

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B12\_1.4MHz\_ERP

### 1.1.1 Test Result

| 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      | 21.39                 | -1.65      | 17.59     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 2      | 21.50                 | -1.65      | 17.70     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 5      | 21.39                 | -1.65      | 17.59     | <=34.77 | Pass    |         |      |
|                                     |                 | 3             | 0      | 21.45                 | -1.65      | 17.65     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 2      | 21.52                 | -1.65      | 17.72     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 3      | 21.40                 | -1.65      | 17.60     | <=34.77 | Pass    |         |      |
|                                     |                 | 6             | 0      | 20.54                 | -1.65      | 16.74     | <=34.77 | Pass    |         |      |
|                                     |                 | 707.5         | 1      | 0                     | 21.73      | -1.65     | 17.93   | <=34.77 | Pass    |      |
|                                     |                 |               |        | 2                     | 21.85      | -1.65     | 18.05   | <=34.77 | Pass    |      |
|                                     | 5               |               |        | 21.77                 | -1.65      | 17.97     | <=34.77 | Pass    |         |      |
|                                     | 3               |               | 0      | 21.74                 | -1.65      | 17.94     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 2      | 21.81                 | -1.65      | 18.01     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 3      | 21.79                 | -1.65      | 17.99     | <=34.77 | Pass    |         |      |
|                                     | 6               |               | 0      | 20.87                 | -1.65      | 17.07     | <=34.77 | Pass    |         |      |
|                                     | 715.3           |               | 1      | 0                     | 21.89      | -1.65     | 18.09   | <=34.77 | Pass    |      |
|                                     |                 |               |        | 2                     | 22.05      | -1.65     | 18.25   | <=34.77 | Pass    |      |
|                                     |                 | 5             |        | 22.00                 | -1.65      | 18.20     | <=34.77 | Pass    |         |      |
|                                     |                 | 3             | 0      | 21.91                 | -1.65      | 18.11     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 2      | 21.97                 | -1.65      | 18.17     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 3      | 21.90                 | -1.65      | 18.10     | <=34.77 | Pass    |         |      |
|                                     |                 | 6             | 0      | 21.13                 | -1.65      | 17.33     | <=34.77 | Pass    |         |      |
|                                     |                 | 16QAM         | 699.7  | 1                     | 0          | 20.39     | -1.65   | 16.59   | <=34.77 | Pass |
|                                     |                 |               |        |                       | 2          | 20.48     | -1.65   | 16.68   | <=34.77 | Pass |
|                                     | 5               |               |        |                       | 20.42      | -1.65     | 16.62   | <=34.77 | Pass    |      |
| 3                                   | 0               |               |        | 20.63                 | -1.65      | 16.83     | <=34.77 | Pass    |         |      |
|                                     | 2               |               |        | 20.71                 | -1.65      | 16.91     | <=34.77 | Pass    |         |      |
|                                     | 3               |               |        | 20.69                 | -1.65      | 16.89     | <=34.77 | Pass    |         |      |
| 6                                   | 0               |               |        | 19.50                 | -1.65      | 15.70     | <=34.77 | Pass    |         |      |
| 707.5                               | 1               |               |        | 0                     | 20.76      | -1.65     | 16.96   | <=34.77 | Pass    |      |
|                                     |                 |               |        | 2                     | 20.83      | -1.65     | 17.03   | <=34.77 | Pass    |      |
|                                     |                 |               | 5      | 20.78                 | -1.65      | 16.98     | <=34.77 | Pass    |         |      |
|                                     | 3               |               | 0      | 20.87                 | -1.65      | 17.07     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 2      | 20.86                 | -1.65      | 17.06     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 3      | 20.85                 | -1.65      | 17.05     | <=34.77 | Pass    |         |      |
|                                     | 6               |               | 0      | 19.74                 | -1.65      | 15.94     | <=34.77 | Pass    |         |      |
|                                     | 715.3           |               | 1      | 0                     | 20.99      | -1.65     | 17.19   | <=34.77 | Pass    |      |
|                                     |                 |               |        | 2                     | 21.13      | -1.65     | 17.33   | <=34.77 | Pass    |      |
| 5                                   |                 |               |        | 21.00                 | -1.65      | 17.20     | <=34.77 | Pass    |         |      |
| 3                                   |                 |               | 0      | 20.88                 | -1.65      | 17.08     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 2      | 20.87                 | -1.65      | 17.07     | <=34.77 | Pass    |         |      |
|                                     |                 |               | 3      | 20.88                 | -1.65      | 17.08     | <=34.77 | Pass    |         |      |
| 6                                   |                 |               | 0      | 19.99                 | -1.65      | 16.19     | <=34.77 | Pass    |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B12\_3MHz\_ERP

### 1.2.1 Test Result

| 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      | 21.52                 | -1.65      | 17.72     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 7      | 21.64                 | -1.65      | 17.84     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 14     | 21.56                 | -1.65      | 17.76     | <=34.77 | Pass    |         |      |
|                                   |                 | 8             | 0      | 20.56                 | -1.65      | 16.76     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 4      | 20.60                 | -1.65      | 16.80     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 7      | 20.57                 | -1.65      | 16.77     | <=34.77 | Pass    |         |      |
|                                   |                 | 15            | 0      | 20.52                 | -1.65      | 16.72     | <=34.77 | Pass    |         |      |
|                                   |                 | 707.5         | 1      | 0                     | 21.71      | -1.65     | 17.91   | <=34.77 | Pass    |      |
|                                   |                 |               |        | 7                     | 21.90      | -1.65     | 18.10   | <=34.77 | Pass    |      |
|                                   | 14              |               |        | 21.78                 | -1.65      | 17.98     | <=34.77 | Pass    |         |      |
|                                   | 8               |               | 0      | 20.79                 | -1.65      | 16.99     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 4      | 20.95                 | -1.65      | 17.15     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 7      | 20.87                 | -1.65      | 17.07     | <=34.77 | Pass    |         |      |
|                                   | 15              |               | 0      | 20.83                 | -1.65      | 17.03     | <=34.77 | Pass    |         |      |
|                                   | 714.5           |               | 1      | 0                     | 21.94      | -1.65     | 18.14   | <=34.77 | Pass    |      |
|                                   |                 |               |        | 7                     | 22.07      | -1.65     | 18.27   | <=34.77 | Pass    |      |
|                                   |                 | 14            |        | 22.07                 | -1.65      | 18.27     | <=34.77 | Pass    |         |      |
|                                   |                 | 8             | 0      | 20.99                 | -1.65      | 17.19     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 4      | 21.04                 | -1.65      | 17.24     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 7      | 21.05                 | -1.65      | 17.25     | <=34.77 | Pass    |         |      |
|                                   |                 | 15            | 0      | 20.96                 | -1.65      | 17.16     | <=34.77 | Pass    |         |      |
|                                   |                 | 16QAM         | 700.5  | 1                     | 0          | 20.48     | -1.65   | 16.68   | <=34.77 | Pass |
|                                   |                 |               |        |                       | 7          | 20.67     | -1.65   | 16.87   | <=34.77 | Pass |
|                                   | 14              |               |        |                       | 20.61      | -1.65     | 16.81   | <=34.77 | Pass    |      |
|                                   | 8               |               |        | 0                     | 19.55      | -1.65     | 15.75   | <=34.77 | Pass    |      |
|                                   |                 |               |        | 4                     | 19.61      | -1.65     | 15.81   | <=34.77 | Pass    |      |
|                                   |                 |               |        | 7                     | 19.59      | -1.65     | 15.79   | <=34.77 | Pass    |      |
| 15                                | 0               |               |        | 19.55                 | -1.65      | 15.75     | <=34.77 | Pass    |         |      |
| 707.5                             | 1               |               |        | 0                     | 20.88      | -1.65     | 17.08   | <=34.77 | Pass    |      |
|                                   |                 |               |        | 7                     | 21.08      | -1.65     | 17.28   | <=34.77 | Pass    |      |
|                                   |                 |               | 14     | 20.93                 | -1.65      | 17.13     | <=34.77 | Pass    |         |      |
|                                   | 8               |               | 0      | 19.72                 | -1.65      | 15.92     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 4      | 19.81                 | -1.65      | 16.01     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 7      | 19.79                 | -1.65      | 15.99     | <=34.77 | Pass    |         |      |
|                                   | 15              |               | 0      | 19.77                 | -1.65      | 15.97     | <=34.77 | Pass    |         |      |
|                                   | 714.5           |               | 1      | 0                     | 21.38      | -1.65     | 17.58   | <=34.77 | Pass    |      |
|                                   |                 |               |        | 7                     | 21.46      | -1.65     | 17.66   | <=34.77 | Pass    |      |
| 14                                |                 |               |        | 21.31                 | -1.65      | 17.51     | <=34.77 | Pass    |         |      |
| 8                                 |                 |               | 0      | 20.06                 | -1.65      | 16.26     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 4      | 20.10                 | -1.65      | 16.30     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 7      | 20.10                 | -1.65      | 16.30     | <=34.77 | Pass    |         |      |
| 15                                |                 |               | 0      | 19.96                 | -1.65      | 16.16     | <=34.77 | Pass    |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.3 B12\_5MHz\_ERP

#### 1.3.1 Test Result

|                                   |
|-----------------------------------|
| 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      | 21.37                 | -1.65      | 17.57     | <=34.77 | Pass    |         |      |
|            |                 |               | 13     | 21.63                 | -1.65      | 17.83     | <=34.77 | Pass    |         |      |
|            |                 |               | 24     | 21.58                 | -1.65      | 17.78     | <=34.77 | Pass    |         |      |
|            |                 | 12            | 0      | 20.48                 | -1.65      | 16.68     | <=34.77 | Pass    |         |      |
|            |                 |               | 6      | 20.57                 | -1.65      | 16.77     | <=34.77 | Pass    |         |      |
|            |                 |               | 13     | 20.54                 | -1.65      | 16.74     | <=34.77 | Pass    |         |      |
|            |                 | 25            | 0      | 20.52                 | -1.65      | 16.72     | <=34.77 | Pass    |         |      |
|            |                 | 707.5         | 1      | 0                     | 21.53      | -1.65     | 17.73   | <=34.77 | Pass    |      |
|            |                 |               |        | 13                    | 21.78      | -1.65     | 17.98   | <=34.77 | Pass    |      |
|            | 24              |               |        | 21.73                 | -1.65      | 17.93     | <=34.77 | Pass    |         |      |
|            | 12              |               | 0      | 20.70                 | -1.65      | 16.90     | <=34.77 | Pass    |         |      |
|            |                 |               | 6      | 20.79                 | -1.65      | 16.99     | <=34.77 | Pass    |         |      |
|            |                 |               | 13     | 20.85                 | -1.65      | 17.05     | <=34.77 | Pass    |         |      |
|            | 25              |               | 0      | 20.76                 | -1.65      | 16.96     | <=34.77 | Pass    |         |      |
|            | 713.5           |               | 1      | 0                     | 21.72      | -1.65     | 17.92   | <=34.77 | Pass    |      |
|            |                 |               |        | 13                    | 21.94      | -1.65     | 18.14   | <=34.77 | Pass    |      |
|            |                 | 24            |        | 21.99                 | -1.65      | 18.19     | <=34.77 | Pass    |         |      |
|            |                 | 12            | 0      | 20.97                 | -1.65      | 17.17     | <=34.77 | Pass    |         |      |
|            |                 |               | 6      | 20.96                 | -1.65      | 17.16     | <=34.77 | Pass    |         |      |
|            |                 |               | 13     | 20.91                 | -1.65      | 17.11     | <=34.77 | Pass    |         |      |
|            |                 | 25            | 0      | 20.96                 | -1.65      | 17.16     | <=34.77 | Pass    |         |      |
|            |                 | 16QAM         | 701.5  | 1                     | 0          | 20.44     | -1.65   | 16.64   | <=34.77 | Pass |
|            |                 |               |        |                       | 13         | 20.72     | -1.65   | 16.92   | <=34.77 | Pass |
|            | 24              |               |        |                       | 20.69      | -1.65     | 16.89   | <=34.77 | Pass    |      |
| 12         | 0               |               |        | 19.51                 | -1.65      | 15.71     | <=34.77 | Pass    |         |      |
|            | 6               |               |        | 19.56                 | -1.65      | 15.76     | <=34.77 | Pass    |         |      |
|            | 13              |               |        | 19.59                 | -1.65      | 15.79     | <=34.77 | Pass    |         |      |
| 25         | 0               |               |        | 19.51                 | -1.65      | 15.71     | <=34.77 | Pass    |         |      |
| 707.5      | 1               |               |        | 0                     | 20.80      | -1.65     | 17.00   | <=34.77 | Pass    |      |
|            |                 |               |        | 13                    | 21.05      | -1.65     | 17.25   | <=34.77 | Pass    |      |
|            |                 |               | 24     | 20.99                 | -1.65      | 17.19     | <=34.77 | Pass    |         |      |
|            | 12              |               | 0      | 19.77                 | -1.65      | 15.97     | <=34.77 | Pass    |         |      |
|            |                 |               | 6      | 19.83                 | -1.65      | 16.03     | <=34.77 | Pass    |         |      |
|            |                 |               | 13     | 19.85                 | -1.65      | 16.05     | <=34.77 | Pass    |         |      |
|            | 25              |               | 0      | 19.72                 | -1.65      | 15.92     | <=34.77 | Pass    |         |      |
|            | 713.5           |               | 1      | 0                     | 20.59      | -1.65     | 16.79   | <=34.77 | Pass    |      |
|            |                 |               |        | 13                    | 20.76      | -1.65     | 16.96   | <=34.77 | Pass    |      |
| 24         |                 |               |        | 20.69                 | -1.65      | 16.89     | <=34.77 | Pass    |         |      |
| 12         |                 |               | 0      | 19.94                 | -1.65      | 16.14     | <=34.77 | Pass    |         |      |
|            |                 |               | 6      | 19.97                 | -1.65      | 16.17     | <=34.77 | Pass    |         |      |
|            |                 |               | 13     | 19.91                 | -1.65      | 16.11     | <=34.77 | Pass    |         |      |
| 25         |                 |               | 0      | 19.96                 | -1.65      | 16.16     | <=34.77 | Pass    |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.4 B12\_10MHz\_ERP

### 1.4.1 Test Result

| 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      | 21.50                 | -1.65      | 17.70     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 21.94                 | -1.65      | 18.14     | <=34.77 | Pass    |

|       |       |     |       |       |       |         |         |         |      |
|-------|-------|-----|-------|-------|-------|---------|---------|---------|------|
| 16QAM | 707.5 | 25  | 49    | 21.87 | -1.65 | 18.07   | <=34.77 | Pass    |      |
|       |       |     | 0     | 20.66 | -1.65 | 16.86   | <=34.77 | Pass    |      |
|       |       |     | 13    | 20.71 | -1.65 | 16.91   | <=34.77 | Pass    |      |
|       |       |     | 25    | 20.85 | -1.65 | 17.05   | <=34.77 | Pass    |      |
|       |       | 50  | 0     | 20.77 | -1.65 | 16.97   | <=34.77 | Pass    |      |
|       |       | 1   | 0     | 21.53 | -1.65 | 17.73   | <=34.77 | Pass    |      |
|       |       |     | 25    | 21.92 | -1.65 | 18.12   | <=34.77 | Pass    |      |
|       |       |     | 49    | 21.88 | -1.65 | 18.08   | <=34.77 | Pass    |      |
|       |       |     | 25    | 0     | 20.70 | -1.65   | 16.90   | <=34.77 | Pass |
|       | 13    |     |       | 20.82 | -1.65 | 17.02   | <=34.77 | Pass    |      |
|       | 25    |     |       | 20.91 | -1.65 | 17.11   | <=34.77 | Pass    |      |
|       | 50    | 0   | 20.82 | -1.65 | 17.02 | <=34.77 | Pass    |         |      |
|       | 711   | 1   | 0     | 21.69 | -1.65 | 17.89   | <=34.77 | Pass    |      |
|       |       |     | 25    | 22.00 | -1.65 | 18.20   | <=34.77 | Pass    |      |
|       |       |     | 49    | 22.11 | -1.65 | 18.31   | <=34.77 | Pass    |      |
|       |       | 25  | 0     | 20.86 | -1.65 | 17.06   | <=34.77 | Pass    |      |
|       |       |     | 13    | 20.95 | -1.65 | 17.15   | <=34.77 | Pass    |      |
|       |       |     | 25    | 20.96 | -1.65 | 17.16   | <=34.77 | Pass    |      |
|       |       | 50  | 0     | 20.93 | -1.65 | 17.13   | <=34.77 | Pass    |      |
|       |       | 704 | 1     | 0     | 20.46 | -1.65   | 16.66   | <=34.77 | Pass |
|       |       |     |       | 25    | 20.84 | -1.65   | 17.04   | <=34.77 | Pass |
|       | 49    |     |       | 20.87 | -1.65 | 17.07   | <=34.77 | Pass    |      |
|       | 25    |     |       | 0     | 19.70 | -1.65   | 15.90   | <=34.77 | Pass |
|       |       |     |       | 13    | 19.76 | -1.65   | 15.96   | <=34.77 | Pass |
|       |       |     |       | 25    | 19.89 | -1.65   | 16.09   | <=34.77 | Pass |
|       | 50    |     | 0     | 19.76 | -1.65 | 15.96   | <=34.77 | Pass    |      |
|       | 707.5 |     | 1     | 0     | 20.74 | -1.65   | 16.94   | <=34.77 | Pass |
| 25    |       |     |       | 21.09 | -1.65 | 17.29   | <=34.77 | Pass    |      |
| 49    |       |     |       | 21.08 | -1.65 | 17.28   | <=34.77 | Pass    |      |
| 25    |       |     | 0     | 19.67 | -1.65 | 15.87   | <=34.77 | Pass    |      |
|       |       |     | 13    | 19.81 | -1.65 | 16.01   | <=34.77 | Pass    |      |
|       |       |     | 25    | 19.89 | -1.65 | 16.09   | <=34.77 | Pass    |      |
| 50    | 0     |     | 19.76 | -1.65 | 15.96 | <=34.77 | Pass    |         |      |
| 711   | 1     |     | 0     | 21.19 | -1.65 | 17.39   | <=34.77 | Pass    |      |
|       |       |     | 25    | 21.49 | -1.65 | 17.69   | <=34.77 | Pass    |      |
|       |       |     | 49    | 21.38 | -1.65 | 17.58   | <=34.77 | Pass    |      |
|       | 25    |     | 0     | 19.89 | -1.65 | 16.09   | <=34.77 | Pass    |      |
|       |       | 13  | 19.95 | -1.65 | 16.15 | <=34.77 | Pass    |         |      |
|       |       | 25  | 19.97 | -1.65 | 16.17 | <=34.77 | Pass    |         |      |
|       | 50    | 0   | 19.89 | -1.65 | 16.09 | <=34.77 | Pass    |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 B12\_1.4MHz

#### 2.1.1 Test Result

| 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          | -2.131           | -0.0030               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            |               |                  | -0.0088               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            |               |                  | -0.0085               | -2.5 to 2.5 | Pass    |

|       |       |        |         |         |             |         |             |             |        |         |             |      |
|-------|-------|--------|---------|---------|-------------|---------|-------------|-------------|--------|---------|-------------|------|
|       |       |        |         | -30     | 3.85        | -6.595  | -0.0094     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -20     | 3.85        | -6.709  | -0.0096     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -10     | 3.85        | -3.204  | -0.0046     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 0       | 3.85        | -7.567  | -0.0108     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 10      | 3.85        | -8.025  | -0.0115     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 30      | 3.85        | -4.249  | -0.0061     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 40      | 3.85        | -7.153  | -0.0102     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 50    | 3.85   | -6.752  | -0.0096 | -2.5 to 2.5 | Pass    |             |             |        |         |             |      |
|       | 707.5 | 6      | 0       | 20      | 3.27        | -2.546  | -0.0036     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         |         | 3.85        | -7.396  | -0.0105     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         |         | 4.43        | -4.807  | -0.0068     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -30     | 3.85        | -6.566  | -0.0093     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -20     | 3.85        | -9.298  | -0.0131     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -10     | 3.85        | -6.037  | -0.0085     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 0       | 3.85        | -6.595  | -0.0093     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 10      | 3.85        | -5.193  | -0.0073     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 30      | 3.85        | -6.151  | -0.0087     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 40      | 3.85        | -8.326  | -0.0118     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 50      | 3.85        | -4.649  | -0.0066     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 715.3   | 6           | 0       | 20          | 3.27        | -6.208 | -0.0087 | -2.5 to 2.5 | Pass |
|       |       |        |         |         |             |         |             | 3.85        | -6.838 | -0.0096 | -2.5 to 2.5 | Pass |
|       |       |        |         |         |             |         |             | 4.43        | -1.731 | -0.0024 | -2.5 to 2.5 | Pass |
|       | -30   | 3.85   | -4.764  |         |             |         | -0.0067     | -2.5 to 2.5 | Pass   |         |             |      |
|       | -20   | 3.85   | -6.781  |         |             |         | -0.0095     | -2.5 to 2.5 | Pass   |         |             |      |
|       | -10   | 3.85   | -8.025  |         |             |         | -0.0112     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 0     | 3.85   | -1.817  |         |             |         | -0.0025     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 10    | 3.85   | -7.768  |         |             |         | -0.0109     | -2.5 to 2.5 | Pass   |         |             |      |
| 30    | 3.85  | -7.625 | -0.0107 |         |             |         | -2.5 to 2.5 | Pass        |        |         |             |      |
| 40    | 3.85  | -6.394 | -0.0089 |         |             |         | -2.5 to 2.5 | Pass        |        |         |             |      |
| 50    | 3.85  | -6.294 | -0.0088 |         |             |         | -2.5 to 2.5 | Pass        |        |         |             |      |
| 16QAM | 699.7 | 6      | 0       | 20      | 3.27        | -5.307  | -0.0076     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         |         | 3.85        | -3.819  | -0.0055     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         |         | 4.43        | -8.941  | -0.0128     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -30     | 3.85        | -6.022  | -0.0086     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -20     | 3.85        | -7.410  | -0.0106     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -10     | 3.85        | -4.592  | -0.0066     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 0       | 3.85        | -8.855  | -0.0127     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 10      | 3.85        | -6.166  | -0.0088     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 30      | 3.85        | -8.740  | -0.0125     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 40      | 3.85        | -6.495  | -0.0093     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 50      | 3.85        | -9.456  | -0.0135     | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | 707.5   | 6           | 0       | 20          | 3.27        | -4.549 | -0.0064 | -2.5 to 2.5 | Pass |
|       |       |        |         |         |             |         |             | 3.85        | -8.197 | -0.0116 | -2.5 to 2.5 | Pass |
|       |       |        |         |         |             |         |             | 4.43        | -6.523 | -0.0092 | -2.5 to 2.5 | Pass |
|       | -30   | 3.85   | -8.440  |         |             |         | -0.0119     | -2.5 to 2.5 | Pass   |         |             |      |
|       | -20   | 3.85   | -3.948  |         |             |         | -0.0056     | -2.5 to 2.5 | Pass   |         |             |      |
|       | -10   | 3.85   | -8.440  |         |             |         | -0.0119     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 0     | 3.85   | -7.968  |         |             |         | -0.0113     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 10    | 3.85   | -7.238  |         |             |         | -0.0102     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 30    | 3.85   | -7.038  |         |             |         | -0.0099     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 40    | 3.85   | -10.242 |         |             |         | -0.0145     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 50    | 3.85   | -9.041  |         |             |         | -0.0128     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 715.3 | 6      | 0       |         |             |         | 20          | 3.27        | -0.057 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |        |         |         |             |         |             | 3.85        | -7.725 | -0.0108 | -2.5 to 2.5 | Pass |
|       |       |        |         | 4.43    | -5.894      | -0.0082 |             | -2.5 to 2.5 | Pass   |         |             |      |
|       |       |        |         | -30     | 3.85        | -7.238  | -0.0101     | -2.5 to 2.5 | Pass   |         |             |      |
|       | -20   | 3.85   | -5.064  | -0.0071 | -2.5 to 2.5 | Pass    |             |             |        |         |             |      |

|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  | -10 | 3.85 | -8.869 | -0.0124 | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.85 | -5.293 | -0.0074 | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.85 | -7.038 | -0.0098 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.85 | -5.236 | -0.0073 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.85 | -3.533 | -0.0049 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.85 | -1.659 | -0.0023 | -2.5 to 2.5 | Pass |

## 2.2 B12\_3MHz

### 2.2.1 Test Result

| 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          | -3.633           | -0.0052               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |             | 3.85          | -5.522           | -0.0079               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |             | 4.43          | -5.050           | -0.0072               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -30         | 3.85          | -4.721           | -0.0067               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -20         | 3.85          | -6.809           | -0.0097               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -10         | 3.85          | -6.967           | -0.0099               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 0           | 3.85          | -6.609           | -0.0094               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 10          | 3.85          | -9.184           | -0.0131               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 30          | 3.85          | -7.095           | -0.0101               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 40          | 3.85          | -7.267           | -0.0104               | -2.5 to 2.5 | Pass    |
|                            | 50              | 3.85          | -6.280  | -0.0090     | -2.5 to 2.5   | Pass             |                       |             |         |
|                            | 707.5           | 15            | 0       | 20          | 3.27          | -2.146           | -0.0030               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |             | 3.85          | -8.769           | -0.0124               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |             | 4.43          | -4.635           | -0.0066               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -30         | 3.85          | -6.180           | -0.0087               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -20         | 3.85          | -8.612           | -0.0122               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -10         | 3.85          | -3.920           | -0.0055               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 0           | 3.85          | -8.669           | -0.0123               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 10          | 3.85          | -6.351           | -0.0090               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 30          | 3.85          | -7.968           | -0.0113               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 40          | 3.85          | -5.364           | -0.0076               | -2.5 to 2.5 | Pass    |
|                            | 50              | 3.85          | -6.008  | -0.0085     | -2.5 to 2.5   | Pass             |                       |             |         |
|                            | 714.5           | 15            | 0       | 20          | 3.27          | -9.942           | -0.0139               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |             | 3.85          | -7.267           | -0.0102               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |             | 4.43          | -8.798           | -0.0123               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -30         | 3.85          | -4.506           | -0.0063               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -20         | 3.85          | -8.197           | -0.0115               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -10         | 3.85          | -6.237           | -0.0087               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 0           | 3.85          | -8.297           | -0.0116               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 10          | 3.85          | -6.809           | -0.0095               | -2.5 to 2.5 | Pass    |
| 30                         |                 |               |         | 3.85        | -7.610        | -0.0107          | -2.5 to 2.5           | Pass        |         |
| 40                         |                 |               |         | 3.85        | -5.322        | -0.0074          | -2.5 to 2.5           | Pass        |         |
| 50                         | 3.85            | -8.740        | -0.0122 | -2.5 to 2.5 | Pass          |                  |                       |             |         |
| 16QAM                      | 700.5           | 15            | 0       | 20          | 3.27          | -6.824           | -0.0097               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |             | 3.85          | -3.176           | -0.0045               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |             | 4.43          | -6.423           | -0.0092               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -30         | 3.85          | -3.691           | -0.0053               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -20         | 3.85          | -9.141           | -0.0130               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -10         | 3.85          | -10.386          | -0.0148               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 0           | 3.85          | -8.626           | -0.0123               | -2.5 to 2.5 | Pass    |
| 10                         | 3.85            | -6.795        | -0.0097 | -2.5 to 2.5 | Pass          |                  |                       |             |         |

|    |       |      |        |         |             |         |             |             |      |
|----|-------|------|--------|---------|-------------|---------|-------------|-------------|------|
|    | 707.5 | 15   | 0      | 30      | 3.85        | -5.565  | -0.0079     | -2.5 to 2.5 | Pass |
|    |       |      |        | 40      | 3.85        | -10.457 | -0.0149     | -2.5 to 2.5 | Pass |
|    |       |      |        | 50      | 3.85        | -4.864  | -0.0069     | -2.5 to 2.5 | Pass |
|    |       |      |        | 20      | 3.27        | -6.094  | -0.0086     | -2.5 to 2.5 | Pass |
|    |       |      |        |         | 3.85        | -6.881  | -0.0097     | -2.5 to 2.5 | Pass |
|    |       |      |        |         | 4.43        | -8.268  | -0.0117     | -2.5 to 2.5 | Pass |
|    |       |      |        | -30     | 3.85        | -4.892  | -0.0069     | -2.5 to 2.5 | Pass |
|    |       |      |        | -20     | 3.85        | -8.912  | -0.0126     | -2.5 to 2.5 | Pass |
|    |       |      |        | -10     | 3.85        | -9.170  | -0.0130     | -2.5 to 2.5 | Pass |
|    |       |      |        | 0       | 3.85        | -1.988  | -0.0028     | -2.5 to 2.5 | Pass |
|    |       |      |        | 10      | 3.85        | -0.587  | -0.0008     | -2.5 to 2.5 | Pass |
|    |       |      |        | 30      | 3.85        | -2.475  | -0.0035     | -2.5 to 2.5 | Pass |
|    | 40    | 3.85 | -9.341 | -0.0132 | -2.5 to 2.5 | Pass    |             |             |      |
|    | 50    | 3.85 | -7.811 | -0.0110 | -2.5 to 2.5 | Pass    |             |             |      |
|    | 714.5 | 15   | 0      | 20      | 3.27        | -9.813  | -0.0137     | -2.5 to 2.5 | Pass |
|    |       |      |        |         | 3.85        | -8.726  | -0.0122     | -2.5 to 2.5 | Pass |
|    |       |      |        |         | 4.43        | -3.562  | -0.0050     | -2.5 to 2.5 | Pass |
|    |       |      |        | -30     | 3.85        | -4.935  | -0.0069     | -2.5 to 2.5 | Pass |
|    |       |      |        | -20     | 3.85        | -4.678  | -0.0065     | -2.5 to 2.5 | Pass |
|    |       |      |        | -10     | 3.85        | -3.433  | -0.0048     | -2.5 to 2.5 | Pass |
|    |       |      |        | 0       | 3.85        | -8.655  | -0.0121     | -2.5 to 2.5 | Pass |
|    |       |      |        | 10      | 3.85        | -8.254  | -0.0116     | -2.5 to 2.5 | Pass |
|    |       |      |        | 30      | 3.85        | -5.593  | -0.0078     | -2.5 to 2.5 | Pass |
|    |       |      |        | 40      | 3.85        | -4.706  | -0.0066     | -2.5 to 2.5 | Pass |
| 50 |       |      |        | 3.85    | -11.559     | -0.0162 | -2.5 to 2.5 | Pass        |      |

## 2.3 B12\_5MHz

### 2.3.1 Test Result

| 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          | -7.911           | -0.0113               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |            | 3.85          | -5.507           | -0.0079               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |            | 4.43          | -7.195           | -0.0103               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -30        | 3.85          | -4.535           | -0.0065               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -20        | 3.85          | -7.997           | -0.0114               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -10        | 3.85          | -7.725           | -0.0110               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 0          | 3.85          | -4.392           | -0.0063               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 10         | 3.85          | -3.419           | -0.0049               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 30         | 3.85          | -5.693           | -0.0081               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 40         | 3.85          | -7.052           | -0.0101               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 50         | 3.85          | -4.935           | -0.0070               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 707.5      | 25            | 0                | 20                    | 3.27        | -3.605  |
|                            | 3.85            | -6.623        | -0.0094 |            |               |                  |                       | -2.5 to 2.5 | Pass    |
|                            | 4.43            | -3.262        | -0.0046 |            |               |                  |                       | -2.5 to 2.5 | Pass    |
|                            | -30             | 3.85          | -6.437  |            |               |                  | -0.0091               | -2.5 to 2.5 | Pass    |
|                            | -20             | 3.85          | -3.991  |            |               |                  | -0.0056               | -2.5 to 2.5 | Pass    |
|                            | -10             | 3.85          | -5.107  |            |               |                  | -0.0072               | -2.5 to 2.5 | Pass    |
|                            | 0               | 3.85          | -5.507  |            |               |                  | -0.0078               | -2.5 to 2.5 | Pass    |
|                            | 10              | 3.85          | -3.762  |            |               |                  | -0.0053               | -2.5 to 2.5 | Pass    |
|                            | 30              | 3.85          | -6.695  |            |               |                  | -0.0095               | -2.5 to 2.5 | Pass    |
|                            | 40              | 3.85          | -6.151  |            |               |                  | -0.0087               | -2.5 to 2.5 | Pass    |
|                            | 50              | 3.85          | -5.422  |            |               |                  | -0.0077               | -2.5 to 2.5 | Pass    |

|       |       |        |         |         |             |             |             |             |             |
|-------|-------|--------|---------|---------|-------------|-------------|-------------|-------------|-------------|
|       | 713.5 | 25     | 0       | 20      | 3.27        | -8.140      | -0.0114     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 3.85        | -6.824      | -0.0096     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 4.43        | -6.251      | -0.0088     | -2.5 to 2.5 | Pass        |
|       |       |        |         | -30     | 3.85        | -5.250      | -0.0074     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | -20         | 3.85        | -6.723      | -0.0094     | -2.5 to 2.5 |
|       |       |        |         | -10     | 3.85        | -9.112      | -0.0128     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 0           | 3.85        | -4.992      | -0.0070     | -2.5 to 2.5 |
|       |       |        |         | 10      | 3.85        | -7.081      | -0.0099     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 30          | 3.85        | -10.157     | -0.0142     | -2.5 to 2.5 |
|       |       |        |         | 40      | 3.85        | -6.881      | -0.0096     | -2.5 to 2.5 | Pass        |
| 50    | 3.85  | -8.497 | -0.0119 |         | -2.5 to 2.5 | Pass        |             |             |             |
| 16QAM | 701.5 | 25     | 0       | 20      | 3.27        | -4.821      | -0.0069     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 3.85        | -7.424      | -0.0106     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 4.43        | -7.510      | -0.0107     | -2.5 to 2.5 | Pass        |
|       |       |        |         | -30     | 3.85        | -4.992      | -0.0071     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | -20         | 3.85        | -9.642      | -0.0137     | -2.5 to 2.5 |
|       |       |        |         | -10     | 3.85        | -7.424      | -0.0106     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 0           | 3.85        | -9.513      | -0.0136     | -2.5 to 2.5 |
|       |       |        |         | 10      | 3.85        | -7.768      | -0.0111     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 30          | 3.85        | -7.553      | -0.0108     | -2.5 to 2.5 |
|       |       |        |         | 40      | 3.85        | -8.526      | -0.0122     | -2.5 to 2.5 | Pass        |
|       | 50    | 3.85   | -7.539  |         | -0.0107     | -2.5 to 2.5 | Pass        |             |             |
|       | 707.5 | 25     | 0       | 20      | 3.27        | -5.736      | -0.0081     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 3.85        | -1.116      | -0.0016     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 4.43        | -4.048      | -0.0057     | -2.5 to 2.5 | Pass        |
|       |       |        |         | -30     | 3.85        | -5.493      | -0.0078     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | -20         | 3.85        | -4.163      | -0.0059     | -2.5 to 2.5 |
|       |       |        |         | -10     | 3.85        | -4.363      | -0.0062     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 0           | 3.85        | -2.275      | -0.0032     | -2.5 to 2.5 |
|       |       |        |         | 10      | 3.85        | -7.653      | -0.0108     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 30          | 3.85        | -1.659      | -0.0023     | -2.5 to 2.5 |
|       |       |        |         | 40      | 3.85        | -4.892      | -0.0069     | -2.5 to 2.5 | Pass        |
|       | 50    | 3.85   | -5.994  |         | -0.0085     | -2.5 to 2.5 | Pass        |             |             |
|       | 713.5 | 25     | 0       | 20      | 3.27        | -4.034      | -0.0057     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 3.85        | -7.696      | -0.0108     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | 4.43        | -5.279      | -0.0074     | -2.5 to 2.5 | Pass        |
|       |       |        |         | -30     | 3.85        | -7.195      | -0.0101     | -2.5 to 2.5 | Pass        |
|       |       |        |         |         | -20         | 3.85        | -10.099     | -0.0142     | -2.5 to 2.5 |
|       |       |        |         | -10     | 3.85        | -5.536      | -0.0078     | -2.5 to 2.5 | Pass        |
| 0     |       |        |         |         | 3.85        | -5.507      | -0.0077     | -2.5 to 2.5 | Pass        |
| 10    |       |        |         | 3.85    | -7.524      | -0.0105     | -2.5 to 2.5 | Pass        |             |
|       |       |        |         | 30      | 3.85        | -3.633      | -0.0051     | -2.5 to 2.5 | Pass        |
| 40    |       |        |         | 3.85    | -3.219      | -0.0045     | -2.5 to 2.5 | Pass        |             |
|       | 50    | 3.85   | -8.283  | -0.0116 | -2.5 to 2.5 | Pass        |             |             |             |

