

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B13\_5MHz\_ERP

### 1.1.1 Test Result

| Band: 13 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 779.5           | 1             | 0      | 24.69                 | -2.00      | 20.54     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.60                 | -2.00      | 20.45     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.51                 | -2.00      | 20.36     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.55                 | -2.00      | 19.40     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.62                 | -2.00      | 19.47     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.55                 | -2.00      | 19.40     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.61                 | -2.00      | 19.46     | <=34.77 | Pass    |
|                                   | 782             | 1             | 0      | 24.54                 | -2.00      | 20.39     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.60                 | -2.00      | 20.45     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.60                 | -2.00      | 20.45     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.49                 | -2.00      | 19.34     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.54                 | -2.00      | 19.39     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.61                 | -2.00      | 19.46     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.48                 | -2.00      | 19.33     | <=34.77 | Pass    |
|                                   | 784.5           | 1             | 0      | 24.57                 | -2.00      | 20.42     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.68                 | -2.00      | 20.53     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.63                 | -2.00      | 20.48     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.56                 | -2.00      | 19.41     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.67                 | -2.00      | 19.52     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.66                 | -2.00      | 19.51     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.62                 | -2.00      | 19.47     | <=34.77 | Pass    |
| 16QAM                             | 779.5           | 1             | 0      | 23.95                 | -2.00      | 19.80     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.80                 | -2.00      | 19.65     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.70                 | -2.00      | 19.55     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 22.62                 | -2.00      | 18.47     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 22.68                 | -2.00      | 18.53     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 22.45                 | -2.00      | 18.30     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 22.63                 | -2.00      | 18.48     | <=34.77 | Pass    |
|                                   | 782             | 1             | 0      | 23.73                 | -2.00      | 19.58     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.74                 | -2.00      | 19.59     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.79                 | -2.00      | 19.64     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 22.61                 | -2.00      | 18.46     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 22.52                 | -2.00      | 18.37     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 22.59                 | -2.00      | 18.44     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 22.57                 | -2.00      | 18.42     | <=34.77 | Pass    |
|                                   | 784.5           | 1             | 0      | 23.62                 | -2.00      | 19.47     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.82                 | -2.00      | 19.67     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.76                 | -2.00      | 19.61     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 22.61                 | -2.00      | 18.46     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 22.61                 | -2.00      | 18.46     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 22.59                 | -2.00      | 18.44     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 22.63                 | -2.00      | 18.48     | <=34.77 | Pass    |
| 64QAM                             | 779.5           | 1             | 0      | 22.76                 | -2.00      | 18.61     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 22.56                 | -2.00      | 18.41     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 22.48                 | -2.00      | 18.33     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 21.57                 | -2.00      | 17.42     | <=34.77 | Pass    |

|                                              |       |    |    |       |       |       |         |      |
|----------------------------------------------|-------|----|----|-------|-------|-------|---------|------|
|                                              |       |    | 6  | 21.66 | -2.00 | 17.51 | <=34.77 | Pass |
|                                              |       |    | 13 | 21.57 | -2.00 | 17.42 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 21.65 | -2.00 | 17.50 | <=34.77 | Pass |
|                                              | 782   | 1  | 0  | 22.74 | -2.00 | 18.59 | <=34.77 | Pass |
|                                              |       |    | 13 | 22.76 | -2.00 | 18.61 | <=34.77 | Pass |
|                                              |       |    | 24 | 22.73 | -2.00 | 18.58 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 21.52 | -2.00 | 17.37 | <=34.77 | Pass |
|                                              |       |    | 6  | 21.56 | -2.00 | 17.41 | <=34.77 | Pass |
|                                              |       |    | 13 | 21.64 | -2.00 | 17.49 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 21.51 | -2.00 | 17.36 | <=34.77 | Pass |
|                                              | 784.5 | 1  | 0  | 22.63 | -2.00 | 18.48 | <=34.77 | Pass |
|                                              |       |    | 13 | 22.80 | -2.00 | 18.65 | <=34.77 | Pass |
|                                              |       |    | 24 | 22.80 | -2.00 | 18.65 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 21.55 | -2.00 | 17.40 | <=34.77 | Pass |
|                                              |       |    | 6  | 21.65 | -2.00 | 17.50 | <=34.77 | Pass |
|                                              |       |    | 13 | 21.68 | -2.00 | 17.53 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 21.59 | -2.00 | 17.44 | <=34.77 | Pass |
| 256QAM                                       | 779.5 | 1  | 0  | 19.59 | -2.00 | 15.44 | <=34.77 | Pass |
|                                              |       |    | 13 | 19.71 | -2.00 | 15.56 | <=34.77 | Pass |
|                                              |       |    | 24 | 19.54 | -2.00 | 15.39 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 19.56 | -2.00 | 15.41 | <=34.77 | Pass |
|                                              |       |    | 6  | 19.65 | -2.00 | 15.50 | <=34.77 | Pass |
|                                              |       |    | 13 | 19.54 | -2.00 | 15.39 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 19.59 | -2.00 | 15.44 | <=34.77 | Pass |
|                                              | 782   | 1  | 0  | 19.63 | -2.00 | 15.48 | <=34.77 | Pass |
|                                              |       |    | 13 | 19.65 | -2.00 | 15.50 | <=34.77 | Pass |
|                                              |       |    | 24 | 19.65 | -2.00 | 15.50 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 19.48 | -2.00 | 15.33 | <=34.77 | Pass |
|                                              |       |    | 6  | 19.51 | -2.00 | 15.36 | <=34.77 | Pass |
|                                              |       |    | 13 | 19.56 | -2.00 | 15.41 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 19.53 | -2.00 | 15.38 | <=34.77 | Pass |
|                                              | 784.5 | 1  | 0  | 19.58 | -2.00 | 15.43 | <=34.77 | Pass |
|                                              |       |    | 13 | 19.78 | -2.00 | 15.63 | <=34.77 | Pass |
|                                              |       |    | 24 | 19.67 | -2.00 | 15.52 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 19.58 | -2.00 | 15.43 | <=34.77 | Pass |
|                                              |       |    | 6  | 19.67 | -2.00 | 15.52 | <=34.77 | Pass |
|                                              |       |    | 13 | 19.70 | -2.00 | 15.55 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 19.62 | -2.00 | 15.47 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |    |    |       |       |       |         |      |

## 1.2 B13\_10MHz\_ERP

### 1.2.1 Test Result

| Band: 13 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 782             | 1             | 0      | 24.64                 | -2.00      | 20.49     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.56                 | -2.00      | 20.41     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 24.69                 | -2.00      | 20.54     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.59                 | -2.00      | 19.44     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.55                 | -2.00      | 19.40     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.65                 | -2.00      | 19.50     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.58                 | -2.00      | 19.43     | <=34.77 | Pass    |
| 16QAM                              | 782             | 1             | 0      | 23.74                 | -2.00      | 19.59     | <=34.77 | Pass    |

|                                              |       |       |     |       |       |       |         |       |
|----------------------------------------------|-------|-------|-----|-------|-------|-------|---------|-------|
|                                              |       |       | 25  | 23.66 | -2.00 | 19.51 | <=34.77 | Pass  |
|                                              |       |       | 49  | 23.86 | -2.00 | 19.71 | <=34.77 | Pass  |
|                                              |       | 25    | 0   | 22.62 | -2.00 | 18.47 | <=34.77 | Pass  |
|                                              |       |       | 13  | 22.57 | -2.00 | 18.42 | <=34.77 | Pass  |
|                                              |       |       | 25  | 22.67 | -2.00 | 18.52 | <=34.77 | Pass  |
|                                              |       | 50    | 0   | 22.58 | -2.00 | 18.43 | <=34.77 | Pass  |
|                                              |       | 64QAM | 782 | 1     | 0     | 22.91 | -2.00   | 18.76 |
| 25                                           | 22.75 |       |     |       | -2.00 | 18.60 | <=34.77 | Pass  |
| 49                                           | 22.93 |       |     |       | -2.00 | 18.78 | <=34.77 | Pass  |
| 25                                           | 0     |       |     | 21.58 | -2.00 | 17.43 | <=34.77 | Pass  |
|                                              | 13    |       |     | 21.59 | -2.00 | 17.44 | <=34.77 | Pass  |
|                                              | 25    |       |     | 21.69 | -2.00 | 17.54 | <=34.77 | Pass  |
| 50                                           | 0     |       |     | 21.59 | -2.00 | 17.44 | <=34.77 | Pass  |
| 256QAM                                       | 782   | 1     | 0   | 19.59 | -2.00 | 15.44 | <=34.77 | Pass  |
|                                              |       |       | 25  | 19.74 | -2.00 | 15.59 | <=34.77 | Pass  |
|                                              |       |       | 49  | 19.88 | -2.00 | 15.73 | <=34.77 | Pass  |
|                                              |       | 25    | 0   | 19.59 | -2.00 | 15.44 | <=34.77 | Pass  |
|                                              |       |       | 13  | 19.60 | -2.00 | 15.45 | <=34.77 | Pass  |
|                                              |       |       | 25  | 19.64 | -2.00 | 15.49 | <=34.77 | Pass  |
|                                              |       | 50    | 0   | 19.56 | -2.00 | 15.41 | <=34.77 | Pass  |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |       |     |       |       |       |         |       |

## 2. Frequency Stability

### 2.1 B13\_10MHz

#### 2.1.1 Test Result

| Band: 13 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 782             | 50            | 0      | 20         | 3.65          | 1.645            | 0.0021                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -0.172           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | 1.459            | 0.0019                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | 2.174            | 0.0028                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | 0.572            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | 1.202            | 0.0015                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | 1.187            | 0.0015                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | 2.146            | 0.0027                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | 0.415            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | 1.016            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | 2.303            | 0.0029                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 782             | 50            | 0      | 20         | 3.65          | 0.944            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | 2.303            | 0.0029                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | 0.987            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | 0.529            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | 1.888            | 0.0024                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | 2.847            | 0.0036                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | 0.730            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | 0.715            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | 0.901            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | 0.544            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | 1.888            | 0.0024                | -2.5 to 2.5 | Pass    |
| 64QAM                       | 782             | 50            | 0      | 20         | 3.65          | -0.329           | -0.0004               | -2.5 to 2.5 | Pass    |

|        |     |    |   |     |      |        |         |             |      |
|--------|-----|----|---|-----|------|--------|---------|-------------|------|
|        |     |    |   |     | 3.87 | 0.916  | 0.0012  | -2.5 to 2.5 | Pass |
|        |     |    |   |     | 4.45 | 2.146  | 0.0027  | -2.5 to 2.5 | Pass |
|        |     |    |   | -30 | 3.87 | 1.445  | 0.0018  | -2.5 to 2.5 | Pass |
|        |     |    |   | -20 | 3.87 | 0.086  | 0.0001  | -2.5 to 2.5 | Pass |
|        |     |    |   | -10 | 3.87 | -0.243 | -0.0003 | -2.5 to 2.5 | Pass |
|        |     |    |   | 0   | 3.87 | 1.187  | 0.0015  | -2.5 to 2.5 | Pass |
|        |     |    |   | 10  | 3.87 | 1.388  | 0.0018  | -2.5 to 2.5 | Pass |
|        |     |    |   | 30  | 3.87 | 0.844  | 0.0011  | -2.5 to 2.5 | Pass |
|        |     |    |   | 40  | 3.87 | 1.416  | 0.0018  | -2.5 to 2.5 | Pass |
|        |     |    |   | 50  | 3.87 | -0.343 | -0.0004 | -2.5 to 2.5 | Pass |
| 256QAM | 782 | 50 | 0 | 20  | 3.65 | 1.774  | 0.0023  | -2.5 to 2.5 | Pass |
|        |     |    |   |     | 3.87 | 0.744  | 0.0010  | -2.5 to 2.5 | Pass |
|        |     |    |   |     | 4.45 | 2.017  | 0.0026  | -2.5 to 2.5 | Pass |
|        |     |    |   | -30 | 3.87 | 1.717  | 0.0022  | -2.5 to 2.5 | Pass |
|        |     |    |   | -20 | 3.87 | 0.572  | 0.0007  | -2.5 to 2.5 | Pass |
|        |     |    |   | -10 | 3.87 | -0.486 | -0.0006 | -2.5 to 2.5 | Pass |
|        |     |    |   | 0   | 3.87 | 1.159  | 0.0015  | -2.5 to 2.5 | Pass |
|        |     |    |   | 10  | 3.87 | -0.501 | -0.0006 | -2.5 to 2.5 | Pass |
|        |     |    |   | 30  | 3.87 | -0.672 | -0.0009 | -2.5 to 2.5 | Pass |
|        |     |    |   | 40  | 3.87 | 1.273  | 0.0016  | -2.5 to 2.5 | Pass |
|        |     |    |   | 50  | 3.87 | -0.143 | -0.0002 | -2.5 to 2.5 | Pass |

