

## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

#### 1.1.1 B5\_1.4MHz\_ERP

| Band: 5 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 824.7           | 1             | 0      | 23.45                 | 3.00       | 24.30     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.51                 | 3.00       | 24.36     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 23.78                 | 3.00       | 24.63     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 23.48                 | 3.00       | 24.33     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.64                 | 3.00       | 24.49     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 23.71                 | 3.00       | 24.56     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 22.38                 | 3.00       | 23.23     | <=38.45 | Pass    |
|                                    | 836.5           | 1             | 0      | 23.04                 | 3.00       | 23.89     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.08                 | 3.00       | 23.93     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 23.20                 | 3.00       | 24.05     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 23.02                 | 3.00       | 23.87     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.13                 | 3.00       | 23.98     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 23.20                 | 3.00       | 24.05     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.97                 | 3.00       | 22.82     | <=38.45 | Pass    |
|                                    | 848.3           | 1             | 0      | 20.84                 | 3.00       | 21.69     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 20.86                 | 3.00       | 21.71     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 21.04                 | 3.00       | 21.89     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 20.92                 | 3.00       | 21.77     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 20.90                 | 3.00       | 21.75     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 20.96                 | 3.00       | 21.81     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 19.72                 | 3.00       | 20.57     | <=38.45 | Pass    |
| 16QAM                              | 824.7           | 1             | 0      | 22.30                 | 3.00       | 23.15     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.50                 | 3.00       | 23.35     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.76                 | 3.00       | 23.61     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.21                 | 3.00       | 23.06     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.37                 | 3.00       | 23.22     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.49                 | 3.00       | 23.34     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.66                 | 3.00       | 22.51     | <=38.45 | Pass    |
|                                    | 836.5           | 1             | 0      | 22.00                 | 3.00       | 22.85     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.26                 | 3.00       | 23.11     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.32                 | 3.00       | 23.17     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 21.90                 | 3.00       | 22.75     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.00                 | 3.00       | 22.85     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 21.99                 | 3.00       | 22.84     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.16                 | 3.00       | 22.01     | <=38.45 | Pass    |
|                                    | 848.3           | 1             | 0      | 19.80                 | 3.00       | 20.65     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 19.82                 | 3.00       | 20.67     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 20.07                 | 3.00       | 20.92     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 19.70                 | 3.00       | 20.55     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 19.75                 | 3.00       | 20.60     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 19.70                 | 3.00       | 20.55     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 18.92                 | 3.00       | 19.77     | <=38.45 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.1.2 B5\_3MHz\_ERP

| Band: 5 / Bandwidth: 3MHz / NTNV             |                 |               |        |                       |            |           |         |         |
|----------------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                                   | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                              |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                                         | 825.5           | 1             | 0      | 23.44                 | 3.00       | 24.29     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 23.96                 | 3.00       | 24.81     | <=38.45 | Pass    |
|                                              |                 |               | 14     | 24.36                 | 3.00       | 25.21     | <=38.45 | Pass    |
|                                              |                 | 8             | 0      | 22.41                 | 3.00       | 23.26     | <=38.45 | Pass    |
|                                              |                 |               | 4      | 22.71                 | 3.00       | 23.56     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 22.92                 | 3.00       | 23.77     | <=38.45 | Pass    |
|                                              |                 | 15            | 0      | 22.64                 | 3.00       | 23.49     | <=38.45 | Pass    |
|                                              | 836.5           | 1             | 0      | 23.28                 | 3.00       | 24.13     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 23.51                 | 3.00       | 24.36     | <=38.45 | Pass    |
|                                              |                 |               | 14     | 23.43                 | 3.00       | 24.28     | <=38.45 | Pass    |
|                                              |                 | 8             | 0      | 22.16                 | 3.00       | 23.01     | <=38.45 | Pass    |
|                                              |                 |               | 4      | 22.27                 | 3.00       | 23.12     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 22.29                 | 3.00       | 23.14     | <=38.45 | Pass    |
|                                              | 15              | 0             | 22.20  | 3.00                  | 23.05      | <=38.45   | Pass    |         |
|                                              | 847.5           | 1             | 0      | 21.96                 | 3.00       | 22.81     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 22.13                 | 3.00       | 22.98     | <=38.45 | Pass    |
|                                              |                 |               | 14     | 22.20                 | 3.00       | 23.05     | <=38.45 | Pass    |
|                                              |                 | 8             | 0      | 20.83                 | 3.00       | 21.68     | <=38.45 | Pass    |
|                                              |                 |               | 4      | 20.95                 | 3.00       | 21.80     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 20.98                 | 3.00       | 21.83     | <=38.45 | Pass    |
|                                              |                 | 15            | 0      | 20.92                 | 3.00       | 21.77     | <=38.45 | Pass    |
| 16QAM                                        |                 | 825.5         | 1      | 0                     | 22.42      | 3.00      | 23.27   | <=38.45 |
|                                              | 7               |               |        | 23.02                 | 3.00       | 23.87     | <=38.45 | Pass    |
|                                              | 14              |               |        | 23.40                 | 3.00       | 24.25     | <=38.45 | Pass    |
|                                              | 8               |               | 0      | 21.67                 | 3.00       | 22.52     | <=38.45 | Pass    |
|                                              |                 |               | 4      | 22.03                 | 3.00       | 22.88     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 22.19                 | 3.00       | 23.04     | <=38.45 | Pass    |
|                                              | 15              |               | 0      | 21.82                 | 3.00       | 22.67     | <=38.45 | Pass    |
|                                              | 836.5           | 1             | 0      | 22.19                 | 3.00       | 23.04     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 22.44                 | 3.00       | 23.29     | <=38.45 | Pass    |
|                                              |                 |               | 14     | 22.47                 | 3.00       | 23.32     | <=38.45 | Pass    |
|                                              |                 | 8             | 0      | 21.28                 | 3.00       | 22.13     | <=38.45 | Pass    |
|                                              |                 |               | 4      | 21.40                 | 3.00       | 22.25     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 21.39                 | 3.00       | 22.24     | <=38.45 | Pass    |
|                                              | 15              | 0             | 21.29  | 3.00                  | 22.14      | <=38.45   | Pass    |         |
|                                              | 847.5           | 1             | 0      | 21.18                 | 3.00       | 22.03     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 21.22                 | 3.00       | 22.07     | <=38.45 | Pass    |
|                                              |                 |               | 14     | 21.24                 | 3.00       | 22.09     | <=38.45 | Pass    |
|                                              |                 | 8             | 0      | 20.05                 | 3.00       | 20.90     | <=38.45 | Pass    |
|                                              |                 |               | 4      | 20.11                 | 3.00       | 20.96     | <=38.45 | Pass    |
|                                              |                 |               | 7      | 20.05                 | 3.00       | 20.90     | <=38.45 | Pass    |
|                                              |                 | 15            | 0      | 20.00                 | 3.00       | 20.85     | <=38.45 | Pass    |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |                 |               |        |                       |            |           |         |         |

## 1.1.3 B5\_5MHz\_ERP

|                                  |
|----------------------------------|
| Band: 5 / Bandwidth: 5MHz / NTNV |
|----------------------------------|

| Modulation | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
|            |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK       | 826.5           | 1             | 0      | 22.82                 | 3.00       | 23.67     | <=38.45 | Pass    |
|            |                 |               | 13     | 22.31                 | 3.00       | 23.16     | <=38.45 | Pass    |
|            |                 |               | 24     | 22.10                 | 3.00       | 22.95     | <=38.45 | Pass    |
|            |                 | 12            | 0      | 21.01                 | 3.00       | 21.86     | <=38.45 | Pass    |
|            |                 |               | 6      | 20.98                 | 3.00       | 21.83     | <=38.45 | Pass    |
|            |                 |               | 13     | 20.81                 | 3.00       | 21.66     | <=38.45 | Pass    |
|            |                 | 25            | 0      | 20.89                 | 3.00       | 21.74     | <=38.45 | Pass    |
|            |                 |               | 0      | 23.09                 | 3.00       | 23.94     | <=38.45 | Pass    |
|            |                 |               | 13     | 23.54                 | 3.00       | 24.39     | <=38.45 | Pass    |
|            | 836.5           | 1             | 24     | 23.40                 | 3.00       | 24.25     | <=38.45 | Pass    |
|            |                 |               | 0      | 22.04                 | 3.00       | 22.89     | <=38.45 | Pass    |
|            |                 |               | 6      | 22.30                 | 3.00       | 23.15     | <=38.45 | Pass    |
|            |                 | 12            | 13     | 22.28                 | 3.00       | 23.13     | <=38.45 | Pass    |
|            |                 |               | 0      | 22.17                 | 3.00       | 23.02     | <=38.45 | Pass    |
|            |                 |               | 0      | 22.15                 | 3.00       | 23.00     | <=38.45 | Pass    |
|            |                 | 1             | 13     | 22.08                 | 3.00       | 22.93     | <=38.45 | Pass    |
|            |                 |               | 24     | 22.23                 | 3.00       | 23.08     | <=38.45 | Pass    |
|            |                 |               | 0      | 20.79                 | 3.00       | 21.64     | <=38.45 | Pass    |
|            | 846.5           | 12            | 6      | 20.85                 | 3.00       | 21.70     | <=38.45 | Pass    |
|            |                 |               | 13     | 20.97                 | 3.00       | 21.82     | <=38.45 | Pass    |
|            |                 |               | 0      | 20.89                 | 3.00       | 21.74     | <=38.45 | Pass    |
| 16QAM      | 826.5           | 1             | 0      | 21.57                 | 3.00       | 22.42     | <=38.45 | Pass    |
|            |                 |               | 13     | 21.10                 | 3.00       | 21.95     | <=38.45 | Pass    |
|            |                 |               | 24     | 21.05                 | 3.00       | 21.90     | <=38.45 | Pass    |
|            |                 | 12            | 0      | 20.15                 | 3.00       | 21.00     | <=38.45 | Pass    |
|            |                 |               | 6      | 20.16                 | 3.00       | 21.01     | <=38.45 | Pass    |
|            |                 |               | 13     | 19.99                 | 3.00       | 20.84     | <=38.45 | Pass    |
|            |                 | 25            | 0      | 20.05                 | 3.00       | 20.90     | <=38.45 | Pass    |
|            |                 |               | 0      | 22.05                 | 3.00       | 22.90     | <=38.45 | Pass    |
|            |                 |               | 13     | 22.52                 | 3.00       | 23.37     | <=38.45 | Pass    |
|            | 836.5           | 1             | 24     | 22.53                 | 3.00       | 23.38     | <=38.45 | Pass    |
|            |                 |               | 0      | 21.09                 | 3.00       | 21.94     | <=38.45 | Pass    |
|            |                 |               | 6      | 21.35                 | 3.00       | 22.20     | <=38.45 | Pass    |
|            |                 | 12            | 13     | 21.29                 | 3.00       | 22.14     | <=38.45 | Pass    |
|            |                 |               | 0      | 21.29                 | 3.00       | 22.14     | <=38.45 | Pass    |
|            |                 |               | 0      | 21.14                 | 3.00       | 21.99     | <=38.45 | Pass    |
|            |                 | 1             | 13     | 20.96                 | 3.00       | 21.81     | <=38.45 | Pass    |
|            |                 |               | 24     | 21.26                 | 3.00       | 22.11     | <=38.45 | Pass    |
|            |                 |               | 0      | 19.83                 | 3.00       | 20.68     | <=38.45 | Pass    |
|            | 846.5           | 12            | 6      | 20.10                 | 3.00       | 20.95     | <=38.45 | Pass    |
|            |                 |               | 13     | 20.04                 | 3.00       | 20.89     | <=38.45 | Pass    |
|            |                 |               | 0      | 20.02                 | 3.00       | 20.87     | <=38.45 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.1.4 B5\_10MHz\_ERP

| Band: 5 / Bandwidth: 10MHz / NTN |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 829             | 1             | 0      | 22.58                 | 3.00       | 23.43     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 22.14                 | 3.00       | 22.99     | <=38.45 | Pass    |