## 2.4 B12\_10MHz

### 2.4.1 Test Result

| 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          | -6.623           | -0.0094               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -4.292           | -0.0061               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -3.648           | -0.0052               | -2.5 to 2.5 | Pass    |



|       |       |         |         |         |             |         |             |             |        |
|-------|-------|---------|---------|---------|-------------|---------|-------------|-------------|--------|
|       |       |         |         | -30     | 3.85        | -4.320  | -0.0061     | -2.5 to 2.5 | Pass   |
|       |       |         |         | -20     | 3.85        | -6.766  | -0.0096     | -2.5 to 2.5 | Pass   |
|       |       |         |         | -10     | 3.85        | -4.606  | -0.0065     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 0       | 3.85        | -7.539  | -0.0107     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 10      | 3.85        | -5.107  | -0.0073     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 30      | 3.85        | -5.636  | -0.0080     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 40      | 3.85        | -9.713  | -0.0138     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 50      | 3.85        | -2.418  | -0.0034     | -2.5 to 2.5 | Pass   |
|       | 707.5 | 50      | 0       | 20      | 3.27        | -6.623  | -0.0094     | -2.5 to 2.5 | Pass   |
|       |       |         |         |         | 3.85        | -6.409  | -0.0091     | -2.5 to 2.5 | Pass   |
|       |       |         |         |         | 4.43        | -5.250  | -0.0074     | -2.5 to 2.5 | Pass   |
|       |       |         |         | -30     | 3.85        | -4.907  | -0.0069     | -2.5 to 2.5 | Pass   |
|       |       |         |         | -20     | 3.85        | -3.676  | -0.0052     | -2.5 to 2.5 | Pass   |
|       |       |         |         | -10     | 3.85        | -7.482  | -0.0106     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 0       | 3.85        | -5.965  | -0.0084     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 10      | 3.85        | -6.351  | -0.0090     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 30      | 3.85        | -7.710  | -0.0109     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 40      | 3.85        | -4.764  | -0.0067     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 50      | 3.85        | -7.467  | -0.0106     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 711     | 50          | 0       | 20          | 3.27        | -3.719 |
|       | 3.85  | -3.533  | -0.0050 |         |             |         |             | -2.5 to 2.5 | Pass   |
|       | 4.43  | -5.322  | -0.0075 |         |             |         |             | -2.5 to 2.5 | Pass   |
|       | -30   | 3.85    | -6.108  |         |             |         | -0.0086     | -2.5 to 2.5 | Pass   |
|       | -20   | 3.85    | -4.478  |         |             |         | -0.0063     | -2.5 to 2.5 | Pass   |
|       | -10   | 3.85    | -3.047  |         |             |         | -0.0043     | -2.5 to 2.5 | Pass   |
|       | 0     | 3.85    | -3.247  |         |             |         | -0.0046     | -2.5 to 2.5 | Pass   |
|       | 10    | 3.85    | -4.778  |         |             |         | -0.0067     | -2.5 to 2.5 | Pass   |
|       | 30    | 3.85    | -5.608  |         |             |         | -0.0079     | -2.5 to 2.5 | Pass   |
| 40    | 3.85  | -10.242 | -0.0144 |         |             |         | -2.5 to 2.5 | Pass        |        |
| 50    | 3.85  | -7.138  | -0.0100 |         |             |         | -2.5 to 2.5 | Pass        |        |
| 16QAM | 704   | 50      | 0       |         |             |         | 20          | 3.27        | -6.037 |
|       |       |         |         | 3.85    | -7.524      | -0.0107 |             | -2.5 to 2.5 | Pass   |
|       |       |         |         | 4.43    | -2.918      | -0.0041 |             | -2.5 to 2.5 | Pass   |
|       |       |         |         | -30     | 3.85        | -4.764  | -0.0068     | -2.5 to 2.5 | Pass   |
|       |       |         |         | -20     | 3.85        | -5.479  | -0.0078     | -2.5 to 2.5 | Pass   |
|       |       |         |         | -10     | 3.85        | -7.310  | -0.0104     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 0       | 3.85        | -5.293  | -0.0075     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 10      | 3.85        | -5.708  | -0.0081     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 30      | 3.85        | -6.652  | -0.0094     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 40      | 3.85        | -6.895  | -0.0098     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 50      | 3.85        | -5.150  | -0.0073     | -2.5 to 2.5 | Pass   |
|       |       |         |         | 707.5   | 50          | 0       | 20          | 3.27        | -5.794 |
|       | 3.85  | -6.938  | -0.0098 |         |             |         |             | -2.5 to 2.5 | Pass   |
|       | 4.43  | -5.636  | -0.0080 |         |             |         |             | -2.5 to 2.5 | Pass   |
|       | -30   | 3.85    | -6.280  |         |             |         | -0.0089     | -2.5 to 2.5 | Pass   |
|       | -20   | 3.85    | -5.522  |         |             |         | -0.0078     | -2.5 to 2.5 | Pass   |
|       | -10   | 3.85    | -6.480  |         |             |         | -0.0092     | -2.5 to 2.5 | Pass   |
|       | 0     | 3.85    | -5.851  |         |             |         | -0.0083     | -2.5 to 2.5 | Pass   |
|       | 10    | 3.85    | -6.137  |         |             |         | -0.0087     | -2.5 to 2.5 | Pass   |
|       | 30    | 3.85    | -3.233  |         |             |         | -0.0046     | -2.5 to 2.5 | Pass   |
|       | 40    | 3.85    | -5.479  |         |             |         | -0.0077     | -2.5 to 2.5 | Pass   |
|       | 50    | 3.85    | -5.364  |         |             |         | -0.0076     | -2.5 to 2.5 | Pass   |
|       | 711   | 50      | 0       |         |             |         | 20          | 3.27        | -4.706 |
|       |       |         |         | 3.85    | -5.207      | -0.0073 |             | -2.5 to 2.5 | Pass   |
|       |       |         |         | 4.43    | -6.909      | -0.0097 |             | -2.5 to 2.5 | Pass   |
|       |       |         |         | -30     | 3.85        | -5.221  | -0.0073     | -2.5 to 2.5 | Pass   |
|       | -20   | 3.85    | -7.668  | -0.0108 | -2.5 to 2.5 | Pass    |             |             |        |

|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  | -10 | 3.85 | -5.980 | -0.0084 | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.85 | -3.819 | -0.0054 | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.85 | -3.805 | -0.0054 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.85 | -2.661 | -0.0037 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.85 | -5.350 | -0.0075 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.85 | -8.440 | -0.0119 | -2.5 to 2.5 | Pass |

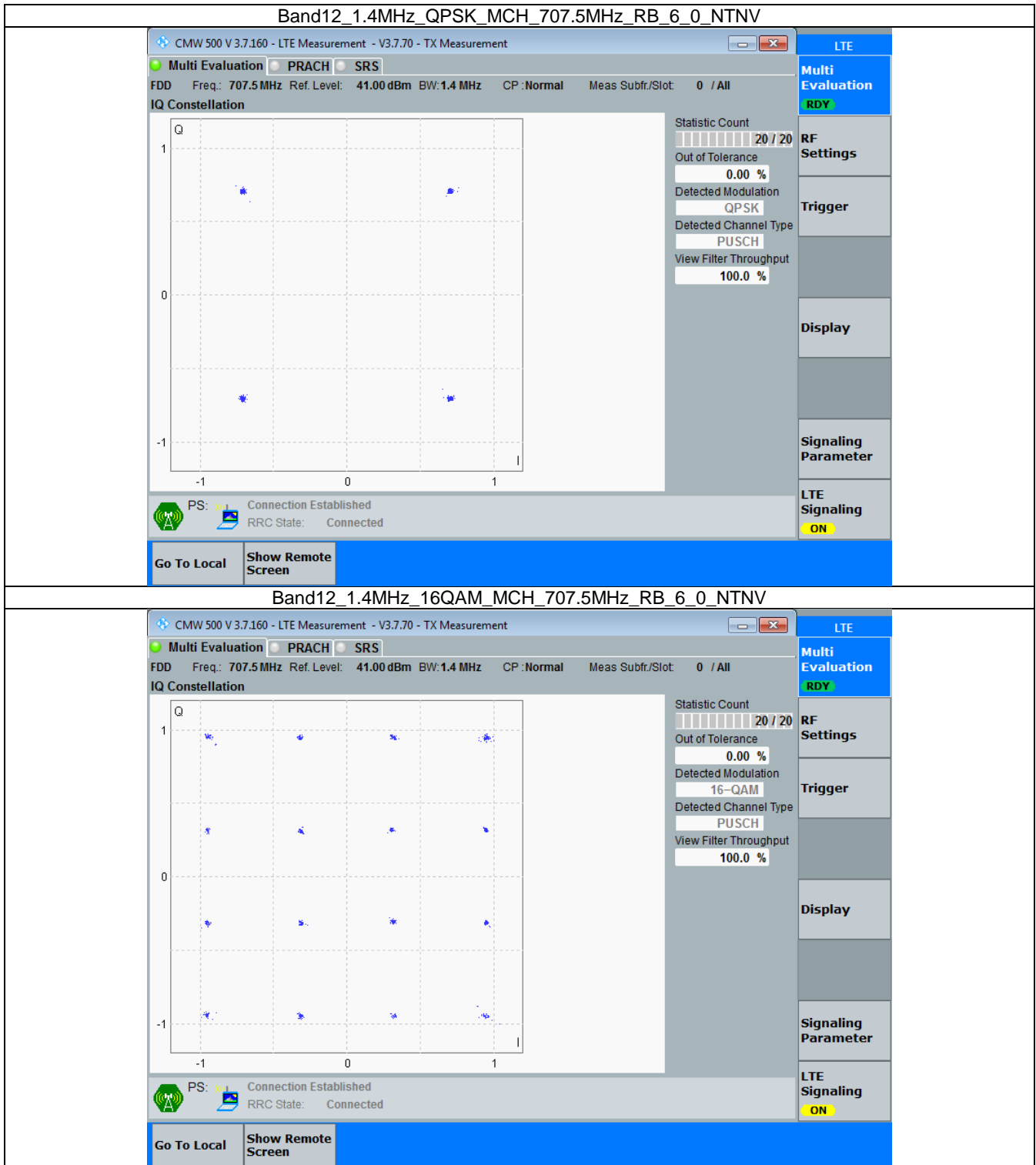
### 3. Modulation Characteristics

#### 3.1 B12\_1.4MHz

##### 3.1.1 Test Result

| Band: 12 / Bandwidth: 1.4MHz / NTN |                 |               |        |                            |       |         |
|------------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| 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 Test Graph

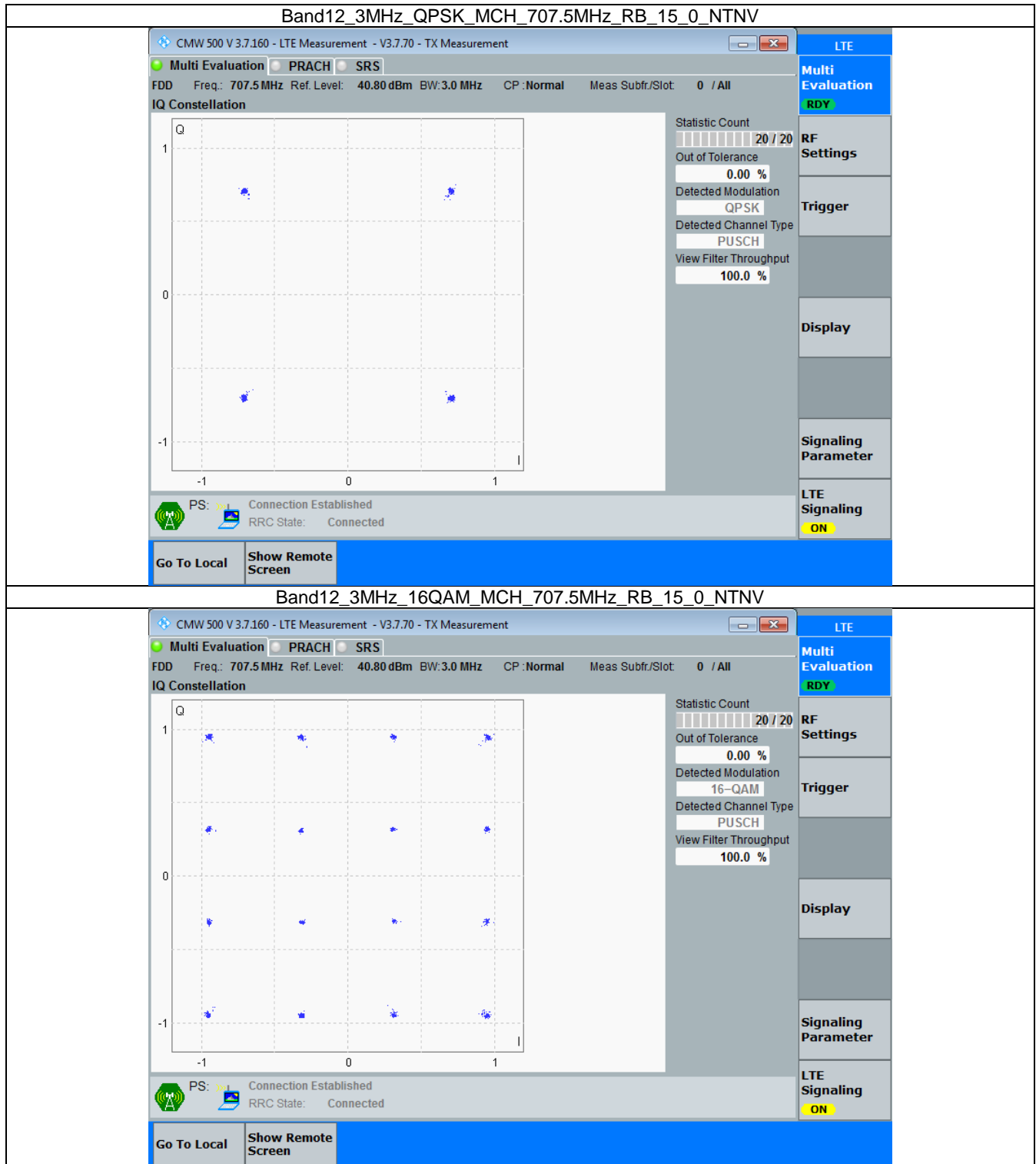


### 3.2 B12\_3MHz

#### 3.2.1 Test Result

| Band: 12 / Bandwidth: 3MHz / NTV |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| 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    |

### 3.2.2 Test Graph

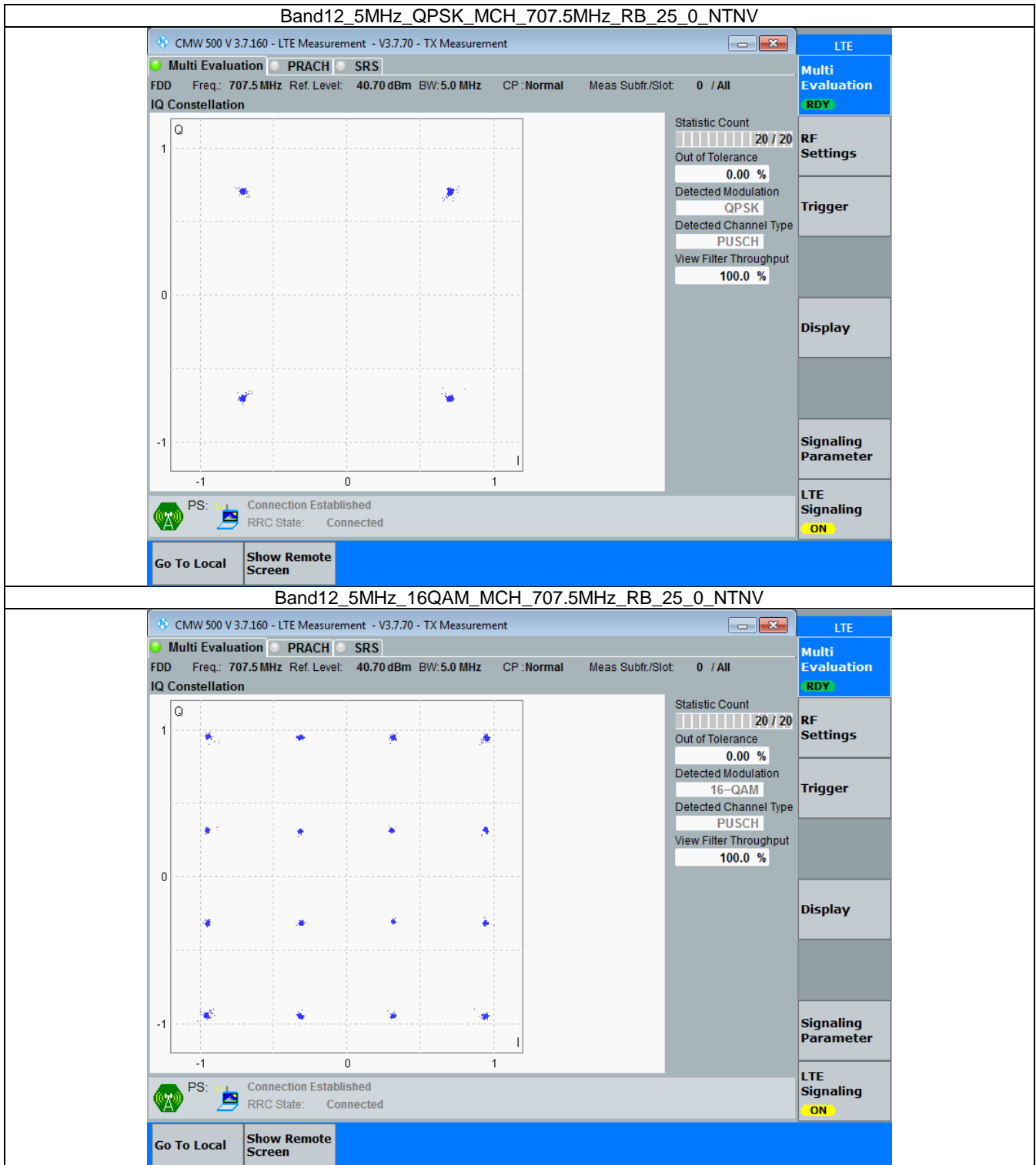


### 3.3 B12\_5MHz

#### 3.3.1 Test Result

| Band: 12 / Bandwidth: 5MHz / NTV |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| 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    |

### 3.3.2 Test Graph



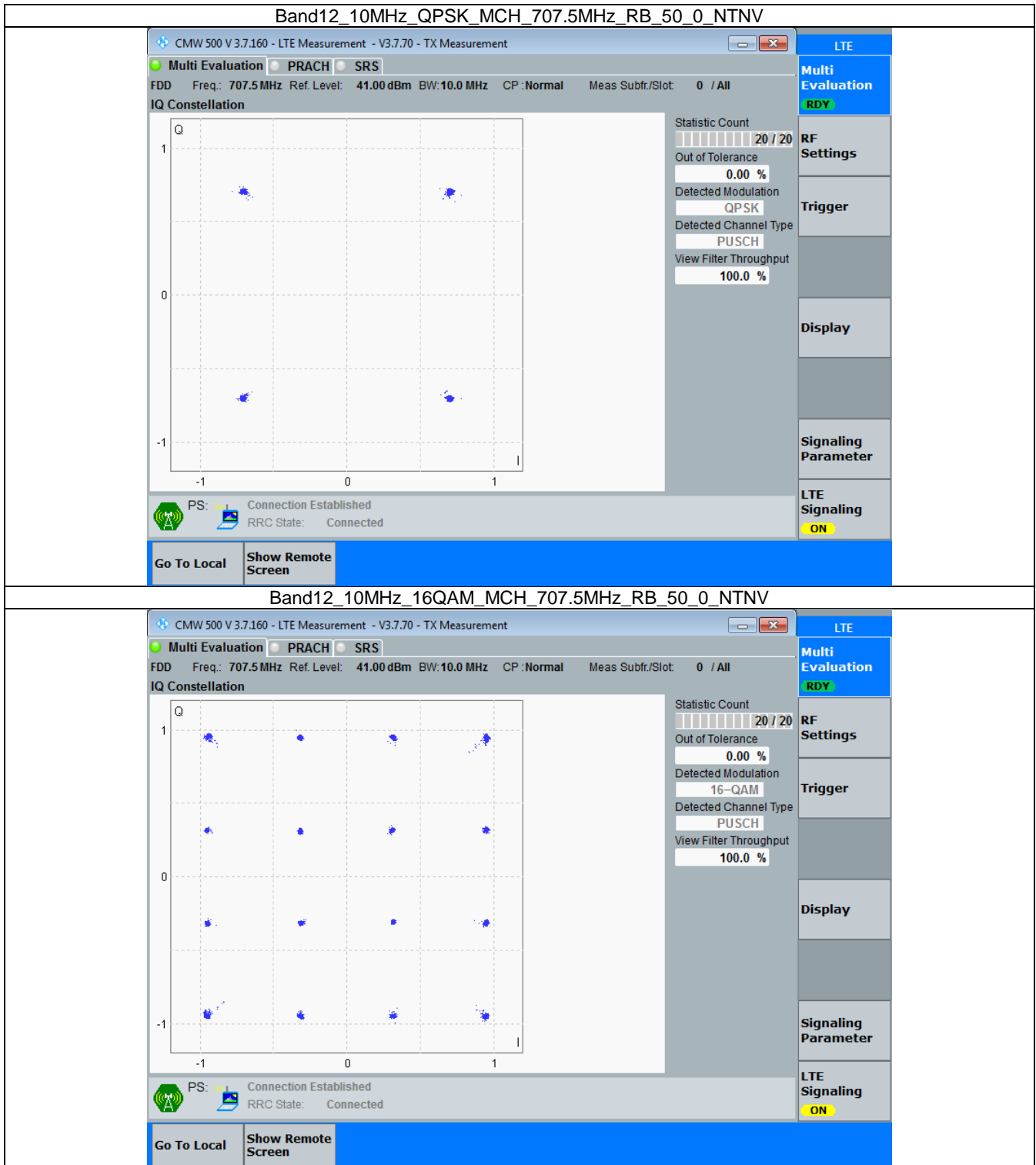
### 3.4 B12\_10MHz

#### 3.4.1 Test Result

| 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    |



### 3.4.2 Test Graph



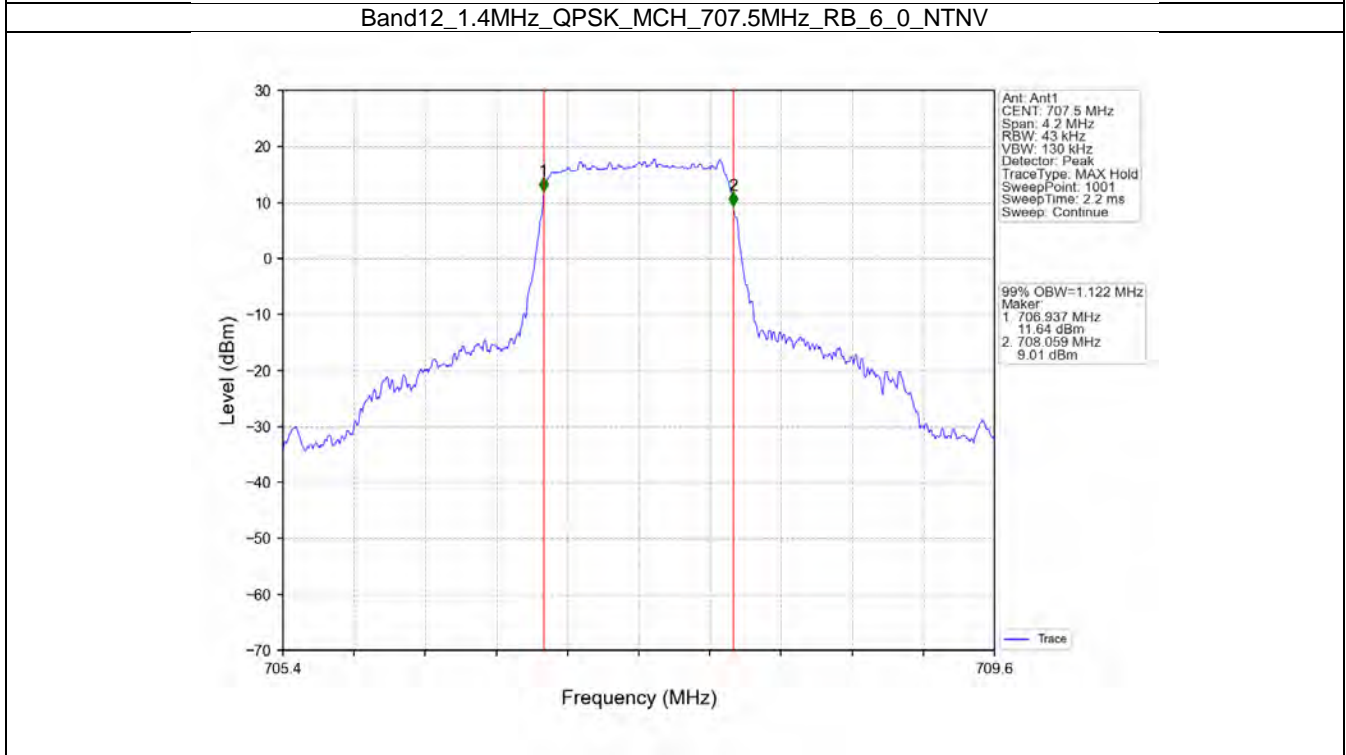
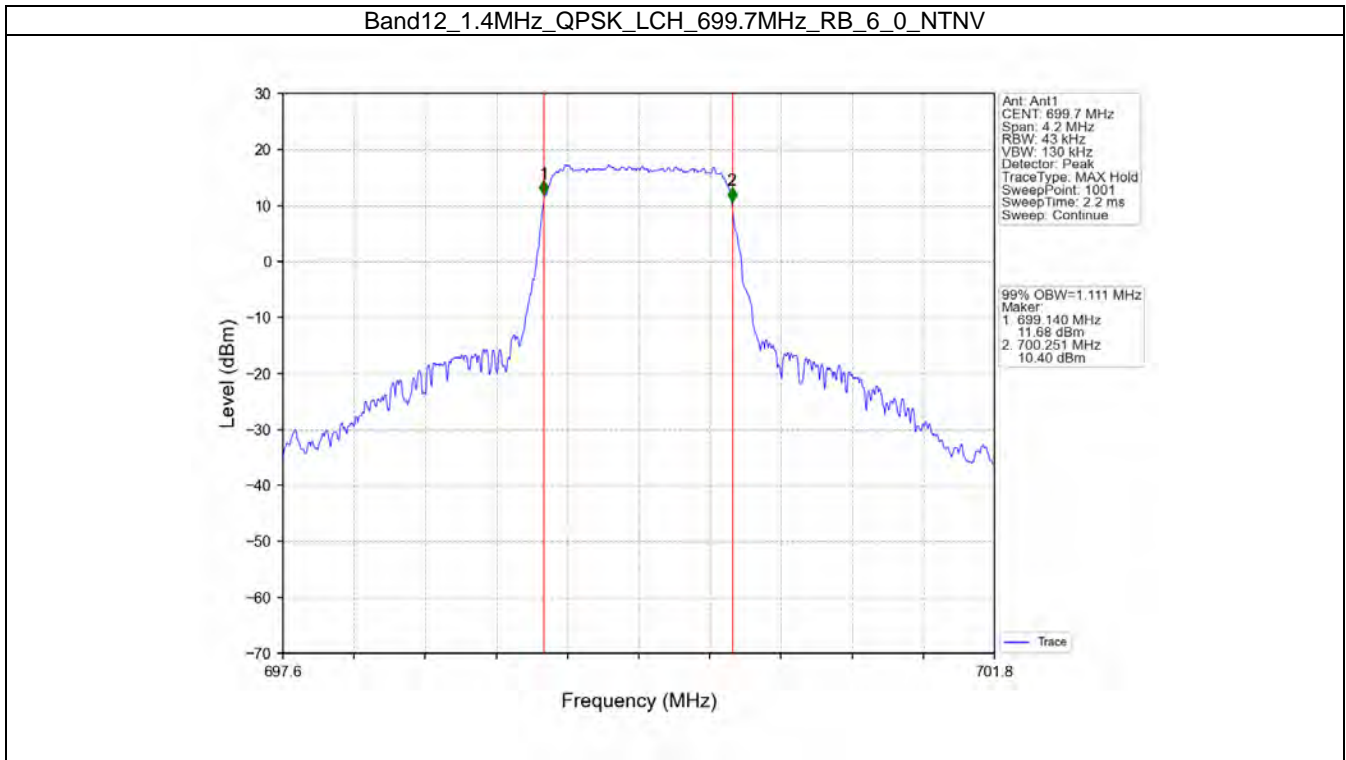
## 4. 99% & 26dB Bandwidth

### 4.1 Band12\_OBW

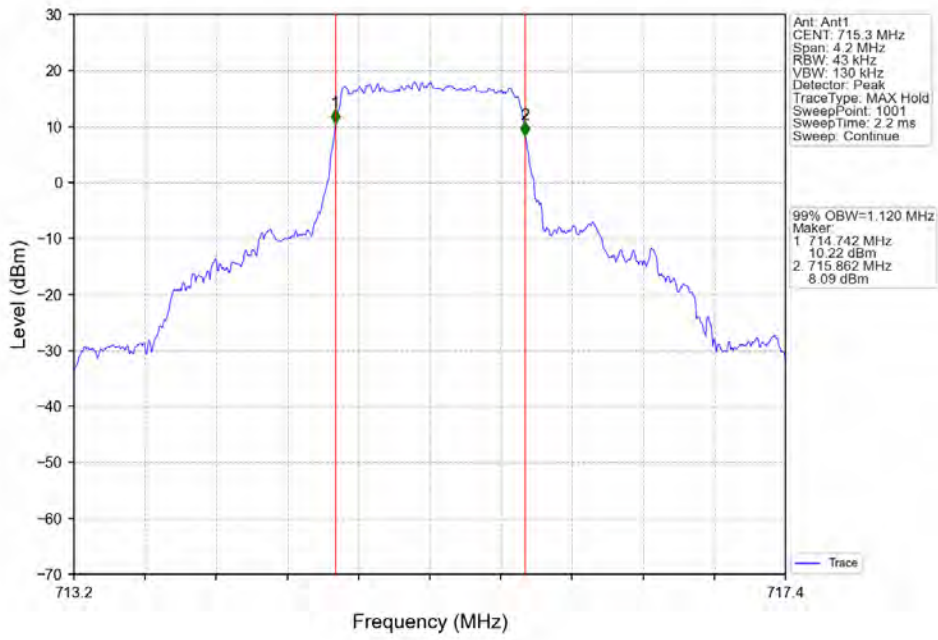
#### 4.1.1 Test Result

| 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      | 1.111                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.122                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.120                        | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.112                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.110                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.107                        | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.729                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.734                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.732                        | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 2.716                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.725                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.726                        | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 4.579                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.555                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.612                        | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 4.582                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.585                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.573                        | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 9.193                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.027                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.061                        | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 9.137                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.016                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.047                        | /     | Pass    |

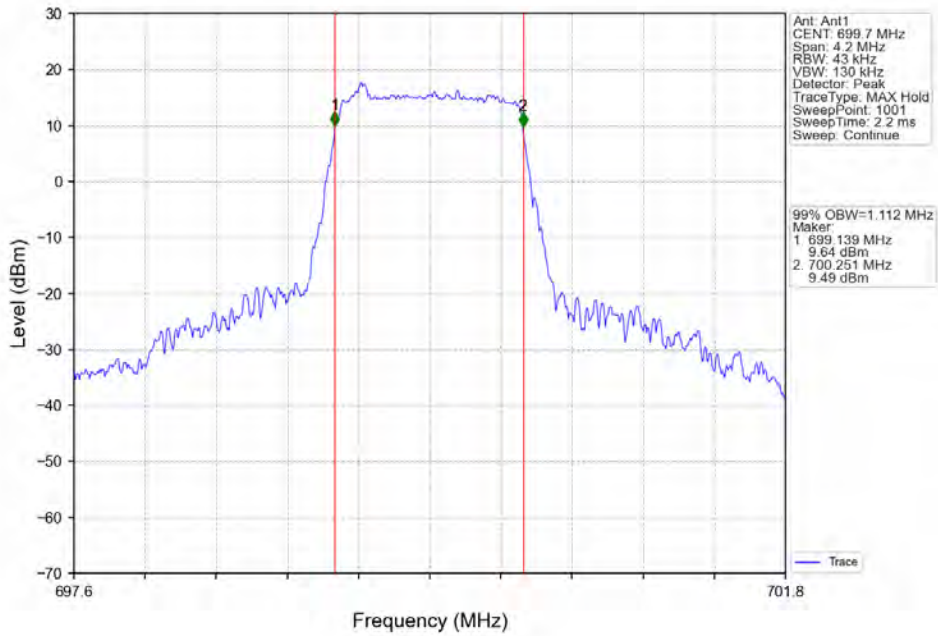
### 4.1.2 Test Graph



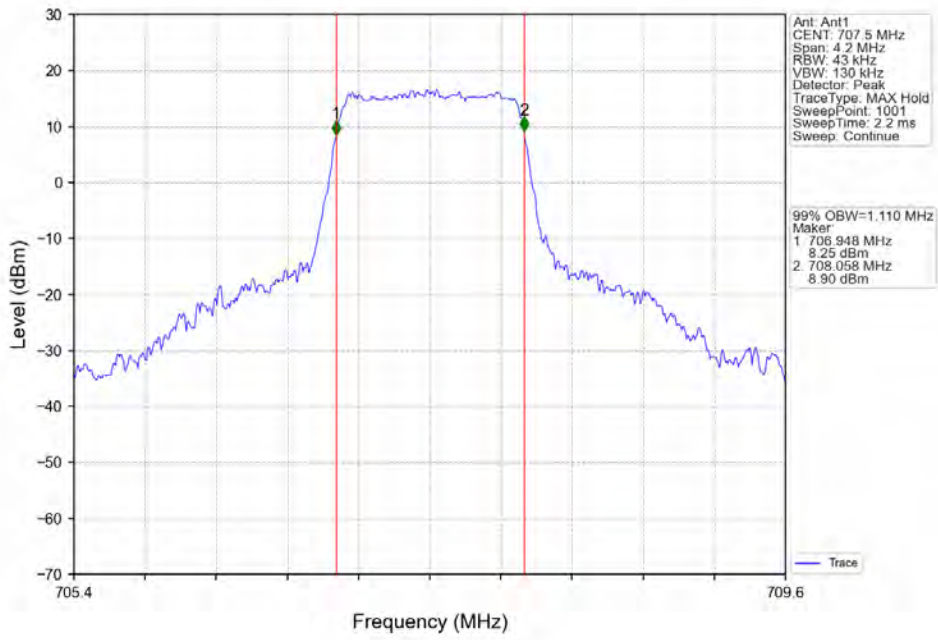
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



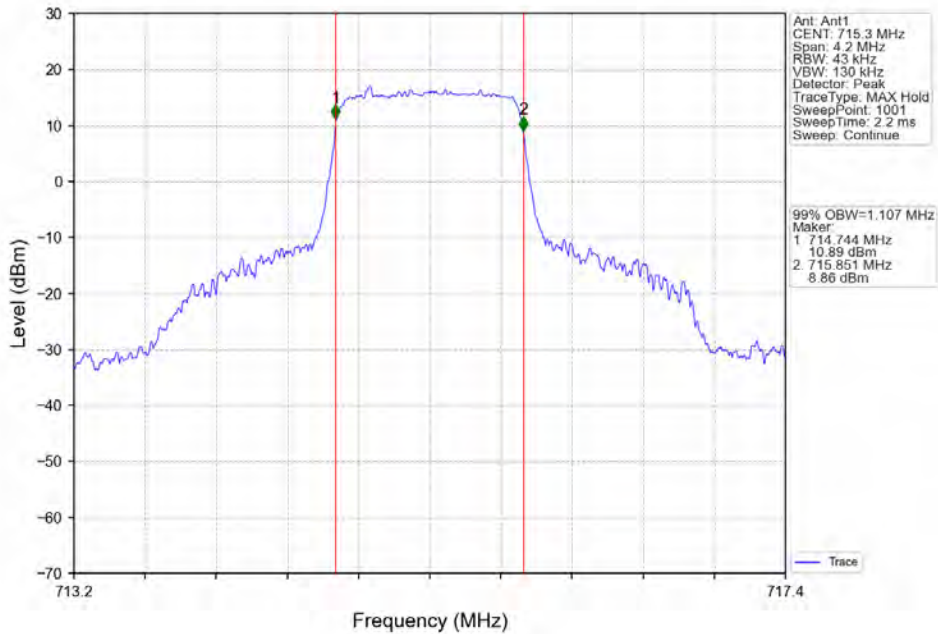
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



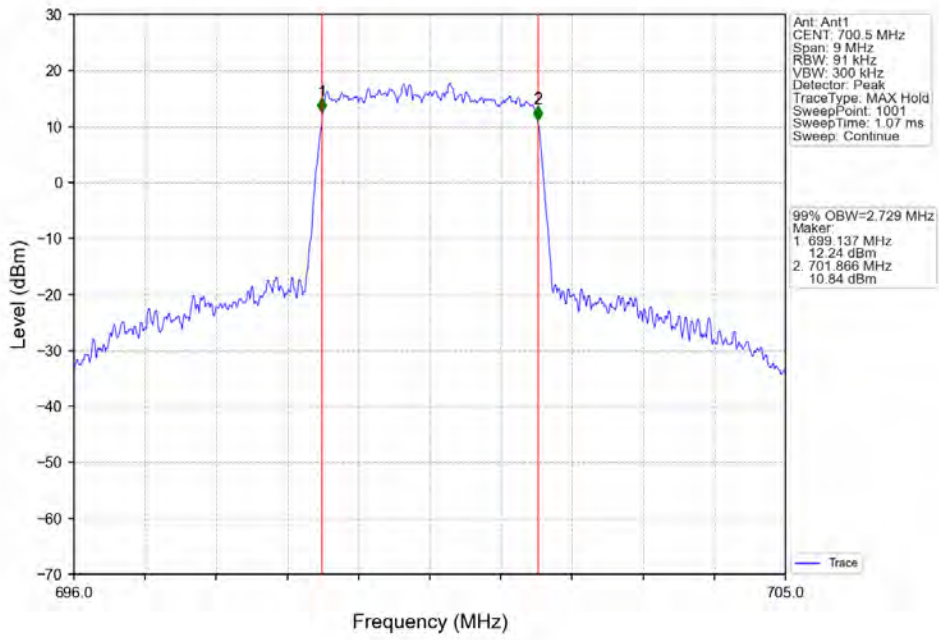
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



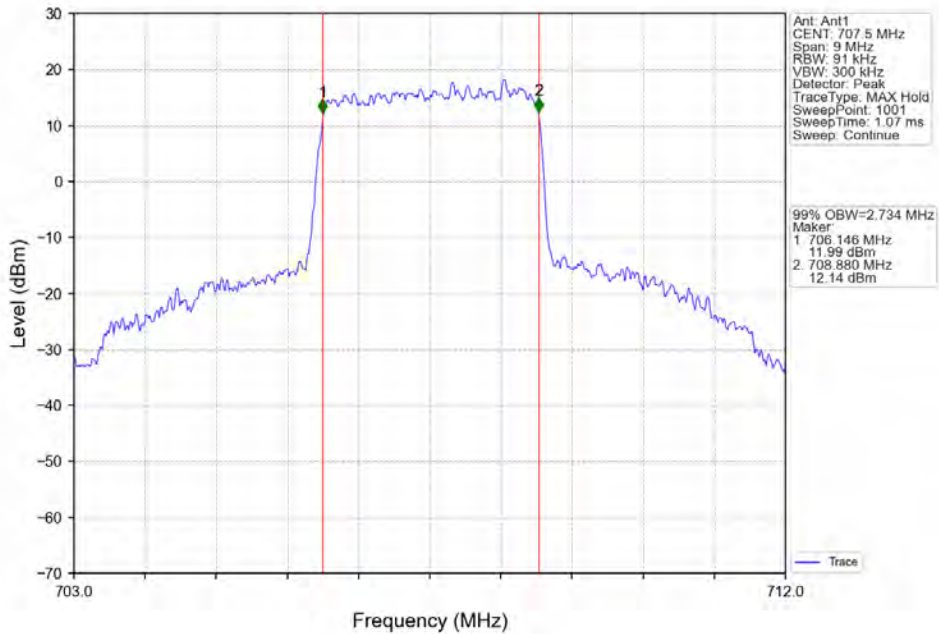
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



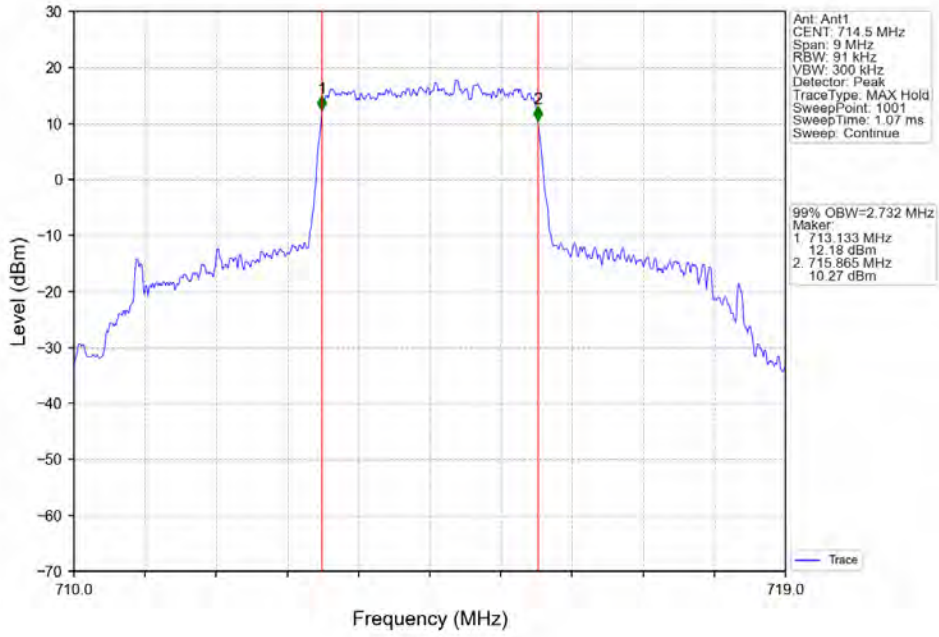
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



