# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B40b_5MHz_EIRP

### 1.1.1 Test Result

| Band: 40b / Bandwidth: 5MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 2352.5 | 1 | 0 | 18.86 | 3.47 | 22.33 | <=23.98 | Pass |
| | | | 13 | 19.47 | 3.47 | 22.94 | <=23.98 | Pass |
| | | | 24 | 18.44 | 3.47 | 21.91 | <=23.98 | Pass |
| | | 12 | 0 | 17.78 | 3.47 | 21.25 | <=23.98 | Pass |
| | | | 6 | 18.22 | 3.47 | 21.69 | <=23.98 | Pass |
| | | | 13 | 17.84 | 3.47 | 21.31 | <=23.98 | Pass |
| | | 25 | 0 | 17.77 | 3.47 | 21.24 | <=23.98 | Pass |
| | 2355 | 1 | 0 | 18.61 | 3.47 | 22.08 | <=23.98 | Pass |
| | | | 13 | 19.20 | 3.47 | 22.67 | <=23.98 | Pass |
| | | | 24 | 18.33 | 3.47 | 21.80 | <=23.98 | Pass |
| | | 12 | 0 | 17.64 | 3.47 | 21.11 | <=23.98 | Pass |
| | | | 6 | 18.35 | 3.47 | 21.82 | <=23.98 | Pass |
| | | | 13 | 17.96 | 3.47 | 21.43 | <=23.98 | Pass |
| | | 25 | 0 | 18.00 | 3.47 | 21.47 | <=23.98 | Pass |
| | 2357.5 | 1 | 0 | 18.62 | 3.47 | 22.09 | <=23.98 | Pass |
| | | | 13 | 19.28 | 3.47 | 22.75 | <=23.98 | Pass |
| | | | 24 | 18.46 | 3.47 | 21.93 | <=23.98 | Pass |
| | | 12 | 0 | 17.95 | 3.47 | 21.42 | <=23.98 | Pass |
| | | | 6 | 18.22 | 3.47 | 21.69 | <=23.98 | Pass |
| | | | 13 | 17.99 | 3.47 | 21.46 | <=23.98 | Pass |
| | | 25 | 0 | 17.93 | 3.47 | 21.40 | <=23.98 | Pass |
| 16QAM | 2352.5 | 1 | 0 | 17.71 | 3.47 | 21.18 | <=23.98 | Pass |
| | | | 13 | 18.39 | 3.47 | 21.86 | <=23.98 | Pass |
| | | | 24 | 17.63 | 3.47 | 21.10 | <=23.98 | Pass |
| | | 12 | 0 | 16.78 | 3.47 | 20.25 | <=23.98 | Pass |
| | | | 6 | 17.07 | 3.47 | 20.54 | <=23.98 | Pass |
| | | | 13 | 16.76 | 3.47 | 20.23 | <=23.98 | Pass |
| | | 25 | 0 | 16.77 | 3.47 | 20.24 | <=23.98 | Pass |
| | 2355 | 1 | 0 | 17.59 | 3.47 | 21.06 | <=23.98 | Pass |
| | | | 13 | 18.42 | 3.47 | 21.89 | <=23.98 | Pass |
| | | | 24 | 17.42 | 3.47 | 20.89 | <=23.98 | Pass |
| | | 12 | 0 | 16.66 | 3.47 | 20.13 | <=23.98 | Pass |
| | | | 6 | 17.27 | 3.47 | 20.74 | <=23.98 | Pass |
| | | | 13 | 16.94 | 3.47 | 20.41 | <=23.98 | Pass |
| | | 25 | 0 | 16.97 | 3.47 | 20.44 | <=23.98 | Pass |
| | 2357.5 | 1 | 0 | 17.48 | 3.47 | 20.95 | <=23.98 | Pass |
| | | | 13 | 18.23 | 3.47 | 21.70 | <=23.98 | Pass |
| | | | 24 | 17.44 | 3.47 | 20.91 | <=23.98 | Pass |
| | | 12 | 0 | 16.96 | 3.47 | 20.43 | <=23.98 | Pass |
| | | | 6 | 17.16 | 3.47 | 20.63 | <=23.98 | Pass |
| | | | 13 | 16.93 | 3.47 | 20.40 | <=23.98 | Pass |
| | | 25 | 0 | 16.82 | 3.47 | 20.29 | <=23.98 | Pass |
| 64QAM | 2352.5 | 1 | 0 | 16.62 | 3.47 | 20.09 | <=23.98 | Pass |
| | | | 13 | 16.94 | 3.47 | 20.41 | <=23.98 | Pass |
| | | | 24 | 16.34 | 3.47 | 19.81 | <=23.98 | Pass |
| | | 12 | 0 | 15.70 | 3.47 | 19.17 | <=23.98 | Pass |
| | | | 6 | 16.06 | 3.47 | 19.53 | <=23.98 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 13 | 15.63 | 3.47 | 19.10 | <=23.98 | Pass |
| | | 25 | 0 | 15.76 | 3.47 | 19.23 | <=23.98 | Pass |
| | 2355 | 1 | 0 | 16.90 | 3.47 | 20.37 | <=23.98 | Pass |
| | | | 13 | 17.50 | 3.47 | 20.97 | <=23.98 | Pass |
| | | | 24 | 16.01 | 3.47 | 19.48 | <=23.98 | Pass |
| | | 12 | 0 | 15.69 | 3.47 | 19.16 | <=23.98 | Pass |
| | | | 6 | 16.25 | 3.47 | 19.72 | <=23.98 | Pass |
| | | | 13 | 15.79 | 3.47 | 19.26 | <=23.98 | Pass |
| | | 25 | 0 | 15.85 | 3.47 | 19.32 | <=23.98 | Pass |
| | 2357.5 | 1 | 0 | 16.61 | 3.47 | 20.08 | <=23.98 | Pass |
| | | | 13 | 17.31 | 3.47 | 20.78 | <=23.98 | Pass |
| | | | 24 | 16.52 | 3.47 | 19.99 | <=23.98 | Pass |
| | | 12 | 0 | 15.88 | 3.47 | 19.35 | <=23.98 | Pass |
| | | | 6 | 16.15 | 3.47 | 19.62 | <=23.98 | Pass |
| | | | 13 | 15.87 | 3.47 | 19.34 | <=23.98 | Pass |
| | | 25 | 0 | 15.80 | 3.47 | 19.27 | <=23.98 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.2 B40b_10MHz_EIRP

### 1.2.1 Test Result

| Band: 40b / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 2355 | 1 | 0 | 18.92 | 3.47 | 22.39 | <=23.98 | Pass |
| | | | 25 | 19.29 | 3.47 | 22.76 | <=23.98 | Pass |
| | | | 49 | 18.70 | 3.47 | 22.17 | <=23.98 | Pass |
| | | 25 | 0 | 17.82 | 3.47 | 21.29 | <=23.98 | Pass |
| | | | 13 | 18.34 | 3.47 | 21.81 | <=23.98 | Pass |
| | | | 25 | 18.00 | 3.47 | 21.47 | <=23.98 | Pass |
| | | 50 | 0 | 18.06 | 3.47 | 21.53 | <=23.98 | Pass |
| 16QAM | 2355 | 1 | 0 | 18.07 | 3.47 | 21.54 | <=23.98 | Pass |
| | | | 25 | 17.94 | 3.47 | 21.41 | <=23.98 | Pass |
| | | | 49 | 17.56 | 3.47 | 21.03 | <=23.98 | Pass |
| | | 25 | 0 | 16.87 | 3.47 | 20.34 | <=23.98 | Pass |
| | | | 13 | 17.37 | 3.47 | 20.84 | <=23.98 | Pass |
| | | | 25 | 17.04 | 3.47 | 20.51 | <=23.98 | Pass |
| | | 50 | 0 | 17.08 | 3.47 | 20.55 | <=23.98 | Pass |
| 64QAM | 2355 | 1 | 0 | 16.22 | 3.47 | 19.69 | <=23.98 | Pass |
| | | | 25 | 17.39 | 3.47 | 20.86 | <=23.98 | Pass |
| | | | 49 | 15.94 | 3.47 | 19.41 | <=23.98 | Pass |
| | | 25 | 0 | 15.75 | 3.47 | 19.22 | <=23.98 | Pass |
| | | | 13 | 16.27 | 3.47 | 19.74 | <=23.98 | Pass |
| | | | 25 | 15.93 | 3.47 | 19.40 | <=23.98 | Pass |
| | | 50 | 0 | 16.00 | 3.47 | 19.47 | <=23.98 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

# 2. Frequency Stability

## 2.1 B40b_5MHz

### 2.1.1 Test Result

| Band: 40b / Bandwidth: 5MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 2352.5 | 25 | 0 | 20 | 6.12 | 4.120 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | 3.905 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | 15.678 | 0.0067 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | 17.180 | 0.0073 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | 14.577 | 0.0062 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 16.623 | 0.0071 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | 15.306 | 0.0065 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | 3.419 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | 4.463 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | 14.477 | 0.0062 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 4.435 | 0.0019 | -2.5 to 2.5 | Pass |
| | 2355 | 25 | 0 | 20 | 6.12 | -4.005 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | -0.458 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | -2.232 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | -3.319 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | -4.478 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 4.621 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | 5.708 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | -2.775 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | -2.704 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | 5.279 | 0.0022 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 5.207 | 0.0022 | -2.5 to 2.5 | Pass |
| | 2357.5 | 25 | 0 | 20 | 6.12 | 11.773 | 0.0050 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | 10.643 | 0.0045 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | 10.171 | 0.0043 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | -0.157 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | 1.645 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | -1.259 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | 0.801 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | 12.560 | 0.0053 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | 3.462 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | 5.064 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 13.289 | 0.0056 | -2.5 to 2.5 | Pass |
| 16QAM | 2352.5 | 25 | 0 | 20 | 6.12 | 6.766 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | 4.592 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | 5.536 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | 7.625 | 0.0032 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | 4.420 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 4.878 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | 0.415 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | 4.349 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | 5.808 | 0.0025 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | 4.048 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 3.390 | 0.0014 | -2.5 to 2.5 | Pass |
| | 2355 | 25 | 0 | 20 | 6.12 | -1.345 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | -2.418 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | -0.558 | -0.0002 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 7.20 | -4.077 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | 1.488 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 2.432 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | -4.835 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | -2.689 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | -1.373 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | -2.532 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | -2.303 | -0.0010 | -2.5 to 2.5 | Pass |
| | 2357.5 | 25 | 0 | 20 | 6.12 | 1.416 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | -1.960 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | 1.602 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | 2.589 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | 2.303 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 3.047 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | -0.257 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | -1.316 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | -0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | 0.858 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 3.233 | 0.0014 | -2.5 to 2.5 | Pass |
| 64QAM | 2352.5 | 25 | 0 | 20 | 6.12 | 16.351 | 0.0070 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | 13.947 | 0.0059 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | 3.462 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | 14.849 | 0.0063 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | -0.114 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 15.793 | 0.0067 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | 4.778 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | 14.448 | 0.0061 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | 16.623 | 0.0071 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | 15.006 | 0.0064 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 3.891 | 0.0017 | -2.5 to 2.5 | Pass |
| | 2355 | 25 | 0 | 20 | 6.12 | -4.964 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | -4.992 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | 6.824 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | 6.895 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | -4.063 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 7.024 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | -3.004 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | 7.038 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | 6.895 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | -2.747 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 8.254 | 0.0035 | -2.5 to 2.5 | Pass |
| | 2357.5 | 25 | 0 | 20 | 6.12 | 3.204 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | 14.405 | 0.0061 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | 15.163 | 0.0064 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | 2.561 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | 15.464 | 0.0066 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 3.877 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | 15.321 | 0.0065 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | 15.235 | 0.0065 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | 4.163 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | 2.060 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 14.648 | 0.0062 | -2.5 to 2.5 | Pass |

## 2.2 B40b_10MHz

### 2.2.1 Test Result

| Band: 40b / Bandwidth: 10MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 2355 | 50 | 0 | 20 | 6.12 | 2.875 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | 3.548 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | -6.709 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | -3.476 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | -4.749 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | 4.706 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | 4.234 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | -5.035 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | -4.249 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | -6.995 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | -4.106 | -0.0017 | -2.5 to 2.5 | Pass |
| 16QAM | 2355 | 50 | 0 | 20 | 6.12 | -6.680 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | -2.332 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | -3.691 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | -5.479 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | -5.136 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | -3.877 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | -3.119 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | -2.418 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | -3.018 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | -3.605 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | -2.947 | -0.0013 | -2.5 to 2.5 | Pass |
| 64QAM | 2355 | 50 | 0 | 20 | 6.12 | -3.748 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | | 7.20 | 5.851 | 0.0025 | -2.5 to 2.5 | Pass |
| | | | | | 8.28 | 5.493 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | -30 | 7.20 | 4.892 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | -20 | 7.20 | 6.938 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | -10 | 7.20 | -5.951 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 0 | 7.20 | 4.978 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 10 | 7.20 | 7.238 | 0.0031 | -2.5 to 2.5 | Pass |
| | | | | 30 | 7.20 | -6.151 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | 40 | 7.20 | -5.450 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 50 | 7.20 | 7.939 | 0.0034 | -2.5 to 2.5 | Pass |

# 3. 99% & 26dB Bandwidth

## 3.1 Band40b_OBW

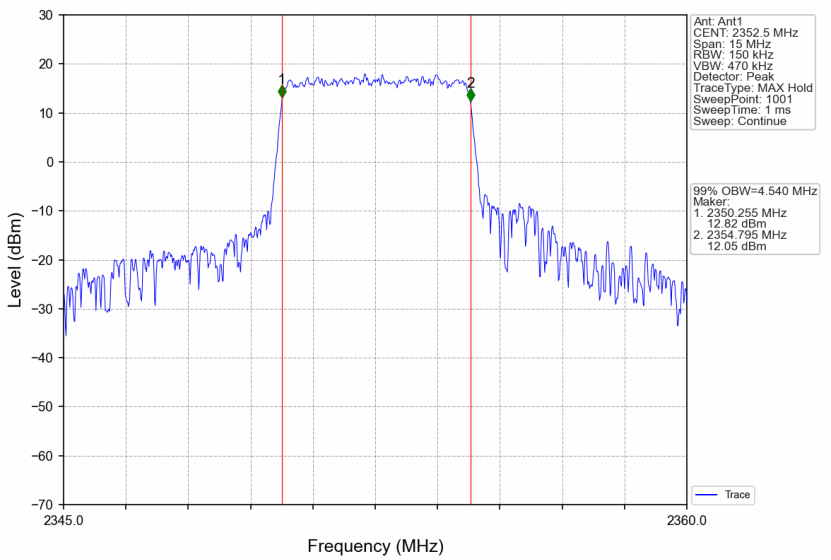
### 3.1.1 Test Result

| Band: 40b / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 2352.5 | 25 | 0 | 4.540 | / | Pass |
| | | 2355 | 25 | 0 | 4.538 | / | Pass |
| | | 2357.5 | 25 | 0 | 4.536 | / | Pass |
| | 16QAM | 2352.5 | 25 | 0 | 4.551 | / | Pass |

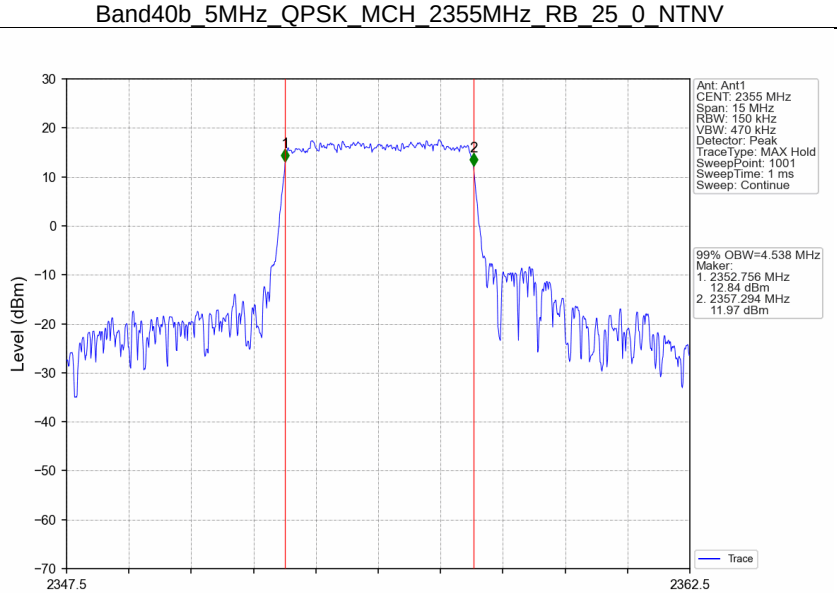
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 2355 | 25 | 0 | 4.548 | / | Pass |
| | | 2357.5 | 25 | 0 | 4.550 | / | Pass |
| | 64QAM | 2352.5 | 25 | 0 | 4.534 | / | Pass |
| | | 2355 | 25 | 0 | 4.544 | / | Pass |
| | | 2357.5 | 25 | 0 | 4.549 | / | Pass |
| 10 | QPSK | 2355 | 50 | 0 | 9.042 | / | Pass |
| | 16QAM | 2355 | 50 | 0 | 9.035 | / | Pass |
| | 64QAM | 2355 | 50 | 0 | 9.055 | / | Pass |