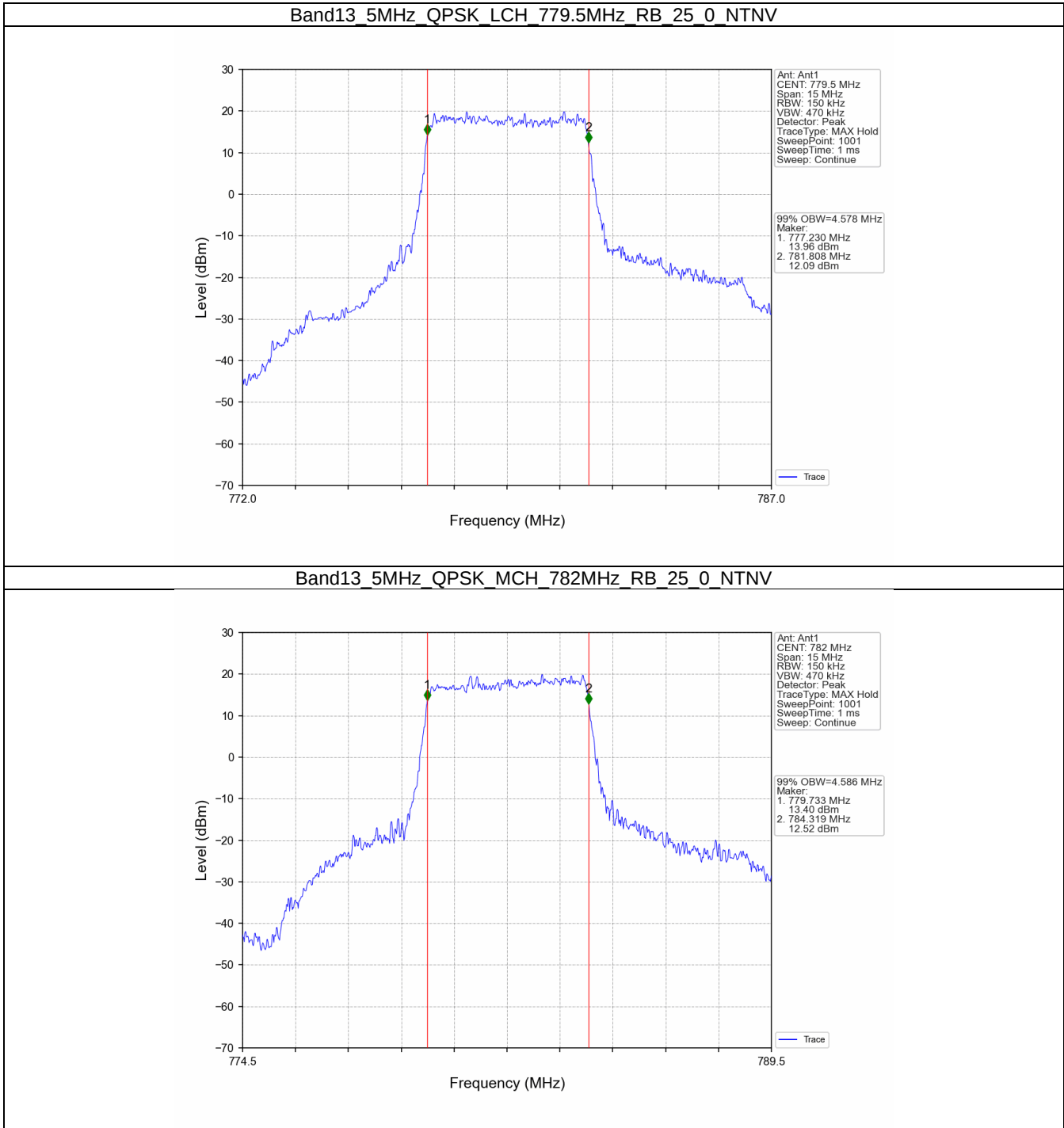
### 3. 99% & 26dB Bandwidth

#### 3.1 Band13\_OBW

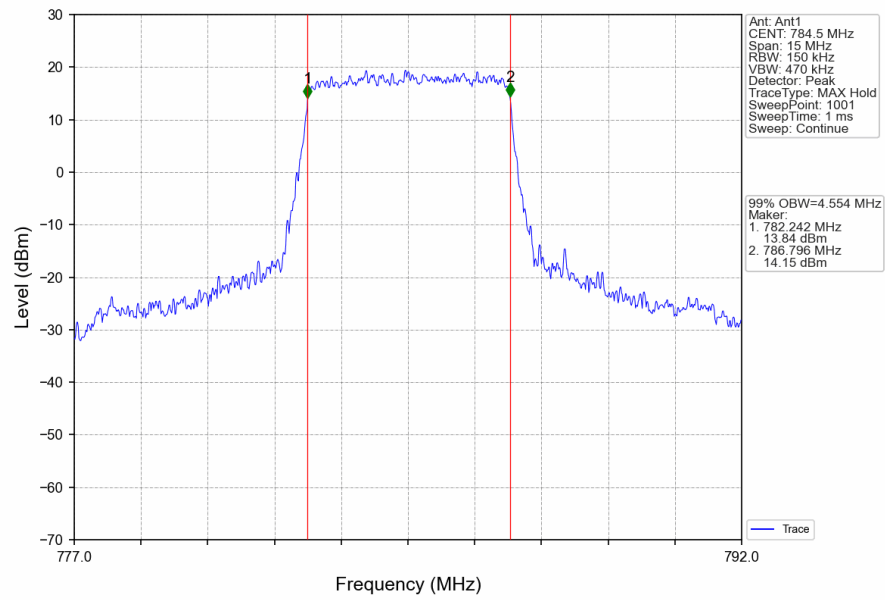
##### 3.1.1 Test Result

| Band: 13 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 779.5           | 25            | 0      | 4.578                        | /     | Pass    |
|                 |            | 782             | 25            | 0      | 4.586                        | /     | Pass    |
|                 |            | 784.5           | 25            | 0      | 4.554                        | /     | Pass    |
|                 | 16QAM      | 779.5           | 25            | 0      | 4.558                        | /     | Pass    |
|                 |            | 782             | 25            | 0      | 4.582                        | /     | Pass    |
|                 |            | 784.5           | 25            | 0      | 4.544                        | /     | Pass    |
|                 | 64QAM      | 779.5           | 25            | 0      | 4.572                        | /     | Pass    |
|                 |            | 782             | 25            | 0      | 4.576                        | /     | Pass    |
|                 |            | 784.5           | 25            | 0      | 4.551                        | /     | Pass    |
|                 | 256QAM     | 779.5           | 25            | 0      | 4.564                        | /     | Pass    |
|                 |            | 782             | 25            | 0      | 4.583                        | /     | Pass    |
|                 |            | 784.5           | 25            | 0      | 4.560                        | /     | Pass    |
| 10              | QPSK       | 782             | 50            | 0      | 9.045                        | /     | Pass    |
|                 | 16QAM      | 782             | 50            | 0      | 9.106                        | /     | Pass    |
|                 | 64QAM      | 782             | 50            | 0      | 9.080                        | /     | Pass    |
|                 | 256QAM     | 782             | 50            | 0      | 9.084                        | /     | Pass    |

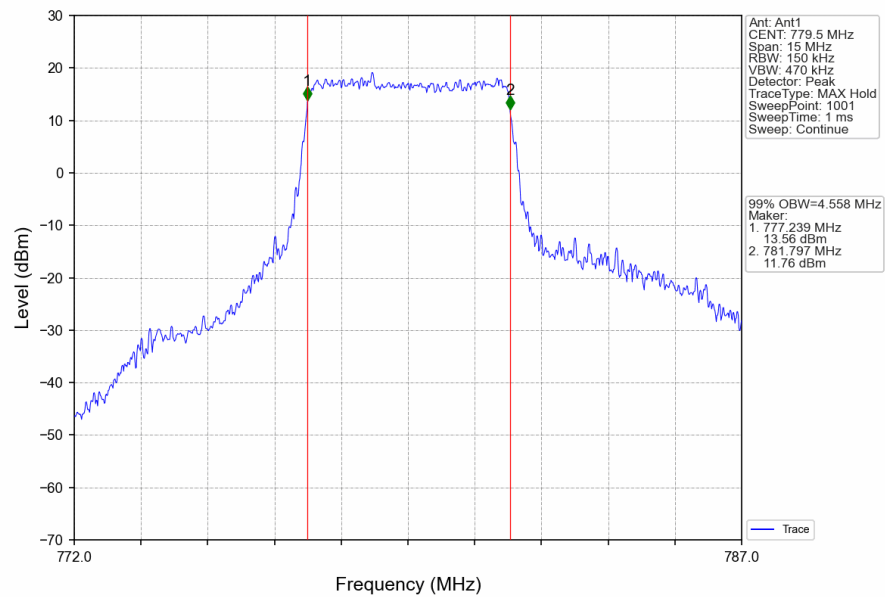
3.1.2 Test Graph



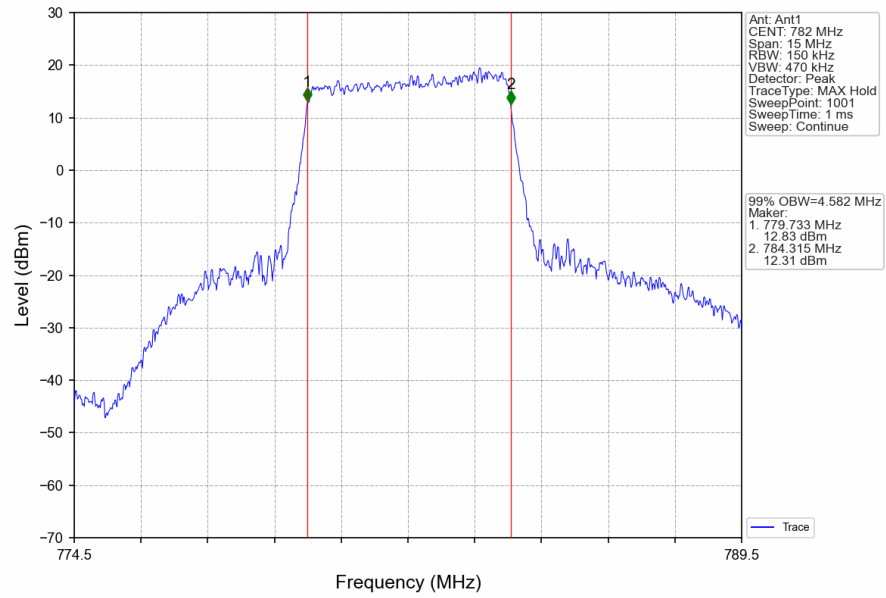
Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



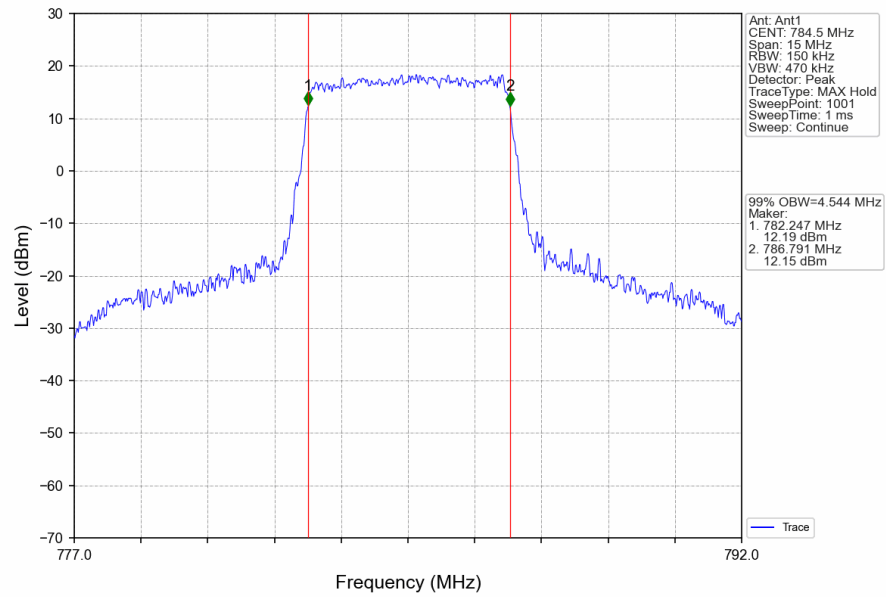
Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



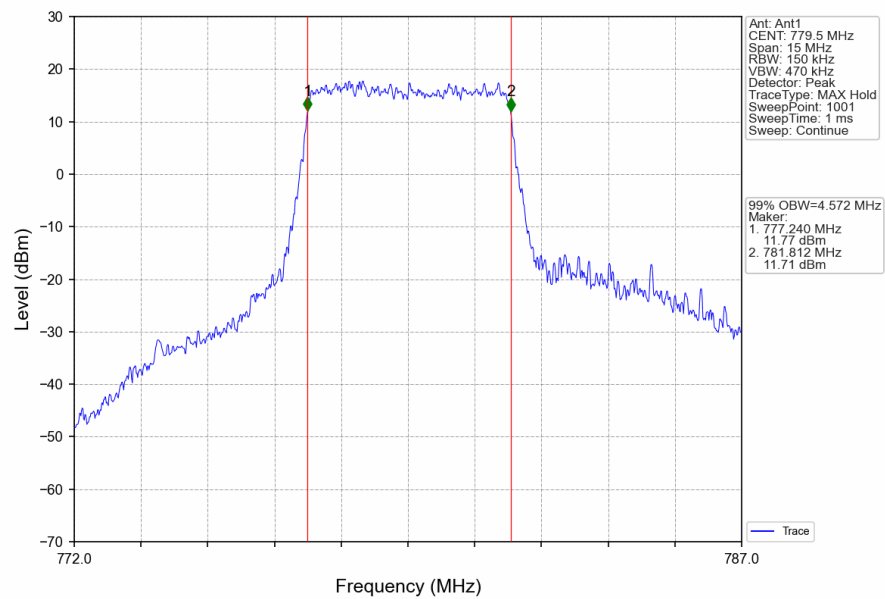
Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



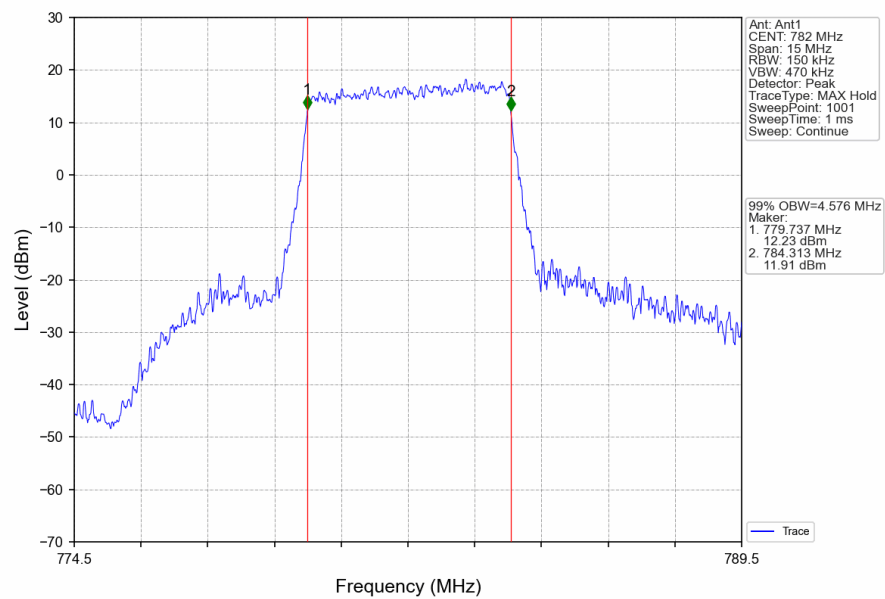
Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



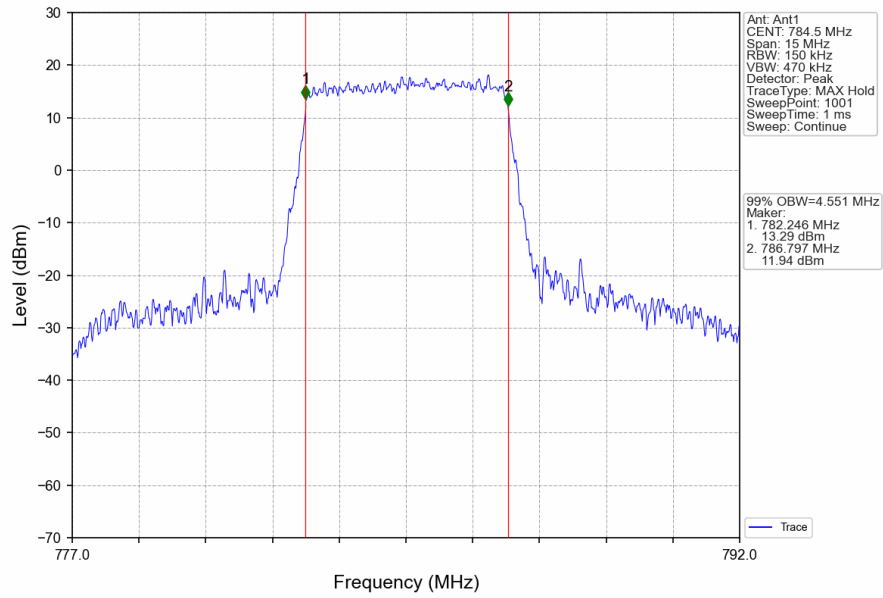
Band13 5MHz 64QAM LCH 779.5MHz RB 25 0 NTNV



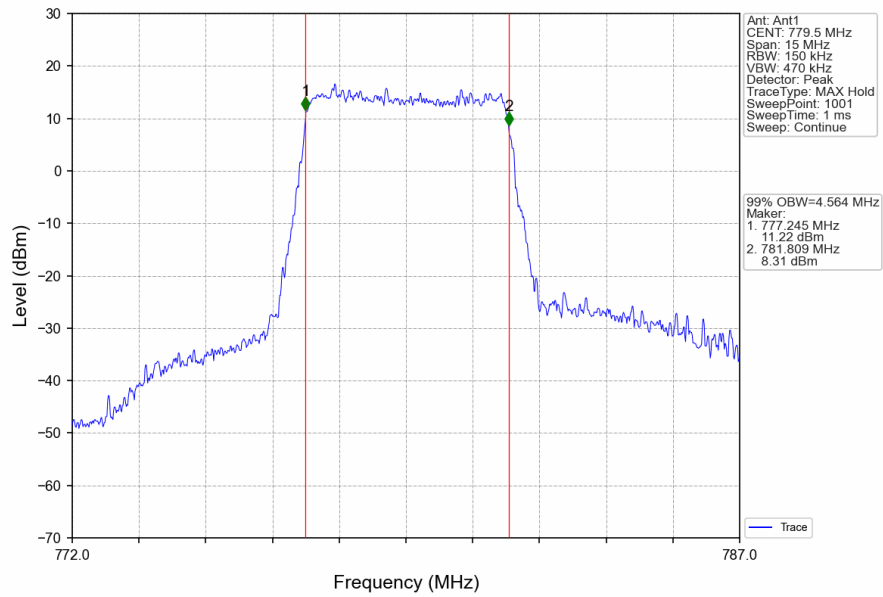
Band13 5MHz 64QAM MCH 782MHz RB 25 0 NTNV



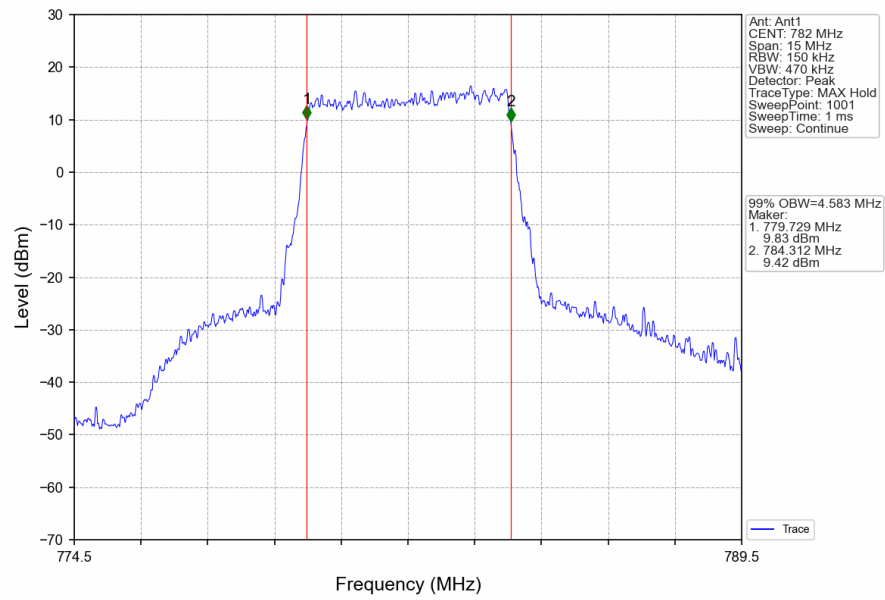
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTNV



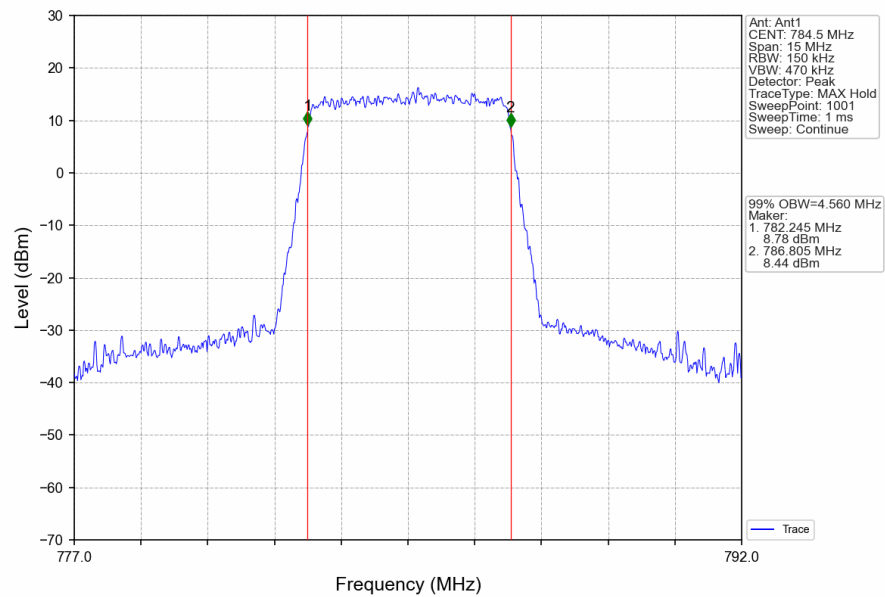
Band13 5MHz 256QAM LCH 779.5MHz RB 25 0 NTNV



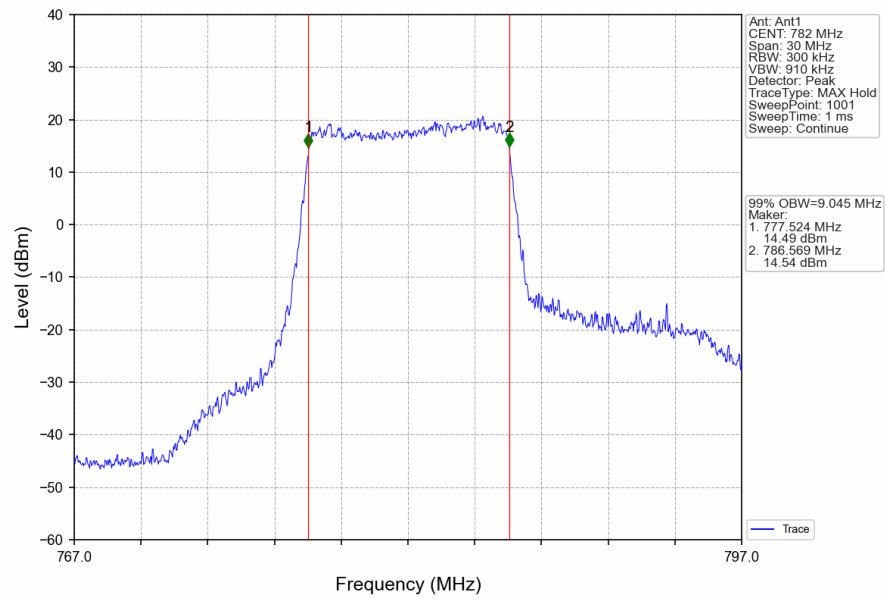
Band13 5MHz 256QAM MCH 782MHz RB 25 0 NTNV



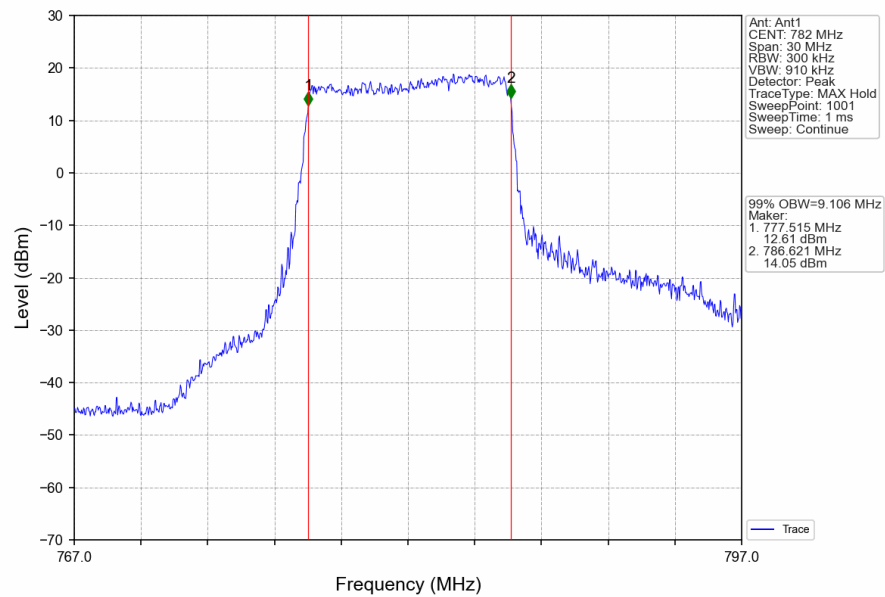
Band13 5MHz 256QAM HCH 784.5MHz RB 25 0 NTNV



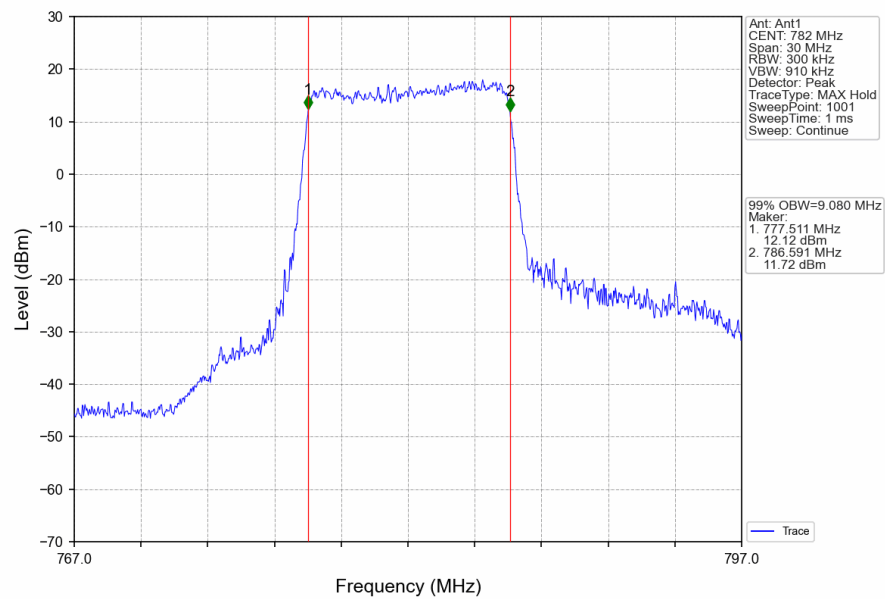
# Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_50\_0\_NTNV



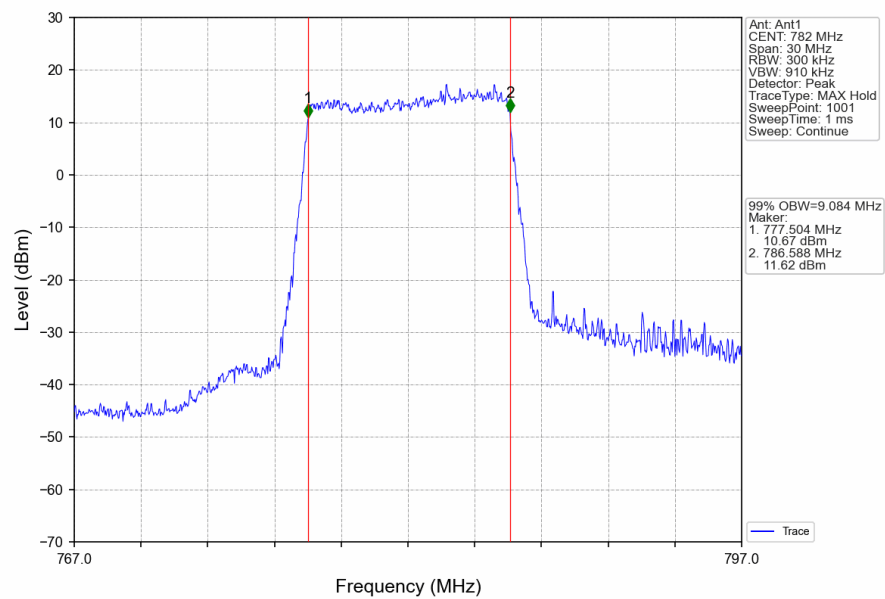
# Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



Band13\_10MHz\_64QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



Band13\_10MHz\_256QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV

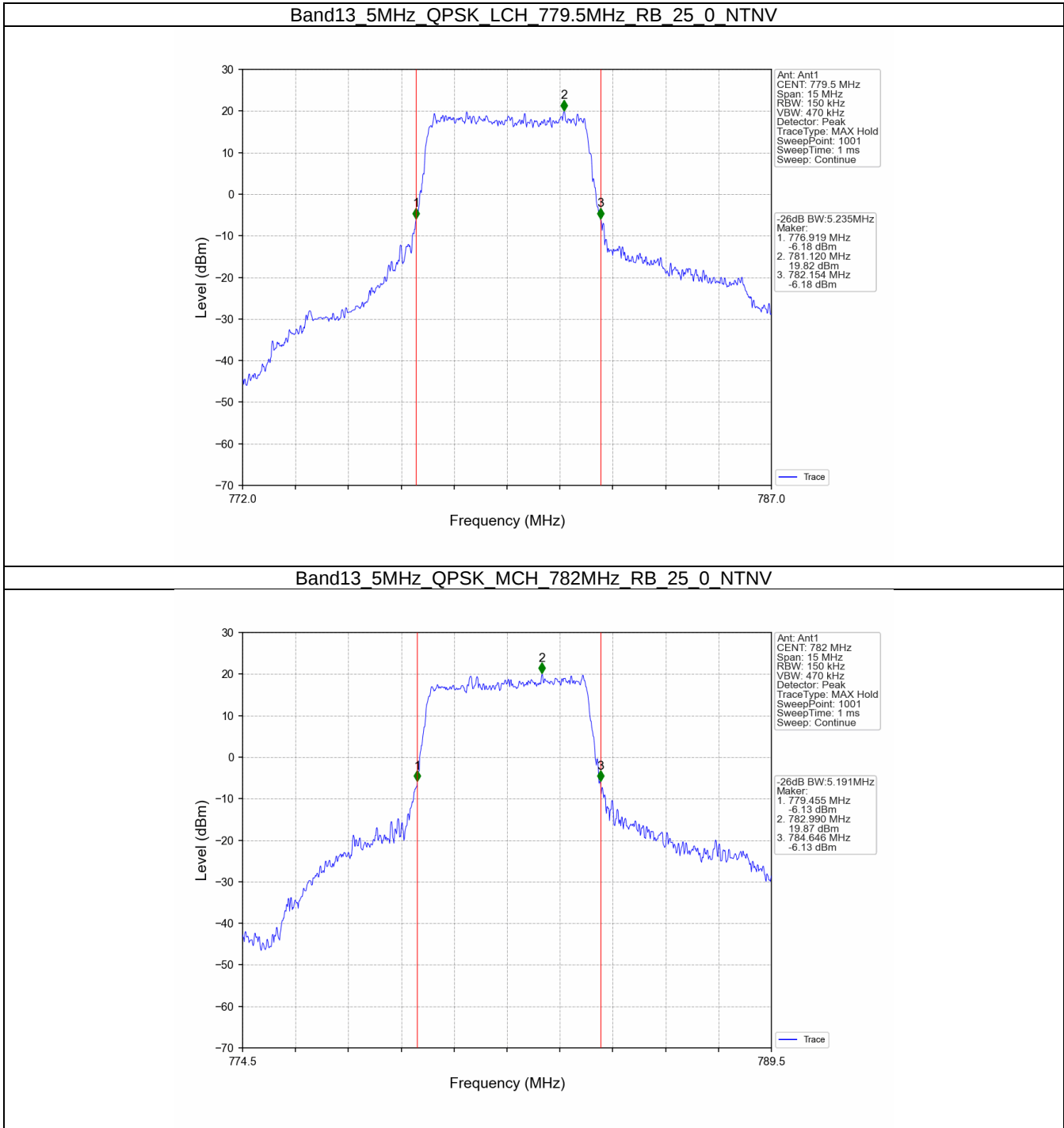


## 3.2 Band13\_XDB

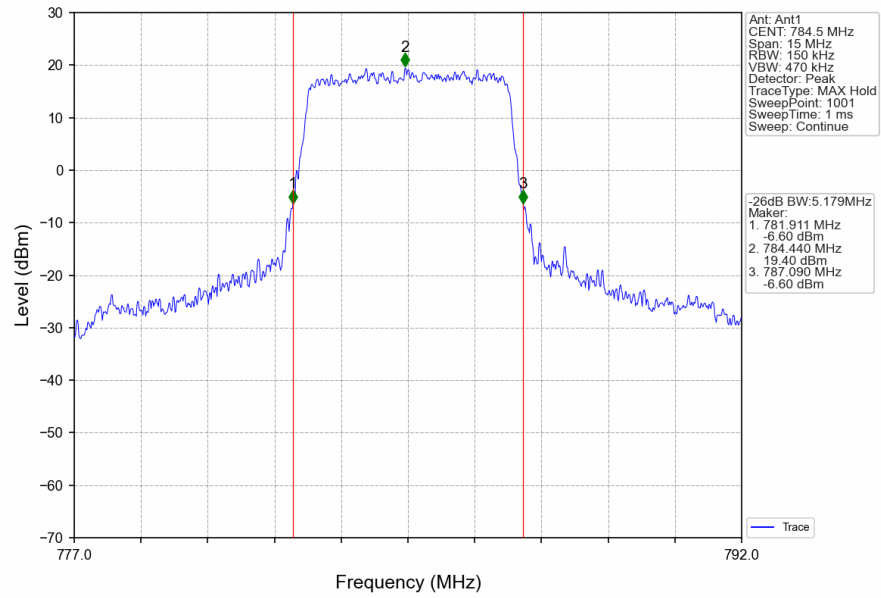
### 3.2.1 Test Result

| Band: 13 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 779.5           | 25            | 0      | 5.235                | /     | Pass    |
|                 |            | 782             | 25            | 0      | 5.191                | /     | Pass    |
|                 |            | 784.5           | 25            | 0      | 5.179                | /     | Pass    |
|                 | 16QAM      | 779.5           | 25            | 0      | 5.161                | /     | Pass    |
|                 |            | 782             | 25            | 0      | 5.244                | /     | Pass    |
|                 |            | 784.5           | 25            | 0      | 5.232                | /     | Pass    |
|                 | 64QAM      | 779.5           | 25            | 0      | 5.217                | /     | Pass    |
|                 |            | 782             | 25            | 0      | 5.213                | /     | Pass    |
|                 |            | 784.5           | 25            | 0      | 5.277                | /     | Pass    |
|                 | 256QAM     | 779.5           | 25            | 0      | 5.201                | /     | Pass    |
|                 |            | 782             | 25            | 0      | 5.235                | /     | Pass    |
|                 |            | 784.5           | 25            | 0      | 5.178                | /     | Pass    |
| 10              | QPSK       | 782             | 50            | 0      | 10.162               | /     | Pass    |
|                 | 16QAM      | 782             | 50            | 0      | 10.186               | /     | Pass    |
|                 | 64QAM      | 782             | 50            | 0      | 10.034               | /     | Pass    |
|                 | 256QAM     | 782             | 50            | 0      | 10.044               | /     | Pass    |

