

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

### 1.1 Test Result

#### 1.1.1 B12\_1.4MHz\_ERP

| Band: 12 / Bandwidth: 1.4MHz / NTNV          |                 |               |        |                       |            |           |         |         |      |
|----------------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|------|
| Modulation                                   | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |      |
|                                              |                 | Size          | Offset |                       |            | Result    | Limit   |         |      |
| QPSK                                         | 699.7           | 1             | 0      | 22.42                 | -0.38      | 19.89     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.47                 | -0.38      | 19.94     | <=34.77 | Pass    |      |
|                                              |                 |               | 5      | 22.50                 | -0.38      | 19.97     | <=34.77 | Pass    |      |
|                                              |                 | 3             | 0      | 22.33                 | -0.38      | 19.80     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.41                 | -0.38      | 19.88     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 22.38                 | -0.38      | 19.85     | <=34.77 | Pass    |      |
|                                              |                 | 6             | 0      | 21.39                 | -0.38      | 18.86     | <=34.77 | Pass    |      |
|                                              |                 | 707.5         | 1      | 0                     | 22.35      | -0.38     | 19.82   | <=34.77 | Pass |
|                                              |                 |               |        | 2                     | 22.35      | -0.38     | 19.82   | <=34.77 | Pass |
|                                              | 5               |               |        | 22.33                 | -0.38      | 19.80     | <=34.77 | Pass    |      |
|                                              | 3               |               | 0      | 22.36                 | -0.38      | 19.83     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.38                 | -0.38      | 19.85     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 22.38                 | -0.38      | 19.85     | <=34.77 | Pass    |      |
|                                              | 6               | 0             | 21.40  | -0.38                 | 18.87      | <=34.77   | Pass    |         |      |
|                                              | 715.3           | 1             | 0      | 22.21                 | -0.38      | 19.68     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.22                 | -0.38      | 19.69     | <=34.77 | Pass    |      |
|                                              |                 |               | 5      | 22.15                 | -0.38      | 19.62     | <=34.77 | Pass    |      |
|                                              |                 | 3             | 0      | 22.18                 | -0.38      | 19.65     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 22.21                 | -0.38      | 19.68     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 22.17                 | -0.38      | 19.64     | <=34.77 | Pass    |      |
|                                              |                 | 6             | 0      | 21.27                 | -0.38      | 18.74     | <=34.77 | Pass    |      |
| 16QAM                                        |                 | 699.7         | 1      | 0                     | 22.16      | -0.38     | 19.63   | <=34.77 | Pass |
|                                              |                 |               |        | 2                     | 22.12      | -0.38     | 19.59   | <=34.77 | Pass |
|                                              | 5               |               |        | 21.43                 | -0.38      | 18.90     | <=34.77 | Pass    |      |
|                                              | 3               |               | 0      | 21.20                 | -0.38      | 18.67     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 21.07                 | -0.38      | 18.54     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 21.09                 | -0.38      | 18.56     | <=34.77 | Pass    |      |
|                                              | 6               |               | 0      | 20.35                 | -0.38      | 17.82     | <=34.77 | Pass    |      |
|                                              | 707.5           |               | 1      | 0                     | 21.38      | -0.38     | 18.85   | <=34.77 | Pass |
|                                              |                 |               |        | 2                     | 21.33      | -0.38     | 18.80   | <=34.77 | Pass |
|                                              |                 | 5             |        | 21.05                 | -0.38      | 18.52     | <=34.77 | Pass    |      |
|                                              |                 | 3             | 0      | 20.96                 | -0.38      | 18.43     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 20.98                 | -0.38      | 18.45     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 20.95                 | -0.38      | 18.42     | <=34.77 | Pass    |      |
|                                              | 6               | 0             | 20.35  | -0.38                 | 17.82      | <=34.77   | Pass    |         |      |
|                                              | 715.3           | 1             | 0      | 21.55                 | -0.38      | 19.02     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 21.54                 | -0.38      | 19.01     | <=34.77 | Pass    |      |
|                                              |                 |               | 5      | 21.12                 | -0.38      | 18.59     | <=34.77 | Pass    |      |
|                                              |                 | 3             | 0      | 21.30                 | -0.38      | 18.77     | <=34.77 | Pass    |      |
|                                              |                 |               | 2      | 21.19                 | -0.38      | 18.66     | <=34.77 | Pass    |      |
|                                              |                 |               | 3      | 21.16                 | -0.38      | 18.63     | <=34.77 | Pass    |      |
|                                              |                 | 6             | 0      | 20.41                 | -0.38      | 17.88     | <=34.77 | Pass    |      |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |                 |               |        |                       |            |           |         |         |      |

#### 1.1.2 B12\_3MHz\_ERP

| Band: 12 / Bandwidth: 3MHz / NTNV            |                 |               |        |                       |            |           |         |         |      |
|----------------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|------|
| Modulation                                   | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |      |
|                                              |                 | Size          | Offset |                       |            | Result    | Limit   |         |      |
| QPSK                                         | 700.5           | 1             | 0      | 22.36                 | -0.38      | 19.83     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 22.39                 | -0.38      | 19.86     | <=34.77 | Pass    |      |
|                                              |                 |               | 14     | 22.30                 | -0.38      | 19.77     | <=34.77 | Pass    |      |
|                                              |                 | 8             | 0      | 21.43                 | -0.38      | 18.90     | <=34.77 | Pass    |      |
|                                              |                 |               | 4      | 21.40                 | -0.38      | 18.87     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 21.40                 | -0.38      | 18.87     | <=34.77 | Pass    |      |
|                                              |                 | 15            | 0      | 21.45                 | -0.38      | 18.92     | <=34.77 | Pass    |      |
|                                              |                 | 707.5         | 1      | 0                     | 22.42      | -0.38     | 19.89   | <=34.77 | Pass |
|                                              |                 |               |        | 7                     | 22.40      | -0.38     | 19.87   | <=34.77 | Pass |
|                                              | 14              |               |        | 22.36                 | -0.38      | 19.83     | <=34.77 | Pass    |      |
|                                              | 8               |               | 0      | 21.39                 | -0.38      | 18.86     | <=34.77 | Pass    |      |
|                                              |                 |               | 4      | 21.35                 | -0.38      | 18.82     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 21.32                 | -0.38      | 18.79     | <=34.77 | Pass    |      |
|                                              | 15              | 0             | 21.34  | -0.38                 | 18.81      | <=34.77   | Pass    |         |      |
|                                              | 714.5           | 1             | 0      | 22.25                 | -0.38      | 19.72     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 22.31                 | -0.38      | 19.78     | <=34.77 | Pass    |      |
|                                              |                 |               | 14     | 22.13                 | -0.38      | 19.60     | <=34.77 | Pass    |      |
|                                              |                 | 8             | 0      | 21.33                 | -0.38      | 18.80     | <=34.77 | Pass    |      |
|                                              |                 |               | 4      | 21.34                 | -0.38      | 18.81     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 21.33                 | -0.38      | 18.80     | <=34.77 | Pass    |      |
|                                              |                 | 15            | 0      | 21.28                 | -0.38      | 18.75     | <=34.77 | Pass    |      |
| 16QAM                                        |                 | 700.5         | 1      | 0                     | 22.20      | -0.38     | 19.67   | <=34.77 | Pass |
|                                              |                 |               |        | 7                     | 22.20      | -0.38     | 19.67   | <=34.77 | Pass |
|                                              | 14              |               |        | 22.19                 | -0.38      | 19.66     | <=34.77 | Pass    |      |
|                                              | 8               |               | 0      | 20.66                 | -0.38      | 18.13     | <=34.77 | Pass    |      |
|                                              |                 |               | 4      | 20.62                 | -0.38      | 18.09     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 20.58                 | -0.38      | 18.05     | <=34.77 | Pass    |      |
|                                              | 15              |               | 0      | 20.53                 | -0.38      | 18.00     | <=34.77 | Pass    |      |
|                                              | 707.5           | 1             | 0      | 21.62                 | -0.38      | 19.09     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 21.14                 | -0.38      | 18.61     | <=34.77 | Pass    |      |
|                                              |                 |               | 14     | 21.22                 | -0.38      | 18.69     | <=34.77 | Pass    |      |
|                                              |                 | 8             | 0      | 20.54                 | -0.38      | 18.01     | <=34.77 | Pass    |      |
|                                              |                 |               | 4      | 20.52                 | -0.38      | 17.99     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 20.50                 | -0.38      | 17.97     | <=34.77 | Pass    |      |
|                                              | 15              | 0             | 20.35  | -0.38                 | 17.82      | <=34.77   | Pass    |         |      |
|                                              | 714.5           | 1             | 0      | 21.69                 | -0.38      | 19.16     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 21.60                 | -0.38      | 19.07     | <=34.77 | Pass    |      |
|                                              |                 |               | 14     | 21.69                 | -0.38      | 19.16     | <=34.77 | Pass    |      |
|                                              |                 | 8             | 0      | 20.45                 | -0.38      | 17.92     | <=34.77 | Pass    |      |
|                                              |                 |               | 4      | 20.43                 | -0.38      | 17.90     | <=34.77 | Pass    |      |
|                                              |                 |               | 7      | 20.38                 | -0.38      | 17.85     | <=34.77 | Pass    |      |
|                                              |                 | 15            | 0      | 20.32                 | -0.38      | 17.79     | <=34.77 | Pass    |      |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |                 |               |        |                       |            |           |         |         |      |

### 1.1.3 B12\_5MHz\_ERP

| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 701.5           | 1             | 0      | 22.44                 | -0.38      | 19.91     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 22.42                 | -0.38      | 19.89     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 22.41                 | -0.38      | 19.88     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 21.47                 | -0.38      | 18.94     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 21.49                 | -0.38      | 18.96     | <=34.77 | Pass    |
|                                   |                 |               |        |                       |            |           |         |         |

|                                              |       |    |    |       |       |       |         |      |
|----------------------------------------------|-------|----|----|-------|-------|-------|---------|------|
|                                              |       |    | 13 | 21.44 | -0.38 | 18.91 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 21.44 | -0.38 | 18.91 | <=34.77 | Pass |
|                                              | 707.5 | 1  | 0  | 22.41 | -0.38 | 19.88 | <=34.77 | Pass |
|                                              |       |    | 13 | 22.38 | -0.38 | 19.85 | <=34.77 | Pass |
|                                              |       |    | 24 | 22.39 | -0.38 | 19.86 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 21.43 | -0.38 | 18.90 | <=34.77 | Pass |
|                                              |       |    | 6  | 21.36 | -0.38 | 18.83 | <=34.77 | Pass |
|                                              |       |    | 13 | 21.39 | -0.38 | 18.86 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 21.40 | -0.38 | 18.87 | <=34.77 | Pass |
|                                              | 713.5 | 1  | 0  | 22.45 | -0.38 | 19.92 | <=34.77 | Pass |
|                                              |       |    | 13 | 22.41 | -0.38 | 19.88 | <=34.77 | Pass |
|                                              |       |    | 24 | 22.31 | -0.38 | 19.78 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 21.43 | -0.38 | 18.90 | <=34.77 | Pass |
|                                              |       |    | 6  | 21.41 | -0.38 | 18.88 | <=34.77 | Pass |
|                                              |       |    | 13 | 21.41 | -0.38 | 18.88 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 21.39 | -0.38 | 18.86 | <=34.77 | Pass |
| 16QAM                                        | 701.5 | 1  | 0  | 21.12 | -0.38 | 18.59 | <=34.77 | Pass |
|                                              |       |    | 13 | 21.13 | -0.38 | 18.60 | <=34.77 | Pass |
|                                              |       |    | 24 | 21.07 | -0.38 | 18.54 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 20.51 | -0.38 | 17.98 | <=34.77 | Pass |
|                                              |       |    | 6  | 20.50 | -0.38 | 17.97 | <=34.77 | Pass |
|                                              |       |    | 13 | 20.44 | -0.38 | 17.91 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 20.45 | -0.38 | 17.92 | <=34.77 | Pass |
|                                              | 707.5 | 1  | 0  | 21.23 | -0.38 | 18.70 | <=34.77 | Pass |
|                                              |       |    | 13 | 21.20 | -0.38 | 18.67 | <=34.77 | Pass |
|                                              |       |    | 24 | 21.27 | -0.38 | 18.74 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 20.54 | -0.38 | 18.01 | <=34.77 | Pass |
|                                              |       |    | 6  | 20.53 | -0.38 | 18.00 | <=34.77 | Pass |
|                                              |       |    | 13 | 20.53 | -0.38 | 18.00 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 20.45 | -0.38 | 17.92 | <=34.77 | Pass |
|                                              | 713.5 | 1  | 0  | 20.62 | -0.38 | 18.09 | <=34.77 | Pass |
|                                              |       |    | 13 | 20.55 | -0.38 | 18.02 | <=34.77 | Pass |
|                                              |       |    | 24 | 20.63 | -0.38 | 18.10 | <=34.77 | Pass |
|                                              |       | 12 | 0  | 20.46 | -0.38 | 17.93 | <=34.77 | Pass |
|                                              |       |    | 6  | 20.43 | -0.38 | 17.90 | <=34.77 | Pass |
|                                              |       |    | 13 | 20.40 | -0.38 | 17.87 | <=34.77 | Pass |
|                                              |       | 25 | 0  | 20.46 | -0.38 | 17.93 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |    |    |       |       |       |         |      |

#### 1.1.4 B12\_10MHz\_ERP

| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 704             | 1             | 0      | 22.43                 | -0.38      | 19.90     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.40                 | -0.38      | 19.87     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 22.36                 | -0.38      | 19.83     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 21.46                 | -0.38      | 18.93     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 21.41                 | -0.38      | 18.88     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 21.48                 | -0.38      | 18.95     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 21.46                 | -0.38      | 18.93     | <=34.77 | Pass    |
|                                    | 707.5           | 1             | 0      | 22.36                 | -0.38      | 19.83     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.33                 | -0.38      | 19.80     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 22.34                 | -0.38      | 19.81     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 21.50                 | -0.38      | 18.97     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 21.43                 | -0.38      | 18.90     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 21.47                 | -0.38      | 18.94     | <=34.77 | Pass    |

|       |       |     |    |       |       |       |         |      |
|-------|-------|-----|----|-------|-------|-------|---------|------|
| 16QAM | 711   | 50  | 0  | 21.43 | -0.38 | 18.90 | <=34.77 | Pass |
|       |       |     | 0  | 22.58 | -0.38 | 20.05 | <=34.77 | Pass |
|       |       | 1   | 25 | 22.51 | -0.38 | 19.98 | <=34.77 | Pass |
|       |       |     | 49 | 22.43 | -0.38 | 19.90 | <=34.77 | Pass |
|       |       |     | 0  | 21.41 | -0.38 | 18.88 | <=34.77 | Pass |
|       |       | 25  | 13 | 21.42 | -0.38 | 18.89 | <=34.77 | Pass |
|       |       |     | 25 | 21.44 | -0.38 | 18.91 | <=34.77 | Pass |
|       |       |     | 50 | 21.44 | -0.38 | 18.91 | <=34.77 | Pass |
|       |       | 704 | 0  | 22.25 | -0.38 | 19.72 | <=34.77 | Pass |
|       |       |     | 25 | 22.23 | -0.38 | 19.70 | <=34.77 | Pass |
|       |       |     | 49 | 22.18 | -0.38 | 19.65 | <=34.77 | Pass |
|       |       |     | 0  | 20.47 | -0.38 | 17.94 | <=34.77 | Pass |
|       |       |     | 13 | 20.41 | -0.38 | 17.88 | <=34.77 | Pass |
|       |       |     | 25 | 20.50 | -0.38 | 17.97 | <=34.77 | Pass |
|       |       |     | 50 | 20.43 | -0.38 | 17.90 | <=34.77 | Pass |
|       | 707.5 | 1   | 0  | 21.82 | -0.38 | 19.29 | <=34.77 | Pass |
|       |       |     | 25 | 21.81 | -0.38 | 19.28 | <=34.77 | Pass |
|       |       |     | 49 | 21.81 | -0.38 | 19.28 | <=34.77 | Pass |
|       |       | 25  | 0  | 20.51 | -0.38 | 17.98 | <=34.77 | Pass |
|       |       |     | 13 | 20.45 | -0.38 | 17.92 | <=34.77 | Pass |
|       |       |     | 25 | 20.47 | -0.38 | 17.94 | <=34.77 | Pass |
|       |       |     | 50 | 20.48 | -0.38 | 17.95 | <=34.77 | Pass |
|       | 711   | 1   | 0  | 21.09 | -0.38 | 18.56 | <=34.77 | Pass |
|       |       |     | 25 | 21.09 | -0.38 | 18.56 | <=34.77 | Pass |
|       |       |     | 49 | 21.06 | -0.38 | 18.53 | <=34.77 | Pass |
|       |       | 25  | 0  | 20.53 | -0.38 | 18.00 | <=34.77 | Pass |
|       |       |     | 13 | 20.57 | -0.38 | 18.04 | <=34.77 | Pass |
|       |       |     | 25 | 20.49 | -0.38 | 17.96 | <=34.77 | Pass |
|       |       |     | 50 | 20.51 | -0.38 | 17.98 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|------------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                   | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                              |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                         | 699.7           | 6             | 0      | 20         | 3.27          | 1.531            | 0.0022                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | 0.987            | 0.0014                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.43          | 0.844            | 0.0012                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.85          | 1.273            | 0.0018                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.85          | 1.116            | 0.0016                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.85          | 1.917            | 0.0027                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.85          | 1.087            | 0.0016                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.85          | 1.187            | 0.0017                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.85          | 0.243            | 0.0003                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.85          | 0.858            | 0.0012                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.85          | 0.730            | 0.0010                | -2.5 to 2.5 | Pass    |
|                              | 707.5           | 6             | 0      | 20         | 3.27          | 0.772            | 0.0011                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | 1.159            | 0.0016                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.43          | 0.429            | 0.0006                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.85          | 0.629            | 0.0009                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.85          | 0.129            | 0.0002                | -2.5 to 2.5 | Pass    |

|       |       |   |   |     |      |        |         |             |      |
|-------|-------|---|---|-----|------|--------|---------|-------------|------|
|       |       |   |   | -10 | 3.85 | 0.458  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | 0.072  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 0.186  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 0.429  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | 0.143  | 0.0002  | -2.5 to 2.5 | Pass |
|       | 715.3 | 6 | 0 | 50  | 3.85 | 0.243  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |   |   | 20  | 3.27 | 1.402  | 0.0020  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | 2.346  | 0.0033  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | 1.488  | 0.0021  | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | 1.388  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | 1.373  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | 1.330  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | 1.388  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 1.230  | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 1.702  | 0.0024  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | 2.117  | 0.0030  | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | 1.731  | 0.0024  | -2.5 to 2.5 | Pass |
| 16QAM | 699.7 | 6 | 0 | 20  | 3.27 | 0.458  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | 1.016  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | 0.544  | 0.0008  | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | 0.458  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | 1.116  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | 1.101  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | 0.858  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 1.030  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 1.345  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | 0.286  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | 0.486  | 0.0007  | -2.5 to 2.5 | Pass |
|       | 707.5 | 6 | 0 | 20  | 3.27 | 0.286  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | -0.415 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | -0.329 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | 0.372  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | -0.129 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | -0.043 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | 0.129  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 0.014  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | -0.515 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | -0.887 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | 0.072  | 0.0001  | -2.5 to 2.5 | Pass |
|       | 715.3 | 6 | 0 | 20  | 3.27 | -0.086 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | 0.114  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | -0.143 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | 0.958  | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | 0.157  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | -0.072 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | -0.057 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 0.129  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 0.844  | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | 0.272  | 0.0004  | -2.5 to 2.5 | Pass |

## 2.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 700.5           | 15            | 0      | 20         | 3.27          | -0.772           | -0.0011               | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
|       |       |    |   |     | 3.85 | -0.272 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.615 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -0.644 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.572 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -1.073 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.043  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.544 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 0.143  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.114 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.157  | 0.0002  | -2.5 to 2.5 | Pass |
|       | 707.5 | 15 | 0 | 20  | 3.27 | -0.544 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.944 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.744 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -1.144 | -0.0016 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -1.101 | -0.0016 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -1.459 | -0.0021 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -1.531 | -0.0022 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.987 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -0.772 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.501 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -1.402 | -0.0020 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.27 | 0.315  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.744  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 0.672  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 0.472  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 0.186  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.014  | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.329  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 0.615  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 0.472  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 0.243  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.443  | 0.0006  | -2.5 to 2.5 | Pass |
| 16QAM | 700.5 | 15 | 0 | 20  | 3.27 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -1.001 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -0.916 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.944 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -1.159 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -0.916 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.644 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -1.144 | -0.0016 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.658 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.858 | -0.0012 | -2.5 to 2.5 | Pass |
|       | 707.5 | 15 | 0 | 20  | 3.27 | -0.758 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.715 | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 0.086  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 0.043  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.143 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -0.014 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -0.086 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.358 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.744 | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.072 | -0.0001 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.27 | -0.315 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.358 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -0.172 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.572 | -0.0008 | -2.5 to 2.5 | Pass |

|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  | -10 | 3.85 | -0.186 | -0.0003 | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.85 | -0.286 | -0.0004 | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.85 | -0.472 | -0.0007 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.85 | -0.057 | -0.0001 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.85 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.85 | -0.243 | -0.0003 | -2.5 to 2.5 | Pass |

### 2.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 701.5           | 25            | 0      | 20         | 3.27          | -0.129           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -0.486           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -0.501           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 0.072            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.086           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.143           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -0.443           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.086           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -0.501           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.830           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -0.057           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            | 707.5           | 25            | 0      | 20         | 3.27          | -0.973           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -0.515           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -0.629           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.615           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.672           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.858           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -0.787           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.458           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -0.987           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.672           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -0.744           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            | 713.5           | 25            | 0      | 20         | 3.27          | -0.644           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -0.658           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -0.615           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.801           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.501           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.443           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -0.544           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.601           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -0.744           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.844           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -0.787           | -0.0011               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 701.5           | 25            | 0      | 20         | 3.27          | 0.186            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -0.443           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -0.386           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.558           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.157           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.429           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | 0.014            | 0.0000                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -0.601           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -0.801           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.200           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -0.315           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            | 707.5           | 25            | 0      | 20         | 3.27          | -0.758           | -0.0011               | -2.5 to 2.5 | Pass    |

|  |       |    |   |     |      |        |         |             |      |
|--|-------|----|---|-----|------|--------|---------|-------------|------|
|  |       |    |   |     | 3.85 | -1.059 | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 4.43 | -0.887 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.85 | -0.987 | -0.0014 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | -0.644 | -0.0009 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | -0.973 | -0.0014 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -0.787 | -0.0011 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -0.887 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -1.059 | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -1.044 | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -0.787 | -0.0011 | -2.5 to 2.5 | Pass |
|  | 713.5 | 25 | 0 | 20  | 3.27 | -1.016 | -0.0014 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | -1.187 | -0.0017 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 4.43 | -0.901 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.85 | -0.930 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | -0.744 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | -0.844 | -0.0012 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -1.101 | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -0.744 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -0.758 | -0.0011 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -1.073 | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -0.701 | -0.0010 | -2.5 to 2.5 | Pass |

#### 2.1.4 B12\_10MHz

| Band: 12 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 704             | 50            | 0      | 20         | 3.27          | -0.300           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.844           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -1.116           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -0.973           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -1.073           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.601           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -0.172           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -1.187           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -1.259           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -1.044           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -0.958           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             | 707.5           | 50            | 0      | 20         | 3.27          | 0.014            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 0.057            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 0.100            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -0.186           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -0.243           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.372           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -0.215           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -0.415           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -0.229           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -0.300           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -0.358           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             | 711             | 50            | 0      | 20         | 3.27          | 0.014            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.315           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -0.587           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -0.486           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -0.172           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.057           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 0.029            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -0.286           | -0.0004               | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
| 16QAM | 704   | 50 | 0 | 30  | 3.85 | -0.243 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 0.229  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.572 | -0.0008 | -2.5 to 2.5 | Pass |
|       | 707.5 | 50 | 0 | 20  | 3.27 | -1.459 | -0.0021 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -1.402 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -1.416 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -1.187 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -1.273 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -1.087 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -1.187 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -1.030 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -1.259 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.944 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -0.715 | -0.0010 | -2.5 to 2.5 | Pass |
|       | 711   | 50 | 0 | 20  | 3.27 | -0.286 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.086  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -0.129 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -0.286 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 0.200  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.372 | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -0.587 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.072  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 3.27 | 0.257  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.372  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 0.257  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 0.472  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 0.329  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.515  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.443  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.114 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 0.529  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 0.358  | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.172  | 0.0002  | -2.5 to 2.5 | Pass |

### 3. Modulation Characteristics

#### 3.1 Test Result

##### 3.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                            |       |         |
|-------------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                     |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                                | 707.5           | 6             | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                               | 707.5           | 6             | 0      | Refer To Test Graph        |       | Pass    |

##### 3.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                            |       |         |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                   |                 | Size          | Offset | Result                     | Limit |         |

|       |       |    |   |                     |      |
|-------|-------|----|---|---------------------|------|
| QPSK  | 707.5 | 15 | 0 | Refer To Test Graph | Pass |
| 16QAM | 707.5 | 15 | 0 | Refer To Test Graph | Pass |

### 3.1.3 B12\_5MHz

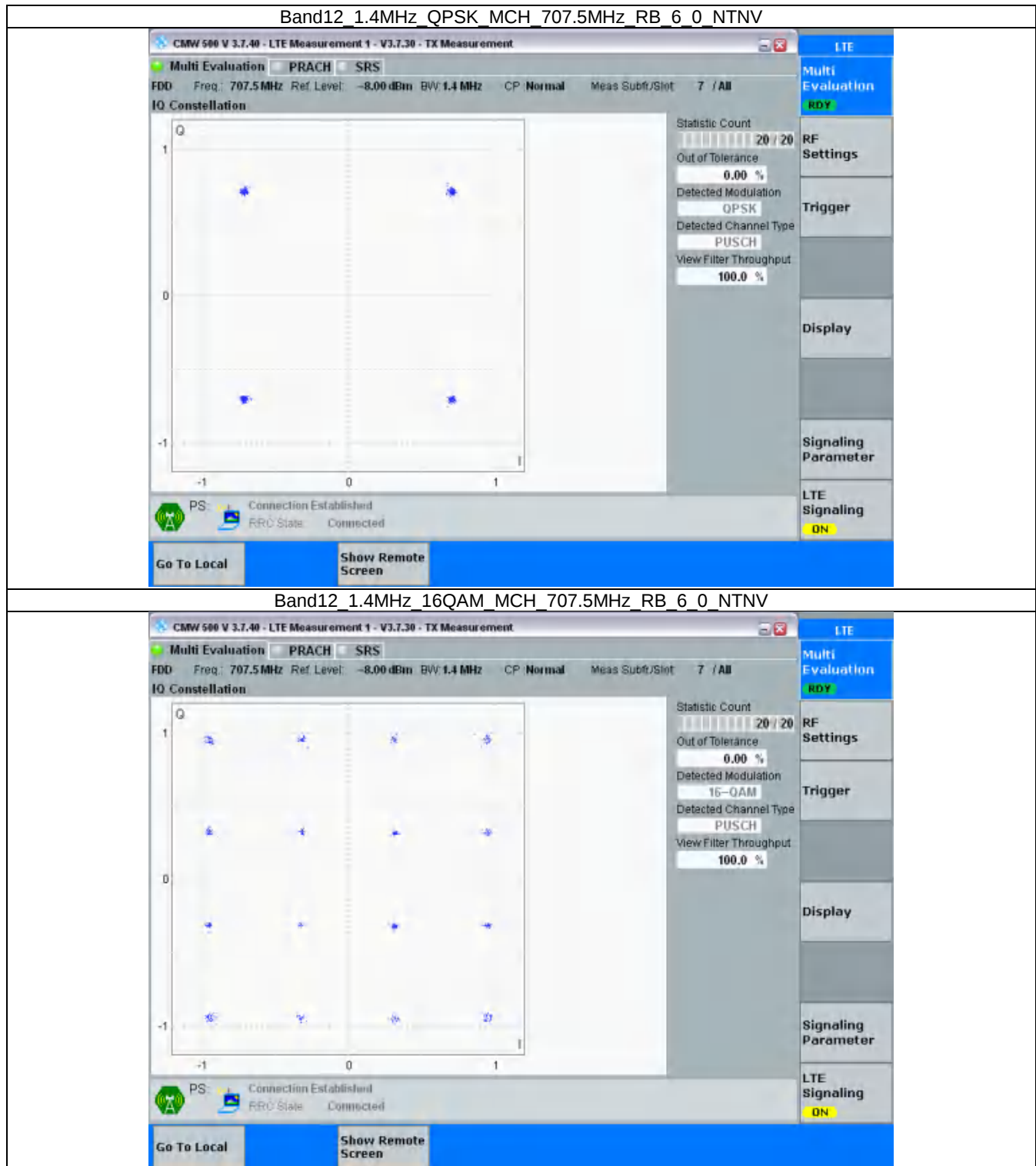
| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                            |         |
|-----------------------------------|-----------------|---------------|--------|----------------------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Modulation Characteristics | Verdict |
|                                   |                 | Size          | Offset | Result                     | Limit   |
| QPSK                              | 707.5           | 25            | 0      | Refer To Test Graph        | Pass    |
| 16QAM                             | 707.5           | 25            | 0      | Refer To Test Graph        | Pass    |

### 3.1.4 B12\_10MHz

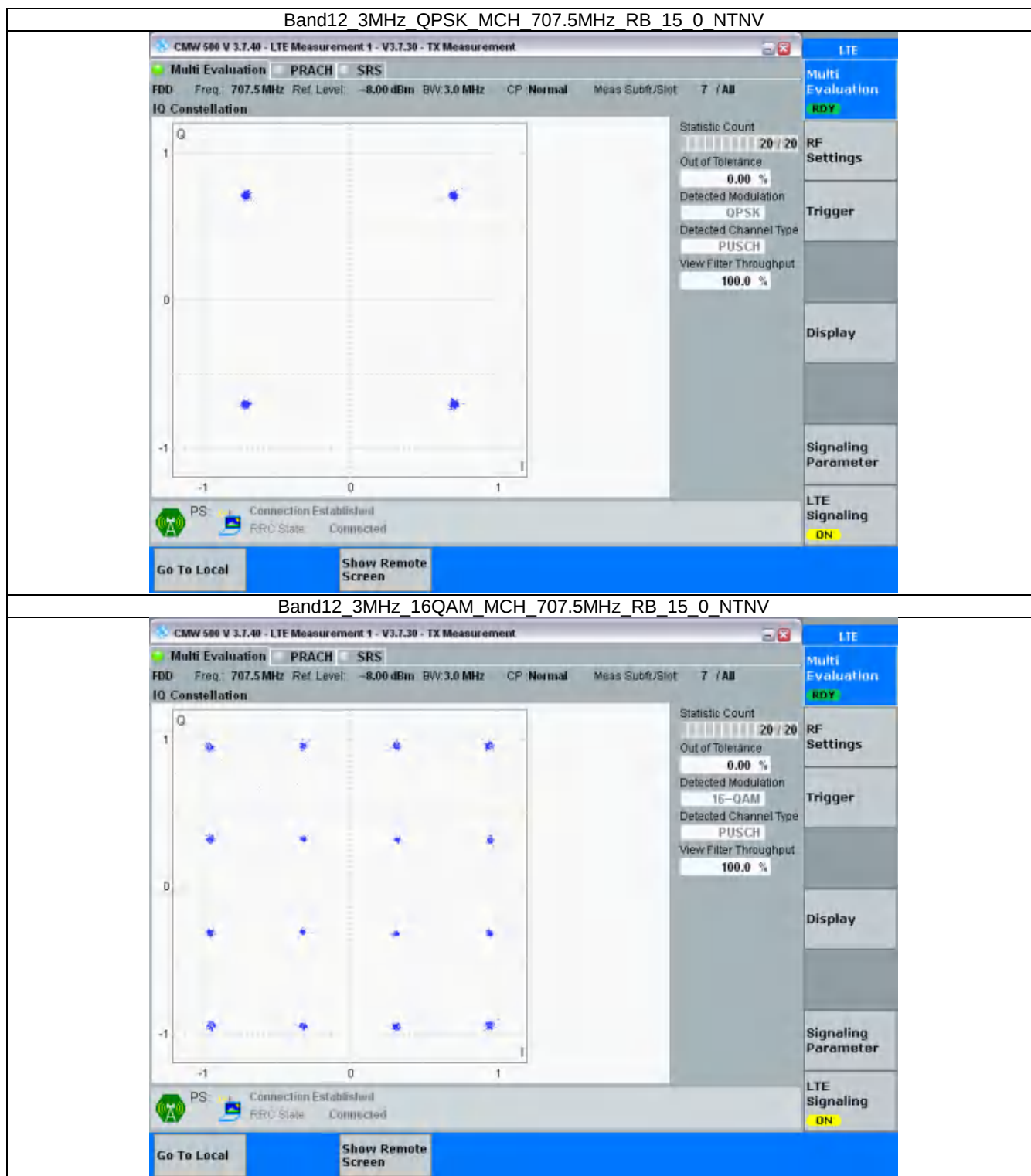
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                            |         |
|------------------------------------|-----------------|---------------|--------|----------------------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Modulation Characteristics | Verdict |
|                                    |                 | Size          | Offset | Result                     | Limit   |
| QPSK                               | 707.5           | 50            | 0      | Refer To Test Graph        | Pass    |
| 16QAM                              | 707.5           | 50            | 0      | Refer To Test Graph        | Pass    |

## 3.2 Test Graph

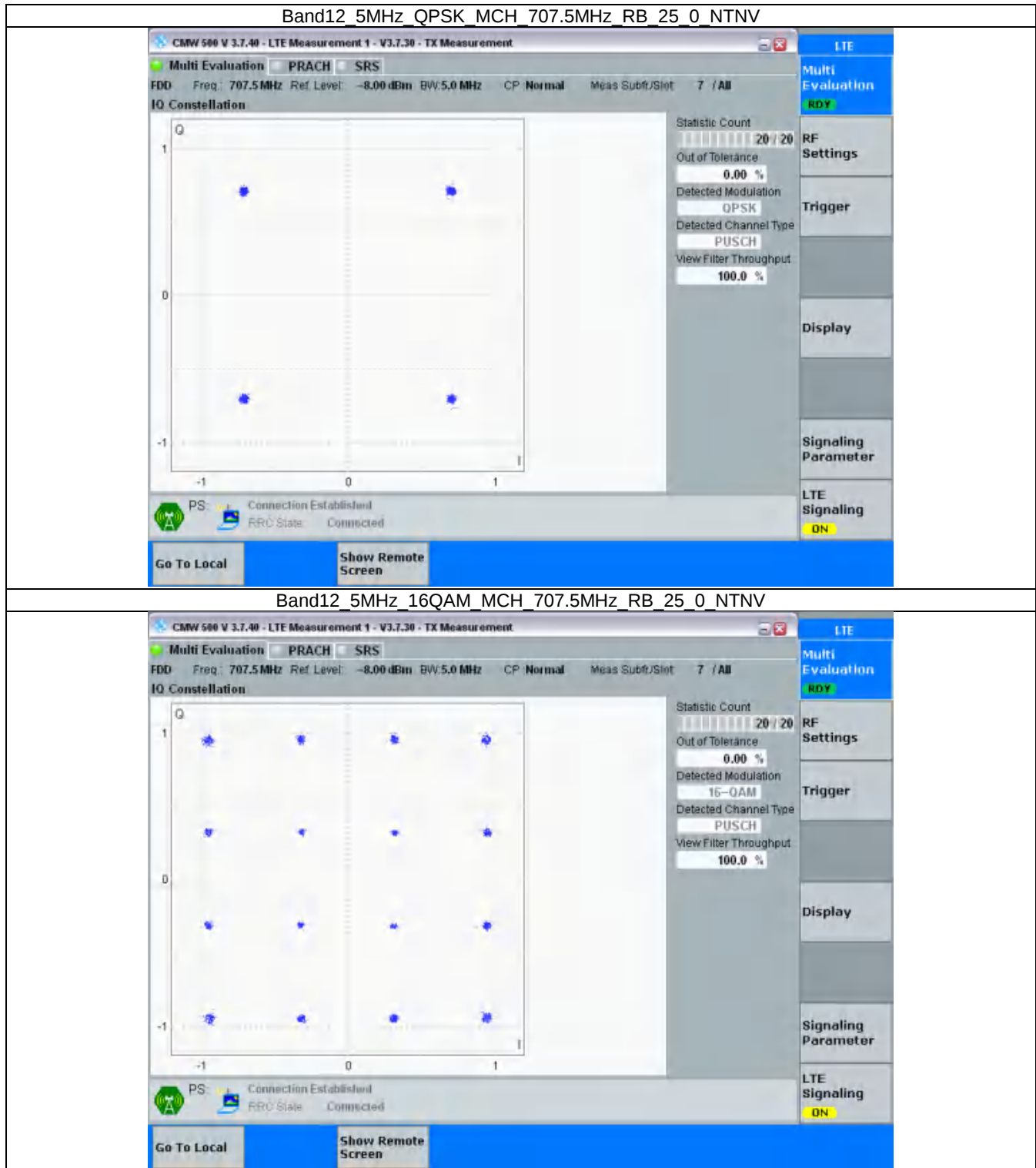
### 3.2.1 B12\_1.4MHz



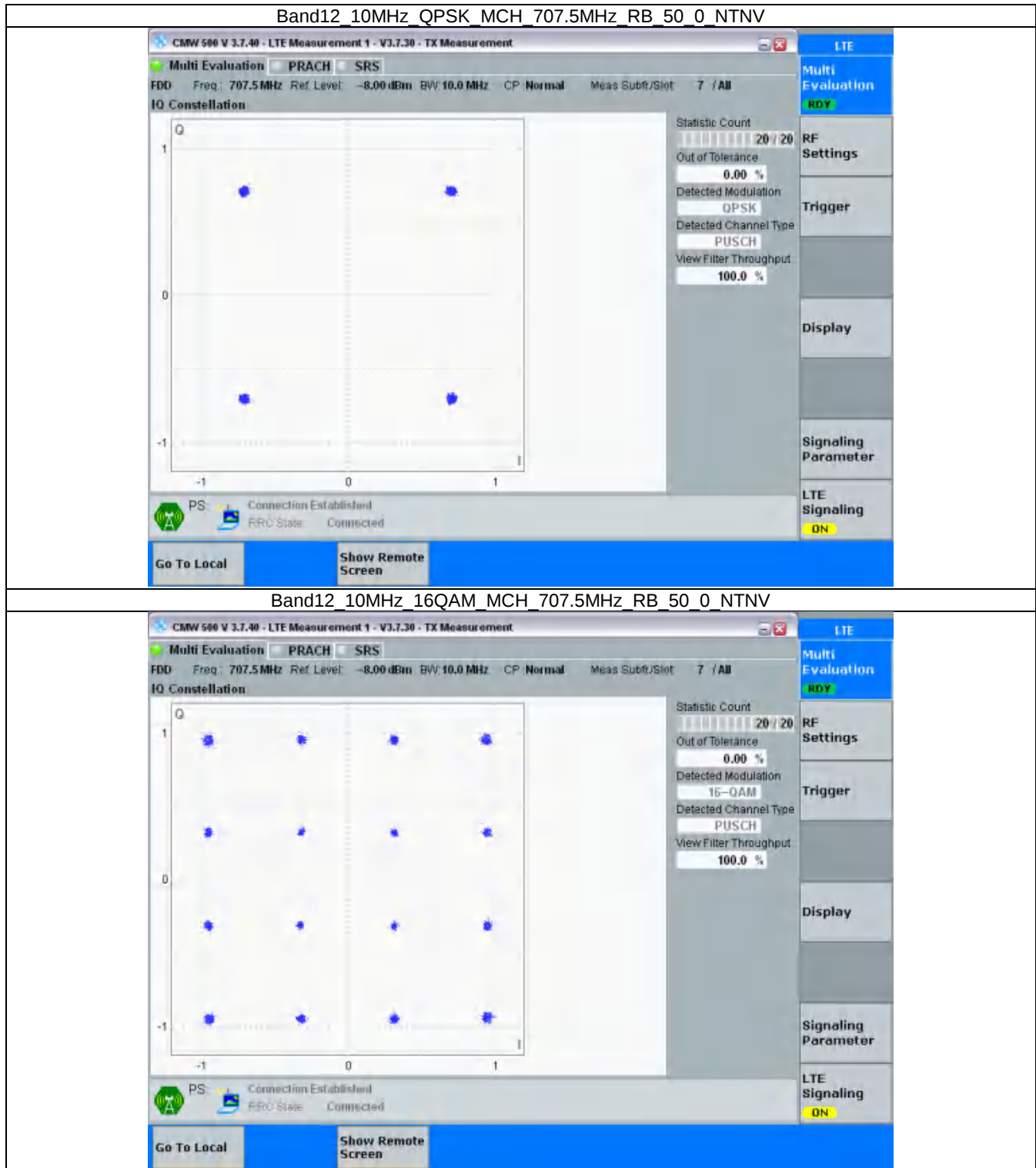
## 3.2.2 B12\_3MHz



### 3.2.3 B12\_5MHz



### 3.2.4 B12\_10MHz



## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 Band12\_OBW

| Band: 12 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.114                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.105                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.096                        | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.101                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.104                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.115                        | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.713                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.716                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.710                        | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 2.697                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.709                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.713                        | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 4.535                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.560                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.580                        | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 4.569                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.564                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.579                        | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 9.049                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.047                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.084                        | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 9.061                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.055                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.061                        | /     | Pass    |

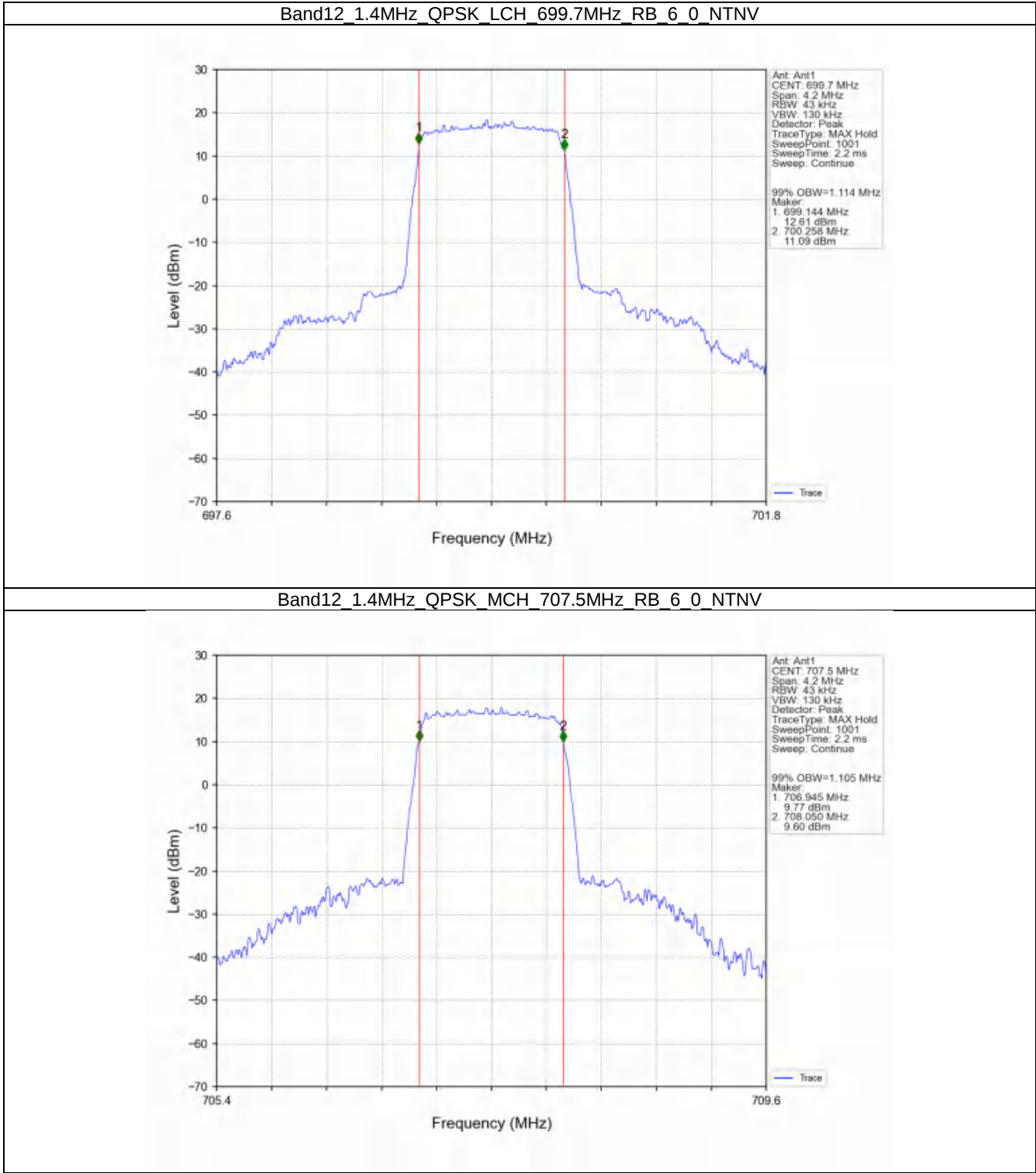
#### 4.1.2 Band12\_XDB

| Band: 12 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.263                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.266                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.265                | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.264                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.262                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.267                | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.971                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.970                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.972                | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 2.972                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.965                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.967                | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 5.029                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.058                | /     | Pass    |

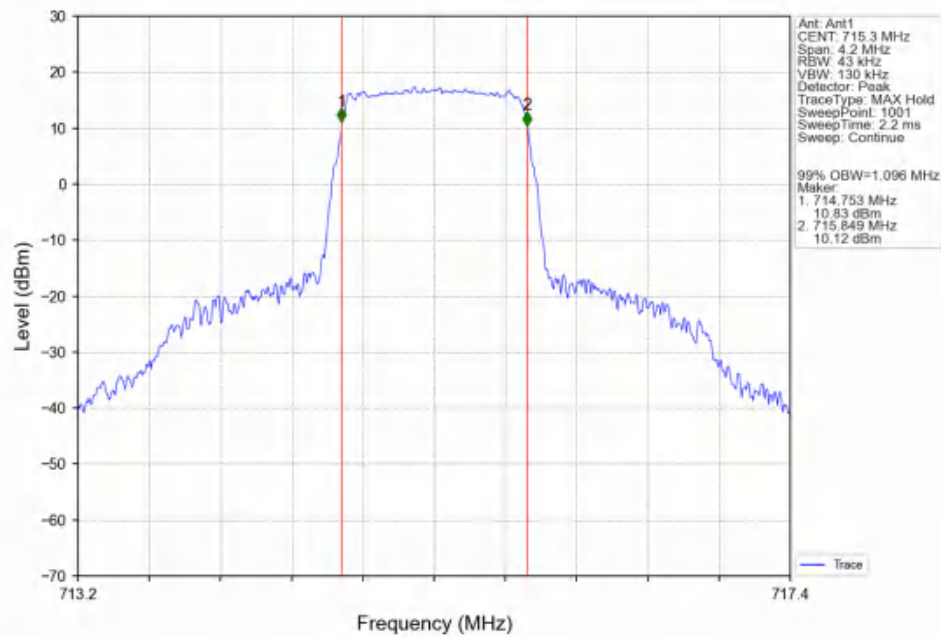
|    |       |       |    |   |        |   |      |
|----|-------|-------|----|---|--------|---|------|
|    | 16QAM | 713.5 | 25 | 0 | 5.051  | / | Pass |
|    |       | 701.5 | 25 | 0 | 5.077  | / | Pass |
|    |       | 707.5 | 25 | 0 | 5.055  | / | Pass |
|    |       | 713.5 | 25 | 0 | 5.056  | / | Pass |
| 10 | QPSK  | 704   | 50 | 0 | 10.045 | / | Pass |
|    |       | 707.5 | 50 | 0 | 10.044 | / | Pass |
|    |       | 711   | 50 | 0 | 10.107 | / | Pass |
|    | 16QAM | 704   | 50 | 0 | 10.031 | / | Pass |
|    |       | 707.5 | 50 | 0 | 10.080 | / | Pass |
|    |       | 711   | 50 | 0 | 10.137 | / | Pass |