### 3.1.2 Test Graph

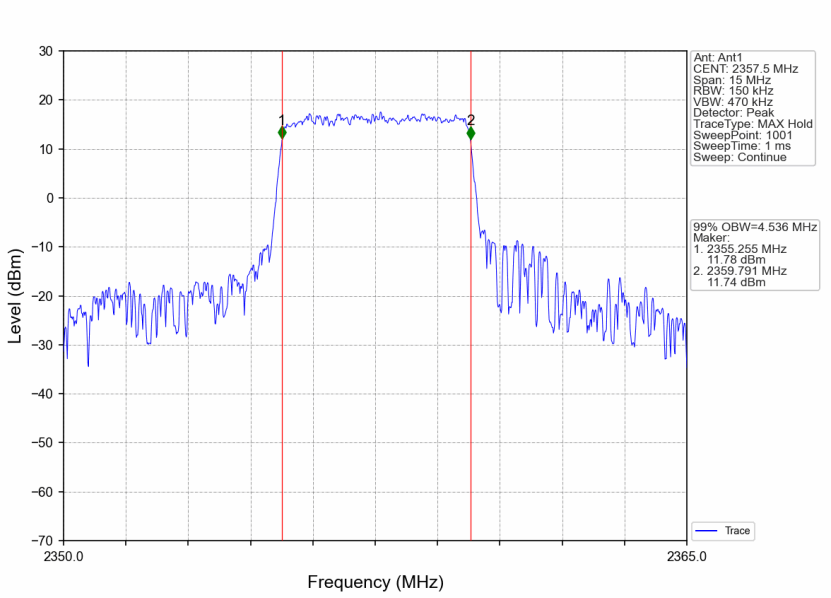
Band40b_5MHz_QPSK_LCH_2352.5MHz_RB_25_0_NTNV



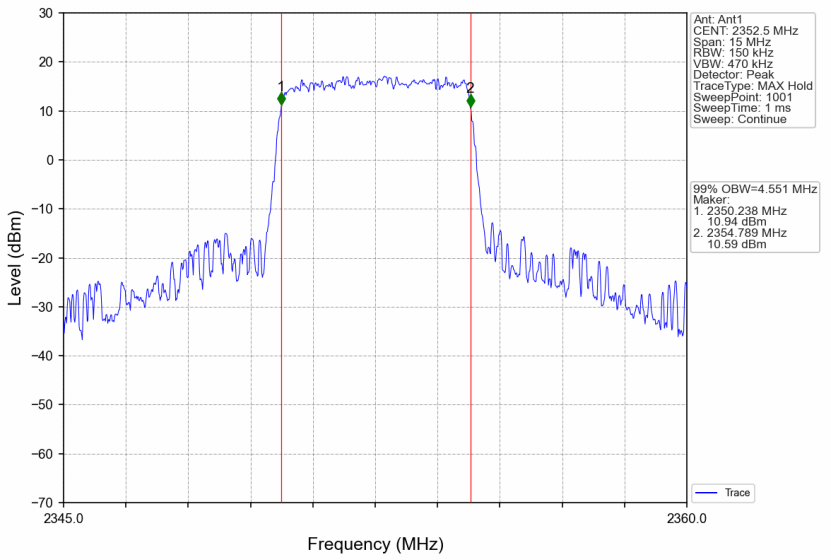

Band40b_5MHz_QPSK_MCH_2355MHz_RB_25_0_NTNV



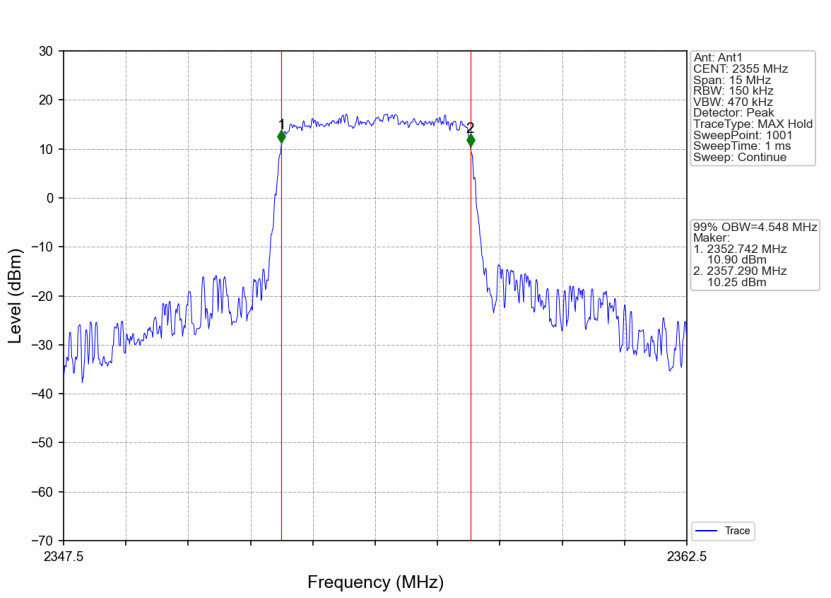
Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_25_0_NTNV



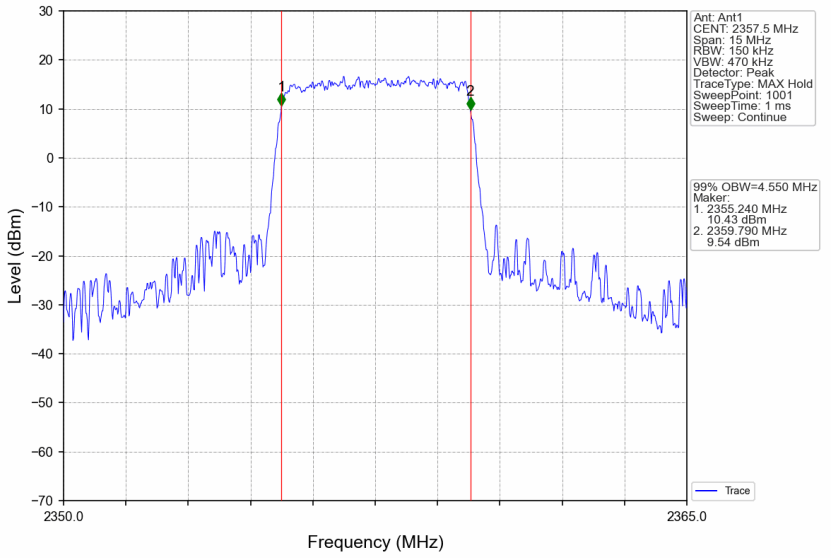

Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_25_0_NTNV



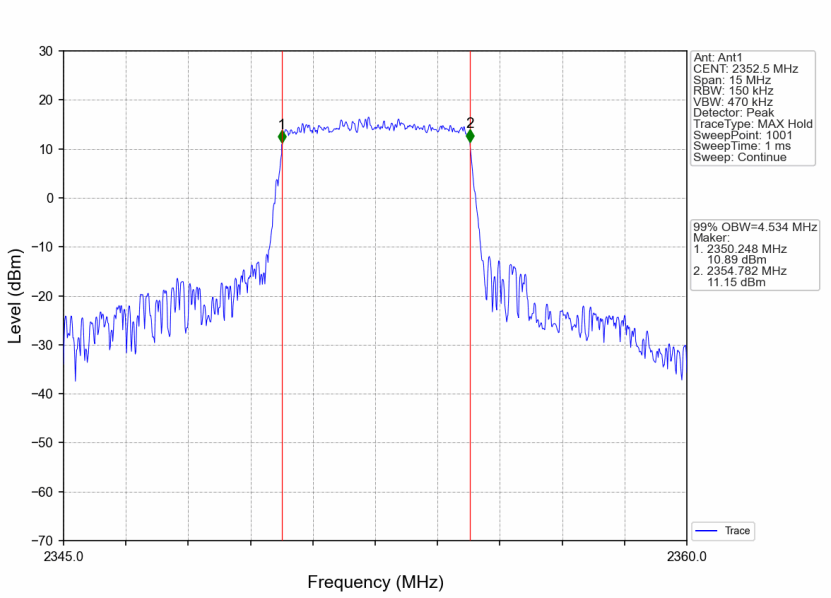
Band40b_5MHz_16QAM_MCH_2355MHz_RB_25_0_NTNV



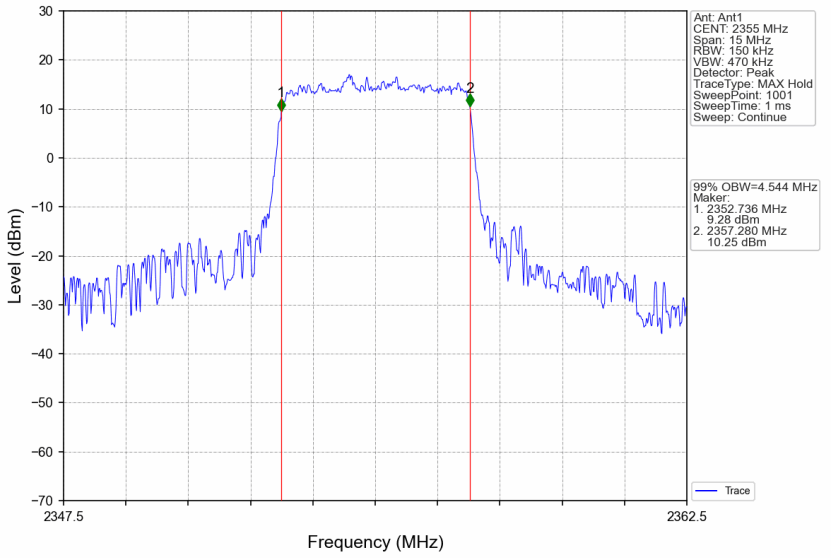

Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_25_0_NTNV



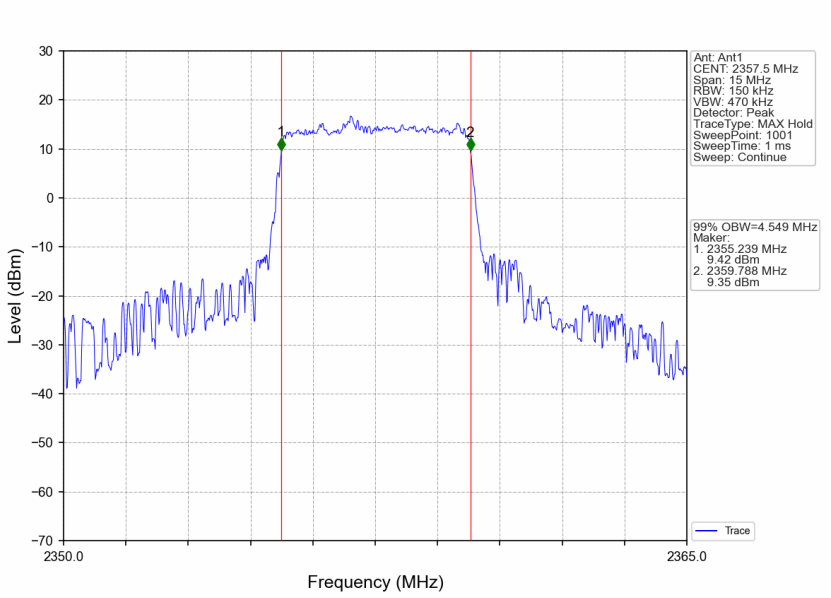
Band40b_5MHz_64QAM_LCH_2352.5MHz_RB_25_0_NTNV



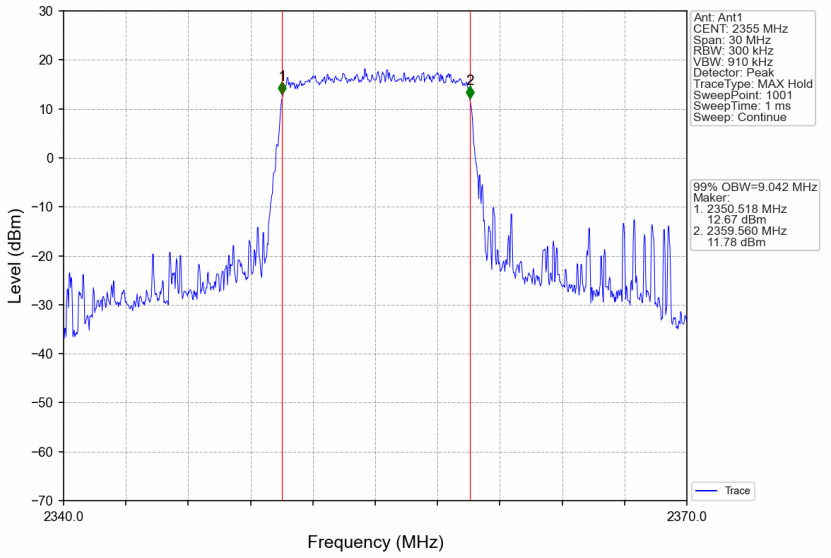

Band40b_5MHz_64QAM_MCH_2355MHz_RB_25_0_NTNV



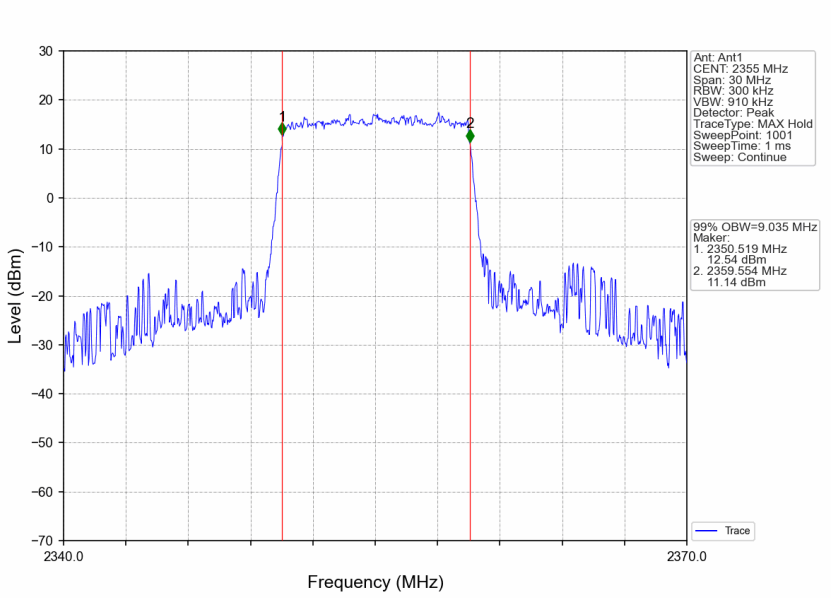
Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_25_0_NTNV