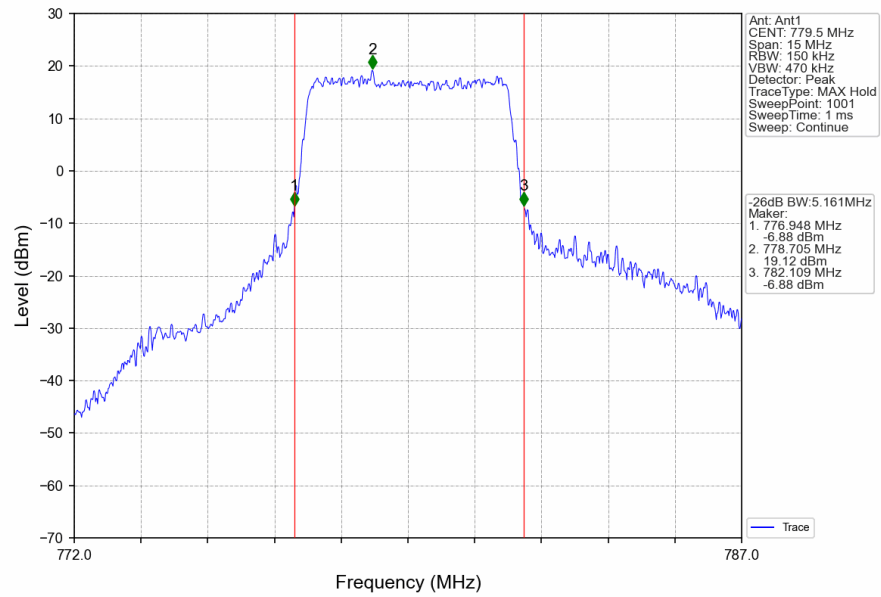
3.2.2 Test Graph



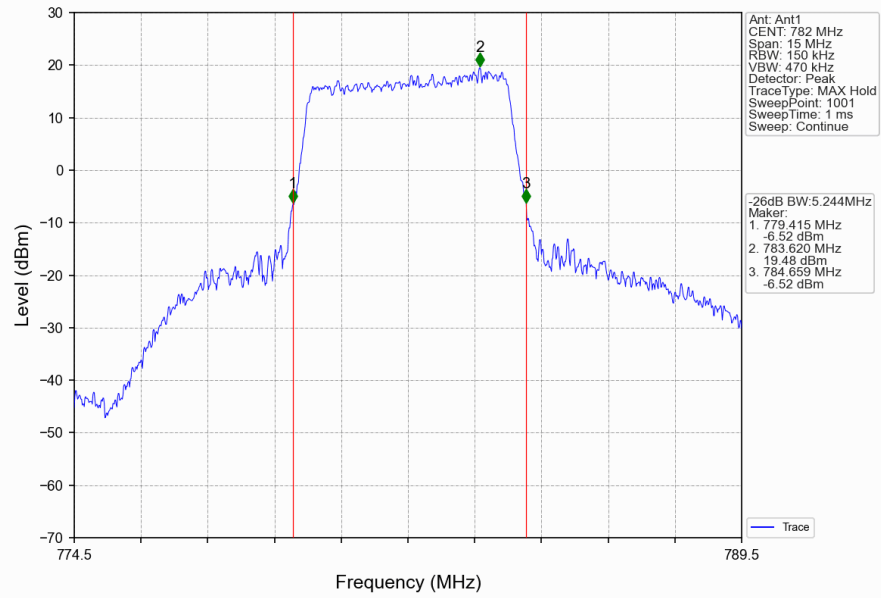
Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



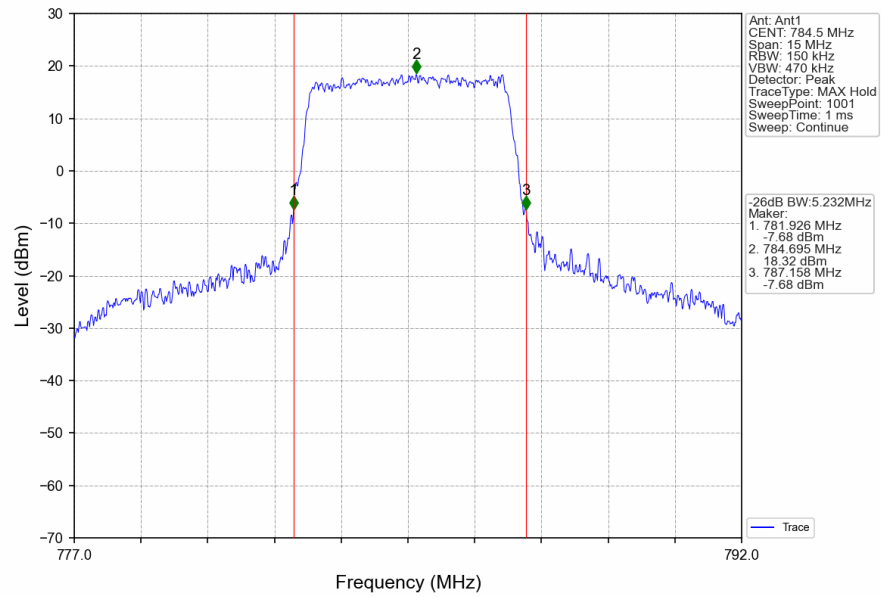
Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



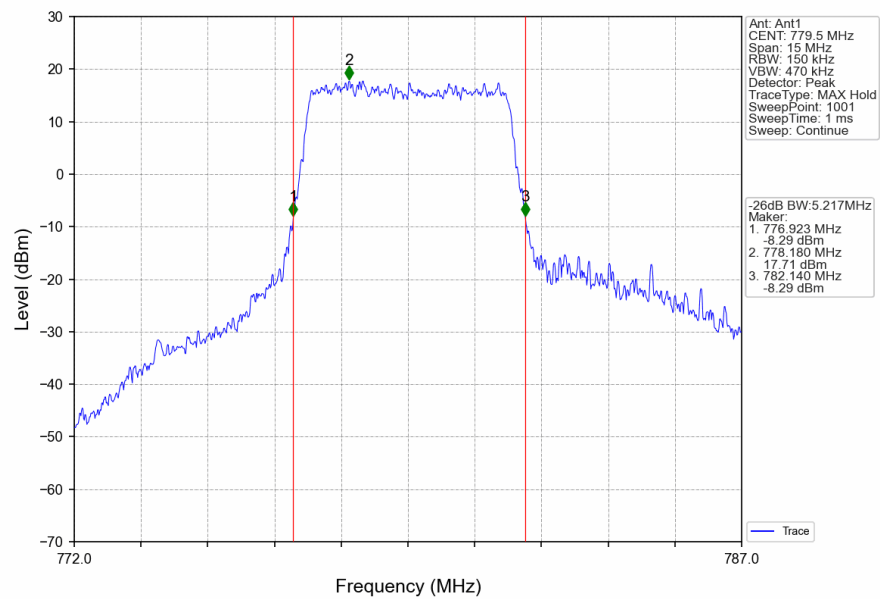
Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



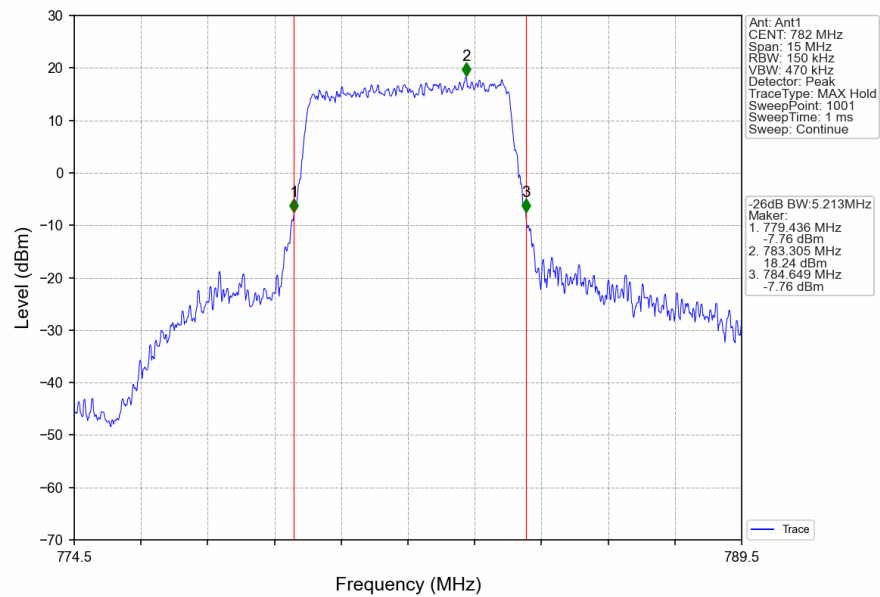
Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



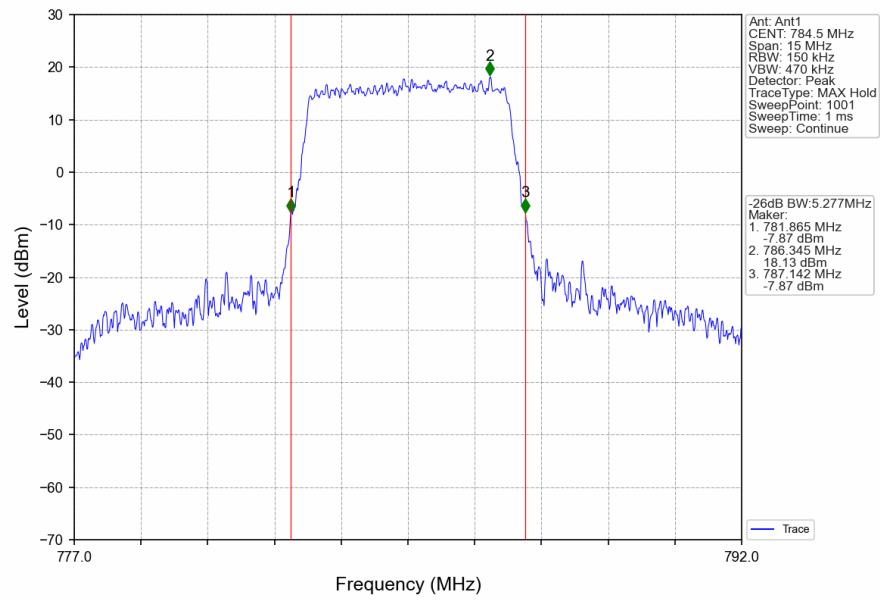
Band13 5MHz 64QAM LCH 779.5MHz RB 25 0 NTNV



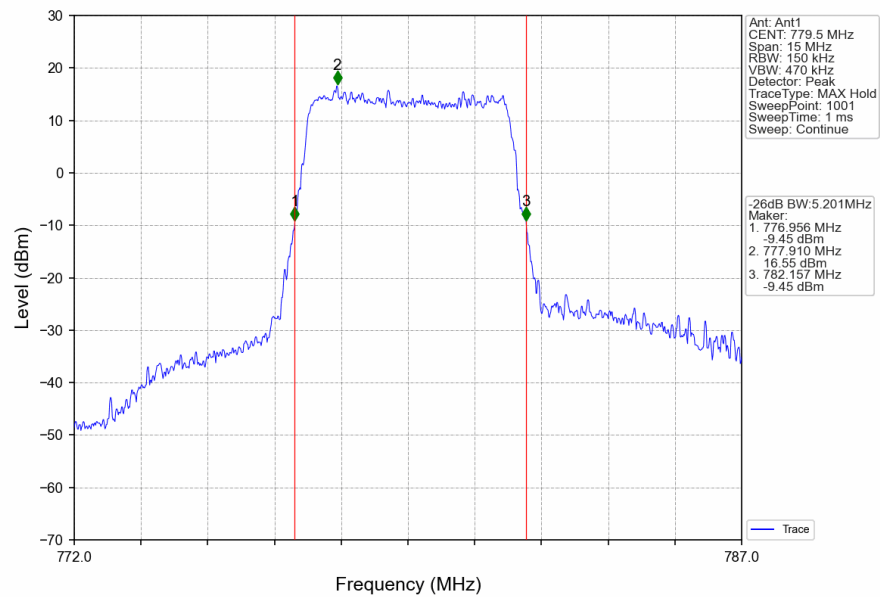
Band13 5MHz 64QAM MCH 782MHz RB 25 0 NTNV



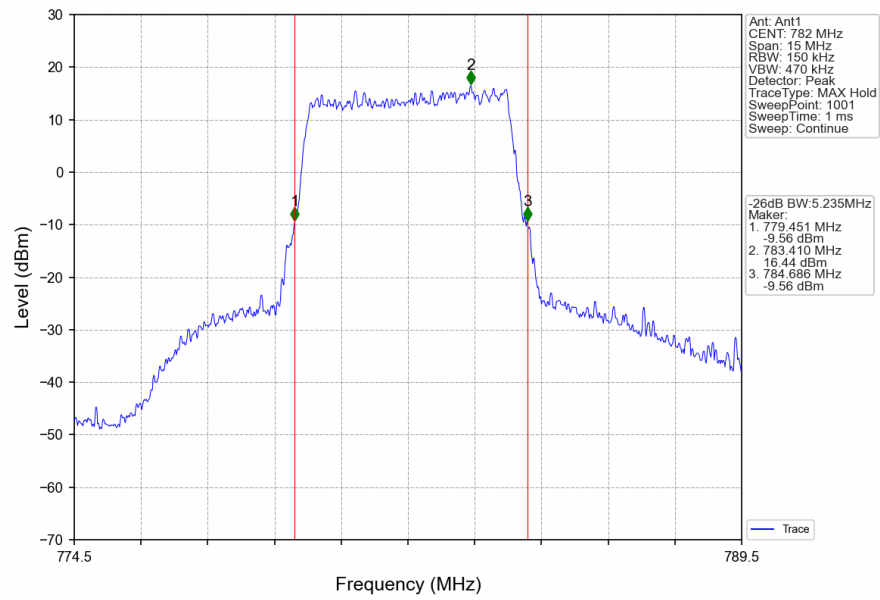
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTNV



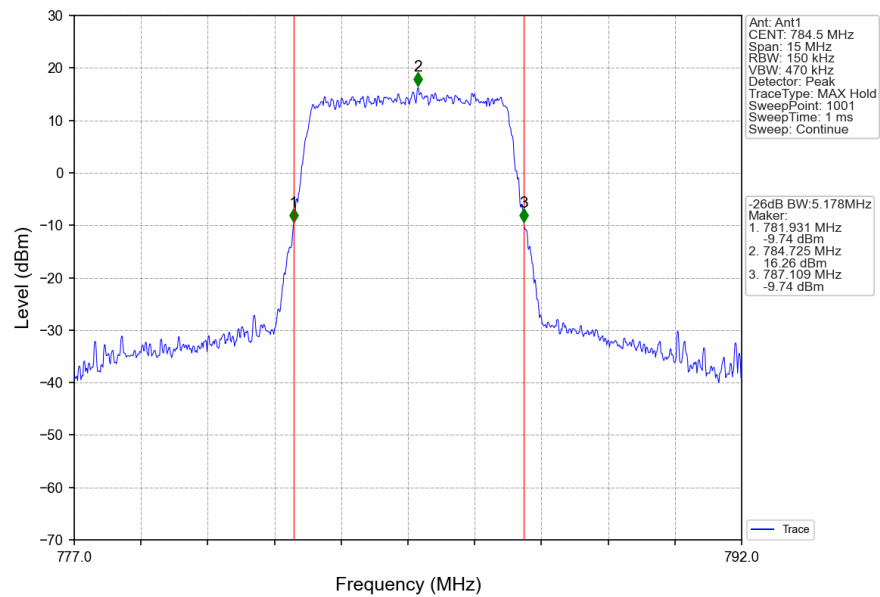
Band13 5MHz 256QAM LCH 779.5MHz RB 25 0 NTNV



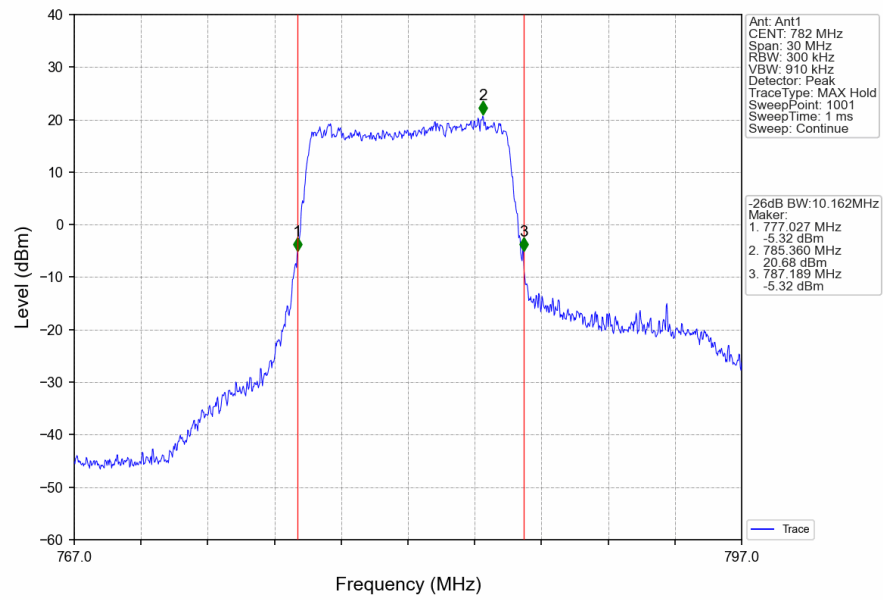
Band13\_5MHz\_256QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