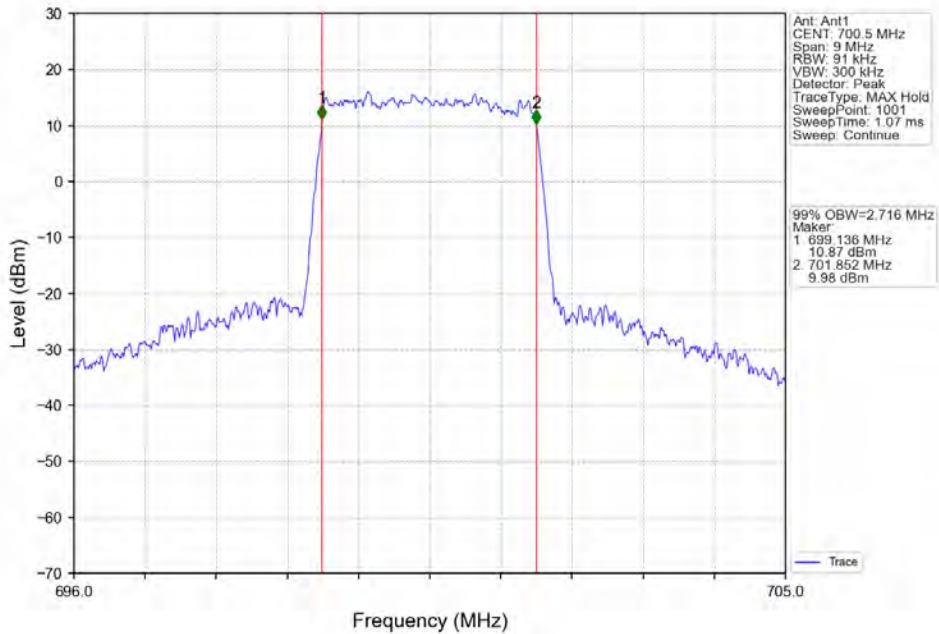
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



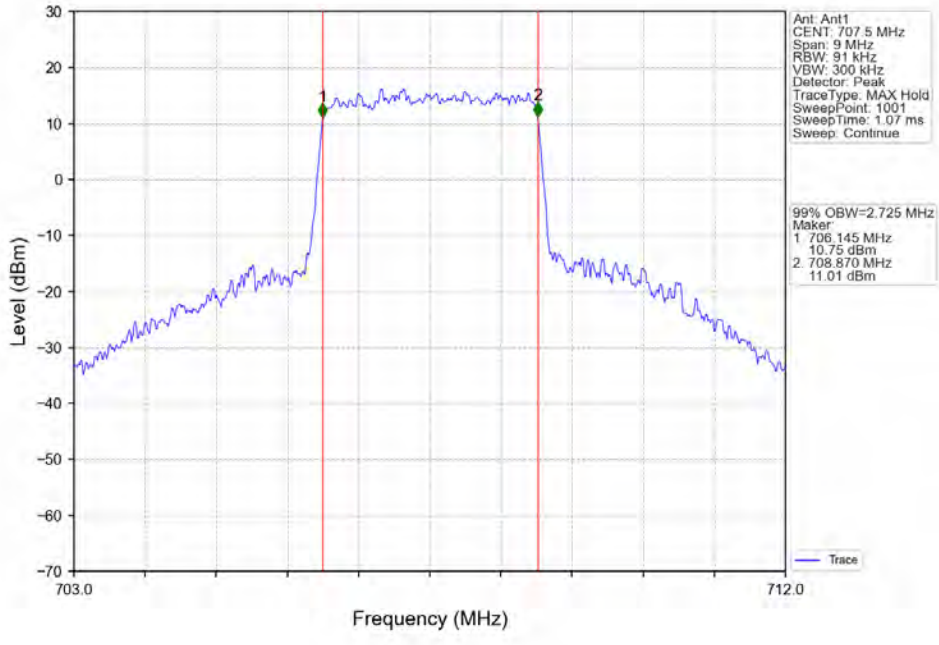
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



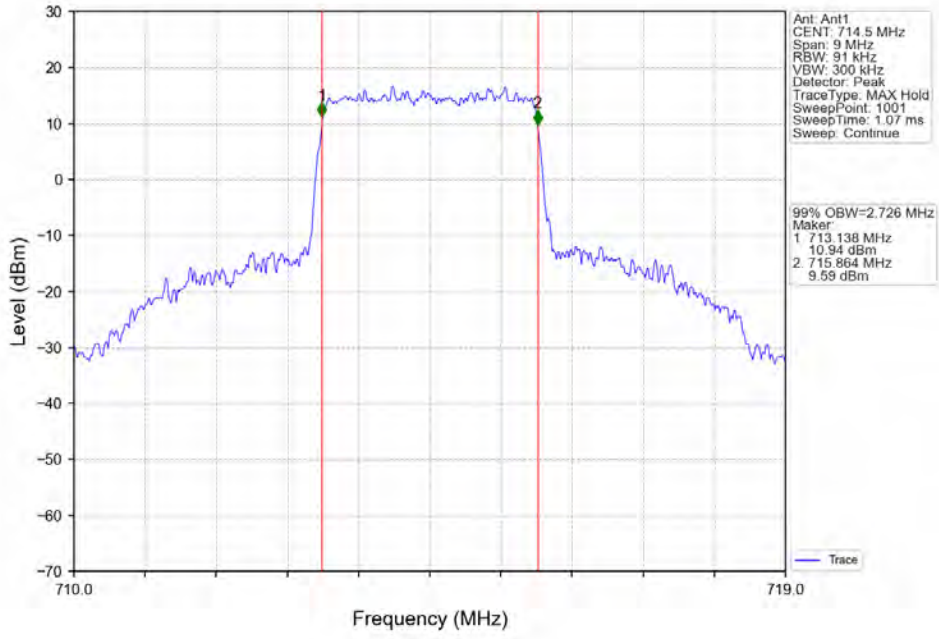
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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

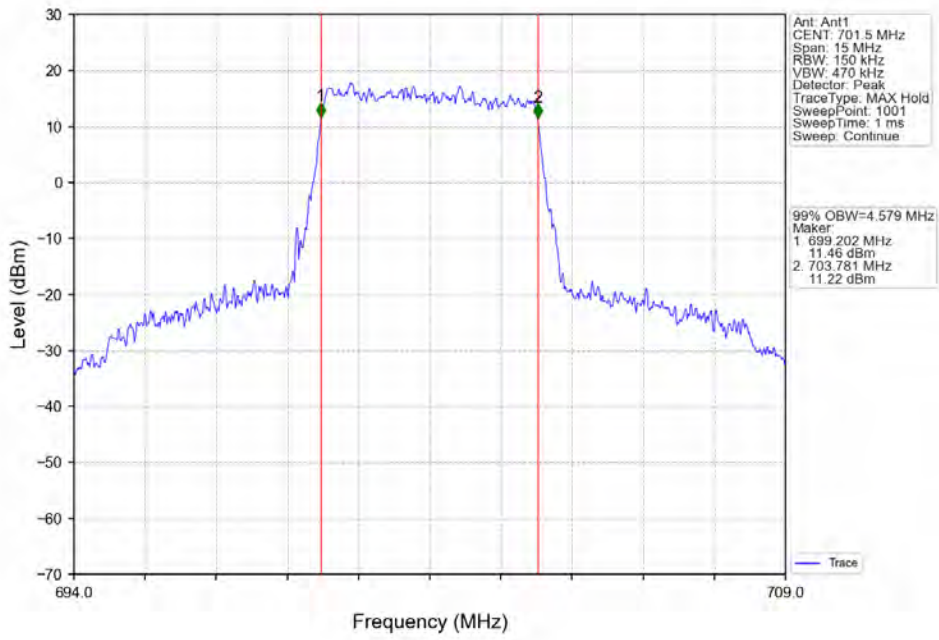


Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

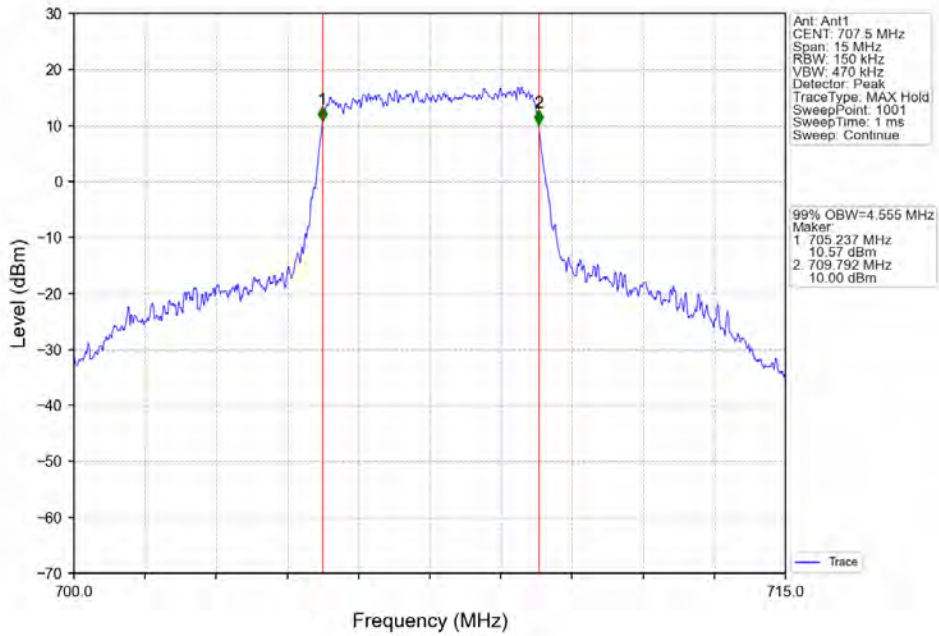




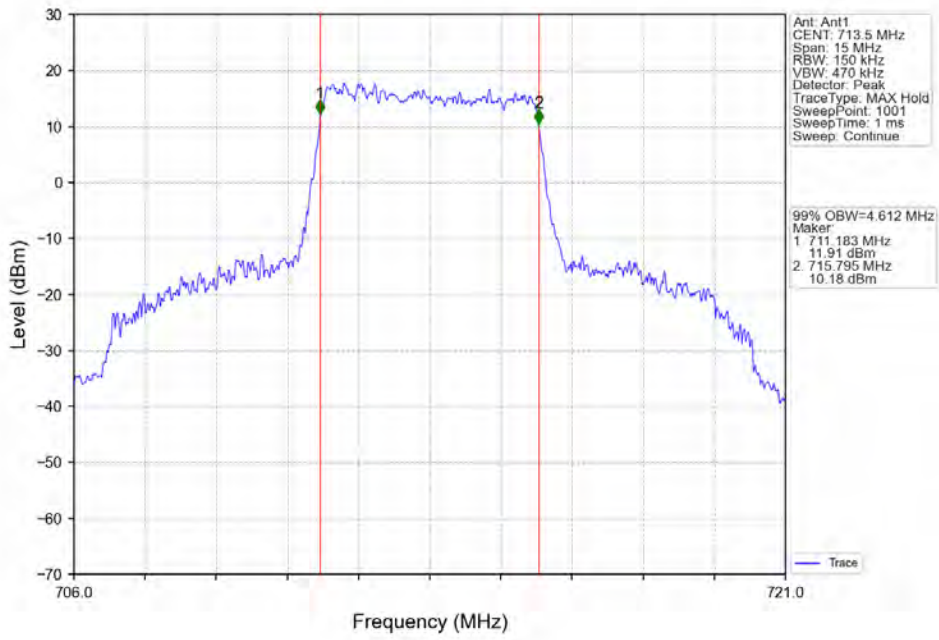
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



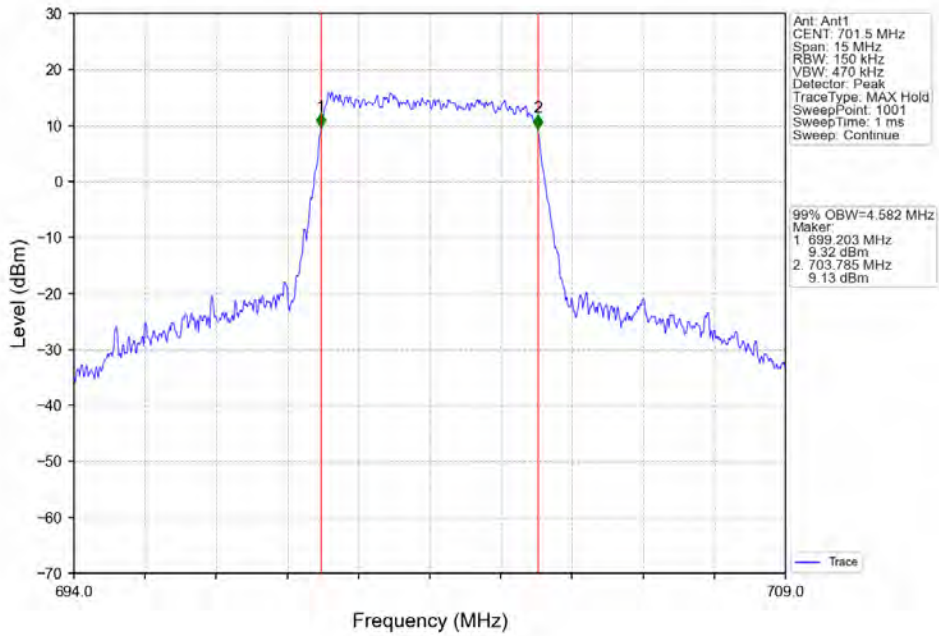
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



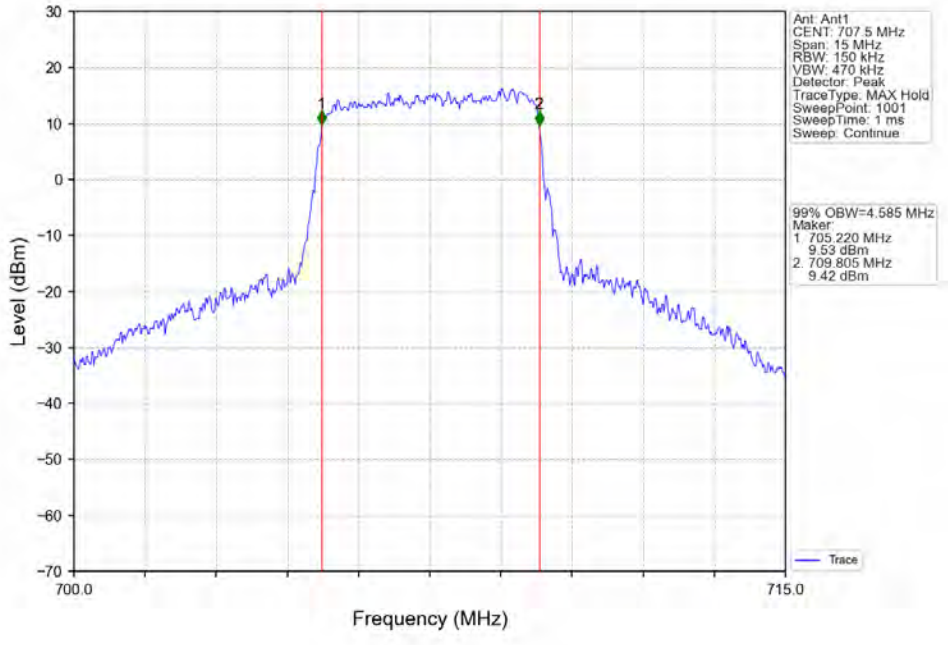
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



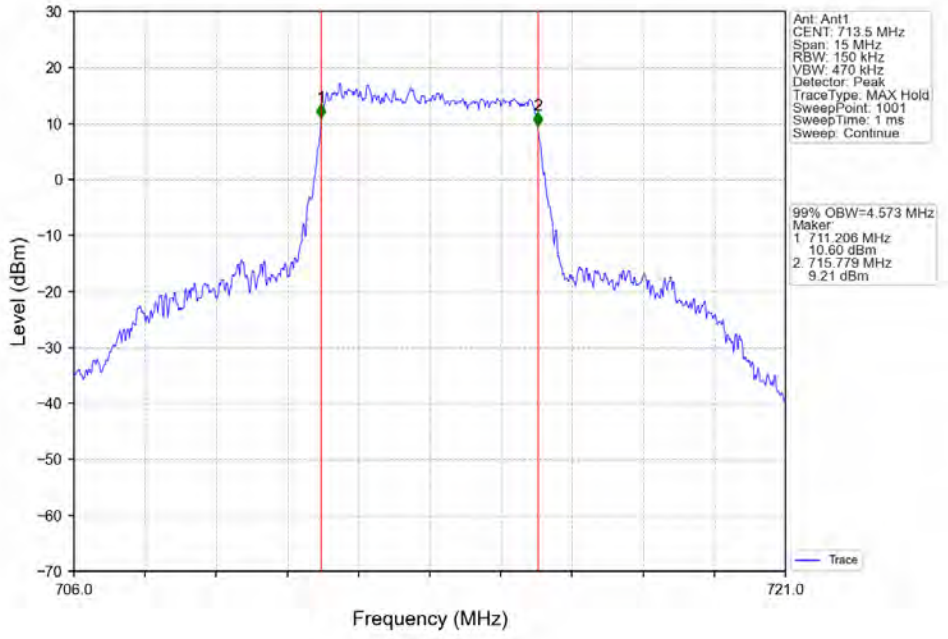
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



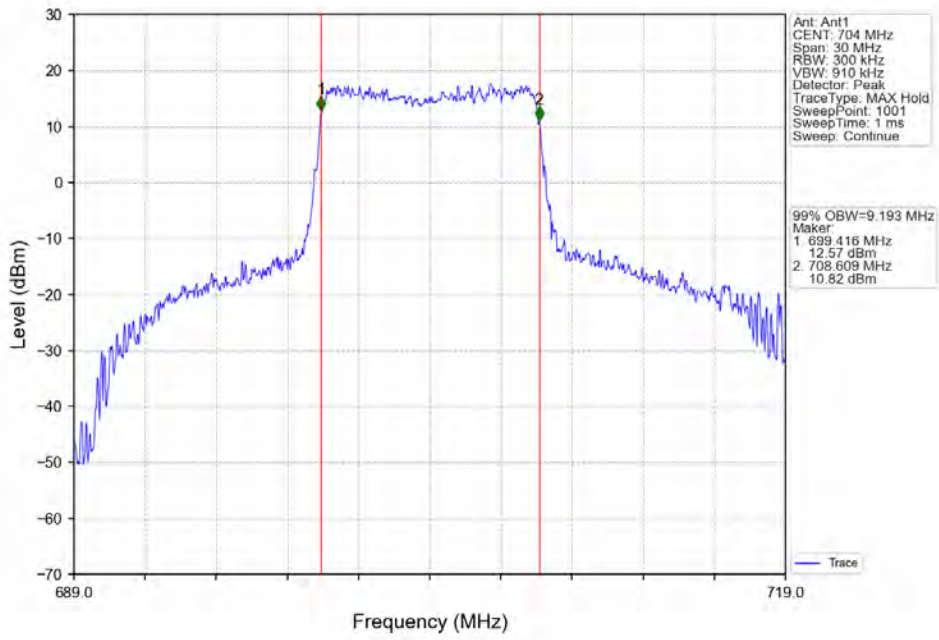
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



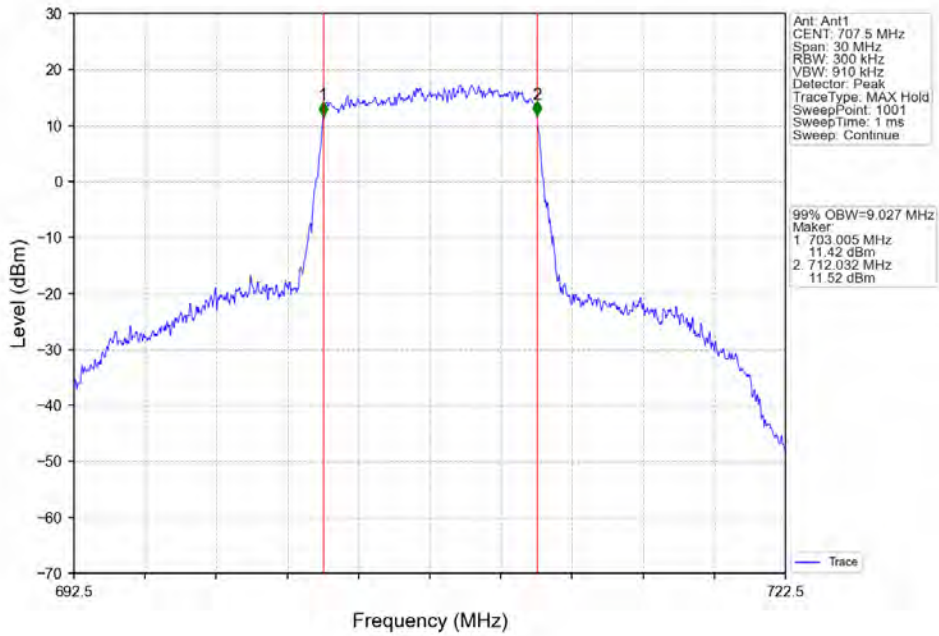
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



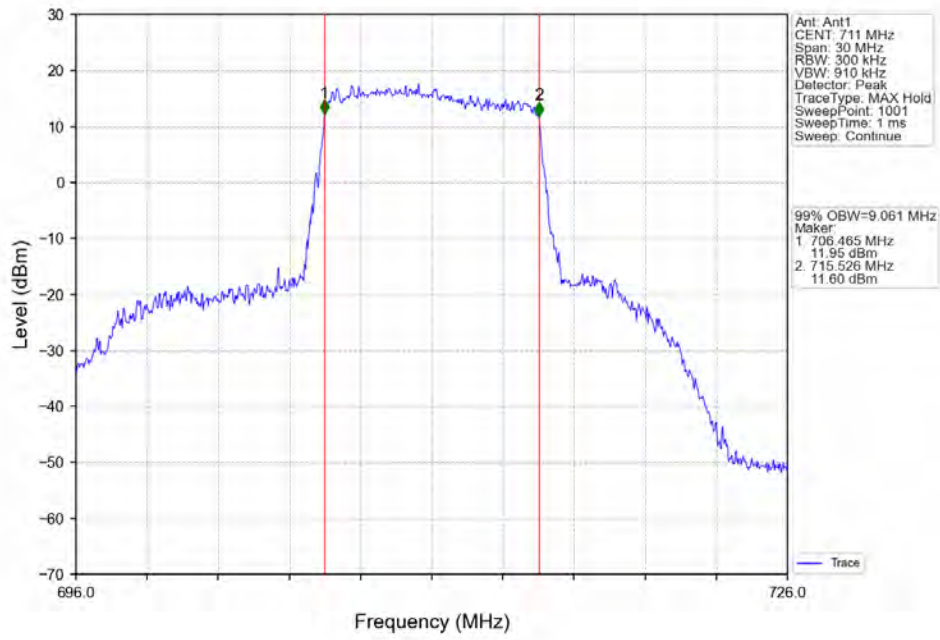
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



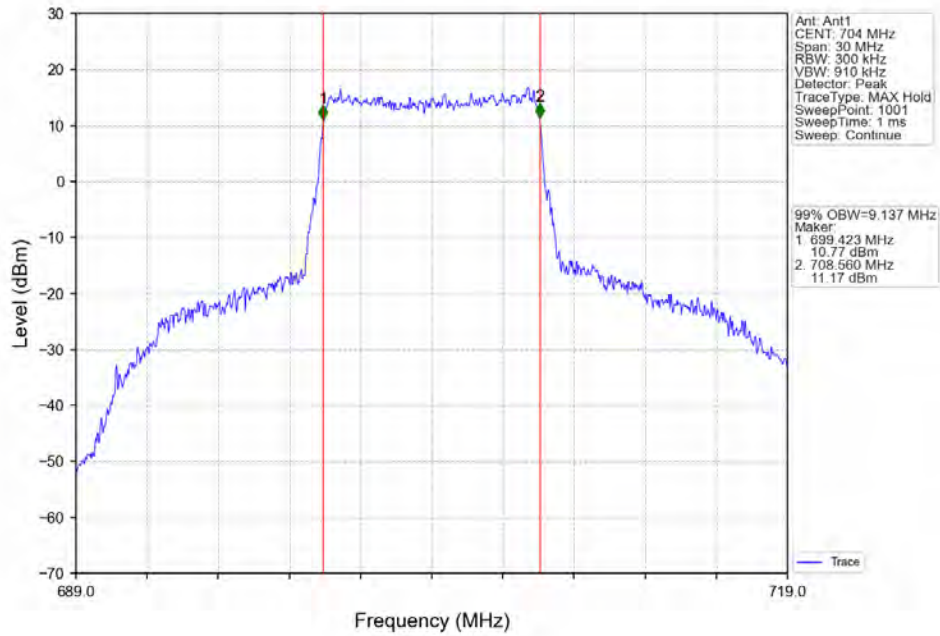
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



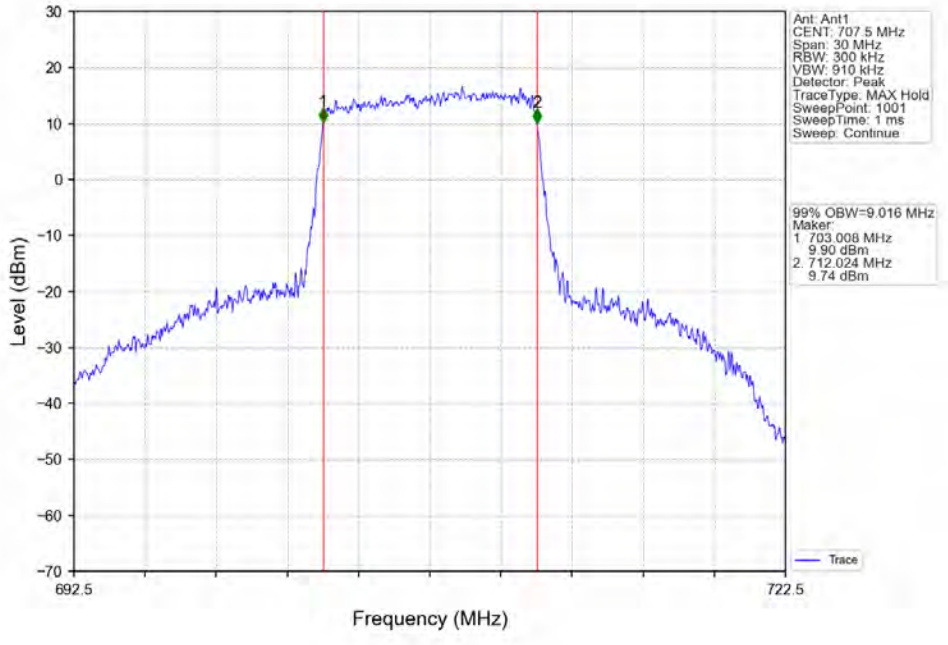
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



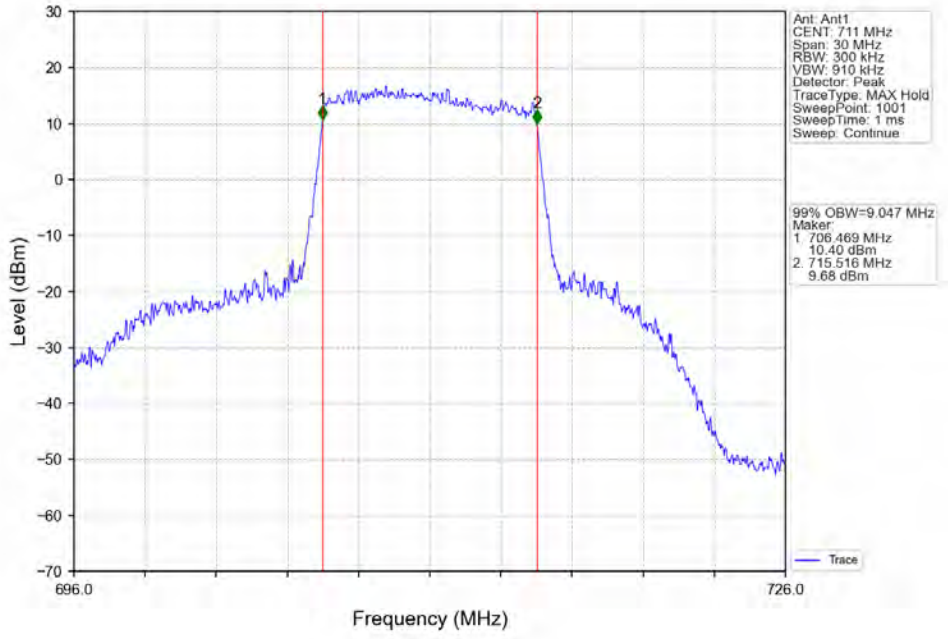
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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

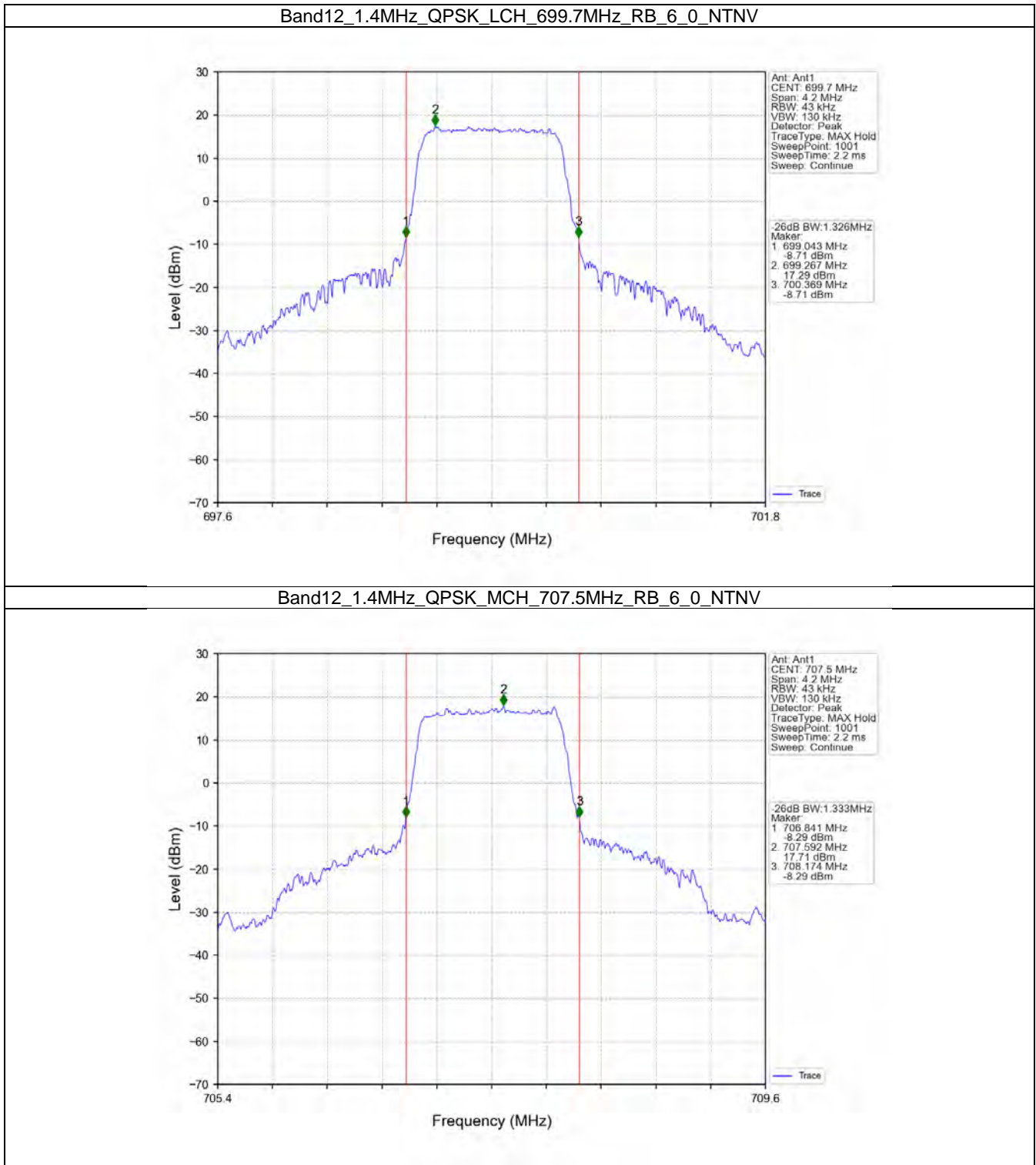


## 4.2 Band12\_XDB

### 4.2.1 Test Result

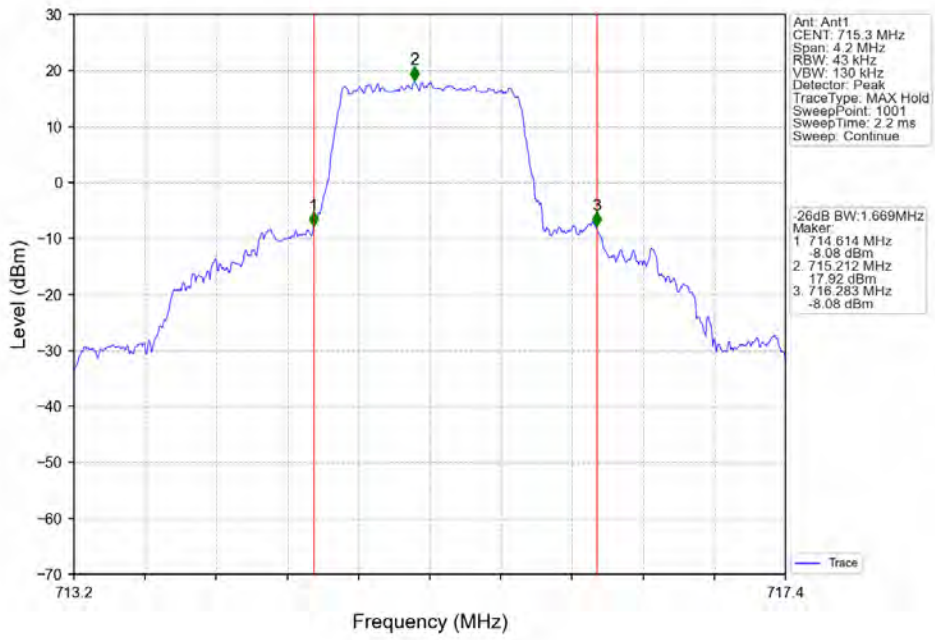
| Band: 12 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.326                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.333                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.669                | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.317                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.315                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.313                | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.989                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.970                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.006                | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 3.007                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.983                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.023                | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 5.449                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.247                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.291                | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 5.284                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.243                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.275                | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 10.432               | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 10.210               | /     | Pass    |
|                 |            | 711             | 50            | 0      | 10.149               | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 10.408               | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 10.067               | /     | Pass    |
|                 |            | 711             | 50            | 0      | 10.160               | /     | Pass    |

### 4.2.2 Test Graph

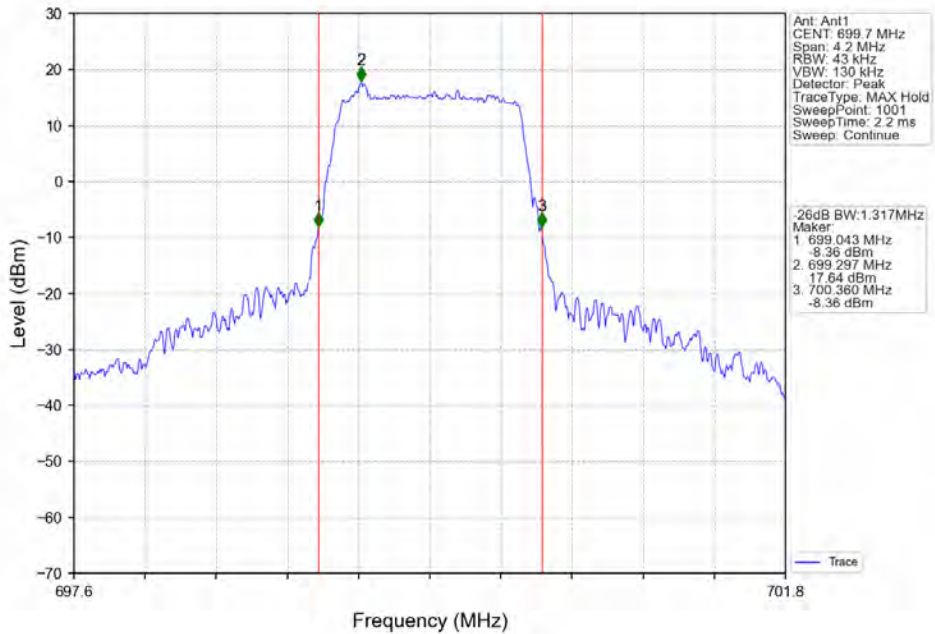




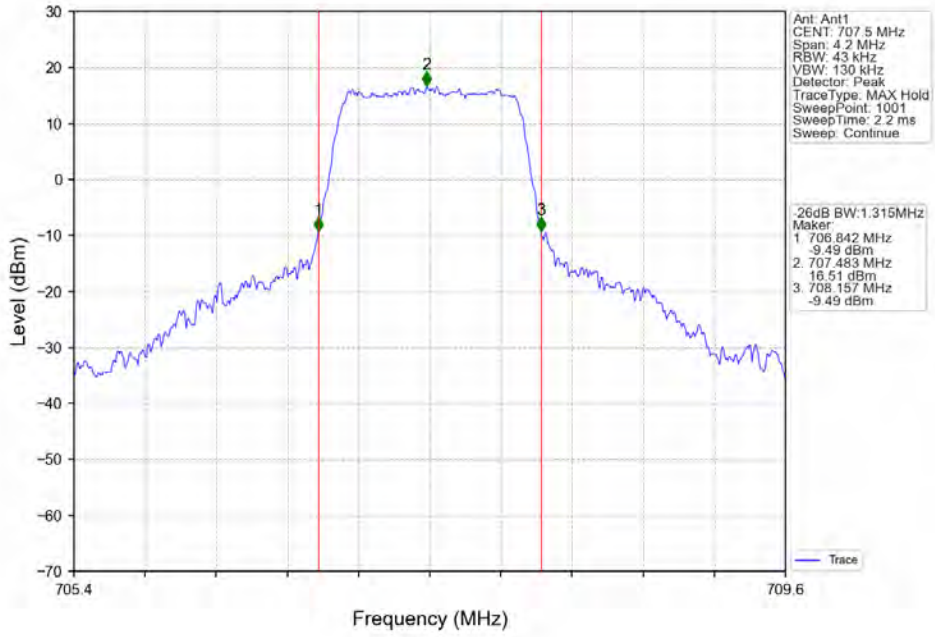
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