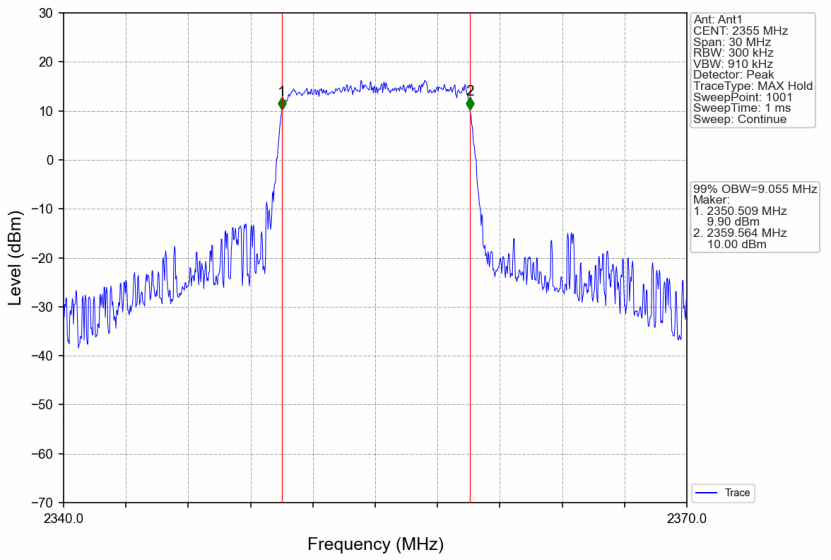

Band40b_10MHz_QPSK_MCH_2355MHz_RB_50_0_NTNV



Band40b_10MHz_16QAM_MCH_2355MHz_RB_50_0_NTNV




Band40b_10MHz_64QAM_MCH_2355MHz_RB_50_0_NTNV



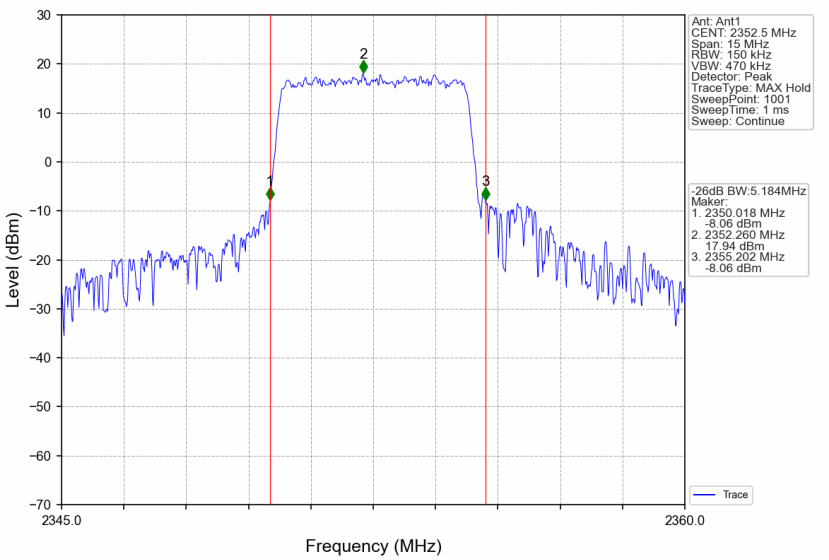
# 4. Band40b_XDB

## 4.1.1 Test Result

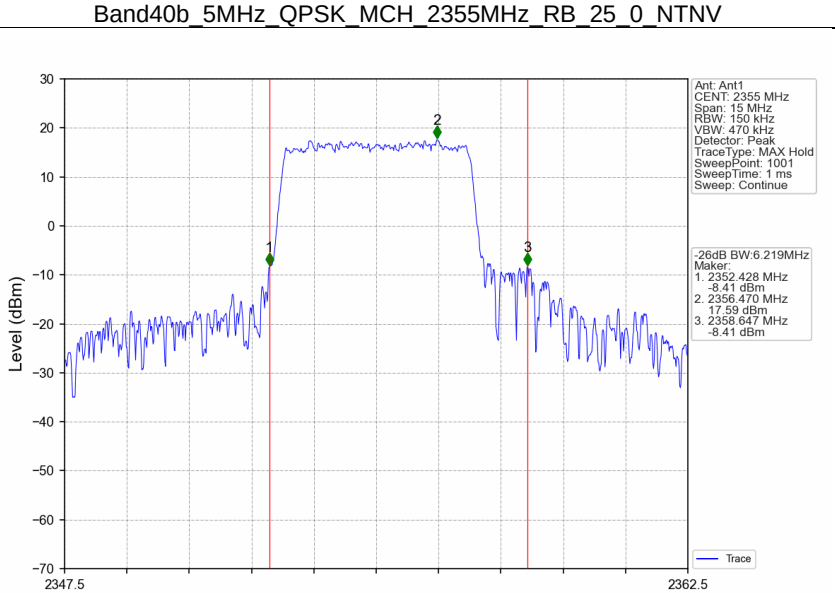
| Band: 40b / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 2352.5 | 25 | 0 | 5.184 | / | Pass |
| | | 2355 | 25 | 0 | 6.219 | / | Pass |
| | | 2357.5 | 25 | 0 | 5.146 | / | Pass |
| | 16QAM | 2352.5 | 25 | 0 | 5.044 | / | Pass |
| | | 2355 | 25 | 0 | 5.061 | / | Pass |
| | | 2357.5 | 25 | 0 | 5.054 | / | Pass |
| | 64QAM | 2352.5 | 25 | 0 | 5.064 | / | Pass |
| | | 2355 | 25 | 0 | 5.036 | / | Pass |
| | | 2357.5 | 25 | 0 | 5.058 | / | Pass |
| 10 | QPSK | 2355 | 50 | 0 | 10.173 | / | Pass |
| | 16QAM | 2355 | 50 | 0 | 10.005 | / | Pass |
| | 64QAM | 2355 | 50 | 0 | 10.300 | / | Pass |

## 4.1.2 Test Graph

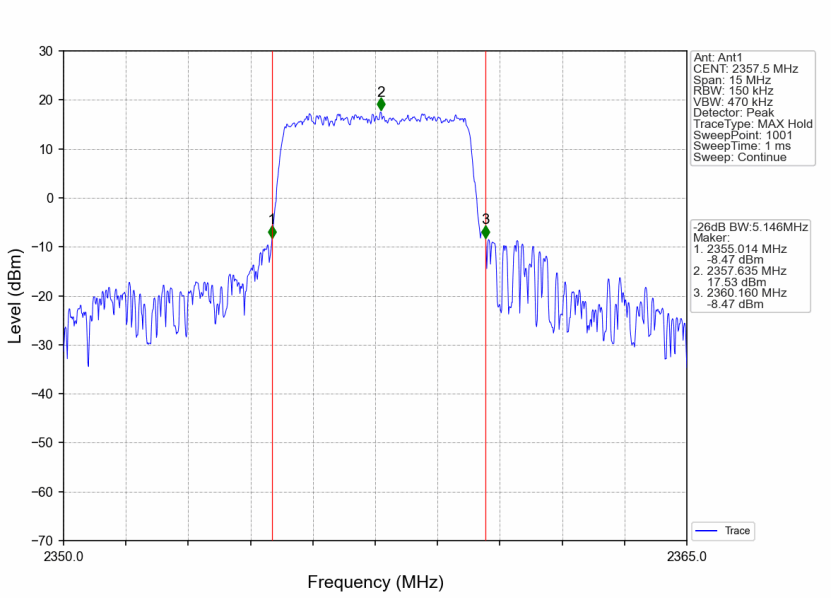
Band40b_5MHz_QPSK_LCH_2352.5MHz_RB_25_0_NTNV



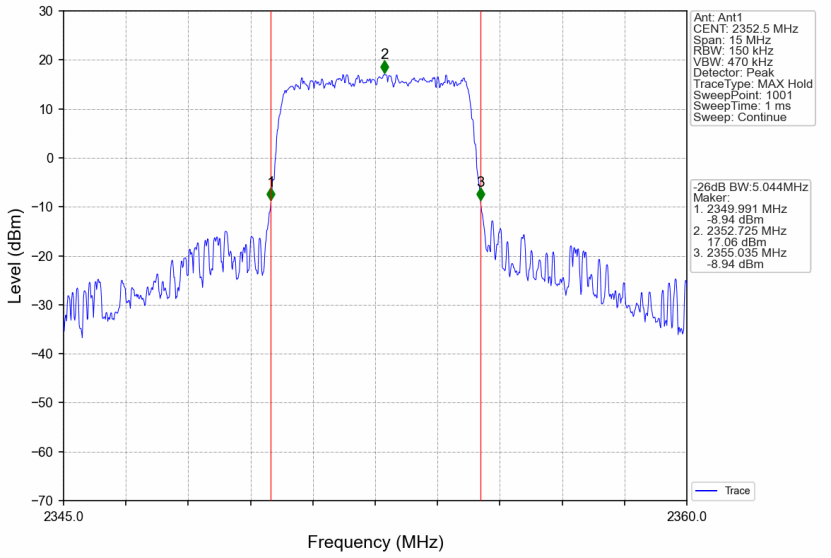

Band40b_5MHz_QPSK_MCH_2355MHz_RB_25_0_NTNV



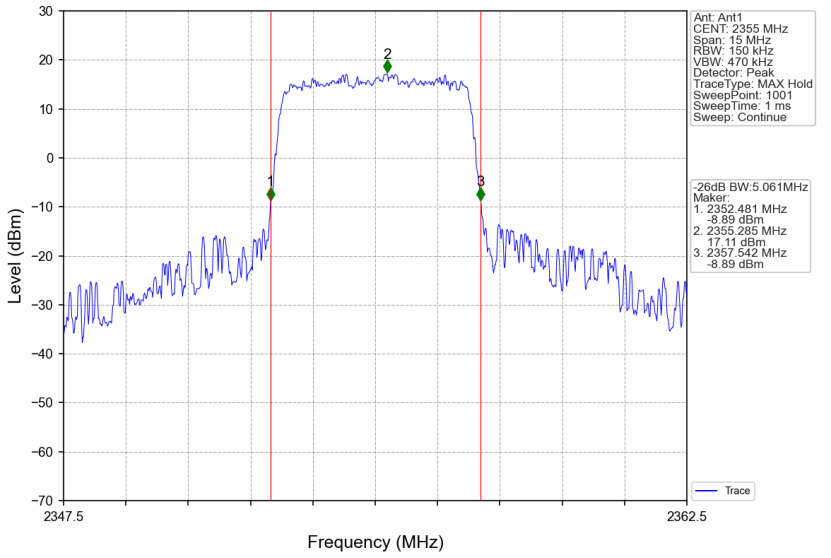
Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_25_0_NTNV



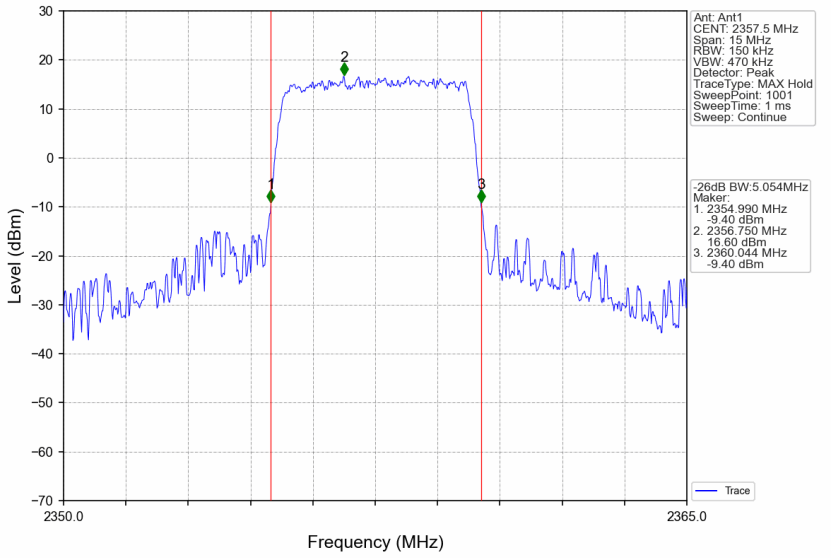

Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_25_0_NTNV



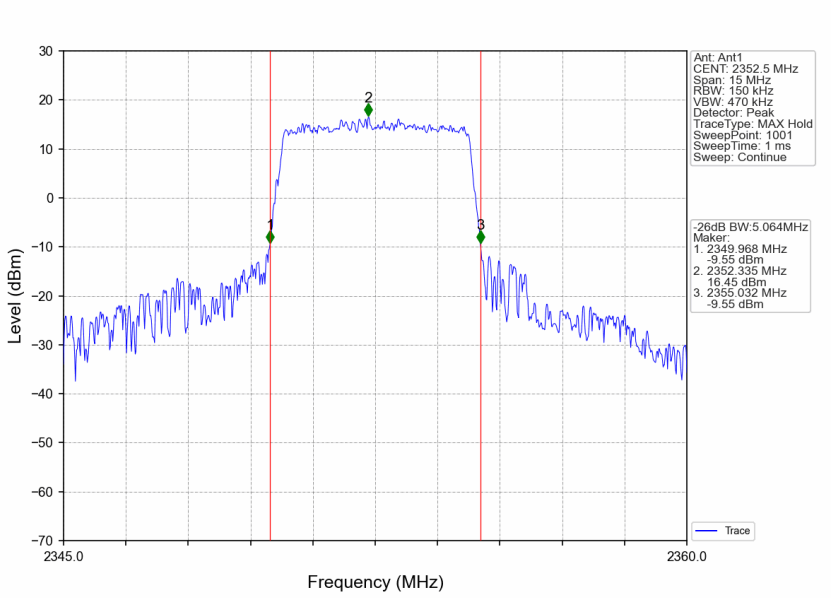
Band40b_5MHz_16QAM_MCH_2355MHz_RB_25_0_NTNV



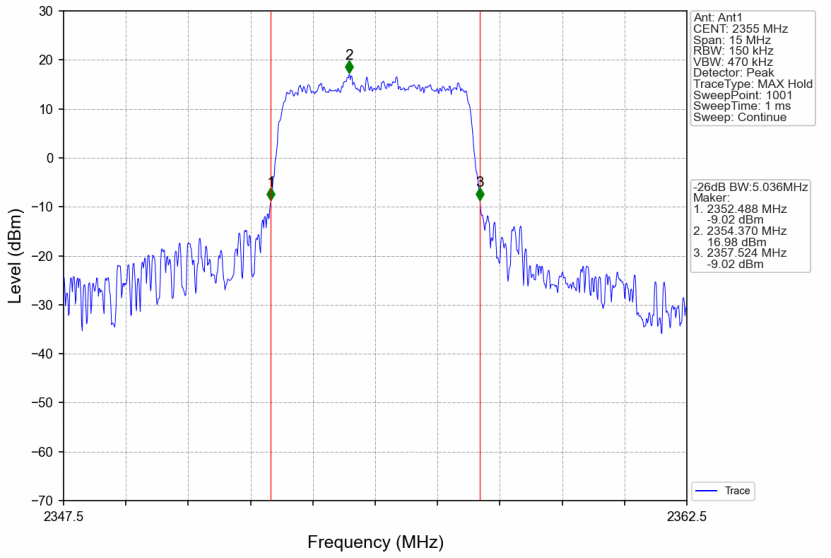

Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_25_0_NTNV



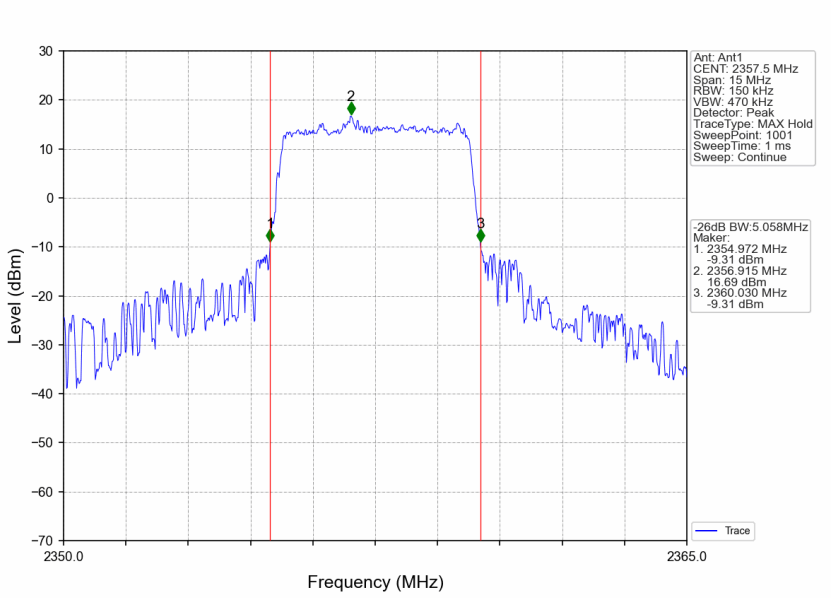
Band40b_5MHz_64QAM_LCH_2352.5MHz_RB_25_0_NTNV



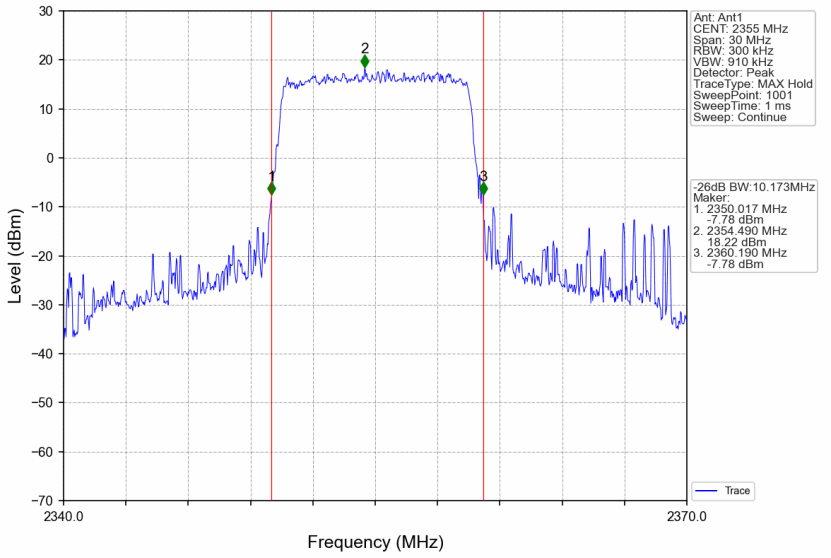

Band40b_5MHz_64QAM_MCH_2355MHz_RB_25_0_NTNV



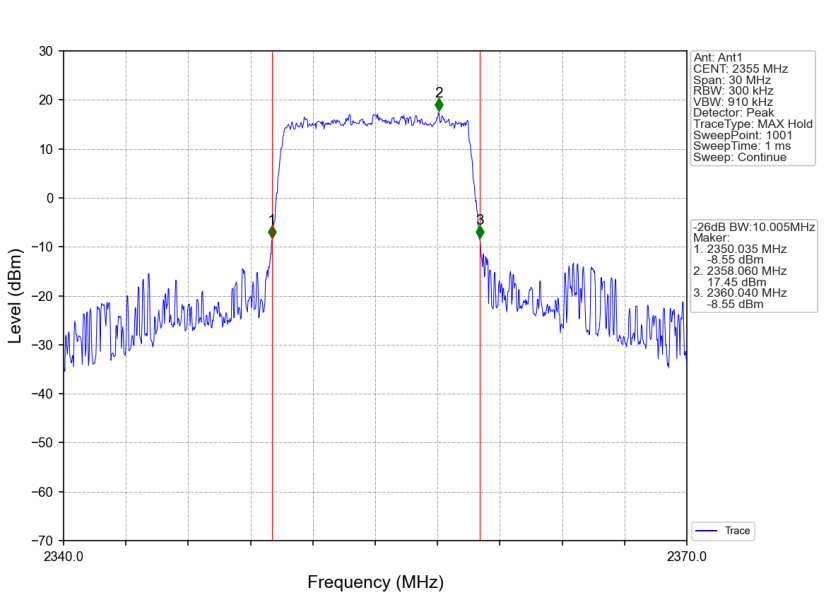
Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_25_0_NTNV



