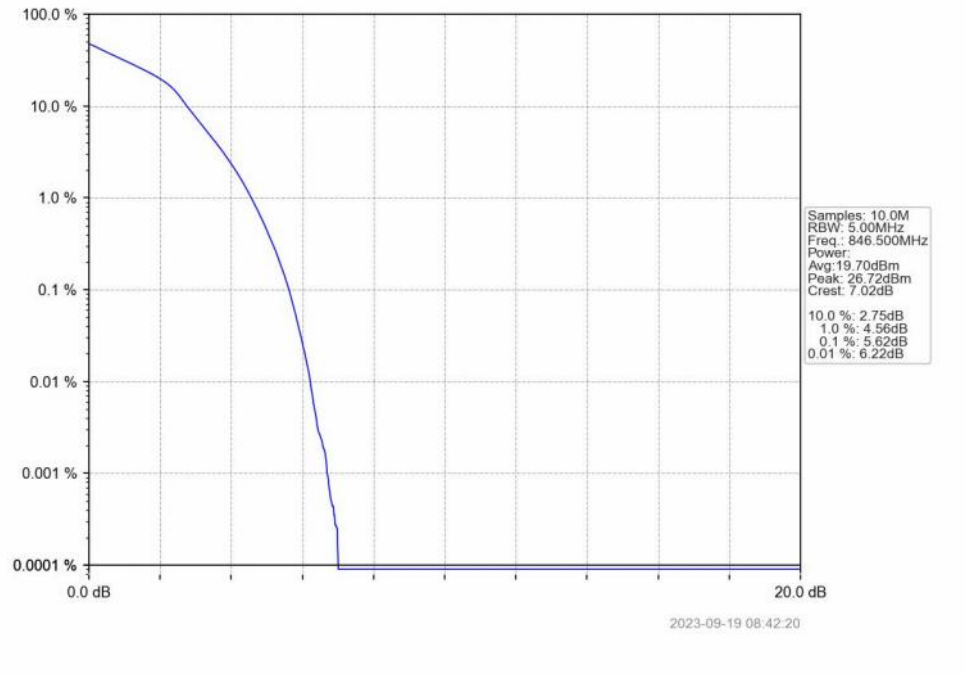

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV




Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



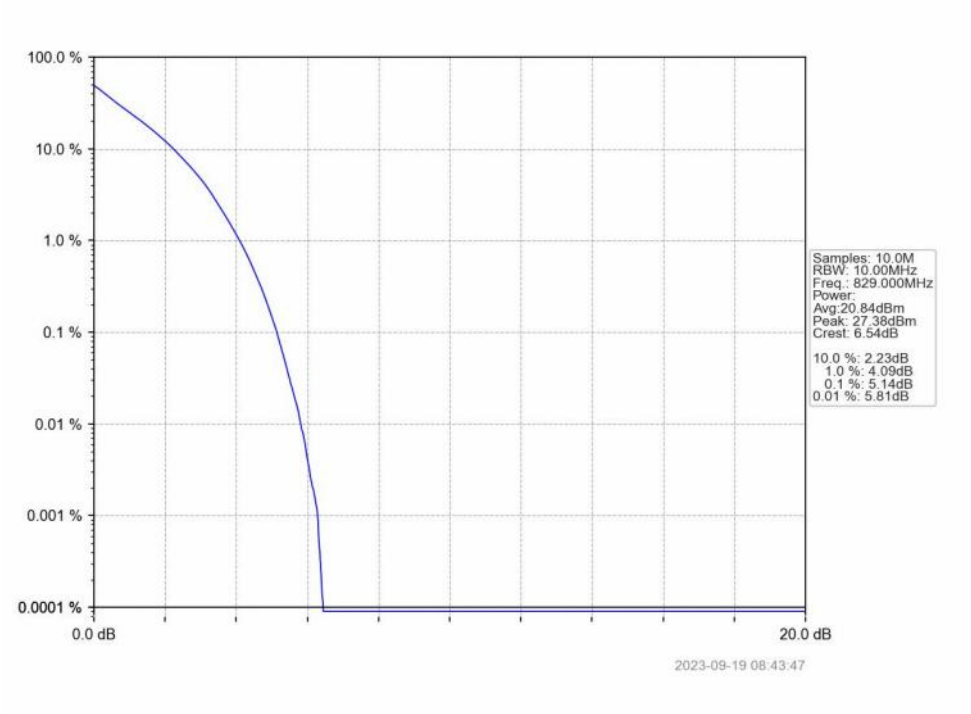
## 5.4 B5_10MHz

### 5.4.1 Test Result

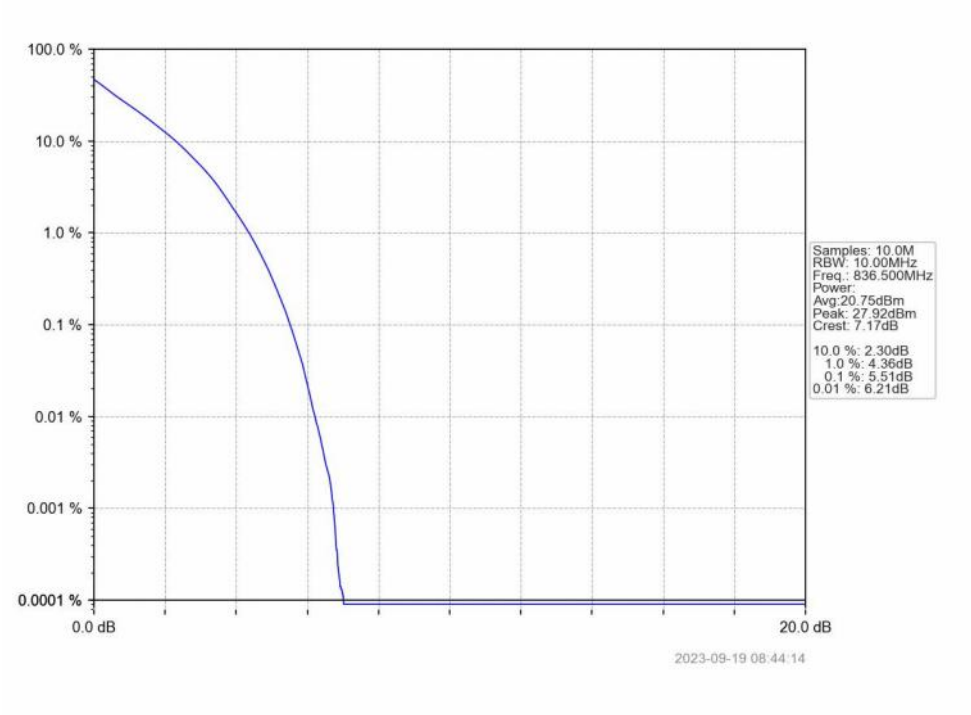
| Band: 5 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 829 | 50 | 0 | 5.14 | <=13 | Pass |
| | 836.5 | 50 | 0 | 5.51 | <=13 | Pass |
| | 844 | 50 | 0 | 5.22 | <=13 | Pass |
| 16QAM | 829 | 50 | 0 | 5.76 | <=13 | Pass |
| | 836.5 | 50 | 0 | 6.23 | <=13 | Pass |
| | 844 | 50 | 0 | 5.96 | <=13 | Pass |

## 5.4.2 Test Graph

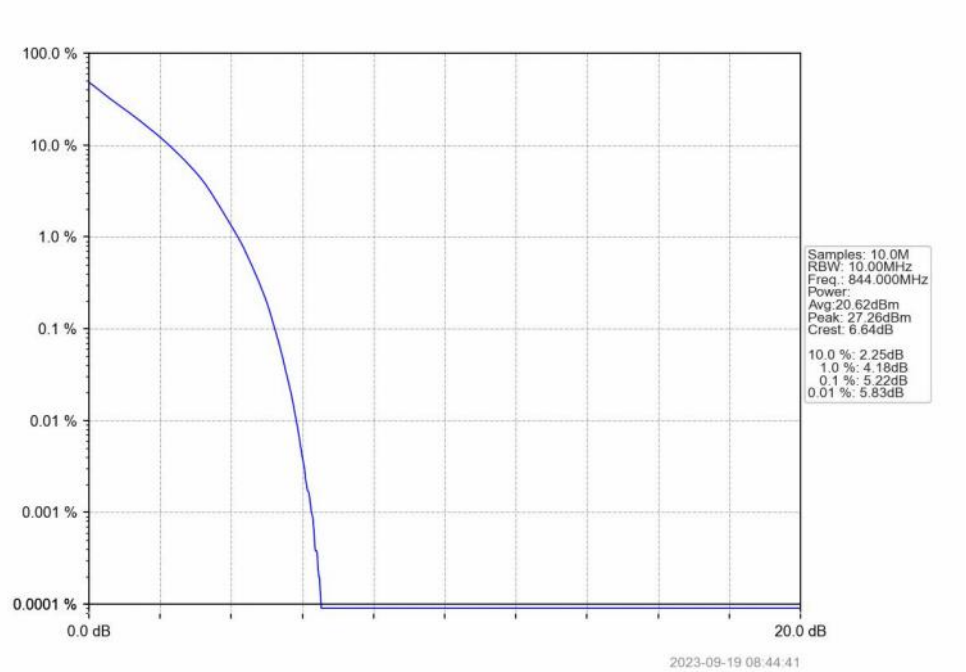
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



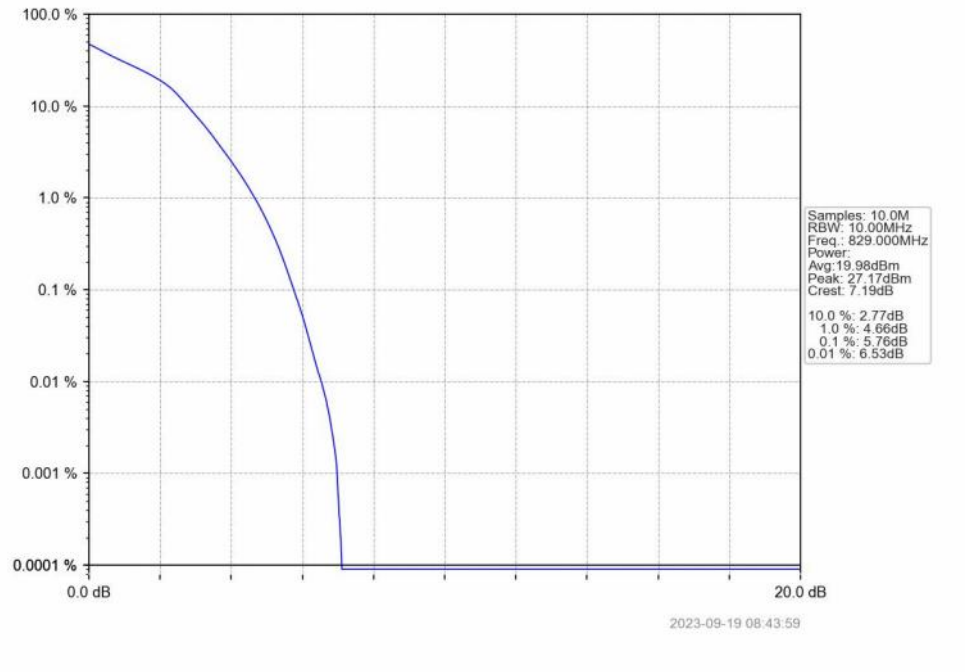

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



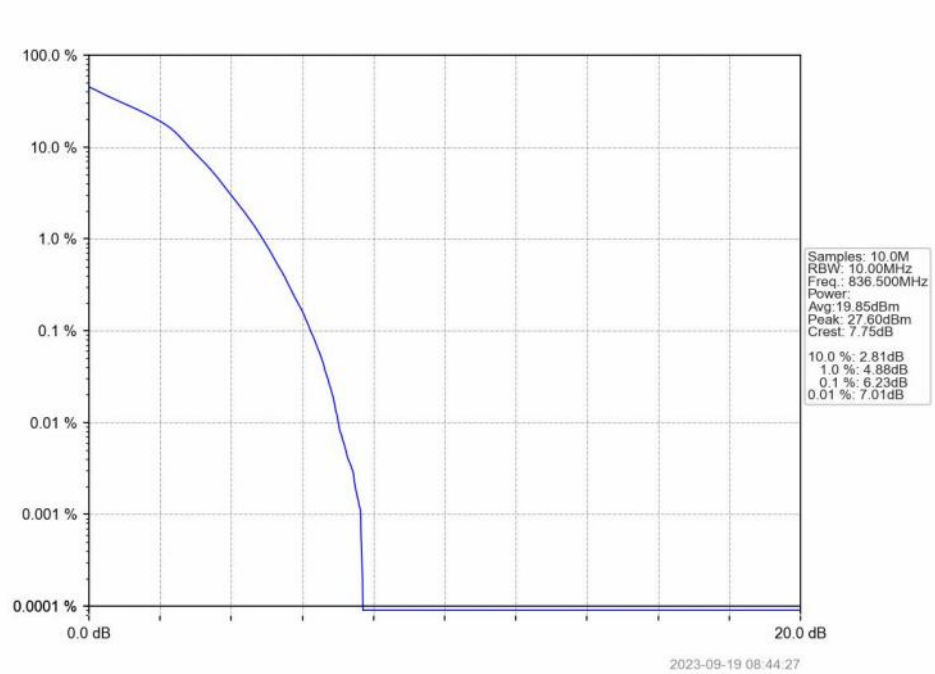
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



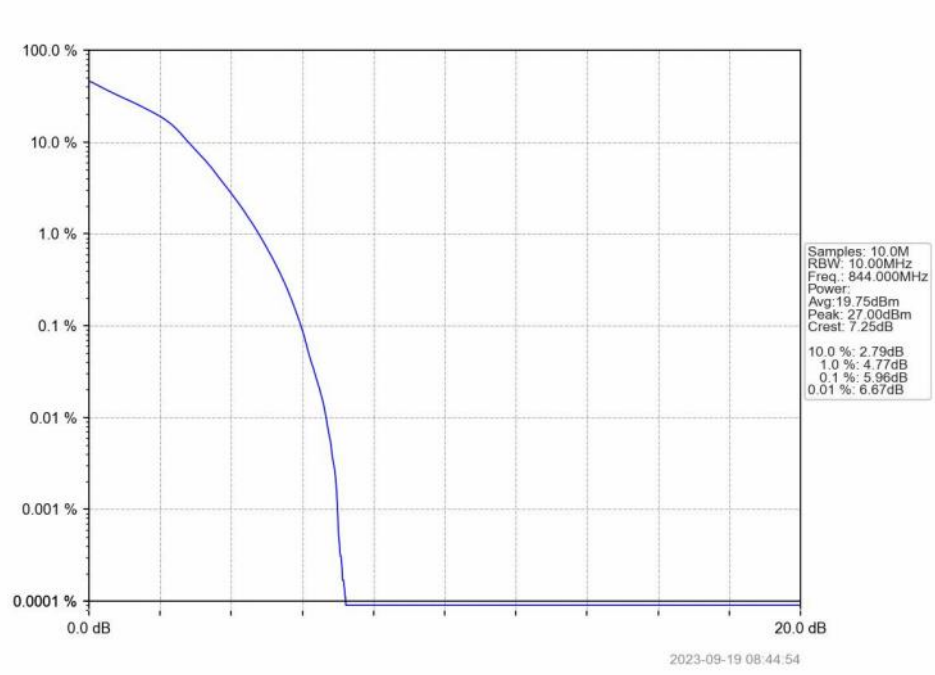

Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV




Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



# 6. Spurious Emission

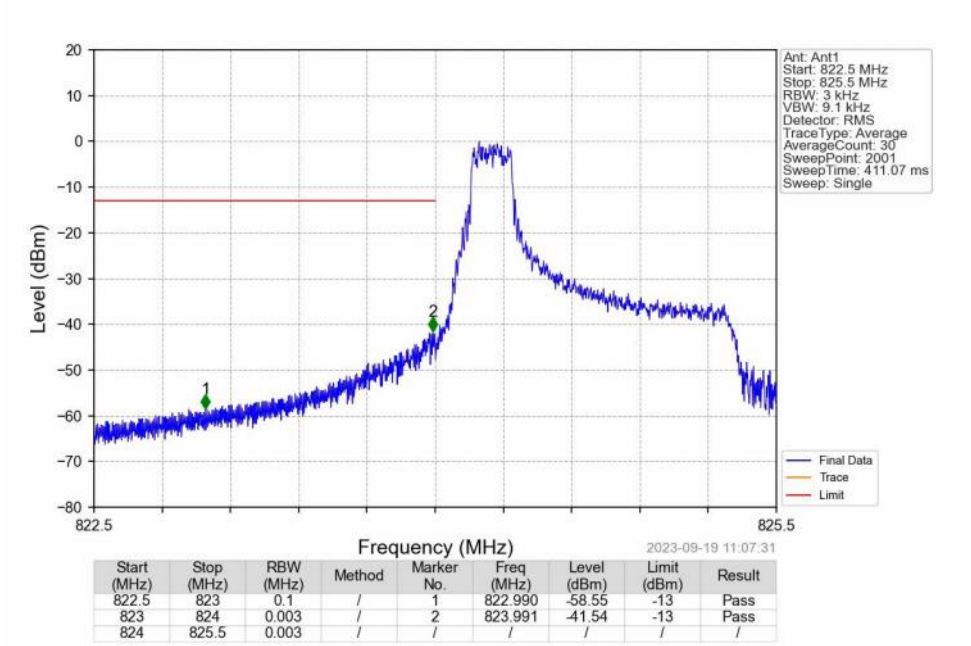
## 6.1 B5_1.4MHz

### 6.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 824.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 848.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 824.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 848.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |

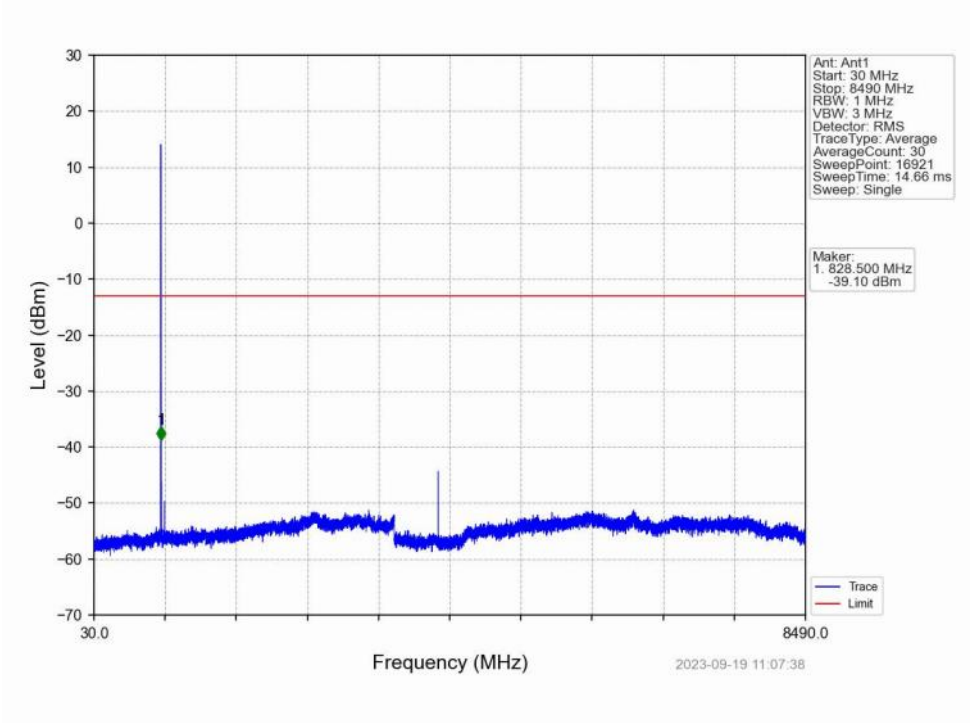
## 6.1.2 Test Graph

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

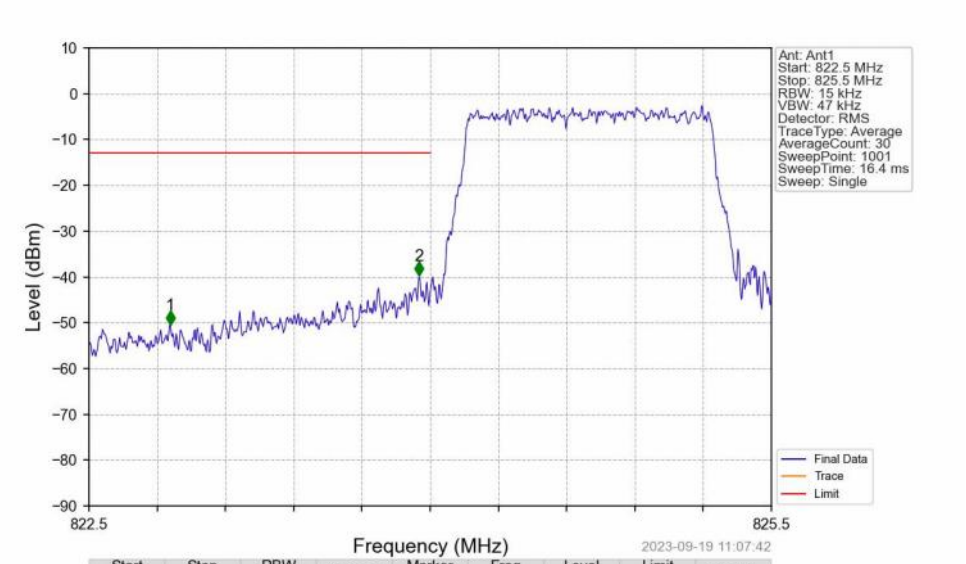



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 822.5 | 823 | 0.1 | / | 1 | 822.990 | -58.55 | -13 | Pass |
| 823 | 824 | 0.003 | / | 2 | 823.991 | -41.54 | -13 | Pass |
| 824 | 825.5 | 0.003 | / | / | / | / | / | / |

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

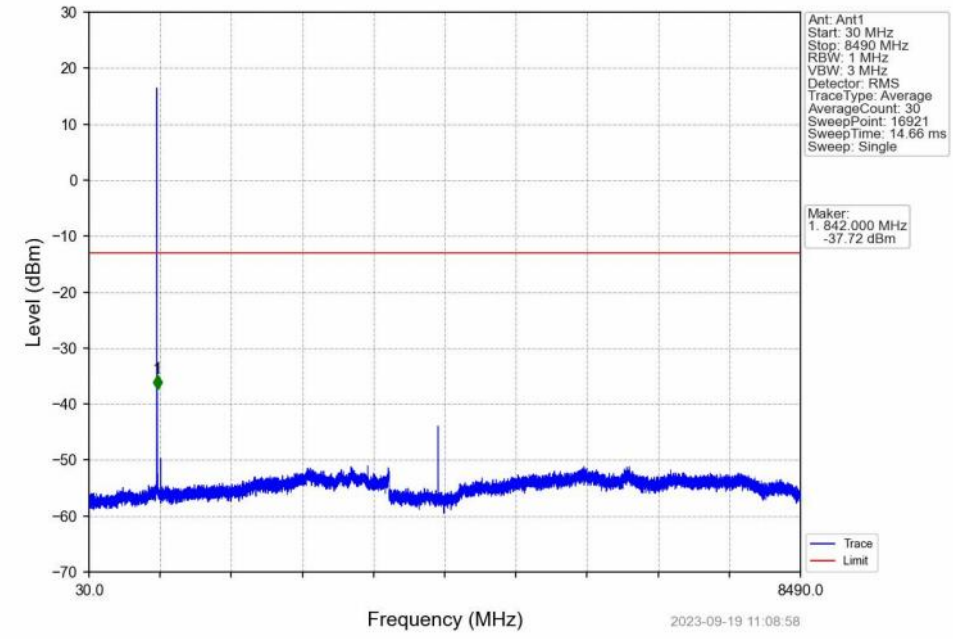


Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

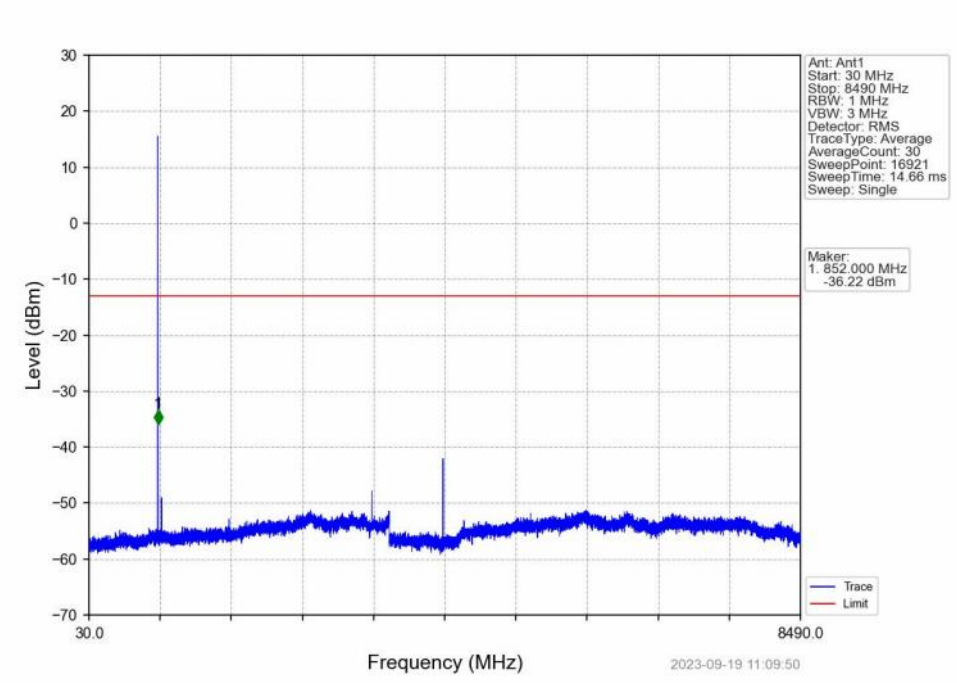



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 822.5 | 823 | 0.1 | / | 1 | 822.857 | -50.49 | -13 | Pass |
| 823 | 824 | 0.015 | / | 2 | 823.952 | -39.76 | -13 | Pass |
| 824 | 825.5 | 0.015 | / | / | / | / | / | / |

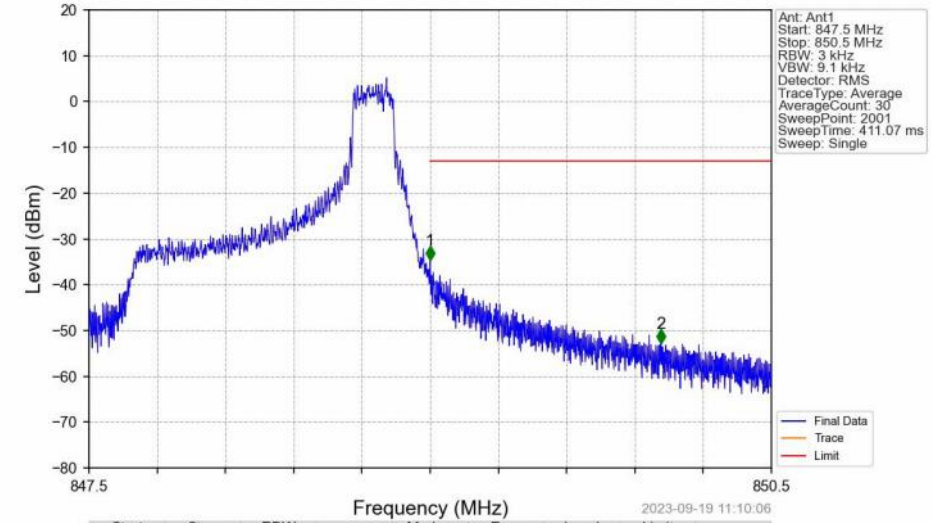
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_0_NTNV

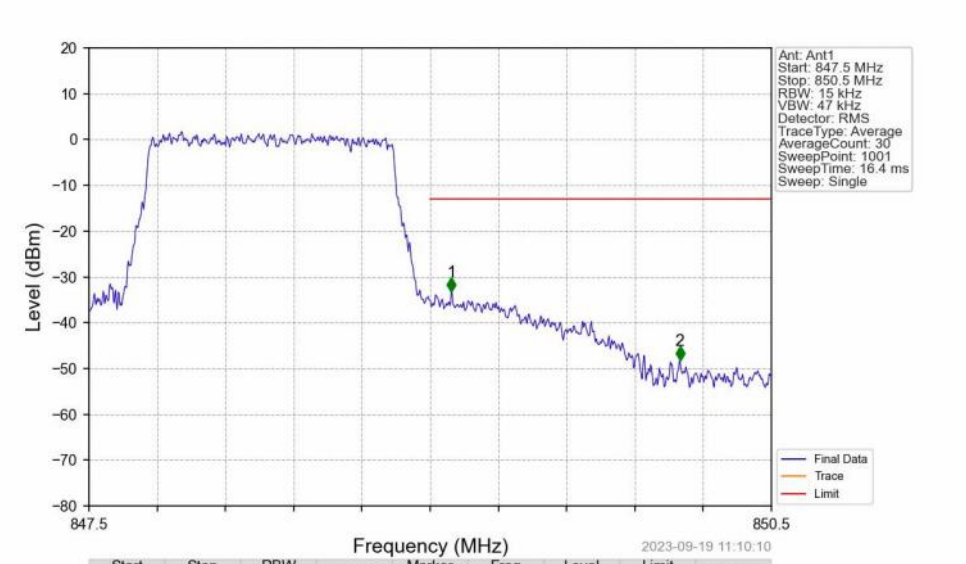



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_5_NTNV



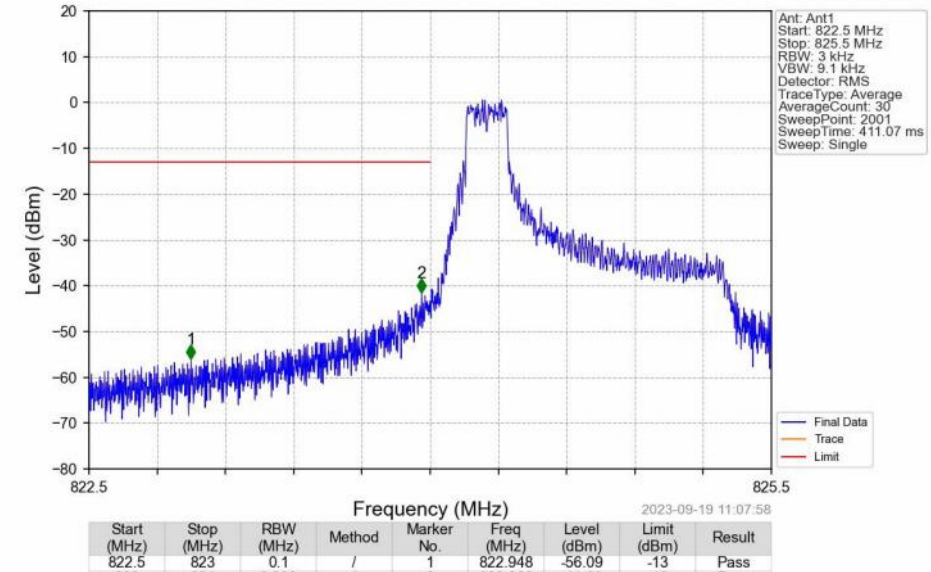

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 847.5 | 849 | 0.003 | / | / | / | / | / | / |
| 849 | 850 | 0.003 | / | 1 | 849.000 | -34.69 | -13 | Pass |
| 850 | 850.5 | 0.1 | / | 2 | 850.014 | -52.78 | -13 | Pass |

Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



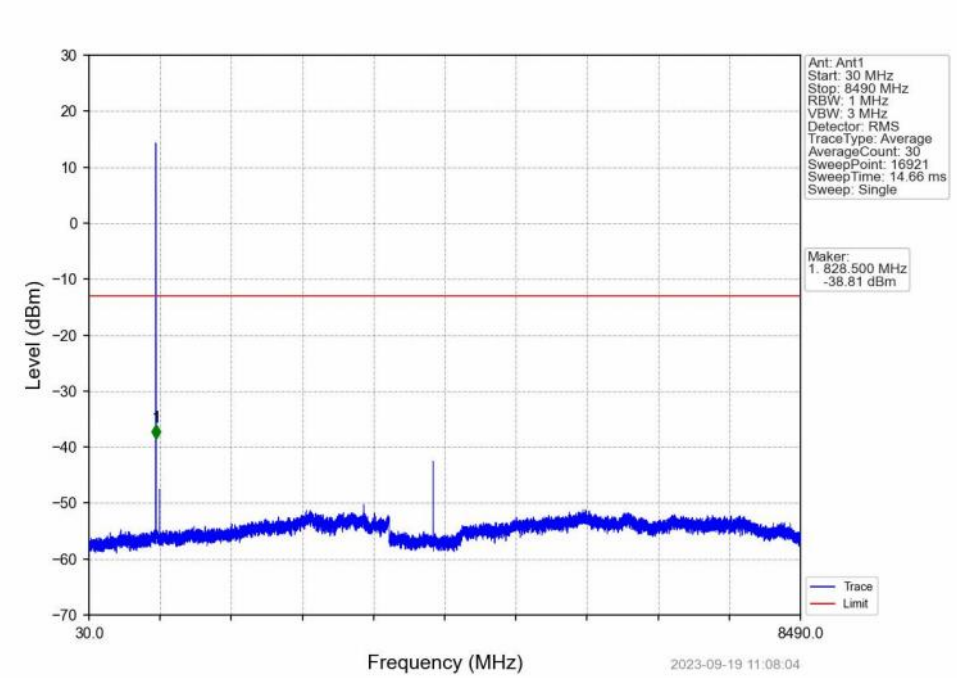

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 847.5 | 849 | 0.015 | / | / | / | / | / | / |
| 849 | 850 | 0.015 | / | 1 | 849.093 | -33.27 | -13 | Pass |
| 850 | 850.5 | 0.1 | / | 2 | 850.098 | -48.22 | -13 | Pass |