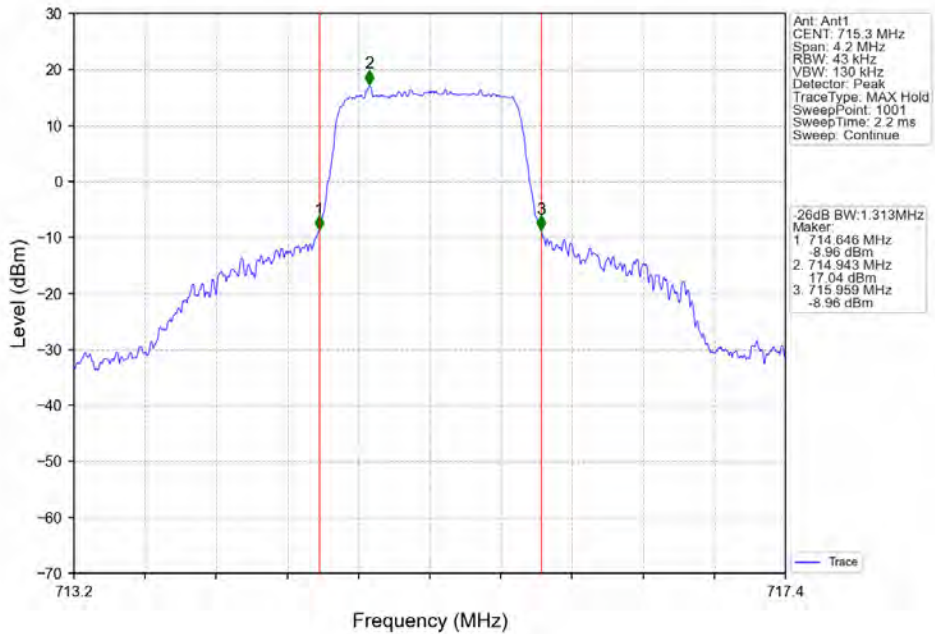
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



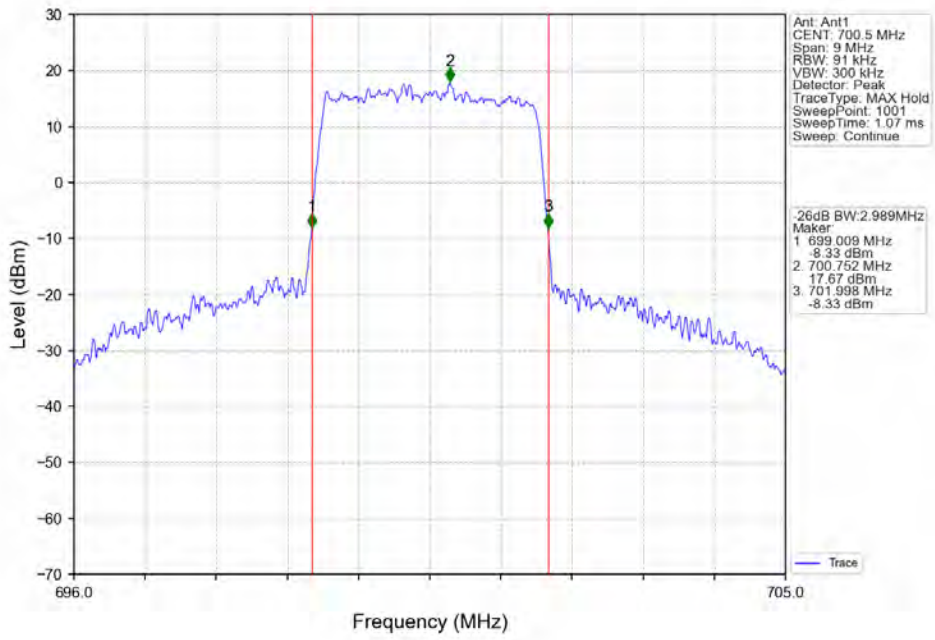
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



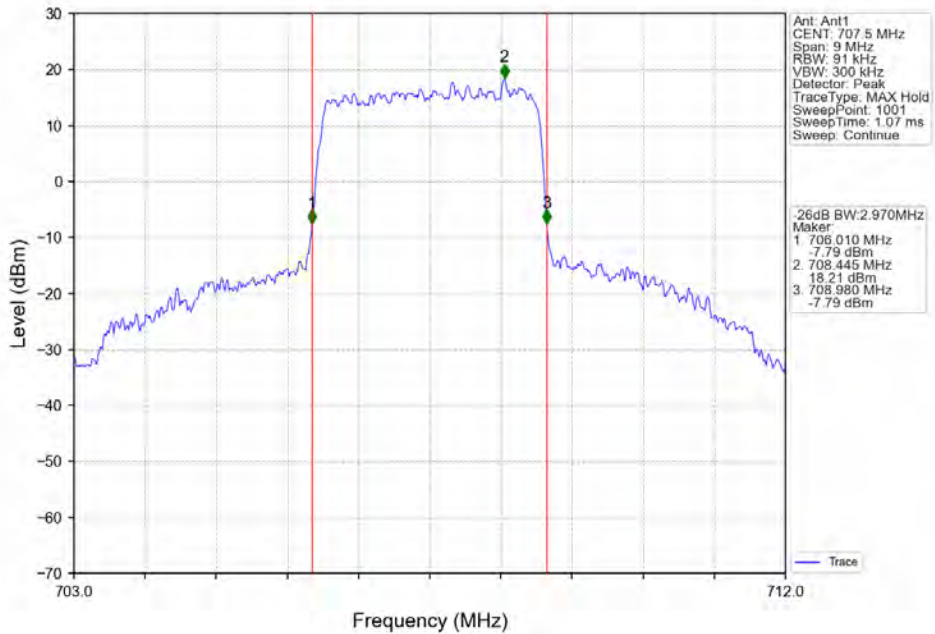
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



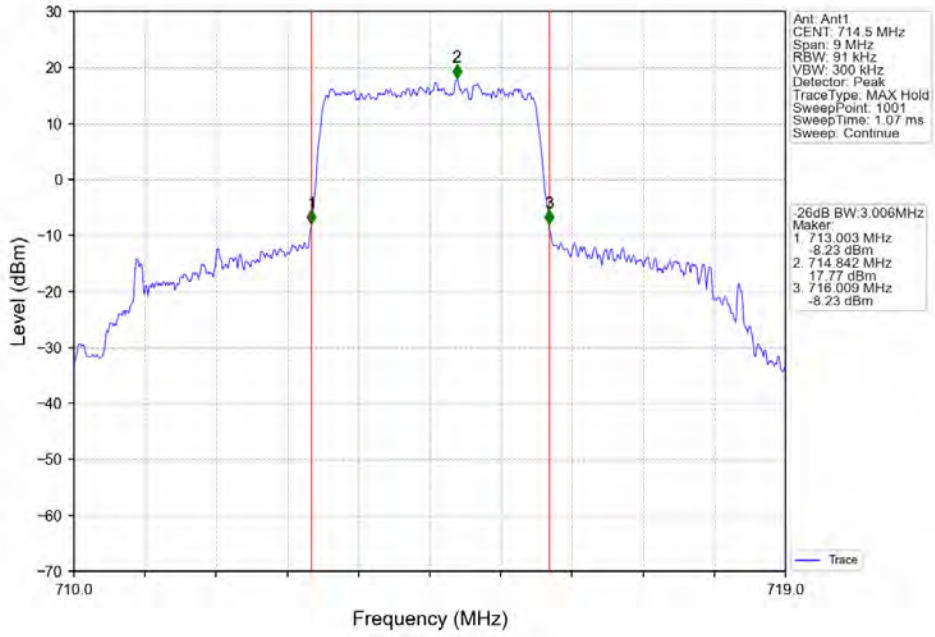
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



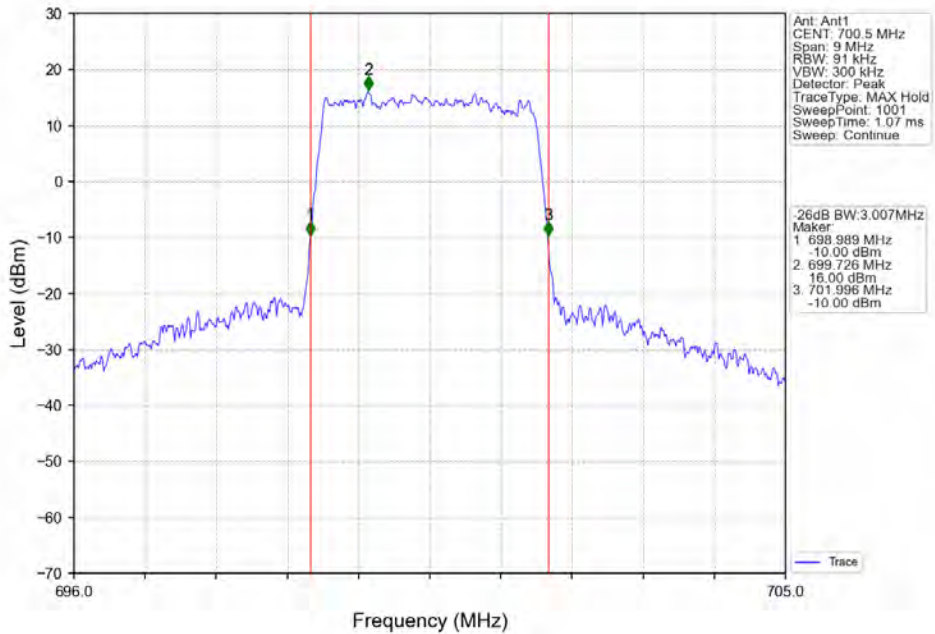
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



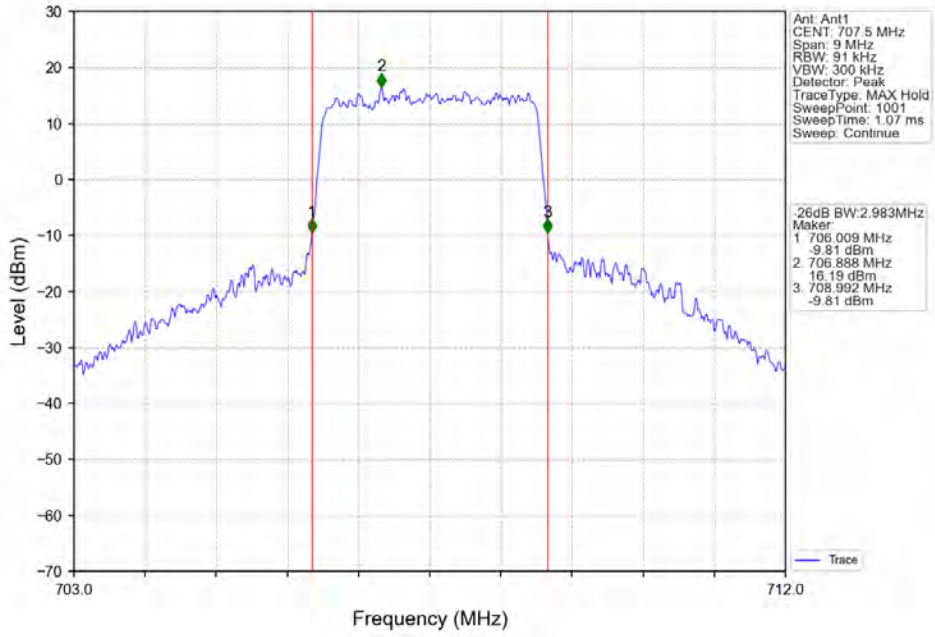
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



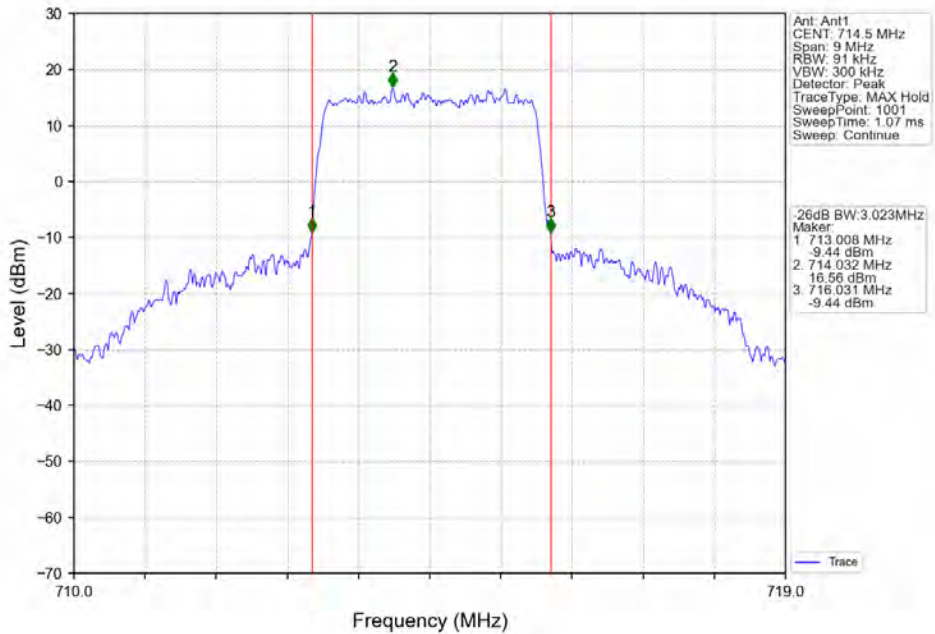
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



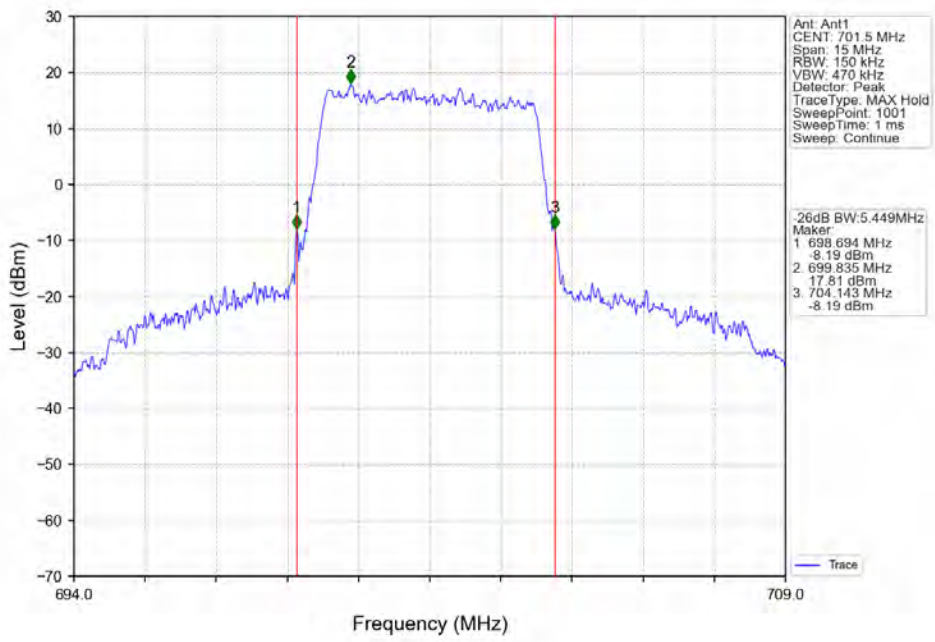
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



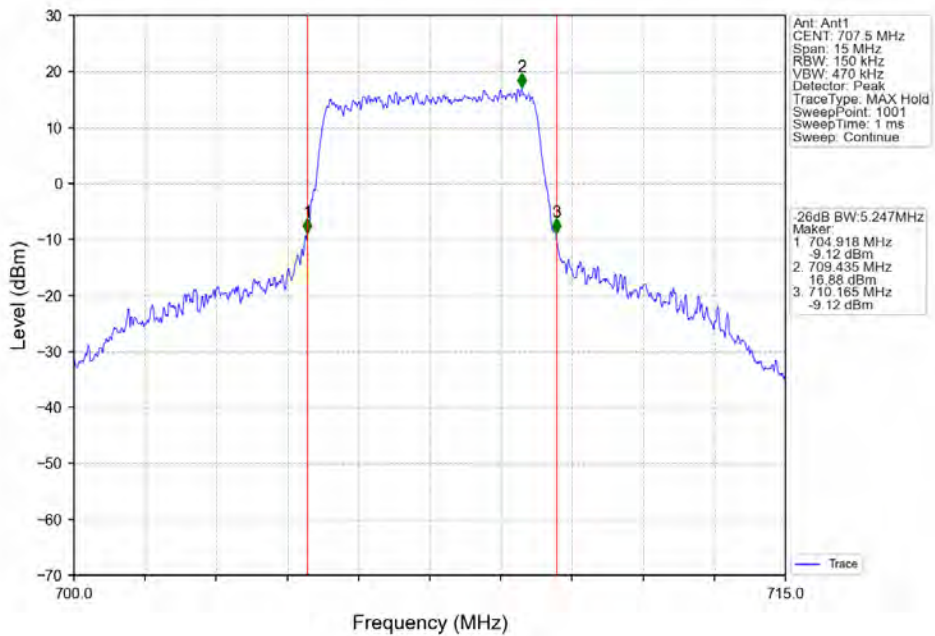
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



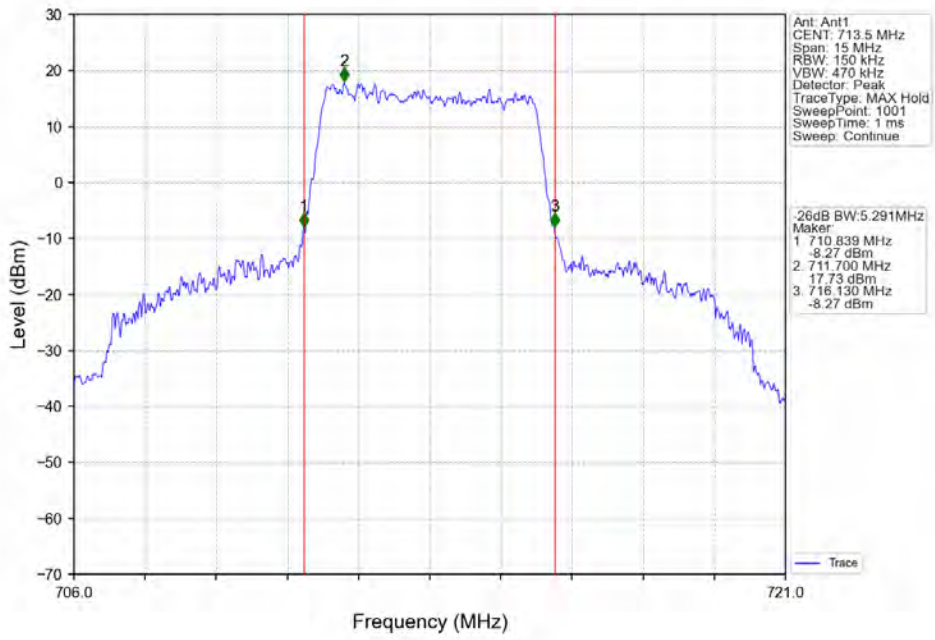
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



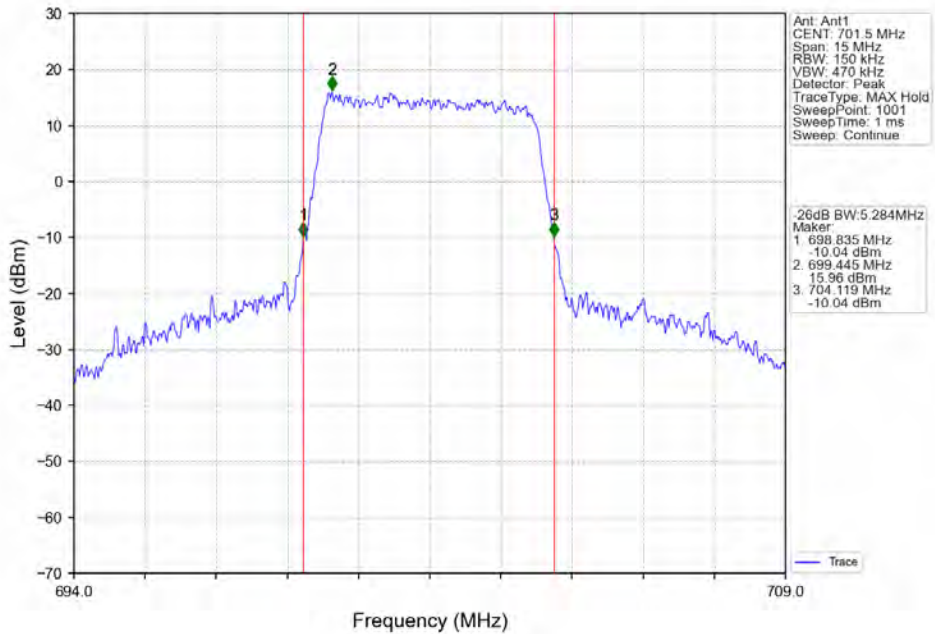
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



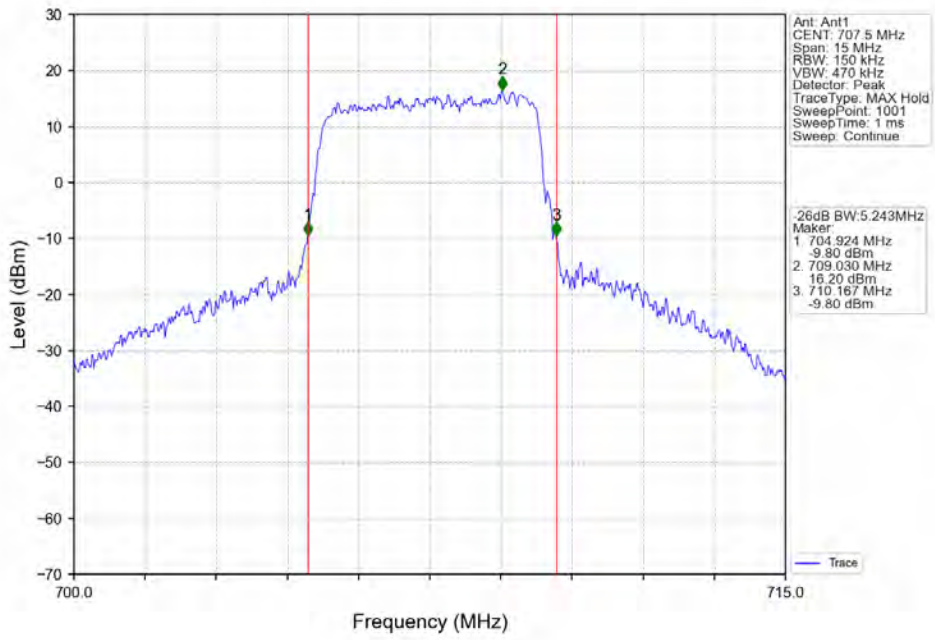
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



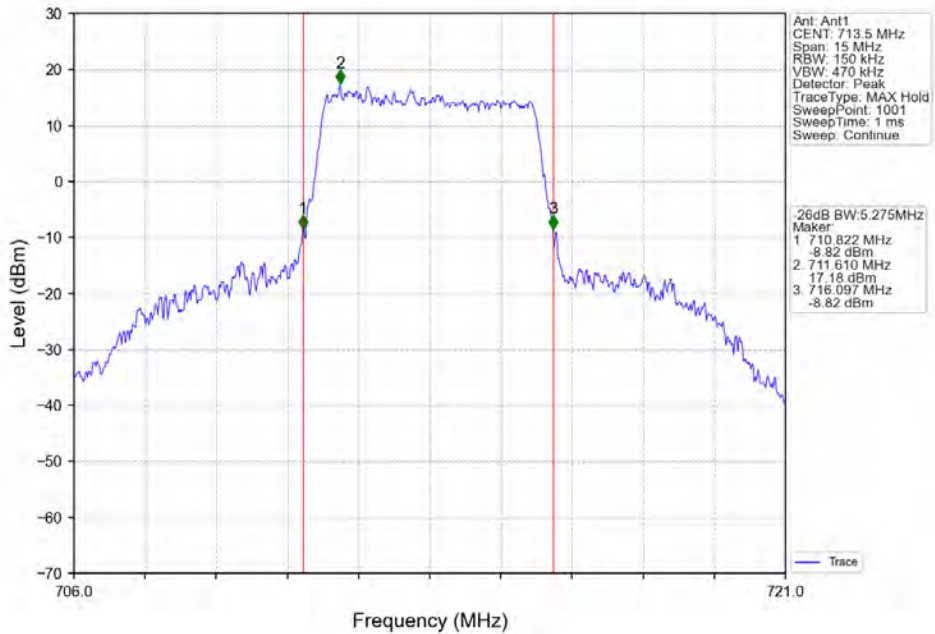
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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

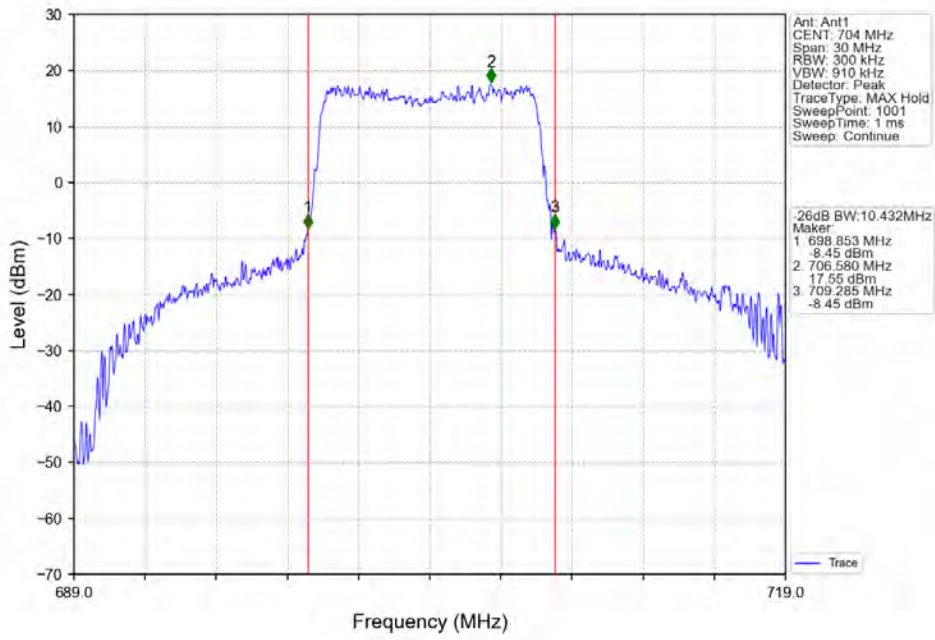


Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

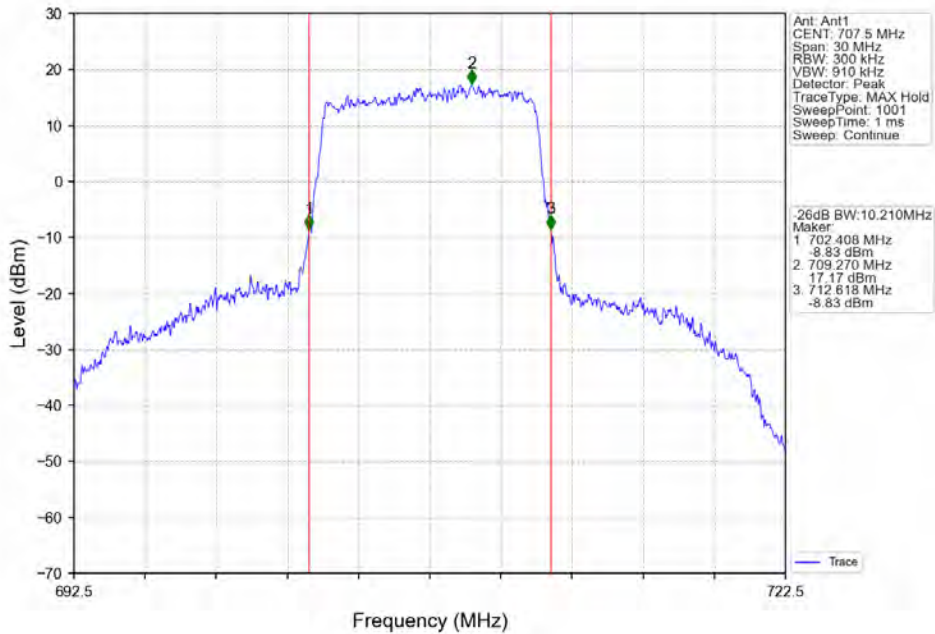




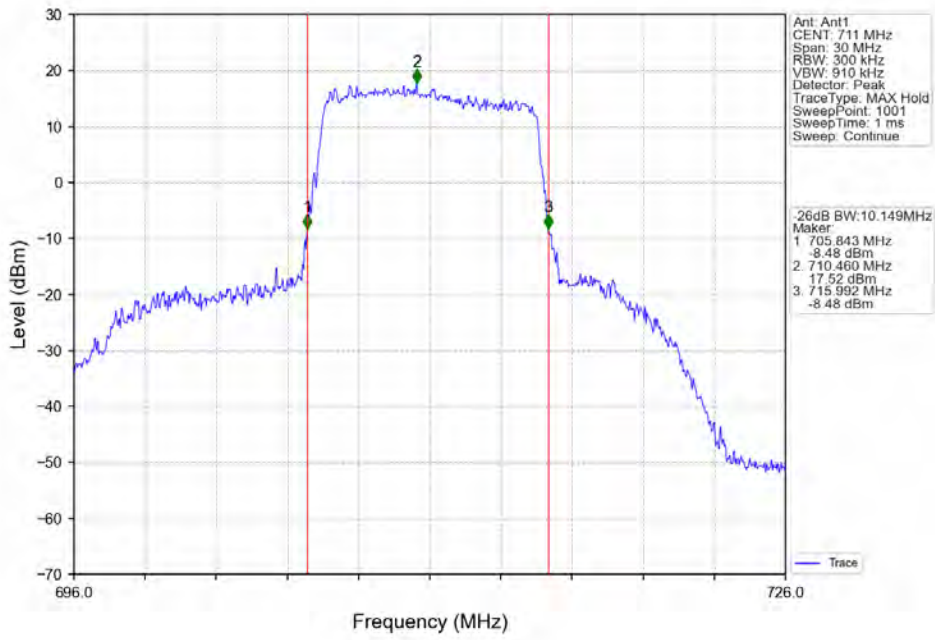
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



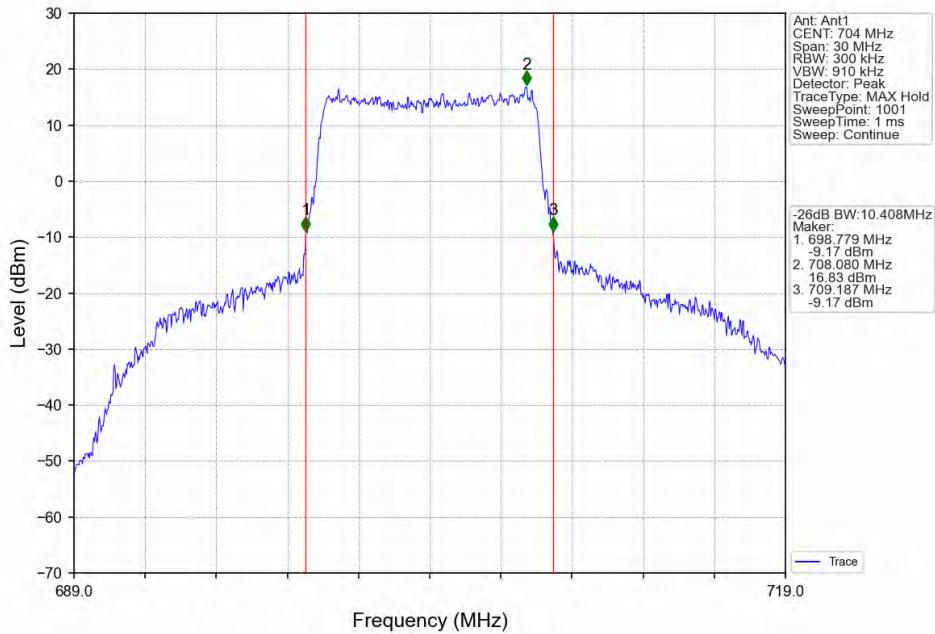
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



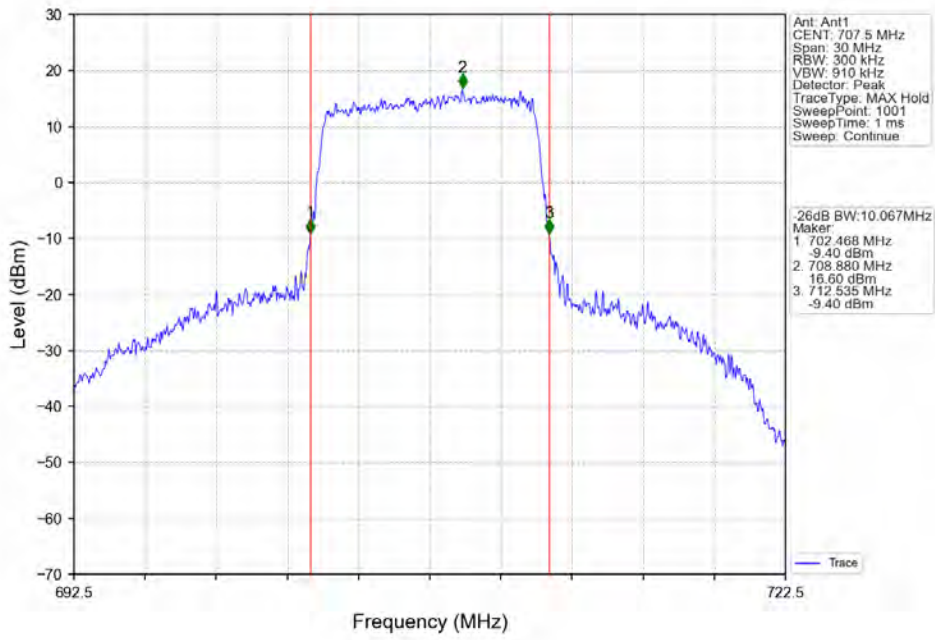
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



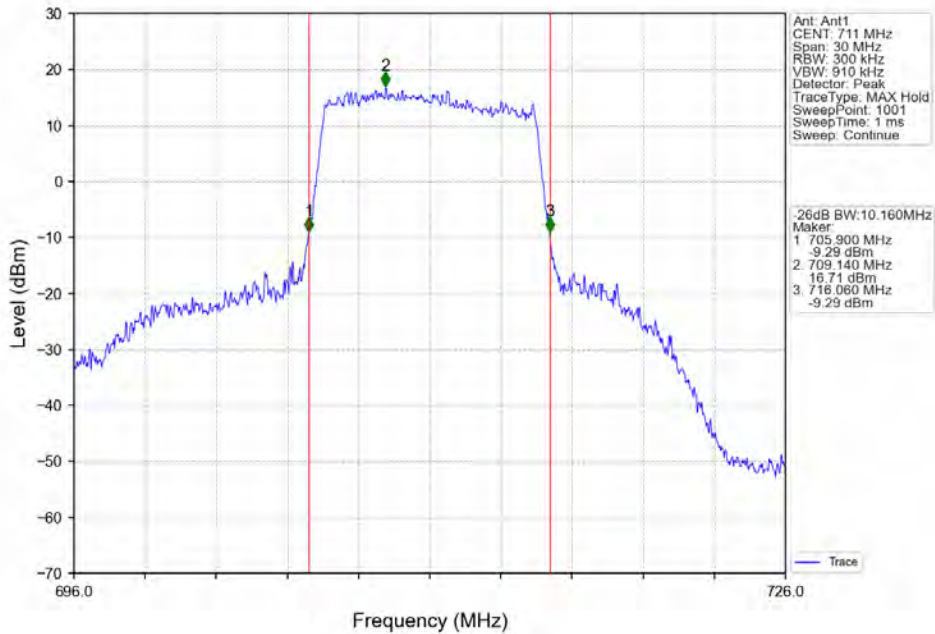
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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



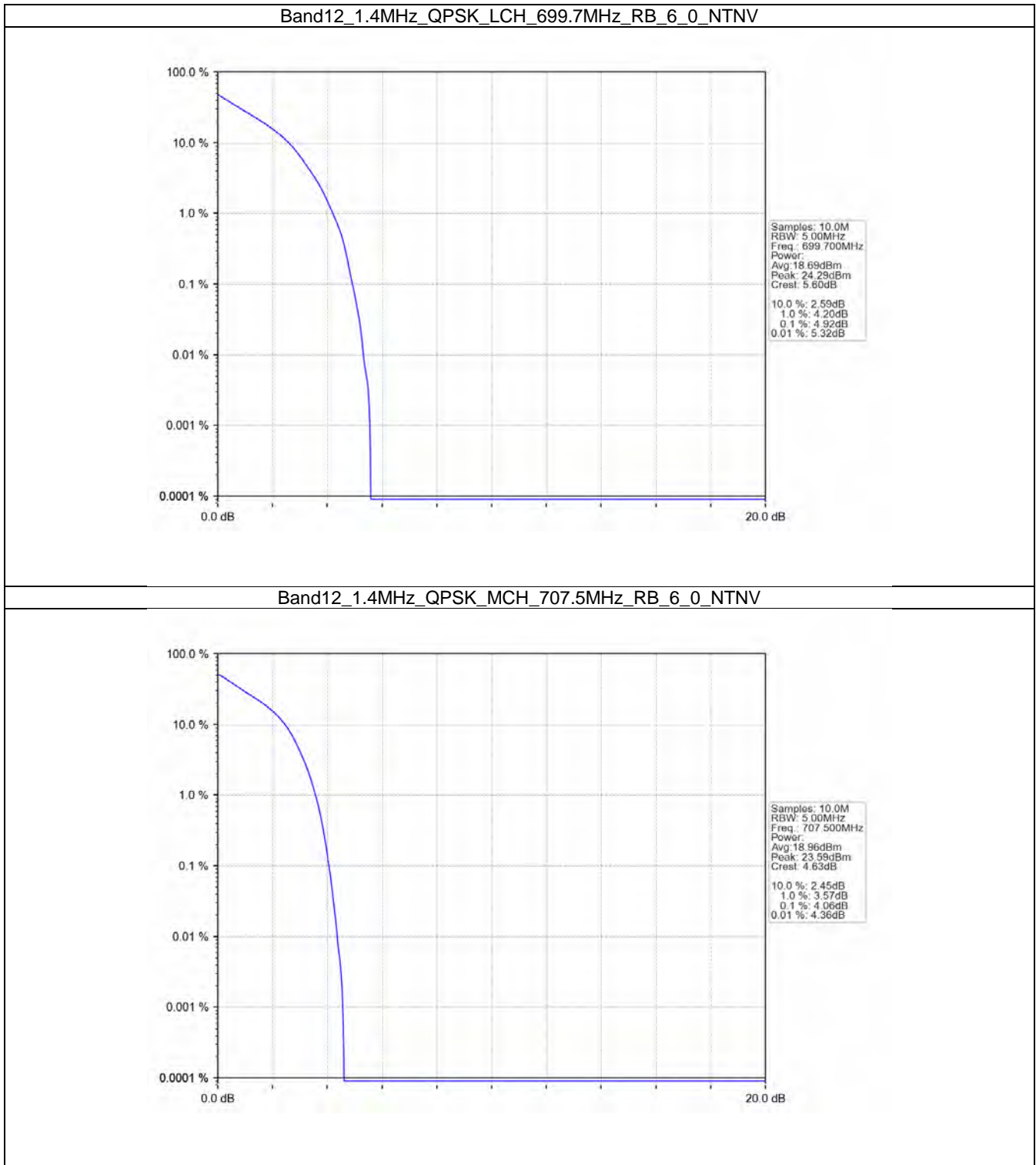
## 5. Peak-Average Ratio

### 5.1 B12\_1.4MHz

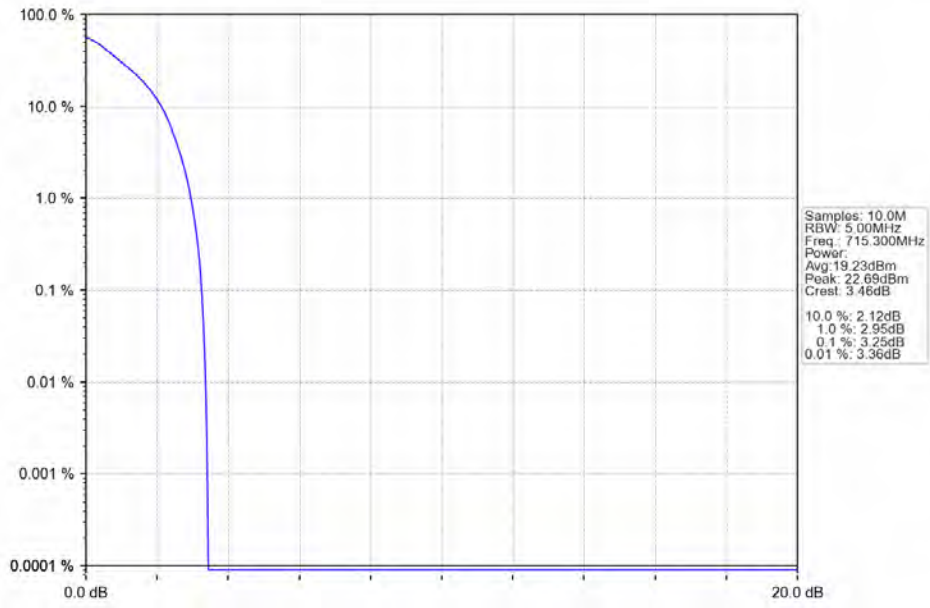
#### 5.1.1 Test Result

| Band: 12 / Bandwidth: 1.4MHz / NTN |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 699.7           | 6             | 0      | 4.92                    | <=13  | Pass    |
|                                    | 707.5           | 6             | 0      | 4.06                    | <=13  | Pass    |
|                                    | 715.3           | 6             | 0      | 3.25                    | <=13  | Pass    |
| 16QAM                              | 699.7           | 6             | 0      | 5.82                    | <=13  | Pass    |
|                                    | 707.5           | 6             | 0      | 4.95                    | <=13  | Pass    |
|                                    | 715.3           | 6             | 0      | 4.39                    | <=13  | Pass    |