|                                              |       |     |    |       |       |       |         |         |      |
|----------------------------------------------|-------|-----|----|-------|-------|-------|---------|---------|------|
|                                              |       |     | 49 | 22.69 | 3.00  | 23.54 | <=38.45 | Pass    |      |
|                                              |       | 25  | 0  | 20.75 | 3.00  | 21.60 | <=38.45 | Pass    |      |
|                                              |       |     | 13 | 20.90 | 3.00  | 21.75 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 21.01 | 3.00  | 21.86 | <=38.45 | Pass    |      |
|                                              |       | 50  | 0  | 20.87 | 3.00  | 21.72 | <=38.45 | Pass    |      |
|                                              | 836.5 | 1   | 0  | 22.59 | 3.00  | 23.44 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 23.53 | 3.00  | 24.38 | <=38.45 | Pass    |      |
|                                              |       |     | 49 | 23.18 | 3.00  | 24.03 | <=38.45 | Pass    |      |
|                                              |       | 25  | 0  | 21.71 | 3.00  | 22.56 | <=38.45 | Pass    |      |
|                                              |       |     | 13 | 22.21 | 3.00  | 23.06 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 22.05 | 3.00  | 22.90 | <=38.45 | Pass    |      |
|                                              |       | 50  | 0  | 22.04 | 3.00  | 22.89 | <=38.45 | Pass    |      |
|                                              | 844   | 1   | 0  | 23.43 | 3.00  | 24.28 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 22.30 | 3.00  | 23.15 | <=38.45 | Pass    |      |
|                                              |       |     | 49 | 22.13 | 3.00  | 22.98 | <=38.45 | Pass    |      |
|                                              |       | 25  | 0  | 21.52 | 3.00  | 22.37 | <=38.45 | Pass    |      |
|                                              |       |     | 13 | 21.14 | 3.00  | 21.99 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 20.80 | 3.00  | 21.65 | <=38.45 | Pass    |      |
|                                              |       | 50  | 0  | 21.16 | 3.00  | 22.01 | <=38.45 | Pass    |      |
|                                              | 16QAM | 829 | 1  | 0     | 21.51 | 3.00  | 22.36   | <=38.45 | Pass |
|                                              |       |     |    | 25    | 21.11 | 3.00  | 21.96   | <=38.45 | Pass |
|                                              |       |     |    | 49    | 21.90 | 3.00  | 22.75   | <=38.45 | Pass |
|                                              |       |     | 25 | 0     | 19.87 | 3.00  | 20.72   | <=38.45 | Pass |
|                                              |       |     |    | 13    | 19.99 | 3.00  | 20.84   | <=38.45 | Pass |
| 25                                           |       |     |    | 20.08 | 3.00  | 20.93 | <=38.45 | Pass    |      |
| 50                                           |       |     | 0  | 21.81 | 3.00  | 22.66 | <=38.45 | Pass    |      |
| 836.5                                        |       | 1   | 0  | 21.58 | 3.00  | 22.43 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 22.47 | 3.00  | 23.32 | <=38.45 | Pass    |      |
|                                              |       |     | 49 | 22.31 | 3.00  | 23.16 | <=38.45 | Pass    |      |
|                                              |       | 25  | 0  | 20.76 | 3.00  | 21.61 | <=38.45 | Pass    |      |
|                                              |       |     | 13 | 21.35 | 3.00  | 22.20 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 21.20 | 3.00  | 22.05 | <=38.45 | Pass    |      |
|                                              |       | 50  | 0  | 22.15 | 3.00  | 23.00 | <=38.45 | Pass    |      |
| 844                                          |       | 1   | 0  | 22.43 | 3.00  | 23.28 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 21.23 | 3.00  | 22.08 | <=38.45 | Pass    |      |
|                                              |       |     | 49 | 21.28 | 3.00  | 22.13 | <=38.45 | Pass    |      |
|                                              |       | 25  | 0  | 20.56 | 3.00  | 21.41 | <=38.45 | Pass    |      |
|                                              |       |     | 13 | 20.21 | 3.00  | 21.06 | <=38.45 | Pass    |      |
|                                              |       |     | 25 | 19.88 | 3.00  | 20.73 | <=38.45 | Pass    |      |
|                                              |       | 50  | 0  | 22.06 | 3.00  | 22.91 | <=38.45 | Pass    |      |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |     |    |       |       |       |         |         |      |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B5\_10MHz

| Band: 5 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 836.5           | 50            | 0      | 20         | 9             | -9.200           | -0.0110               | -2.5 to 2.5 | Pass    |



|  |  |  |  |     |    |         |         |             |      |
|--|--|--|--|-----|----|---------|---------|-------------|------|
|  |  |  |  |     | 19 | -5.400  | -0.0065 | -2.5 to 2.5 | Pass |
|  |  |  |  |     | 30 | -15.000 | -0.0179 | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 19 | -27.600 | -0.0330 | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 19 | -16.500 | -0.0197 | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 19 | -25.900 | -0.0310 | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 19 | -8.500  | -0.0102 | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 19 | -15.600 | -0.0186 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 19 | -21.700 | -0.0259 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 19 | -23.900 | -0.0286 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 19 | -24.800 | -0.0296 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band5\_OBW

| Band: 5 / NTNV  |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 836.5           | 6             | 0      | 1.116                        | /     | Pass    |
|                 | 16QAM      | 836.5           | 6             | 0      | 1.117                        | /     | Pass    |
| 3               | QPSK       | 836.5           | 15            | 0      | 2.724                        | /     | Pass    |
|                 | 16QAM      | 836.5           | 15            | 0      | 2.729                        | /     | Pass    |
| 5               | QPSK       | 836.5           | 25            | 0      | 4.525                        | /     | Pass    |
|                 | 16QAM      | 836.5           | 25            | 0      | 4.529                        | /     | Pass    |
| 10              | QPSK       | 836.5           | 50            | 0      | 9.060                        | /     | Pass    |
|                 | 16QAM      | 836.5           | 50            | 0      | 9.044                        | /     | Pass    |

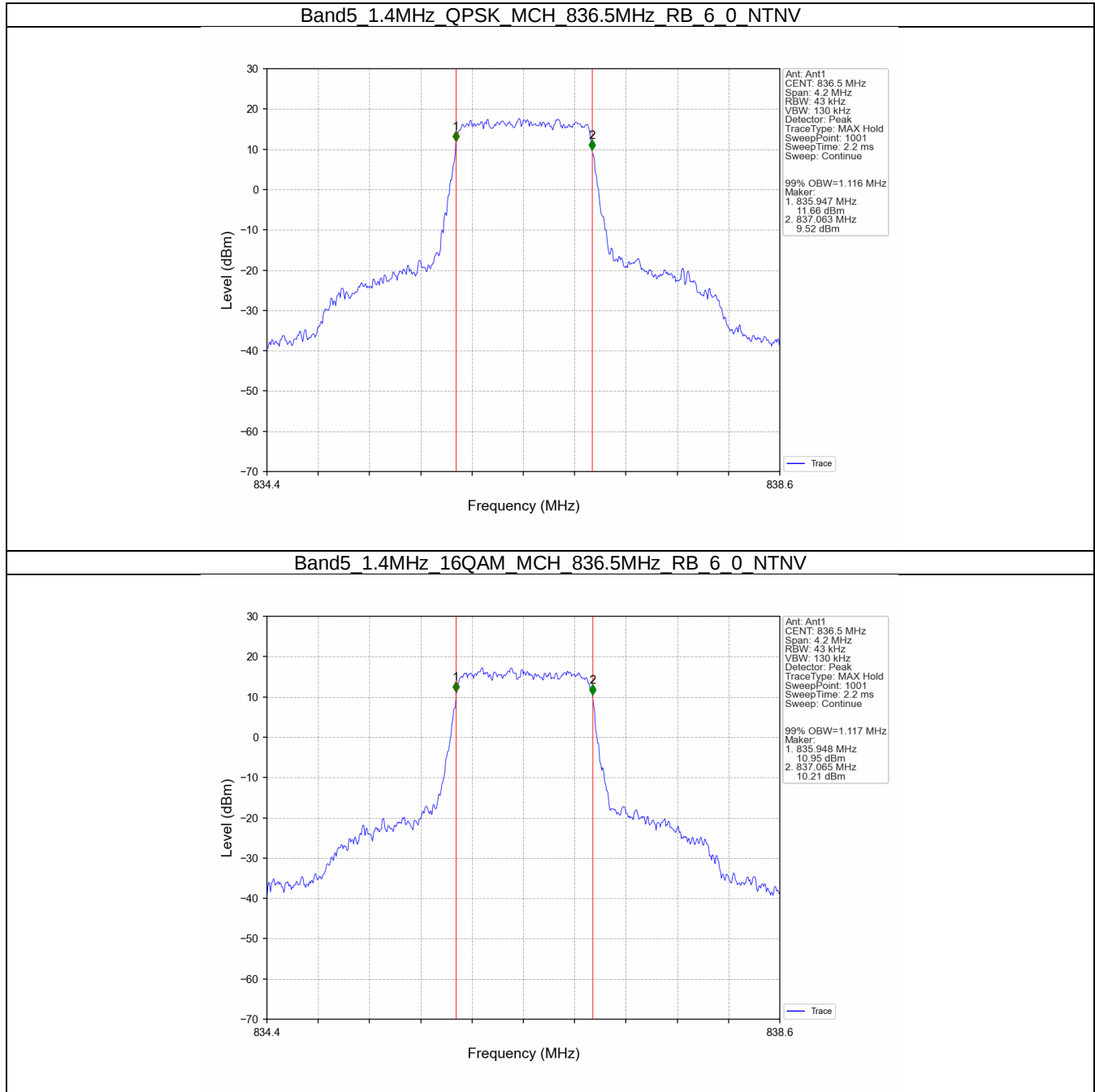
##### 3.1.2 Band5\_XDB

| Band: 5 / NTNV  |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 836.5           | 6             | 0      | 1.314                | /     | Pass    |
|                 | 16QAM      | 836.5           | 6             | 0      | 1.303                | /     | Pass    |
| 3               | QPSK       | 836.5           | 15            | 0      | 3.003                | /     | Pass    |
|                 | 16QAM      | 836.5           | 15            | 0      | 3.013                | /     | Pass    |
| 5               | QPSK       | 836.5           | 25            | 0      | 5.044                | /     | Pass    |
|                 | 16QAM      | 836.5           | 25            | 0      | 4.993                | /     | Pass    |
| 10              | QPSK       | 836.5           | 50            | 0      | 9.887                | /     | Pass    |
|                 | 16QAM      | 836.5           | 50            | 0      | 10.652               | /     | Pass    |