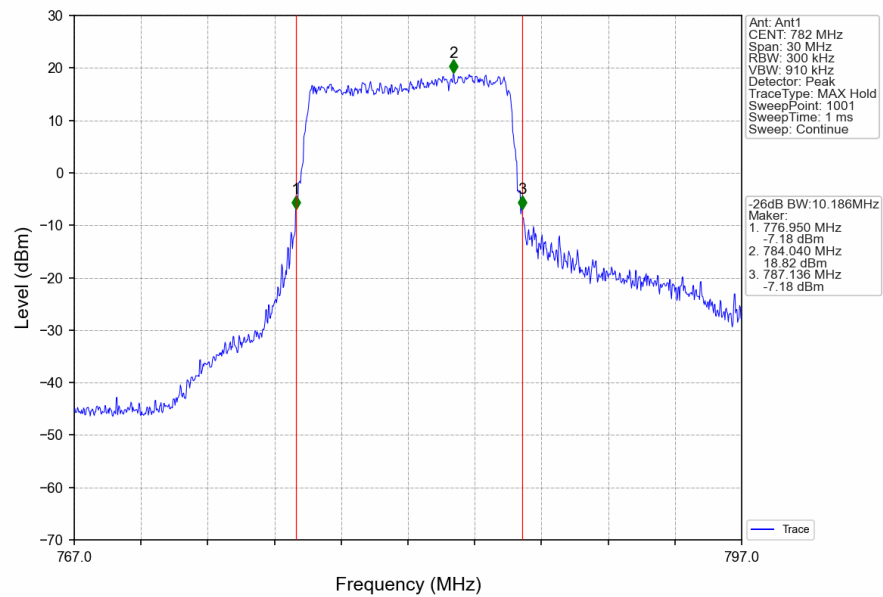
Band13\_5MHz\_256QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



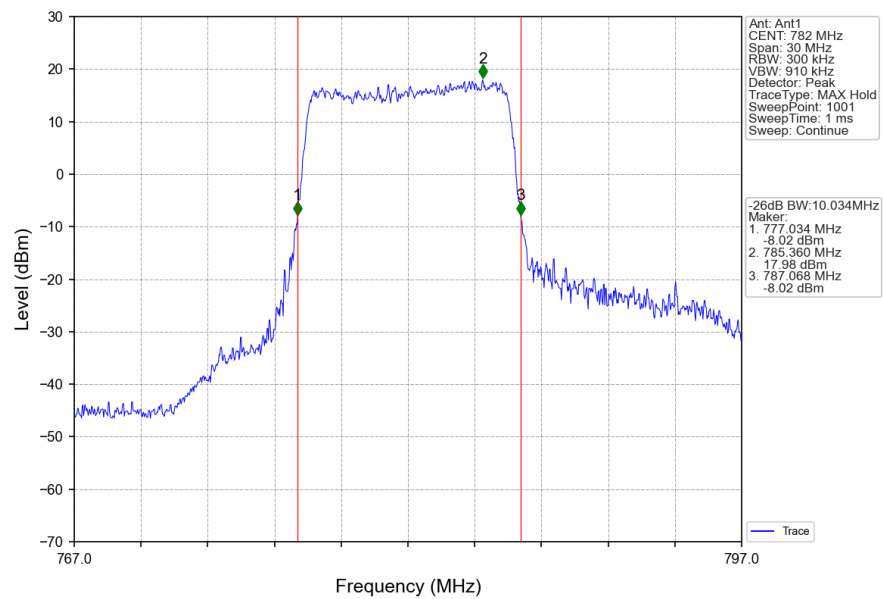
Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_50\_0\_NTNV



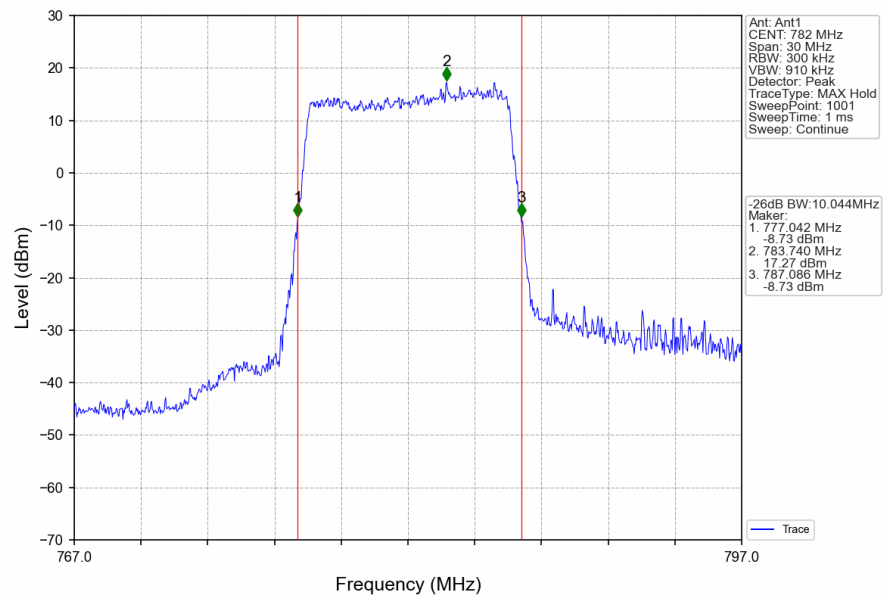
Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



Band13\_10MHz\_64QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



Band13\_10MHz\_256QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



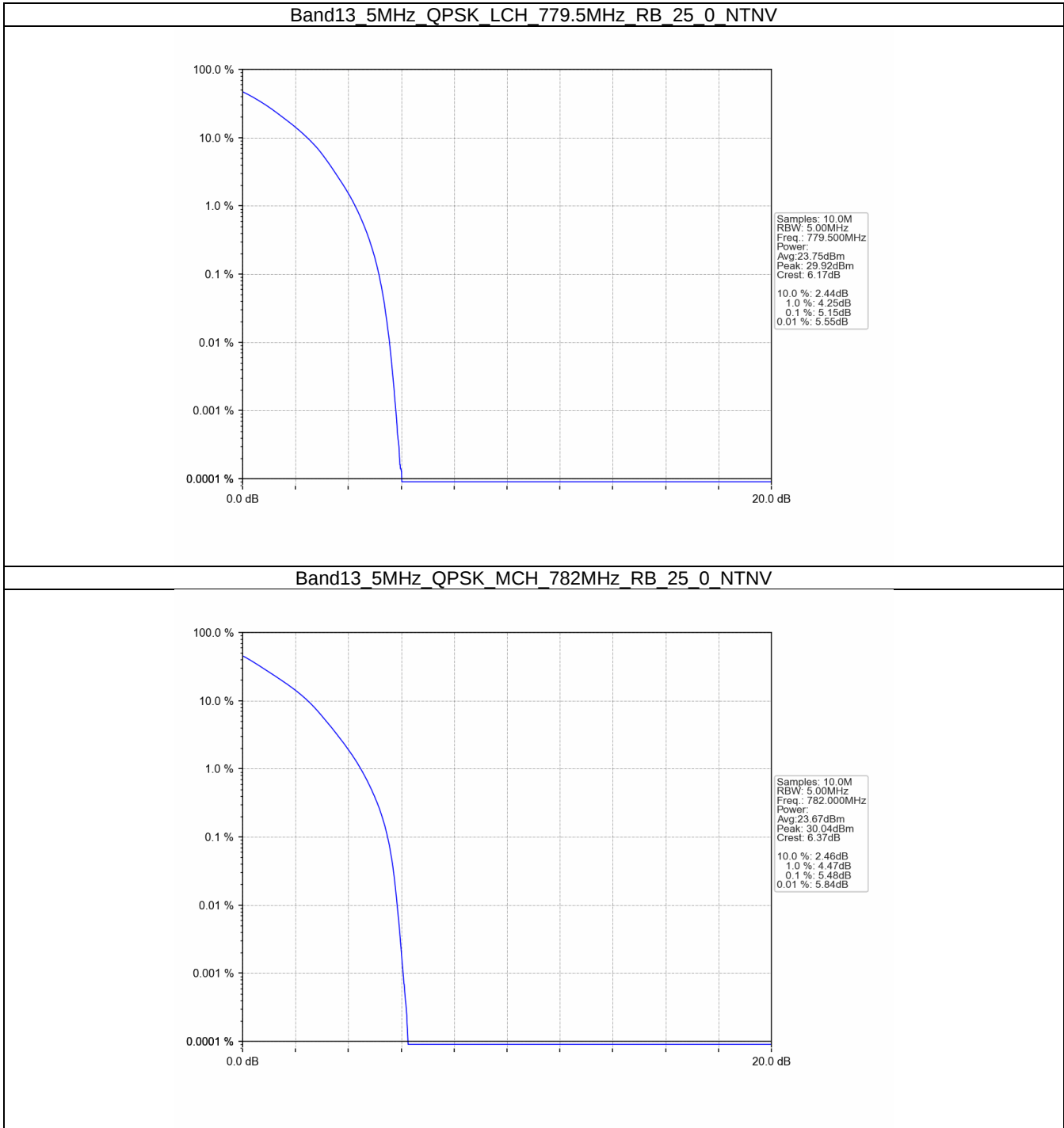
## 4. Peak-Average Ratio

### 4.1 B13\_5MHz

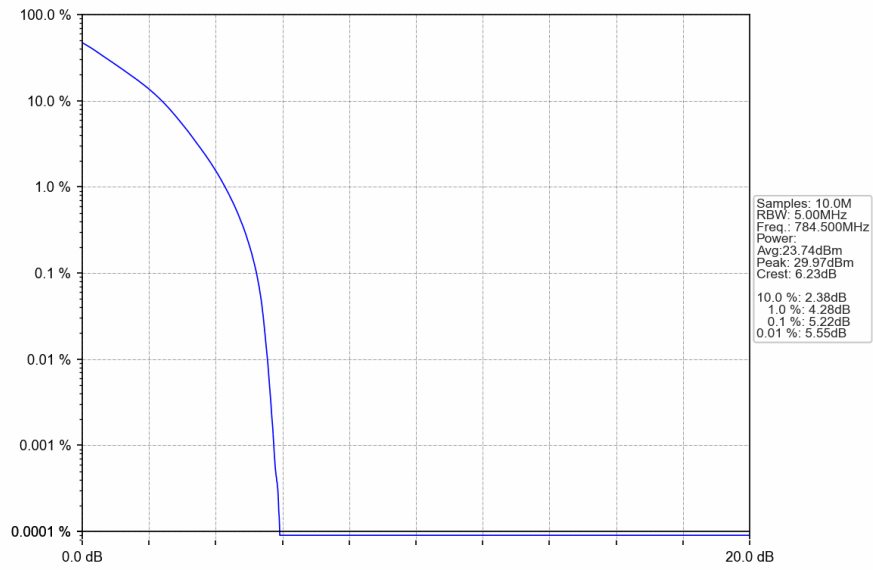
#### 4.1.1 Test Result

| Band: 13 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 779.5           | 25            | 0      | 5.15                    | <=13  | Pass    |
|                                   | 782             | 25            | 0      | 5.48                    | <=13  | Pass    |
|                                   | 784.5           | 25            | 0      | 5.22                    | <=13  | Pass    |
| 16QAM                             | 779.5           | 25            | 0      | 5.90                    | <=13  | Pass    |
|                                   | 782             | 25            | 0      | 6.32                    | <=13  | Pass    |
|                                   | 784.5           | 25            | 0      | 6.06                    | <=13  | Pass    |
| 64QAM                             | 779.5           | 25            | 0      | 9.65                    | <=13  | Pass    |
|                                   | 782             | 25            | 0      | 10.05                   | <=13  | Pass    |
|                                   | 784.5           | 25            | 0      | 9.66                    | <=13  | Pass    |
| 256QAM                            | 779.5           | 25            | 0      | 6.77                    | <=13  | Pass    |
|                                   | 782             | 25            | 0      | 6.95                    | <=13  | Pass    |
|                                   | 784.5           | 25            | 0      | 6.76                    | <=13  | Pass    |

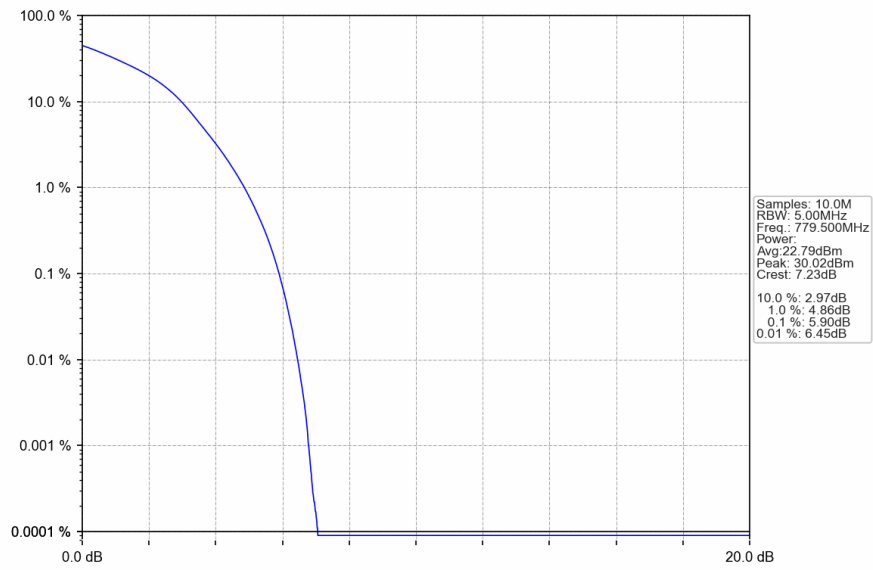
4.1.2 Test Graph



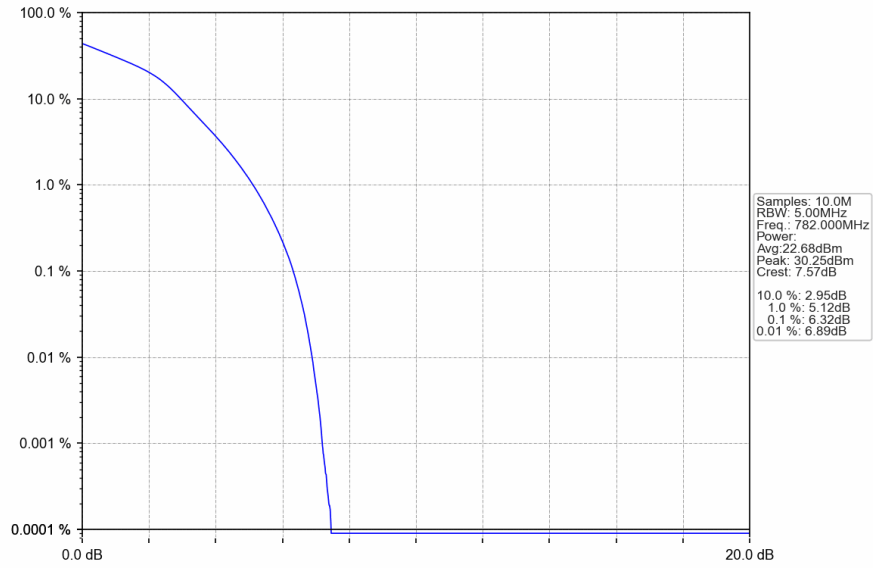
Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



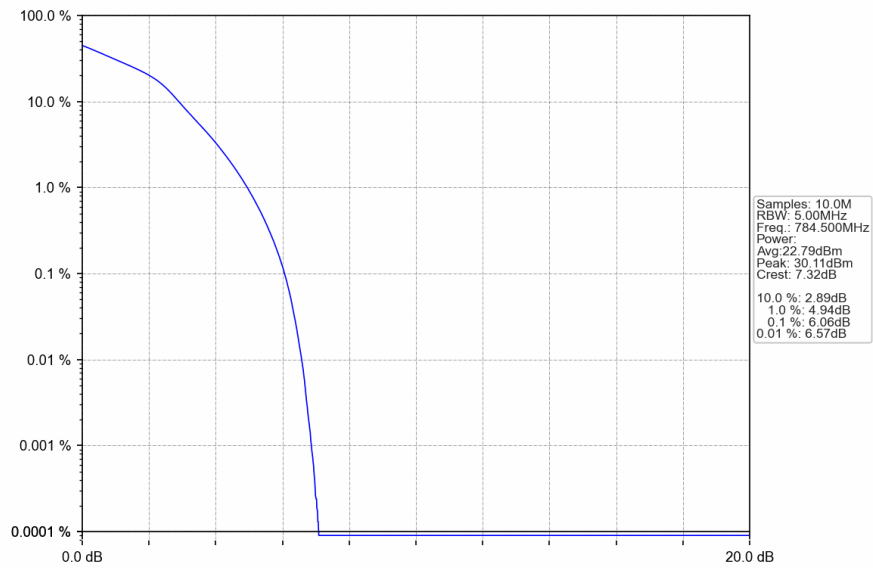
Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