4.2 Test Graph

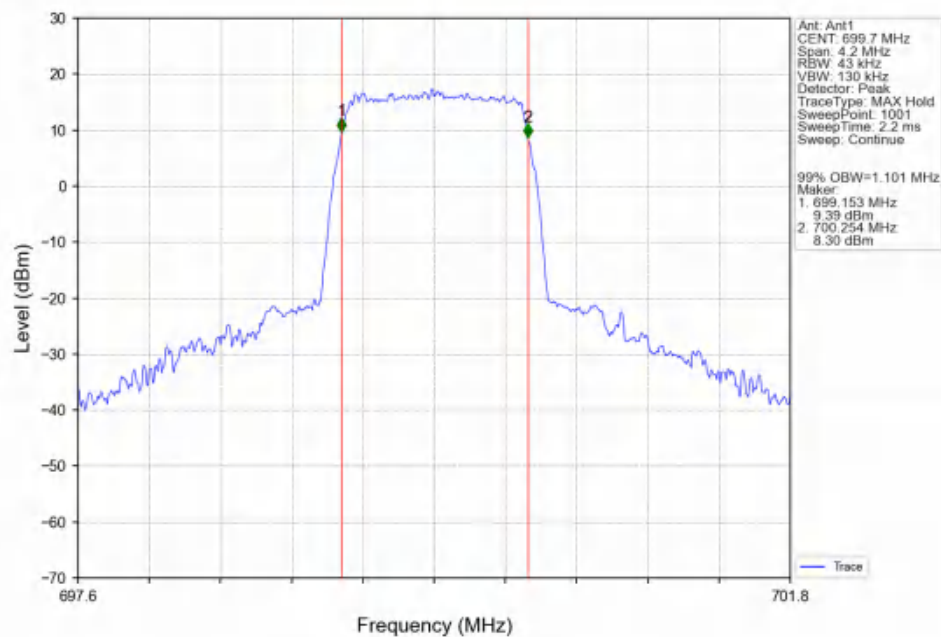
4.2.1 Band12\_OBW

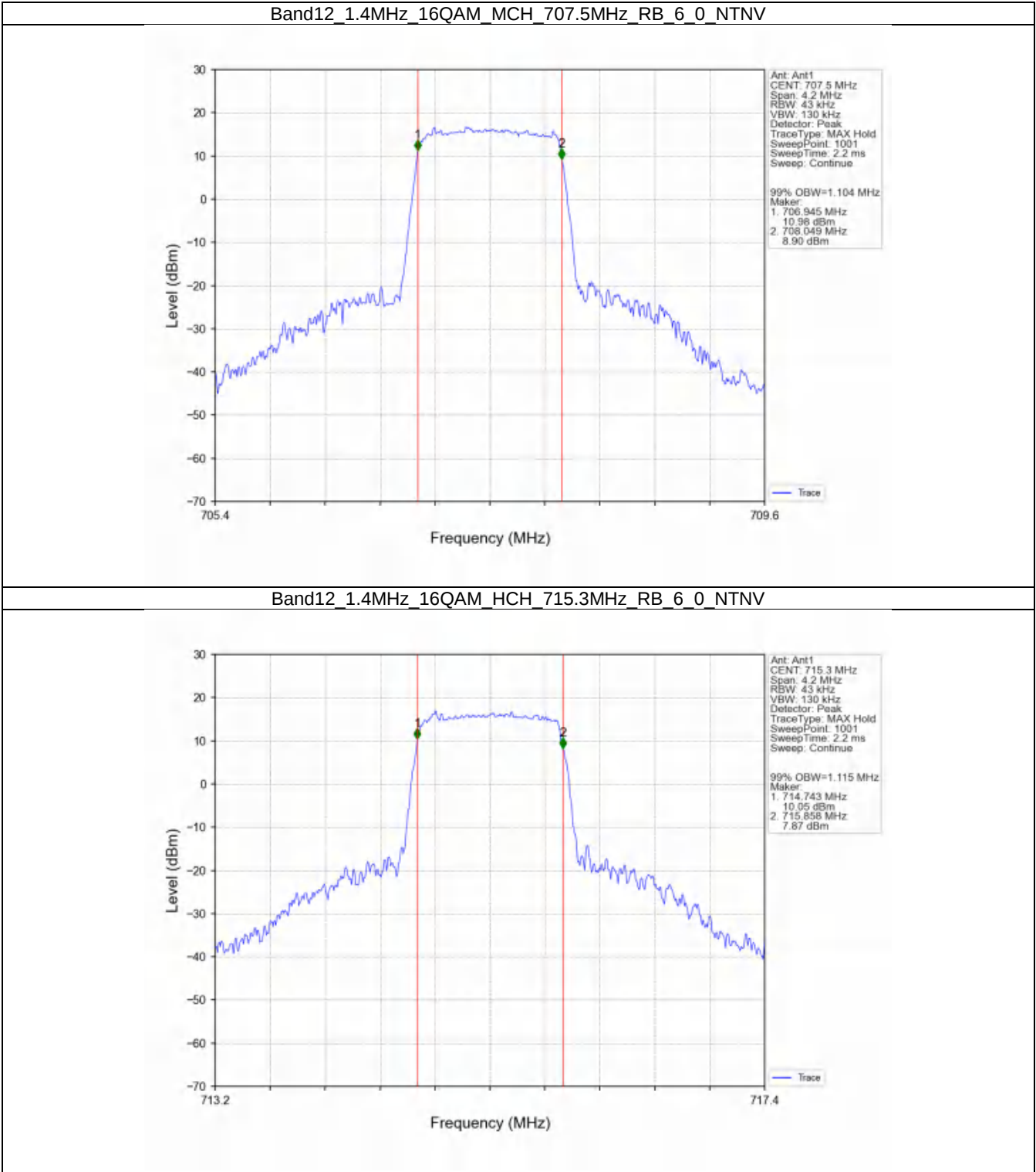


Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV

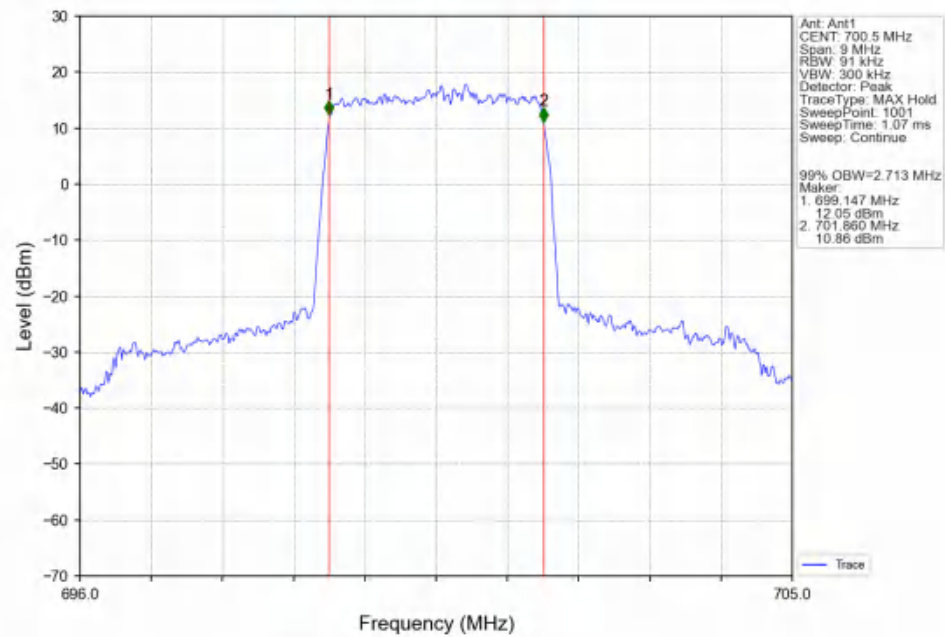


Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

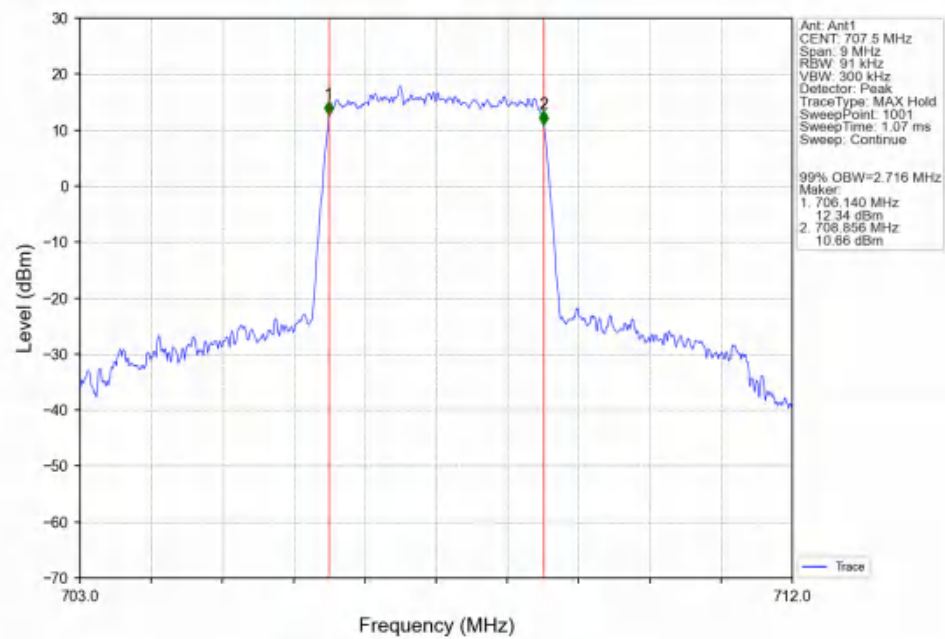




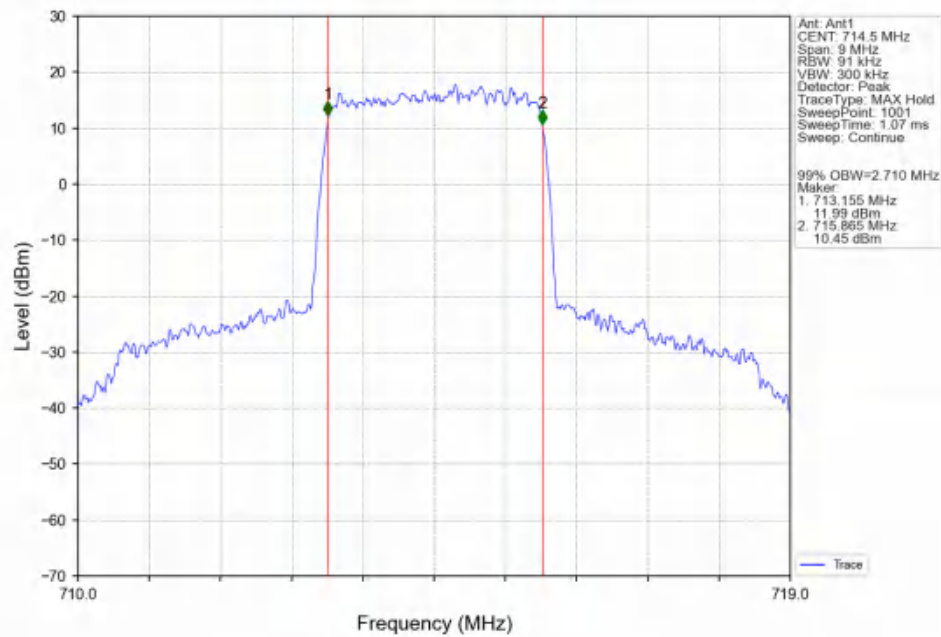
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



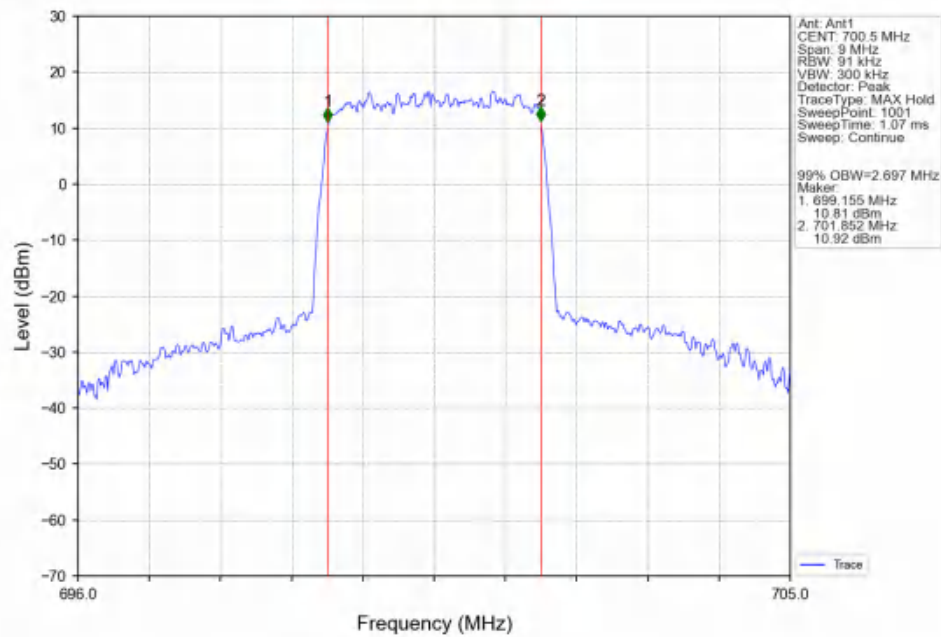
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



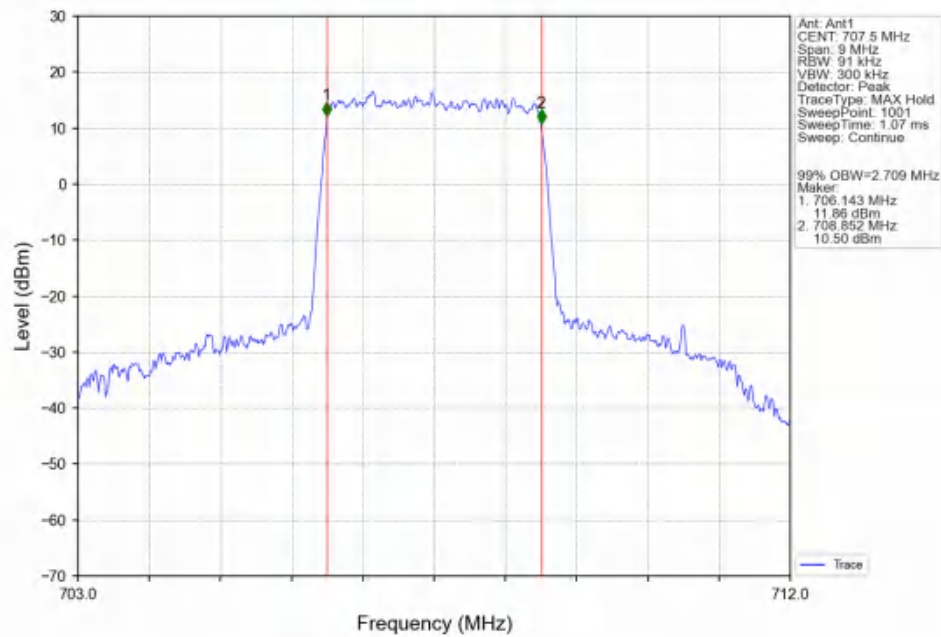
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



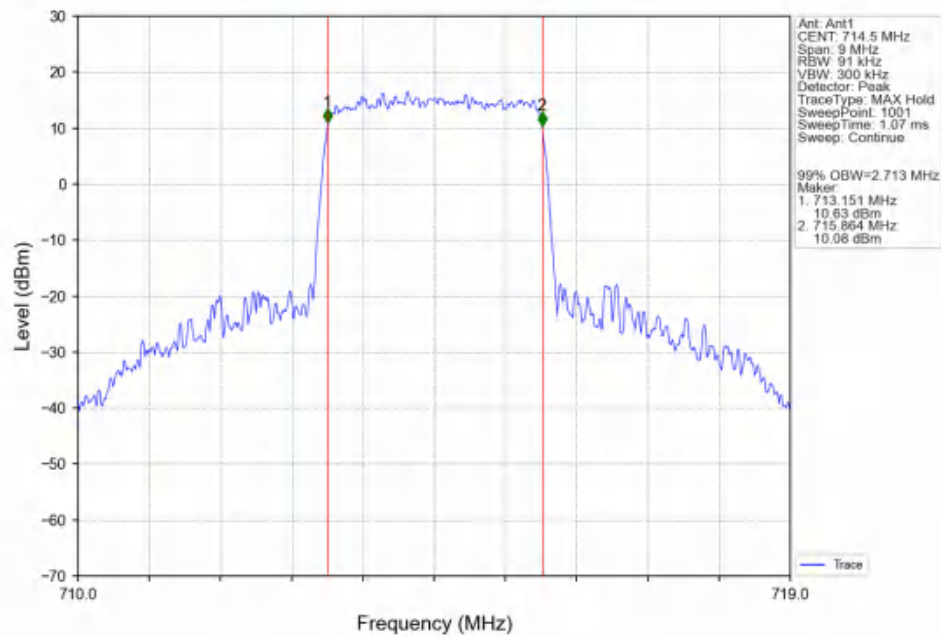
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



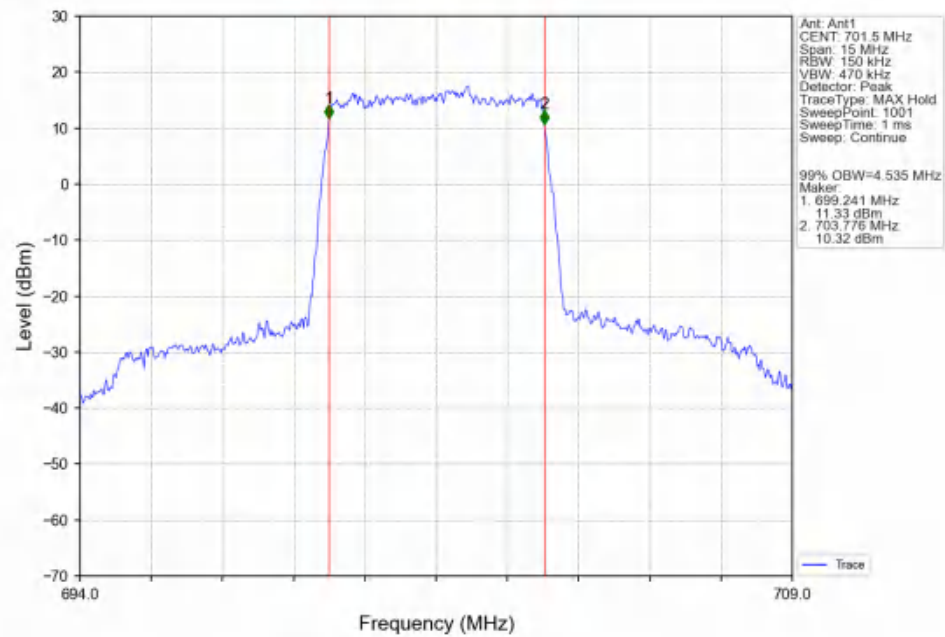
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



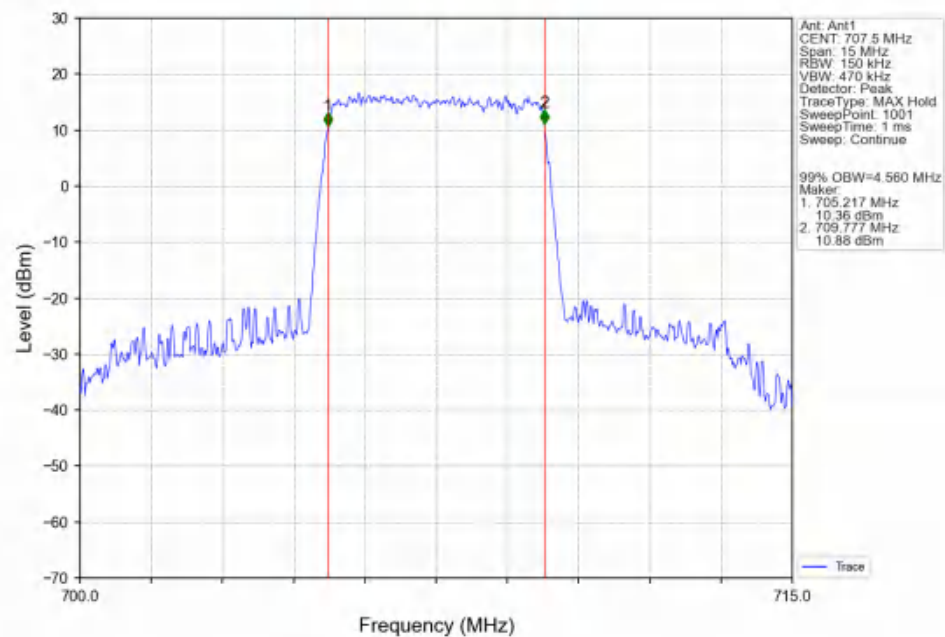
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



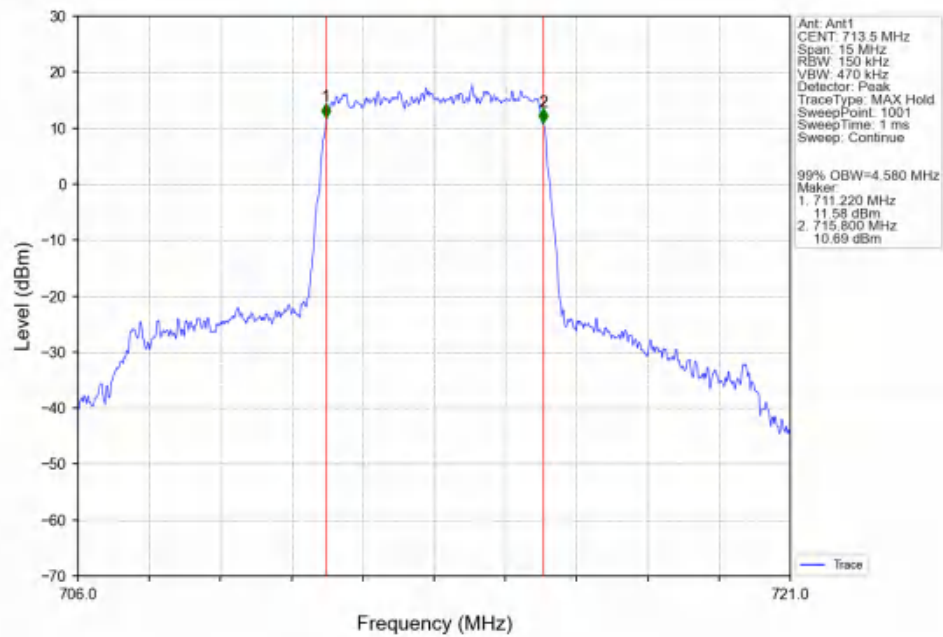
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



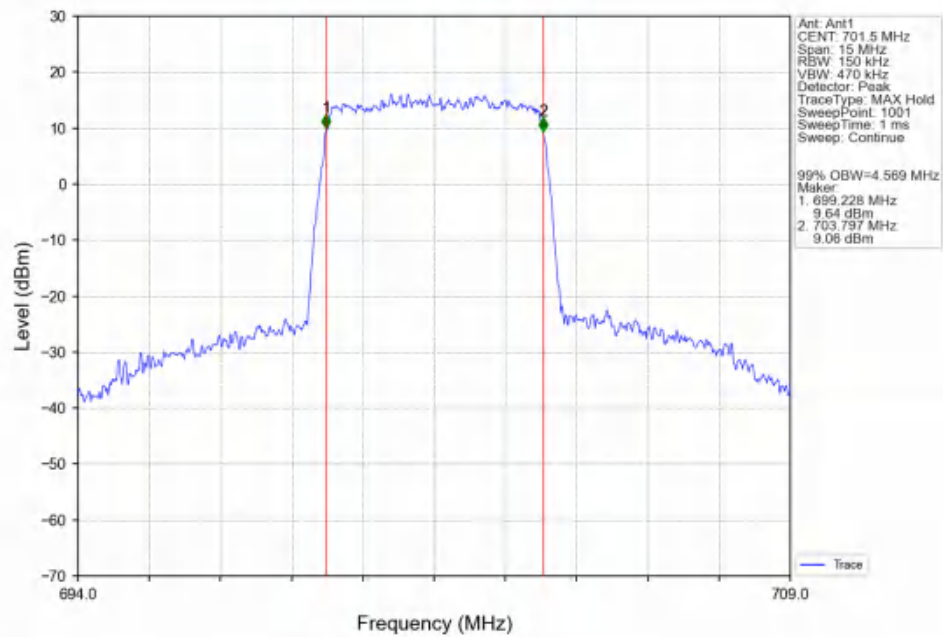
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



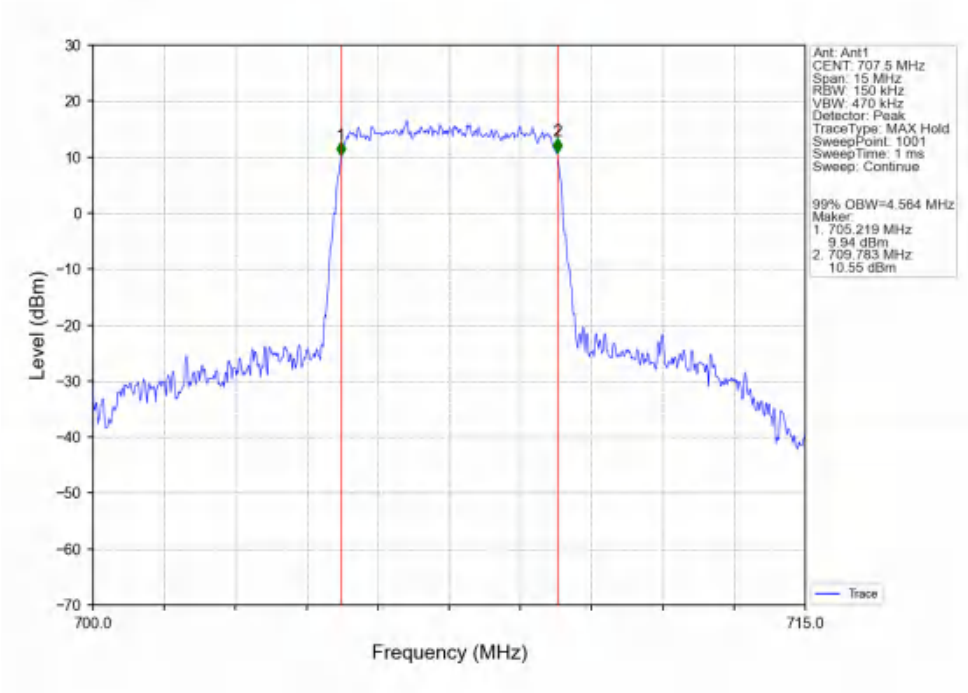
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



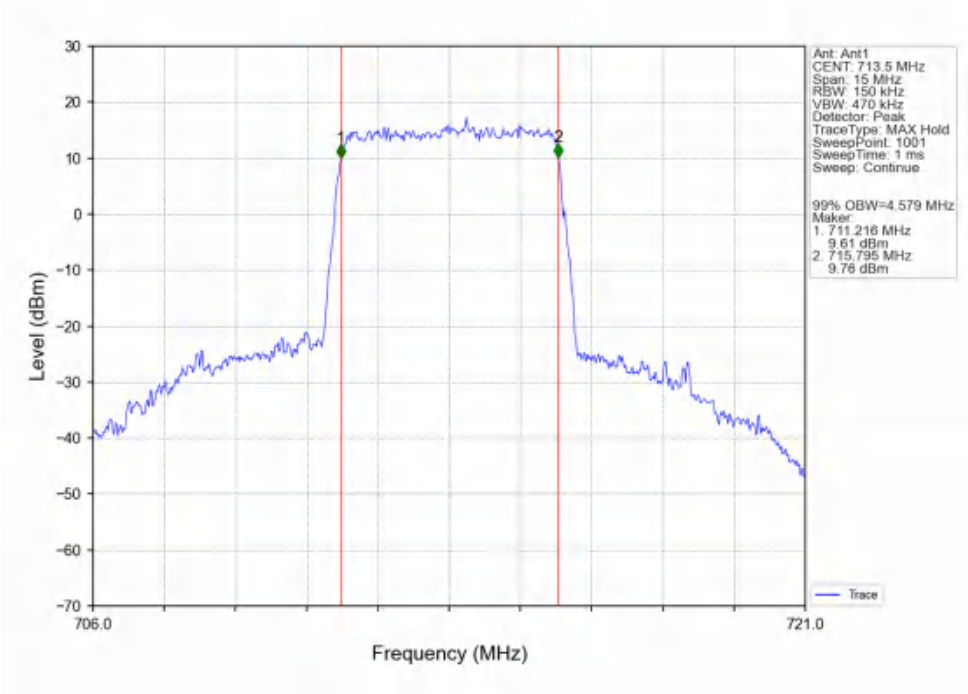
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



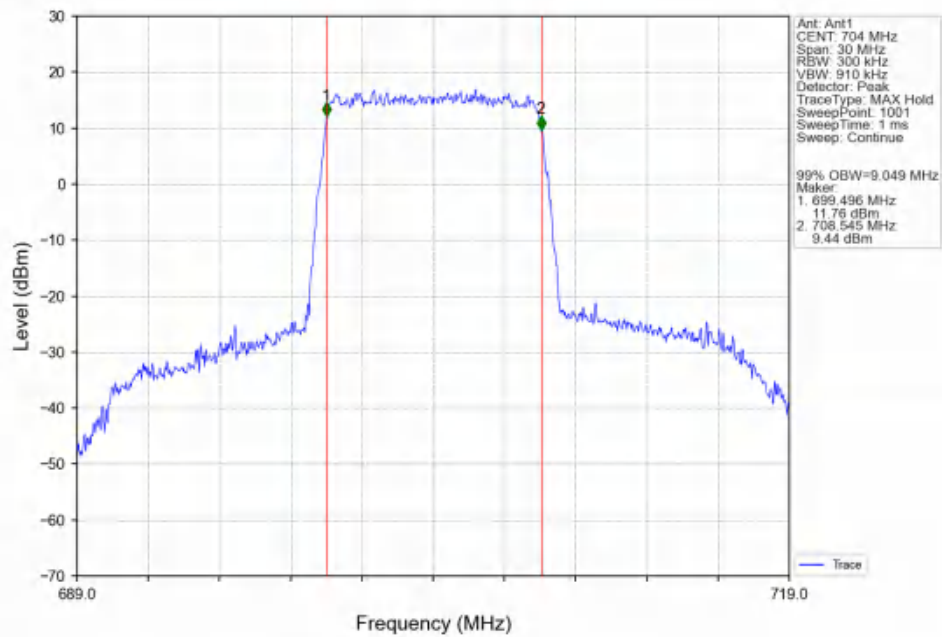
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



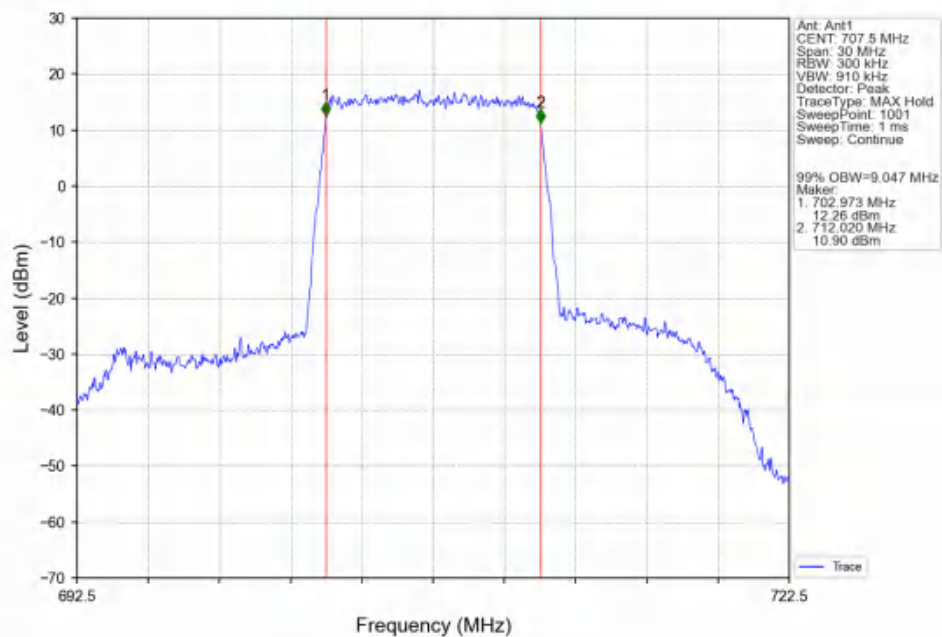
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



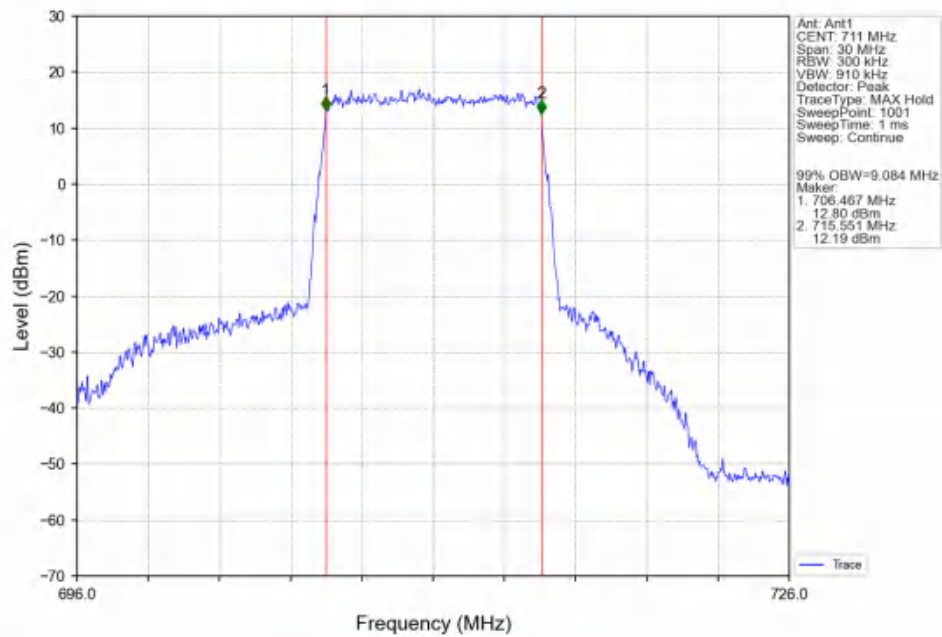
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



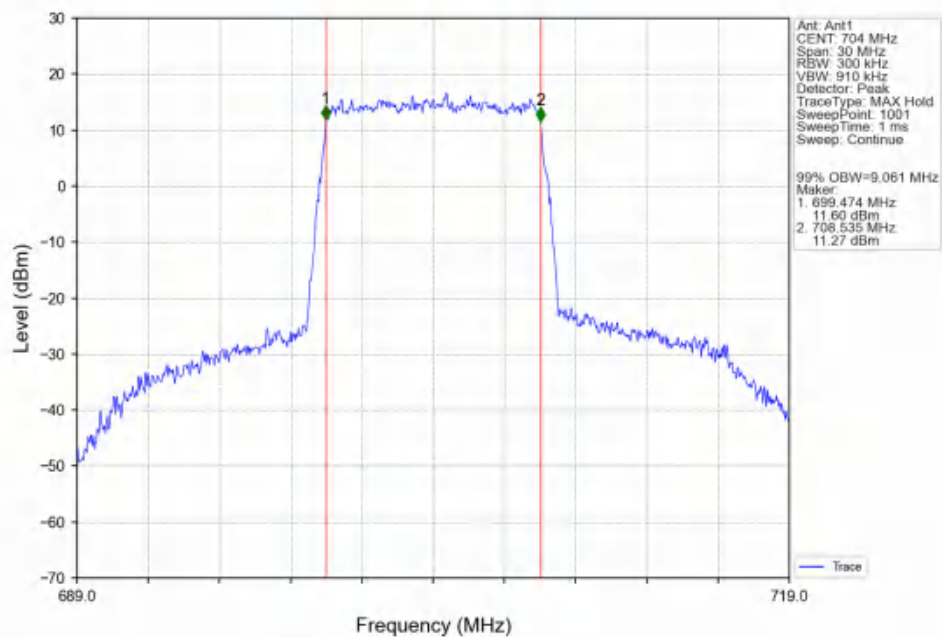
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



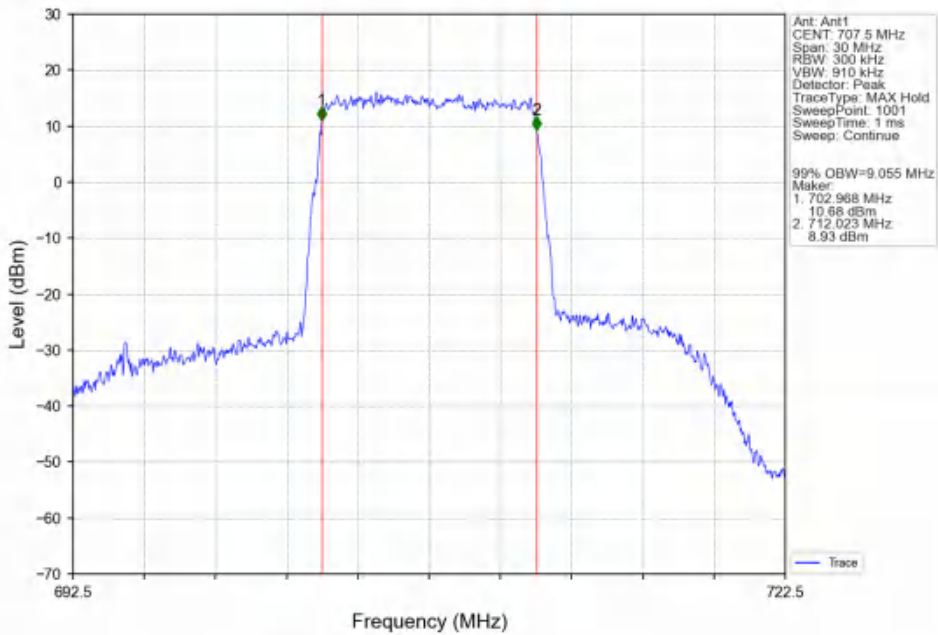
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



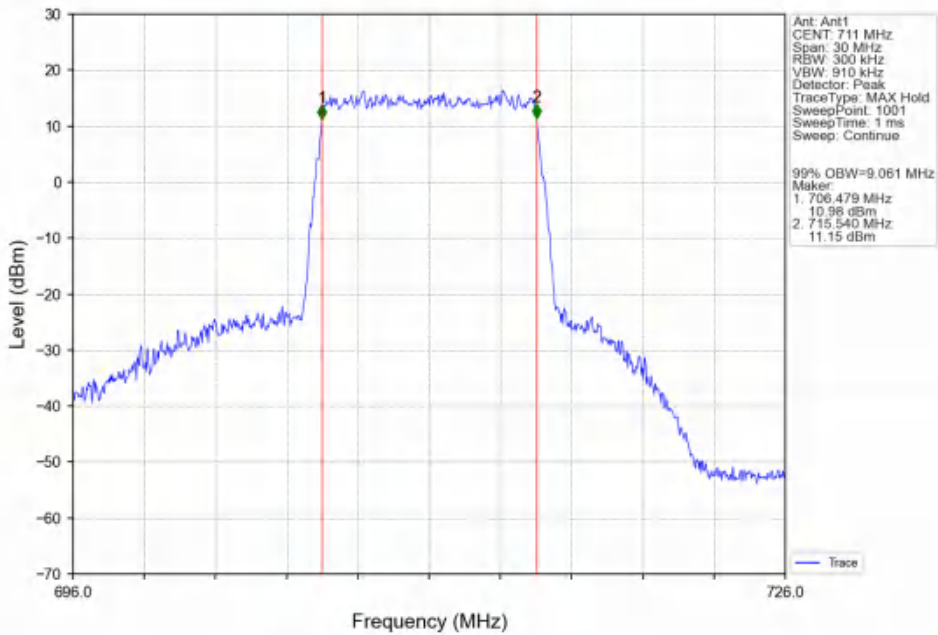
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



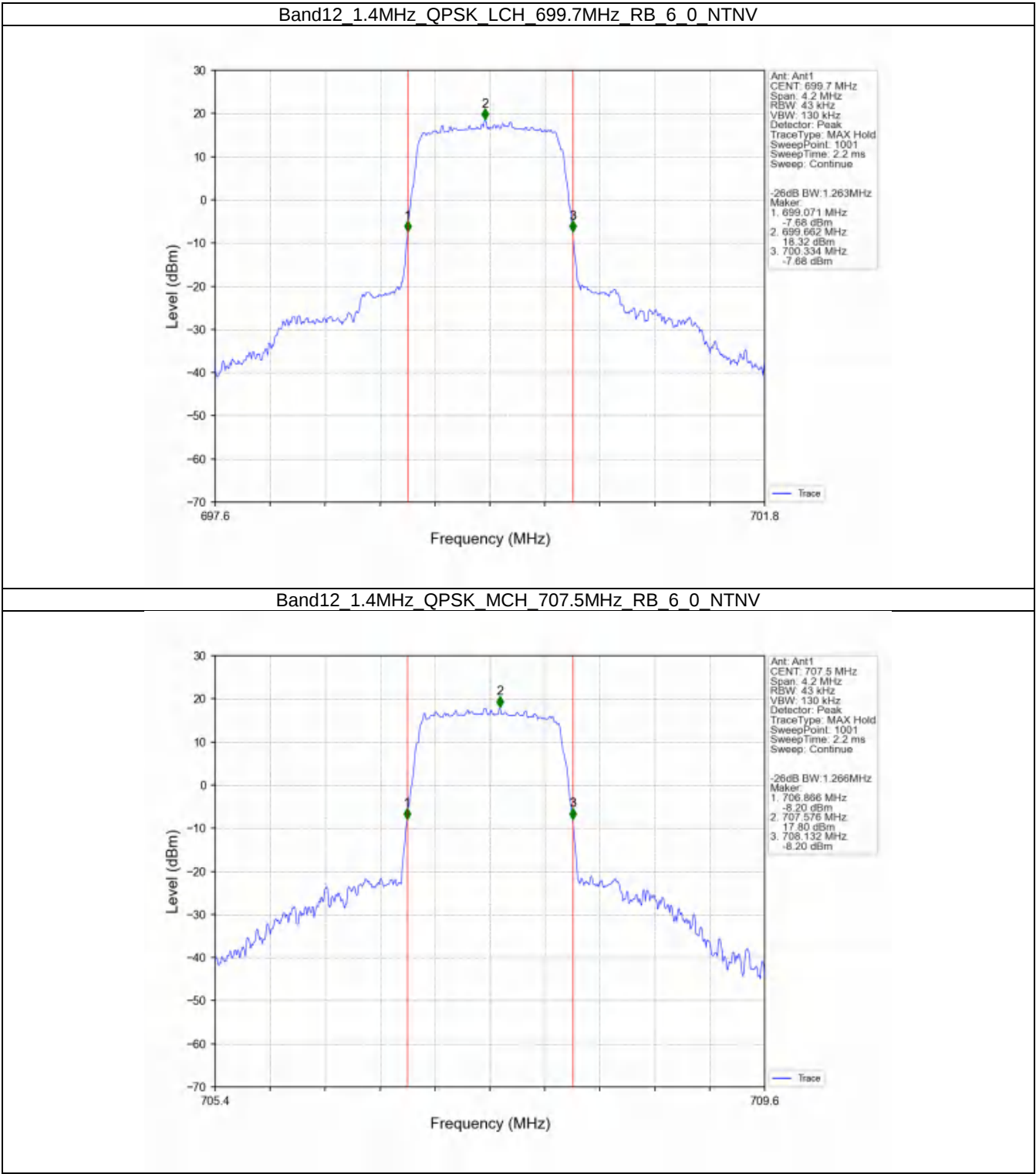
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



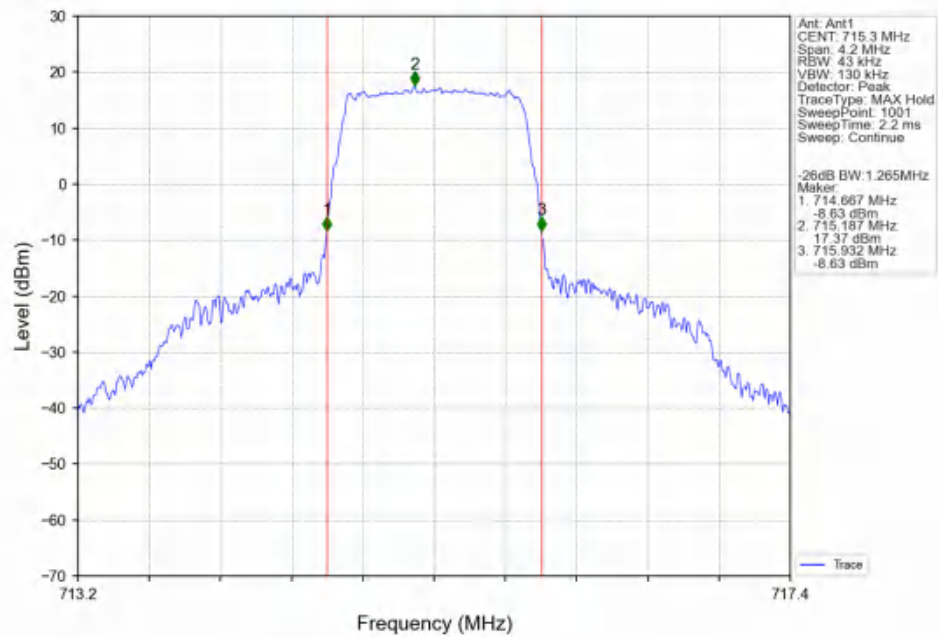
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



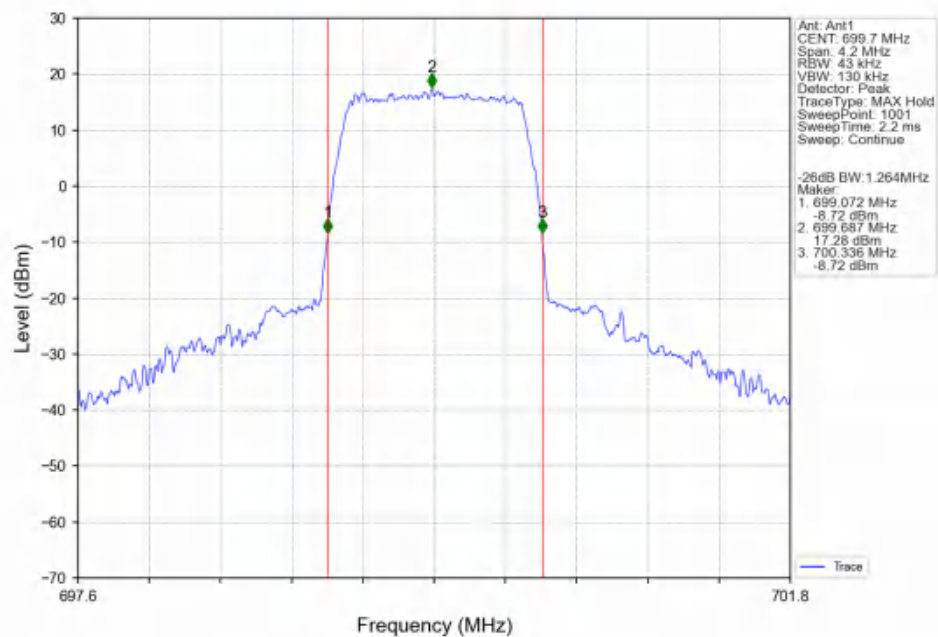
4.2.2 Band12\_XDB



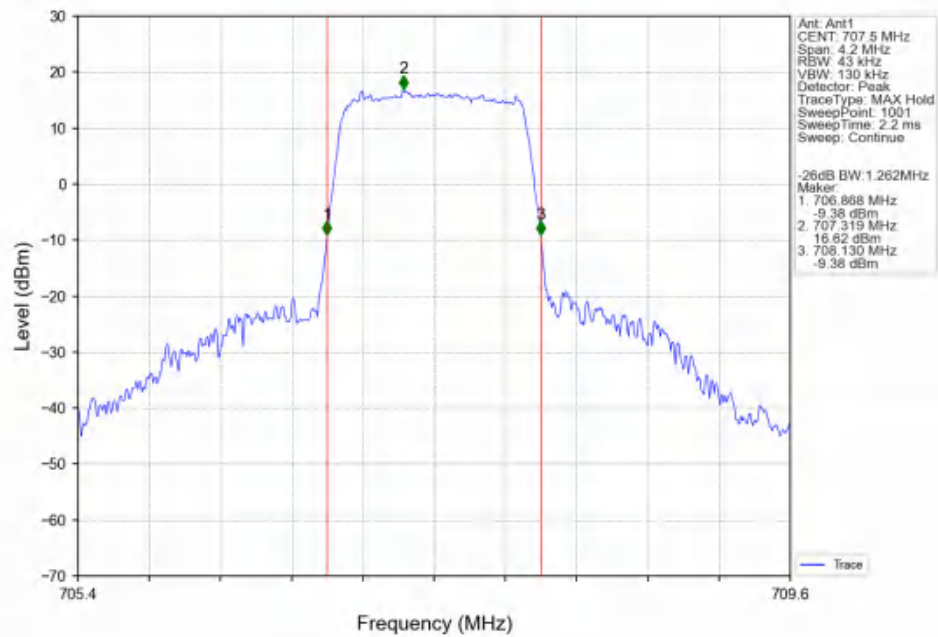
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



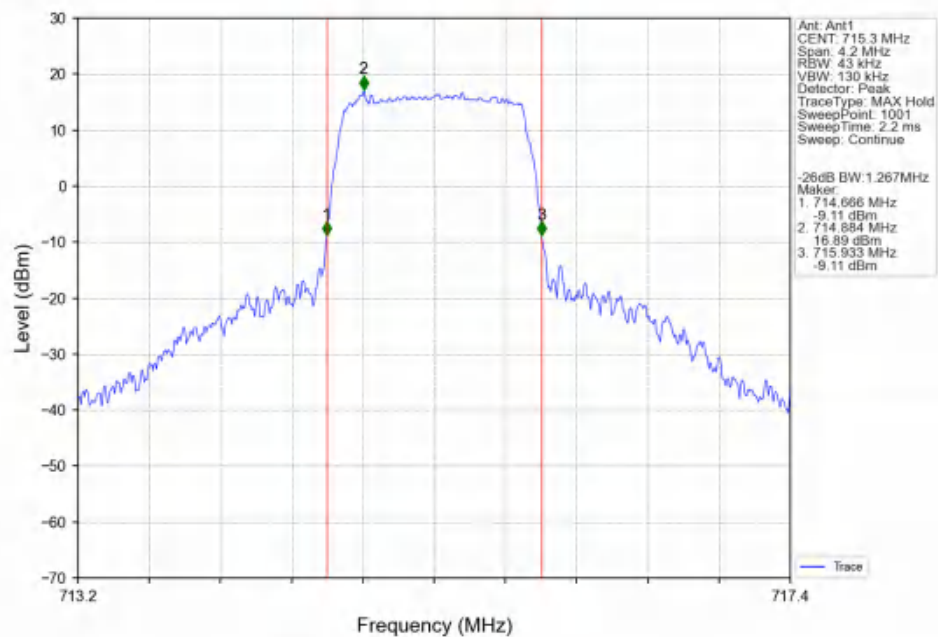
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



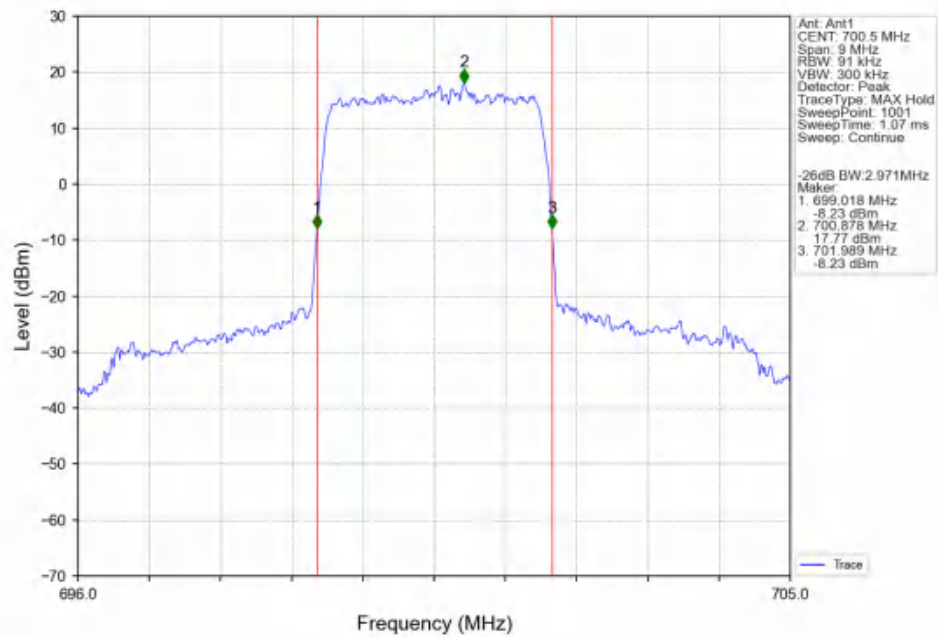
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



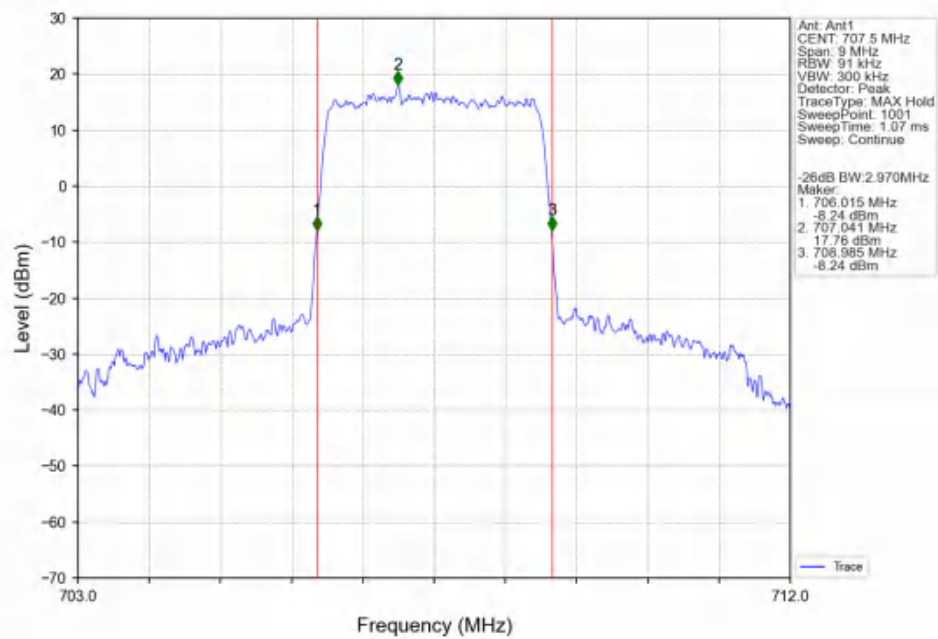
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



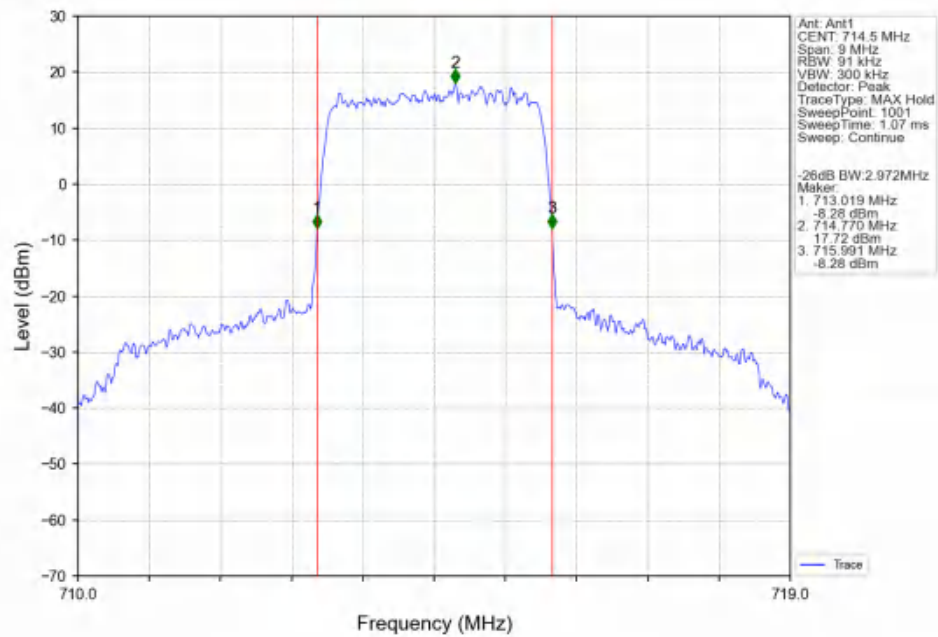
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