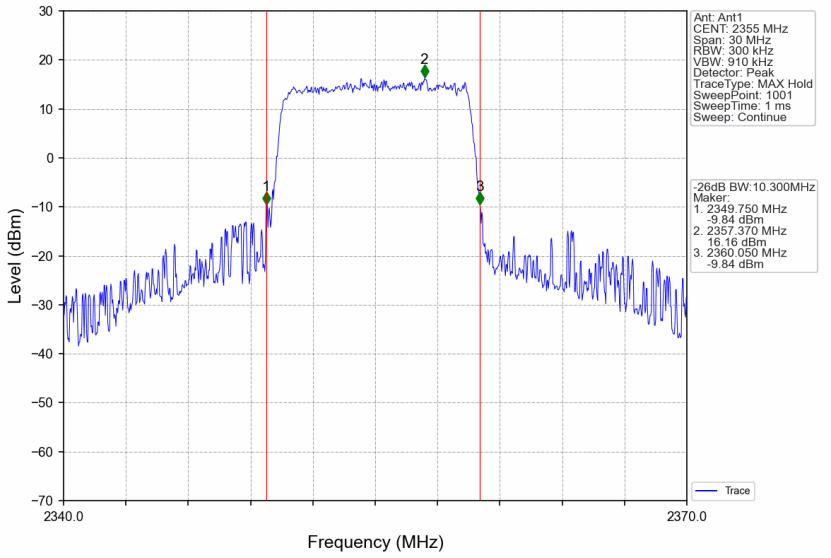

Band40b_10MHz_QPSK_MCH_2355MHz_RB_50_0_NTNV



Band40b_10MHz_16QAM_MCH_2355MHz_RB_50_0_NTNV




Band40b_10MHz_64QAM_MCH_2355MHz_RB_50_0_NTNV



# 5. Peak-Average Ratio

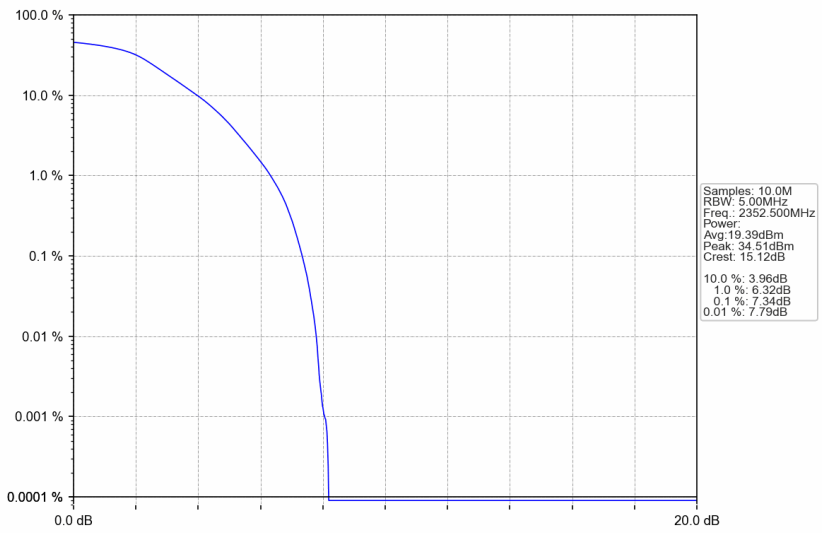
## 5.1 B40b_5MHz

### 5.1.1 Test Result

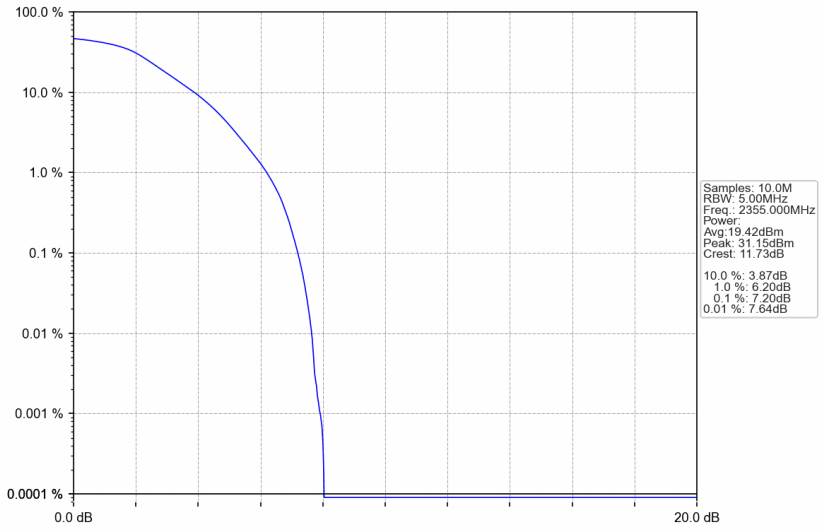
| Band: 40b / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2352.5 | 25 | 0 | 7.34 | <=13 | Pass |
| | 2355 | 25 | 0 | 7.20 | <=13 | Pass |
| | 2357.5 | 25 | 0 | 7.27 | <=13 | Pass |
| 16QAM | 2352.5 | 25 | 0 | 8.11 | <=13 | Pass |
| | 2355 | 25 | 0 | 8.18 | <=13 | Pass |
| | 2357.5 | 25 | 0 | 8.08 | <=13 | Pass |
| 64QAM | 2352.5 | 25 | 0 | 8.70 | <=13 | Pass |
| | 2355 | 25 | 0 | 8.62 | <=13 | Pass |
| | 2357.5 | 25 | 0 | 8.63 | <=13 | Pass |

## 5.1.2 Test Graph

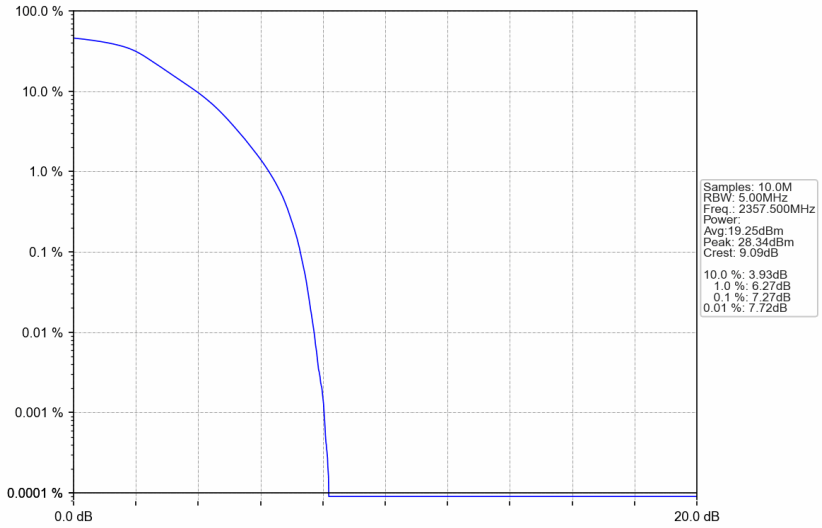
Band40b_5MHz_QPSK_LCH_2352.5MHz_RB_25_0_NTNV



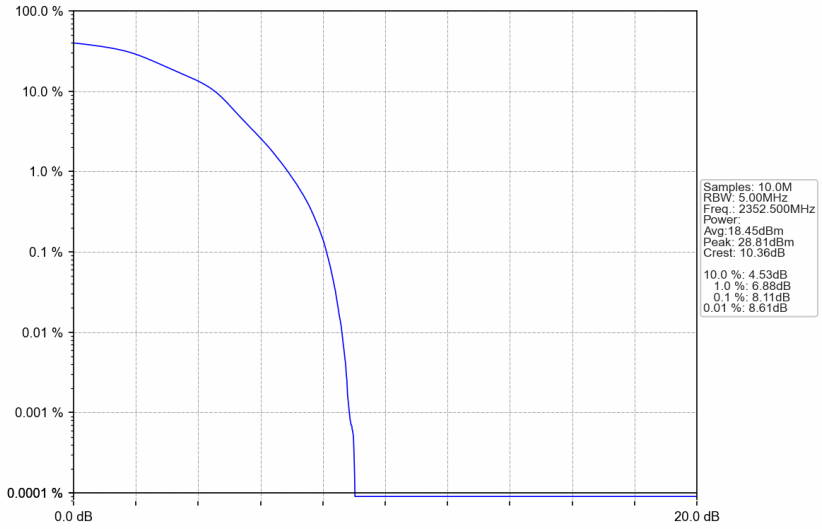

Band40b_5MHz_QPSK_MCH_2355MHz_RB_25_0_NTNV



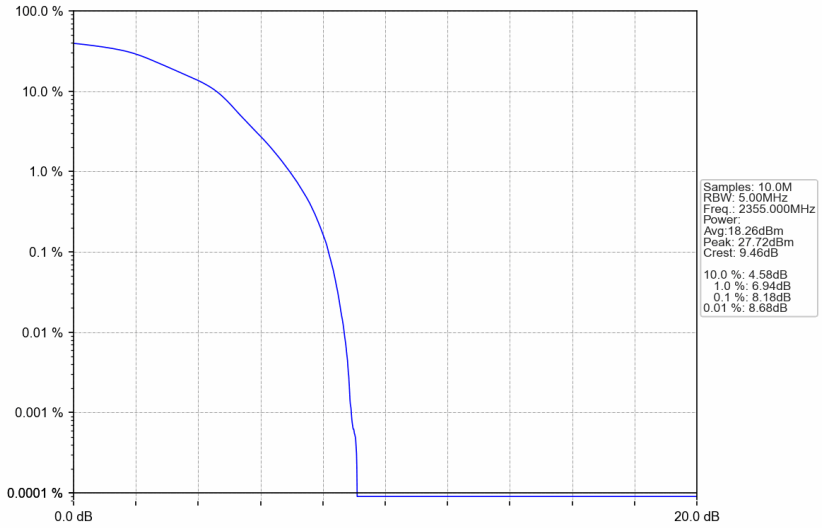
Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_25_0_NTNV



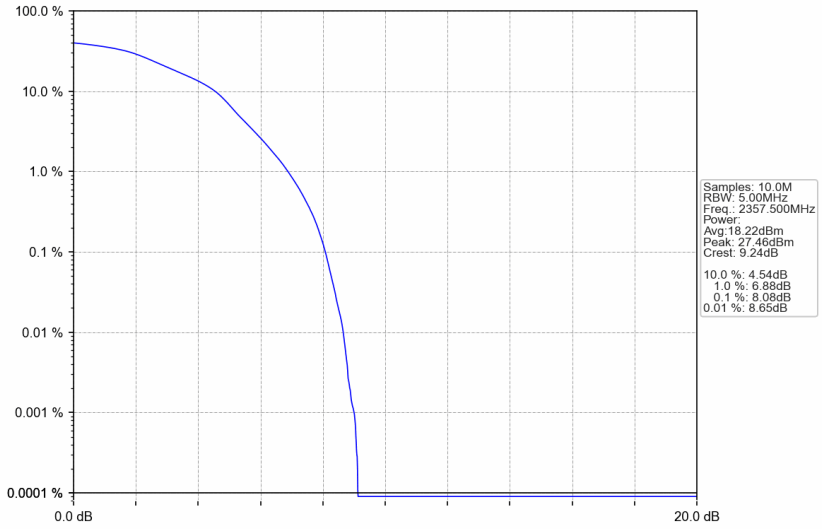

Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_25_0_NTNV



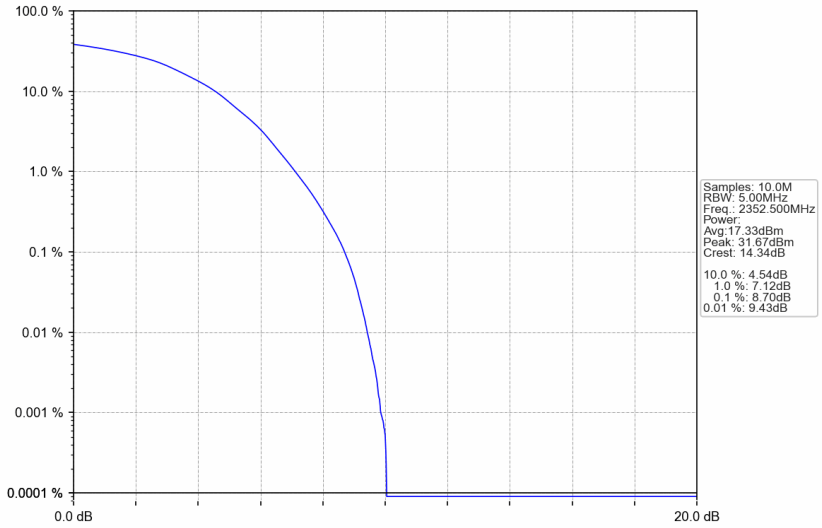
Band40b_5MHz_16QAM_MCH_2355MHz_RB_25_0_NTNV



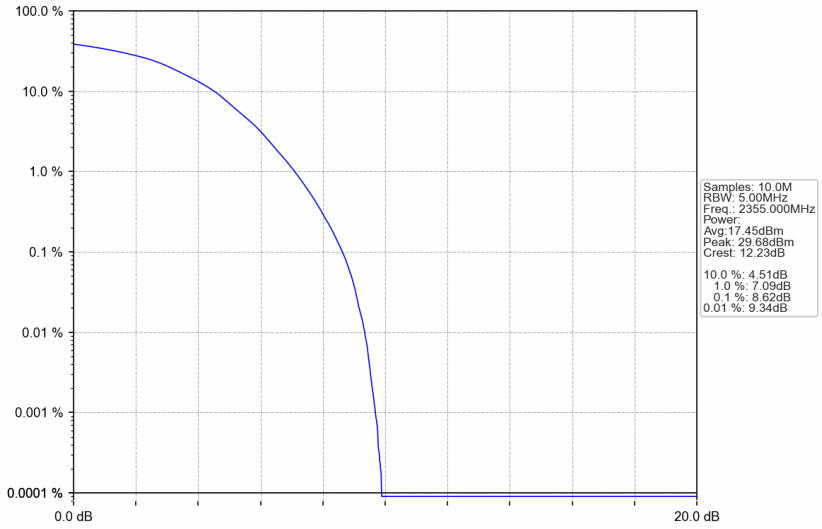

Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_25_0_NTNV



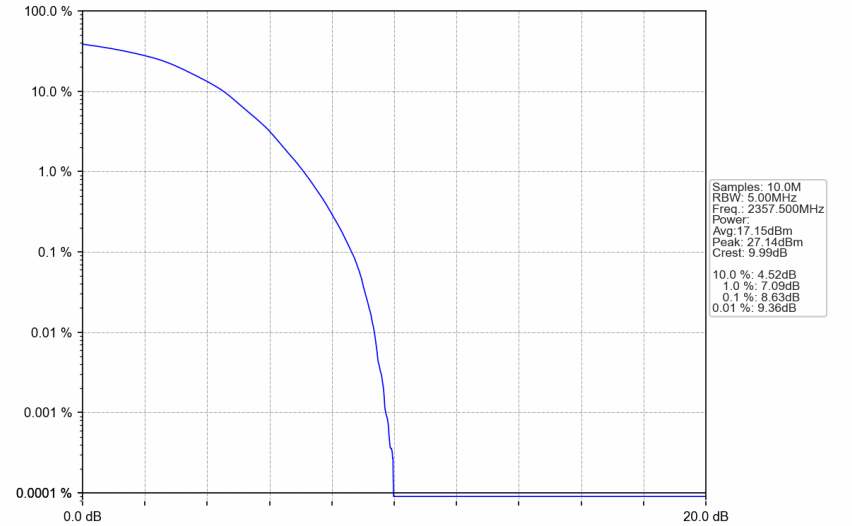
Band40b_5MHz_64QAM_LCH_2352.5MHz_RB_25_0_NTNV