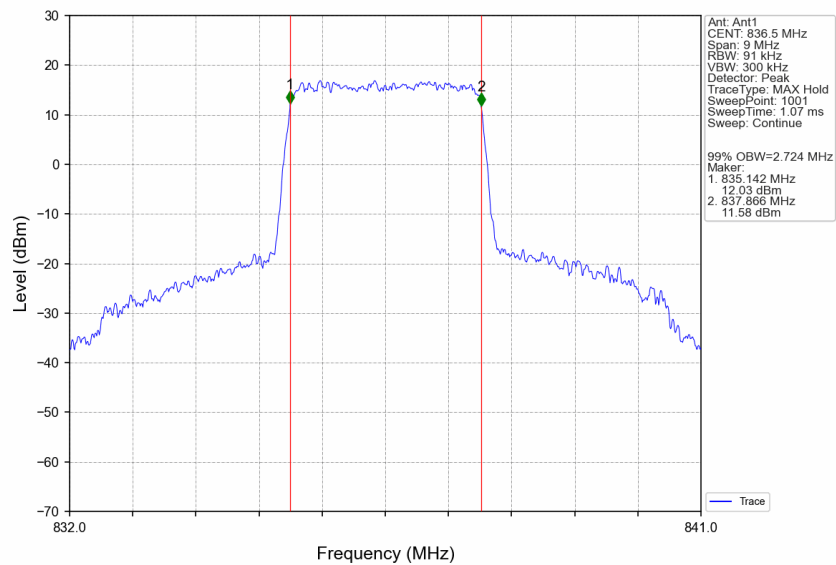
## 3.2 Test Graph

### 3.2.1 Band5\_OBW

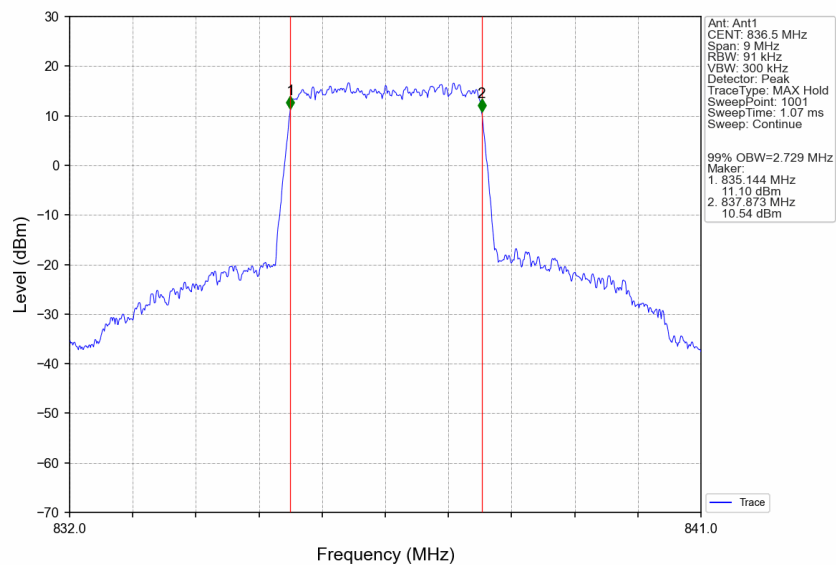




Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

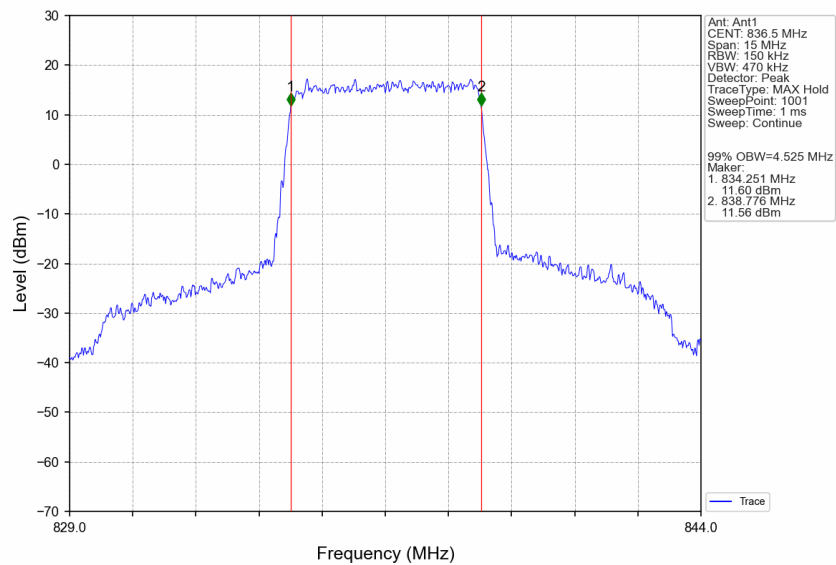


Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

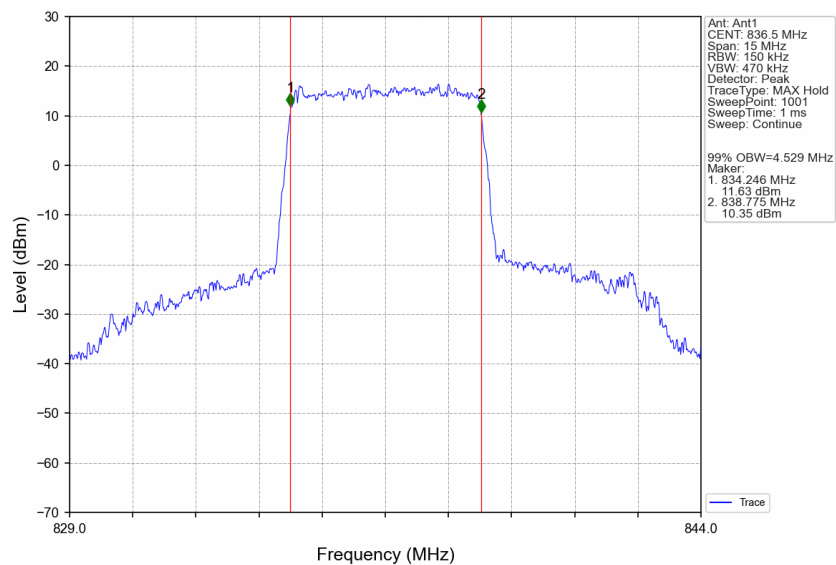




Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

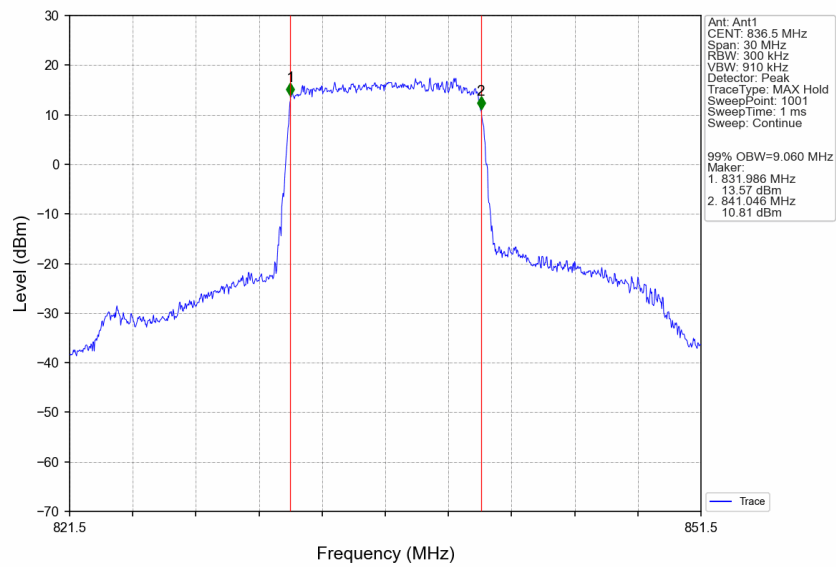


Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

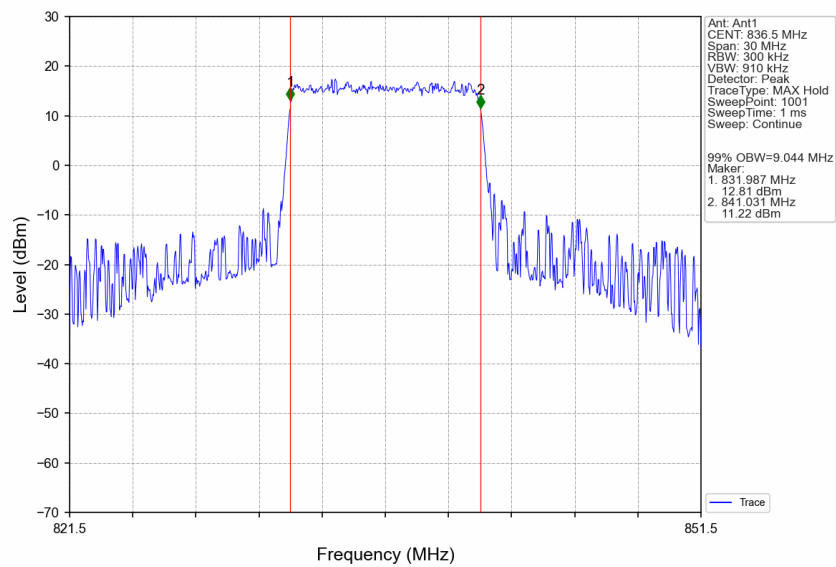




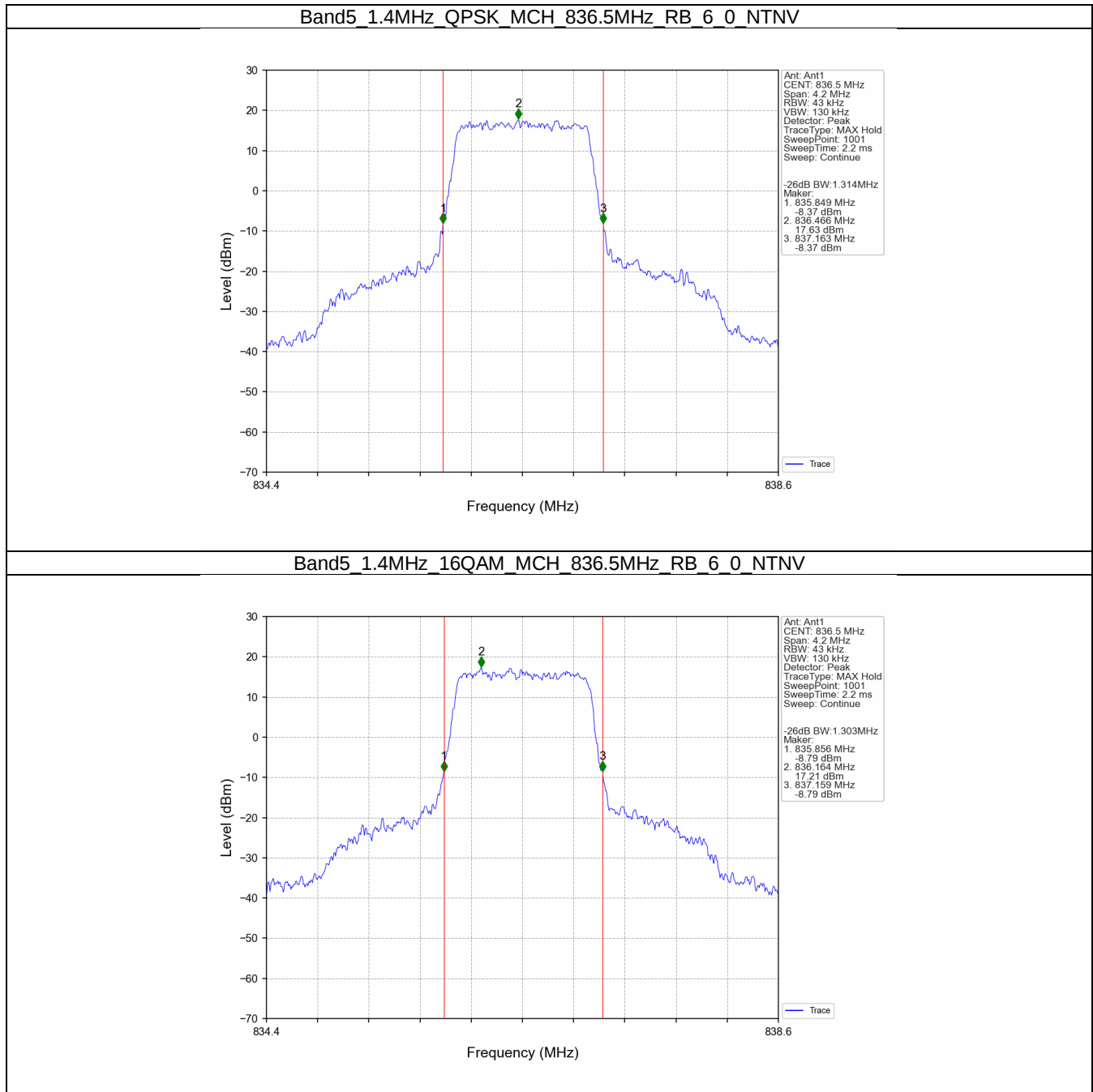
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV