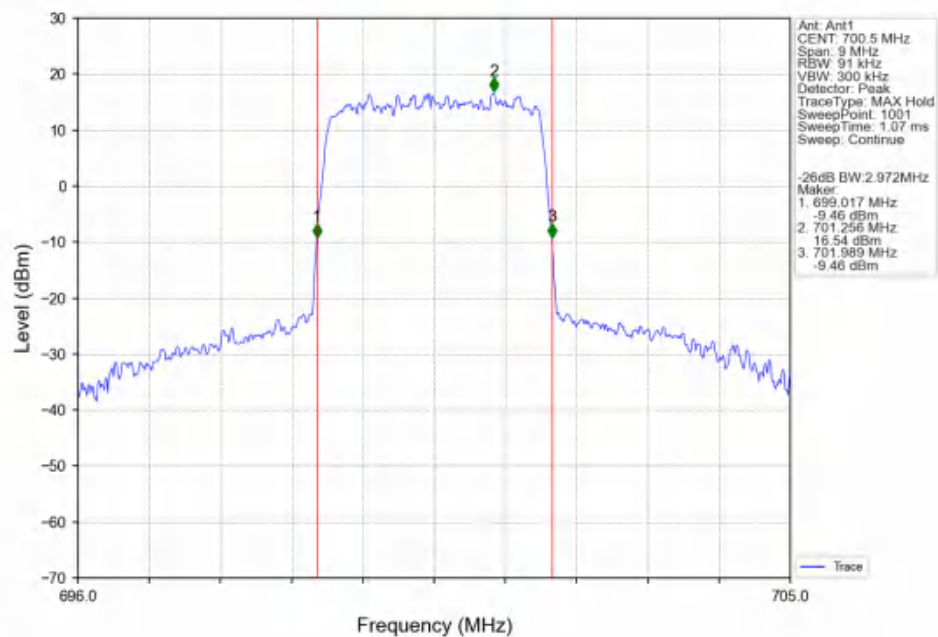
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



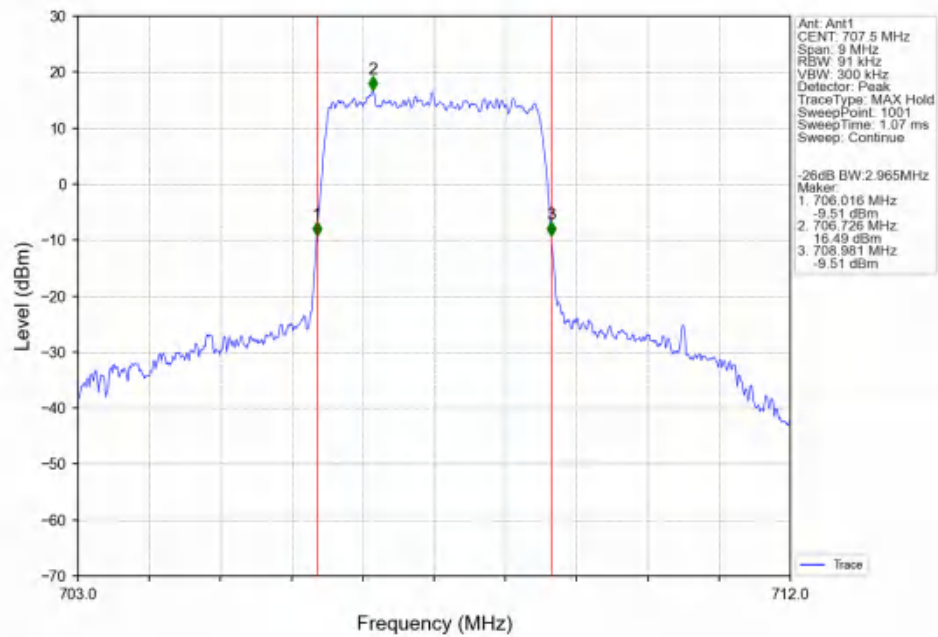
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



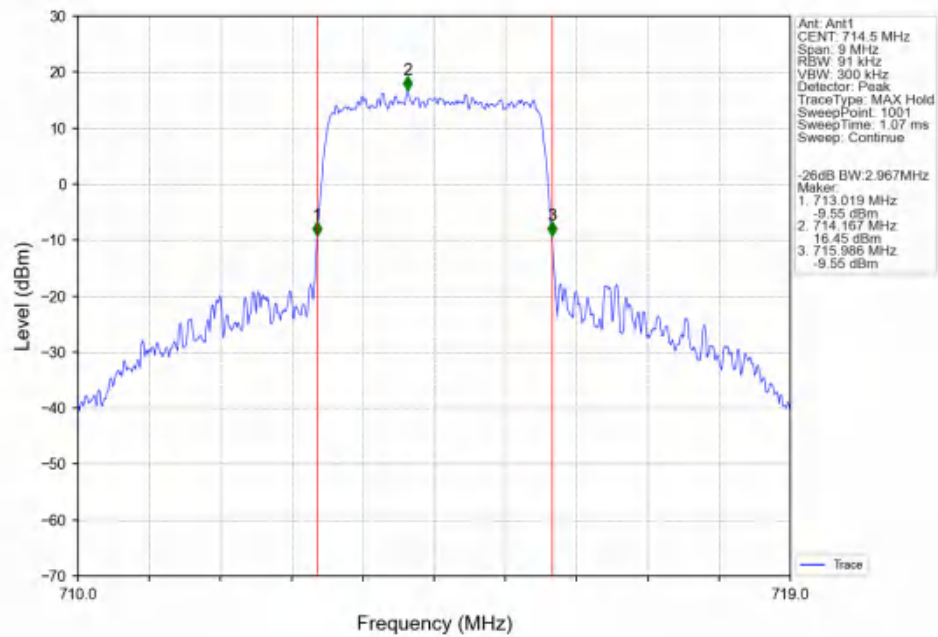
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



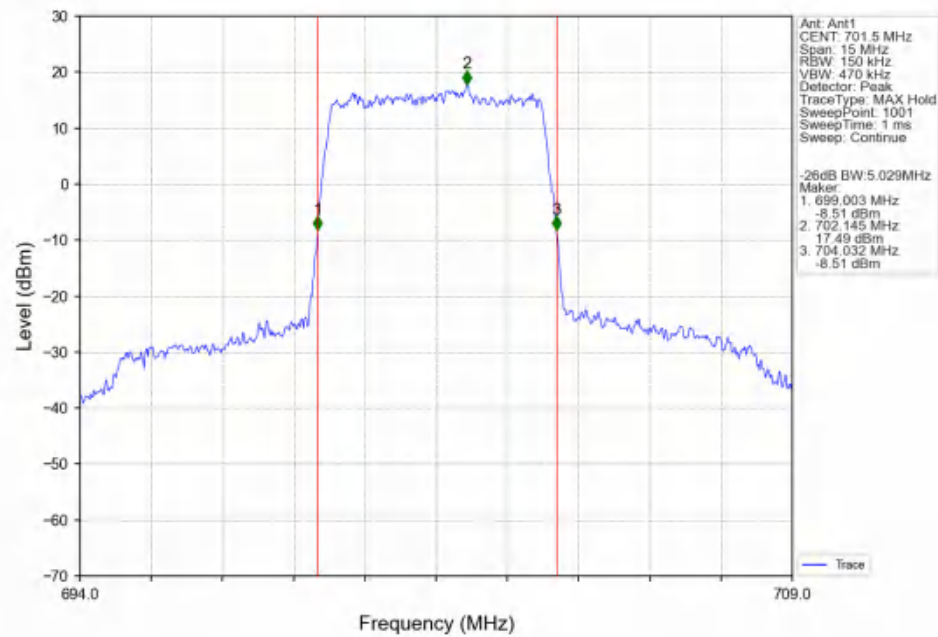
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



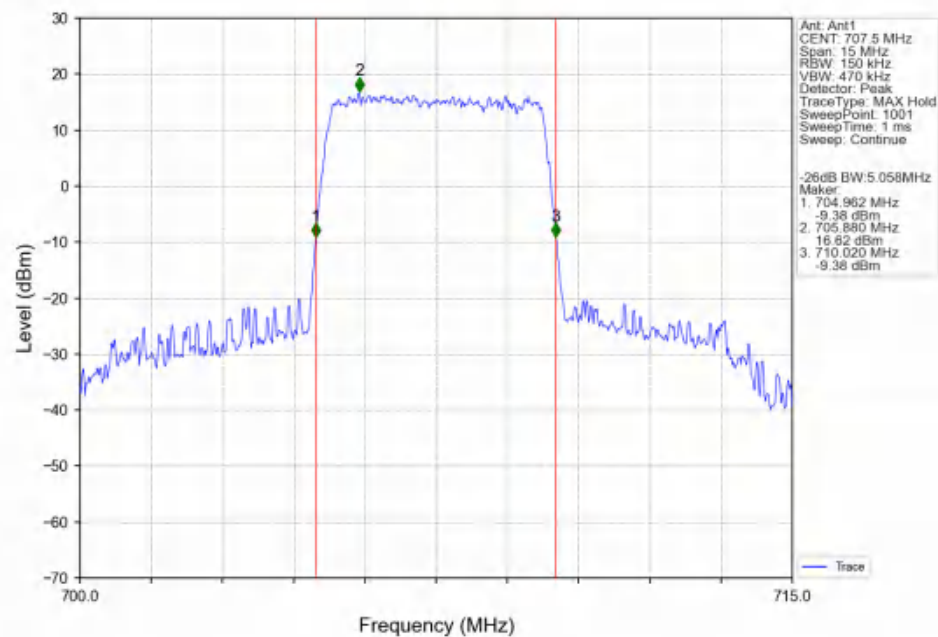
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



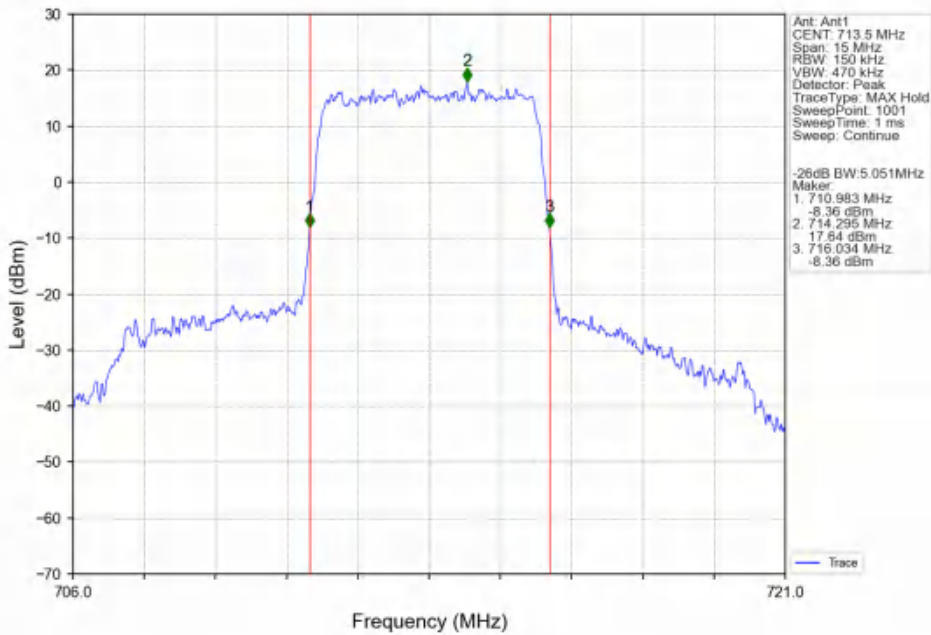
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



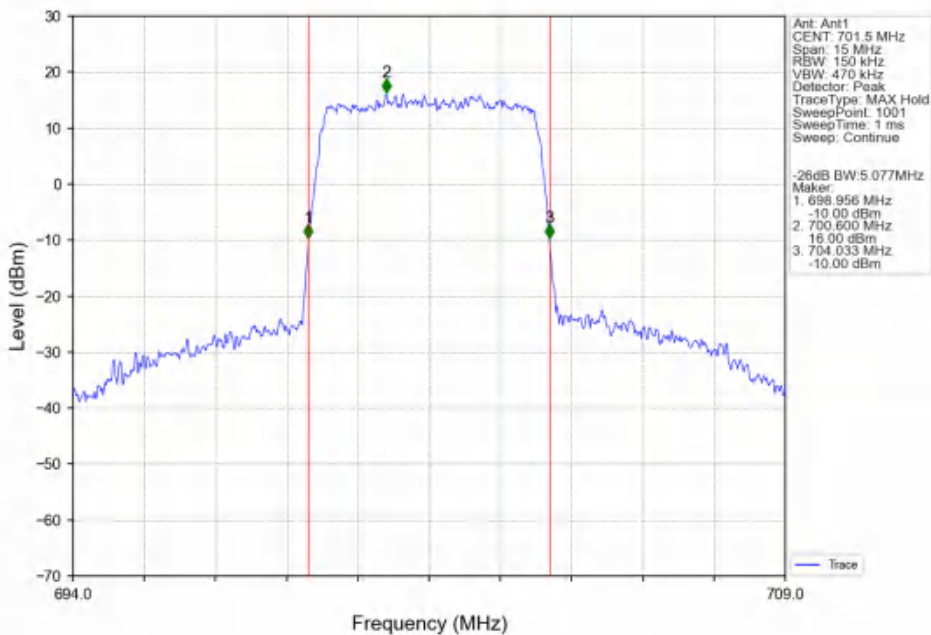
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



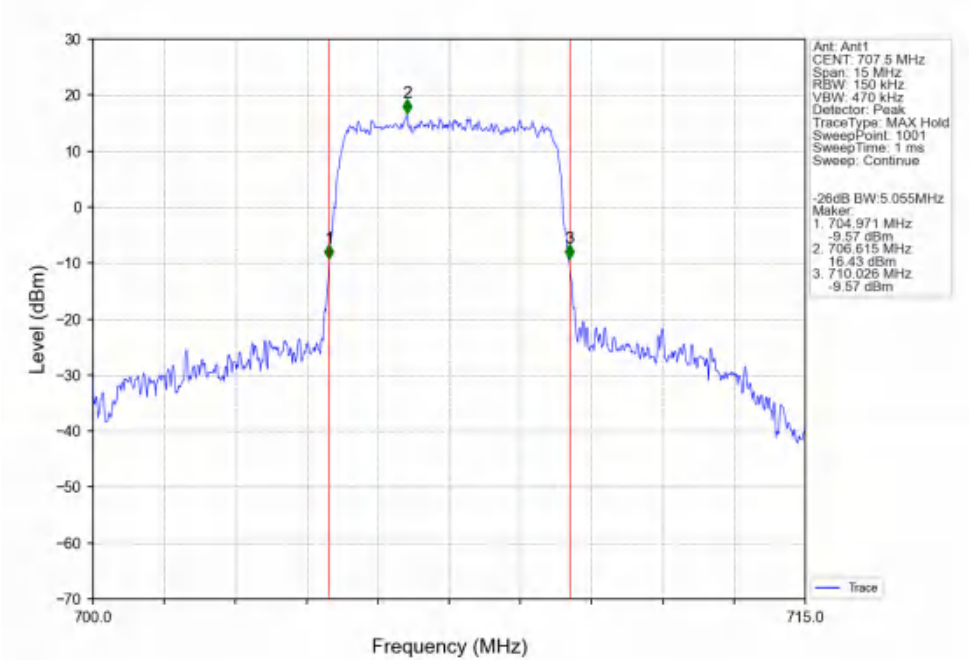
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



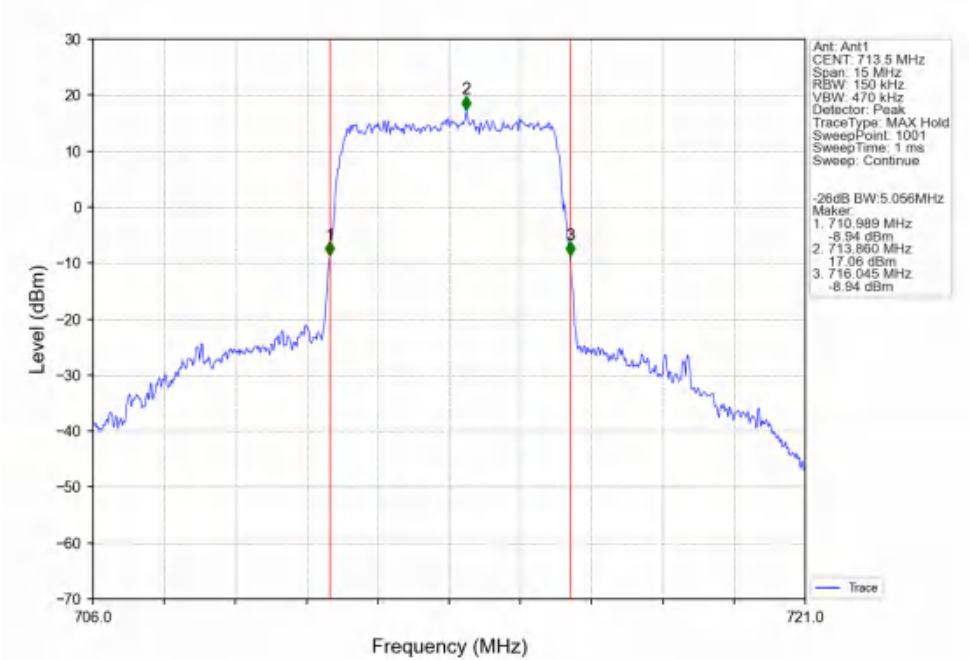
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



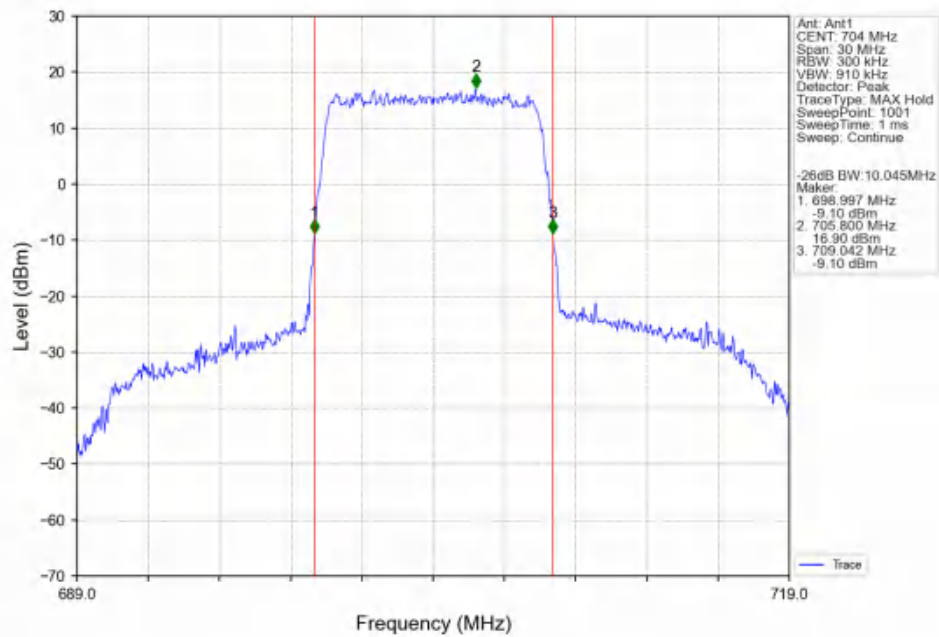
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



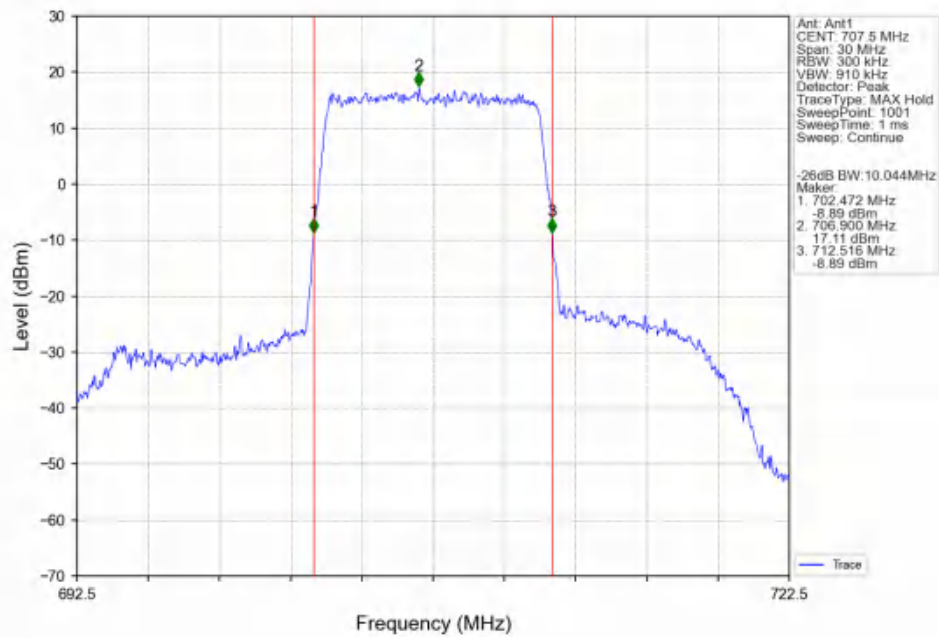
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



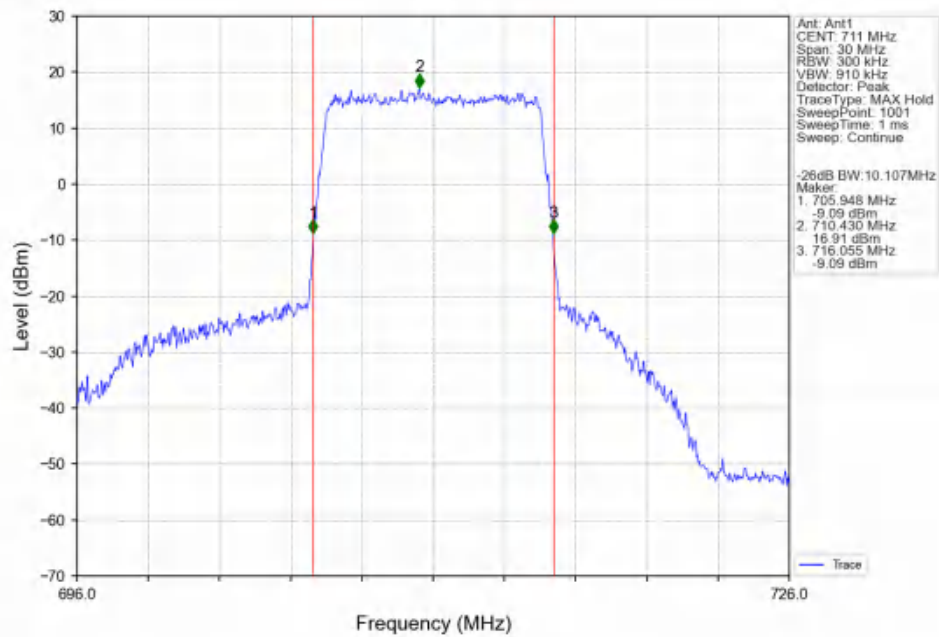
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



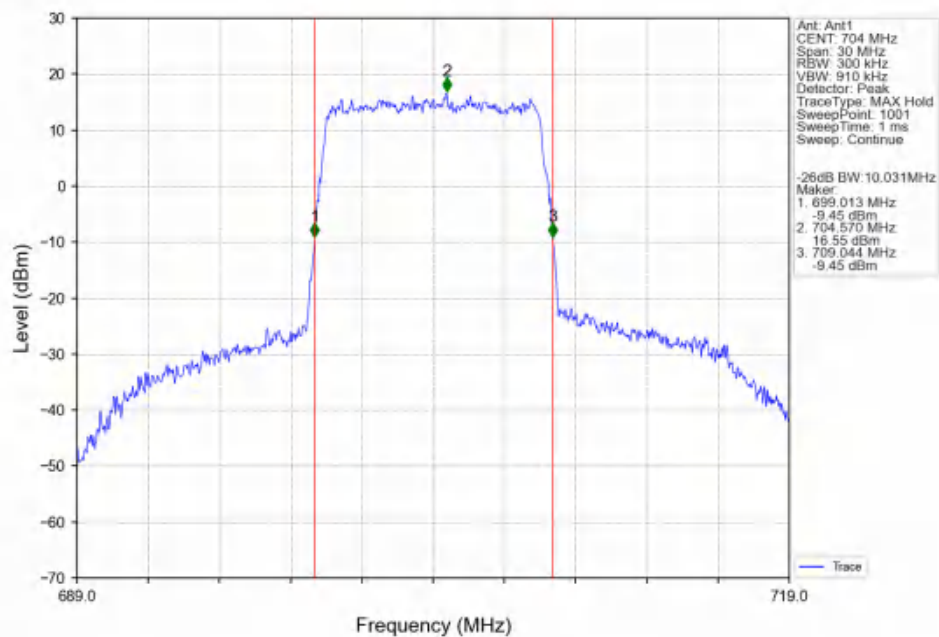
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



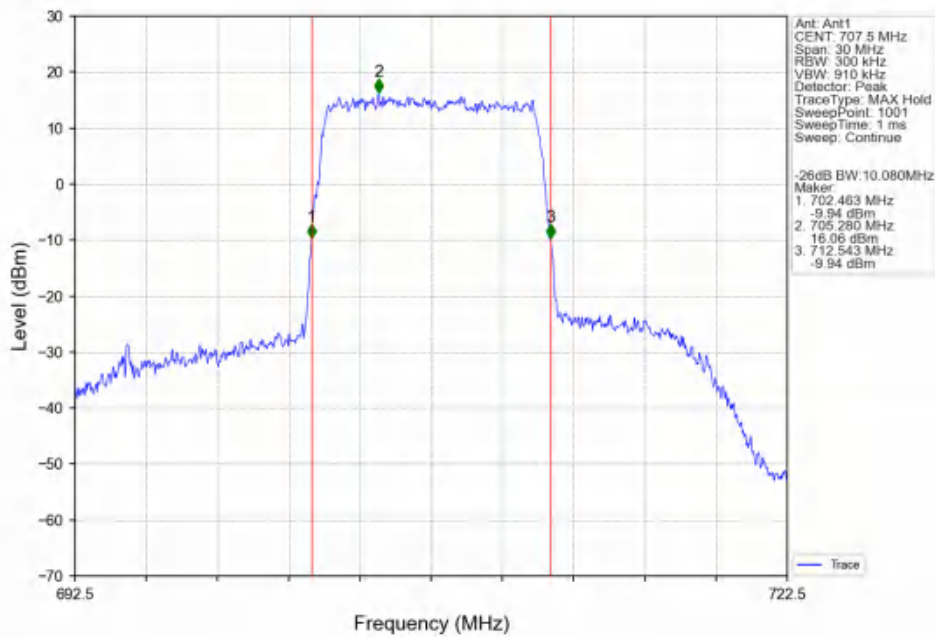
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



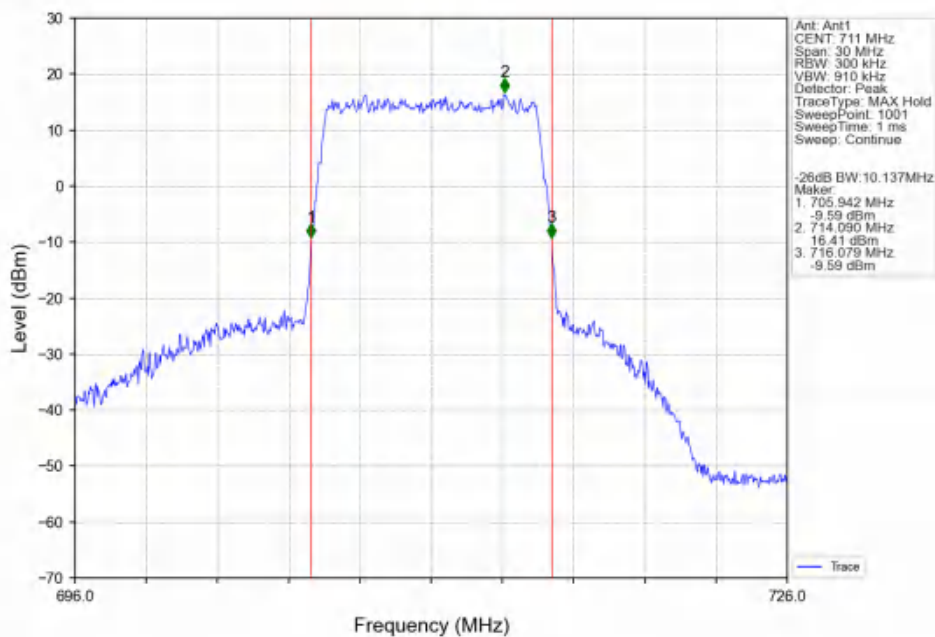
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



## 5. Peak-Average Ratio

### 5.1 Test Result

#### 5.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                         |       |         |
|-------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                     |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                                | 699.7           | 6             | 0      | 5.42                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 5.09                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 4.47                    | <=13  | Pass    |
| 16QAM                               | 699.7           | 6             | 0      | 6.19                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 6.02                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 5.44                    | <=13  | Pass    |

#### 5.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 700.5           | 15            | 0      | 5.43                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 5.21                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 5.12                    | <=13  | Pass    |
| 16QAM                             | 700.5           | 15            | 0      | 6.26                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 6.08                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 5.95                    | <=13  | Pass    |

#### 5.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 701.5           | 25            | 0      | 5.48                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 5.45                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 5.44                    | <=13  | Pass    |
| 16QAM                             | 701.5           | 25            | 0      | 6.32                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 6.16                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 6.16                    | <=13  | Pass    |

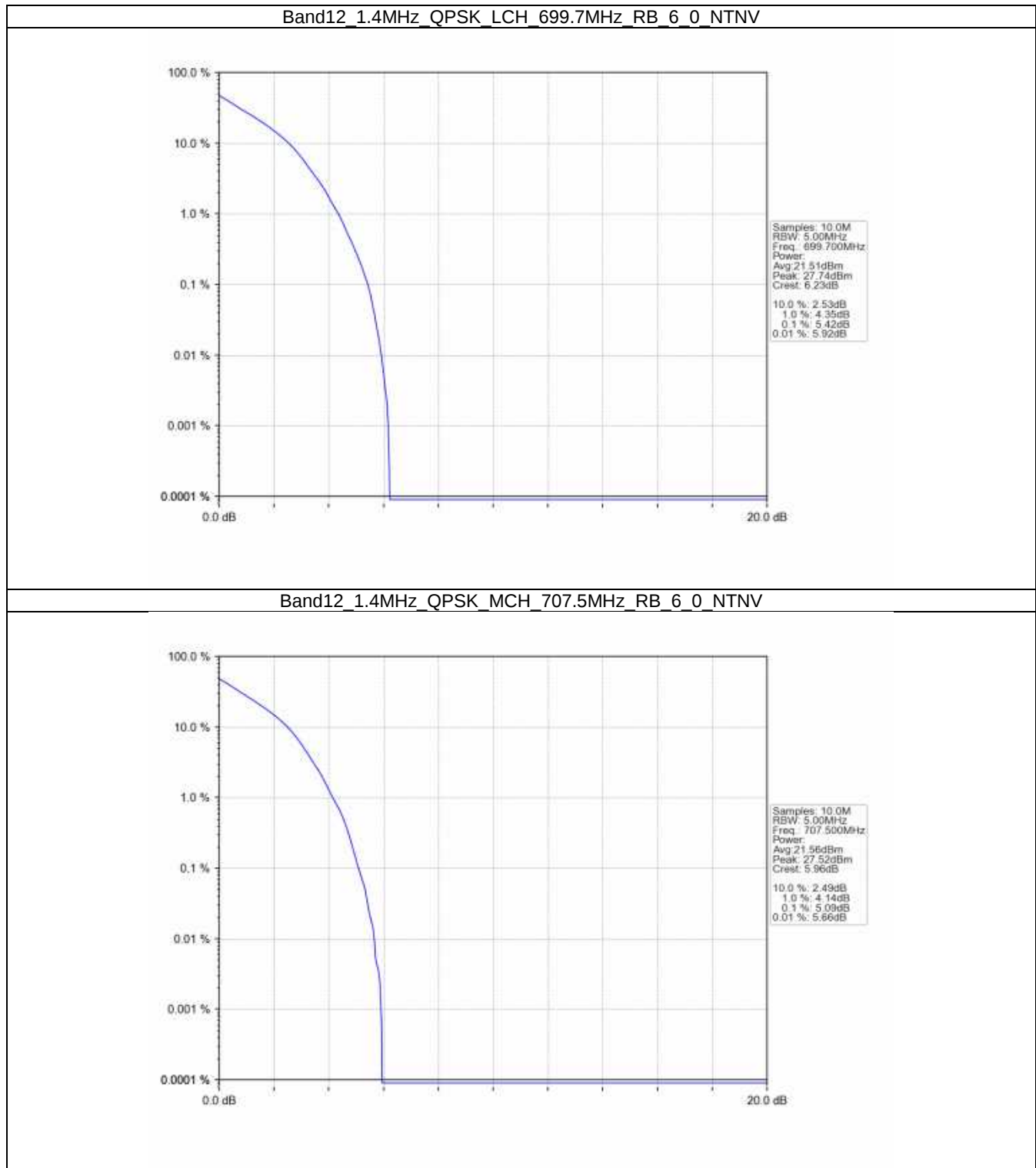
#### 5.1.4 B12\_10MHz

| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 704             | 50            | 0      | 5.47                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 5.48                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 5.52                    | <=13  | Pass    |
| 16QAM                              | 704             | 50            | 0      | 6.24                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 6.24                    | <=13  | Pass    |

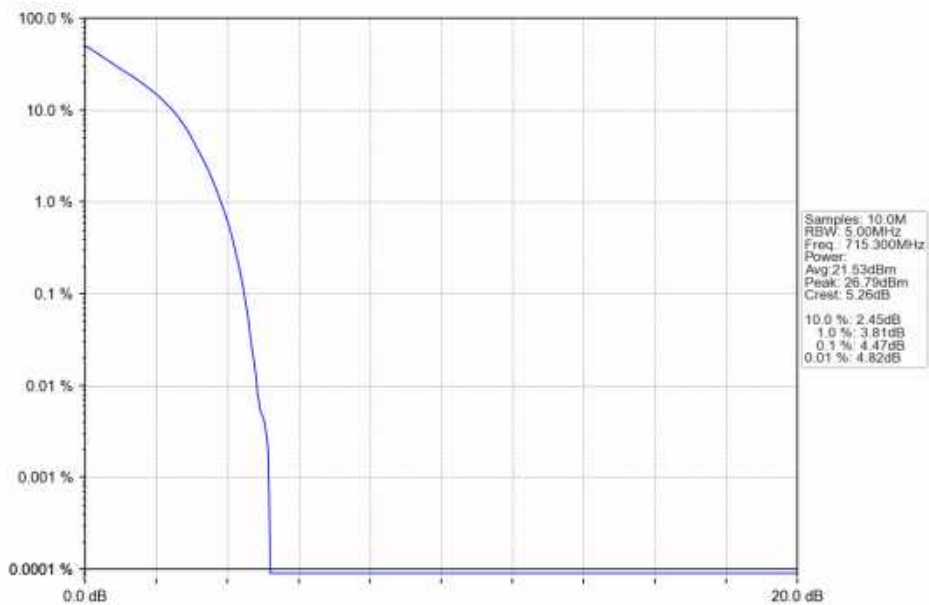
|  |     |    |   |      |      |      |
|--|-----|----|---|------|------|------|
|  | 711 | 50 | 0 | 6.24 | <=13 | Pass |
|--|-----|----|---|------|------|------|

## 5.2 Test Graph

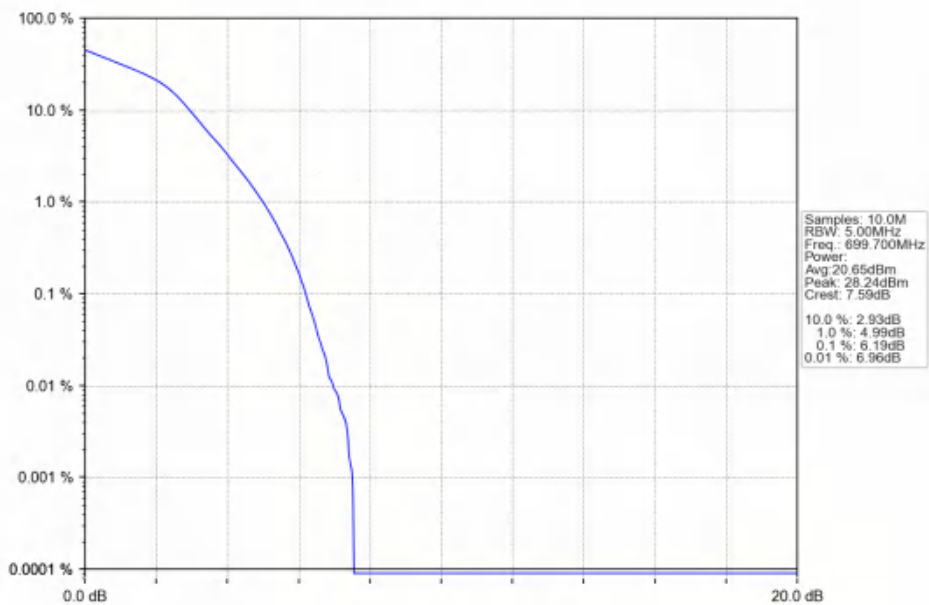
### 5.2.1 B12\_1.4MHz



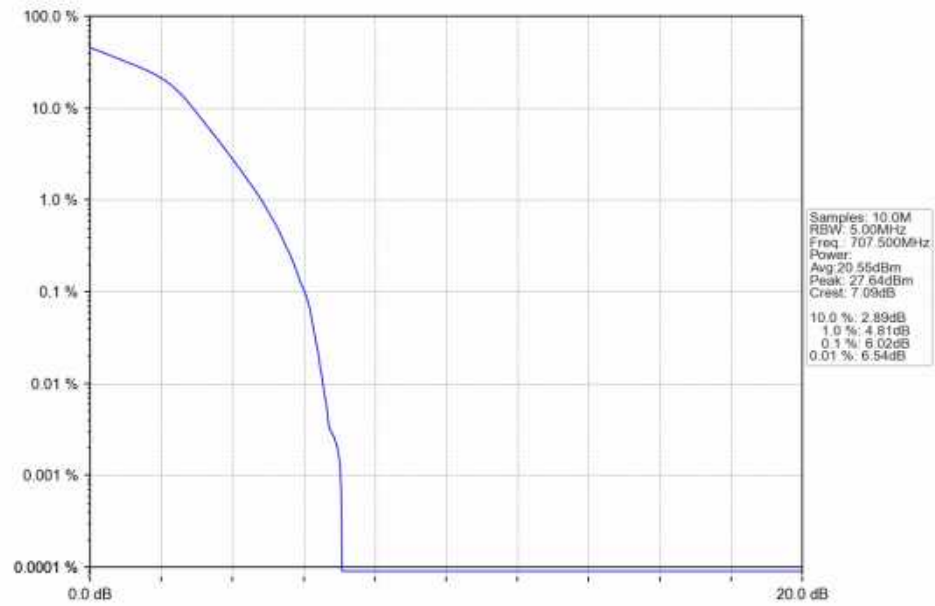
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



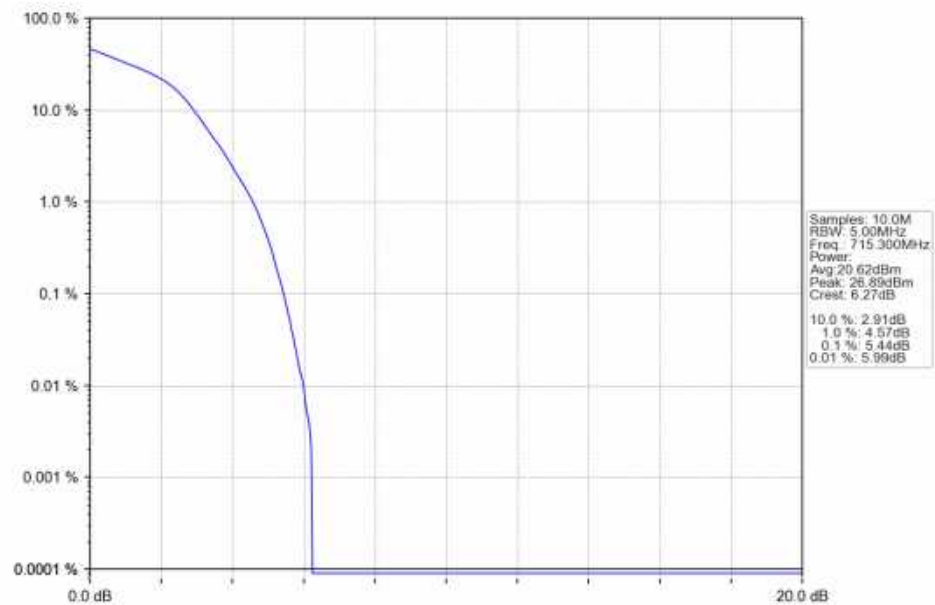
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



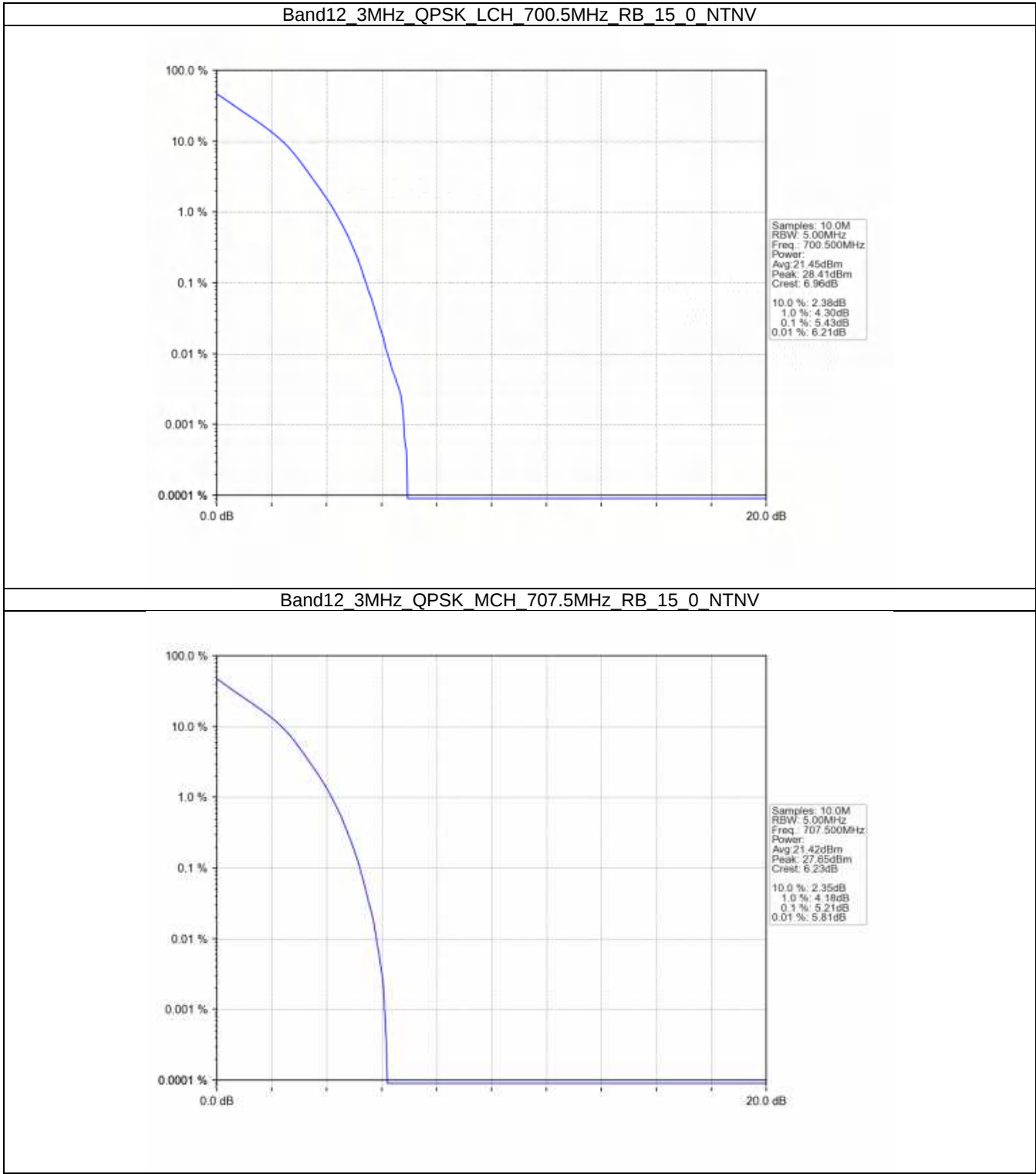
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6\_0 NTNV



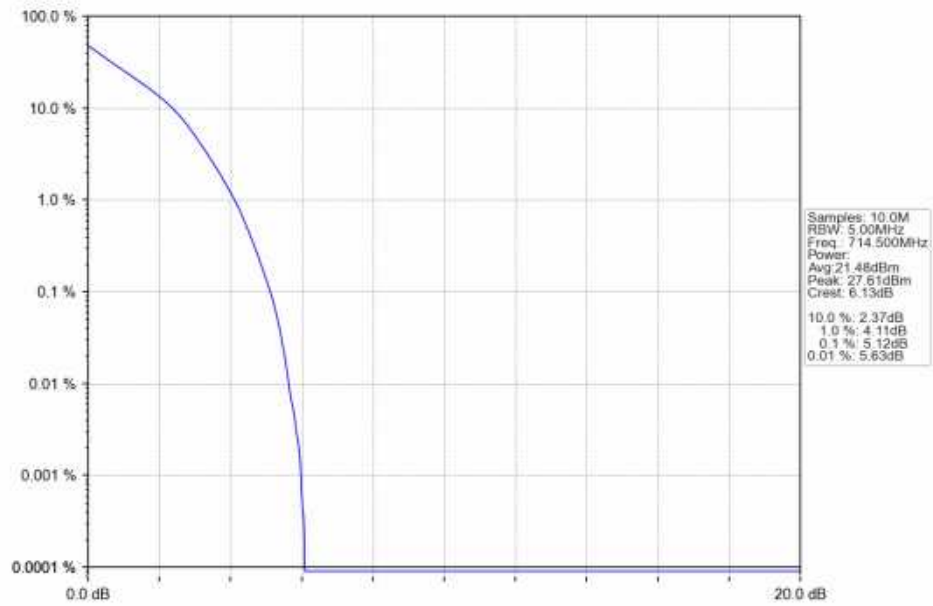
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6\_0 NTNV



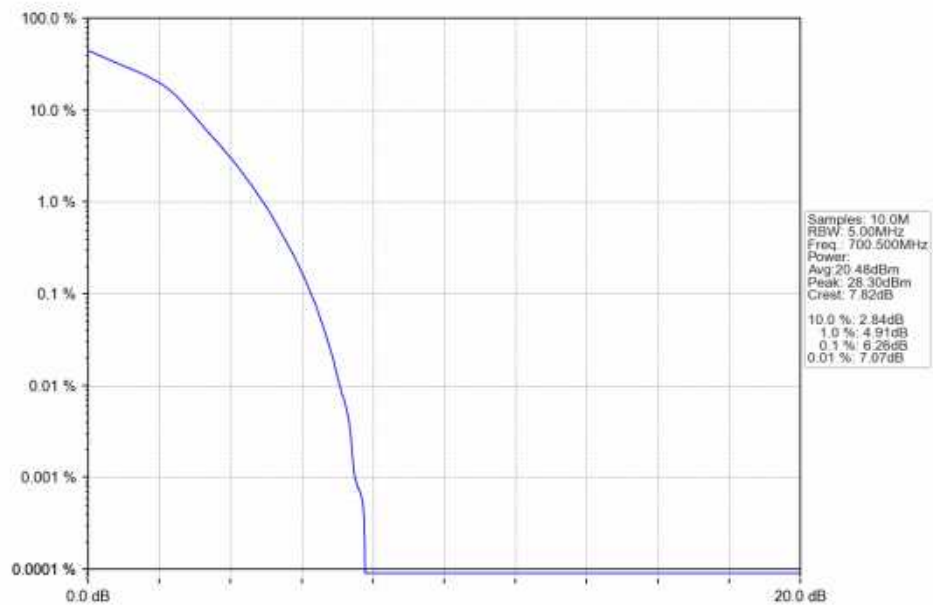
5.2.2 B12\_3MHz



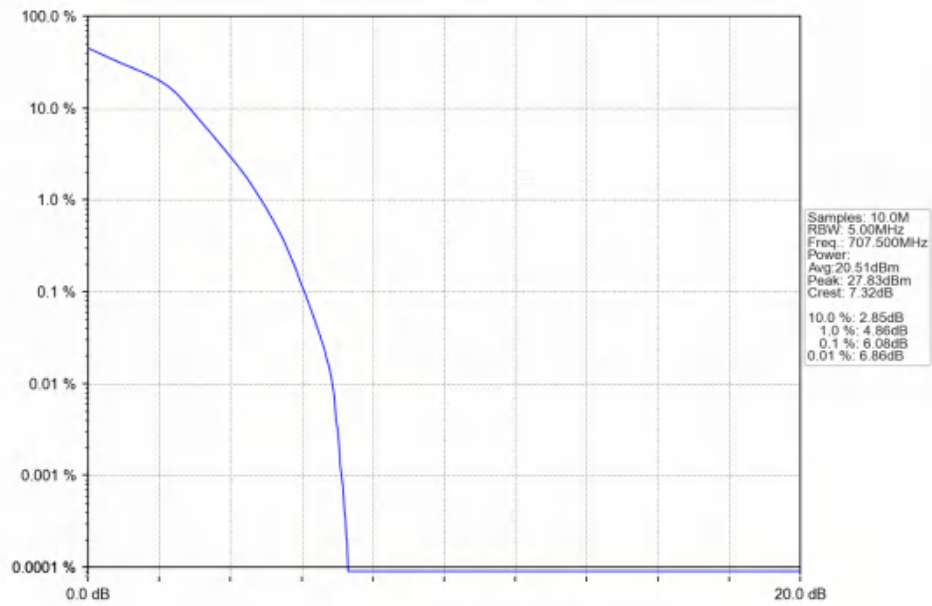
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



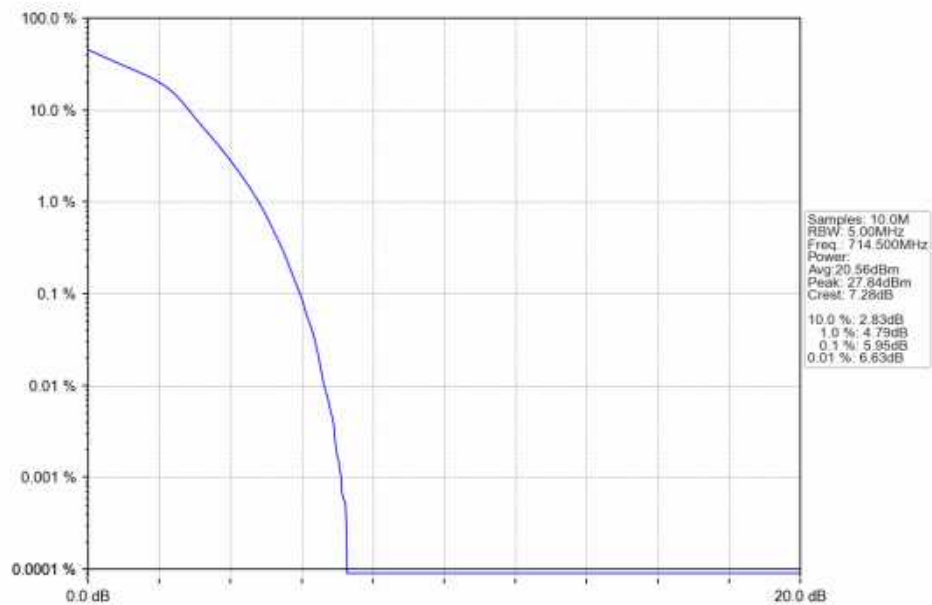
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV