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

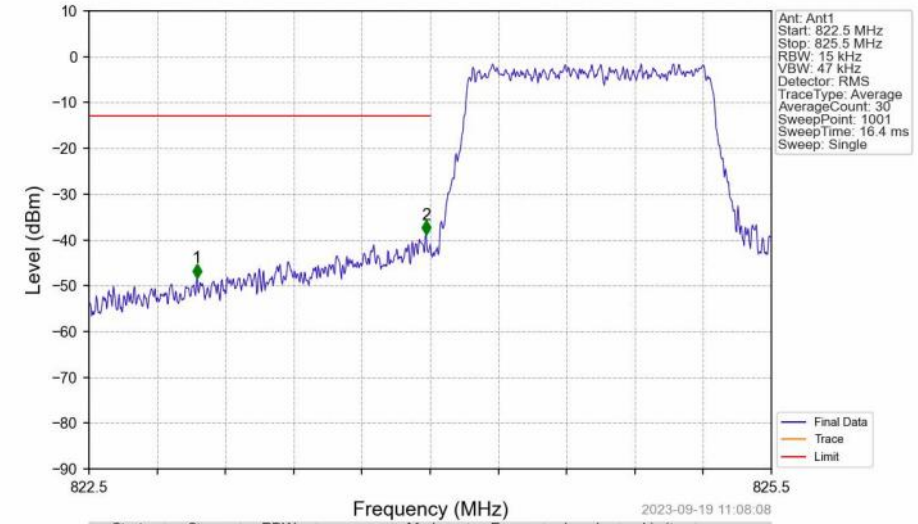



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 822.5 | 823 | 0.1 | / | 1 | 822.948 | -56.09 | -13 | Pass |
| 823 | 824 | 0.003 | / | 2 | 823.962 | -41.63 | -13 | Pass |
| 824 | 825.5 | 0.003 | / | / | / | / | / | / |

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

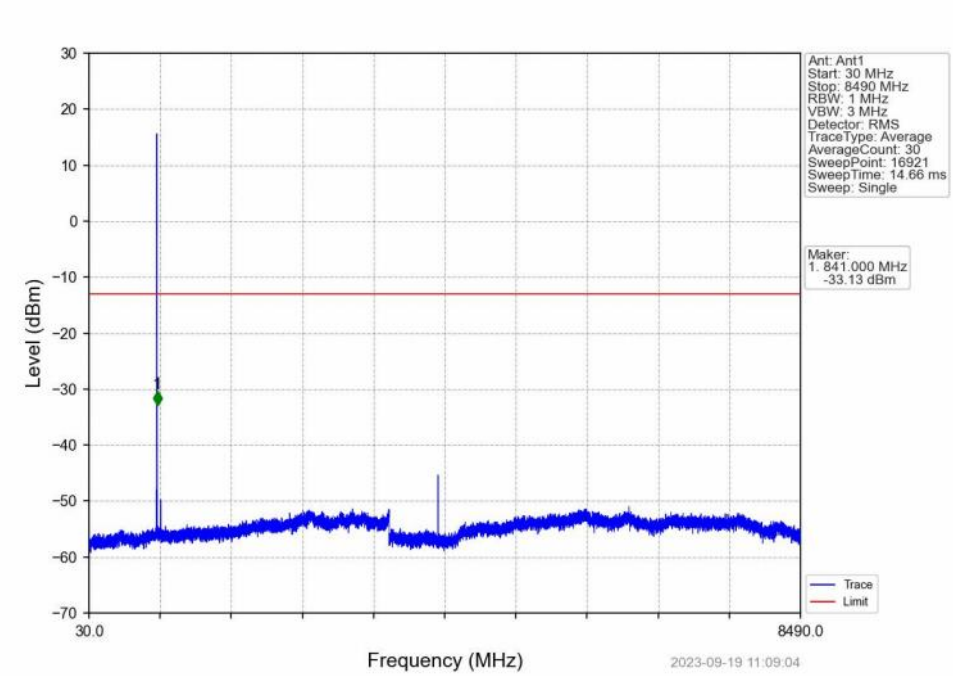



Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

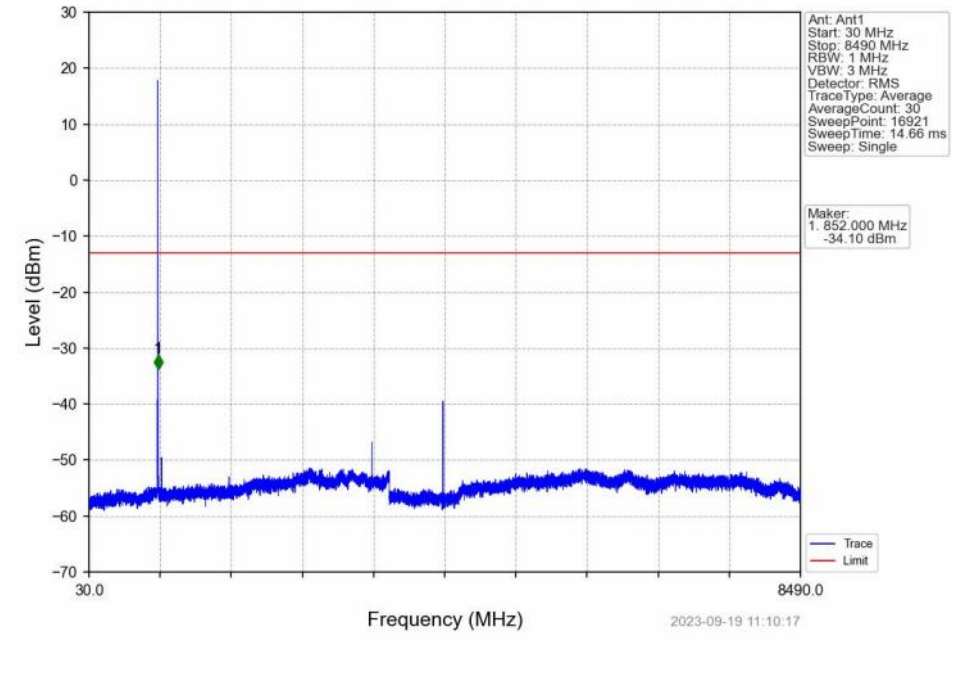



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 822.5 | 823 | 0.1 | / | 1 | 822.974 | -48.31 | -13 | Pass |
| 823 | 824 | 0.015 | / | 2 | 823.982 | -38.87 | -13 | Pass |
| 824 | 825.5 | 0.015 | / | / | / | / | / | / |

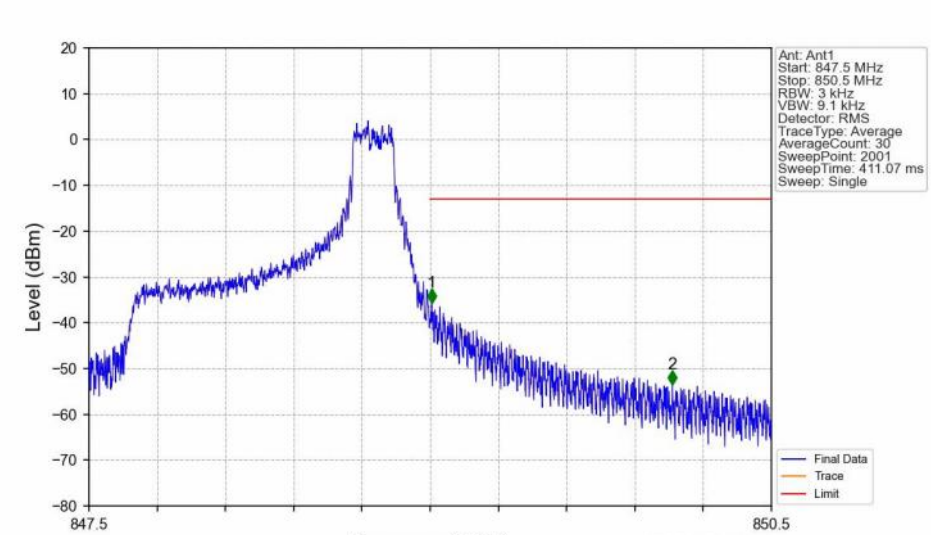
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV




Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV

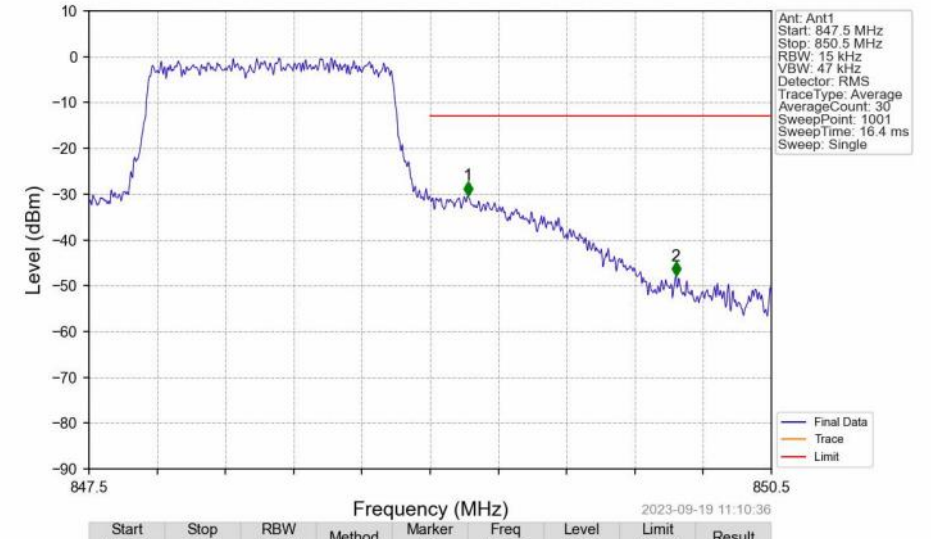


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 847.5 | 849 | 0.003 | / | / | / | / | / | / |
| 849 | 850 | 0.003 | / | 1 | 849.006 | -35.64 | -13 | Pass |
| 850 | 850.5 | 0.1 | / | 2 | 850.065 | -53.47 | -13 | Pass |

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 847.5 | 849 | 0.015 | / | / | / | / | / | / |
| 849 | 850 | 0.015 | / | 1 | 849.165 | -30.33 | -13 | Pass |
| 850 | 850.5 | 0.1 | / | 2 | 850.080 | -47.81 | -13 | Pass |

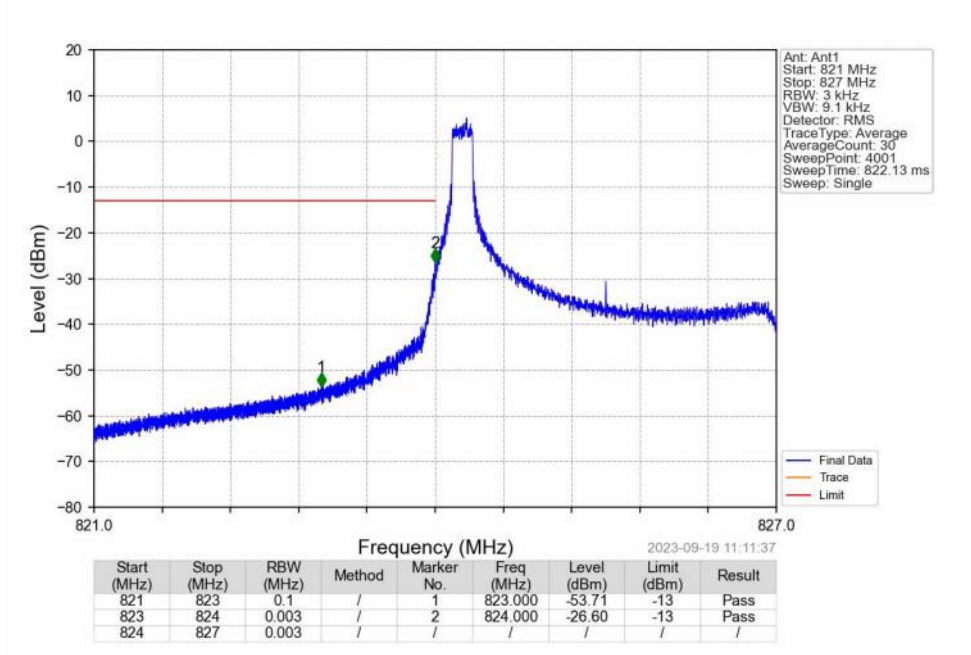
## 6.2 B5_3MHz

### 6.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 825.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 847.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 825.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 847.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |

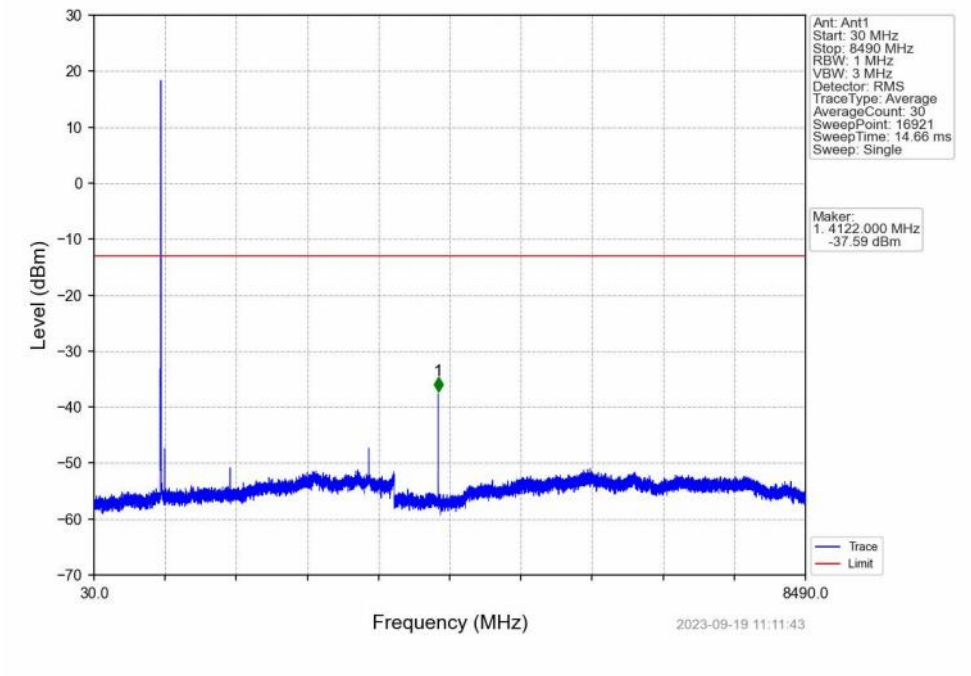
## 6.2.2 Test Graph

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

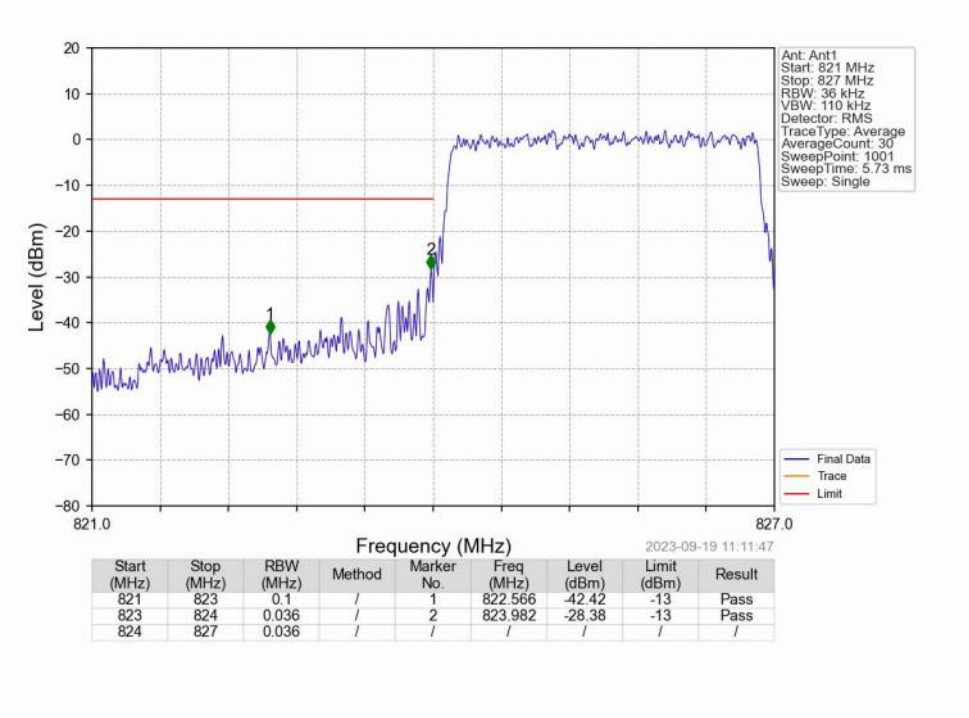



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 821 | 823 | 0.1 | / | 1 | 823.000 | -53.71 | -13 | Pass |
| 823 | 824 | 0.003 | / | 2 | 824.000 | -26.60 | -13 | Pass |
| 824 | 827 | 0.003 | / | / | / | / | / | / |