Band40b_5MHz_64QAM_MCH_2355MHz_RB_25_0_NTNV



Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_25_0_NTNV



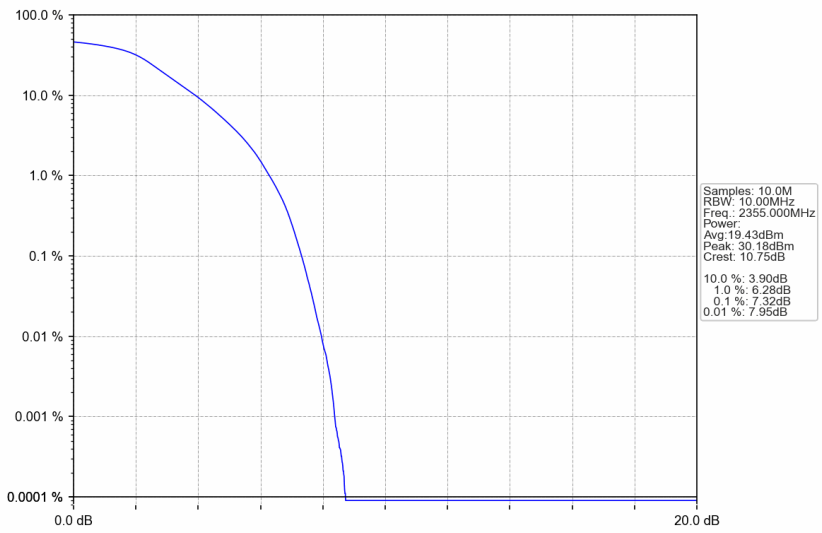

## 5.2 B40b_10MHz

### 5.2.1 Test Result

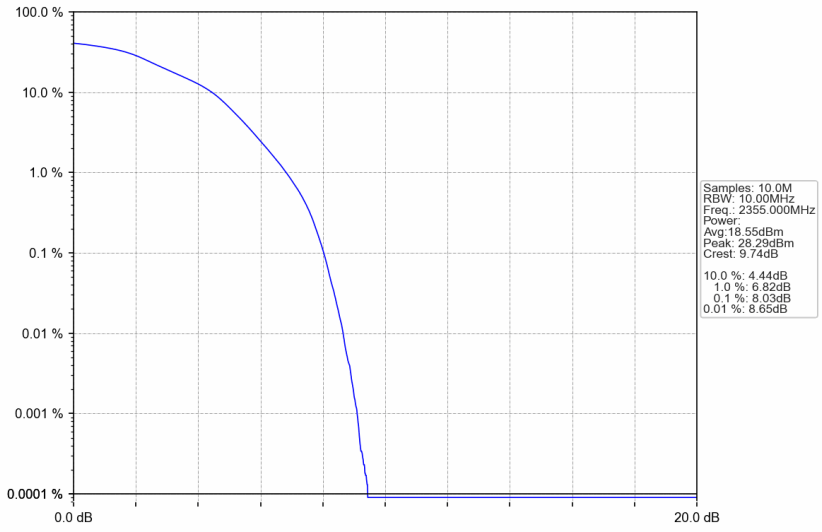
| Band: 40b / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2355 | 50 | 0 | 7.32 | <=13 | Pass |
| 16QAM | 2355 | 50 | 0 | 8.03 | <=13 | Pass |
| 64QAM | 2355 | 50 | 0 | 8.78 | <=13 | Pass |

## 5.2.2 Test Graph

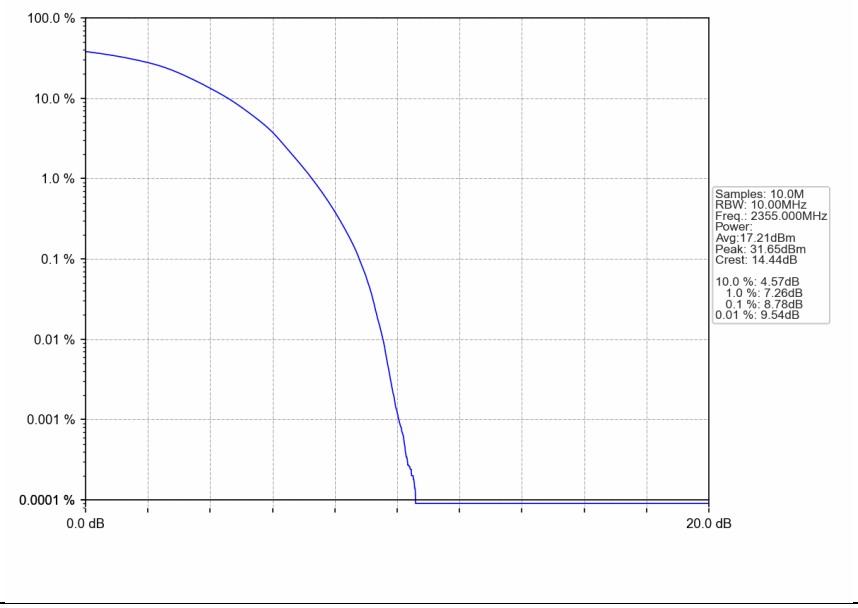
Band40b_10MHz_QPSK_MCH_2355MHz_RB_50_0_NTNV




Band40b_10MHz_16QAM_MCH_2355MHz_RB_50_0_NTNV



Band40b_10MHz_64QAM_MCH_2355MHz_RB_50_0_NTNV




# 6. Spurious Emission

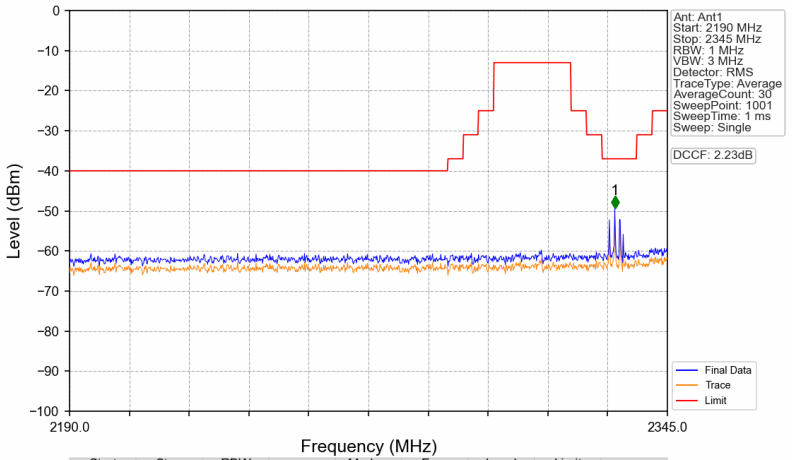
## 6.1 B40b_5MHz

### 6.1.1 Test Result

| Band: 40b / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2352.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 2355 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2357.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2352.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 2355 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2357.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 2352.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 2355 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2357.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

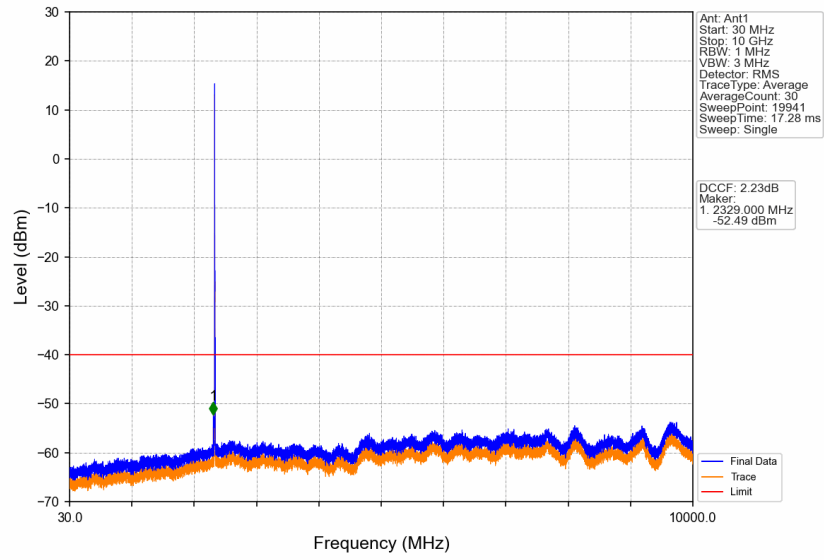
## 6.1.2 Test Graph

Band40b_5MHz_QPSK_LCH_2352.5MHz_RB_1_0_NTNV

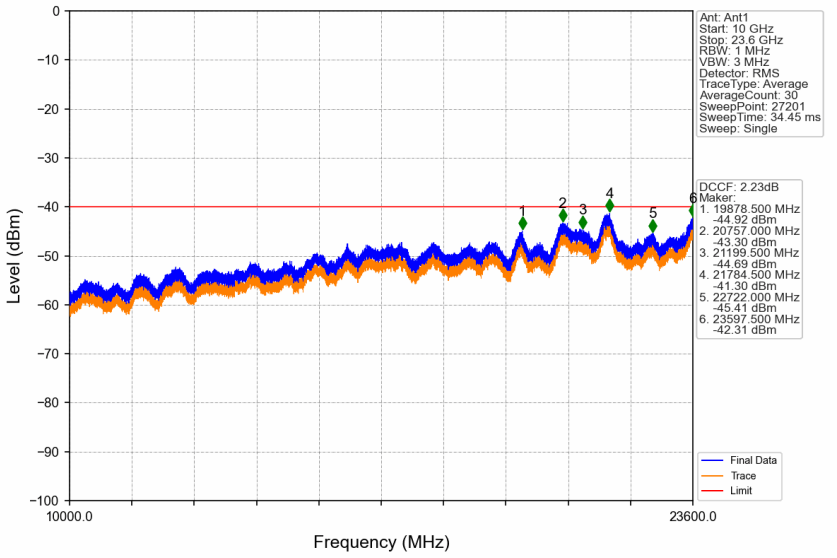



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2331.360 | -49.31 | -37 | Pass |

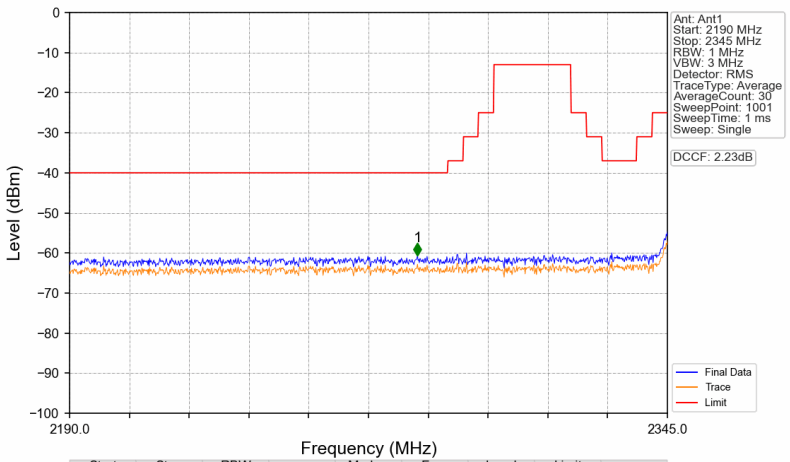
Band40b_5MHz_QPSK_LCH_2352.5MHz_RB_1_0_NTNV



Band40b_5MHz_QPSK_LCH_2352.5MHz_RB_1_0_NTNV

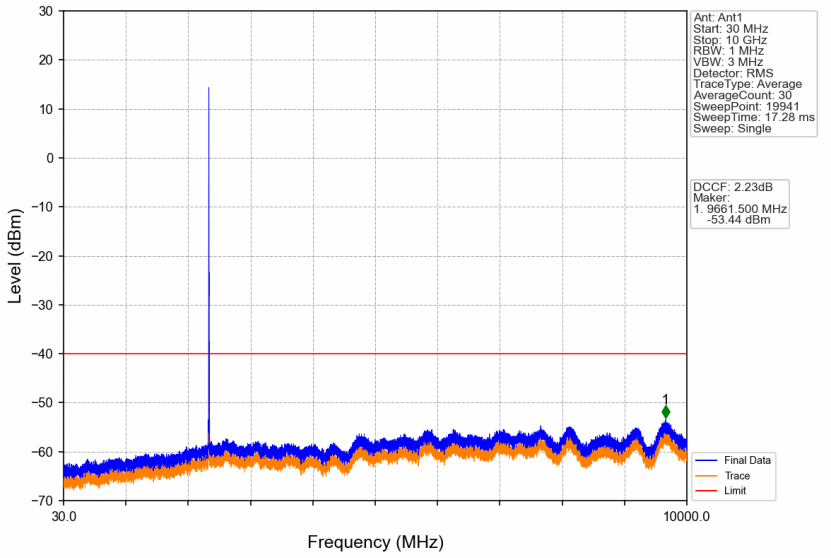



Band40b_5MHz_QPSK_LCH_2352.5MHz_RB_25_0_NTNV

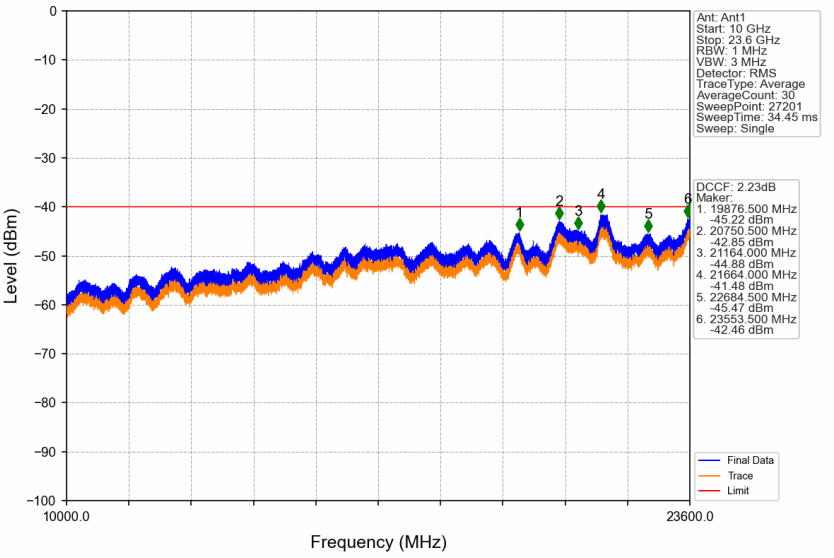



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2280.210 | -60.58 | -40 | Pass |

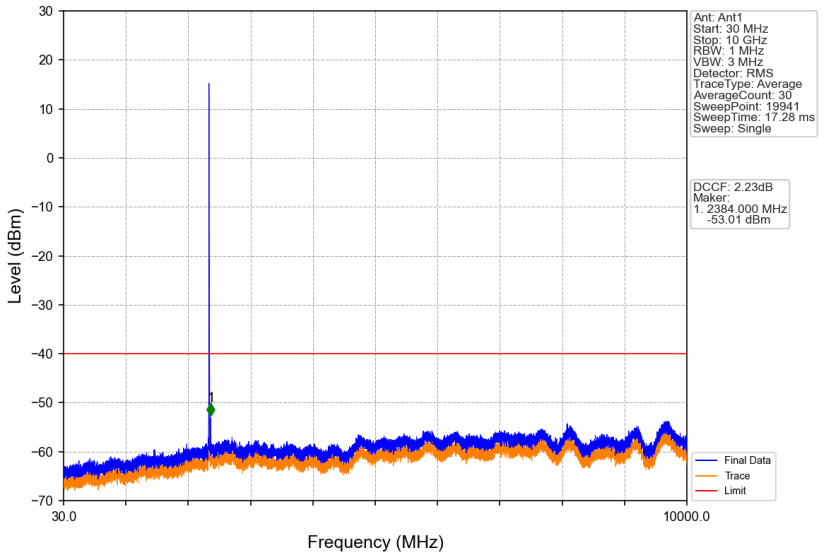
Band40b_5MHz_QPSK_MCH_2355MHz_RB_1_0_NTNV



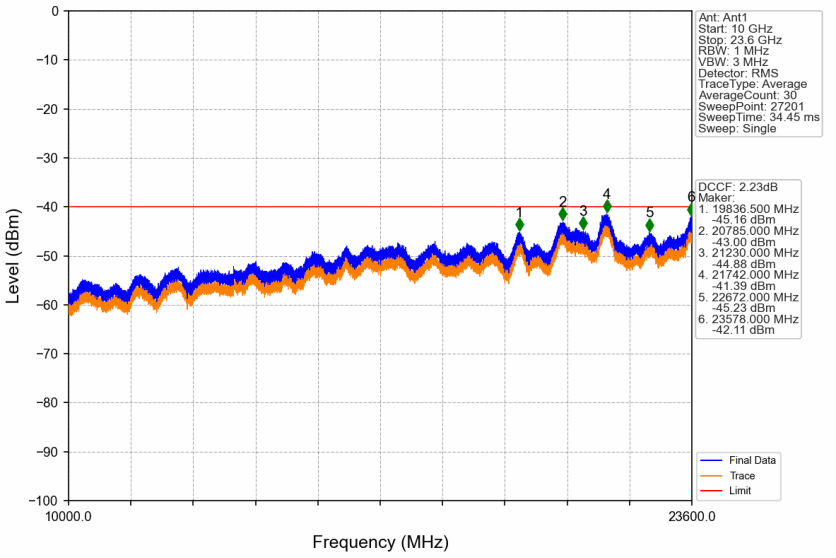

Band40b_5MHz_QPSK_MCH_2355MHz_RB_1_0_NTNV



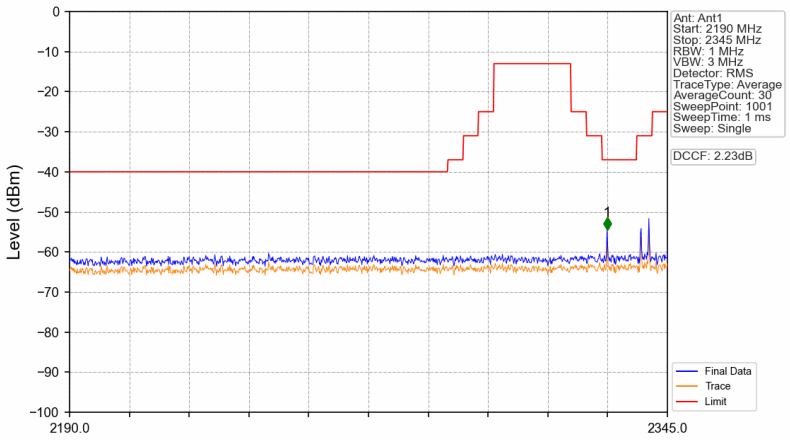
Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_1_0_NTNV




Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_1_0_NTNV

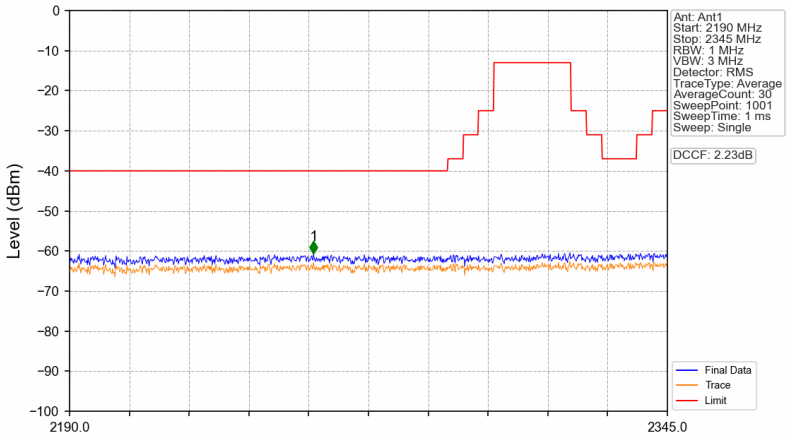


Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_1_24_NTNV



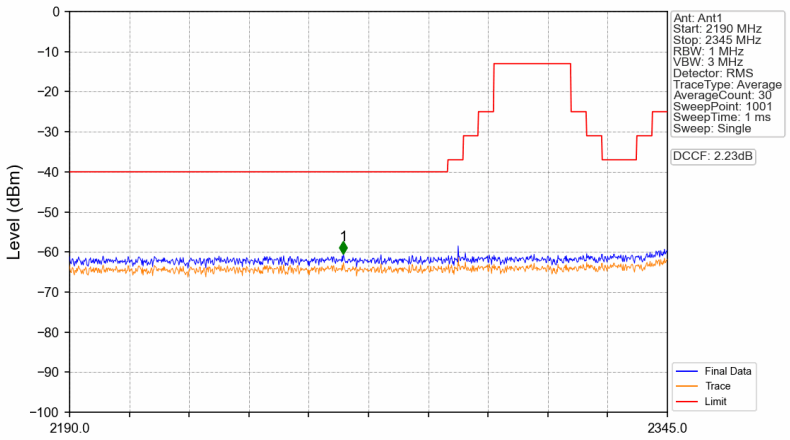

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2329.345 | -54.45 | -37 | Pass |

Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_25_0_NTNV



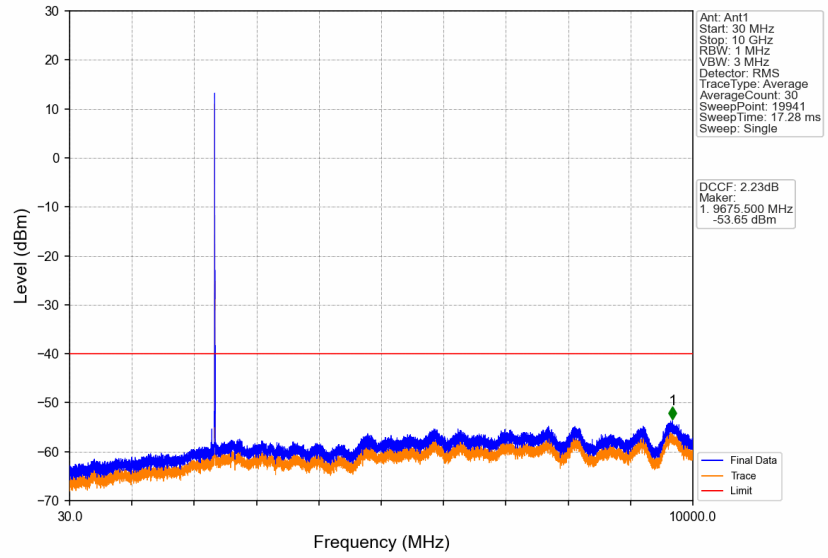

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2253.240 | -60.64 | -40 | Pass |

Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_1_0_NTNV

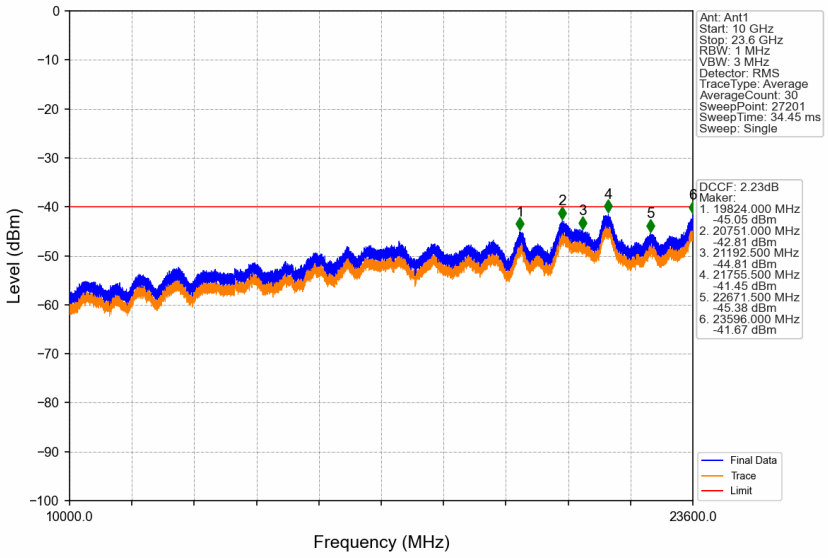



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2260.990 | -60.46 | -40 | Pass |

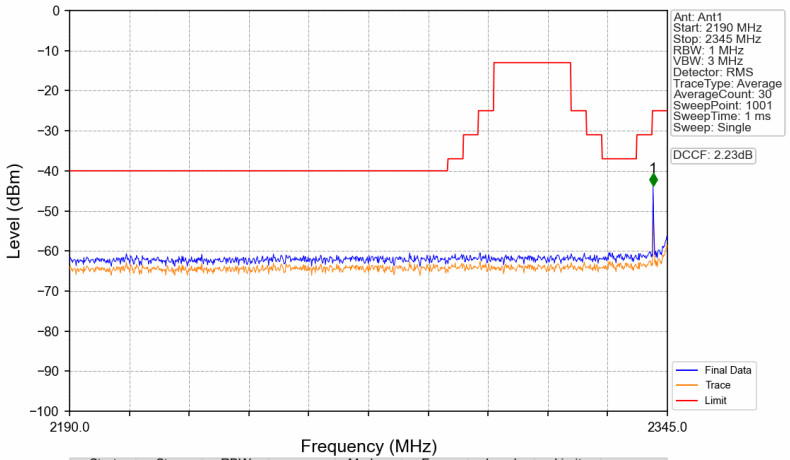
Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_1_0_NTNV



Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_1_0_NTNV

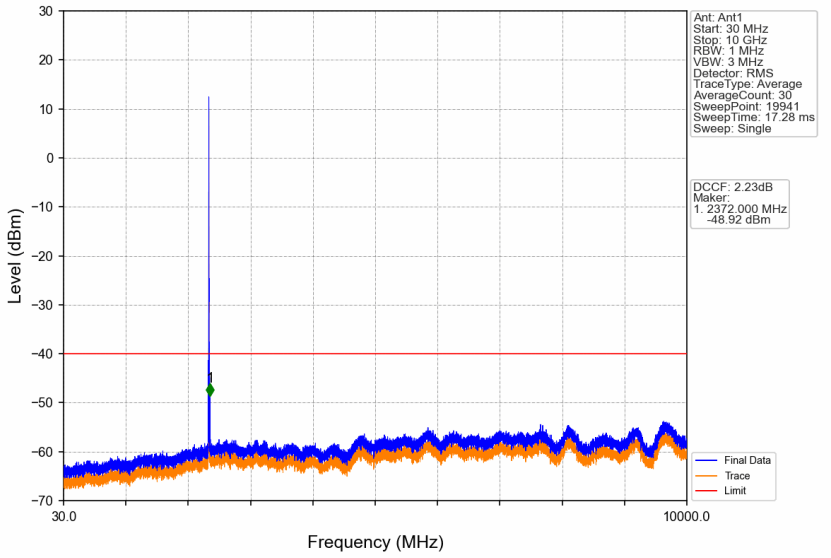



Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_25_0_NTNV

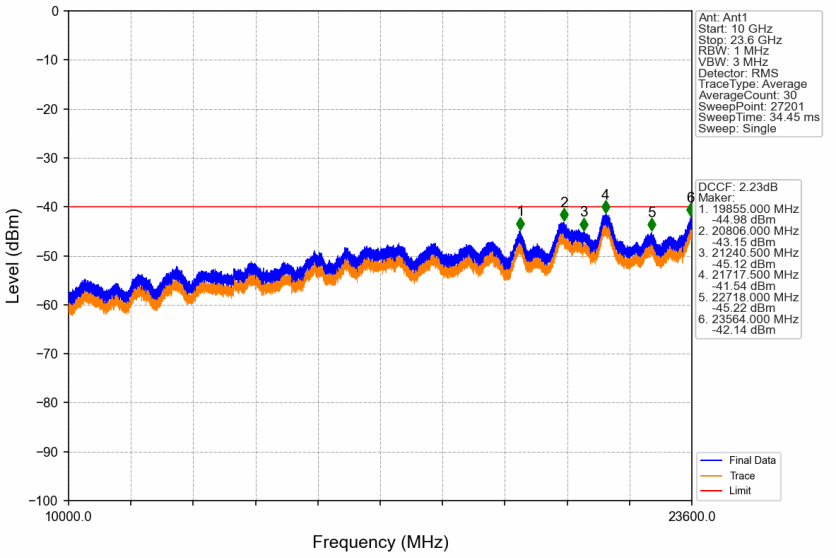



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2341.280 | -43.70 | -25 | Pass |

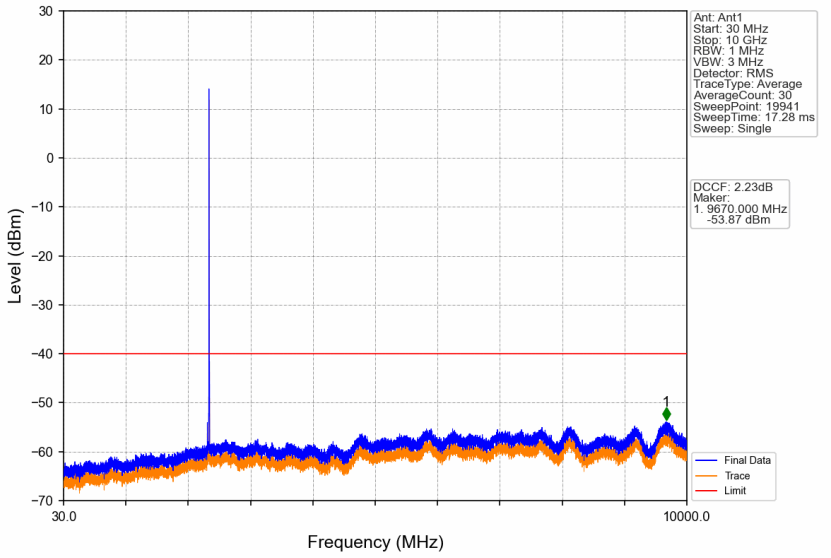
Band40b_5MHz_16QAM_MCH_2355MHz_RB_1_0_NTNV



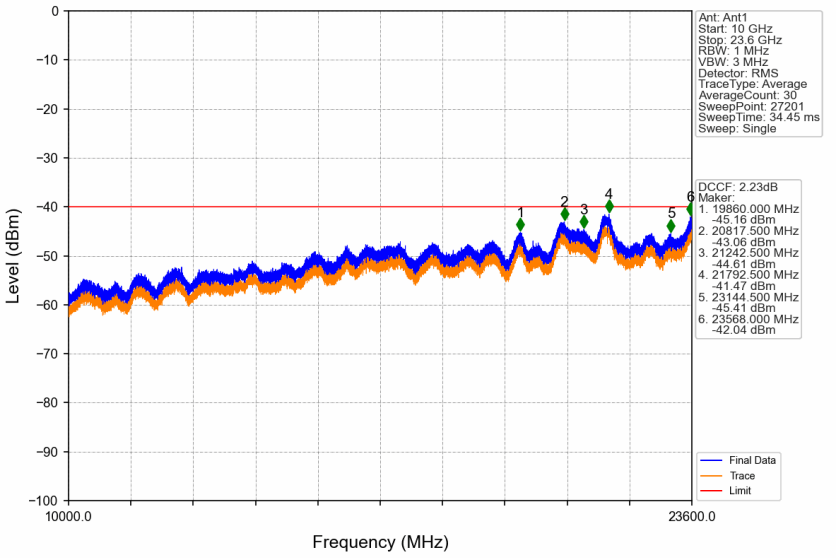

Band40b_5MHz_16QAM_MCH_2355MHz_RB_1_0_NTNV



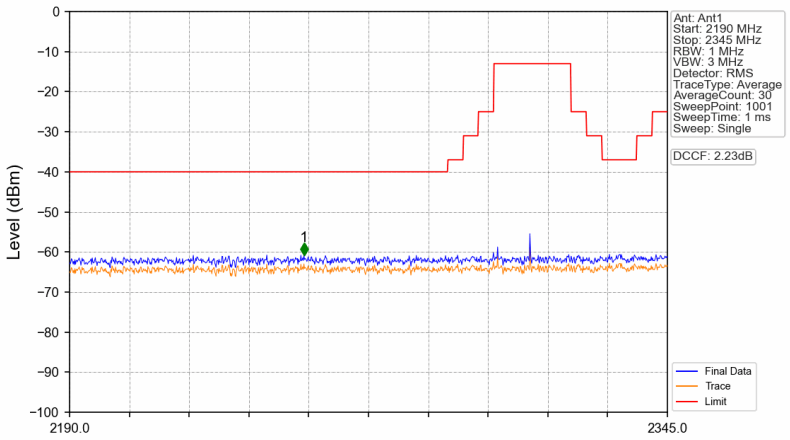
Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_1_0_NTNV




Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_1_0_NTNV

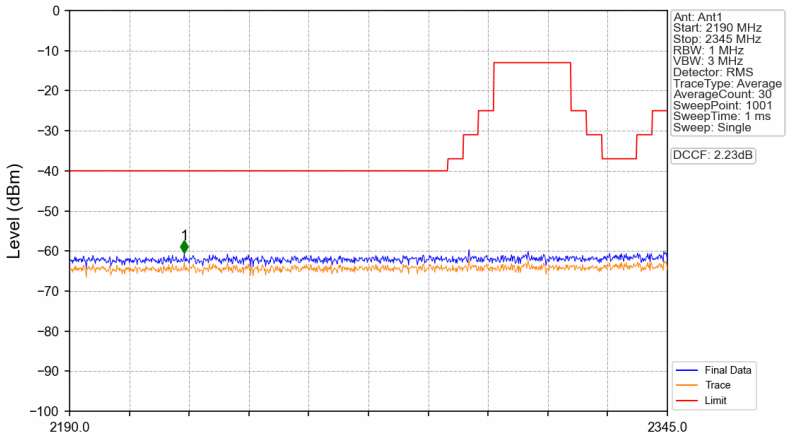


Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_1_24_NTNV



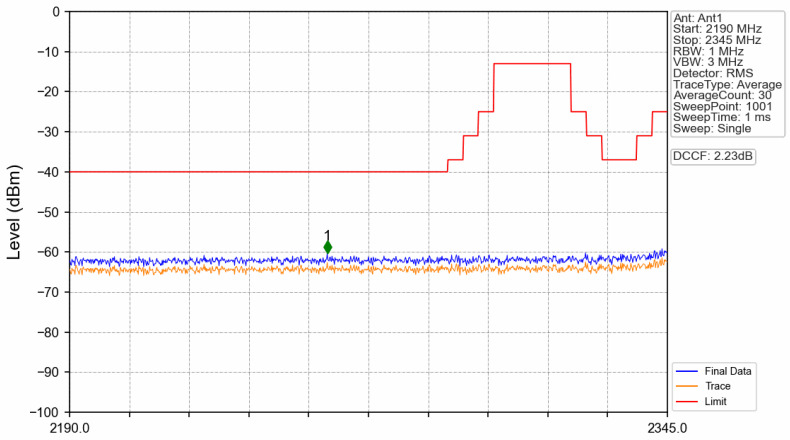

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2250.760 | -60.75 | -40 | Pass |

Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_25_0_NTNV



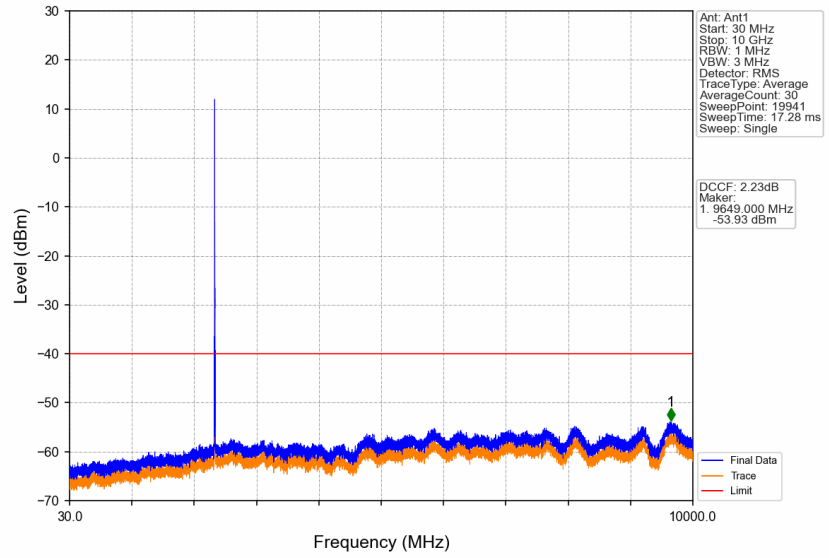

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2219.760 | -60.55 | -40 | Pass |

Band40b_5MHz_64QAM_LCH_2352.5MHz_RB_1_0_NTNV

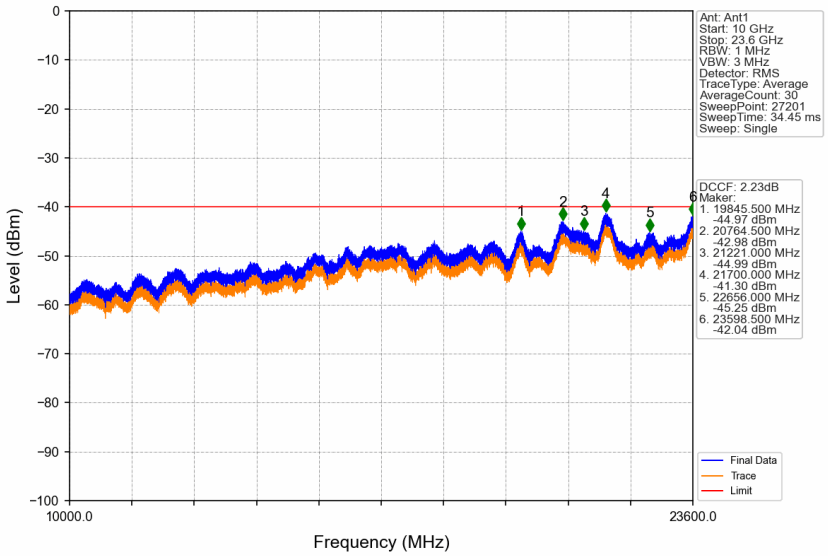



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2256.805 | -60.38 | -40 | Pass |

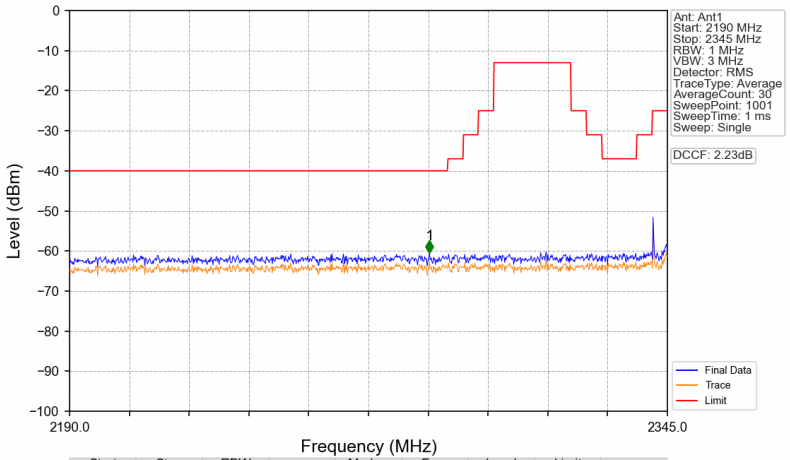
Band40b_5MHz_64QAM_LCH_2352.5MHz_RB_1_0_NTNV



Band40b_5MHz_64QAM_LCH_2352.5MHz_RB_1_0_NTNV

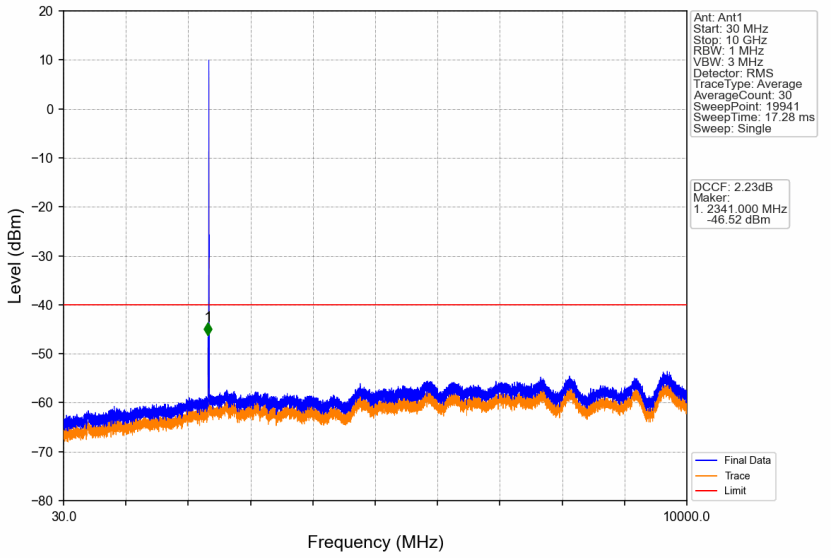



Band40b_5MHz_64QAM_LCH_2352.5MHz_RB_25_0_NTNV

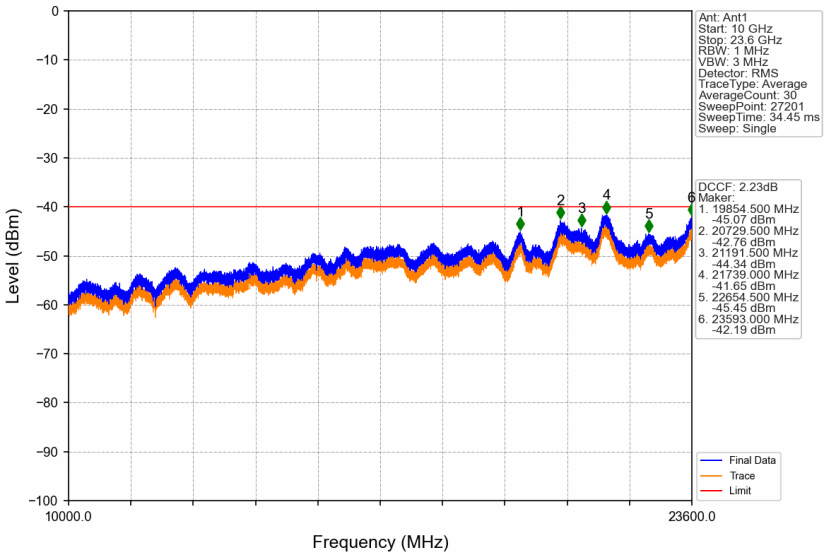



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2283.310 | -60.55 | -40 | Pass |

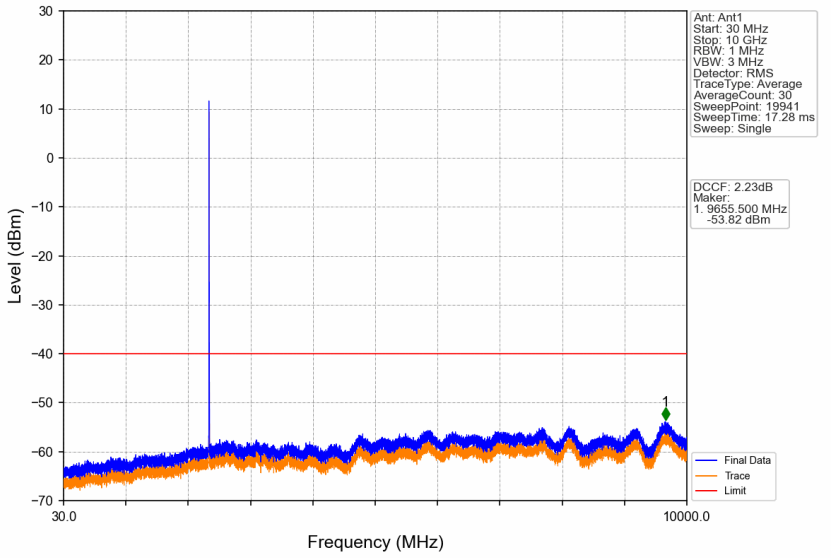
Band40b_5MHz_64QAM_MCH_2355MHz_RB_1_0_NTNV



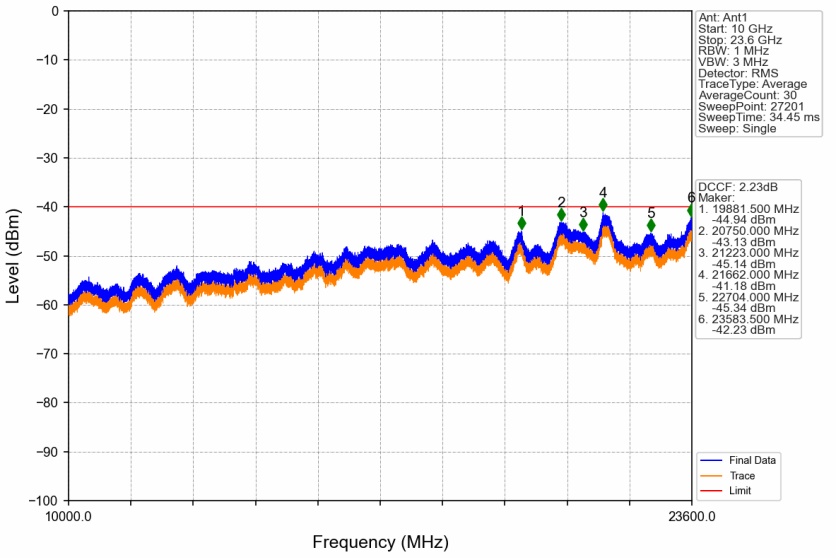

Band40b_5MHz_64QAM_MCH_2355MHz_RB_1_0_NTNV



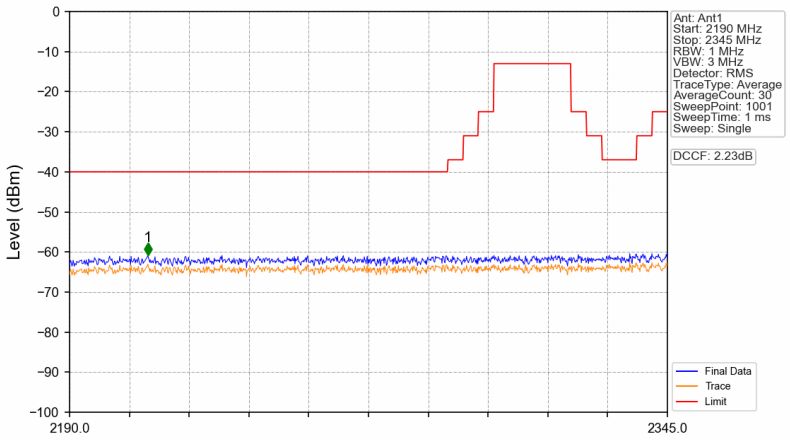
Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_1_0_NTNV




Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_1_0_NTNV

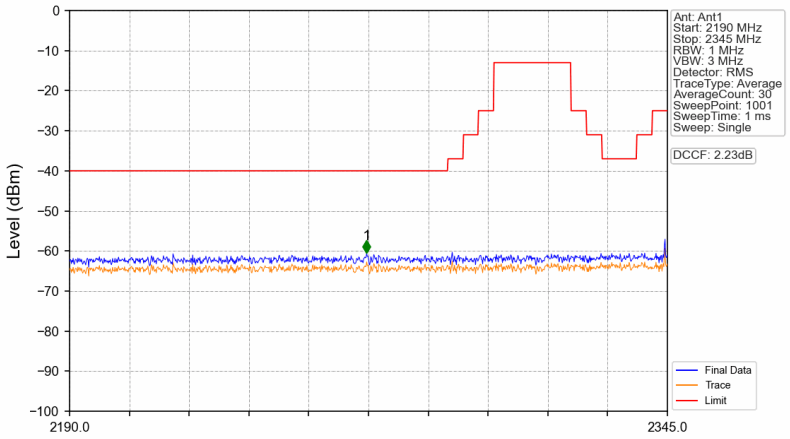


Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2210.305 | -60.78 | -40 | Pass |

Band40b_5MHz_64QAM_HCH_2357.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2267.035 | -60.50 | -40 | Pass |

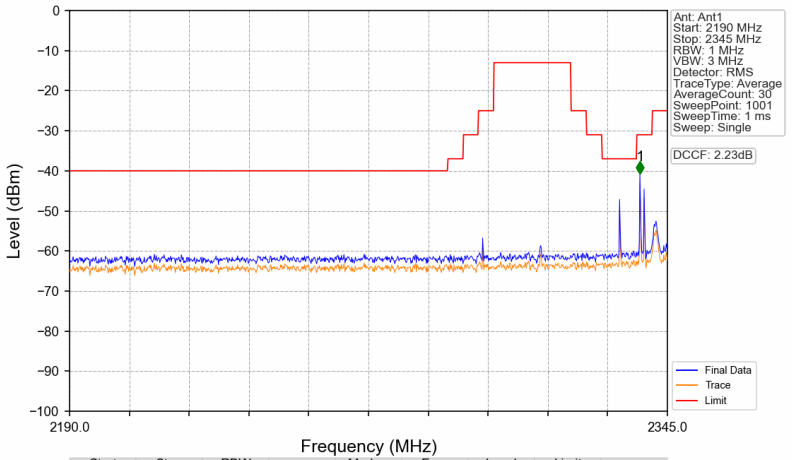
## 6.2 B40b_10MHz

### 6.2.1 Test Result

| Band: 40b / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2355 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2355 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 2355 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

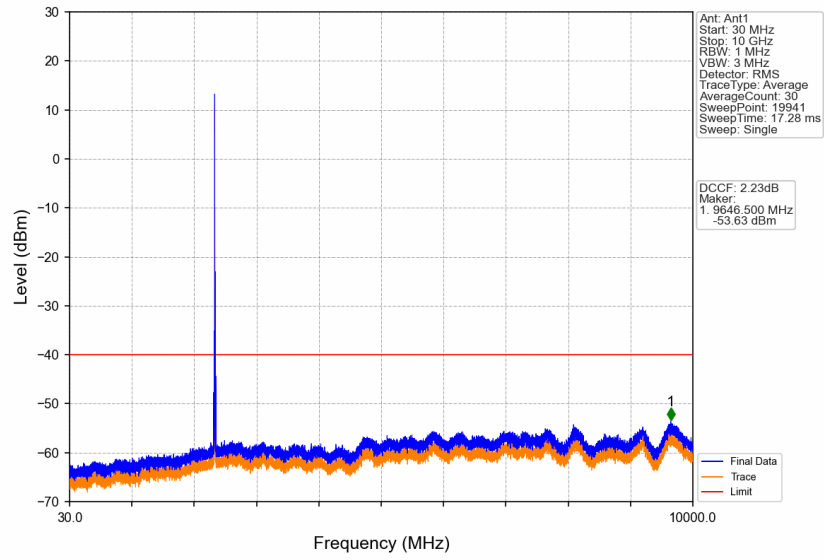
## 6.2.2 Test Graph

Band40b_10MHz_QPSK_MCH_2355MHz_RB_1_0_NTNV

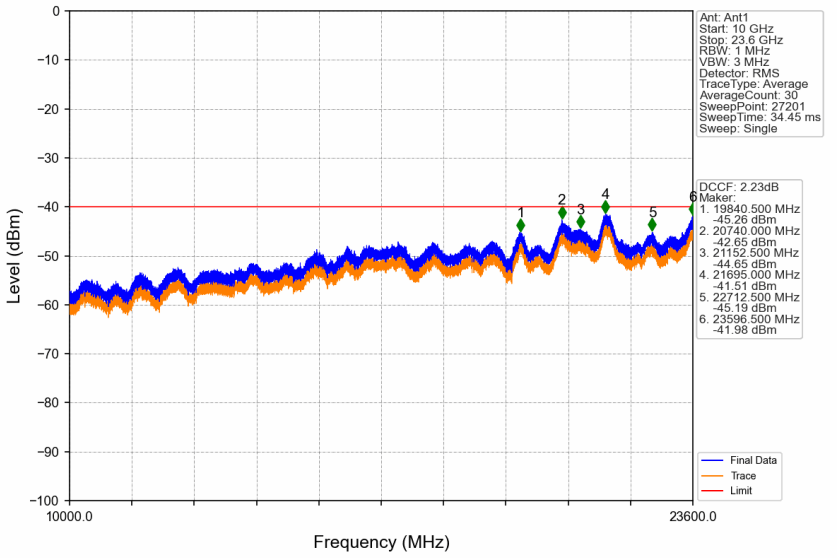



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2337.870 | -40.73 | -31 | Pass |