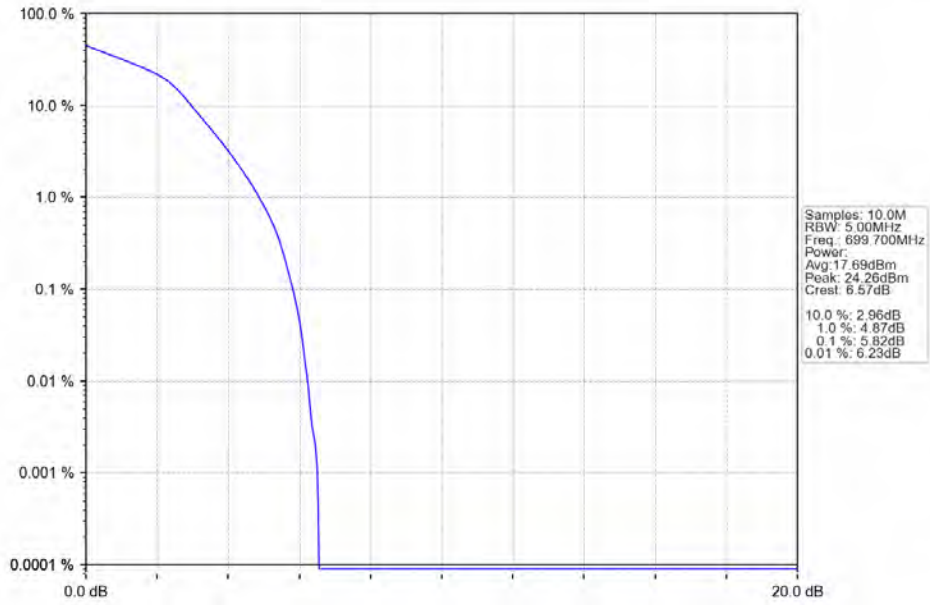
### 5.1.2 Test Graph



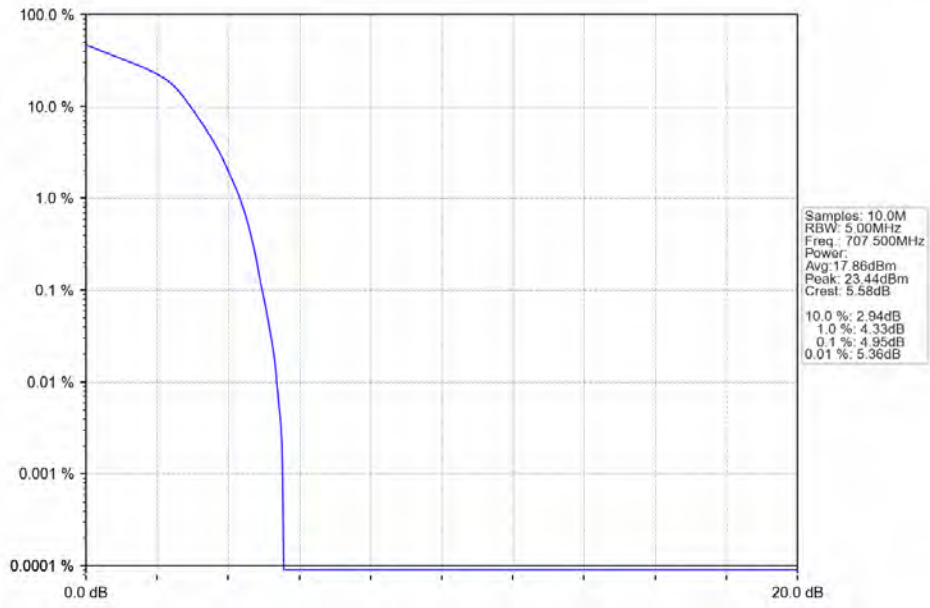
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



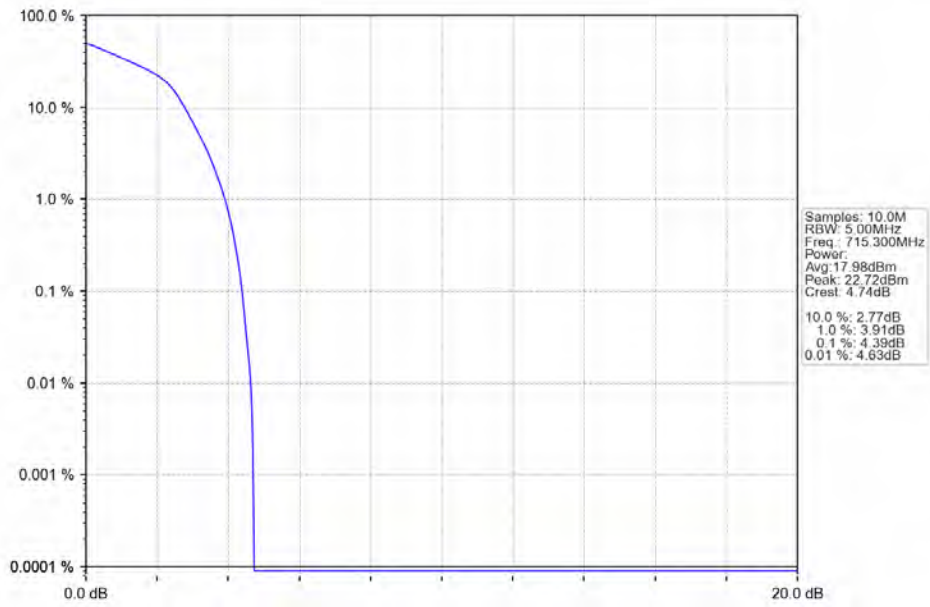
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



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



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



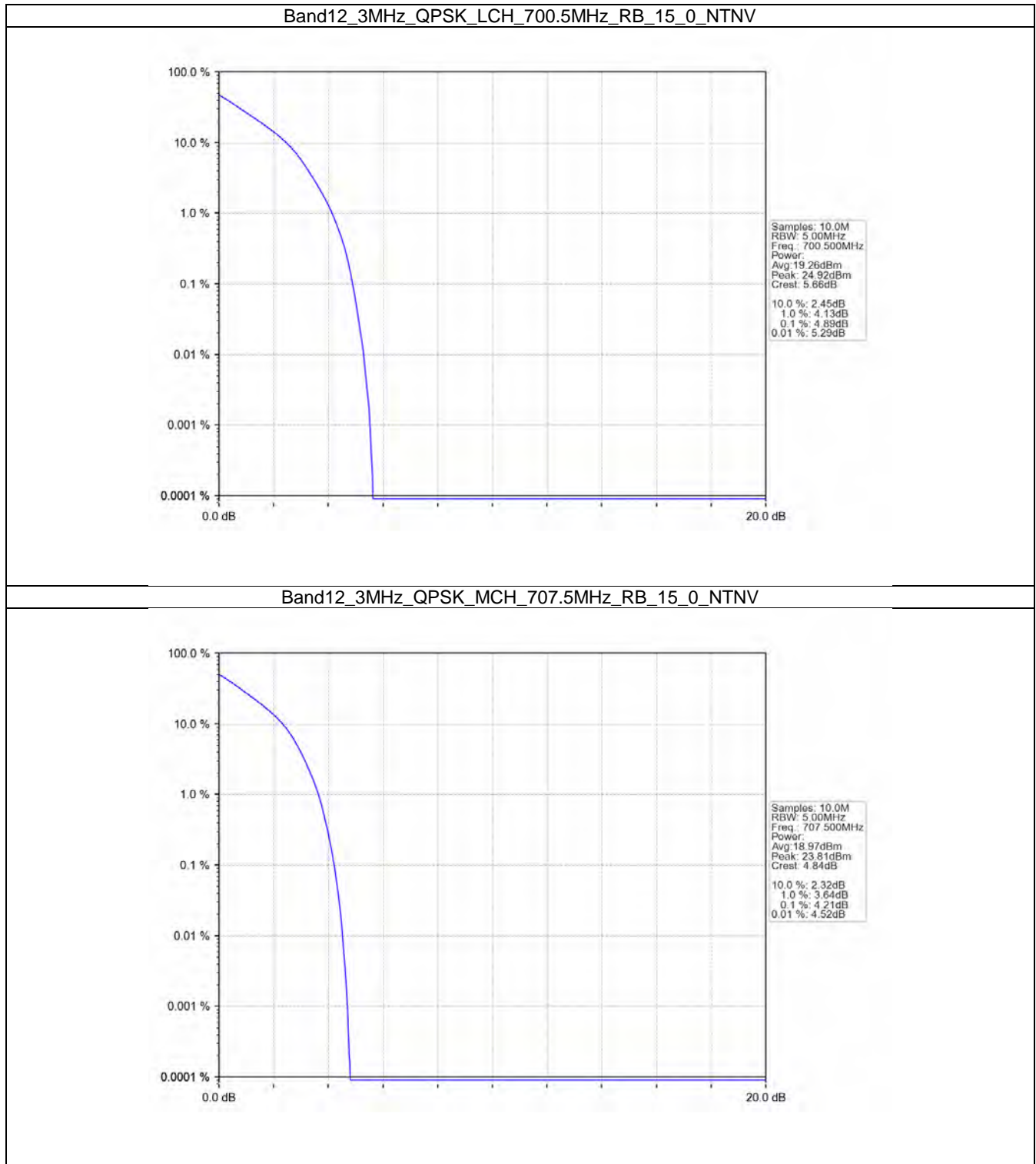
## 5.2 B12\_3MHz

### 5.2.1 Test Result

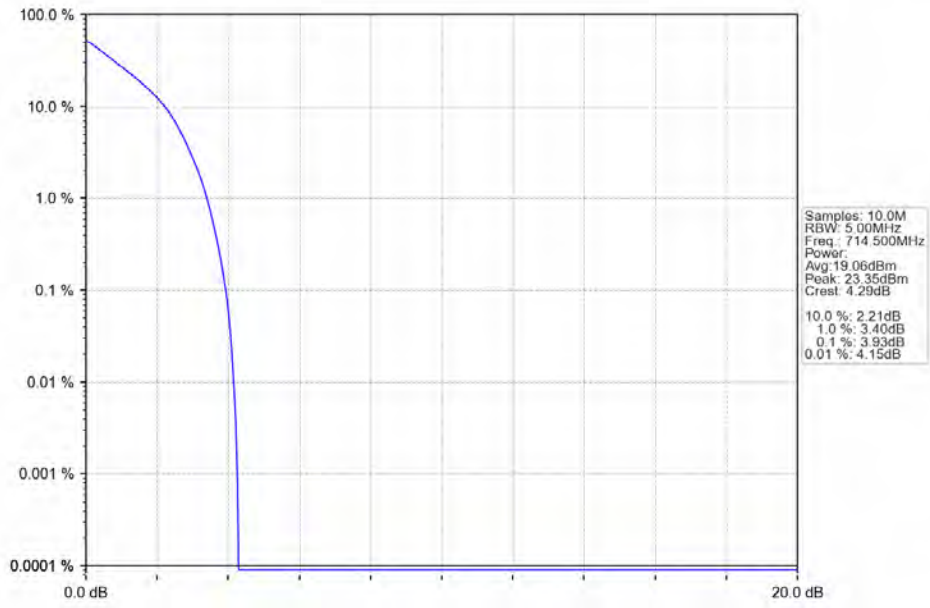
| Band: 12 / Bandwidth: 3MHz / NTV |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 700.5           | 15            | 0      | 4.89                    | <=13  | Pass    |
|                                  | 707.5           | 15            | 0      | 4.21                    | <=13  | Pass    |
|                                  | 714.5           | 15            | 0      | 3.93                    | <=13  | Pass    |
| 16QAM                            | 700.5           | 15            | 0      | 5.86                    | <=13  | Pass    |
|                                  | 707.5           | 15            | 0      | 5.13                    | <=13  | Pass    |
|                                  | 714.5           | 15            | 0      | 4.90                    | <=13  | Pass    |



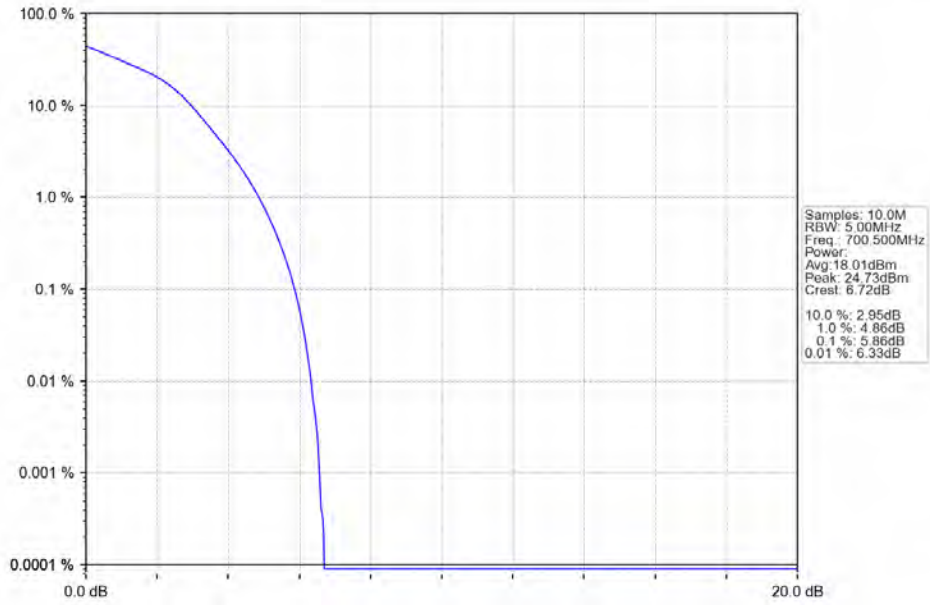
## 5.2.2 Test Graph



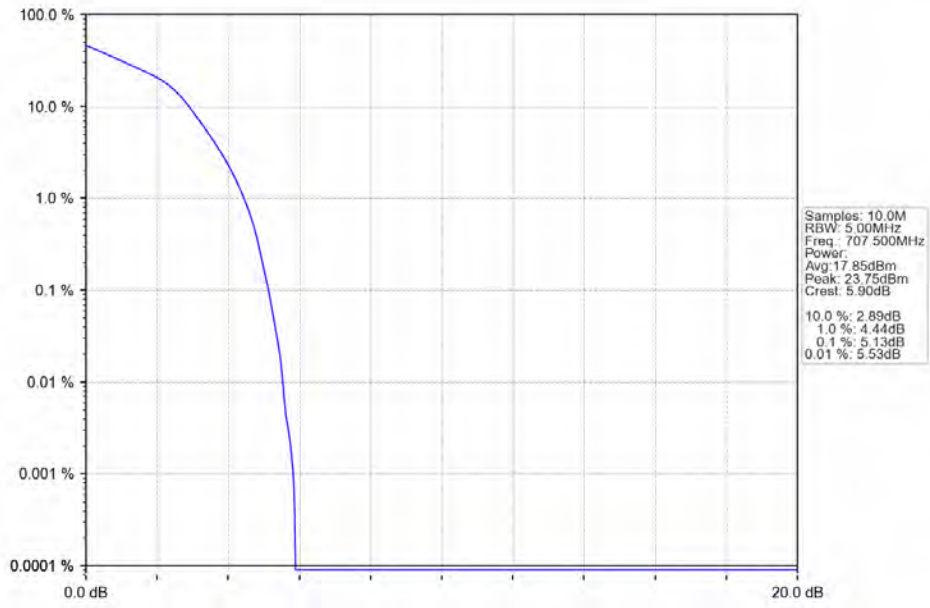
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



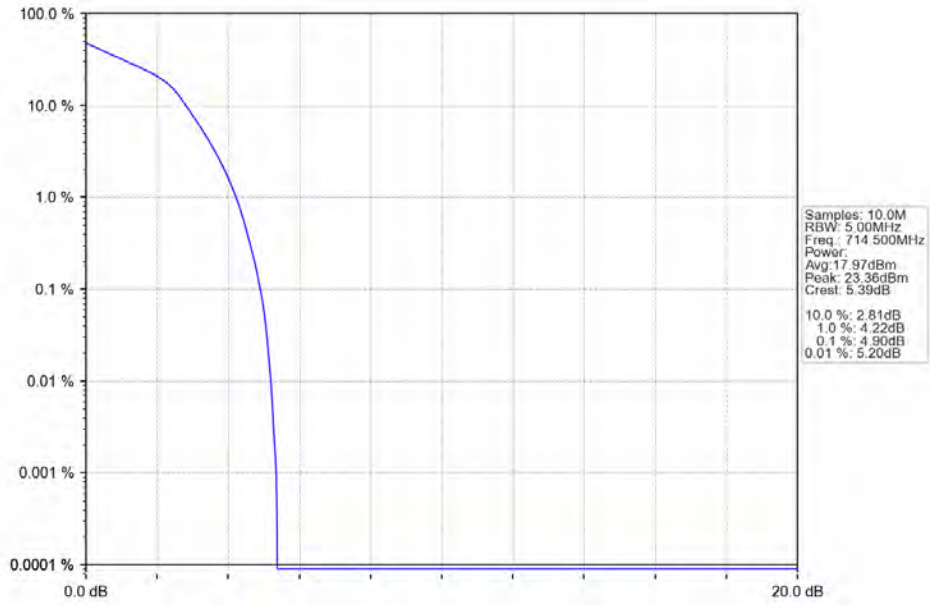
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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



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

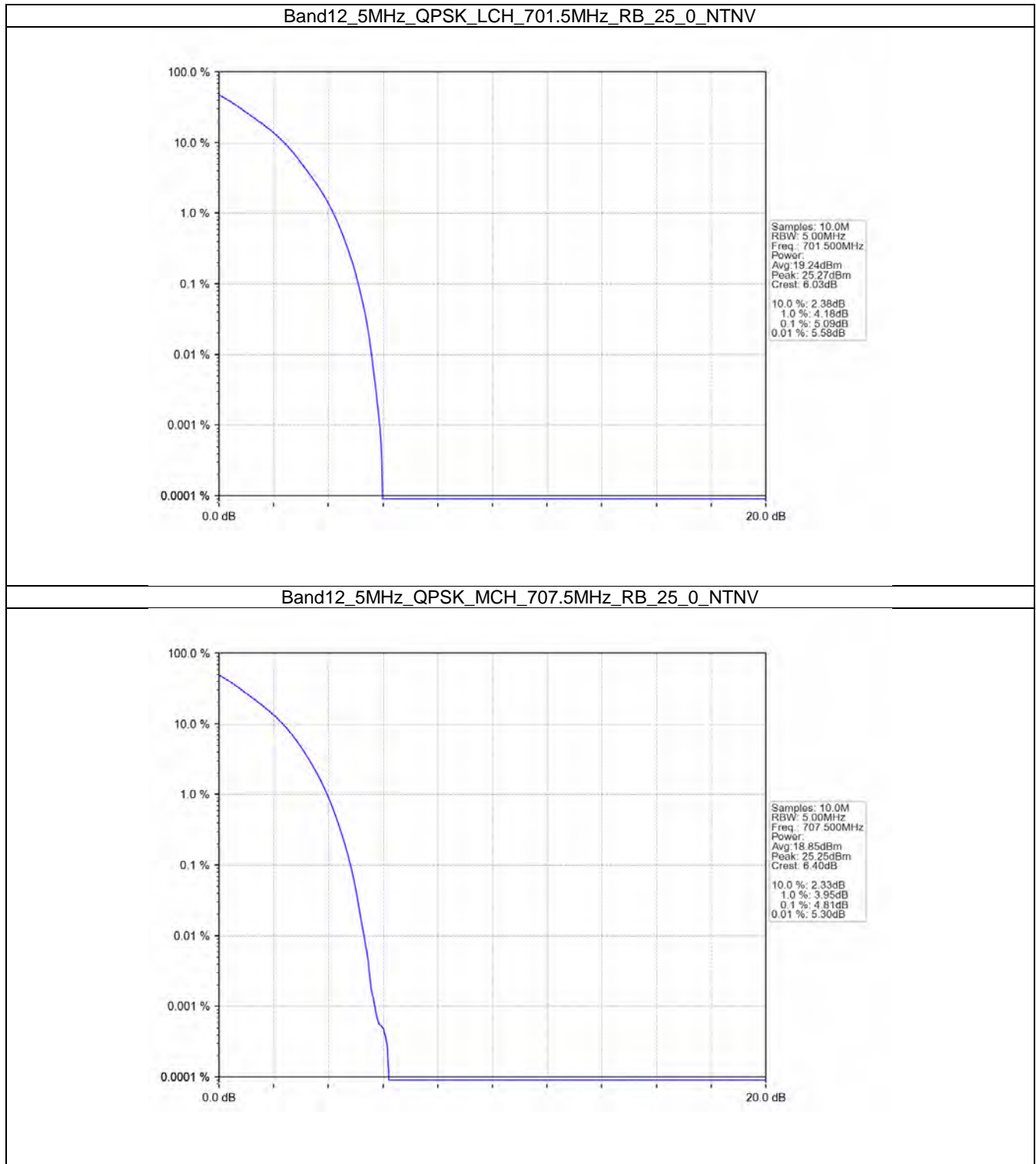


## 5.3 B12\_5MHz

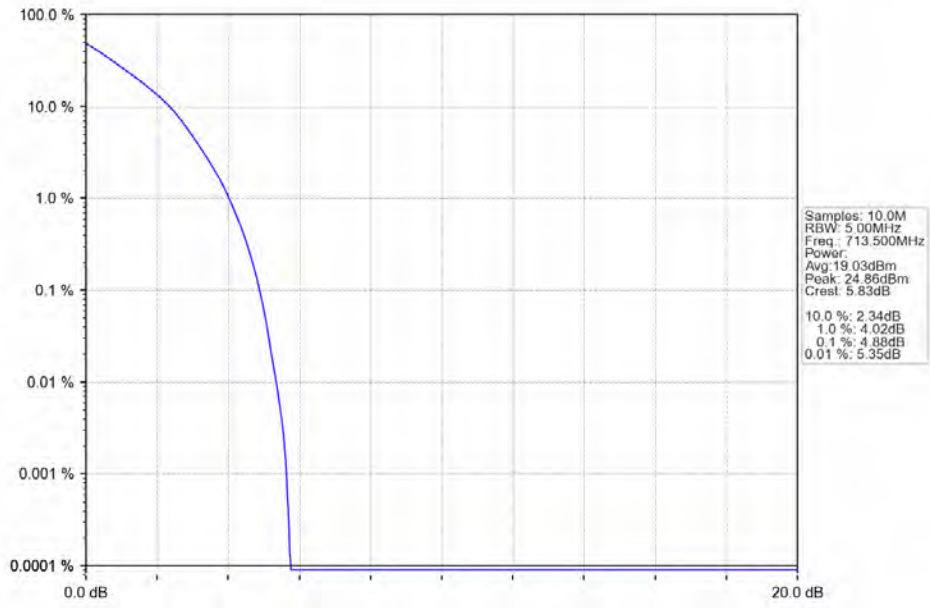
### 5.3.1 Test Result

| Band: 12 / Bandwidth: 5MHz / NTV |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 701.5           | 25            | 0      | 5.09                    | <=13  | Pass    |
|                                  | 707.5           | 25            | 0      | 4.81                    | <=13  | Pass    |
|                                  | 713.5           | 25            | 0      | 4.88                    | <=13  | Pass    |
| 16QAM                            | 701.5           | 25            | 0      | 6.02                    | <=13  | Pass    |
|                                  | 707.5           | 25            | 0      | 5.53                    | <=13  | Pass    |
|                                  | 713.5           | 25            | 0      | 5.65                    | <=13  | Pass    |

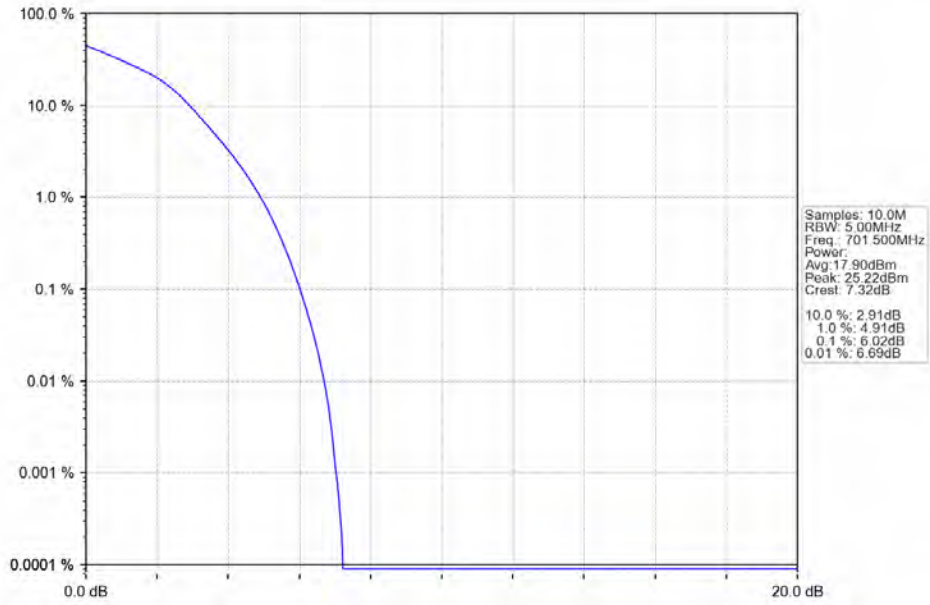
### 5.3.2 Test Graph



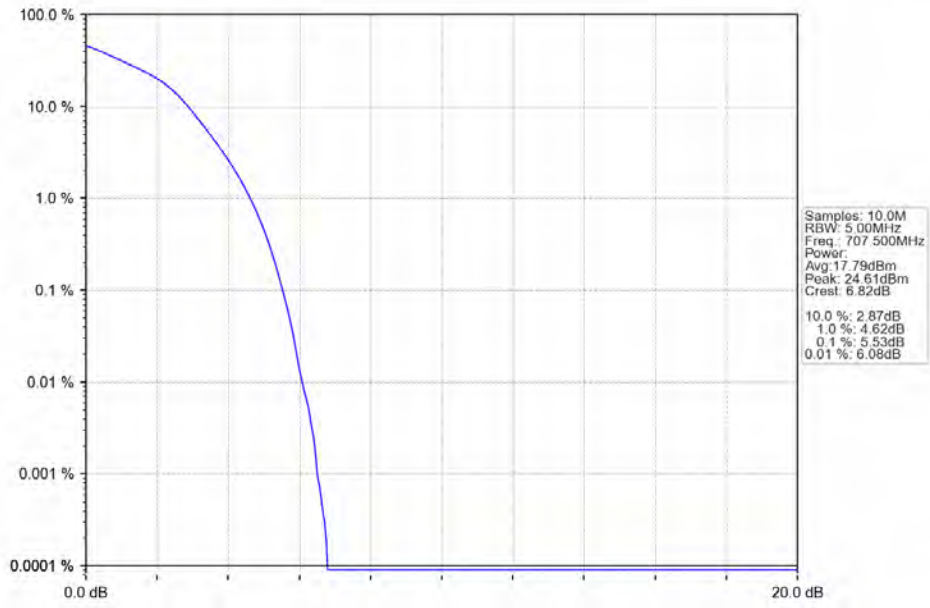
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



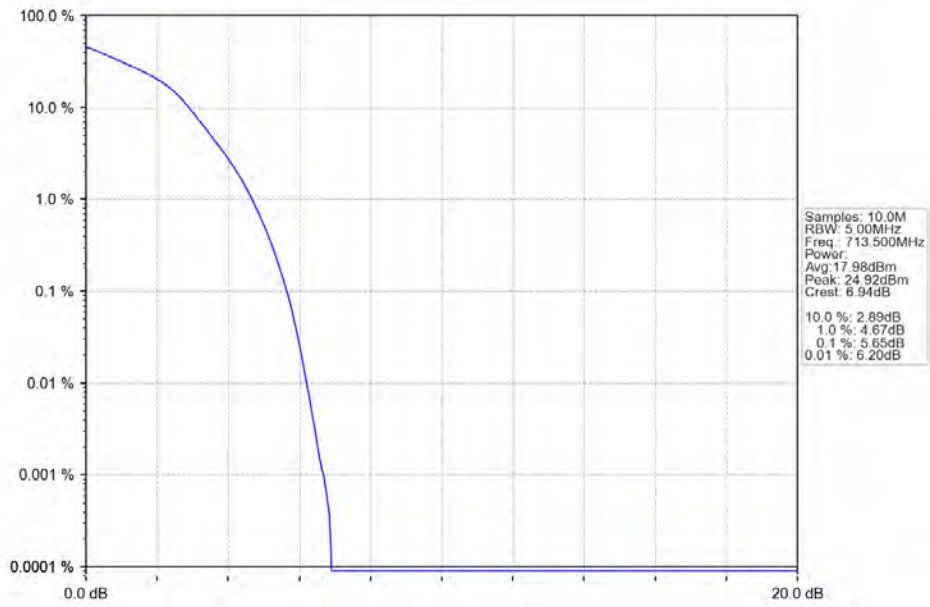
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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



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



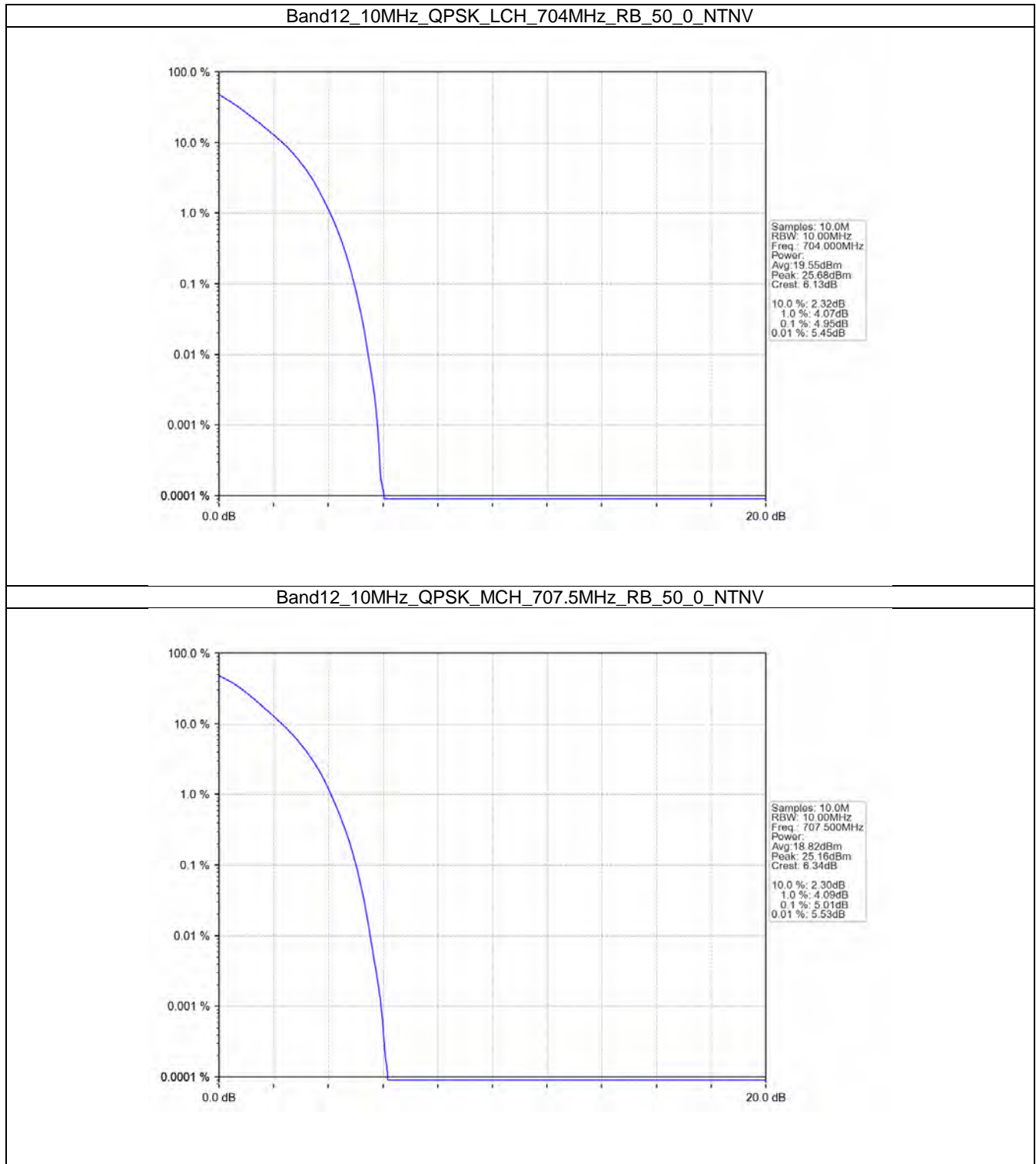
## 5.4 B12\_10MHz

### 5.4.1 Test Result

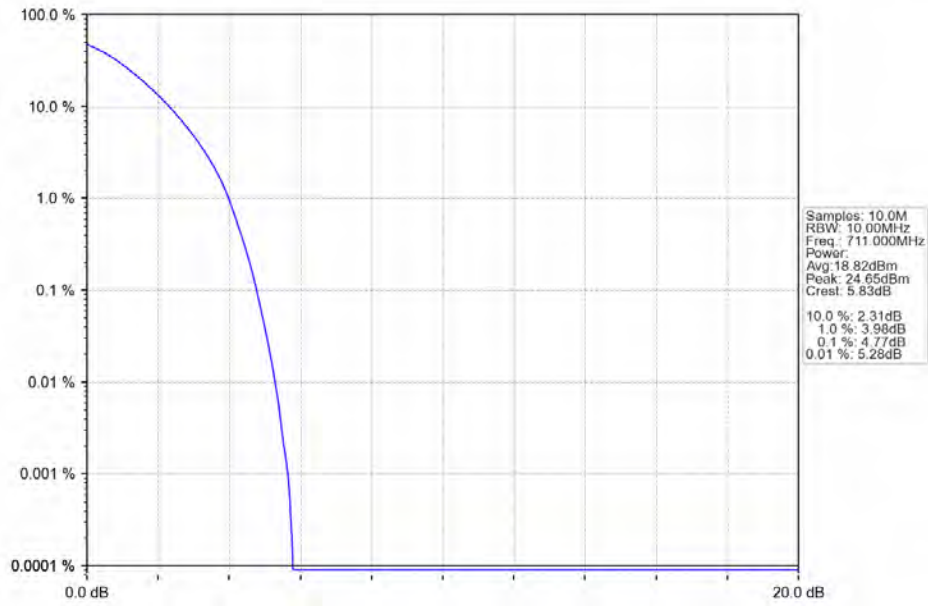
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 704             | 50            | 0      | 4.95                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 5.01                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 4.77                    | <=13  | Pass    |
| 16QAM                              | 704             | 50            | 0      | 5.85                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 5.80                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 5.64                    | <=13  | Pass    |



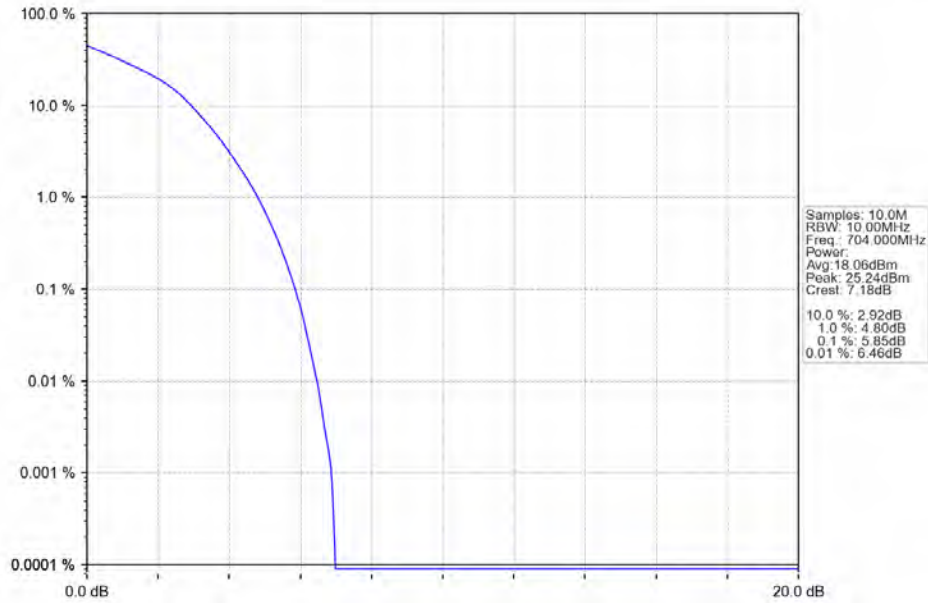
### 5.4.2 Test Graph



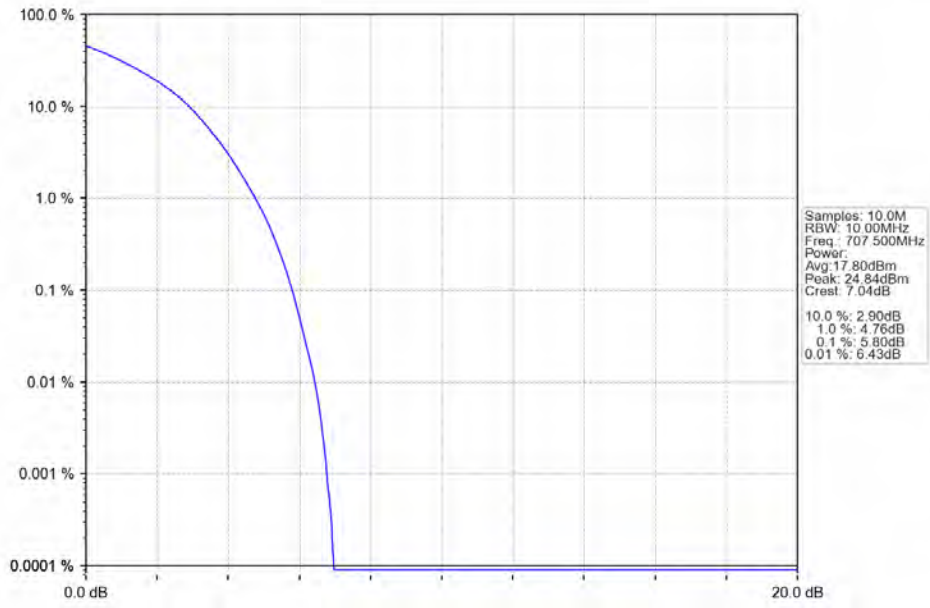
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