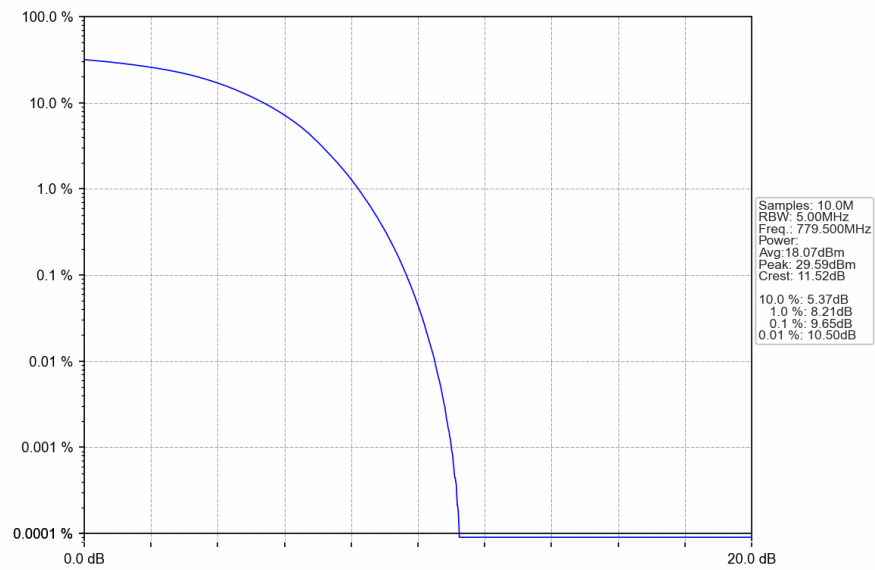
Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



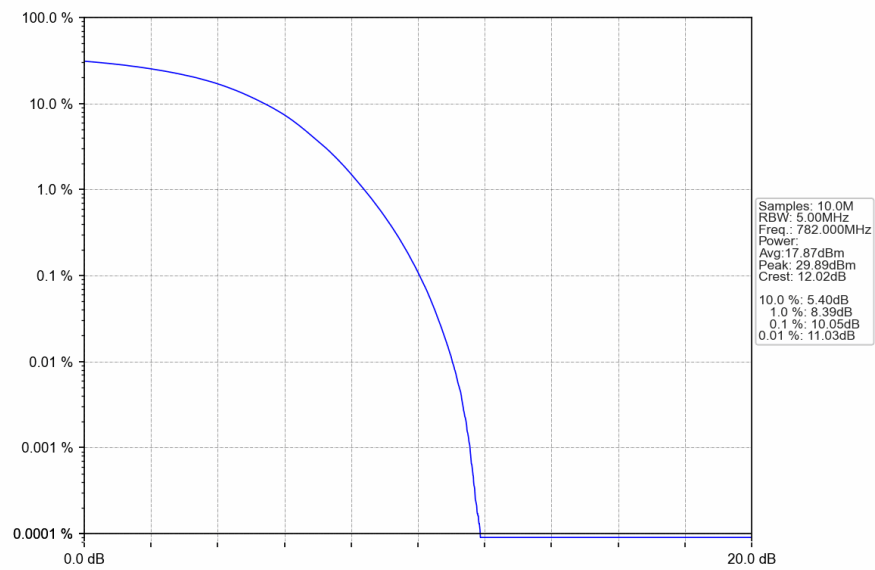
Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



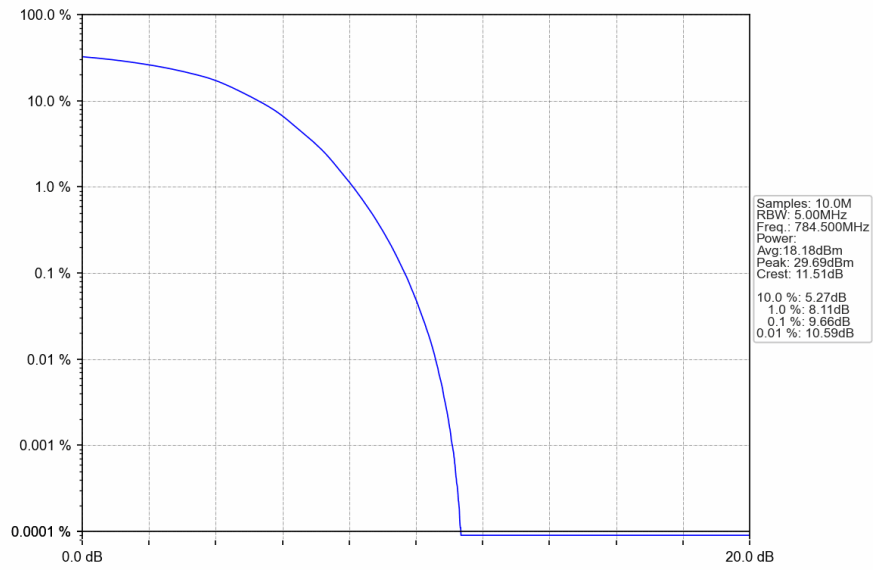
Band13 5MHz 64QAM LCH 779.5MHz RB 25 0 NTNV



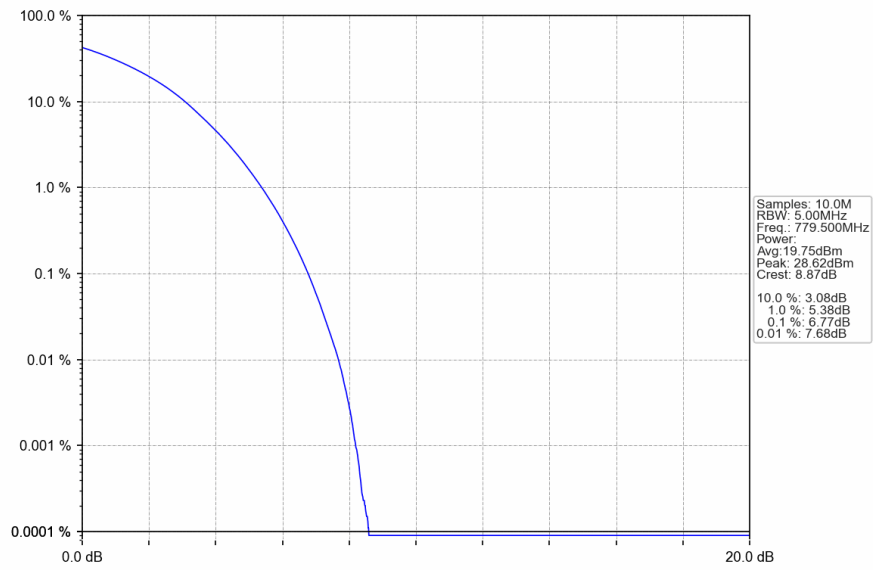
Band13 5MHz 64QAM MCH 782MHz RB 25 0 NTNV



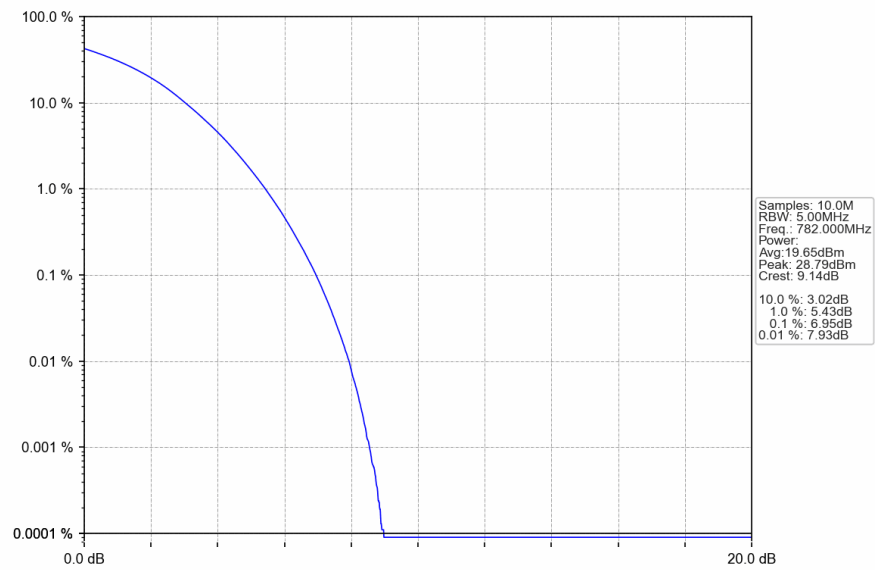
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTN



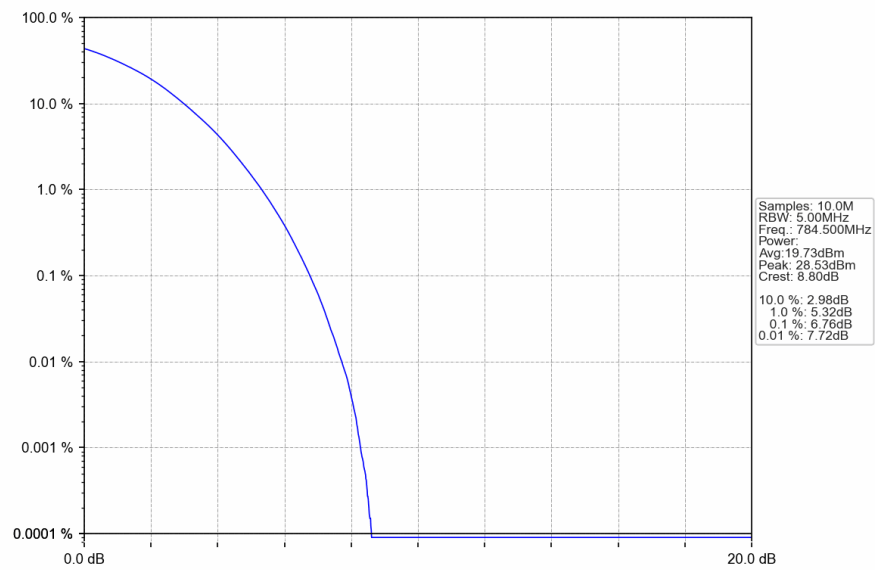
Band13 5MHz 256QAM LCH 779.5MHz RB 25 0 NTN



Band13 5MHz 256QAM MCH 782MHz RB 25 0 NTNV



Band13 5MHz 256QAM HCH 784.5MHz RB 25 0 NTNV

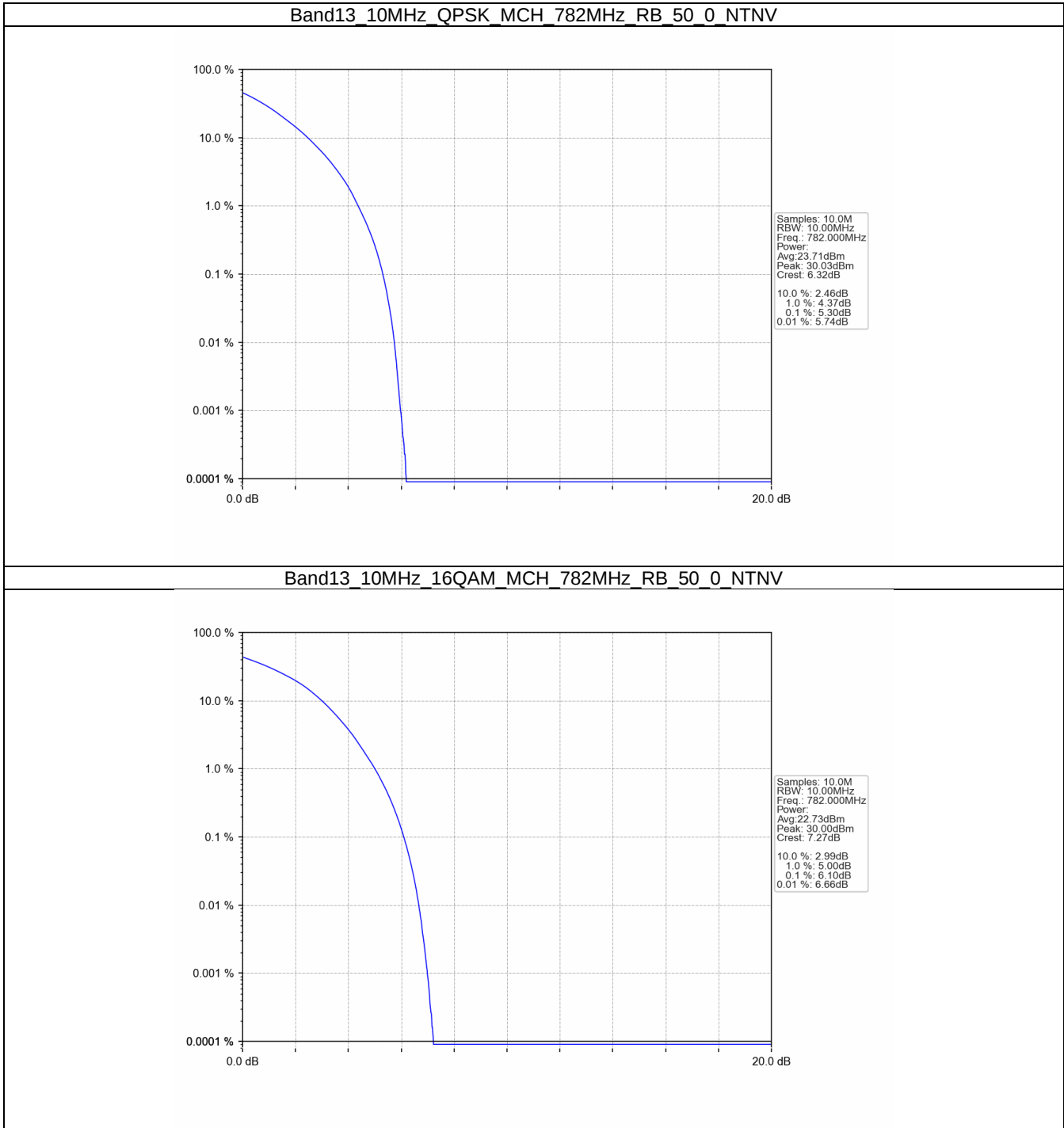


## 4.2 B13\_10MHz

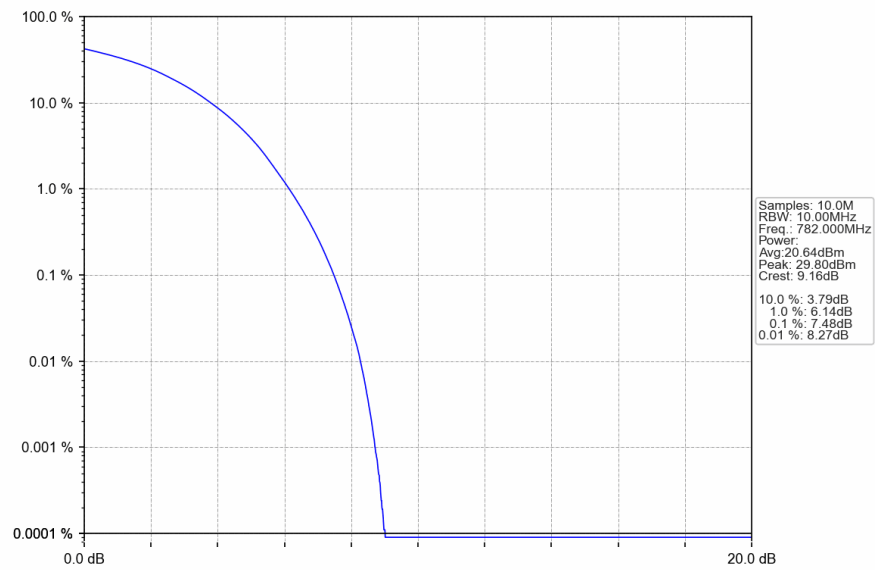
### 4.2.1 Test Result

| Band: 13 / Bandwidth: 10MHz / NTNV |                    |               |        |                         |       |         |
|------------------------------------|--------------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency<br>(MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                    | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 782                | 50            | 0      | 5.30                    | <=13  | Pass    |
| 16QAM                              | 782                | 50            | 0      | 6.10                    | <=13  | Pass    |
| 64QAM                              | 782                | 50            | 0      | 7.48                    | <=13  | Pass    |
| 256QAM                             | 782                | 50            | 0      | 6.84                    | <=13  | Pass    |