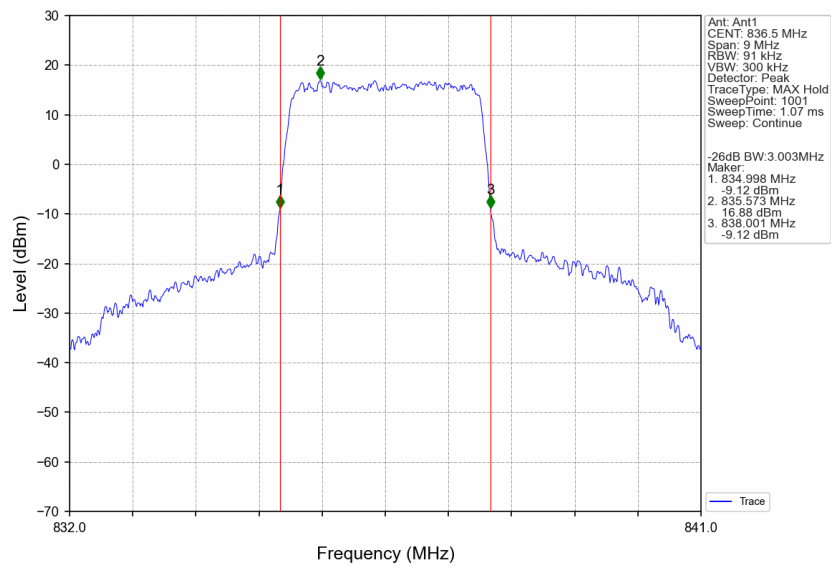


## 3.2.2 Band5\_XDB

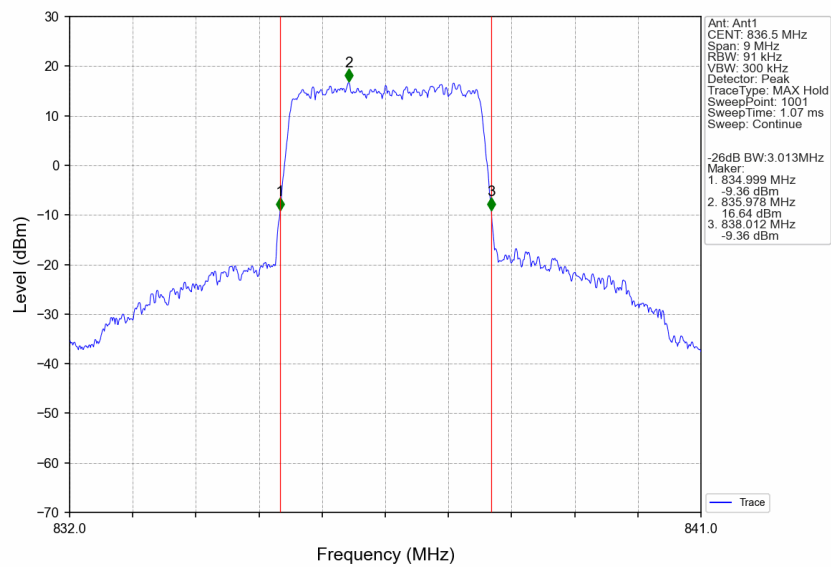




Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

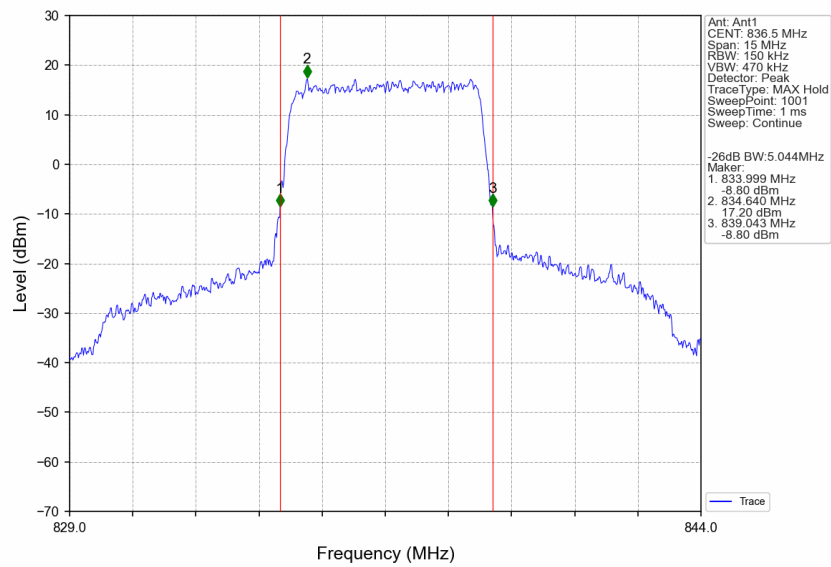


Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

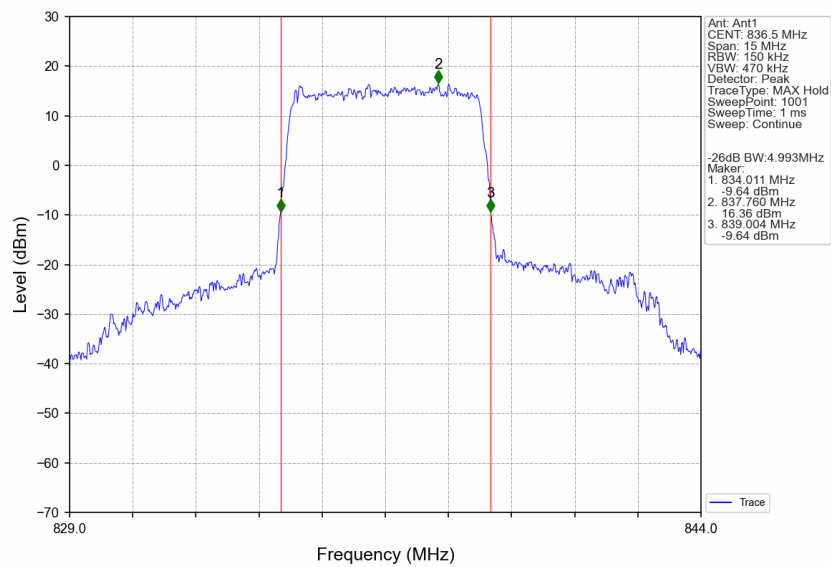




Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

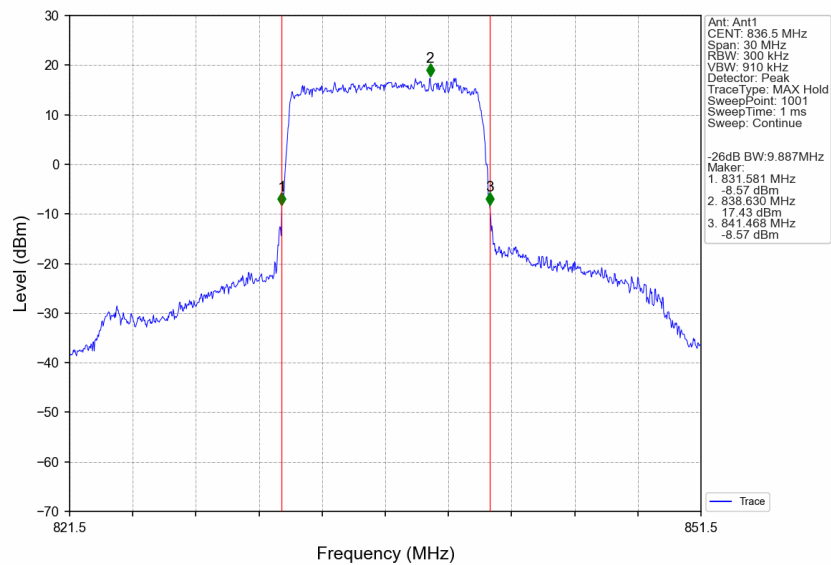


Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

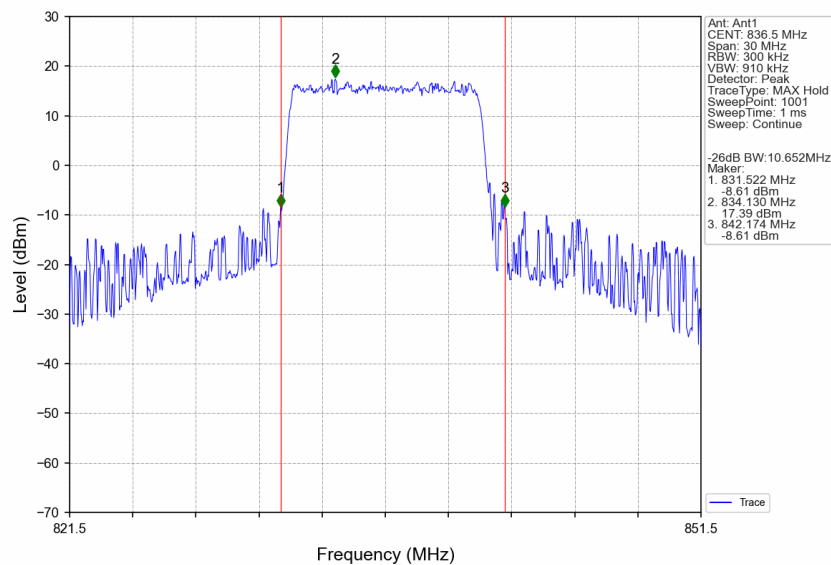




Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV





#### 4. Peak-Average Ratio

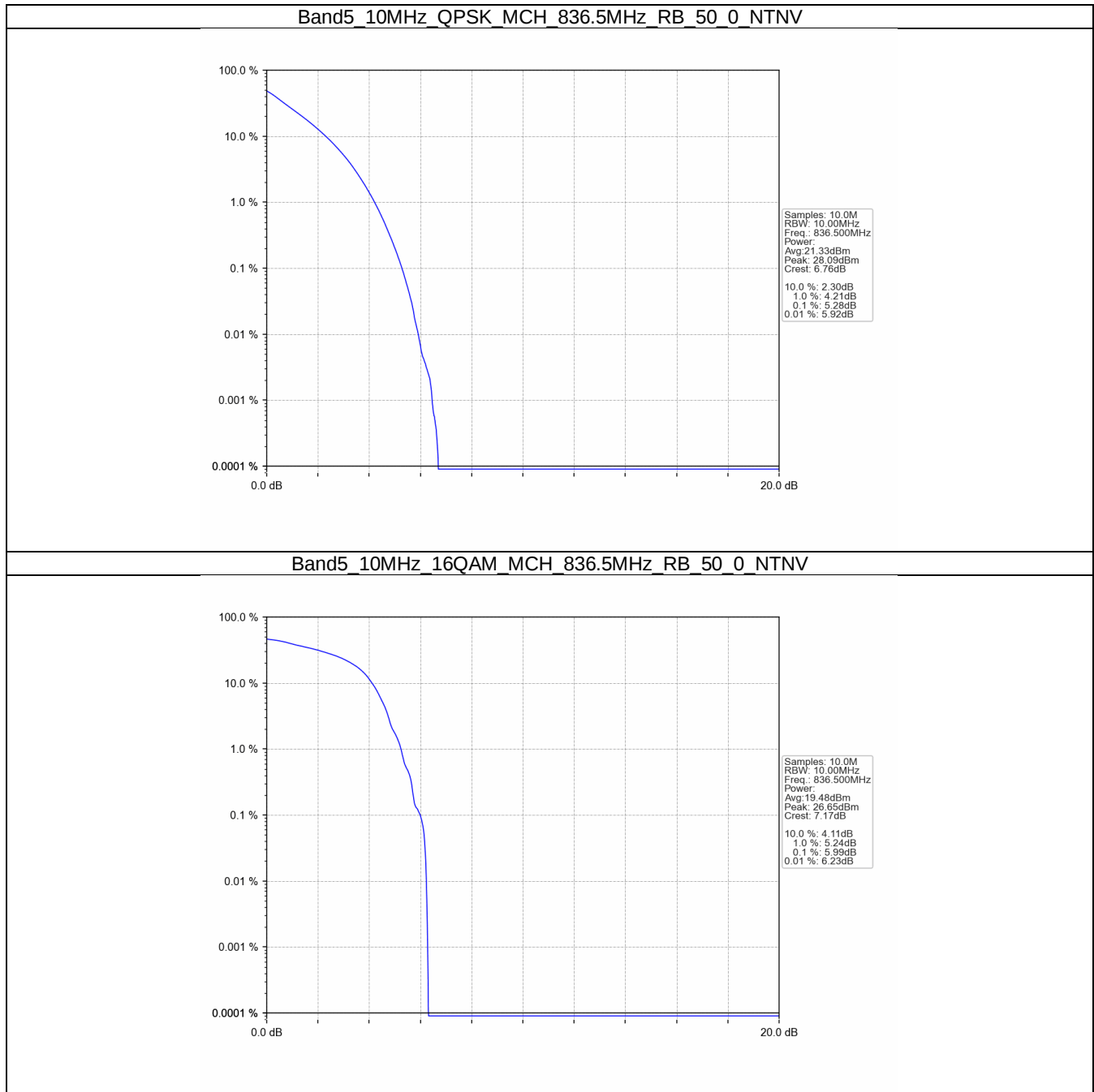
##### 4.1 Test Result

##### 4.1.1 B5\_10MHz

| Band: 5 / Bandwidth: 10MHz / NTNV |                    |               |        |                         |       |         |
|-----------------------------------|--------------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency<br>(MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                    | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 836.5              | 50            | 0      | 5.28                    | <=13  | Pass    |
| 16QAM                             | 836.5              | 50            | 0      | 5.99                    | <=13  | Pass    |