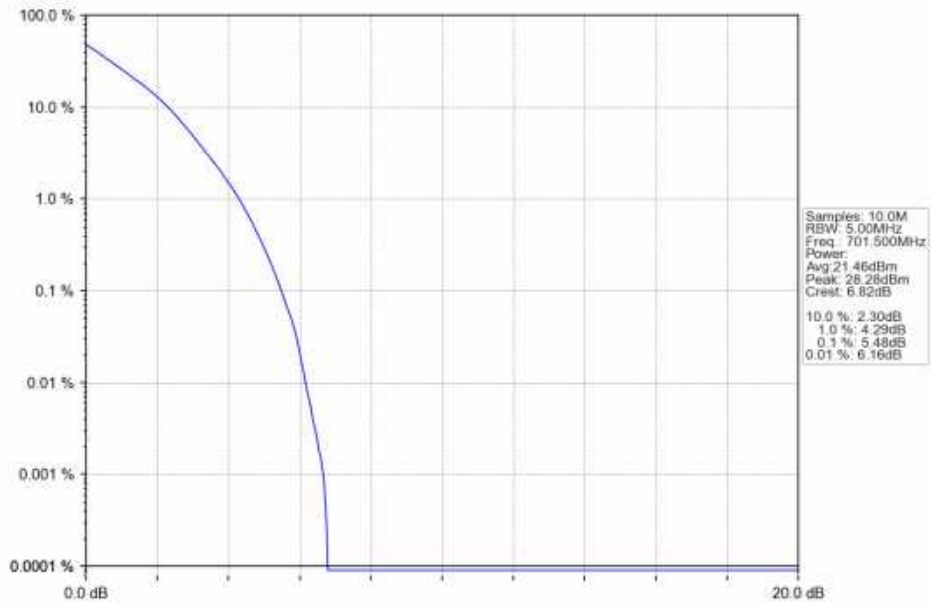


Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

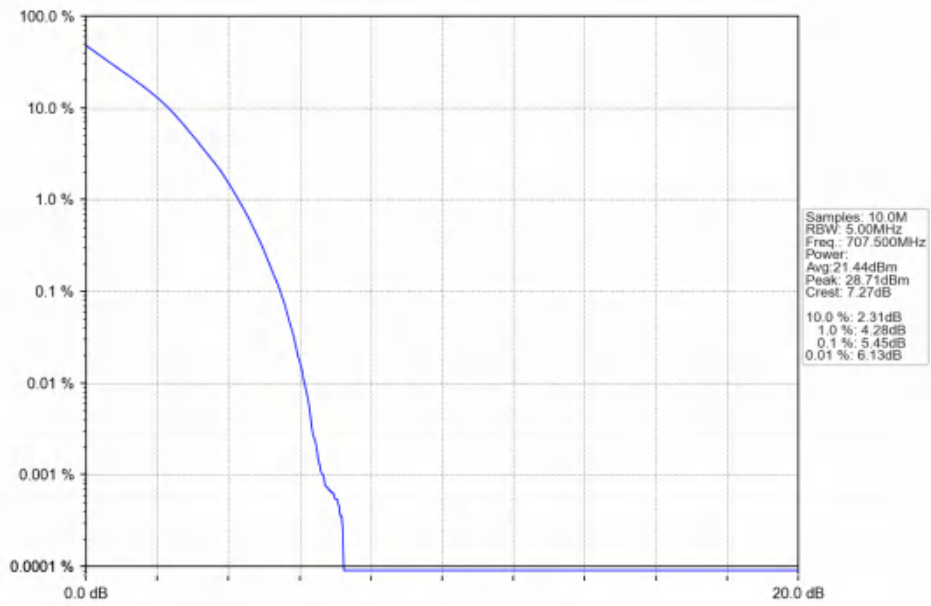


### 5.2.3 B12\_5MHz

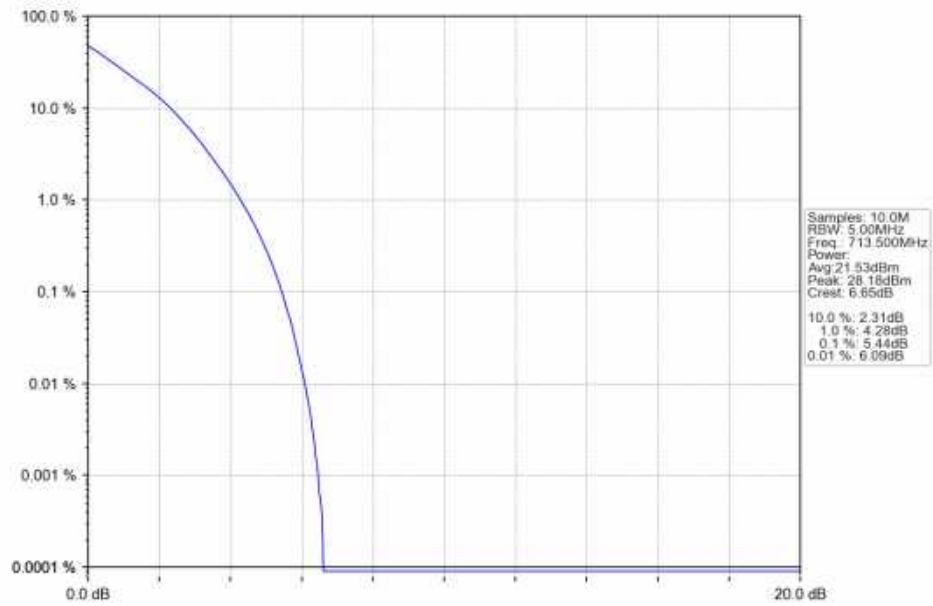
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



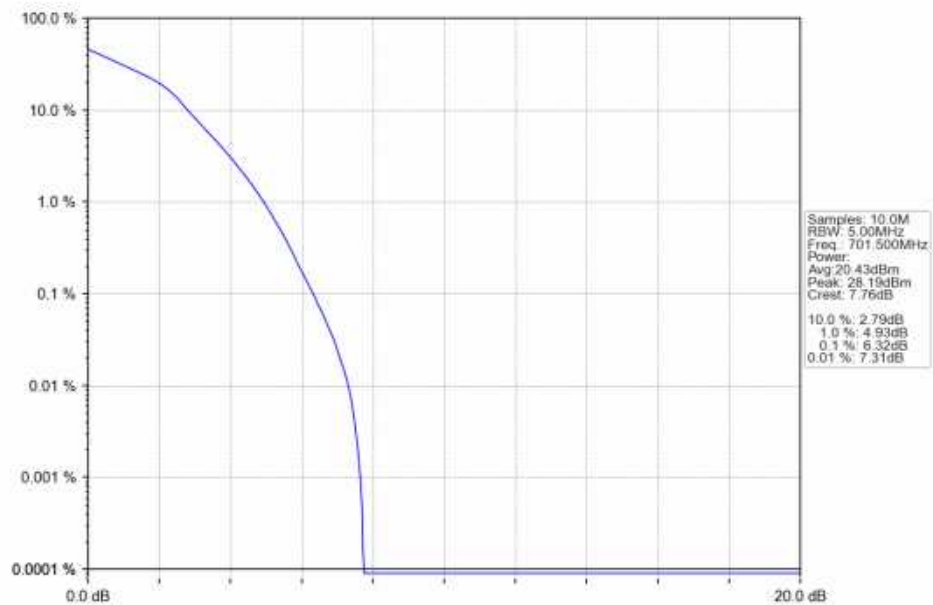
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



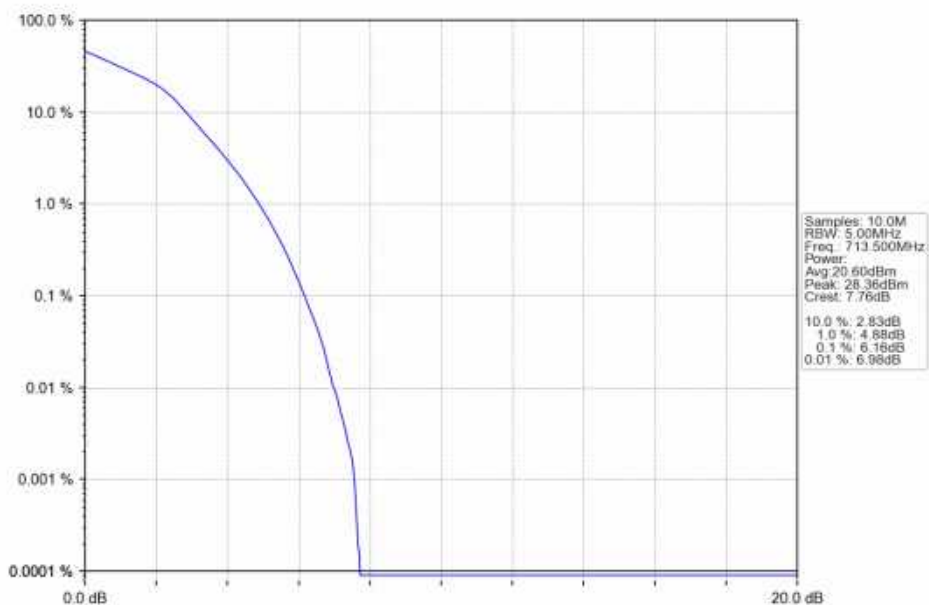
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



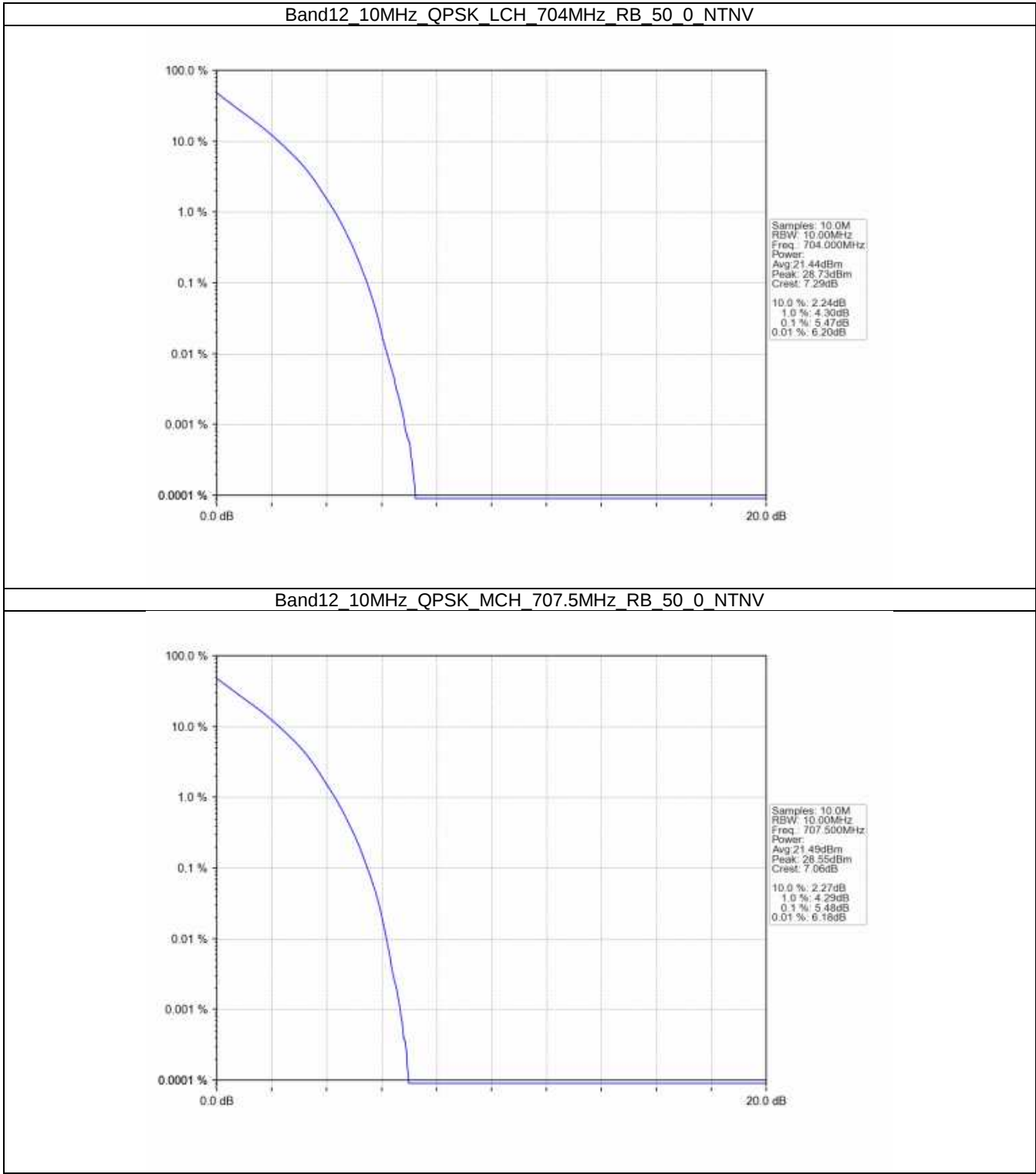
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



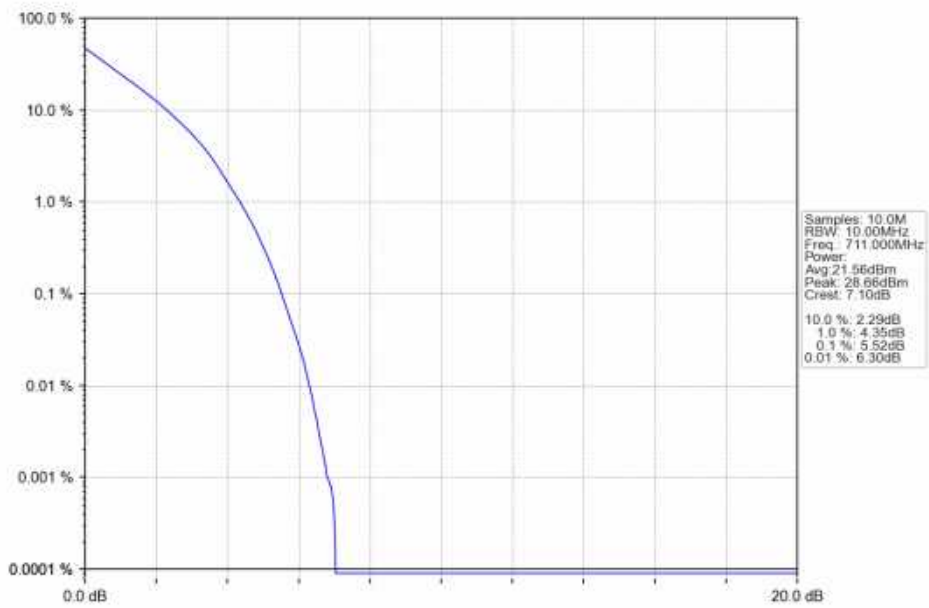
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



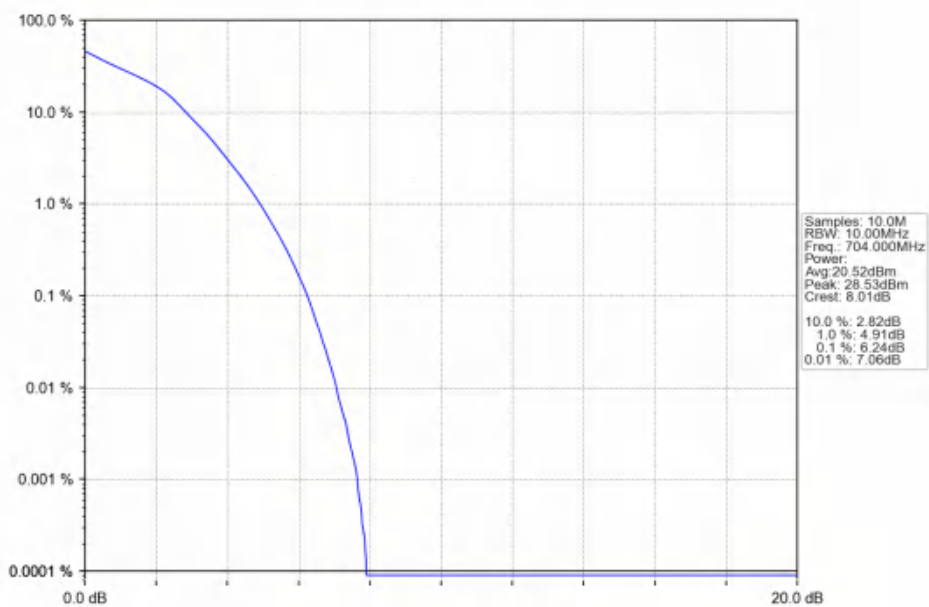
5.2.4 B12\_10MHz



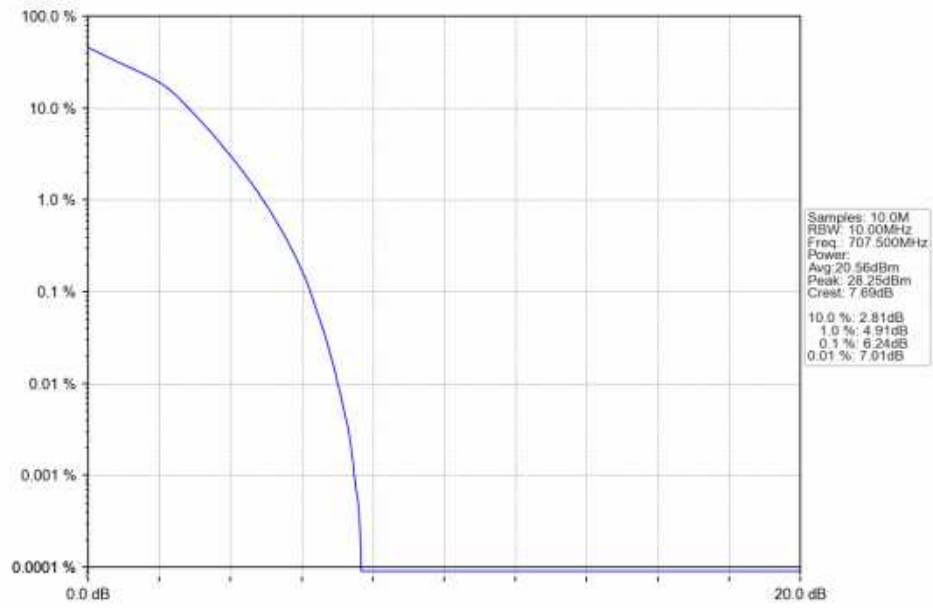
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



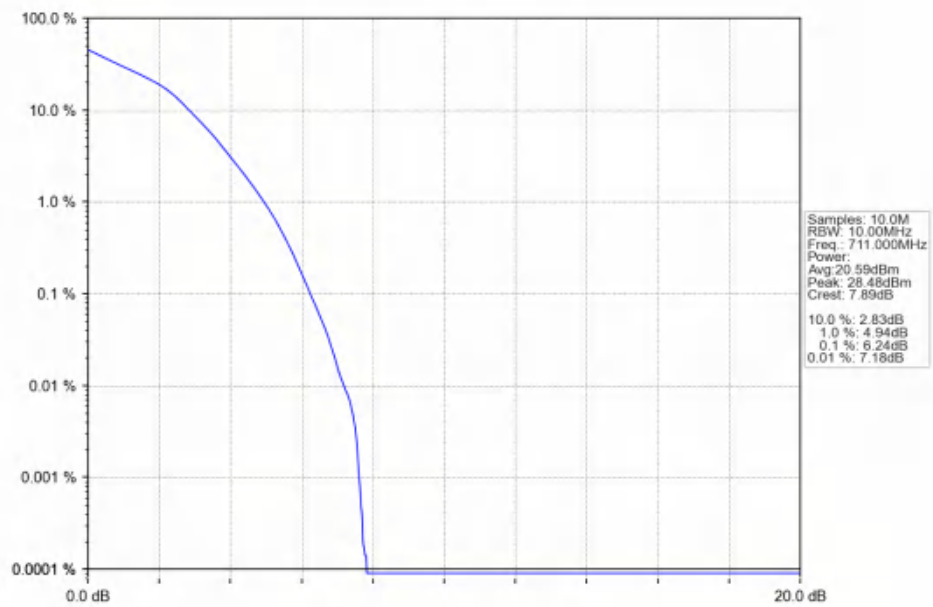
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



## 6. Spurious Emission

### 6.1 Test Result

#### 6.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                     |       |         |
|-------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                     |                 | Size          | Offset | Result              | Limit |         |
| QPSK                                | 699.7           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 715.3           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 |               | 5      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                               | 699.7           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 715.3           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     |                 |               | 5      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |

#### 6.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTVN |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                   |                 | Size          | Offset | Result              | Limit |         |
| QPSK                              | 700.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 714.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 14     | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                             | 700.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 714.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 14     | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |

#### 6.1.3 B12\_5MHz

| Band: 12 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 701.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 707.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 713.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

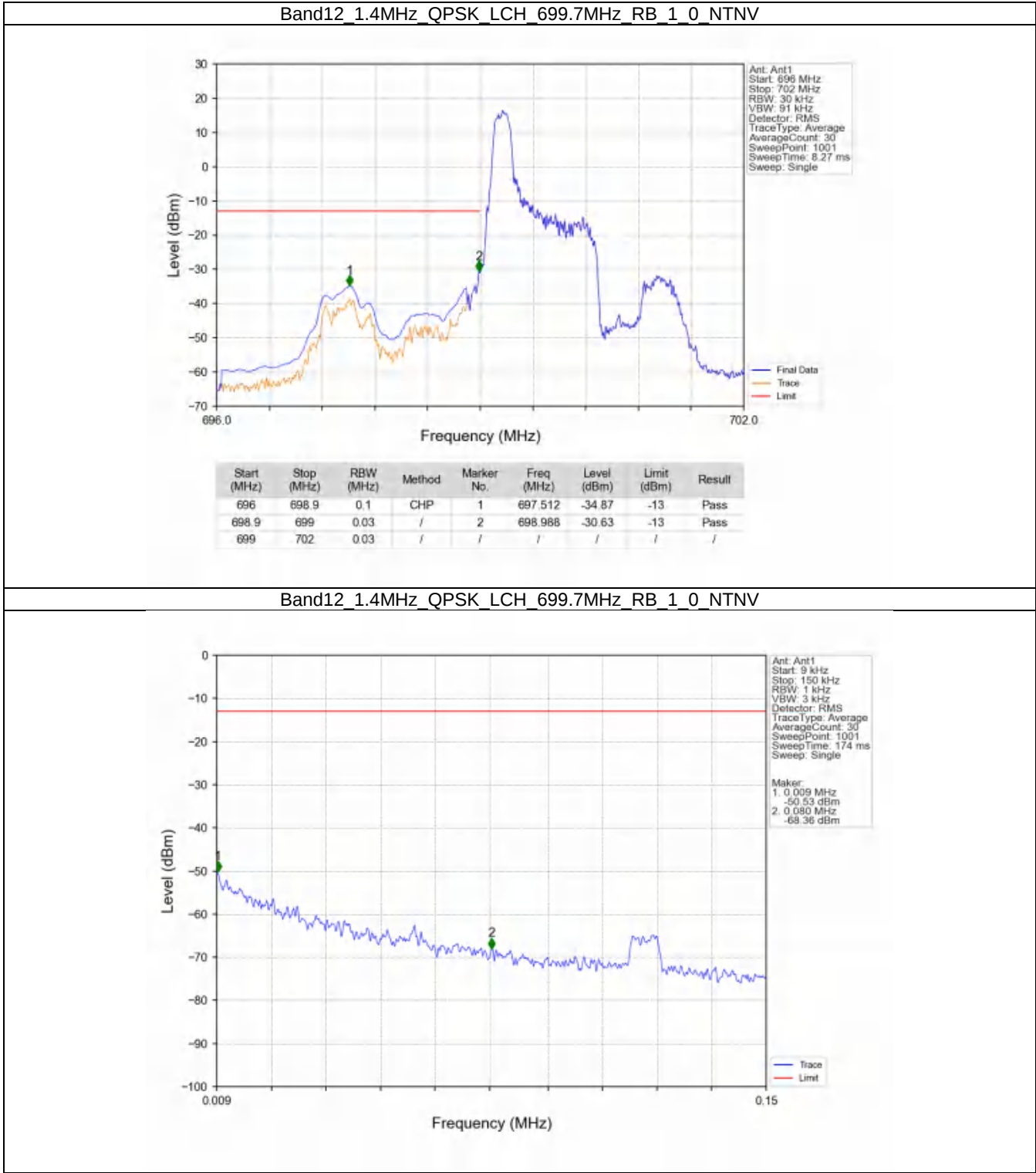
|       |       |    |    |                     |      |
|-------|-------|----|----|---------------------|------|
| 16QAM | 701.5 | 1  | 0  | Refer To Test Graph | Pass |
|       |       | 25 | 0  | Refer To Test Graph | Pass |
|       | 707.5 | 1  | 0  | Refer To Test Graph | Pass |
|       | 713.5 | 1  | 0  | Refer To Test Graph | Pass |
|       |       |    | 24 | Refer To Test Graph | Pass |
|       |       | 25 | 0  | Refer To Test Graph | Pass |

#### 6.1.4 B12\_10MHz

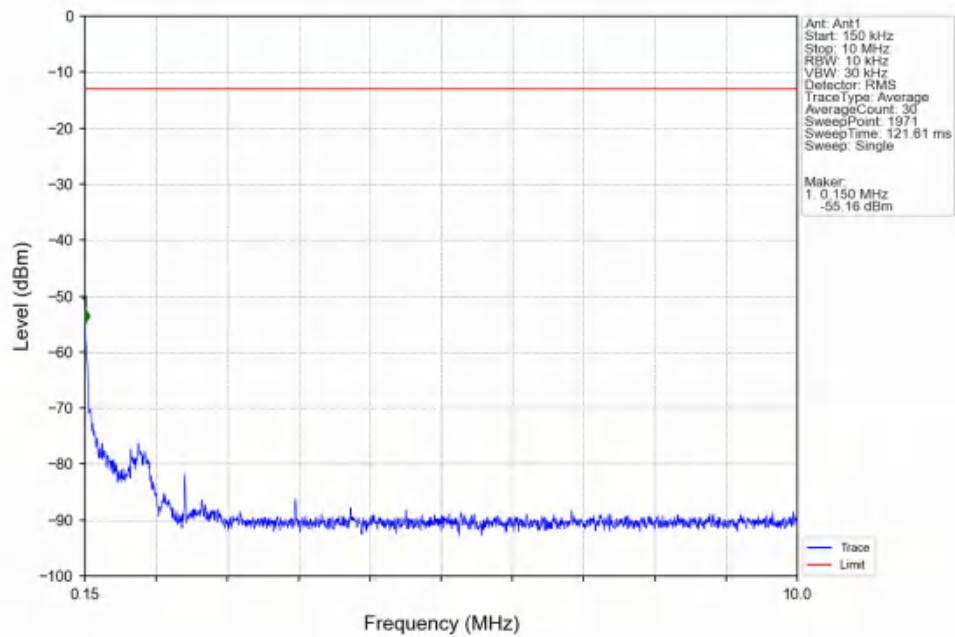
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                    |                 | Size          | Offset | Result              | Limit |
| QPSK                               | 704             | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 | 50            | 0      | Refer To Test Graph | Pass  |
|                                    | 707.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                    | 711             | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 |               | 49     | Refer To Test Graph | Pass  |
|                                    |                 | 50            | 0      | Refer To Test Graph | Pass  |
| 16QAM                              | 704             | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 | 50            | 0      | Refer To Test Graph | Pass  |
|                                    | 707.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                    | 711             | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 |               | 49     | Refer To Test Graph | Pass  |
|                                    |                 | 50            | 0      | Refer To Test Graph | Pass  |

6.2 Test Graph

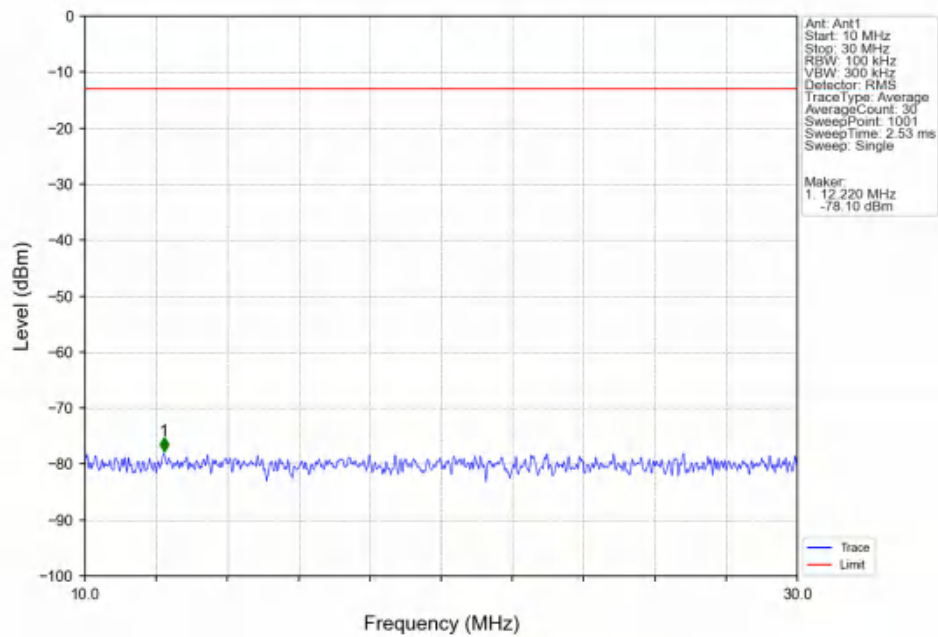
6.2.1 B12\_1.4MHz



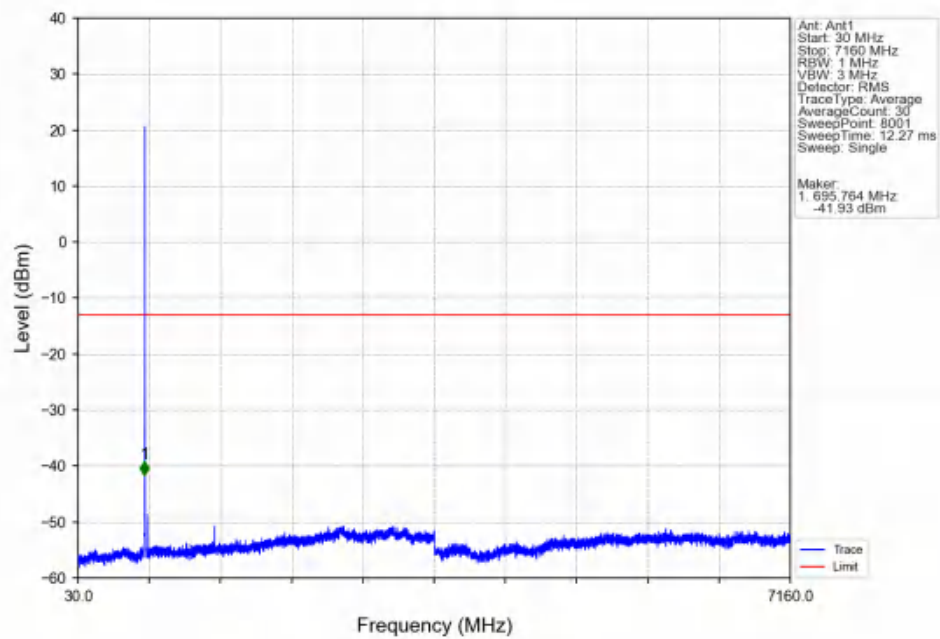
Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



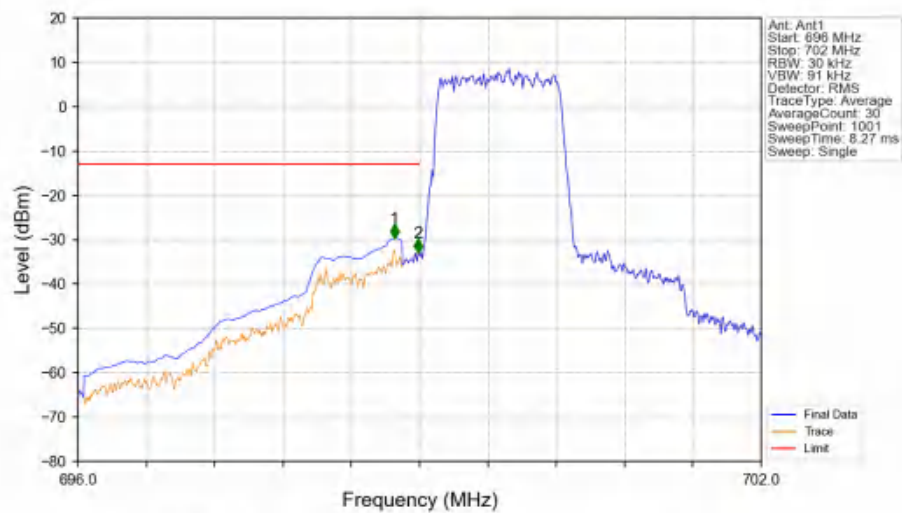
Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

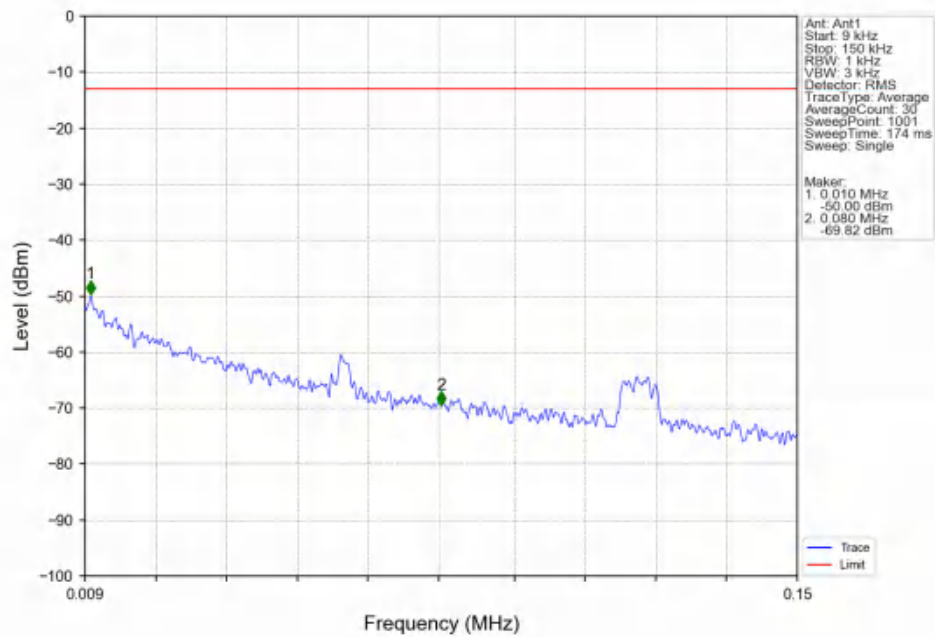


Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

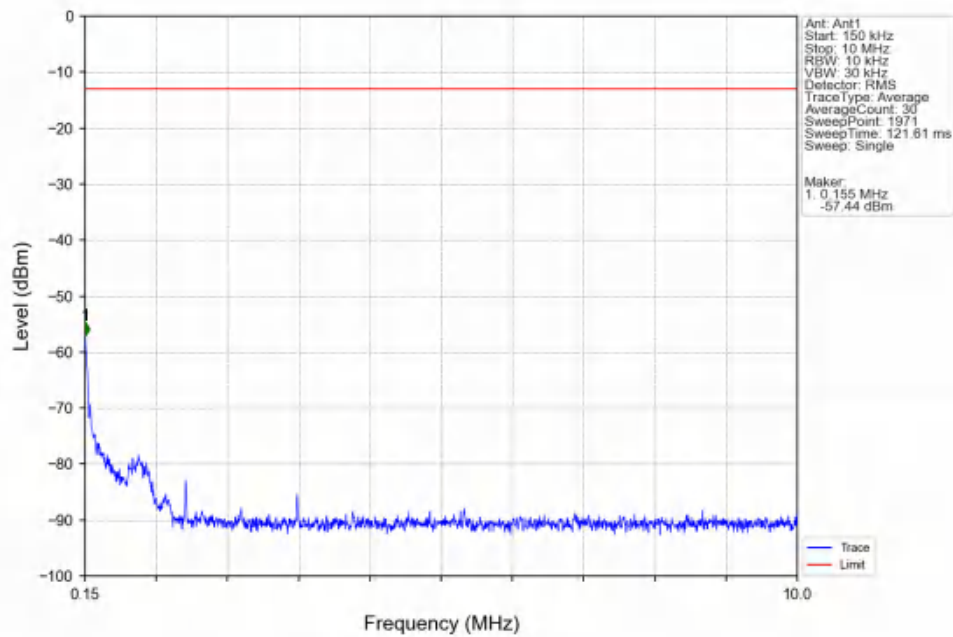


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.778    | -29.65      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.988    | -32.97      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

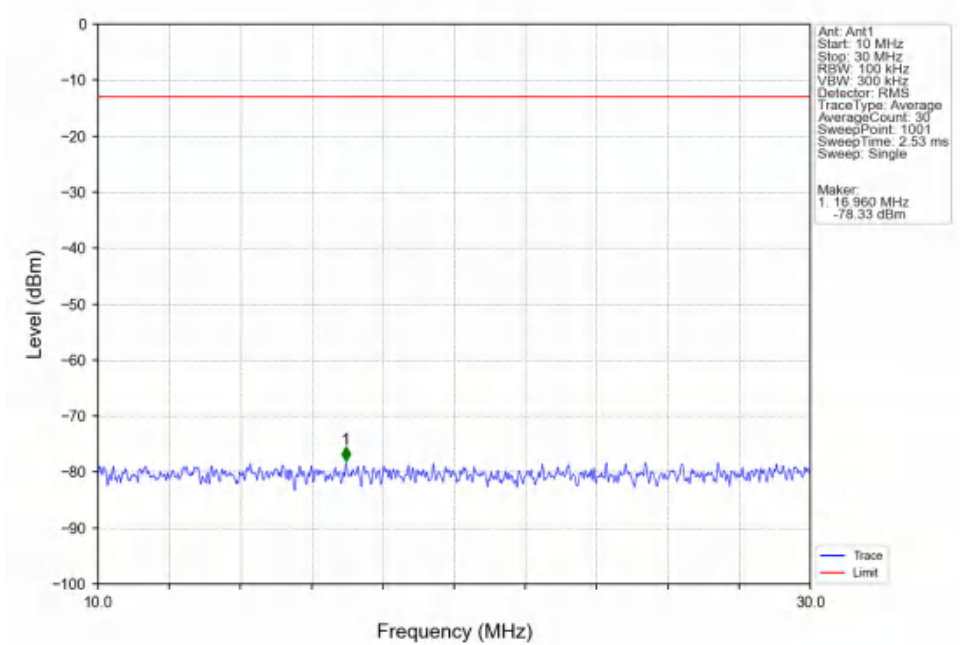
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



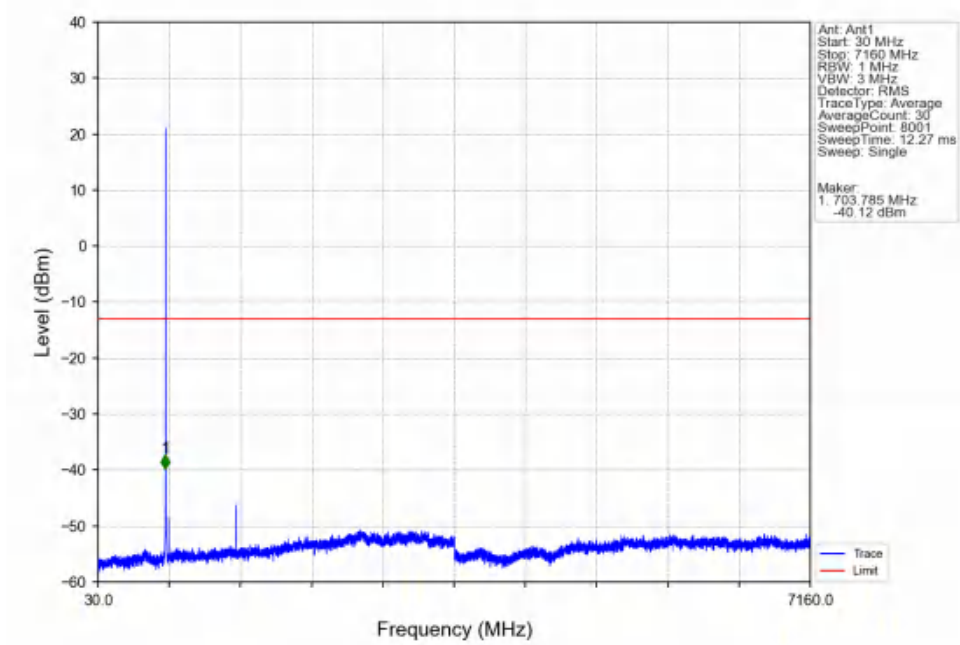
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



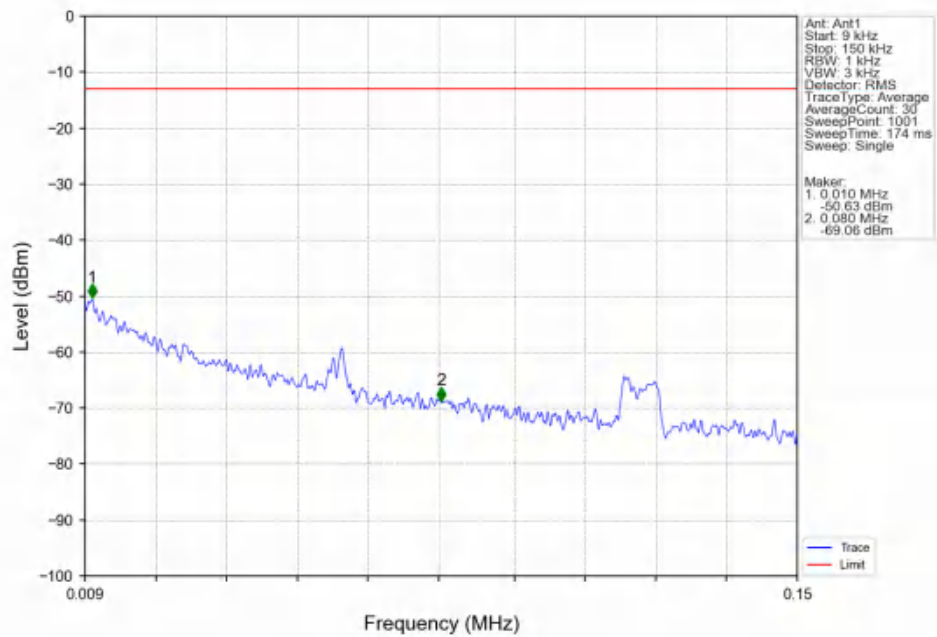
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



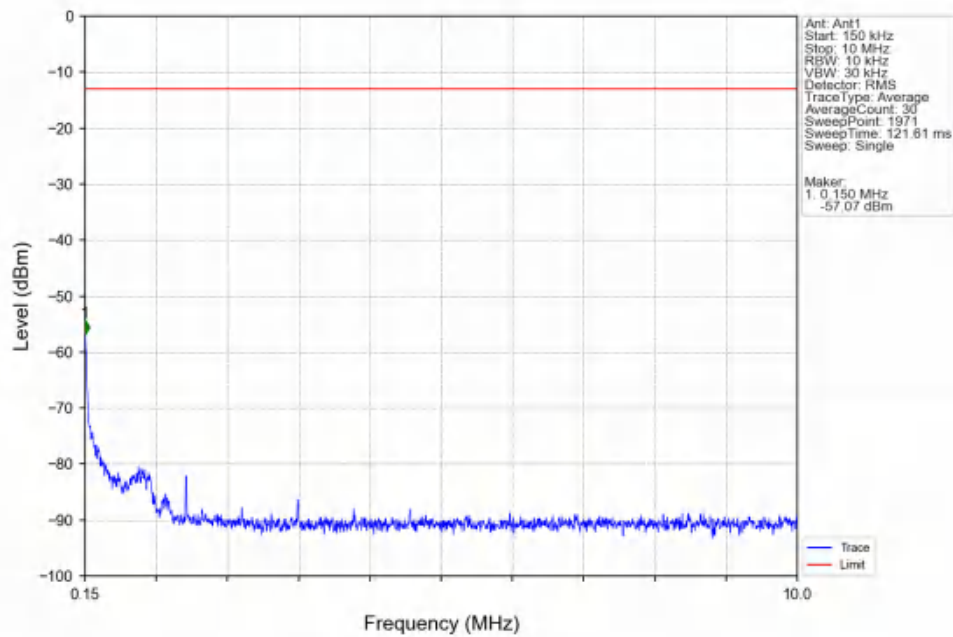
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



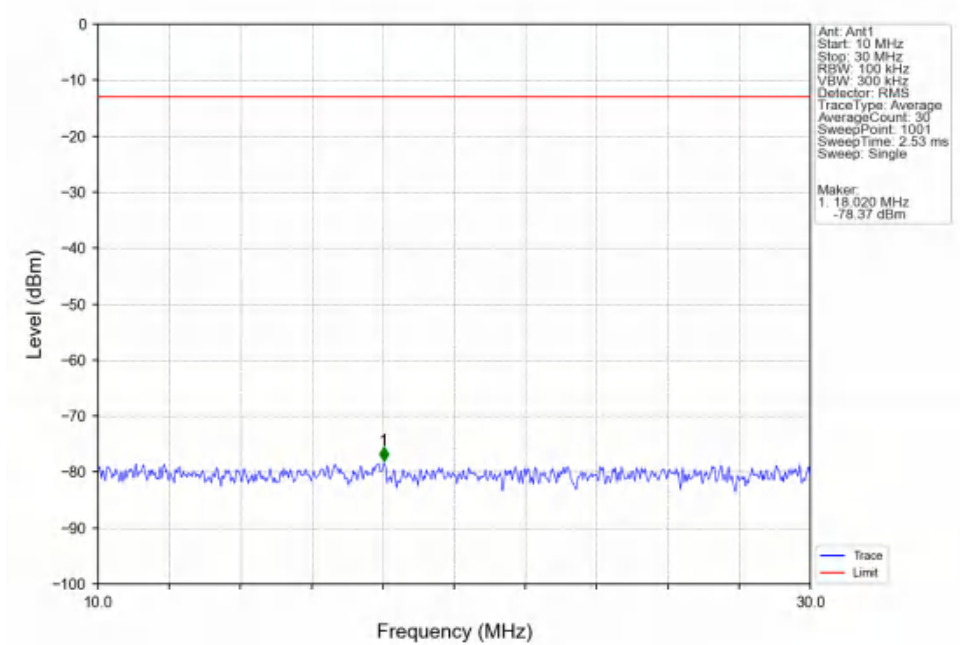
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



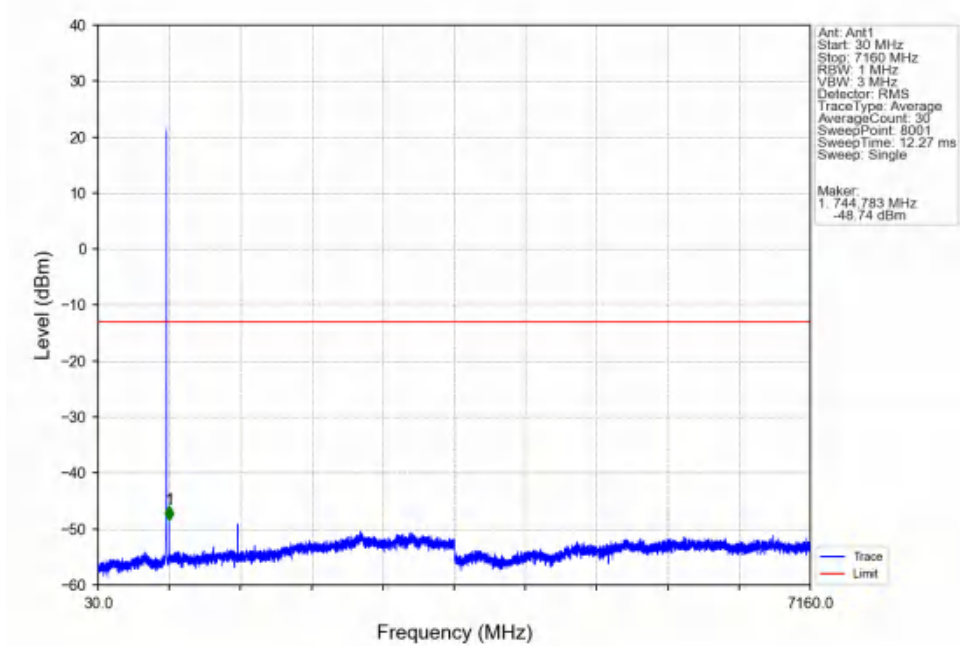
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



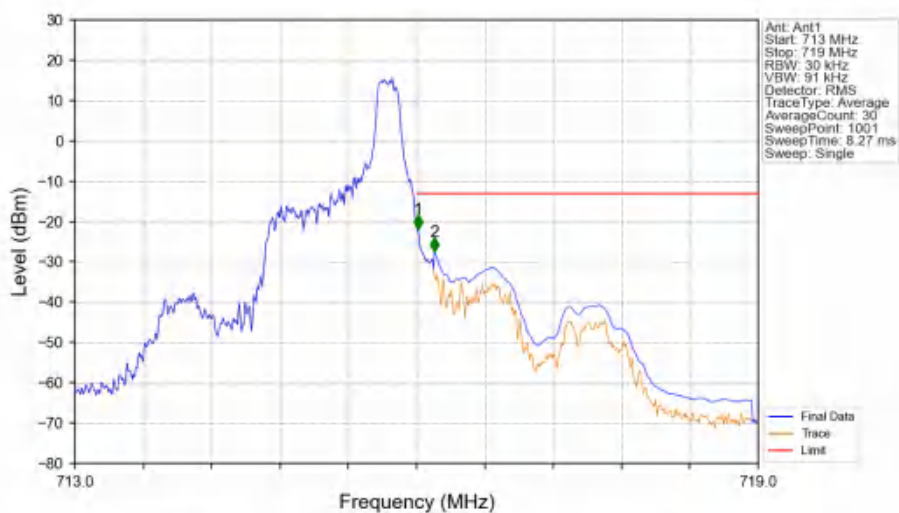
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV

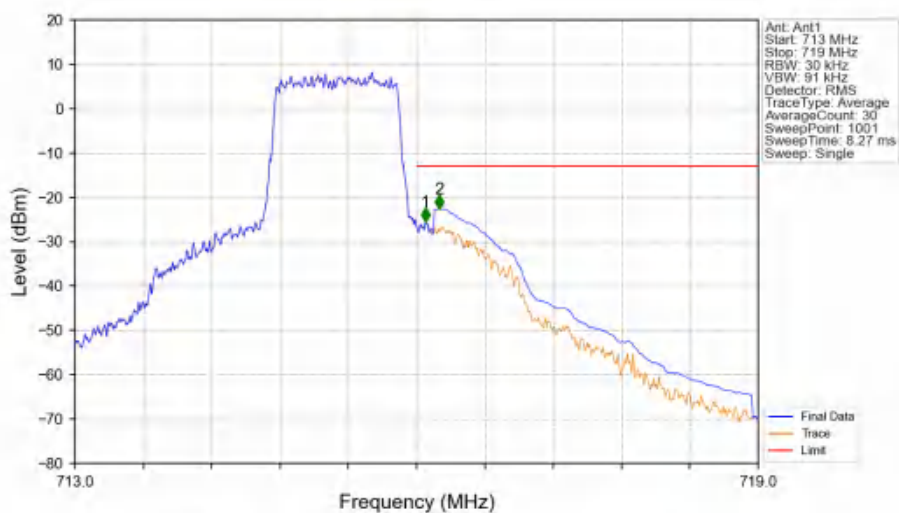


Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



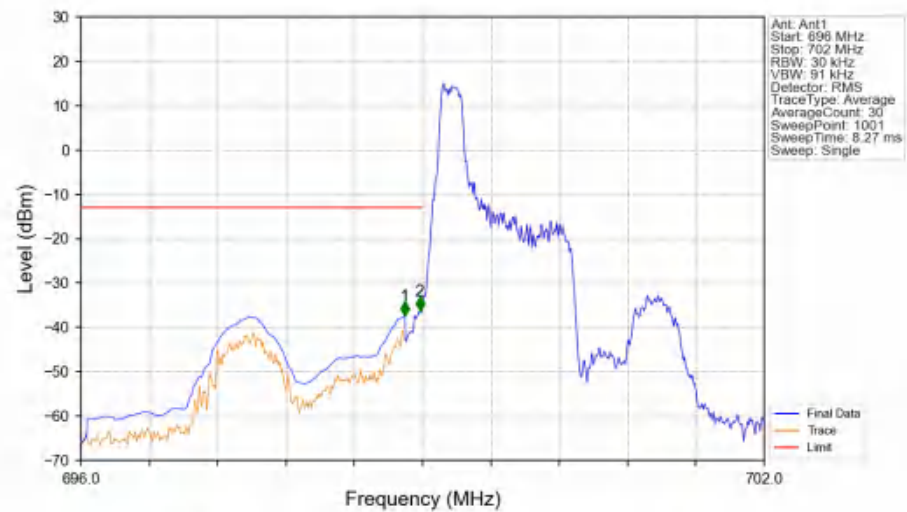
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.012    | -21.93      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -27.53      | -13         | Pass   |

Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



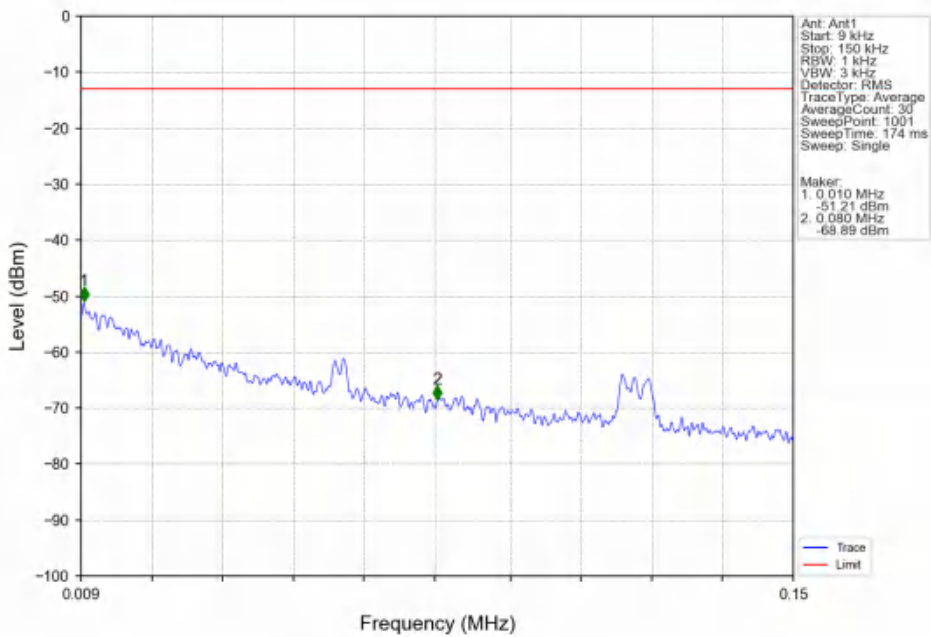
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.078    | -25.54      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.198    | -22.62      | -13         | Pass   |

Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

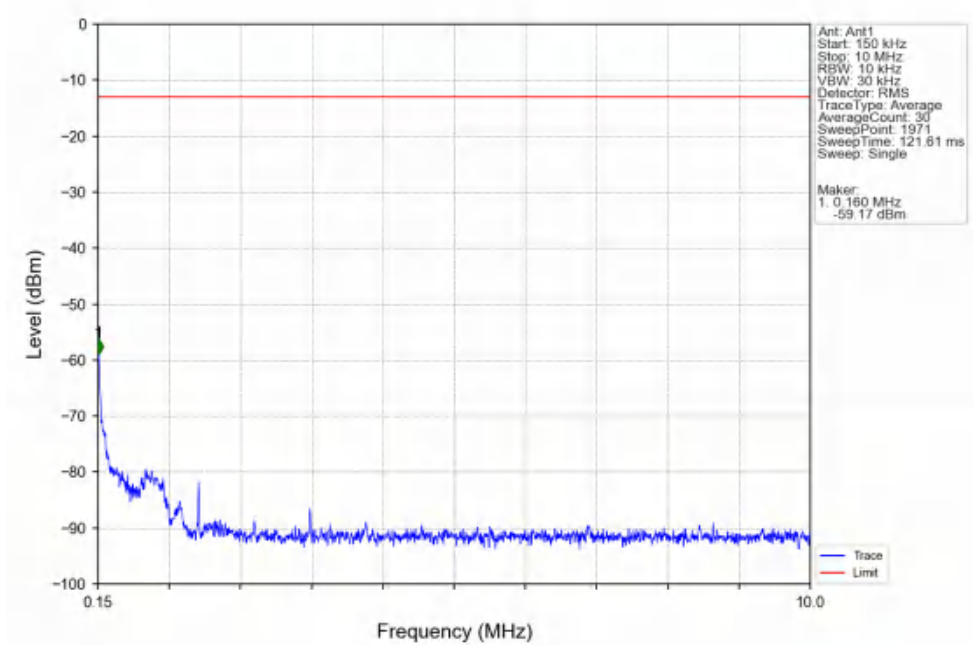


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -37.30      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.976    | -36.22      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

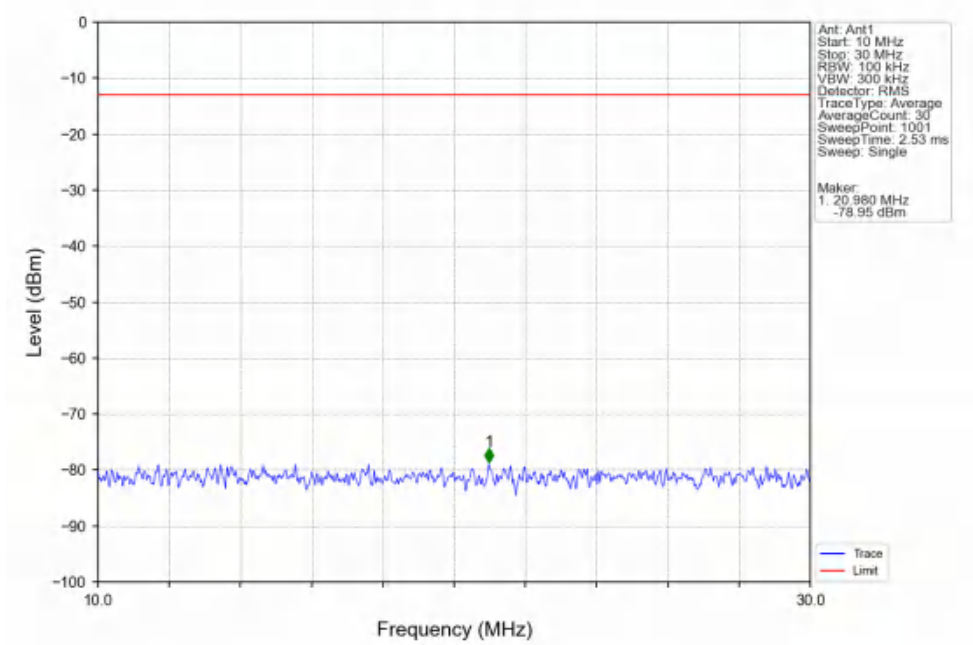
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



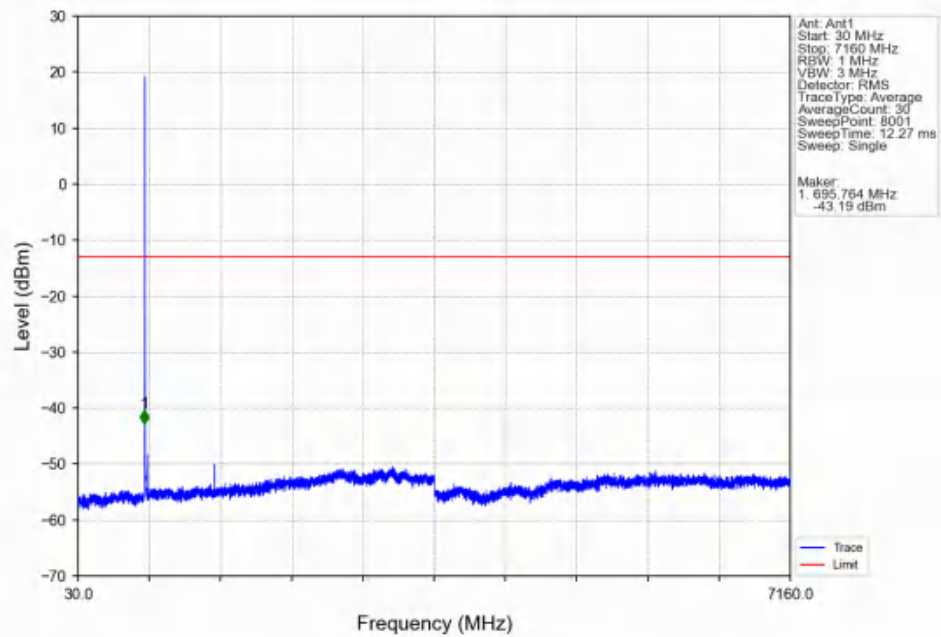
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



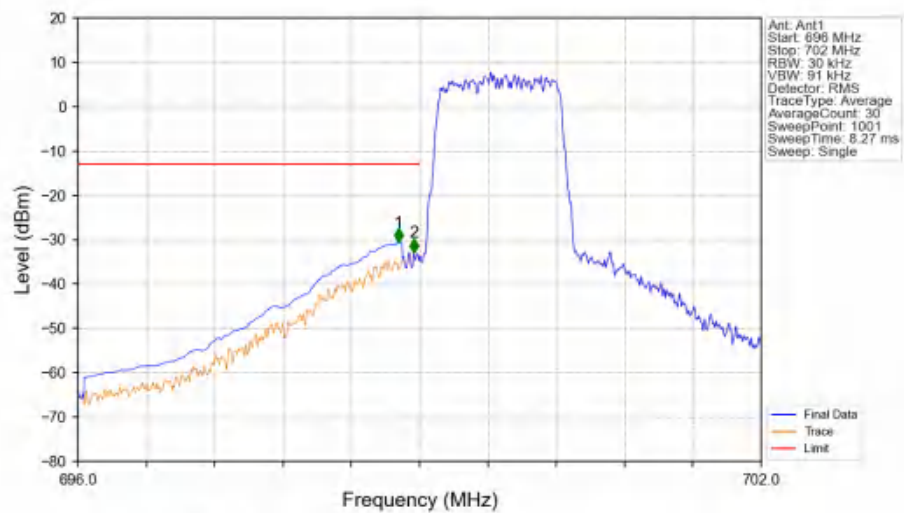
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



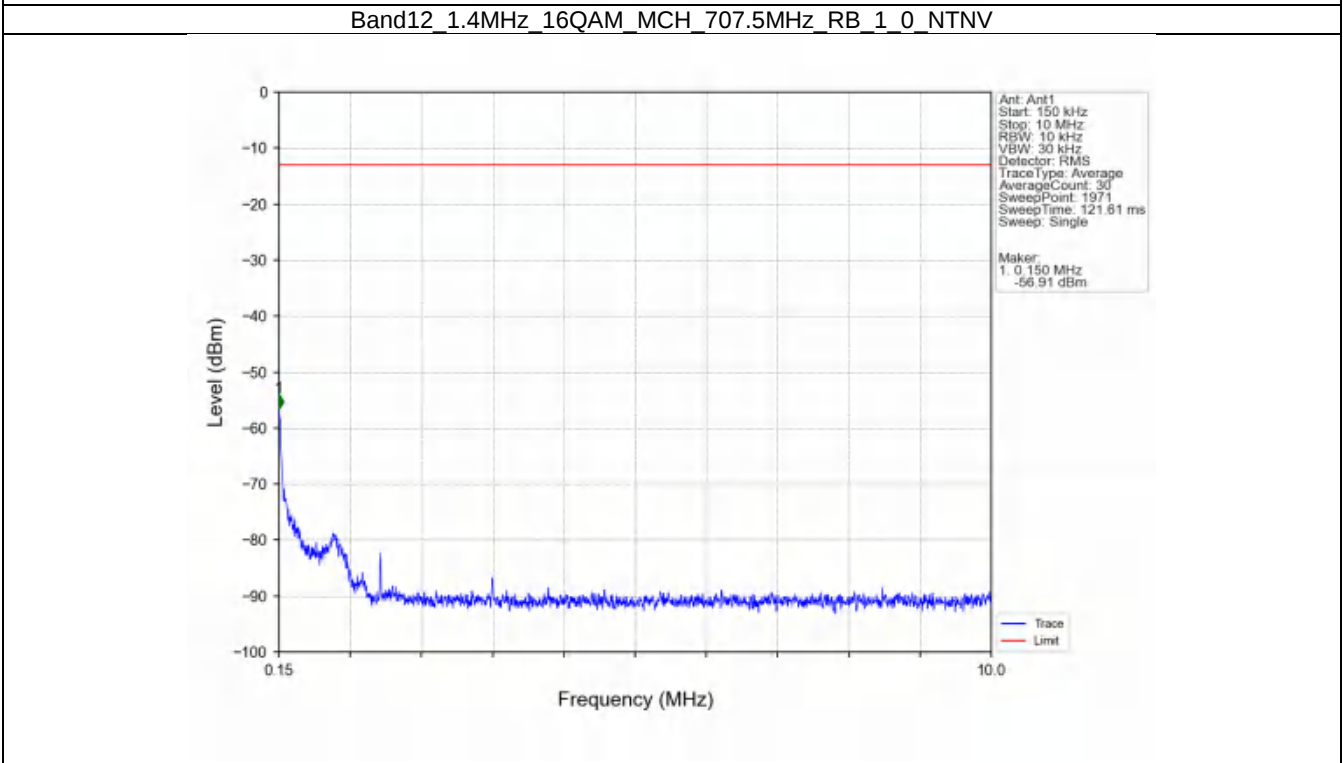
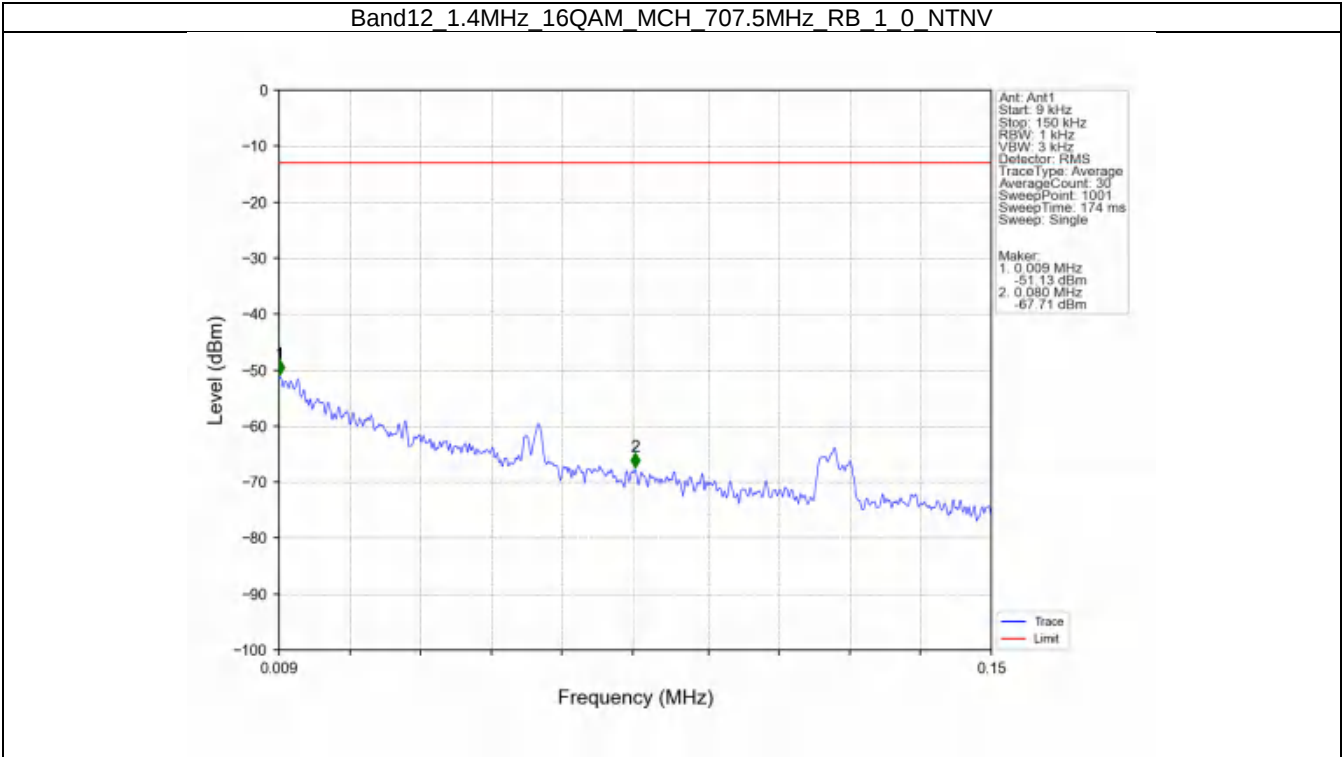
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

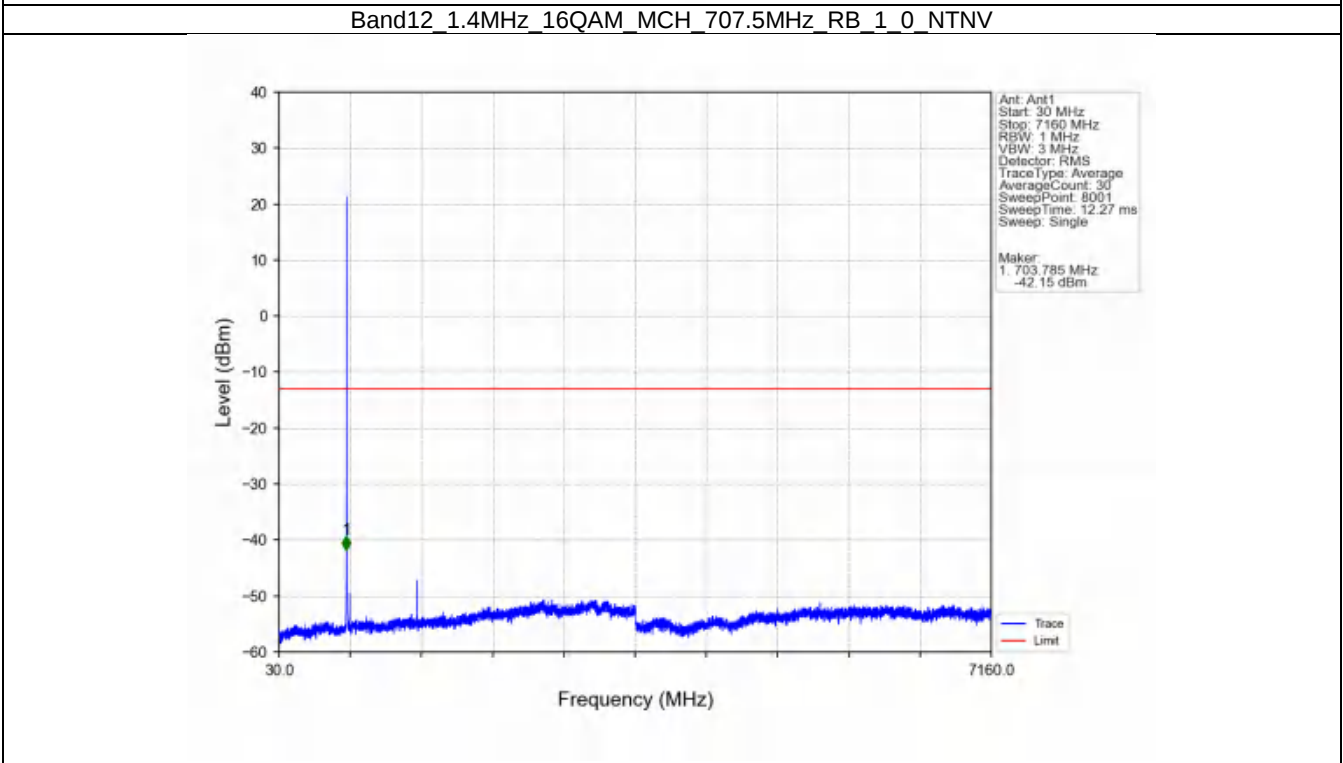
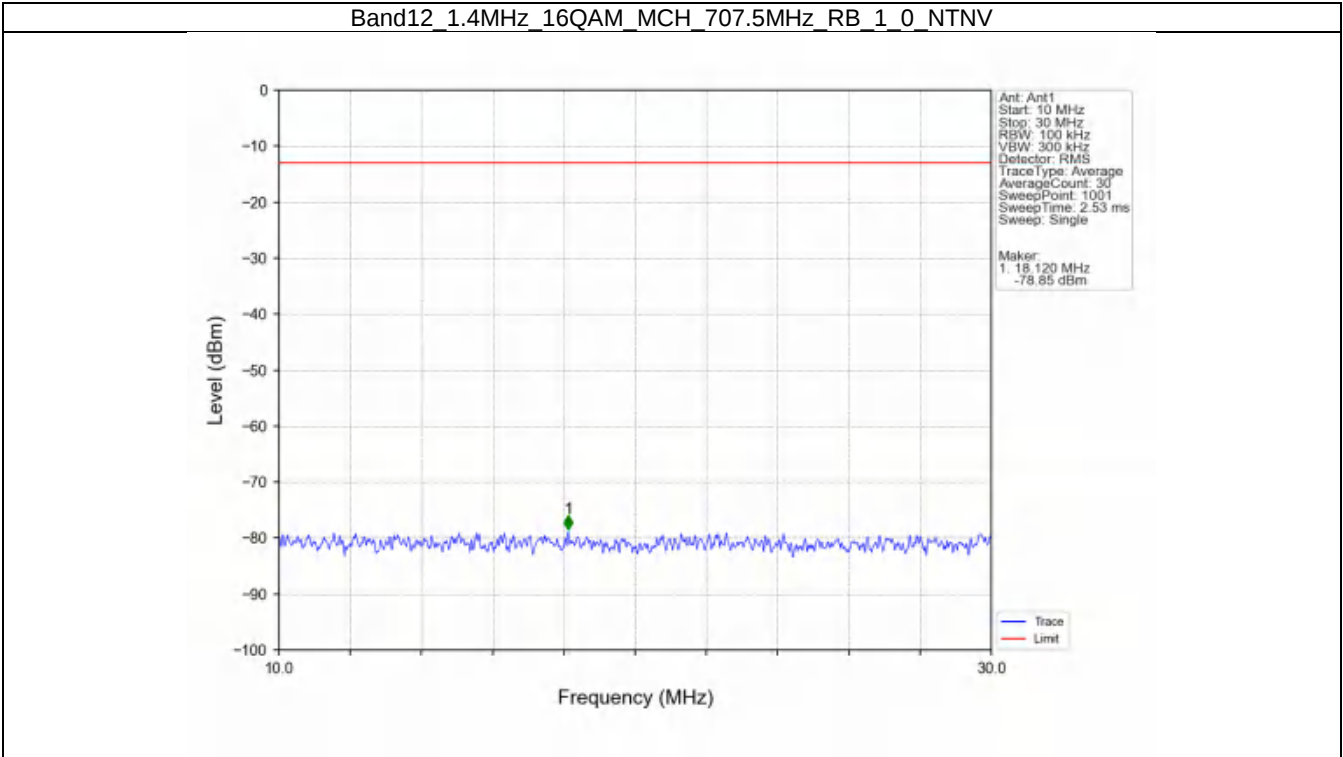


Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

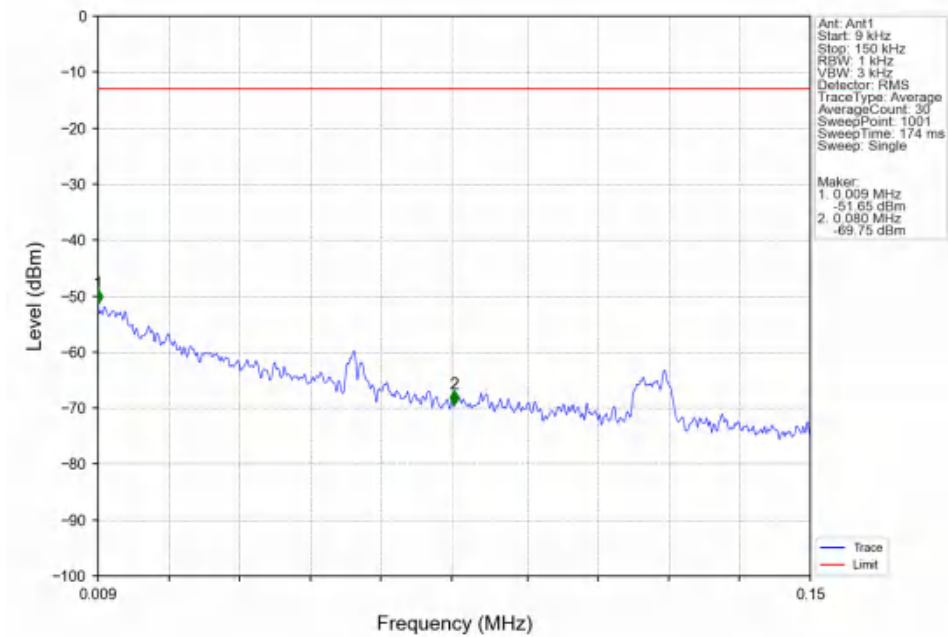


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.814    | -30.58      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.952    | -32.86      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

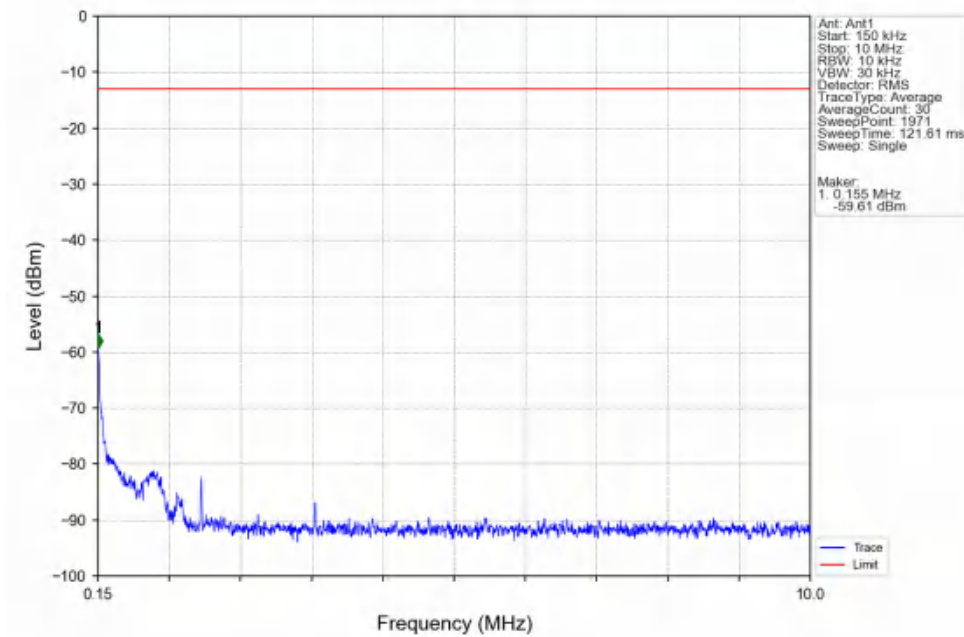




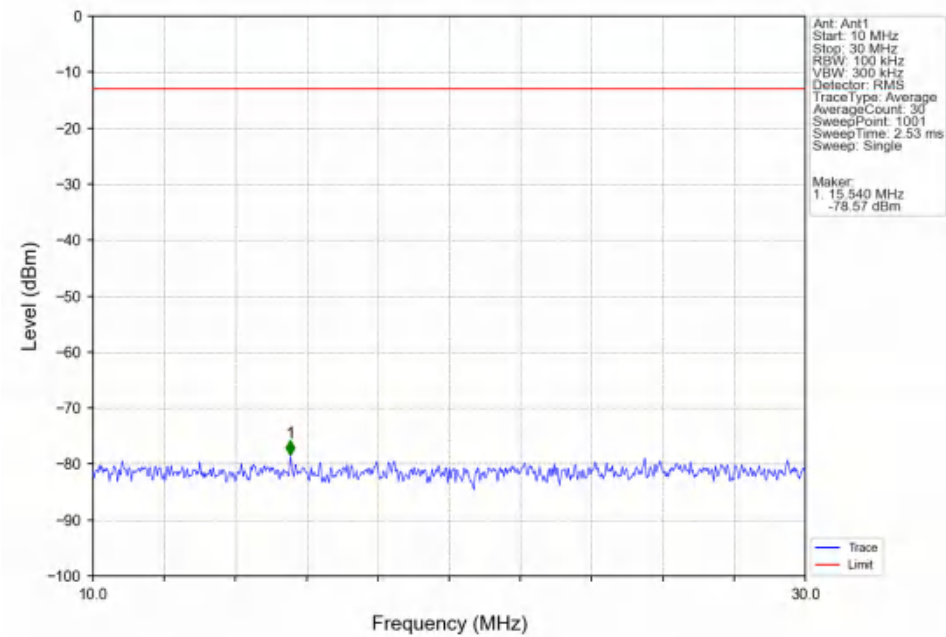
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



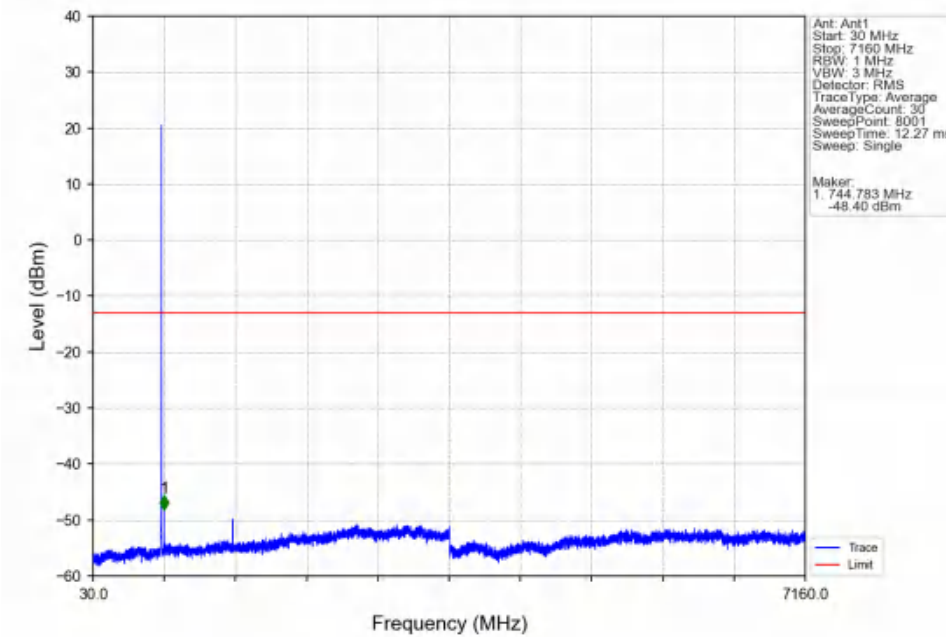
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



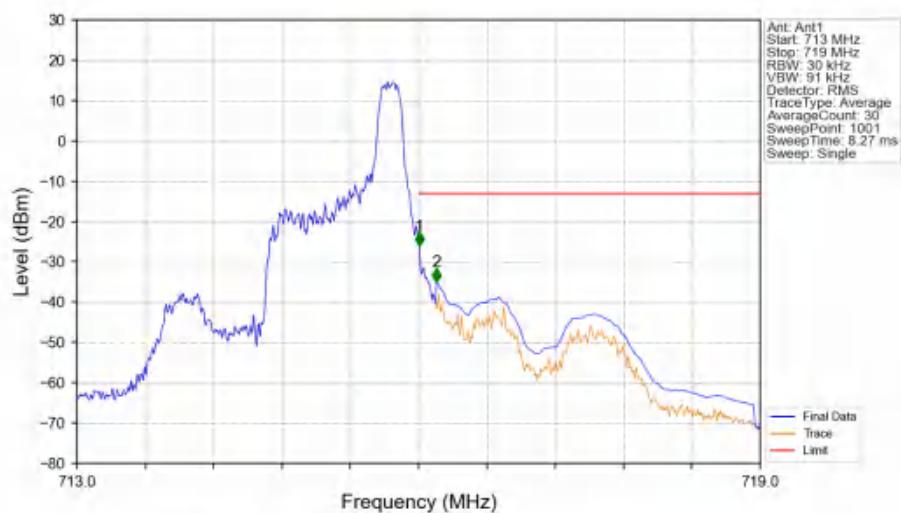
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV

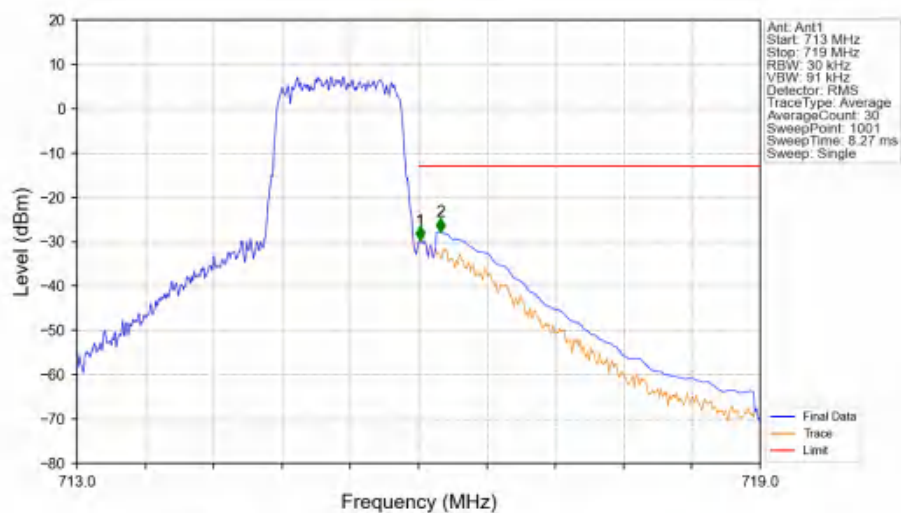


Band12 1.4MHz 16QAM HCH 715.3MHz RB\_1\_5 NTNV



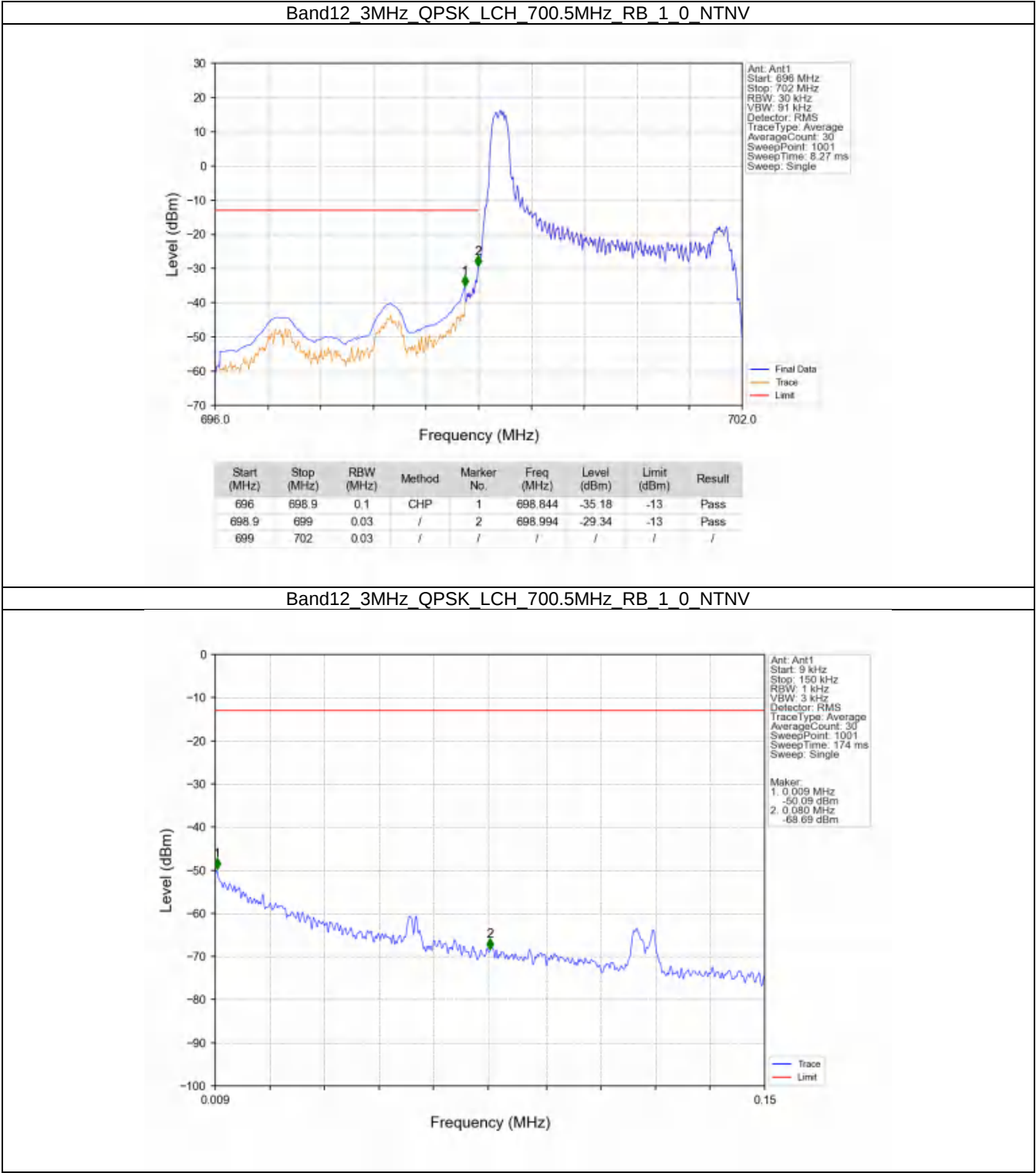
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -26.10      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -34.96      | -13         | Pass   |

Band12 1.4MHz 16QAM HCH 715.3MHz RB\_6\_0 NTNV

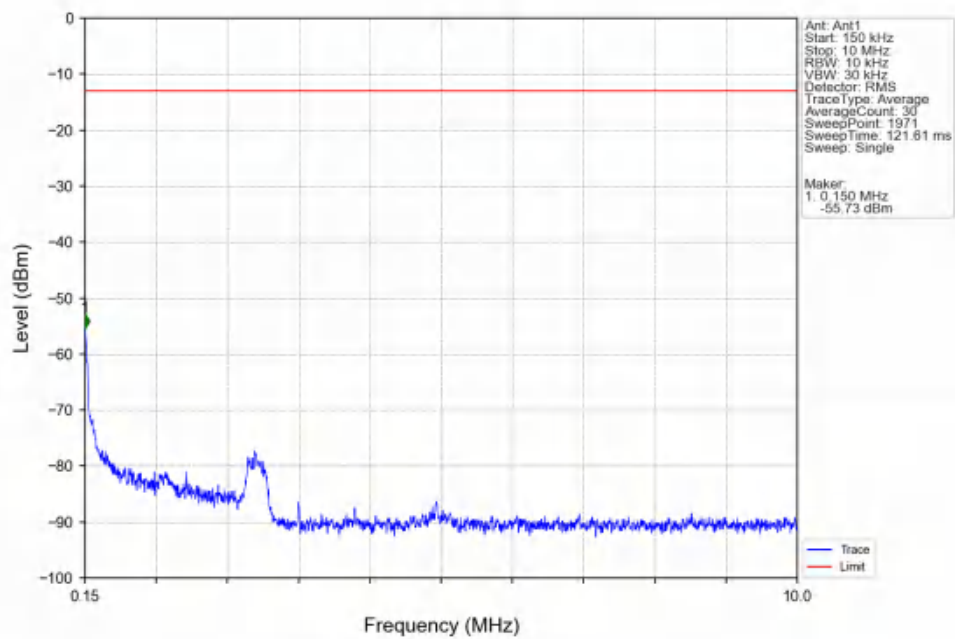


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.012    | -29.63      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.192    | -27.76      | -13         | Pass   |

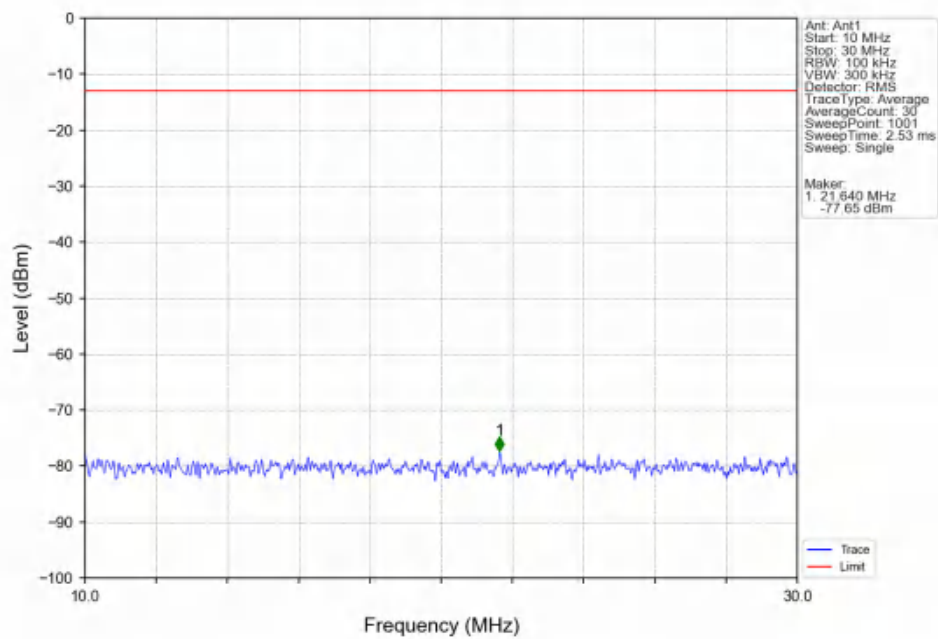
6.2.2 B12\_3MHz



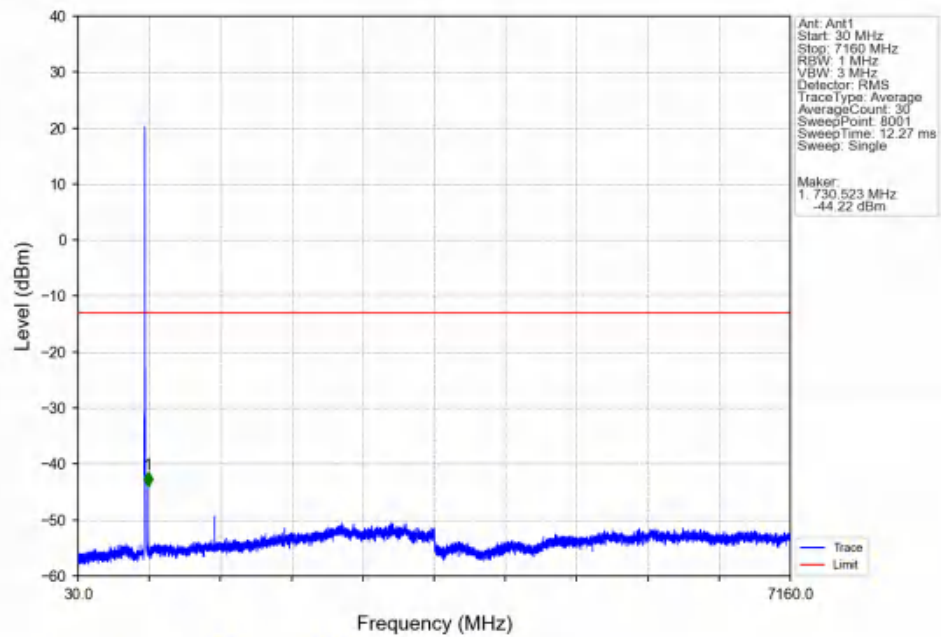
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



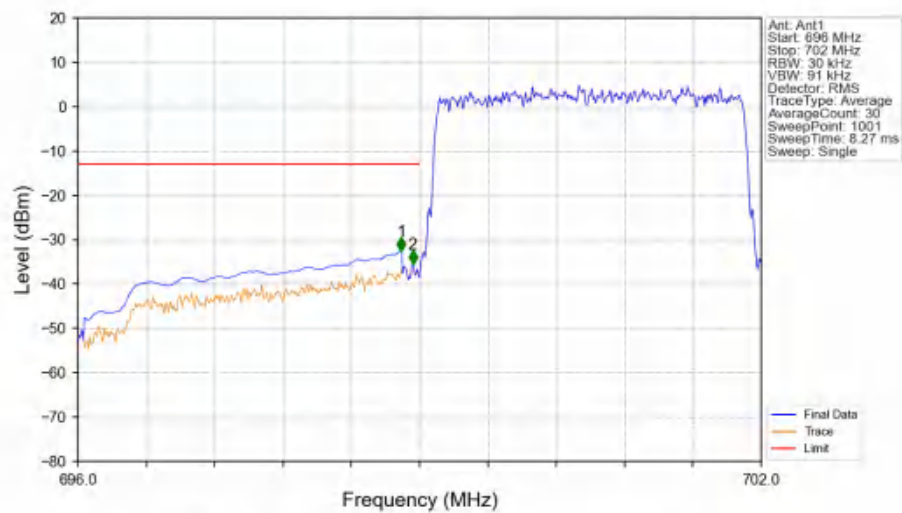
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_1\_0\_NTNV

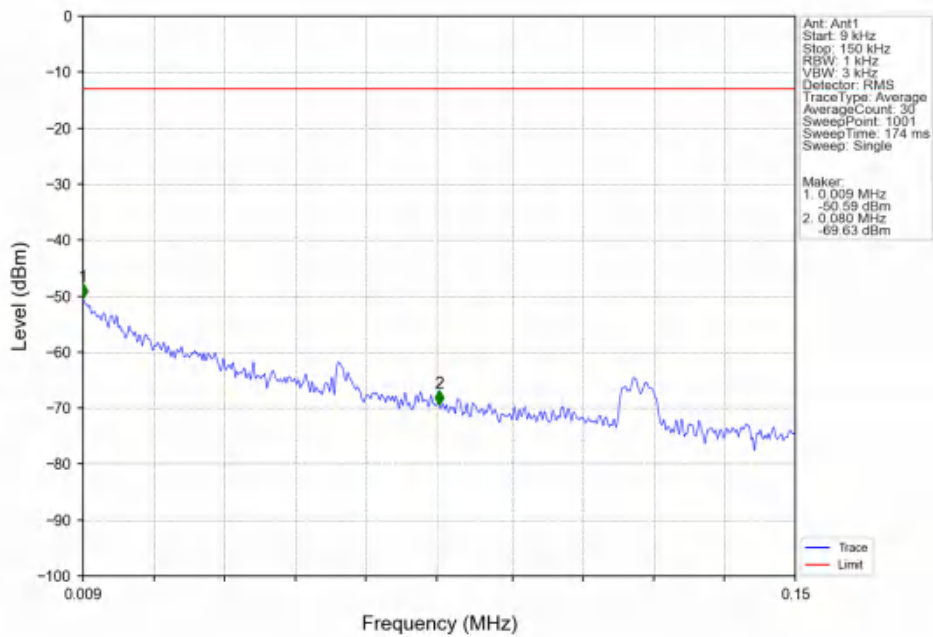


Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

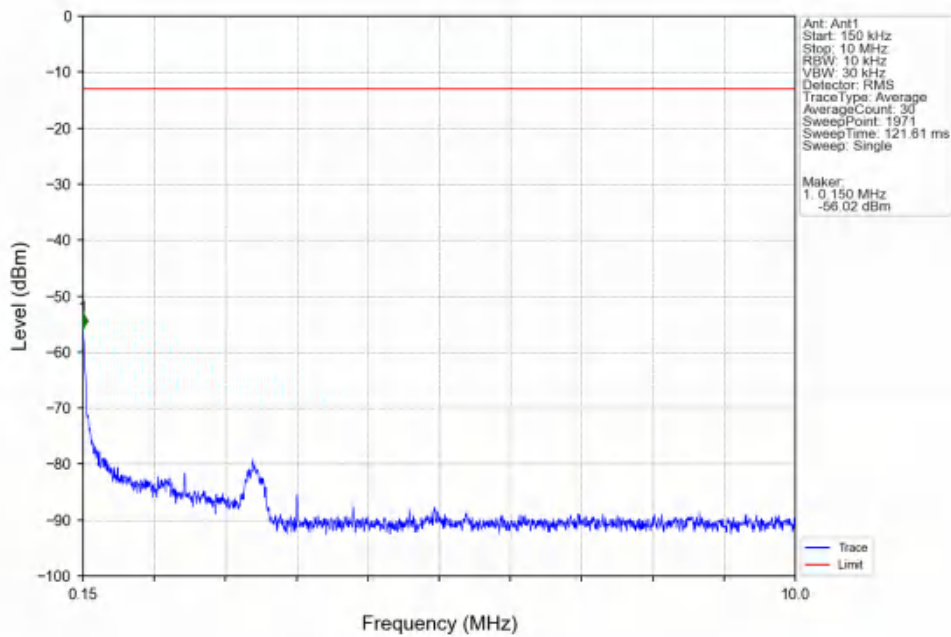


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.838    | -32.53      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.940    | -35.53      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

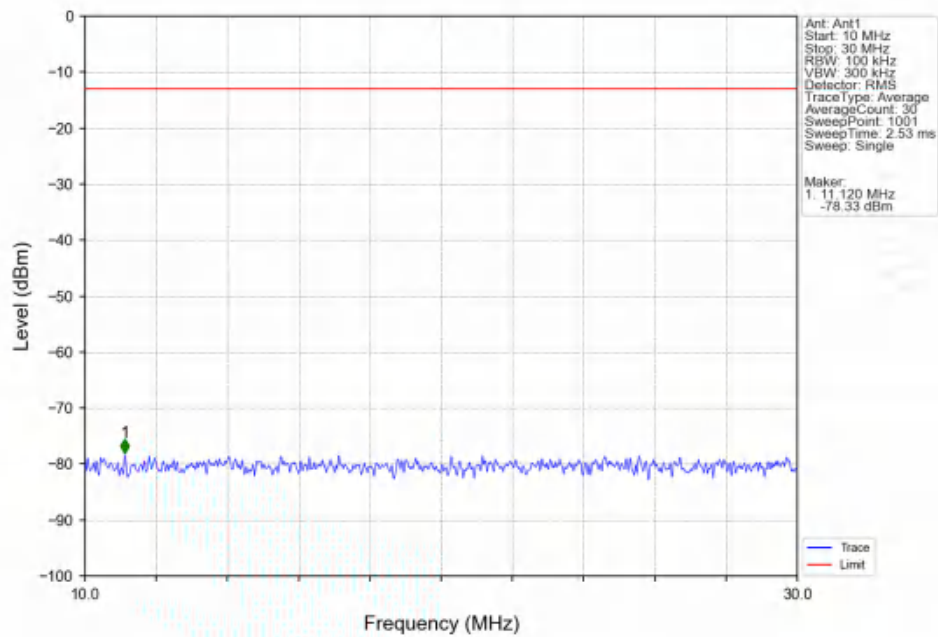
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



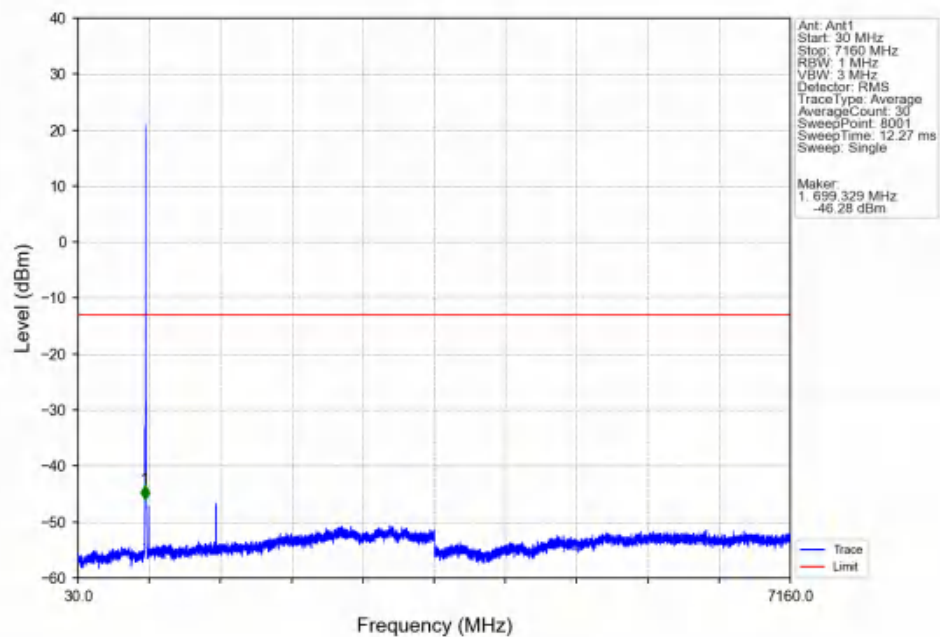
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