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

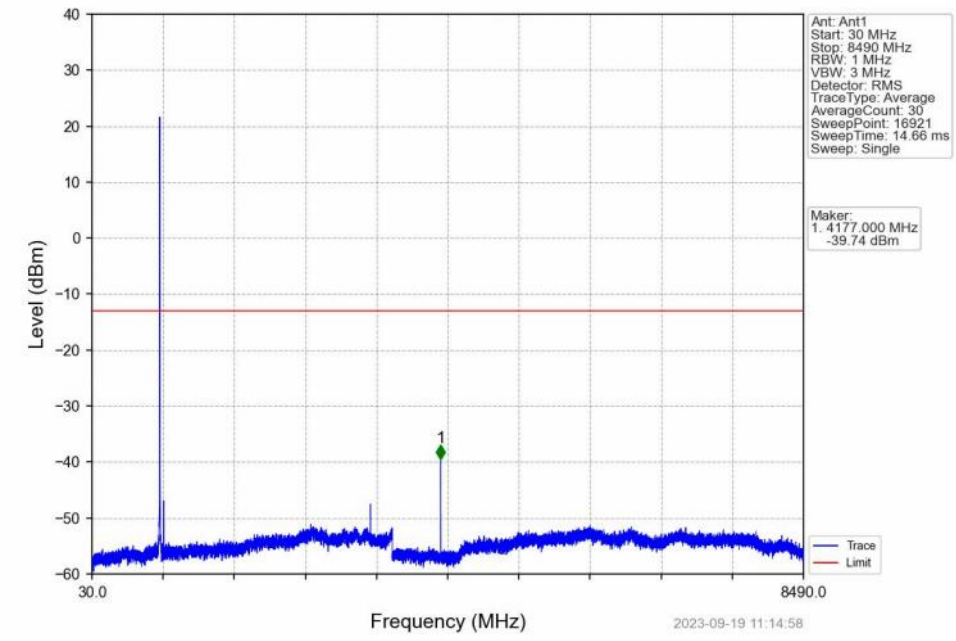


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

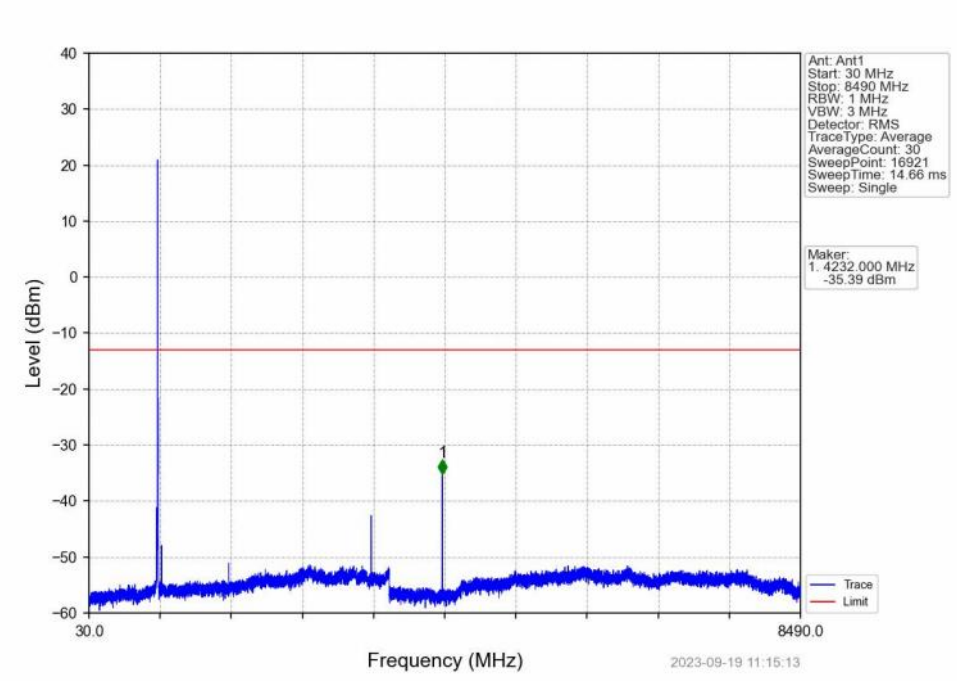



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 821 | 823 | 0.1 | / | 1 | 822.566 | -42.42 | -13 | Pass |
| 823 | 824 | 0.036 | / | 2 | 823.982 | -28.38 | -13 | Pass |
| 824 | 827 | 0.036 | / | / | / | / | / | / |

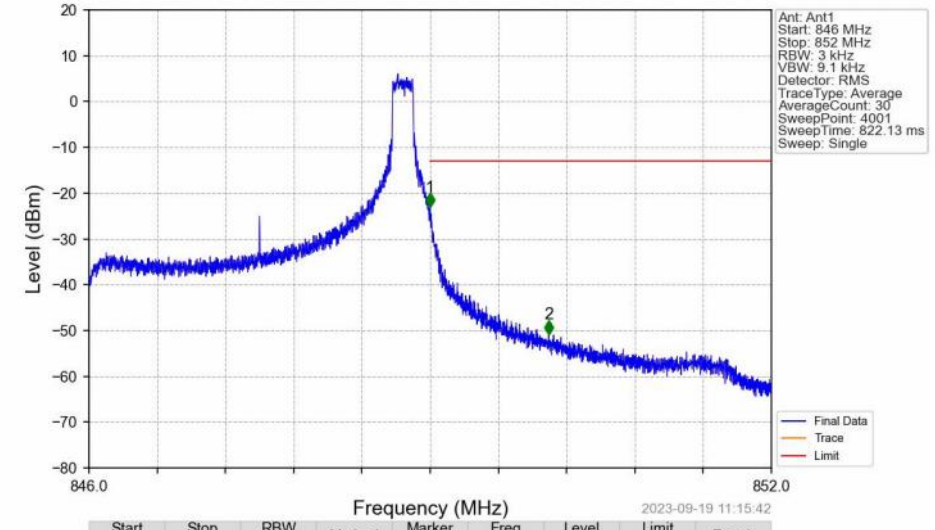
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV

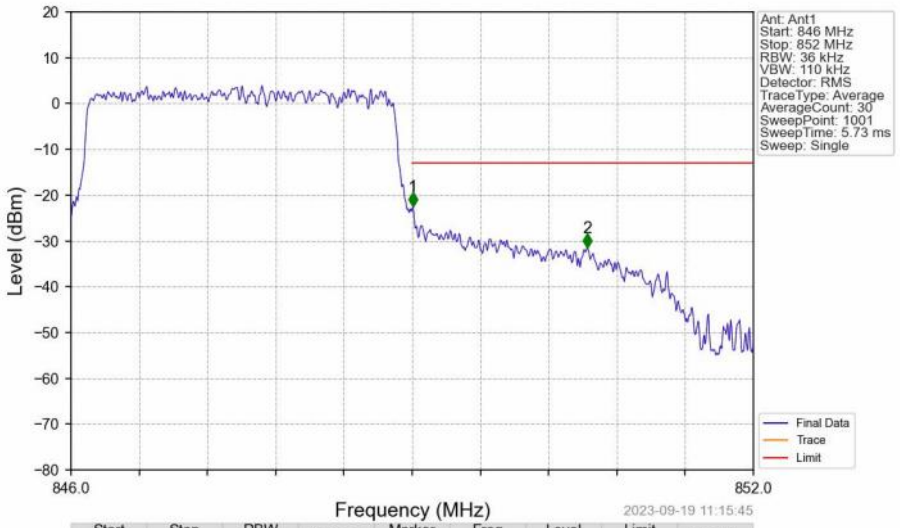



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



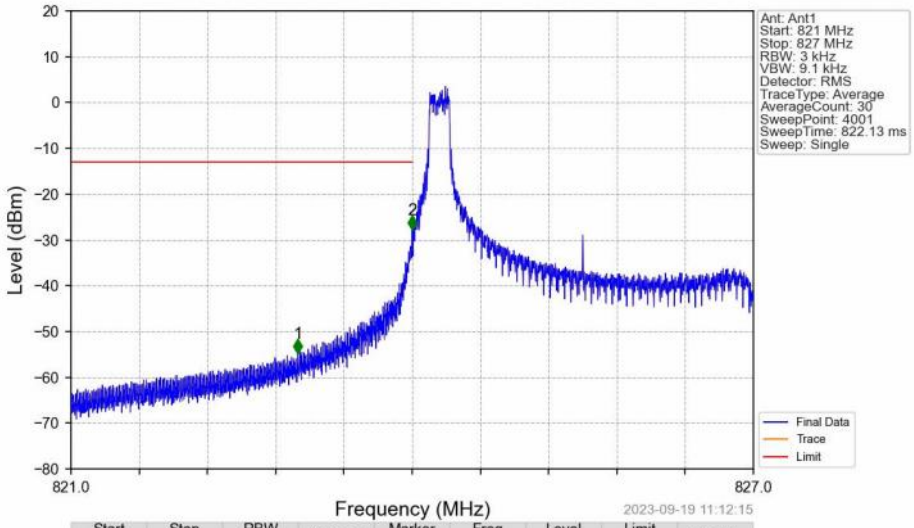

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 846 | 849 | 0.003 | / | / | / | / | / | / |
| 849 | 850 | 0.003 | / | 1 | 849.000 | -23.00 | -13 | Pass |
| 850 | 852 | 0.1 | / | 2 | 850.041 | -50.82 | -13 | Pass |

Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



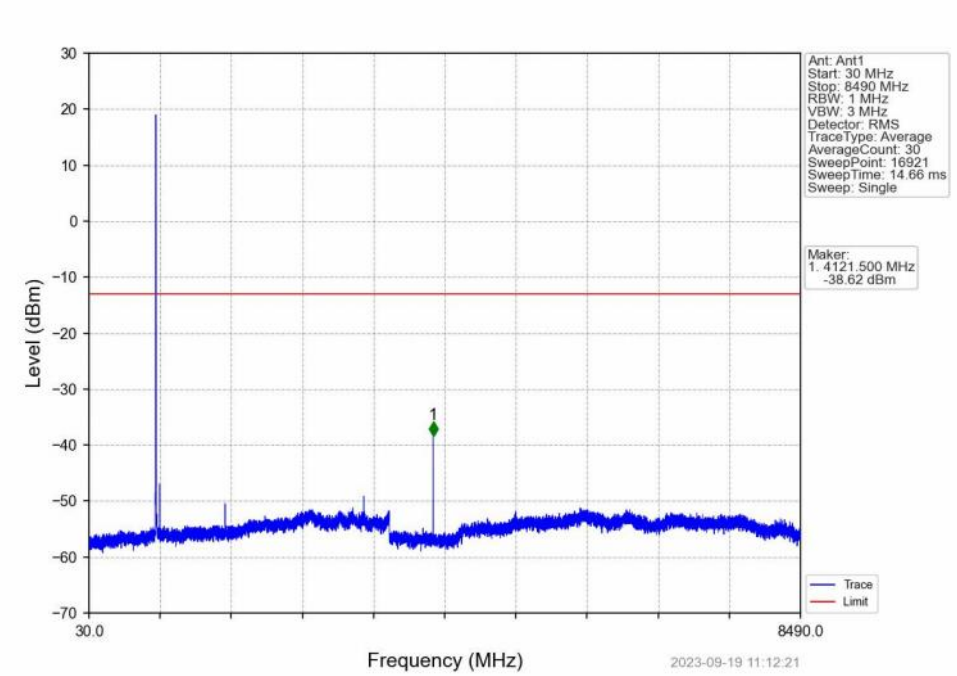

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 846 | 849 | 0.036 | / | / | / | / | / | / |
| 849 | 850 | 0.036 | / | 1 | 849.006 | -22.49 | -13 | Pass |
| 850 | 852 | 0.1 | / | 2 | 850.542 | -31.53 | -13 | Pass |

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

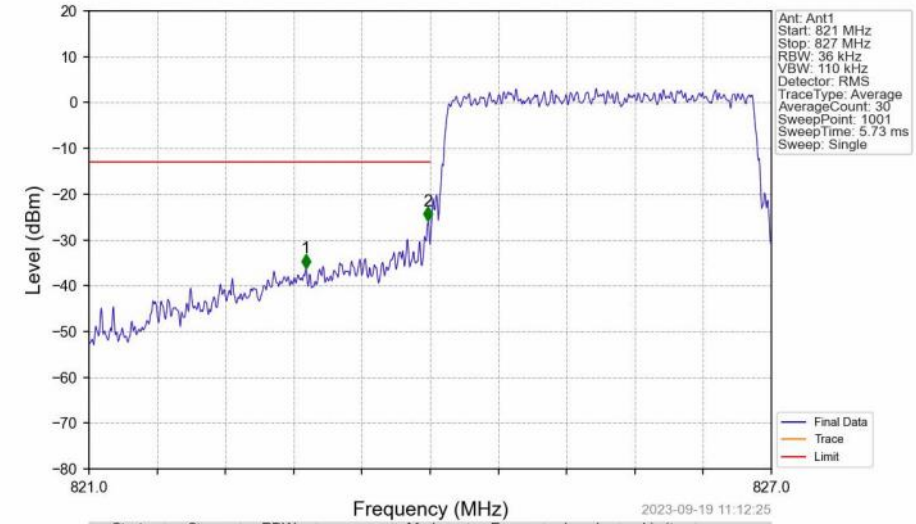



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 821 | 823 | 0.1 | / | 1 | 822.995 | -54.79 | -13 | Pass |
| 823 | 824 | 0.003 | / | 2 | 824.000 | -27.81 | -13 | Pass |
| 824 | 827 | 0.003 | / | / | / | / | / | / |