## 4.2 Test Graph

### 4.2.1 B5\_10MHz



## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B5\_1.4MHz

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

#### 5.1.2 B5\_3MHz

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

#### 5.1.3 B5\_5MHz

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

#### 5.1.4 B5\_10MHz

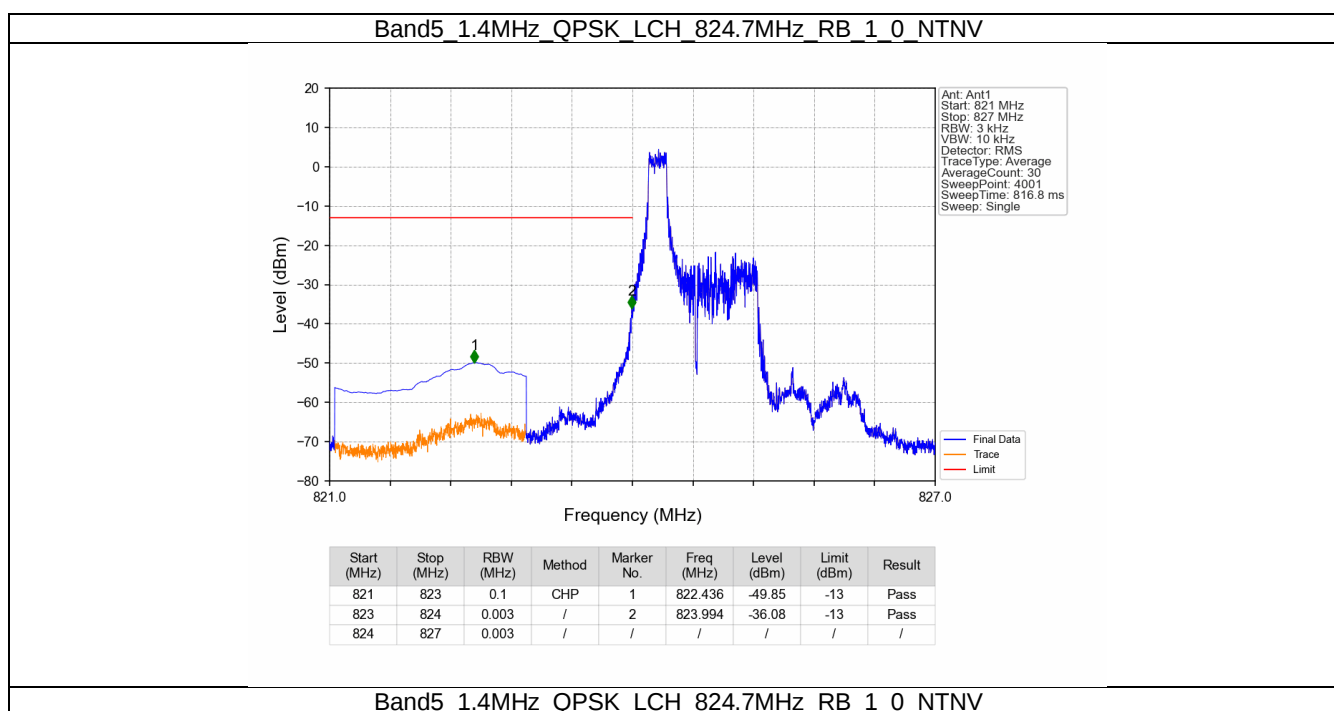
| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB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

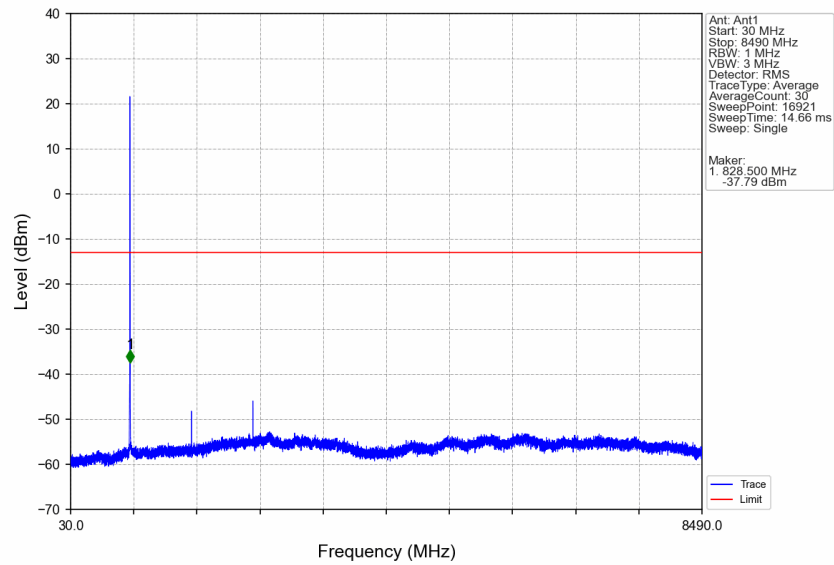


|  |       |    |    |                     |      |
|--|-------|----|----|---------------------|------|
|  |       | 50 | 0  | Refer To Test Graph | Pass |
|  | 836.5 | 1  | 0  | Refer To Test Graph | Pass |
|  | 844   | 1  | 0  | Refer To Test Graph | Pass |
|  |       |    | 49 | Refer To Test Graph | Pass |
|  |       | 50 | 0  | Refer To Test Graph | Pass |

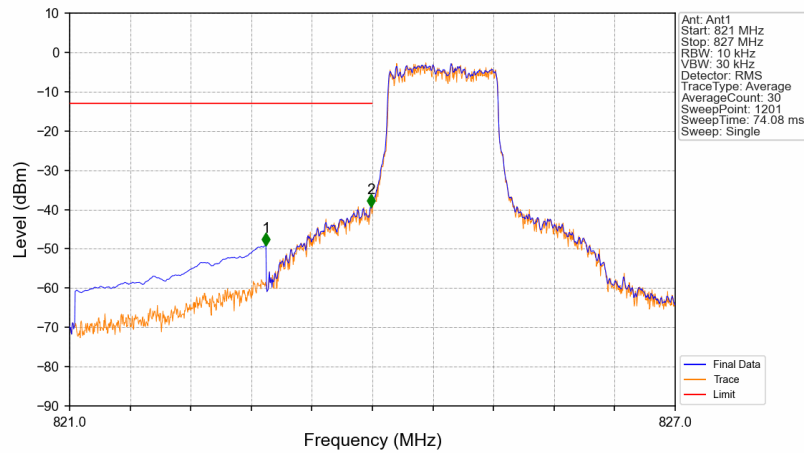
## 5.2 Test Graph

### 5.2.1 B5\_1.4MHz



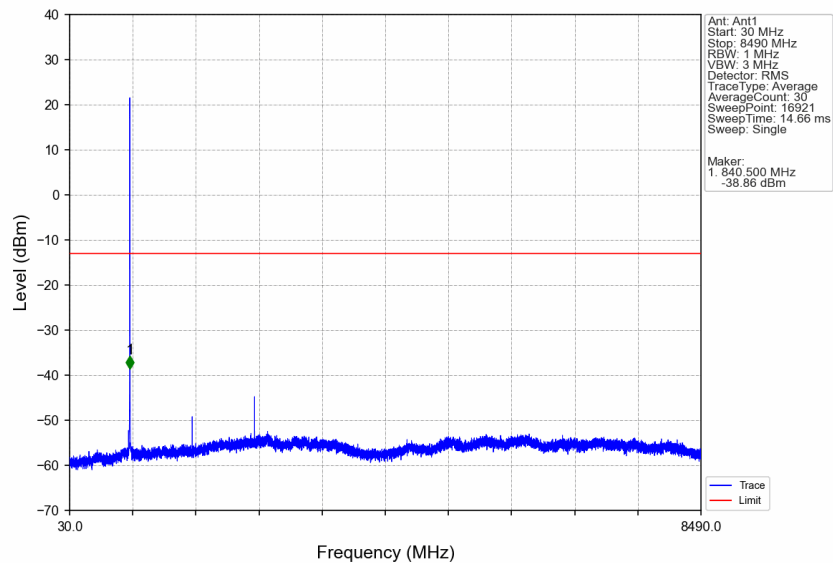


Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

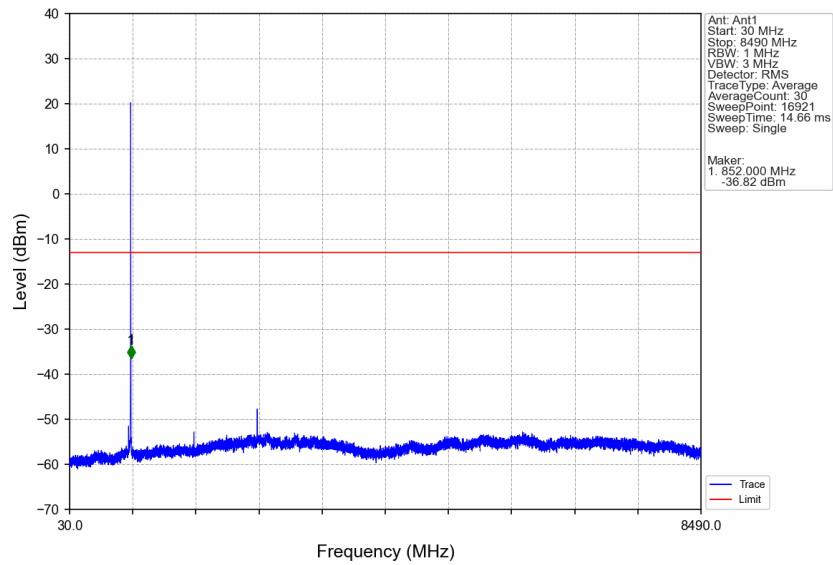


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 821         | 823        | 0.1       | CHP    | 1          | 822.945    | -49.06      | -13         | Pass   |
| 823         | 824        | 0.013     | CHP    | 2          | 823.985    | -39.39      | -13         | Pass   |
| 824         | 827        | 0.013     | CHP    | /          | /          | /           | /           | /      |

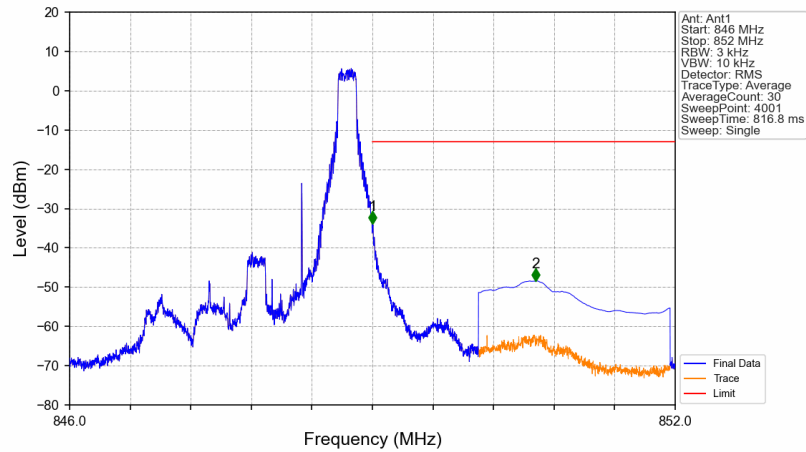
Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_0\_NTNV