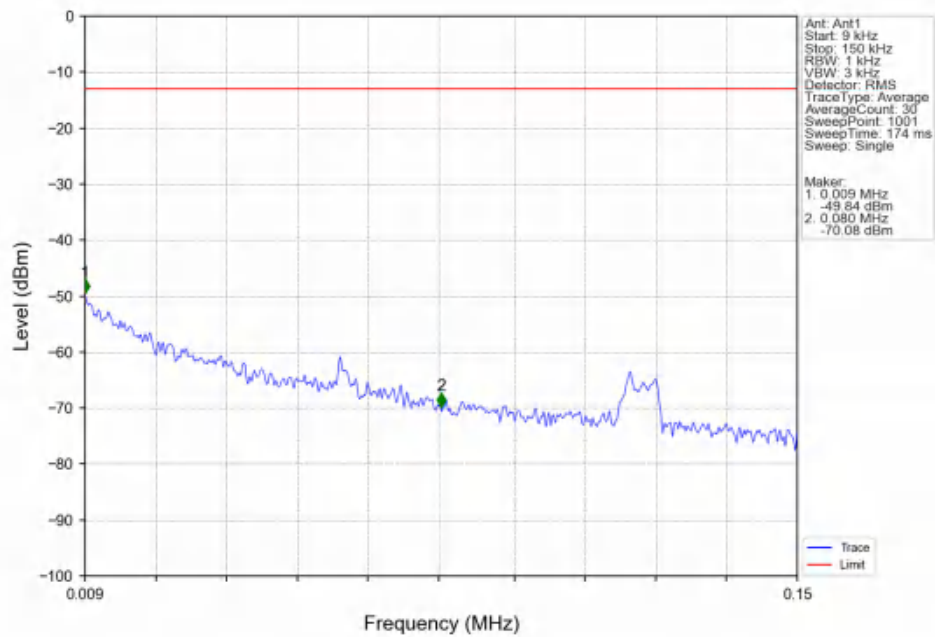
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



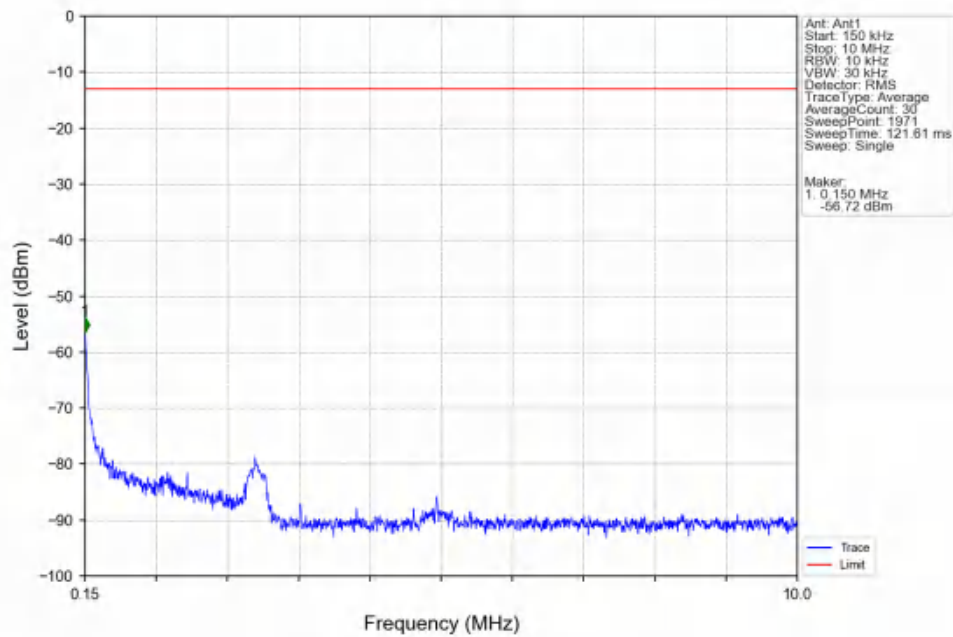
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



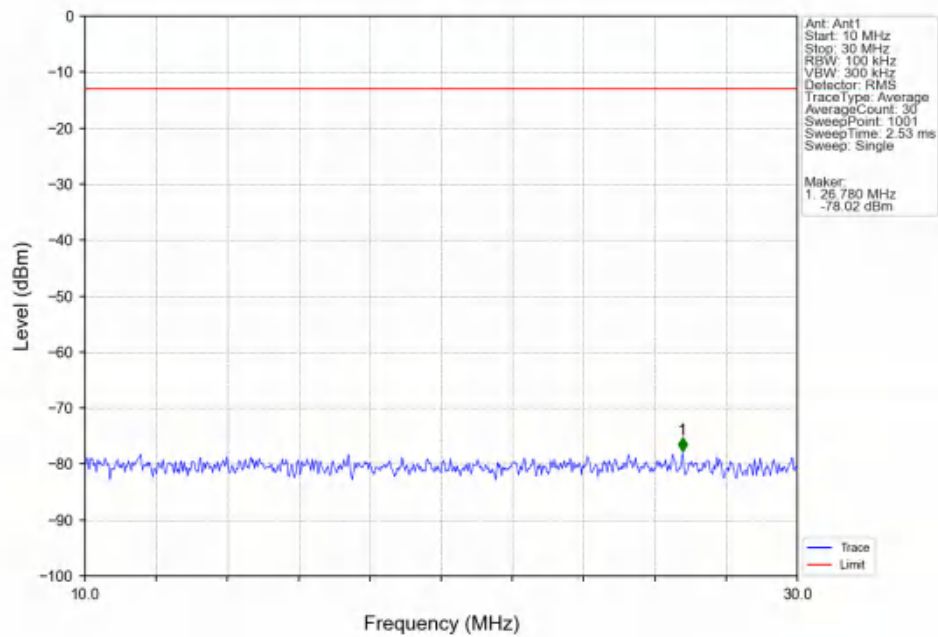
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



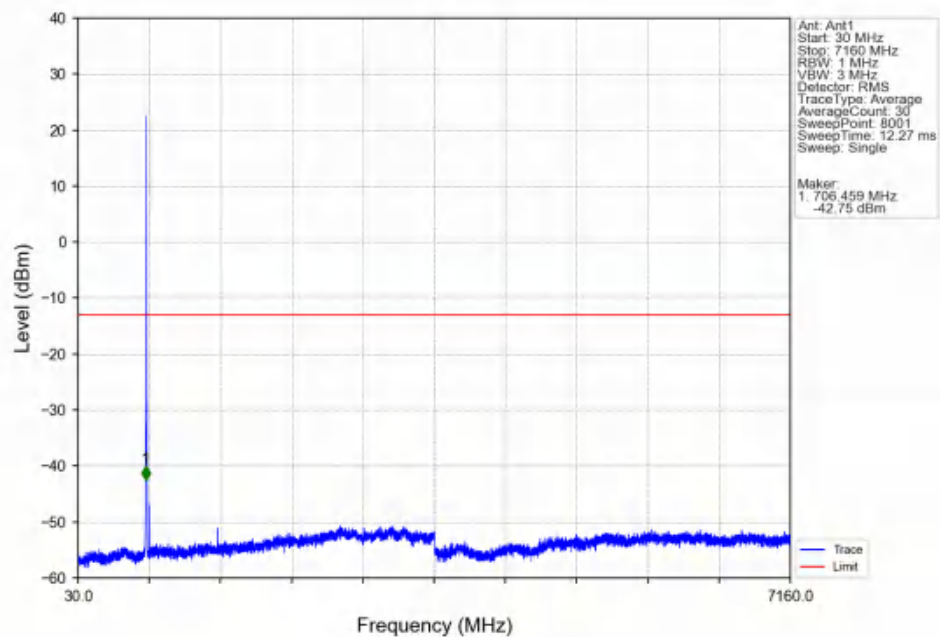
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



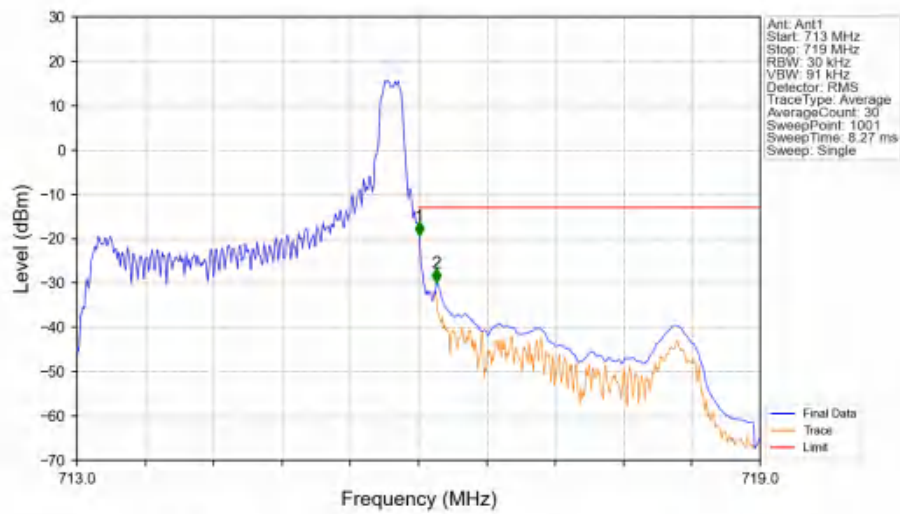
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_0\_NTNV

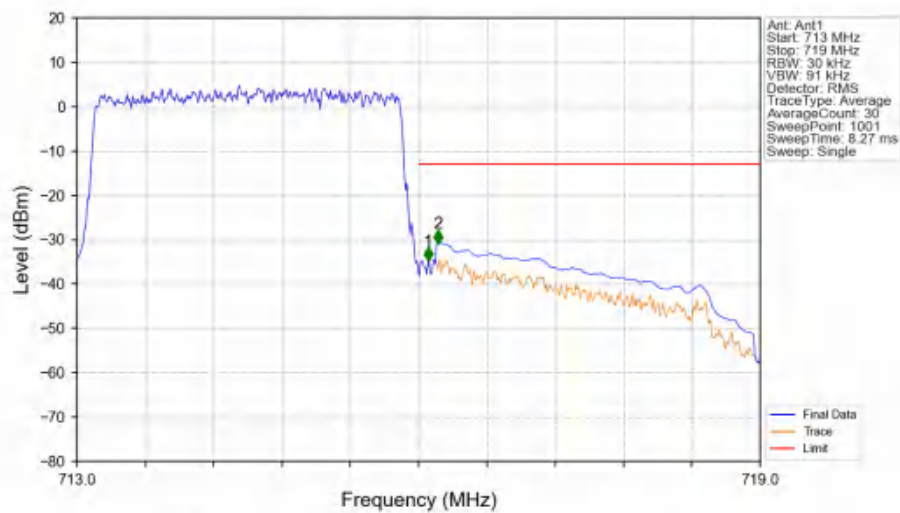


Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



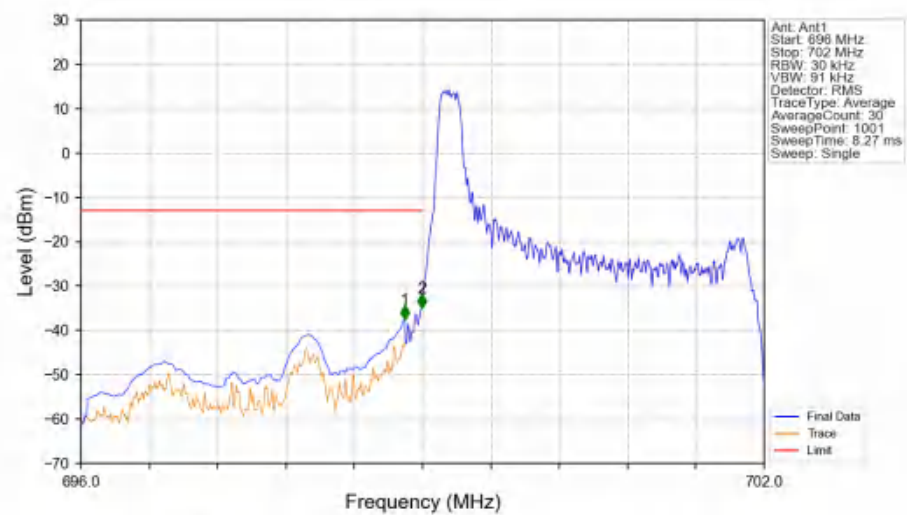
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -19.31      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -29.88      | -13         | Pass   |

Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

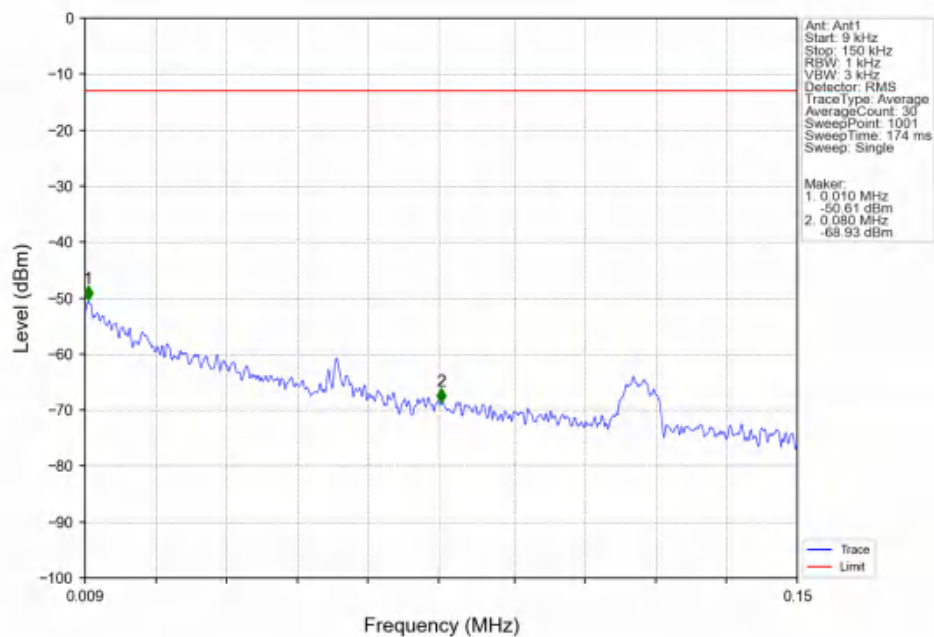


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.084    | -34.73      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.168    | -30.86      | -13         | Pass   |

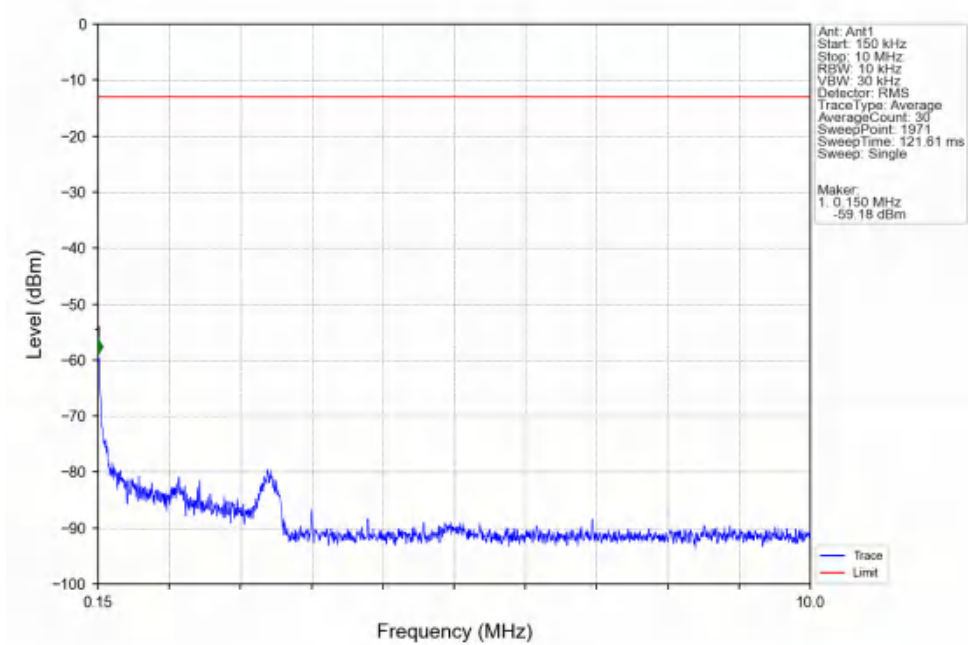
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



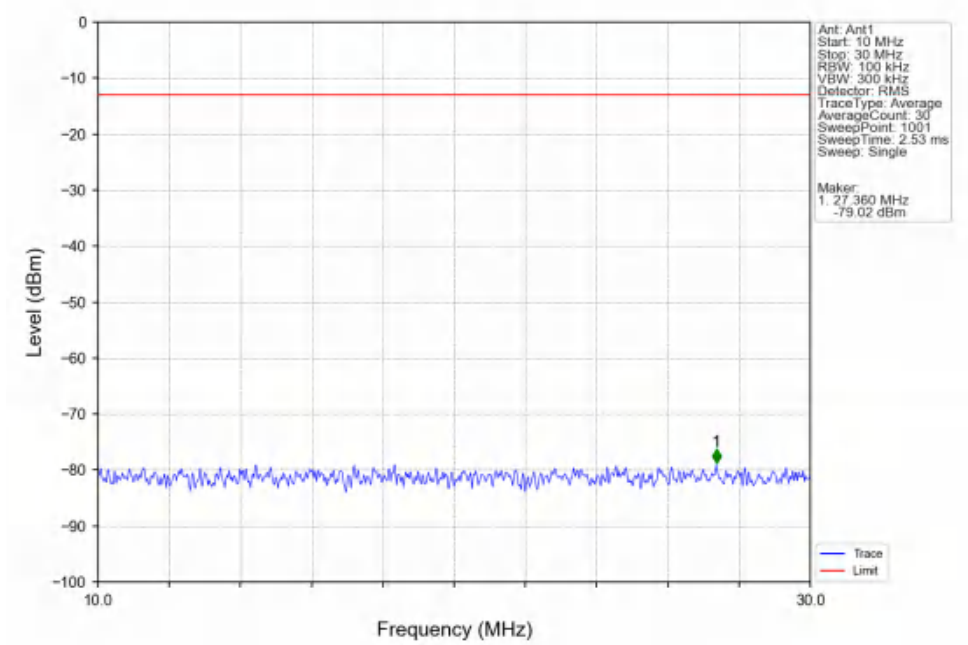
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



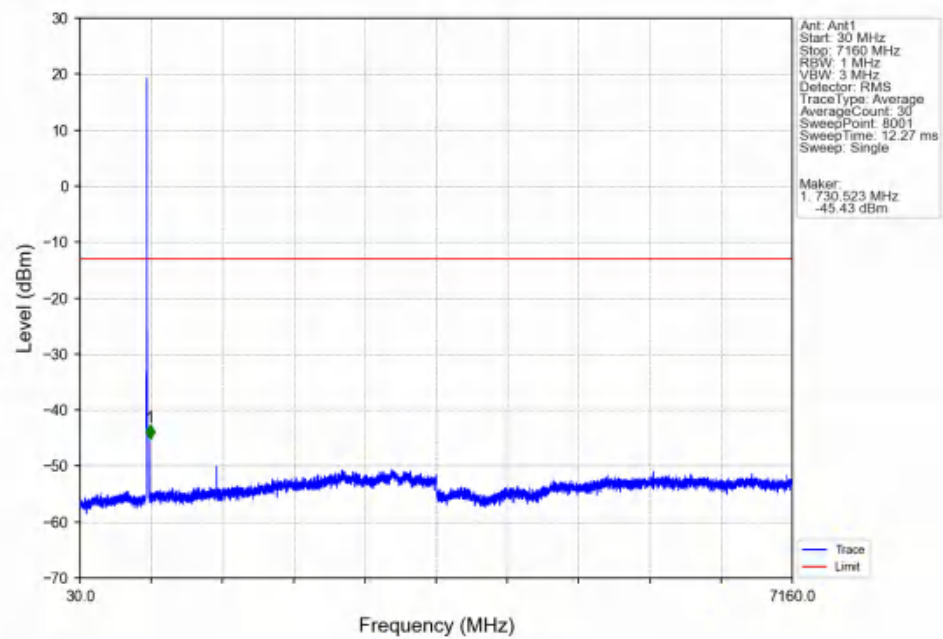
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



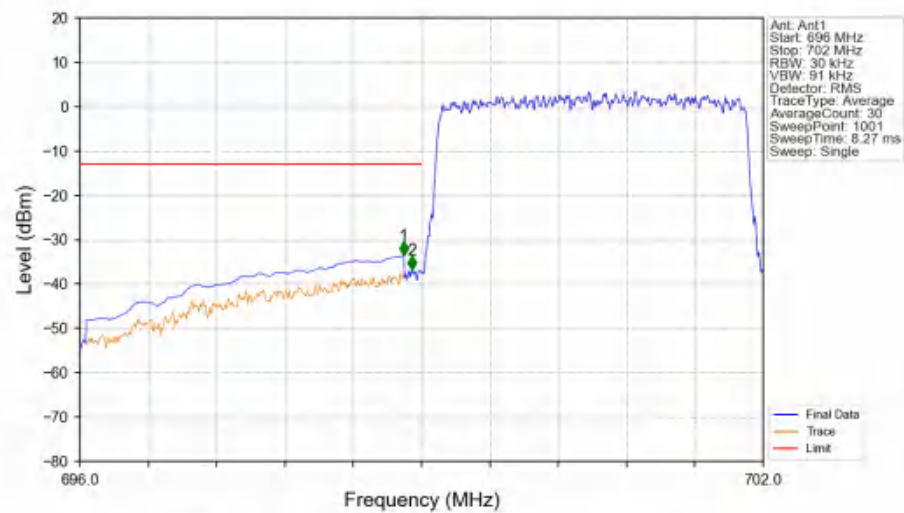
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV

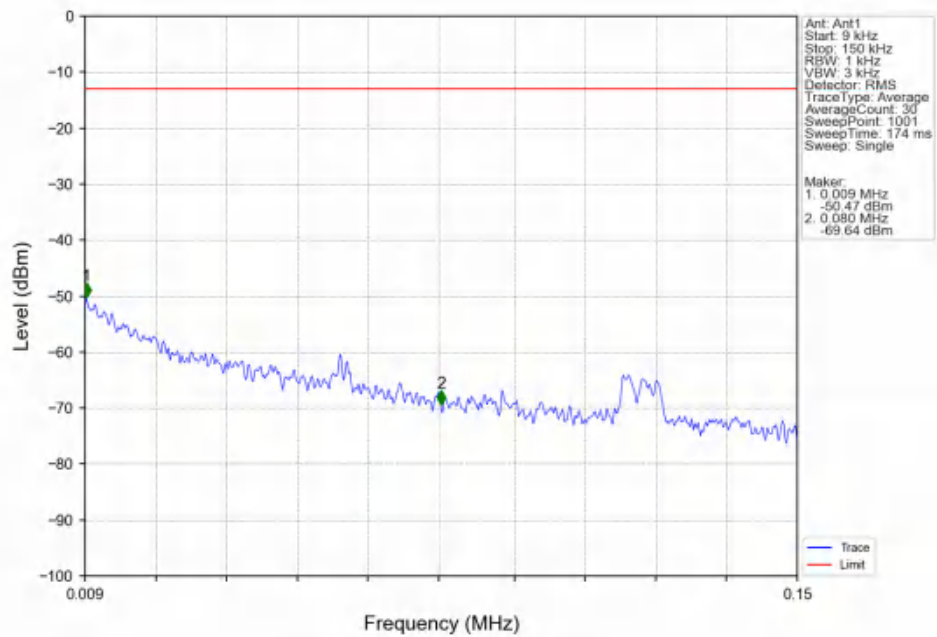


Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

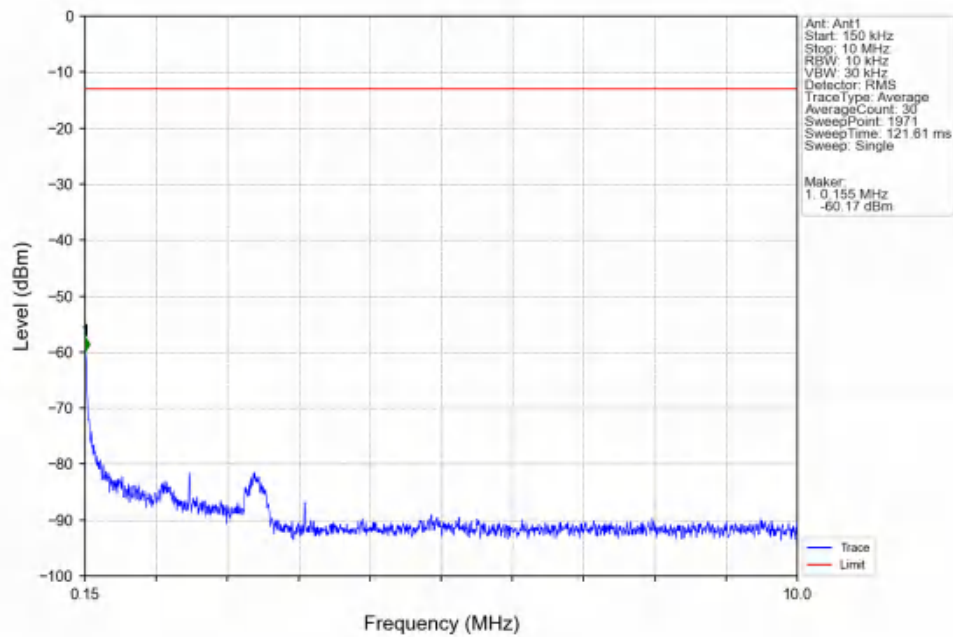


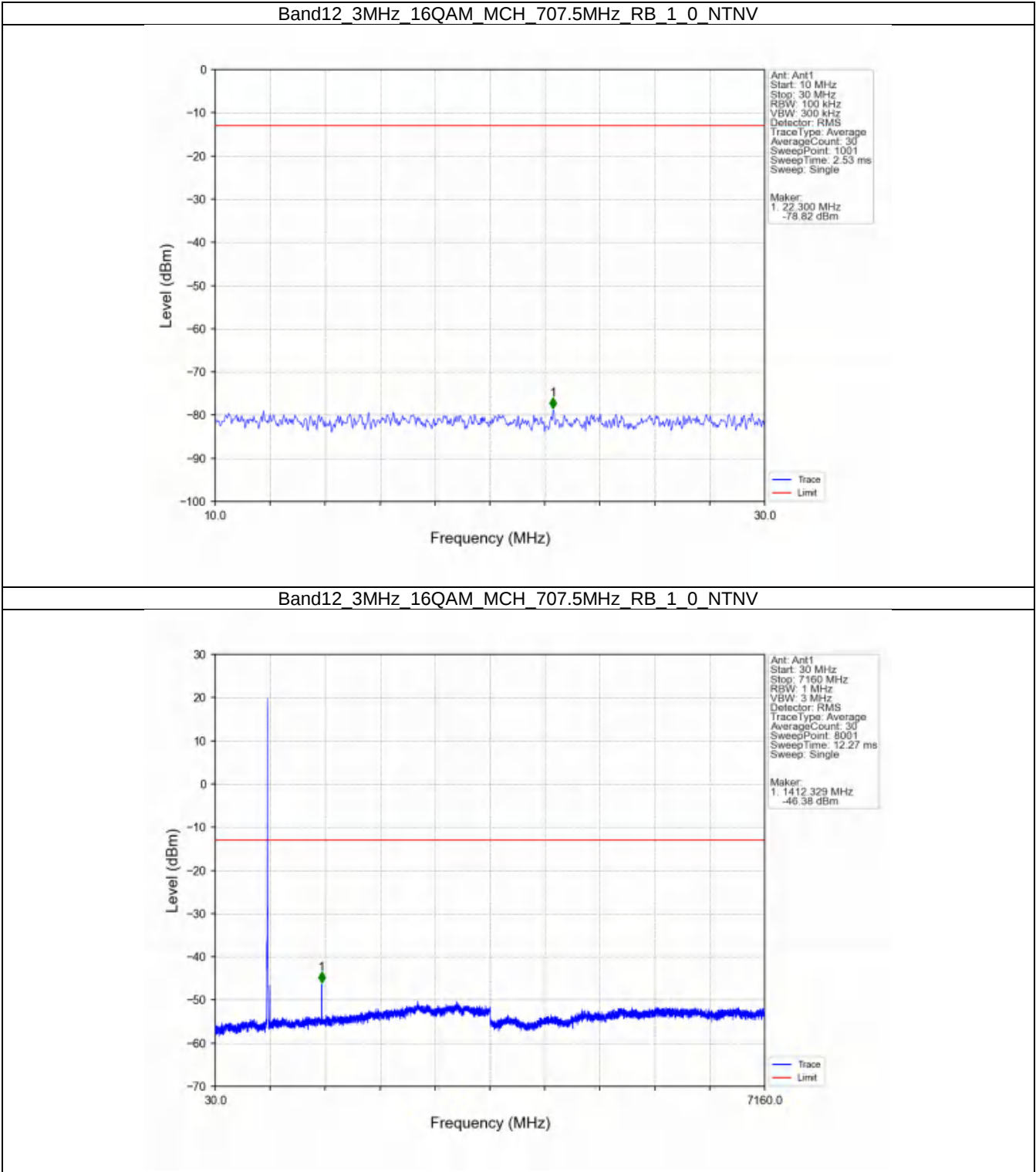
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -33.50      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.916    | -36.83      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV

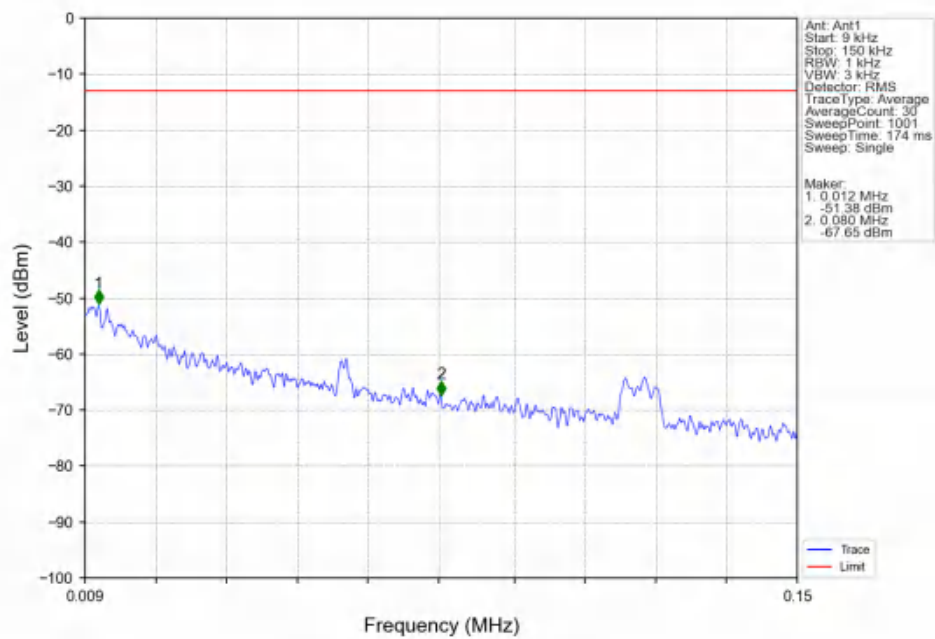


Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV

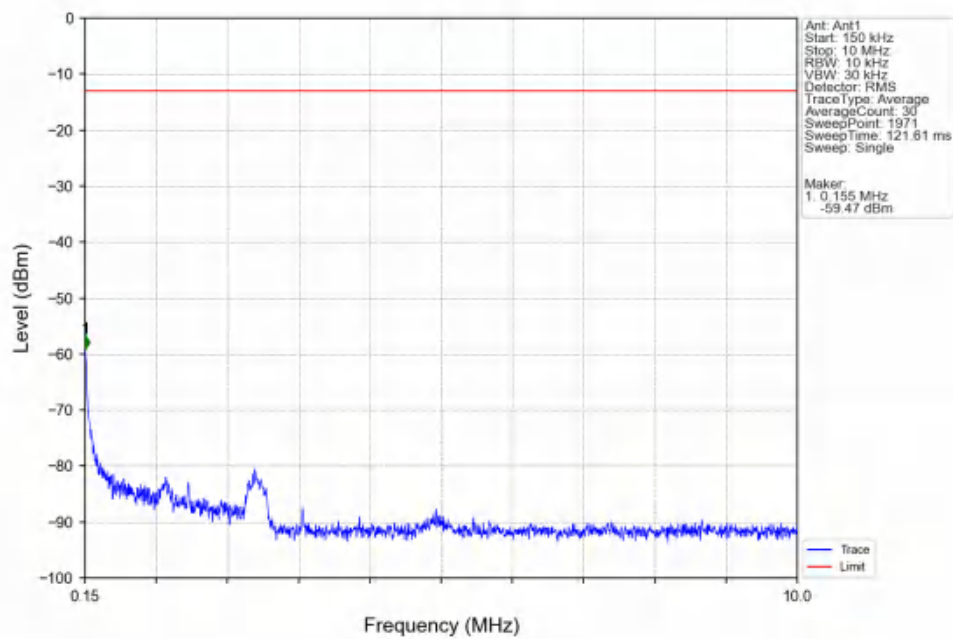




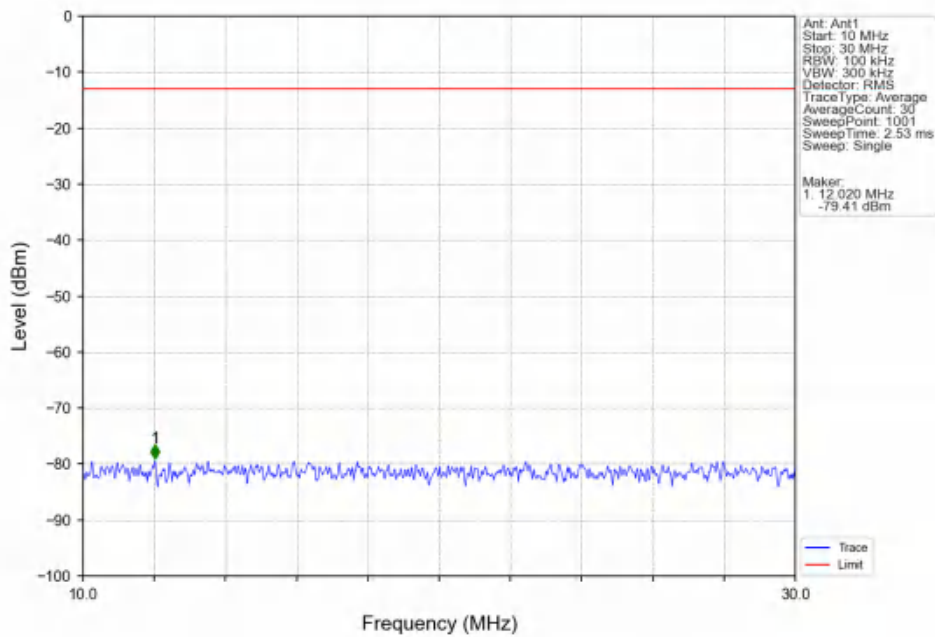
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



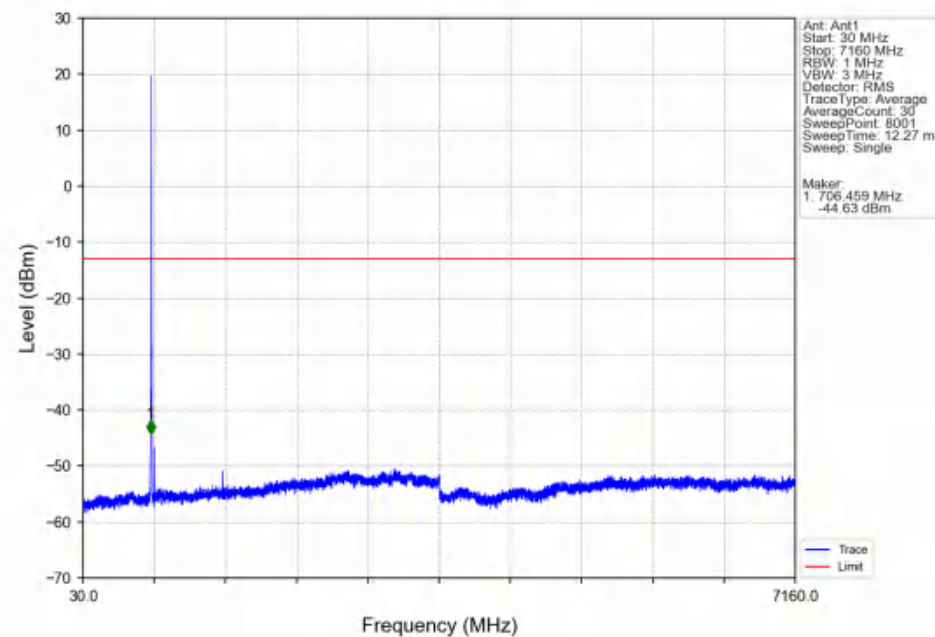
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



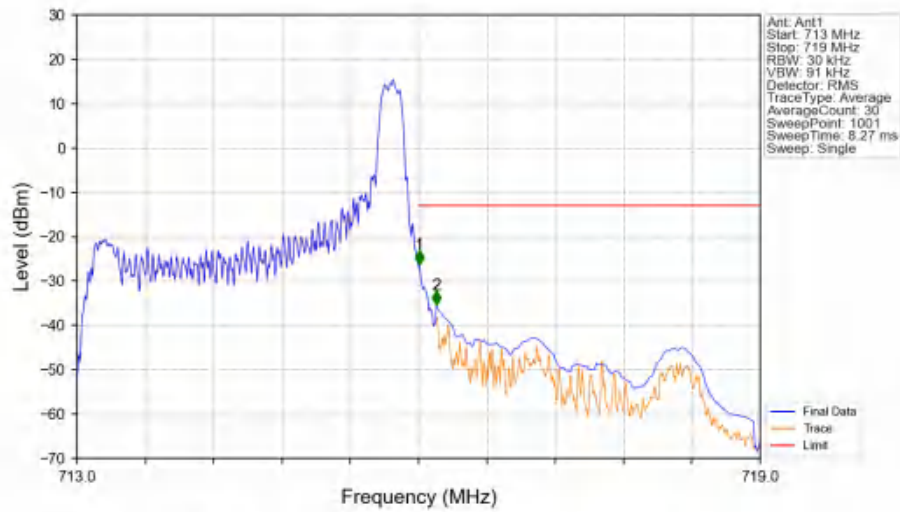
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV

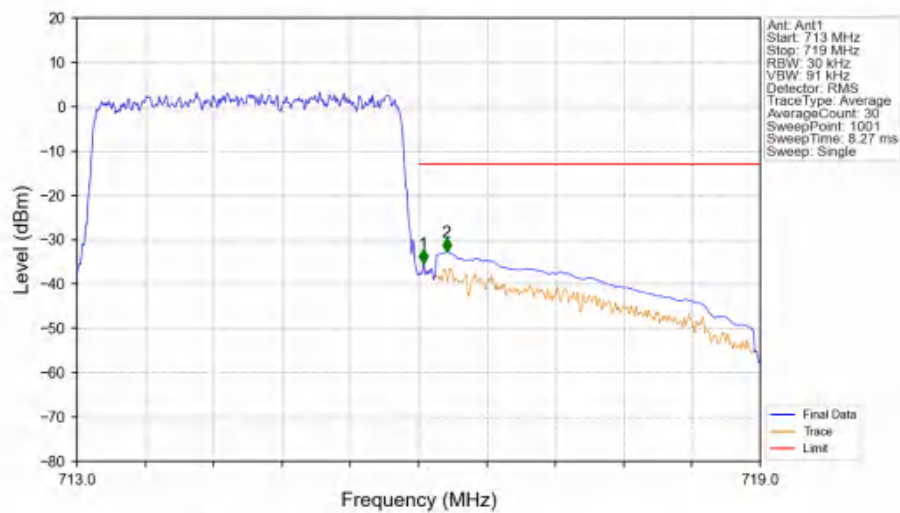


Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



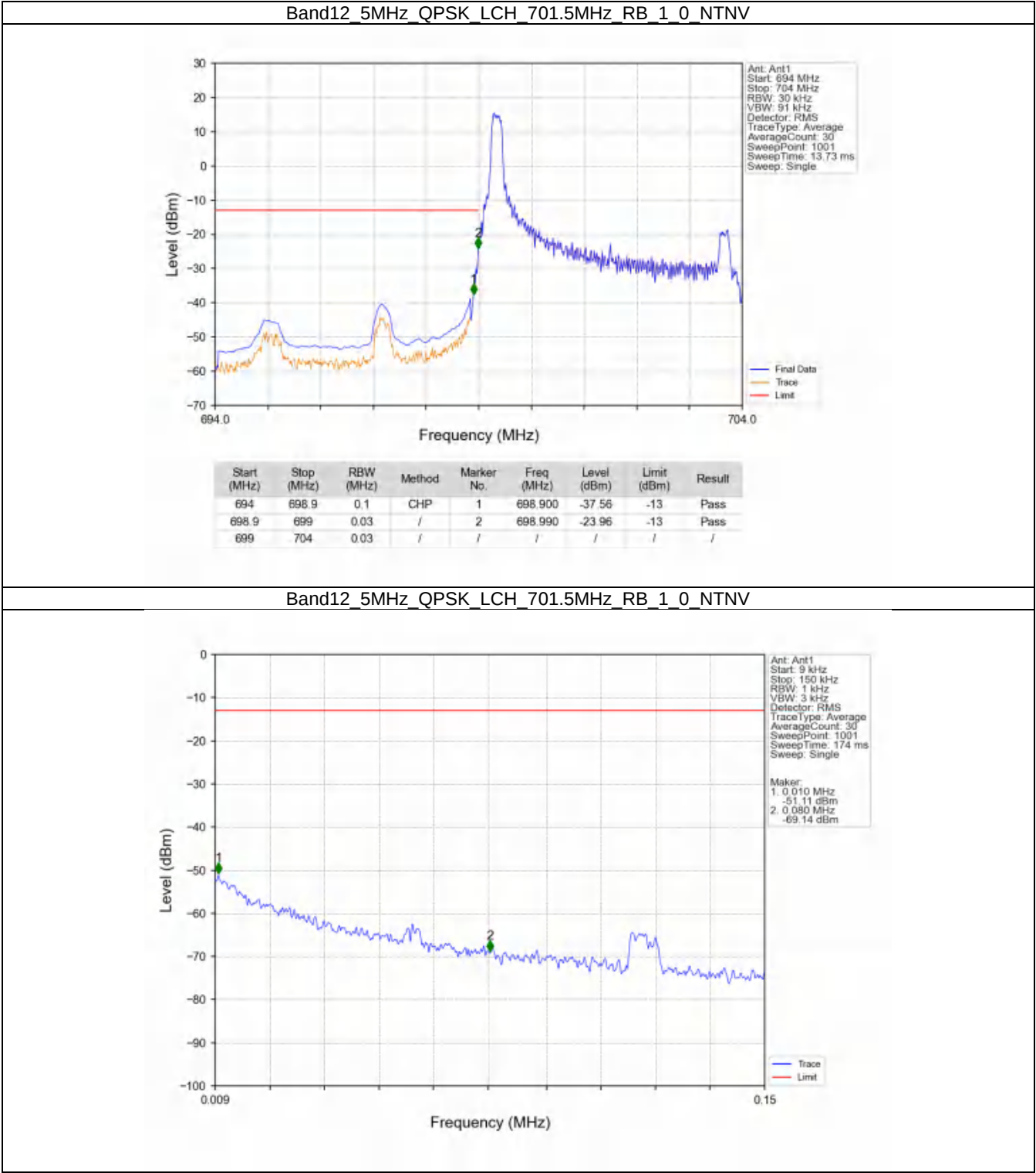
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -26.23      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -35.31      | -13         | Pass   |

Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

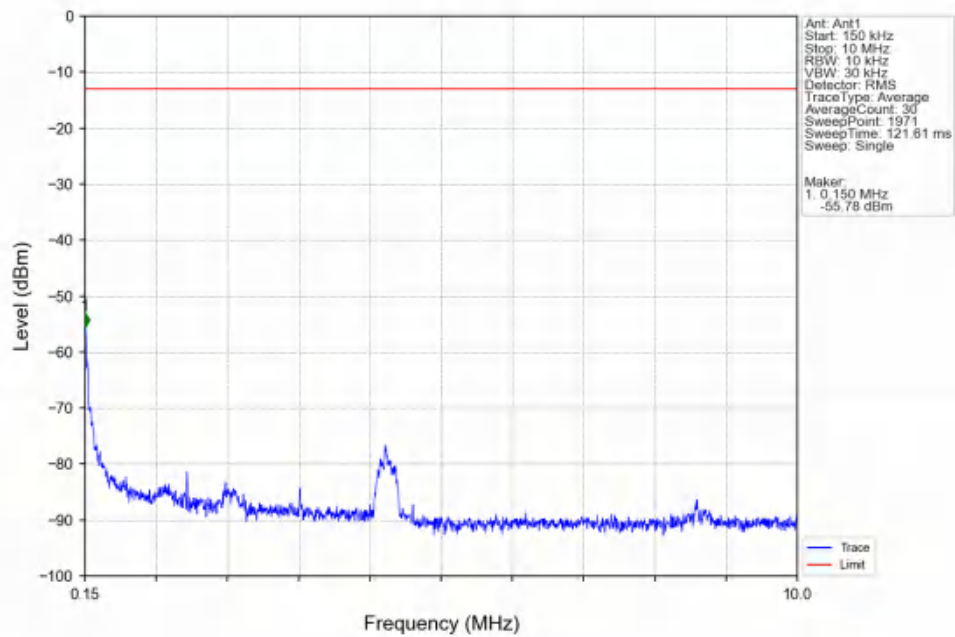


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.042    | -35.30      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.246    | -32.71      | -13         | Pass   |

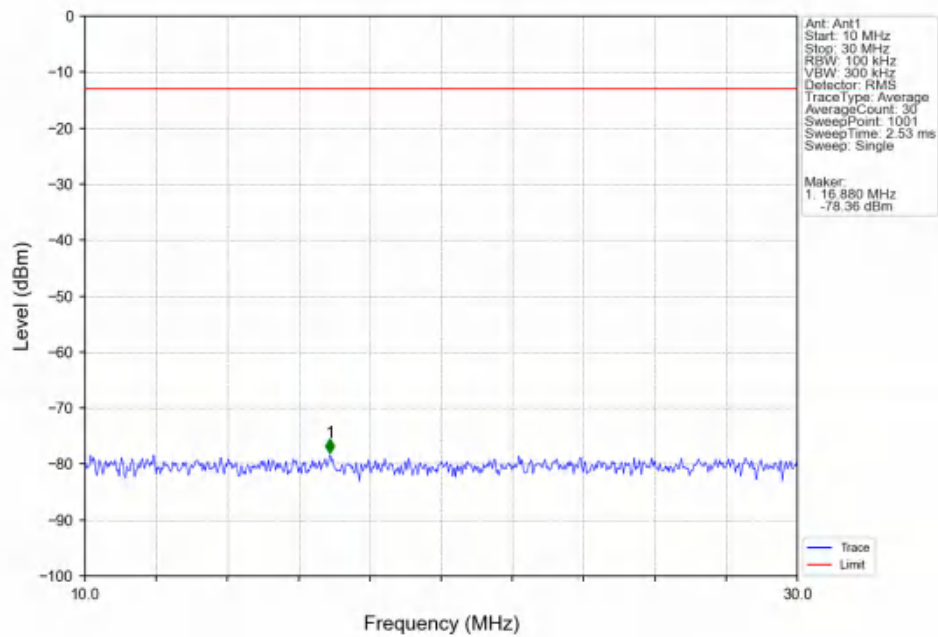
6.2.3 B12\_5MHz



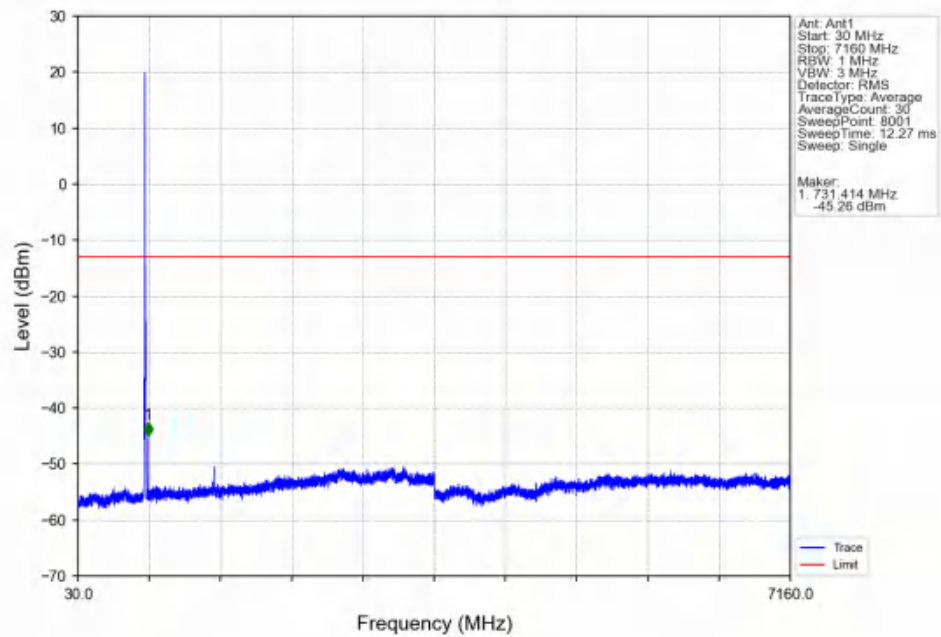
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



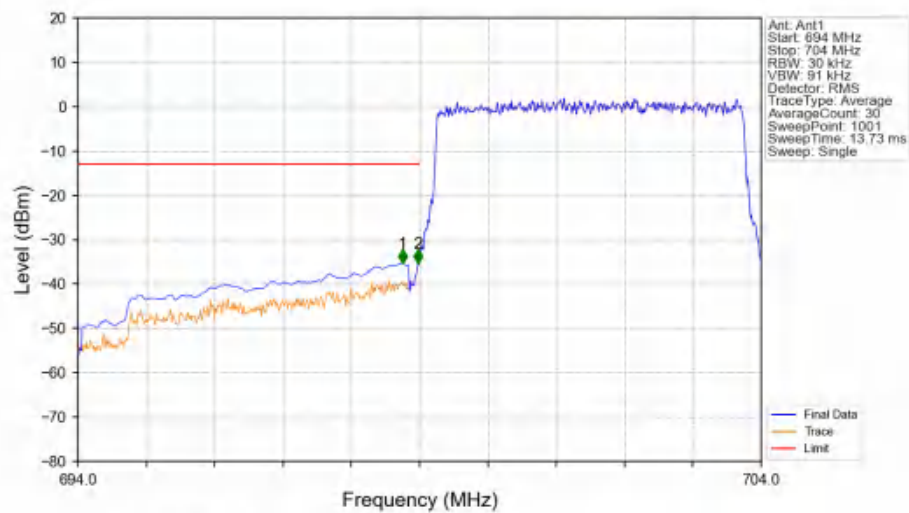
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_1\_0\_NTNV

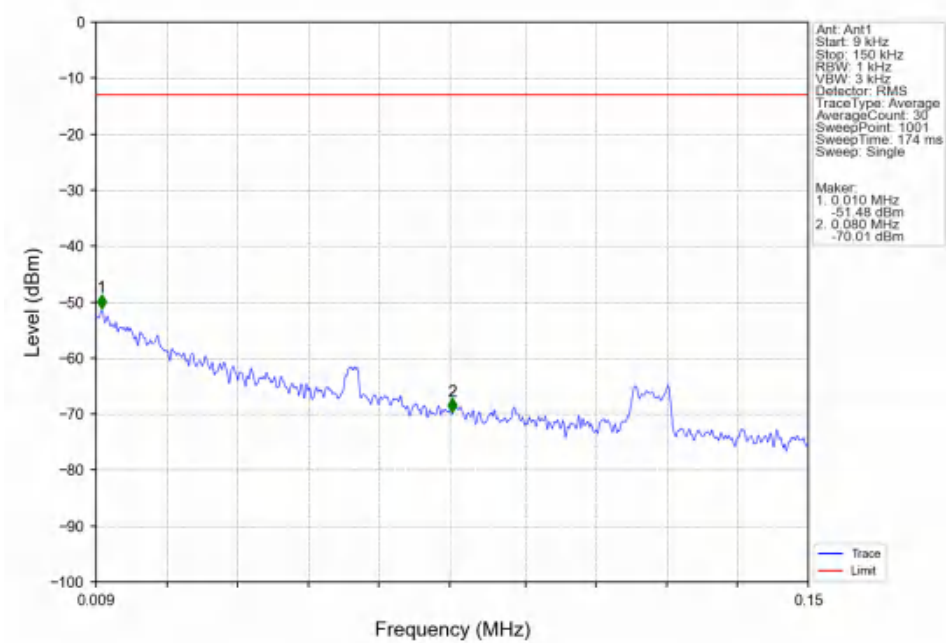


Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

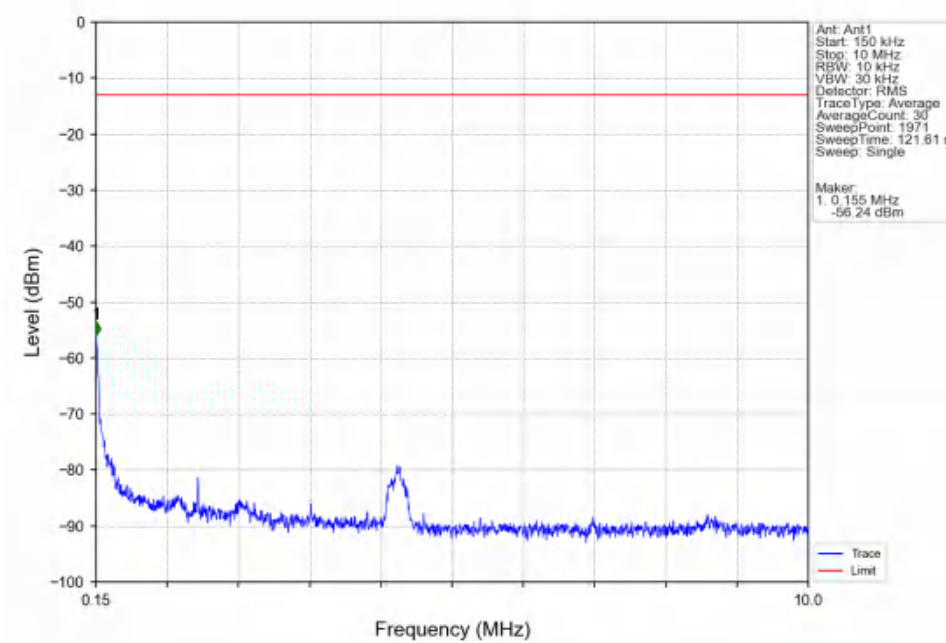


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.750    | -35.28      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.980    | -35.40      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