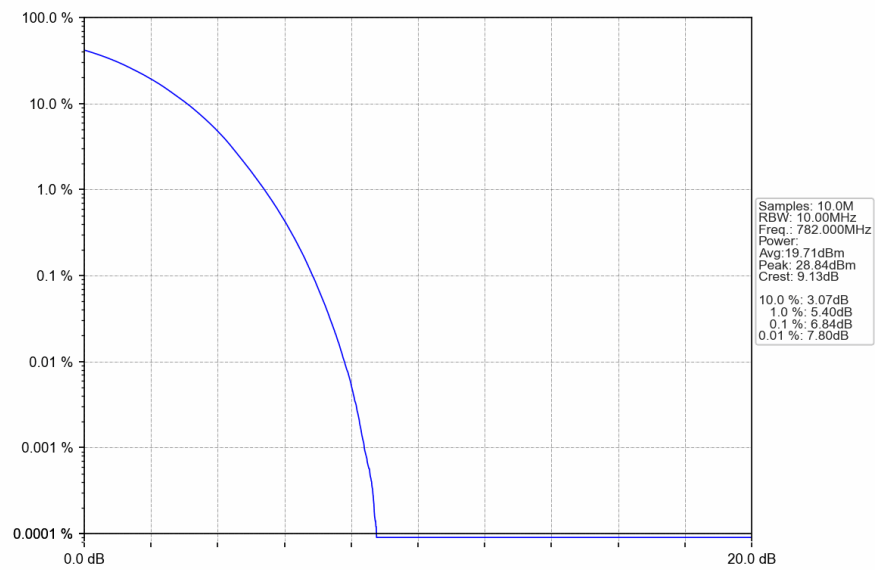
4.2.2 Test Graph



Band13\_10MHz\_64QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



Band13\_10MHz\_256QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



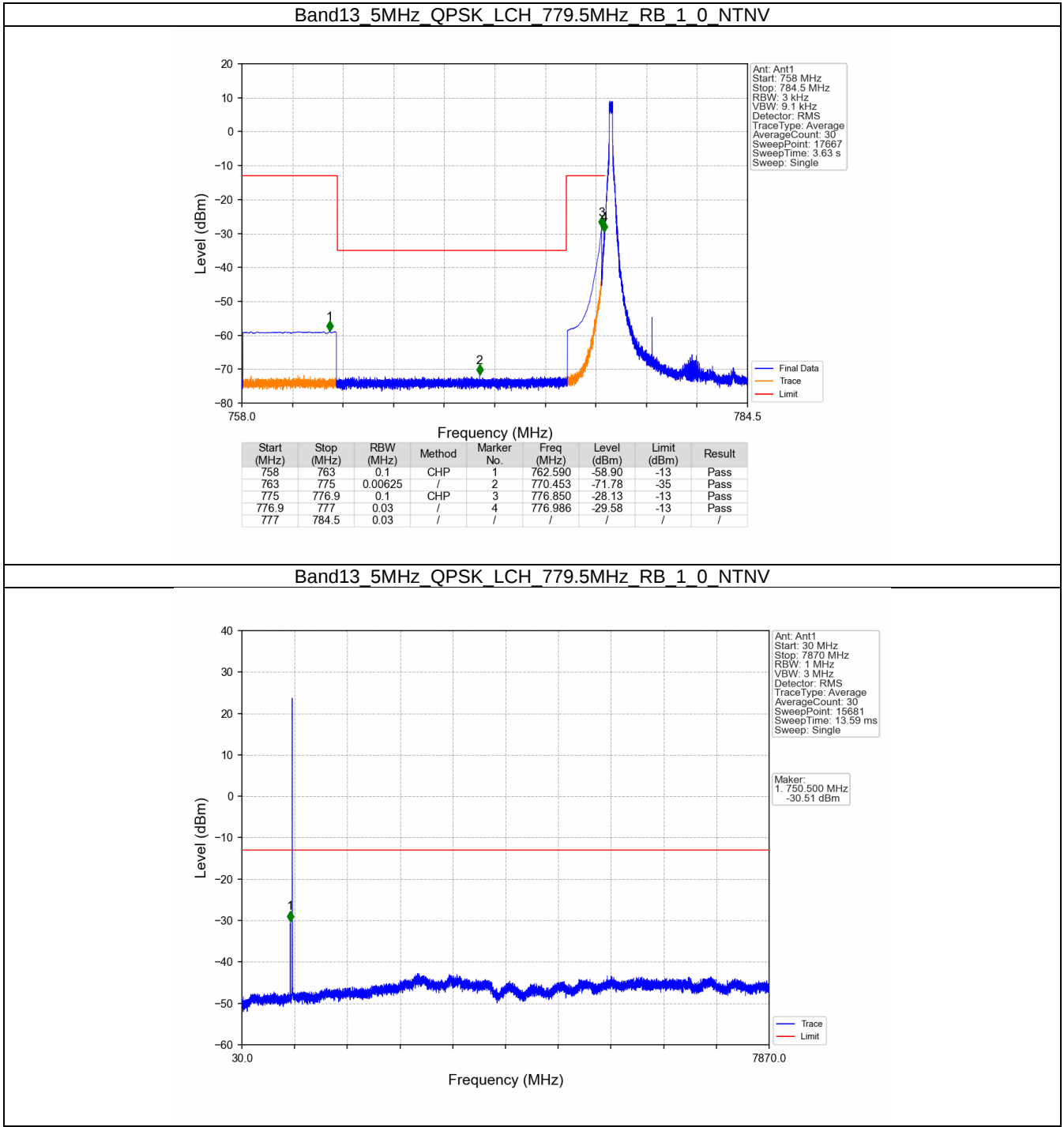
## 5. Spurious Emission

### 5.1 B13\_5MHz

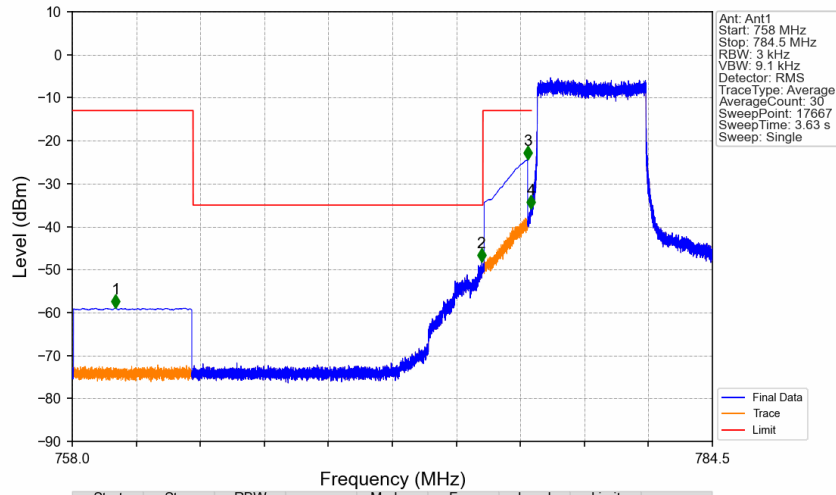
#### 5.1.1 Test Result

| Band: 13 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 779.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 782             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 784.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

5.1.2 Test Graph

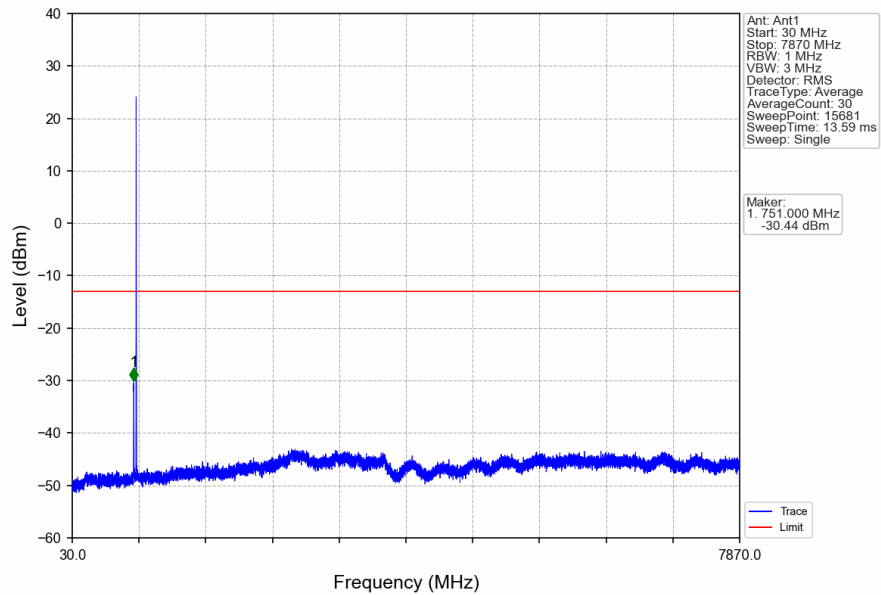


# Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTN

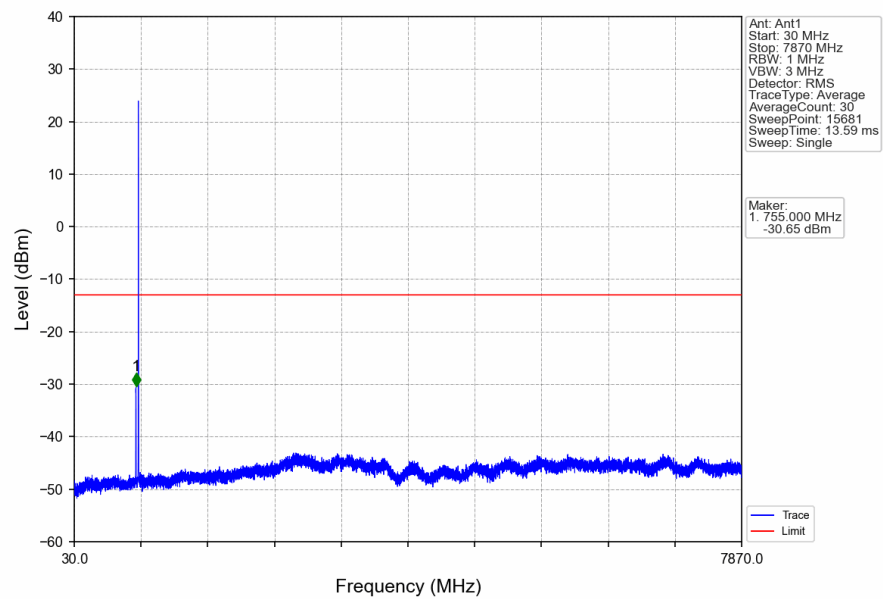


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758         | 763        | 0.1       | CHP    | 1          | 759.796    | -58.96      | -13         | Pass   |
| 763         | 775        | 0.00625   | /      | 2          | 774.933    | -48.26      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 3          | 776.847    | -24.46      | -13         | Pass   |
| 776.9       | 777        | 0.03      | /      | 4          | 776.988    | -35.88      | -13         | Pass   |
| 777         | 784.5      | 0.03      | /      | /          | /          | /           | /           | /      |

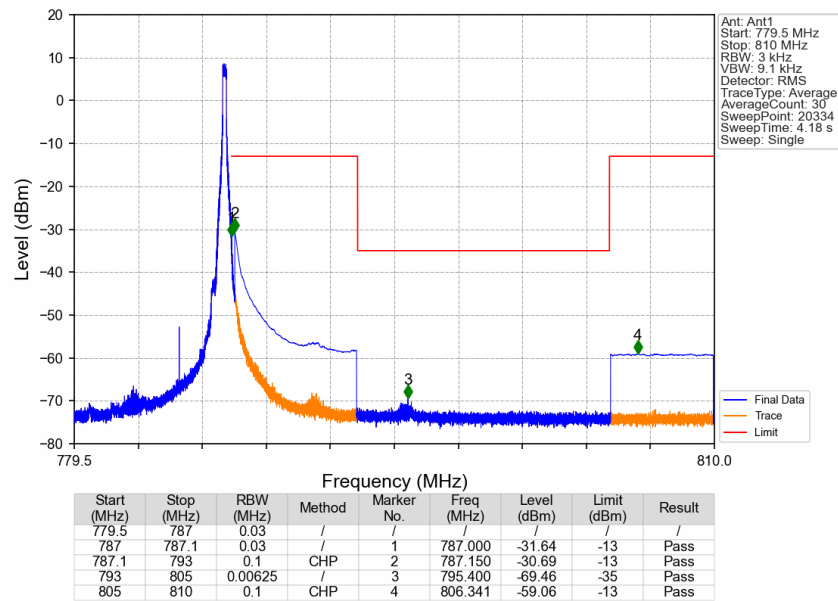
# Band13 5MHz QPSK MCH 782MHz RB 1 0 NTN



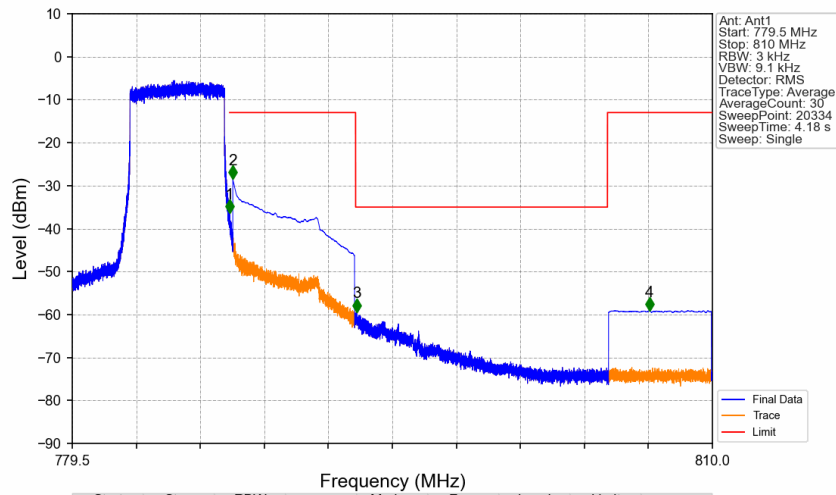
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



Band13 5MHz\_QPSK\_HCH\_784.5MHz\_RB\_1\_24\_NTNV

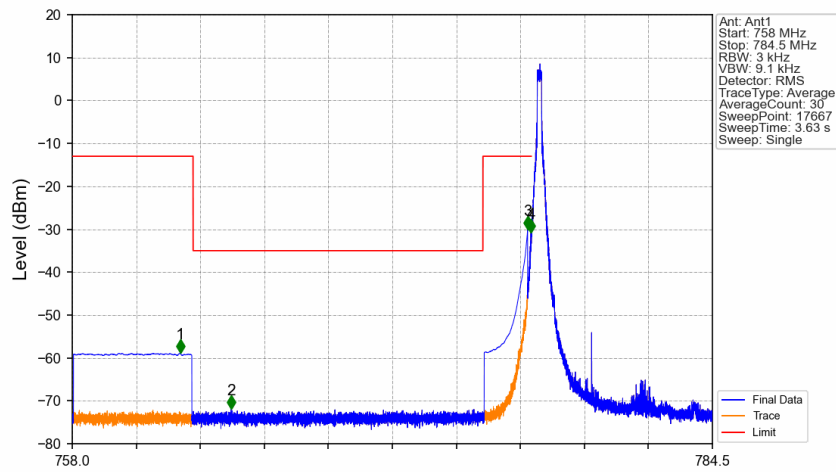


# Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5       | 787        | 0.03      | /      | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | /      | 1          | 787.000    | -36.45      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 2          | 787.150    | -28.40      | -13         | Pass   |
| 793         | 805        | 0.00625   | /      | 3          | 793.072    | -59.42      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 4          | 806.992    | -59.08      | -13         | Pass   |

# Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTV



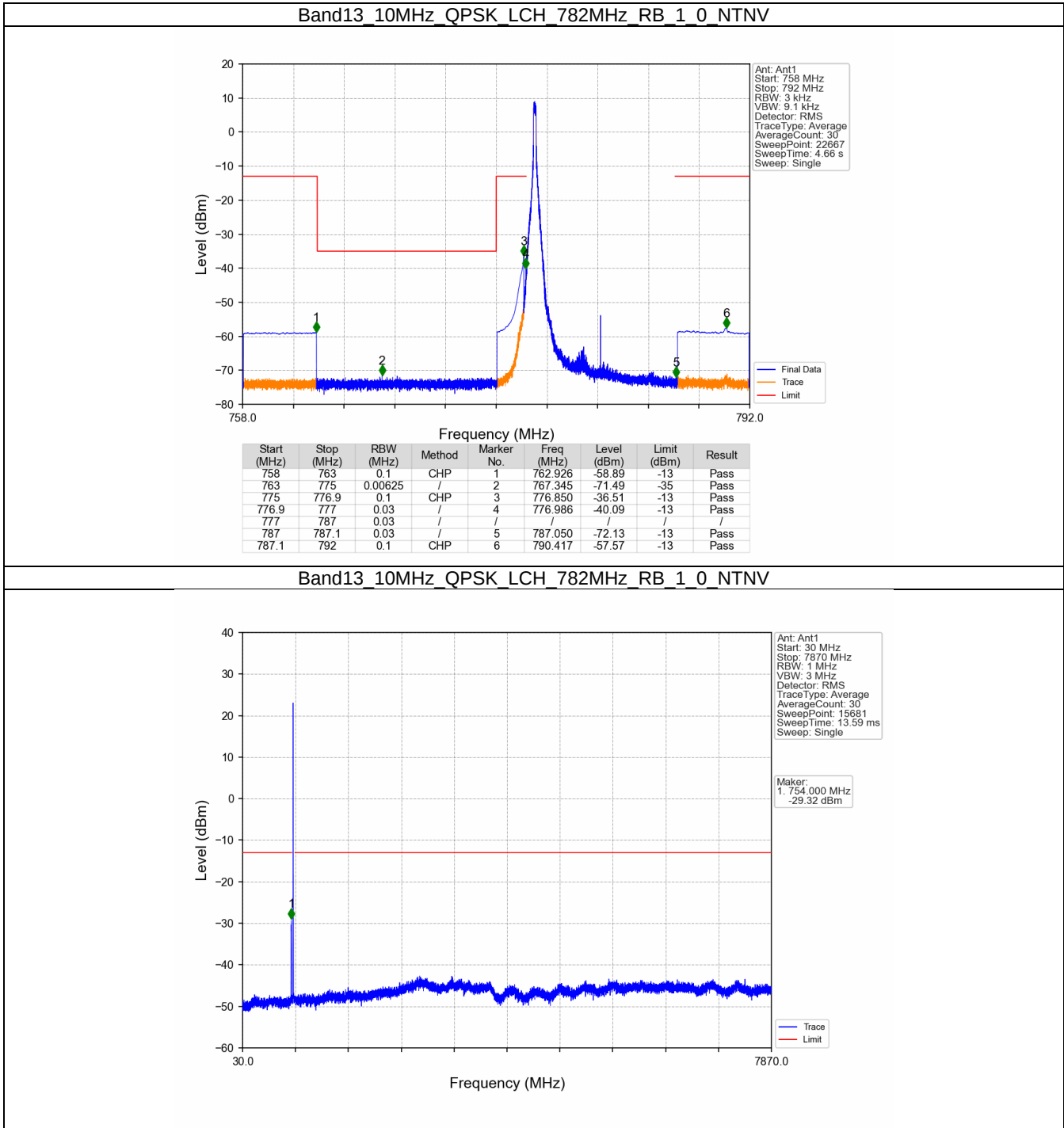
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758         | 763        | 0.1       | CHP    | 1          | 762.464    | -58.90      | -13         | Pass   |
| 763         | 775        | 0.00625   | /      | 2          | 764.572    | -71.90      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 3          | 776.850    | -30.07      | -13         | Pass   |
| 776.9       | 777        | 0.03      | /      | 4          | 776.986    | -30.84      | -13         | Pass   |
| 777         | 784.5      | 0.03      | /      | /          | /          | /           | /           | /      |