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

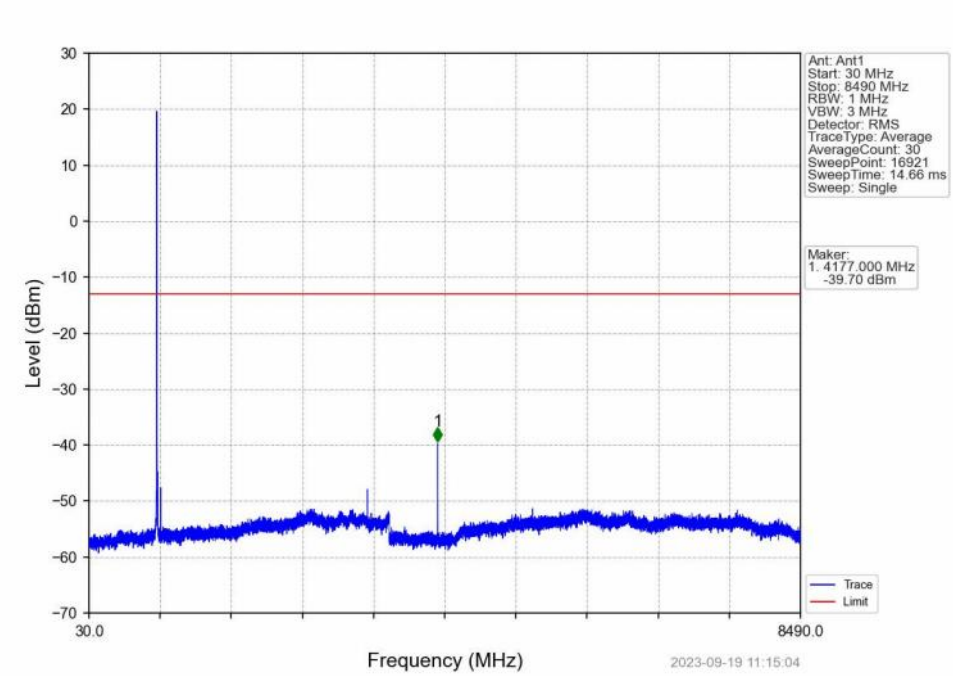



Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

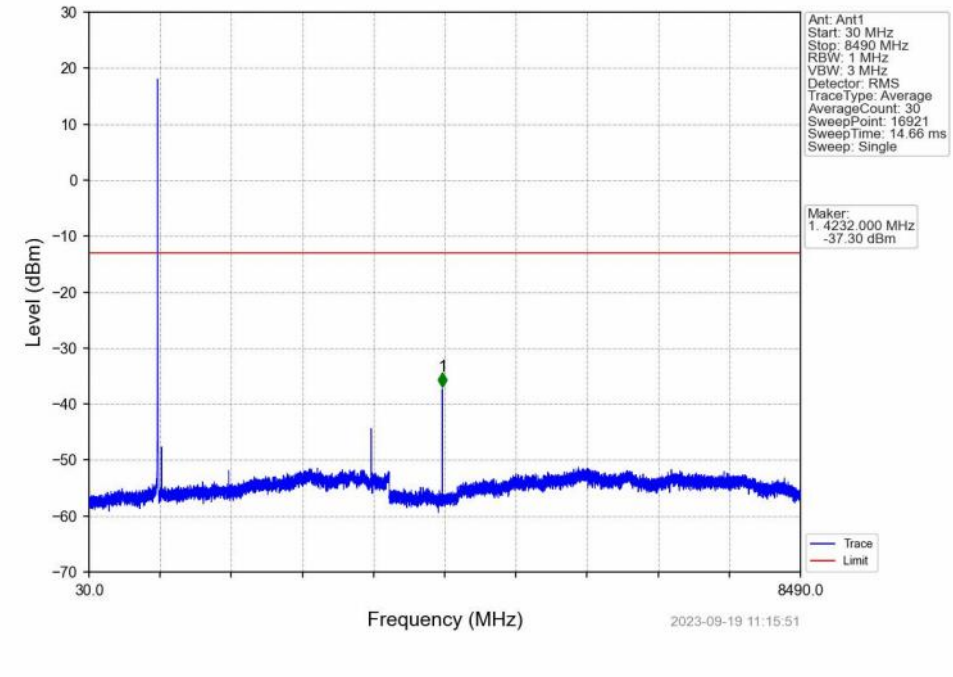



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 821 | 823 | 0.1 | / | 1 | 822.908 | -36.18 | -13 | Pass |
| 823 | 824 | 0.036 | / | 2 | 823.982 | -25.90 | -13 | Pass |
| 824 | 827 | 0.036 | / | / | / | / | / | / |

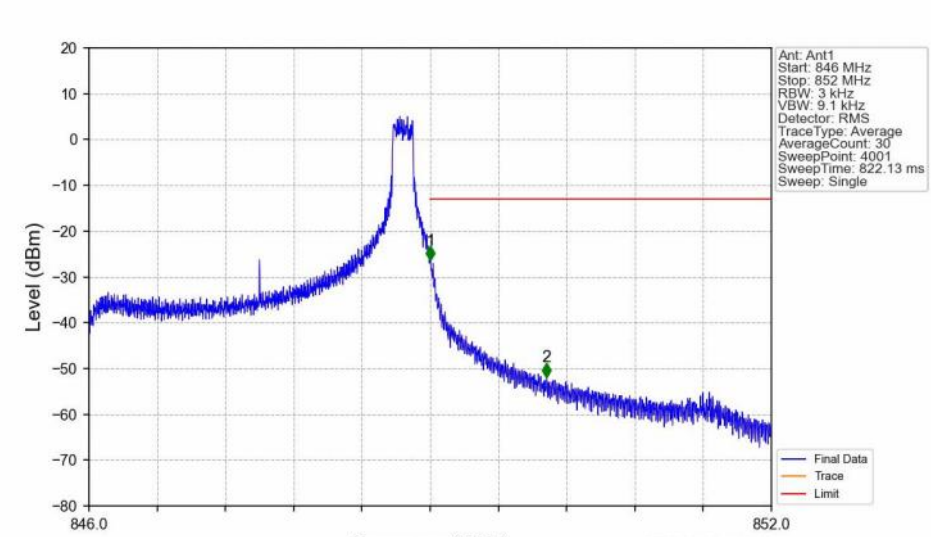
Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV




Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV

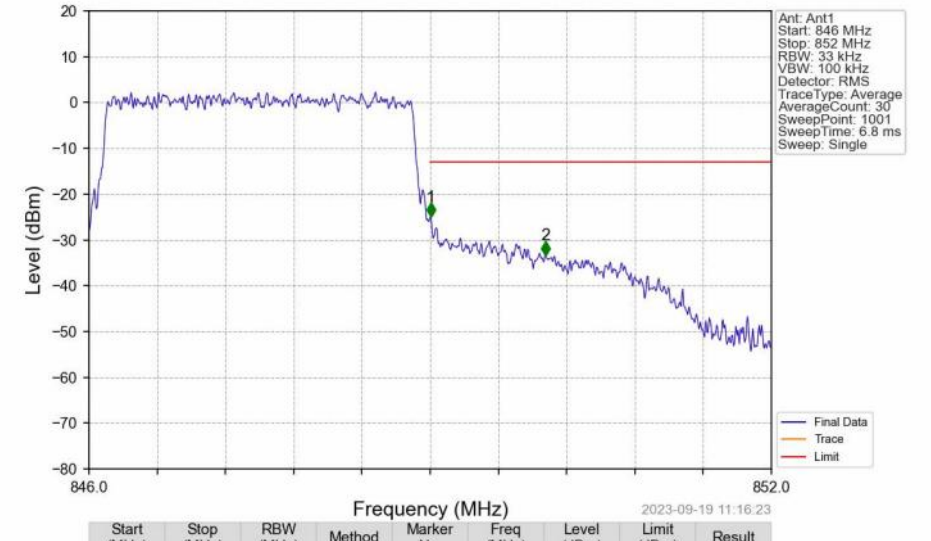


Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 846 | 849 | 0.003 | / | / | / | / | / | / |
| 849 | 850 | 0.003 | / | 1 | 849.003 | -26.45 | -13 | Pass |
| 850 | 852 | 0.1 | / | 2 | 850.024 | -51.87 | -13 | Pass |

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 846 | 849 | 0.033 | / | / | / | / | / | / |
| 849 | 850 | 0.033 | / | 1 | 849.006 | -25.00 | -13 | Pass |
| 850 | 852 | 0.1 | / | 2 | 850.014 | -33.35 | -13 | Pass |

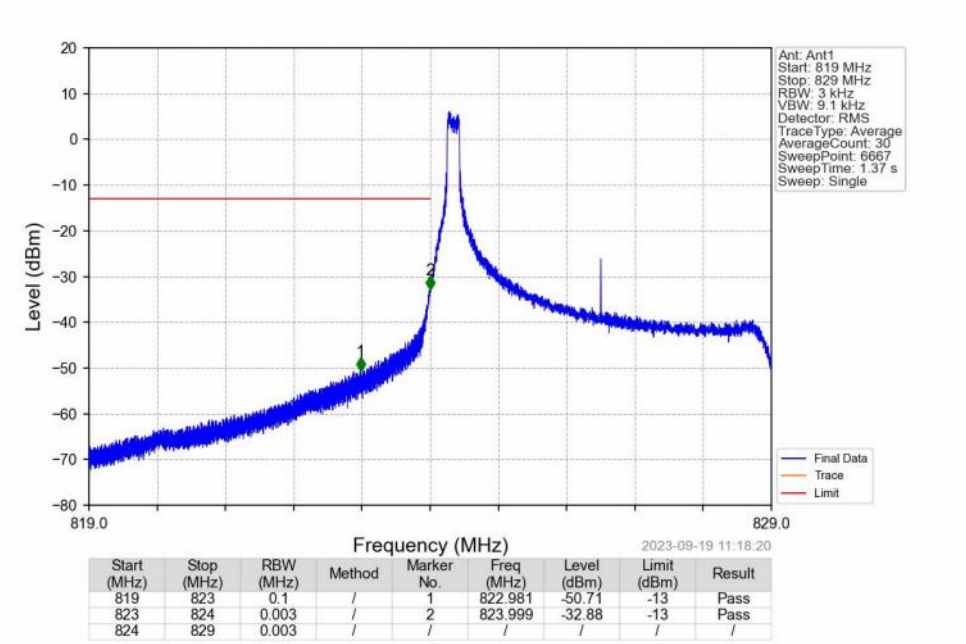
## 6.3 B5_5MHz

### 6.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 826.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 846.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 826.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 846.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

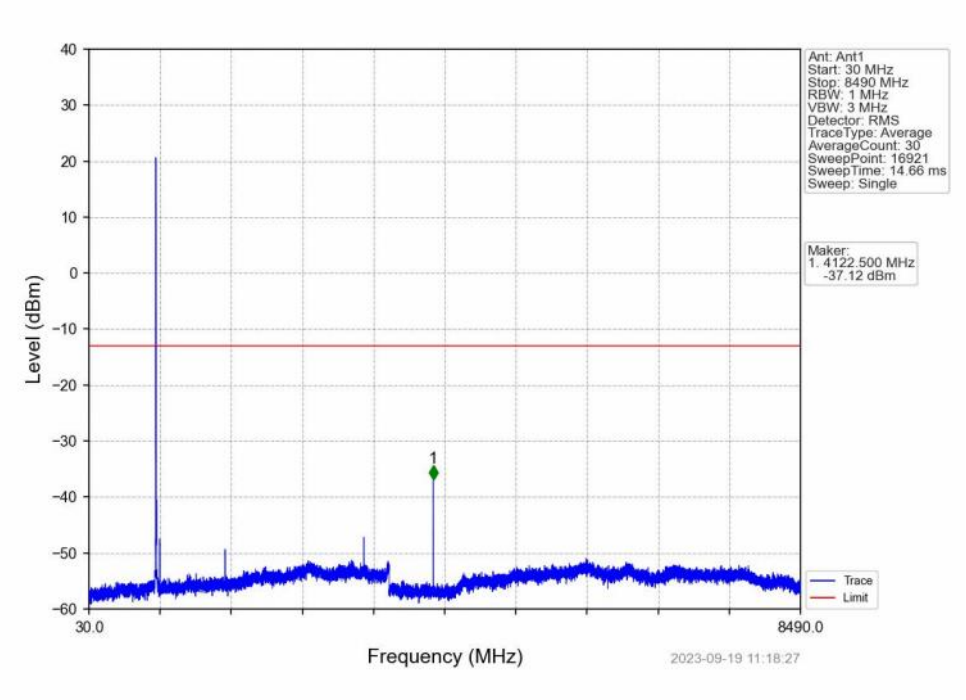
## 6.3.2 Test Graph

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

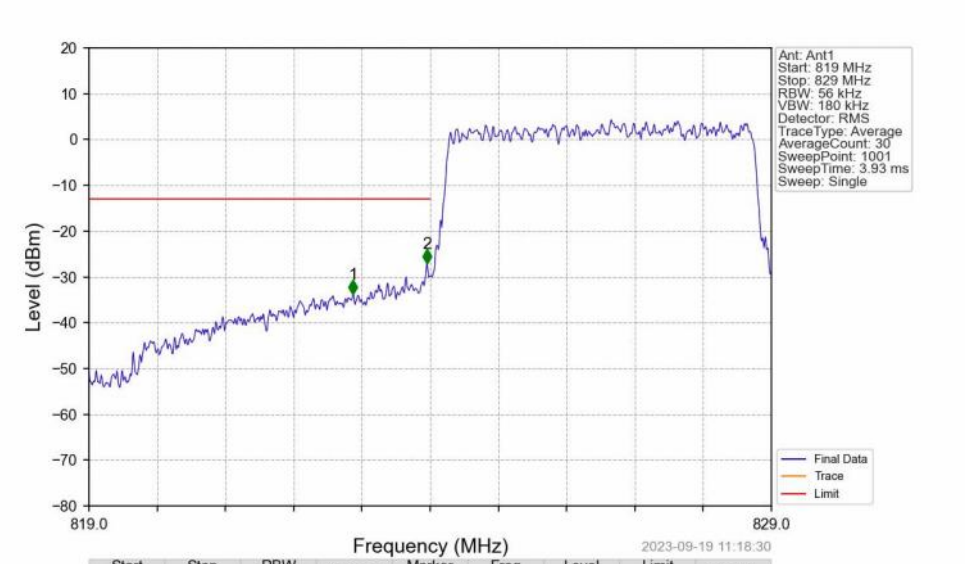



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 819 | 823 | 0.1 | / | 1 | 822.981 | -50.71 | -13 | Pass |
| 823 | 824 | 0.003 | / | 2 | 823.999 | -32.88 | -13 | Pass |
| 824 | 829 | 0.003 | / | / | / | / | / | / |

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

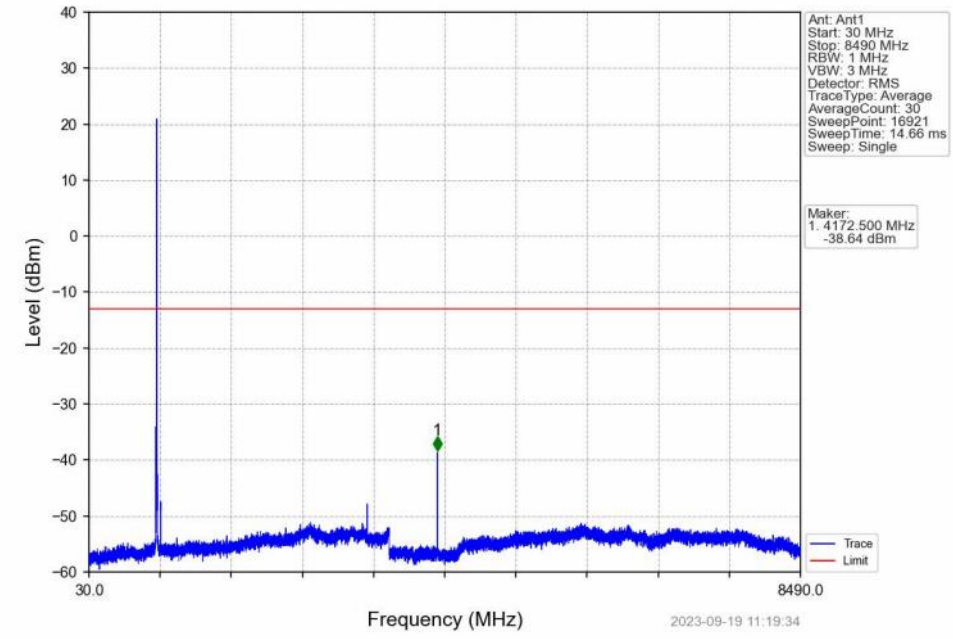


Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

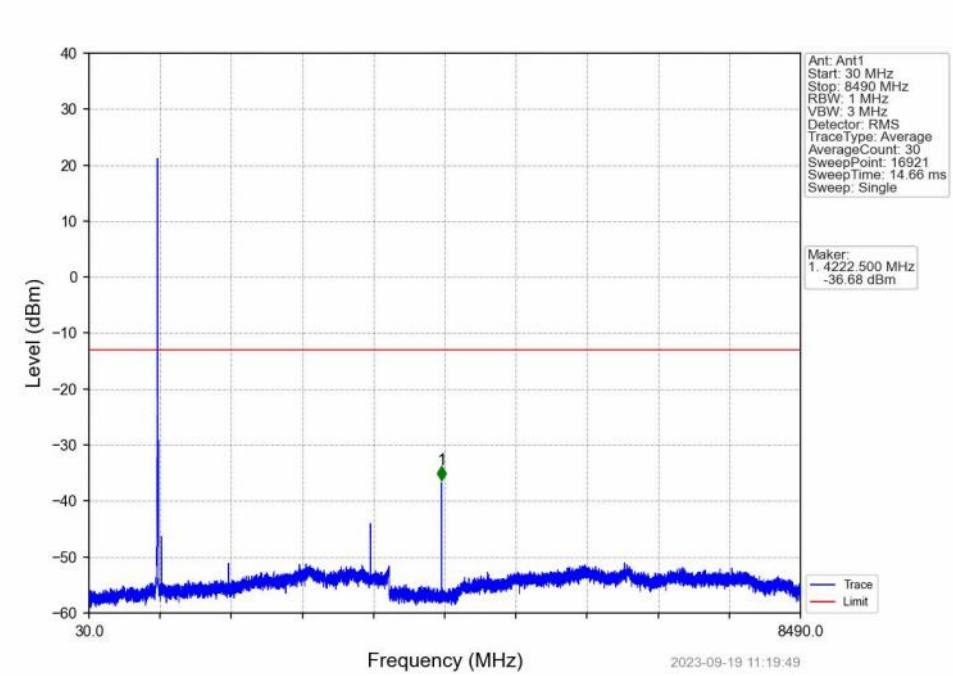



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 819 | 823 | 0.1 | / | 1 | 822.870 | -33.82 | -13 | Pass |
| 823 | 824 | 0.056 | / | 2 | 823.950 | -27.09 | -13 | Pass |
| 824 | 829 | 0.056 | / | / | / | / | / | / |