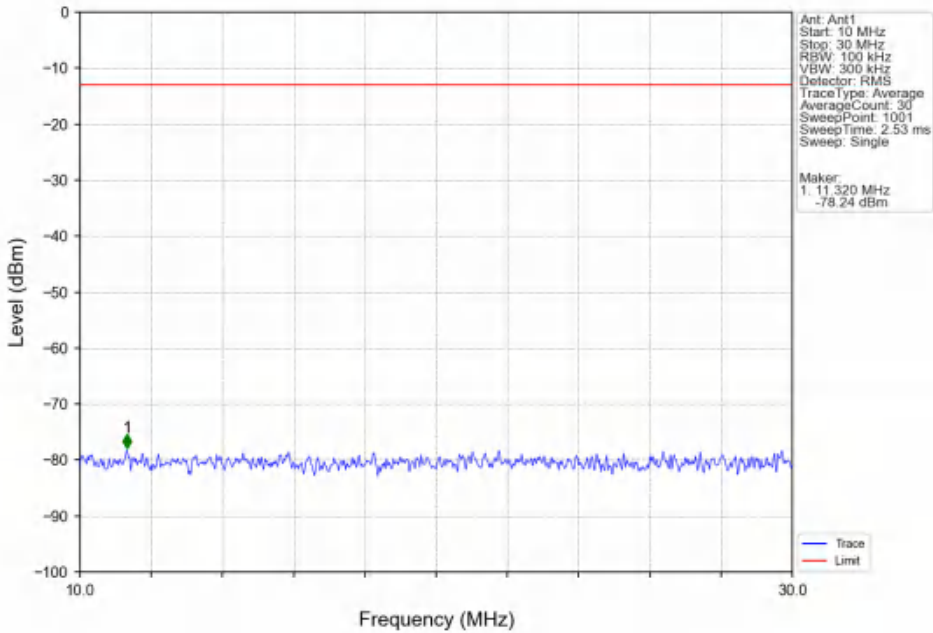
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



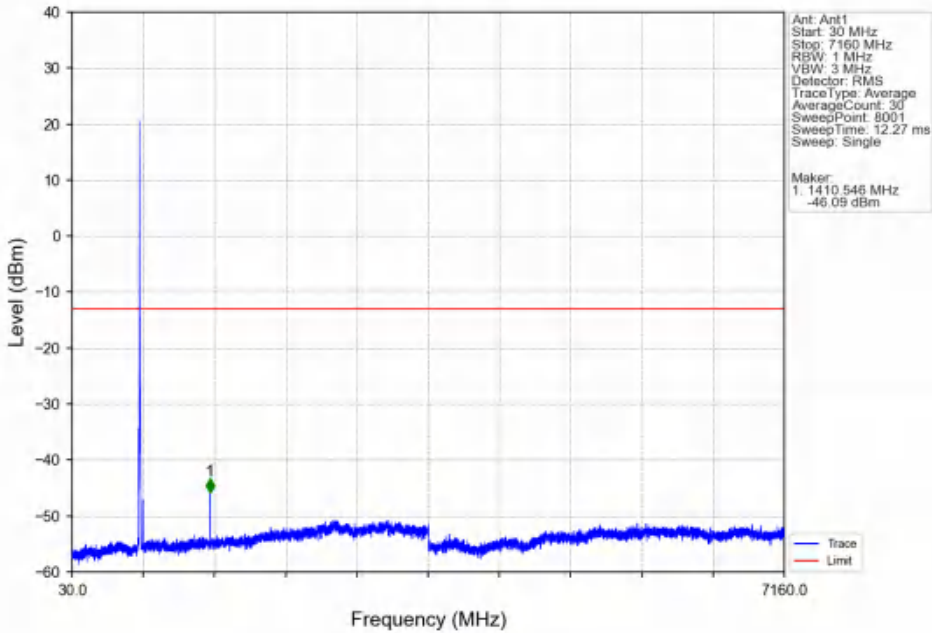
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



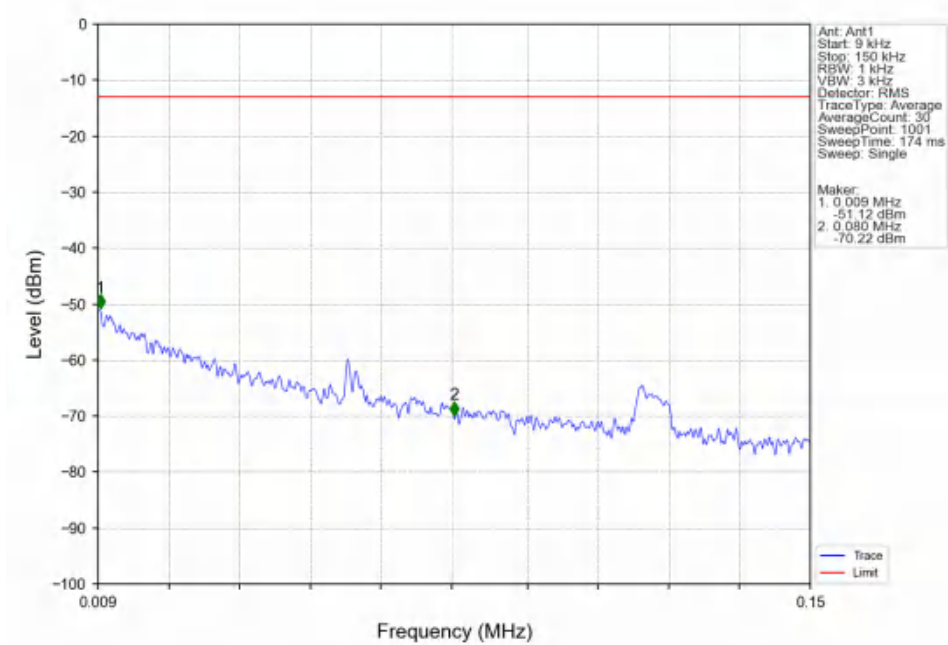
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



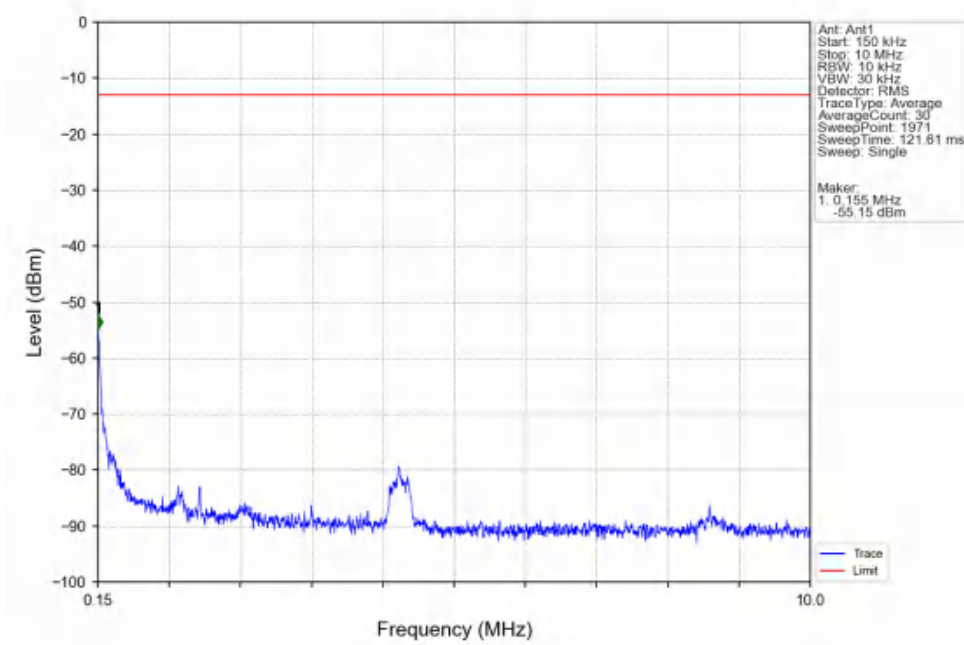
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



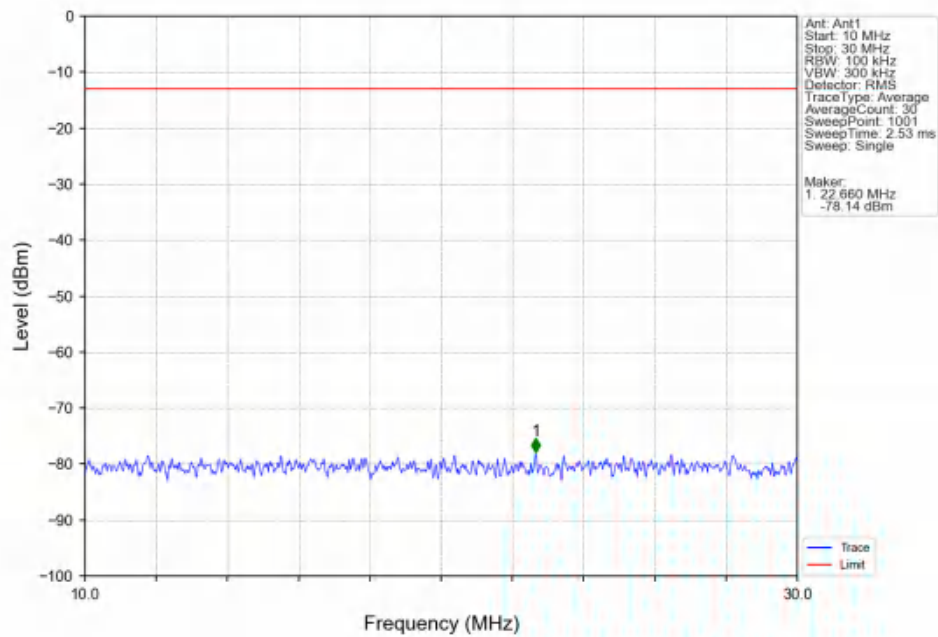
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



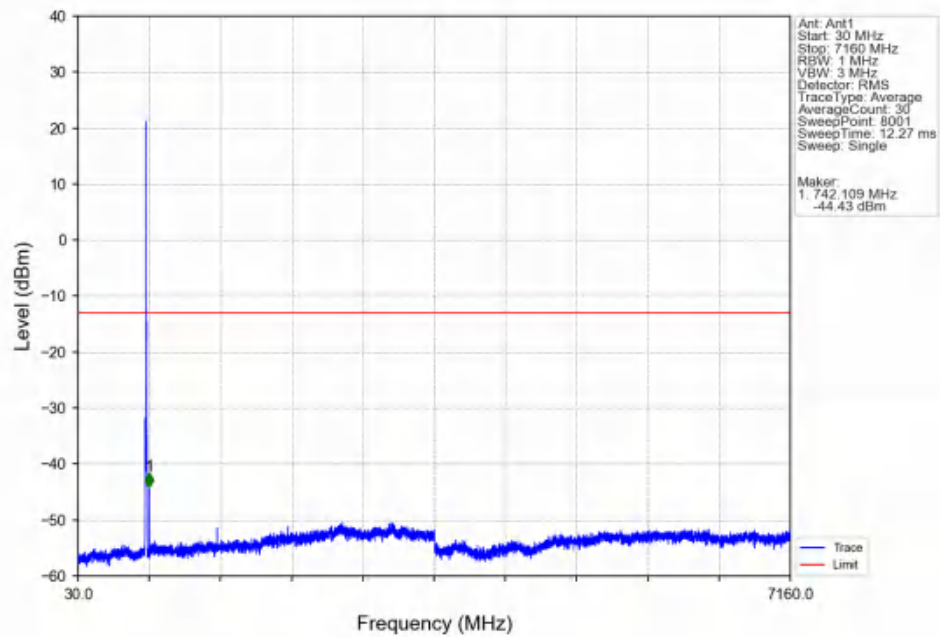
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



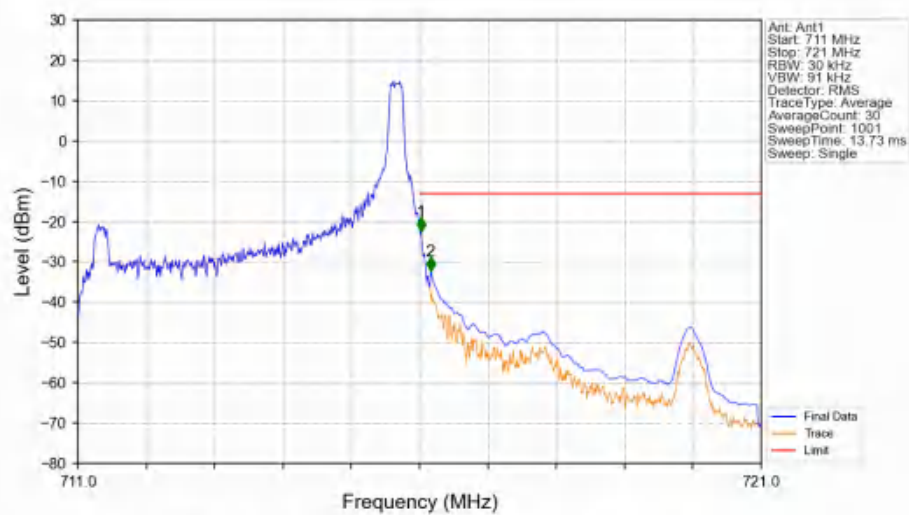
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

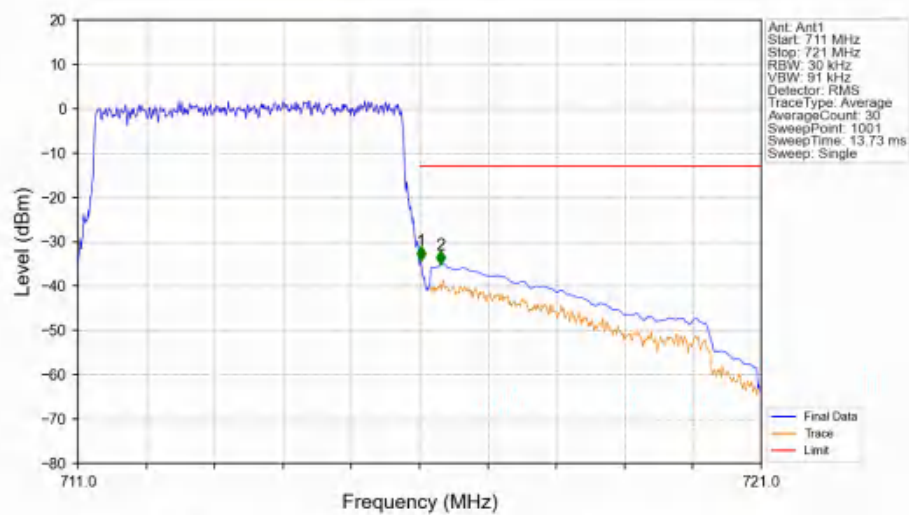


Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



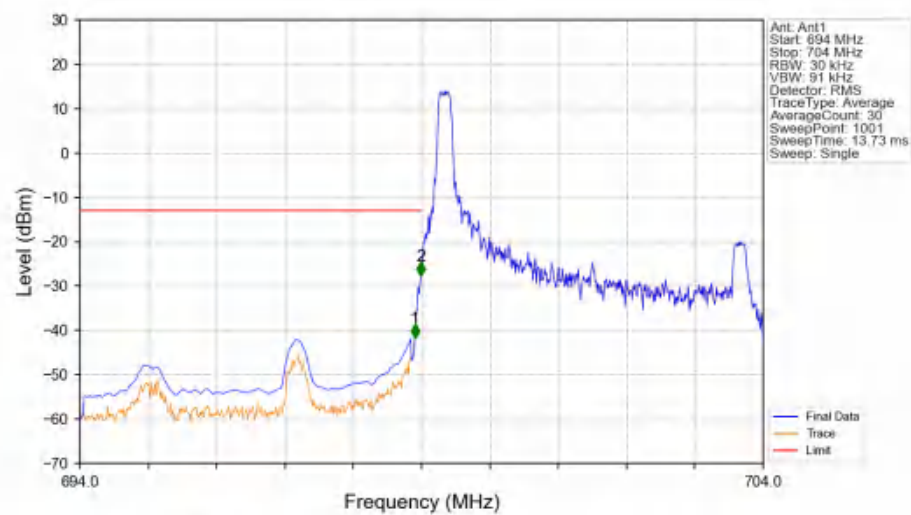
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.020    | -22.47      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -32.26      | -13         | Pass   |

Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



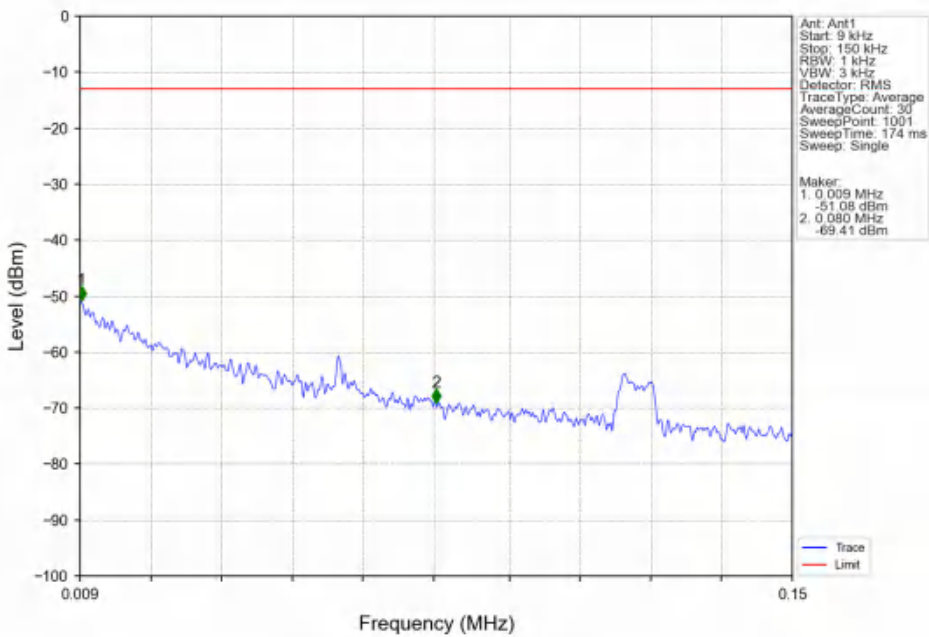
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.020    | -34.29      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.310    | -35.12      | -13         | Pass   |

Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV

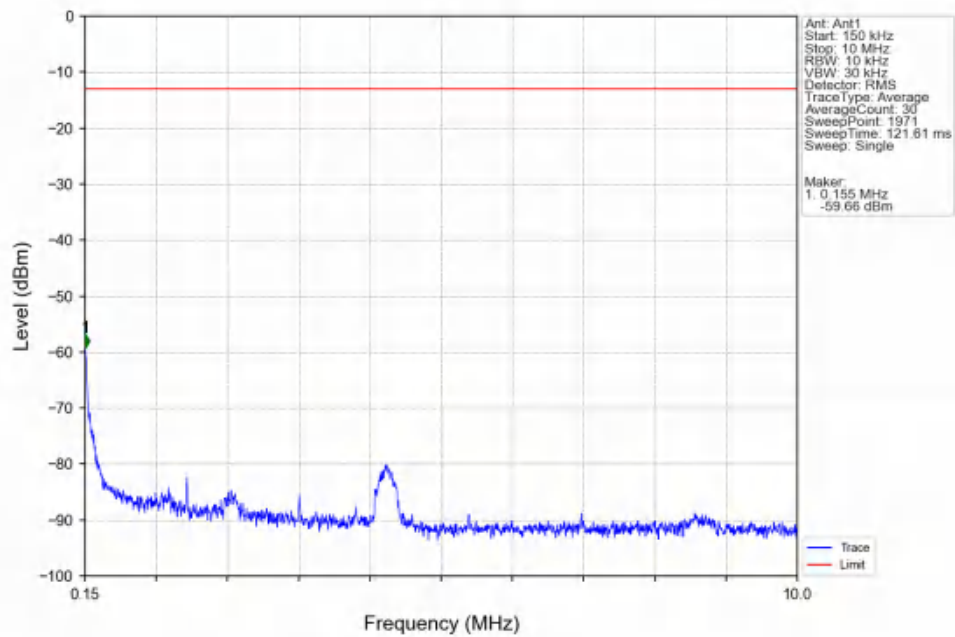


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.900    | -41.69      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.990    | -27.75      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

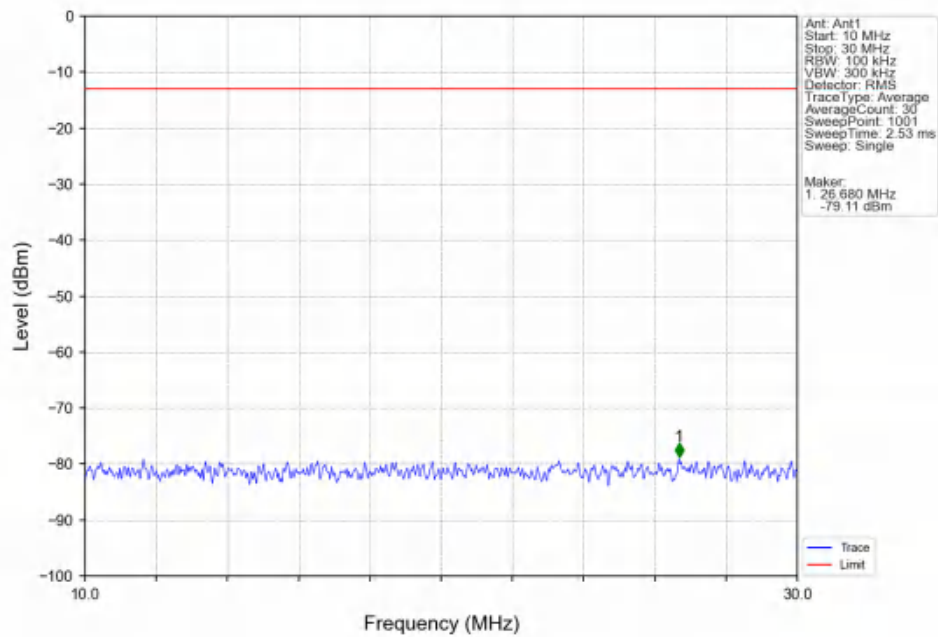
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



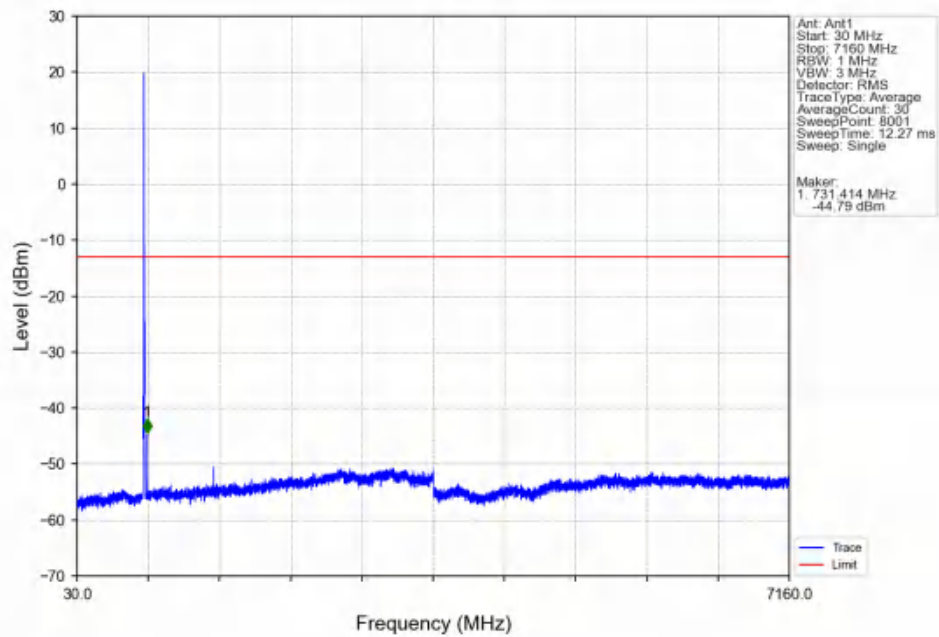
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



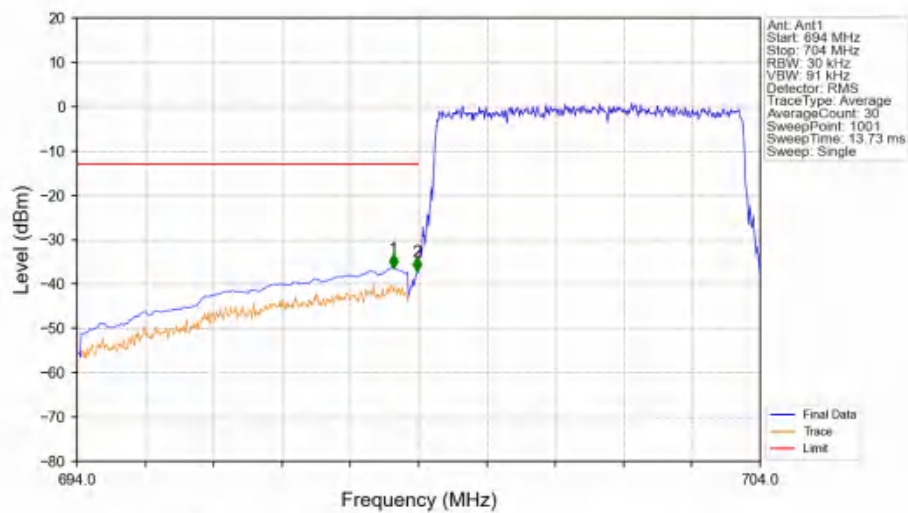
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV

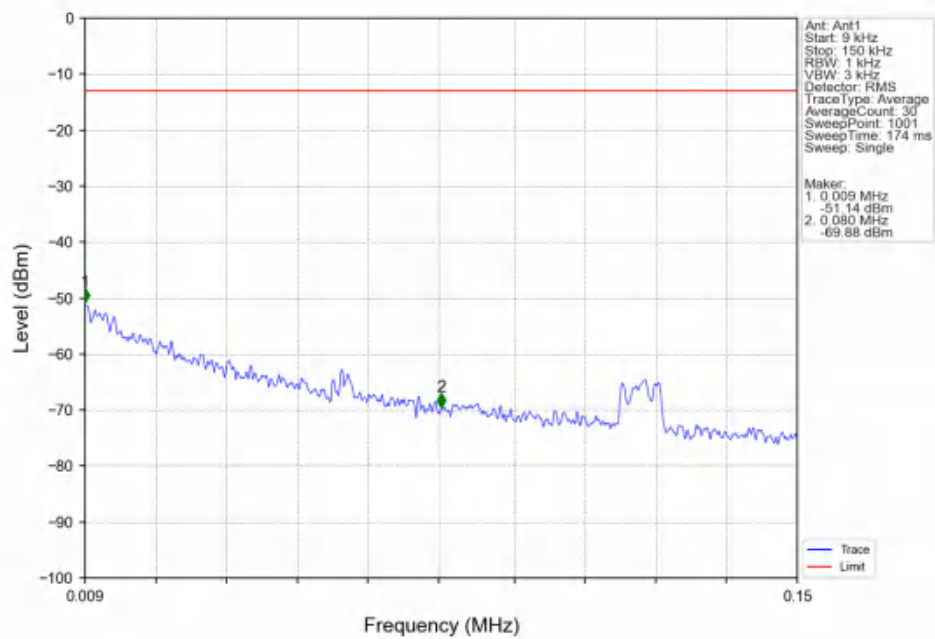


Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

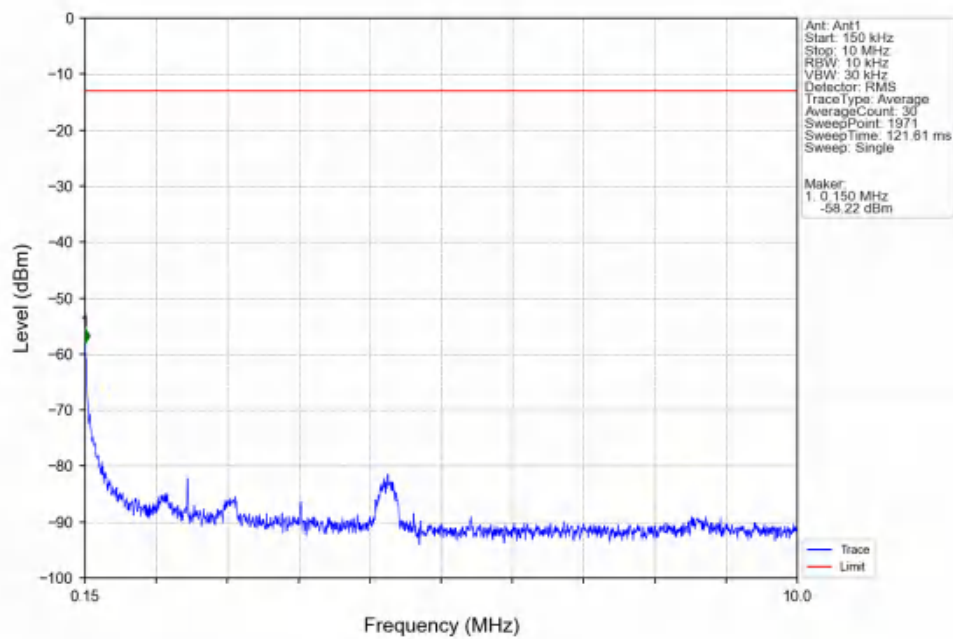


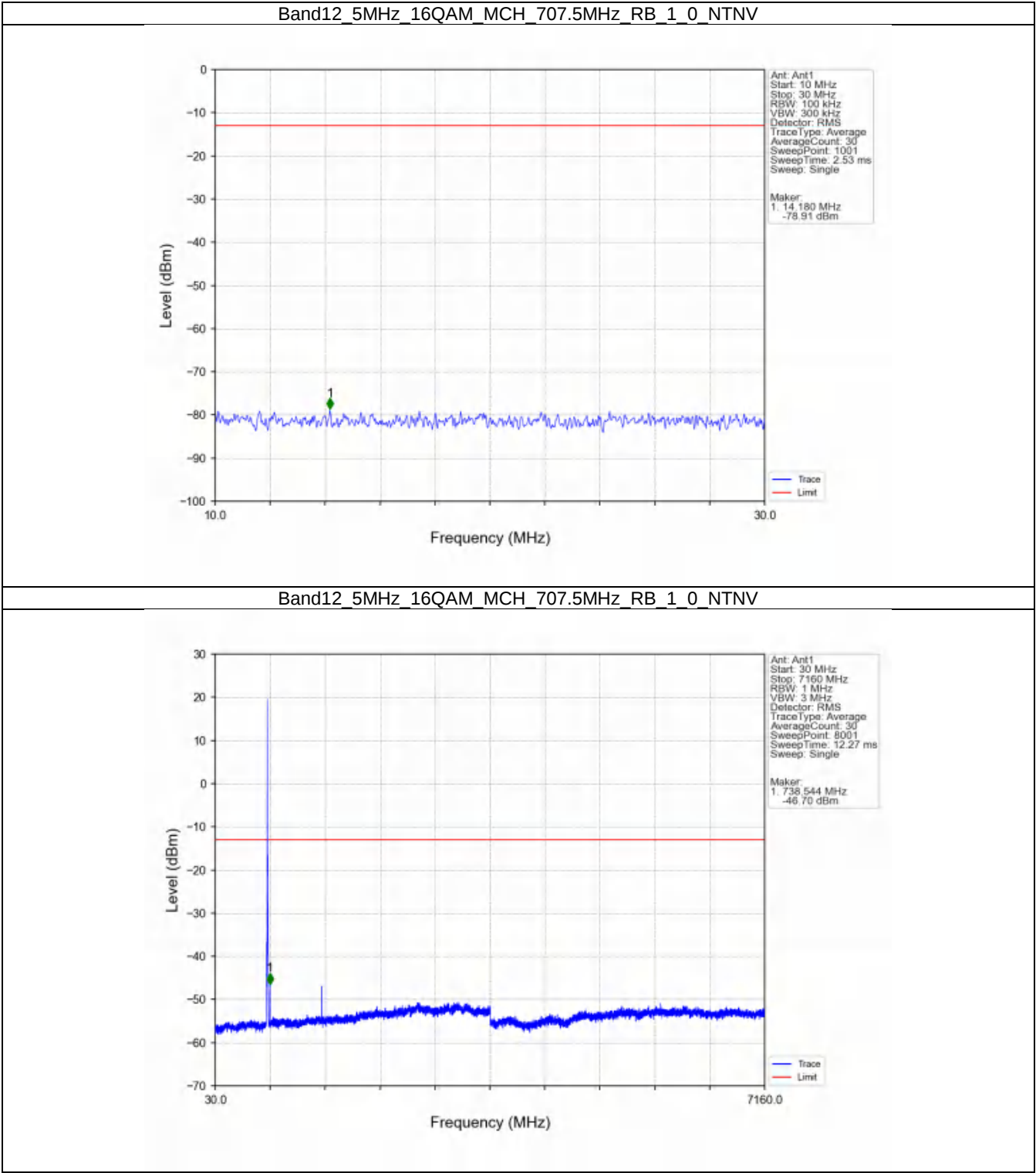
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.630    | -36.37      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.980    | -37.14      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV

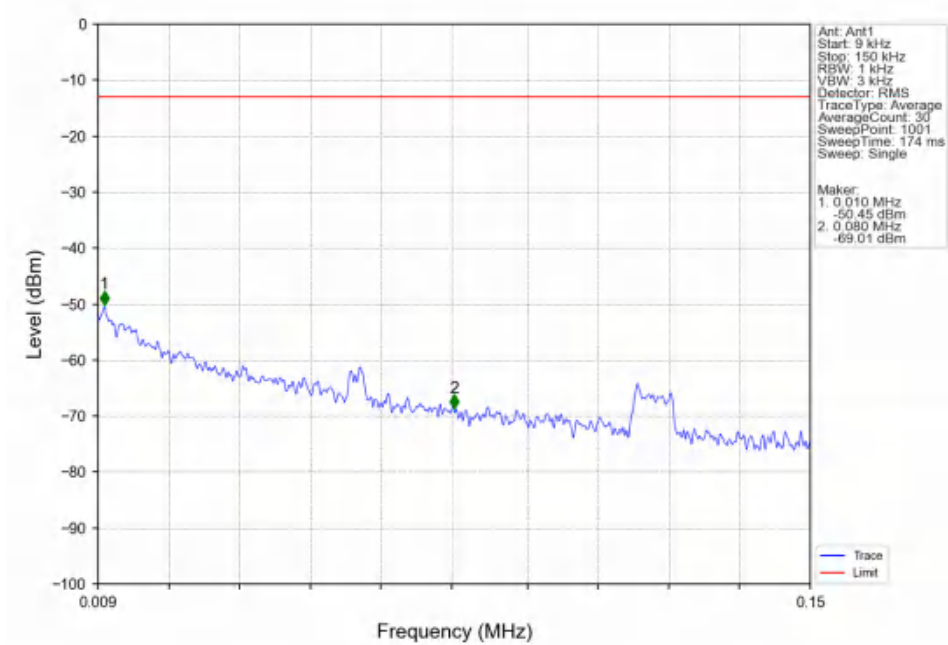


Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV

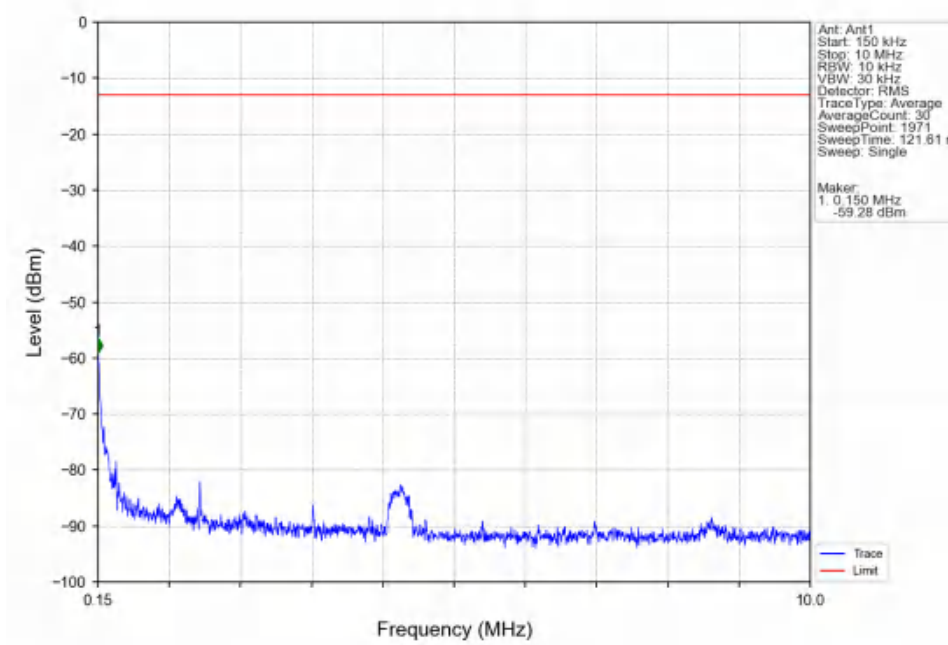




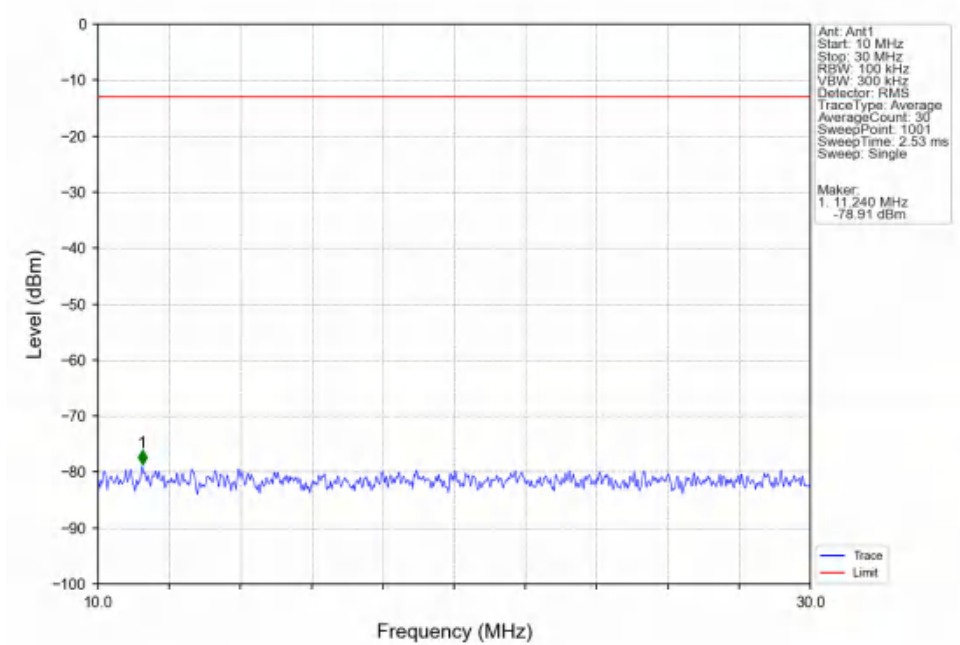
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



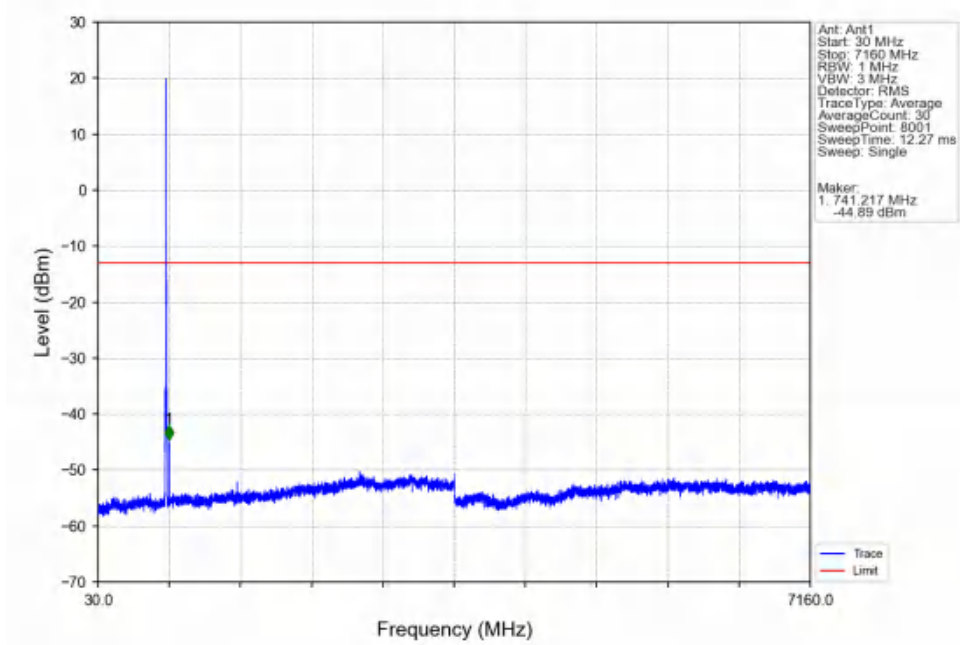
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



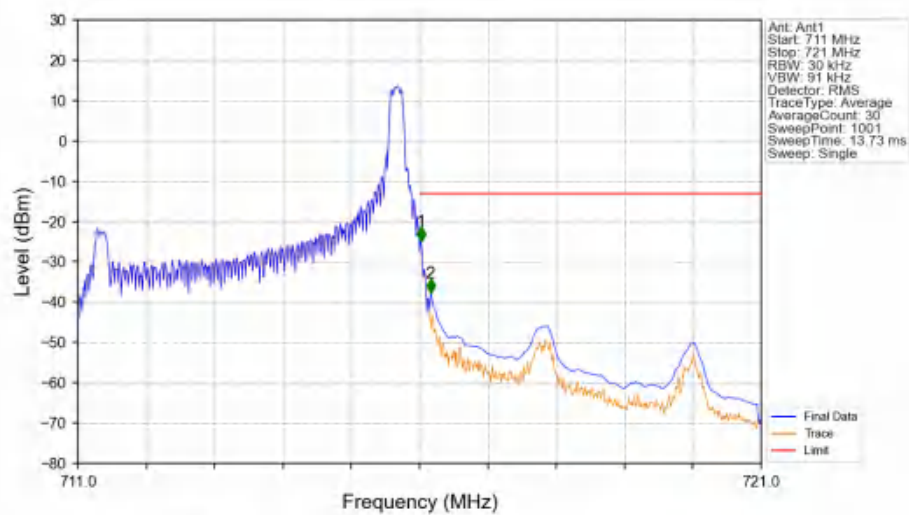
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



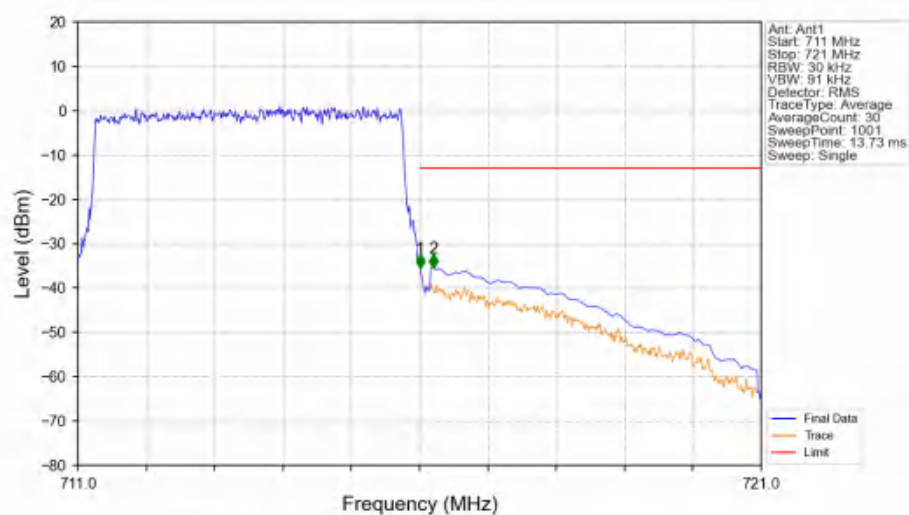
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



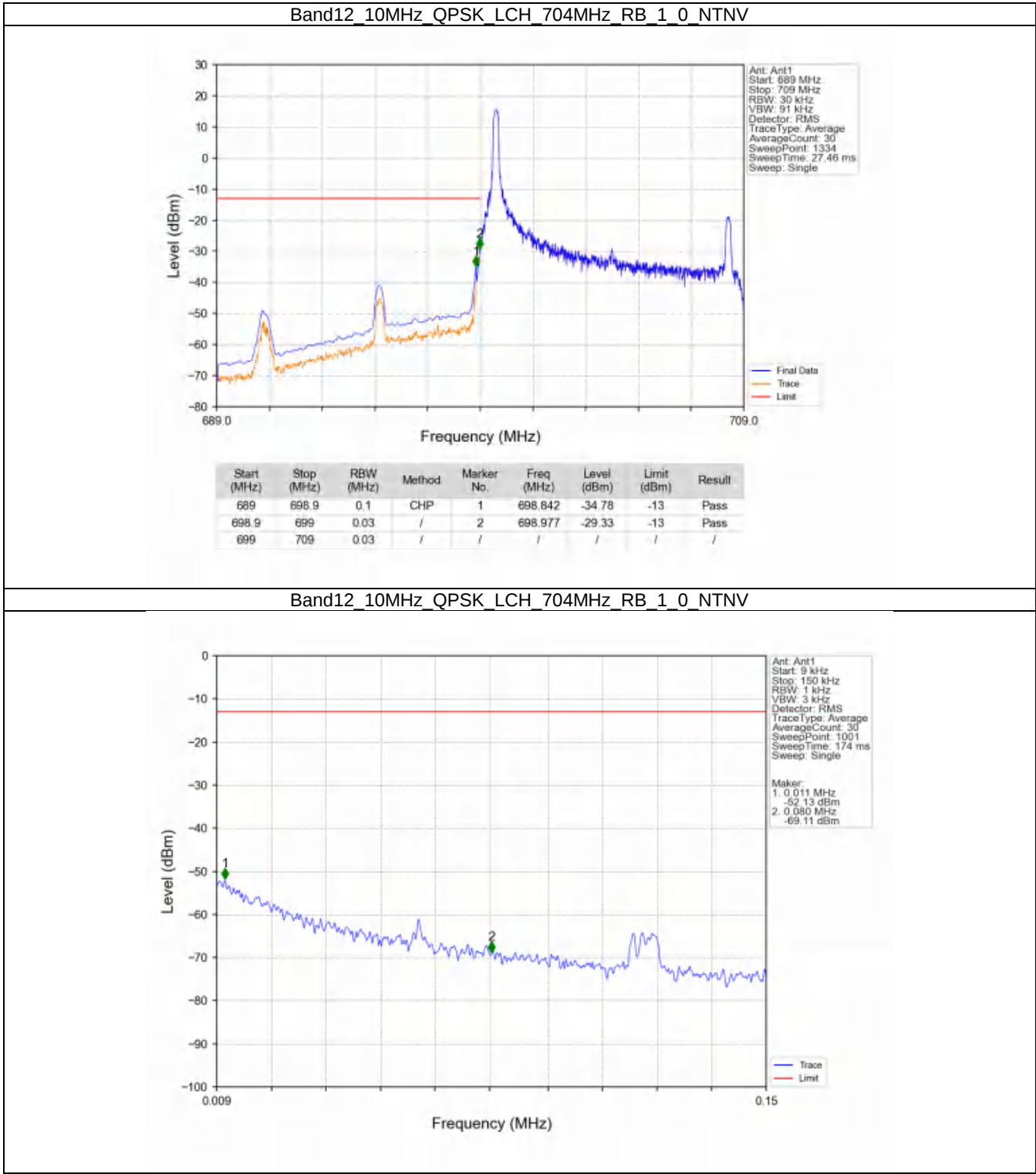
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



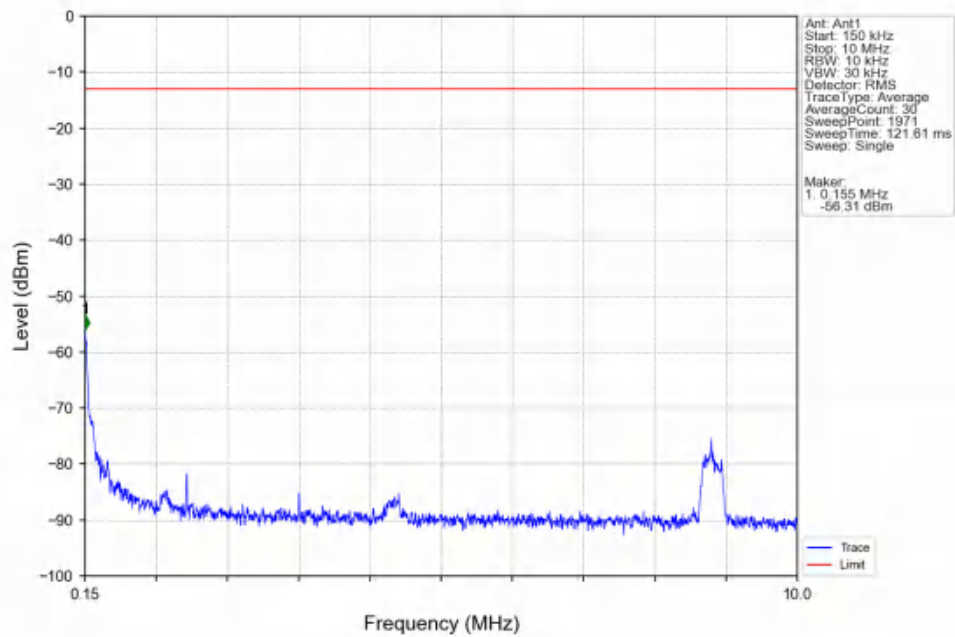
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