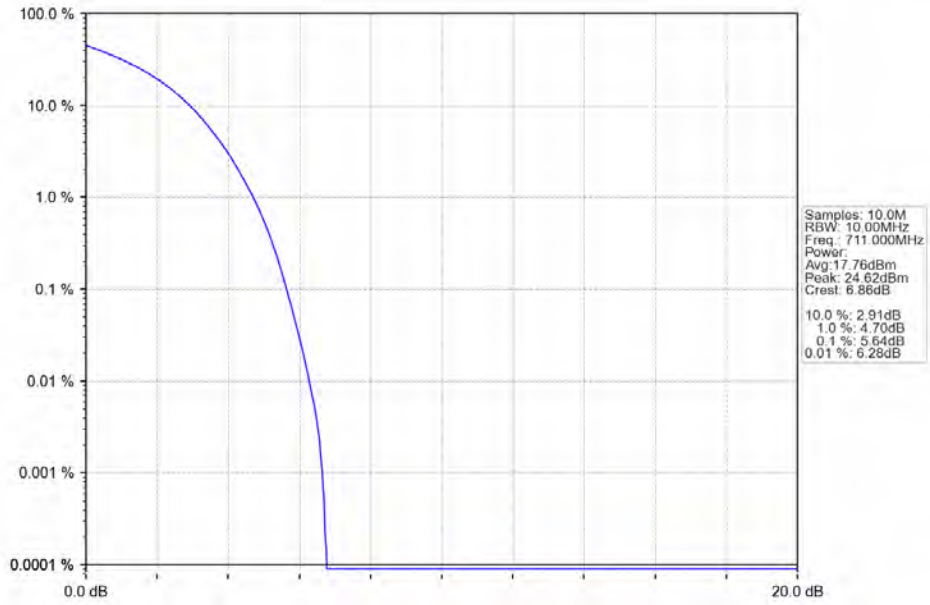
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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



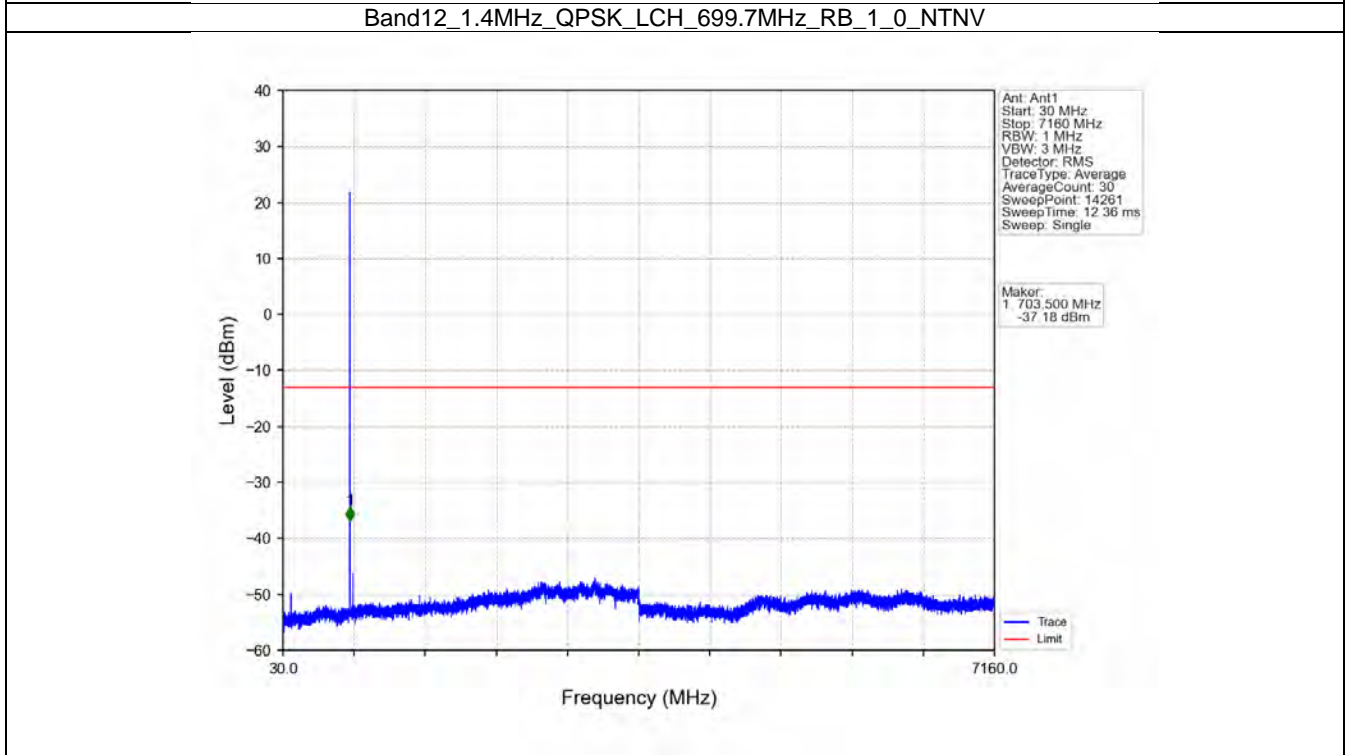
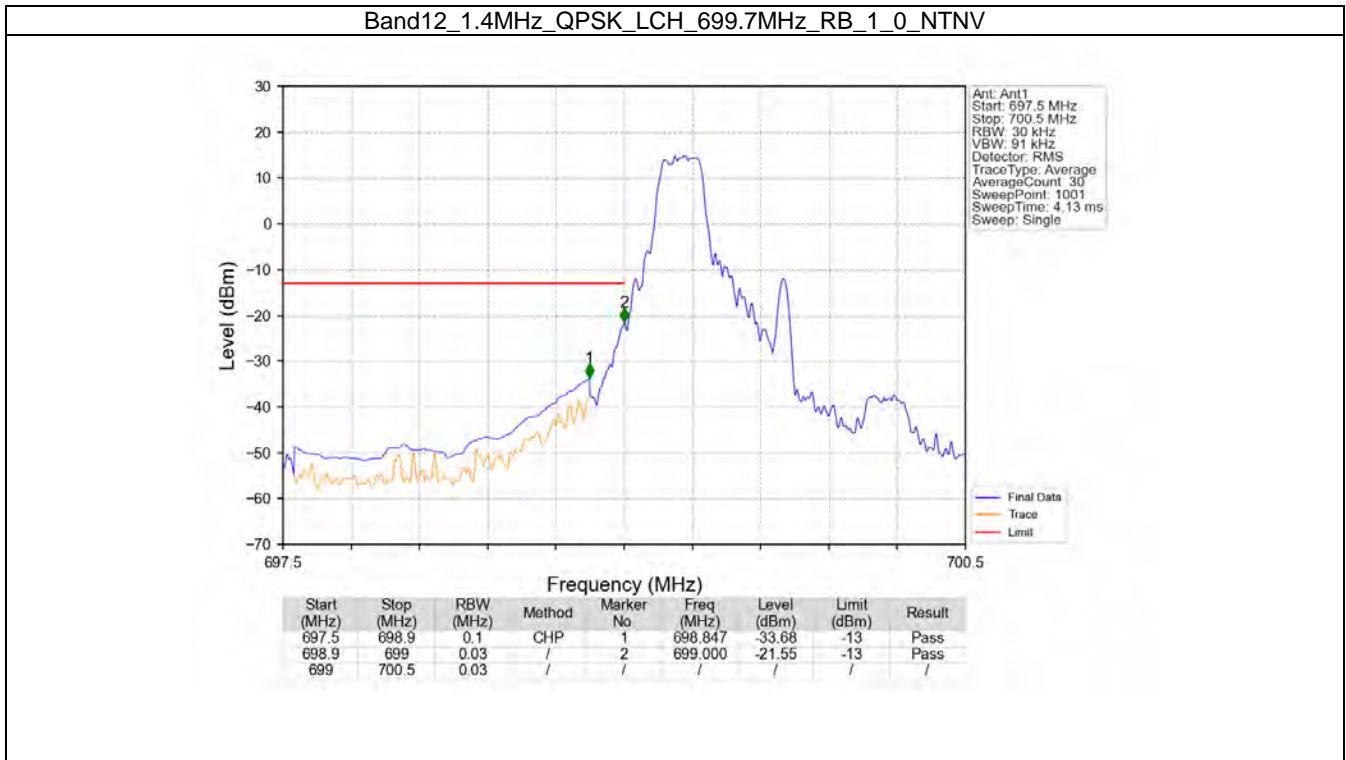
## 6. Spurious Emission

### 6.1 B12\_1.4MHz

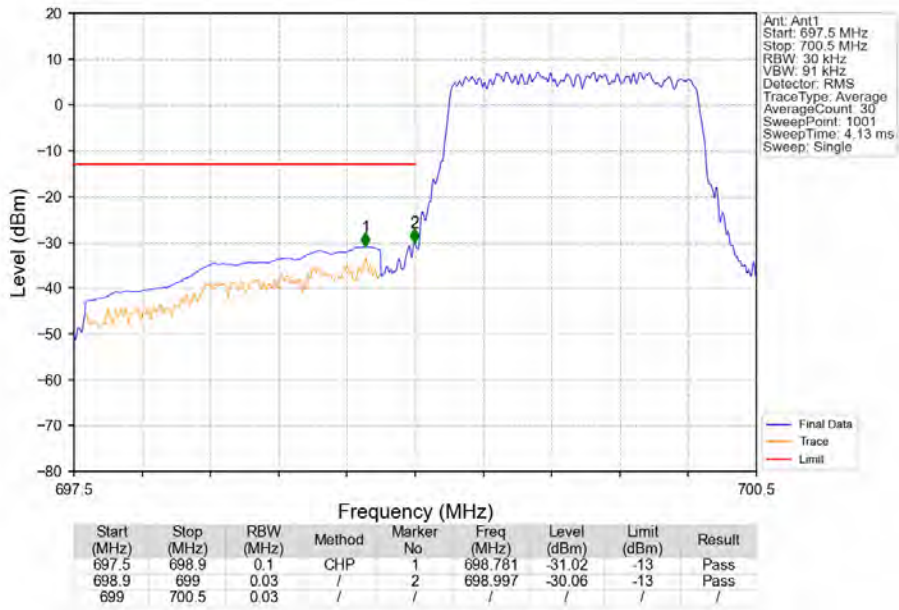
#### 6.1.1 Test Result

| Band: 12 / Bandwidth: 1.4MHz / NTN |                 |               |        |                     |                     |         |
|------------------------------------|-----------------|---------------|--------|---------------------|---------------------|---------|
| 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 |         |
|                                    |                 |               |        | 5                   | Refer To Test Graph |         |
|                                    |                 |               | 6      | 0                   | Refer To Test Graph |         |
| 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 |         |
|                                    |                 |               |        | 5                   | Refer To Test Graph |         |
|                                    |                 |               | 6      | 0                   | Refer To Test Graph |         |

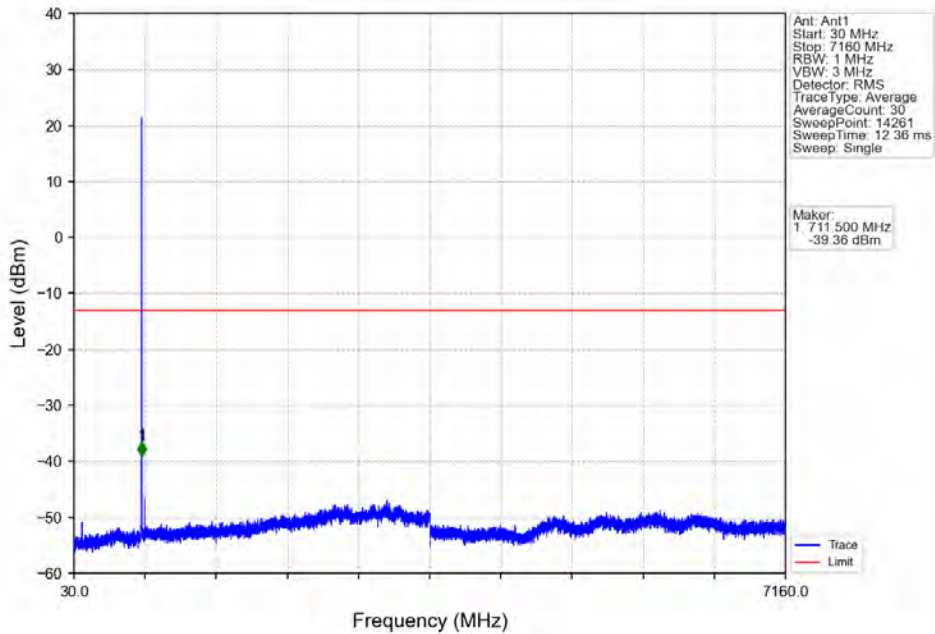
### 6.1.2 Test Graph



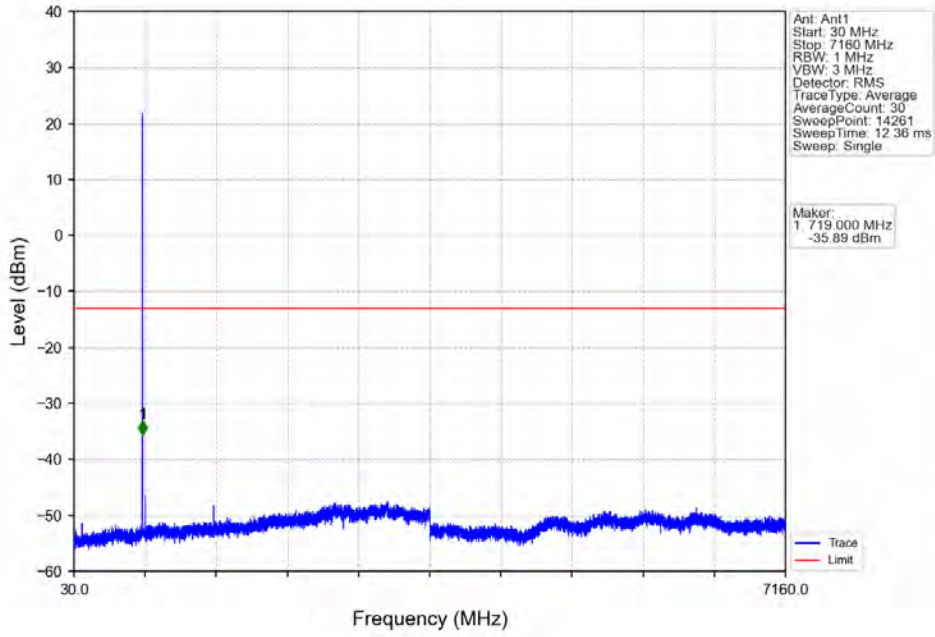
Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



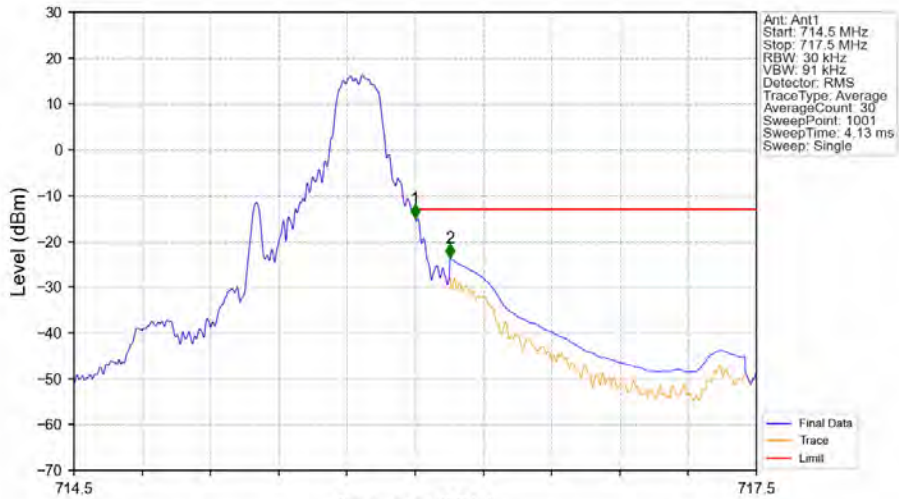
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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

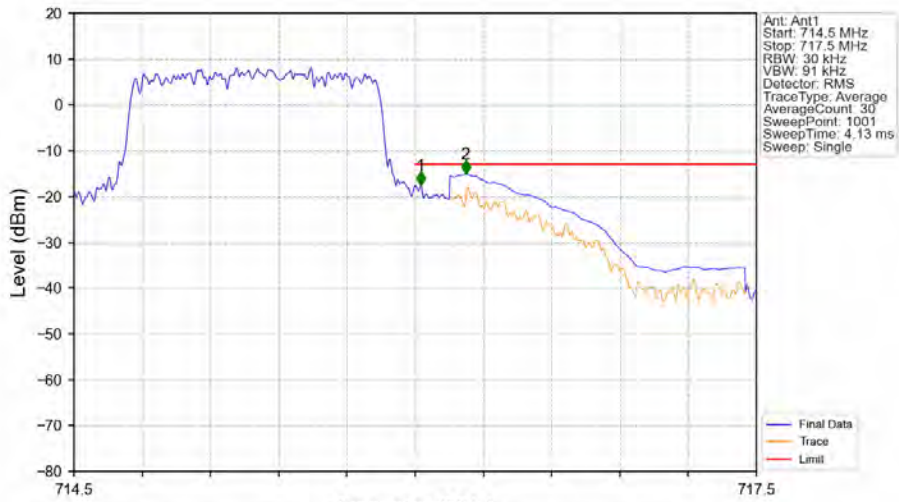


Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



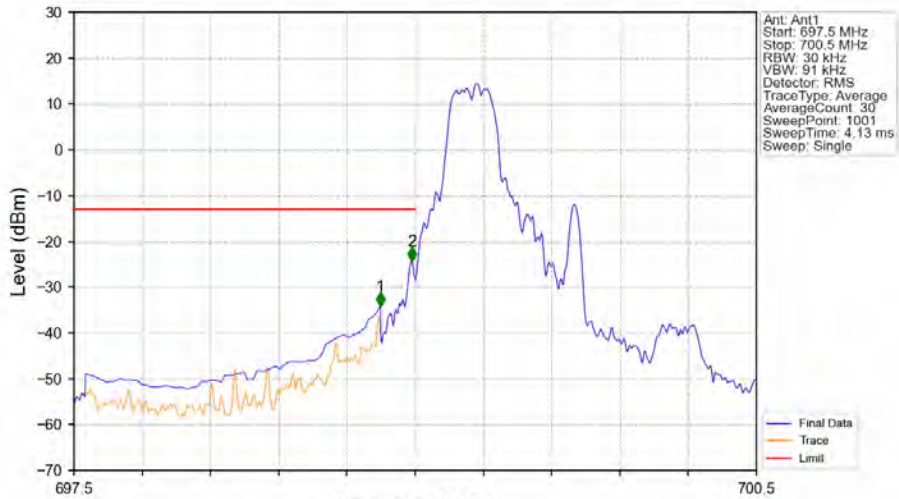
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 714.5       | 716        | 0.03      | /      | 1         | 716.000    | -14.93      | -13         | Pass   |
| 716         | 716.1      | 0.03      | CHP    | 2         | 716.153    | -23.67      | -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 |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 714.5       | 716        | 0.03      | /      | 1         | 716.024    | -17.52      | -13         | Pass   |
| 716.1       | 717.5      | 0.1       | CHP    | 2         | 716.222    | -15.09      | -13         | Pass   |

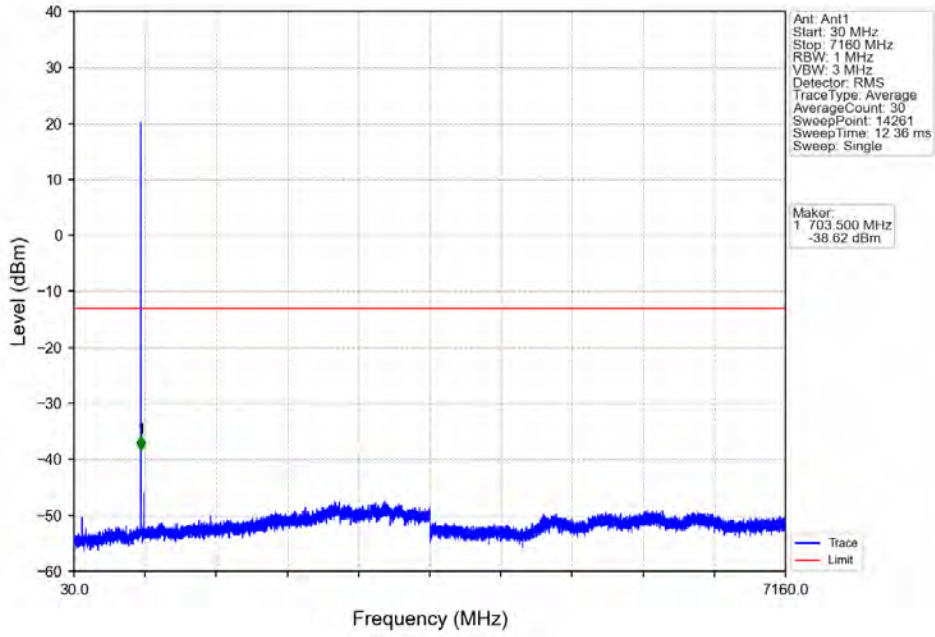
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



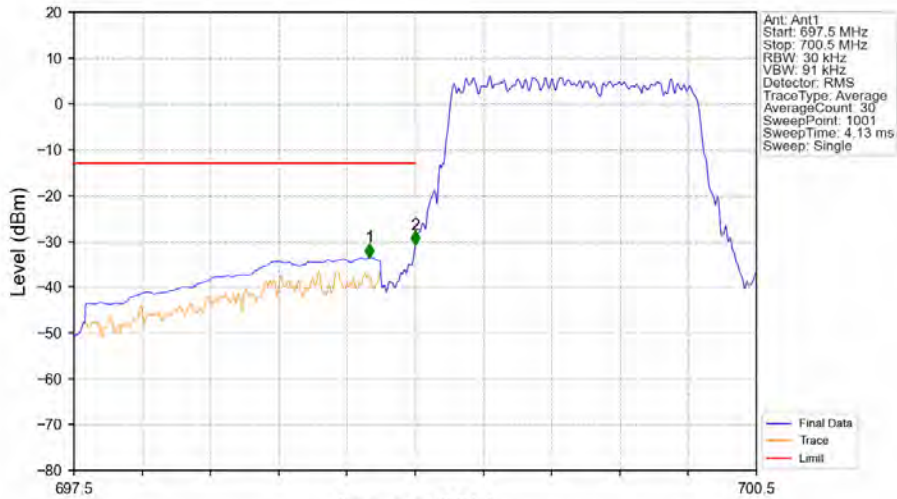
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 697.5       | 698.9      | 0.1       | CHP    | 1         | 698.847    | -34.20      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2         | 698.985    | -24.35      | -13         | Pass   |
| 699         | 700.5      | 0.03      | /      | /         | /          | /           | /           | /      |



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

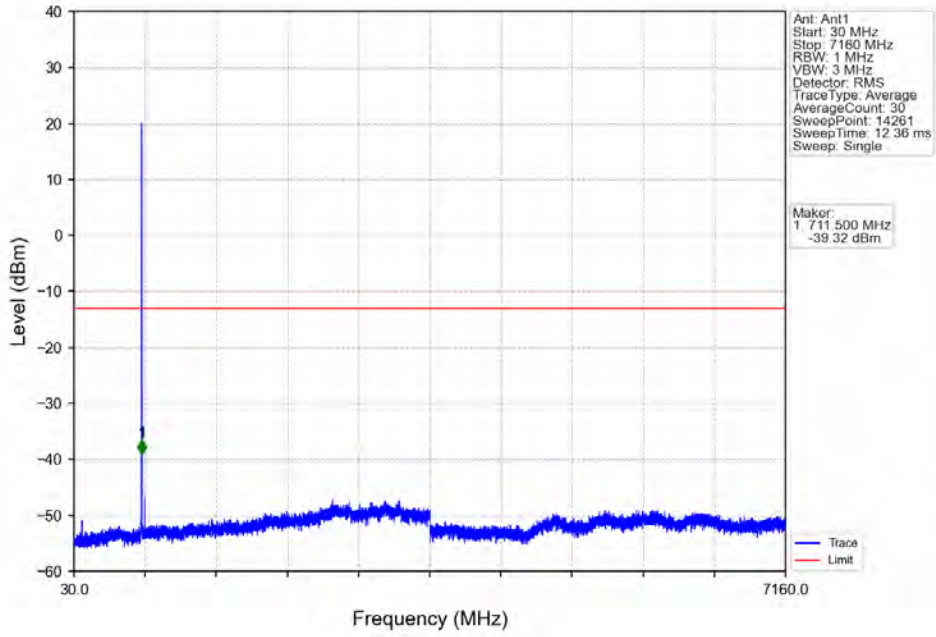


Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

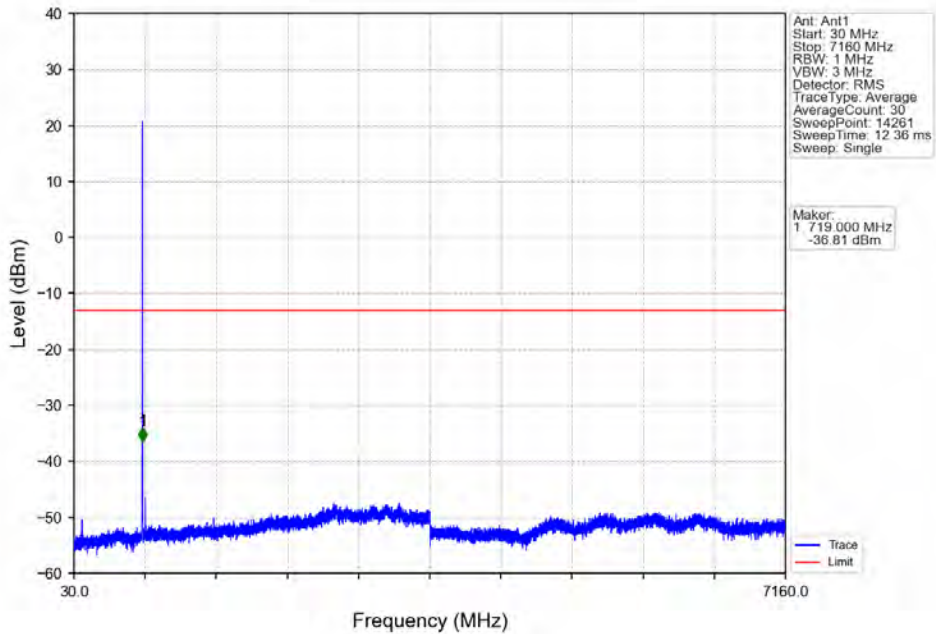


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 697.5       | 698.9      | 0.1       | CHP    | 1         | 698.799    | -33.55      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2         | 699.000    | -30.82      | -13         | Pass   |
| 699         | 700.5      | 0.03      | /      | /         | /          | /           | /           | /      |

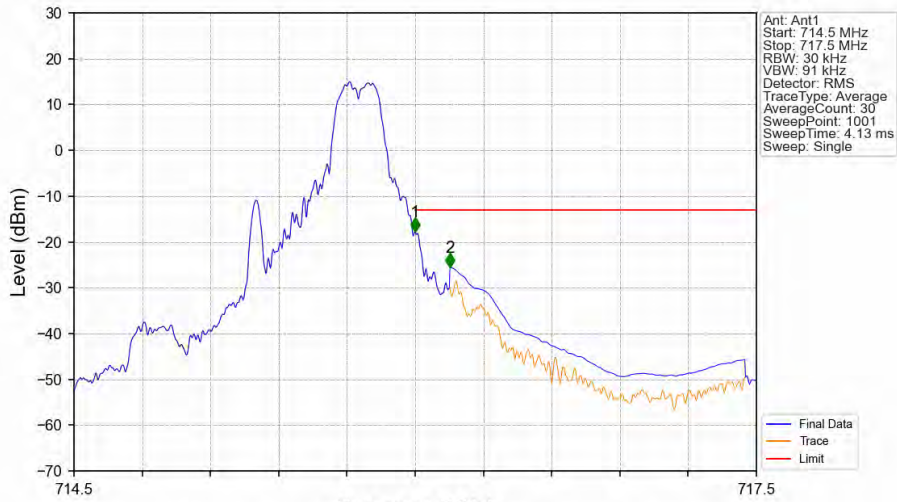
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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

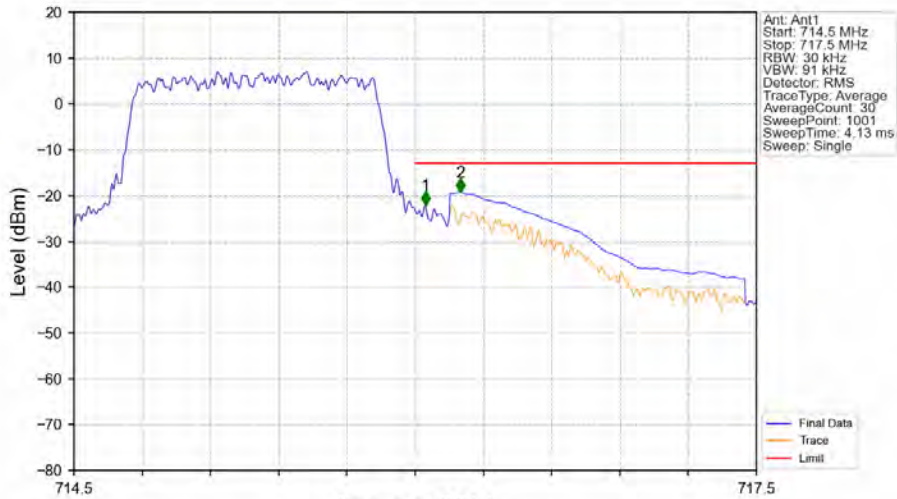


Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 714.5       | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.000    | -17.85      | -13         | Pass   |
| 716.1       | 717.5      | 0.1       | CHP    | 2          | 716.153    | -25.56      | -13         | Pass   |

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



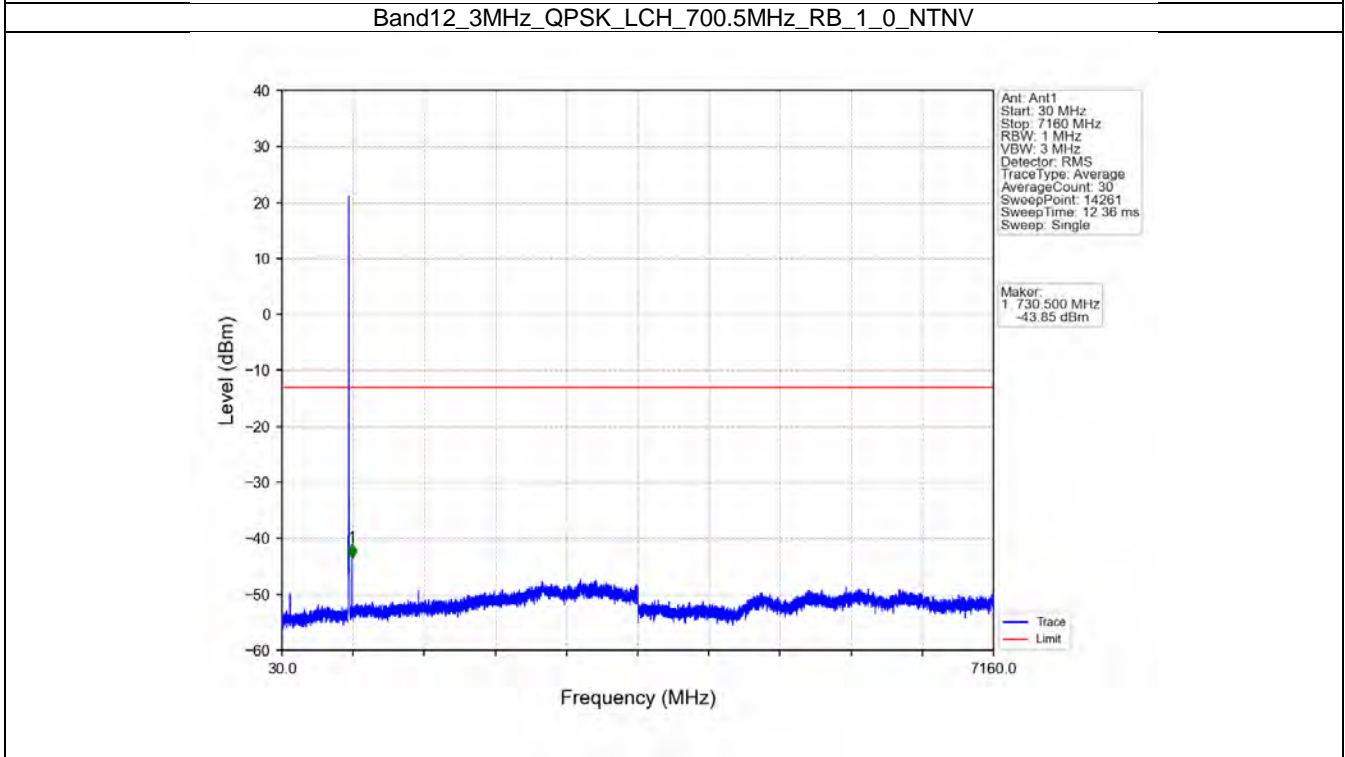
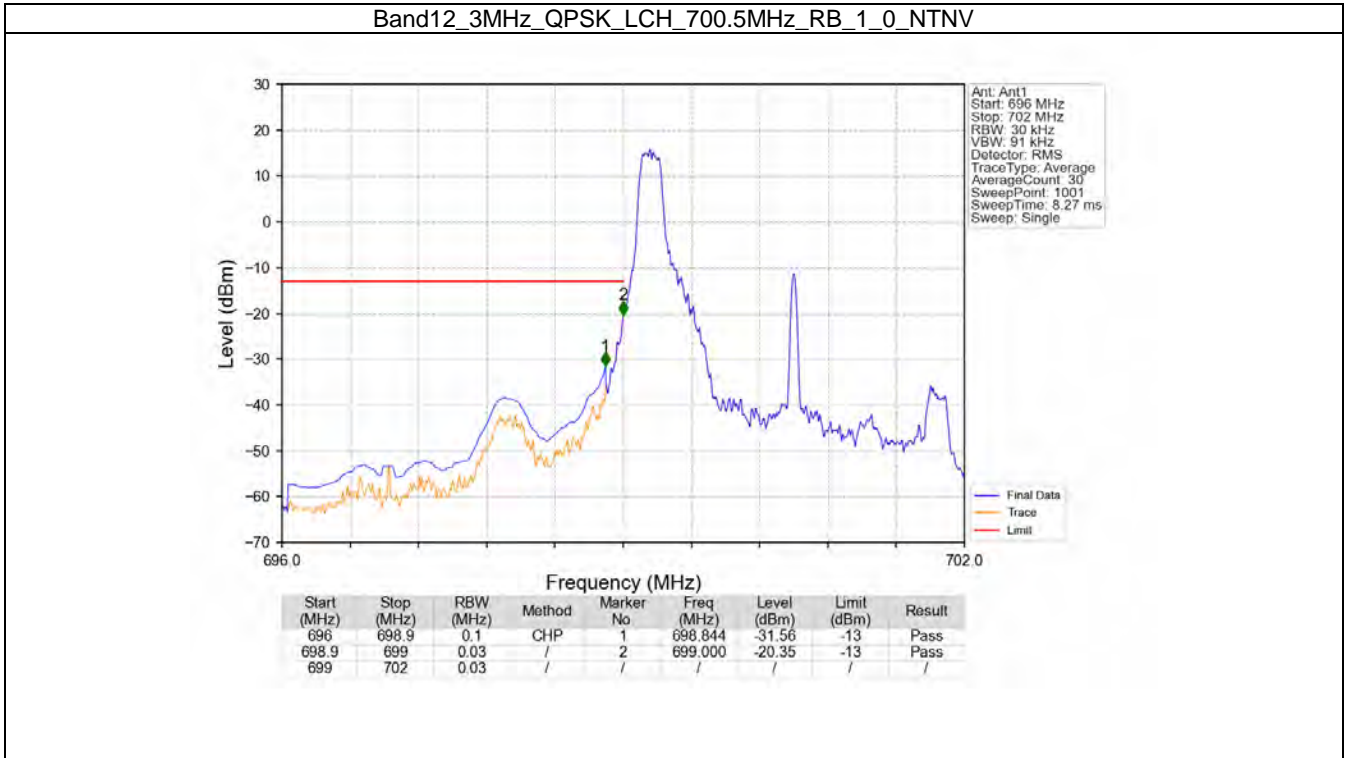
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 714.5       | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.045    | -22.14      | -13         | Pass   |
| 716.1       | 717.5      | 0.1       | CHP    | 2          | 716.198    | -19.31      | -13         | Pass   |

## 6.2 B12\_3MHz

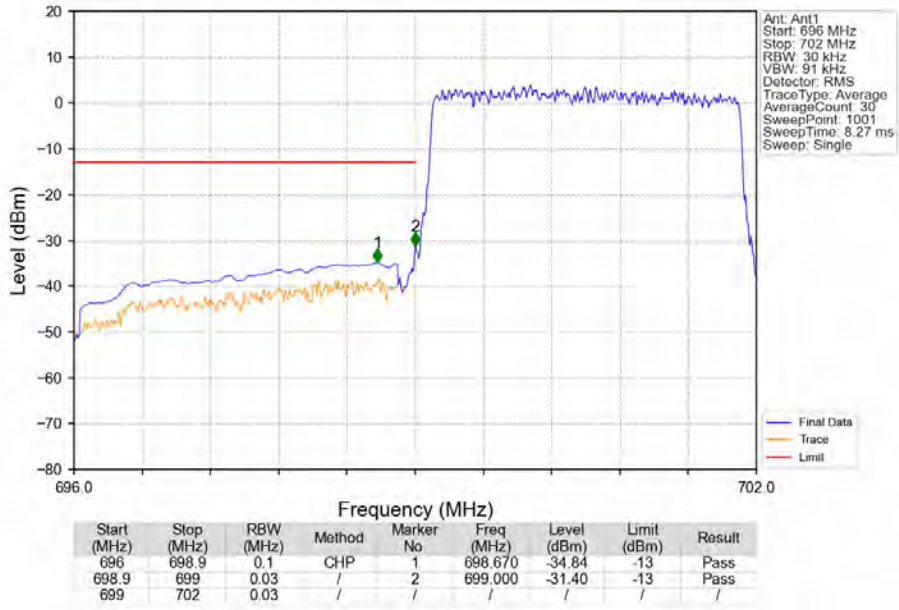
### 6.2.1 Test Result

| Band: 12 / Bandwidth: 3MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| 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    |
|                                  | 714.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 1             | 14     | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | 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    |
|                                  | 714.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 1             | 14     | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |