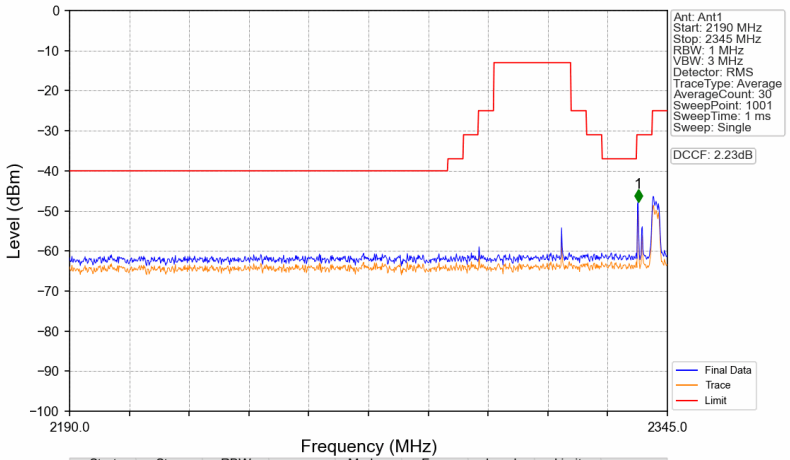
Band40b_10MHz_QPSK_MCH_2355MHz_RB_1_0_NTNV



Band40b_10MHz_QPSK_MCH_2355MHz_RB_1_0_NTNV

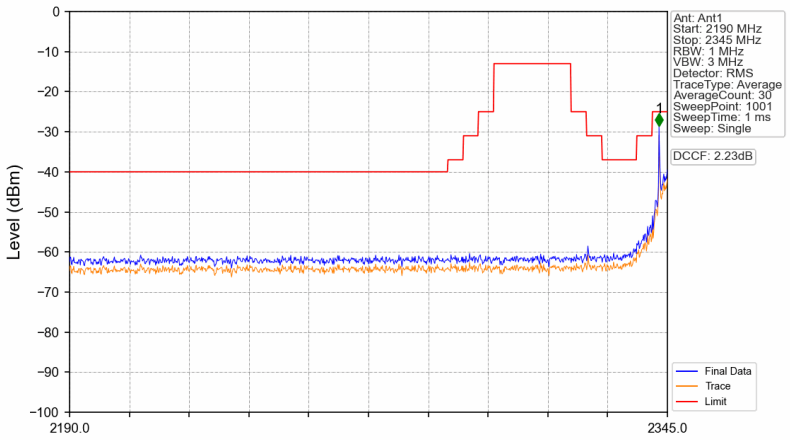



Band40b_10MHz_QPSK_MCH_2355MHz_RB_1_49_NTNV



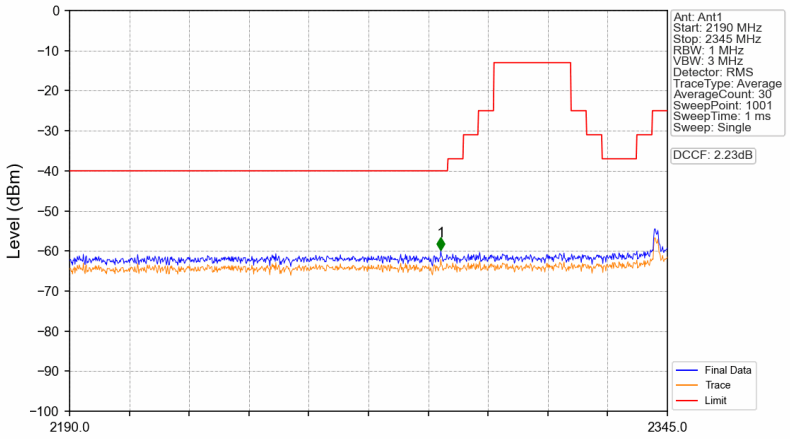

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2337.405 | -47.73 | -31 | Pass |

Band40b_10MHz_QPSK_MCH_2355MHz_RB_50_0_NTNV



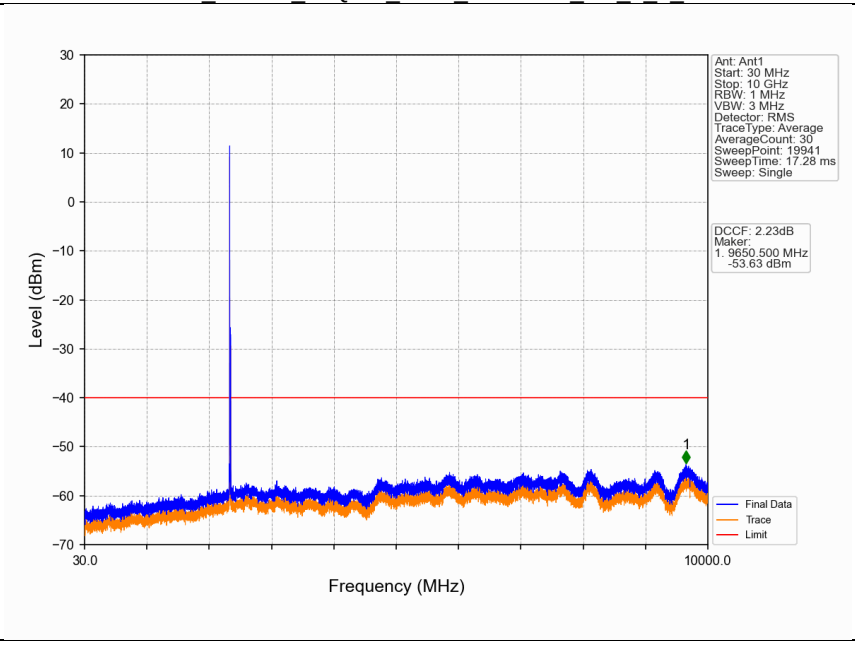

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2342.830 | -28.59 | -25 | Pass |

Band40b_10MHz_16QAM_MCH_2355MHz_RB_1_0_NTNV

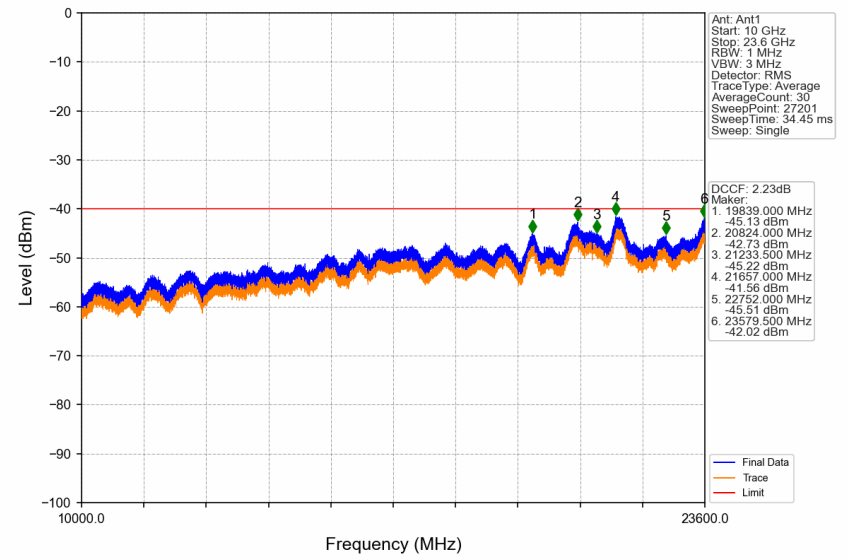



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2286.255 | -59.85 | -40 | Pass |

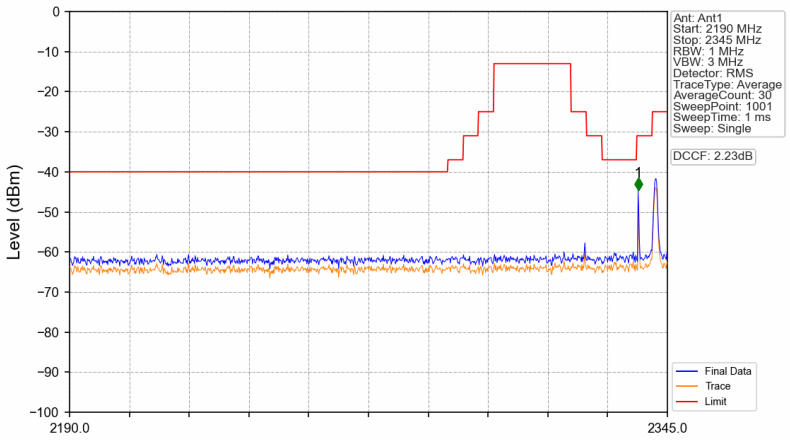
Band40b_10MHz_16QAM_MCH_2355MHz_RB_1_0_NTNV




Band40b_10MHz_16QAM_MCH_2355MHz_RB_1_0_NTNV

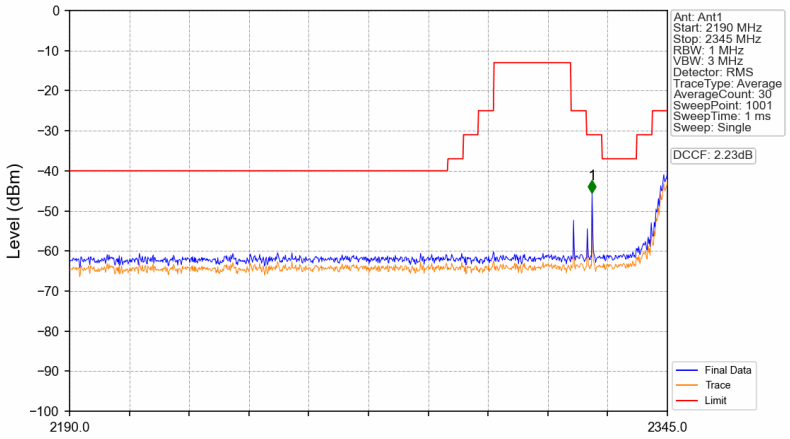


Band40b_10MHz_16QAM_MCH_2355MHz_RB_1_49_NTNV



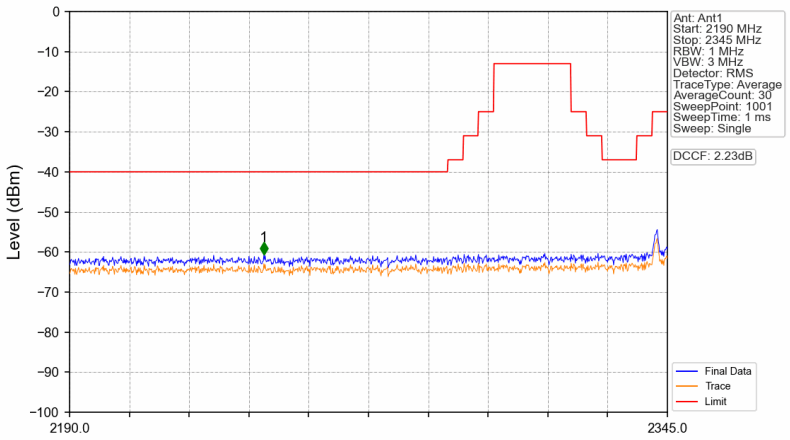

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2337.405 | -44.68 | -31 | Pass |

Band40b_10MHz_16QAM_MCH_2355MHz_RB_50_0_NTNV



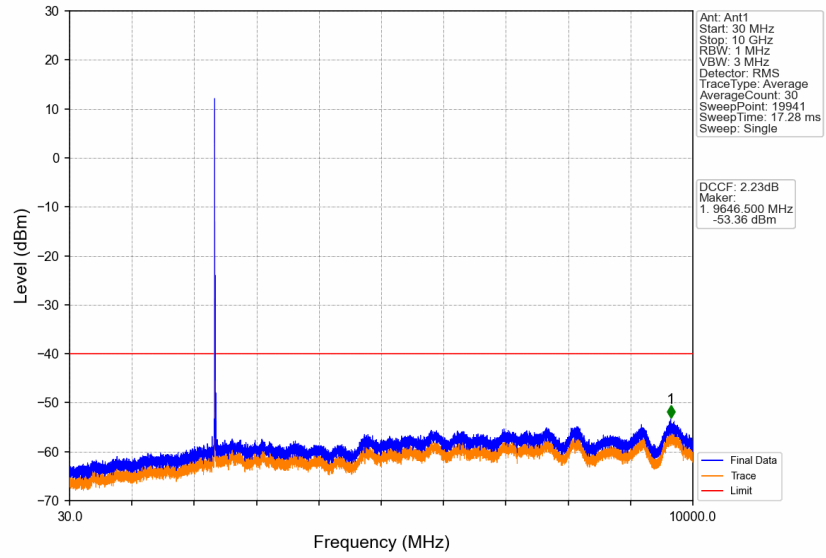

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2325.470 | -45.53 | -31 | Pass |

Band40b_10MHz_64QAM_MCH_2355MHz_RB_1_0_NTNV

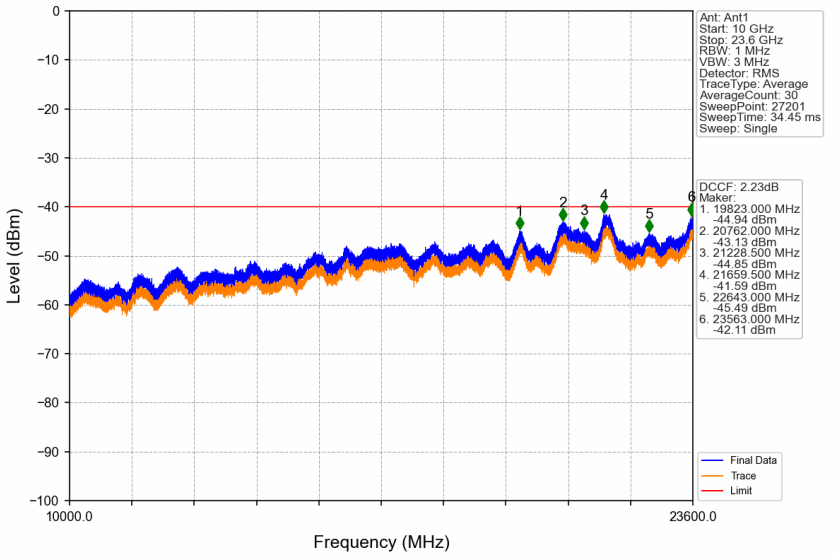



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2240.375 | -60.72 | -40 | Pass |

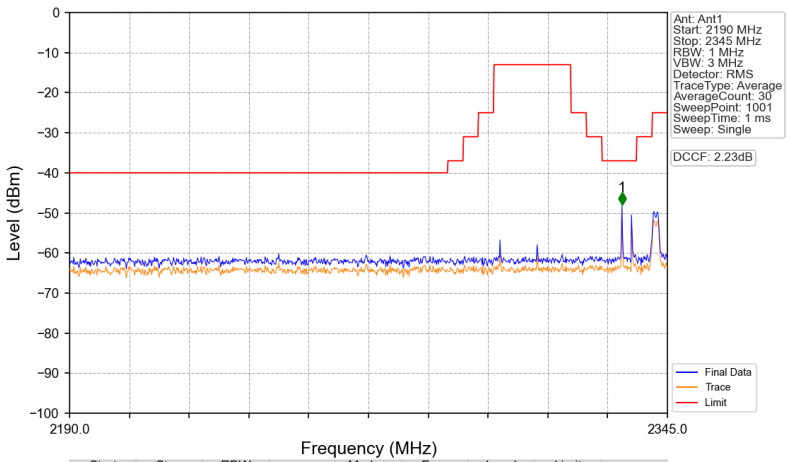
Band40b_10MHz_64QAM_MCH_2355MHz_RB_1_0_NTNV



Band40b_10MHz_64QAM_MCH_2355MHz_RB_1_0_NTNV

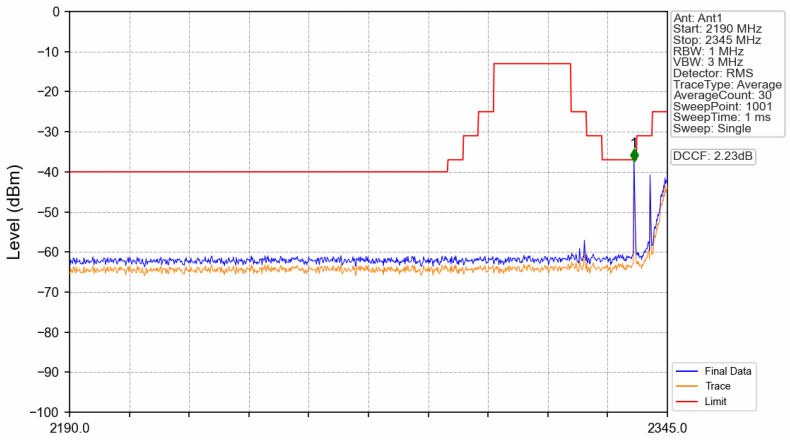



Band40b_10MHz_64QAM_MCH_2355MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2333.220 | -47.95 | -37 | Pass |

Band40b_10MHz_64QAM_MCH_2355MHz_RB_50_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 2190 | 2345 | 1 | / | 1 | 2336.320 | -37.33 | -37 | Pass |