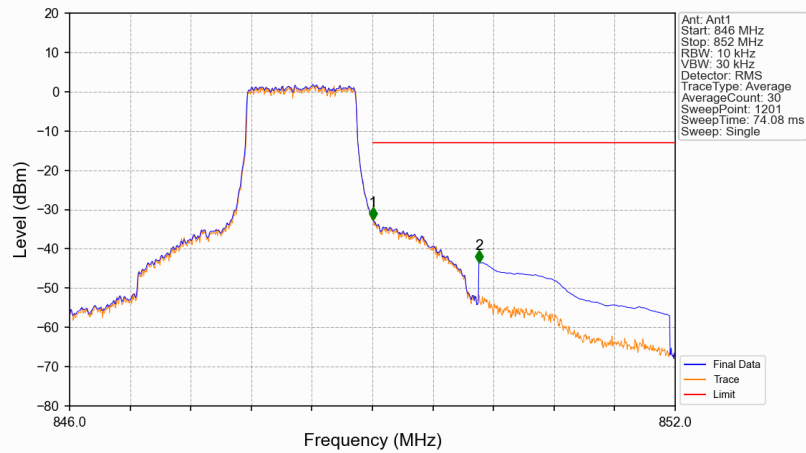


Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



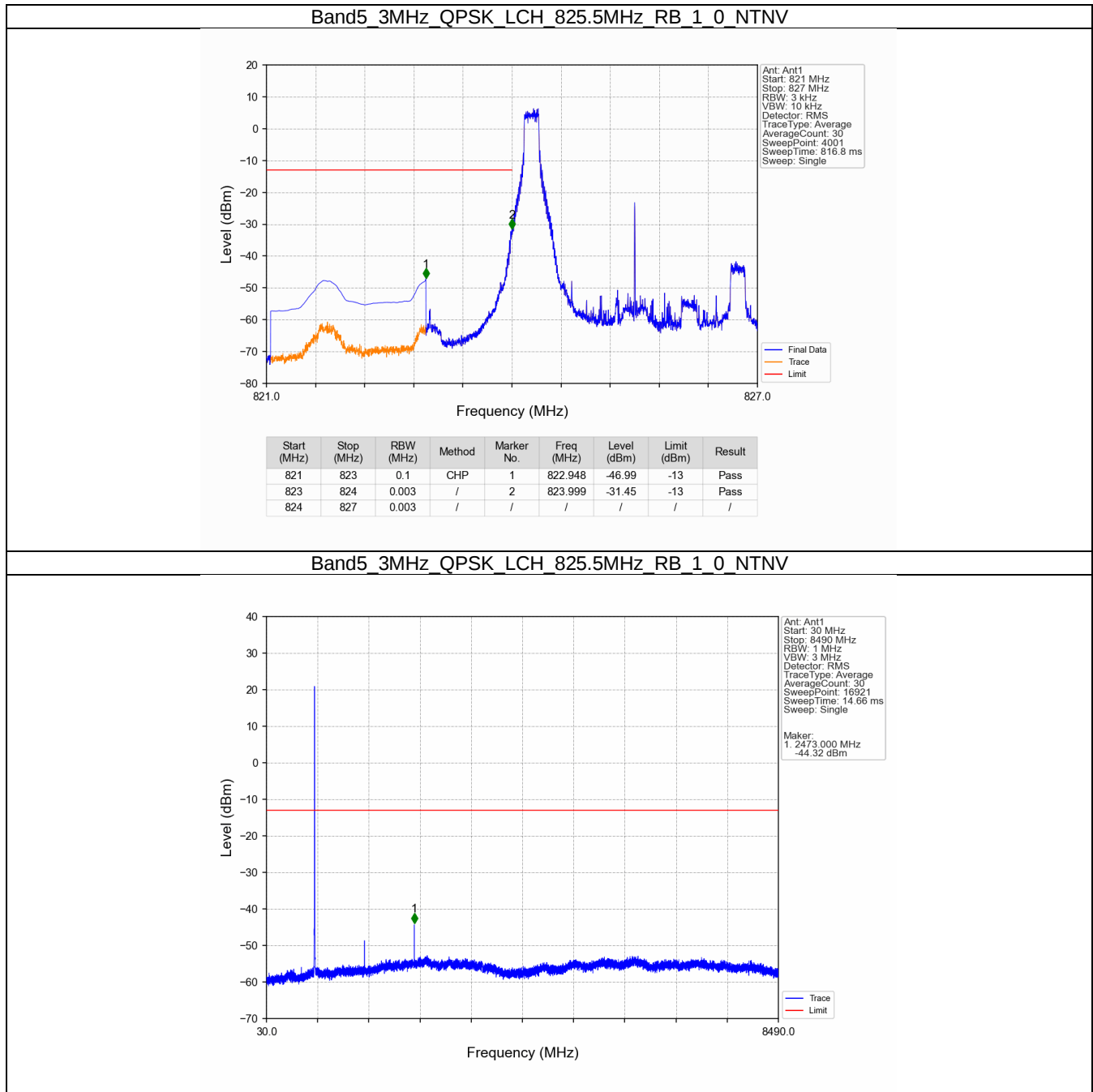
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 846         | 849        | 0.003     | /      | /          | /          | /           | /           | /      |
| 849         | 850        | 0.003     | /      | 1          | 849.003    | -33.80      | -13         | Pass   |
| 850         | 852        | 0.1       | CHP    | 2          | 850.619    | -48.42      | -13         | Pass   |

Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV

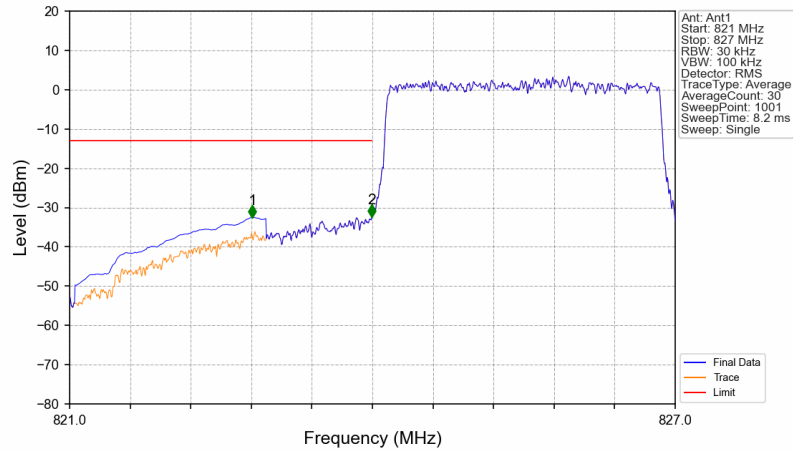


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 846         | 849        | 0.013     | CHP    | /          | /          | /           | /           | /      |
| 849         | 850        | 0.013     | CHP    | 1          | 849.005    | -32.64      | -13         | Pass   |
| 850         | 852        | 0.1       | CHP    | 2          | 850.060    | -43.47      | -13         | Pass   |

## 5.2.2 B5\_3MHz

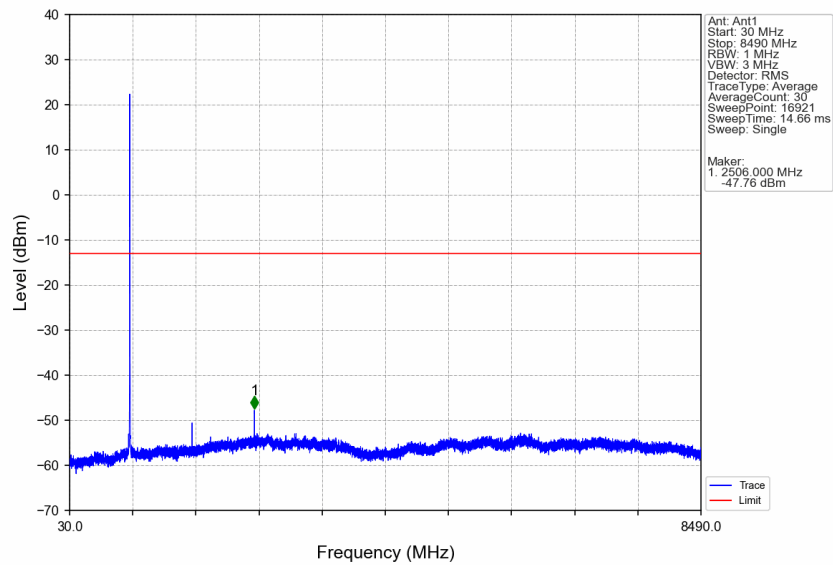


Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

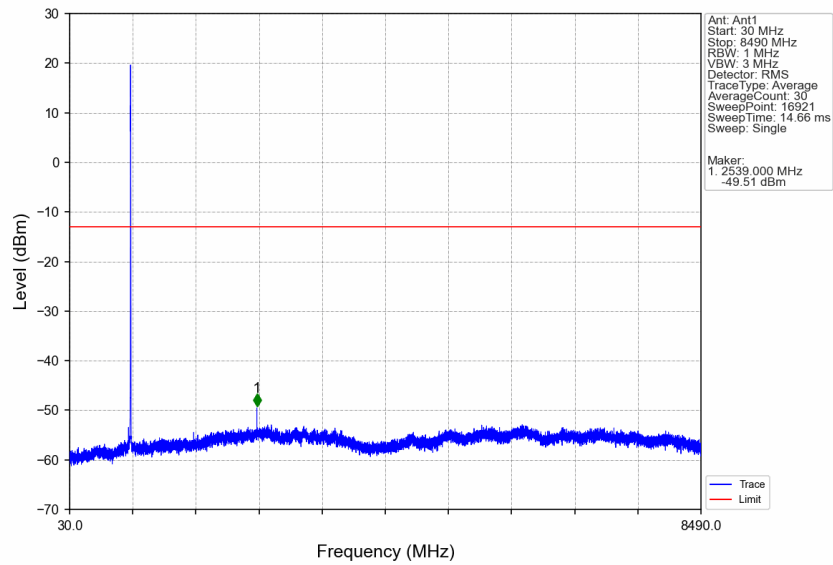


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 821         | 823        | 0.1       | CHP    | 1          | 822.812    | -32.50      | -13         | Pass   |
| 823         | 824        | 0.03      | /      | 2          | 823.994    | -32.33      | -13         | Pass   |
| 824         | 827        | 0.03      | /      | /          | /          | /           | /           | /      |

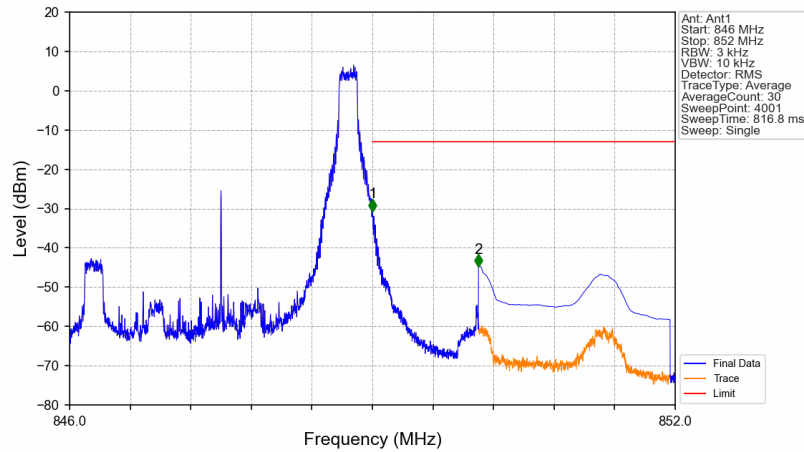
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