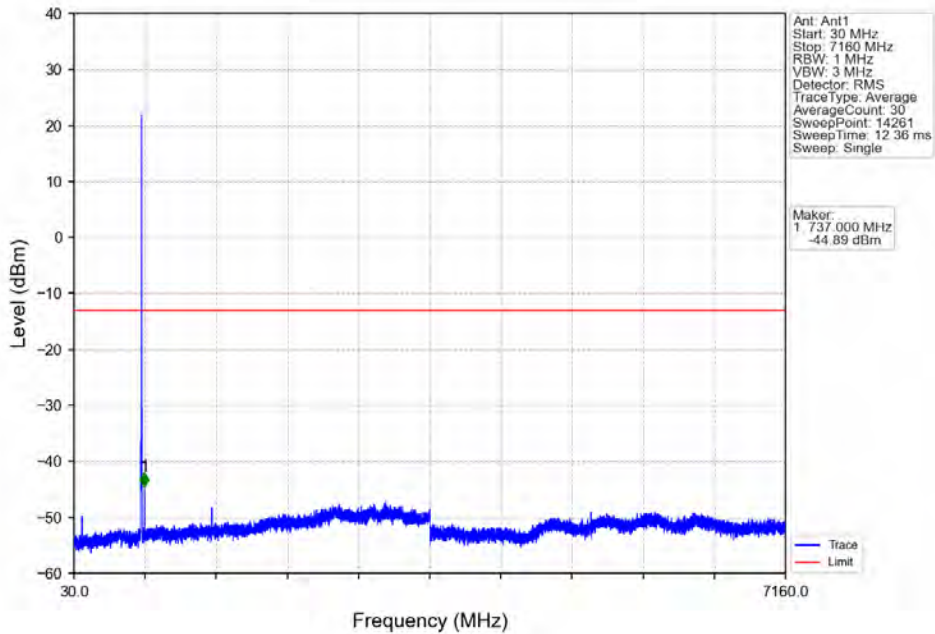
### 6.2.2 Test Graph



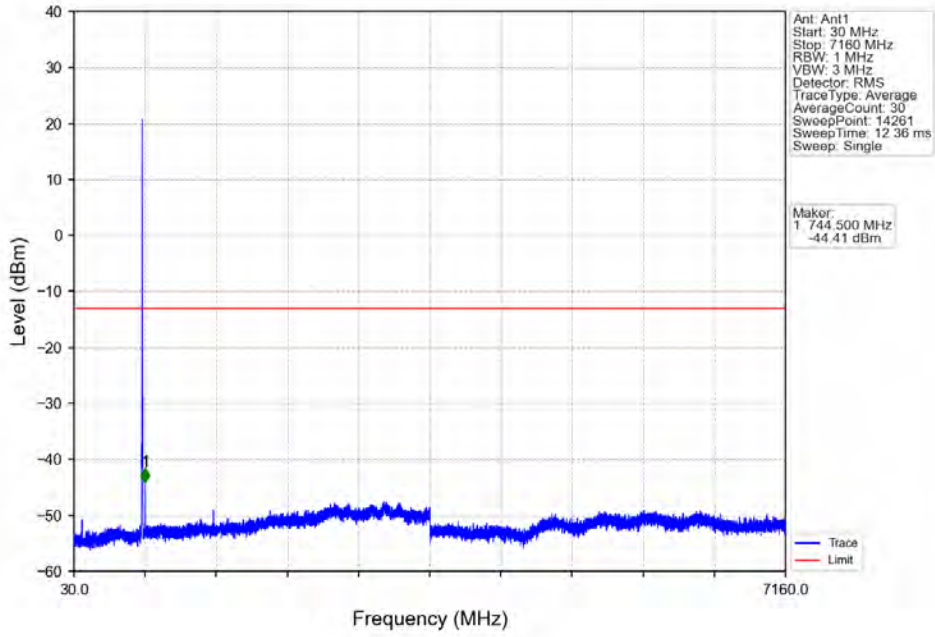
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



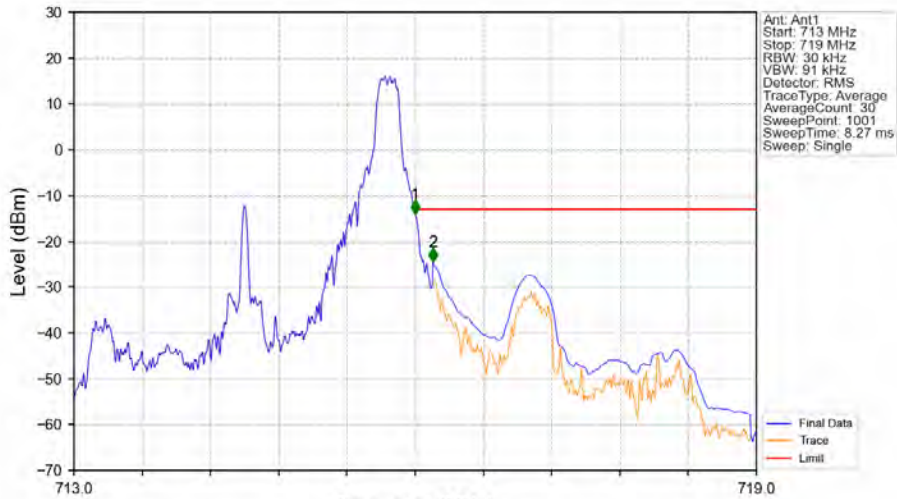
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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

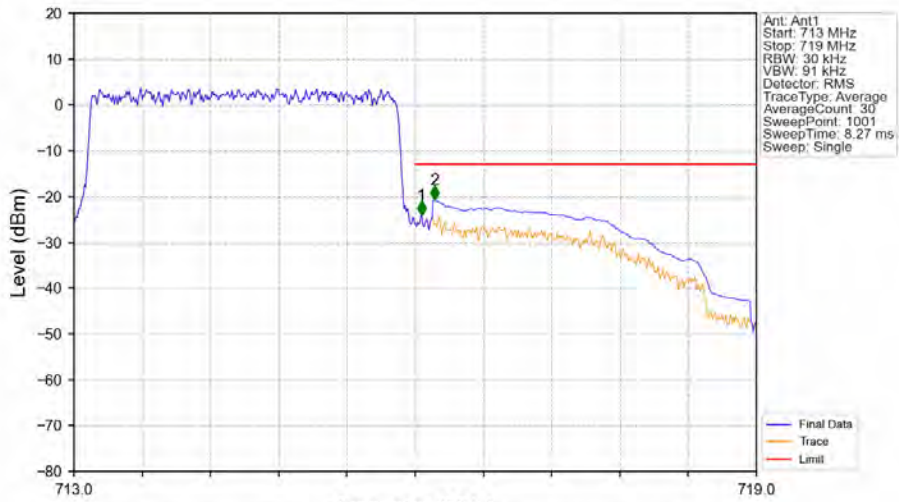


Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



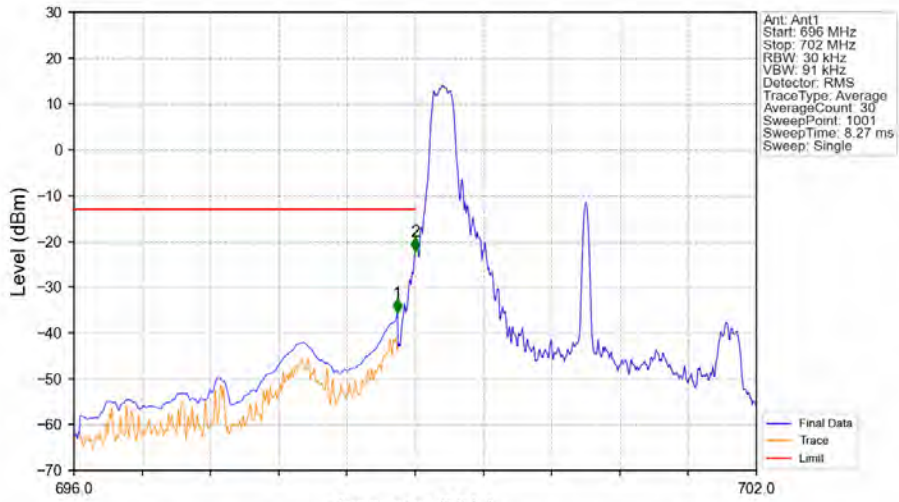
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /         | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1         | 716.000    | -14.08      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2         | 716.156    | -24.56      | -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      | /      | 1         | 716.054    | -24.05      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2         | 716.168    | -20.77      | -13         | Pass   |

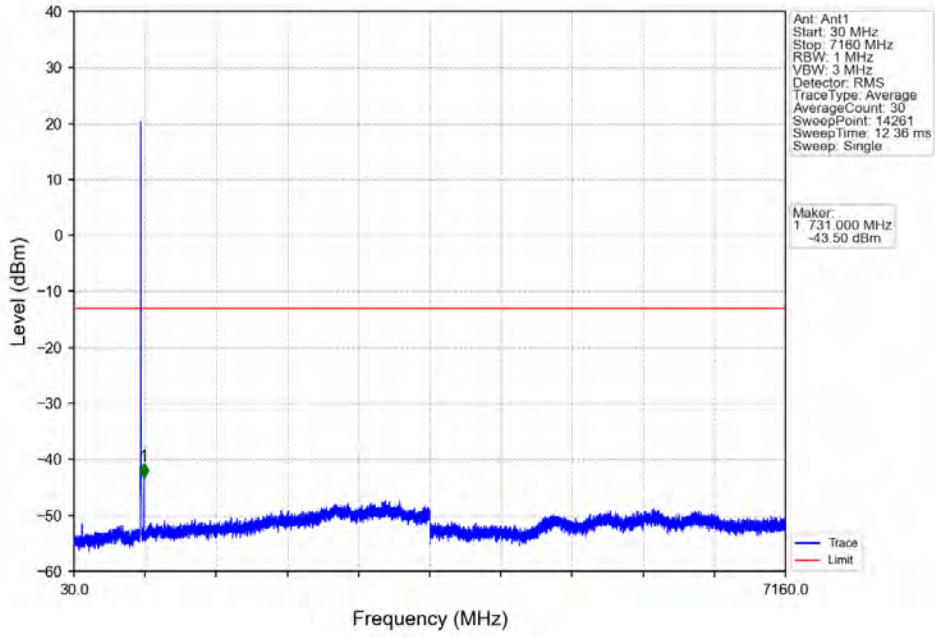
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



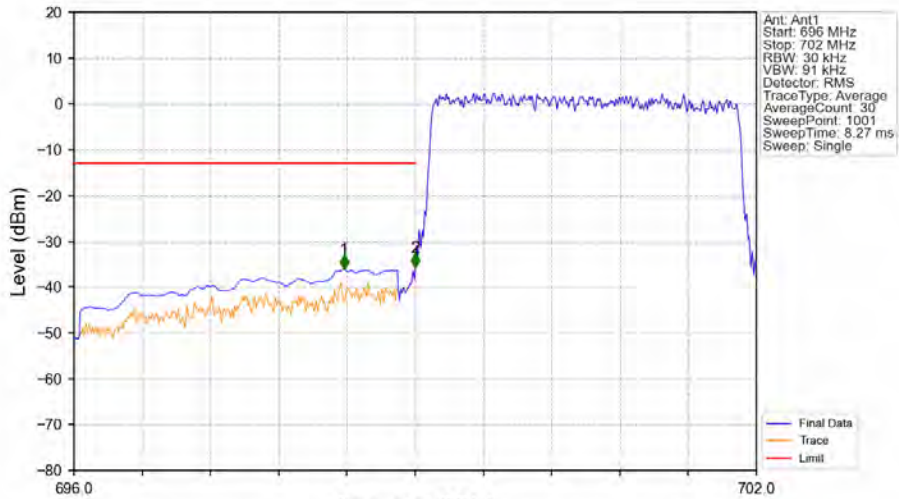
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1         | 698.844    | -35.66      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2         | 699.000    | -22.19      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /         | /          | /           | /           | /      |



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

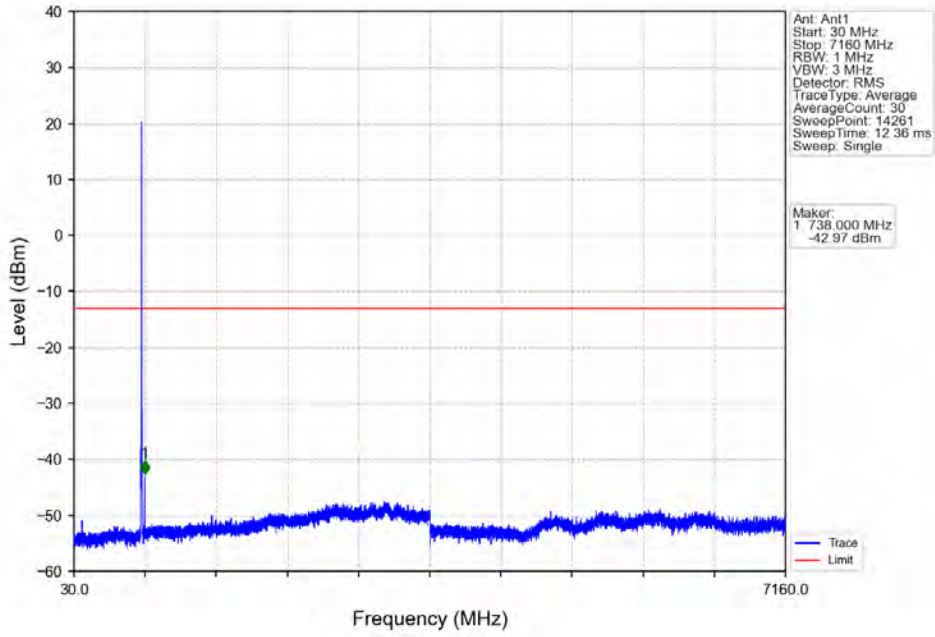


Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

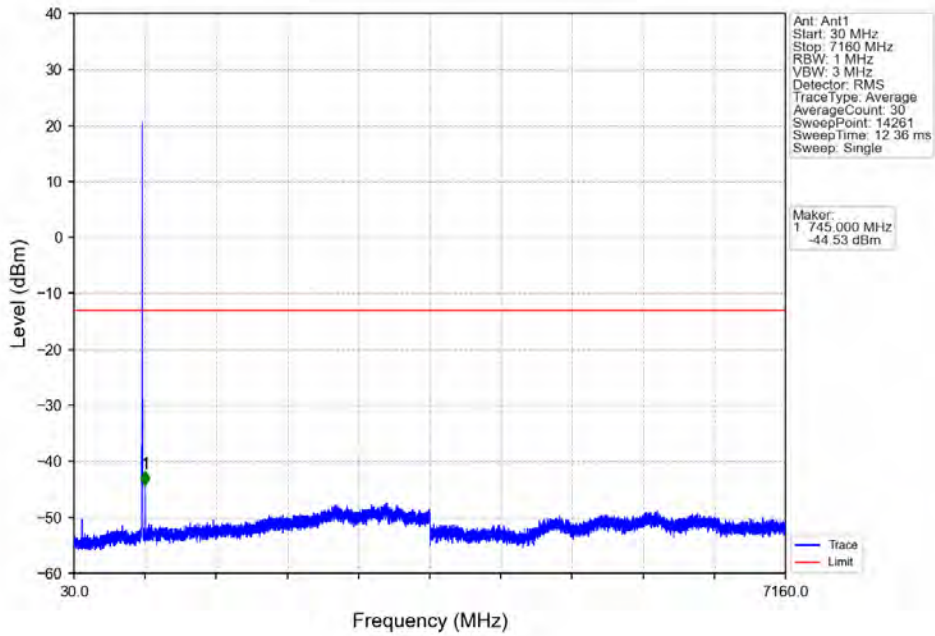


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1         | 698.376    | -36.09      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2         | 699.000    | -35.79      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /         | /          | /           | /           | /      |

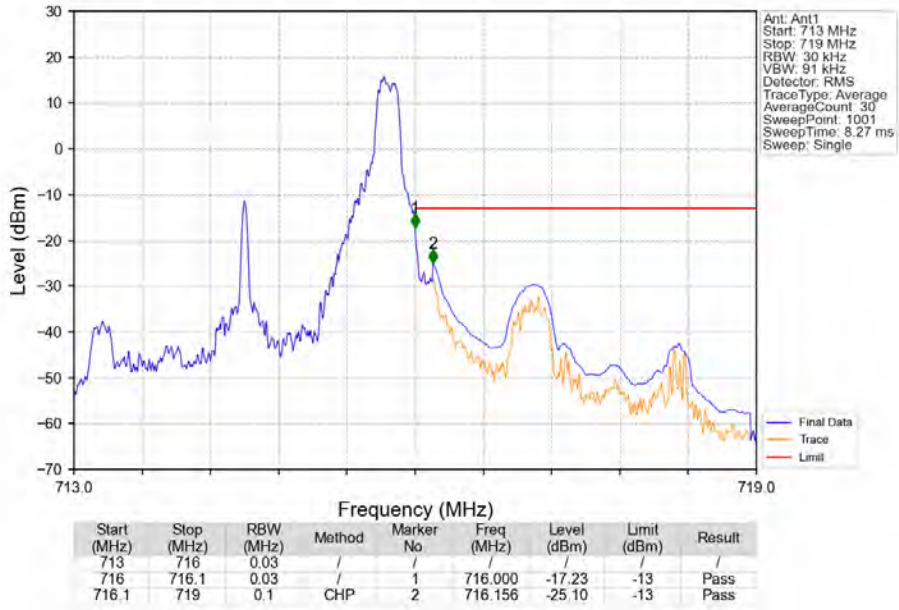
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



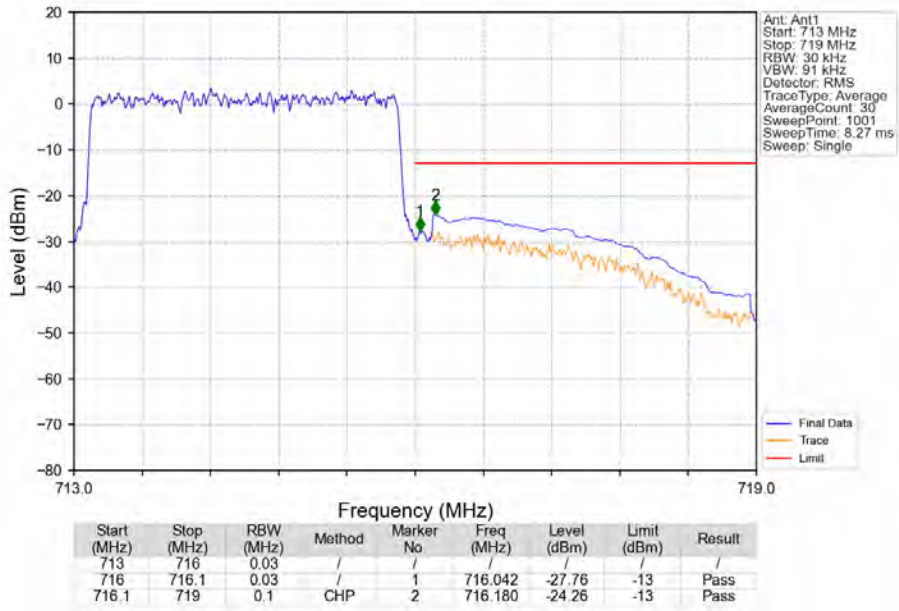
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



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



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

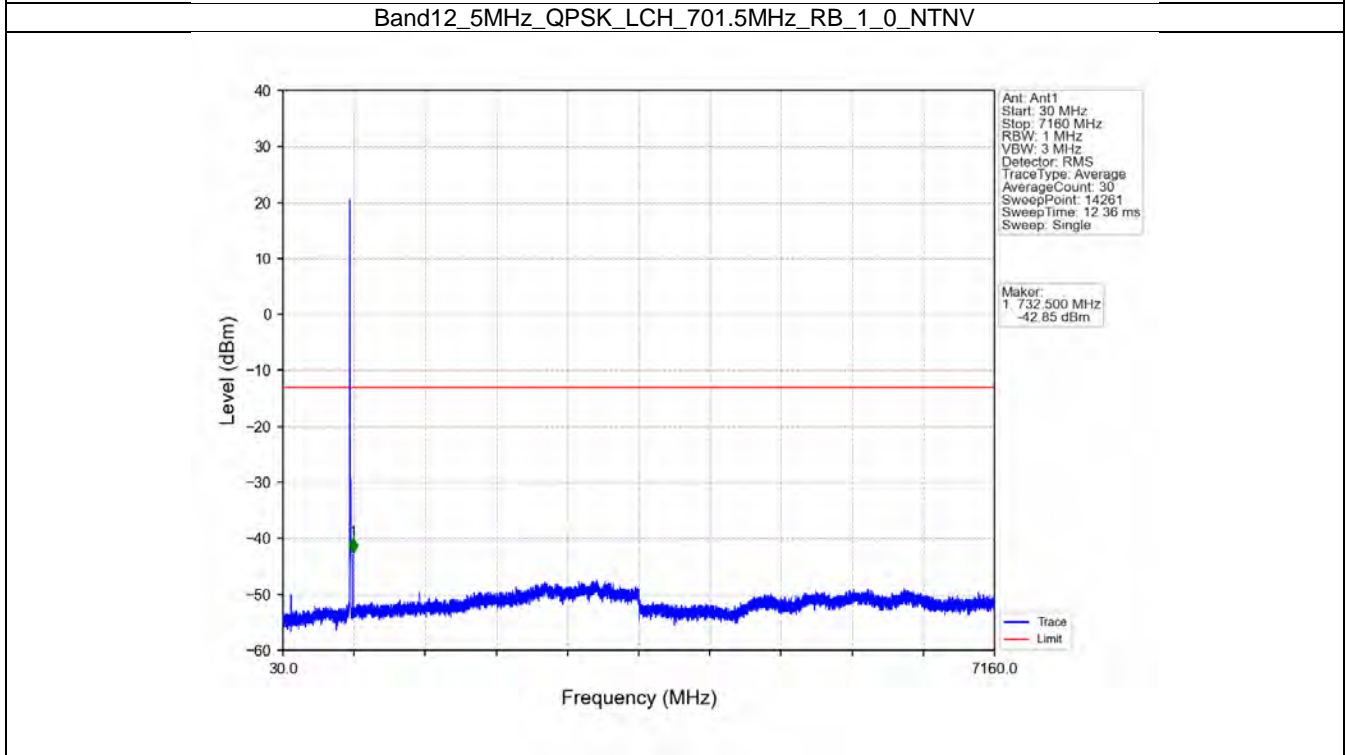
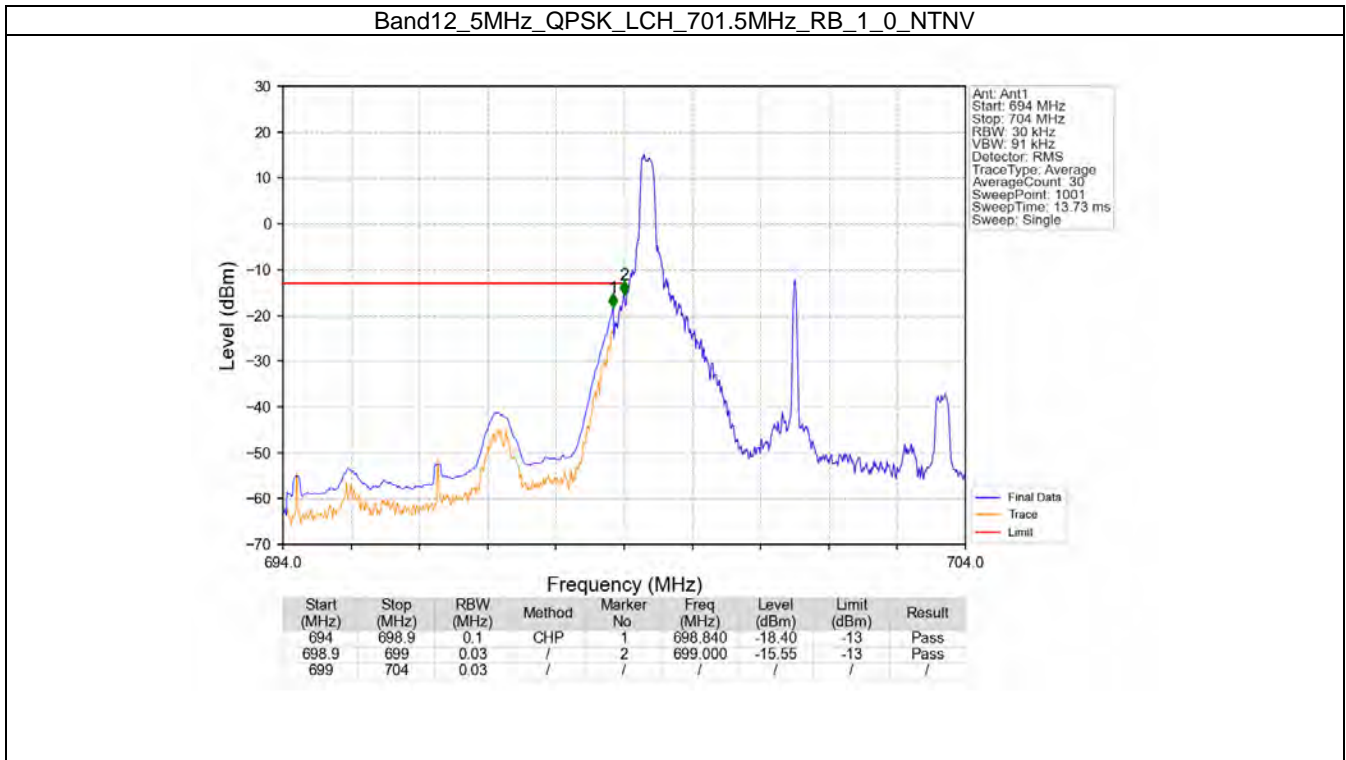


## 6.3 B12\_5MHz

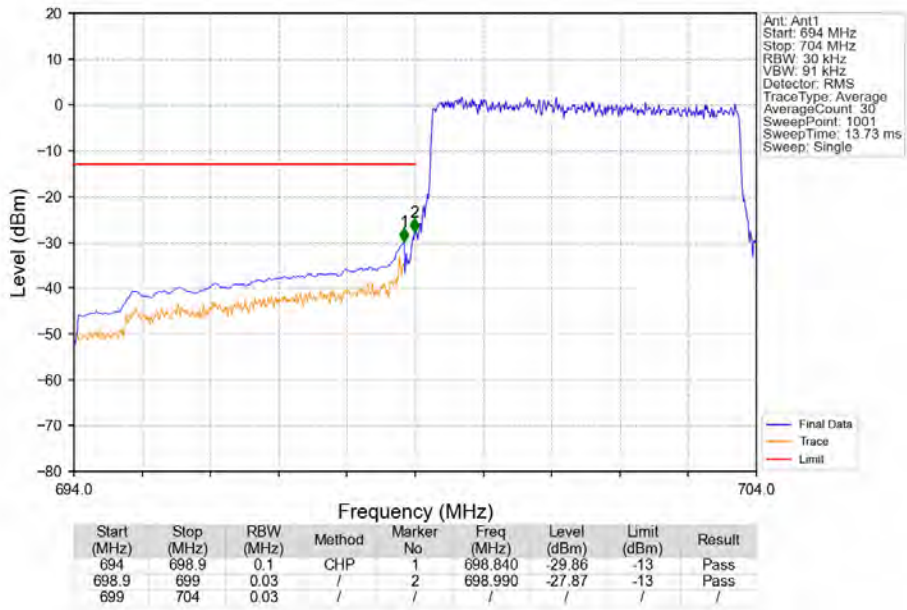
### 6.3.1 Test Result

| 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    |
|                                  | 713.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 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    |
|                                  | 713.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

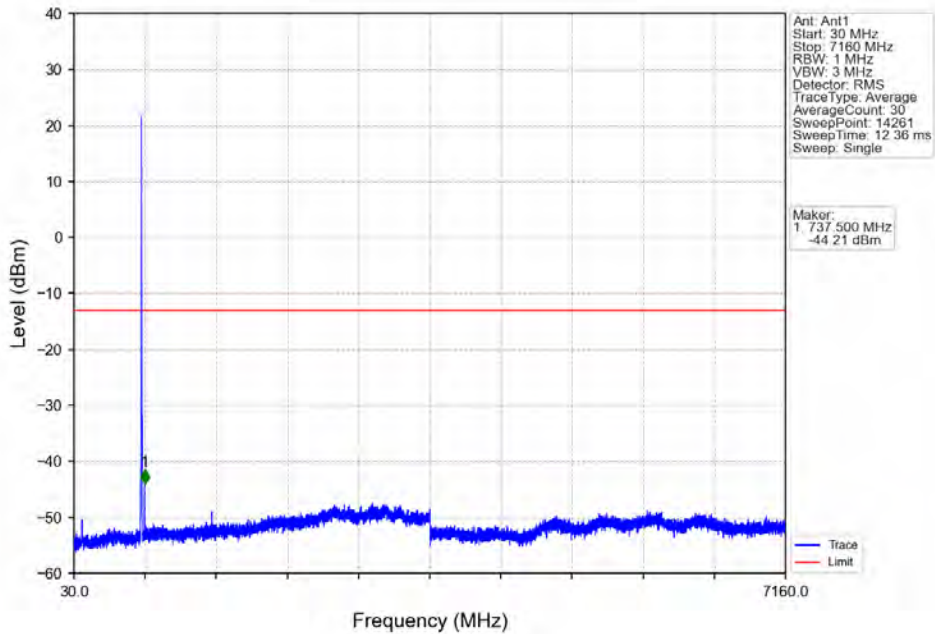
### 6.3.2 Test Graph



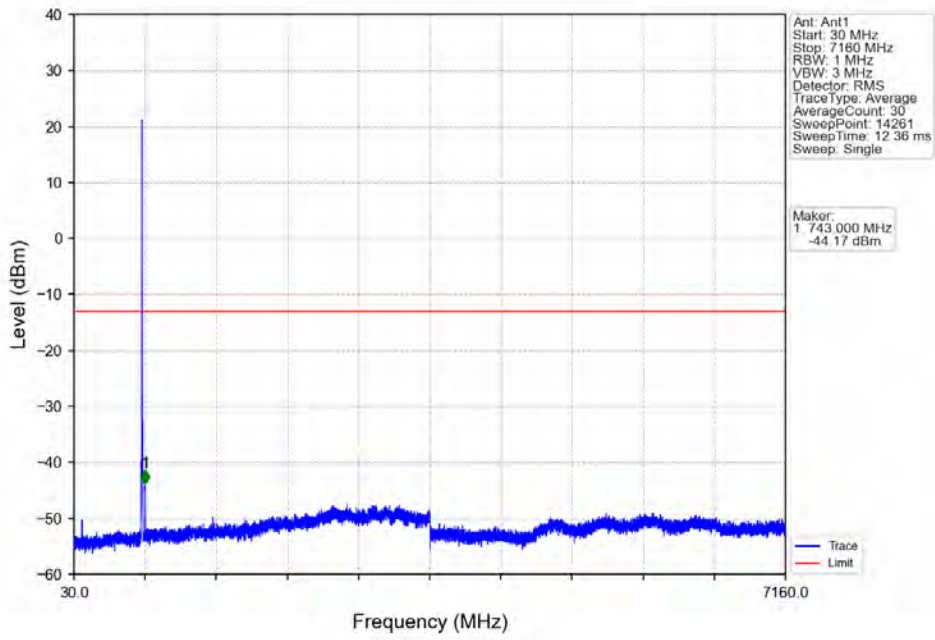
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



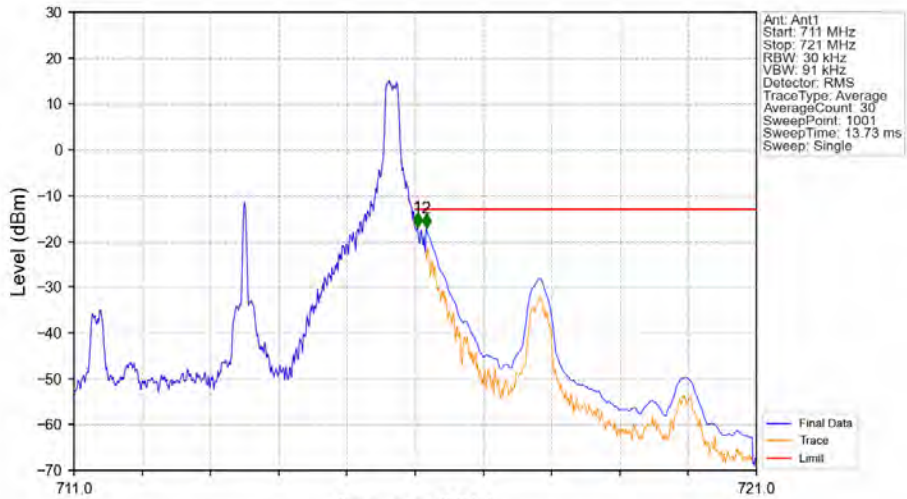
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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

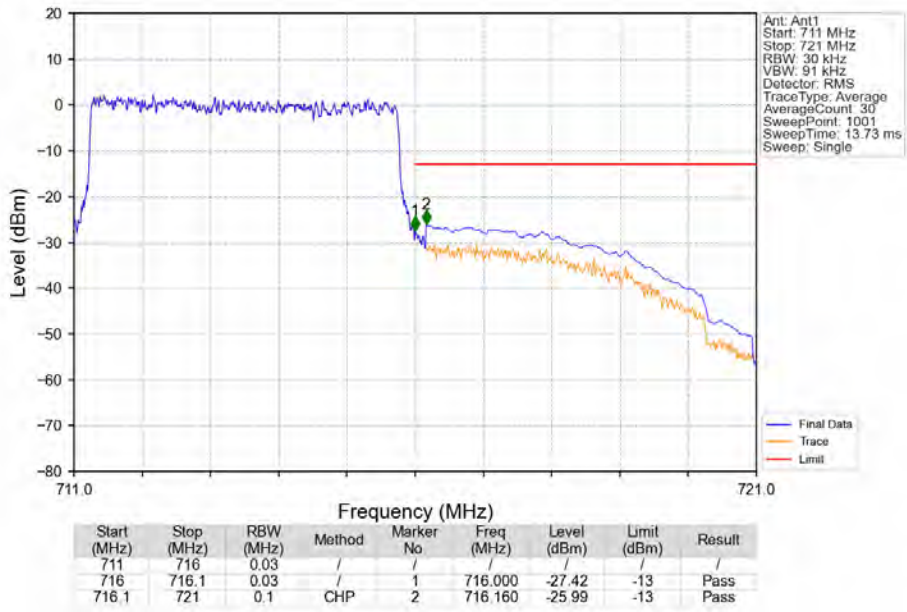


Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV

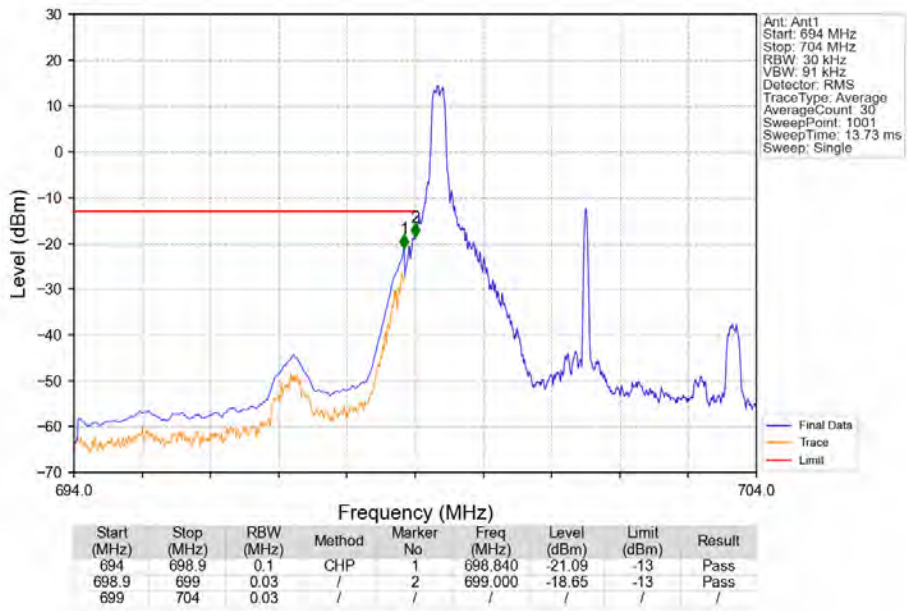


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /         | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1         | 716.030    | -16.86      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2         | 716.160    | -17.06      | -13         | Pass   |