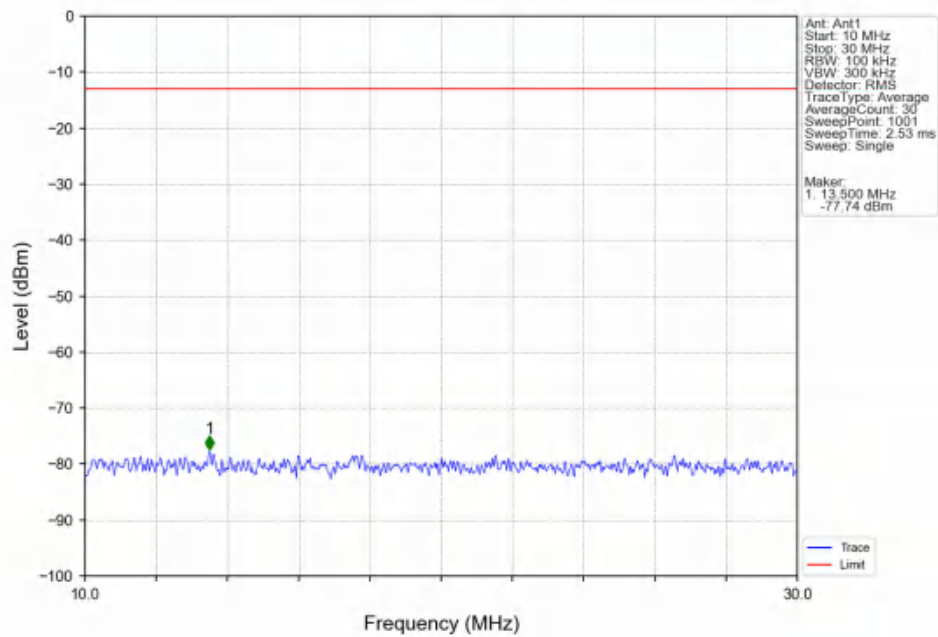
6.2.4 B12\_10MHz



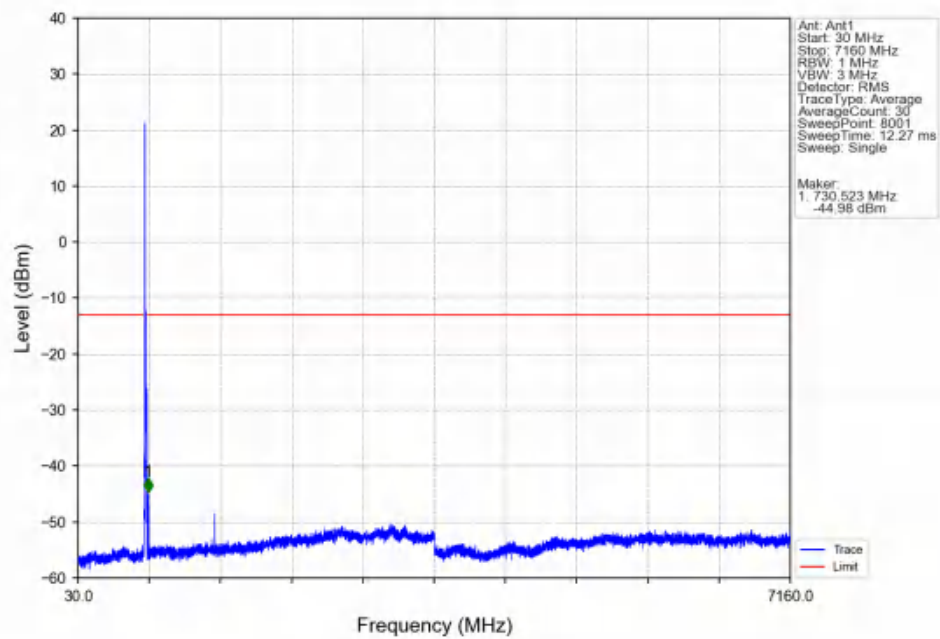
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_1\_0\_NTNV



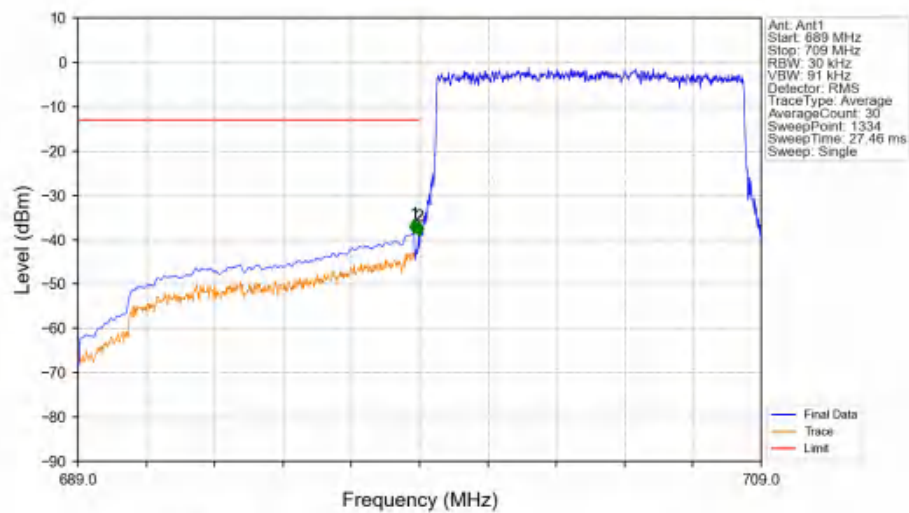
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_1\_0\_NTNV



Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_1\_0\_NTNV

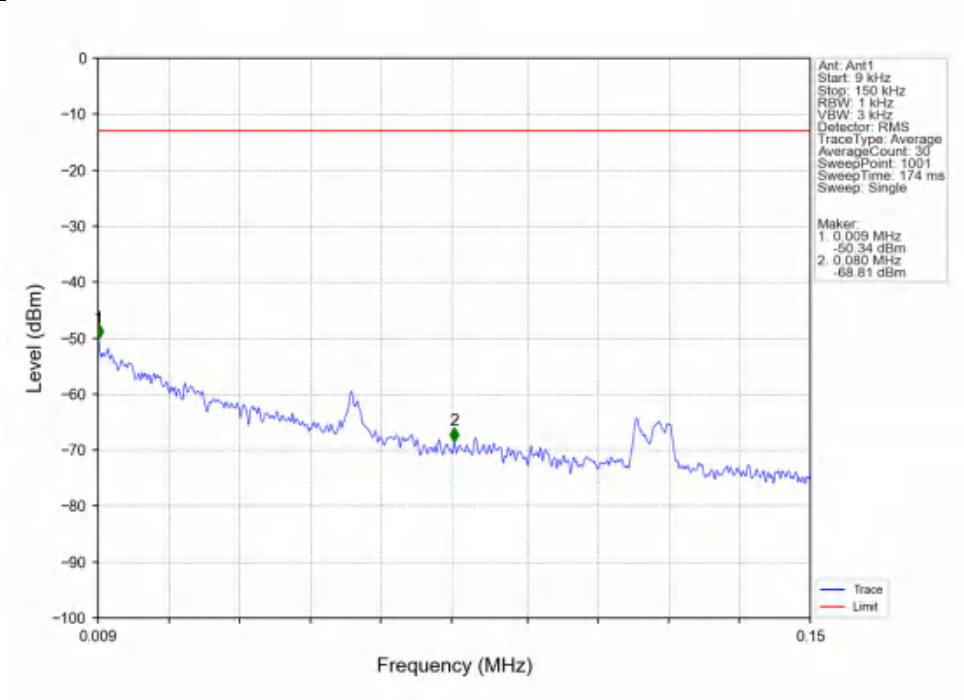


Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV

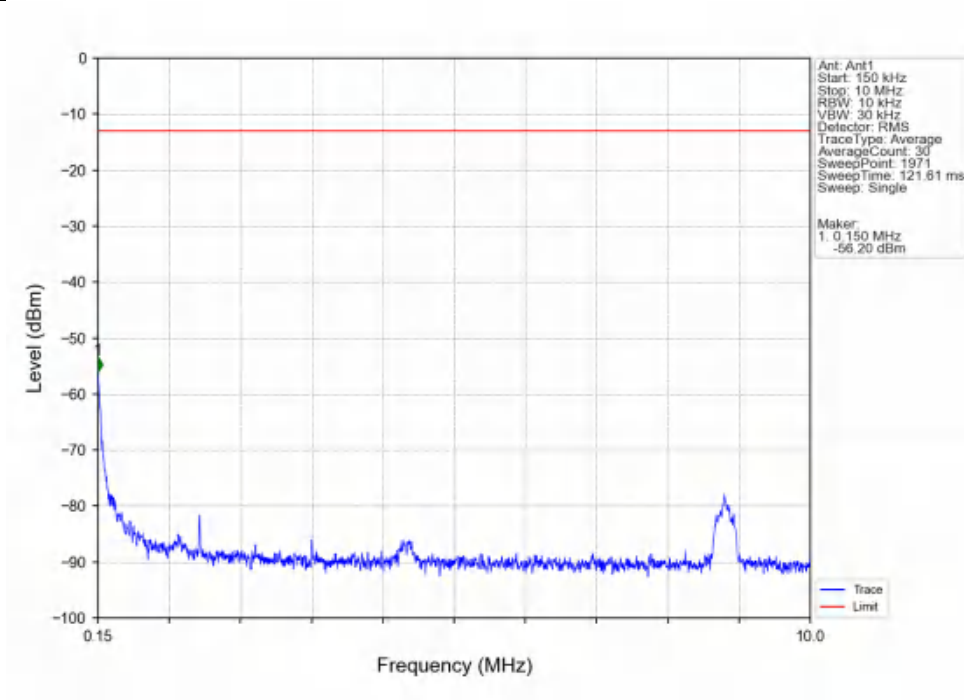


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -38.55      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.977    | -39.08      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

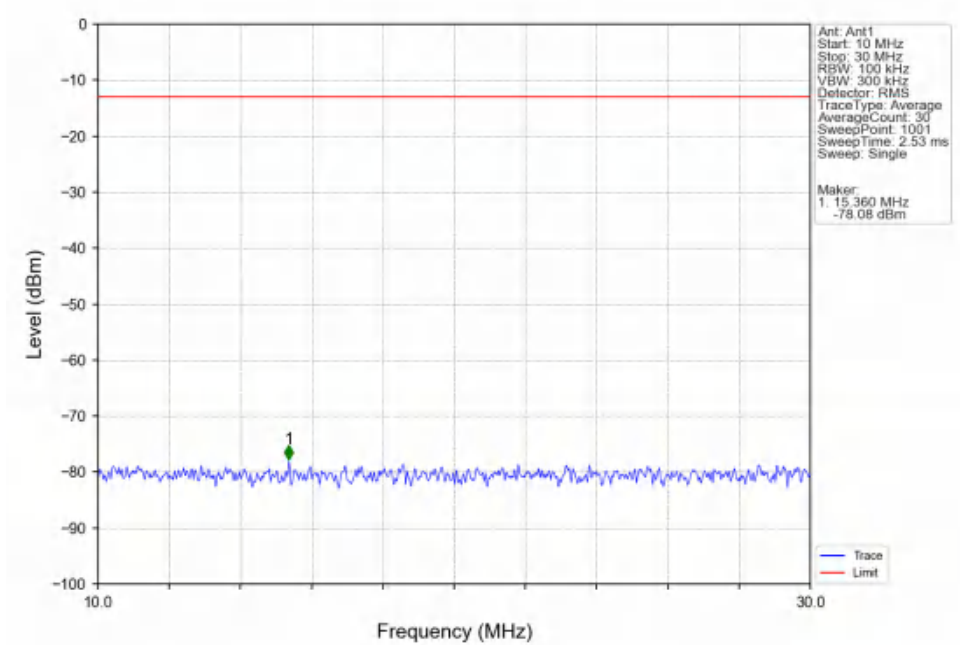
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



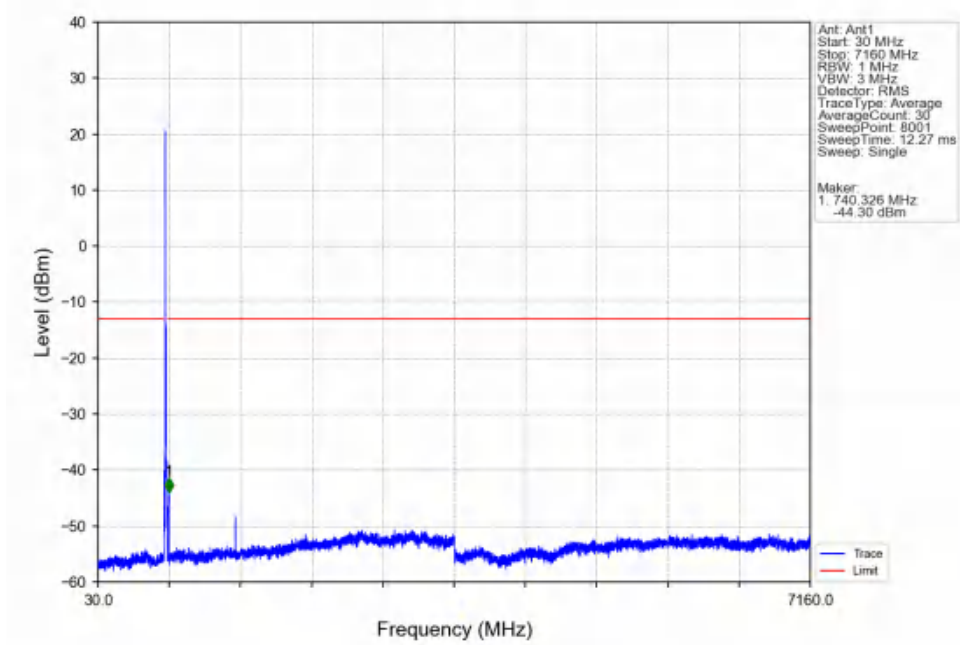
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



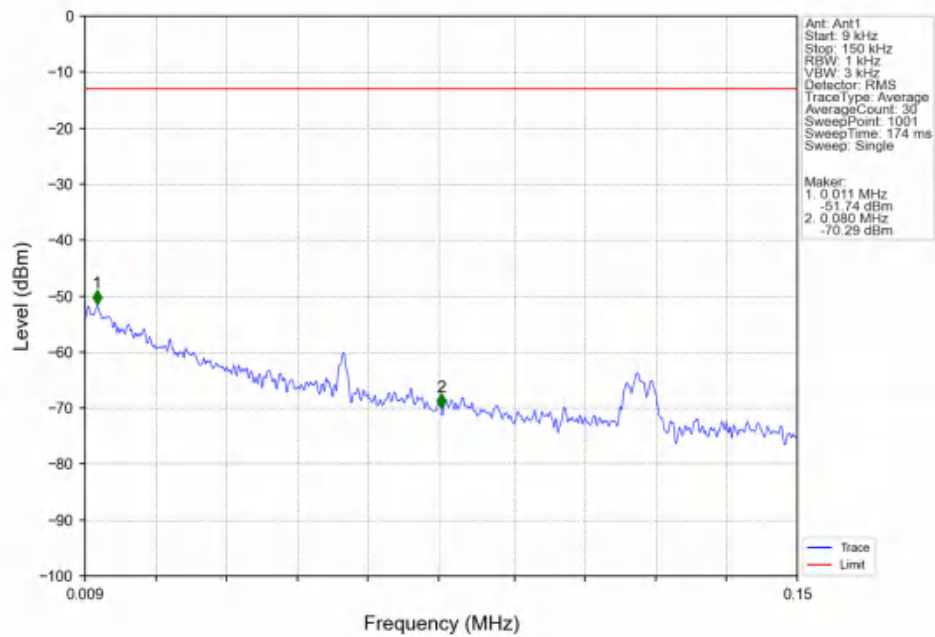
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



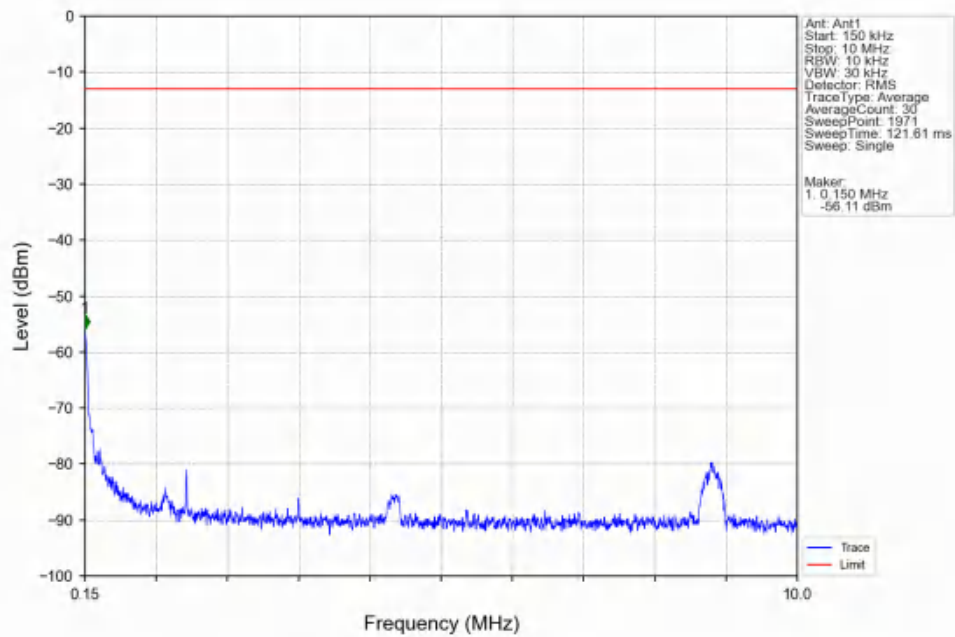
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



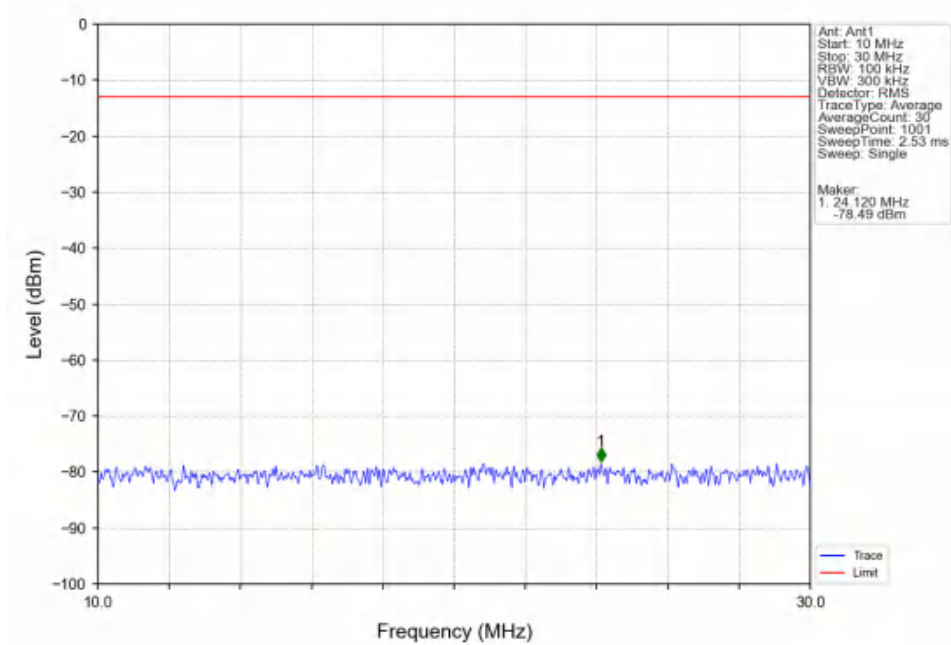
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV



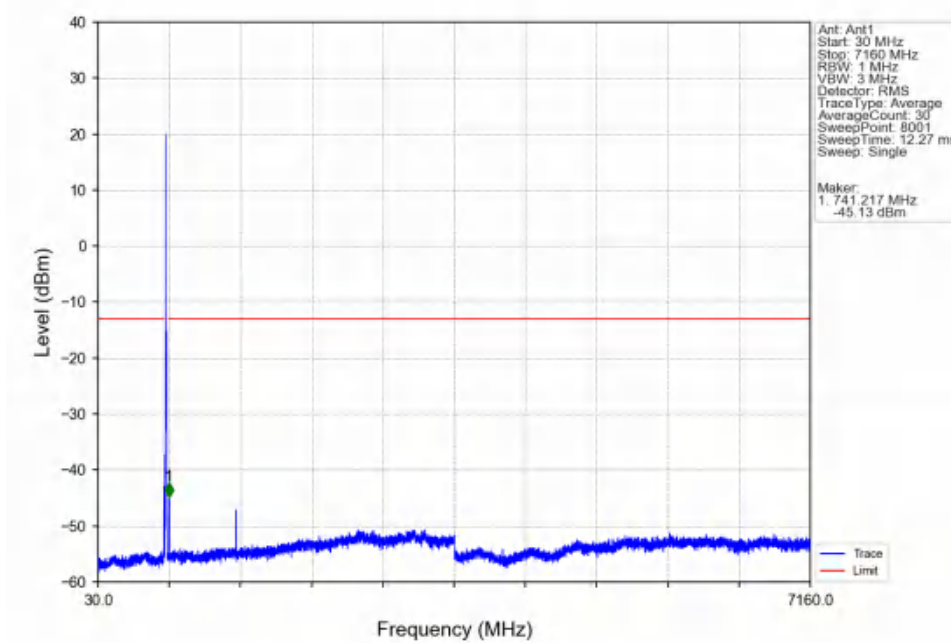
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV



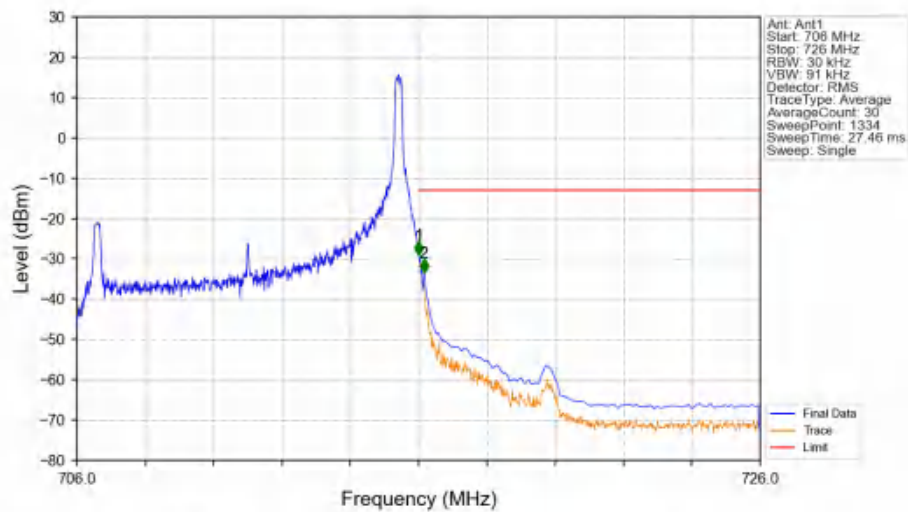
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV



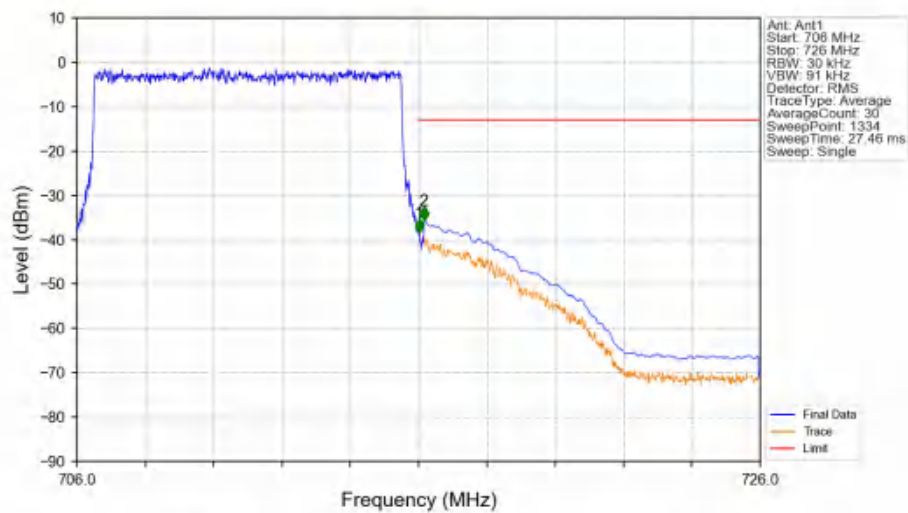
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV



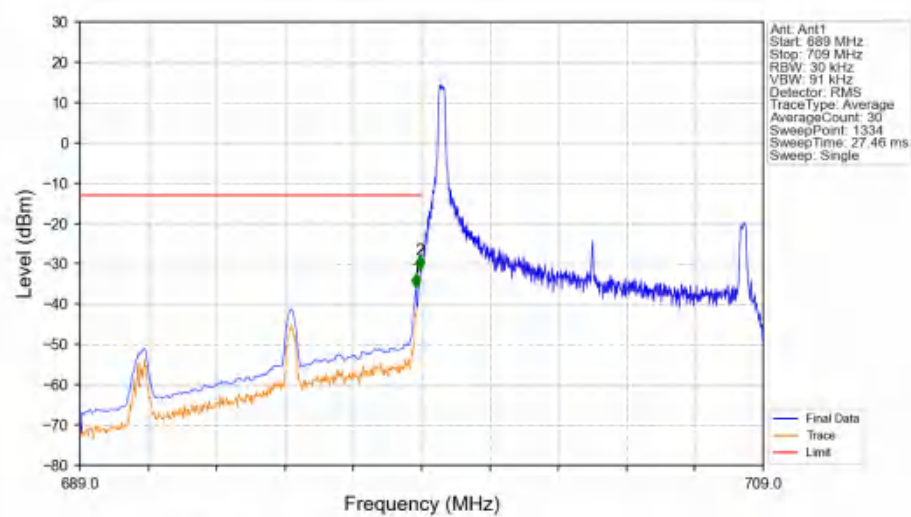
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV



Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV

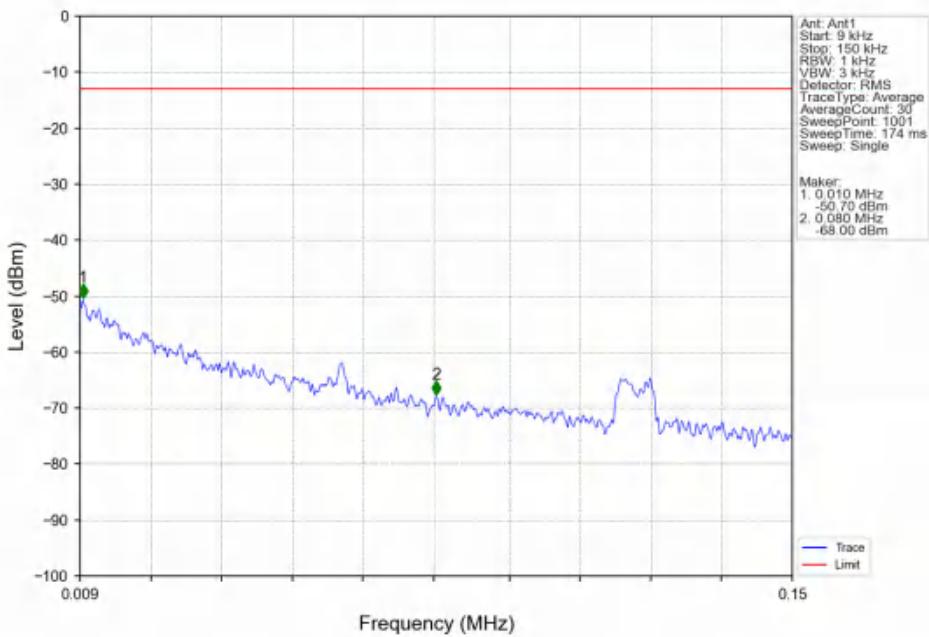


Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV

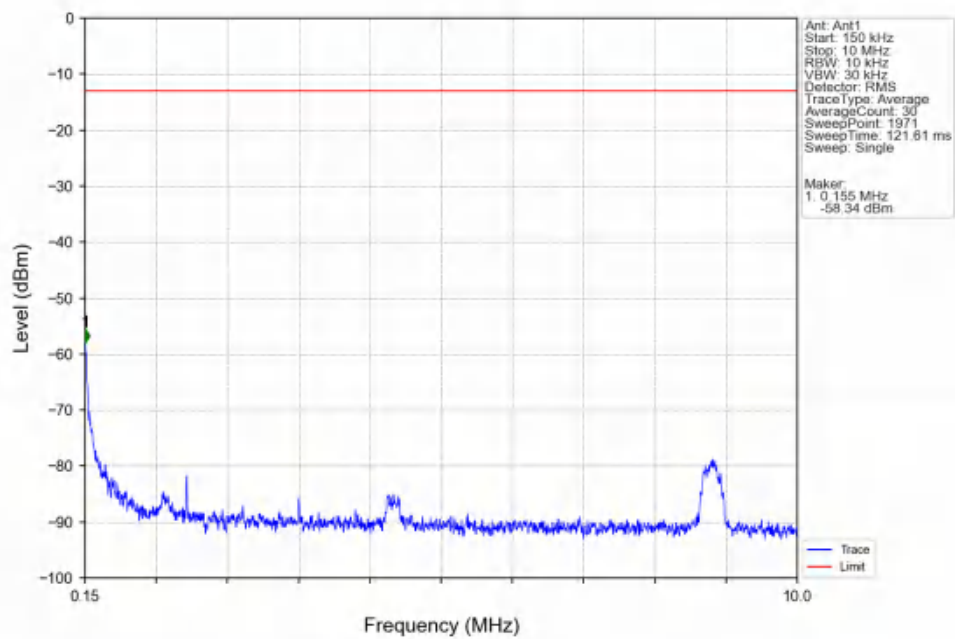


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -35.78      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.962    | -31.45      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

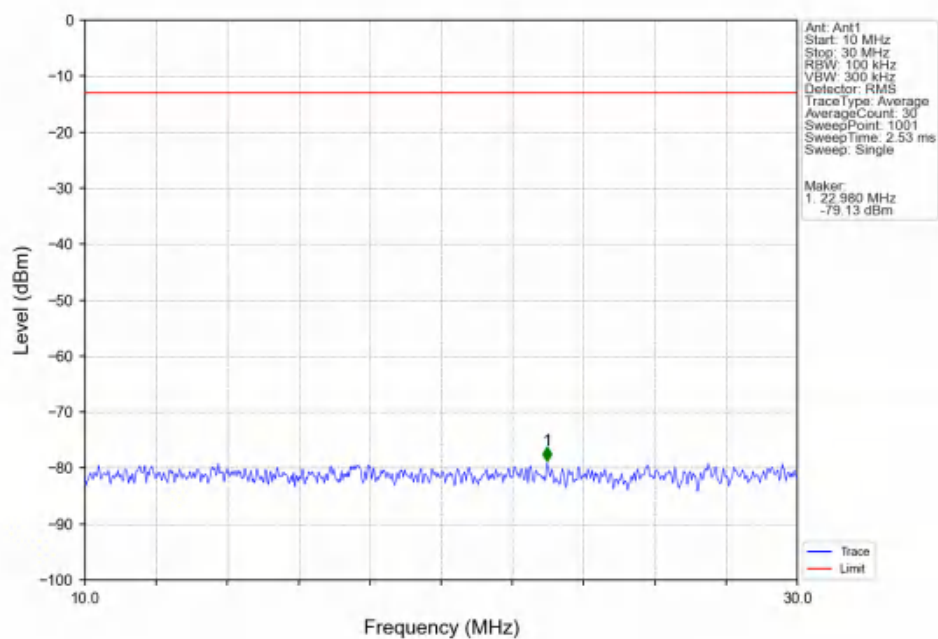
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV



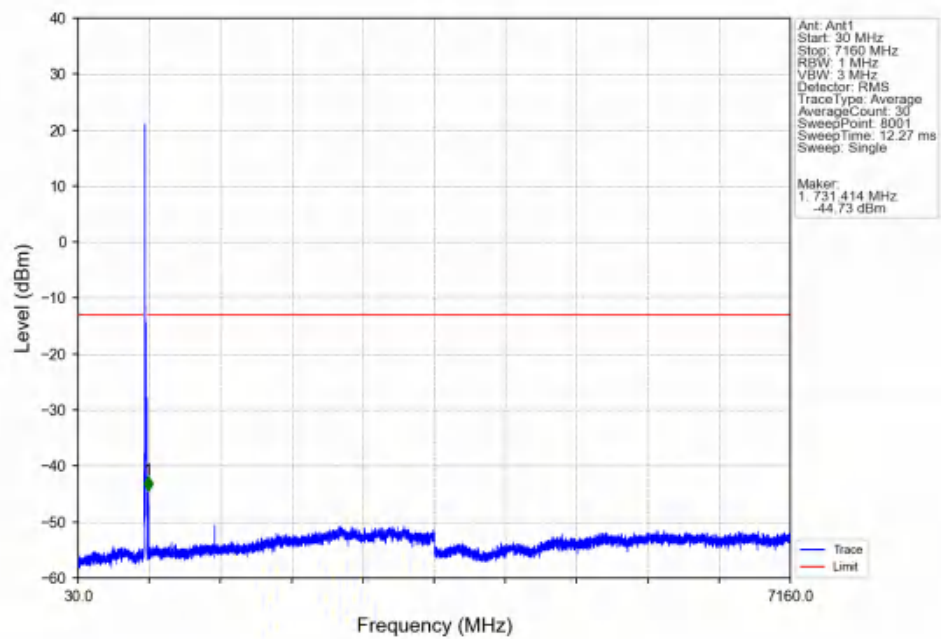
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV



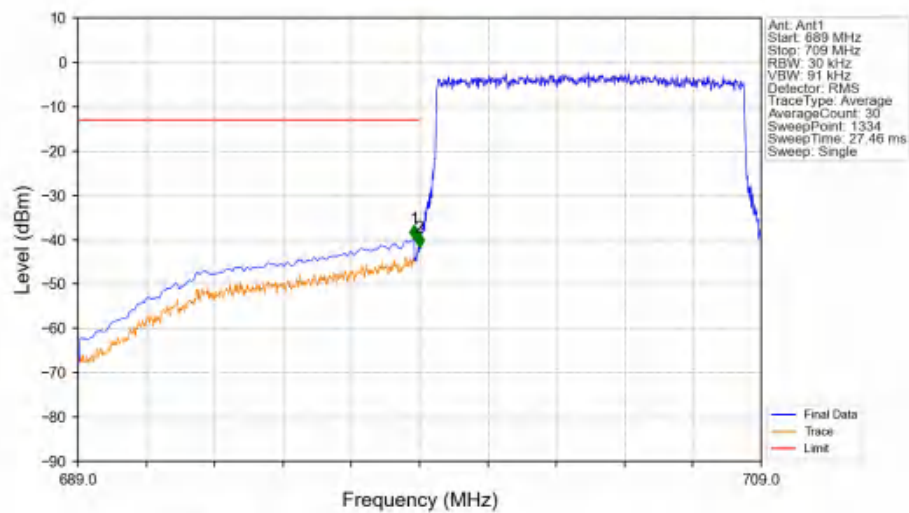
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV



Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV

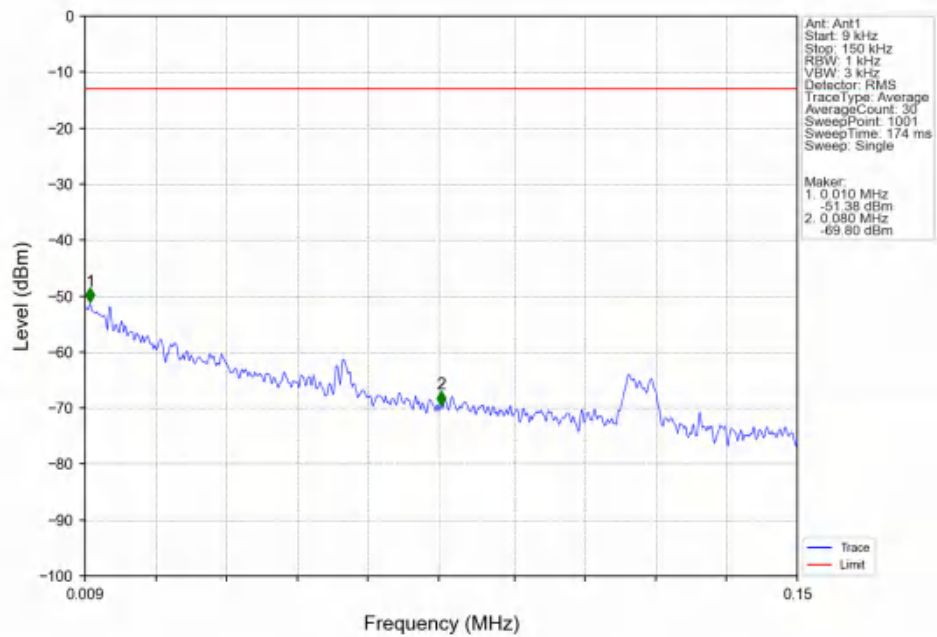


Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV

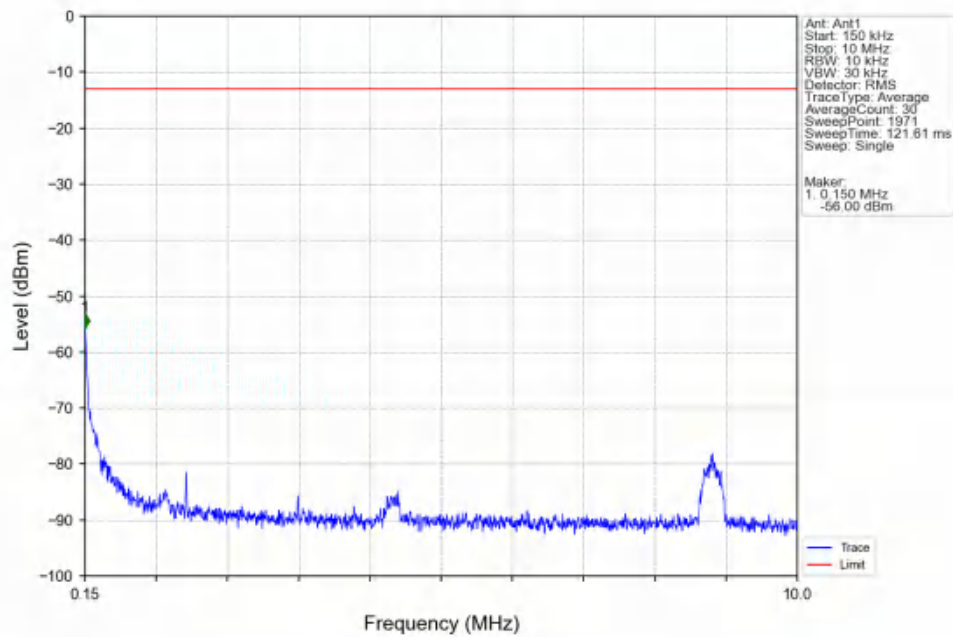


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -39.76      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.992    | -41.62      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

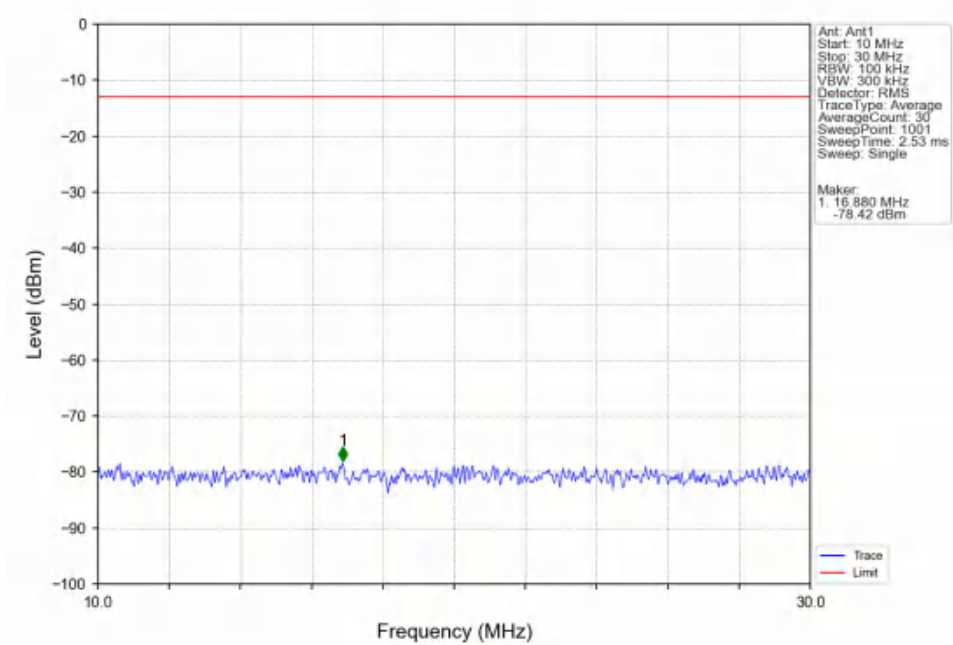
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



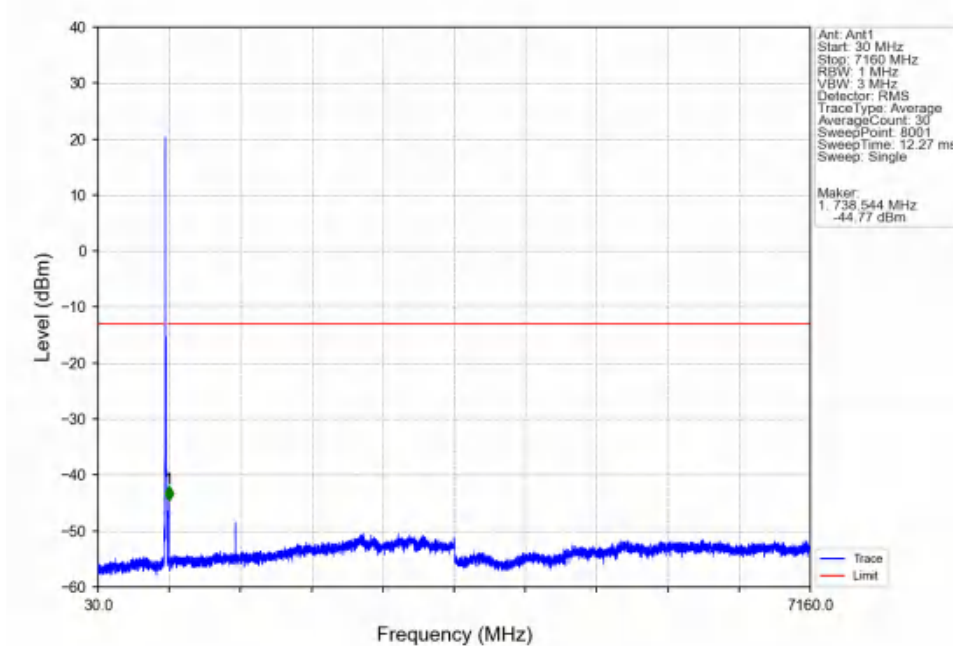
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



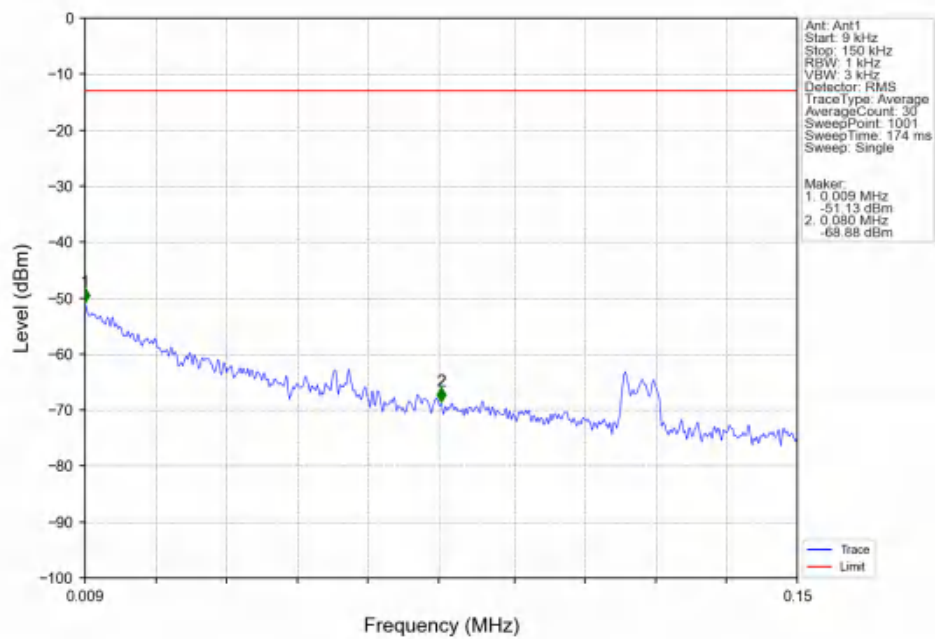
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



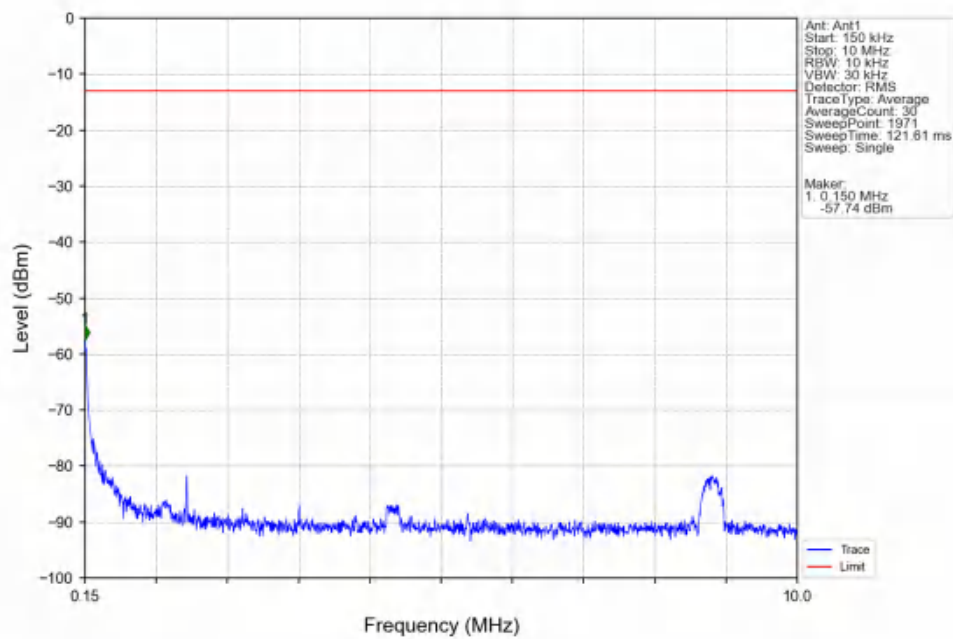
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



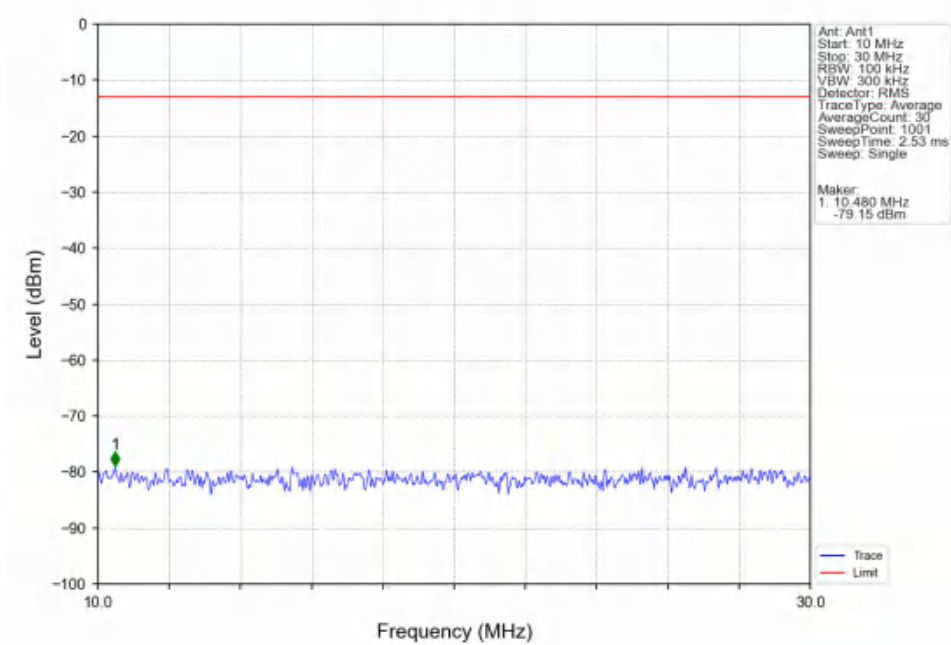
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV



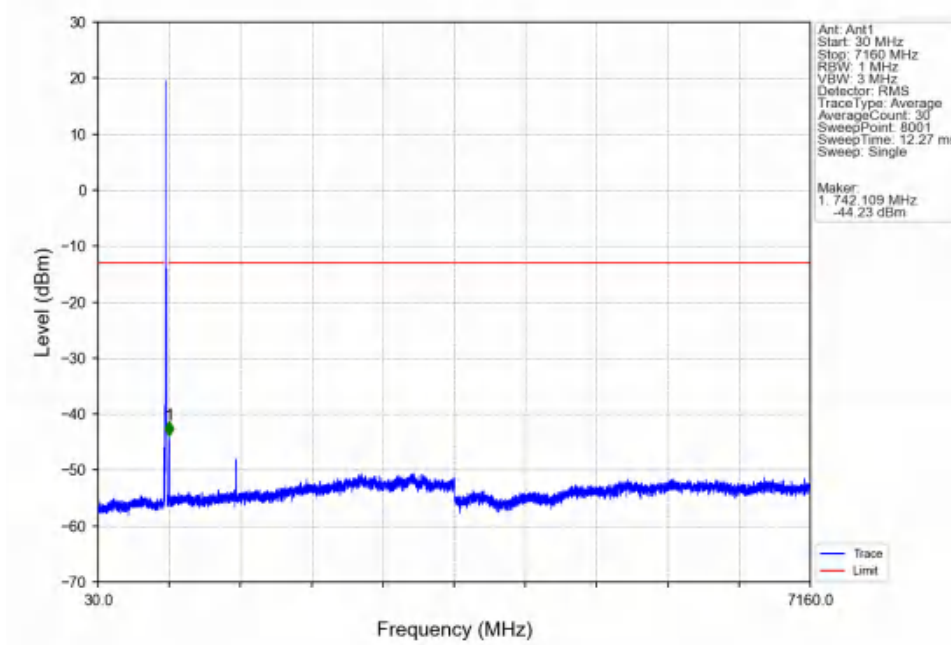
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV



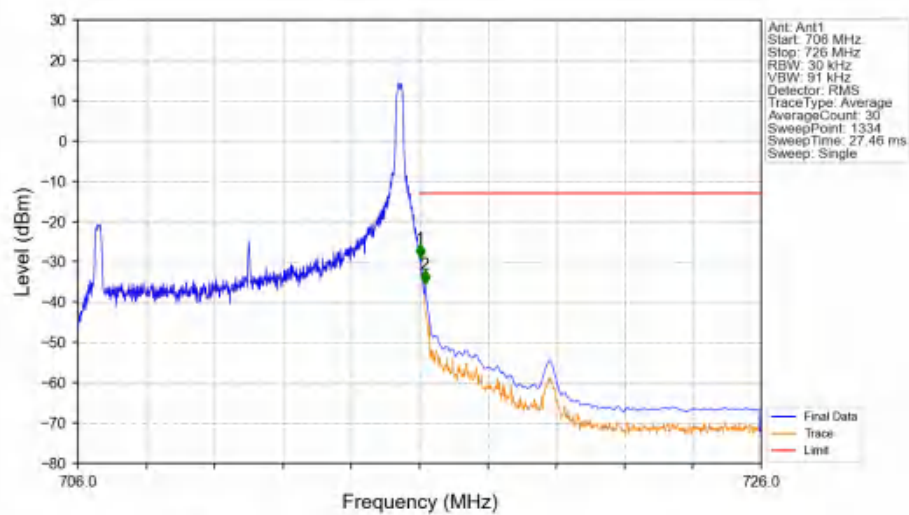
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV

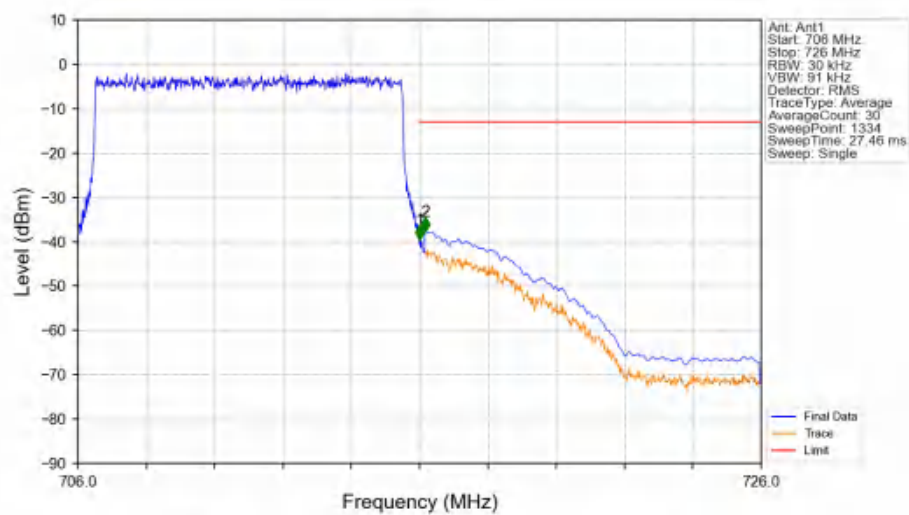


Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_49\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.023    | -29.13      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -35.47      | -13         | Pass   |

Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.008    | -39.52      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.173    | -37.73      | -13         | Pass   |