## 5.2 B13\_10MHz

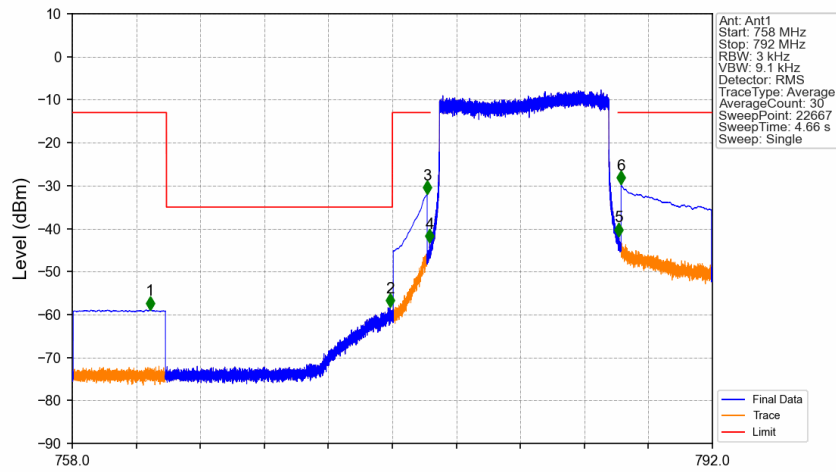
### 5.2.1 Test Result

| Band: 13 / Bandwidth: 10MHz / NTNV |                    |               |        |                     |       |         |
|------------------------------------|--------------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency<br>(MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                    | Size          | Offset | Result              | Limit |         |
| QPSK                               | 782                | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                    | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                    | 782                | 1             | 49     | Refer To Test Graph |       | Pass    |
|                                    |                    | 50            | 0      | Refer To Test Graph |       | Pass    |

5.2.2 Test Graph

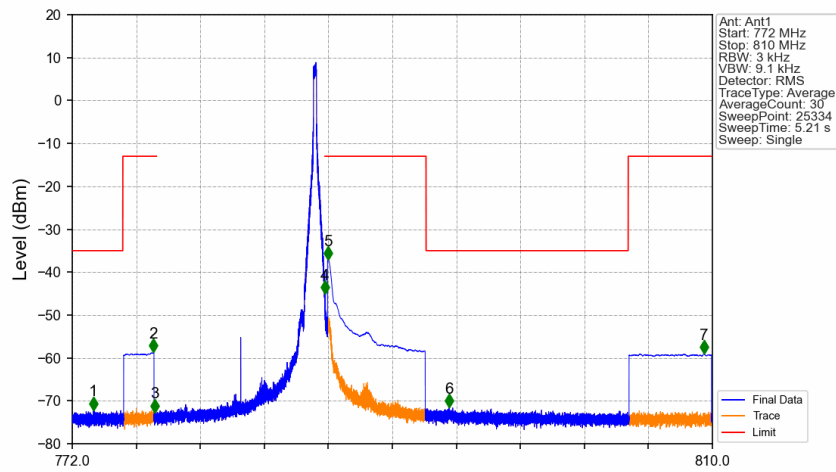


### Band13 10MHz QPSK LCH 782MHz RB 50 0 NTNV



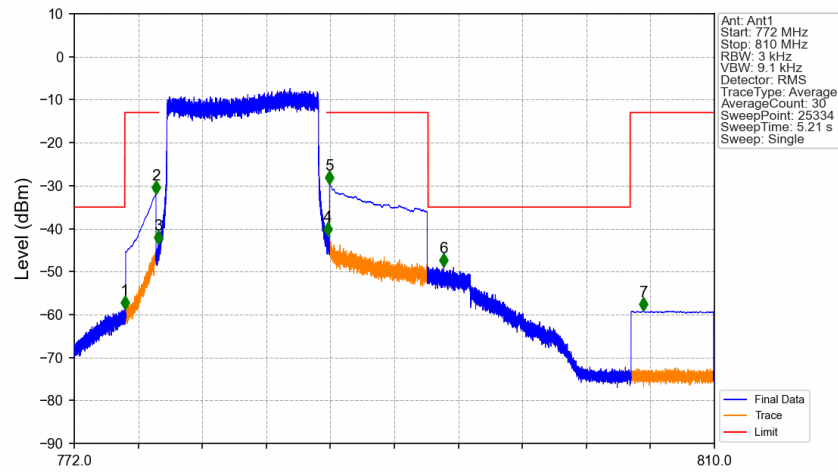
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758         | 763        | 0.1       | CHP    | 1          | 762.134    | -58.88      | -13         | Pass   |
| 763         | 775        | 0.00625   | /      | 2          | 774.883    | -58.31      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 3          | 776.850    | -32.05      | -13         | Pass   |
| 776.9       | 777        | 0.03      | /      | 4          | 776.985    | -43.27      | -13         | Pass   |
| 777         | 787        | 0.03      | /      | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | /      | 5          | 787.027    | -41.77      | -13         | Pass   |
| 787.1       | 792        | 0.1       | CHP    | 6          | 787.150    | -29.66      | -13         | Pass   |

### Band13 10MHz QPSK HCH 782MHz RB 1 49 NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772         | 775        | 0.00625   | /      | 1          | 773.256    | -72.16      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 2          | 776.824    | -58.74      | -13         | Pass   |
| 776.9       | 777        | 0.03      | /      | 3          | 776.905    | -72.71      | -13         | Pass   |
| 777         | 787        | 0.03      | /      | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | /      | 4          | 787.005    | -45.16      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 5          | 787.167    | -37.18      | -13         | Pass   |
| 793         | 805        | 0.00625   | /      | 6          | 794.362    | -71.54      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 7          | 809.502    | -59.01      | -13         | Pass   |

# Band13 10MHz QPSK HCH 782MHz RB 50 0 NTN



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772         | 775        | 0.00625   | /      | 1          | 774.994    | -58.77      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 2          | 776.847    | -31.94      | -13         | Pass   |
| 776.9       | 777        | 0.03      | /      | 3          | 776.989    | -43.62      | -13         | Pass   |
| 777         | 787        | 0.03      | /      | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | /      | 4          | 787.033    | -41.66      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 5          | 787.150    | -29.63      | -13         | Pass   |
| 793         | 805        | 0.00625   | /      | 6          | 793.933    | -48.88      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 7          | 805.794    | -59.13      | -13         | Pass   |

## 6. Field Strength of Spurious Radiation

| LTE Band 13-10M-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|--------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1555.0                         | -65.32     | -13         | -52.32          | -68.46           | 2.6             | 5.74               | Horizontal         | Pass   |
| 2332.5                         | -50.69     | -13         | -37.69          | -53.15           | 2.96            | 5.42               | Horizontal         | Pass   |
| 3110.0                         | -67.15     | -13         | -54.15          | -71.15           | 3.2             | 7.2                | Horizontal         | Pass   |
| 1555.0                         | -61.29     | -13         | -48.29          | -64.43           | 2.6             | 5.74               | Vertical           | Pass   |
| 2332.5                         | -51.08     | -13         | -38.08          | -53.54           | 2.96            | 5.42               | Vertical           | Pass   |
| 3110.0                         | -67.34     | -13         | -54.34          | -71.34           | 3.2             | 7.2                | Vertical           | Pass   |

| LTE Band 13-5M- Low channel |            |             |                 |                  |                 |                    |                    |        |
|-----------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)             | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1554.5                      | -64.11     | -13         | -51.11          | -67.25           | 2.6             | 5.74               | Horizontal         | Pass   |
| 2331.75                     | -49.8      | -13         | -36.8           | -52.26           | 2.96            | 5.42               | Horizontal         | Pass   |
| 3109.0                      | -67.18     | -13         | -54.18          | -71.17           | 3.2             | 7.19               | Horizontal         | Pass   |
| 1554.5                      | -61.5      | -13         | -48.5           | -64.64           | 2.6             | 5.74               | Vertical           | Pass   |
| 2331.75                     | -49.23     | -13         | -36.23          | -51.69           | 2.96            | 5.42               | Vertical           | Pass   |
| 3109.0                      | -67.32     | -13         | -54.32          | -71.31           | 3.2             | 7.19               | Vertical           | Pass   |

| LTE Band 13_5M- Middle channel |            |             |                 |                  |                 |                    |                    |        |
|--------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1559.5                         | -67.93     | -13         | -54.93          | -71.06           | 2.6             | 5.73               | Horizontal         | Pass   |
| 2339.25                        | -50.72     | -13         | -37.72          | -53.19           | 2.96            | 5.43               | Horizontal         | Pass   |
| 3119.0                         | -66.91     | -13         | -53.91          | -70.92           | 3.21            | 7.22               | Horizontal         | Pass   |
| 1559.5                         | -63.07     | -13         | -50.07          | -66.2            | 2.6             | 5.73               | Vertical           | Pass   |
| 2339.25                        | -51.69     | -13         | -38.69          | -54.16           | 2.96            | 5.43               | Vertical           | Pass   |
| 3119.0                         | -67.15     | -13         | -54.15          | -71.16           | 3.21            | 7.22               | Vertical           | Pass   |

| LTE Band 13_5M- High channel |            |             |                 |                  |                 |                    |                    |        |
|------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)              | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1564.5                       | -71.47     | -13         | -58.47          | -74.59           | 2.6             | 5.72               | Horizontal         | Pass   |
| 2346.75                      | -59.48     | -13         | -46.48          | -61.96           | 2.97            | 5.45               | Horizontal         | Pass   |
| 3129.0                       | -68.13     | -13         | -55.13          | -72.16           | 3.21            | 7.24               | Horizontal         | Pass   |
| 1564.5                       | -71.05     | -13         | -58.05          | -74.17           | 2.6             | 5.72               | Vertical           | Pass   |
| 2346.75                      | -57.48     | -13         | -44.48          | -59.96           | 2.97            | 5.45               | Vertical           | Pass   |
| 3129.0                       | -67.76     | -13         | -54.76          | -71.79           | 3.21            | 7.24               | Vertical           | Pass   |

| LTE CA_2A_13A -Low channel |            |             |                 |                  |                 |                    |                    |        |
|----------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)            | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3702.0                     | -63.01     | -13         | -50.01          | -67.87           | 3.58            | 8.44               | Horizontal         | Pass   |
| 5553.0                     | -59.59     | -13         | -46.59          | -65.3            | 4.74            | 10.45              | Horizontal         | Pass   |
| 7404.0                     | -60.85     | -13         | -47.85          | -67.53           | 4.94            | 11.62              | Horizontal         | Pass   |
| 3702.0                     | -64.18     | -13         | -51.18          | -69.04           | 3.58            | 8.44               | Vertical           | Pass   |
| 5553.0                     | -59.81     | -13         | -46.81          | -65.52           | 4.74            | 10.45              | Vertical           | Pass   |
| 7404.0                     | -60.07     | -13         | -47.07          | -66.75           | 4.94            | 11.62              | Vertical           | Pass   |

| LTE CA_2A_13A -Middle channel |            |             |                 |                  |                 |                    |                    |        |
|-------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)               | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3742.0                        | -67.09     | -13         | -54.09          | -71.97           | 3.61            | 8.49               | Horizontal         | Pass   |
| 5613.0                        | -62.65     | -13         | -49.65          | -68.36           | 4.74            | 10.45              | Horizontal         | Pass   |
| 7484.0                        | -60.78     | -13         | -47.78          | -67.56           | 4.94            | 11.72              | Horizontal         | Pass   |
| 3742.0                        | -67.09     | -13         | -54.09          | -71.97           | 3.61            | 8.49               | Vertical           | Pass   |
| 5613.0                        | -62.7      | -13         | -49.7           | -68.41           | 4.74            | 10.45              | Vertical           | Pass   |
| 7484.0                        | -60.9      | -13         | -47.9           | -67.68           | 4.94            | 11.72              | Vertical           | Pass   |

| LTE CA_2A_13A -High channel |            |             |                 |                  |                 |                    |                    |        |
|-----------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)             | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3782.0                      | -66.88     | -13         | -53.88          | -71.78           | 3.65            | 8.55               | Horizontal         | Pass   |
| 5673.0                      | -62.05     | -13         | -49.05          | -67.75           | 4.75            | 10.45              | Horizontal         | Pass   |
| 7564.0                      | -60.73     | -13         | -47.73          | -67.6            | 4.95            | 11.82              | Horizontal         | Pass   |
| 3782.0                      | -66.84     | -13         | -53.84          | -71.74           | 3.65            | 8.55               | Vertical           | Pass   |
| 5673.0                      | -62.67     | -13         | -49.67          | -68.37           | 4.75            | 10.45              | Vertical           | Pass   |
| 7564.0                      | -60.61     | -13         | -47.61          | -67.48           | 4.95            | 11.82              | Vertical           | Pass   |

| LTE CA_4A_13A -Low channel |            |             |                 |                  |                 |                    |                    |        |
|----------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)            | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3422.0                     | -67.3      | -13         | -54.3           | -71.92           | 3.36            | 7.98               | Horizontal         | Pass   |
| 5133.0                     | -62.54     | -13         | -49.54          | -68.15           | 4.61            | 10.22              | Horizontal         | Pass   |
| 6844.0                     | -61.48     | -13         | -48.48          | -67.51           | 4.9             | 10.93              | Horizontal         | Pass   |
| 3422.0                     | -64.93     | -13         | -51.93          | -69.55           | 3.36            | 7.98               | Vertical           | Pass   |
| 5133.0                     | -62.22     | -13         | -49.22          | -67.83           | 4.61            | 10.22              | Vertical           | Pass   |
| 6844.0                     | -60.91     | -13         | -47.91          | -66.94           | 4.9             | 10.93              | Vertical           | Pass   |

| LTE CA_4A_13A -Middle channel |            |             |                 |                  |                 |                    |                    |        |
|-------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)               | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3447.0                        | -66.75     | -13         | -53.75          | -71.42           | 3.37            | 8.04               | Horizontal         | Pass   |
| 5170.5                        | -60.79     | -13         | -47.79          | -66.42           | 4.62            | 10.25              | Horizontal         | Pass   |
| 6894.0                        | -61.42     | -13         | -48.42          | -67.51           | 4.9             | 10.99              | Horizontal         | Pass   |
| 3447.0                        | -66.77     | -13         | -53.77          | -71.44           | 3.37            | 8.04               | Vertical           | Pass   |
| 5170.5                        | -60.19     | -13         | -47.19          | -65.82           | 4.62            | 10.25              | Vertical           | Pass   |
| 6894.0                        | -61.77     | -13         | -48.77          | -67.86           | 4.9             | 10.99              | Vertical           | Pass   |

| LTE CA_4A_13A -High channel |            |             |                 |                  |                 |                    |                    |        |
|-----------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)             | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3472.0                      | -66.85     | -13         | -53.85          | -71.56           | 3.39            | 8.1                | Horizontal         | Pass   |
| 5208.0                      | -59.42     | -13         | -46.42          | -65.05           | 4.64            | 10.27              | Horizontal         | Pass   |
| 6944.0                      | -61.29     | -13         | -48.29          | -67.44           | 4.91            | 11.06              | Horizontal         | Pass   |
| 3472.0                      | -66.68     | -13         | -53.68          | -71.39           | 3.39            | 8.1                | Vertical           | Pass   |
| 5208.0                      | -59.91     | -13         | -46.91          | -65.54           | 4.64            | 10.27              | Vertical           | Pass   |
| 6944.0                      | -61.5      | -13         | -48.5           | -67.65           | 4.91            | 11.06              | Vertical           | Pass   |