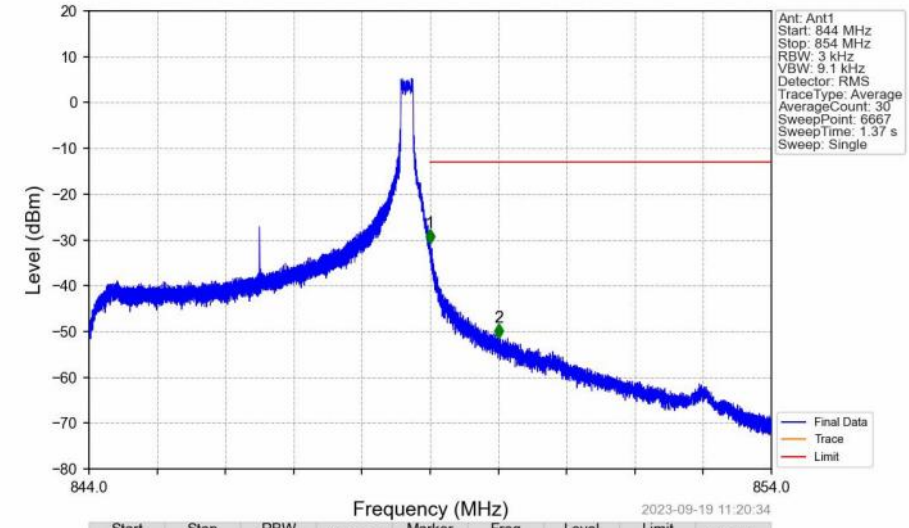
Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV

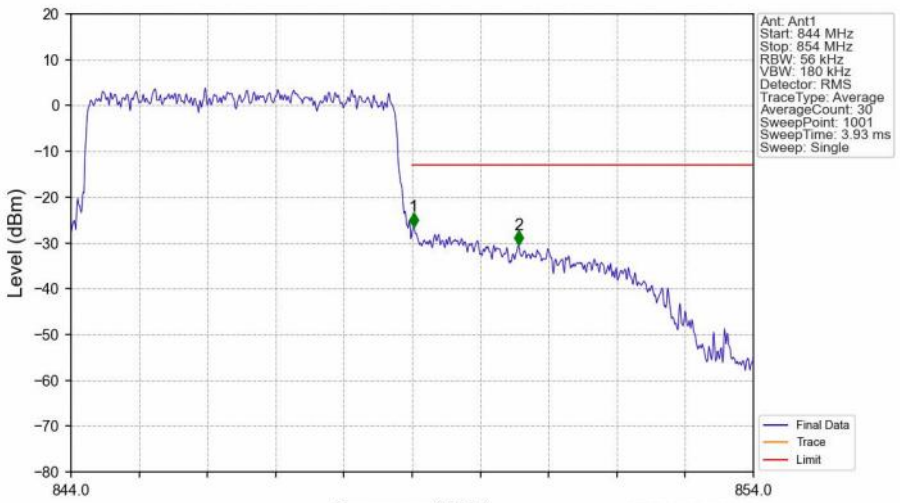



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



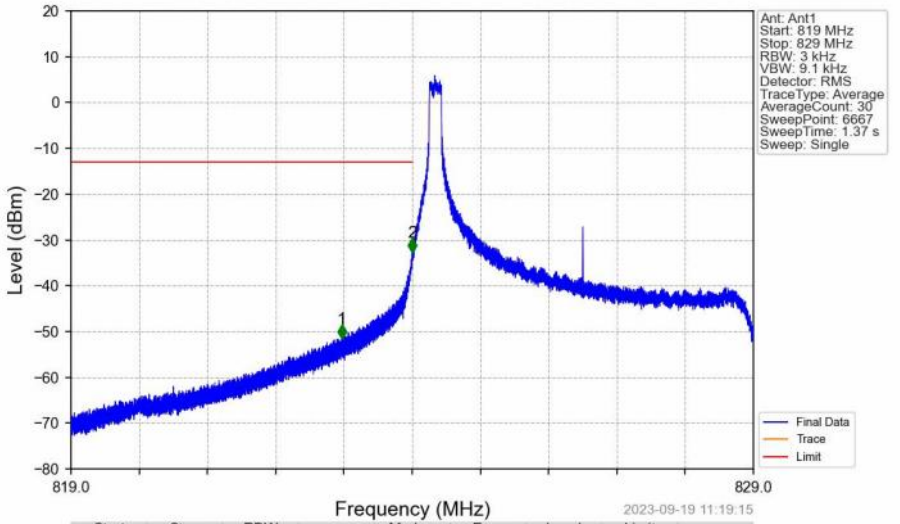

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 844 | 849 | 0.003 | / | / | / | / | / | / |
| 849 | 850 | 0.003 | / | 1 | 849.000 | -30.73 | -13 | Pass |
| 850 | 854 | 0.1 | / | 2 | 850.002 | -51.37 | -13 | Pass |

Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



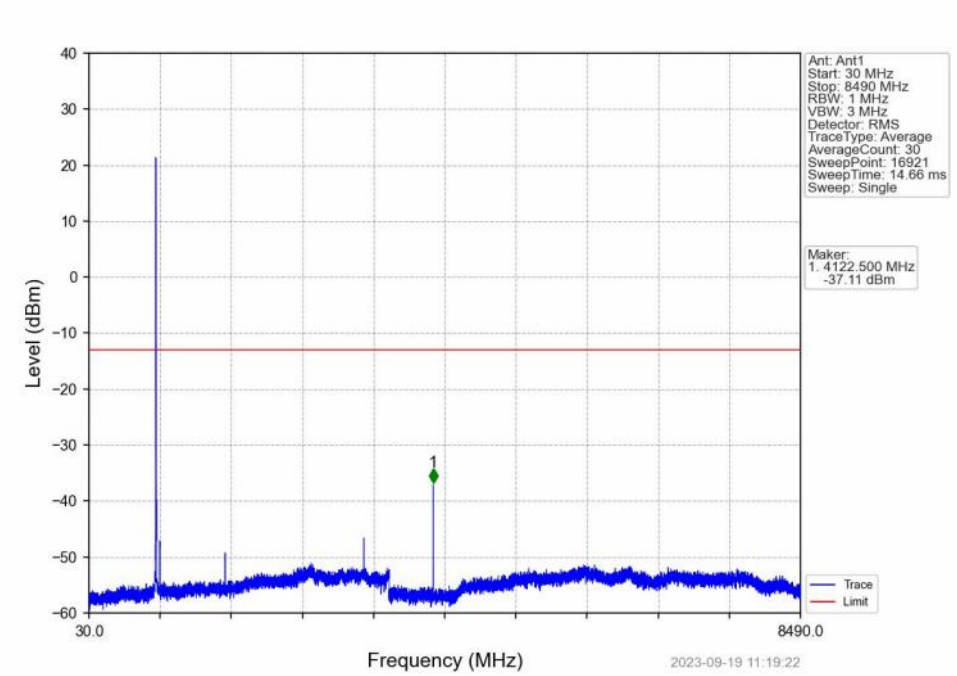

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 844 | 849 | 0.056 | / | / | / | / | / | / |
| 849 | 850 | 0.056 | / | 1 | 849.020 | -26.49 | -13 | Pass |
| 850 | 854 | 0.1 | / | 2 | 850.560 | -30.48 | -13 | Pass |

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

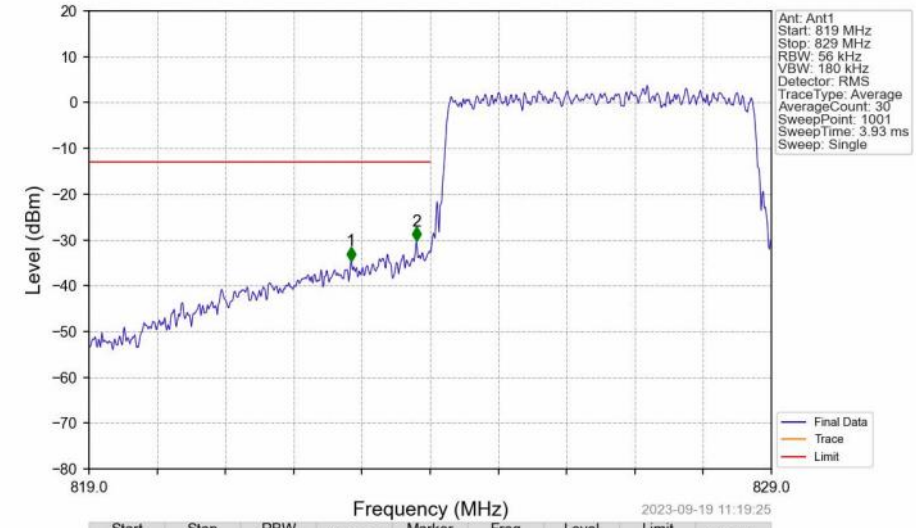



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 819 | 823 | 0.1 | / | 1 | 822.971 | -51.59 | -13 | Pass |
| 823 | 824 | 0.003 | / | 2 | 824.000 | -32.68 | -13 | Pass |
| 824 | 829 | 0.003 | / | / | / | / | / | / |

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

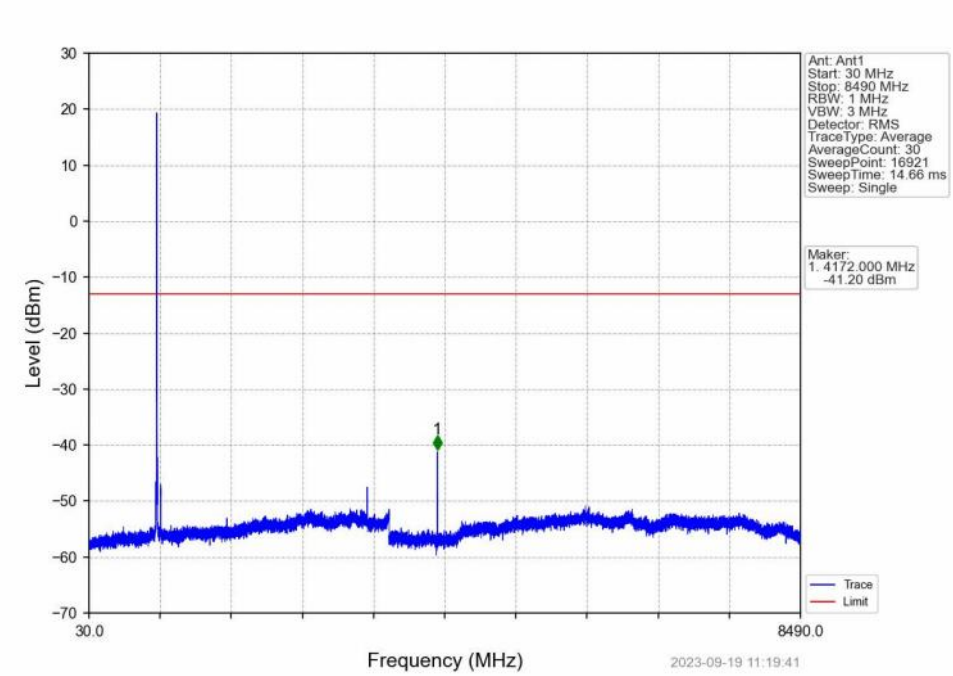



Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

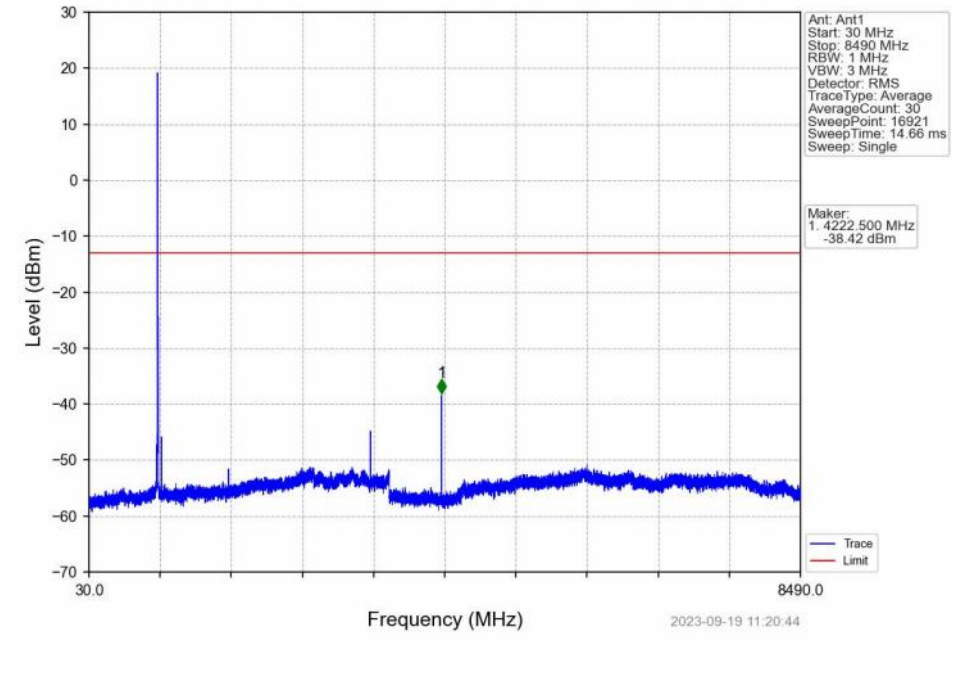



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 819 | 823 | 0.1 | / | 1 | 822.840 | -34.59 | -13 | Pass |
| 823 | 824 | 0.056 | / | 2 | 823.800 | -30.31 | -13 | Pass |
| 824 | 829 | 0.056 | / | / | / | / | / | / |

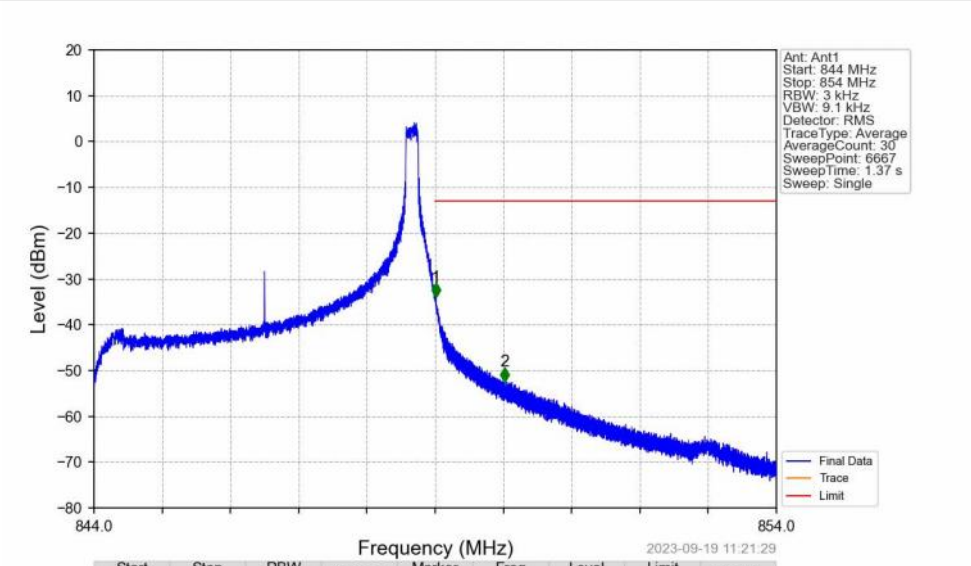
Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV




Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV

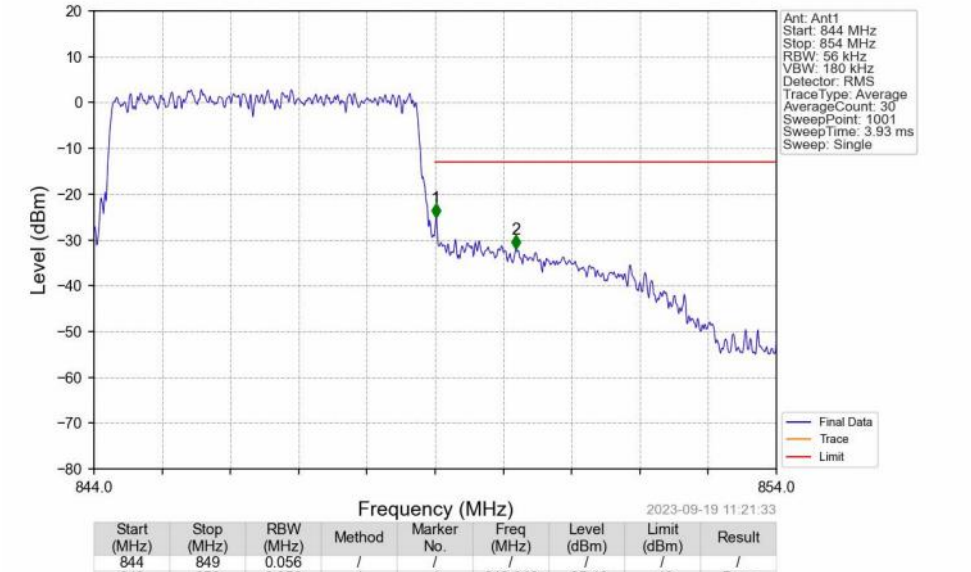


Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 844 | 849 | 0.003 | / | / | / | / | / | / |
| 849 | 850 | 0.003 | / | 1 | 849.011 | -33.99 | -13 | Pass |
| 850 | 854 | 0.1 | / | 2 | 850.016 | -52.41 | -13 | Pass |

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 844 | 849 | 0.056 | / | / | / | / | / | / |
| 849 | 850 | 0.056 | / | 1 | 849.010 | -25.10 | -13 | Pass |
| 850 | 854 | 0.1 | / | 2 | 850.180 | -32.07 | -13 | Pass |

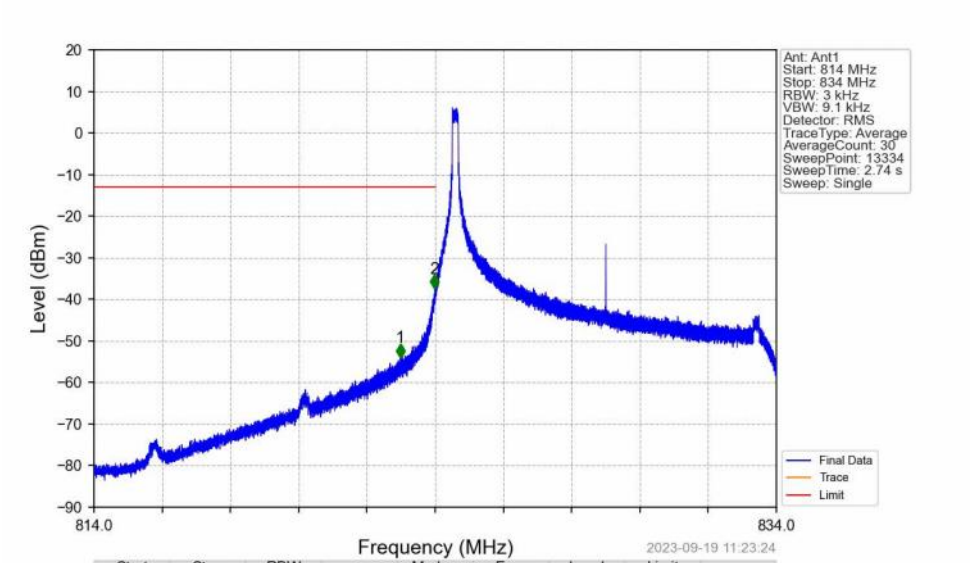
## 6.4 B5_10MHz

### 6.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 829 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 844 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 829 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 844 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

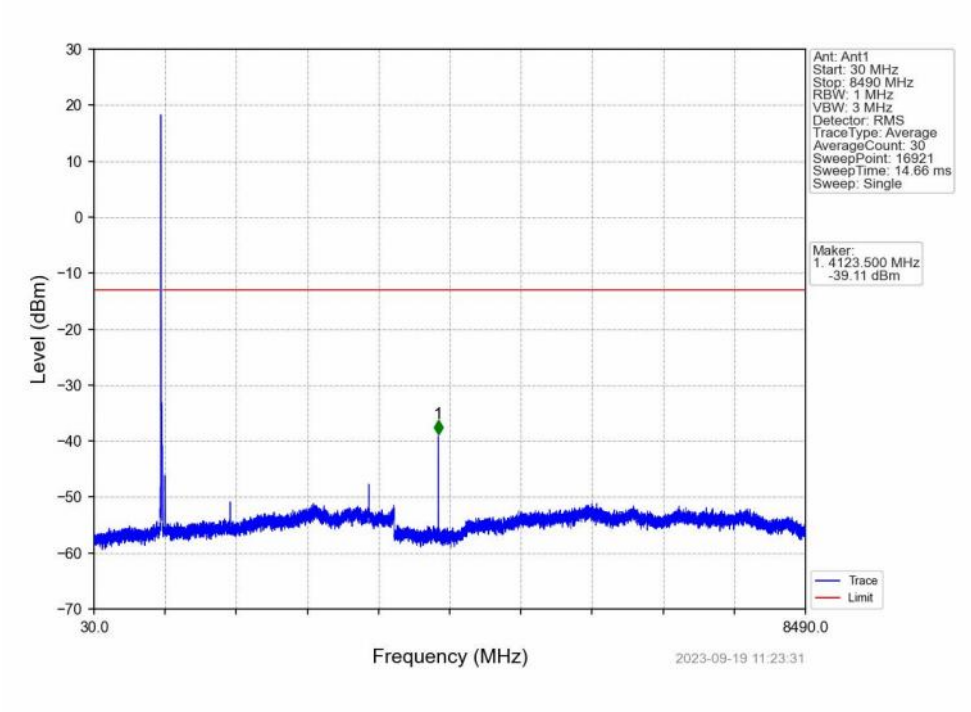
## 6.4.2 Test Graph

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

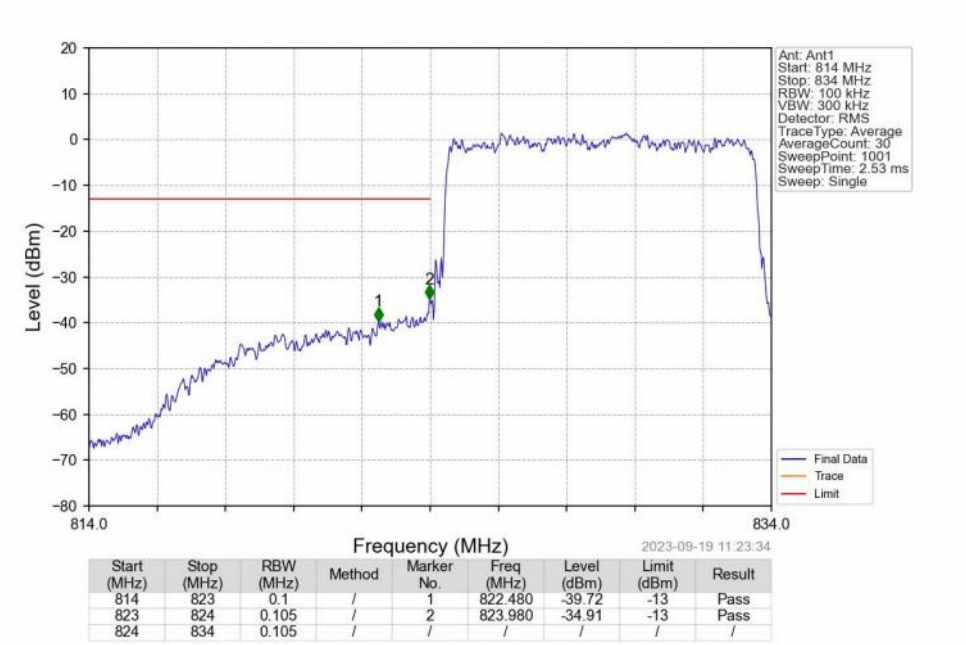



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 814 | 823 | 0.1 | / | 1 | 822.973 | -54.04 | -13 | Pass |
| 823 | 824 | 0.003 | / | 2 | 823.987 | -37.41 | -13 | Pass |
| 824 | 834 | 0.003 | / | / | / | / | / | / |

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

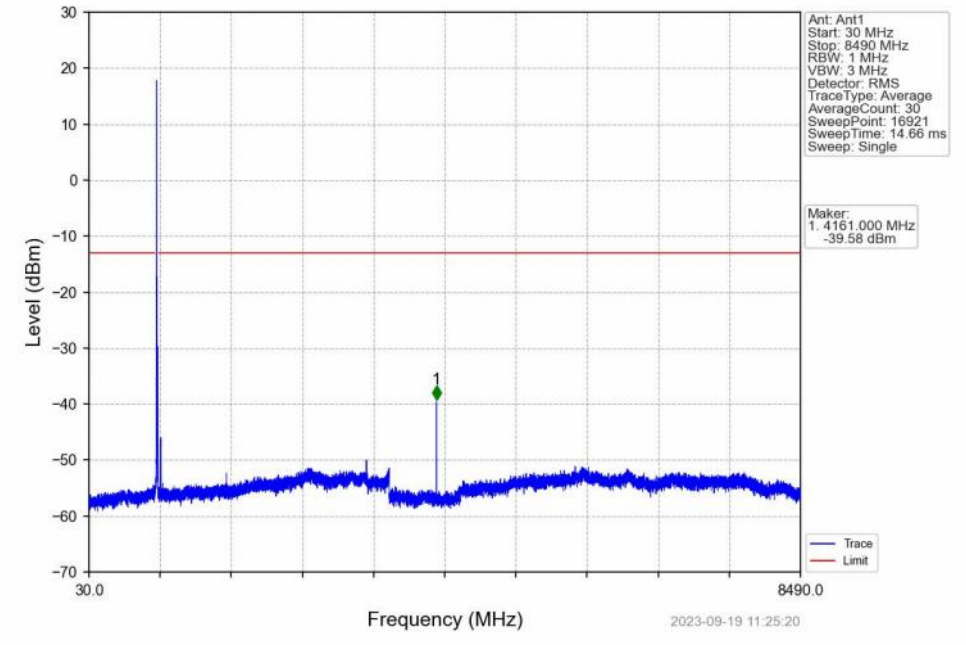


Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV

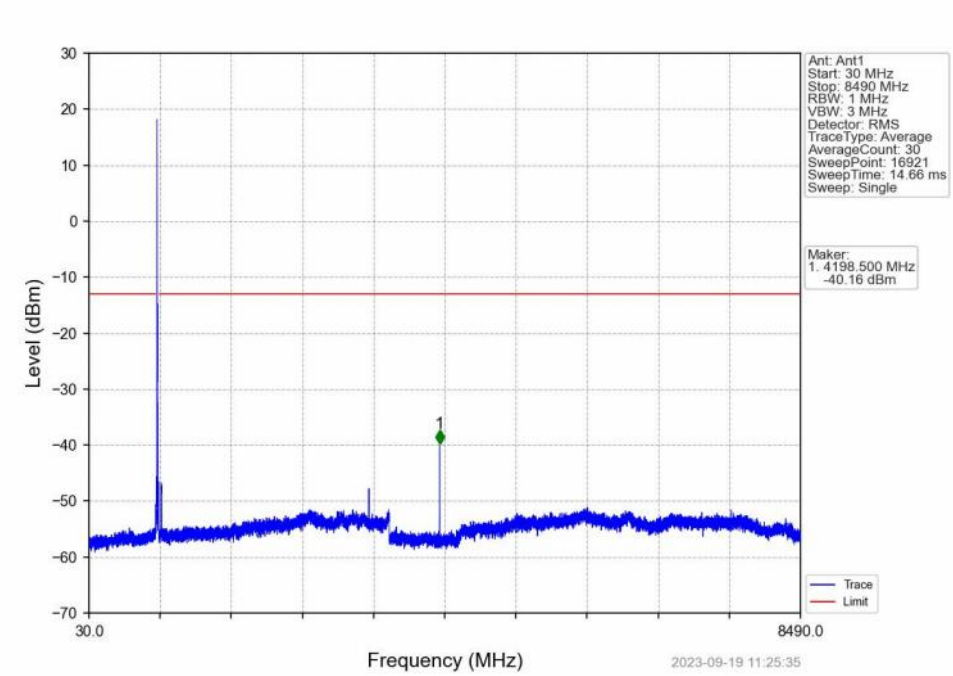



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 814 | 823 | 0.1 | / | 1 | 822.480 | -39.72 | -13 | Pass |
| 823 | 824 | 0.105 | / | 2 | 823.980 | -34.91 | -13 | Pass |
| 824 | 834 | 0.105 | / | / | / | / | / | / |

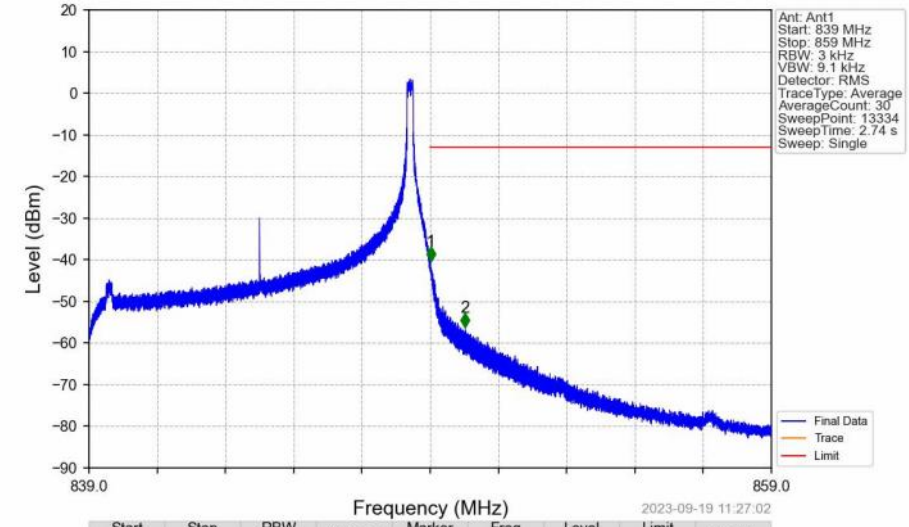
Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV

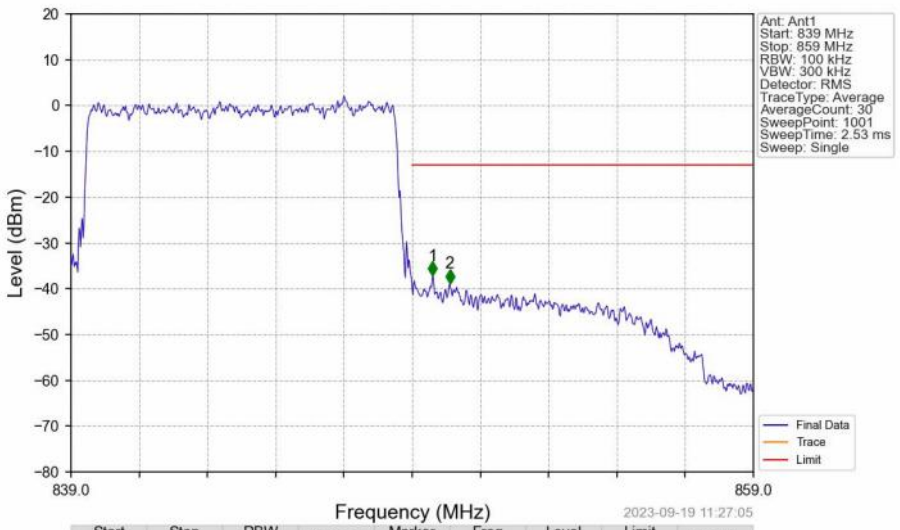



Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV



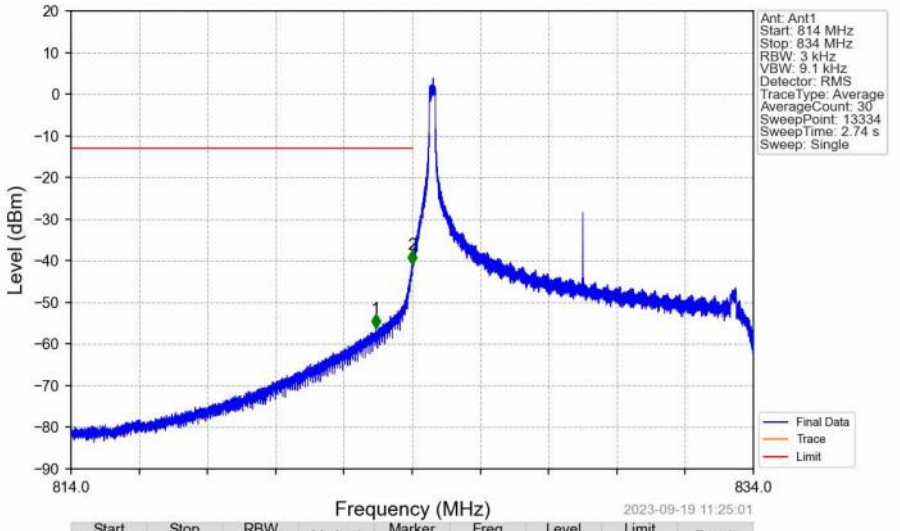

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 839 | 849 | 0.003 | / | / | / | / | / | / |
| 849 | 850 | 0.003 | / | 1 | 849.014 | -40.30 | -13 | Pass |
| 850 | 859 | 0.1 | / | 2 | 850.028 | -56.28 | -13 | Pass |

Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



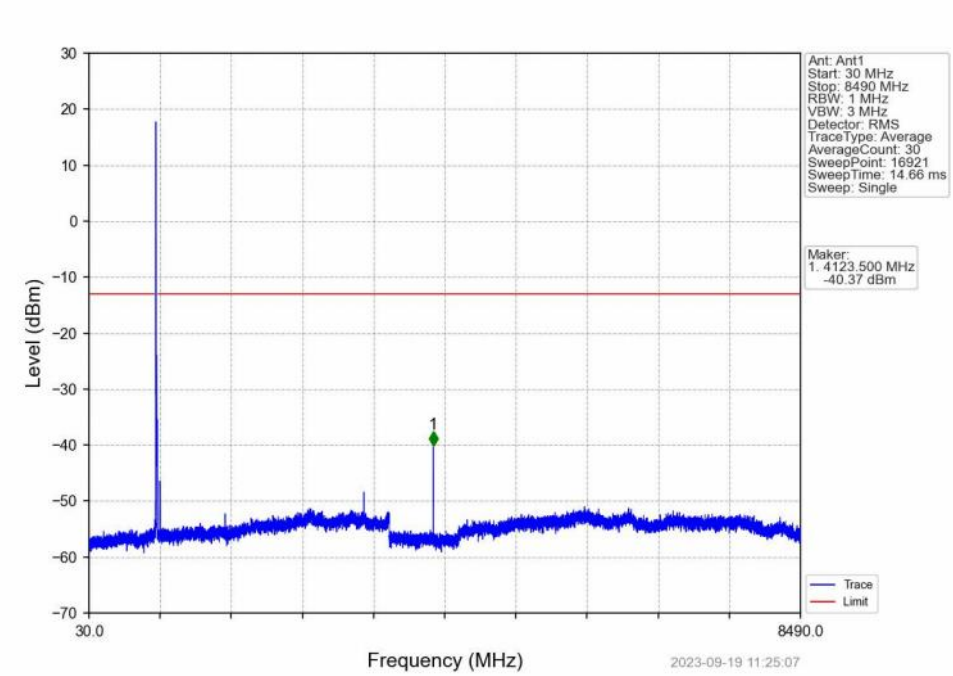

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 839 | 849 | 0.103 | / | / | / | / | / | / |
| 849 | 850 | 0.103 | / | 1 | 849.600 | -37.18 | -13 | Pass |
| 850 | 859 | 0.1 | / | 2 | 850.100 | -38.84 | -13 | Pass |

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

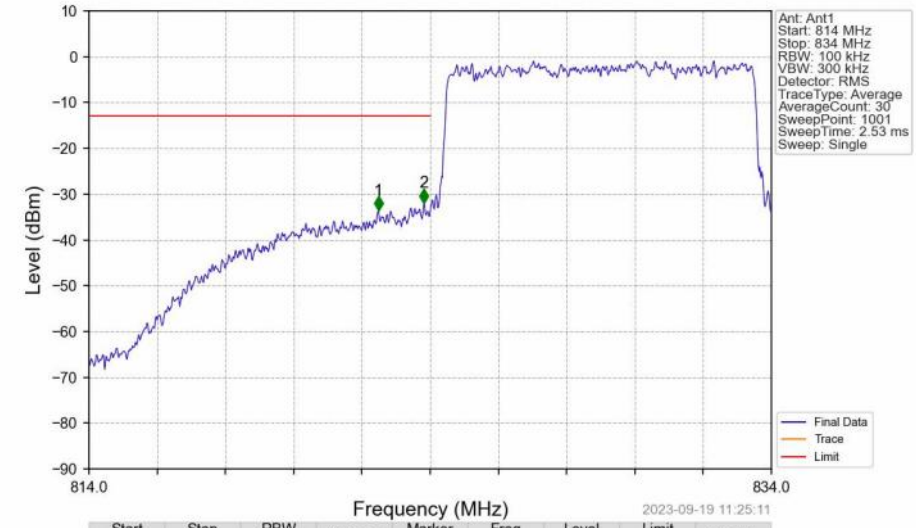



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 814 | 823 | 0.1 | / | 1 | 822.925 | -56.28 | -13 | Pass |
| 823 | 824 | 0.003 | / | 2 | 823.998 | -40.87 | -13 | Pass |
| 824 | 834 | 0.003 | / | / | / | / | / | / |

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

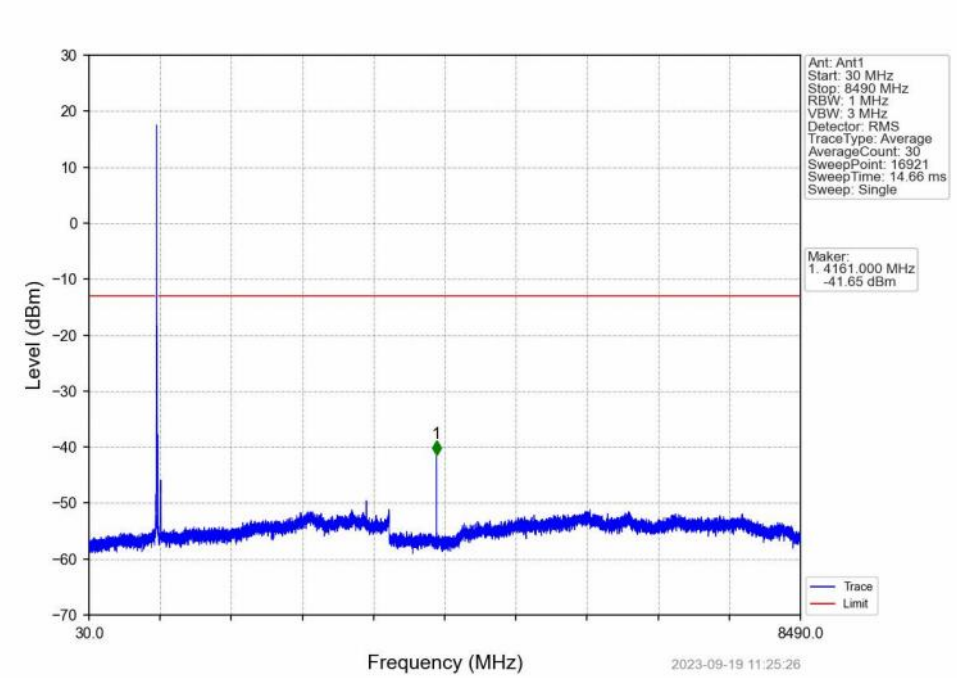



Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV

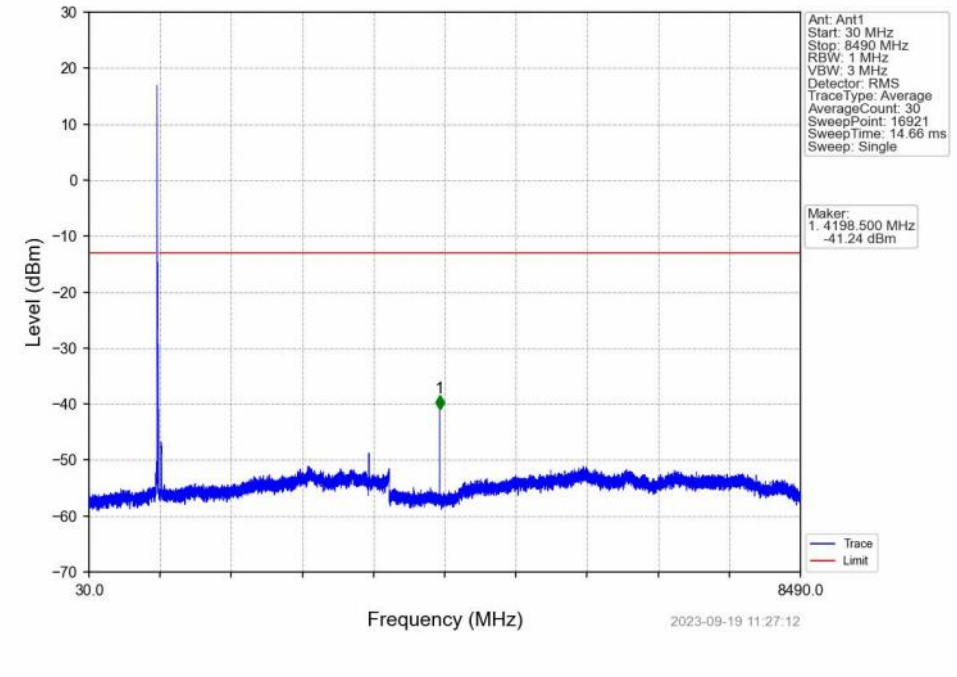



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 814 | 823 | 0.1 | / | 1 | 822.480 | -33.54 | -13 | Pass |
| 823 | 824 | 0.105 | / | 2 | 823.820 | -31.89 | -13 | Pass |
| 824 | 834 | 0.105 | / | / | / | / | / | / |

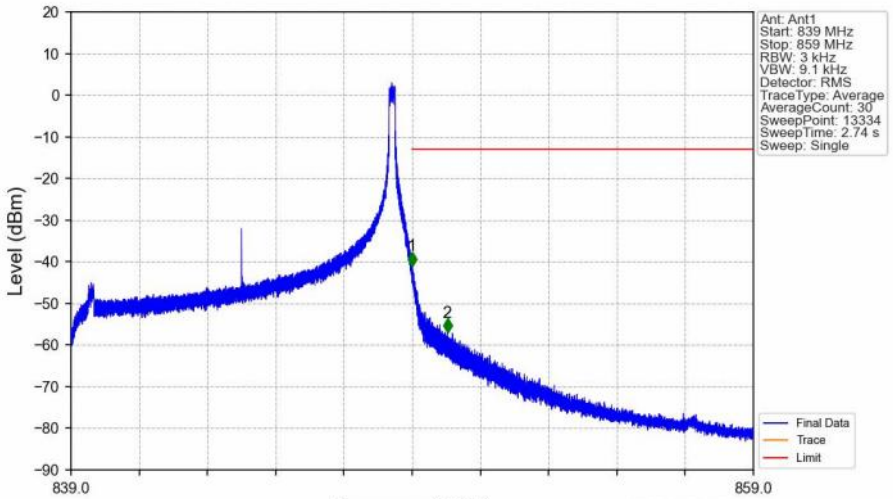
Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV




Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV

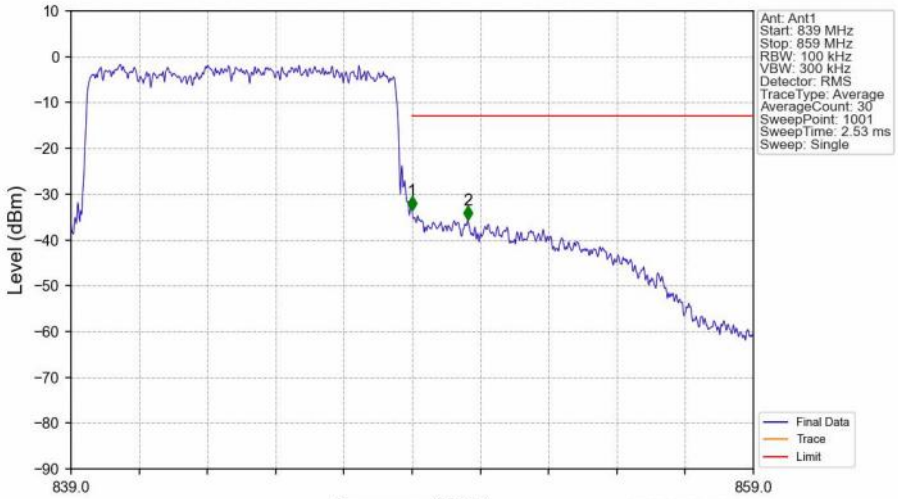


Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 839 | 849 | 0.003 | / | / | / | / | / | / |
| 849 | 850 | 0.003 | / | 1 | 849.001 | -41.02 | -13 | Pass |
| 850 | 859 | 0.1 | / | 2 | 850.033 | -57.03 | -13 | Pass |

Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 839 | 849 | 0.103 | / | / | / | / | / | / |
| 849 | 850 | 0.103 | / | 1 | 849.000 | -33.62 | -13 | Pass |
| 850 | 859 | 0.1 | / | 2 | 850.640 | -35.71 | -13 | Pass |

# 7. Form731

## 7.1 Form731_Power

### 7.1.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.4 | 824.7 | 848.3 | 0.1393 | 0.0469 | ppm | 1M13G7D | 24E | 21.44 |
| 5 | 1.4 | 824.7 | 848.3 | 0.1114 | 0.0521 | ppm | 1M13W7D | 24E | 20.47 |
| 5 | 3 | 825.5 | 847.5 | 0.1186 | 0.0294 | ppm | 2M77G7D | 24E | 20.74 |
| 5 | 3 | 825.5 | 847.5 | 0.1194 | 0.0525 | ppm | 2M78W7D | 24E | 20.77 |
| 5 | 5 | 826.5 | 846.5 | 0.1377 | 0.0430 | ppm | 4M58G7D | 24E | 21.39 |
| 5 | 5 | 826.5 | 846.5 | 0.0984 | 0.0472 | ppm | 4M61W7D | 24E | 19.93 |
| 5 | 10 | 829 | 844 | 0.1422 | 0.0408 | ppm | 9M08G7D | 24E | 21.53 |
| 5 | 10 | 829 | 844 | 0.1164 | 0.0325 | ppm | 9M10W7D | 24E | 20.66 |

## 7.2 Form731_ERP

### 7.2.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.4 | 824.7 | 848.3 | 0.0953 | 0.0469 | ppm | 1M13G7D | 24E | 19.79 |
| 5 | 1.4 | 824.7 | 848.3 | 0.0762 | 0.0521 | ppm | 1M13W7D | 24E | 18.82 |
| 5 | 3 | 825.5 | 847.5 | 0.0811 | 0.0294 | ppm | 2M77G7D | 24E | 19.09 |
| 5 | 3 | 825.5 | 847.5 | 0.0817 | 0.0525 | ppm | 2M78W7D | 24E | 19.12 |
| 5 | 5 | 826.5 | 846.5 | 0.0942 | 0.0430 | ppm | 4M58G7D | 24E | 19.74 |
| 5 | 5 | 826.5 | 846.5 | 0.0673 | 0.0472 | ppm | 4M61W7D | 24E | 18.28 |
| 5 | 10 | 829 | 844 | 0.0973 | 0.0408 | ppm | 9M08G7D | 24E | 19.88 |
| 5 | 10 | 829 | 844 | 0.0796 | 0.0325 | ppm | 9M10W7D | 24E | 19.01 |