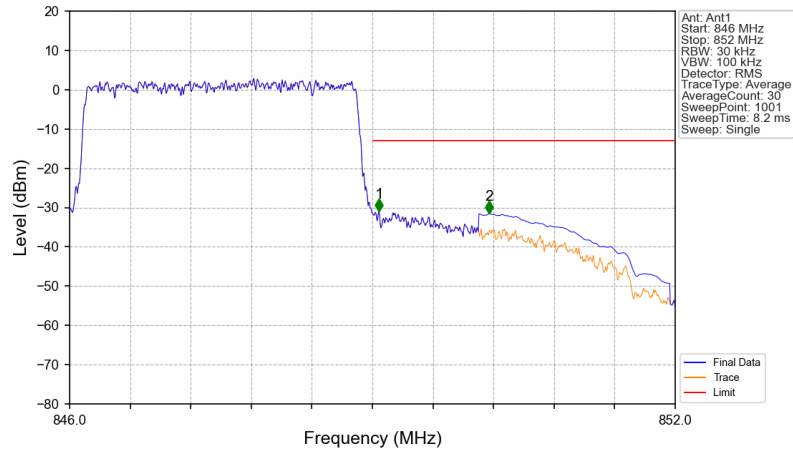
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 846         | 849        | 0.003     | /      | /          | /          | /           | /           | /      |
| 849         | 850        | 0.003     | /      | 1          | 849.001    | -30.68      | -13         | Pass   |
| 850         | 852        | 0.1       | CHP    | 2          | 850.052    | -44.77      | -13         | Pass   |

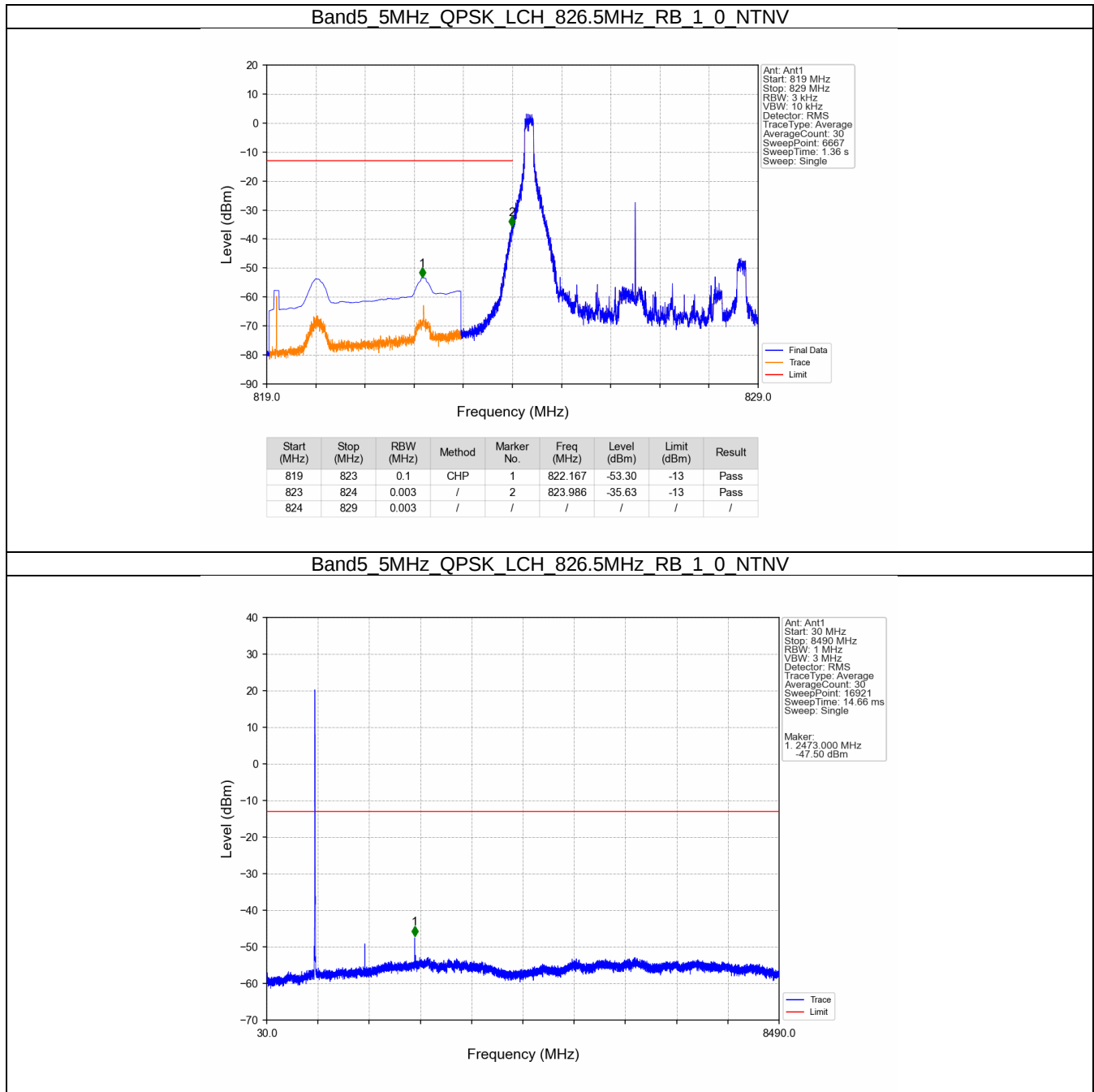


Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

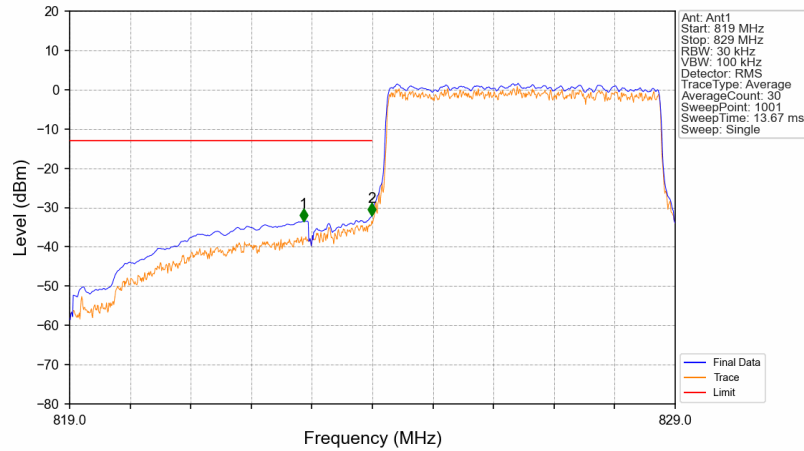


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 846         | 849        | 0.03      | /      | /          | /          | /           | /           | /      |
| 849         | 850        | 0.03      | /      | 1          | 849.066    | -30.87      | -13         | Pass   |
| 850         | 852        | 0.1       | CHP    | 2          | 850.158    | -31.55      | -13         | Pass   |

## 5.2.3 B5\_5MHz

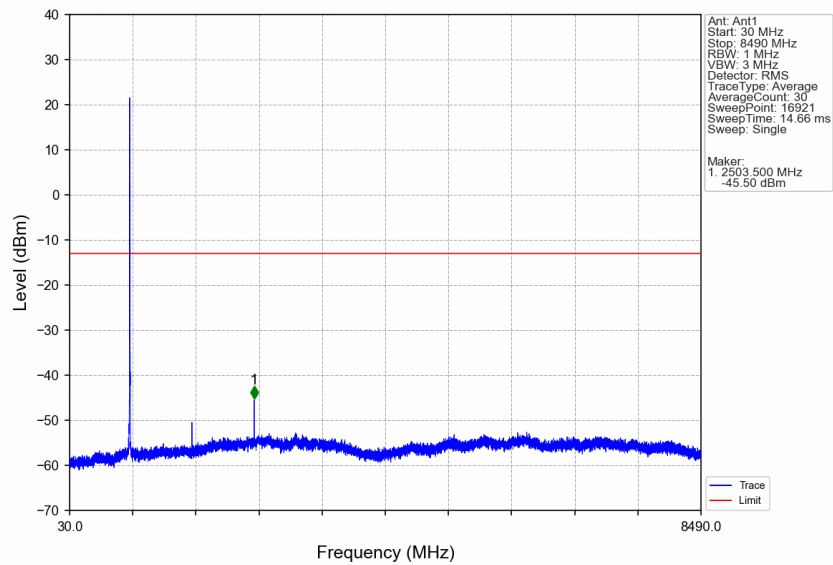


Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

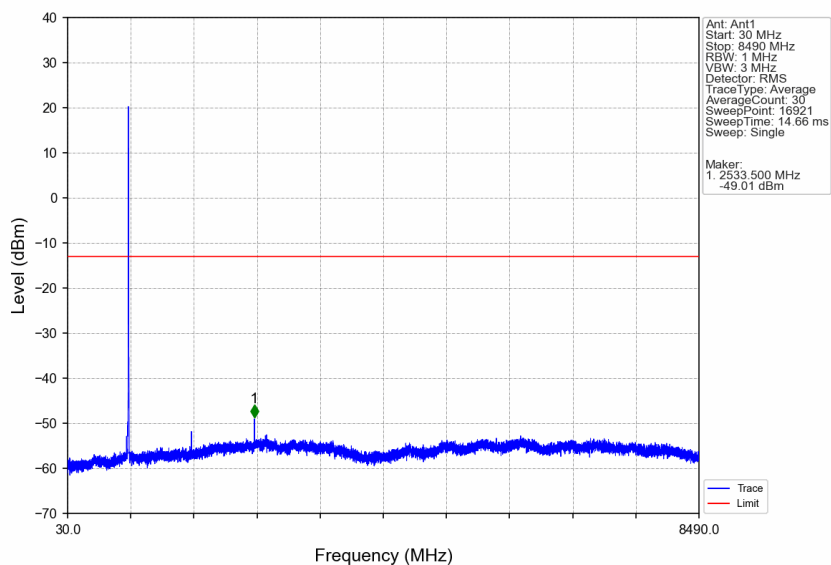


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 819         | 823        | 0.1       | CHP    | 1          | 822.860    | -33.45      | -13         | Pass   |
| 823         | 824        | 0.05      | CHP    | 2          | 823.990    | -32.01      | -13         | Pass   |
| 824         | 829        | 0.05      | CHP    | /          | /          | /           | /           | /      |

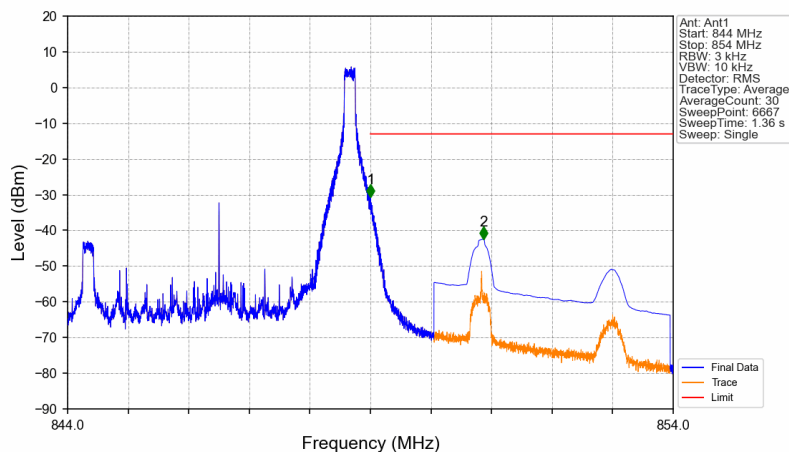
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



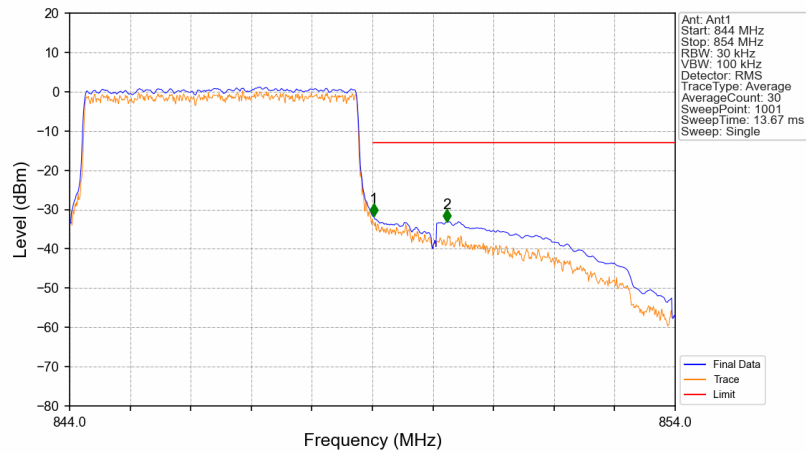
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 844         | 849        | 0.003     | /      | /          | /          | /           | /           | /      |
| 849         | 850        | 0.003     | /      | 1          | 849.001    | -30.71      | -13         | Pass   |
| 850         | 854        | 0.1       | CHP    | 2          | 850.865    | -42.47      | -13         | Pass   |