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

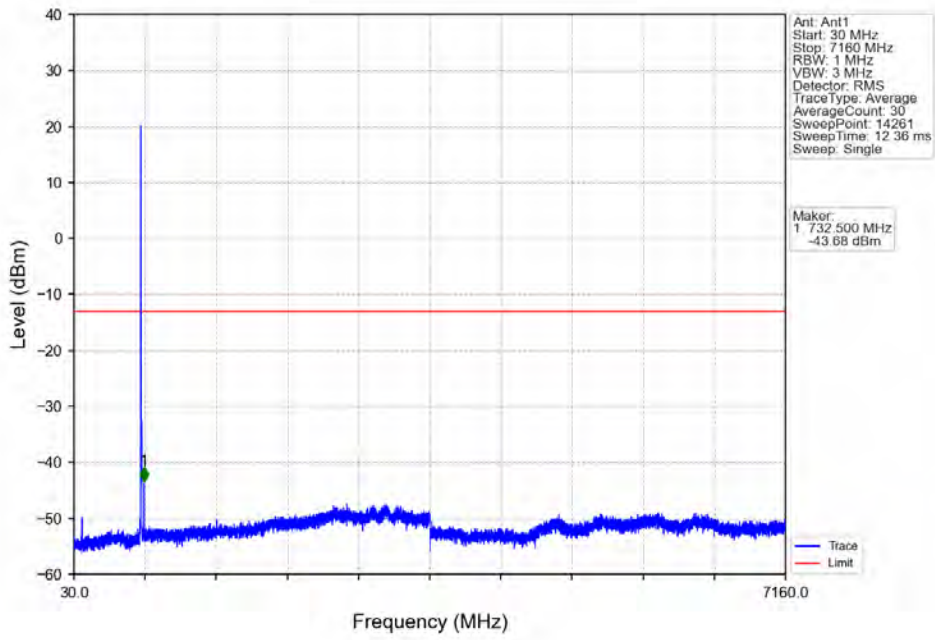


Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV

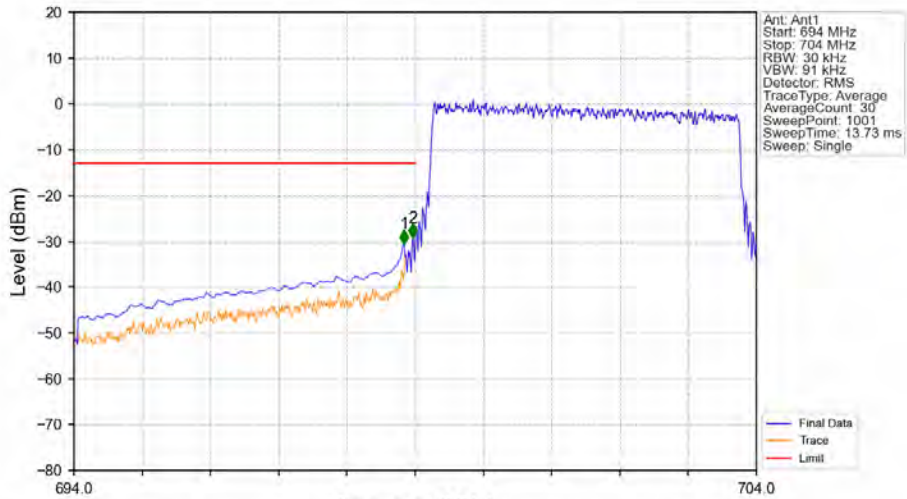




Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV

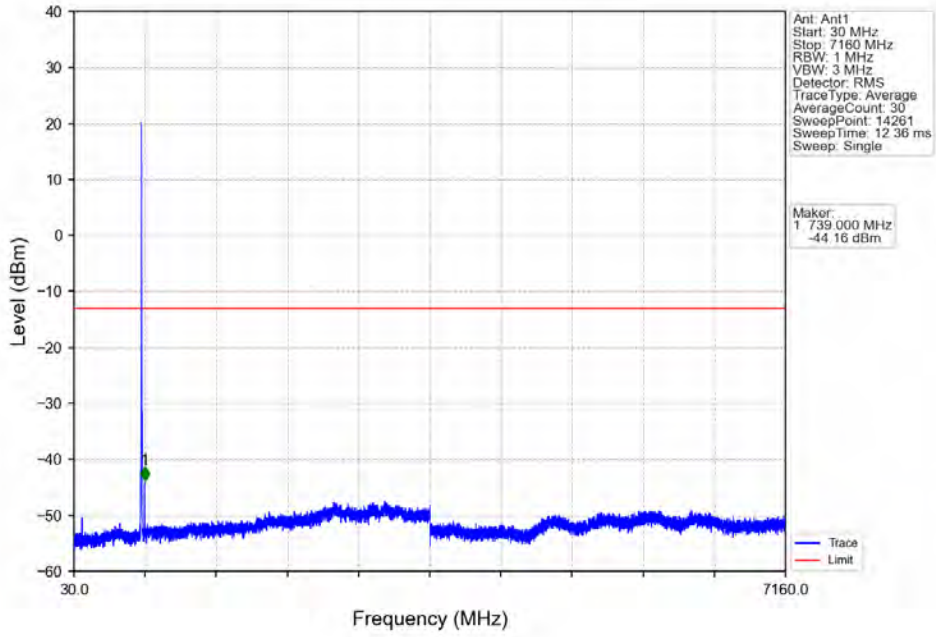


Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

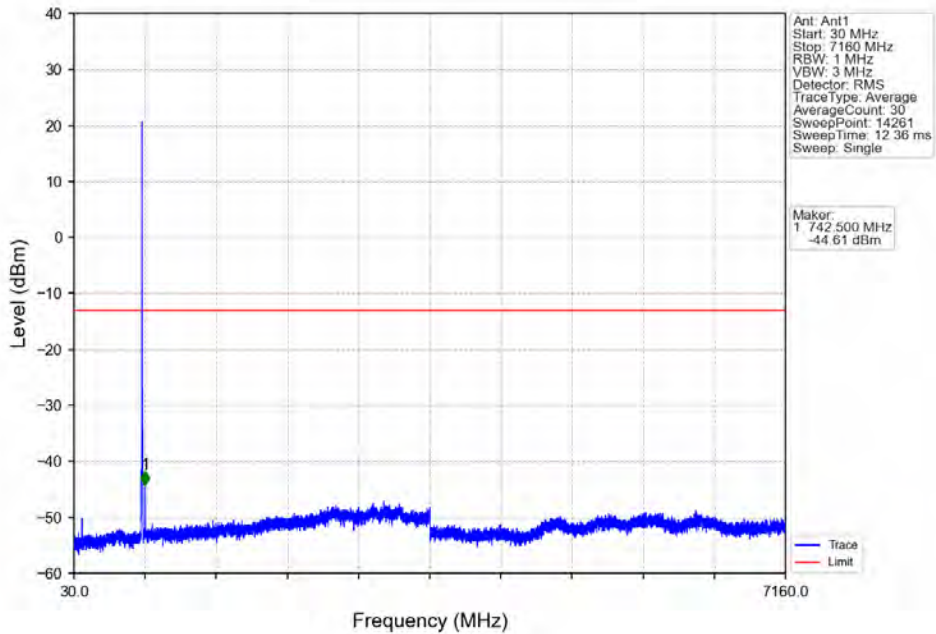


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1         | 698.840    | -30.53      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2         | 698.970    | -29.25      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /         | /          | /           | /           | /      |

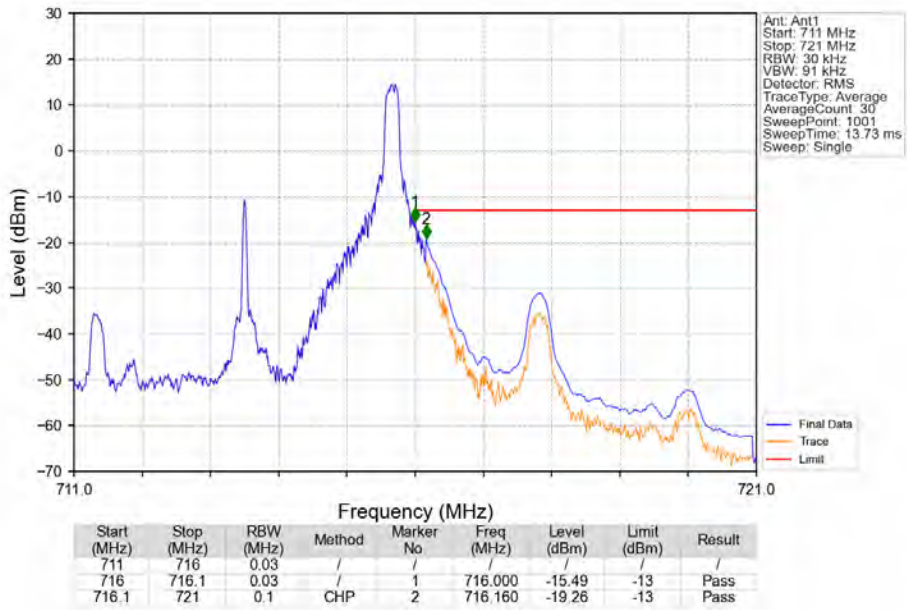
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



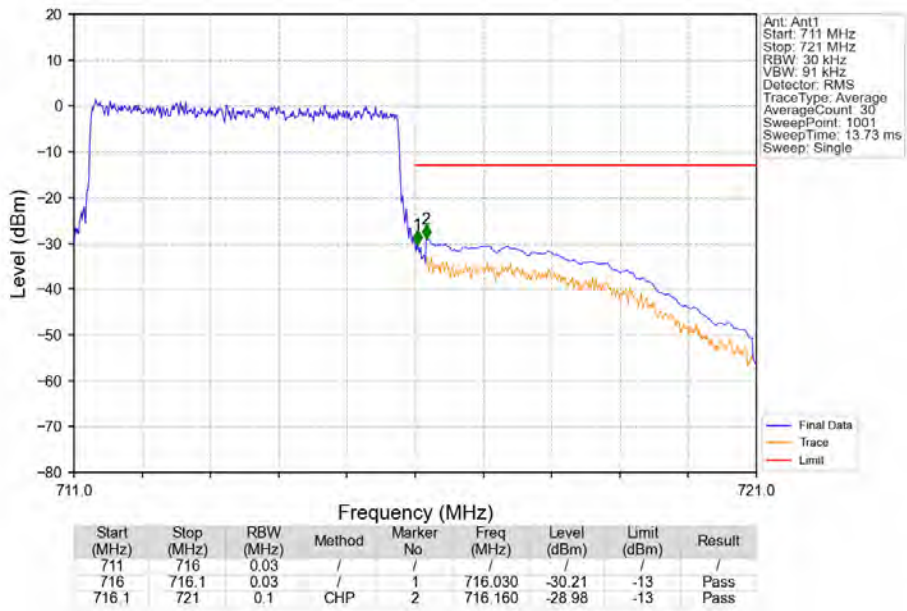
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



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



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

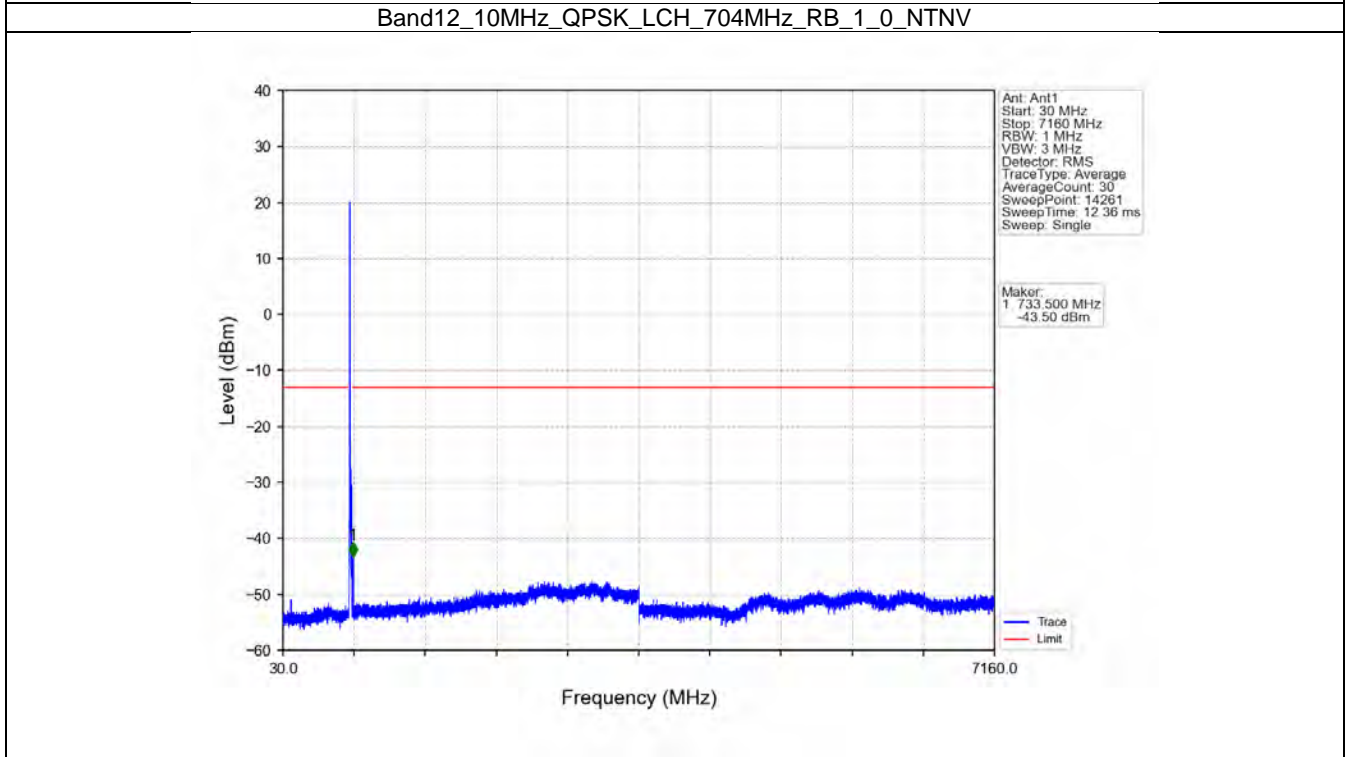
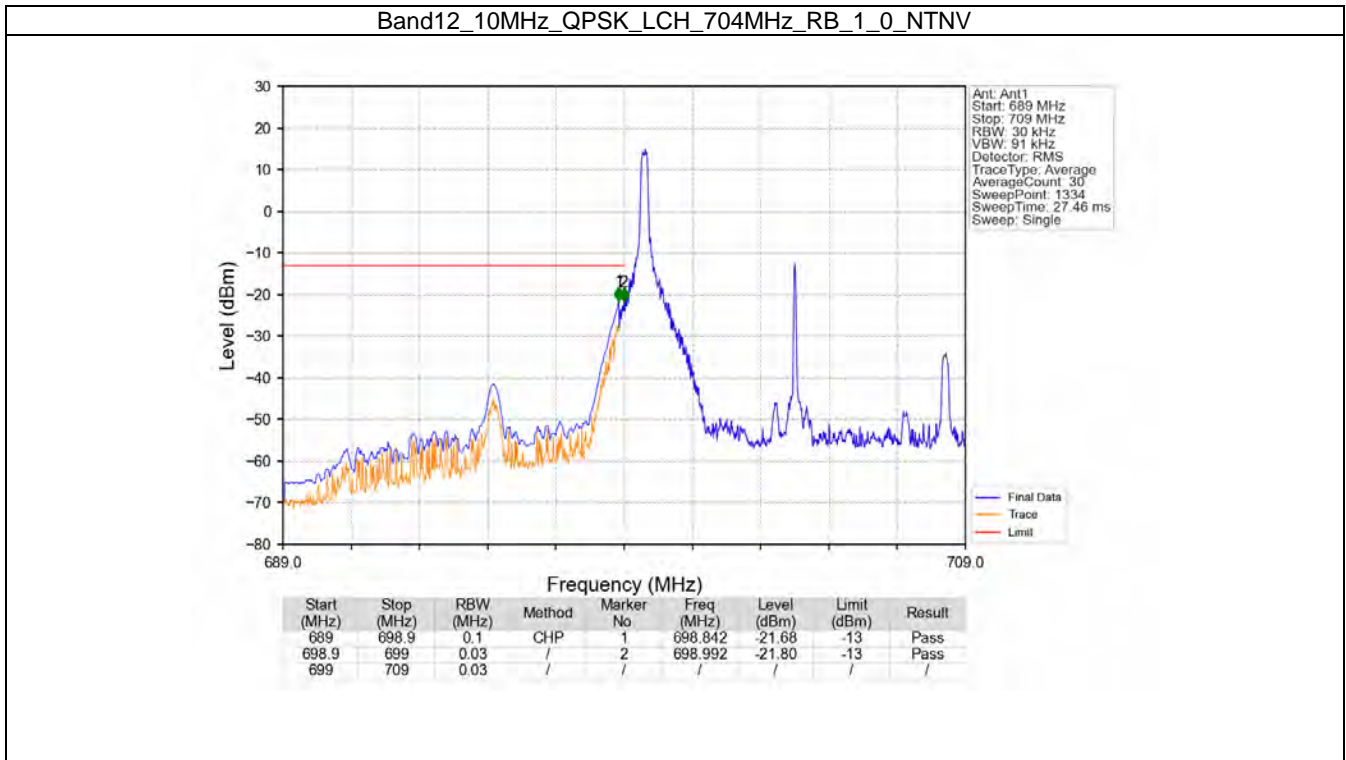


## 6.4 B12\_10MHz

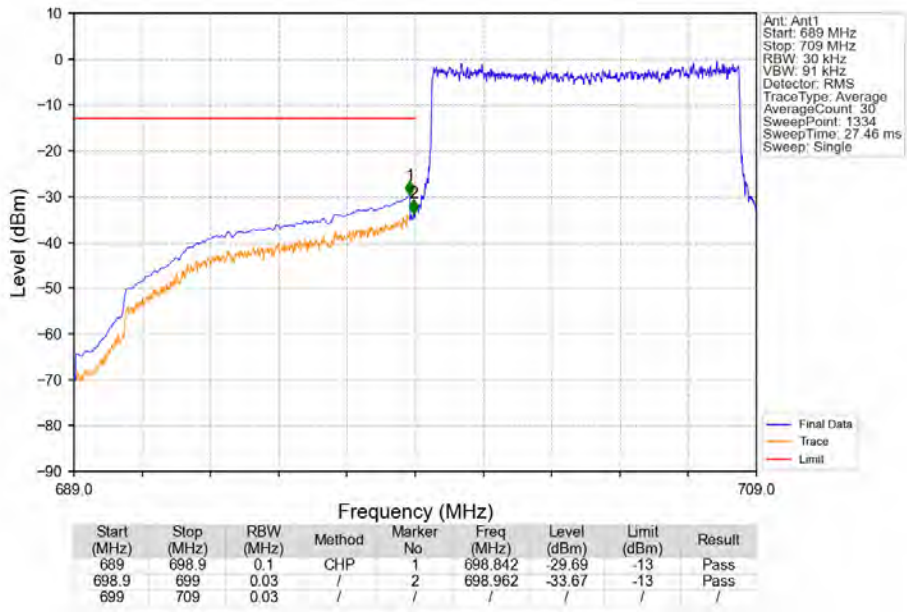
### 6.4.1 Test Result

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

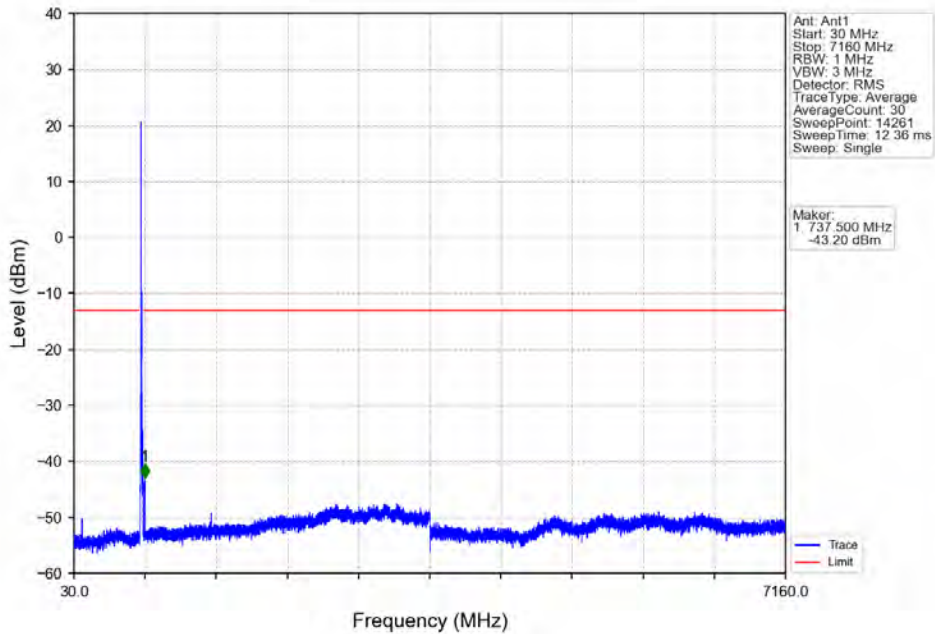
### 6.4.2 Test Graph



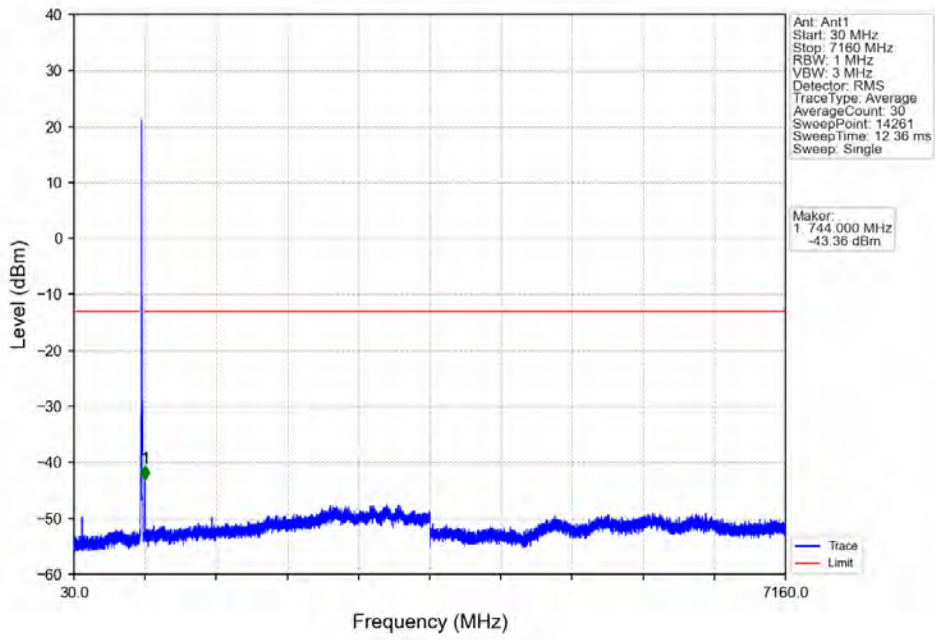
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



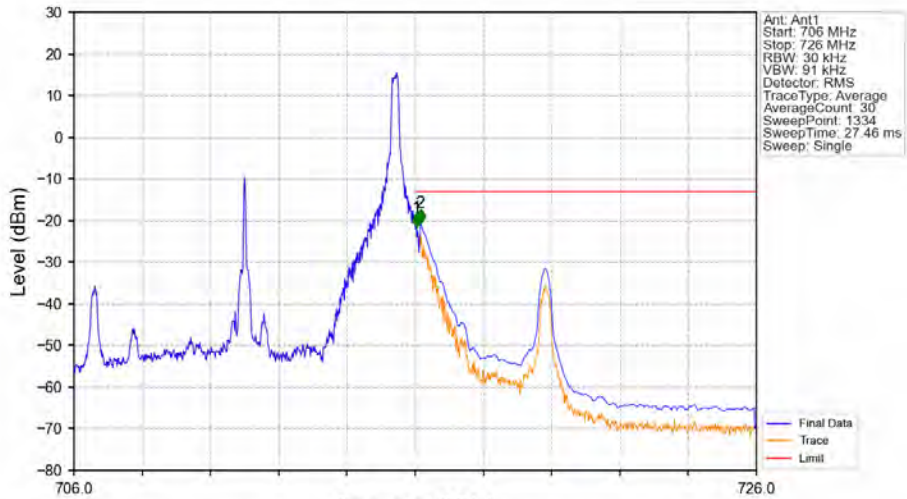
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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

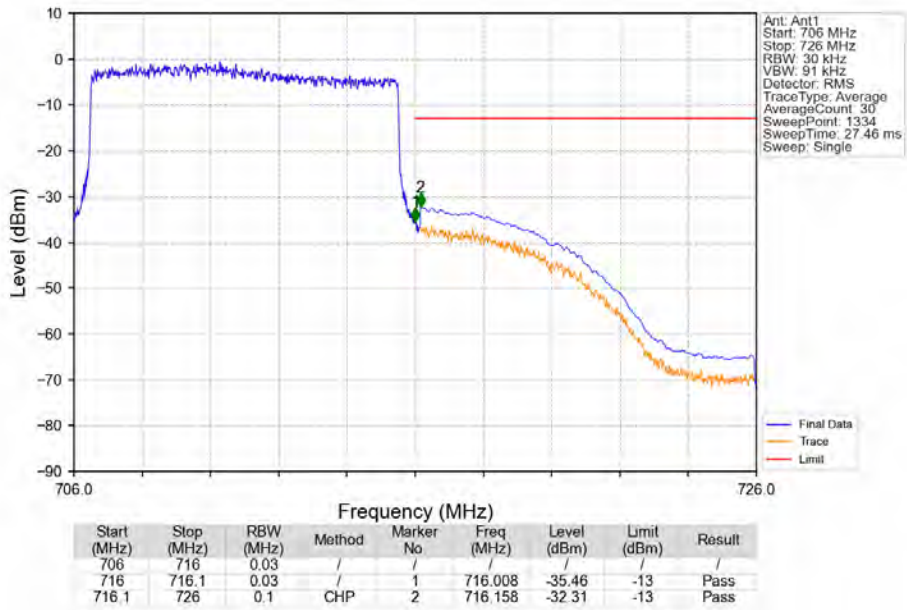


Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV

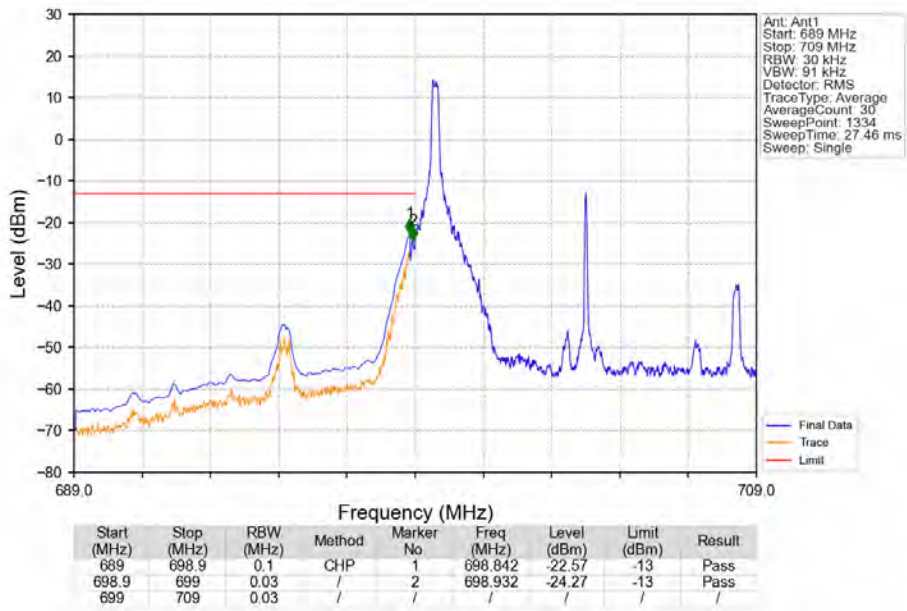


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | 1         | 716.038    | -21.59      | -13         | Pass   |
| 716         | 716.1      | 0.03      | CHP    | 2         | 716.158    | -20.57      | -13         | Pass   |

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

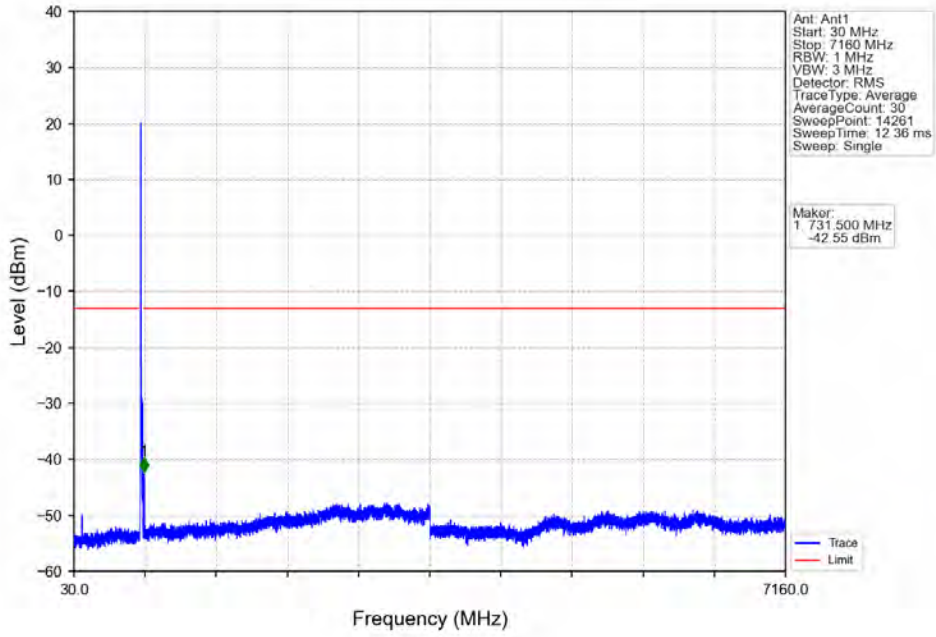


Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV

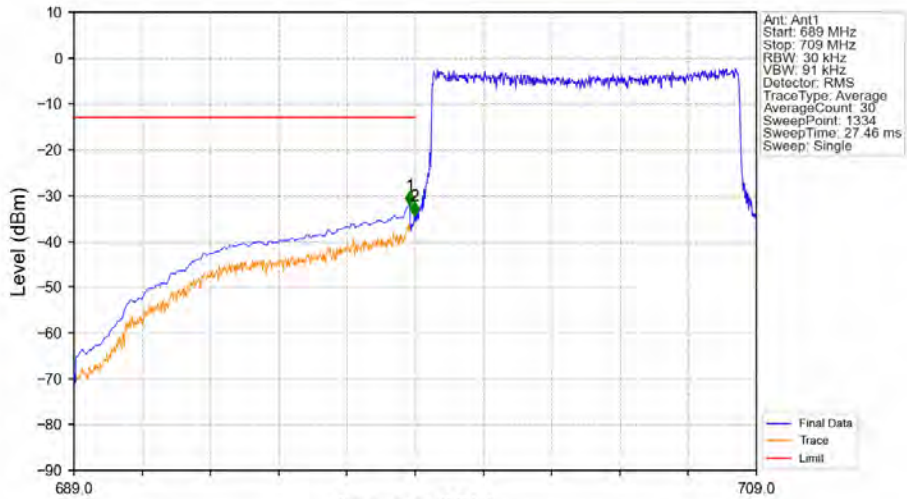




Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV

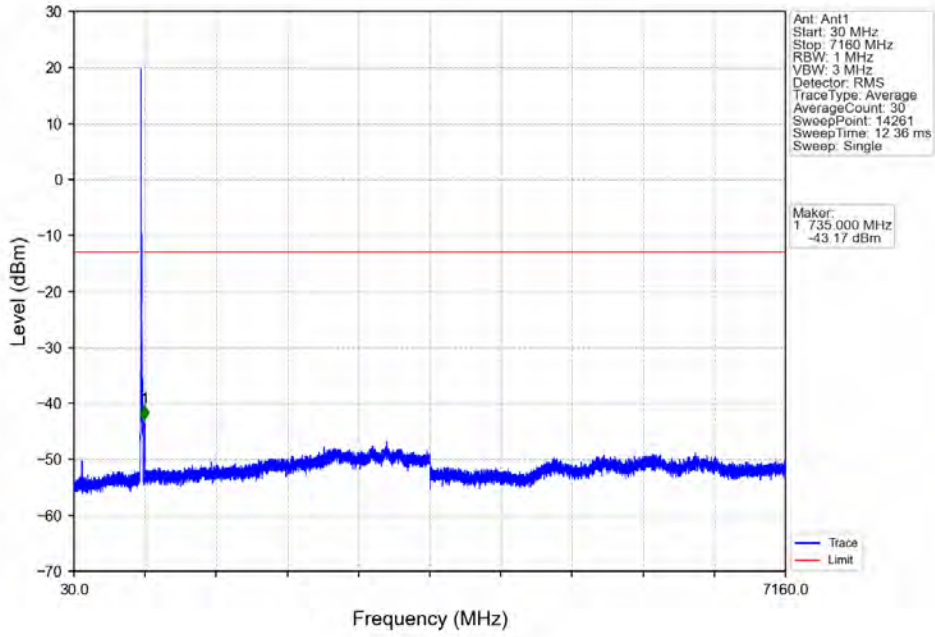


Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV

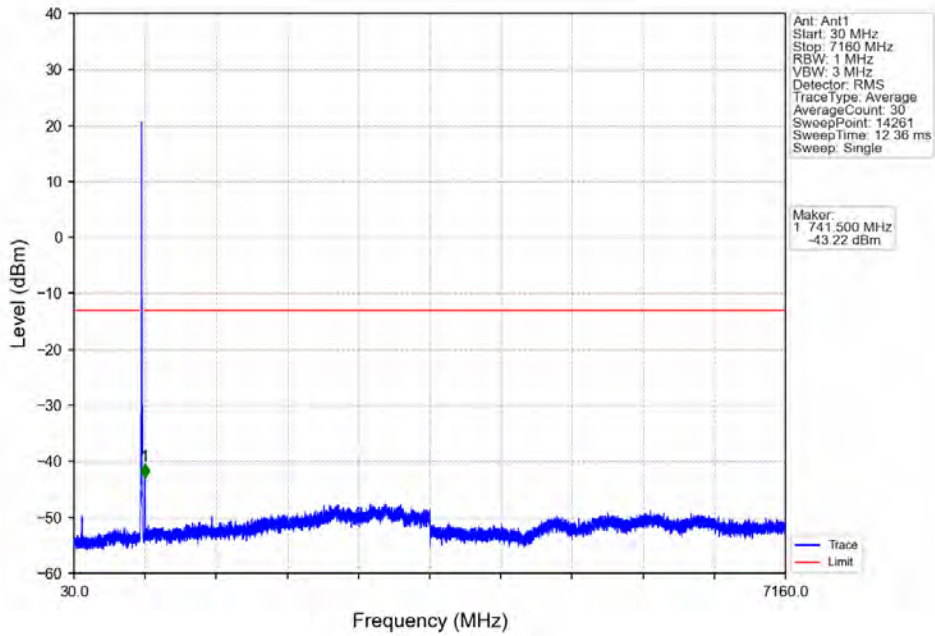


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1         | 698.842    | -32.23      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2         | 698.977    | -34.41      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /         | /          | /           | /           | /      |

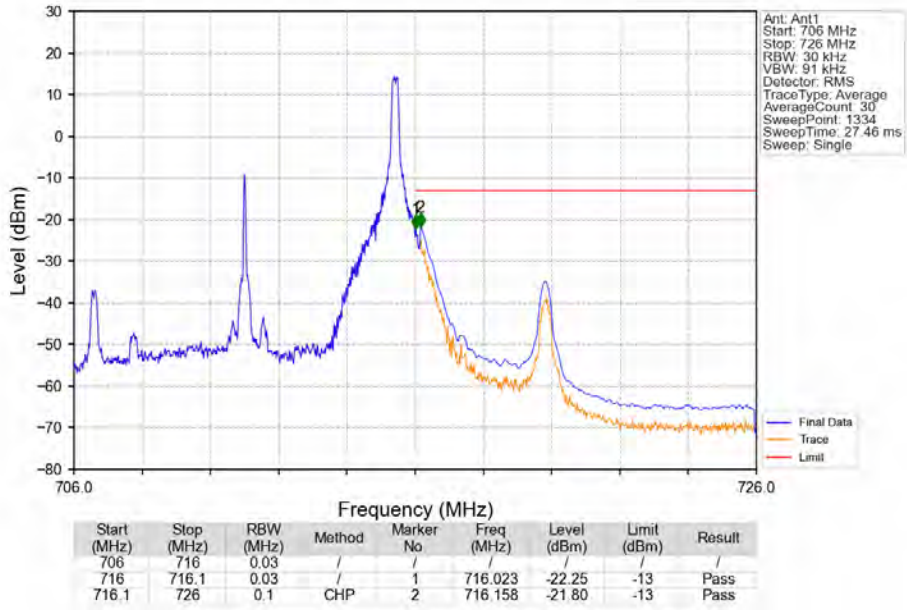
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



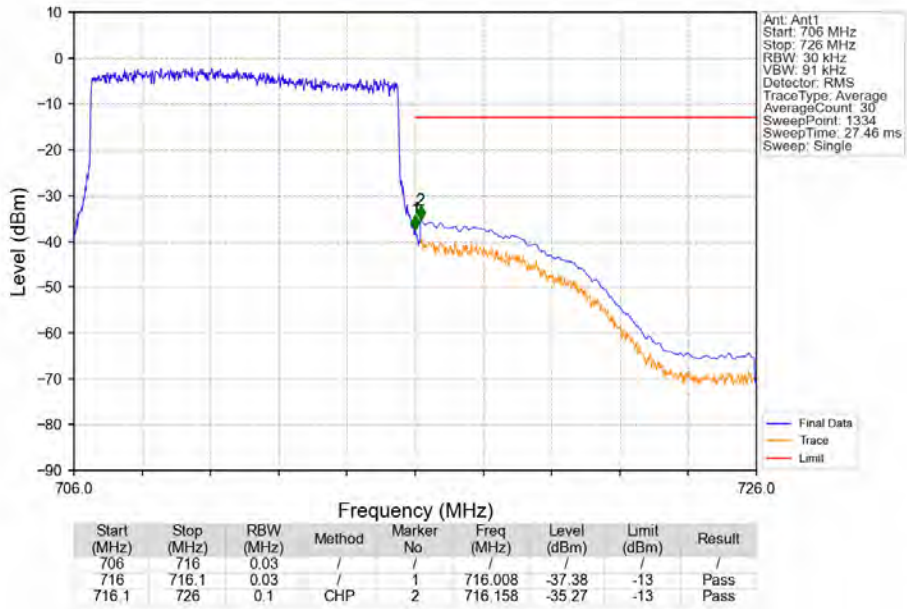
Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV



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



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



## 7. Form731

### 7.1 Form731\_Power

#### 7.1.1 Test Result

| Band | BW  | Lower Freq | High Freq | MAX Power (W) | Value  | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|-----|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 12   | 1.4 | 699.7      | 715.3     | 0.1603        | 0.0131 | ppm    | 1M12G7D             | 27H        | 22.05           |
| 12   | 1.4 | 699.7      | 715.3     | 0.1297        | 0.0145 | ppm    | 1M11W7D             | 27H        | 21.13           |
| 12   | 3   | 700.5      | 714.5     | 0.1611        | 0.0139 | ppm    | 2M73G7D             | 27H        | 22.07           |
| 12   | 3   | 700.5      | 714.5     | 0.1400        | 0.0162 | ppm    | 2M73W7D             | 27H        | 21.46           |
| 12   | 5   | 701.5      | 713.5     | 0.1581        | 0.0142 | ppm    | 4M61G7D             | 27H        | 21.99           |
| 12   | 5   | 701.5      | 713.5     | 0.1274        | 0.0142 | ppm    | 4M58W7D             | 27H        | 21.05           |
| 12   | 10  | 704        | 711       | 0.1626        | 0.0144 | ppm    | 9M19G7D             | 27H        | 22.11           |
| 12   | 10  | 704        | 711       | 0.1409        | 0.0119 | ppm    | 9M14W7D             | 27H        | 21.49           |

## 7.2 Form731\_ERP

### 7.2.1 Test Result

| Band | BW  | Lower Freq | High Freq | MAX Power (W) | Value  | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|-----|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 12   | 1.4 | 699.7      | 715.3     | 0.0668        | 0.0131 | ppm    | 1M12G7D             | 27H        | 18.25           |
| 12   | 1.4 | 699.7      | 715.3     | 0.0541        | 0.0145 | ppm    | 1M11W7D             | 27H        | 17.33           |
| 12   | 3   | 700.5      | 714.5     | 0.0671        | 0.0139 | ppm    | 2M73G7D             | 27H        | 18.27           |
| 12   | 3   | 700.5      | 714.5     | 0.0583        | 0.0162 | ppm    | 2M73W7D             | 27H        | 17.66           |
| 12   | 5   | 701.5      | 713.5     | 0.0659        | 0.0142 | ppm    | 4M61G7D             | 27H        | 18.19           |
| 12   | 5   | 701.5      | 713.5     | 0.0531        | 0.0142 | ppm    | 4M58W7D             | 27H        | 17.25           |
| 12   | 10  | 704        | 711       | 0.0678        | 0.0144 | ppm    | 9M19G7D             | 27H        | 18.31           |
| 12   | 10  | 704        | 711       | 0.0587        | 0.0119 | ppm    | 9M14W7D             | 27H        | 17.69           |