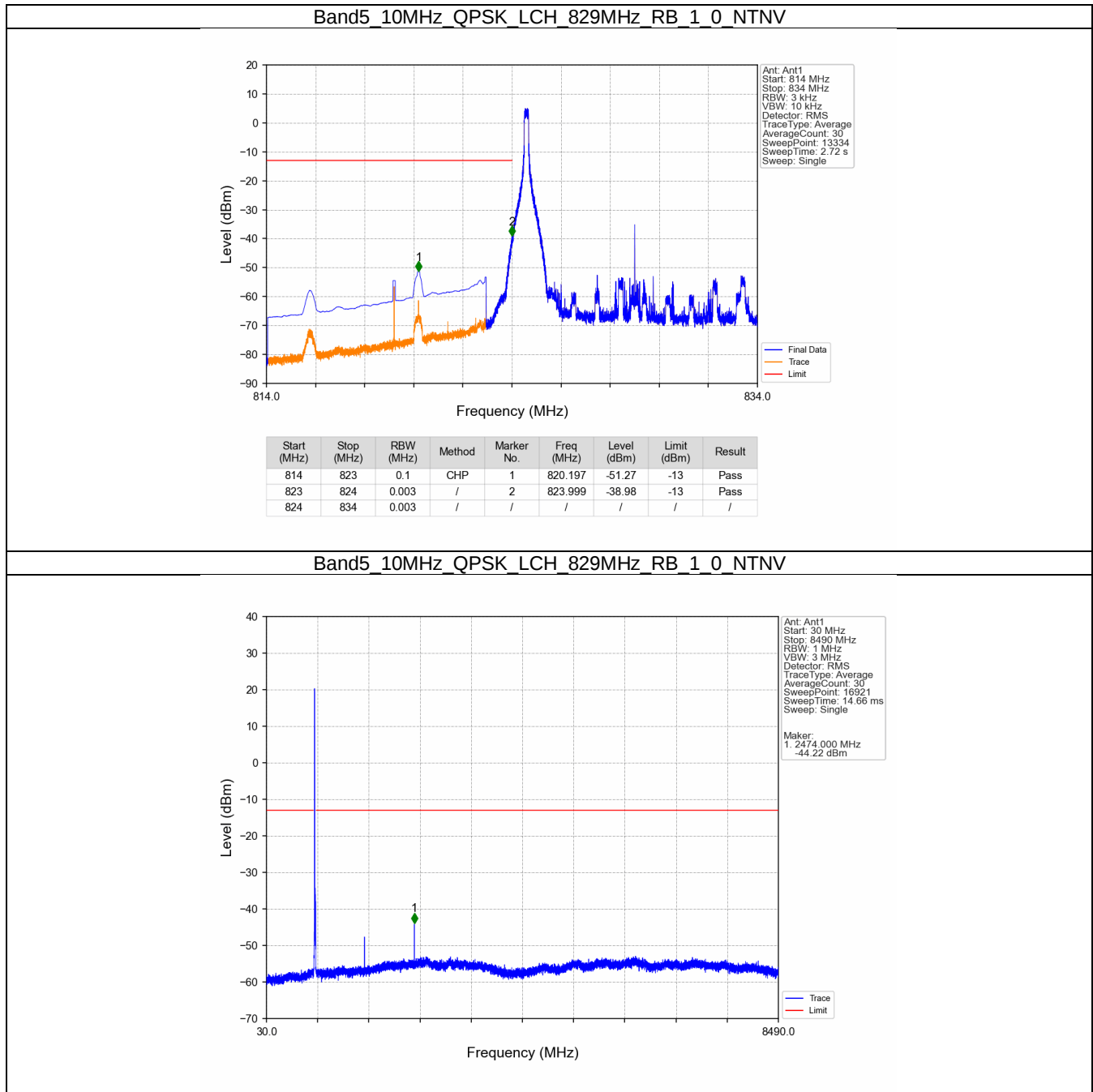


Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



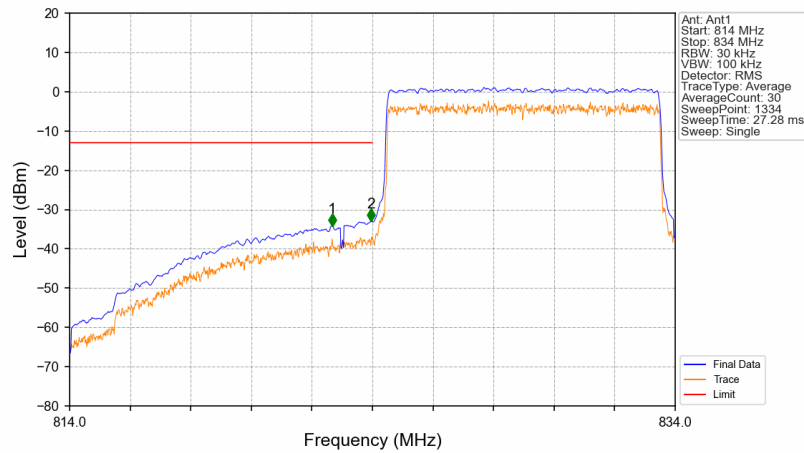
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 844         | 849        | 0.05      | CHP    | /          | /          | /           | /           | /      |
| 849         | 850        | 0.05      | CHP    | 1          | 849.020    | -31.71      | -13         | Pass   |
| 850         | 854        | 0.1       | CHP    | 2          | 850.230    | -33.05      | -13         | Pass   |

## 5.2.4 B5\_10MHz



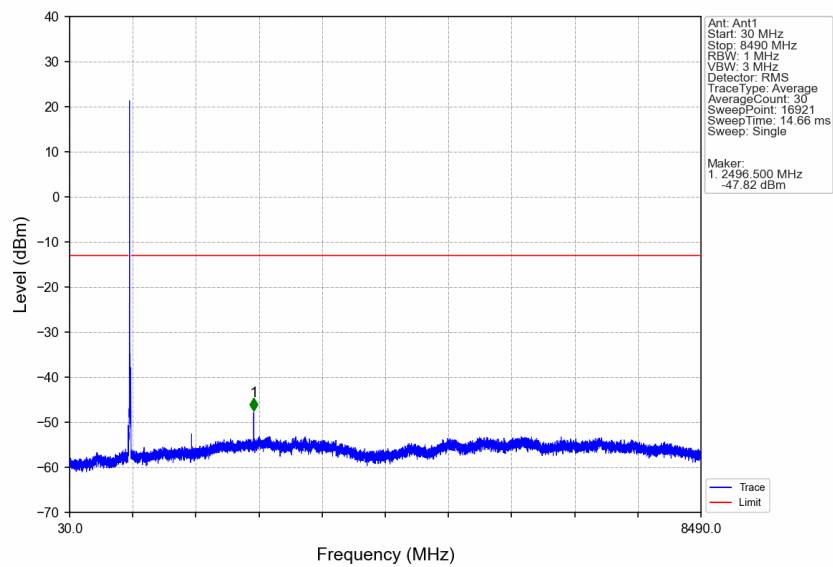


Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV

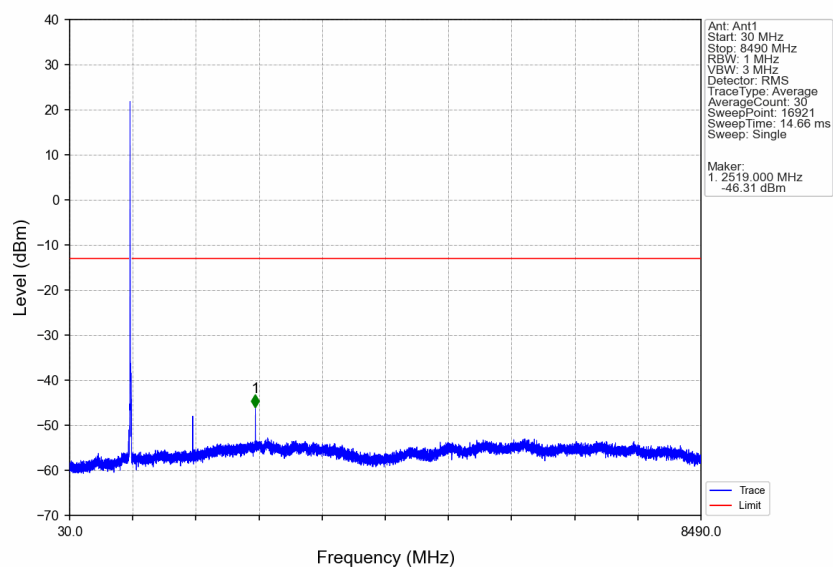


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 814         | 823        | 0.1       | CHP    | 1          | 822.672    | -34.20      | -13         | Pass   |
| 823         | 824        | 0.099     | CHP    | 2          | 823.947    | -33.02      | -13         | Pass   |
| 824         | 834        | 0.099     | CHP    | /          | /          | /           | /           | /      |

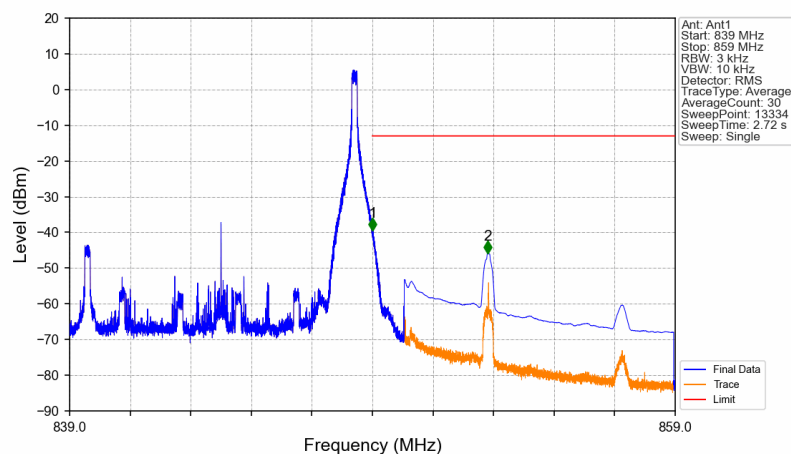
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV



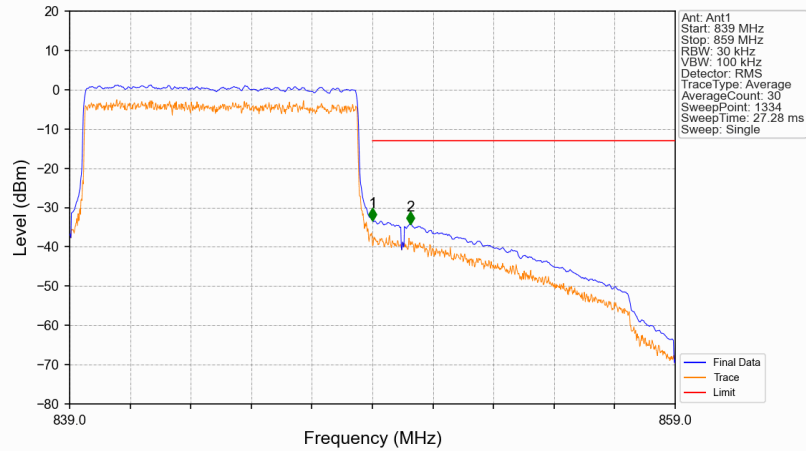
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 839         | 849        | 0.003     | /      | /          | /          | /           | /           | /      |
| 849         | 850        | 0.003     | /      | 1          | 849.002    | -39.42      | -13         | Pass   |
| 850         | 859        | 0.1       | CHP    | 2          | 852.805    | -45.93      | -13         | Pass   |



Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 839         | 849        | 0.099     | CHP    | /          | /          | /           | /           | /      |
| 849         | 850        | 0.099     | CHP    | 1          | 849.008    | -33.28      | -13         | Pass   |
| 850         | 859        | 0.1       | CHP    | 2          | 850.253    | -34.17      | -13         | Pass   |